

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND  
PUBLIC FACILITIES  
SOUTHEAST REGION

JUNEAU, ALASKA

**JNU-LOOP RD/VALLEY  
BLVD/MENDENHALL BLVD  
SIGNAL**

**HRO-0966(24)  
PROJECT NO. 68583**

**INDEX OF SHEETS**

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T1-T4	TRAFFIC CONTROL PLANS
R1	RIGHT OF WAY PLANS

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

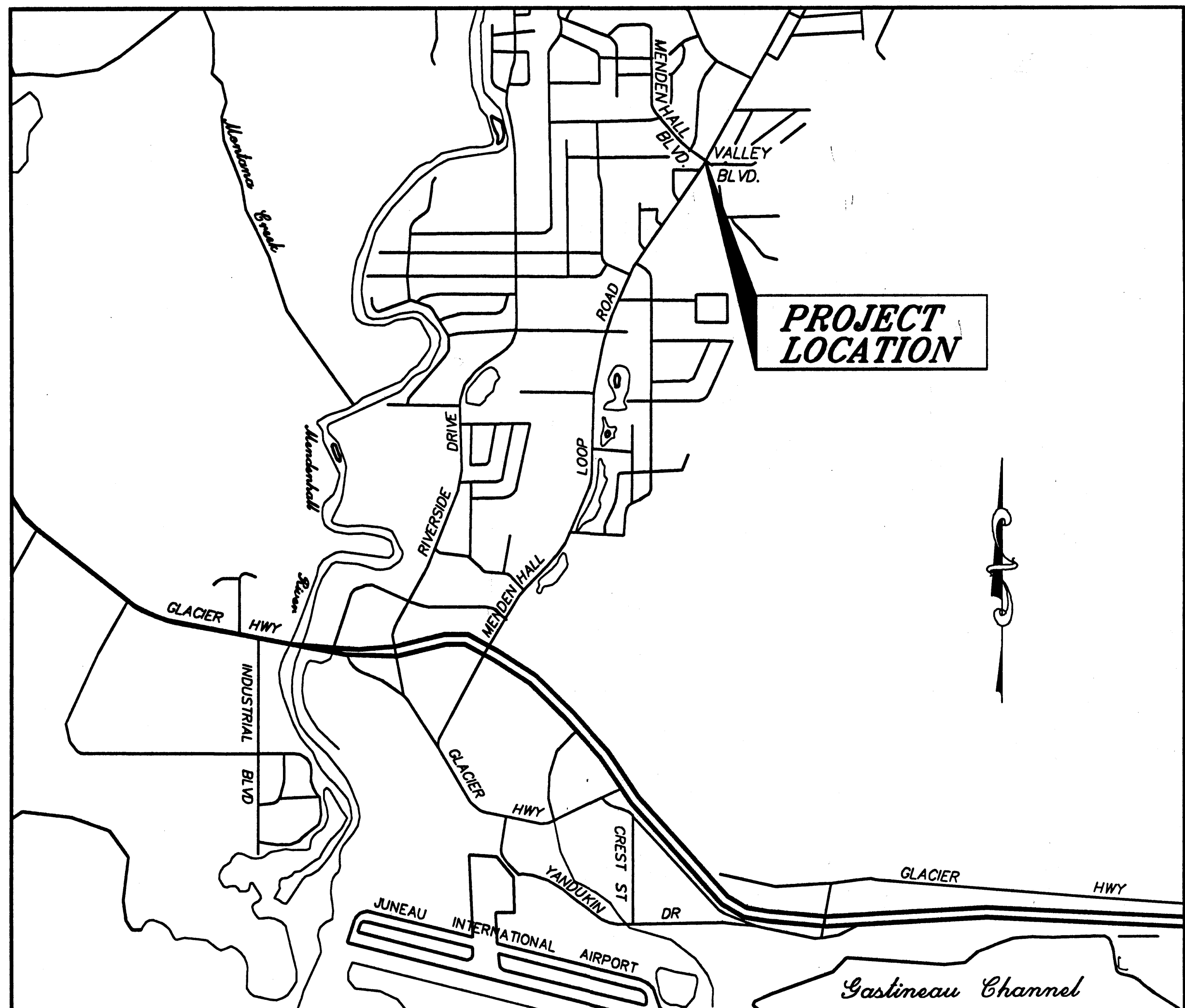
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L-23.01, S-00.00, S-05.01, S-20.00, S-21.02, S-30.03, T-20.01,  
T-21.02, T-22.03, T-34.01, T-52.15, U-03.00.

**DESIGN DESIGNATION**

	MENDENHALL LOOP ROAD
ADT 2004	9,380
ADT 2024	11,440
DHV 12% (2024)	1,350
% T	3%

**PROJECT SUMMARY**

	MENDENHALL LOOP ROAD
LENGTH OF PROJECT	0.08 MI.
LENGTH OF GRADING	0.08 MI.
LENGTH OF PAVING	0.05 MI.
WIDTH OF PAVING	0 TO 11 FT.



**VICINITY MAP**

*AS-BUILT PLANS*

CONTRACTOR: CHATHAM ELECTRIC, INC  
PROJECT ENGINEER: JOHN HOLLATZ  
BEGIN DATE: MARCH 8, 2004  
END DATE: JUNE 1, 2004  
TOTAL CONTRACT AMOUNT: \$611,682.12

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
Proj. Engr. *[Signature]* Date 9/17/03

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND  
PUBLIC FACILITIES  
SOUTHEAST REGION

APPROVED *[Signature]* Date 7/29/03  
Patrick J. Kemp, P.E.  
Regional Preconstruction Engineer

APPROVED *[Signature]* Date 7/27/03  
Gary Pavlen  
Regional S.E. Director

PROJECT NUMBER: <b>68583</b>	ENGINEER'S SEAL 
DATE: <b>2003</b>	
SHEET <b>A1</b> OF <b>46</b>	

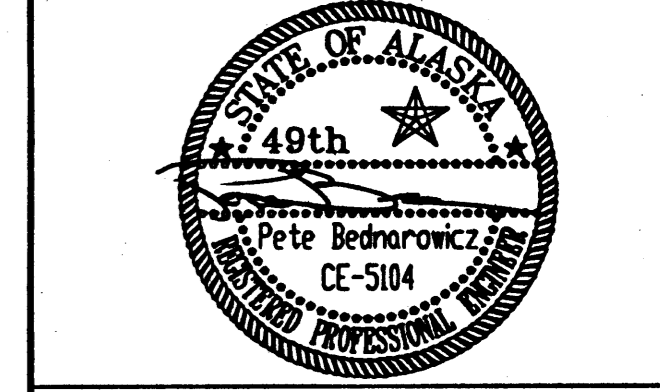
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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

**JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Proj. Eng. *[Signature]* Date *7/1/03*

DESIGNED BY: M. LUKSHIN

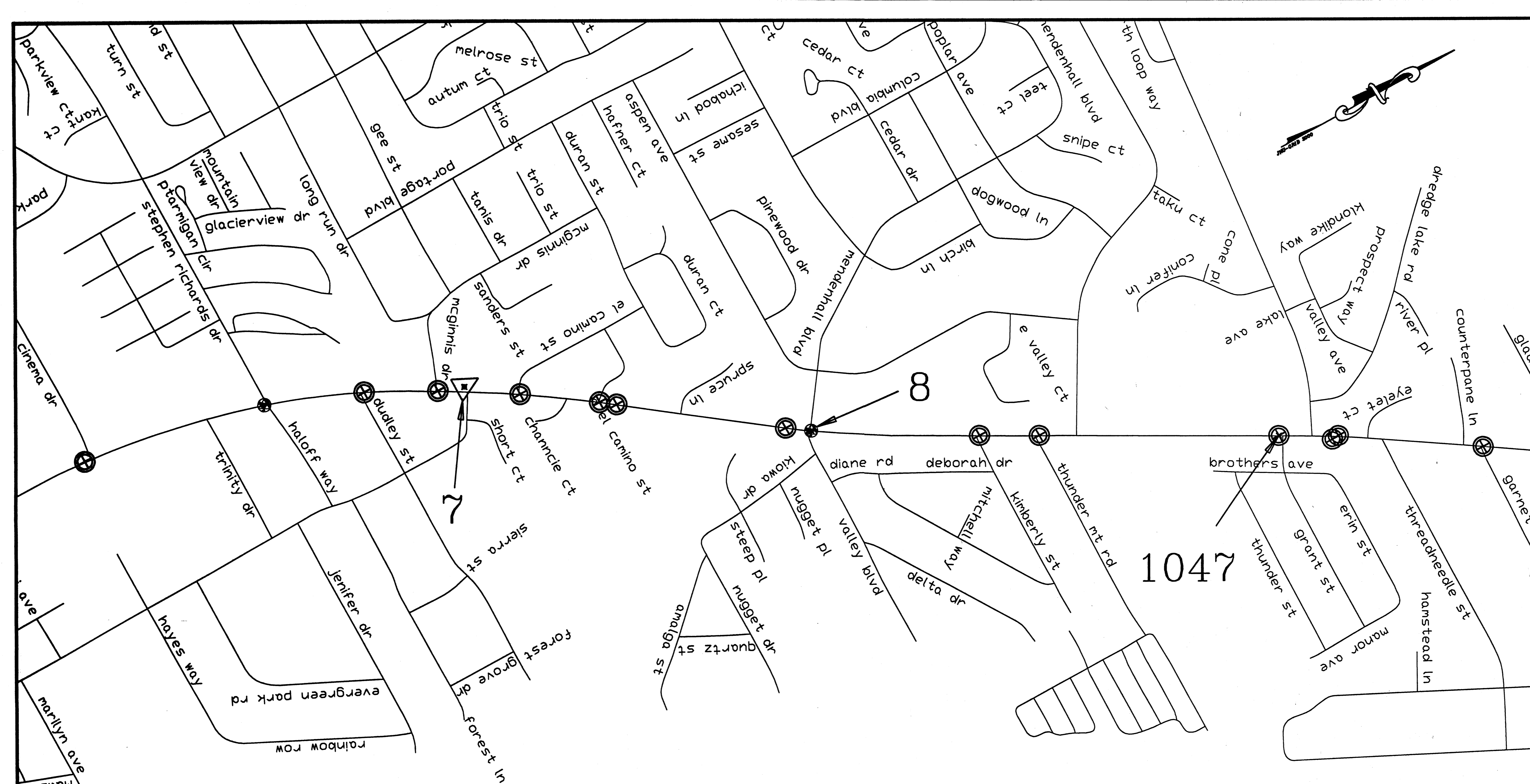


CHECKED BY: K. MATTSON  
 DRAWN BY: D. STEVENS

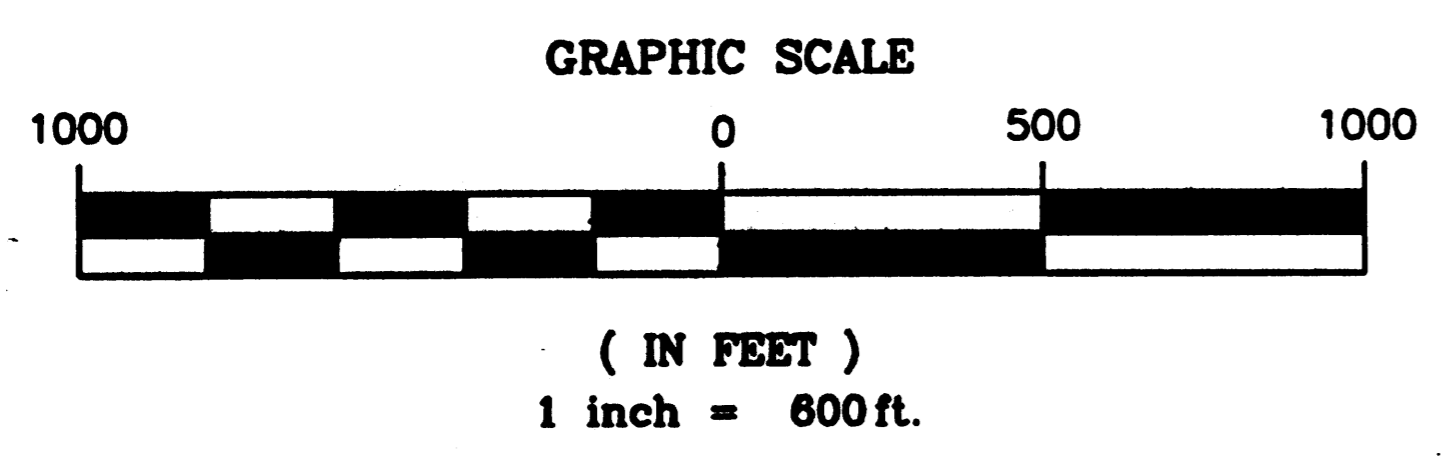
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 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

**JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583**

CONTROL LAYOUT	
PROJECT DESIGNATION NUMBER	
<b>HRO-0966(24) / 68583</b>	
STATE	YEAR
<b>ALASKA</b>	<b>2003</b>
SHEET NUMBER	TOTAL SHEETS
<b>A2</b>	<b>46</b>



POINT	NORTHING	EASTING	ELEV	DESCRIPTION
7	511109.8298	499157.6676	45.94	PK/SET_7
8	512690.8396	500320.8461	50.50	GPS_CL_MON_0" 106+96.31, 0.06' RT.
1047	514975.7572	501625.3873		CL_MON_DOH_LOOP&GRANT



**HORIZONTAL CONTROL**

HORIZONTAL CONTROL FOR THIS PROJECT IS BASED ON THE DOT/PF 2000 JUNEAU GRID  
 THE DOT/PF JUNEAU GRID-2000 SYSTEM IS A LOCAL GROUND COORDINATE SYSTEM BASED AT USC&GS FIRST ORDER CONTROL STATION EDDIE. IT RELATES TO AKSPC ZONE 1 NAD83 THROUGH THE FOLLOWING PARAMETERS:  
 ZONE = NAD83 AKSPC ZONE 1  
 GRID SCALE = 0.999928875  
 CONVERGENCE = -0'45'27.26"  
 TRANSLATION ABOUT USC&GS POINT EDDIE AS FOLLOWS:  
 AKSPC NORTHING = 2383469.17310 FT US (726482.8570M)  
 AKSPC EASTING = 2512570.06318 FT US (765832.8870M)  
 LOCAL NORTHING = 500000.0000 FT US (152400.3048M)  
 LOCAL EASTING = 500000.0000 FT US (152400.3048M)

COORDINATES FOR THIS PROJECT ESTABLISHED WITH SKI PRO STATIC GPS PROCESSING AND STARNET LEAST SQUARES ADJUSTMENT.

THE PROJECT SPECIFIC BASIS OF HORIZONTAL CONTROL IS THE LINE BETWEEN POINT 8 AND POINT 7 HAVING A JUNEAU GRID BEARING OF S 36°20'33"W.

**VERTICAL CONTROL**

THE VERTICAL DATUM FOR JNU GRID-2000 IS MLLW GASTINEAU CHANNEL TIDAL DATUM BASED ON THIRD ORDER LEVELS AND SUPPLEMENTED WITH GEOID '99 MODELED HEIGHTS. LEVELS WERE RUN FROM THE NOS BENCHMARK 2210C LOCATED DOWNTOWN, HAVING A PUBLISHED ELEVATION OF 29.40 FEET ABOVE MLLW TO USC&GS FIRST ORDER HORIZONTAL CONTROL STATION EDDIE AND ON TO AUKIE BAY. THE TIDAL EPOCH IS 1980-1978, BUT THIS EPOCH HAS BEEN UPDATED WITH A 5 YEAR OBSERVATION PERIOD FROM JAN '94 TO DEC '98 PUBLISHED NOV '99. EDDIE HAS AN OBSERVED ELEVATION OF 26.52FT ABOVE MLLW. ELLIPSOID ELEVATION OF EDDIE MODIFIED TO 40.64FT TO ADJUST GEOID'99 TO OUR LOCAL TIDAL DATUM OF MLLW. GEOID'99 MODELED HEIGHTS HAVE PROVEN BETTER THAN 0.1' ABSOLUTE ACCURACY COMPARED WITH LEVELED VALUES IN THE JUNEAU AREA.

THE PROJECT SPECIFIC BASIS OF VERTICAL CONTROL IS POINT 8 HAVING AN ACCEPTED ELEVATION OF 50.50'.

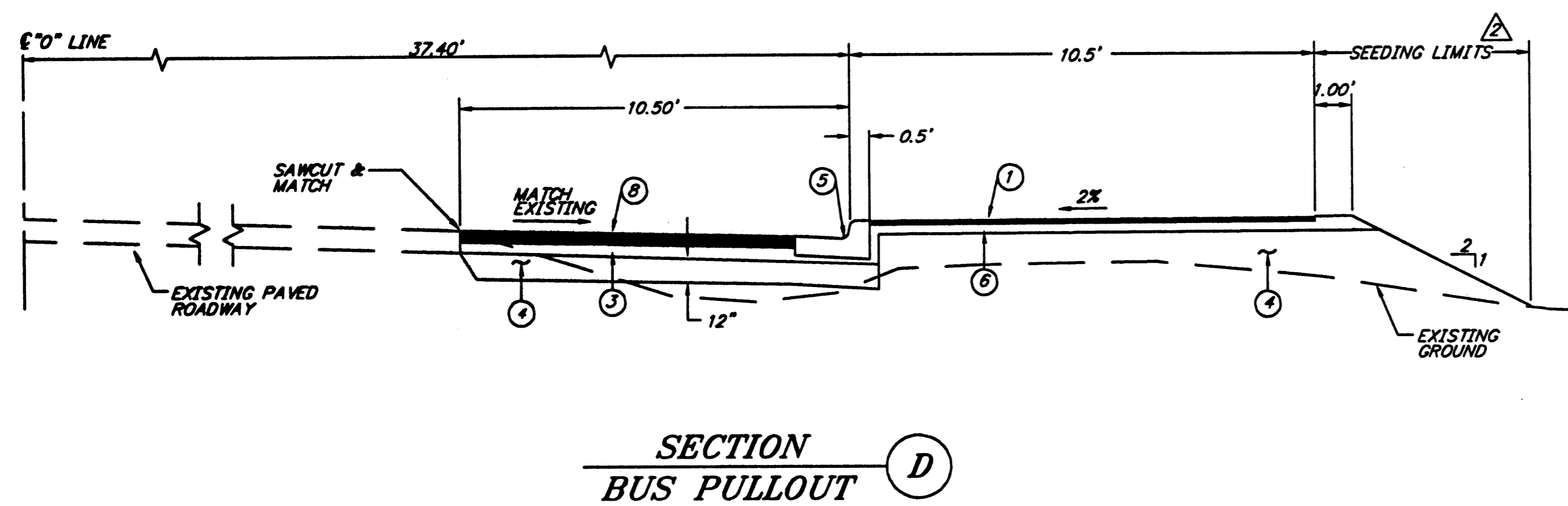
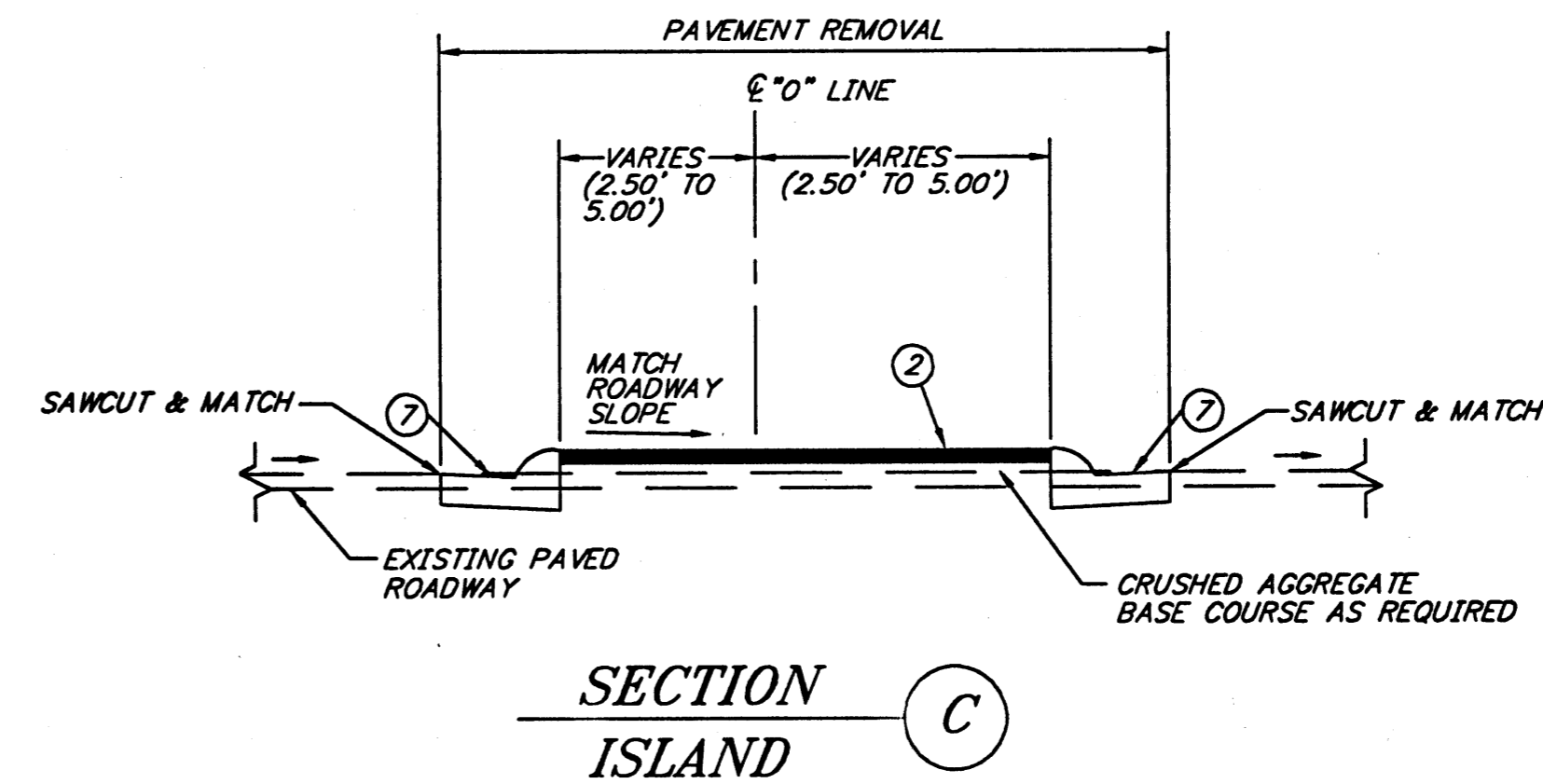
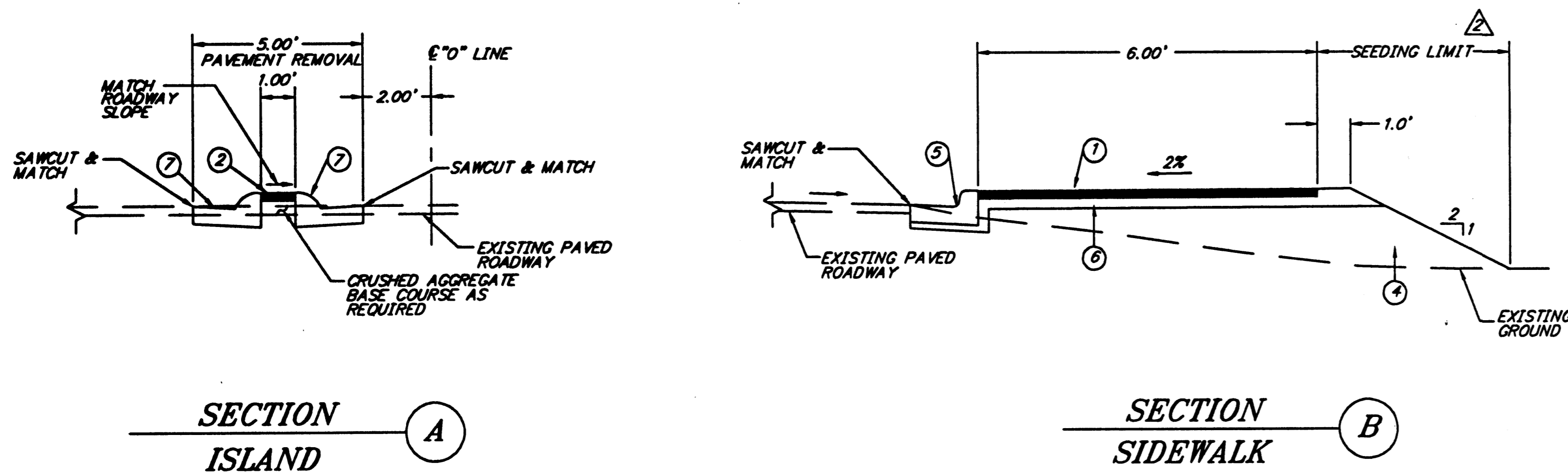
CONTROL LAYOUT

ADDENDUM NUMBER

ATTACHMENT NUMBER

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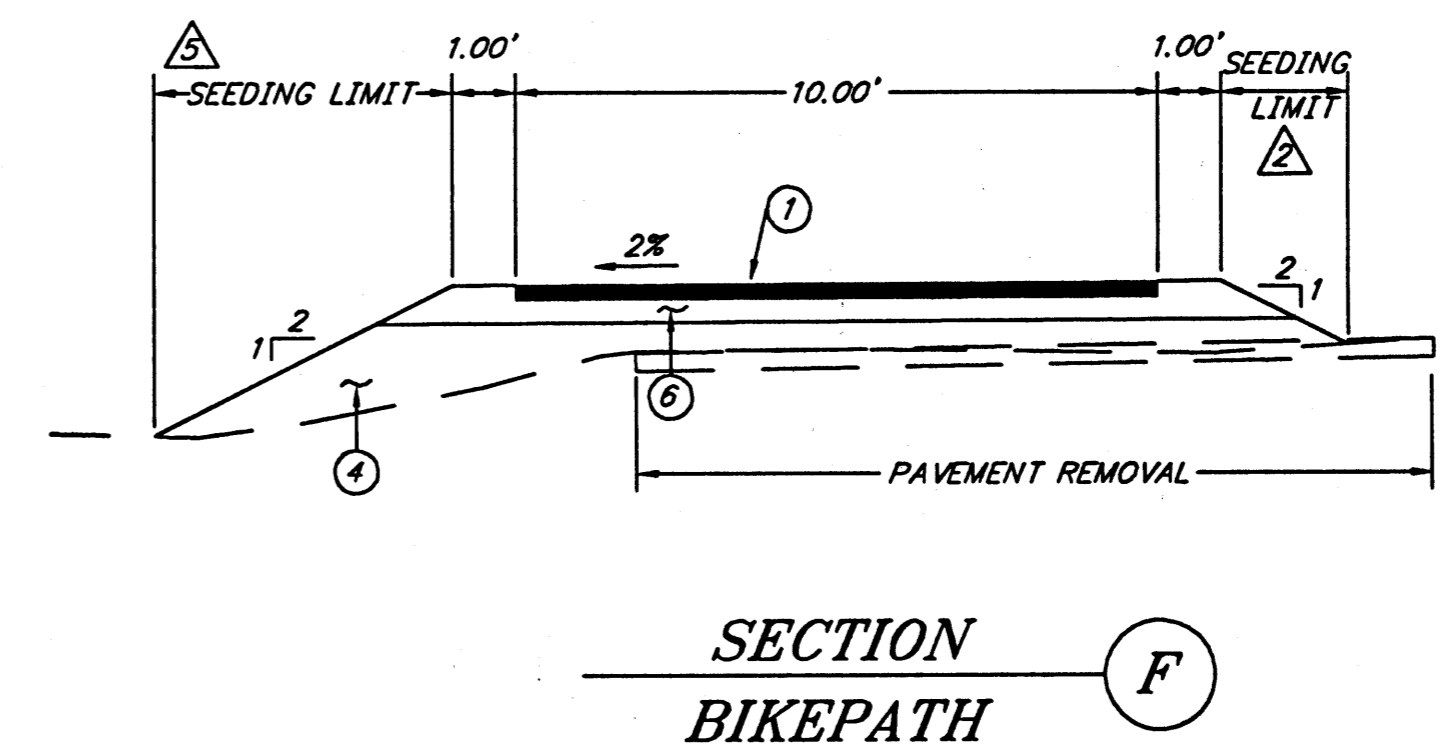
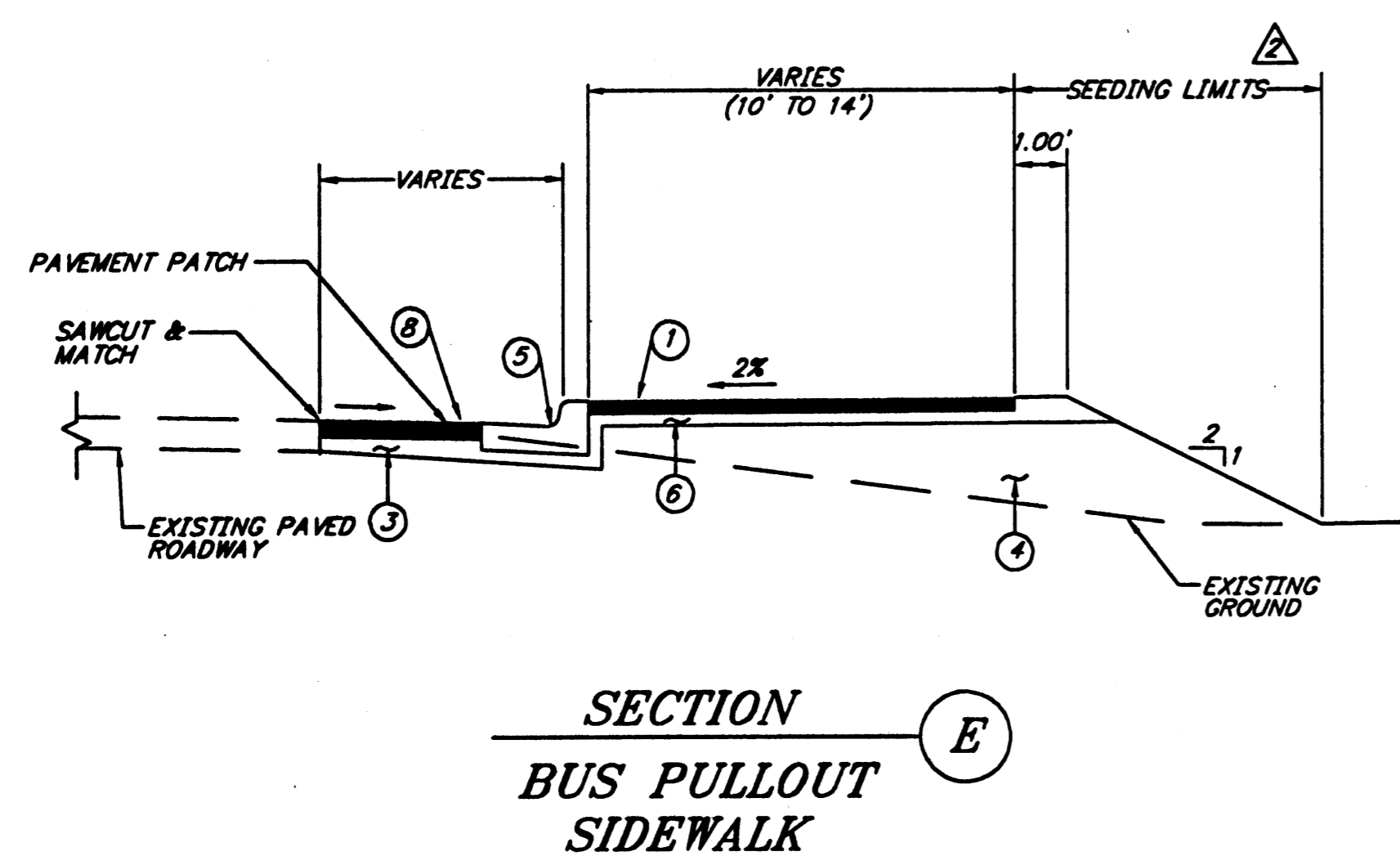
No.	DATE	DESCRIPTION



**LEGEND**

- ① 1 1/2" ASPHALT CONCRETE, TYPE A
- ② CLASS "A" CONCRETE
- ③ 6" CRUSHED AGGREGATE BASE COURSE
- ④ BORROW, TYPE A
- ⑤ CONCRETE CURB & GUTTER, STANDARD
- ⑥ 4" CRUSHED AGGREGATE BASE COURSE
- ⑦ CONCRETE CURB & GUTTER, EXPRESSWAY
- ⑧ 4" ASPHALT CONCRETE, TYPE A

② 2" OF TOPSOIL SHALL BE APPLIED TO SLOPE SURFACE PRIOR TO SEEDING.



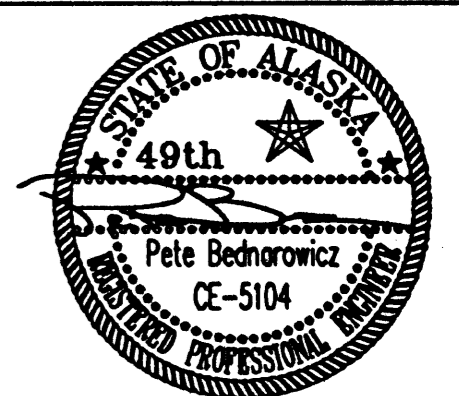
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

TYPICAL SECTIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Proj. Engr. *[Signature]* Date 9/10/04

DESIGNED BY: P. BEDNAROWICZ



CHECKED BY: Pete Bednarowicz

DRAWN BY: GDM Graphics

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
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 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

JUNEAU LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

TYPICAL SECTIONS

PROJECT DESIGNATION NUMBER

HRO-0966(24) / 68583

STATE YEAR

ALASKA 2003

SHEET NUMBER TOTAL SHEETS

B1 46

ADDENDUM NUMBER

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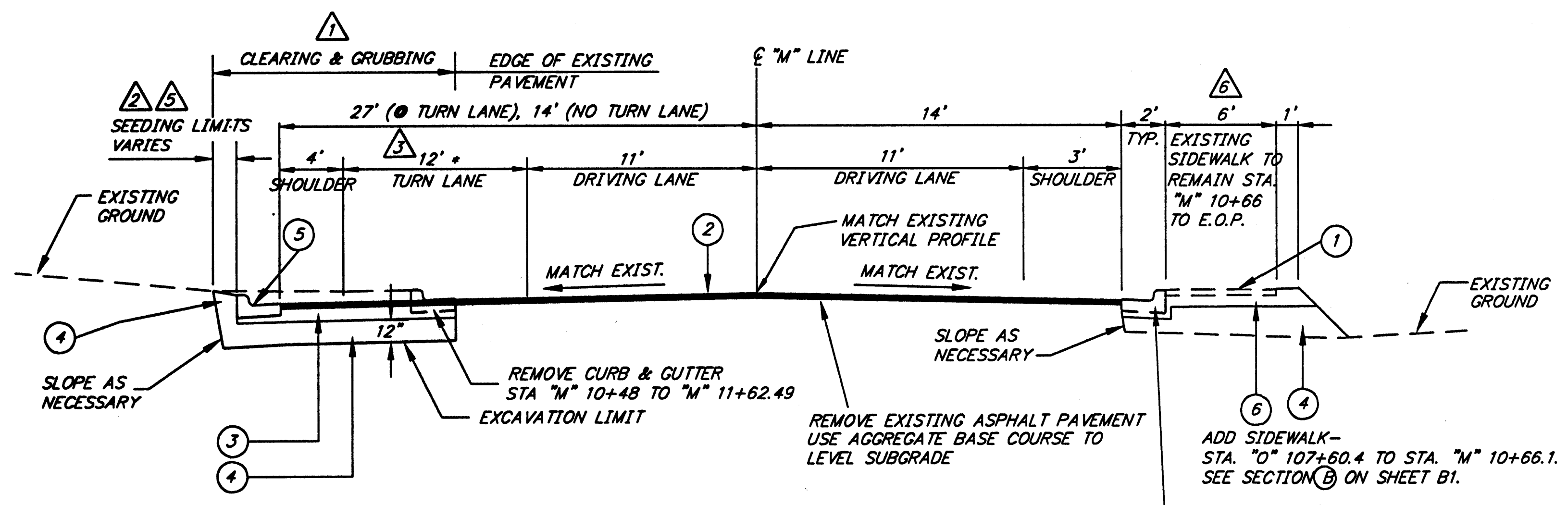
STATE	YEAR
ALASKA	2003

SHEET NUMBER	TOTAL SHEETS
B2	46

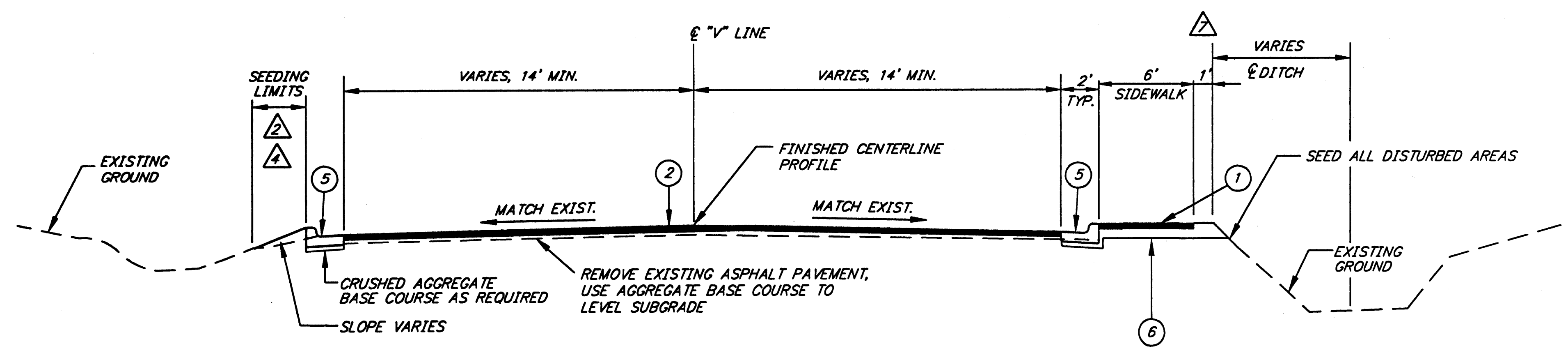
### LEGEND

- ① 1 1/2" ASPHALT CONCRETE, TYPE A
- ② 3" ASPHALT CONCRETE, TYPE A
- ③ 6" AGGREGATE BASE COURSE
- ④ BORROW, TYPE A
- ⑤ CONCRETE CURB & GUTTER, STANDARD
- ⑥ 4" CRUSHED AGGREGATE BASE COURSE

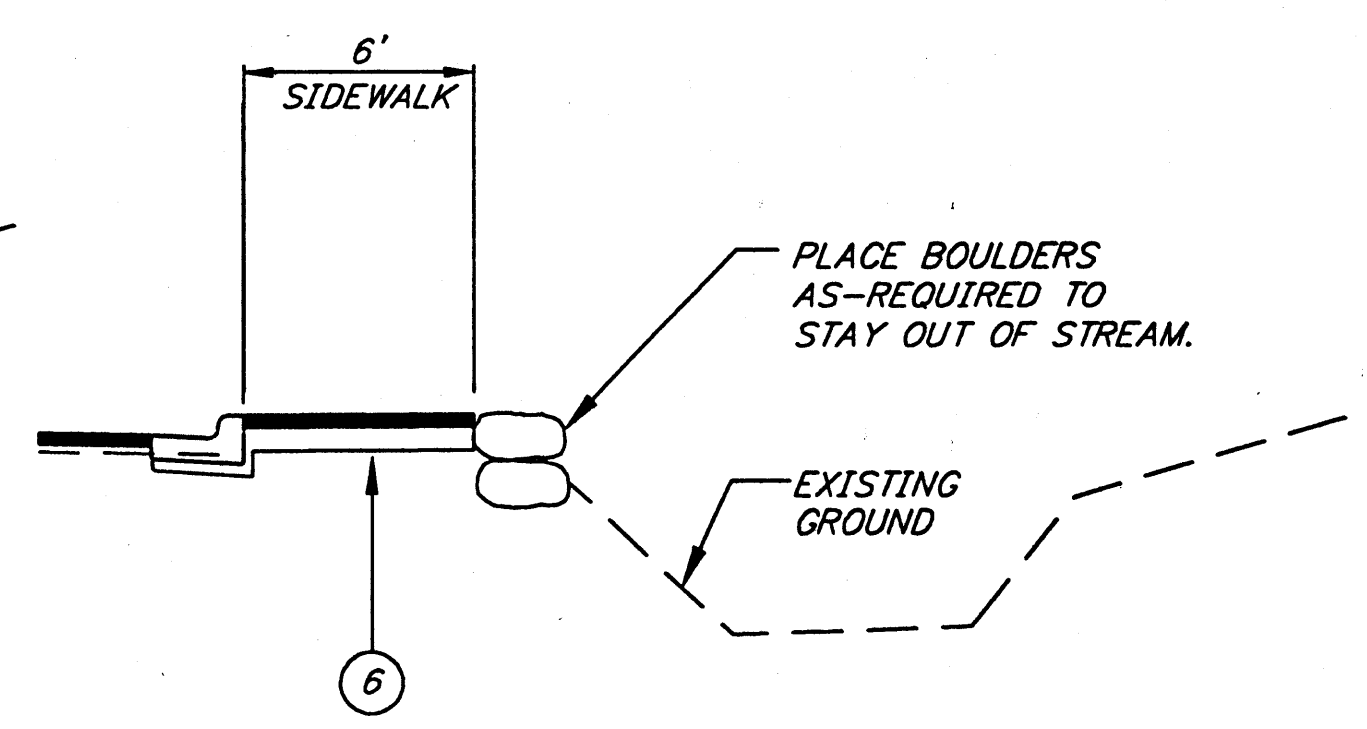
- ⚠️ VEGETATION BEYOND THE EDGE OF PAVEMENT IS GRASS.
- ⚠️ 2" OF TOPSOIL SHALL BE APPLIED TO SLOPE SURFACE PRIOR TO SEEDING.
- ⚠️ 3' SHOULDER AND NO TURN LANE AT "M" EOP.
- ⚠️ USE 4" AGGREGATE BASE COURSE TO LEVEL GRADE AT DRIVEWAY ("V" 11+16 TO "V" EOP).
- ⚠️ REGRADE DRIVEWAY ("M" 11+24 TO "M" 11+50) UP TO PROPERTY LINE. USE 2" ASPHALT CONCRETE PAVEMENT FOR DRIVEWAY. USE DEPRESSED CURB & GUTTER AT DRIVEWAY.
- ⚠️ INSTALL CURB, GUTTER & SIDEWALK STA "O" 107+60.4 TO "M" 10+66.1
- ⚠️ USE SIDEWALK BOULDER DETAIL AT STA "V" 10+82 TO "V" 11+11



**TYPICAL SECTION - MENDENHALL BLVD.**  
**STA. "M" 10+26 TO STA. "M" 11+65**



**TYPICAL SECTION - VALLEY BLVD**  
**STA. "V" 10+26 TO STA. "V" 11+20**



**SIDEWALK BOULDER DETAIL**  
**STA. "V" 10+82 TO STA. "V" 11+11**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

## ESTIMATE OF QUANTITIES

ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY	FINAL QTY
201 (3B)	Clearing & Grubbing	Lump Sum	All Req'd	
202 (1)	Removal of Structures and Obstructions	Lump Sum	All Req'd	
202 (2)	Removal of Pavement	Lump Sum	All Req'd	
203 (3)	Unclassified Excavation	Lump Sum	All Req'd	
203 (6)	Borrow, Type "A"	Ton	<del>1000</del>	375.0
301 (1)	Aggregate Base Course, Grading D-1	Ton	<del>300</del>	582.26
401 (1)	Asphalt Concrete, Type II, Class A	Ton	<del>180</del>	393.10
401 (2)	Asphalt Cement, PG 58-22	Ton	<del>10.8</del>	21.23
514 (1)	Bus Stop Shelter	Lump Sum	All Req'd	
603 (1-12)	12 Inch CSP	Linear Foot	<del>428</del>	477.5
603 (1-24)	24 Inch CSP	Linear Foot	<del>91</del>	112.0
603 (3-12)	End Section for 12 Inch CSP	Each	<del>3</del>	1
603 (3-24)	End Section for 24 Inch CSP	Each	<del>2</del>	1
603(22)	Curb Drain	Each	6	6
604 (1)	Storm Sewer Manhole	Each	1	1
604 (4)	Adjust Existing Manhole	Each	2	2
604 (5A)	Inlet, Type "A"	Each	<del>9</del>	10
604 (8)	Manhole Oil/Water Separator	Each	2	2
607 (7)	Wood Fence	Linear Foot	126	197.5
608 (3)	Asphalt Sidewalk	Square Yard	<del>1025</del>	877.80
608 (6)	Curb Ramp	Each	4	
609 (2)	Standard Curb and Gutter, Type 1	Linear Foot	<del>694</del>	730.0' + 140.0' (Change Order #1)
609 (7)	Expressway Curb And Gutter, Type 1	Linear Foot	<del>621</del>	678.0
615 (1)	Standard Sign	Square Foot	121.22	121.22
615 (5)	Delineator, Flexible	Each	14	
627 (6)	Fire Hydrant Relocation	Each	1	1
627(10)	Adjustment of Valve Box	Each	<del>4</del>	3
639 (1)	Residence Driveways	Each	1	1
640 (1)	Mobilization and Demobilization	Lump Sum	All Req'd	
641 (1)	Erosion and Pollution Control Administration		All Req'd	
641 (2)	Erosion and Pollution Control	Contingent Sum	All Req'd	
641 (5)	Silt Fence	Linear Foot	<del>150</del>	122.0
641 (7)	Inlet Sediment Trap	Each	<del>5</del>	Not Used
642 (1)	Construction Surveying	Lump Sum	All Req'd	
642 (3)	Three Person Survey Party	Hour	<del>5</del>	Not Used
643 (2)	Traffic Maintenance	Lump Sum	All Req'd	
643 (3)	Permanent Construction Signs	Lump Sum	All Req'd	
643(15)	Flagging	Contingent Sum	All Req'd	
643(25)	Traffic Control	Contingent Sum	All Req'd	
660 (1)	Traffic Signal System Complete	Lump Sum	All Req'd	
660 (3)	Highway Lighting System Complete	Lump Sum	All Req'd	
660(14)	Uninterruptible Power System Complete	Lump Sum	All Req'd	
660(15)	Signal Cabinet Shop Testing	Contingent Sum	All Req'd	
661 (1)	Load Center, Type 1	Each	1	1
670 (8)	Recessed Pavement Marker	Each	<del>28</del>	2.5
670(10)	Methyl Methacrylate Pavement Markings	Lump Sum	All Req'd	

642(13) ADDITIONAL CONSTRUCTION SURVEYING (CHANGE ORDER No. 1) LUMP SUM ALL REQ'D

**General Notes:**

All ground disturbed by new construction shall be reseeded or resod.

Basis Of Estimate		
ITEM	PAY ITEM	ESTIMATING FACTOR
203 (3)	Unclassified Excavation	200 C.Y.
203 (6)	Borrow, Type "A"	1.80 Tons/C.Y.
301 (1)	Aggregate Base Course, Grading D-1	1.96 Tons/C.Y.
401 (1)	Asphalt Concrete, Type II, Class A	117lb./S.Y.-In depth
401 (2)	Asphalt Cement, PG58-22	6% of 401 (1)

JNU-LOOP RD/VALLEY  
 BLVD/MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583  
 ESTIMATE OF QUANTITIES

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Proj. Engr. *[Signature]* Date 9/17/04

DESIGNED BY: Russ Kraemer



CHECKED BY: Pete Bednarowicz

DRAWN BY: Dave Stevens

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
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JNU-LOOP RD/VALLEY  
 BLVD/MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

ESTIMATE OF QUANTITIES

PROJECT DESIGNATION NUMBER

**HRO-0966(24)-(68583)**

STATE YEAR

**ALASKA 2003**

SHEET NUMBER TOTAL SHEETS

**C1 46**

### GENERAL SIGNING NOTES

- SIGN LOCATIONS ARE APPROXIMATE ONLY AND ARE SUBJECT TO MINOR REVISIONS.
- SEE STD. DWG. S-30.03 FOR POST SLEEVE TYPE SOIL EMBEDMENT.
- ALL SIGN POSTS SHALL BE PERFORATED GALVANIZED SQUARE STEEL POSTS.
- ALL SIGNS SHALL BE .125" THICK EXCEPT AS NOTED IN THE STANDARD SIGN SCHEDULE.
- ALL NEW SIGNS SHALL BE UNFRAMED EXCEPT AS NOTED IN THE STANDARD SIGN SCHEDULE.
- ALL D3-1 STREET SIGNS HAVE THE LEGEND ON BOTH SIDES, AND BE THE BLADE EXTRUDED TYPE.
- SIGNS SHALL BE INSTALLED SO THAT THE BOTTOM OF THE SIGN PANEL IS 7" ABOVE THE ROADWAY SURFACE.
- ALL EXISTING SIGNS TO BE REMOVED OR REPLACED SHALL BE DISMANTLED BY THE CONTRACTOR AND STOCKPILED AT THE STATE OF ALASKA D.O.T/P.F. MAINTENANCE STATION AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO 615(1).
- PRIOR TO INSTALLING POSTS, THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING AND NEW UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO PIPELINES, INTERCONNECT CABLES, SIGNAL SYSTEMS, LIGHTING SYSTEMS, STORM AND SANITARY SEWERS, WATER SYSTEMS AND TELEPHONE AND ELECTRICAL CABLES. ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON THE PLANS.
- OBTAIN SIGN FROM CAPITAL CITY TRANSIT, 789-6903.

### STANDARD SIGNING SCHEDULE SEE SHEET L1

No.	STATION	OFFSET		TYPE	FACING TRAFFIC	LEGEND	SIZE		AREA S.F.	# OF POSTS	POST SIZE	POST TYPE	REMARKS
		LT.	RT.				WD.	HT.					
1	POLE 1			R10-100	N.B.	YIELD ON GREEN BALL	30"	36"	7.50				MOUNT ON MAST ARM
2	POLE 1			D3-2B	N.B.	MENDENHALL BLVD. →	108"	30"	22.50				MOUNT ON MAST ARM
3	POLE 1			R10-3B	S.B. & W.B.	MEANING OF PED. SIGNALS	9"	16"	1.00				AFFIX DECAL TO POLE
4	POLE 1			R10-4B	S.B.	PUSH BUTTON FOR CROSSING	5"	8"	0.28				ATTACH TO PED BUTTON ASSEMBLY
5	POLE 1			R10-4B	W.B.	PUSH BUTTON FOR CROSSING	5"	8"	0.28				ATTACH TO PED BUTTON ASSEMBLY
6	POLE 2			R10-12	E.B.	LEFT YIELD ON GREEN BALL	30"	36"	7.50				MOUNT ON MAST ARM
7	POLE 2			D3-1B	E.B.	MENDENHALL LOOP ROAD	96"	18"	12.00				MOUNT ON MAST ARM
8	POLE 2			R10-3B	N.B. & W.B.	MEANING OF PED. SIGNALS	9"	16"	1.00				AFFIX DECAL TO POLE
9	POLE 2			R10-4B	N.B.	PUSH BUTTON FOR CROSSING	5"	8"	0.28				ATTACH TO PED BUTTON ASSEMBLY
10	POLE 2			R10-4B	W.B.	PUSH BUTTON FOR CROSSING	5"	8"	0.28				ATTACH TO PED BUTTON ASSEMBLY
11	POLE 3			R10-100	S.B.	YIELD ON GREEN BALL	30"	36"	7.50				MOUNT ON MAST ARM
12	POLE 3			D3-2B	S.B.	MENDENHALL BLVD. →	108"	30"	22.50				MOUNT ON MAST ARM
13	POLE 3			R10-3B	E.B. & N.B.	MEANING OF PED. SIGNALS	9"	16"	1.00				AFFIX DECAL TO POLE
14	POLE 3			R10-4B	N.B.	PUSH BUTTON FOR CROSSING	5"	8"	0.28				ATTACH TO PED BUTTON ASSEMBLY
15	POLE 3			R10-4B	E.B.	PUSH BUTTON FOR CROSSING	5"	8"	0.28				ATTACH TO PED BUTTON ASSEMBLY
16	POLE 4			R10-12	W.B.	LEFT YIELD ON GREEN BALL	30"	36"	7.50				MOUNT ON MAST ARM
17	POLE 4			D3-1B	W.B.	MENDENHALL LOOP RD.	96"	18"	12.00				MOUNT ON MAST ARM
18	POLE 4			R10-3B	S.B. & E.B.	MEANING OF PED. SIGNALS	9"	16"	1.00				AFFIX DECAL TO POLE
19	POLE 4			R10-4B	S.B.	PUSH BUTTON FOR CROSSING	5"	8"	0.28				ATTACH TO PED BUTTON ASSEMBLY
20	POLE 4			R10-4B	E.B.	PUSH BUTTON FOR CROSSING	5"	8"	0.28				ATTACH TO PED BUTTON ASSEMBLY
21	104+55	40'		S1-1	S.B.	SCHOOL ADVANCE WARNING	36"	36"	9.00	1	2.5	PST	
22	105+50	50'		R7-107	W.B.	NO PARKING BUS STOP	12"	18"	1.50	1	2.5	PST	
23						BUS STOP (CBJ)	-	-	-				OBTAIN SIGN FROM CAPITAL TRANSIT, SEE NOTE 10.
24	108+30	45'		R7-107	W.B.	NO PARKING BUS STOP	12"	18"	1.50	1	2.5	PST	
25						BUS STOP (CBJ)	-	-	-				REMOVE AND RELOCATE EXISTING SIGN
26	108+25		50'	R5-3	N.B.	NO MOTOR VEHICLES	24"	24"	4.00	1	2.5	PST	
27	105+21		39'		N.B.	END CENTER LANE	-	-	-				LEAVE AS IS
28	108+25	X				SCHOOL ADVANCE WARNING	-	-	-				SALVAGE OR REMOVE AND DISPOSE AS DIRECTED
29	106+50		X			YIELD (BIKE)	-	-	-				SALVAGE OR REMOVE AND DISPOSE AS DIRECTED
30	106+60	X				YIELD (BIKE)	-	-	-				SALVAGE OR REMOVE AND DISPOSE AS DIRECTED
31	106+70	X				STOP + STREET NAMES	-	-	-				SALVAGE OR REMOVE AND DISPOSE AS DIRECTED
32	107+21		X			STOP + STREET NAMES	-	-	-				SALVAGE OR REMOVE AND DISPOSE AS DIRECTED
33	107+25		X			NO PARKING BUS STOP	-	-	-				SALVAGE OR REMOVE AND DISPOSE AS DIRECTED (ON EXISTING LUMINAIRE)
34	107+25					NO MOTOR VEHICLES/HORSES	-	-	-				SALVAGE OR REMOVE AND DISPOSE AS DIRECTED
35	107+70		X			NO PARKING ANYTIME	-	-	-				SALVAGE OR REMOVE AND DISPOSE AS DIRECTED
36	107+70		X			BUS STOP (CBJ)	-	-	-				RELOCATE AS SIGN #25
37	11+55		X	R2-1	W.B.	SPEED LIMIT 20	-	-	-				LEAVE AS IS
38													
39									TOTAL= 121.22				

### FLEXIBLE DELINEATORS SUMMARY

SEE SHEETS L1 & L6

STATION	OFFSET (ft)		TYPE	REMARKS
	LT.	RT.		
104+75	3		A	
104+75		-3	A	1.4 RT
104+95		-4	A	104+96, 3.7 RT
105+07	4		A	105+05
105+38	5		A	
105+38	29		B	
105+95	-5		A	105+96, 4.6 LT
106+37		30	B	
106+53	-5		A	106+50.8, 4.7 LT
107+07		-5	A	107+34, 4.9 RT
107+52	-32		B	107+52.4, 2.9 LT
107+93		-5	A	4.8 RT
108+45		30	B	108+44.5, 2.9 RT
108+50	-5		A	108+48.5, 4.7 RT

STATION & OFFSET ARE APPROXIMATE ONLY.  
 PLACE AS DIRECTED BY THE ENGINEER.  
 SEE SHEET L-6.

ADDENDUM NUMBER  
 ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/VALLEY BLVD/ MENDENHALL BLVD SIGNAL PROJECT NO. 68583 SIGNING SUMMARIES

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Proj. Engr. *[Signature]* Date: 7/14/04

DESIGNED BY: K. MATTSON



CHECKED BY: P. PURVES  
 DRAWN BY: D. STEVENS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

JNU-LOOP RD/VALLEY BLVD/ MENDENHALL BLVD SIGNAL PROJECT NO. 68583 SIGNING SUMMARIES

PROJECT DESIGNATION NUMBER

HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003

SHEET NUMBER	TOTAL SHEETS
D1	46

**LOOP DETECTOR SUMMARY** SEE SHEETS S1, S2, S6 & S7.

LOOP No.	LOOP DETECTOR		390 CJ CONTROLLER		FUNCTION TYPE	STATION	OFFSET	SIZE	REMARKS
	DET. No.	CHAN. No.	CHAN. No.	PHASE					
111	1	1	Veh 1	1	Presence	107+95	LEFT	6'x6'	111-115 CONNECTED IN SERIES
112	1	1	Veh 1	1	Presence	107+79	LEFT	6'x6'	
113	1	1	Veh 1	1	Presence	107+63	LEFT	6'x6'	
114	1	1	Veh 1	1	Presence	107+47	LEFT	6'x6'	
115	1	1	Veh 1	1	Presence	107+31	LEFT	6'x6'	
211	2	1	Veh 2	2	Ext	103+30	RIGHT	6'x6'	213-215 CONNECTED IN SERIES
212	2	1	Veh 2	2	Ext	104+50	RIGHT	6'x6'	
213	2	2	Aux 2	2	EC/DC	106+28	RIGHT	6'x6'	
214	2	2	Aux 2	2	EC/DC	106+44	RIGHT	6'x6'	
215	2	2	Aux 2	2	EC/DC	106+60	RIGHT	6'x6'	
411	2	3	Veh 4	4	Presence	11+12	RIGHT	6'x6'	411-415 CONNECTED IN SERIES
412	2	3	Veh 4	4	Presence	10+96	RIGHT	6'x6'	
413	2	3	Veh 4	4	Presence	10+80	RIGHT	6'x6'	
414	2	3	Veh 4	4	Presence	10+64	RIGHT	6'x6'	
415	2	3	Veh 4	4	Presence	10+48	RIGHT	6'x6'	
511	3	1	Veh 5	5	Presence	105+93	RIGHT	6'x6'	511-515 CONNECTED IN SERIES
512	3	1	Veh 5	5	Presence	106+09	RIGHT	6'x6'	
513	3	1	Veh 5	5	Presence	106+25	RIGHT	6'x6'	
514	3	1	Veh 5	5	Presence	106+41	RIGHT	6'x6'	
515	3	1	Veh 5	5	Presence	106+57	RIGHT	6'x6'	
611	3	2	Veh 6	6	Ext	110+55	LEFT	6'x6'	613-615 CONNECTED IN SERIES
612	3	2	Veh 6	6	Ext	109+35	LEFT	6'x6'	
613	3	3	Aux 6	6	EC/DC	107+62	LEFT	6'x6'	
614	3	3	Aux 6	6	EC/DC	107+46	LEFT	6'x6'	
615	3	3	Aux 6	6	EC/DC	107+30	LEFT	6'x6'	
811	4	1	Veh 8	8	Presence	10+43	LEFT	6'x6'	811-815 CONNECTED IN SERIES
812	4	1	Veh 8	8	Presence	10+59	LEFT	6'x6'	
813	4	1	Veh 8	8	Presence	10+75	LEFT	6'x6'	
814	4	1	Veh 8	8	Presence	10+91	LEFT	6'x6'	
815	4	1	Veh 8	8	Presence	11+10	LEFT	6'x6'	
821	4	2	Aux 8	8	Que	10+80	LEFT	6'x6'	

**NOTES:**

- EACH LOOP SHALL HAVE IT'S OWN SEPARATE LEAD-IN CABLE.
- USE 6-PAIR MULTI-CONDUCTOR LEAD-IN CABLE FROM FIRST JUNCTION BOX TO THE CABINET.
- LOOPS SHALL BE CENTERED IN LANES.
- EC/DC = EXTENDED CALL / DELAYED CALL.

**JUNCTION BOX SUMMARY**

SEE SHEETS S1, S2, S3 & L2, L3.

NO.	STATION	OFFSET	TYPE	REMARKS
1	<del>107+30</del>	<del>42' RT.</del>	III	TRAFFIC 107+43.4, 39.85 RT
2	<del>106+60</del>	<del>40' RT.</del>	III	TRAFFIC 106+47.0, 38.45 RT
3	<del>106+40</del>	<del>41' LT.</del>	III	TRAFFIC 106+42.3, 44.95 LT
4	107+28	45' LT.	III	TRAFFIC 48.92 LT
5	<del>109+35</del>	<del>40' LT.</del>	IA	TRAFFIC 109+26.81, 27.85 LT
6	110+55	40' LT.	IA	TRAFFIC 24.80 LT
7	<del>104+50</del>	<del>35' RT.</del>	IA	TRAFFIC 104+45.3, 29.89 RT
8	<del>103+30</del>	<del>35' RT.</del>	IA	TRAFFIC 103+37.38, 32.7 RT
1L	107+47	31' RT.±	IA	LOCATE EXIST. CIRCUIT G-6, PLACE NEW J-BOX ON-LINE. 36.7 RT
2L	<del>106+25</del>	<del>35' RT.±</del>	II	REPLACE EXIST. WITH TYPE II
3L	<del>106+25</del>	<del>35' LT.±</del>	II	EXISTING LIGHTING & F.D. SCHOOL FLASHER
4L	109+03	30' RT.±	I	EXISTING LIGHTING (BURIED)
3L	106+24.4	36.9 LT	II	
2L	106+21.7	35.7 RT	II	

**PEDESTRIAN PUSH BUTTONS** SEE SHEETS S1, S2, S4.

POLE NO.	BUTTON NO.	STREET CROSSING	PHASE	FACING *
1	1A	MENDENHALL LOOP	4	WEST
1	1B	VALLEY BLVD.	2	SOUTH
2	2A	VALLEY BLVD.	2	NORTH
2	2B	MENDENHALL LOOP	8	WEST
3	3A	MENDENHALL LOOP	8	EAST
3	3B	MENDENHALL BLVD.	6	NORTH
4	4A	MENDENHALL BLVD.	6	SOUTH
4	4B	MENDENHALL LOOP	4	EAST

\* NOTE: FOR THIS TABLE, MENDENHALL LOOP IS CONSIDERED AS ORIENTED NORTH/SOUTH.

**SIGNAL HEAD SUMMARY** SEE SHEETS S1, S2, S4, S5 & S8.

SIGNAL HEAD NO.	POLE	PHASE	INDICATION	LENS SIZE	MOUNTING TYPE	FACING	REMARKS
1	1	2 & 5	R-Y-G-LY-LG	12"	ASTRO BRAC 0109	NB	MUTCD CONFIG O
2	1	2	R-Y-G	12"	S-1	NB	MUTCD CONFIG A
3	2	8	R-Y-G	12"	ASTRO BRAC 0116	EB	MUTCD CONFIG A
4	2	8	R-Y-G	12"	S-2	EB	MUTCD CONFIG A
5	2	1 & 6	R-Y-G-LY-LG	12"	S-2	SB	MUTCD CONFIG M
6	3	1 & 6	R-Y-G-LY-LG	12"	ASTRO BRAC 0109	SB	MUTCD CONFIG O
7	3	6	R-Y-G	12"	S-2	SB	MUTCD CONFIG A
8	3	4	R-Y-G	12"	S-2	WB	MUTCD CONFIG A
9	4	4	R-Y-G	12"	ASTRO BRAC 0116	WB	MUTCD CONFIG A
10	4	4	R-Y-G	12"	S-2	WB	MUTCD CONFIG A
11	4	2 & 5	R-Y-G-LY-LG	12"	S-2	NB	MUTCD CONFIG M
12	1	4	PED. SYMBOL		CLAMSHELL MOUNT	EB	
13	1	2	PED. SYMBOL		CLAMSHELL MOUNT	NB	
14	2	2	PED. SYMBOL		CLAMSHELL MOUNT	SB	
15	2	8	PED. SYMBOL		CLAMSHELL MOUNT	EB	
16	3	8	PED. SYMBOL		CLAMSHELL MOUNT	WB	
17	3	6	PED. SYMBOL		CLAMSHELL MOUNT	SB	
18	4	6	PED. SYMBOL		CLAMSHELL MOUNT	NB	
19	4	4	PED. SYMBOL		CLAMSHELL MOUNT	WB	

**NOTE:**

- FOR THIS TABLE, MENDENHALL LOOP IS CONSIDERED AS ORIENTED NORTH/SOUTH
- INSTALL PELCO ASTRO BRAC OR EQUAL WITH 2" GALVANIZED STEEL NIPPLE, AND STAINLESS STEEL HARDWARE.
- ALL SIGNAL HEADS SHALL BE LED SIGNALS.
- FOR SIGNAL HEADS 4, 5, 10 & 11, SEE MOUNTING DETAIL ON SHEET S7.

**SALVAGE LUMINAIRE TABLE**

NO.	STATION	OFFSET	NOTE 1	REMARKS
1	106+30	38' LT.		SALVAGE
2	107+18	65' LT.		SALVAGE-DELIVER TO CBJ
3	107+28	38' RT.		SALVAGE

NOTE: 1. SALVAGE BASES AS DIRECTED BY THE ENGINEER.

**SIGNAL POLE SUMMARY** SEE SHEETS S1, S2 & S4.

POLE No.	STATION	OFFSET	FEATURES	MAST ARM LENGTH	LUMINAIRE MAST ARM LENGTH	REMARKS
1	107+38	39' RT.	STANDARD W/ LUMINAIRE	35'	15'	250 WATT, FC TYPE III LUMINAIRE
2	106+51	38' RT.	STANDARD W/ LUMINAIRE	45'	15'	250 WATT, FC TYPE III LUMINAIRE
3	106+45	46' LT.	STANDARD W/ LUMINAIRE	43'	15'	250 WATT, FC TYPE III LUMINAIRE
4	107+21	51' LT.	STANDARD W/ LUMINAIRE	28'	12'	250 WATT, FC TYPE III LUMINAIRE

PATH:  
Q:\Jnu\68583\PlanSet\0-srtable.dwg  
Tue, 29/Jul/03 08:50AM rksnyder  
PLOT:  
PSPACE 1=1(F) OR MSPAGE 1=1(F)

ADDENDUM NUMBER  
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

JNU-LOOP RD/VALLEY  
BLVD/ MENDENHALL BLVD  
SIGNAL  
PROJECT NO. 68583

SIGNAL SUMMARY

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
Proj. Engr. *[Signature]* Date 7/17/03

DESIGNED BY: K. MATTSO



CHECKED BY: P. PURVES  
DRAWN BY: D. STEVENS

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING  
SERVICES DIVISION

JNU-LOOP RD/VALLEY  
BLVD/ MENDENHALL BLVD  
SIGNAL  
PROJECT NO. 68583

SIGNAL SUMMARY  
PROJECT DESIGNATION NUMBER

**HRO-0966(24) / 68583**

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
D2	46

<b>LOAD CENTER SUMMARY</b> SEE SHEET L5.				
NO.	STATION	OFFSET	TYPE	REMARKS
1	-107+51	-55' RT.	1	
	107+60.97	53.93 RT		

<b>SUMMARY OF LOAD CENTER: G</b>				
<b>LOAD CENTER TYPE 1</b>				
LOAD CENTER: LOCATION DATA: STA. 107+51, 55' RT.				
POWER SOURCE: POWER POLE: STA. 108+32, 56' RT.				
PHOTOELECTRIC CONTROL: YES				
SERVICE VOLTAGE	1 PHASE,	3-WIRE,	120/240	VOLTS, 60 Hz.
INTERRUPTING CAPACITY OF CIRCUIT BREAKERS--SERIES RATED			10,000 AIC	
PROVIDE METER SOCKET? YES			SERVICE AMPS	125A
MAIN BREAKER A:	120/240 VOLT,	2 POLE,	100 AMPHERES	
CONTACTOR:	600 VOLT,	12 POLE,	30 AMPHERES	
<b>LOAD PANEL A SUMMARY</b>				
CIRCUIT NUMBER	DESCRIPTION	KVA LOAD	BREAKER	
			AMPS	POLES
G1	PHOTO ELECTRIC CONTROL	0.10	15A	2
G2	TRAFFIC SIGNAL	3.17	50A	1
G3 (OLD G4)	F.D. SCHOOL FLASHER	0.30	15A	1
G4 (OLD G1)	HIGHWAY LIGHTING	1.30	15A	2
G5 (OLD G2)	HIGHWAY LIGHTING	1.30	15A	2
G6 (OLD G3)	HIGHWAY LIGHTING	2.00	15A	2
G7 (OLD G5)	HIGHWAY LIGHTING	0.70	15A	2
G8	HIGHWAY LIGHTING	1.40	15A	2
G9	SIGNAL CAB HEATER	1.44	20A	2
TOTAL KVA		11.71		

**CIRCUIT DESCRIPTION**

**CIRCUIT**

- G-1 PHOTO-ELECTRIC CONTROL FOR ALL HIGHWAY LIGHTING
- G-2 LOOP/MENDENHALL BLVD./VALLEY BLVD. TRAFFIC SIGNAL SYSTEM
- G-3 SCHOOL FLASHERS AND OVERHEAD ILLUMINATED SIGNS AT FLOYD DRYDEN
- G-4 EXISTING HIGHWAY LIGHTING ON WEST SIDE OF LOOP ROAD BETWEEN MENDENHALL BLVD. AND S. EL CAMINO ST.
- G-5 EXISTING HIGHWAY LIGHTING ON EAST SIDE OF LOOP ROAD BETWEEN VALLEY BLVD. AND S. EL CAMINO ST.
- G-6 EXISTING HIGHWAY LIGHTING ON LOOP ROAD BOTH SIDES NORTH OF VALLEY BLVD.
- G-7 EXISTING HIGHWAY LIGHTING ON SIGNAL POLES AT FLOYD DRYDEN (2 LUMINAIRES)
- G-8 NEW HIGHWAY LIGHTING ON SIGNAL POLES 1-4

SEE SHEETS L-2 & L-3.

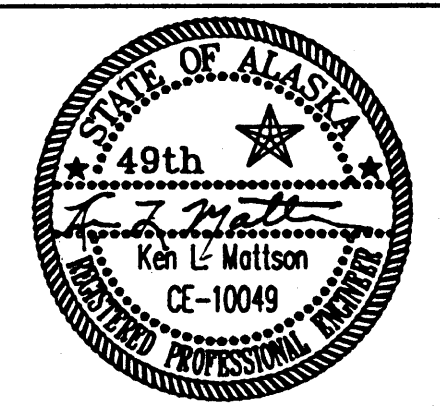
ADDENDUM NUMBER
ATTACHMENT NUMBER
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JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

LOAD CENTER SUMMARY

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 Proj. Engr. *[Signature]* Date 7/14/03

DESIGNED BY: K. MATTSON



CHECKED BY: R. PURVES

DRAWN BY: D. STEVENS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

LOAD CENTER SUMMARY

PROJECT DESIGNATION NUMBER

HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
D3	46

PIPE SUMMARY SEE SHEETS E1-E4, E7 & E8.								
PIPE NO.	TYPE	DIAMETER (inches)	LENGTH (ft)	FROM STRUCTURE	INVERT (ft)	TO STRUCTURE	INVERT (ft)	REMARKS
(P-1)	CSP	12	57.0	(S-1)	48.0	(S-2)	46.9	
(P-2)	CSP	12	27.0	(S-2)	46.9	(S-3)	46.2	
(P-3)	CSP	24	43.0	"V" 11+55, 21' LT.	<del>46.6</del> 46.55	(S-10)	46.0	
(P-4)	CSP	12	31.0	(S-3)	46.2	(S-4)	45.6	
(P-5)	CSP	12	13.0	(S-4)	45.6	"V" 11+01, 27.3' RT.	<del>45.4</del> 45.35	"V" 10+76, 27.3 RT
(P-6A)	CSP	12	<del>46.0</del> 34	"O" 104+73 LT. S-5B	46.0	(S-5A)	46.5	
(P-6)	CSP	12	50.0	(S-5A)	46.5	(S-5)	47.0	
(P-7)	CSP	12	100.0	(S-5)	47.0	(S-6)	47.4	
(P-8)	CSP	12	44.0	(S-6)	47.7	(S-7)	<del>47.5</del> 47.7	
(P-9)	CSP	12	65.0	(S-7)	47.35	"O" 107+68, 35.9' LT.	48.2	
(P-10)	CSP	12	41.0	(S-8)	47.4	(S-9)	47.2	TIE INTO S-9 INCIDENTAL TO PIPE INSTALLATION.
(P-11)	CSP	24	48.0	(S-10)	46.0	"V" 11+09, 28.0' RT.	45.4	
	GP	3	10.2	"O" 104+93				CURB DRAIN PIPE (3 EA)
	GP	3	6.8	"O" 105+12				CURB DRAIN PIPE (3 EA)
	GP	3	2.0	"O" 105+76				CURB DRAIN PIPE (3 EA)
	GP	3	2.0	"O" 106+16				CURB DRAIN PIPE (3 EA)
	GP	3	2.0	"O" 107+72				CURB DRAIN PIPE (3 EA)
	GP	3	2.0	"O" 108+12				CURB DRAIN PIPE (3 EA)
P-6B	CSP	18	20.0	S-5B		"O" 104+65, 38' LT		CONNECTED TO EXISTING 18" CULVERT UNDER CHURCH DRIVEWAY.
P-6C	CSP	12	4.5	S-5B		"O" 104+79.5, 40.3' LT		CONNECTED TO EXISTING 12" DRAIN PIPE FROM CHURCH LOT.
P-6D	CSP	12	6.0	"O" 104+80, 50' LT		"O" 104+80, 56' LT		REPLACED 6' SECTION OF EXISTING DRAIN PIPE FROM CHURCH LOT.

DRAINAGE STRUCTURE SUMMARY SEE SHEETS E1-E4, E7 & E8.					
STRUCTURE NO.	STATION	OFFSET (ft)	TOP OF GRATE/LID (ft)	STRUCTURE INVERT (ft)	REMARKS
(S-1)	"O" 107+66	35.7 RT.	<del>51.90</del> 51.40	48.0	TYPE "A" INLET
(S-2)	"V" 10+70	16.1 LT.	50.18	46.9	TYPE "A" INLET
(S-3)	"V" 11+08 10+99.12	14.7 LT.	<del>50.02</del> 49.57	46.2	TYPE "A" INLET
(S-4)	"V" 11+08 11+00.29	16.6 LT.	<del>49.90</del> 49.55	45.6	TYPE "A" INLET
(S-5A)	"O" 105+15 11.02	35.8 LT.	<del>48.75</del> 49.28	46.5	TYPE "A" INLET
(S-5)	"O" 105+69 10.98	35.8 LT.	<del>49.20</del> 49.78	47.0	TYPE "A" INLET
(S-6)	"M" 10+60	28.2 LT.	49.16	47.4	TYPE "A" INLET
(S-7)	"M" 10+60 10+61	15.3 RT.	<del>50.02</del> 49.63	47.7	TYPE "A" INLET ADJUSTED LOCATION TO AVOID CONFLICT WITH TELEPHONE CABLES.
(S-8)	"M" 11+22 11+19.5	27.7 LT.	49.35	<del>47.4</del> 47.35	TYPE "A" INLET ADJUSTED LOCATION TO AVOID CONFLICT WITH WATER & SEWER SERVICE.
(S-9)	"M" 11+62.5	14.3 LT.	<del>49.20</del> 48.76	<del>47.2</del> 46.44	EXISTING TYPE "A" INLET TO REMAIN
(S-10)	"V" 11+10	20.6 LT.	<del>49.00</del> 49.25	46.0	TYPE "I" INLET
S-5B	"O" 104+80.5	35.8' LT			TYPE A INLET BOX WITH CLOSED GRATE ADDED TO TIE IN EXISTING DRAIN FROM CHURCH LOT.

- NOTES:
1. STATION AND OFFSET FOR CURB INLETS ARE MEASURED TO TOP BACK OF CURB AND INLETS ARE MEASURED TO CENTER OF STRUCTURE.
  2. ALL INLETS TO HAVE 18" SUMPS.

JNU-LOOP RD/ VALLEY  
 BLVD/MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583  
 SUMMARY OF QUANTITIES

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 Proj. Engr. *[Signature]* Date 9/17/04

DESIGNED BY: P. BEDNAROWICZ



CHECKED BY: P. BEDNAROWICZ

DRAWN BY: D. STEVENS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

JNU-LOOP RD/ VALLEY  
 BLVD/MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO 68583  
 SUMMARY OF QUANTITIES

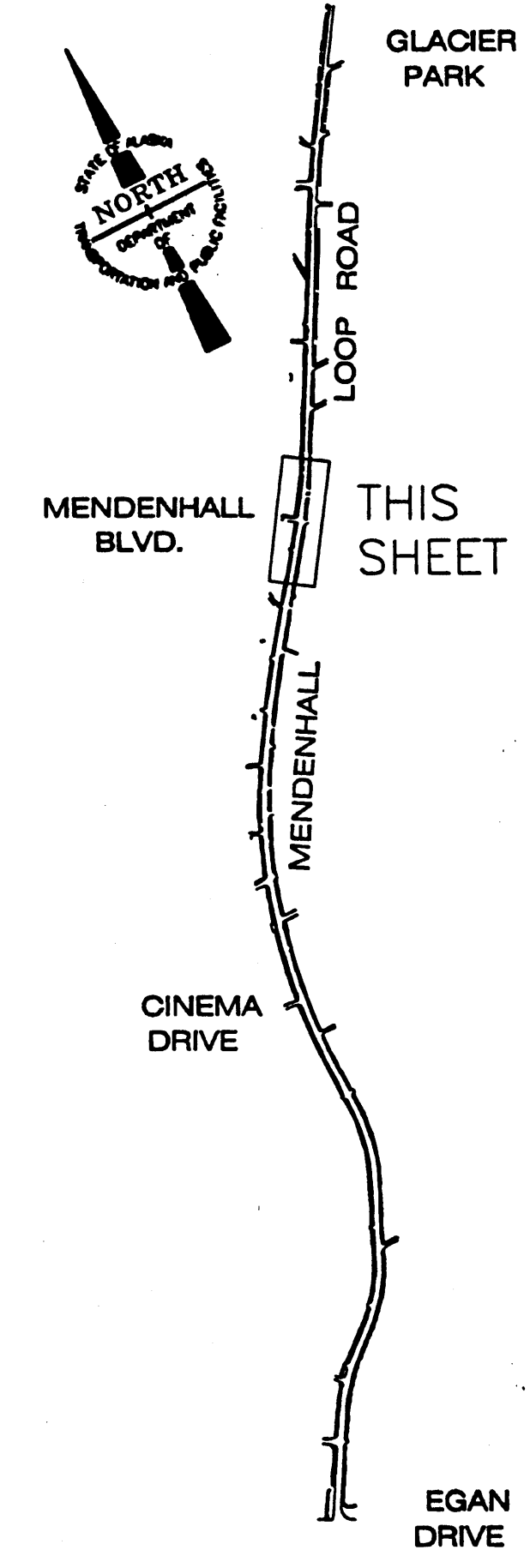
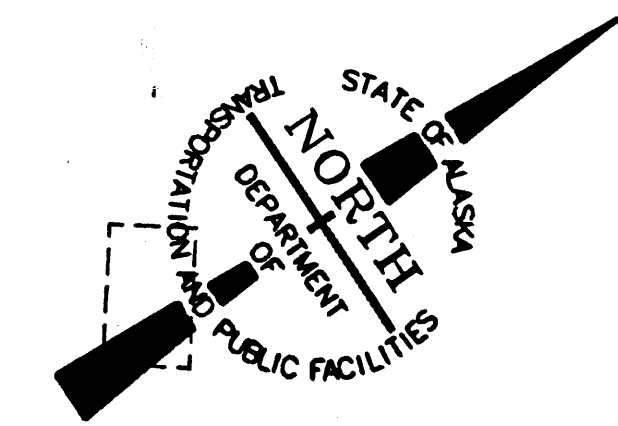
PROJECT DESIGNATION NUMBER

HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
D4	46



ADDENDUM NUMBER		
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GLACIER VALLEY BAPTIST CHURCH

BOP MENDENHALL LOOP RD.  
 STA. "O" 103+40

R/W

MATCH EXISTING  
 10'± WIDE PATH  
 NEW BUS SHELTER

SEE SHEET F-3  
 FOR DETAILS

MATCH EXIST.  
 STA. "O" 106+92.48=  
 STA. "M" 10+00  
 STA. "V" 10+00  
 N=512,687.7315  
 E=500,318.6154

"O" LINE CURVE DATA  
 R=5729.58  
 L=801.60  
 Tan=401.46  
 Δ=8°00'58"

STA. PC "O" 104+51.67  
 N=512,492.792  
 E=500,177.260

"V" LINE CURVE DATA  
 R=210.00  
 L=130.55  
 Tan=67.46  
 Δ=35°37'12"

EOP MENDENHALL LOOP RD.  
 STA. "O" 110+60

MATCH EXISTING  
 10'± WIDE PATH  
 Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *[Signature]* Date: 9/11/04

DESIGNED BY: R. KRAEMER



CHECKED BY: Pete Bednorowicz

DRAWN BY: GDM Graphics

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

JNU-LOOP RD/ VALLEY BLVD/ MENDENHALL BLVD SIGNAL  
 PROJECT NO. 68583

PLAN VIEW

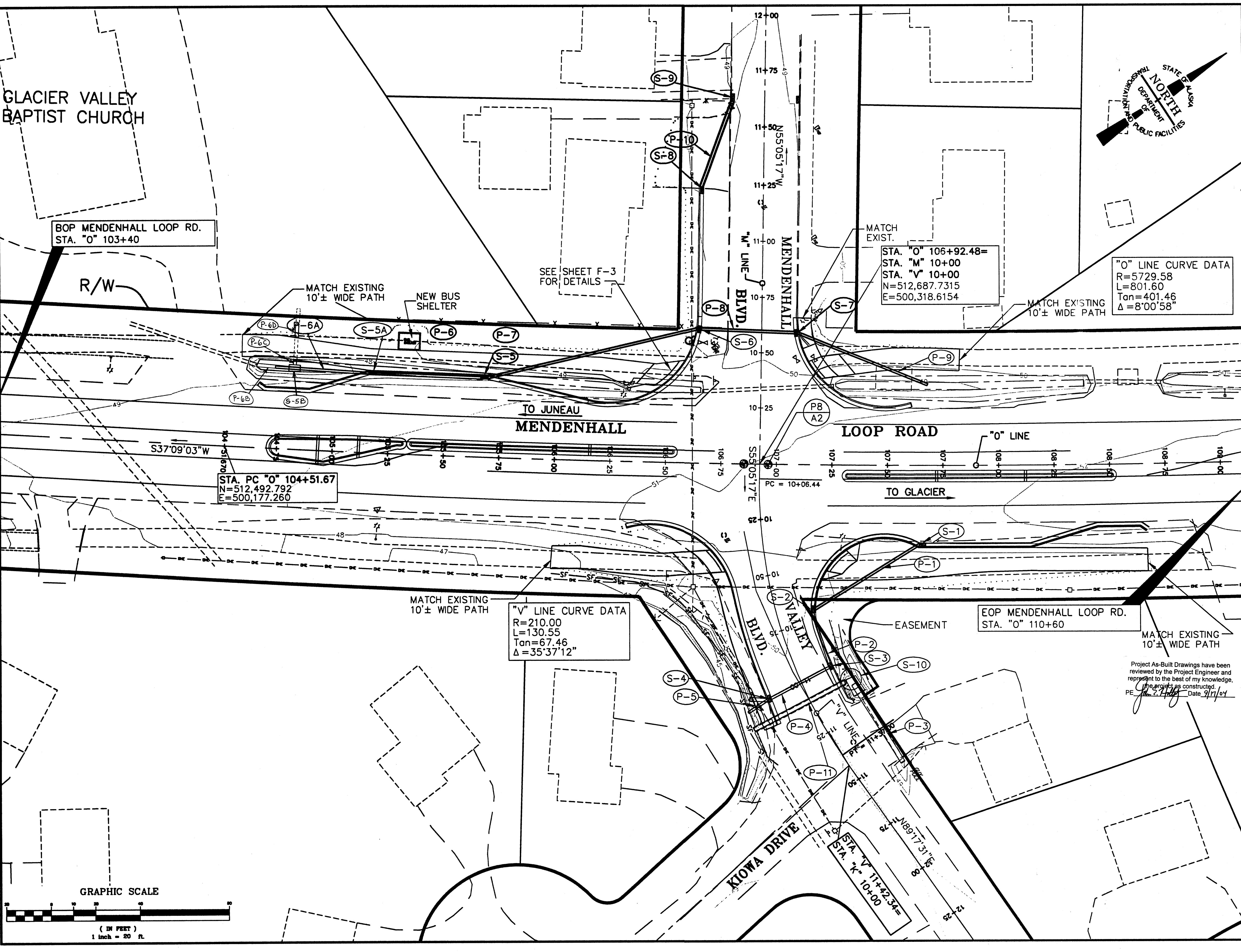
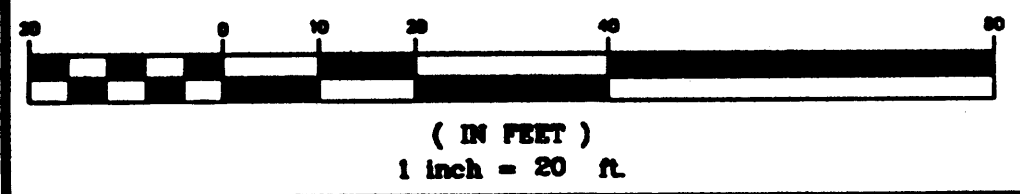
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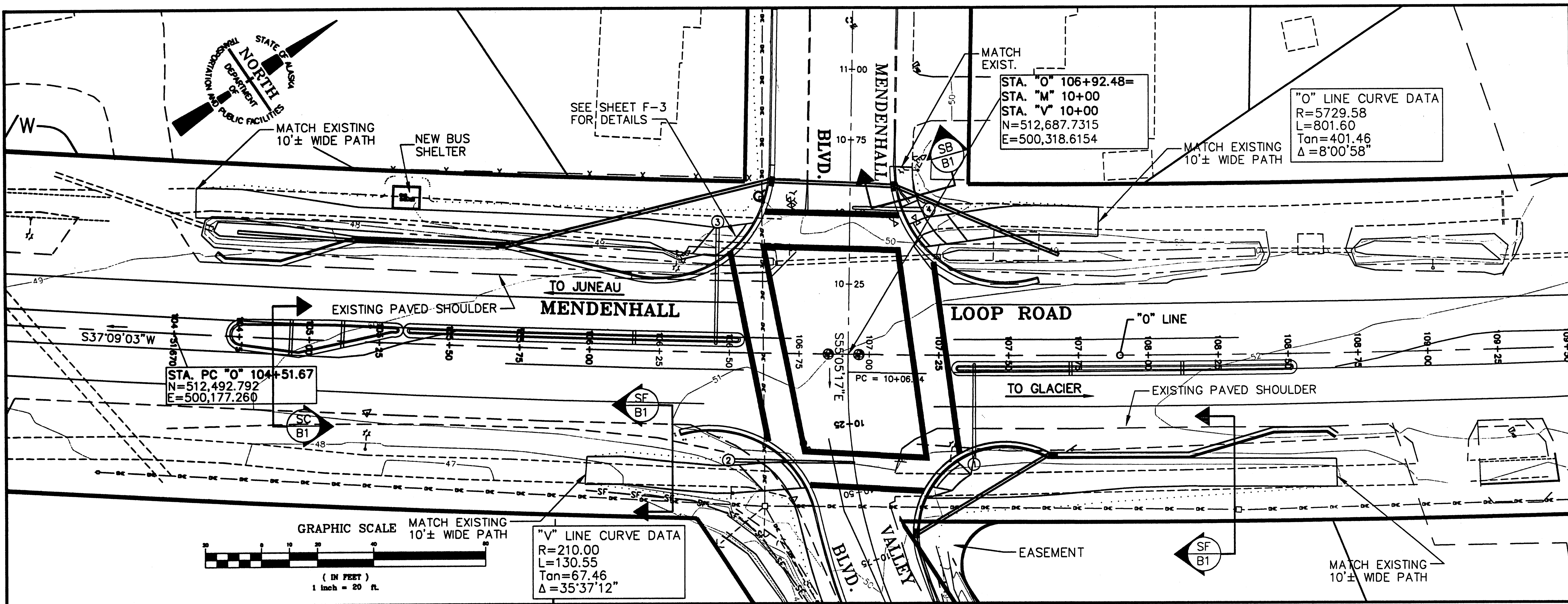
HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003

SHEET NUMBER	TOTAL SHEETS
E1	46

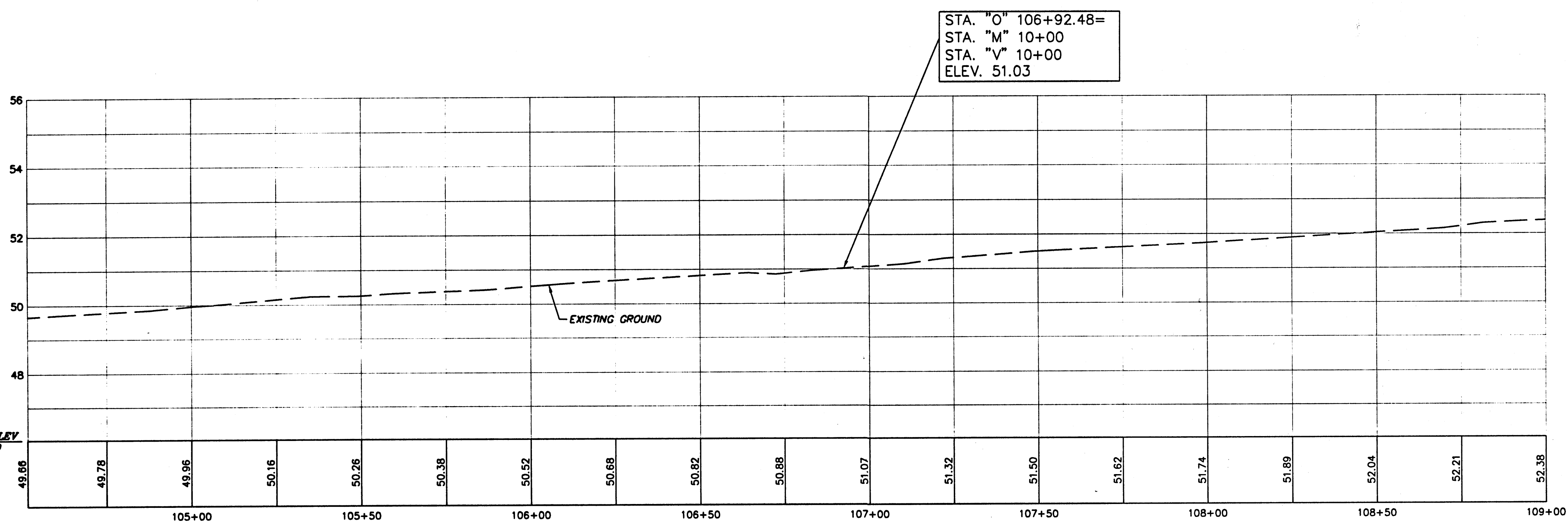
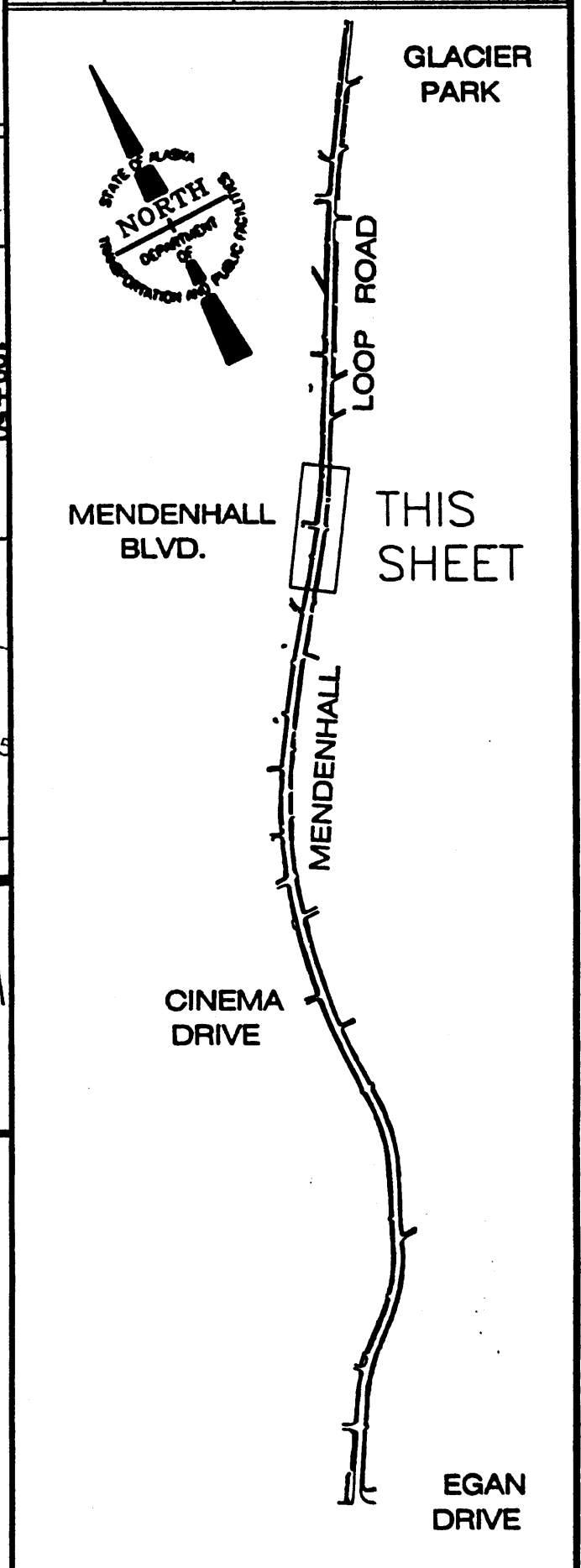
GRAPHIC SCALE





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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



MENDENHALL LOOP ROAD  
"O" LINE PROFILE

SCALE: HORZ. 1"=20'

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
Date 9/17/04

DESIGNED BY: R. KRAEMER



CHECKED BY: Pete Bednarowicz  
DRAWN BY: GDM Graphics

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

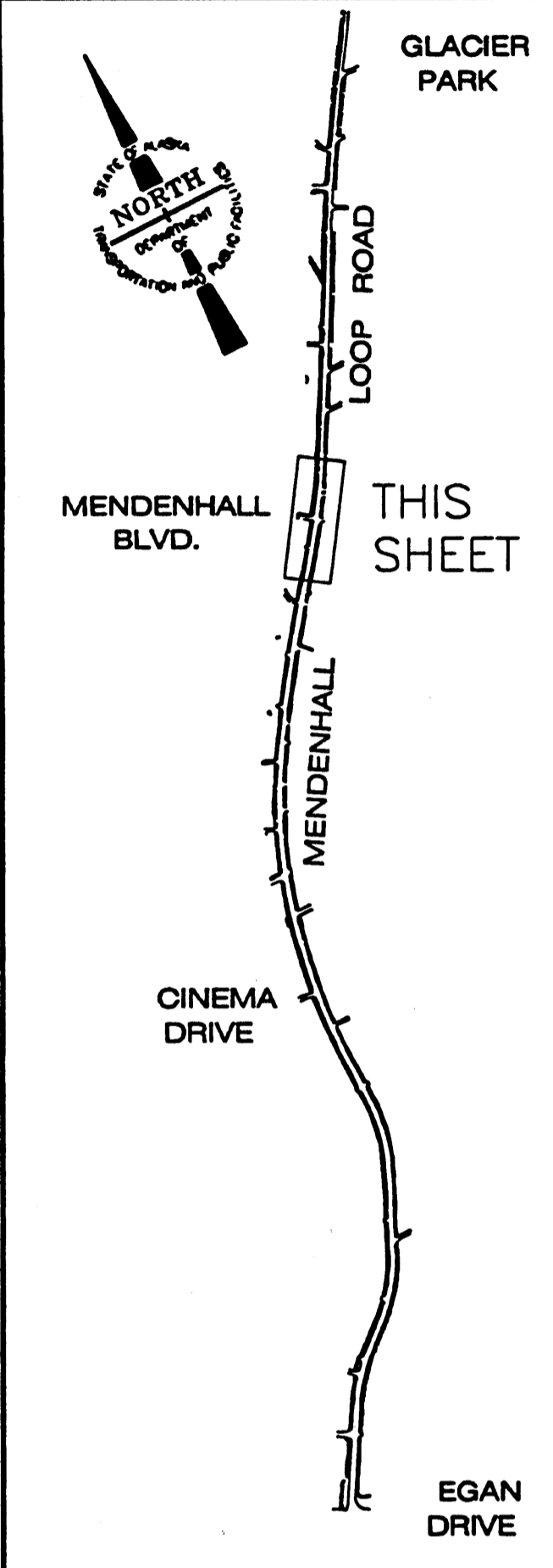
JUNEAU LOOP RD/ VALLEY BLVD/ MENDENHALL BLVD SIGNAL

STA. "O" 104+51.67 TO 109+00  
PLAN & PROFILE

PROJECT DESIGNATION NUMBER  
HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
E2	46

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



DESIGNED BY: R. KRAEMER



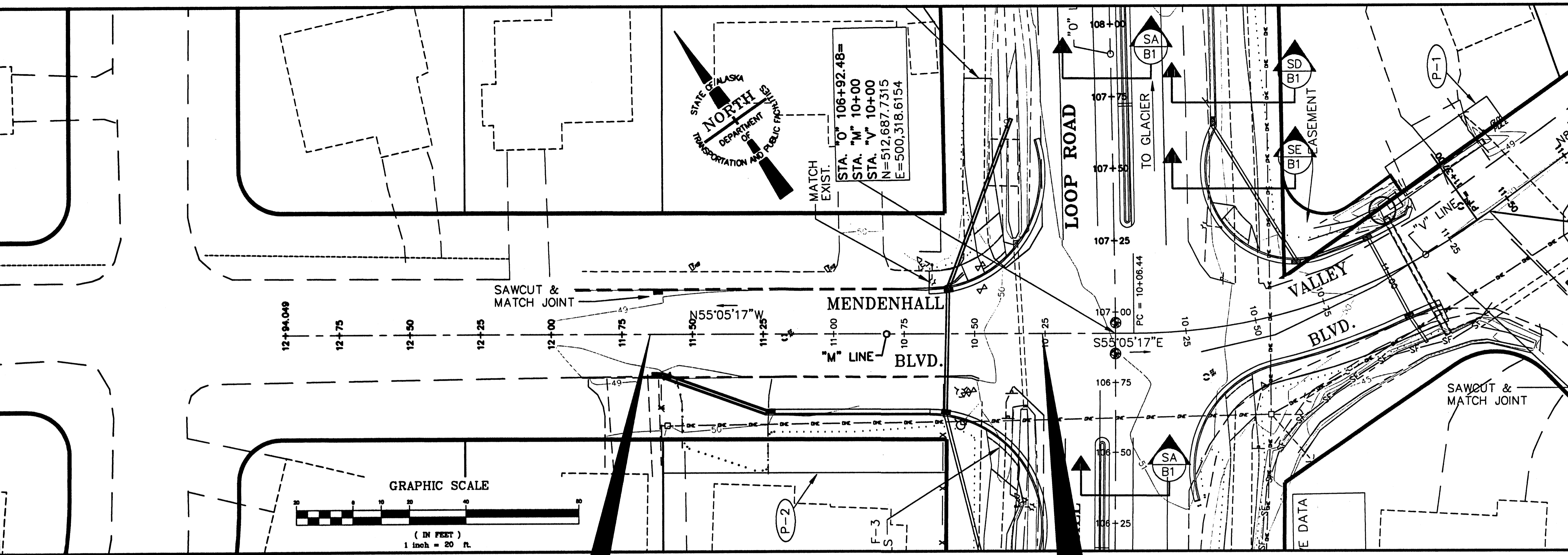
CHECKED BY: Pete Bednarowicz  
 DRAWN BY: GDM Graphics

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583  
 STA. "M" 10+00 TO 12+02.460  
 PLAN & PROFILE

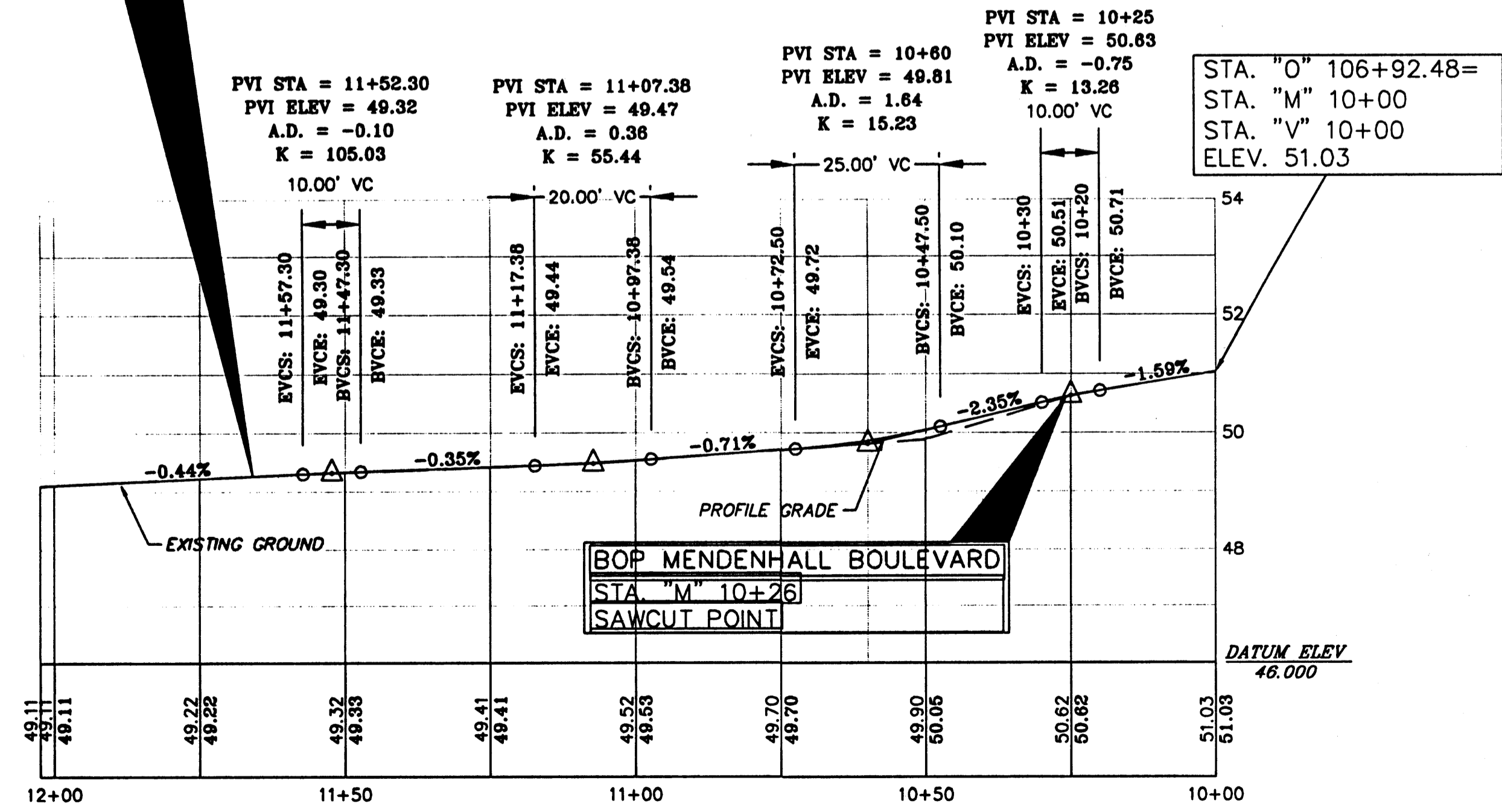
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**HRO-0966(24) / 68583**

STATE	YEAR
<b>ALASKA</b>	<b>2003</b>
SHEET NUMBER	TOTAL SHEETS
<b>E3</b>	<b>46</b>



EOP MENDENHALL BOULEVARD  
 STA. "M" 11+65

BOP MENDENHALL BOULEVARD  
 STA. "M" 10+26  
 SAWCUT POINT



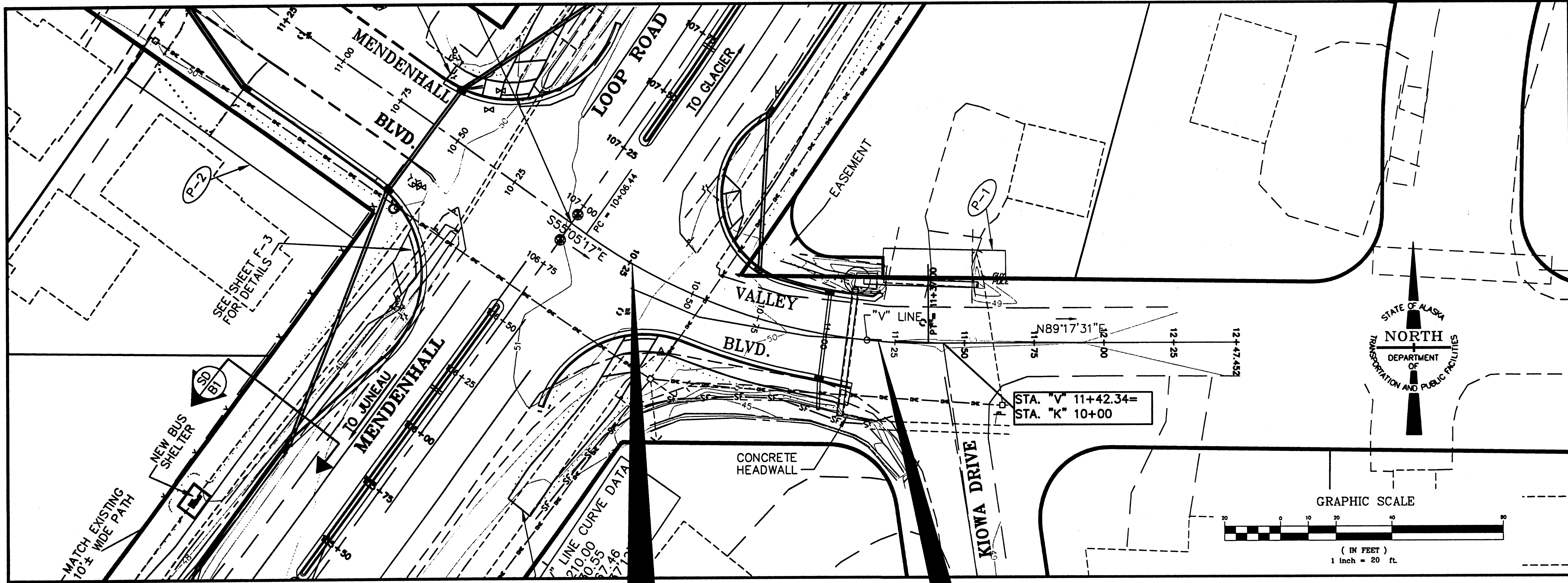
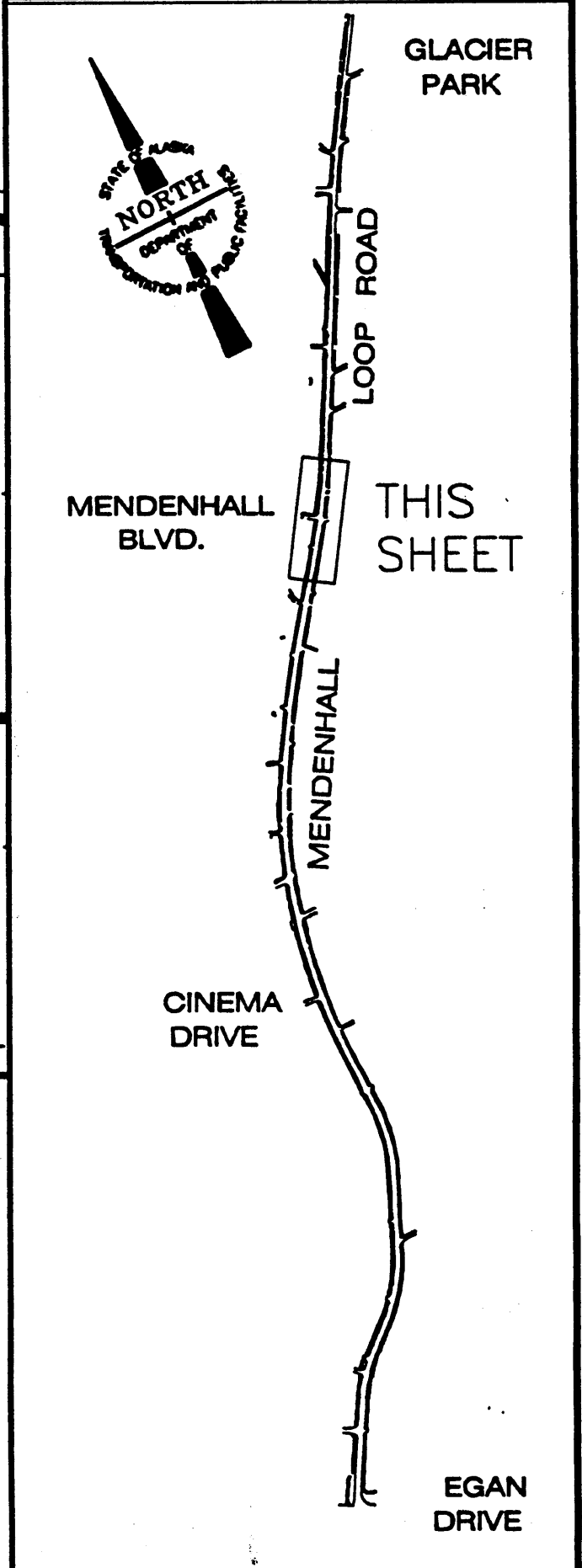
**MENDENHALL BOULEVARD  
 "M" LINE PROFILE**

SCALE: HORIZ. 1"=20'  
 VERT. 1"=2'

NOTE:  
 VERTICAL PROFILE INFORMATIONAL ONLY  
 CONTRACTOR SHALL MATCH EXISTING PROFILE  
 A.D. = Algebraic Difference  
 K = Rate of Vertical Curve

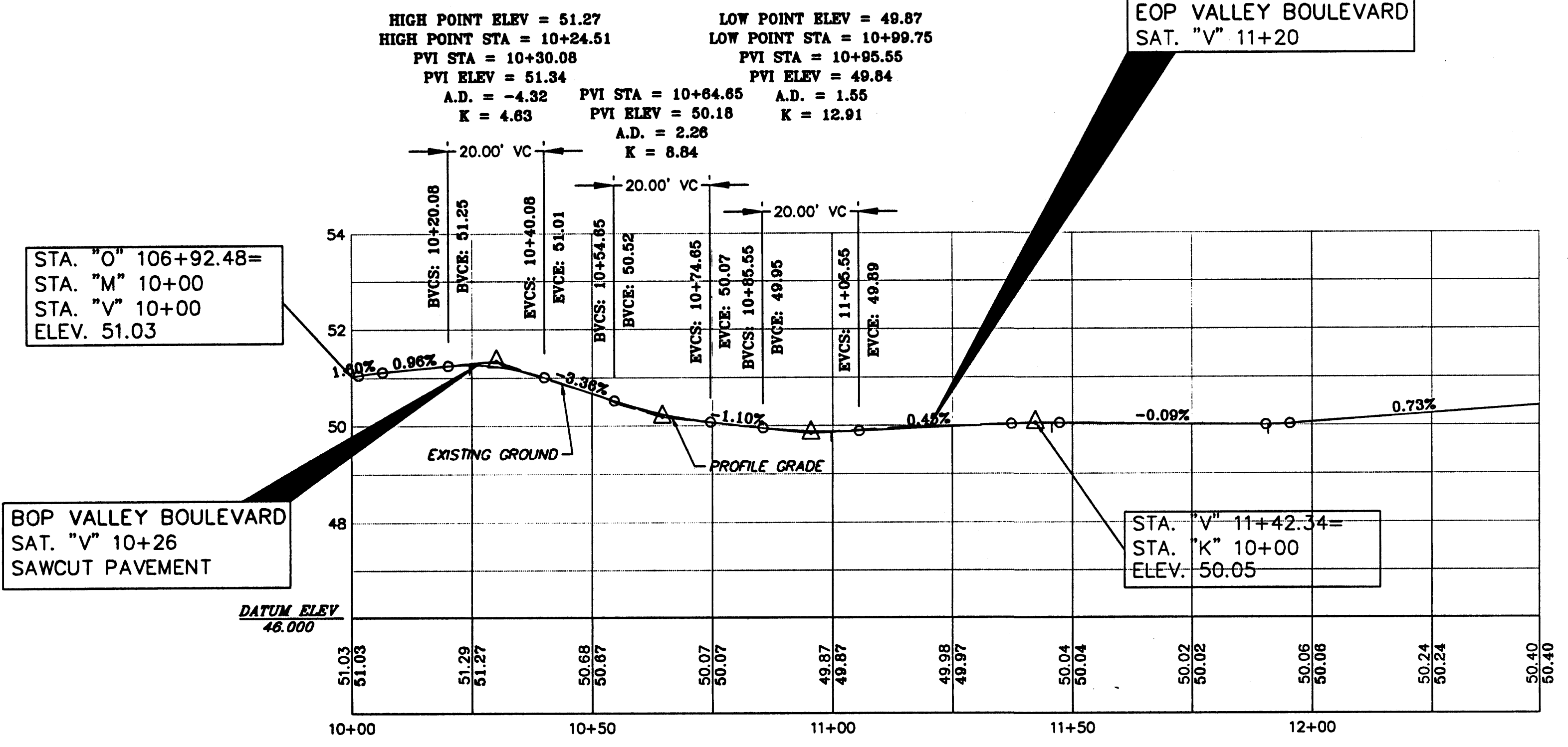
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: [Signature] Date 9/17/04

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



BOP VALLEY BOULEVARD  
 SAT. "V" 10+26  
 SAWCUT PAVEMENT

EOP VALLEY BOULEVARD  
 SAT. "V" 11+20



VALLEY BOULEVARD  
 "V" LINE PROFILE

SCALE: HORZ. 1"=20'  
 VERT. 1"=2'

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: [Signature] Date 9/1/04

DESIGNED BY: R. KRAEMER

CHECKED BY: Pete Bednarowicz  
 DRAWN BY: GDM Graphics

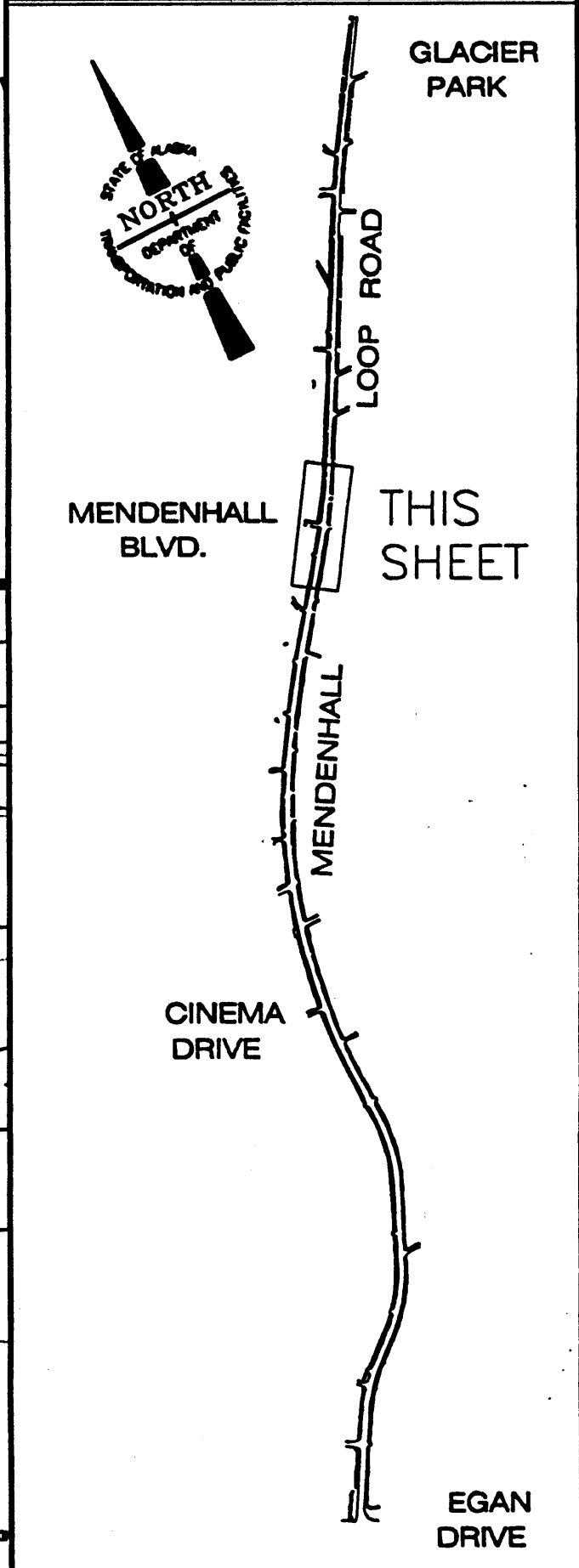
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

JNU-LOOP RD/ VALLEY BLVD/ MENDENHALL BLVD SIGNAL  
 PROJECT NO. 68583  
 STA. "V" 10+00 TO 12+47.45  
 PLAN & PROFILE

PROJECT DESIGNATION NUMBER  
**HRO-0966(24) / 68583**

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
E4	46

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



DESIGNED BY: R. KRAEMER

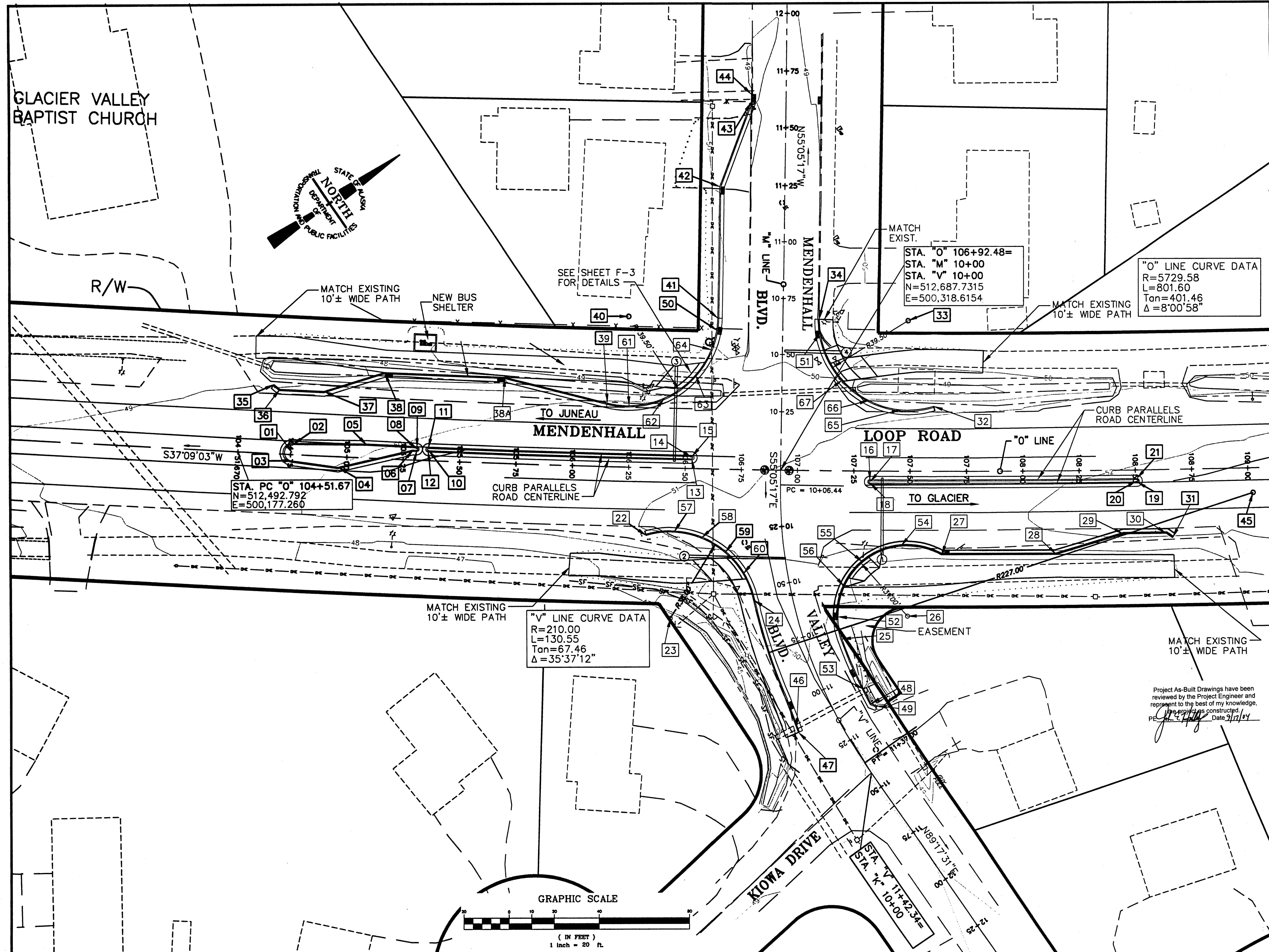
CHECKED BY: Pete Bednarowicz  
 DRAWN BY: GDM Graphics

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

CONTROL LAYOUT  
 PROJECT DESIGNATION NUMBER  
**HRO-0966(24) / 68583**

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
E5	46



ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

- |  |  |   |   |   |   |  |
|--|--|---|---|---|---|--|
| <p>[01] RADIUS POINT<br/>         STA. "O" 104+75.71,<br/>         0.81' LT.<br/>         RAD.= 3.50'</p> <p>[02] PC<br/>         STA. "O" 104+75.84,<br/>         4.30' LT.</p> <p>[03] PC<br/>         STA. "O" 104+75.75,<br/>         2.68' RT.</p> <p>[04] ANGLE POINT<br/>         STA. "O" 104+96.39,<br/>         4.53' RT.</p> <p>[05] ANGLE POINT<br/>         STA. "O" 105+08.65,<br/>         5.25' LT.</p> <p>[06] ANGLE POINT<br/>         STA. "O" 105+29.25,<br/>         4.26' LT.</p> <p>[07] PC<br/>         STA. "O" 105+30.89,<br/>         4.25 LT.</p> <p>[08] RADIUS POINT<br/>         STA. "O" 105+30.90,<br/>         4.75' LT.<br/>         RAD.= 0.52'</p> <p>[09] PC<br/>         STA. "O" 105+30.90,<br/>         5.25' LT.</p> <p>[10] RADIUS POINT<br/>         STA. "O" 105+35.89,<br/>         4.75' LT.<br/>         RAD.= 0.50'</p> | <p>[11] PC<br/>         STA. "O" 105+35.89,<br/>         5.25' LT.</p> <p>[12] PC<br/>         STA. "O" 105+35.86,<br/>         4.25' LT.</p> <p>[13] PC<br/>         STA. "O" 106+52.82,<br/>         4.25' LT.</p> <p>[14] RADIUS POINT<br/>         STA. "O" 106+53.04,<br/>         4.75' LT.<br/>         RAD.= 0.50'</p> <p>[15] PC<br/>         STA. "O" 106+52.82,<br/>         5.25' LT.</p> <p>[16] PC<br/>         STA. "O" 107+32.17,<br/>         4.25' RT.</p> <p>[17] RADIUS POINT<br/>         STA. "O" 107+32.17,<br/>         4.75' RT.<br/>         RAD.= 0.50'</p> <p>[18] PC<br/>         STA. "O" 107+32.17,<br/>         5.25' RT.</p> <p>[19] PC<br/>         STA. "O" 108+50.62,<br/>         5.25' RT.</p> <p>[20] RADIUS POINT<br/>         STA. "O" 108+50.62,<br/>         4.75' RT.<br/>         RAD.= 0.50'</p> | <p>[21] PC<br/>         STA. "O" 108+50.62,<br/>         4.25' RT.</p> <p>[22] PC, BEGIN CURB &amp; GUTTER<br/>         STA. "O" 106+33.35,<br/>         30.00' RT., ELEV=51.4'</p> <p>[23] RADIUS POINT<br/>         STA. "V" 10+54.20,<br/>         55.00' RT.<br/>         RAD.= 38.00'</p> <p>[24] PT<br/>         STA. "V" 10+54.20,<br/>         17.00' RT., ELEV=50.18'<br/>         50.68</p> <p>[25] PT<br/>         STA. "V" 10+81.50,<br/>         15.94' LT. ELEV = 49.90</p> <p>[26] RADIUS POINT<br/>         STA. "V" 10+81.57,<br/>         46.94' LT.<br/>         RAD.= 31.00'</p> <p>[27] PC<br/>         STA. "O" 107+64.04,<br/>         36.99' RT., ELEV=51.90'</p> <p>[28] ANGLE POINT<br/>         STA. "O" 108+14.54,<br/>         37.00' RT., ELEV=52.25'</p> <p>[29] ANGLE POINT<br/>         STA. "O" 108+44.36,<br/>         28.26' RT., ELEV=52.60'</p> <p>[30] ANGLE POINT<br/>         STA. "O" 108+63.36,<br/>         28.26' RT., ELEV=52.66'</p> | <p>[31] END CURB &amp; GUTTER<br/>         STA. "O" 108+66.09,<br/>         30.20' RT., ELEV=52.66'</p> <p>[32] BEGIN CURB &amp; GUTTER<br/>         STA. "O" 107+60.42,<br/>         27.83' LT., ELEV=51.40'<br/>         50.58</p> <p>[33] RADIUS POINT<br/>         STA. "M" 10+66.09,<br/>         55.60' RT.<br/>         RAD.= 39.50'</p> <p>[34] END CURB &amp; GUTTER<br/>         MATCH EXISTING<br/>         STA. "M" 10+66.09,<br/>         16.10' RT., ELEV=49.86'</p> <p>[35] BEGIN CURB &amp; GUTTER<br/>         STA. "O" 104+66.14,<br/>         29.57' LT., ELEV=49.12'</p> <p>[36] ANGLE POINT<br/>         STA. "O" 104+68.83,<br/>         27.65' LT., ELEV=49.15'<br/>         49.75</p> <p>[37] ANGLE POINT<br/>         STA. "O" 104+88.63,<br/>         27.65' LT., ELEV=49.30'<br/>         49.83</p> <p>[38] ANGLE POINT<br/>         STA. "O" 105+15.14,<br/>         37.00' LT., ELEV=49.25'</p> <p>[38A] ANGLE POINT<br/>         STA. "O" 105+68.81,<br/>         37.00' LT., ELEV=49.70'<br/>         49.78</p> <p>[39] PC<br/>         STA. "O" 106+14.80,<br/>         27.13' LT., ELEV=50.18'<br/>         50.67</p> <p>[40] RADIUS POINT<br/>         STA. "M" 10+64.14,<br/>         60.00' LT.<br/>         RAD.= 31.00'</p> | <p>[41] PC<br/>         STA. "M" 10+65.91,<br/>         29.00' LT., ELEV=49.66'</p> <p>[42] ANGLE POINT<br/>         STA. "M" 11+24.15,<br/>         29.00' LT., ELEV=49.30'<br/>         49.85</p> <p>[43] ANGLE POINT<br/>         STA. "M" 11+60.90,<br/>         15.55' LT., ELEV=49.36'</p> <p>[44] END CURB &amp; GUTTER<br/>         STA. "M" 11+64.43,<br/>         15.52' LT., ELEV=49.35'<br/>         49.26</p> <p>[45] RADIUS POINT<br/>         STA. "V" 11+37.00,<br/>         210.00' LT.<br/>         RAD.=227.00'</p> <p>[46] ANGLE POINT<br/>         STA. "V" 11+09.28,<br/>         18.00' RT., ELEV=49.90'<br/>         50.15</p> <p>[47] END CURB &amp; GUTTER<br/>         STA. "V" 11+11.32,<br/>         18.24' RT., ELEV=49.40'</p> <p>[48] ANGLE POINT<br/>         STA. "V" 11+15.64,<br/>         16.00' LT., ELEV=50.02'</p> <p>[49] END CURB &amp; GUTTER<br/>         MATCH EXISTING<br/>         STA. "V" 11+18.01,<br/>         17.88' LT.</p> <p>[50] STA. "M" 10+60.27,<br/>         29.41' LT., ELEV=49.66</p> | <p>[51] STA. "M" 10+59.87,<br/>         16.59' RT., ELEV=50.02'</p> <p>[52] STA. "V" 10+70.49,<br/>         17.39' LT., ELEV=50.16'<br/>         50.58</p> <p>[53] STA. "V" 11+07.72,<br/>         16.00' LT., ELEV=50.00'<br/>         49.70</p> <p>[54] STA. "V" 10+41.48,<br/>         51.76' LT., ELEV=51.90'</p> <p>[55] STA. "V" 10+46.79,<br/>         33.74' LT., ELEV=51.80'<br/>         52.10</p> <p>[56] STA. "V" 10+57.05,<br/>         23.56' LT., ELEV=50.89'<br/>         51.34</p> <p>[57] STA. "V" 10+24.18,<br/>         47.96' RT., ELEV=51.50'</p> <p>[58] STA. "V" 10+27.10,<br/>         36.04' RT., ELEV=51.50'</p> <p>[59] STA. "V" 10+33.53,<br/>         26.05' RT., ELEV=51.40'<br/>         51.65</p> <p>[60] STA. "V" 10+42.97,<br/>         19.36' RT., ELEV=50.79'<br/>         50.97</p> | <p>[61] STA. "O" 106+24.39,<br/>         26.21' LT., ELEV=50.25'<br/>         50.97</p> <p>[62] STA. "O" 106+39.88,<br/>         27.75' LT., ELEV=50.26'<br/>         51.65</p> <p>[63] STA. "M" 10+40.22,<br/>         38.50' LT., ELEV=50.02'<br/>         51.75</p> <p>[64] STA. "M" 10+51.45,<br/>         31.74' LT., ELEV=49.84'<br/>         51.70</p> <p>[65] STA. "O" 107+45.70,<br/>         26.28' LT., ELEV=51.50'<br/>         50.86</p> <p>[66] STA. "O" 107+31.41,<br/>         30.18' LT., ELEV=51.20'</p> <p>[67] STA. "M" 10+39.10,<br/>         26.73' RT., ELEV=50.60'</p> |
|--|--|---|---|---|---|--|

NOTE: ALL ELEVATIONS ARE TOP OF CURB

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE *[Signature]* Date 9/17/04

DESIGNED BY: R. KRAEMER



CHECKED BY: Pete Bednarowicz

DRAWN BY: GDM Graphics

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

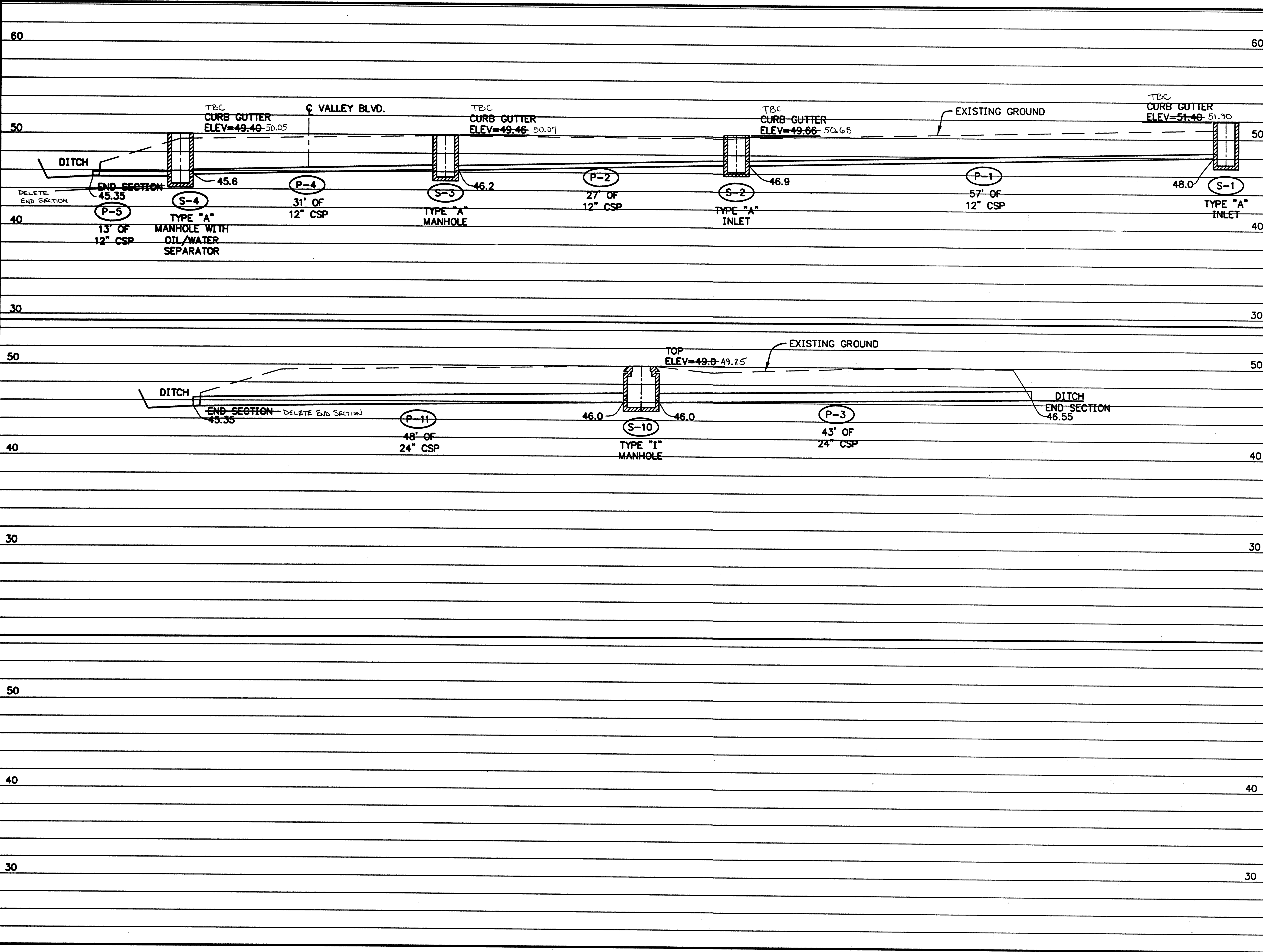
JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

CONTROL LAYOUT DETAILS

PROJECT DESIGNATION NUMBER

HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
E6	46

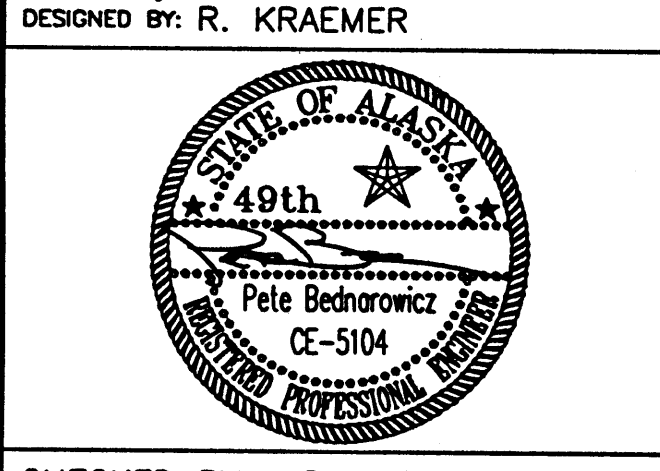


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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/ VALLEY BLVD/ MENDENHALL BLVD SIGNAL  
 PROJECT NO. 68583  
 STORM DRAIN PIPE PROFILES

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *[Signature]* Date 9/17/03



CHECKED BY: Pete Bednarowicz  
 DRAWN BY: GDM Graphics

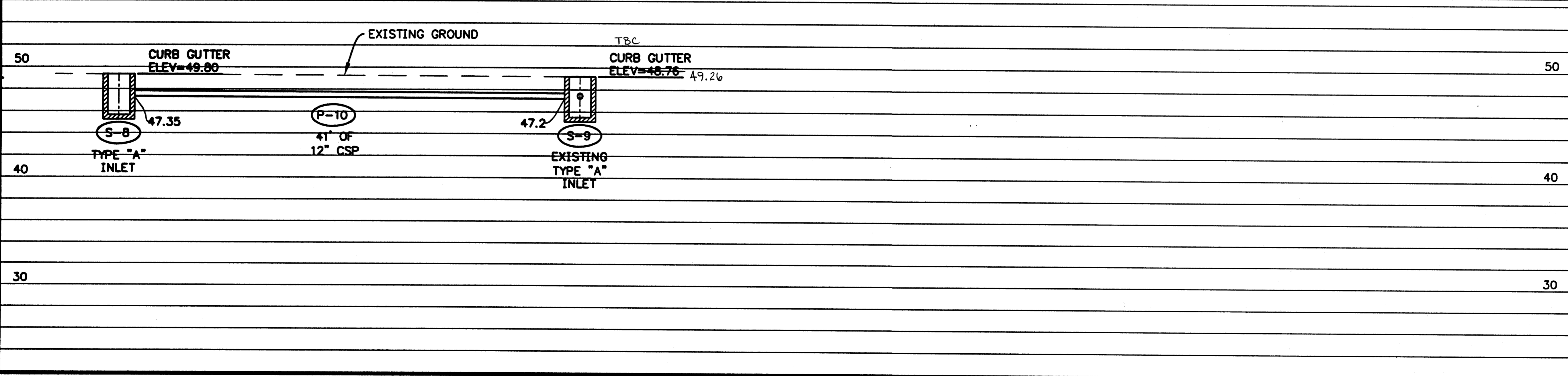
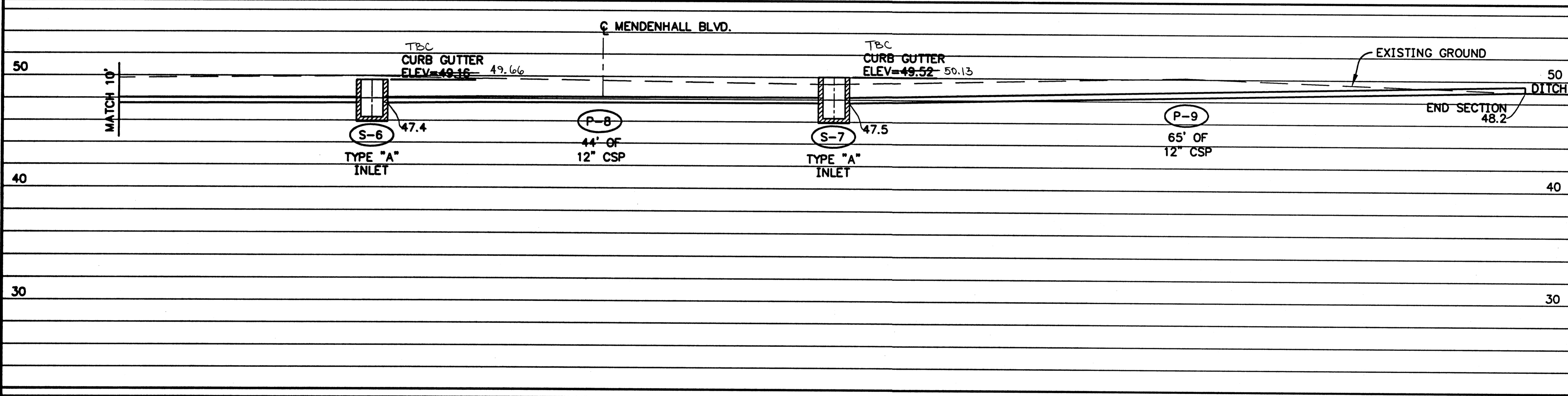
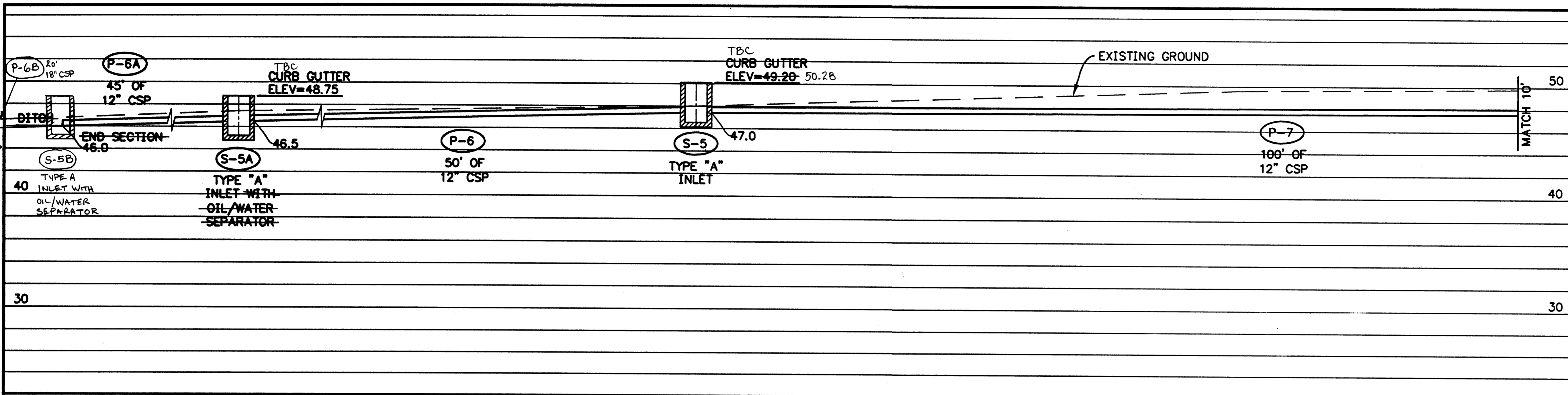
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

JNU-LOOP RD/ VALLEY BLVD/ MENDENHALL BLVD SIGNAL  
 PROJECT NO. 68583

STORM DRAIN PIPE PROFILES

PROJECT DESIGNATION NUMBER  
**HRO-0966(24) / 68583**

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
E7	46

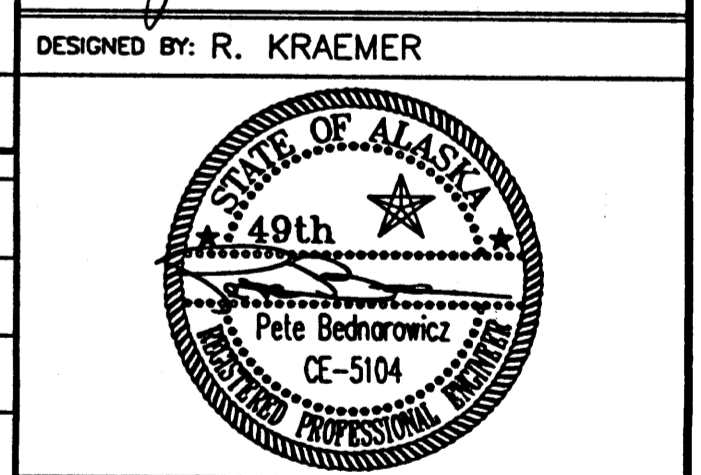


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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583  
 STORM DRAIN PIPE PROFILES

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE *[Signature]* Date 9/17/04



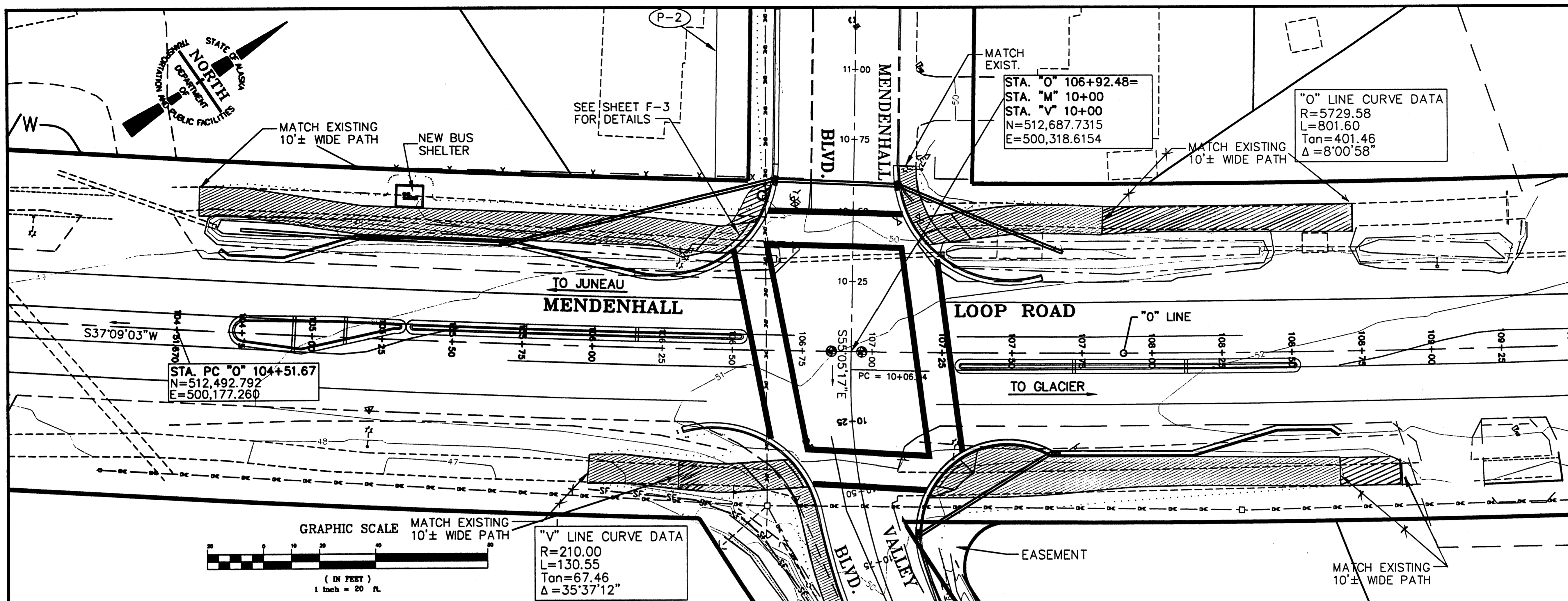
CHECKED BY: Pete Bednarowicz  
 DRAWN BY: GDM Graphics

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

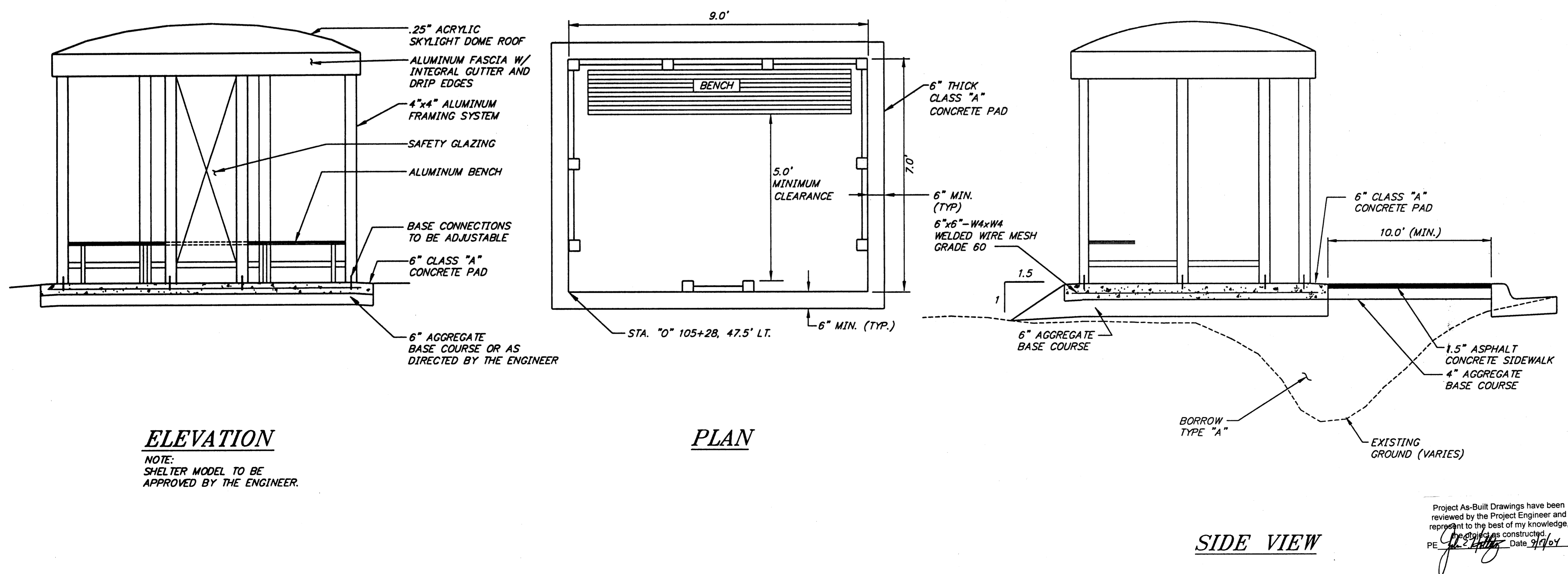
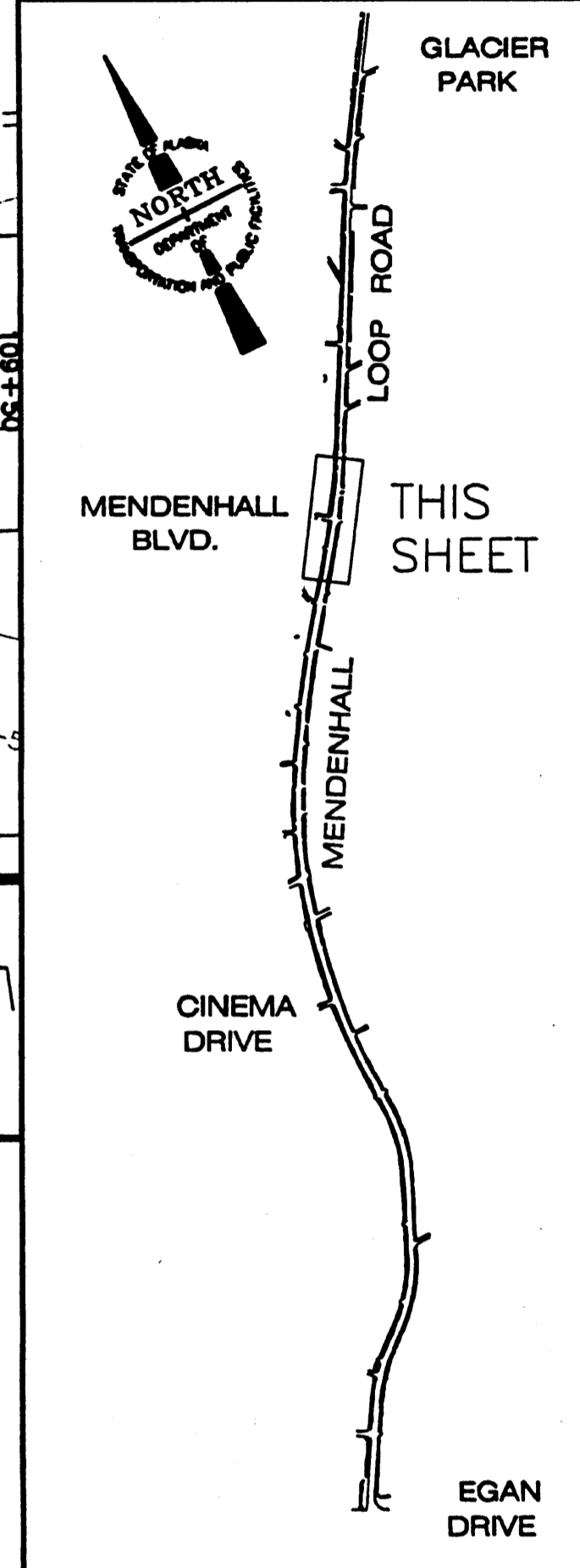
STORM DRAIN PIPE PROFILES

PROJECT DESIGNATION NUMBER	
HRO-0966(24) / 68583	
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
E8	46



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ADDENDUM NUMBER
ATTACHMENT NUMBER
RECORD OF REVISIONS
No. DATE DESCRIPTION



DESIGNED BY: R. KRAEMER

CHECKED BY: Pete Bednarowicz  
DRAWN BY: GDM Graphics

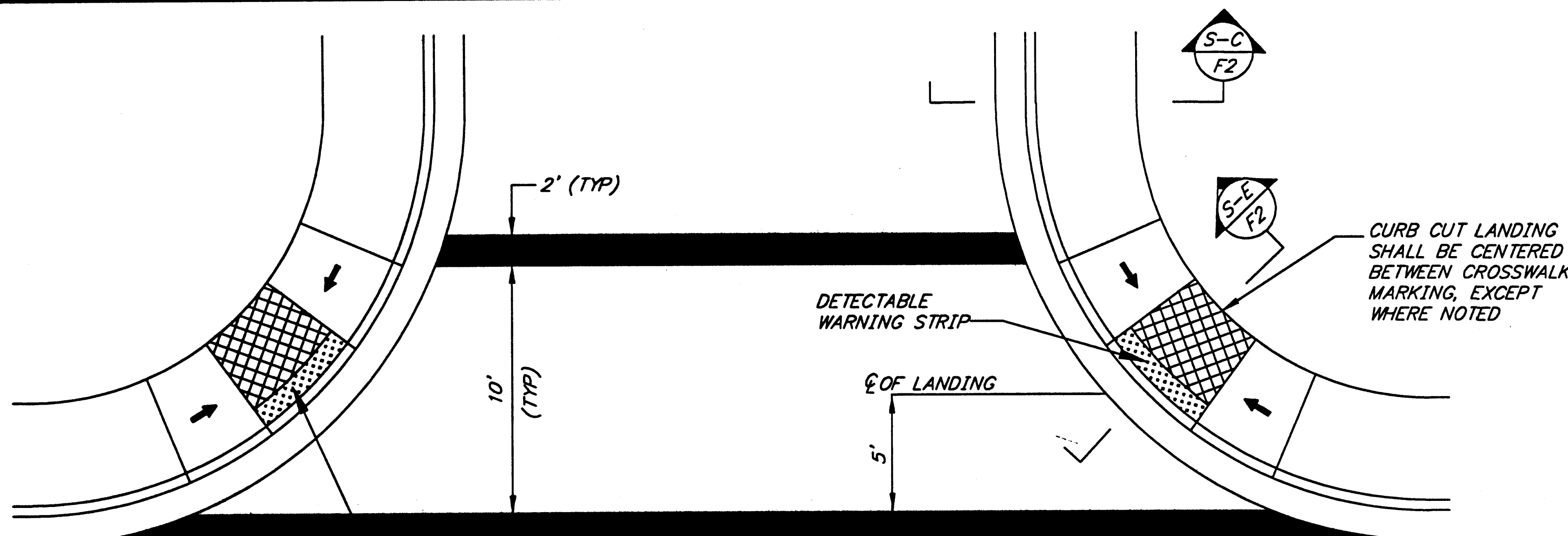
STATE OF ALASKA  
49th  
Pete Bednarowicz  
REGISTERED PROFESSIONAL ENGINEER  
CE-5104

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION  
JUNEAU LOOP RD/VALLEY BLVD/ MENDENHALL BLVD SIGNAL  
STA. "O" 104+51.67 TO 109+00  
BUS STOP SHELTER & PATH DETAILS

PROJECT DESIGNATION NUMBER  
HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
F1	46

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

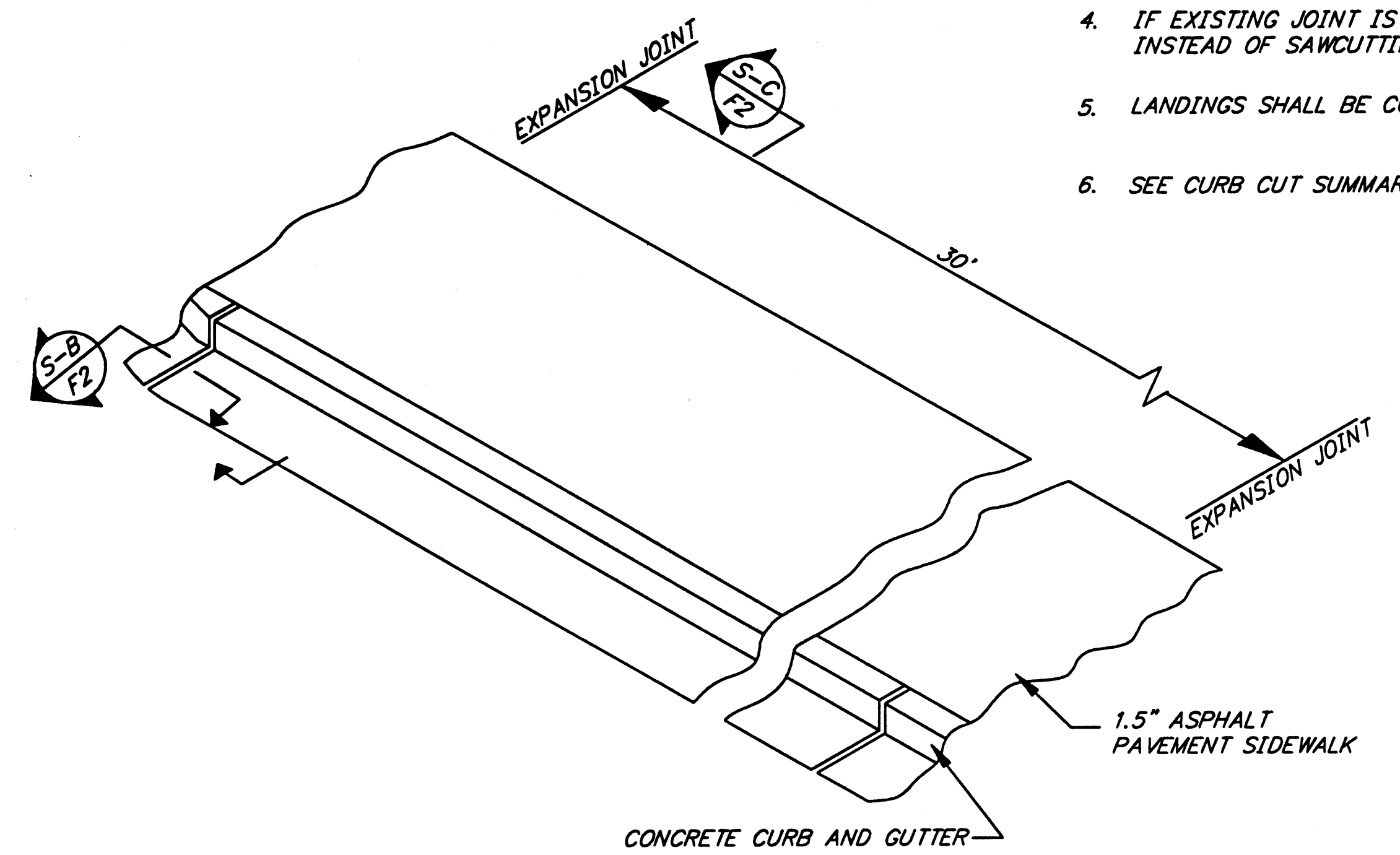


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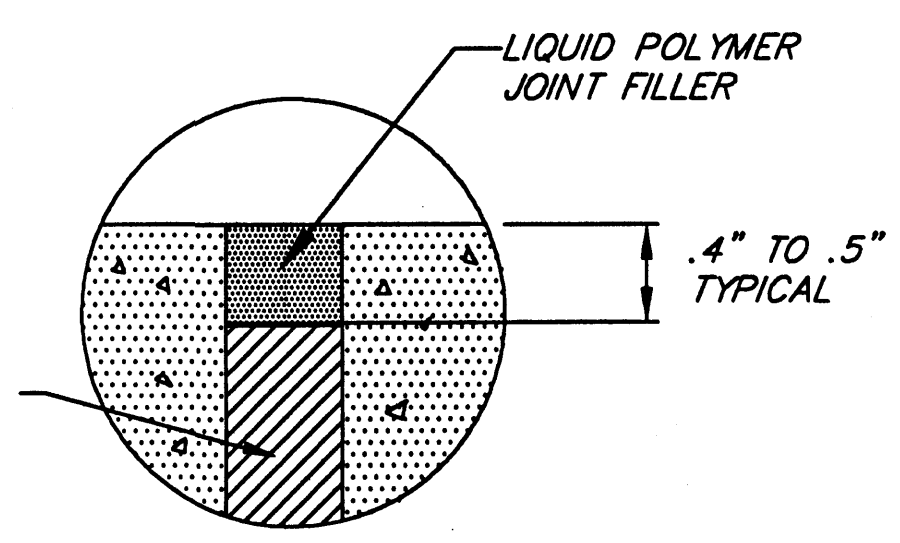
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 CORNER LOCATION

**SIDEWALK, CURB AND GUTTER NOTES**

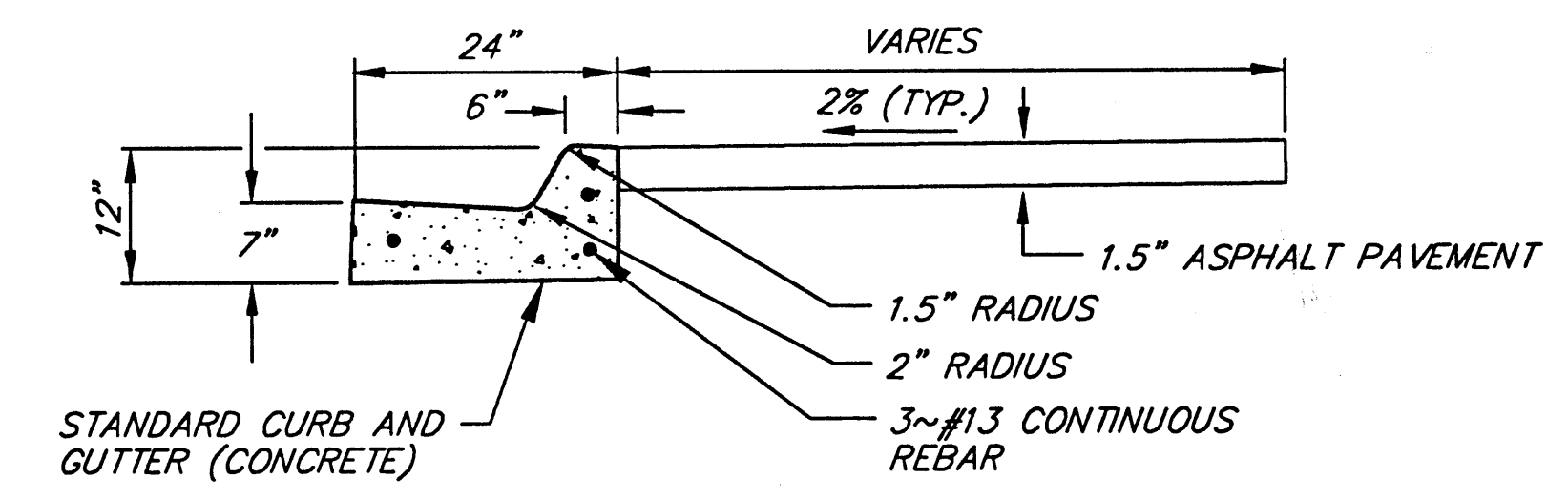
1. CURB AND GUTTER EXPANSION JOINTS SHALL BE AT EACH END OF THE CURB RETURNS AND IMMEDIATELY PRECEDING AND FOLLOWING ALL CURB CUTS. THEREAFTER, THEY SHALL BE PLACED AT 30' MAXIMUM.
2. CURB CUTS FOR RESIDENTIAL DRIVEWAYS AND CURB RETURNS SHALL NOT EXCEED THE MAXIMUM ALLOWABLE SLOPE OF 12:1.
3. ALL CURB RETURNS SHALL BE WHEELCHAIR ACCESSIBLE AS SHOWN ON THE SIDEWALK DETAIL SHEETS.
4. IF EXISTING JOINT IS WITHIN 24" OF RECONSTRUCTION AREAS, REMOVE AT JOINT INSTEAD OF SAWCUTTING. THIS DOES NOT APPLY TO NEW CONSTRUCTION.
5. LANDINGS SHALL BE CONTAINED WITHIN THE MARKED CROSSWALK.
6. SEE CURB CUT SUMMARY ON SHEET D5 FOR STATION AND OFFSET.



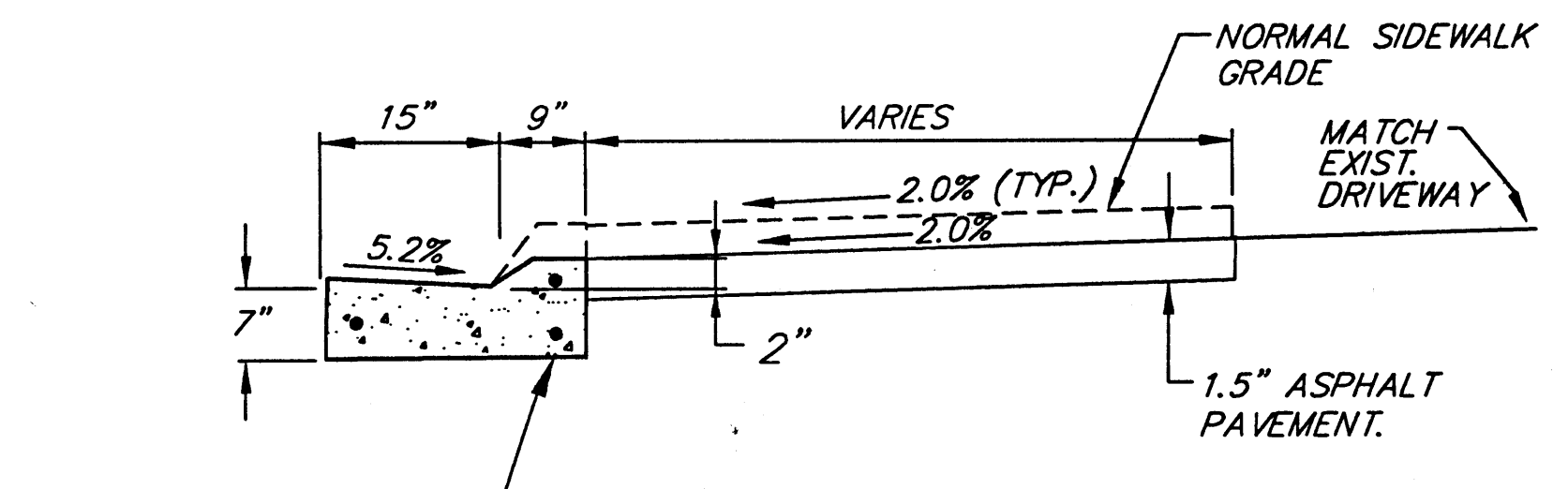
**TYPICAL SIDEWALK, CURB & GUTTER**  
**JOINT DETAIL**  
 N.T.S.



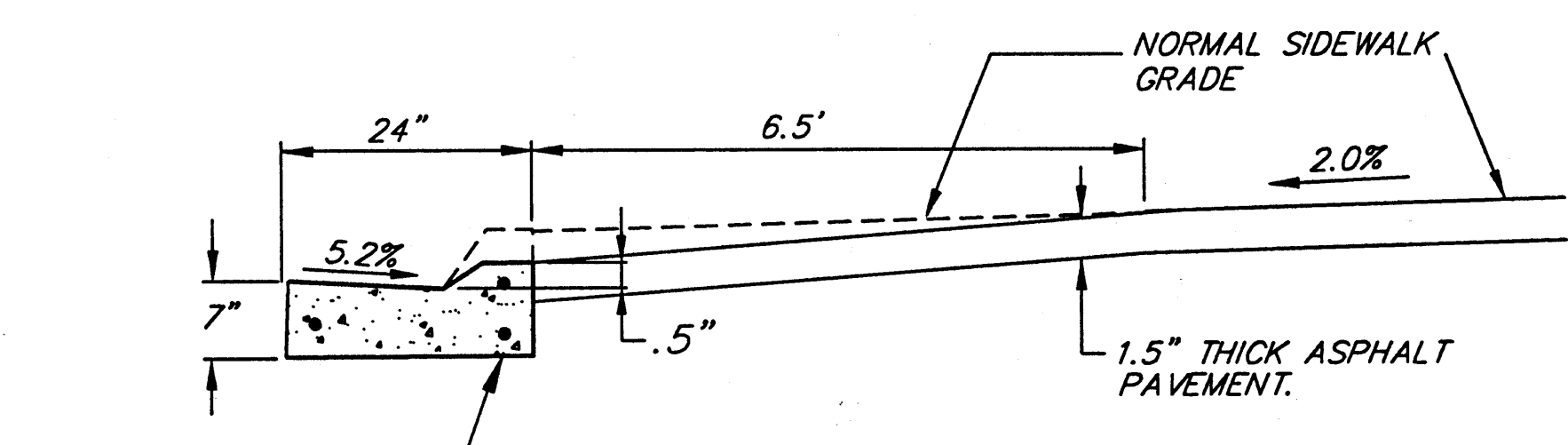
**SECTION B**  
 N.T.S.



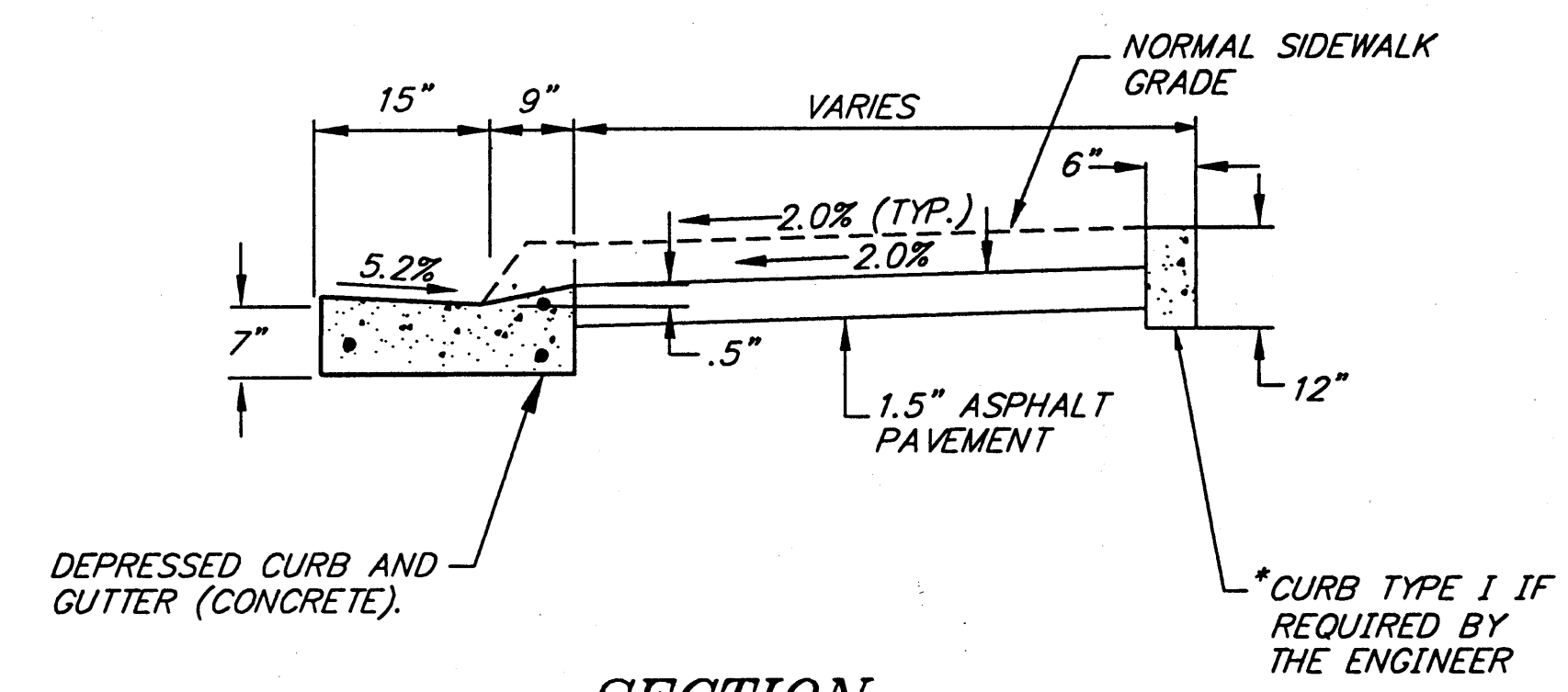
**SECTION C**  
 N.T.S.



**SECTION D**  
**DEPRESSED CURB**  
 N.T.S.



**SECTION F**  
 N.T.S.



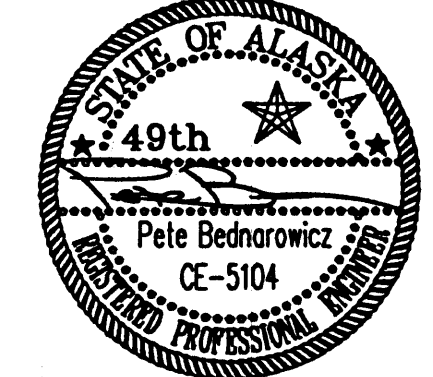
**SECTION E**  
**DEPRESSED CURB**  
 N.T.S.

\*PAID FOR AS CURB & GUTTER

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583  
 SIDEWALK DETAILS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *[Signature]* Date 9/17/04

DESIGNED BY: R. KRAEMER



CHECKED BY: Pete Bednorowicz  
 DRAWN BY: GDM Graphics

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

SIDEWALK DETAILS

PROJECT DESIGNATION NUMBER  
 HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
F2	46

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

ADDENDUM NUMBER  
 ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
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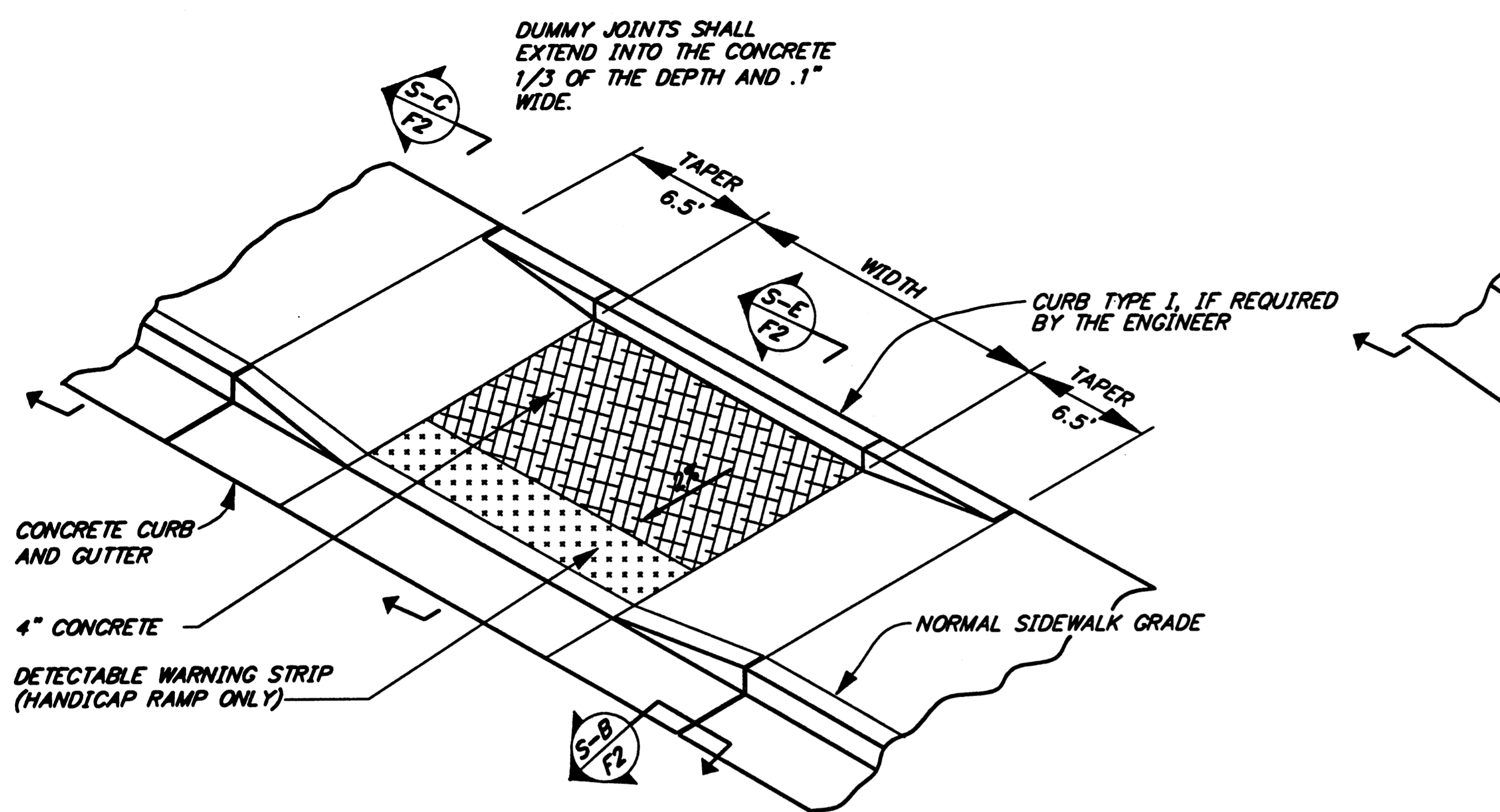
STATE OF ALASKA  
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JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
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SIDEWALK DETAILS

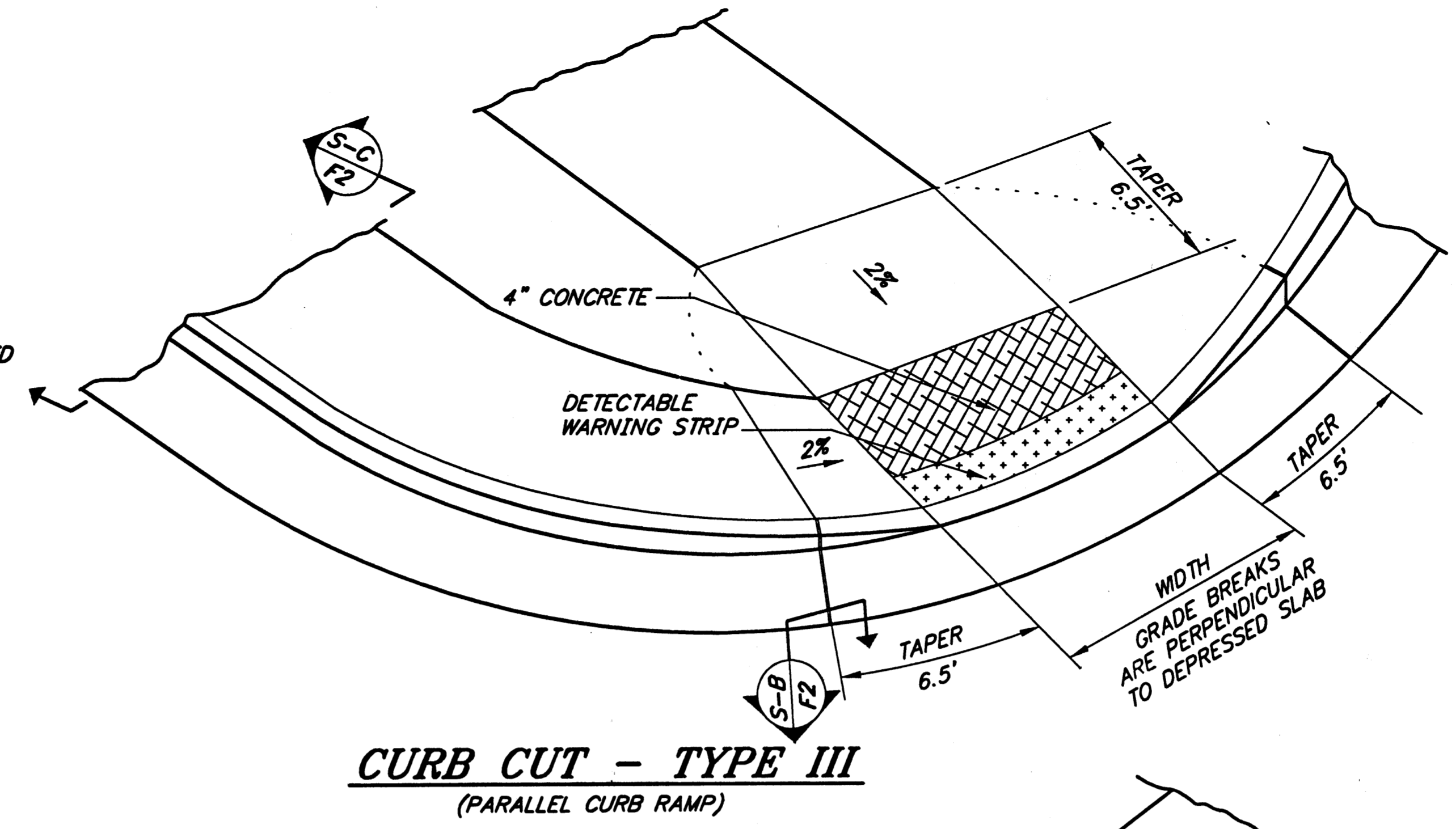
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 HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
F3	46

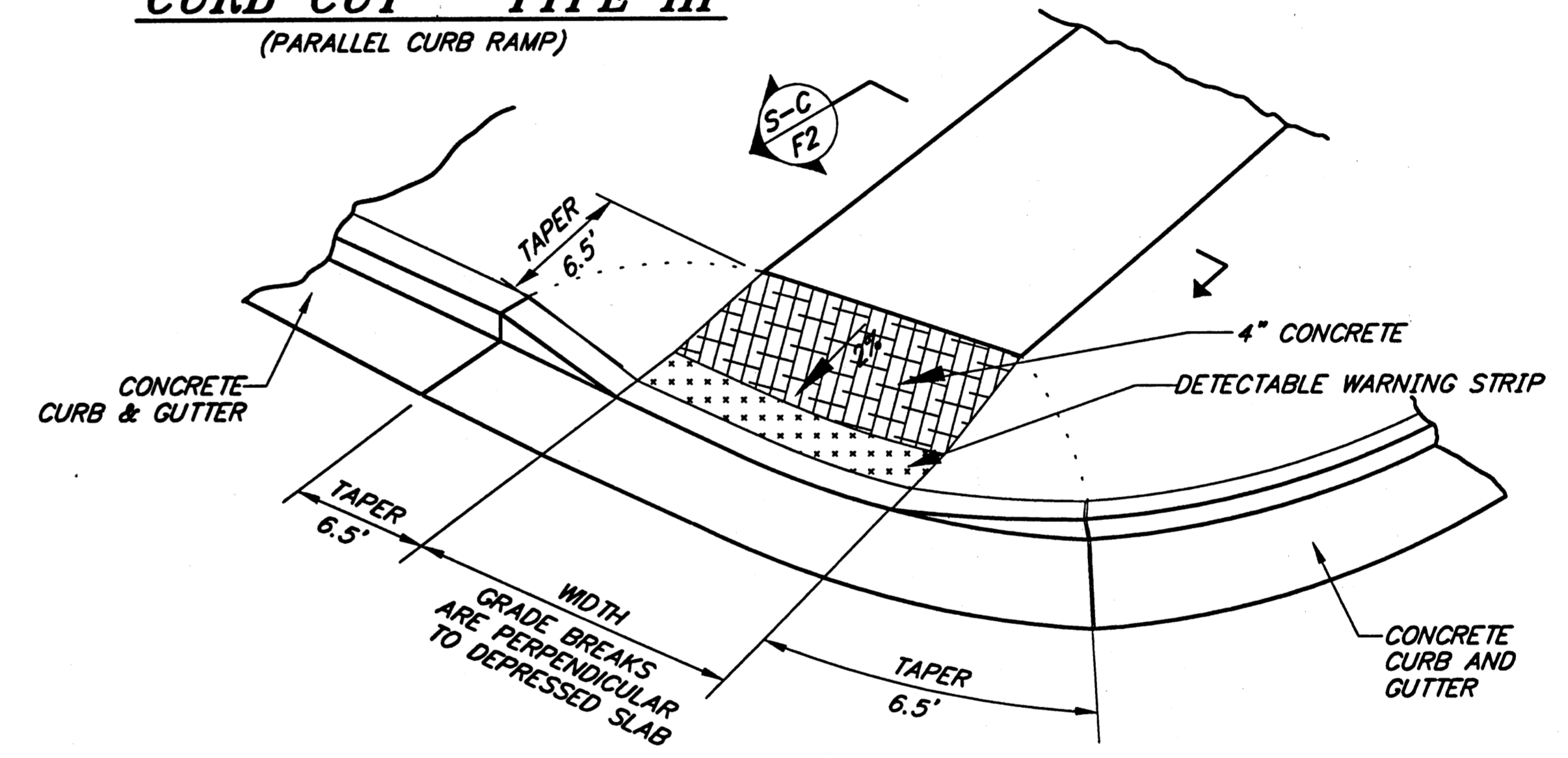


**CURB CUT DETAIL  
 TYPE I**  
 (A PERPENDICULAR CURB RAMP)  
 N.T.S.

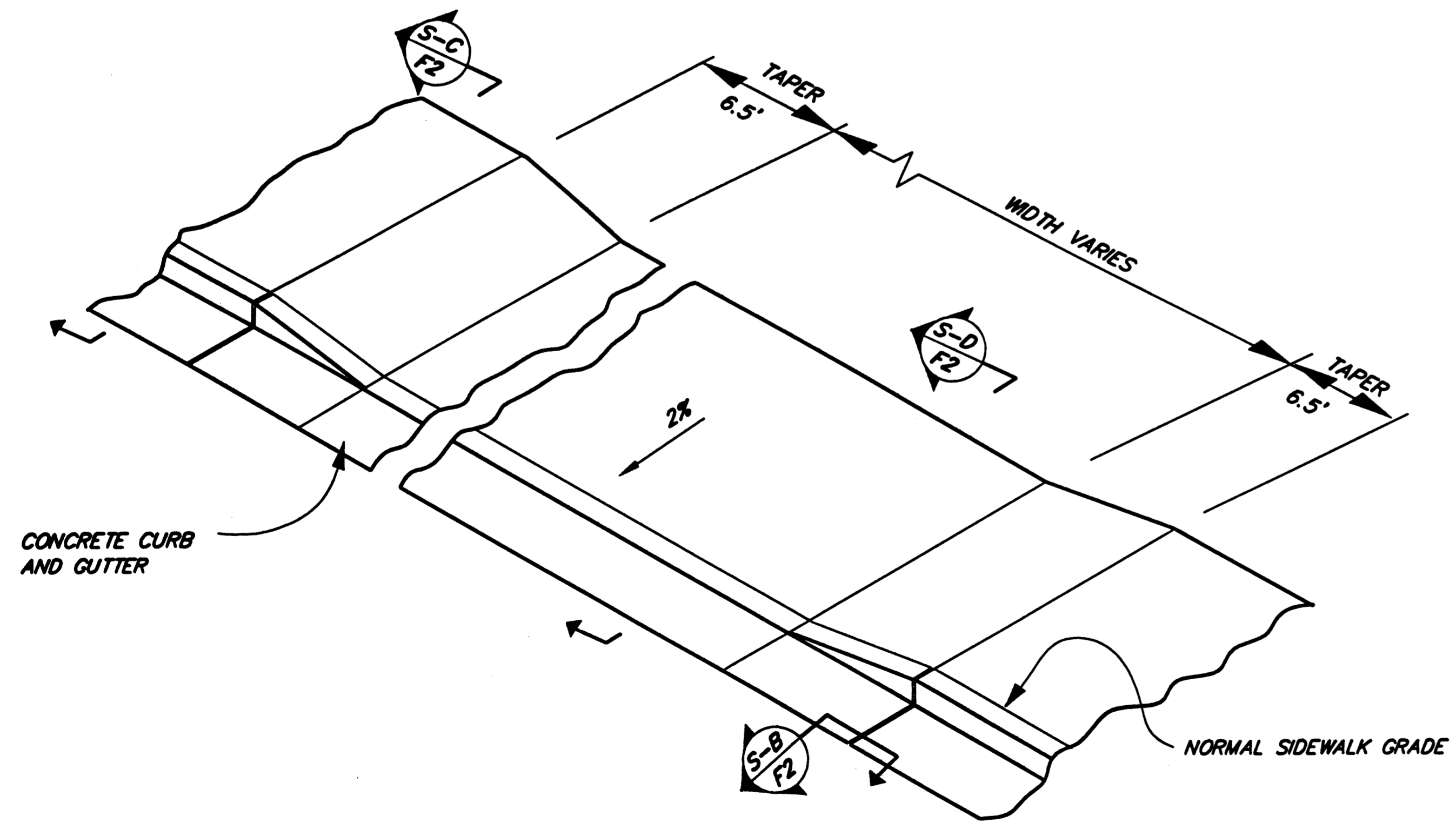
**NOTE:**  
 CURB CUT SUMMARIES IS ON SHEET D5.



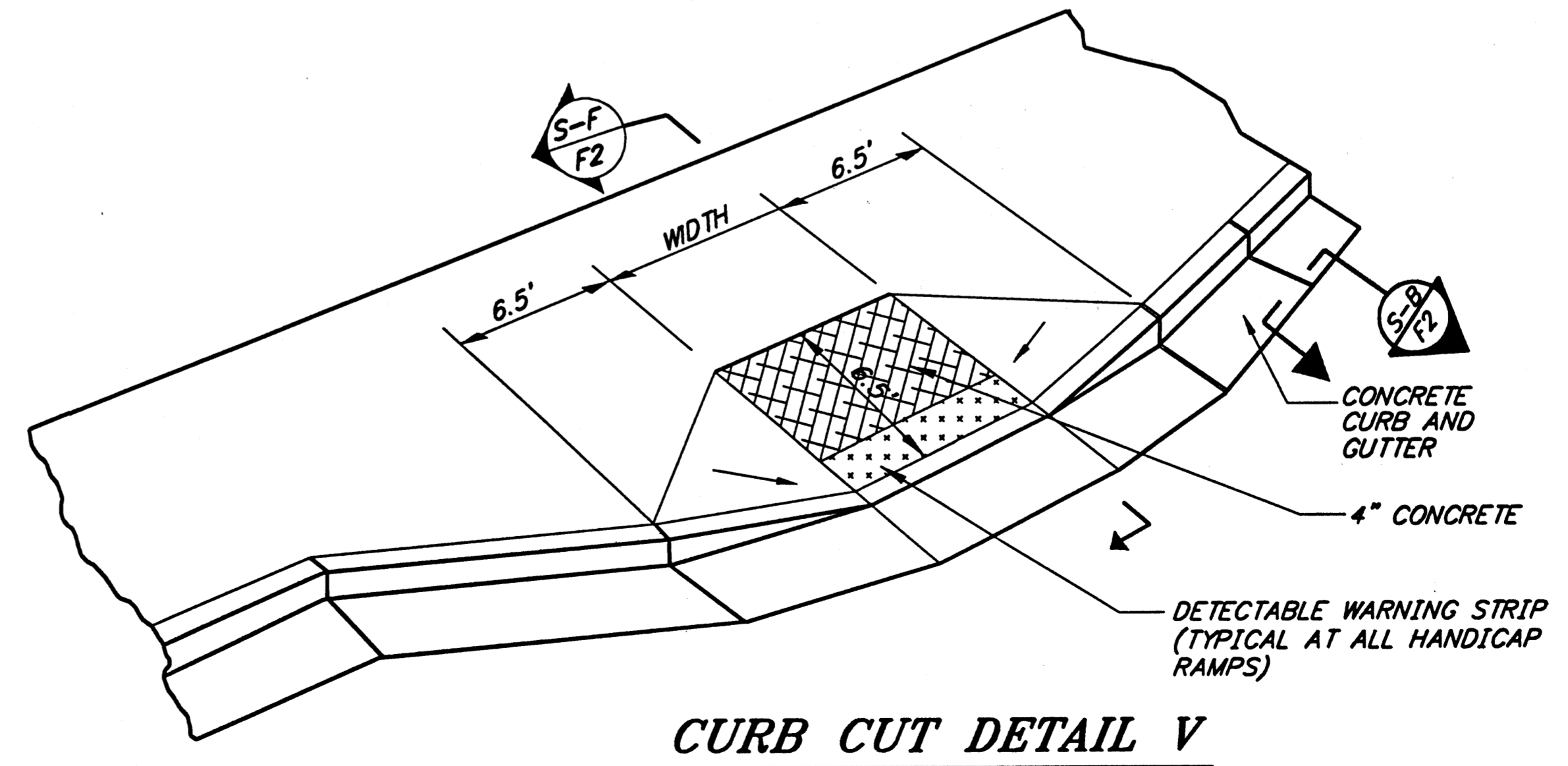
**CURB CUT - TYPE III**  
 (PARALLEL CURB RAMP)



**CURB CUT DETAIL  
 TYPE IV**



**DRIVEWAY  
 CURB CUT DETAIL  
 TYPE II**



**CURB CUT DETAIL V**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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RECORD OF REVISIONS

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JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
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MISCELLANEOUS DETAILS

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DRAWN BY: GDM Graphics

STATE OF ALASKA  
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JNU-LOOP RD/ VALLEY  
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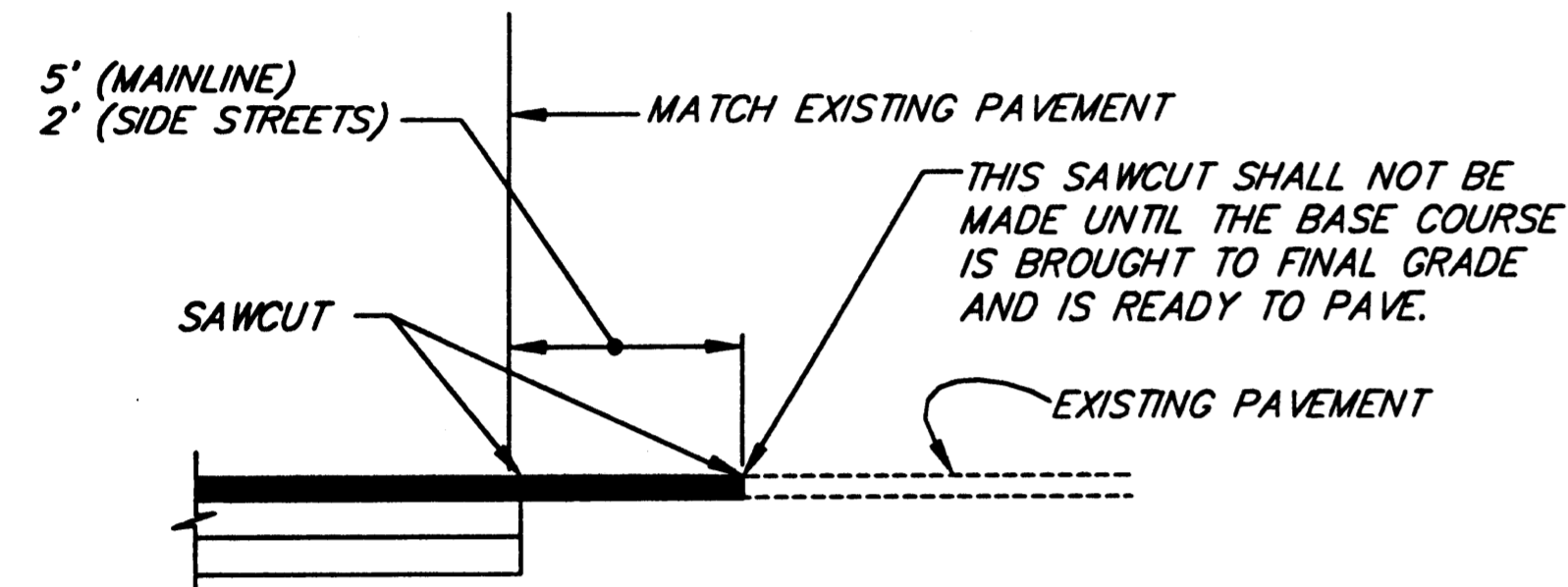
MISCELLANEOUS DETAILS

PROJECT DESIGNATION NUMBER

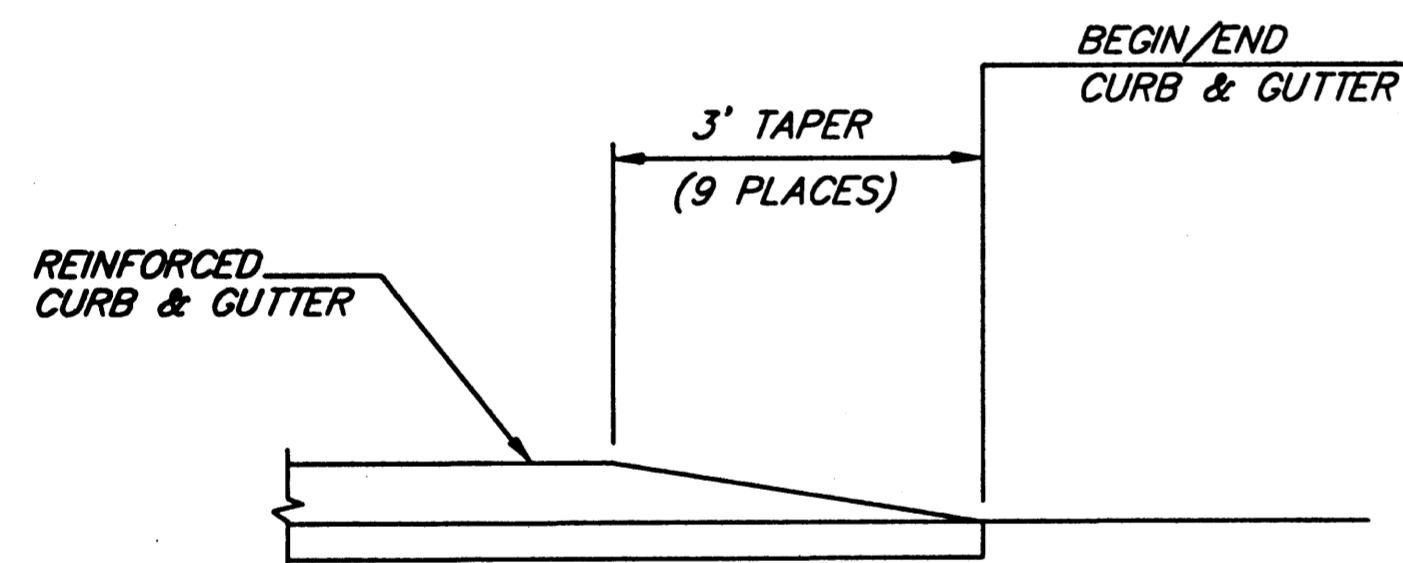
HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003

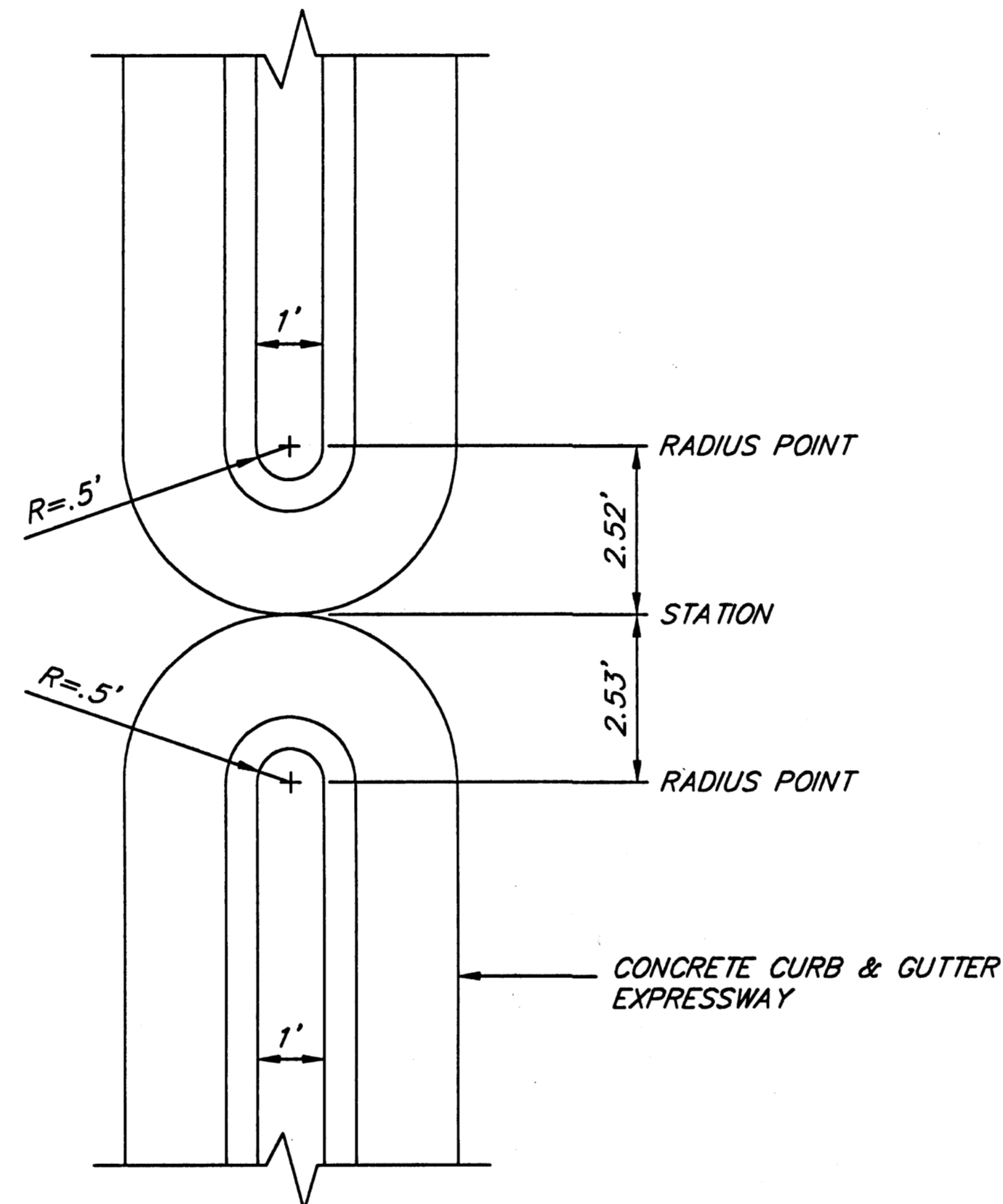
SHEET NUMBER	TOTAL SHEETS
F4	46



**PAVEMENT JOINT DETAIL**

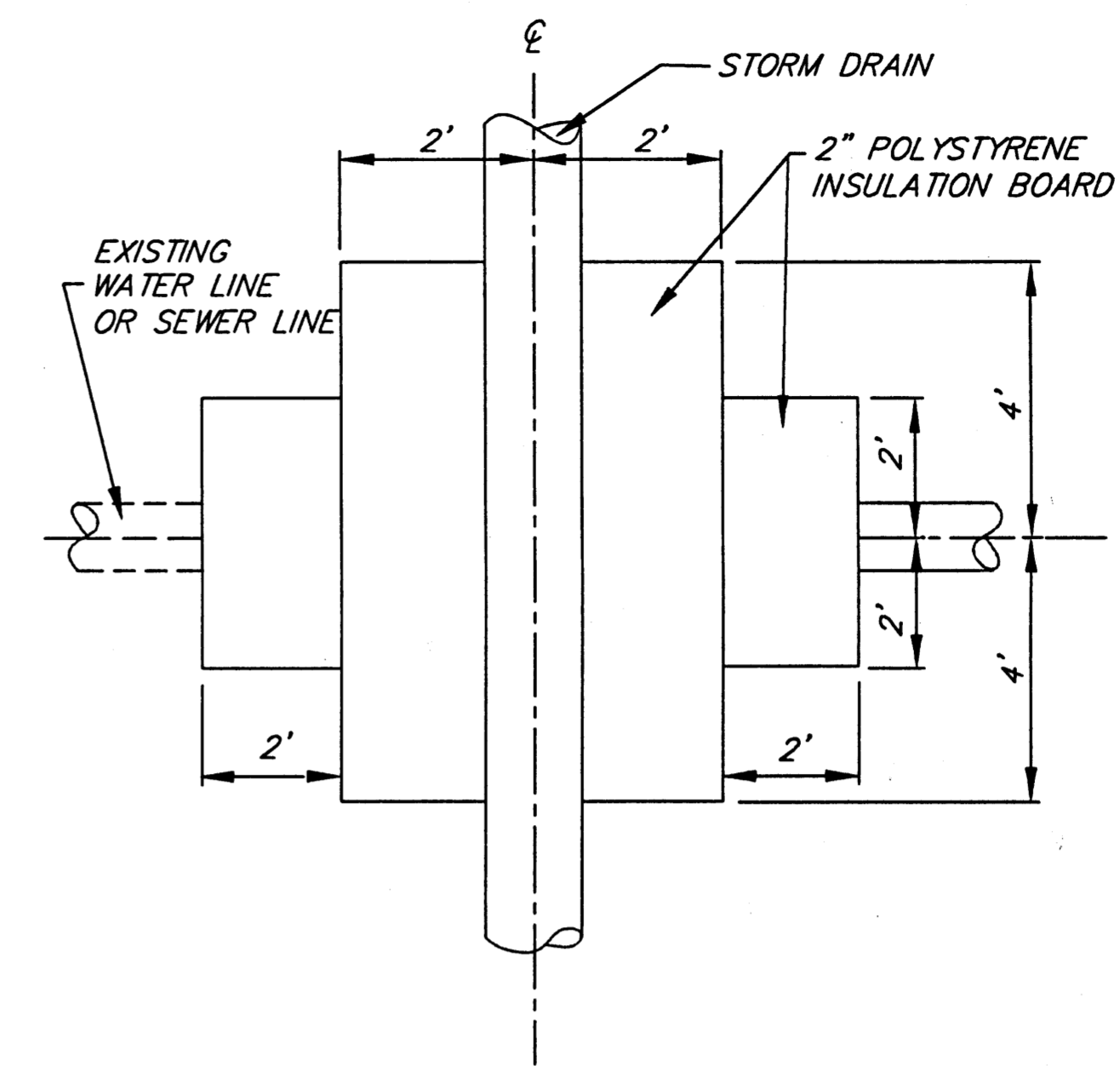


**CURB AND GUTTER END TREATMENT**

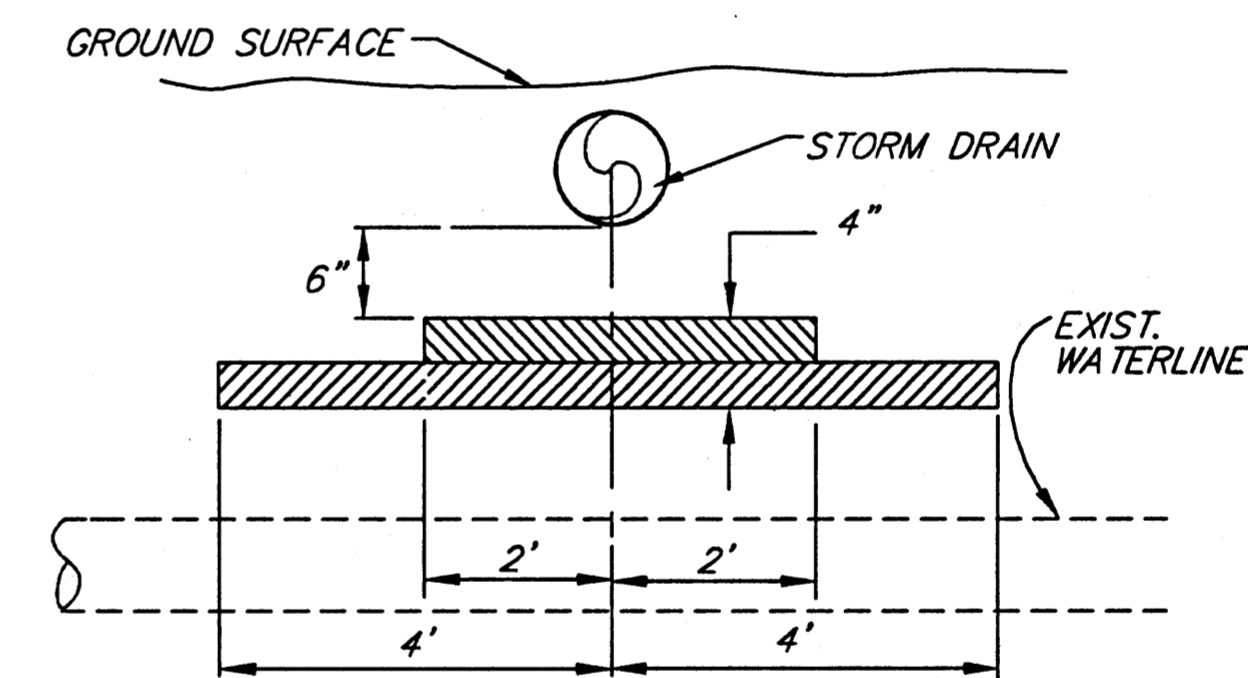


**CURB OPENING DETAIL**

STATION "0" 105+33.42



**PLAN**  
N.T.S.



**SECTION**  
N.T.S.

**WATERLINE INSULATION  
AT CULVERT DETAIL**

**INSULATION NOTES:**

1. INSTALL INSULATION AS SHOWN, FOR SEWER LINE IF LESS THAN 3.8' SEPARATION, AND FOR WATER LINE IF LESS THAN 5' SEPARATION, BETWEEN STORM DRAIN AND LINE.
2. WRAP AROUND INSULATION WITH R-FACTOR EQUAL TO 4" RIGID BOARD MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.

NOTE: DO NOT SCALE FROM THESE PLANS--USE DIMENSIONS

ADDENDUM NUMBER

ATTACHMENT NUMBER

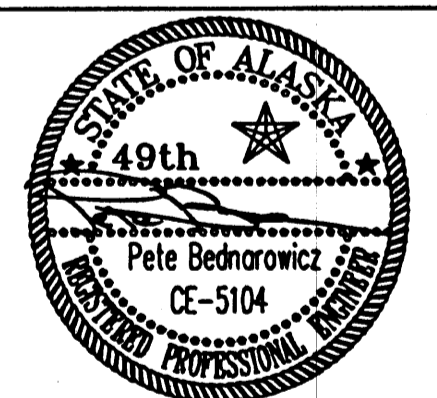
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
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MISCELLANEOUS DETAILS

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STATE OF ALASKA  
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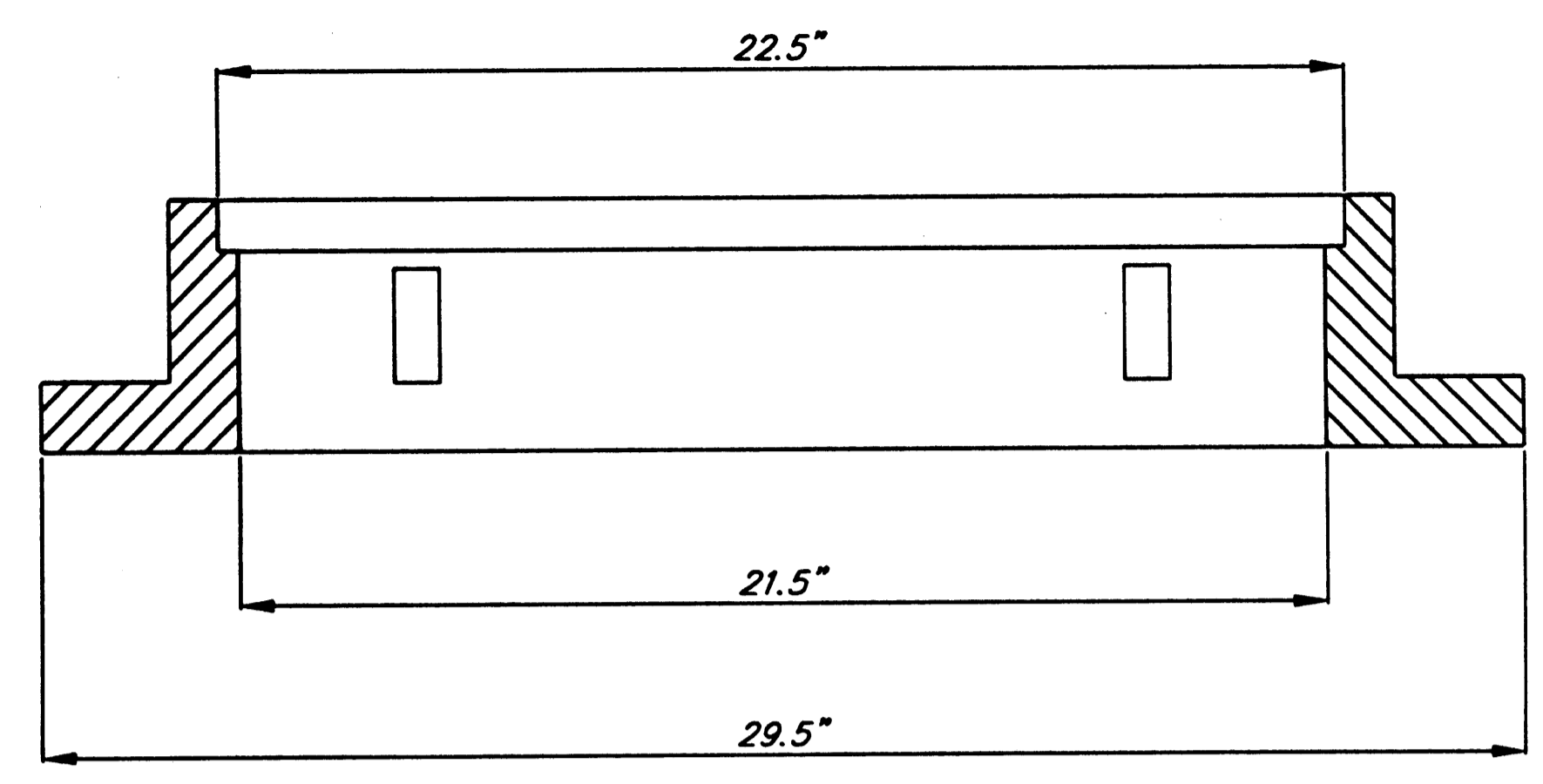
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PROJECT DESIGNATION NUMBER

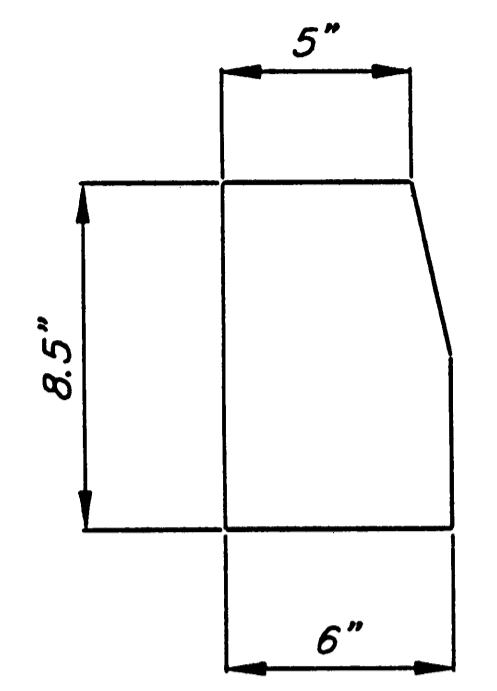
HRO-0966(24) / 68583

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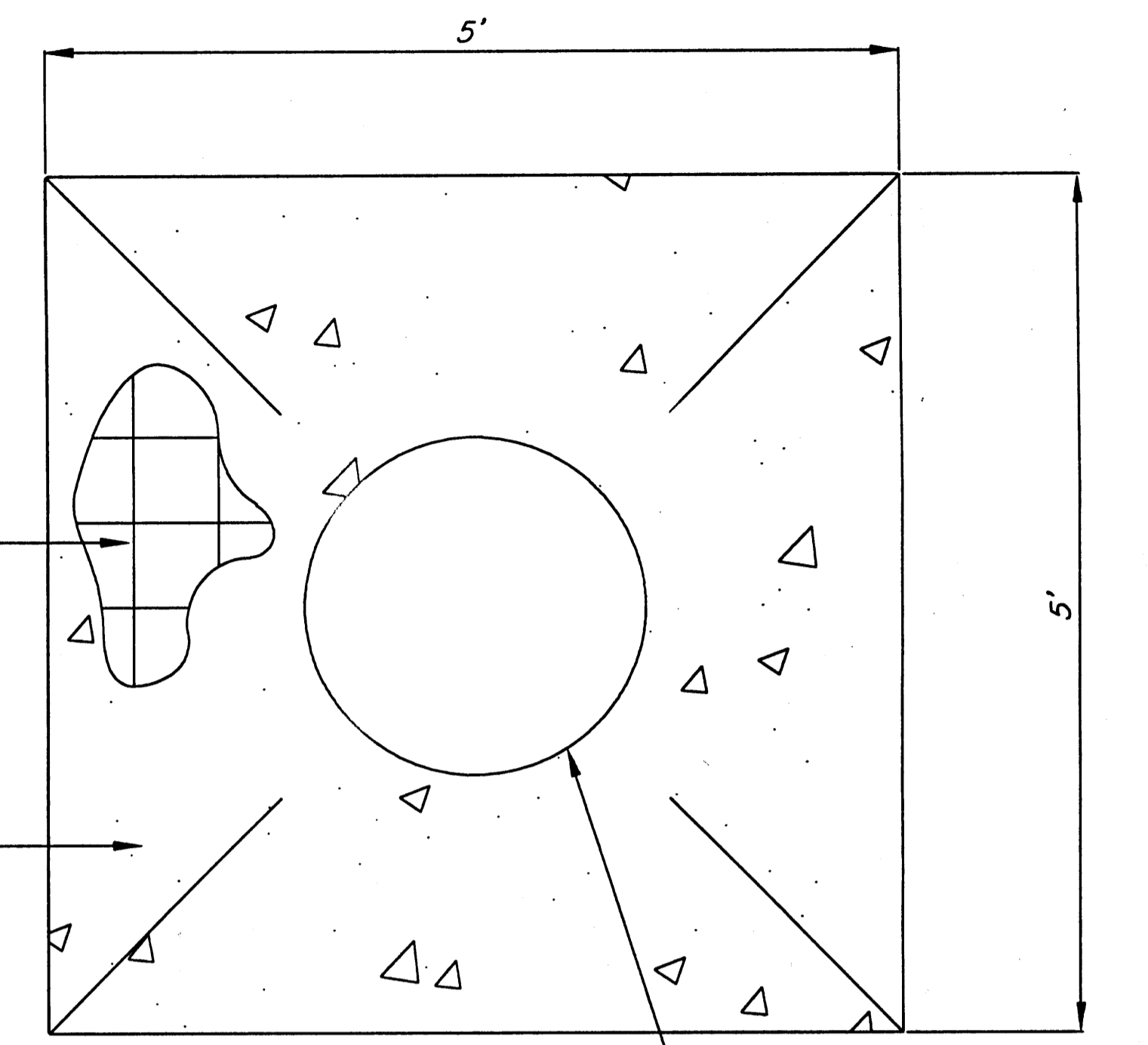


FRONT VIEW



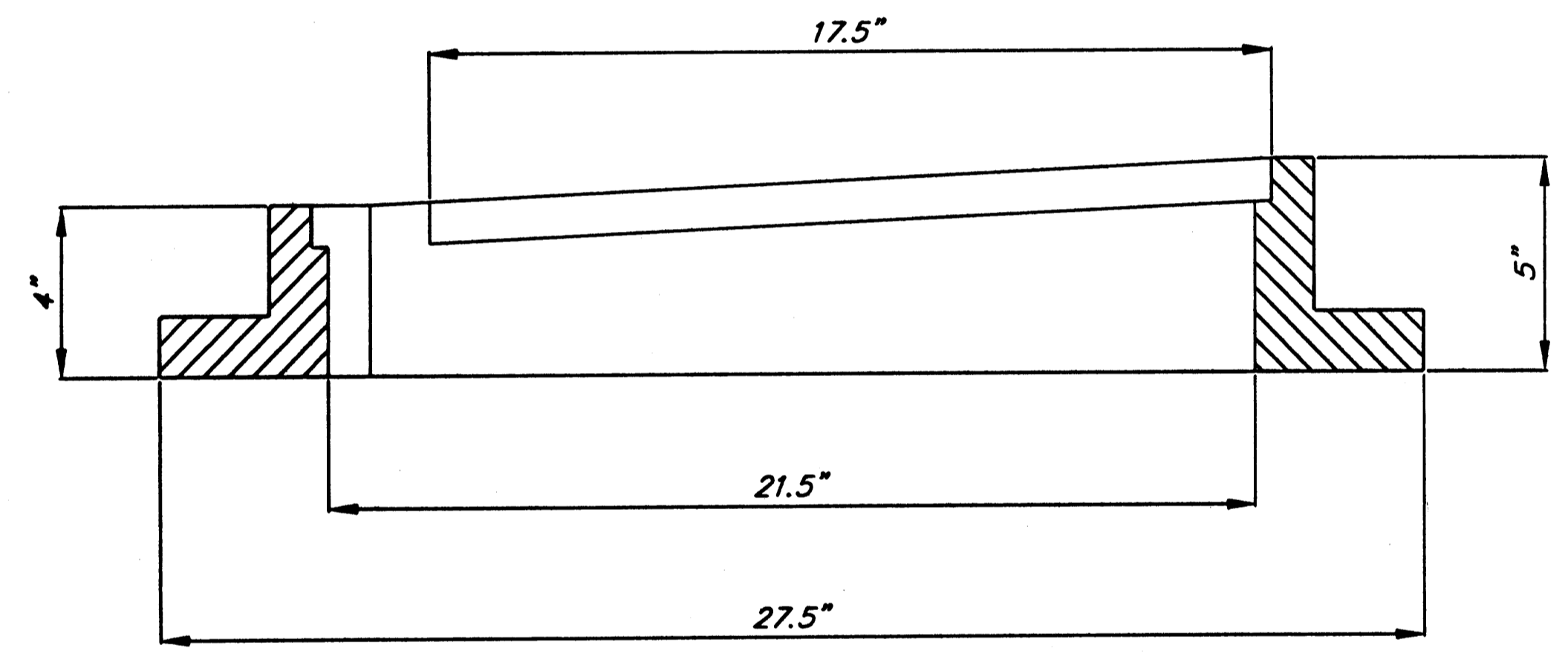
TYPE A HOOD

6"x6" No. 10/10  
 WIRE MESH REINFORCEMENT

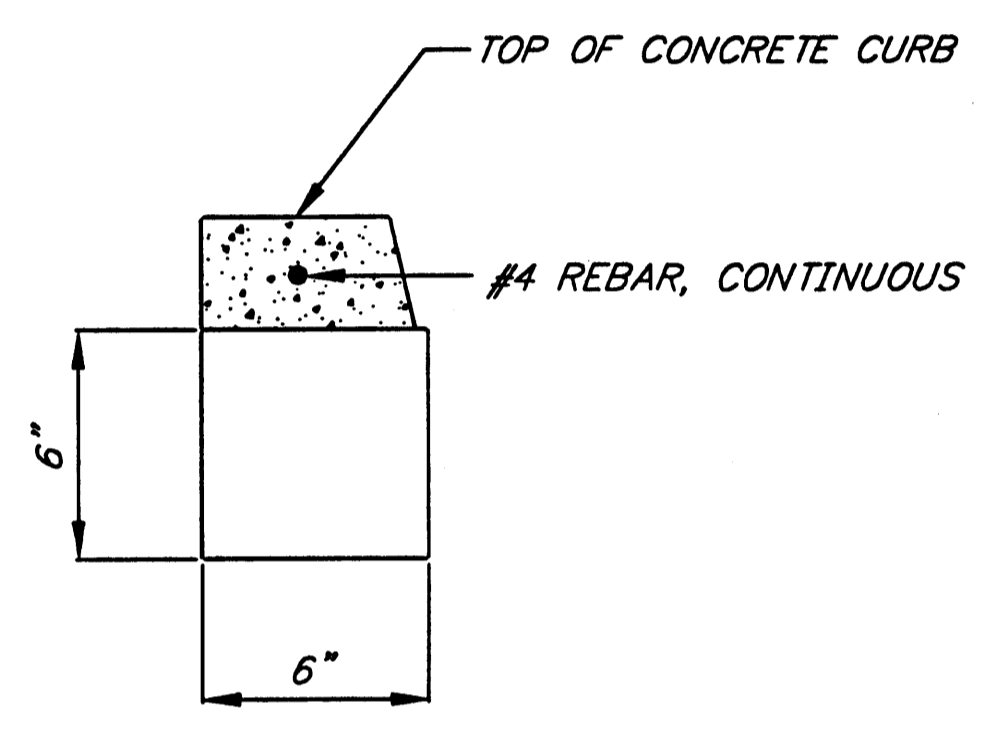


PLAN VIEW

STANDARD 24" DIAMETER  
 FRAME AND GRATE

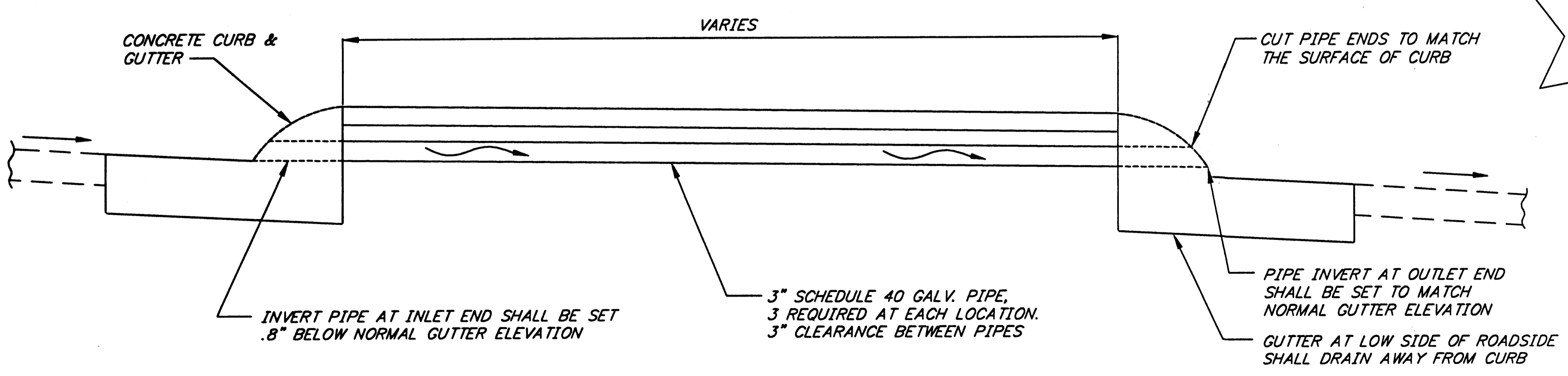


SIDE VIEW

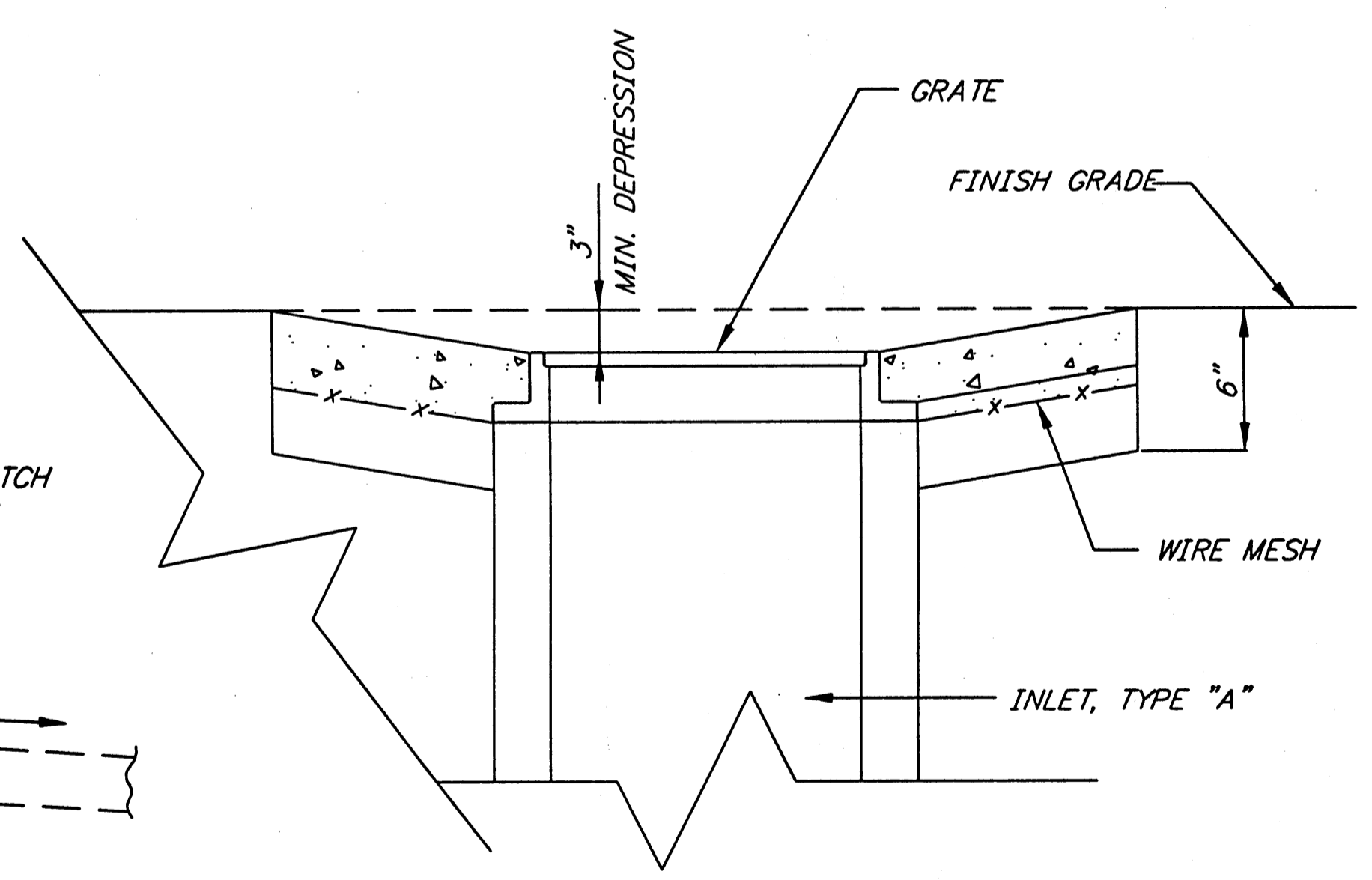


TYPE B HOOD

CONCRETE PAD

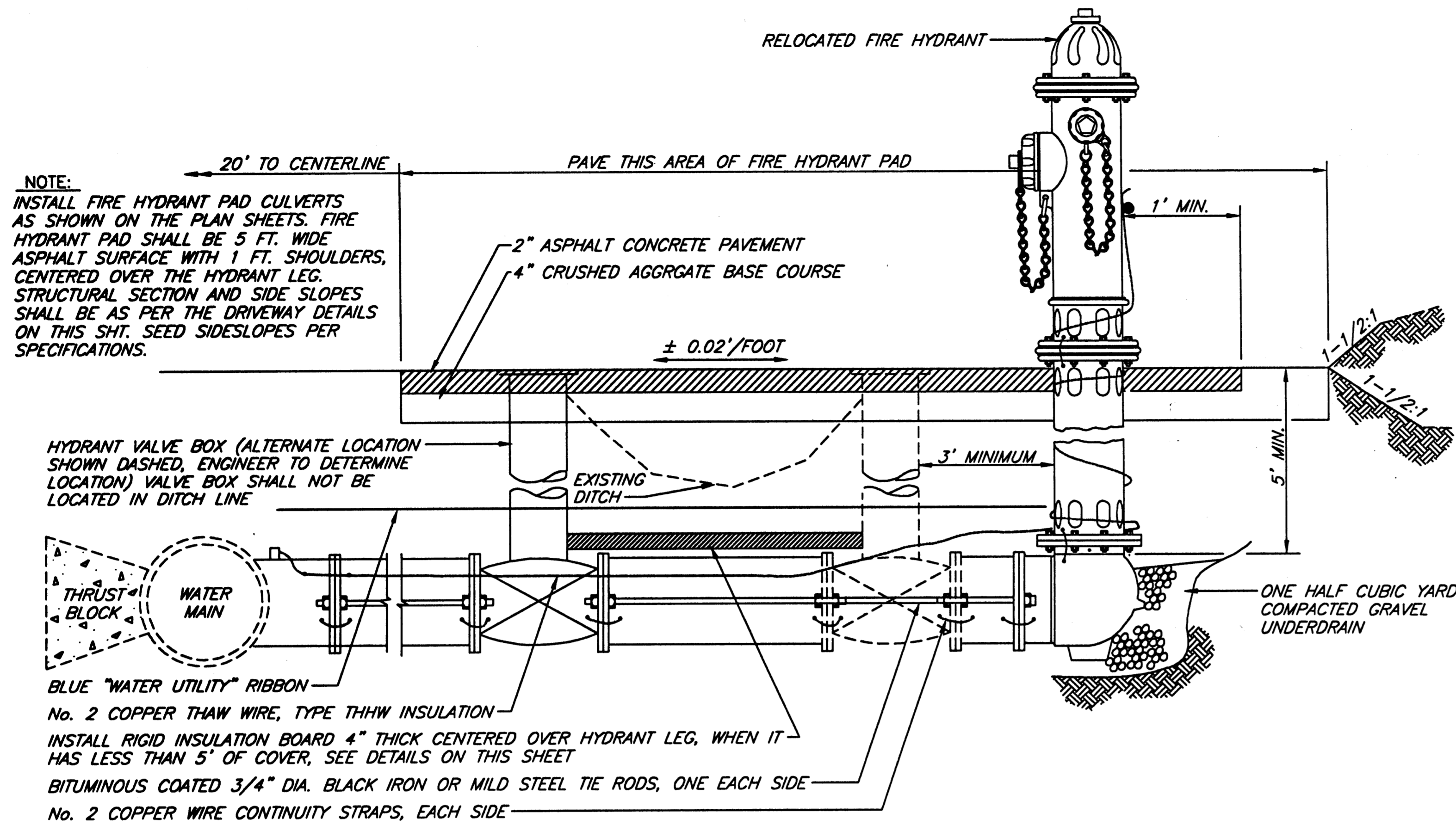


CURB DRAIN PIPE



ELEVATION VIEW

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



**NOTE:**  
 INSTALL FIRE HYDRANT PAD CULVERTS AS SHOWN ON THE PLAN SHEETS. FIRE HYDRANT PAD SHALL BE 5 FT. WIDE ASPHALT SURFACE WITH 1 FT. SHOULDERS, CENTERED OVER THE HYDRANT LEG. STRUCTURAL SECTION AND SIDE SLOPES SHALL BE AS PER THE DRIVEWAY DETAILS ON THIS SHT. SEED SIDESLOPES PER SPECIFICATIONS.

HYDRANT VALVE BOX (ALTERNATE LOCATION SHOWN DASHED, ENGINEER TO DETERMINE LOCATION) VALVE BOX SHALL NOT BE LOCATED IN DITCH LINE

THRUST BLOCK  
 WATER MAIN

BLUE "WATER UTILITY" RIBBON

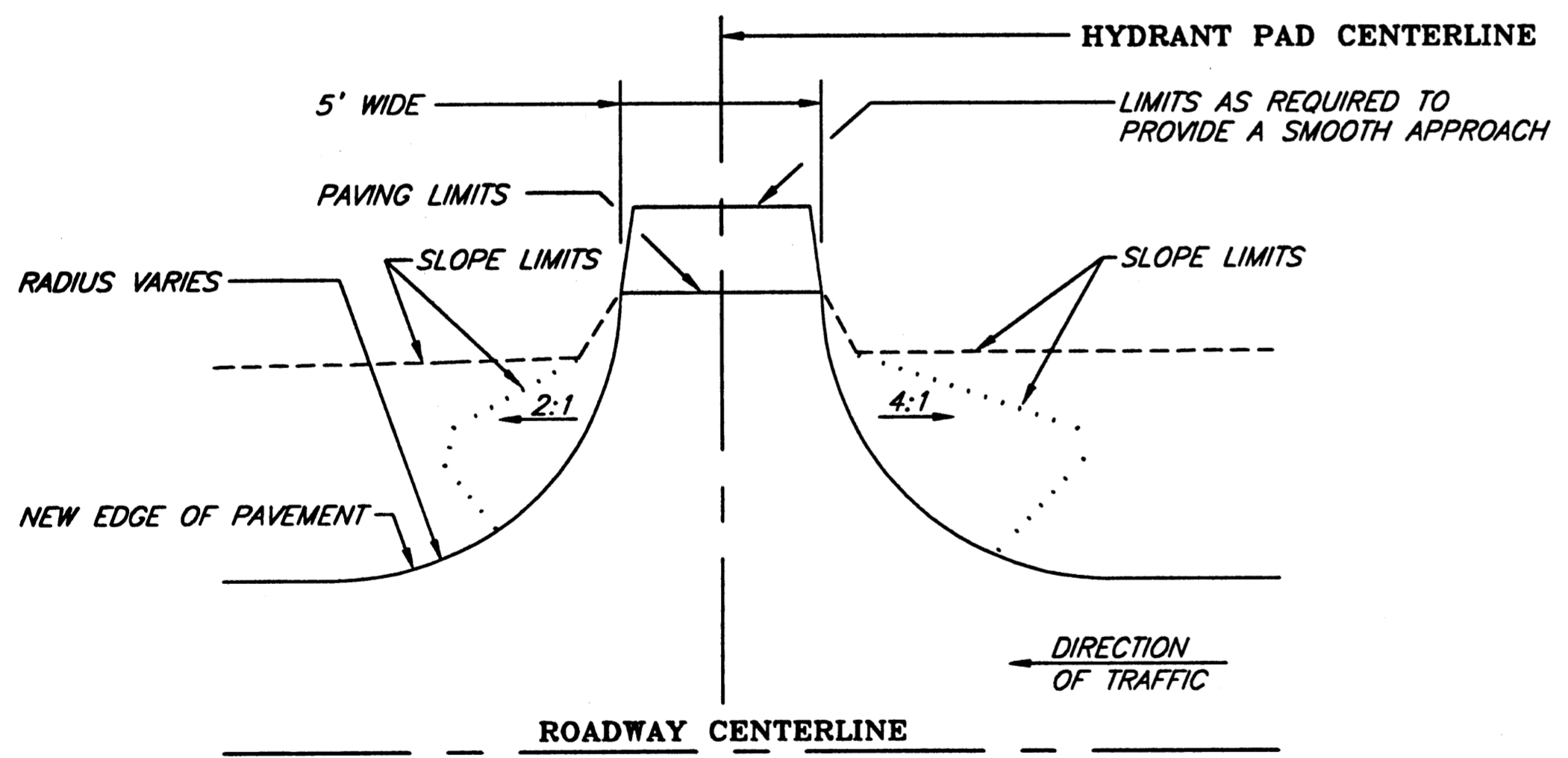
No. 2 COPPER THAW WIRE, TYPE THHW INSULATION

INSTALL RIGID INSULATION BOARD 4" THICK CENTERED OVER HYDRANT LEG, WHEN IT HAS LESS THAN 5" OF COVER, SEE DETAILS ON THIS SHEET

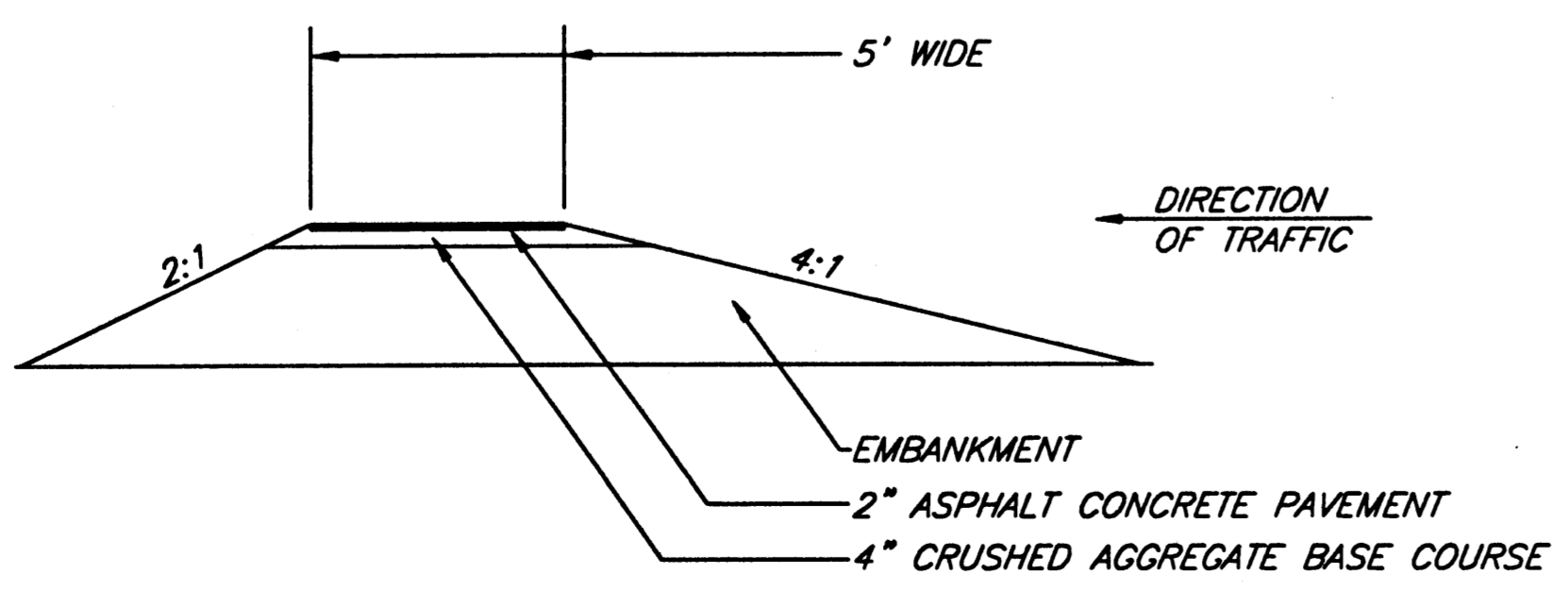
BITUMINOUS COATED 3/4" DIA. BLACK IRON OR MILD STEEL TIE RODS, ONE EACH SIDE

No. 2 COPPER WIRE CONTINUITY STRAPS, EACH SIDE

**FIRE HYDRANT AND VALVE BOX RELOCATION AND FIRE HYDRANT ACCESS PAD DETAILS**

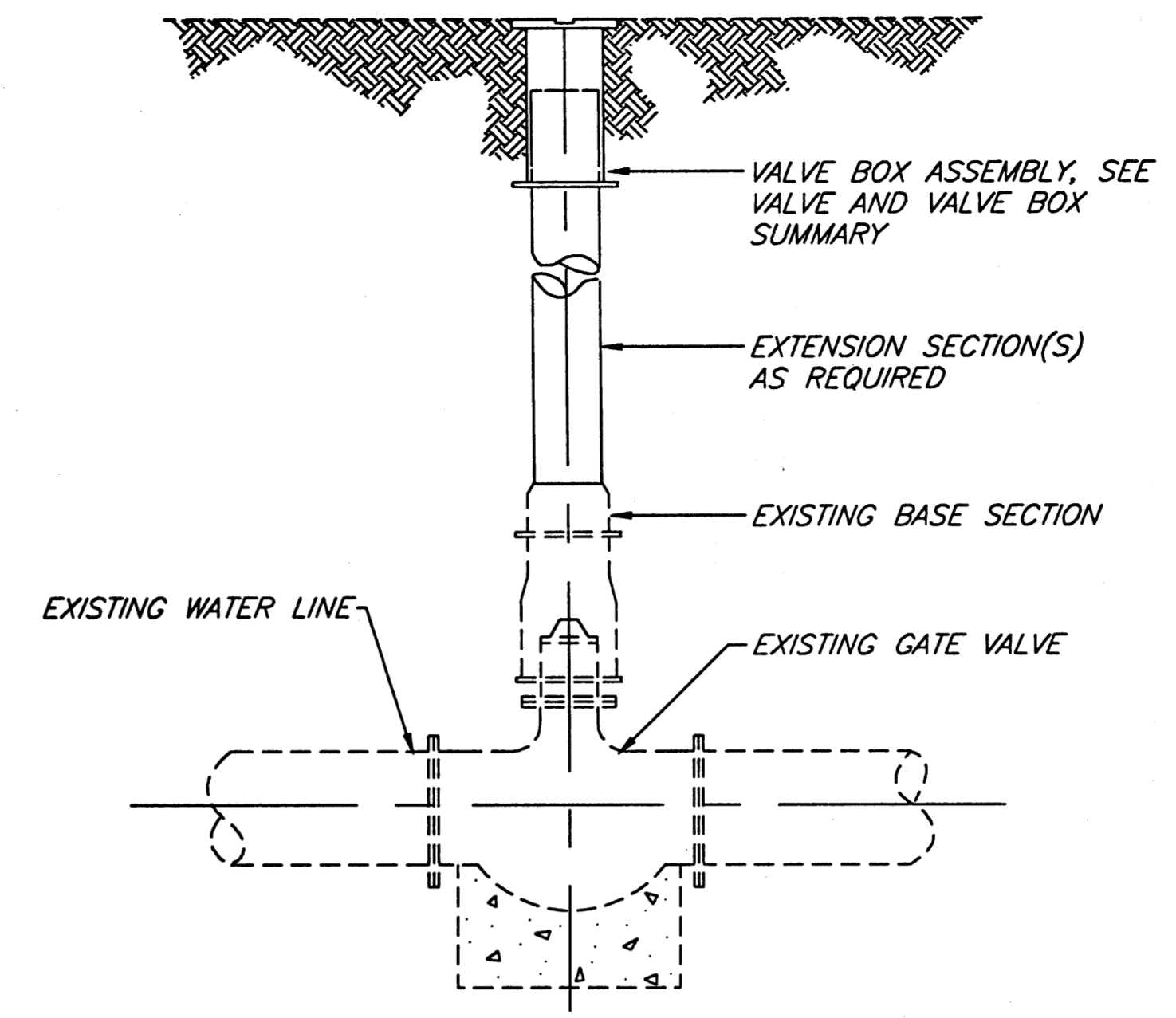


**PLAN**

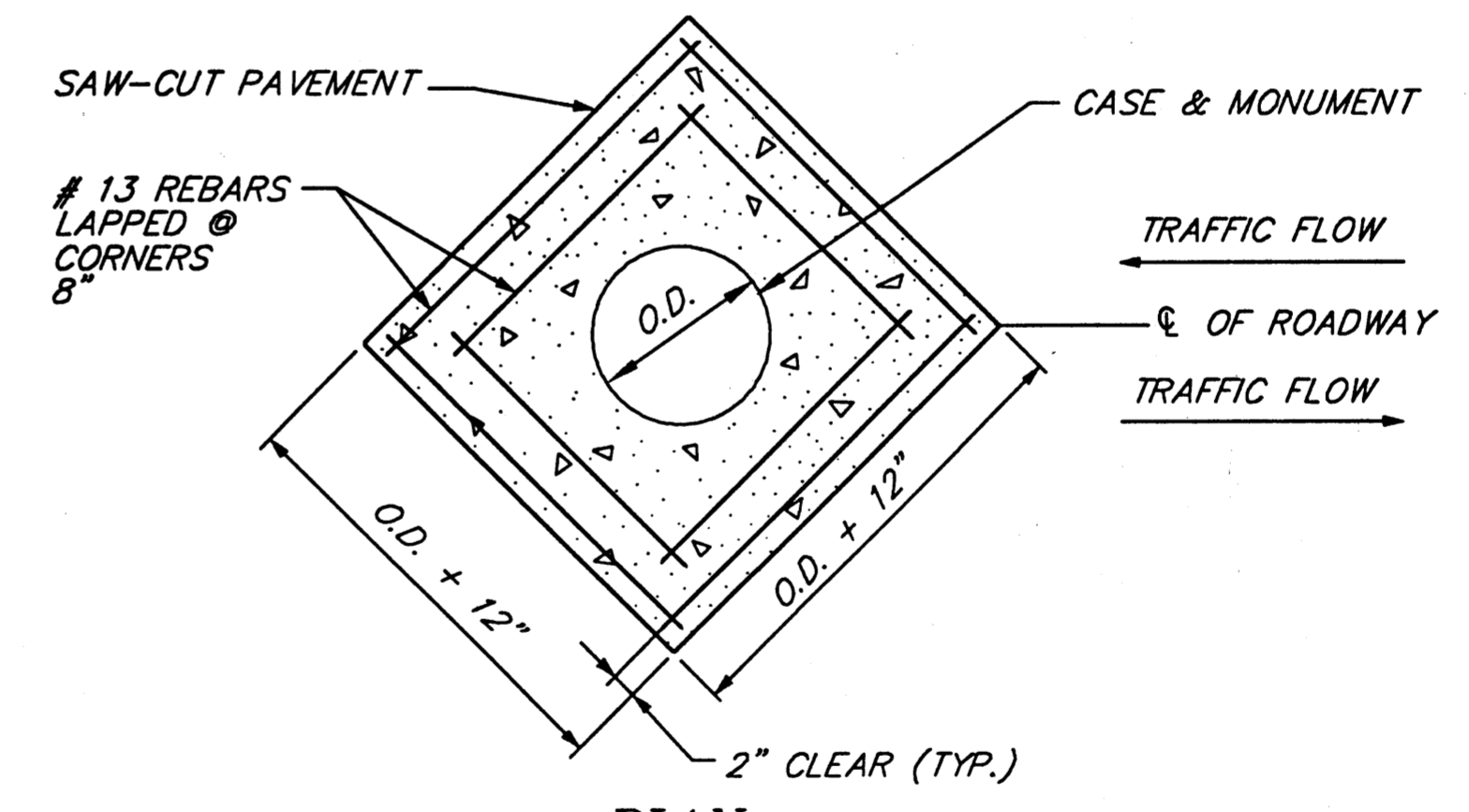


**SECTION**

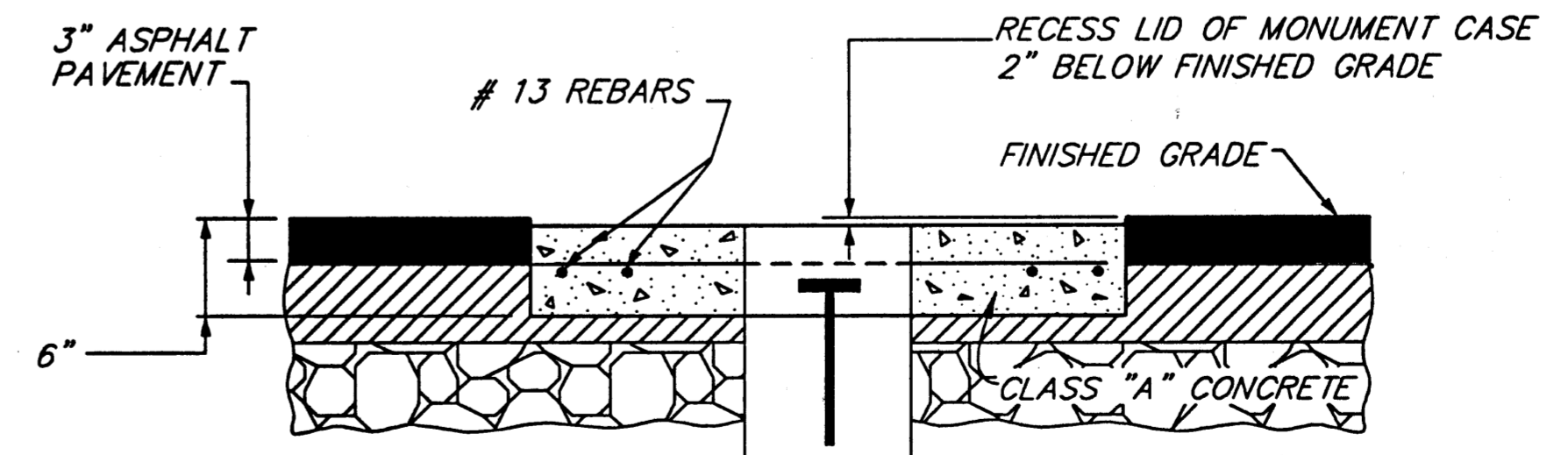
**APPROACH AND DRIVEWAY DETAILS**



**VALVE BOX ADJUSTMENT DETAIL**



**PLAN**



**SECTION**

**MONUMENT ENCASEMENT DETAIL**

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 Tue, 29/Jul/03 10:24AM rksnyder  
 PLOT:  
 PSPACE 1=1(F) OR MSPACE 1=1(F)

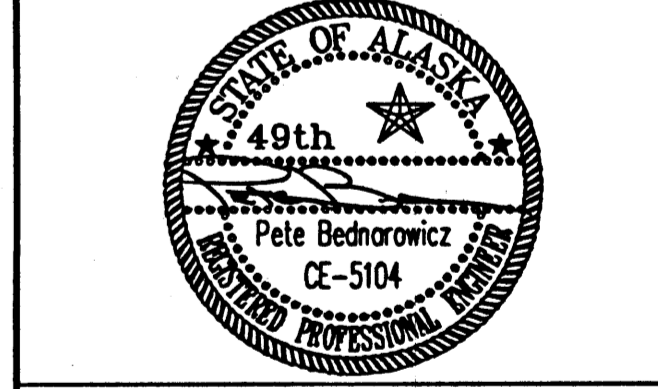
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/ VALLEY BLVD/MENDENHALL BLVD SIGNAL PROJECT NO. 68583

MISCELLANEOUS DETAILS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the work as constructed.  
 PE *[Signature]* Date 7/17/03

DESIGNED BY: R. KRAEMER



CHECKED BY: P. BEDNAROWICZ  
 DRAWN BY: D. STEVENS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

JNU-LOOP RD/ VALLEY BLVD/MENDENHALL BLVD SIGNAL  
 PROJECT NO 68583  
 MISCELLANEOUS DETAILS

PROJECT DESIGNATION NUMBER:

HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
F6	46

**MANHOLE NOTES:**

1. MANHOLE ADJUSTMENT SHALL BE MADE WITH GRADE RINGS NOT EXCEEDING 12" TOTAL HEIGHT BETWEEN BOTTOM OF MANHOLE FRAME AND TOP OF MANHOLE CONE.
2. NEW STEP(S) AS DETAILED IN STD. DRAWINGS D-20.02 SHALL BE INSTALLED ON THE EXISTING MANHOLE IF THE FIRST STEP EXCEED 3' FROM THE TOP OF MANHOLE FRAME, FOR MANHOLE RECONSTRUCTION/ADJUSTMENT.
3. RUNGS TO BE PLACED 12" O.C. ON UNOBSTRUCTED SIDE OF MANHOLE 18" MAXIMUM FROM BOTTOM OF MANHOLE AND 6" MAXIMUM FROM TOP OF BARREL.
4. ANY RECONSTRUCTED OR ADJUSTED MANHOLES MUST CONFORM TO STANDARD DIMENSIONS.
5. CONCRETE ENCASEMENT IS NOT REQUIRED IF MANHOLE, INLETS OR VALVE BOX IS LOCATED IN THE SIDEWALK.
6. USE 6" LAYER OF BEDDING UNDER ALL MANHOLES AND INLETS.
7. ALL PIPES TO EXTEND 2" INTO MANHOLE.
8. BLOCKOUTS TO BE FORMED.
9. STORM DRAIN MANHOLE SHALL BE 48" INSIDE DIAMETER FOR TYPE I.
10. ALL STORM DRAIN INLETS & MANHOLES SHALL HAVE 18" SUMP.
11. REFER TO STD DWGS D-26.02 & D-35.00 FOR DETAILS NOT SHOWN.

STD. DWG. D-23.00 GRATE ILLUSTRATED, OTHER GRATE STYLES AS REQUIRED PER D-22.00 & D-24.00

RISER (AS REQ'D)

REDUCING SLAB AS REQ'D. (SAME AS DETAILED STD. DWG. D-35.00 EXCEPT REBAR AS SPECIFIED THIS SHEET)

BARREL DEPTH VARIES

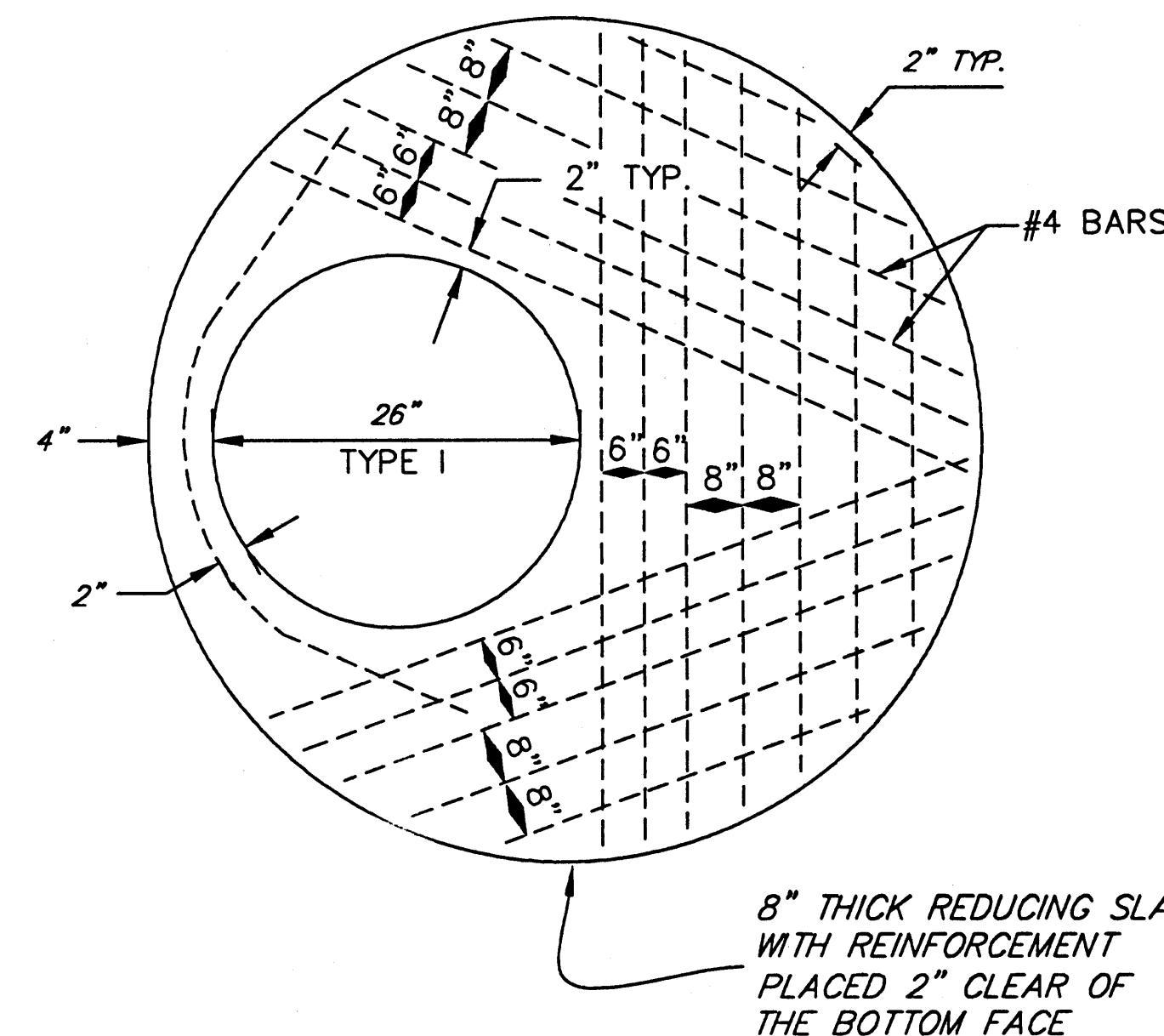
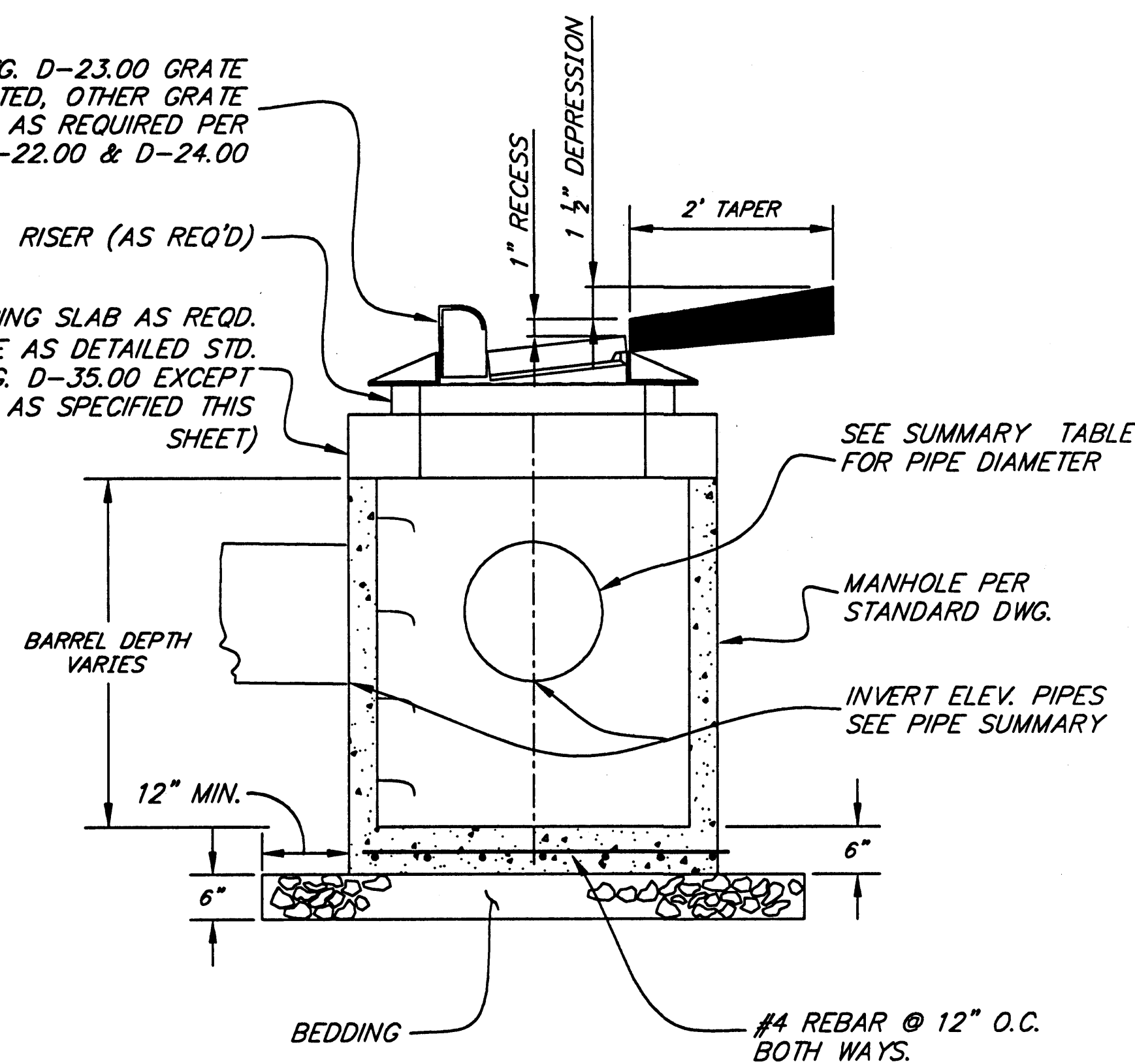
12" MIN.

6"

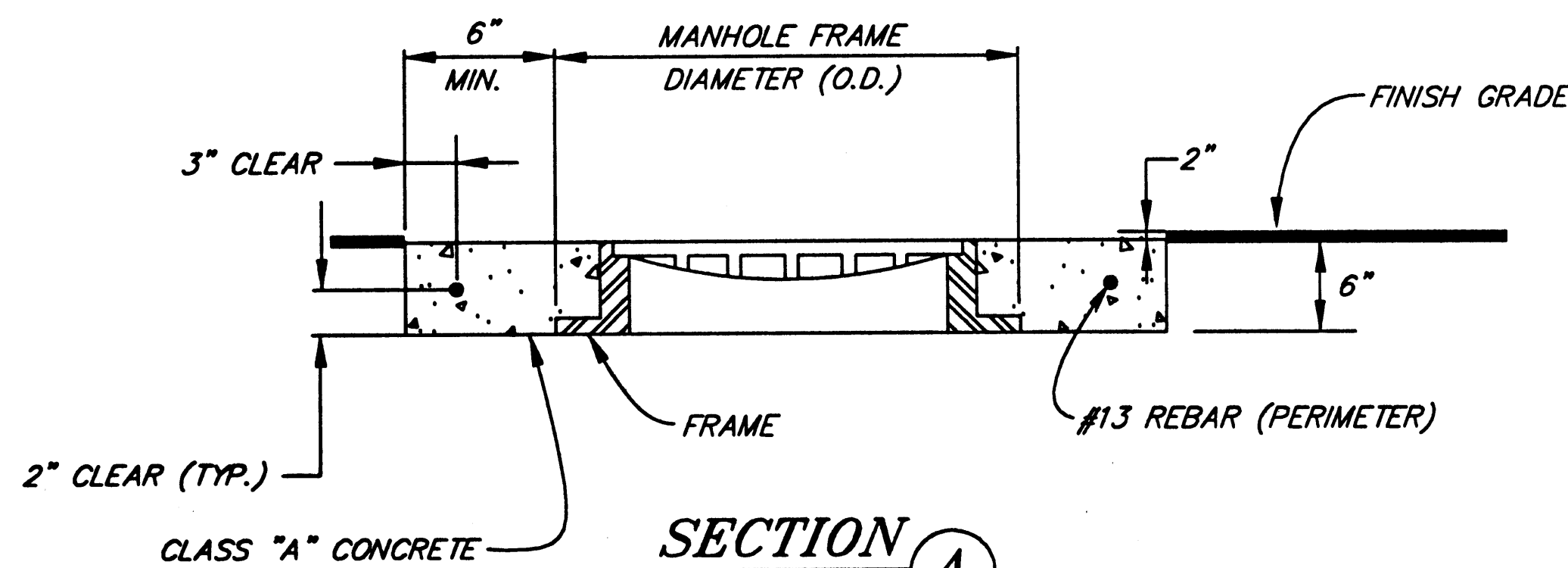
BEDDING

#4 REBAR @ 12" O.C. BOTH WAYS.

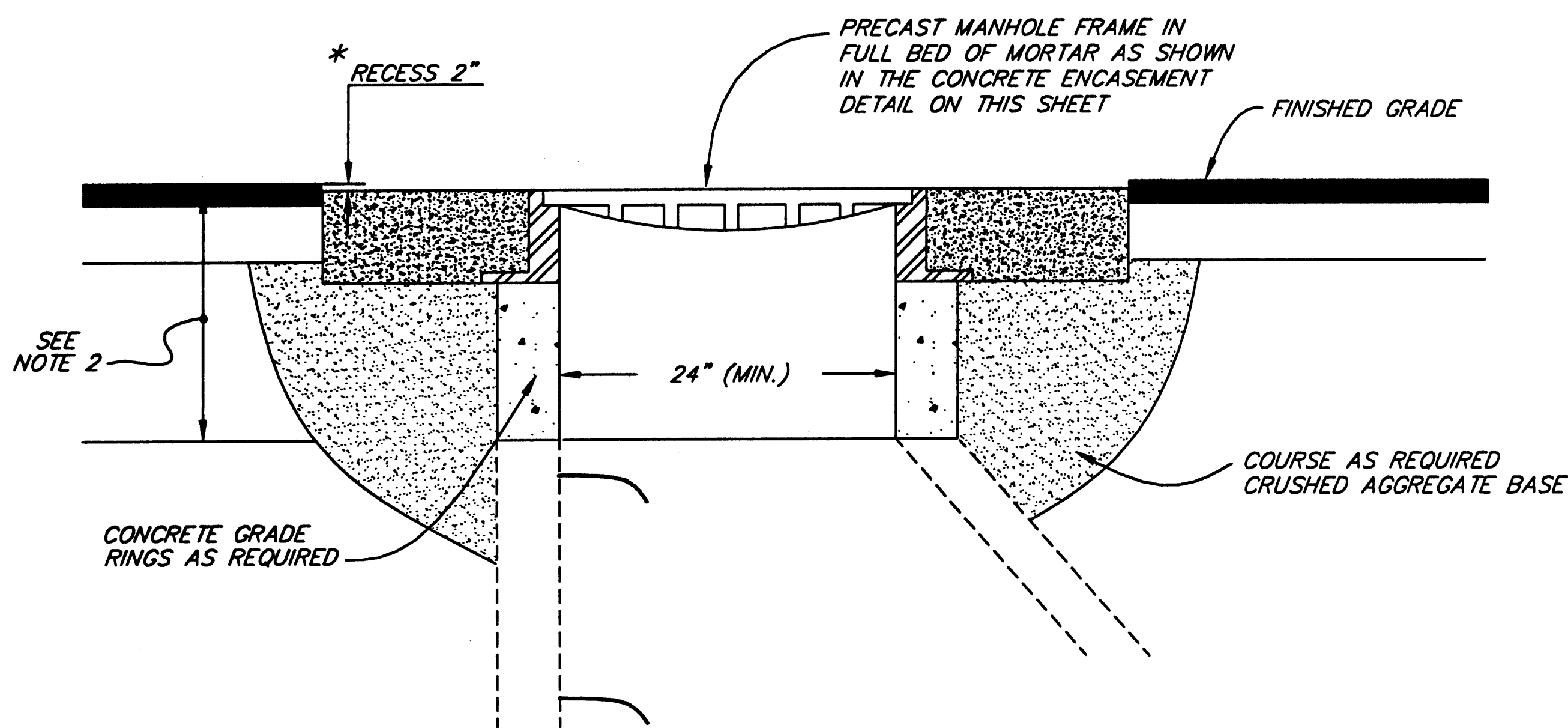
**MANHOLE DETAIL**



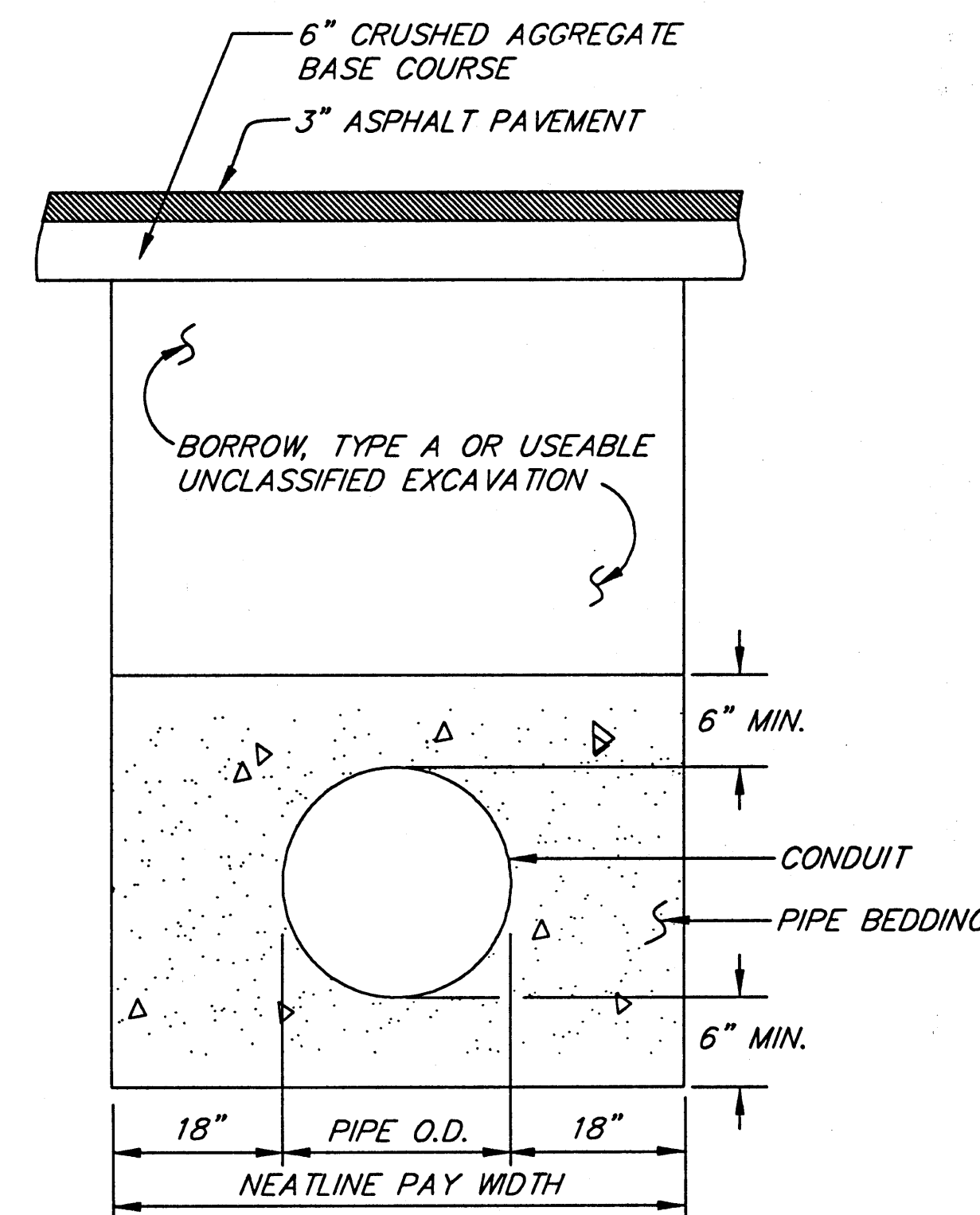
**TYPE I MANHOLE  
PRECAST REDUCING SLAB**



**SECTION A**



**ADJUST STORM/SEWER MANHOLE 1**



**STORM DRAIN BEDDING/BACKFILL DETAIL  
N.T.S.**

PATH:  
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Tue, 29/Jul/03 10:30AM rksnyder  
PLOT:  
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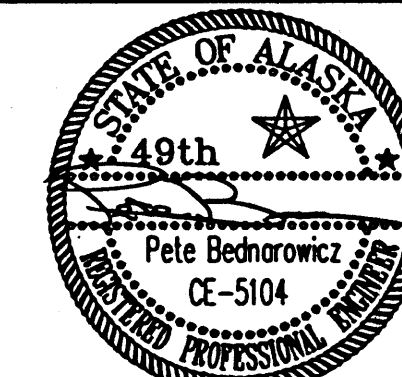
ADDENDUM NUMBER		
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JNU-LOOP RD/ VALLEY  
BLVD/ MENDENHALL BLVD  
SIGNAL  
PROJECT NO. 68583

MISCELLANEOUS DETAILS

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PE: [Signature] Date: 7/17/03

DESIGNED BY: R. KRAEMER



CHECKED BY: Pete Bednarowicz  
DRAWN BY: GDM Graphics

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
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STATEWIDE DESIGN & ENGINEERING  
SERVICES DIVISION

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BLVD/ MENDENHALL BLVD  
SIGNAL  
PROJECT NO. 68583

MISCELLANEOUS DETAILS

PROJECT DESIGNATION NUMBER

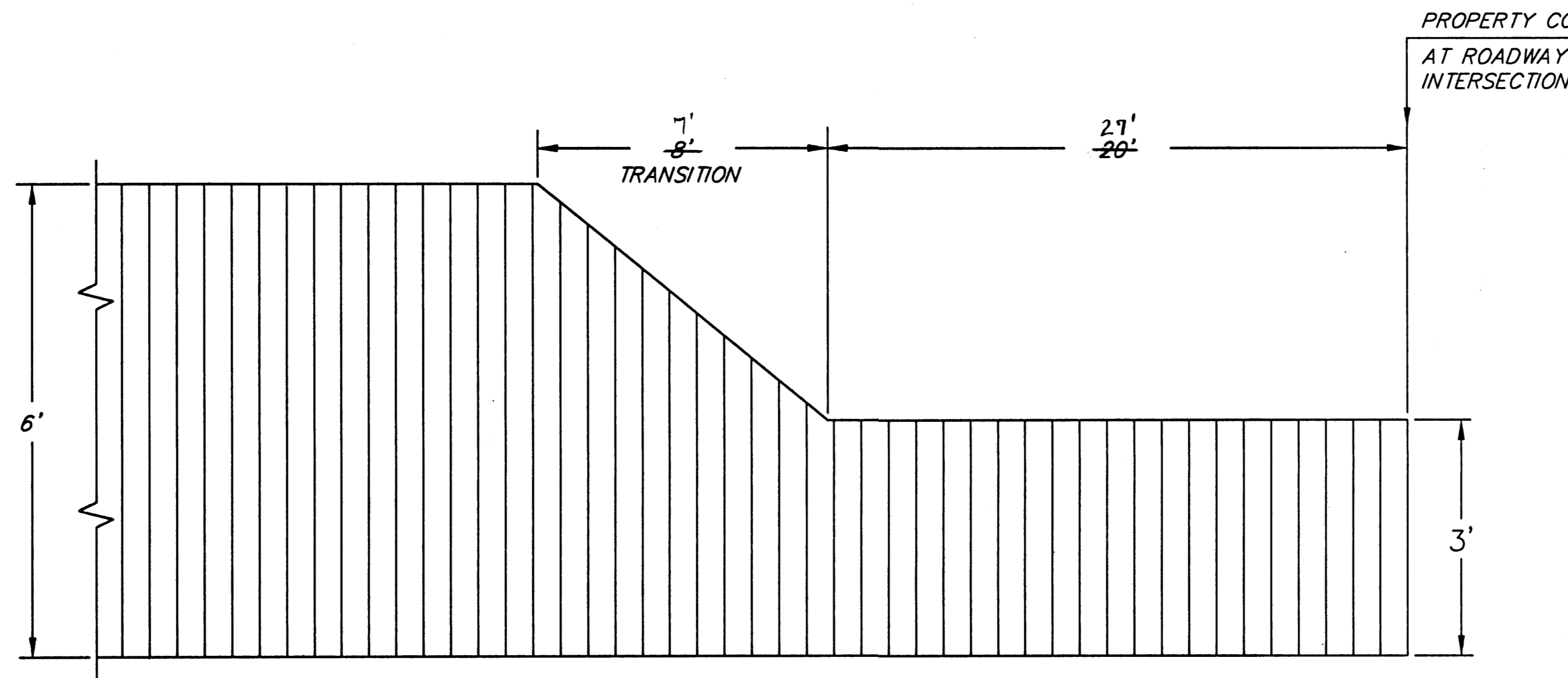
HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
F7	46

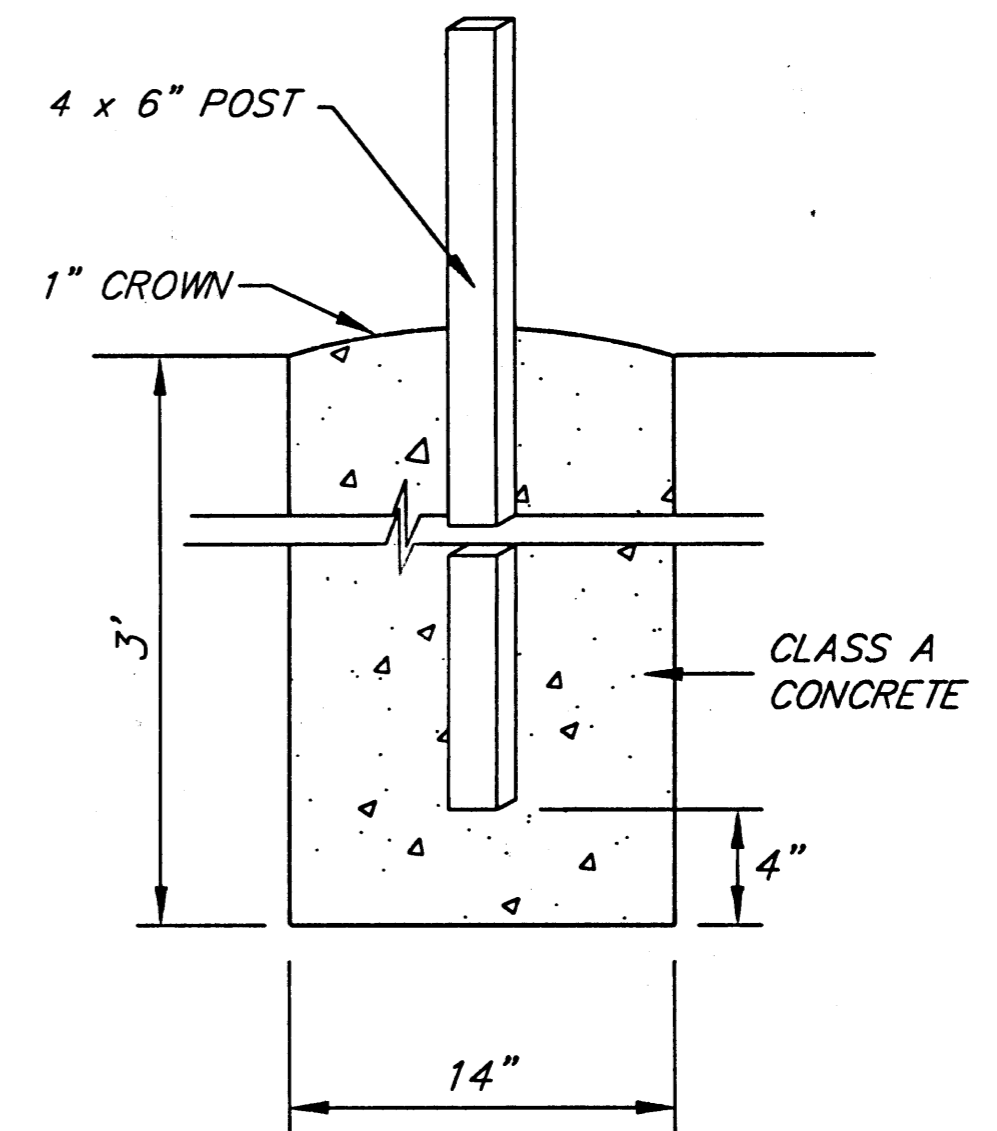
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

**GENERAL NOTES**

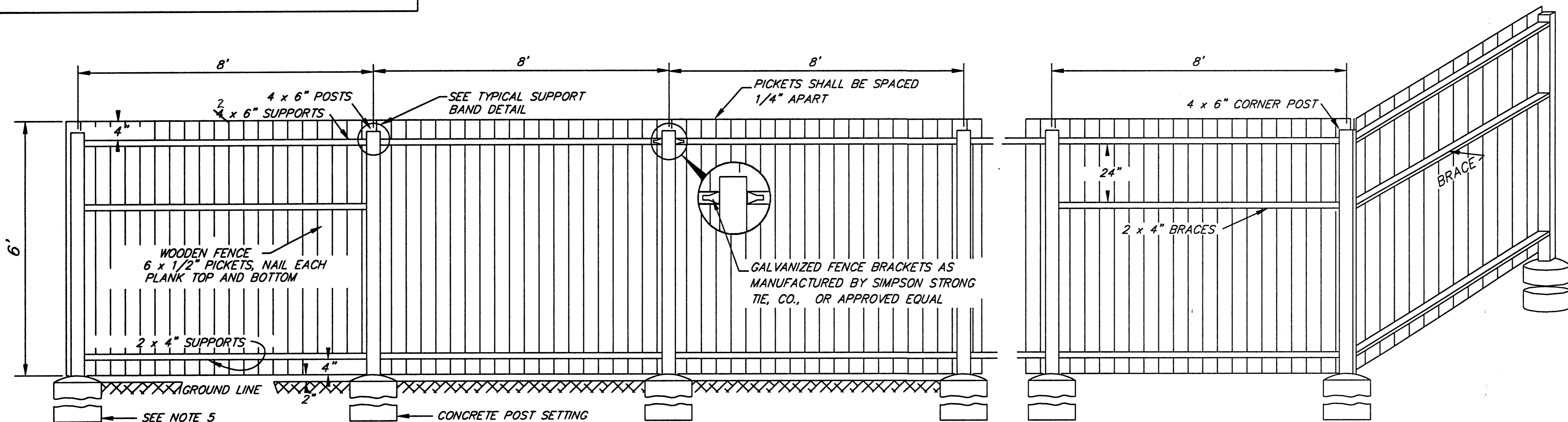
1. POSTS SHALL BE SPACED EQUAL DISTANCES APART. MAXIMUM SPACING SHALL BE 8' UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
2. SUPPORTS AND BRACES SHALL BE SECURELY FASTENED TO POST WITH TRUSS BANDS.
3. WOOD FENCING SHALL BE PRESSURE TREATED WITH CCA TO 0.4 PCF RETENTION.
4. SURFACES SHALL BE SMOOTH AND UNIFORM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



**FENCE HEIGHT TRANSITION AT ROADWAY INTERSECTION**



**CONCRETE POST SETTING**



**TYPICAL BRACE POST**

**TYPICAL FENCE SECTION**

**TYPICAL CORNER OR TERMINAL POST**

PATH: Q:\Jnu\68583\Planset\F-fencedet1.dwg  
Tue, 29/Jul/03 10:34AM rksnyder  
PLOT:  
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER

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FENCE DETAILS

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PE: [Signature] Date: 7/17/03

DESIGNED BY: P. BEDNAROWICZ



CHECKED BY: P. BEDNAROWICZ

DRAWN BY: D. STEVENS

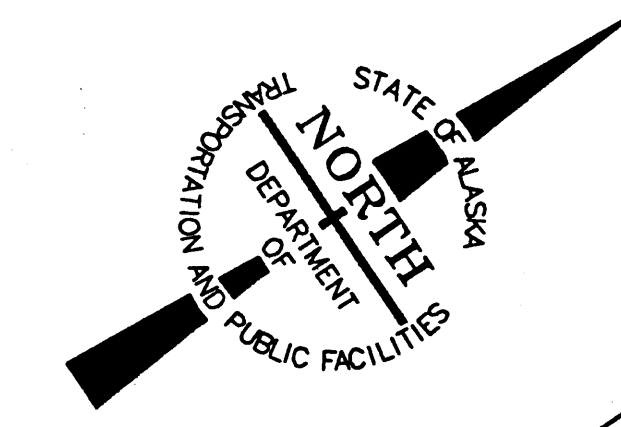
STATE OF ALASKA  
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ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/VALLEY BLVD/MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583  
 SIGNING & STRIPING PLAN

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the work as constructed.  
 PE: *[Signature]* Date: 7/15/04

DESIGNED BY: K. MATTSON



CHECKED BY: R. PURVES  
 DRAWN BY: D. STEVENS

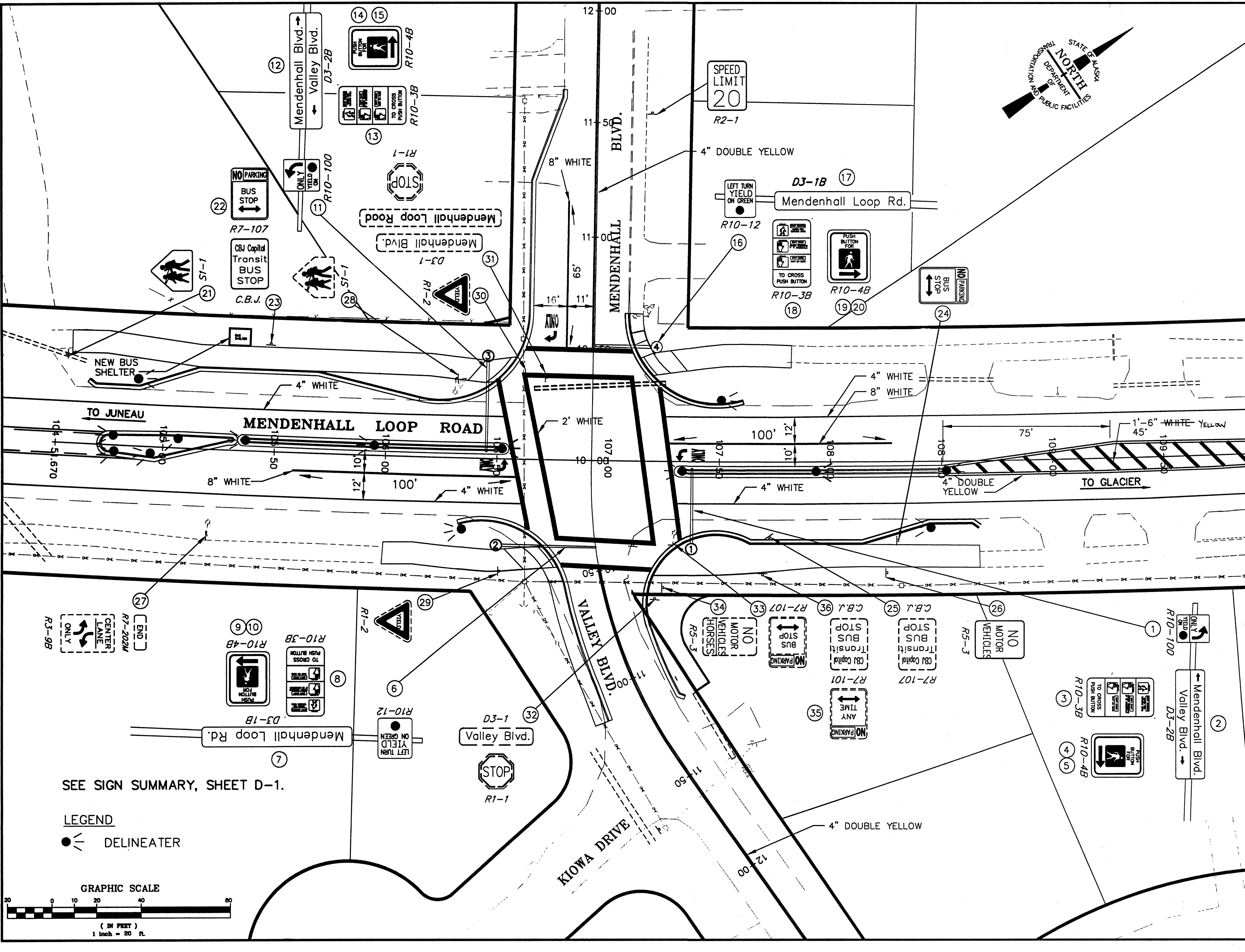
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

JNU-LOOP RD/VALLEY BLVD/MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583  
 SIGNING & STRIPING PLAN

PROJECT DESIGNATION NUMBER

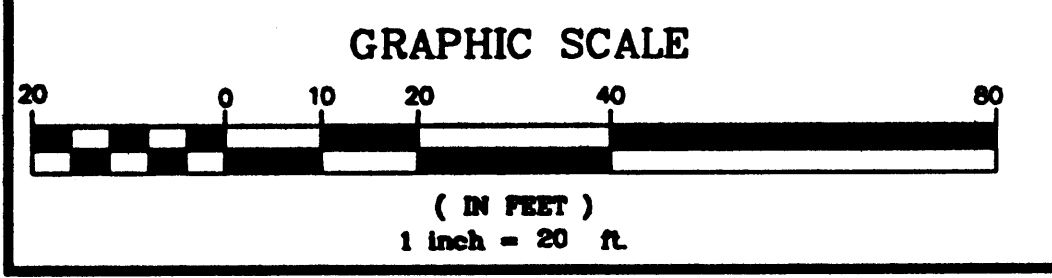
HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
L1	46



SEE SIGN SUMMARY, SHEET D-1.

LEGEND  
 ● DELINEATER

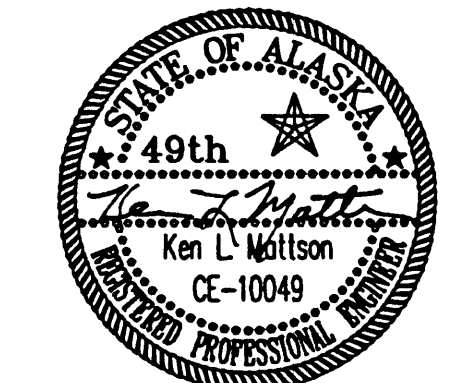


ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/VALLEY BLVD/ MENDENHALL BLVD SIGNAL  
 PROJECT NO. 68583  
 ILLUMINATION PLAN VIEW

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge.  
 PE: *[Signature]* Date: 7/17/04

DESIGNED BY: K. MATTSO



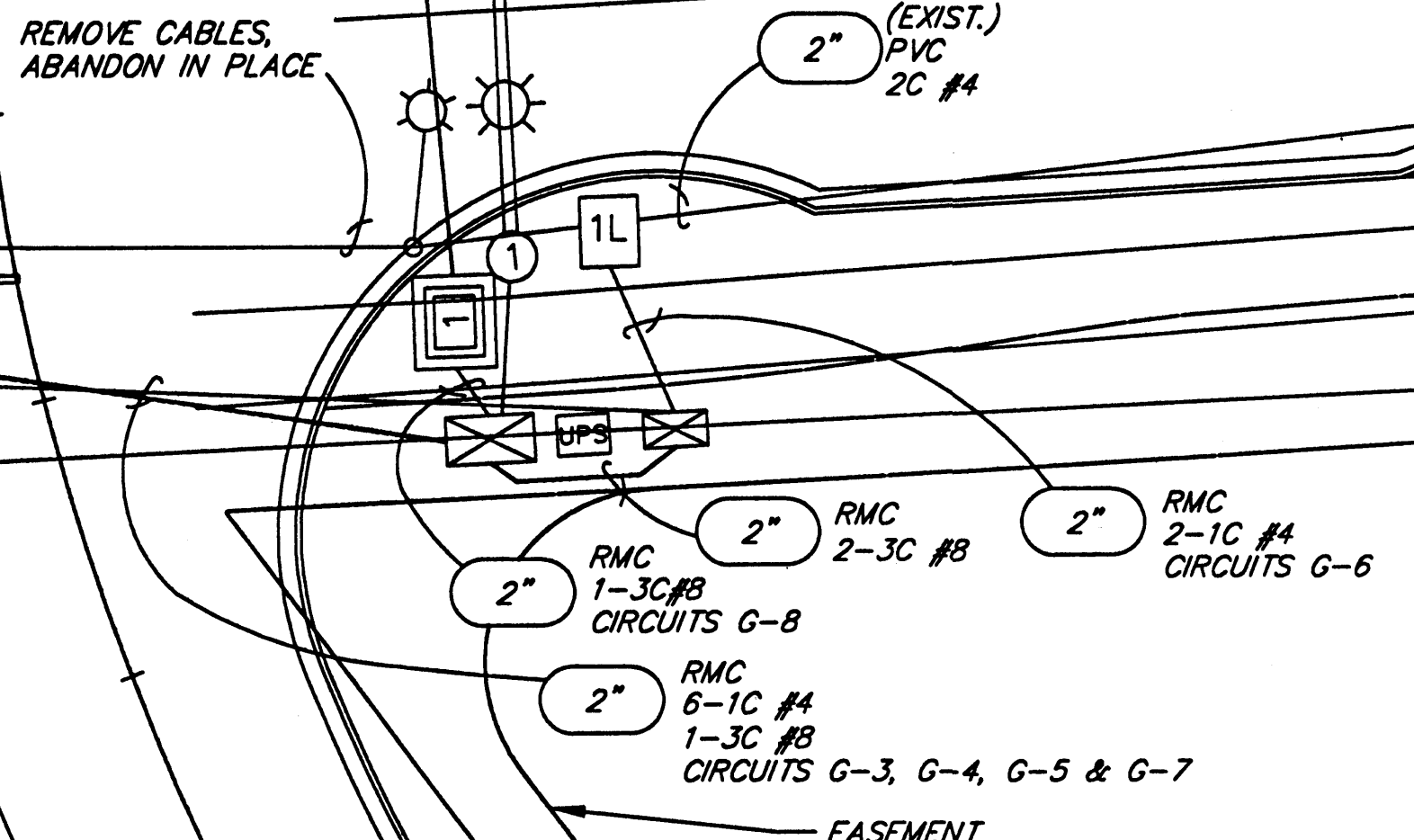
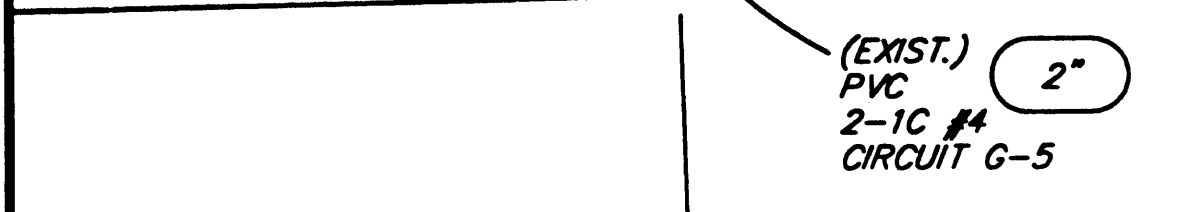
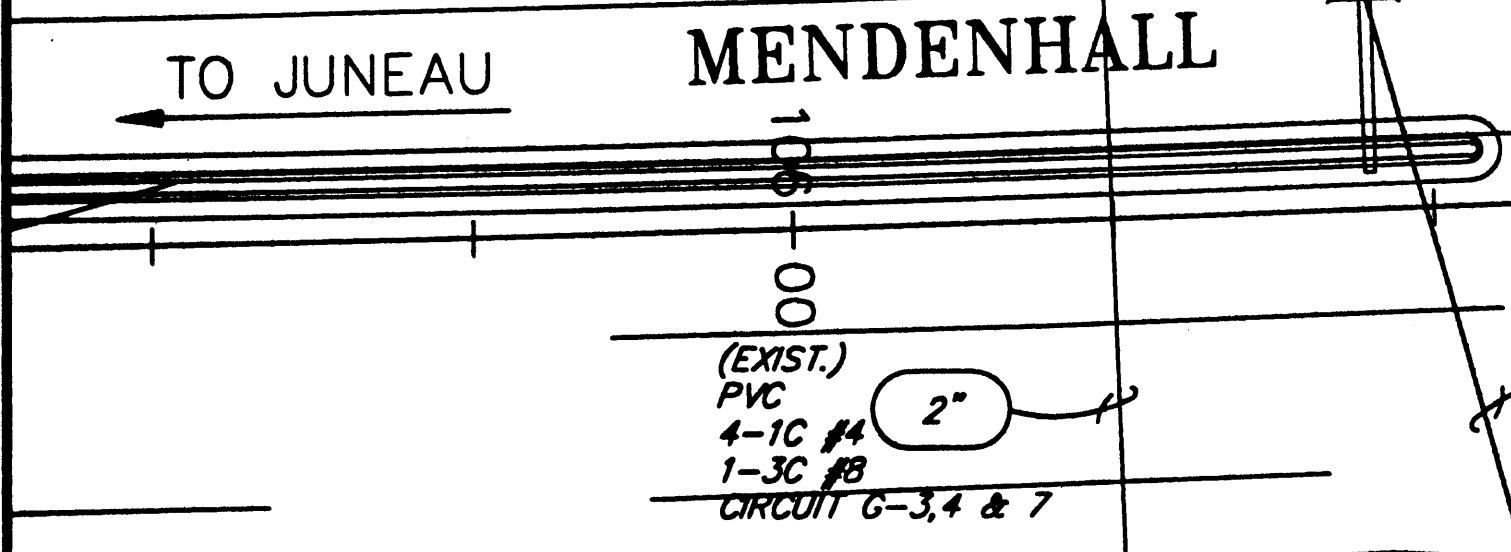
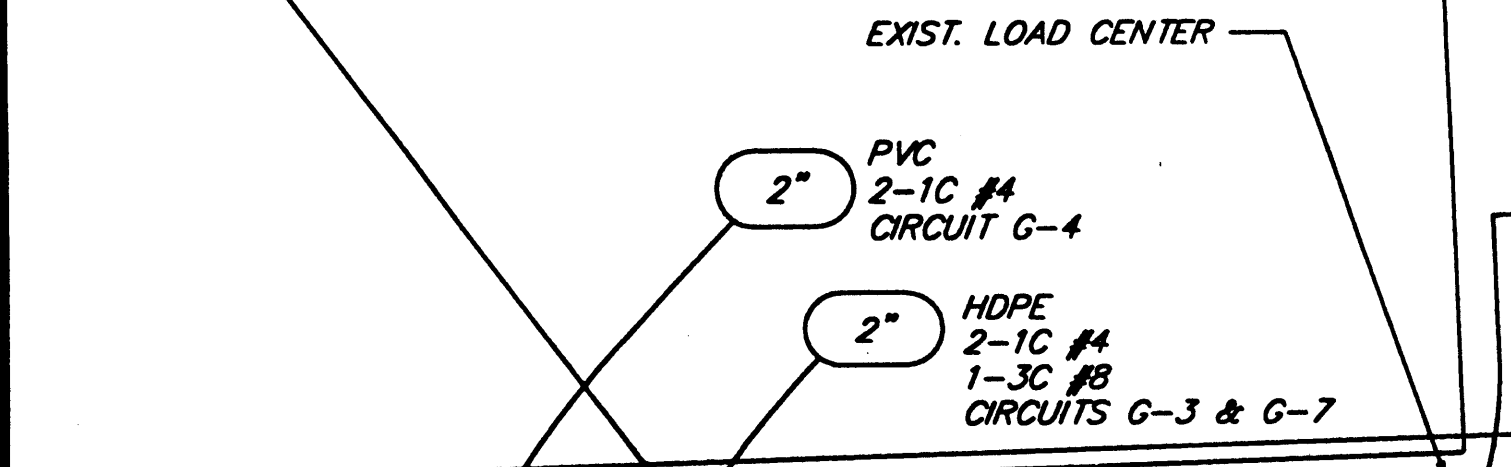
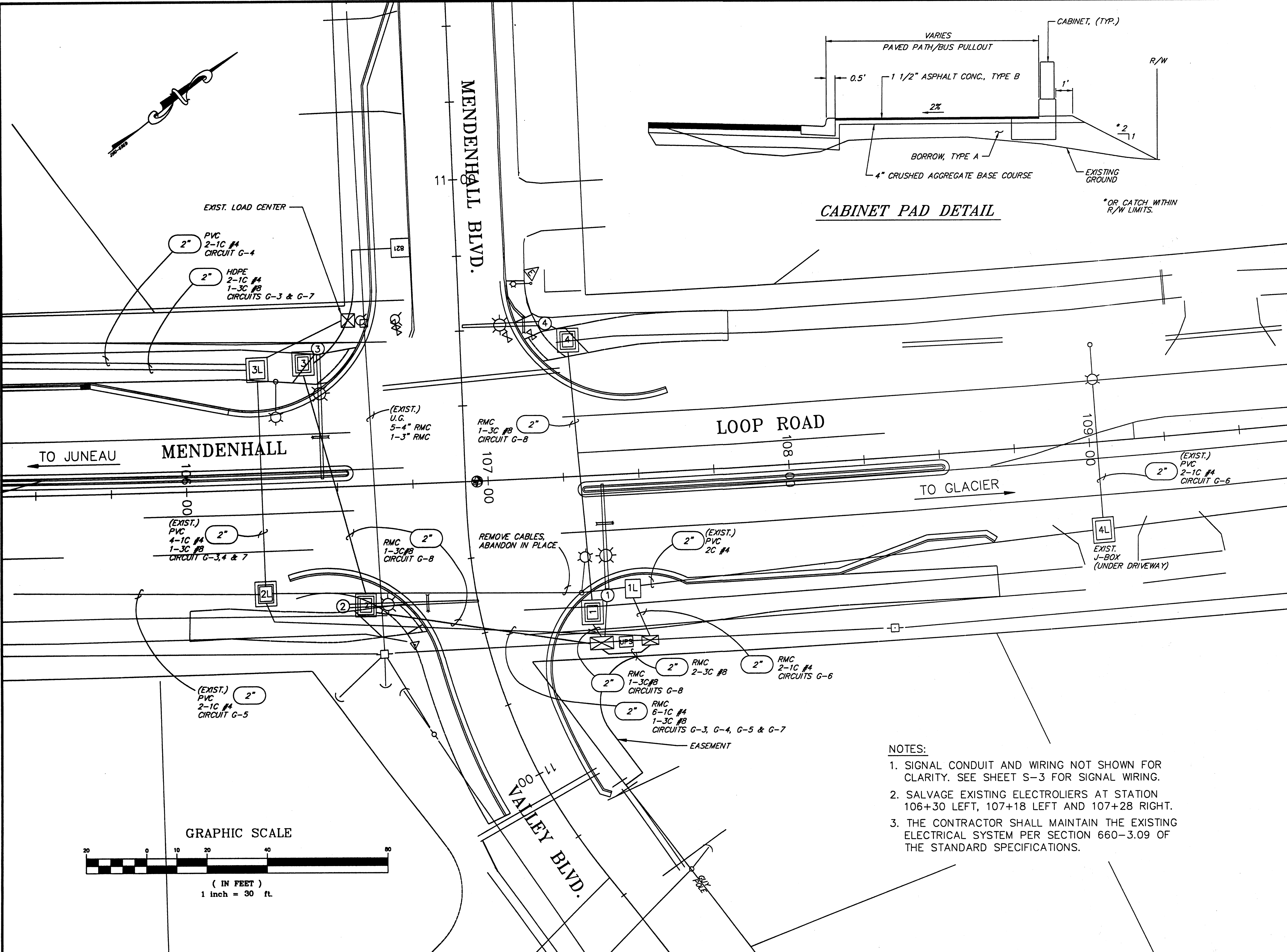
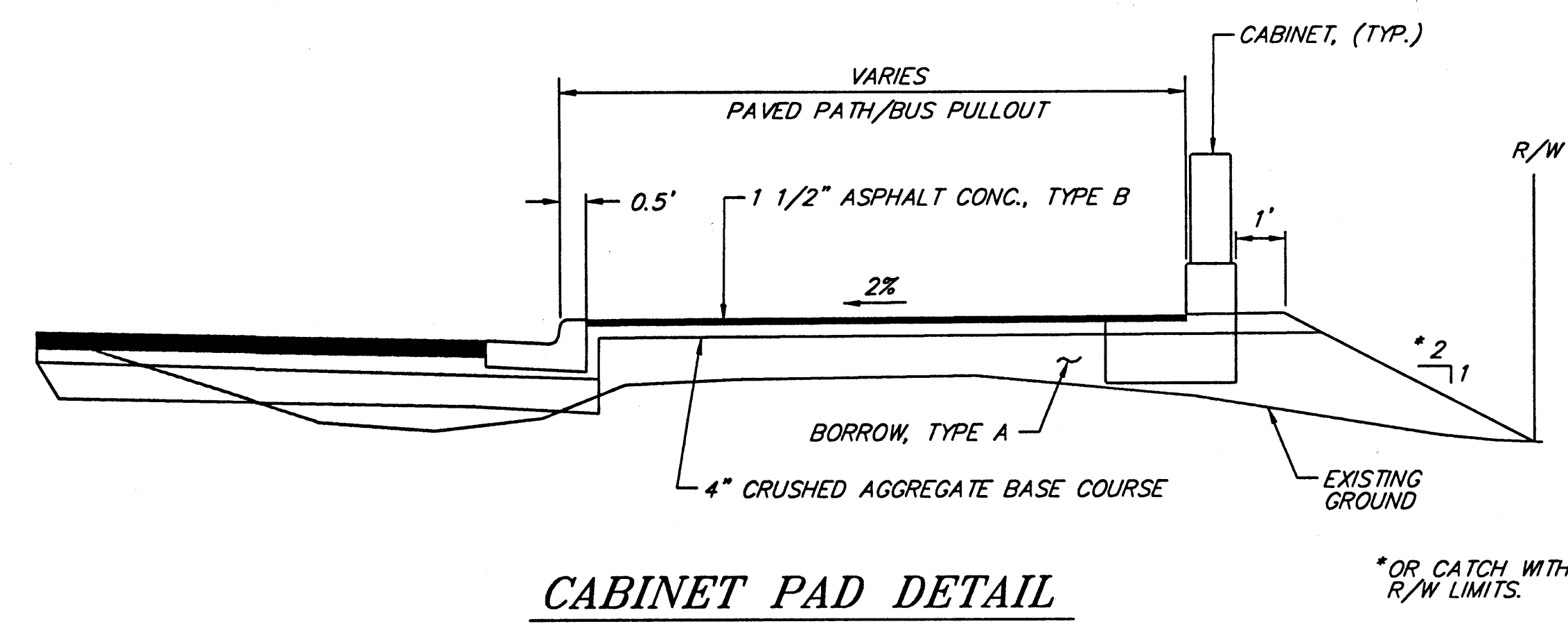
CHECKED BY: R. PURVES  
 DRAWN BY: D. STEVENS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

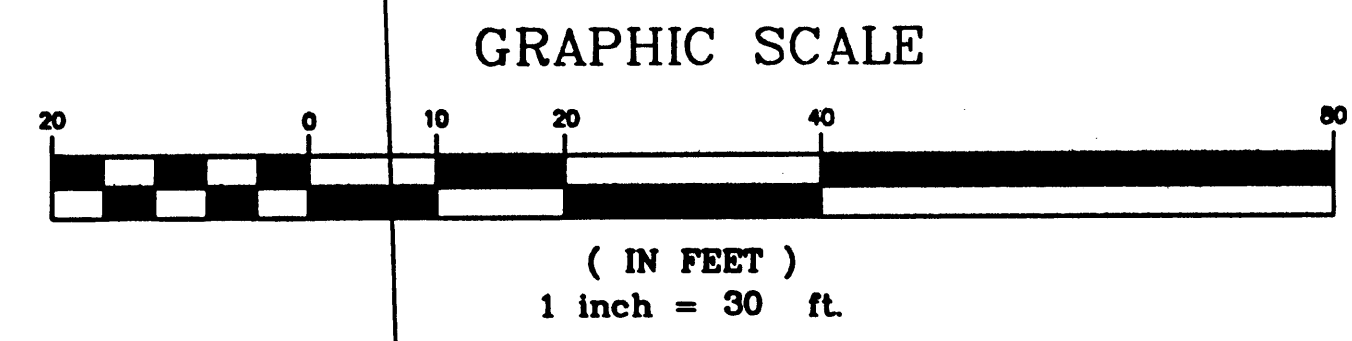
JNU-LOOP RD/VALLEY BLVD/ MENDENHALL BLVD SIGNAL  
 PROJECT NO. 68583  
 ILLUMINATION PLAN VIEW

PROJECT DESIGNATION NUMBER  
 HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
L2	46



- NOTES:
1. SIGNAL CONDUIT AND WIRING NOT SHOWN FOR CLARITY. SEE SHEET S-3 FOR SIGNAL WIRING.
  2. SALVAGE EXISTING ELECTROLIERS AT STATION 106+30 LEFT, 107+18 LEFT AND 107+28 RIGHT.
  3. THE CONTRACTOR SHALL MAINTAIN THE EXISTING ELECTRICAL SYSTEM PER SECTION 660-3.09 OF THE STANDARD SPECIFICATIONS.





### ILLUMINATION GENERAL NOTES

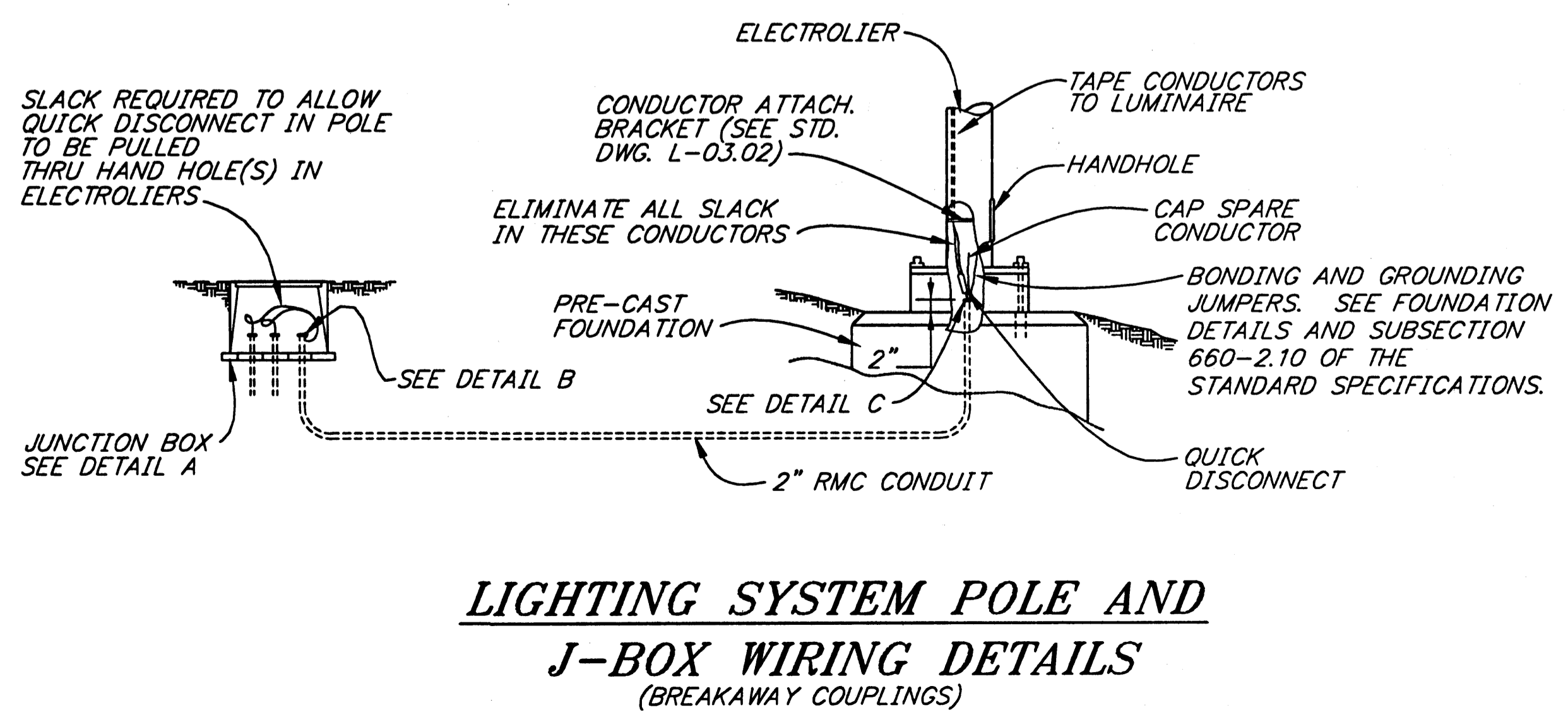
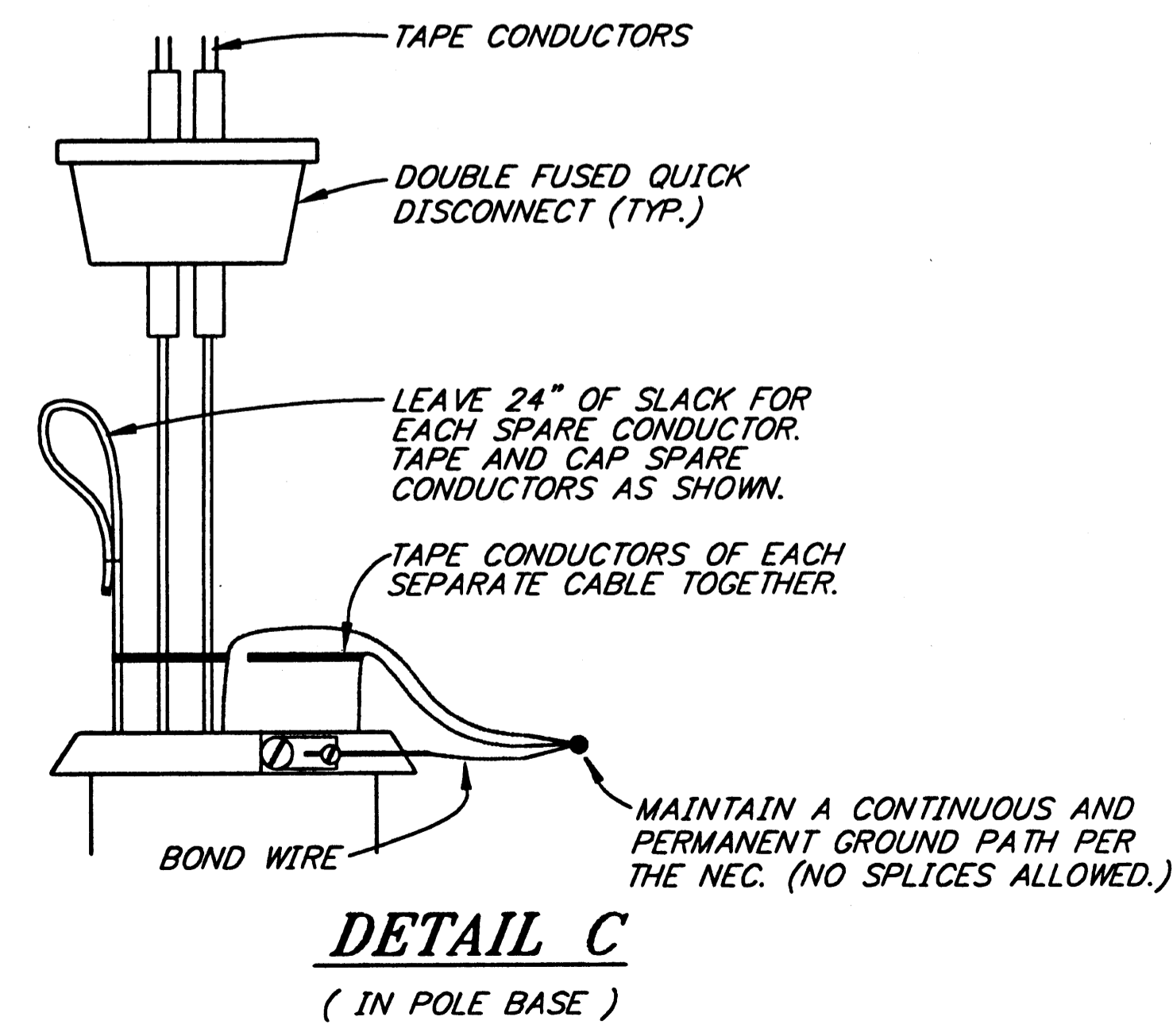
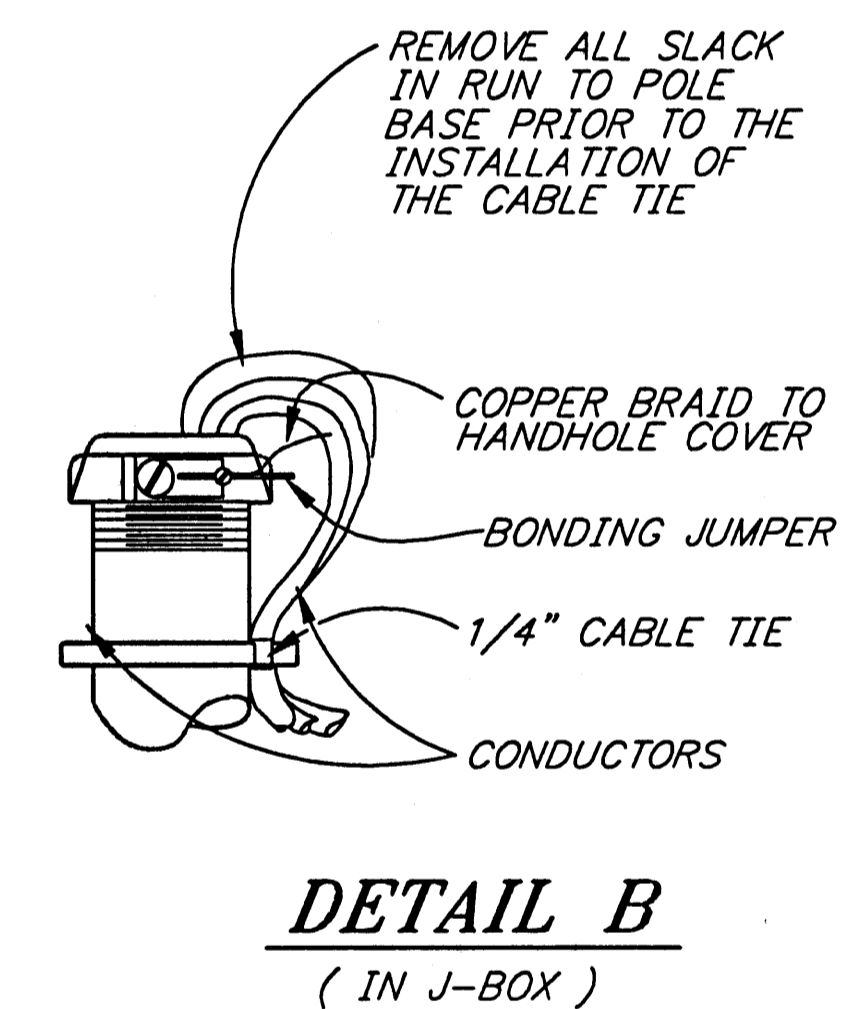
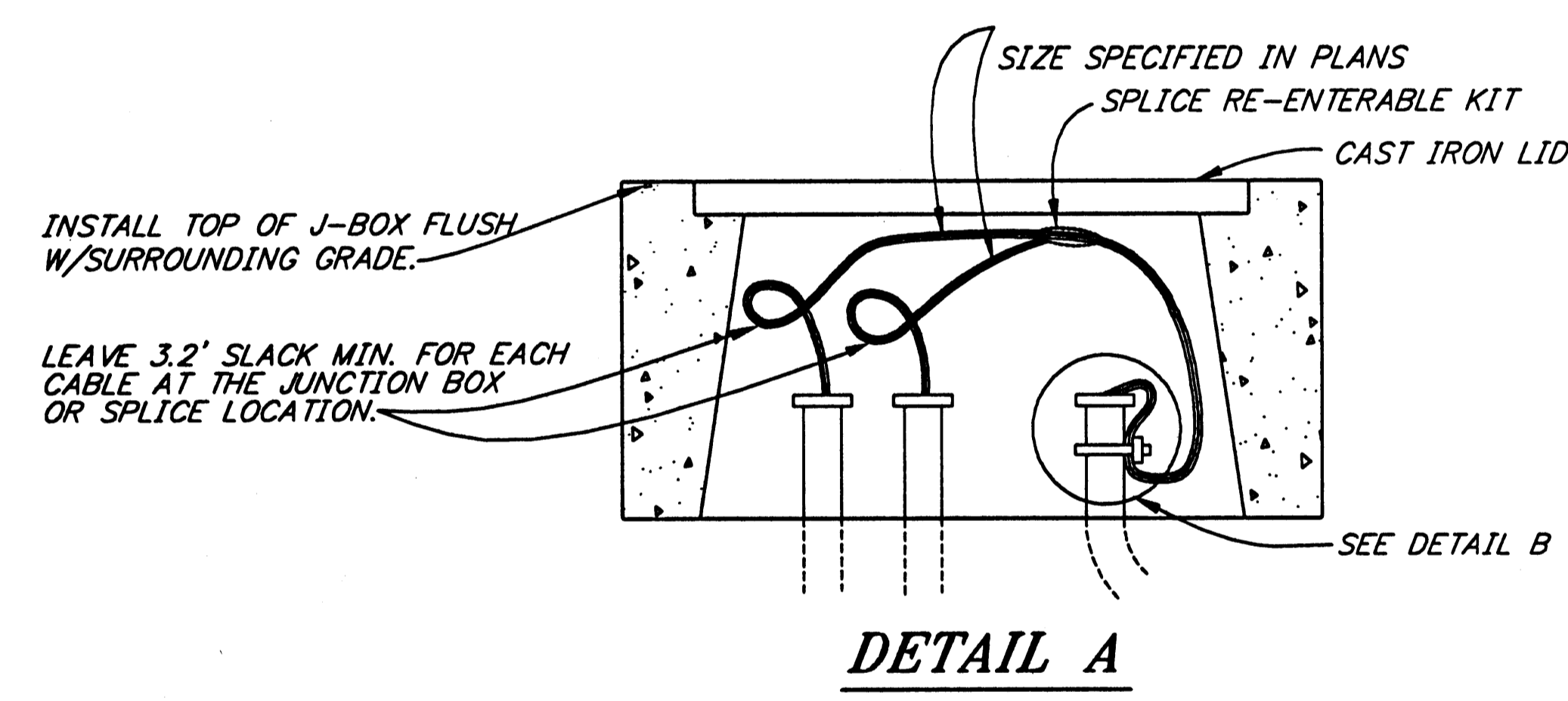
- EXISTING CONDUIT AND J-BOX LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL "AS-BUILT" INFORMATION.
- SEE THE FOLLOWING PROJECTS FOR "AS-BUILT" INFORMATION:  
 MENDENHALL LOOP ROAD AND GLACIER SPUR WIDENING AND BIKEPATH RS-0960 (1), RS-0966 (8), 1977.  
 JUNEAU MENDENHALL LOOP ROAD ILLUMINATION MODIFICATION RS-M-0966 (17) 69331, 1987.  
 FLOYD DRYDEN SCHOOL CROSSWALK, HHE-0966 (21) 68179, 2002.
- EXISTING ILLUMINATION CIRCUITS SHALL BE CUT AND RESPLICED INTO NEW WIRE AT J-BOXES, AS SHOWN ON THE PLANS. ABANDONED WIRING SHALL BE REMOVED FROM THE CONDUIT. ABANDONED CONDUIT SHALL BE LEFT IN PLACE OR REMOVED AS DIRECTED BY THE ENGINEER.
- EXISTING LOAD CENTER SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR ONCE THE NEW LOAD CENTER IS OPERATIONAL.
- NEW LUMINAIRES SHALL BE 240V 250W HIGH PRESSURE SODIUM, MEDIUM DISTRIBUTION, CUT-OFF, IES TYPE III, AND SHALL HAVE MAGNETIC REGULAR BALLAST, WITH HPS LAMPS WITH A 24,000 HR. RATED LIFE.
- THE CONTRACTOR SHALL OBTAIN UTILITY LOCATES PRIOR TO ANY UNDERGROUND WORK.
- SEE SHEET D3 FOR LOAD CENTER AND ILLUMINATION CIRCUIT INFORMATION.

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

LIGHTING DETAILS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *[Signature]* Date 7/17/04



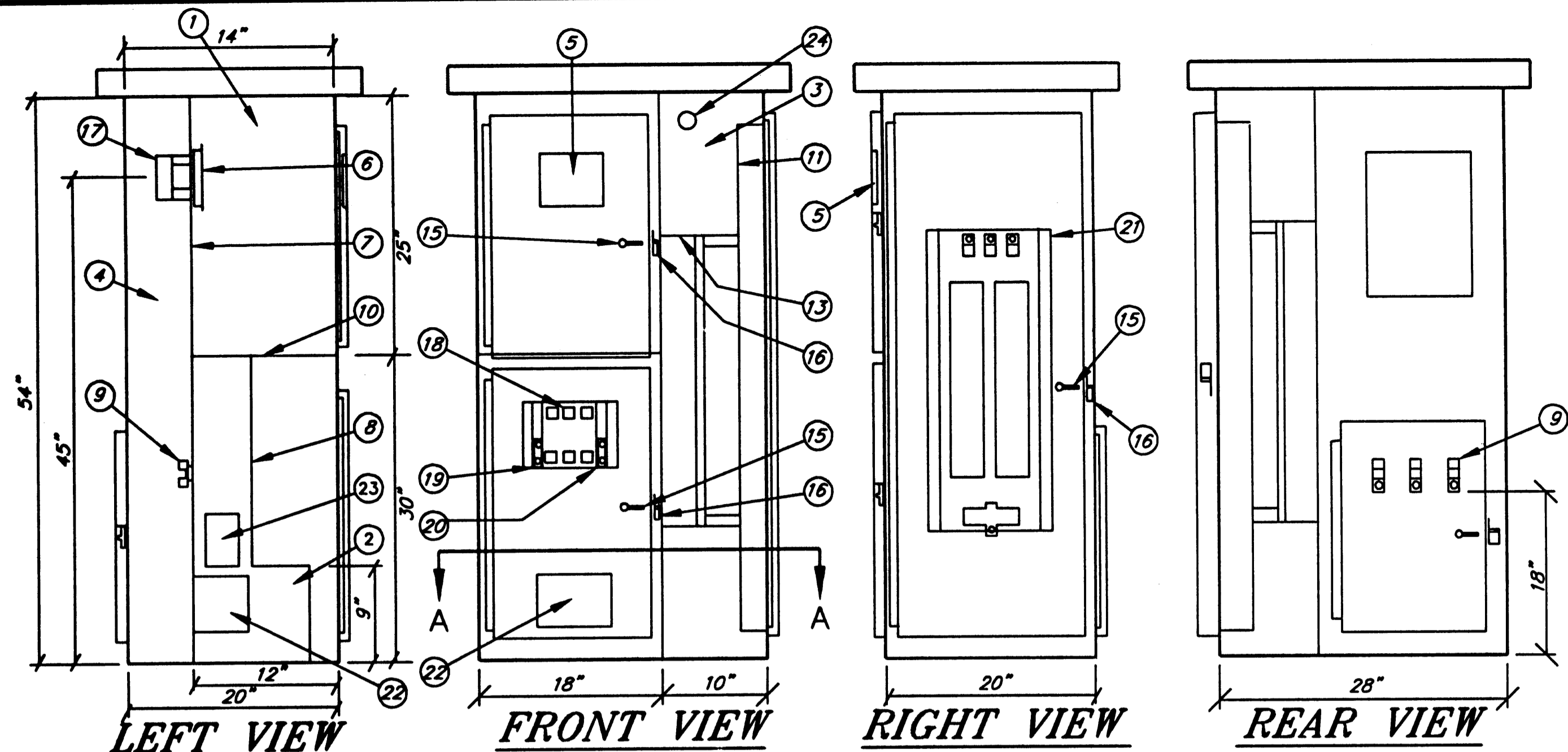
DESIGNED BY: K. MATTSO

CHECKED BY: R. PURVES  
 DRAWN BY: D. STEVENS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

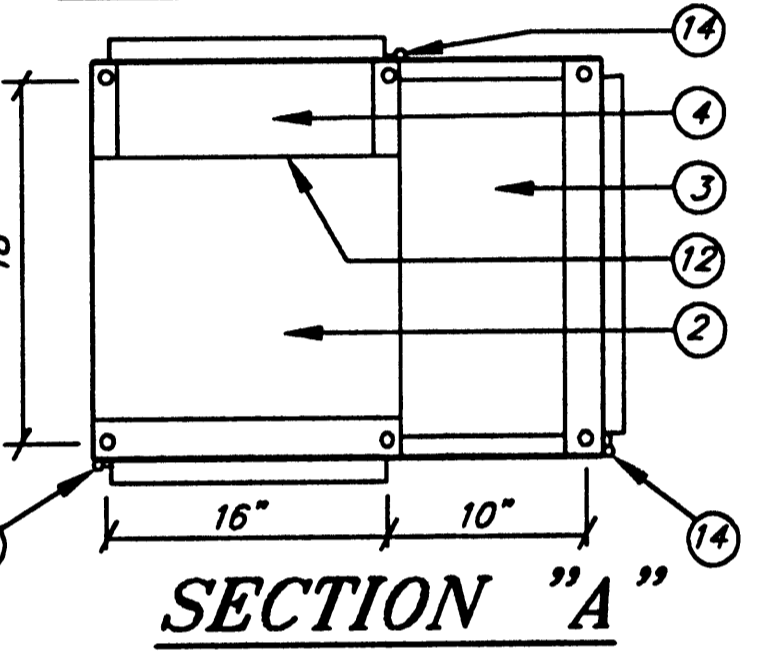
JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

LIGHTING DETAILS	
PROJECT DESIGNATION NUMBER	
HRO-0966(24) / 68583	
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
L4	46

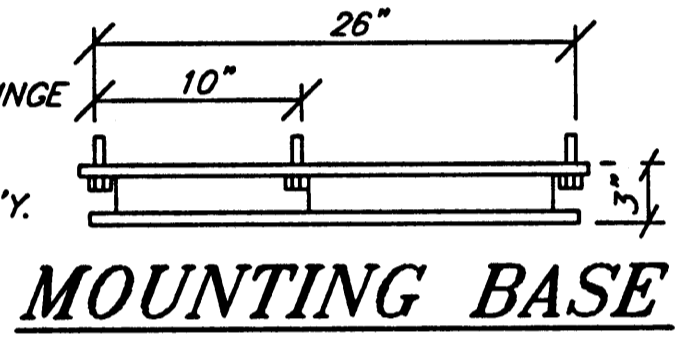


**EQUIPMENT LEGEND**

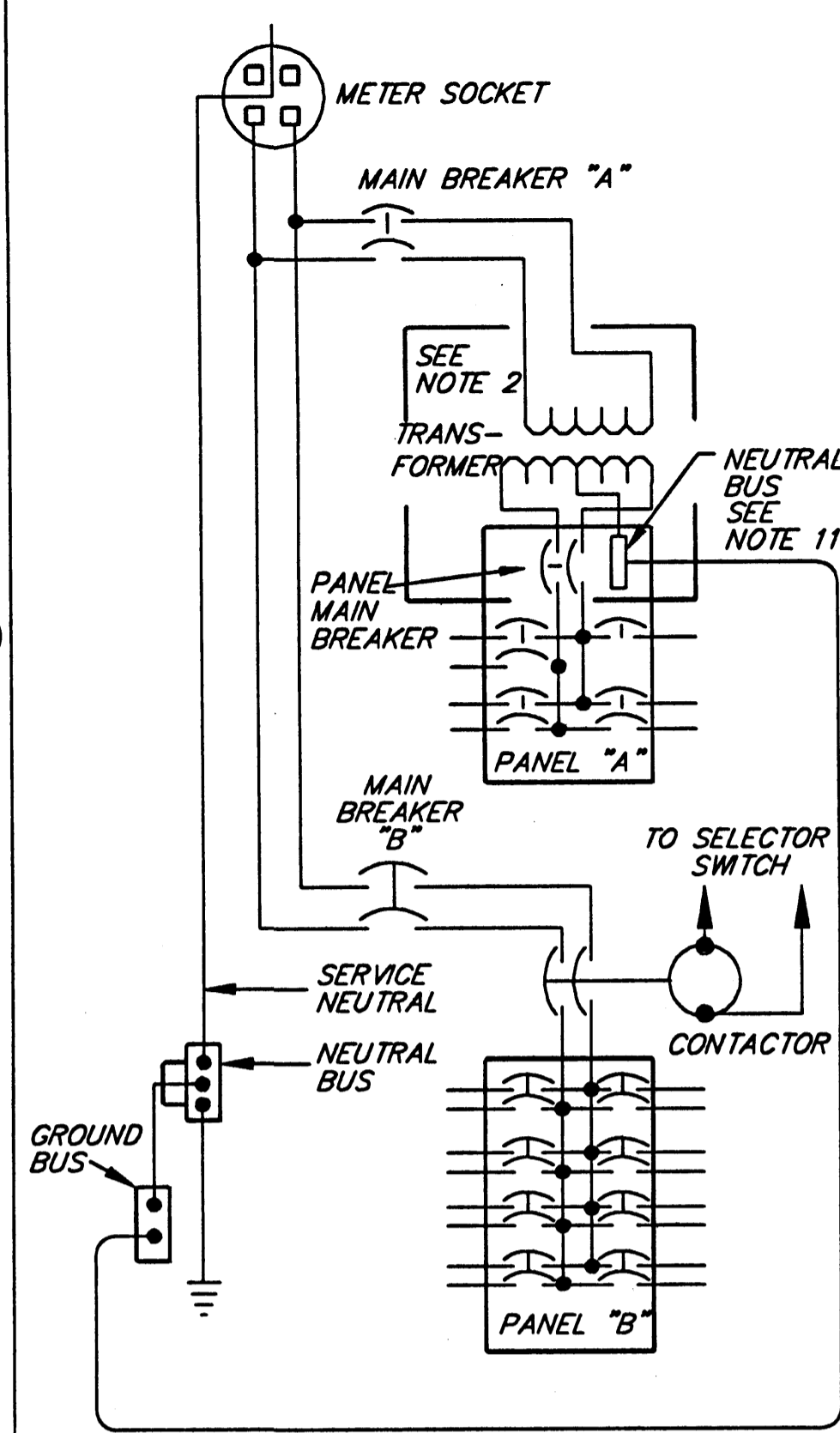
1. METER SECTION
2. LOAD SECTION (MAIN)
3. LOAD SECTION (DISTRIBUTION)
4. SERVICE PULL SECTION
5. METER READING WINDOW
6. METER SOCKET COVER
7. TEST SECTION COVER
8. DEAD FRONT
9. UTILITY LANDING LUGS
10. METER SECTION BARRIER
11. PANEL BOARD DEADFRONT
12. EQUIPMENT CHASSIS



13. MOUNTING PAN
14. STAINLESS STEEL PIN HINGE
15. COIN LATCH
16. HASP FOR PADLOCK
17. METER SOCKET KIT ASS'Y.
18. MAIN BREAKER(S)
19. NEUTRAL BAR
20. GROUND BAR
21. PANEL BOARD INTERIOR
22. ALTERNATE CONTACTOR LOCATION
23. CABLE OPENING
24. P.E. CELL



**TYPE 1 LOAD CENTER CABINET SECTION / ELEVATION**

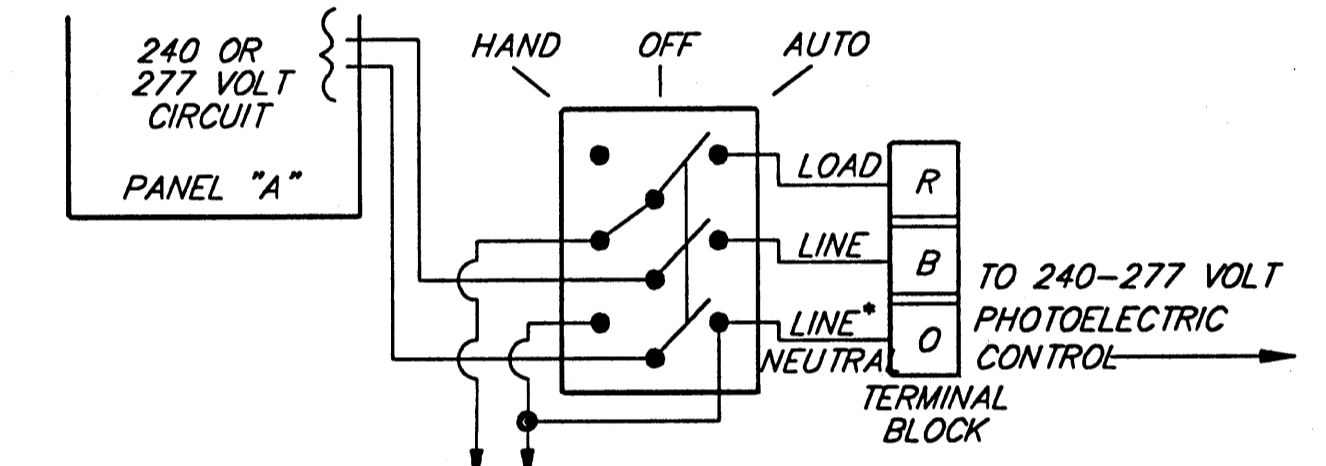


**WIRING DIAGRAM**

TYPE 1 LOAD CENTER

**WIRING NOTES:**

1. THE TYPE 1 LOAD CENTER IS INTENDED FOR USE WITH ALL 480 VOLT SERVICES AND THOSE 240 VOLT SERVICES, WHENEVER THE LOAD CONDUCTORS WILL NOT FIT INTO ONE TWO INCH CONDUIT.
2. THE SERVICE VOLTAGE IS SHOWN IN EACH LOAD CENTER SUMMARY. INSTALL A TRANSFORMER AND A PANEL WITH MAIN BREAKER WHENEVER A TRAFFIC SIGNAL CIRCUIT IS SPECIFIED AND 120 VOLTS IS NOT AVAILABLE.
3. PROVIDE LOAD PANELS SIZED FOR THE NUMBER OF DOUBLE POLE CIRCUIT BREAKERS SHOWN IN THE LOAD CENTER SUMMARIES, ALLOWING SPACE FOR TWO SPARE DOUBLE POLE BREAKERS.
4. INSTALL TWO SPARE DOUBLE POLE 20 AMPERE BREAKERS IN ALL LOAD PANELS.
5. THE CONTROL CIRCUIT AND CONTACTOR COIL RATING IS EITHER 240 OR 277 VOLT, AS DETERMINED BY THE SERVICE VOLTAGE.
6. INSTALL THE TRANSFORMER, WHEN CALLED FOR IN THE LOAD CENTER SUMMARY, ON WALL BRACKETS ATTACHED TO THE SIDE OF THE FOUNDATION. INSTALL THE WALL BRACKETS TO ENSURE THE BOTTOM OF THE TRANSFORMER IS IN THE SAME PLANE AS THE TOP OF THE FOUNDATION.
7. THE INTERRUPTING CAPACITY OF LOAD CENTER CIRCUIT BREAKERS SHALL BE 10,000 AIC AT 240 VOLTS AND 14,000 AIC AT 480 VOLTS, UNLESS OTHERWISE NOTED. LOAD CENTER INTERRUPTION RATING MAY BE A SERIES RATING.
8. MEYERS TYPE HUBS ARE UL LISTED AS A GROUNDING CONDUIT FITTINGS FOR WET LOCATIONS.
9. METALLIC CONDUITS, MUST BE GROUNDED AT EACH END. PROVIDE INSULATED THROAT GROUNDING BUSHINGS.
10. GROUND CONDUCTORS TO BE COPPER SIZED PER NEC TABLES 250-94 AND 250-95, UNLESS NOTED AS LARGER; #8 AWG MINIMUM.
11. IF PANEL-A IS DERIVED FROM A TRANSFORMER PER NOTE #2, PROVIDE A SEPARATE NEUTRAL BUS AND BOND TO LOAD CENTER GROUND BUS.
12. SEE LOAD CENTER SUMMARIES FOR CIRCUIT AND COMPONENT DESCRIPTIONS AND RATINGS.



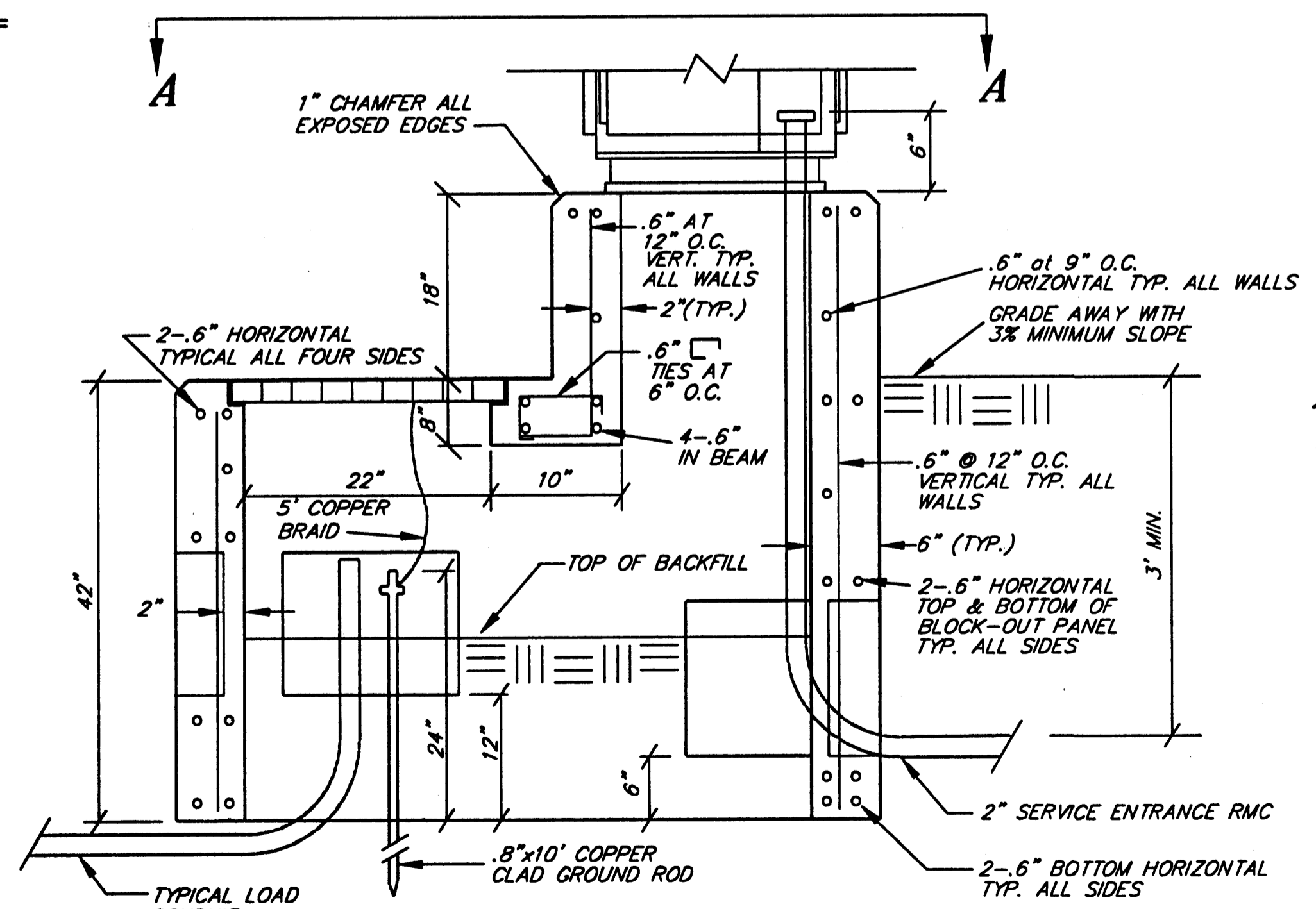
**SELECTOR SWITCH WIRING**

(USING 10 AMP, 3 POLE, 3 POSITION SWITCH)

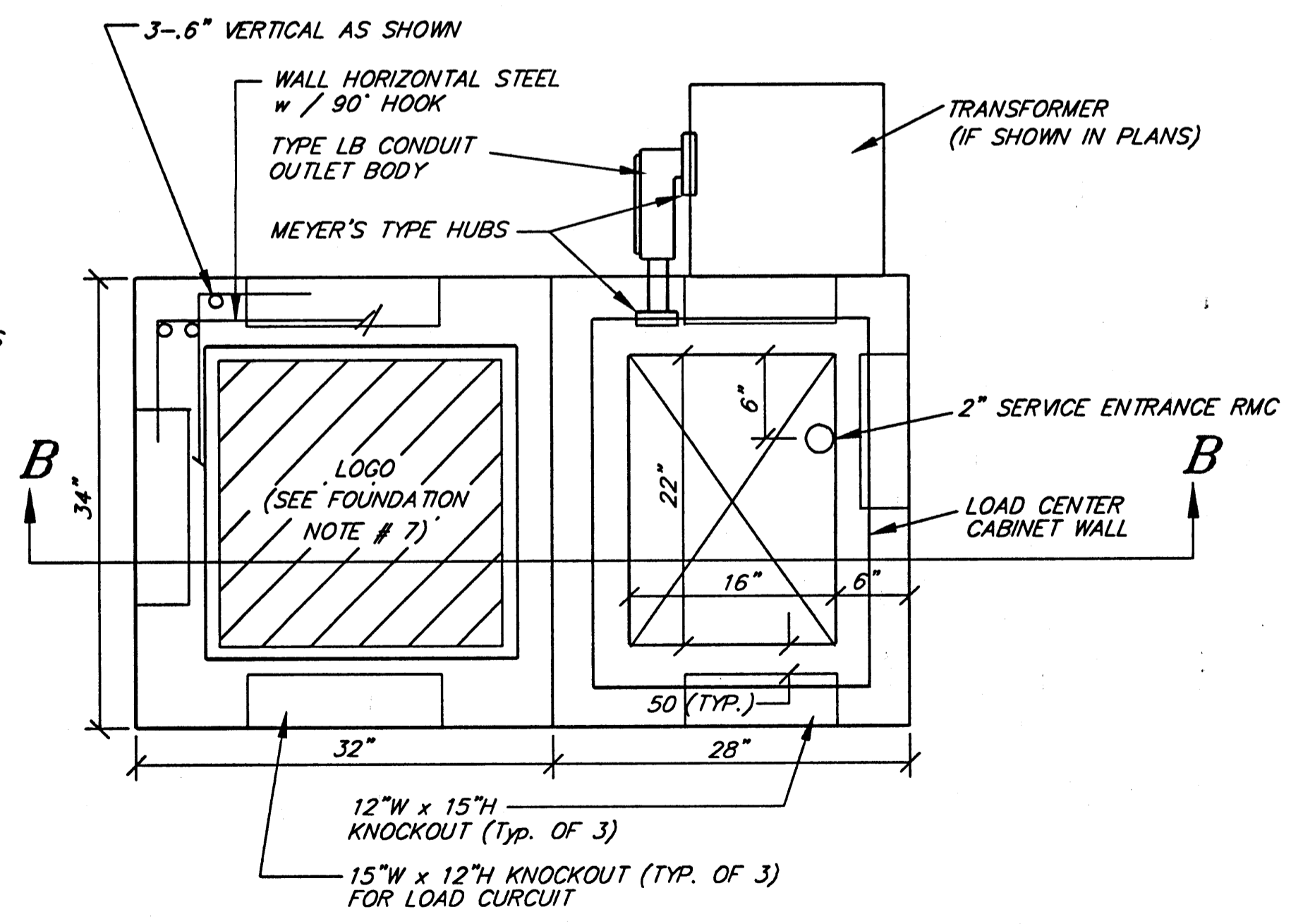
\* GROUNDED NEUTRAL IF SERVICE IS 240/480 VOLT SINGLE PHASE, OR 277/480 VOLT THREE-PHASE UNGROUNDED LINE IF SERVICE IS 120/240 VOLT SINGLE PHASE.

**FOUNDATION & LOCATION NOTES:**

1. INSTALL THE BASE SO THE CAST IRON COVER IS FLUSH WITH THE PAVEMENT, SIDEWALK, OR FINISHED GRADE. GRADE AWAY FROM THE BASE WITH A MINIMUM SLOPE OF 3%. USE A PRE-MOULDDED BITUMINOUS JOINT BETWEEN THE BASE AND CONCRETE SIDEWALK OR PAVING.
2. EXCAVATE 60" BELOW FINISH GRADE FOR THE BASE AND INSTALL A DRAIN CONSISTING OF 18" OF COARSE CONCRETE AGGREGATE AS APPROVED BY THE ENGINEER. BACK-FILL AROUND THE BASE IN 6" LIFTS WITH SELECTED MATERIAL TYPE "A".
3. BACKFILL INSIDE THE FOUNDATION TO WITHIN 24" OF THE LID AFTER ALL OF THE CONDUITS ARE INSTALLED, USING COARSE AGGREGATE. TERMINATE THE ENDS OF ALL LOAD CONDUITS A MINIMUM OF 6" ABOVE THE COARSE CONCRETE AGGREGATE SURFACE AND A MINIMUM OF 12" BELOW THE LID.
4. PROVIDE ANCHOR BOLTS OR EXPANSION ANCHORS IN THE BASE FOR MOUNTING THE CABINET PER THE MANUFACTURER'S SHOP DRAWINGS. ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO EITHER ASTM A307 OR A449 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
5. USE GRADE 60 REINFORCING STEEL CONFORMING TO ASTM A615.
6. USE CLASS "A" CONCRETE CONFORMING TO SECTION 501 OF THE SPECIFICATIONS.
7. FINISH THE BASE ACCESS OPENING WITH A 20" SQUARE IRON FRAME AND COVER, WEIGHING APPROXIMATELY 127KG. PROVIDE COVERS INSCRIBED WITH THE LEGEND "LIGHTING" FOR THOSE LOAD CENTERS WITH STREET LIGHTING CIRCUITS ONLY, AND "TRAFFIC" FOR THOSE LOAD CENTERS WITH A TRAFFIC SIGNAL CIRCUIT.
8. THE BASE MAY BE PRECAST. IF IT IS PRECAST, INSTALL 4 EACH .8" FERRULE LOOP INSERTS FOR LIFTING, TWO ON EACH LONG SIDE.



**SECTION "B-B"**



**VIEW "A-A"**  
(PLAN VIEW)

**TYPE 1 LOAD CENTER BASE**

NOTE: STOP HORIZONTAL & VERTICAL STEEL AT BLOCK-OUT PANELS & OPTIONAL JOINT USING HOOK. INSTALL 2 EXTRA .6" HORIZONTAL & VERTICAL BARS ON ALL SIDES OF EACH KNOCKOUT.

PATH:  
Q:\Jnu\68583\Planset\L-lumin2.dwg  
Tue, 29/Jul/03 11:03AM rksnyder  
PLOT:  
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/ VALLEY  
BLVD/ MENDENHALL BLVD  
SIGNAL  
PROJECT NO. 68583

TYPE I LOAD CENTER DETAILS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge.  
PE: [Signature] Date: 9/17/04

DESIGNED BY: K. MATTSOON



CHECKED BY: R. PURVES  
DRAWN BY: D. STEVENS

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING  
SERVICES DIVISION

JNU-LOOP RD/ VALLEY  
BLVD/ MENDENHALL BLVD  
SIGNAL  
PROJECT NO. 68583

TYPE I LOAD CENTER DETAILS

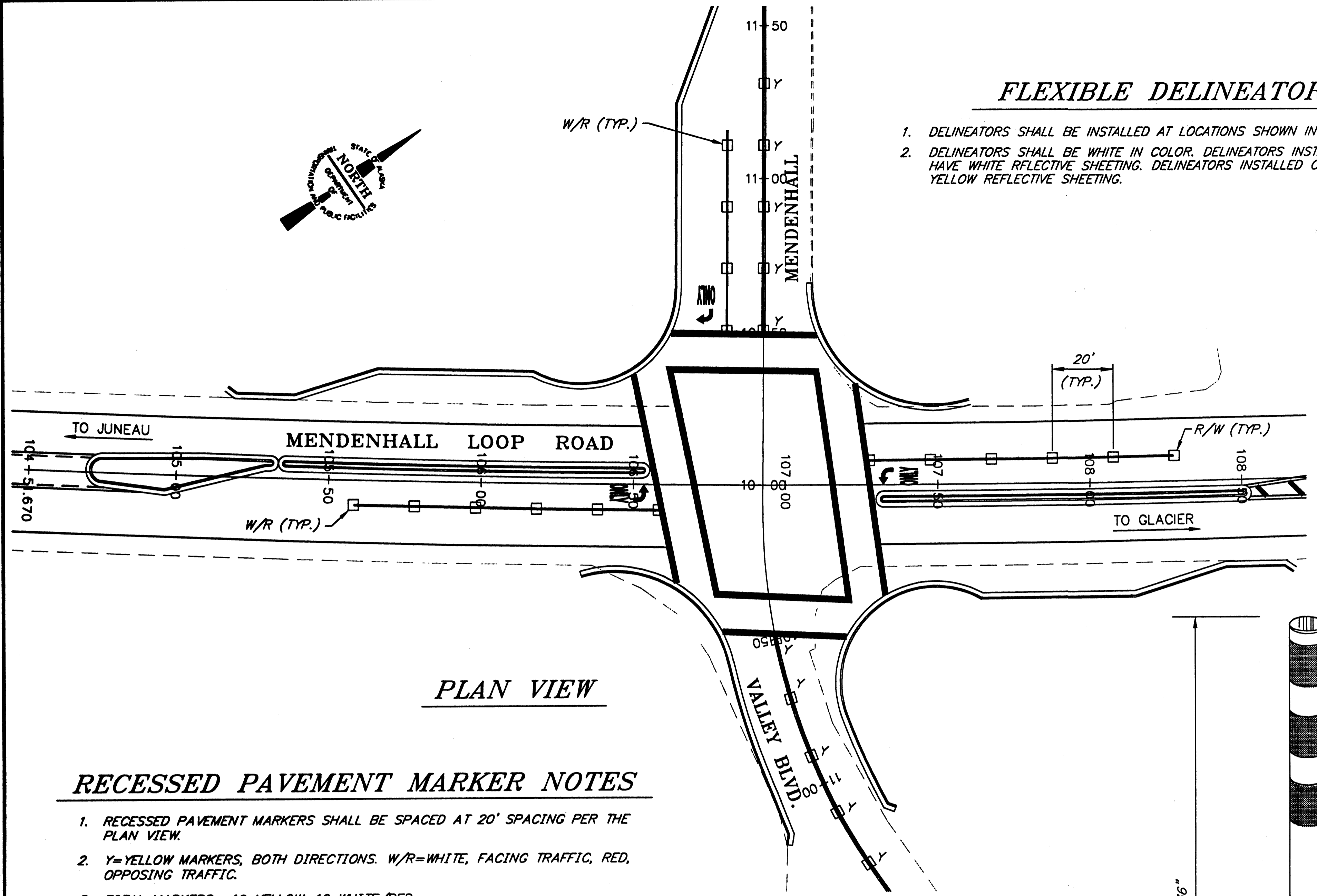
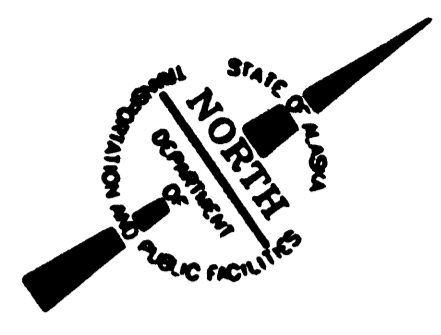
PROJECT DESIGNATION NUMBER  
HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003

SHEET NUMBER	TOTAL SHEETS
L5	46

**FLEXIBLE DELINEATORS NOTES:**

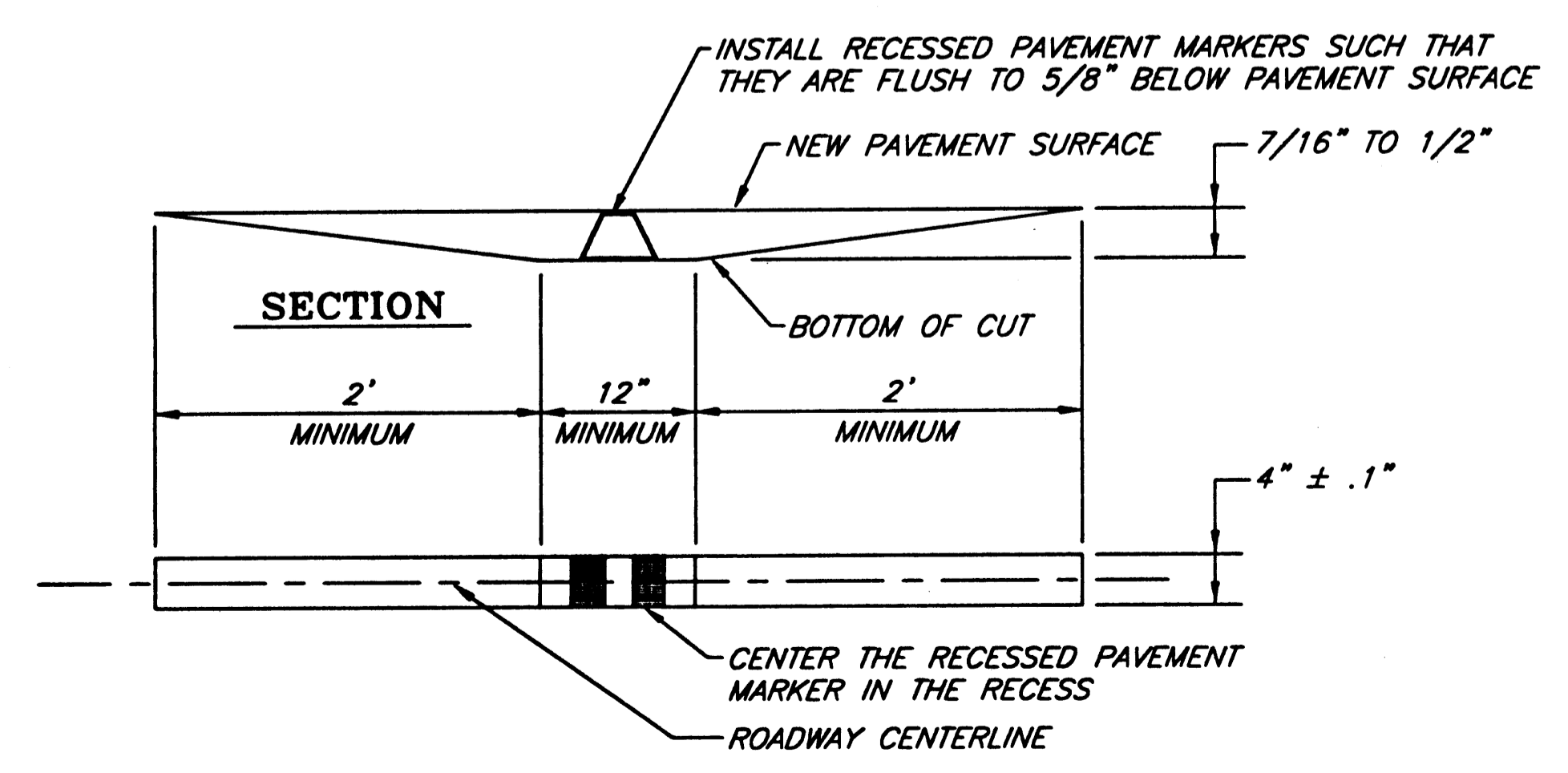
1. DELINEATORS SHALL BE INSTALLED AT LOCATIONS SHOWN IN THE SUMMARY TABLE ON SHEET D-1.
2. DELINEATORS SHALL BE WHITE IN COLOR. DELINEATORS INSTALLED ON OUTSIDE SHOULDERS SHALL HAVE WHITE REFLECTIVE SHEETING. DELINEATORS INSTALLED ON MEDIAN SHOULDERS SHALL HAVE YELLOW REFLECTIVE SHEETING.



**PLAN VIEW**

**RECESSED PAVEMENT MARKER NOTES**

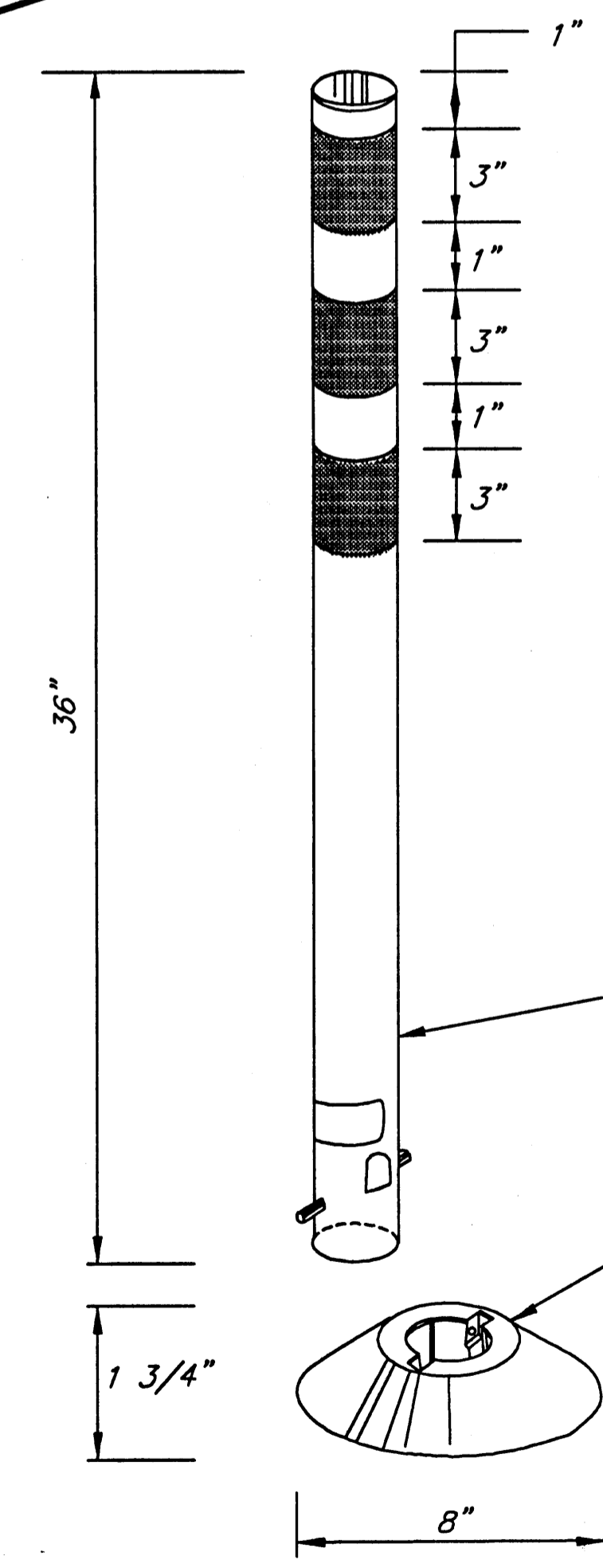
1. RECESSED PAVEMENT MARKERS SHALL BE SPACED AT 20' SPACING PER THE PLAN VIEW.
2. Y=YELLOW MARKERS, BOTH DIRECTIONS. W/R=WHITE, FACING TRAFFIC, RED, OPPOSING TRAFFIC.
3. TOTAL MARKERS= 10 YELLOW, 16 WHITE/RED.
4. YELLOW MARKERS SHALL BE EVENLY SPACED BETWEEN DOUBLE YELLOW LINE. W/R SHALL BE PLACED IN CENTER OF 8" WHITE STRIPE.



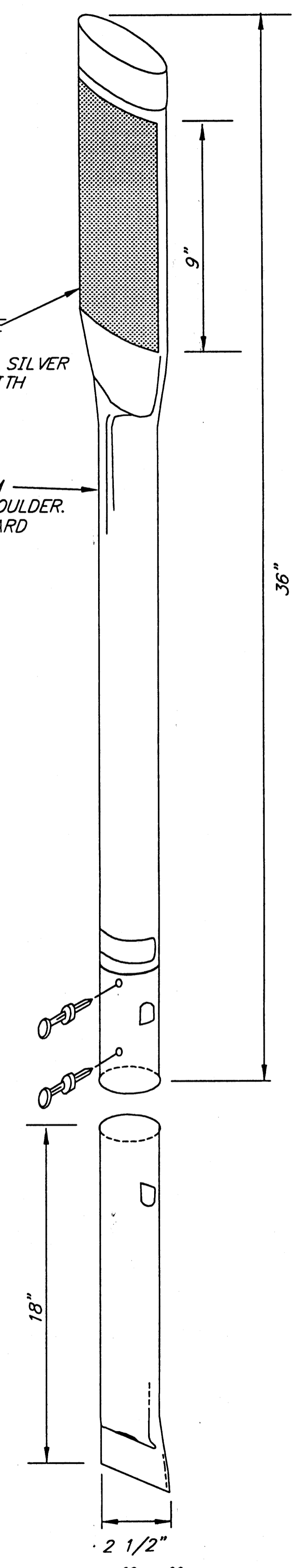
**RECESSED PAVEMENT MARKER DETAIL**

WHITE POST WITH ONE 3" x 9" HIGH INTENSITY AMBER OR SILVER REFLECTIVE STRIP, WITH 18" SOIL ANCHOR

LOCATE 3" MIN. FROM THE EDGE OF THE SHOULDER. SPACING PER STANDARD DRAWING T-05.00



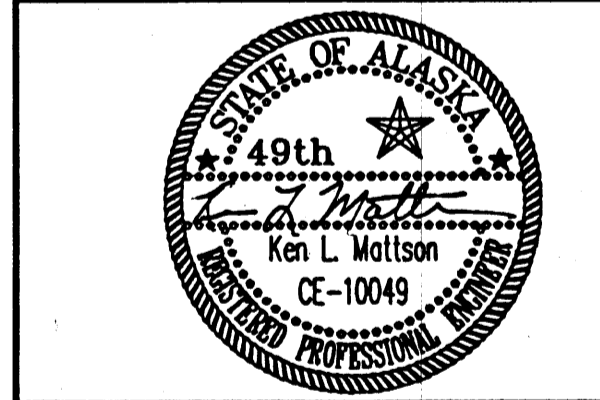
**TYPE "A" FLEXIBLE DELINEATOR DETAILS**



**TYPE "B" FLEXIBLE DELINEATOR DETAILS**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: [Signature] Date: 7/14/04

DESIGNED BY: K. MATTSON



CHECKED BY: P. PURVES

DRAWN BY: D. STEVENS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

JNU-LOOP RD/ VALLEY BLVD/ MENDENHALL BLVD SIGNAL  
 PROJECT NO. 68583  
 SIGNING SUMMARIES

PROJECT DESIGNATION NUMBER

HRO-0966(24) / 68583

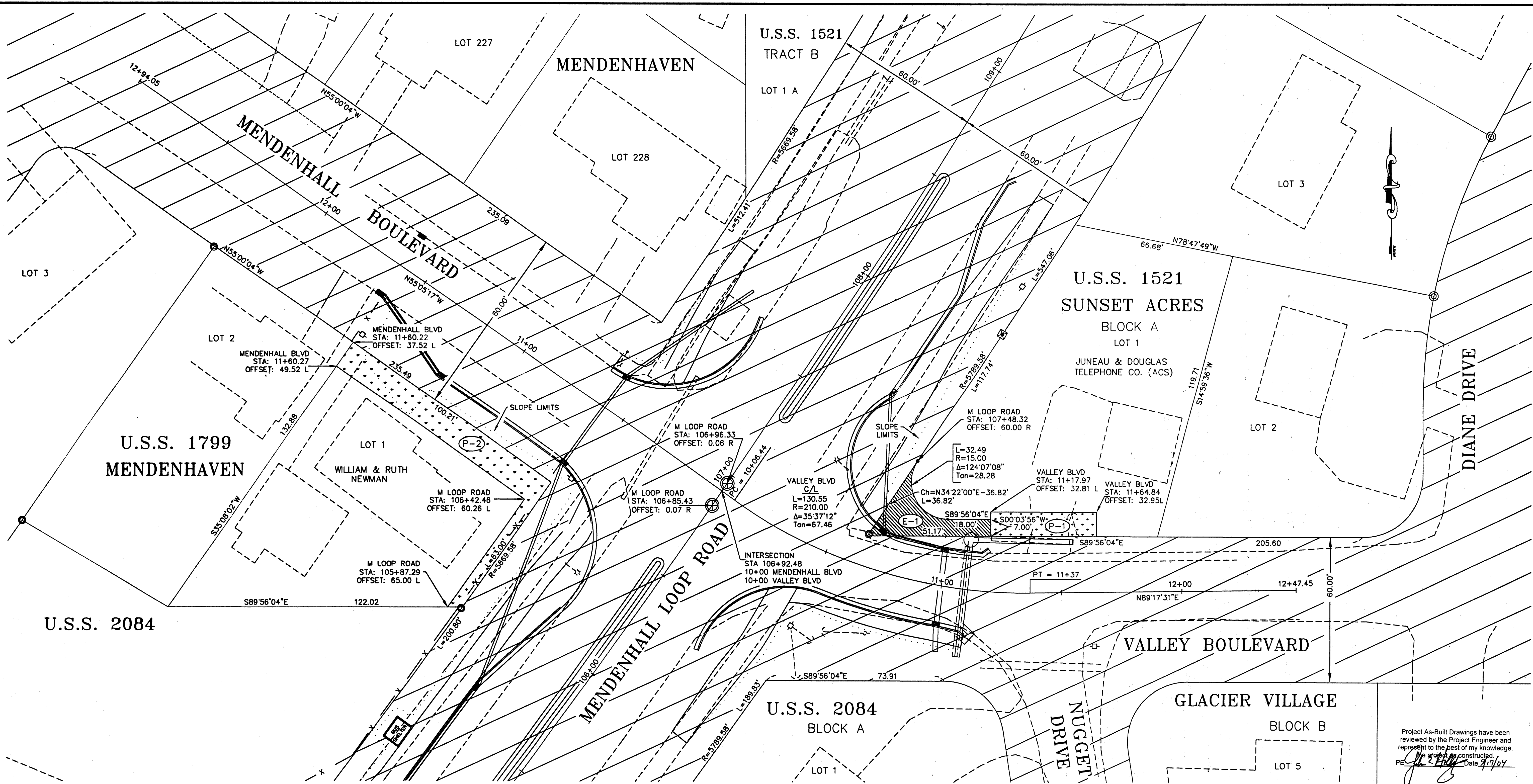
STATE	YEAR
ALASKA	2003

SHEET NUMBER	TOTAL SHEETS
L6	46

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/ VALLEY BLVD/ MENDENHALL BLVD SIGNAL  
 PROJECT NO. 68583

DELINEATION DETAILS



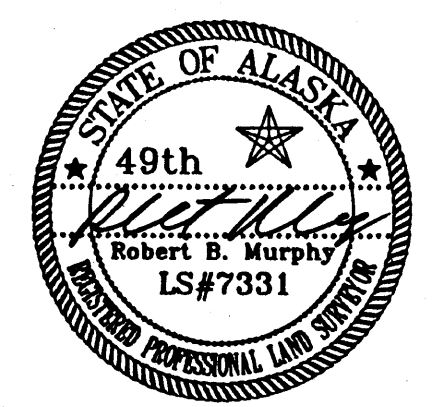
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *[Signature]* Date: 7/17/07

RIGHT OF WAY CENTERLINE				
DESC.	STATION	TANGENT/CURVE DATA	NORTHING	EASTING
PT	95+89.04		511805.21	499656.29
		N 37-09-03 E 862.66		
PC	104+51.70		512492.79	500177.26
		DELTA: 08-00-58 LEFT RADIUS: 5729.58 DEGREE: 01-00-00 LENGTH: 801.60 TANGENT: 401.46		
PT	112+53.30		513163.43	500615.16
PC	134+42.16		515075.35	501680.84

CENTERLINE MONUMENTS				
STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
95+94.17	0.05 LT	511809.34	499659.34	P.T.
106+85.43	0.07 RT	512681.88	500314.64	P.O.C. VALLEY BLVD.
106+96.33	0.06 RT	512690.84	500320.85	P.O.C. MENDENHALL BLVD
116+44.67	0.00 RT	513505.29	500805.71	P.O.T. KIMBERLY

EASEMENT	OWNER	AREA	PURPOSE
E-1	JUNEAU & DOUGLAS TELEPHONE CO. (ACS)	523 S.F.	RIGHT OF WAY

PERMIT	OWNER	AREA	PURPOSE
P-1	JUNEAU & DOUGLAS TELEPHONE CO. (ACS)	439 S.F.	CONSTRUCTION ACCESS
P-2	WILLIAM & RUTH NEWMAN	1466 S.F.	RE-GRADE DRIVEWAY CONSTRUCTION ACCESS



**SURVEYOR'S CERTIFICATE**  
 I HEREBY CERTIFY that I am properly registered and licensed to practice land surveying in the State of Alaska and that this plat was made by me or under my supervision. I declare that this plat was based upon the monuments recovered during State of Alaska Locations Survey 08583 dated 2003 and that all dimensions and other details are accurate.  
 Robert B. Murphy LS-7331 Date: 7-21-03

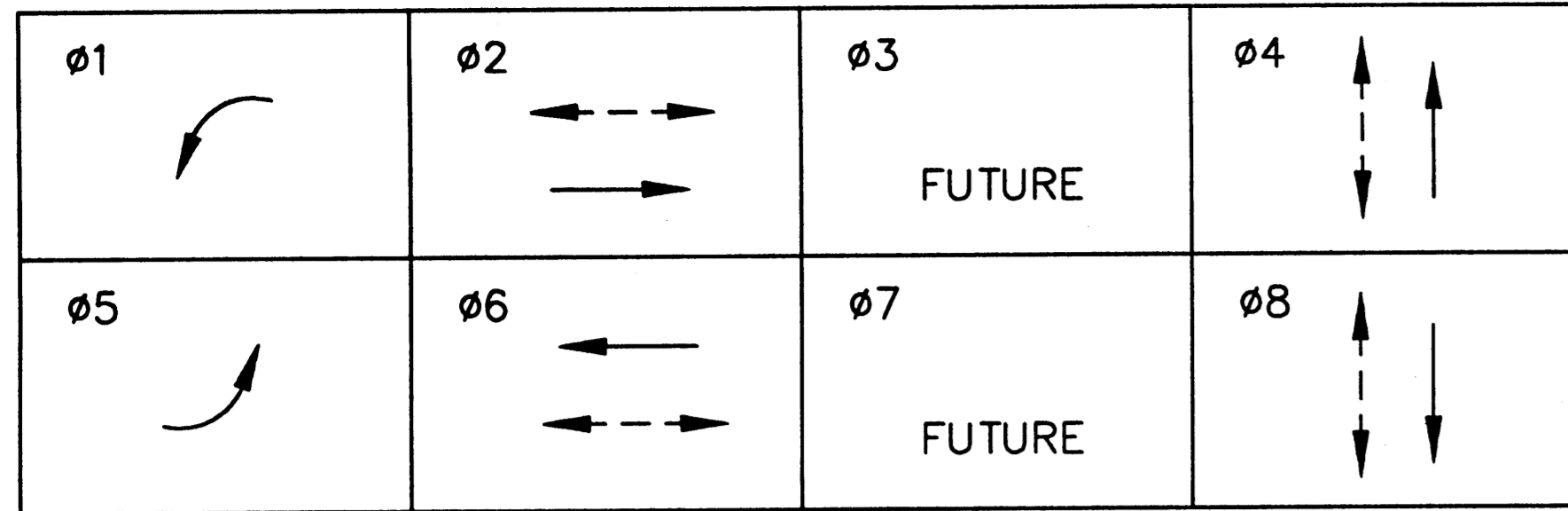
DATE	REVISIONS	BY
7/03	DELETE E-2, ENLARGE P-2	ROW
6/03	REVISED P-2	ROW
6/03	REVISED E-1, P-1	ROW

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 &  
 PUBLIC FACILITIES  
 RIGHT OF WAY MAP  
 ALASKA PROJECT NO.  
 HRO-0966(24) 68583  
 JUNEAU - LOOP RD/VALLEY BLVD/MENDENHALL BLVD SIGNAL

DRAWN	ROW	DATE	4/2003	SCALE	1"=20'
CHECKED		DATE		SHEET	R1 OF 46

G:\nu\68583\rv\Loop-Valley-Mend.dwg

PHASE DIAGRAM

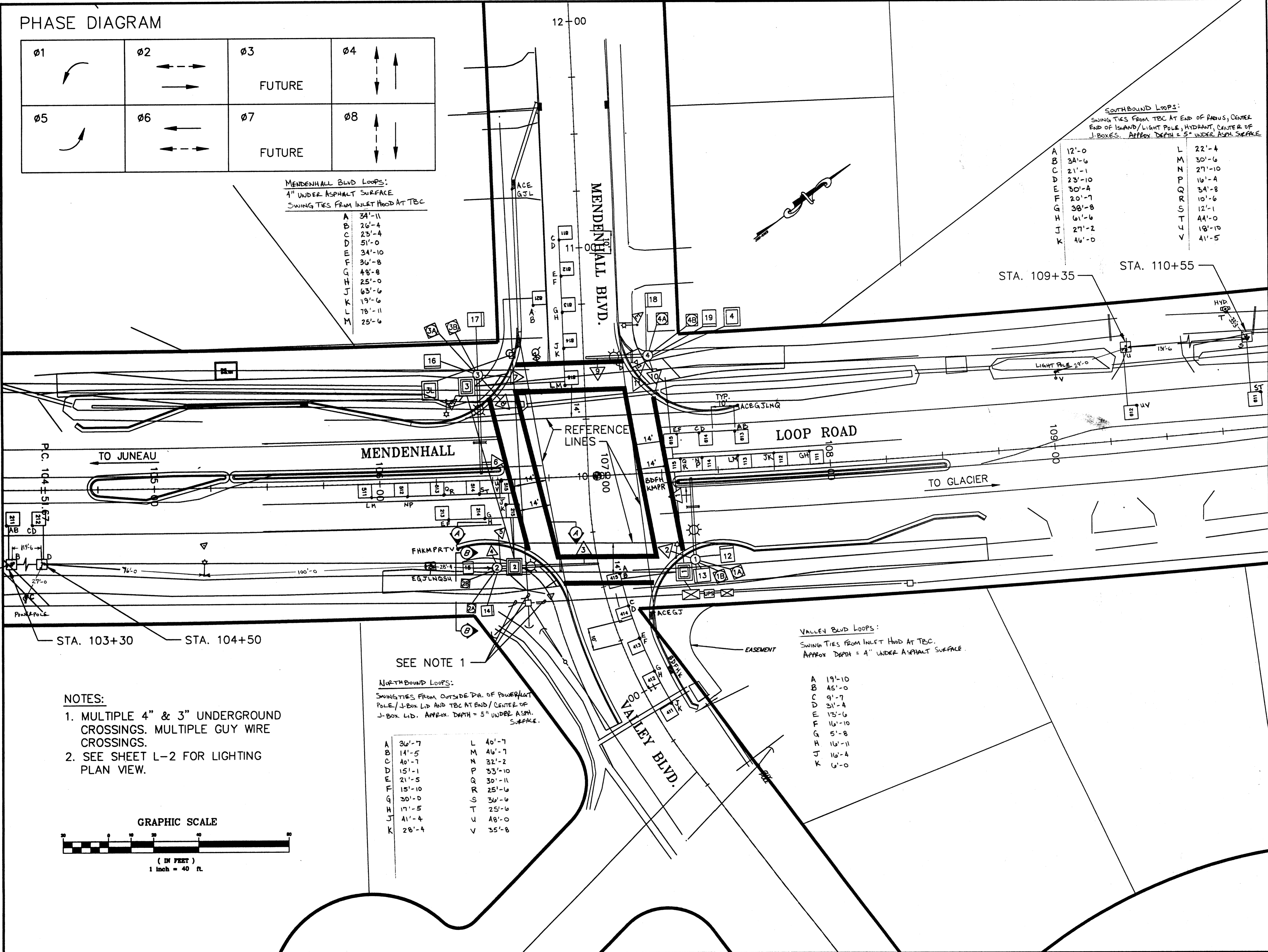


MENDENHALL BLVD LOOPS:  
4" UNDER ASPHALT SURFACE  
SWING TIES FROM INLET HOOD AT TBC

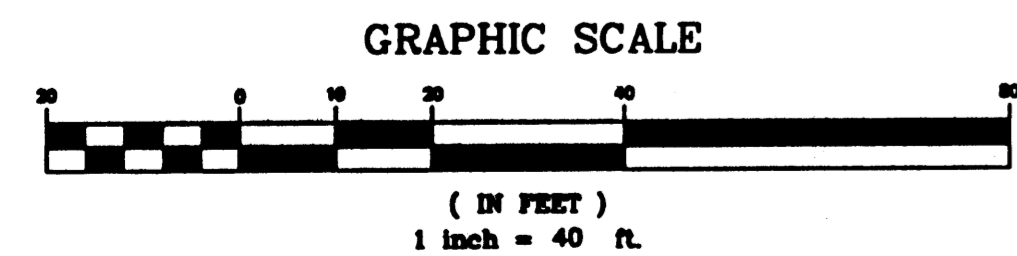
A	34'-11
B	26'-4
C	23'-4
D	51'-0
E	34'-10
F	36'-8
G	48'-8
H	25'-0
I	63'-6
J	19'-6
K	78'-11
L	25'-6

SOUTHBOUND LOOPS:  
SWING TIES FROM TBC AT END OF RADIUS, CENTER  
END OF ISLAND/LIGHT POLE, HYDRANT, CENTER OF  
J-BOXES. APPROX DEPTH = 5" UNDER ASPH. SURFACE

A	12'-0	L	22'-4
B	34'-6	M	30'-6
C	21'-1	N	27'-10
D	23'-10	O	16'-4
E	30'-4	P	34'-8
F	20'-7	Q	10'-6
G	38'-8	R	12'-1
H	61'-6	S	44'-0
J	27'-2	T	18'-10
K	46'-0	V	41'-5



- NOTES:
- MULTIPLE 4" & 3" UNDERGROUND CROSSINGS. MULTIPLE GUY WIRE CROSSINGS.
  - SEE SHEET L-2 FOR LIGHTING PLAN VIEW.



SEE NOTE 1

NORTHBOUND LOOPS:  
SWING TIES FROM OUTSIDE DIA. OF POWER/LAT  
POLE/J-BOX LID AND TBC AT END/CENTER OF  
J-BOX LID. APPROX. DEPTH = 5" UNDER ASPH.  
SURFACE.

A	26'-7	L	40'-7
B	14'-5	M	46'-7
C	40'-7	N	32'-2
D	15'-1	P	33'-10
E	21'-5	Q	30'-11
F	15'-10	R	25'-6
G	30'-0	S	36'-6
H	17'-5	T	25'-6
J	41'-4	U	48'-0
K	28'-4	V	35'-8

VALLEY BLVD LOOPS:  
SWING TIES FROM INLET HOOD AT TBC.  
APPROX DEPTH = 4" UNDER ASPHALT SURFACE.

A	19'-10
B	45'-0
C	9'-7
D	31'-4
E	13'-6
F	16'-10
G	5'-8
H	16'-11
J	16'-4
K	6'-0

PATH:  
Q:\Jnu\68583\PlanSet\S-signal1.dwg  
Tue, 29/Jul/03 11:21AM rksnyder  
PLOT:  
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/ VALLEY  
BLVD/ MENDENHALL BLVD  
SIGNAL  
PROJECT NO. 68583

SIGNALIZATION PLAN VIEW

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
Date: 7/17/04

DESIGNED BY: K. MATTSO

CHECKED BY: P. PURVES  
DRAWN BY: D. STEVENS

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING  
SERVICES DIVISION

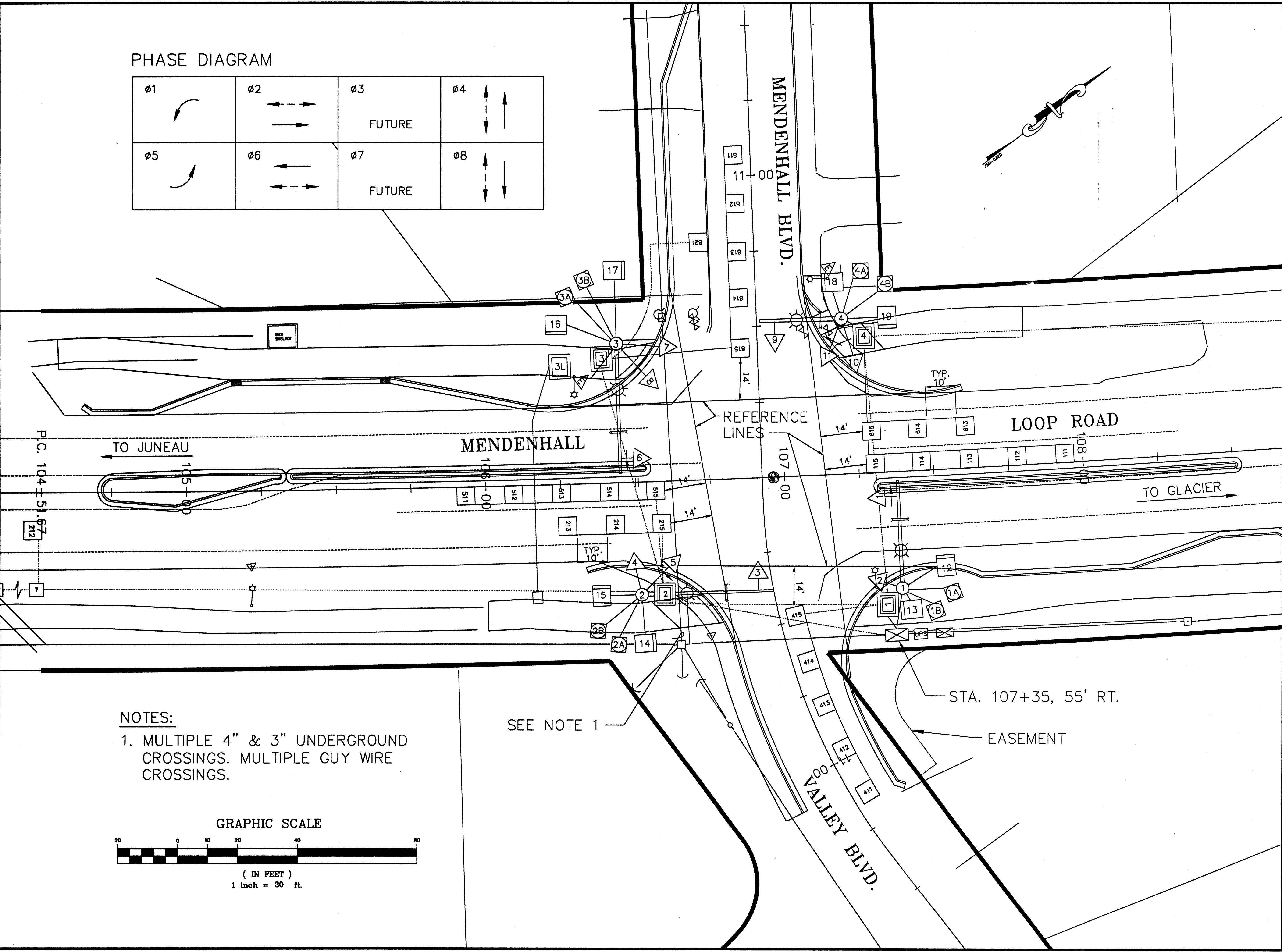
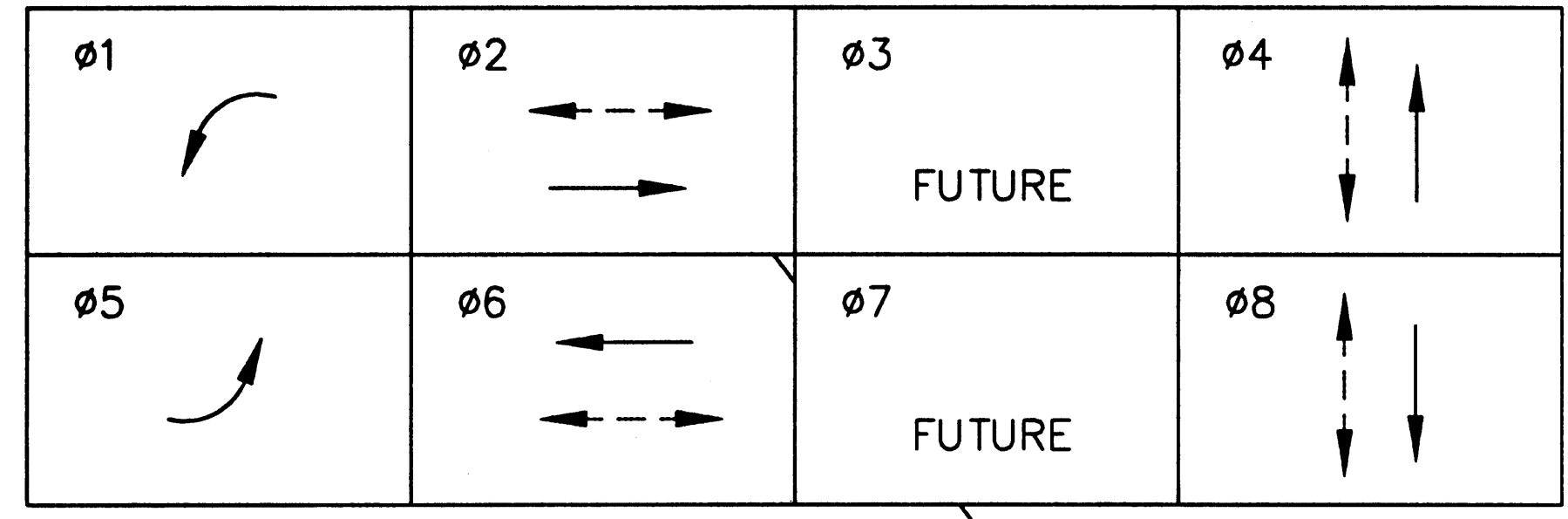
JNU-LOOP RD/ VALLEY  
BLVD/ MENDENHALL BLVD  
SIGNAL  
PROJECT NO. 68583  
SIGNALIZATION PLAN VIEW

PROJECT DESIGNATION NUMBER	
HRO-0966(24) / 68583	
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
S1	46

ADDENDUM NUMBER  
 ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

PHASE DIAGRAM



JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583  
 SIGNALIZATION PLAN VIEW

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the work as constructed.  
 PE: *[Signature]* Date: 3/1/04

DESIGNED BY: K. MATTSON



CHECKED BY: R. PURVES  
 DRAWN BY: D. STEVENS

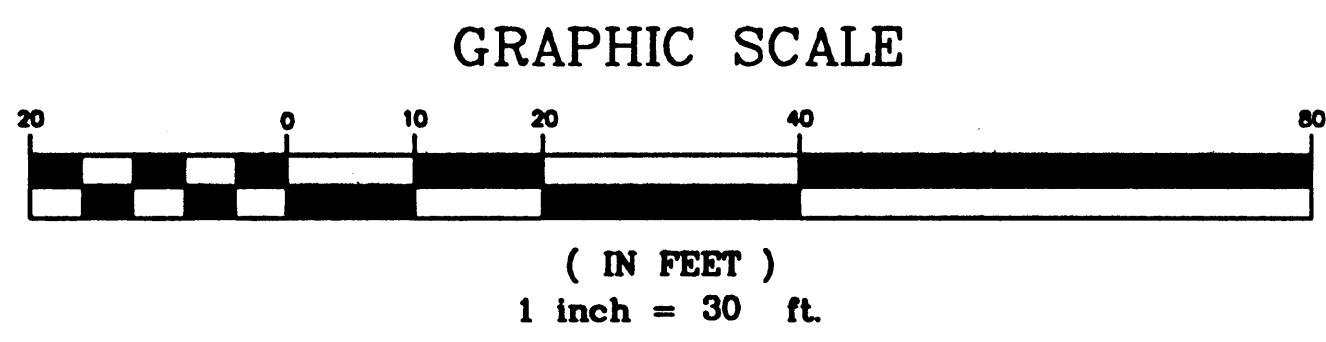
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583  
 SIGNALIZATION PLAN VIEW

PROJECT DESIGNATION NUMBER  
 HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
S2	46

NOTES:  
 1. MULTIPLE 4" & 3" UNDERGROUND CROSSINGS. MULTIPLE GUY WIRE CROSSINGS.



SEE NOTE 1

STA. 107+35, 55' RT.

EASEMENT

**LOW VOLTAGE SIGNAL CONDUCTOR**

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

**120 VOLT SIGNAL CONDUCTOR**

- 5C: PEDESTRIAN AND STANDARD SIGNAL HEADS
- 7C: 5 SECTION SIGNAL HEADS

**LIGHTING AND POWER CONDUCTOR**

- 3C#X: LIGHTING OR SIGNAL POWER

THE NUMBER PRECEDING THE CABLE DESIGNATION INDICATES THE NUMBER OF CABLES TO BE INSTALLED.

**LEGEND**

- 2 TYPE IA J-BOX
- 2 TYPE II J-BOX
- 2 TYPE III J-BOX
- 2" RIGID METAL CONDUIT  
X"=DIAMETER IN INCHES
- OPTICOM DETECTOR
- 515 LOOP DETECTOR
- 514 BICYCLE LOOP DETECTOR
- (5) NUMBERS IN PARENTHESIS REFER TO THE NUMBER OF CONDUITS AND CABLES OF THAT SIZE

**NOTES**

1. A BARE STRANDED GROUND CONDUCTOR SHALL BE INSTALLED IN ALL CONDUIT AND ATTACHED TO POLES, CONDUIT AND BUSHINGS, ETC.
2. INSTALLATION AND WIRING REQUIREMENTS FOR THE U.P.S. SHALL BE PER THE MANUFACTURER AND THE PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL INSTALL ALL NECESSARY WIRING AND CONDUIT TO COMPLETE THE TRAFFIC SIGNAL SYSTEM.
3. SEE SHEET L-3 FOR ILLUMINATION SCHEMATIC.
4. INSTALL A NEW NEUTRAL BUS BAR IN THE SIGNAL CABINET AND ISOLATE THE NEUTRAL FROM THE HEATER, LIGHT, FAN AND AUXILLARY PANEL. THE HEATER, FAN, LIGHT AND AUXILLARY SHALL BE WIRED DIRECTLY FROM THE LOAD CENTER ON A SEPARATE 40A CIRCUIT. WIRING SHALL BE 3C#8.

PATH:  
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Tue, 01/Feb/05 09:13AM Irobertson  
PLOT:  
PSPACE 1=1(F) OR MSPACE 1=1(F)

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

**JNU-LOOP RD/ VALLEY BLVD/ MENDENHALL BLVD SIGNAL**  
**PROJECT NO. 68583**  
**WIRING SCHEMATIC**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE *[Signature]* Date 2/1/05

DESIGNED BY: K. MATTSO



CHECKED BY: R. PURVES  
 DRAWN BY: D. STEVENS

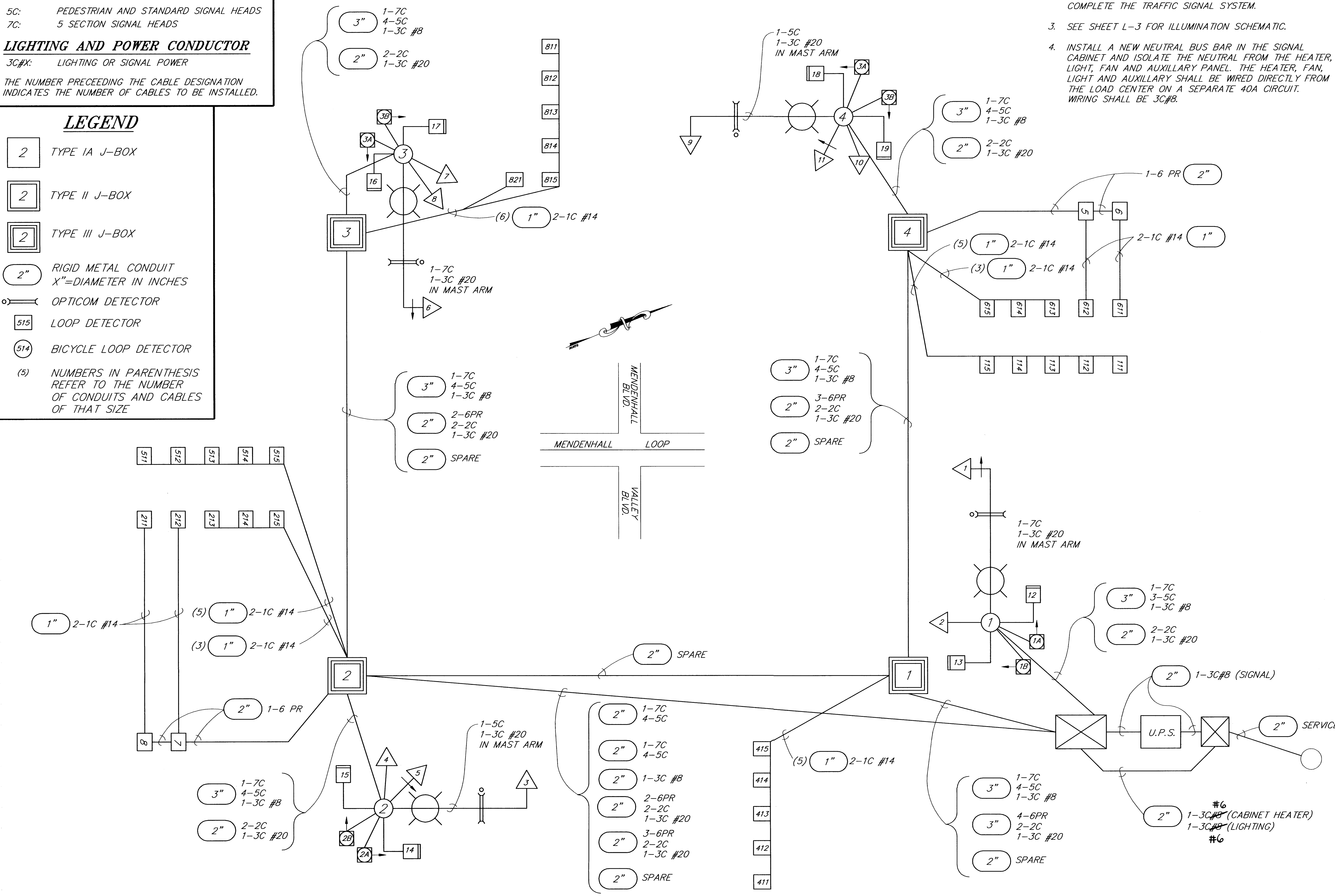
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

**JNU-LOOP RD/ VALLEY BLVD/ MENDENHALL BLVD SIGNAL**  
**PROJECT NO. 68583**

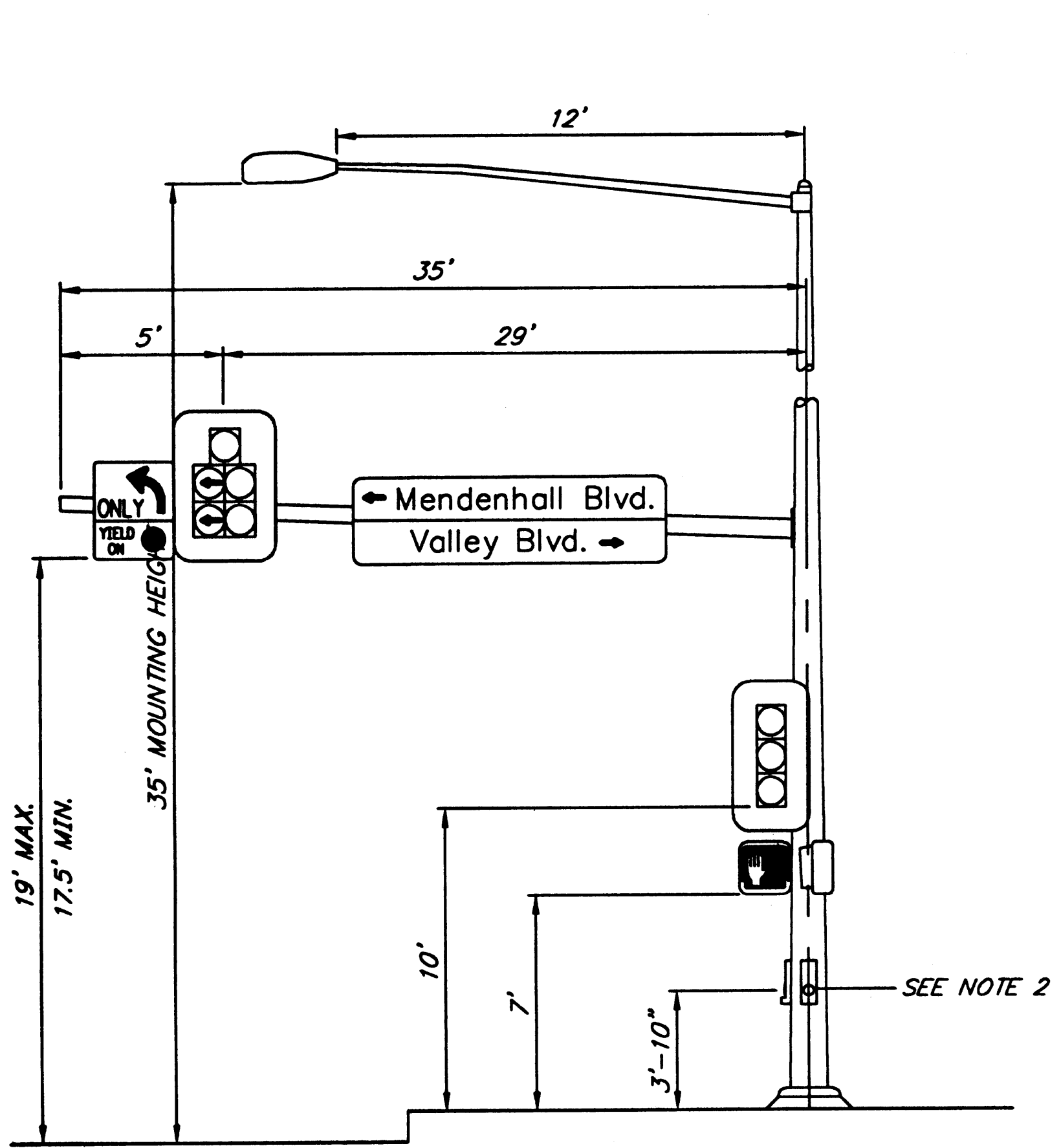
**WIRING SCHEMATIC**  
 PROJECT DESIGNATION NUMBER

**HRO-0966(24) / 68583**

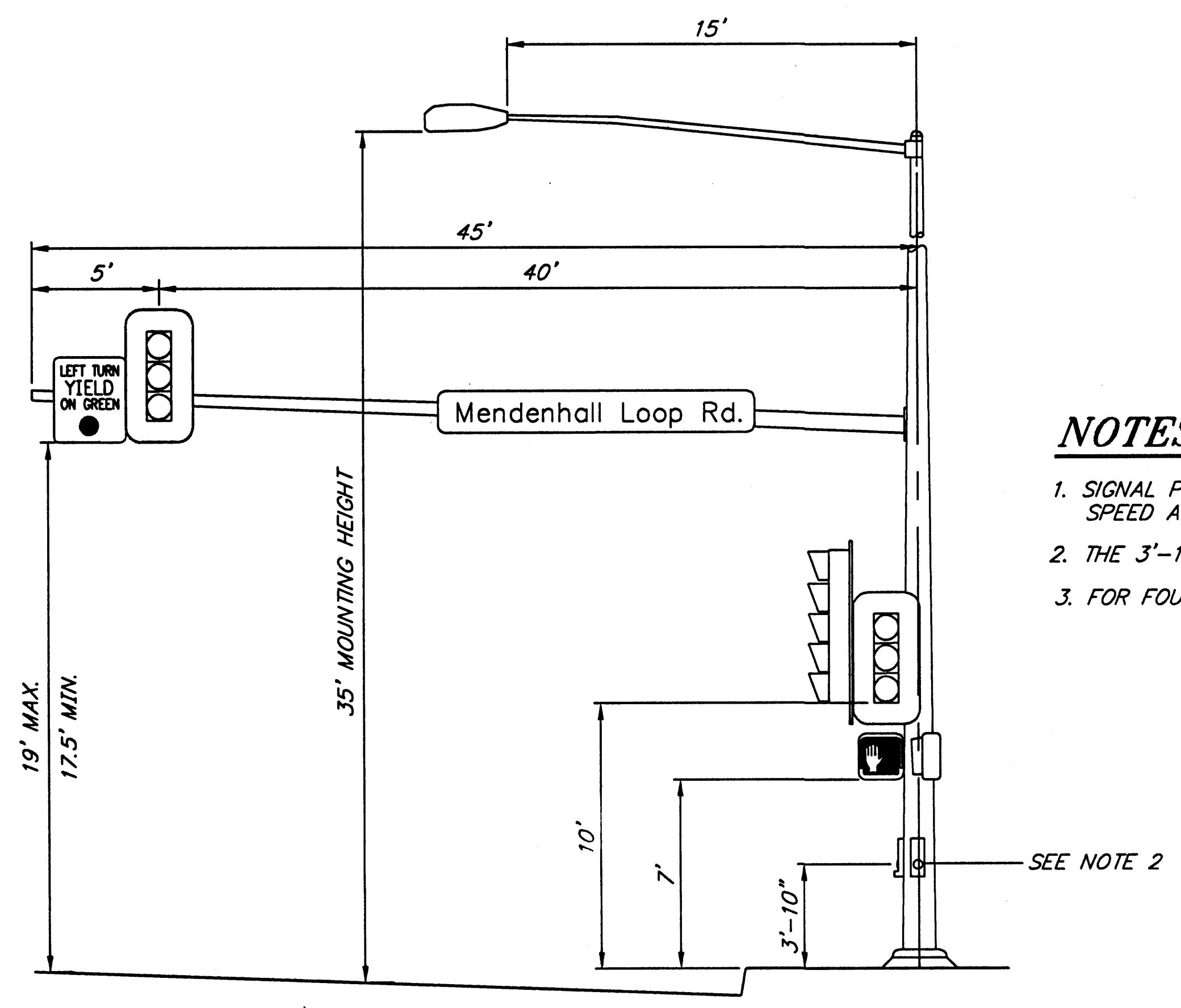
STATE	YEAR
<b>ALASKA</b>	<b>2003</b>
SHEET NUMBER	TOTAL SHEETS
<b>S3</b>	<b>46</b>



ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION



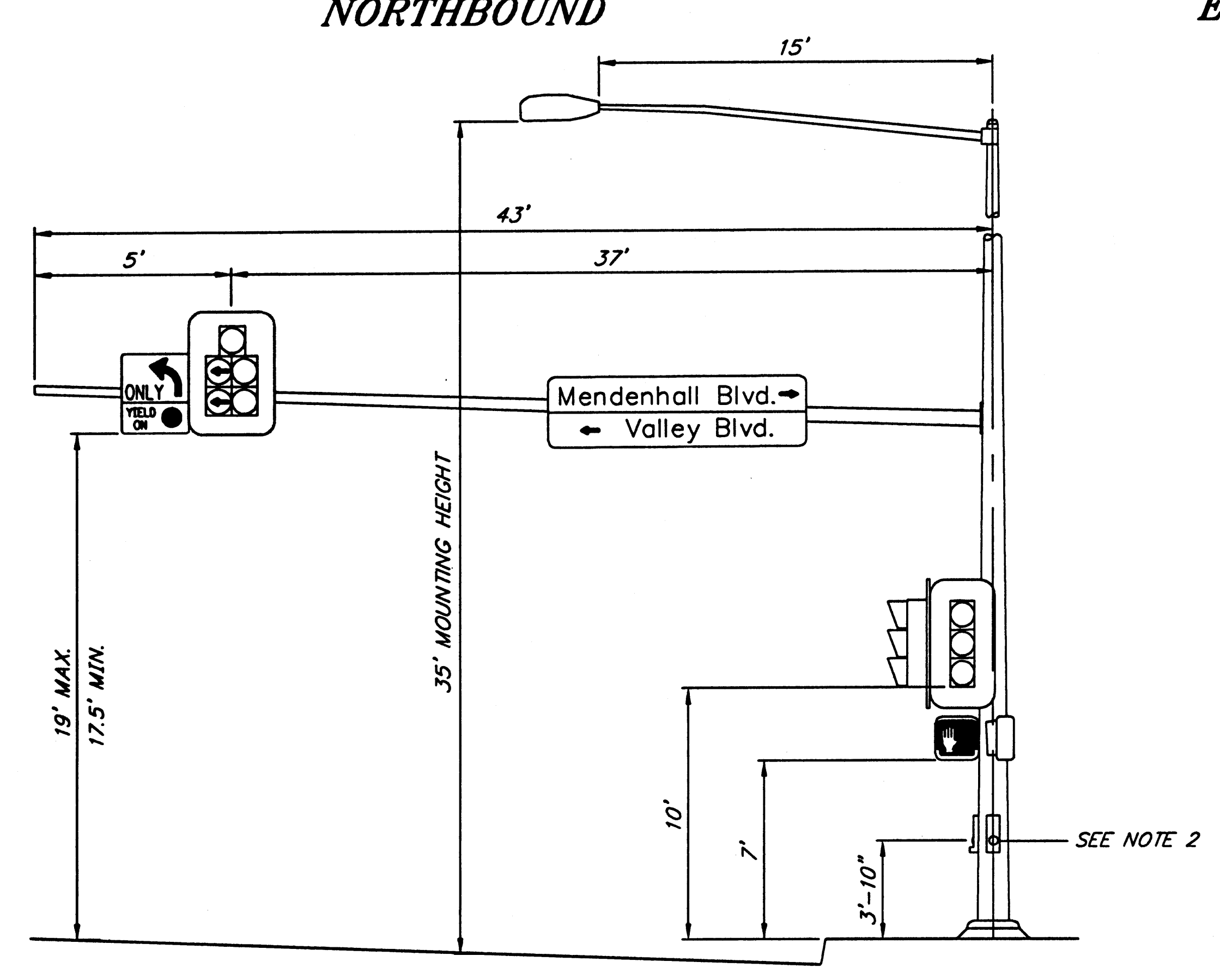
**SIGNAL POLE NO. 1 DETAIL**  
**NORTHBOUND**



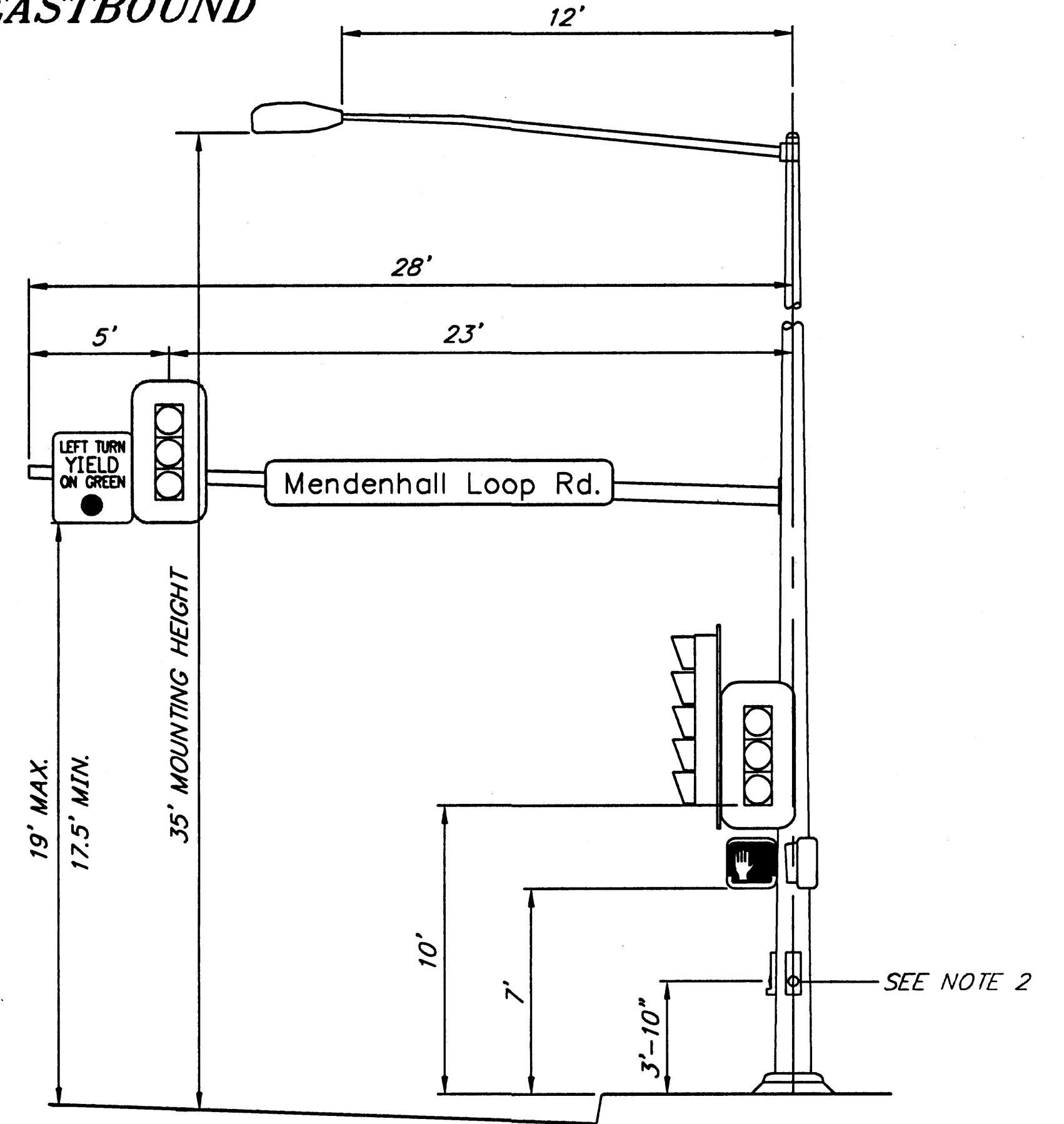
**SIGNAL POLE NO. 2 DETAIL**  
**EASTBOUND**

**NOTES:**

1. SIGNAL POLES, MAST ARMS AND LUMINAIRES SHALL BE DESIGNED FOR 100 MPH WIND SPEED AND SHOP DRAWINGS SHALL BE STAMPED BY A REGISTERED ENGINEER.
2. THE 3'-10" DIMENSION IS TO THE CENTER OF THE BUTTON.
3. FOR FOUNDATION DETAILS, SEE STANDARD DRAWING T-52.15.



**SIGNAL POLE NO. 3 DETAIL**  
**SOUTHBOUND**



**SIGNAL POLE NO. 4 DETAIL**  
**WESTBOUND**

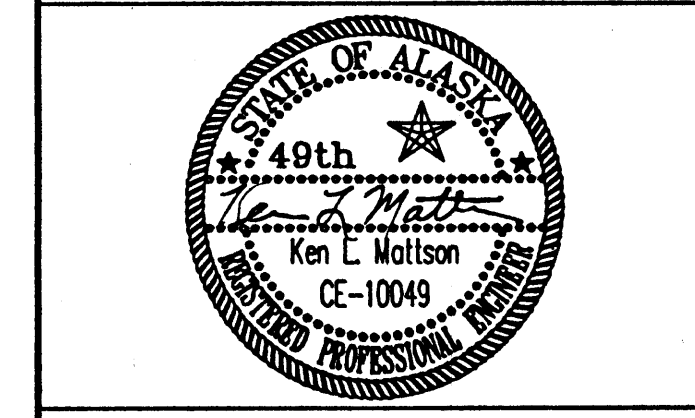
NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

JNU-LOOP RD/ VALLEY BLVD/ MENDENHALL BLVD SIGNAL PROJECT NO. 68583

POLE DETAILS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE *[Signature]* Date 7/17/04

DESIGNED BY: K. MATTSON



CHECKED BY: R. PURVES  
 DRAWN BY: D. STEVENS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

JNU-LOOP RD/ VALLEY BLVD/ MENDENHALL BLVD SIGNAL PROJECT NO. 68583

POLE DETAILS

PROJECT DESIGNATION NUMBER

HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
S4	46

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/VALLEY  
 BLVD/MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

POLE 2 LOCATION DETAIL

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE *[Signature]* Date 7/17/04

DESIGNED BY: K. MATTSO

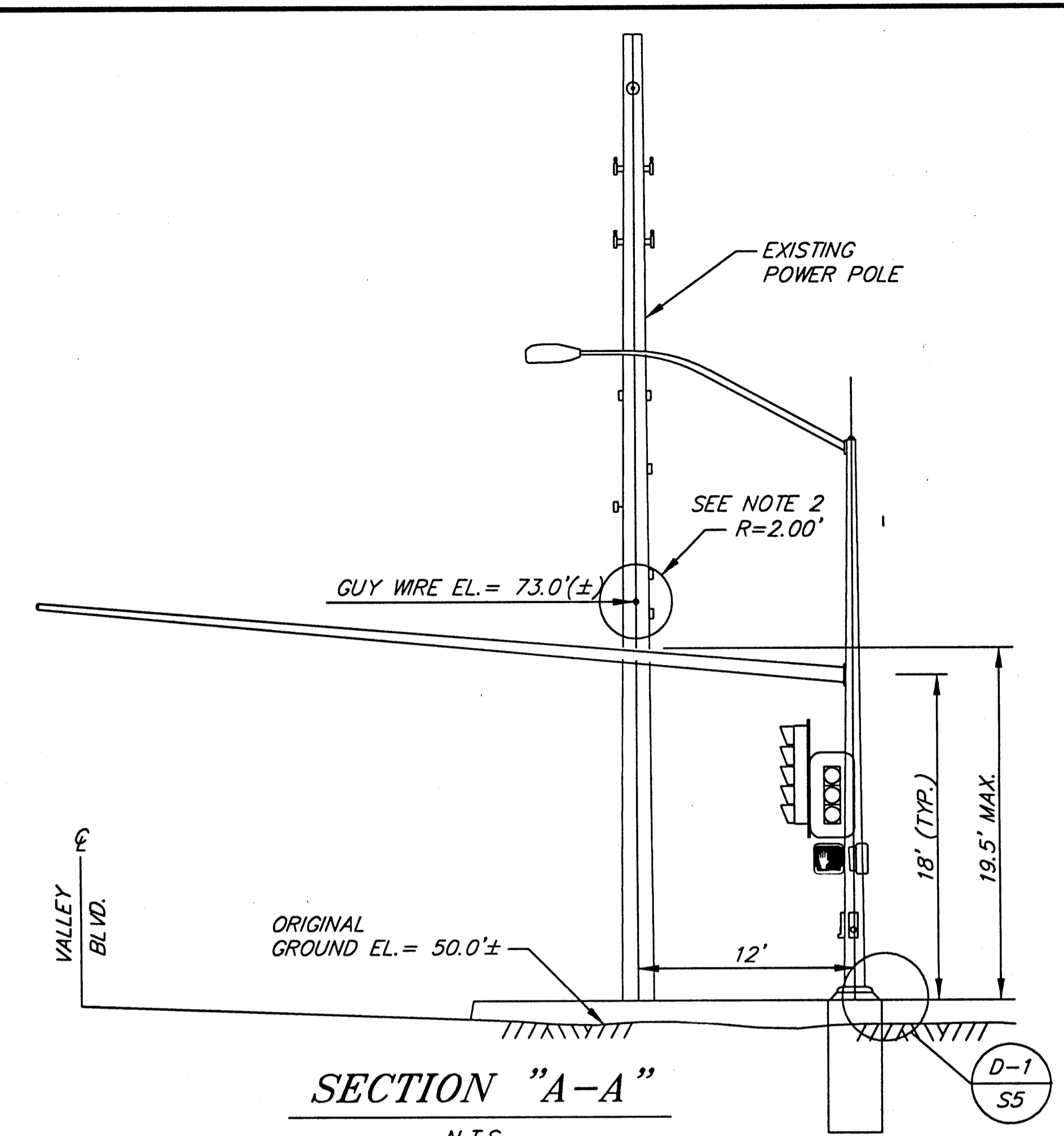
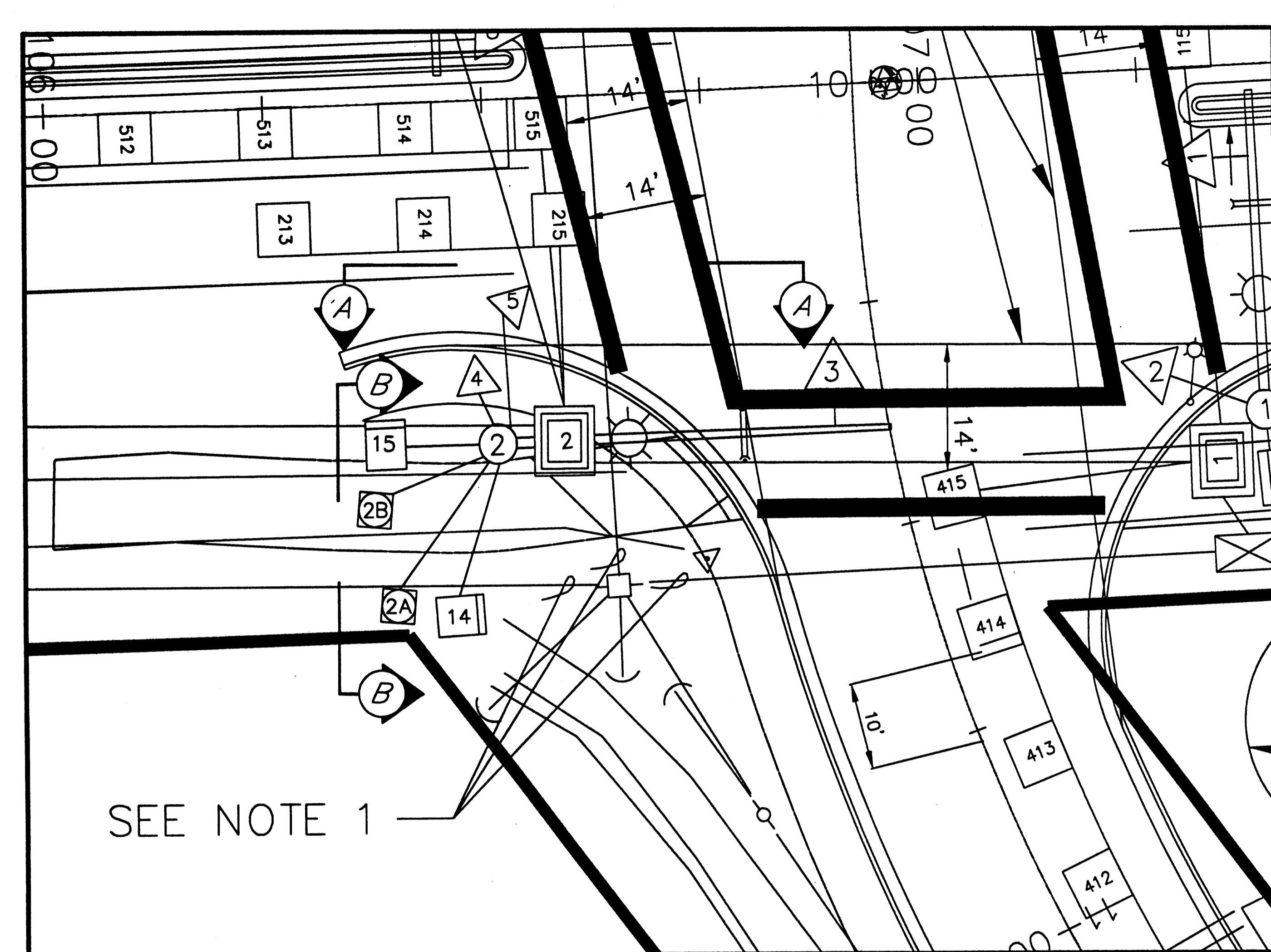


CHECKED BY: P. PURVES  
 DRAWN BY: D. STEVENS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

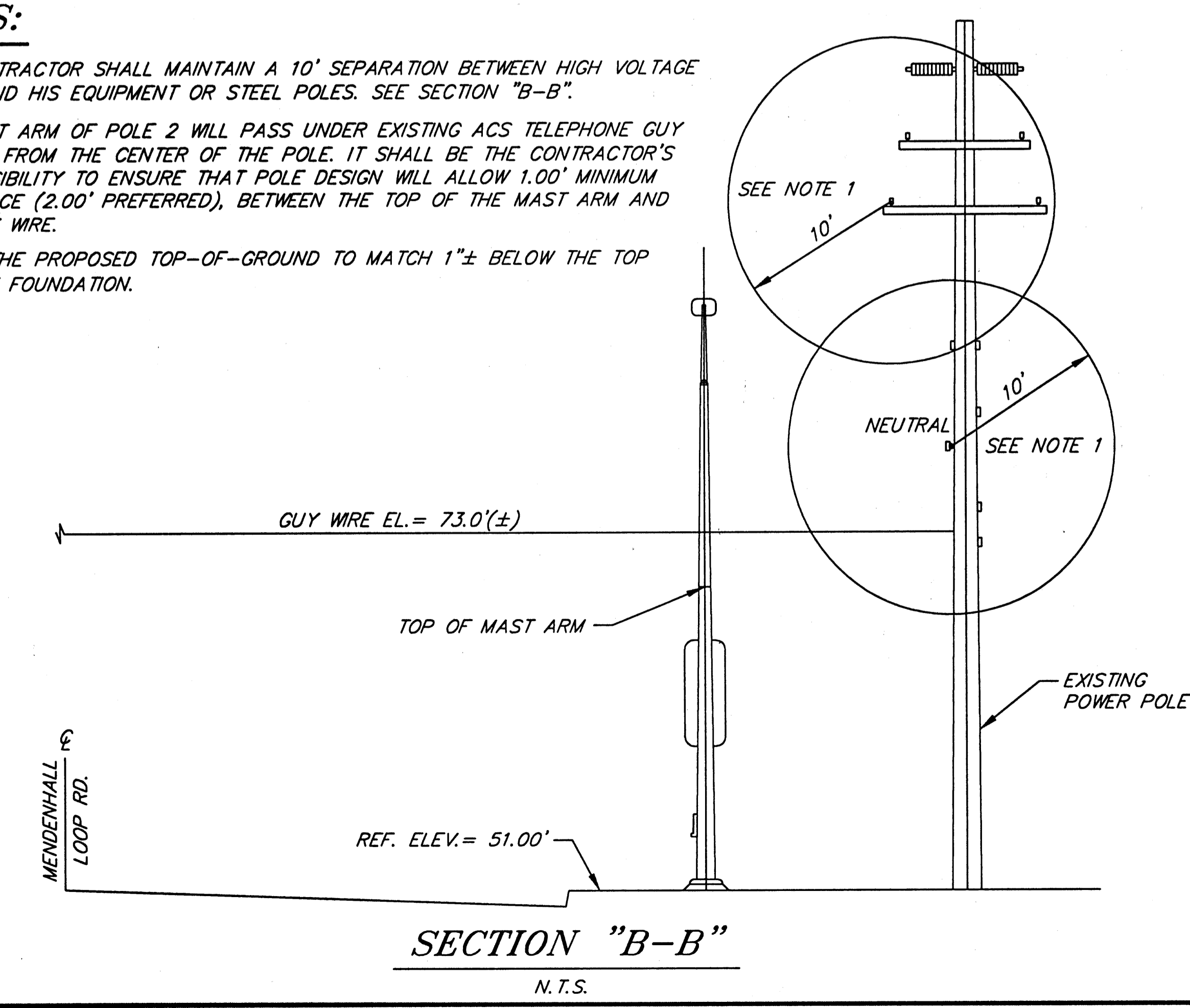
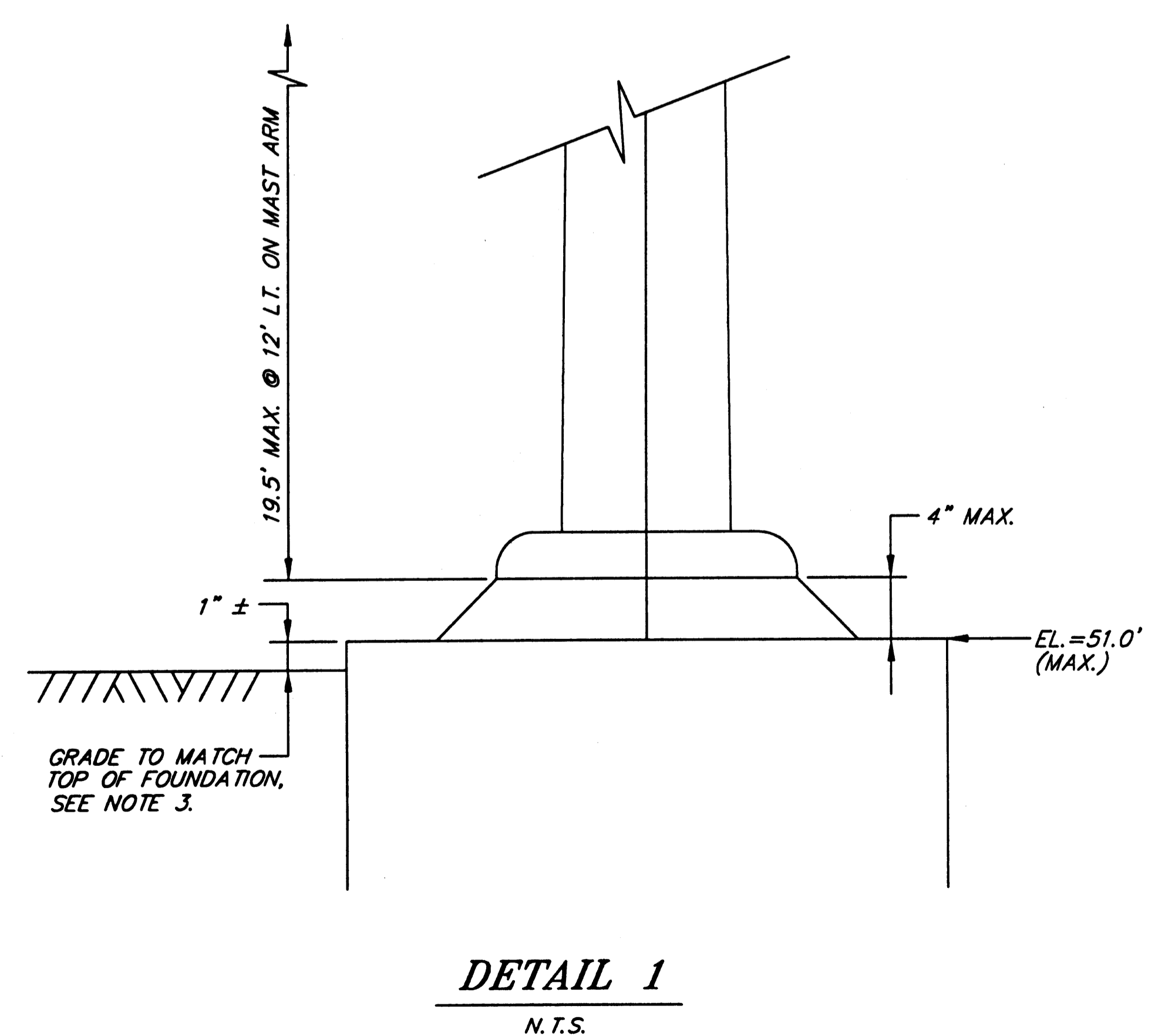
JNU-LOOP RD/VALLEY  
 BLVD/MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583  
 POLE 2 LOCATION DETAIL

PROJECT DESIGNATION NUMBER	
HRO-0966(24) / 68583	
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
S5	46



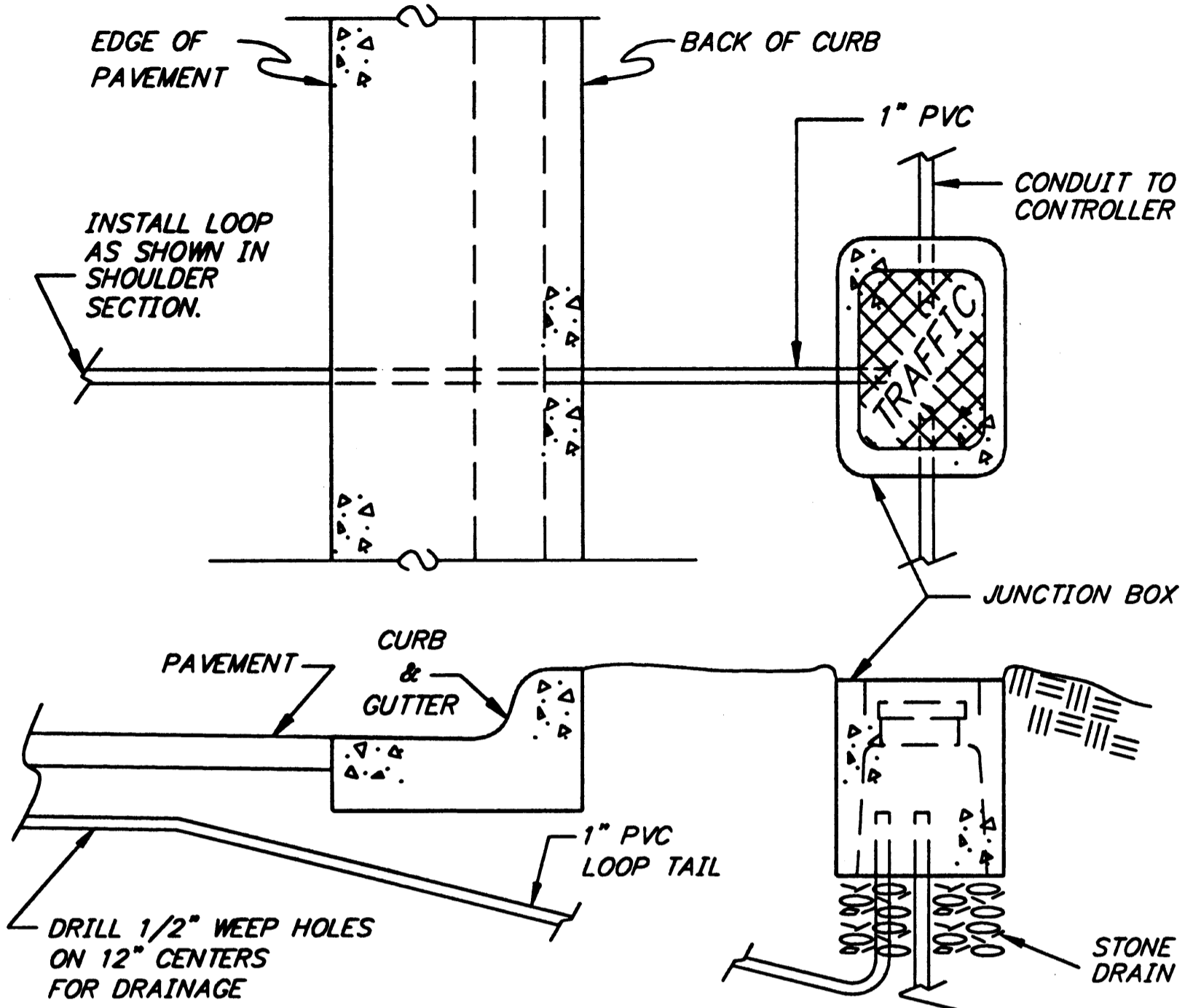
**NOTES:**

1. THE CONTRACTOR SHALL MAINTAIN A 10' SEPARATION BETWEEN HIGH VOLTAGE WIRES AND HIS EQUIPMENT OR STEEL POLES. SEE SECTION "B-B".
2. THE MAST ARM OF POLE 2 WILL PASS UNDER EXISTING ACS TELEPHONE GUY WIRE 12' FROM THE CENTER OF THE POLE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT POLE DESIGN WILL ALLOW 1.00' MINIMUM CLEARANCE (2.00' PREFERRED), BETWEEN THE TOP OF THE MAST ARM AND THE GUY WIRE.
3. GRADE THE PROPOSED TOP-OF-GROUND TO MATCH 1"± BELOW THE TOP OF POLE FOUNDATION.

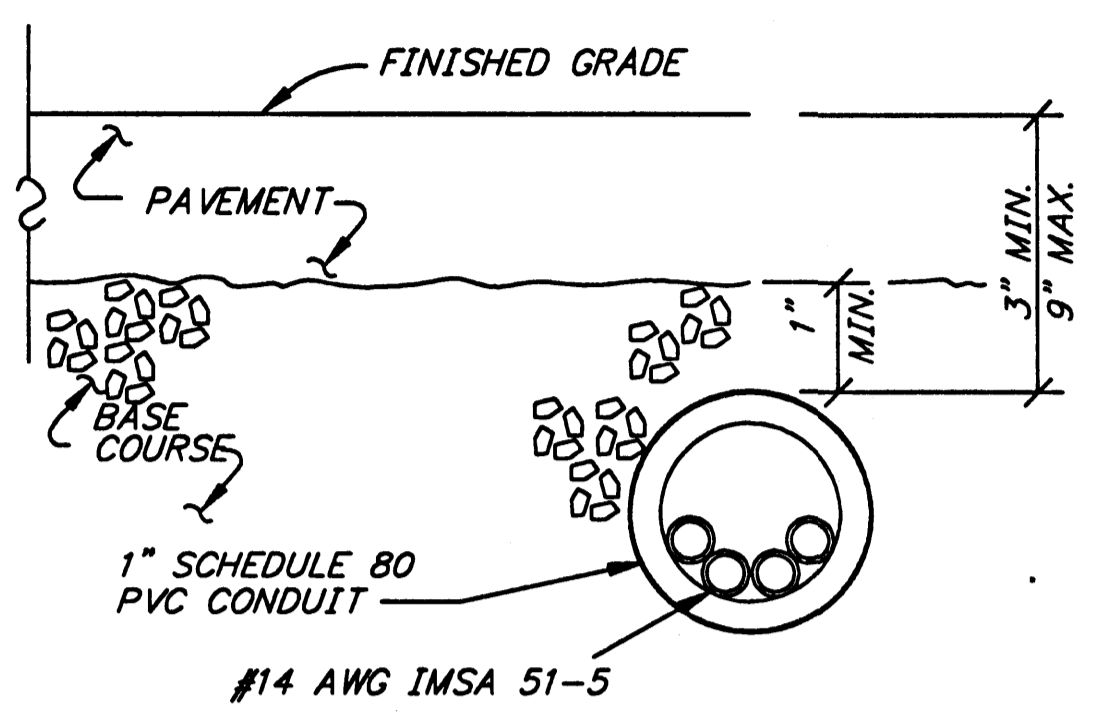


**GENERAL NOTES**

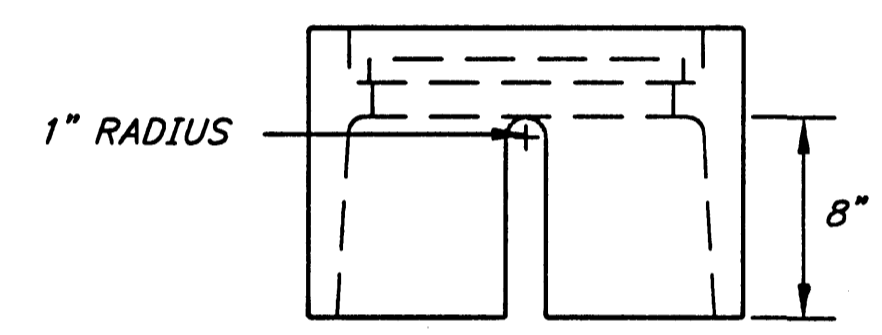
- EACH LOOP DETECTOR SHALL CONSIST OF A SINGLE PIECE OF #14 AWG CONDUCTOR INSTALLED IN 1" SCHEDULE 80 PVC CONDUIT. FORM ALL LOOPS 6 FOOT SQUARE, SOLVENT WELD ALL PVC TO PVC JOINTS. USE TYPE X OUTLET BODIES THAT ARE MADE OF HOT DIP GALVANIZED STEEL TO JOIN THE LOOPS AND TAILS.
- INSTALL 4 TURNS OF CONDUCTOR IN ALL LOOPS AND PROVIDE TAILS THAT EXTEND TO THE JUNCTION BOX SPECIFIED ON THE PLANS. USE #14 AWG CONDUCTOR IN A POLYETHYLENE TUBE CONFORMING TO IMSA SPECIFICATION 51-5. WIND THE TAIL CONDUCTORS TOGETHER AT A RATE OF 4 TWISTS PER FOOT.
- INSTALL ALL LOOP DETECTORS PRIOR TO OVERLAYING EXISTING PAVEMENT OR PAVING A NEW ROADWAY.
- INSTALL ALL LOOP DETECTORS SLOPED TO DRAIN INTO THE JUNCTION BOX THE LOOP TAIL ENTERS.
- NO MINIMUM CLEARANCE IS REQUIRED BETWEEN A LOOP AND A TAIL OR BETWEEN TAILS. LOOP TAILS SHALL NOT CROSS LOOP CONDUITS.
- TEST ALL LOOP DETECTORS FOR CONTINUITY AND INSULATION INTEGRITY PRIOR TO SEALING THE LOOPS UNDER ASPHALT.
- WHEN INSTALLING LOOP DETECTORS IN EXISTING PAVEMENT, CUT THE ASPHALT WITH A SAW AND REMOVE ALL ASPHALT WITHIN THE SAW CUT. MATCH EXISTING PAVEMENT THICKNESS WHEN REPAIRING THE CUTOUT.
- WHERE EXISTING PAVEMENT WILL NOT BE OVERLAID, ENCLOSE ALL LOOPS THAT ENTER A COMMON JUNCTION BOX WITHIN A TRAPEZOIDAL SAW CUT. CUT TO WITHIN 12" OF THE LANE AND EDGE LINES, PRESERVING THESE PAVEMENT MARKINGS; REMOVE THE ASPHALT TO THE LIP OF THE GUTTER WHEN THERE ARE NO EDGE LINES. CUT ACROSS LANE LINES WHEN LOOPS IN ADJACENT LANES ARE SIDE BY SIDE. CUT TRENCHES A MINIMUM OF 3 FEET WIDE WHEN INSTALLING LOOP TAILS ACROSS A LANE; TRENCHES CROSSING A SHOULDER ONLY MAY BE A MINIMUM 12" WIDE.
- HEAT AND TACK COAT THE EDGES OF EXISTING PAVEMENT PRIOR TO PAVING THE CUTOUTS. COMPACT THE ASPHALT MIXTURE WITH A SELF PROPELLED STEEL WHEELED ROLLER. THE ASPHALT MIX SHALL CONFORM TO SECTION 401 OF THE SPECIFICATIONS, AND APPROVED FOR USE BY THE ENGINEER.
- MAINTAIN THE REPLACEMENT ASPHALT MIX AT A TEMPERATURE OF 225° F UNTIL THE TIME OF APPLICATION; IF NECESSARY, STORE THE MIX IN AN INSULATED BOX TO MAINTAIN THE SPECIFIED TEMPERATURE.
- ALL WORK ASSOCIATED WITH INSTALLING LOOP DETECTORS IS CONSIDERED PART OF THE TRAFFIC SIGNAL ITEM AND WILL NOT BE MEASURED SEPARATELY OR PAID FOR DIRECTLY. THIS WORK INCLUDES BUT IS NOT LIMITED TO: LOOP MATERIALS, JUNCTION BOXES, CONDUIT, LOOP LEAD IN CABLE, TESTING, SPLICING, CONDUCTOR LABELING AND SAW CUTTING. ASPHALT REMOVAL AND INSTALLATION OF NEW ASPHALT SHALL BE PAID UNDER THEIR RESPECTIVE PAY ITEMS.
- TO ESTABLISH THE REFERENCE LINES, EXTEND THE RIGHT EDGES OF THE OUTERMOST THROUGH LANES ACROSS THE INTERSECTION. IF THE ROADWAY GEOMETRY IS CURVED, EXTEND THE CURVE THROUGH THE INTERSECTION.



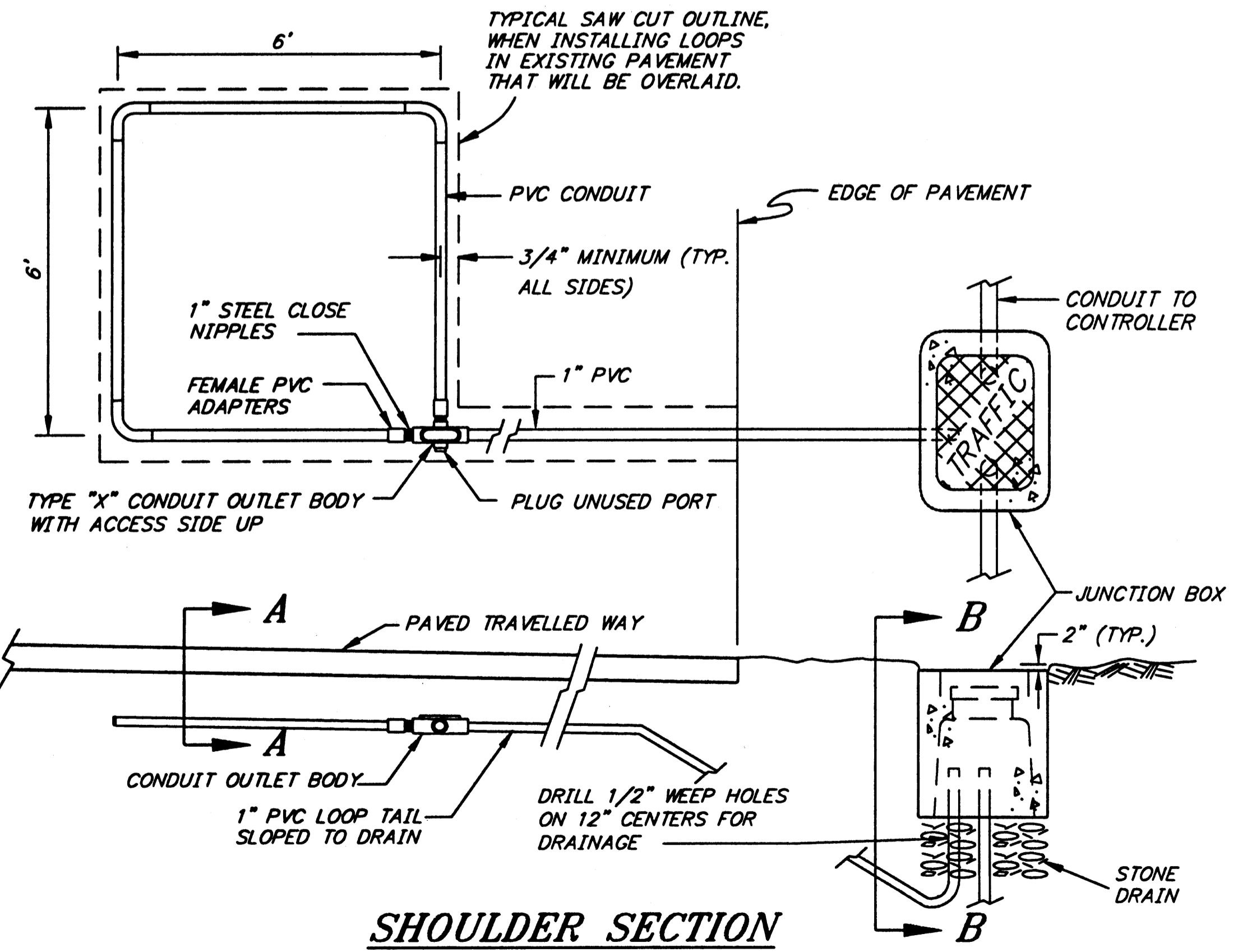
**CURB SECTION**



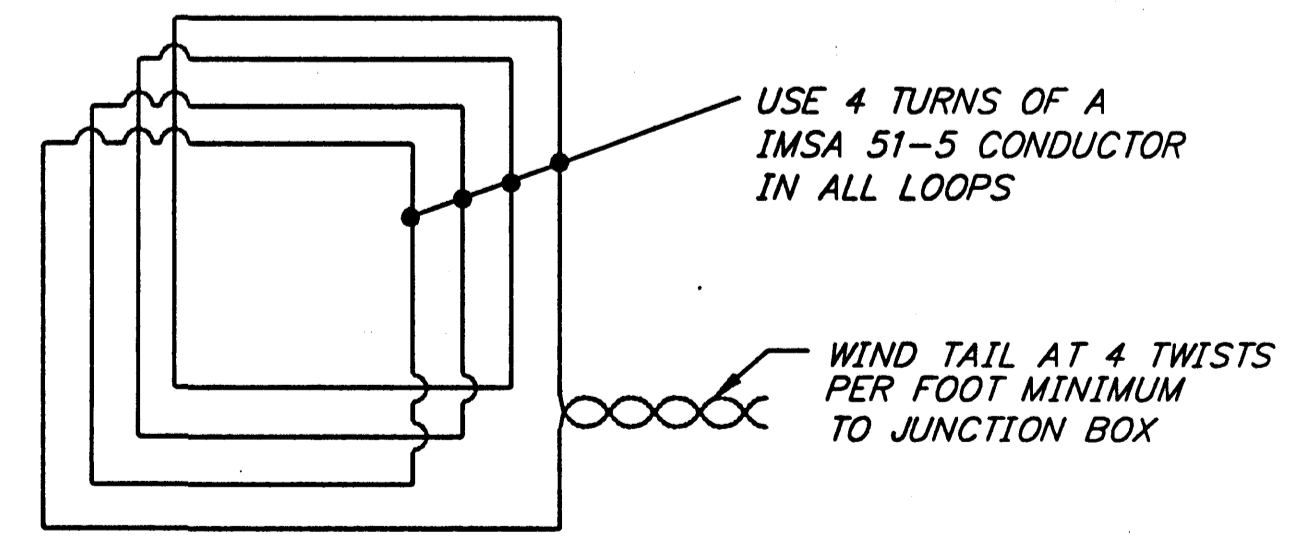
**SECTION A-A**



**VIEW B-B**



**SHOULDER SECTION**



**LOOP WIRING DETAIL**


**TYPICAL PVC CONDUIT ENCASED LOOP DETECTOR INSTALLATION**

FOR INSTALLATION UNDER NEW PAVEMENT

ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583  
 LOOP DETECTOR DETAILS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge,  
 PE *[Signature]* Date *7/1/04*

DESIGNED BY: K. MATTSON  


CHECKED BY: R. PURVES  
 DRAWN BY: D. STEVENS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

LOOP DETECTOR DETAILS  
 PROJECT DESIGNATION NUMBER  
 HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
S6	46

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583  
 MISCELLANEOUS DETAILS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE *[Signature]* Date 7/17/04

DESIGNED BY: K. MATTSON



CHECKED BY: R. PURVES

DRAWN BY: D. STEVENS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583  
 MISCELLANEOUS DETAILS

PROJECT DESIGNATION NUMBER

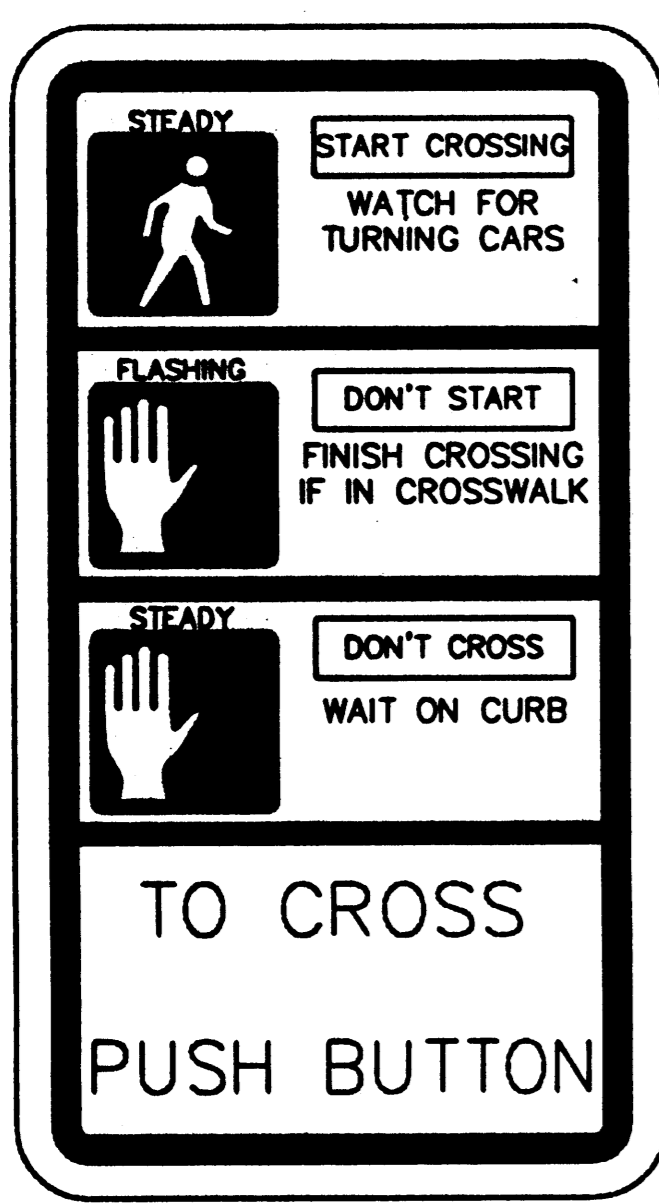
HRO-0966(24) / 68583

STATE YEAR

ALASKA 2003

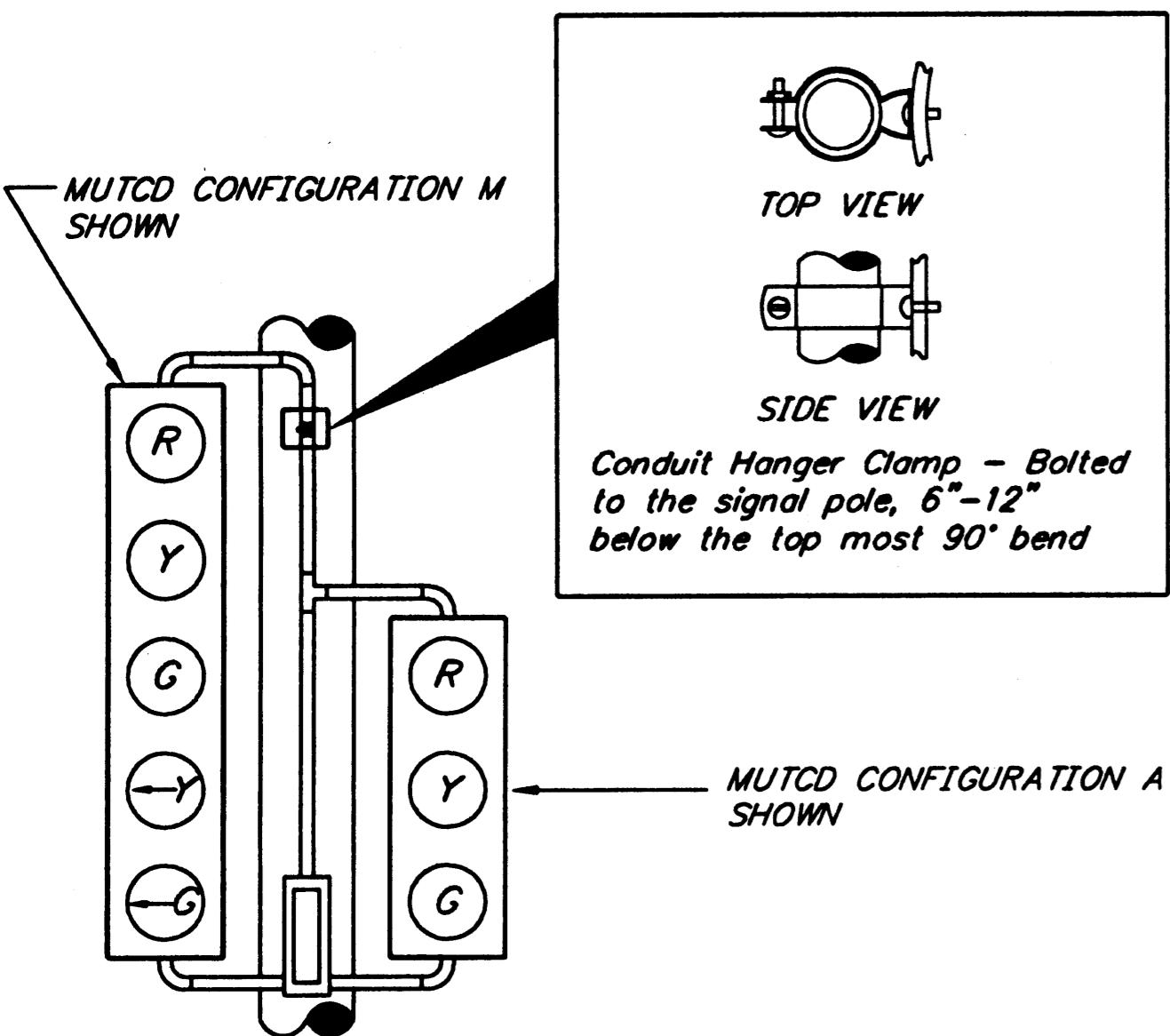
SHEET NUMBER TOTAL SHEETS

S7 46

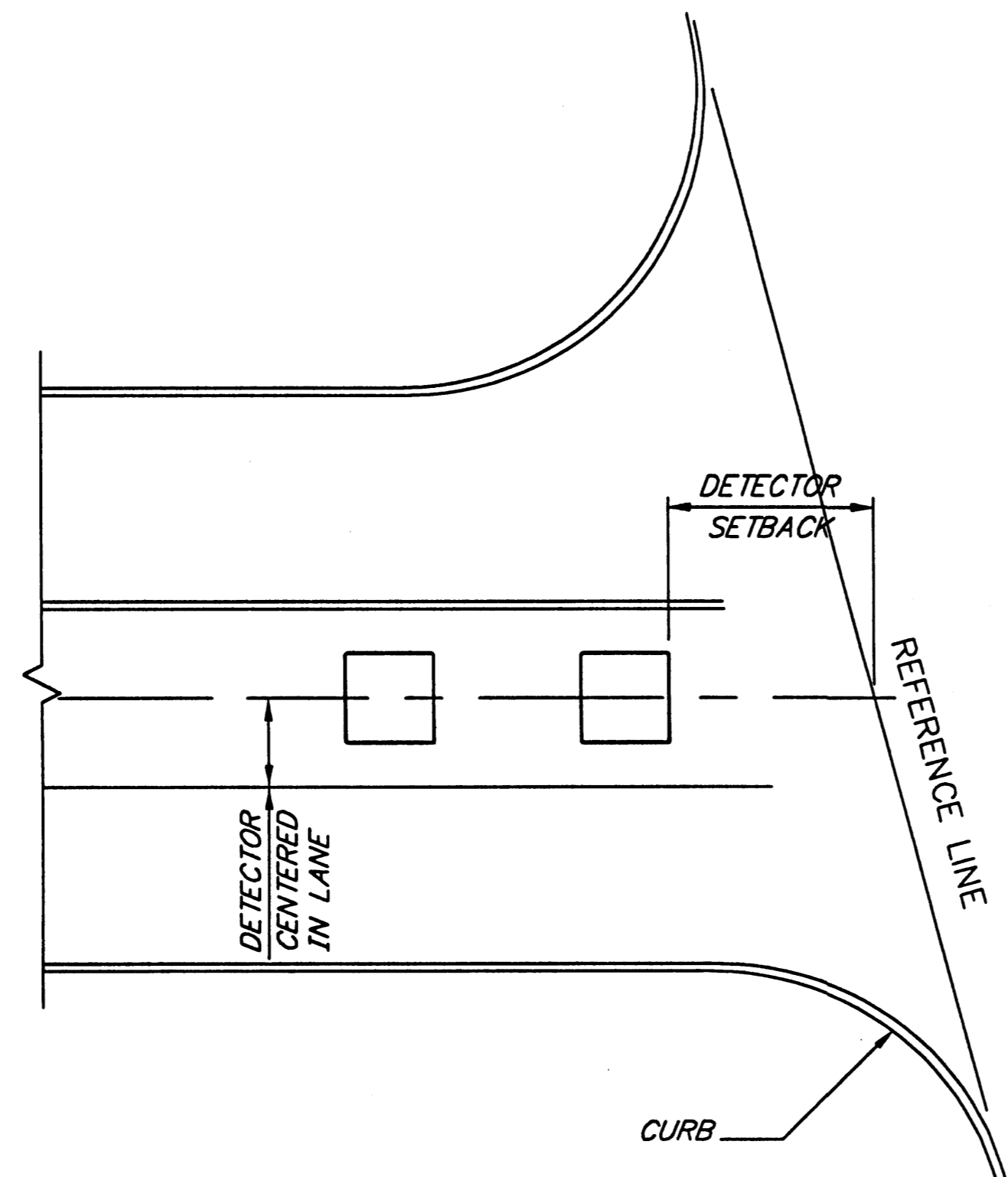


9" x 16"  
 SPECIAL  
 BLACK ON  
 NON-REFLECTORIZED WHITE  
 SIGN LEGEND AND GRAPHICS ARE  
 PROPORTIONAL TO THOSE SHOWN ABOVE  
**SPECIAL PEDESTRIAN SIGN**

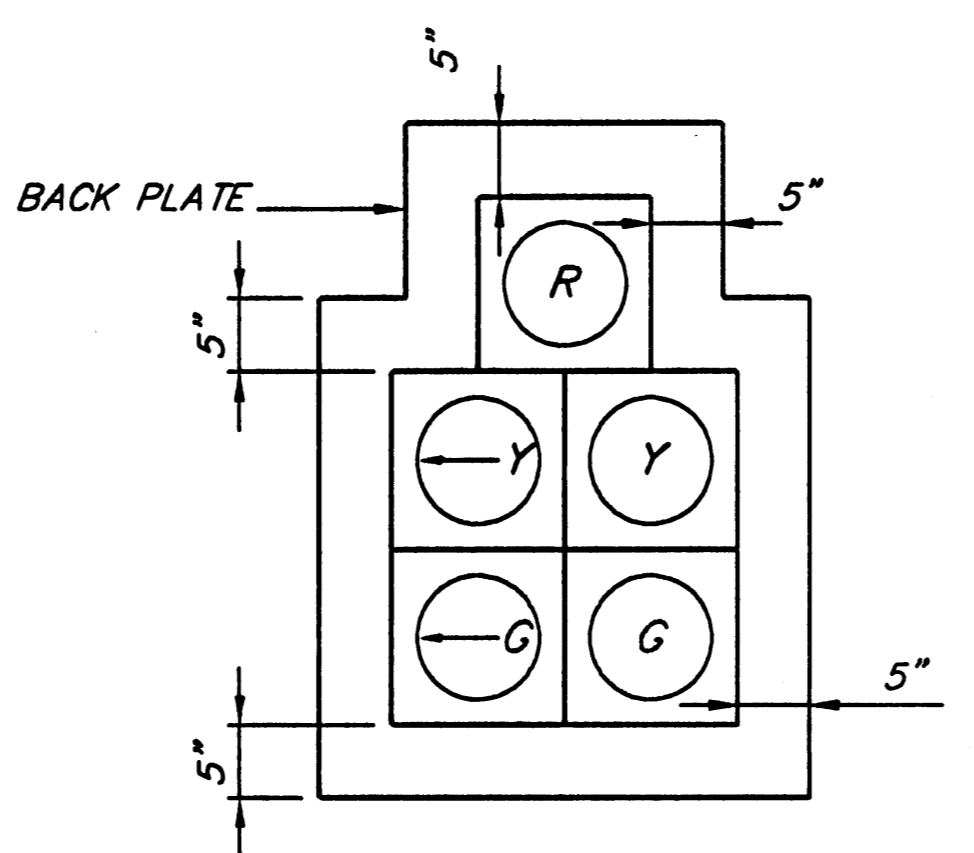
- BAND SIGNS TO POLES ABOVE PEDESTRIAN PUSH BUTTON FRAMES.
- INSTALL ONE SIGN PER POLE. IF TWO BUTTONS, INSTALL AT 45 DEGREES BETWEEN THE TWO.
- SIGNS SHALL BE PAID UNDER 615(1) STANDARD SIGNS.



TYPICAL POST MOUNTING OF TWO  
 UNEQUAL SIZE SIGNAL HEADS  
 (FOR CLARITY, BACK PLATES NOT SHOWN)



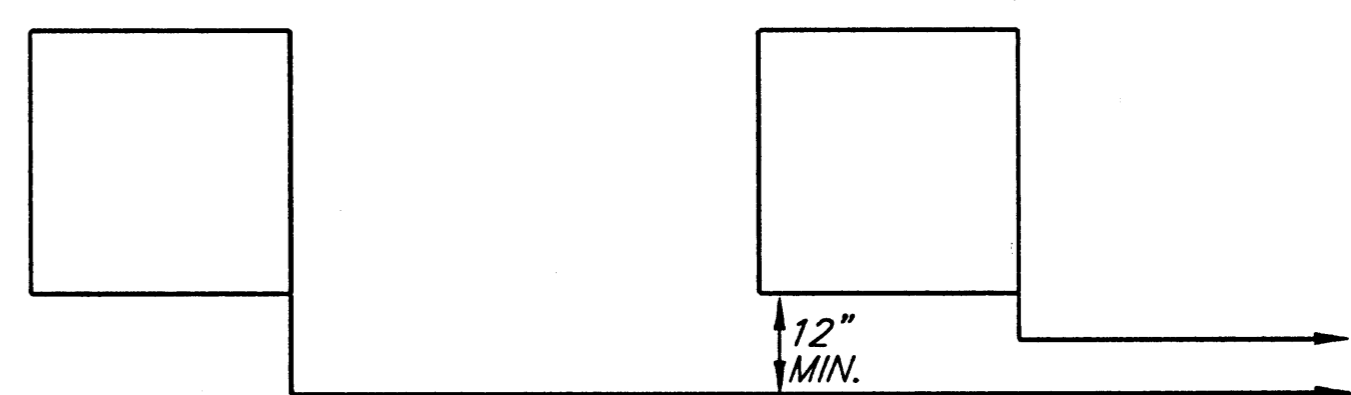
**DETECTOR PLACEMENT**



**5-SECTION SIGNAL CLUSTER  
 HEAD CONFIGURATION  
 (MUTCD configuration S)**

**NOTES**

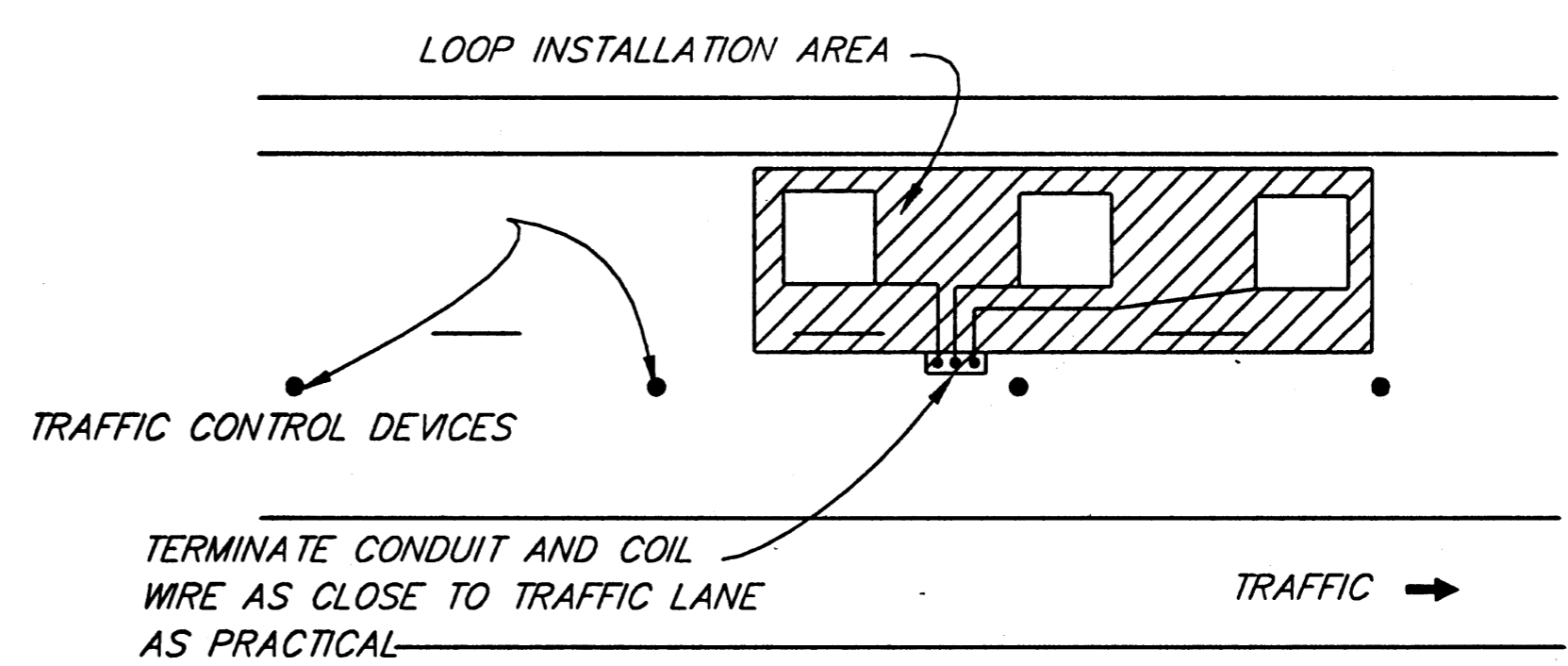
- WHEN LOOP LEAD-IN CONDUIT EXTENDS ACROSS OTHER TRAFFIC LANES WHICH WILL BE OPEN TO TRAFFIC WHILE THE LOOPS ARE BEING INSTALLED, THE CONDUIT SHALL BE EXTENDED AS FAR TOWARD THE OPEN LANE AS POSSIBLE AND EXTRA LOOP CONDUCTOR SHALL BE COILED AT THE EDGE OF THE LANE. THE CONDUIT AND CONDUCTOR SHALL BE EXTENDED ACROSS THE LANE TO THE ROADSIDE J-BOX WHEN THE ADJACENT LANE IS CLOSED TO TRAFFIC AND ITS PAVEMENT IS REMOVED.
- WHEN LOOP LEAD-IN CONDUIT EXTENDS ACROSS OTHER TRAFFIC LANES, LOOP INSTALLATION SHALL START WITH THE LANE FURTHEST FROM THE J-BOX THE CONDUIT WILL TERMINATE IN.
- ALTHOUGH PAVED-OVER LOOPS ARE SHOWN, THE SAME CONSTRUCTION SEQUENCE APPLIES TO LOOPS IN A NARROW SLOT.



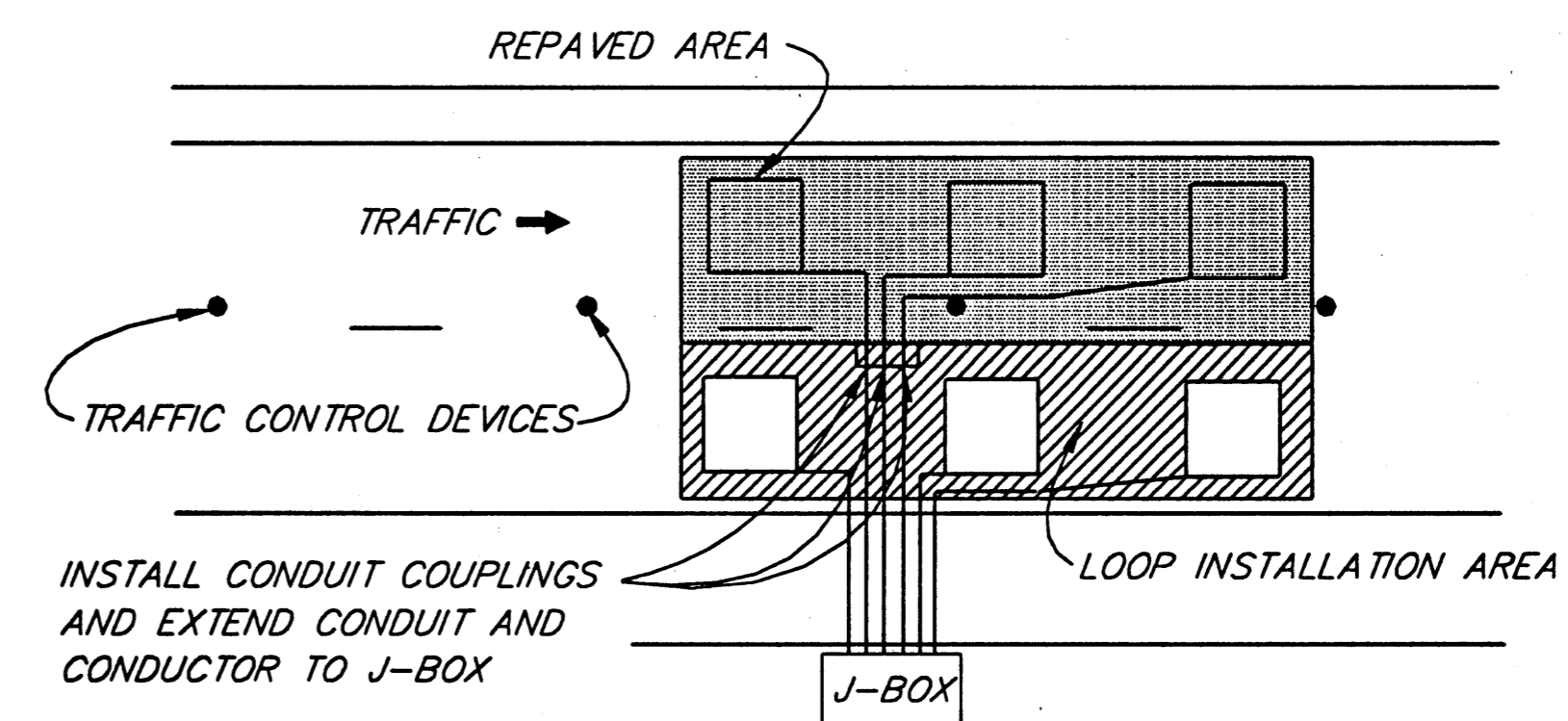
**TYPICAL PLAN VIEW OF  
 MULTIPLE LOOP INSTALLATION**

**GENERAL NOTES**

- ALL NEW CONDUIT EXCEPT FOR THE LOOP DETECTORS SHALL BE RIGID METAL (RMC).

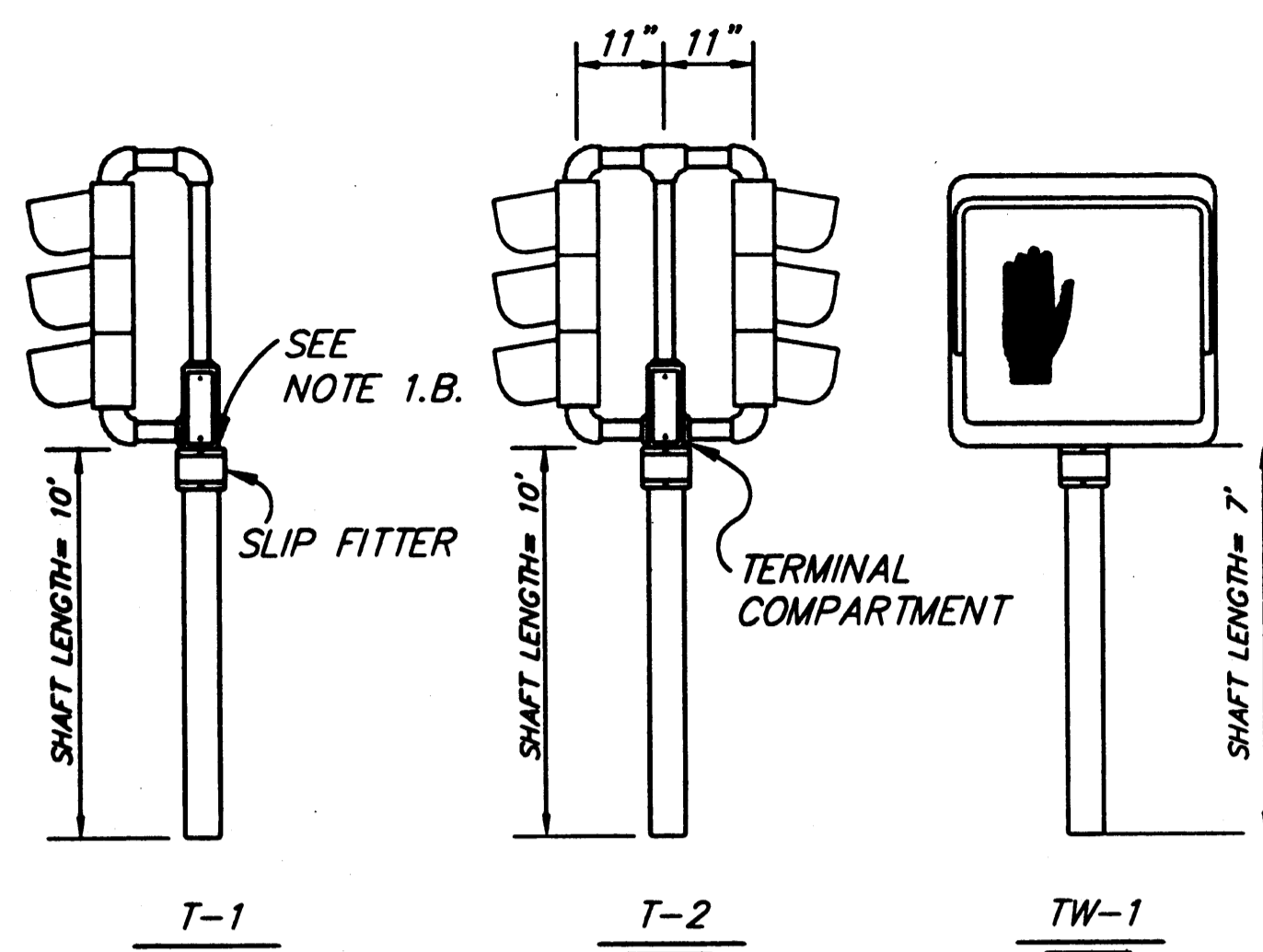


**FAR LANE LOOP INSTALLATION**

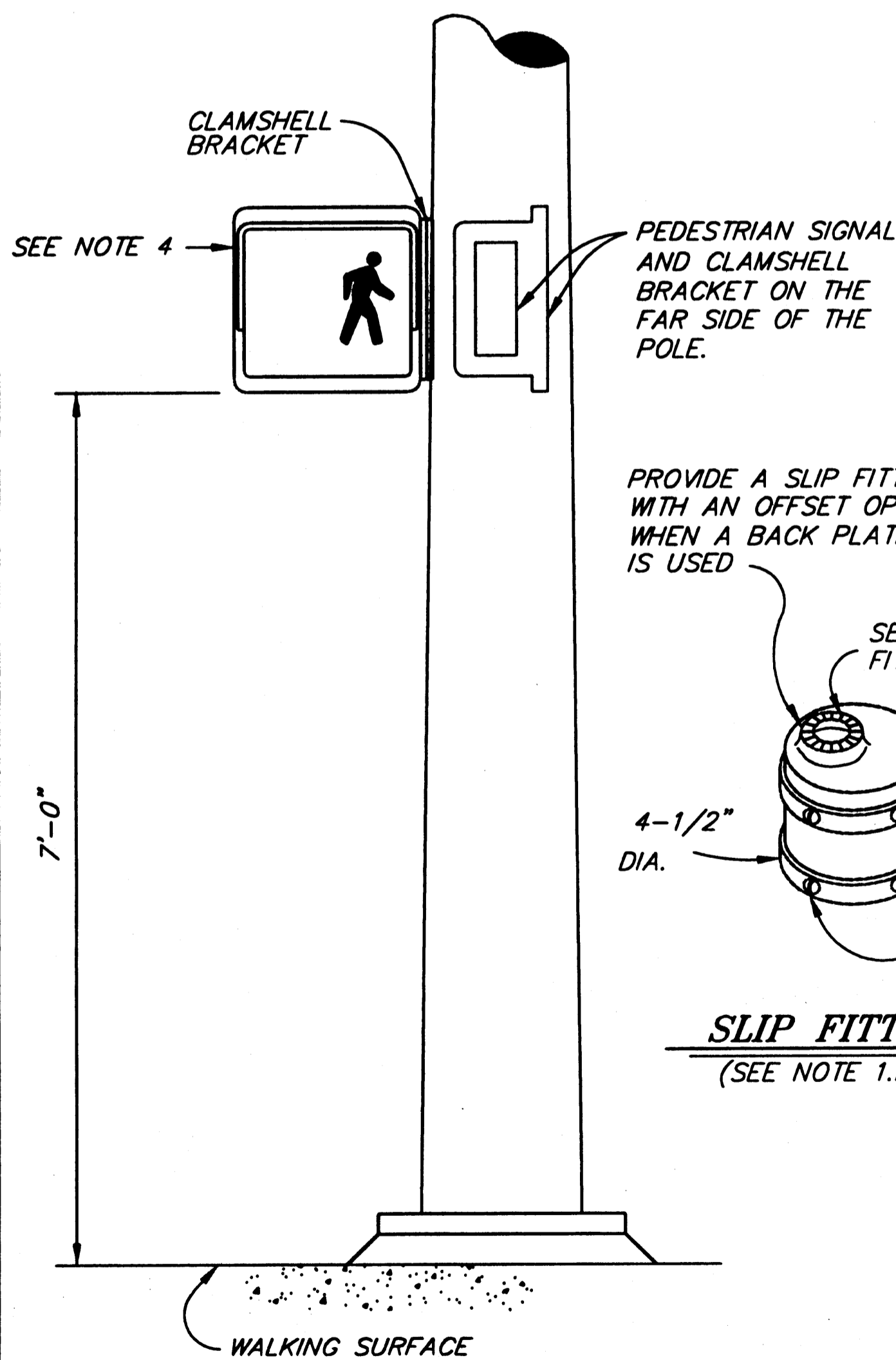


**NEAR LANE LOOP INSTALLATION**

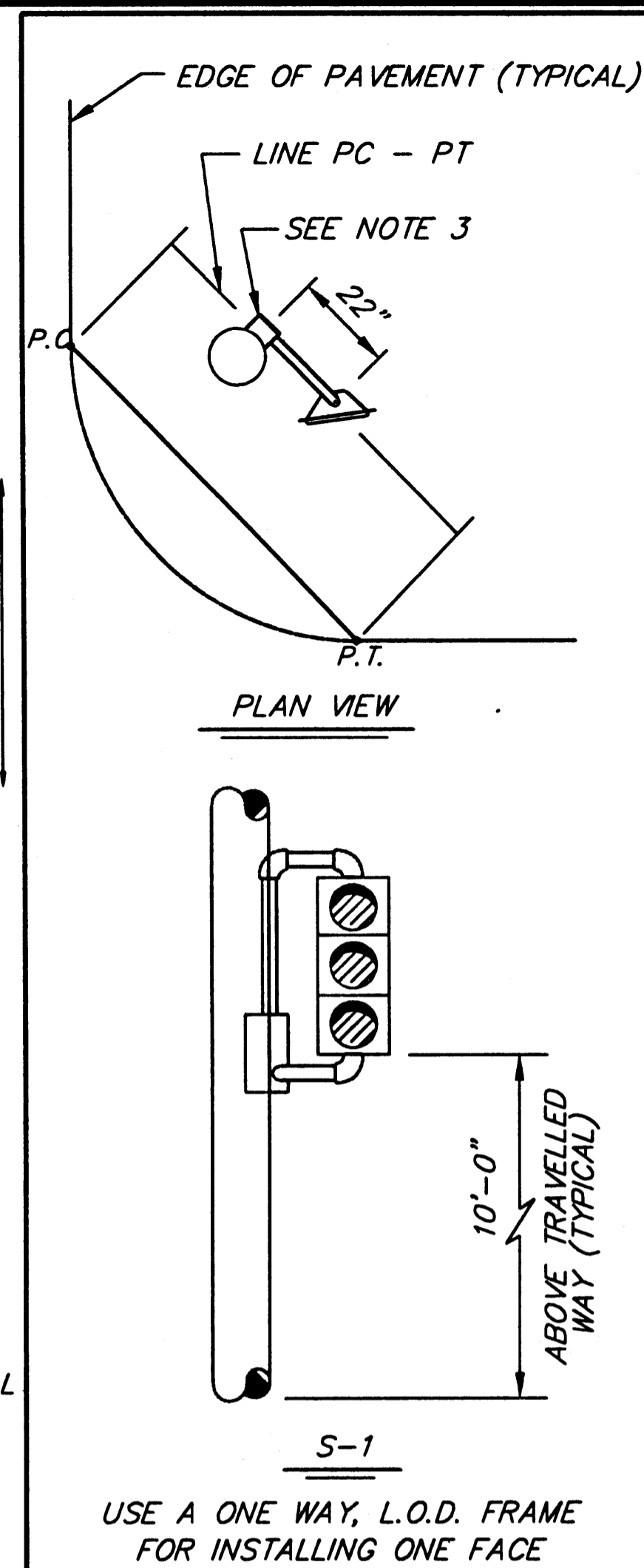
**ADJACENT LANE  
 LOOP INSTALLATION DETAIL**



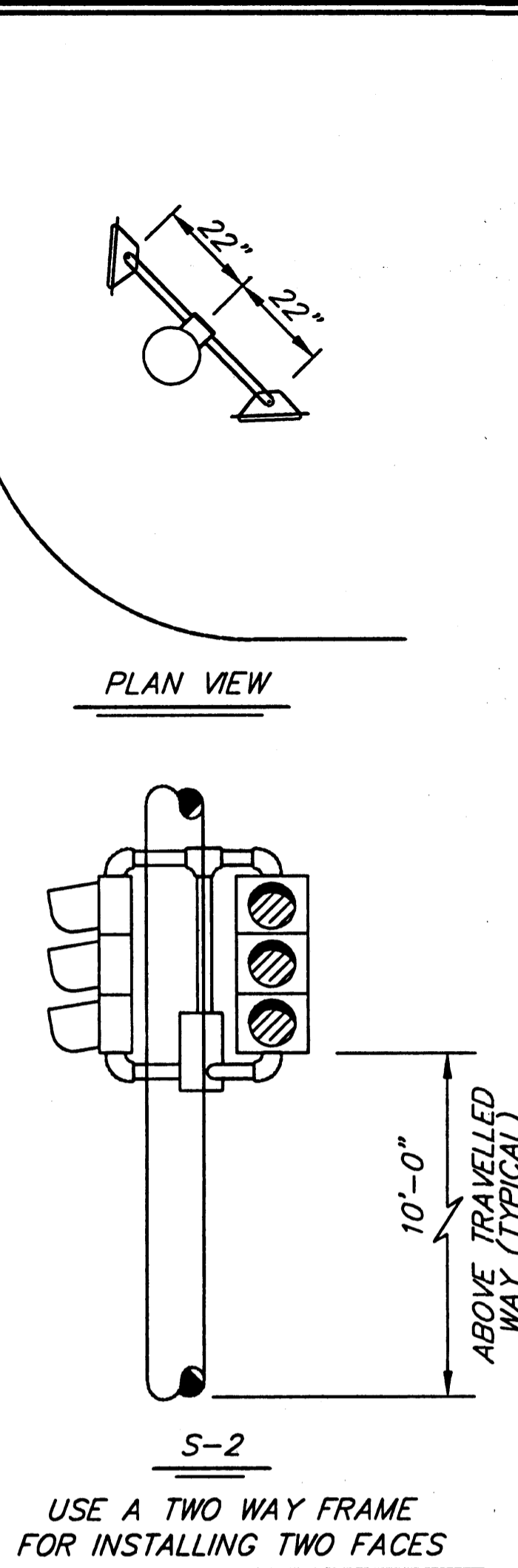
**POST MOUNTED SIGNALS**  
(SHOWN WITHOUT BACKPLATE)



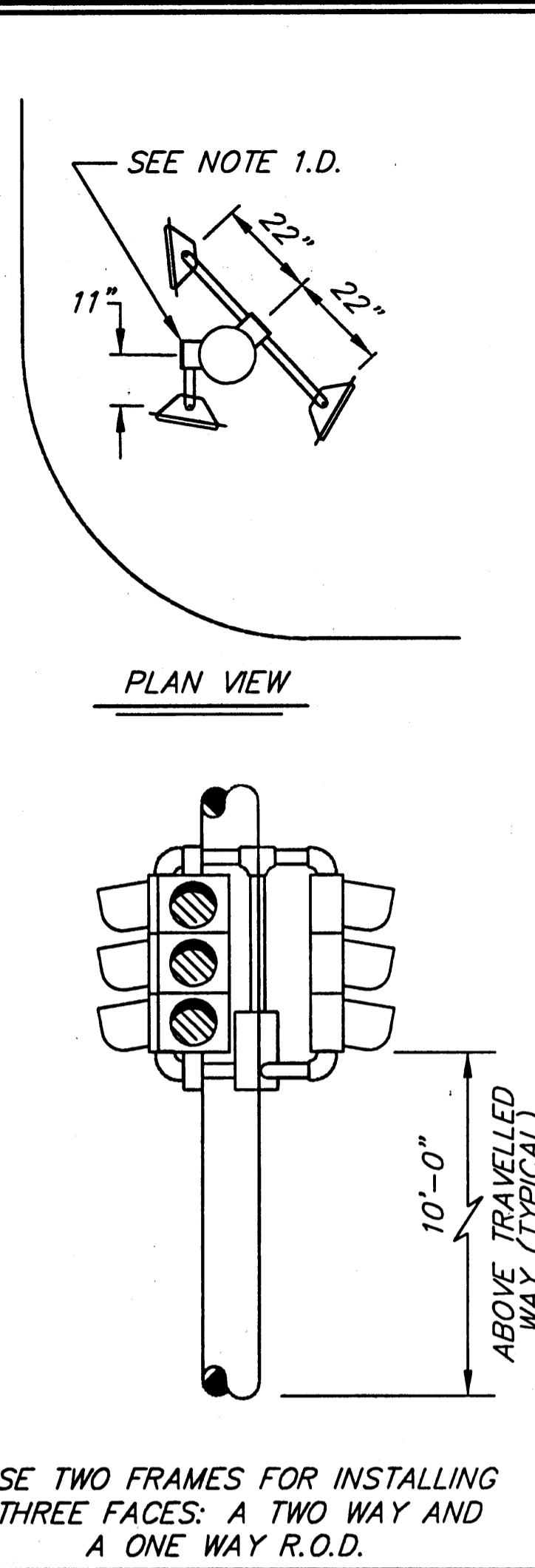
**PEDESTRIAN HARDWARE**



USE A ONE WAY, L.O.D. FRAME FOR INSTALLING ONE FACE



USE A TWO WAY FRAME FOR INSTALLING TWO FACES

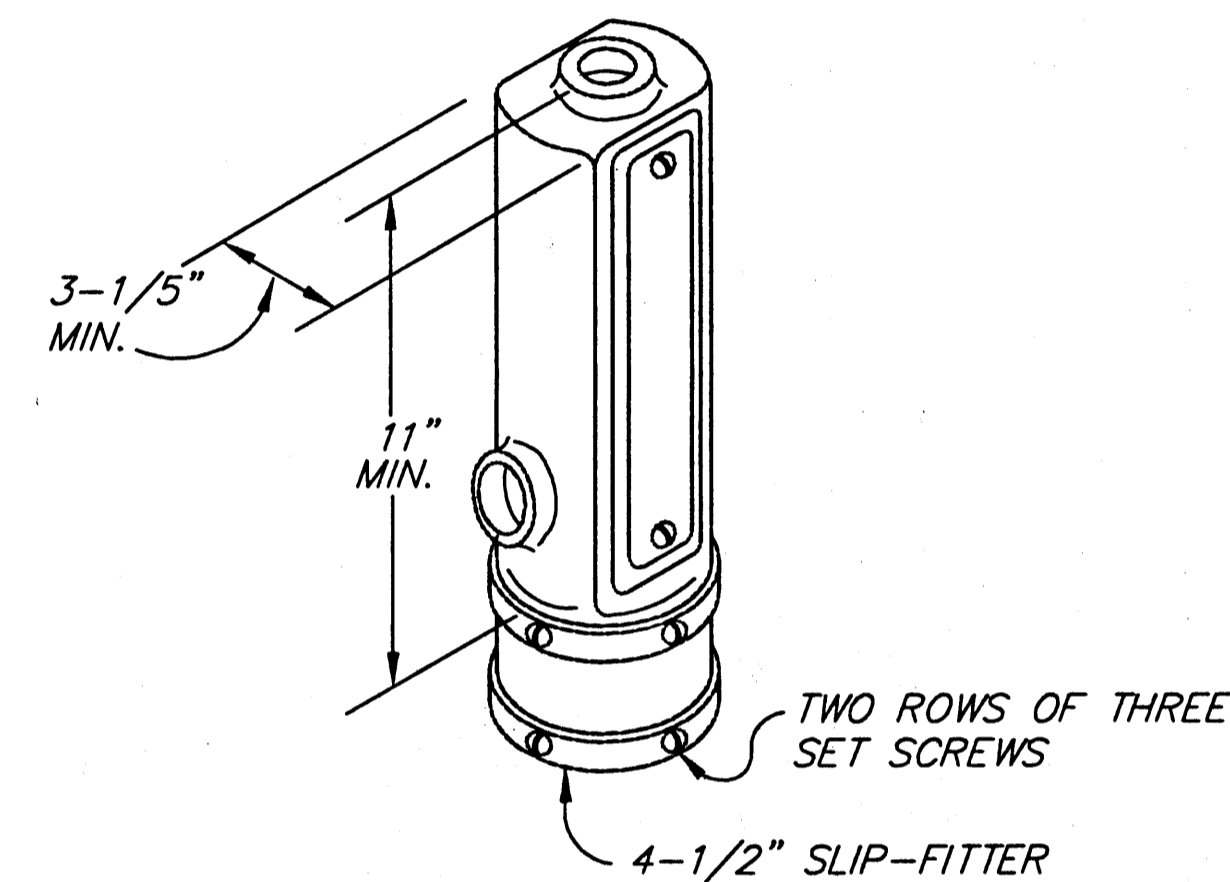


USE TWO FRAMES FOR INSTALLING THREE FACES: A TWO WAY AND A ONE WAY R.O.D.

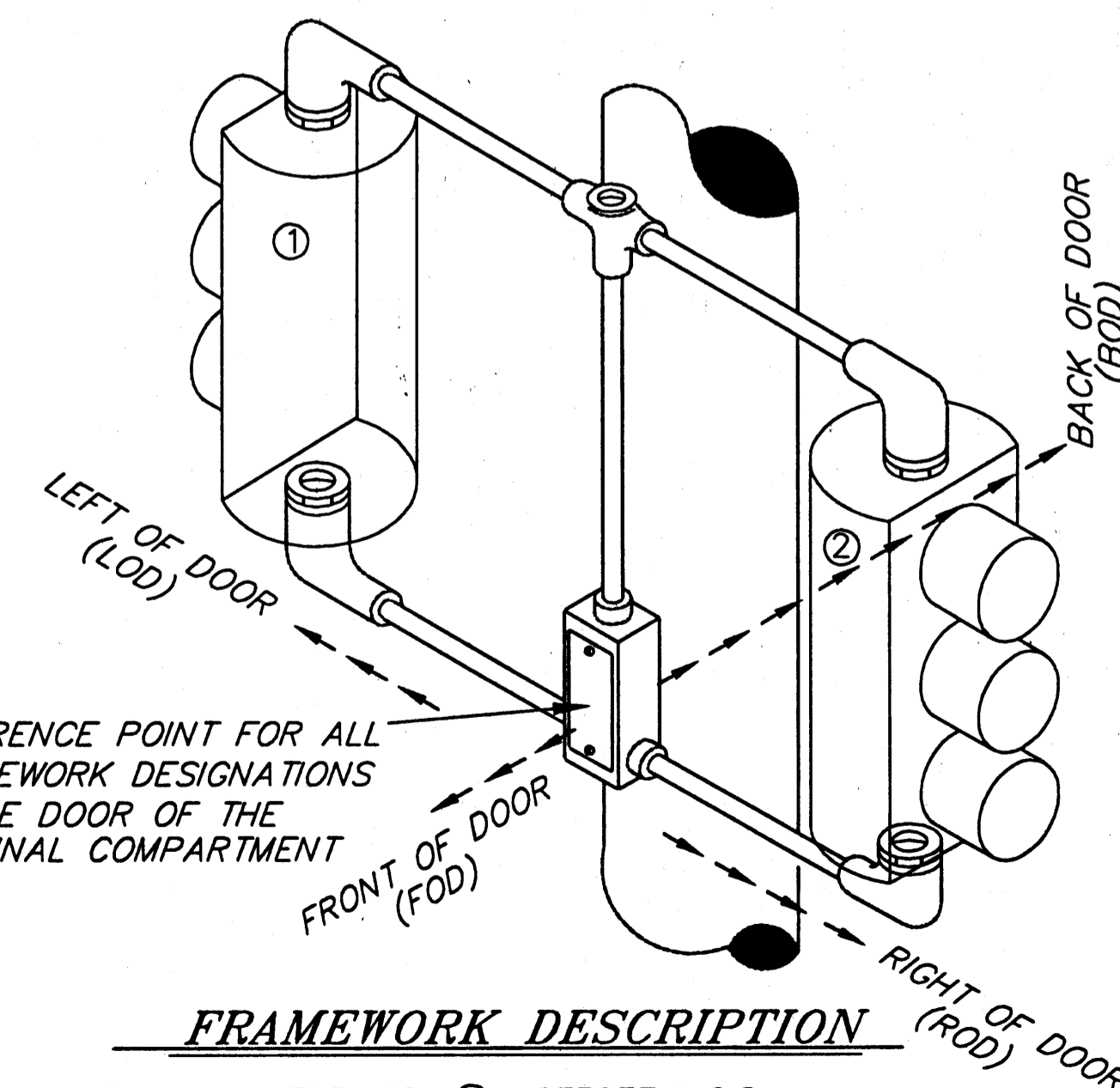
**SIDE MOUNTED SIGNAL FRAMES WITH VEHICULAR SIGNALS**  
(SHOWN WITHOUT BACKPLATES)

**TRAFFIC SIGNAL HARDWARE NOTES:**

- INSTALL THE SIGNAL FACES SHOWN IN THE PLANS AS DETAILED ON THIS SHEET.
  - USE ELEVATOR PLUMBIZERS TO INSTALL FACES ON MAST ARMS AND WHENEVER TWO INCH PIPE TENONS ARE SPECIFIED, INSTALL THE PLUMBIZER BETWEEN THE RED AND YELLOW SIGNAL INDICATIONS.
  - USE SLIP FITTERS TO INSTALL PEDESTRIAN SIGNALS ON THE TOP OF POSTS.
  - USE SIGNAL FRAMES TO INSTALL SIGNAL FACES ON THE SIDES OF POLES AND WHEN SIGNAL FACES ARE POST TOP MOUNTED.
  - USE A SECOND SIGNAL FRAME TO INSTALL THE THIRD FACE WHEN THREE SIDE MOUNTED SIGNAL FACES ARE SHOWN.
  - USE CLAMSHELL BRACKETS TO INSTALL ALL PEDESTRIAN SIGNALS, EXCEPT WHEN ONE IS POST TOP MOUNTED.
- FURNISH ALL SIGNAL FRAMES WITH TERMINAL COMPARTMENTS.
- WHEN INSTALLING TERMINAL COMPARTMENTS, SANDWICH THE POLE BETWEEN THE TERMINAL COMPARTMENT AND THE EDGE OF PAVEMENT. POSITION THE TERMINAL COMPARTMENT WHERE A LINE PARALLEL TO THE LINE BETWEEN THE P.C. AND P.T. OF THE RADIUS RETURN IS TANGENT TO THE POLE.
- INSTALL PEDESTRIAN SIGNALS SO THE POLES TO WHICH THEY ARE ATTACHED ARE BETWEEN THE PEDESTRIAN SIGNAL AND THE THROUGH TRAFFIC LANE THAT PARALLELS THE CROSSWALK.
- FIELD DRILL THE HOLES NEEDED FOR ATTACHING ALL SIGNAL HARDWARE. USE HOLE SAWS WHEN DRILL BITS ARE NOT AVAILABLE. TREAT THE BARE STEEL SURFACES IN ACCORDANCE WITH SECTION 660-3.01.8a, GALVANIZING, OF THE STANDARD SPECIFICATIONS.
- PROVIDE SOLID BACKPLATES SIZED FOR THE NUMBER OF SIGNAL SECTIONS AND MOUNTING TYPE, SO THAT NO LIGHT IS VISIBLE BETWEEN THE BACKPLATE AND THE SIGNAL FACE.
- ATTACH ALL BACKPLATES USING STAINLESS STEEL SCREWS WITH A STAINLESS FLAT WASHER INSTALLED UNDER EACH HEAD. PROVIDE SCREWS THAT ARE SELF TAPPING AND SELF LOCKING TYPE. COAT THE THREADS WITH AN ANTI-SEIZING COMPOUND BEFORE INSTALLING THEM.
- BEFORE INSTALLING THE MACHINE SCREWS THAT SECURE THE VISORS, COAT THE THREADS WITH AN ANTI-SEIZING COMPOUND.



**TERMINAL COMPARTMENT (WITH SLIP FITTER)**  
(SEE NOTES 1.C. AND 2)



**FRAMEWORK DESCRIPTION**

- HEAD NO. ① OFFSET L.O.D.  
HEAD NO. ② OFFSET R.O.D.

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Q:\Jnu\68583\PlanSet\S-signhd.dwg  
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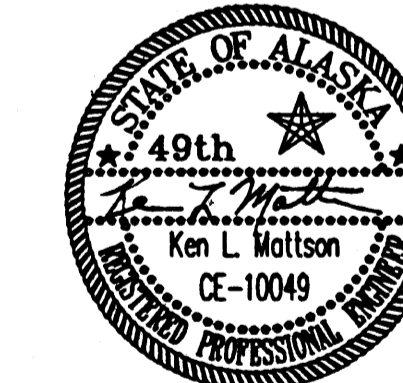
ADDENDUM NUMBER		
ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/ VALLEY  
BLVD/ MENDENHALL BLVD  
SIGNAL  
PROJECT NO. 68583

TRAFFIC SIGNAL HARDWARE  
DETAILS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
PE: *[Signature]* Date: 7/19/04

DESIGNED BY: K. MATTSO



CHECKED BY: R. PURVES  
DRAWN BY: D. STEVENS

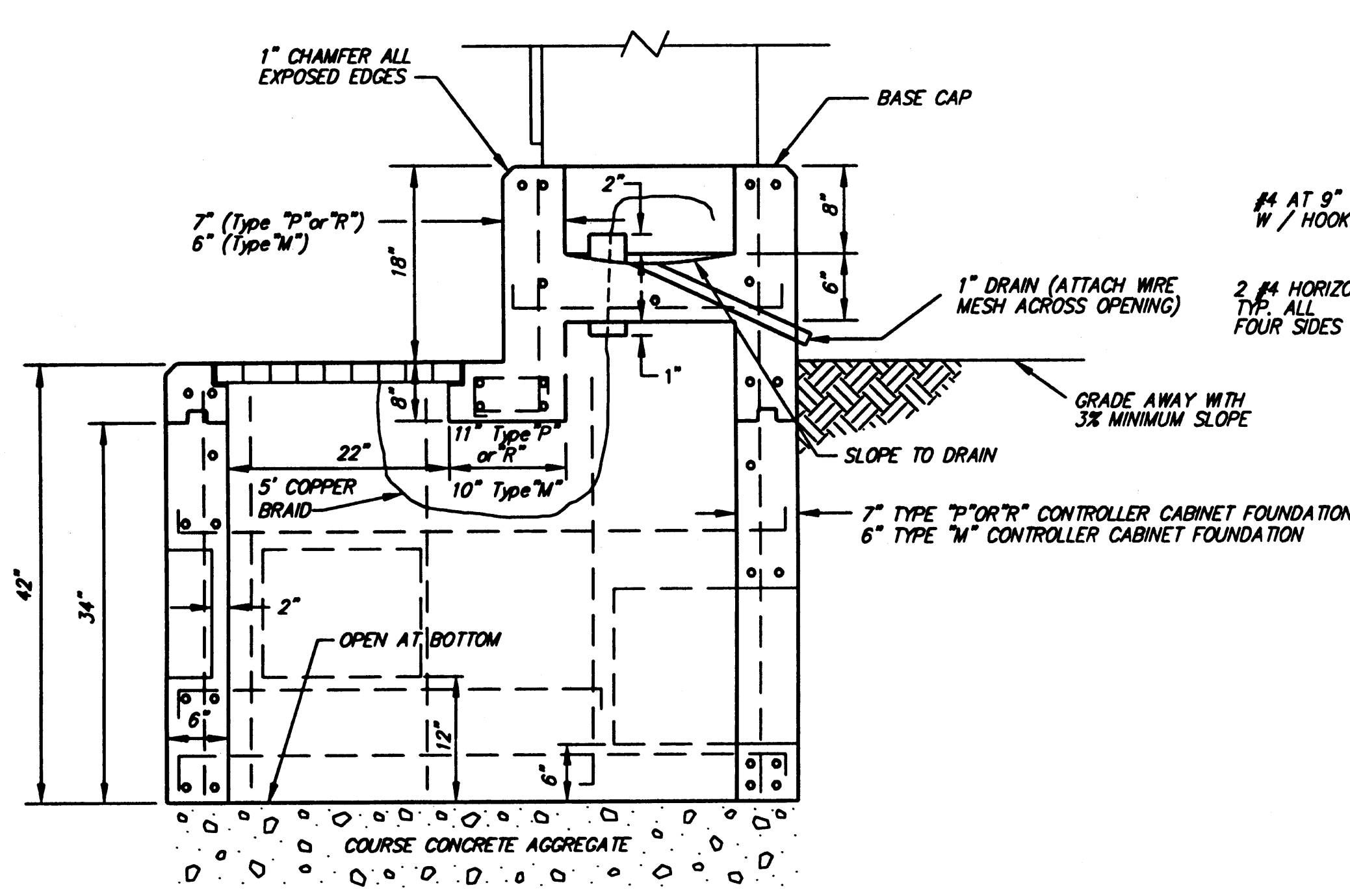
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING  
SERVICES DIVISION

JNU-LOOP RD/ VALLEY  
BLVD/ MENDENHALL BLVD  
SIGNAL  
PROJECT NO. 68583  
TRAFFIC SIGNAL HARDWARE  
DETAILS

PROJECT DESIGNATION NUMBER

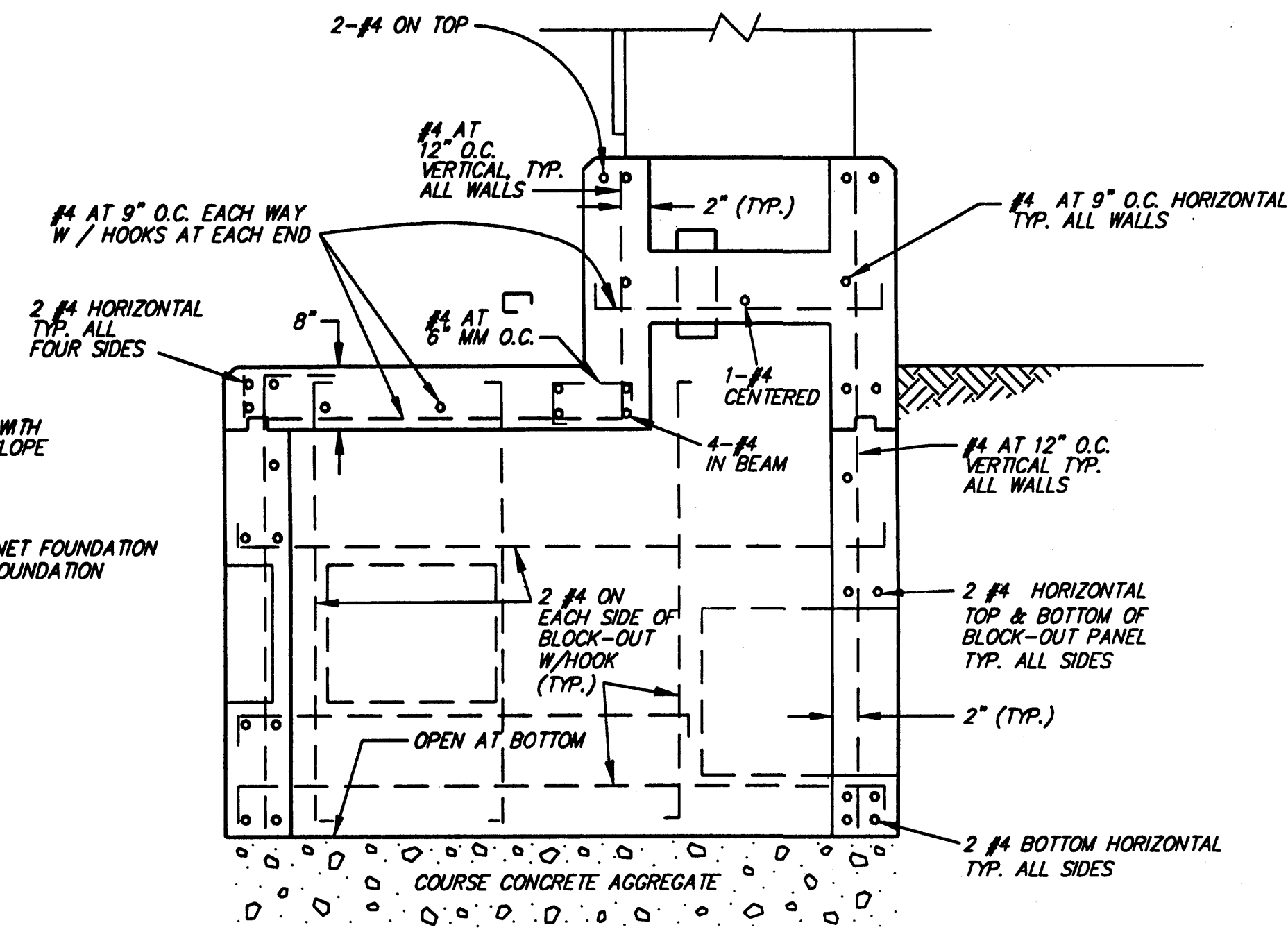
HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
S8	46



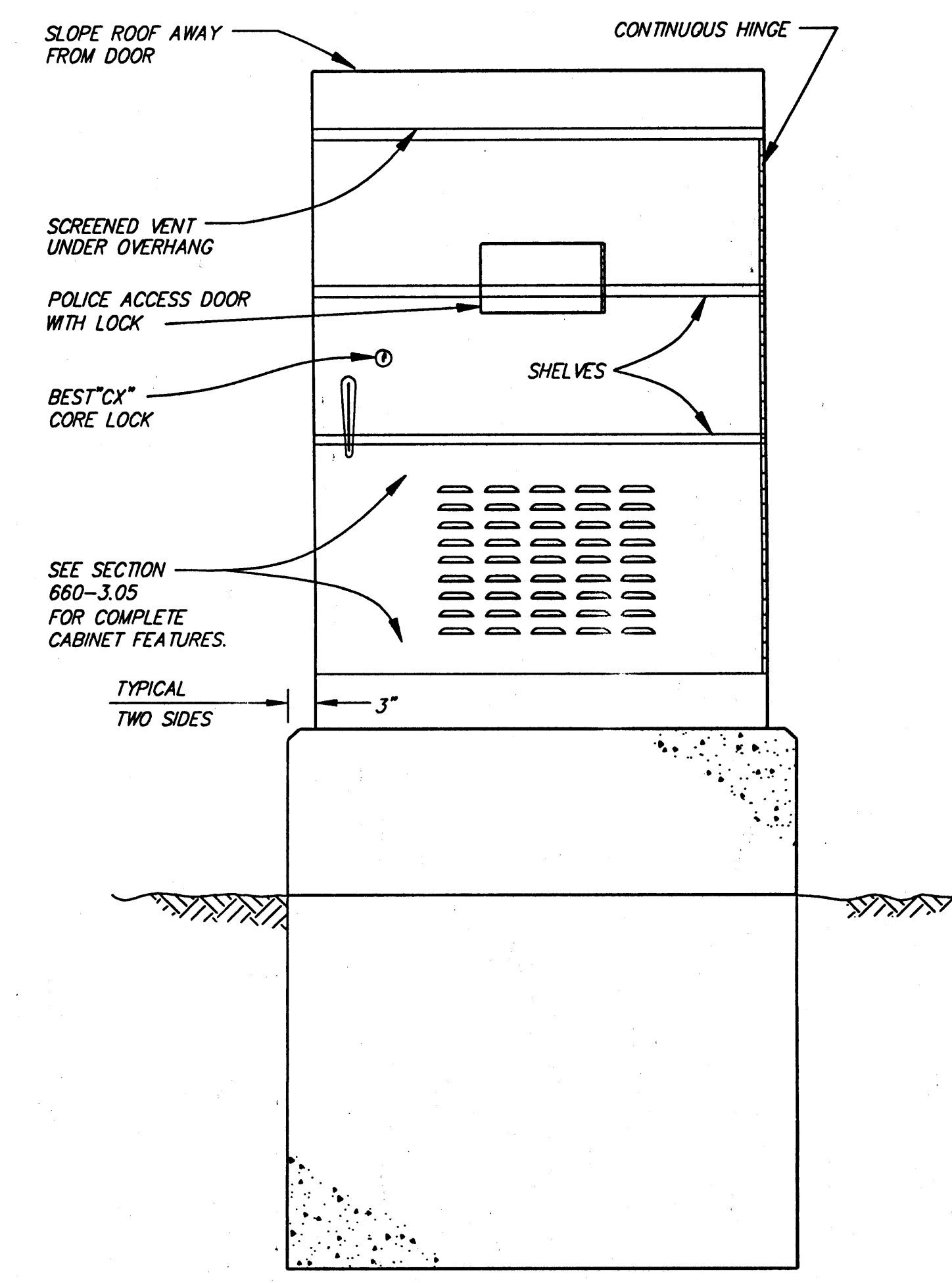
**SECTION A-A**

NOTE: SEE SECTION "B-B" FOR REBAR DETAILS.



**SECTION B-B**

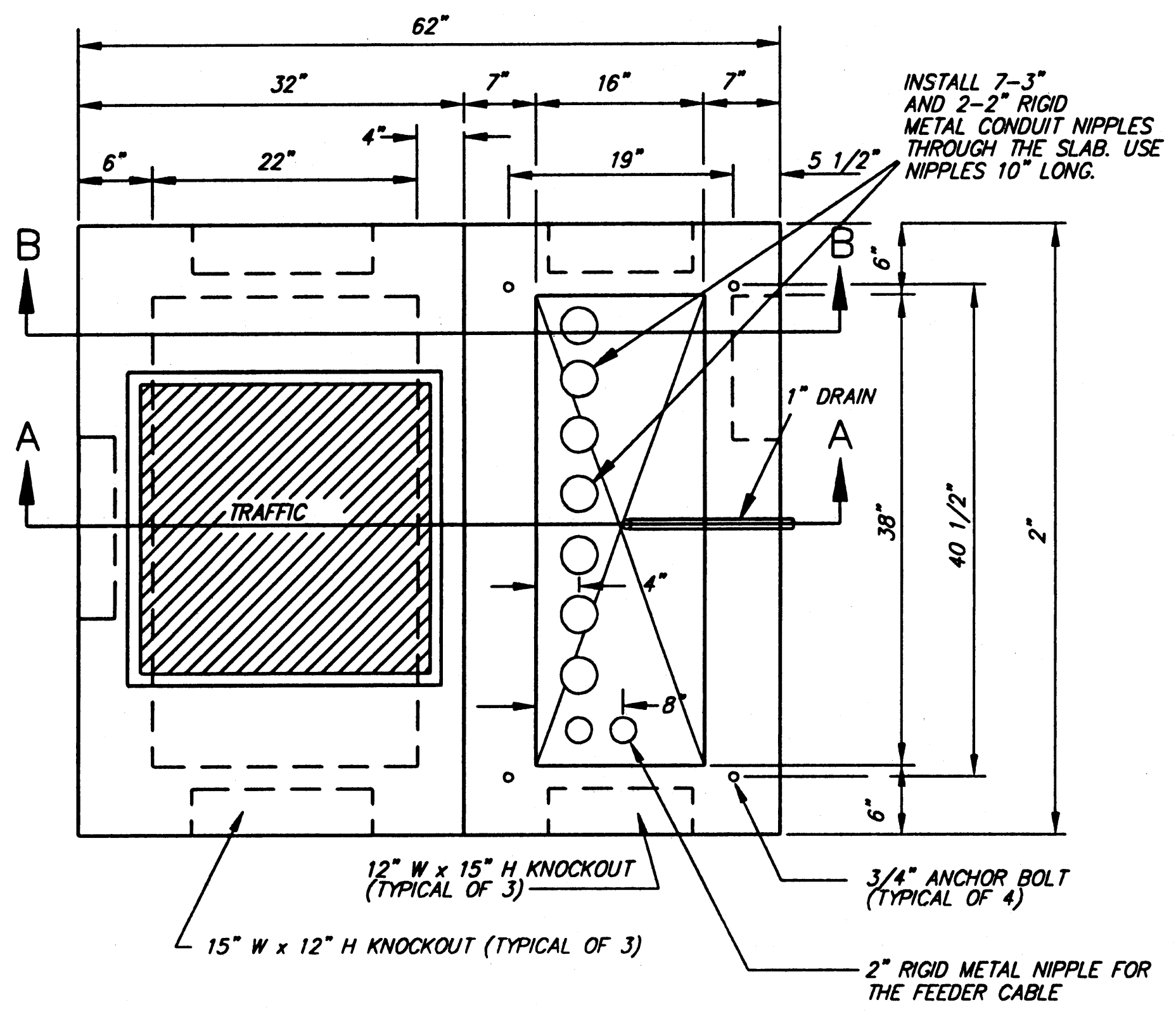
NOTE: SEE SECTION "A-A" FOR DIMENSIONAL DETAILS & NOTES.



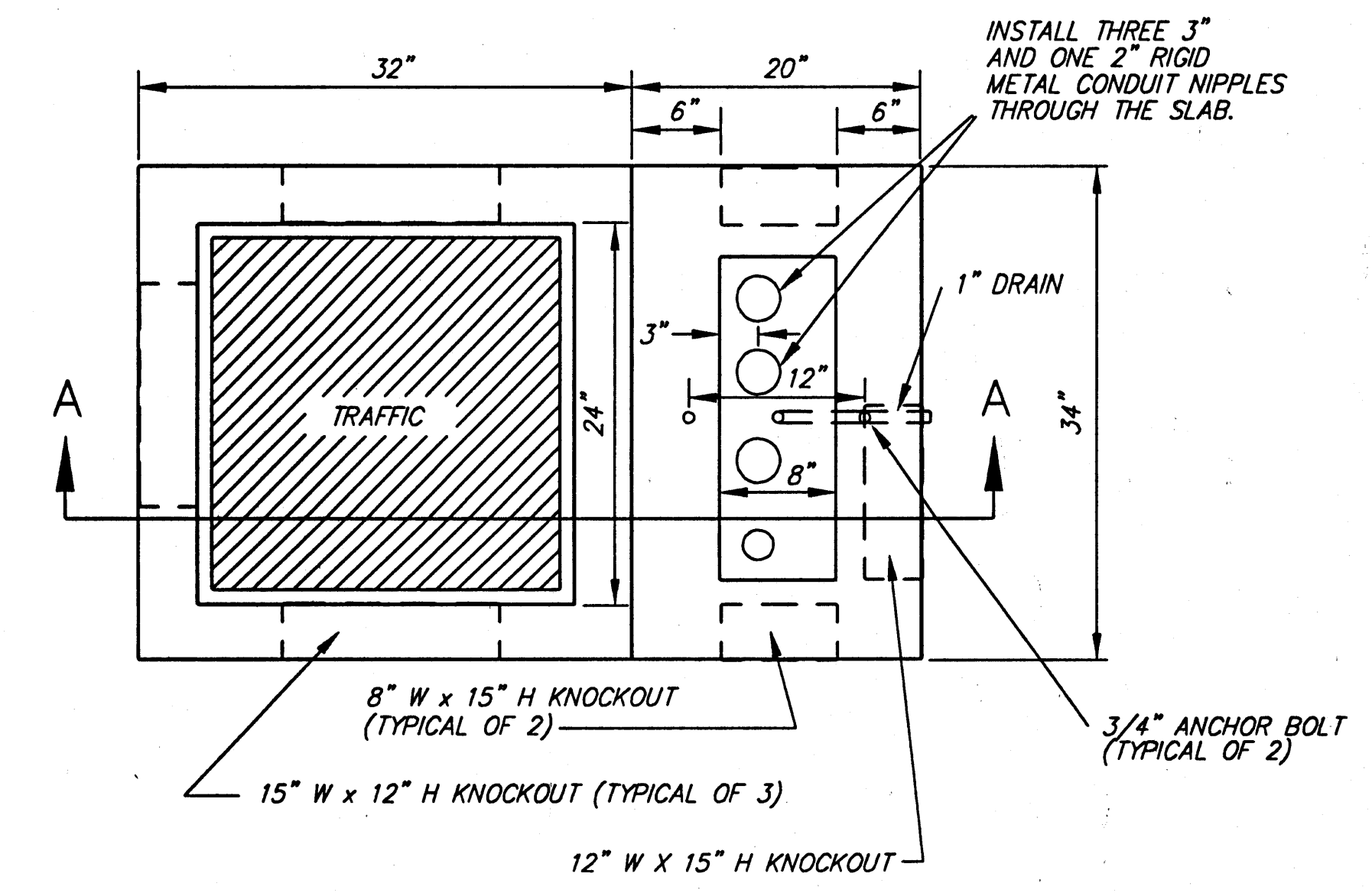
**CABINET ELEVATION**

**GENERAL NOTES:**

1. ANCHOR BOLTS SHALL NOT PROTRUDE MORE THAN 1 1/2" ABOVE THE TOP OF THE FOUNDATION. ANCHOR BOLT DIMENSIONS SHALL BE AS SPECIFIED BY THE CABINET MANUFACTURER.
2. UNUSED CONDUIT STUBS SHALL BE SEALED WITH WATERTIGHT CAPS. STUBS CARRYING CONDUCTORS SHALL BE SEALED WITH WATERTIGHT SEALING BUSHINGS DESIGNED TO SEAL AROUND CONDUCTORS AND AGAINST THE CONDUIT WALLS.
3. ROUTE THE 5' COPPER GROUNDING JUMPER THROUGH THE 2" PIPE NIPPLE, AND ATTACH IT TO THE GROUNDING BUSHING ON THE FEEDER CABLE CONDUIT.
4. STOP HORIZONTAL & VERTICAL STEEL AT THE BLOCK-OUT PANELS & THE JOINT USING 90 DEGREE HOOKS. USE 2 EXTRA #4 HORIZONTAL & VERTICAL BARS, ALL SIDES AS SHOWN.
5. PRECAST FOUNDATIONS ARE ACCEPTABLE.



**TYPE "P" or "R" CONTROLLER CABINET FOUNDATION**



**TYPE "M" CONTROLLER CABINET FOUNDATION**

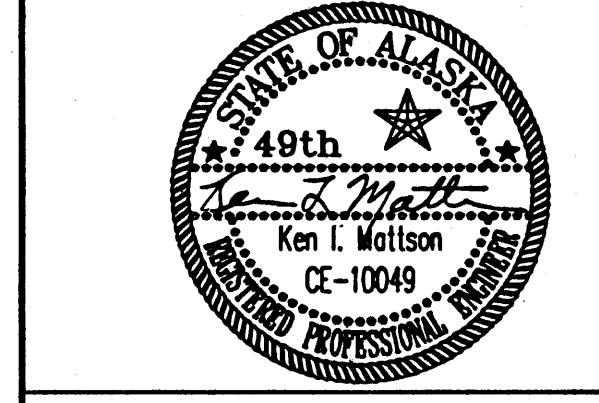
ADDENDUM NUMBER  
 ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/ VALLEY  
 BLVD/MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583  
 CONTROLLER CABINET  
 FOUNDATIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *[Signature]* Date: 7/17/04

DESIGNED BY: K. MATTSO

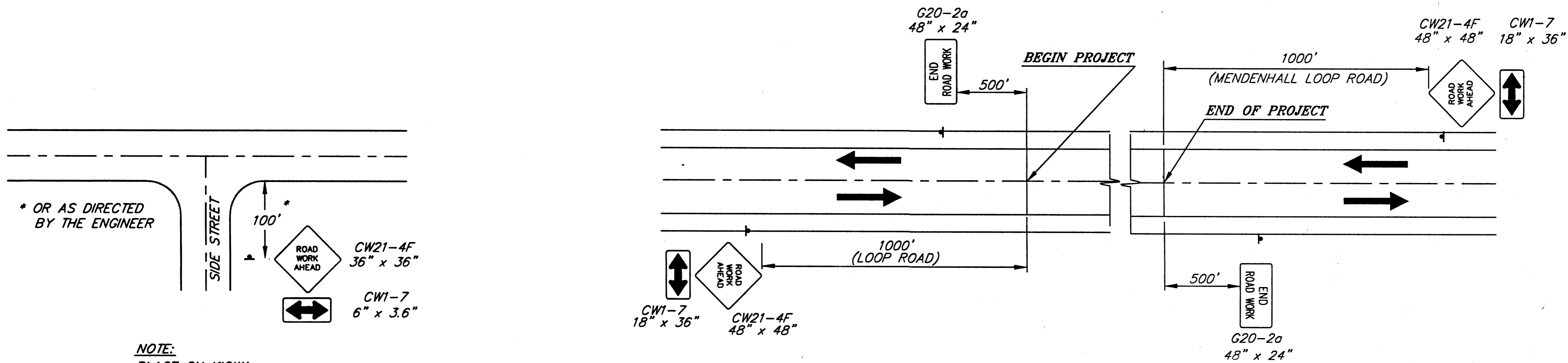


CHECKED BY: R. PURVES  
 DRAWN BY: D. STEVENS

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 & PUBLIC FACILITIES  
 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION  
 JNU-LOOP RD/ VALLEY  
 BLVD/MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO 68583  
 CONTROLLER CABINET  
 FOUNDATIONS

PROJECT DESIGNATION NUMBER  
 HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
S9	46



\* OR AS DIRECTED BY THE ENGINEER

**NOTE:**  
PLACE ON KIOWA,  
VALLEY & MENDENHALL BLVD.

**PERMANENT CONSTRUCTION SIGNING**

**TRAFFIC CONTROL NOTES**

1. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATIONS NOT COVERED BY THIS TCP SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
2. TWO WAY TRAFFIC WILL BE MAINTAINED AT ALL TIMES.
3. TRAFFIC LANES SHALL BE A MINIMUM OF 10 feet WIDE.
4. TEMPORARY PAVEMENT MARKINGS WILL BE REQUIRED AS DESCRIBED IN SECTION 643-3.09 OF THE SPECIFICATIONS.
5. ACCESS TO BUSINESSES AND HOMES WILL BE MAINTAINED AT ALL TIMES.
6. THE CONTRACTOR SHALL KEEP THE PUBLIC INFORMED OF HIS CONSTRUCTION ACTIVITIES THROUGH THE USE OF THE LOCAL NEWS MEDIA. NEWS RELEASES SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO THEIR RELEASE. NEWS RELEASES WILL BE REQUIRED BUT NOT LIMITED TO, THE ONSET OF WORK, GRINDING, PAVING, AND CHANGES IN THE LANE CONFIGURATIONS.
7. IF TRAFFIC DELAYS BECOME LONGER THAN 3 MINUTES AVERAGE PER VEHICLE, THE PROJECT ENGINEER MAY REQUIRE NIGHTTIME OPERATIONS.
8. NO WORK ON MENDENHALL LOOP ROAD, MENDENHALL BLVD. OR VALLEY BLVD. SHALL OCCUR BETWEEN 6:30 A.M. TO 8:00 A.M AND BETWEEN 4:00 P.M. TO 6:00 P.M.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

PATH:  
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Tue, 29/Jul/03 01:17PM rksnyder  
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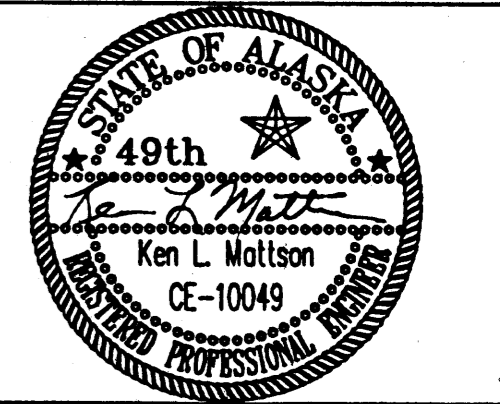
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ATTACHMENT NUMBER		
RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

JNU-LOOP RD/ VALLEY  
BLVD/ MENDENHALL BLVD  
SIGNAL  
PROJECT NO. 68583

TRAFFIC CONTROL PLAN

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge.  
PE: *[Signature]* Date 9/17/04

DESIGNED BY: K. MATTSO



CHECKED BY: R. PURVES  
DRAWN BY: B. BENNETT

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
STATEWIDE DESIGN & ENGINEERING  
SERVICES DIVISION

JNU-LOOP RD/ VALLEY  
BLVD/ MENDENHALL BLVD  
SIGNAL  
PROJECT NO. 68583

TRAFFIC CONTROL PLAN

PROJECT DESIGNATION NUMBER  
**HRO-0966(24) / 68583**

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
T1	46

ADDENDUM NUMBER

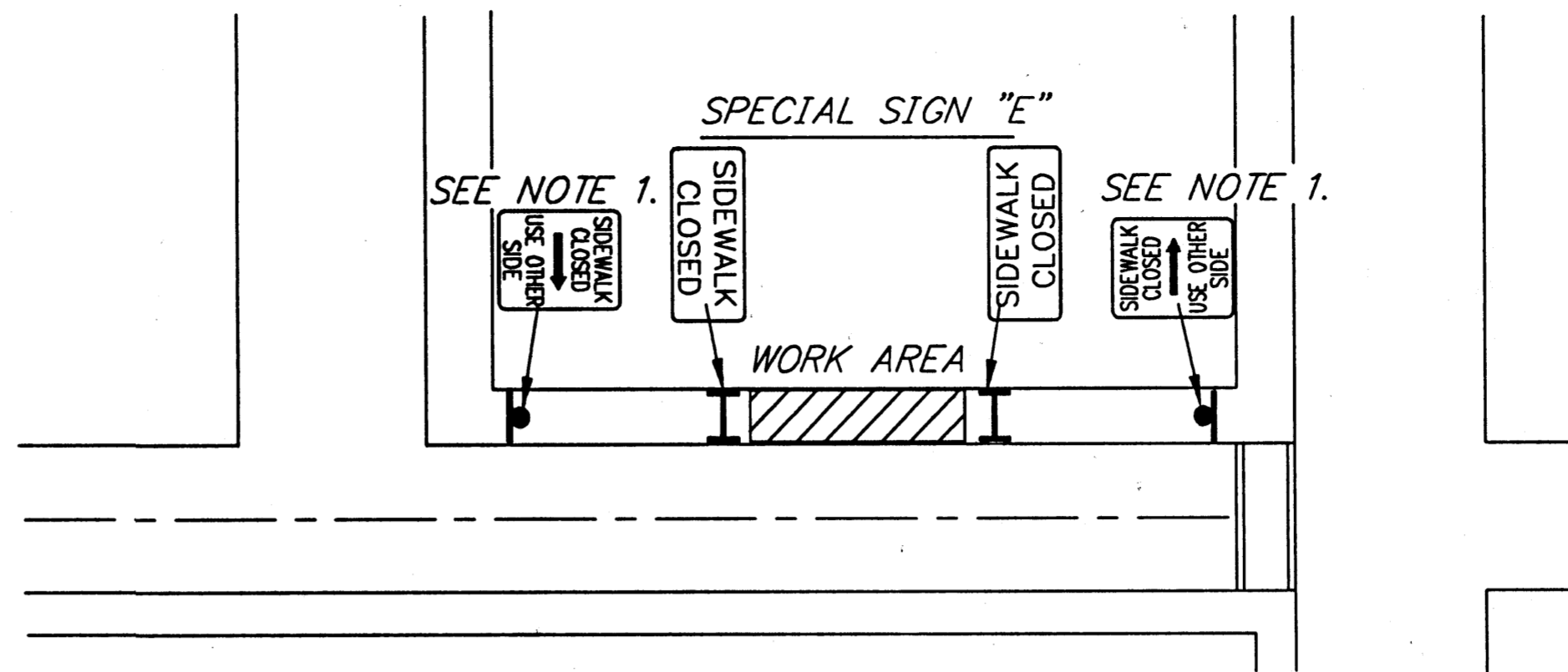
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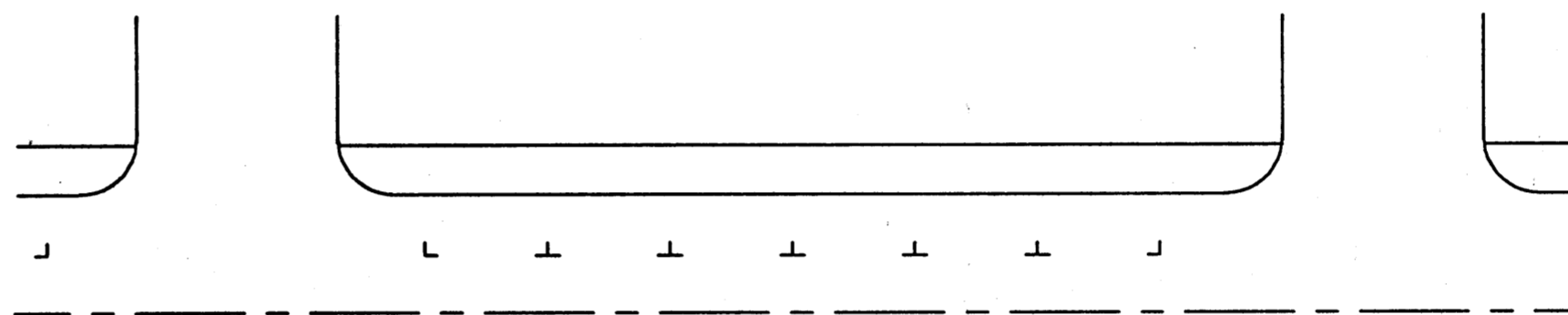
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**SIGN NOTES:**

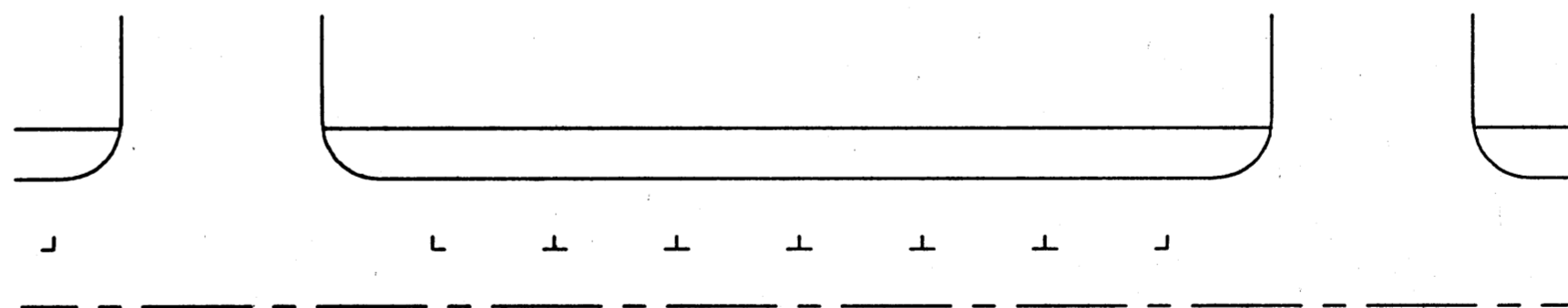
1. WHERE IT IS IMPRACTICAL TO WALK AROUND THE CLOSED PORTION OF THE SIDEWALK, SIGN R9-11 (SIDEWALK CLOSED AHEAD CROSS HERE [WITH ARROW]) SHALL BE SET UP AT THE NEAREST EXISTING CROSSWALK.



**EXISTING SIDEWALK RECONSTRUCTION**



**SIDEWALK CLOSURE BYPASS WALKWAY (NO WORK IN PROGRESS)**



**SIDEWALK CLOSURE NO ROADWAY ENCROACHMENT**

**LEGEND**

	..... SIGN
	..... CONE
	..... DRUM
	..... FLAGGING STATION

JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

TRAFFIC CONTROL PLAN

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.  
 PE: *[Signature]* Date 9/17/04

DESIGNED BY: K. MATTSON



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STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
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JNU-LOOP RD/ VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

TRAFFIC CONTROL PLAN

PROJECT DESIGNATION NUMBER

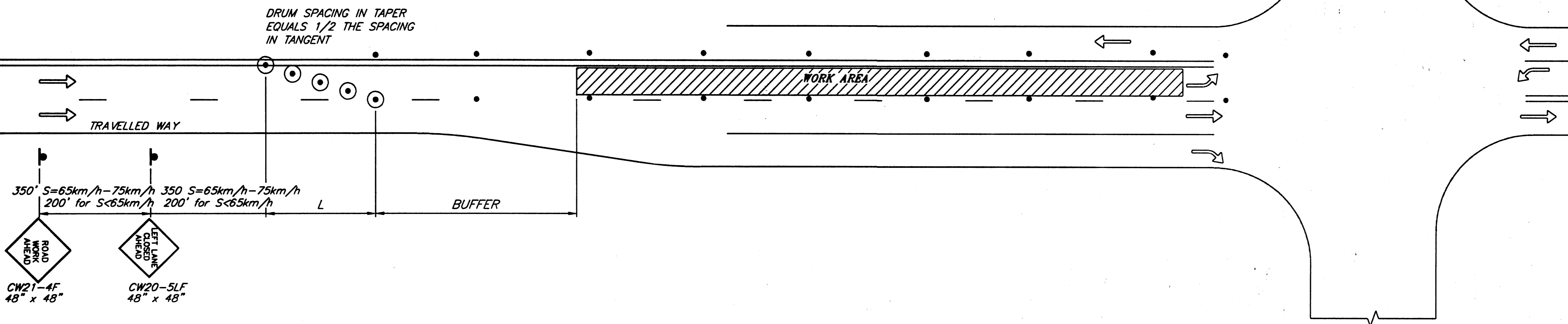
HRO-0966(24) / 68583

STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
T2	46

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

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No.	DATE	DESCRIPTION

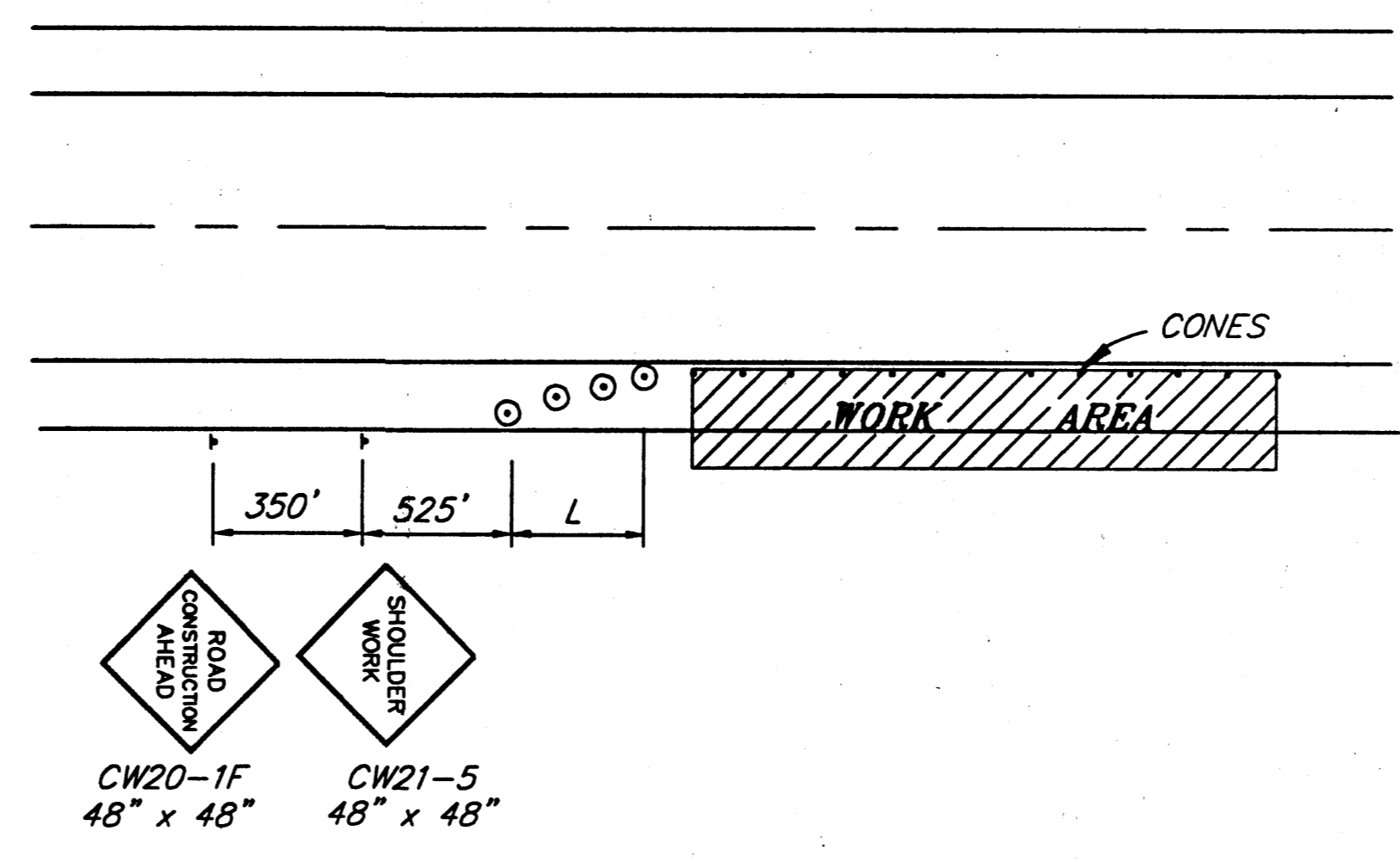


**TYPICAL LANE CLOSURE  
 ON UNDIVIDED HIGHWAY**

$L = W \times T$

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

TCP TABLE SETUP				
SPEED (KILOMETERS PER HOUR)	SPEED (MILES PER HOUR)	BUFFER/ LENGTH (ft)	CONE/DRUM SPACING (ft)	TAPER FACTOR (T)
25	16	30'	15'	4:1
30	19	35'	20'	6:1
35	22	45'	23'	8:1
40	25	55'	25'	10:1
45	28	70'	30'	13:1
50	31	85'	33'	16:1
55	34	115'	35'	19:1
60	37	140'	40'	23:1
65	40	170'	43'	27:1
70	43	200'	45'	32:1
75	47	245'	50'	47:1
80	50	280'	53'	50:1
85	53	320'	55'	53:1
90	56	360'	60'	56:1



**SHOULDER WORK**  
 (NO ENCROACHMENT INTO TRAVELLED WAY)

LEGEND	
	SIGN
	CONE
	DRUM
	FLAGGING STATION

JNU-LOOP RD/VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

TRAFFIC CONTROL PLAN

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the quality of work constructed.  
 PE: *[Signature]* Date: 7/17/04

DESIGNED BY: K. MATTSON

CHECKED BY: R. PURVES  
 DRAWN BY: B. BENNETT

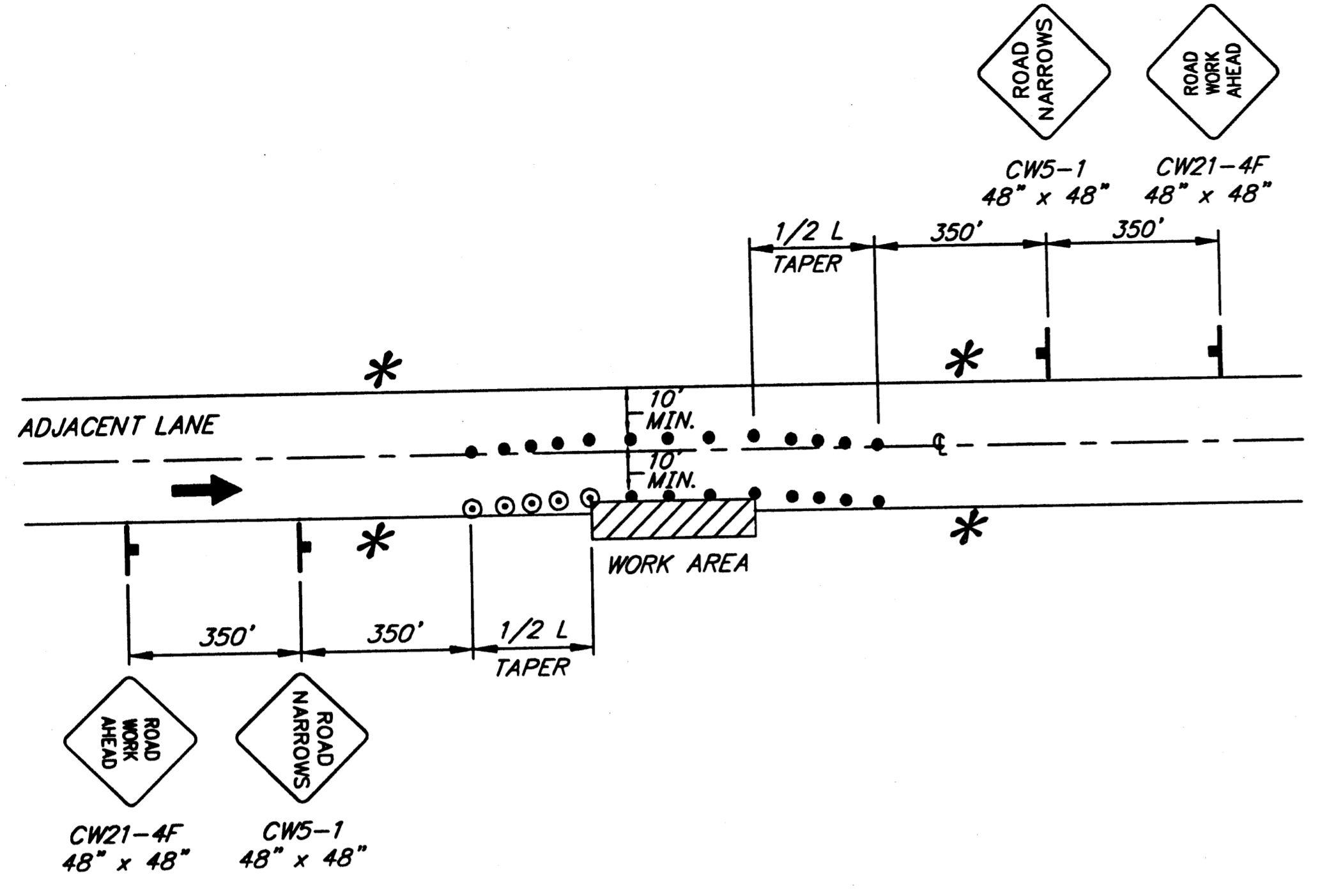
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
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 STATEWIDE DESIGN & ENGINEERING  
 SERVICES DIVISION

JNU-LOOP RD/VALLEY  
 BLVD/ MENDENHALL BLVD  
 SIGNAL  
 PROJECT NO. 68583

TRAFFIC CONTROL PLAN	
PROJECT DESIGNATION NUMBER	
HRO-0966(24) / 68583	
STATE	YEAR
ALASKA	2003
SHEET NUMBER	TOTAL SHEETS
T3	46

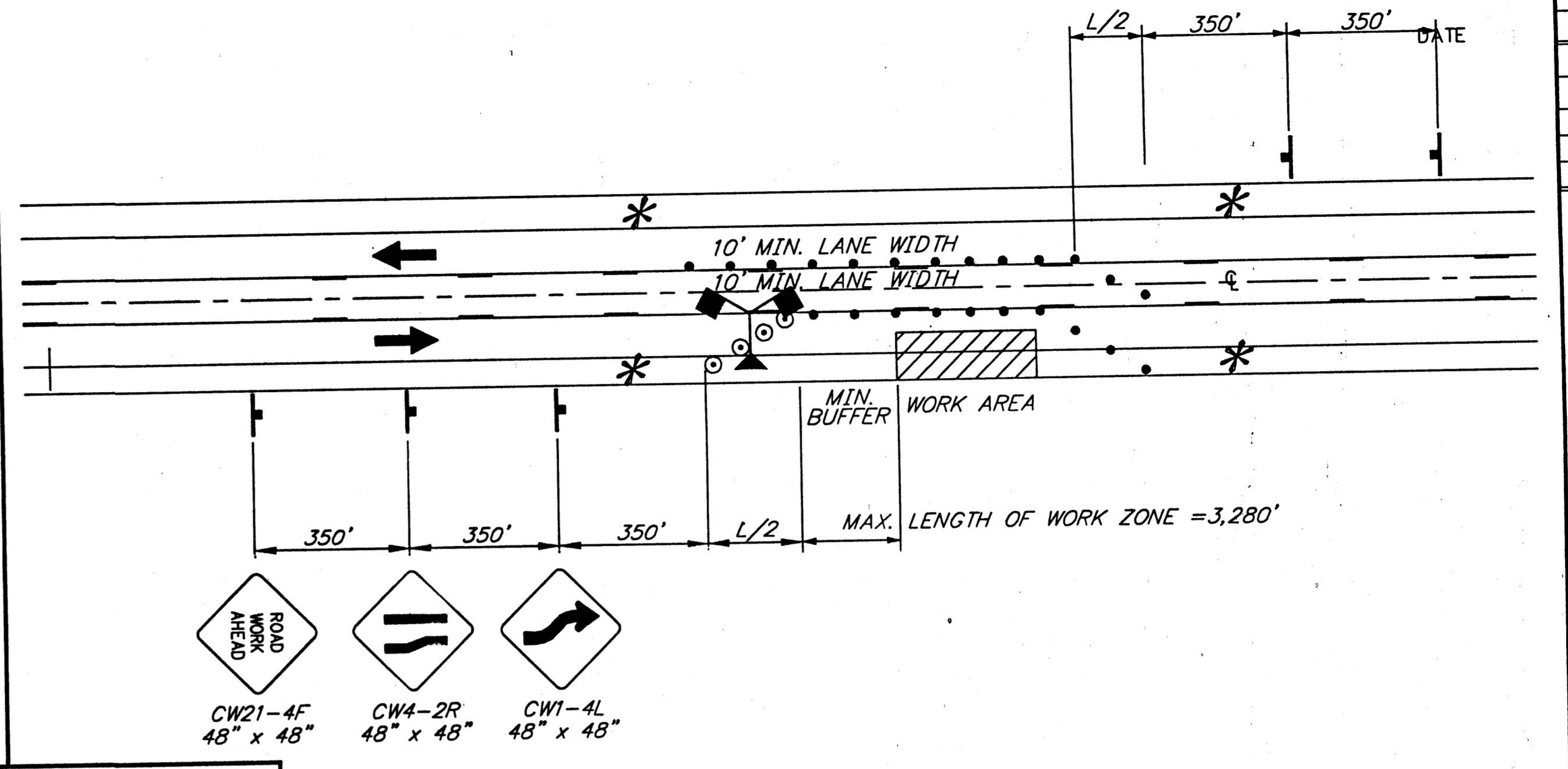
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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No.	DESCRIPTION

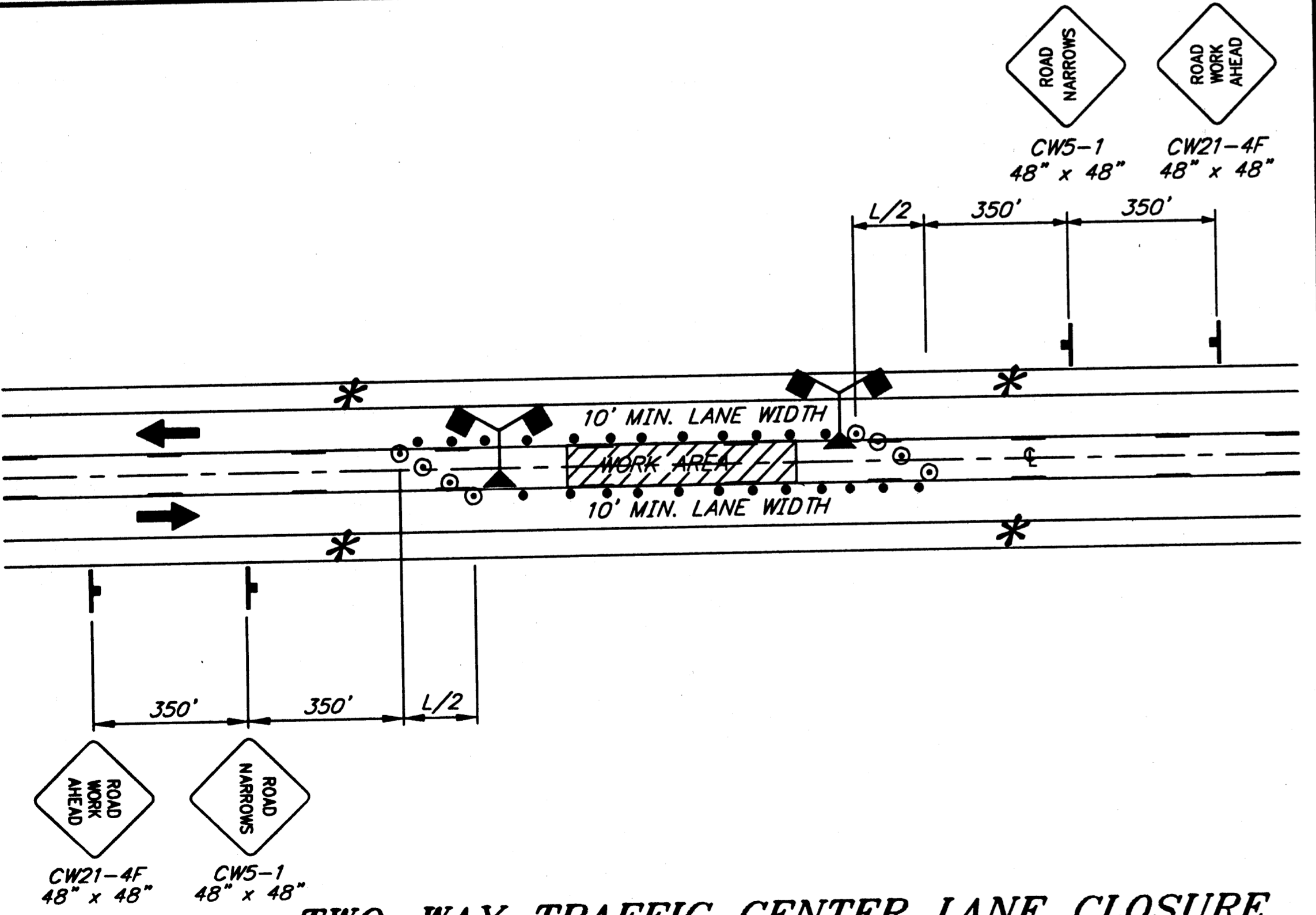


**ROADWAY ENCROACHMENT**

NOTE: IF ONLY ONE LANE IS EFFECTED BY ROAD WORK (THAT IS, THE CONES ALONG THE WORK AREA ARE NO CLOSER THAN 10' TO CENTERLINE) THE SIGNS AND CENTERLINE CONES FOR THE OPPOSING LANE MAY BE DELETED.



**TWO-WAY TRAFFIC USING CENTER LANE**



**TWO-WAY TRAFFIC CENTER LANE CLOSURE**

**LEGEND**

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

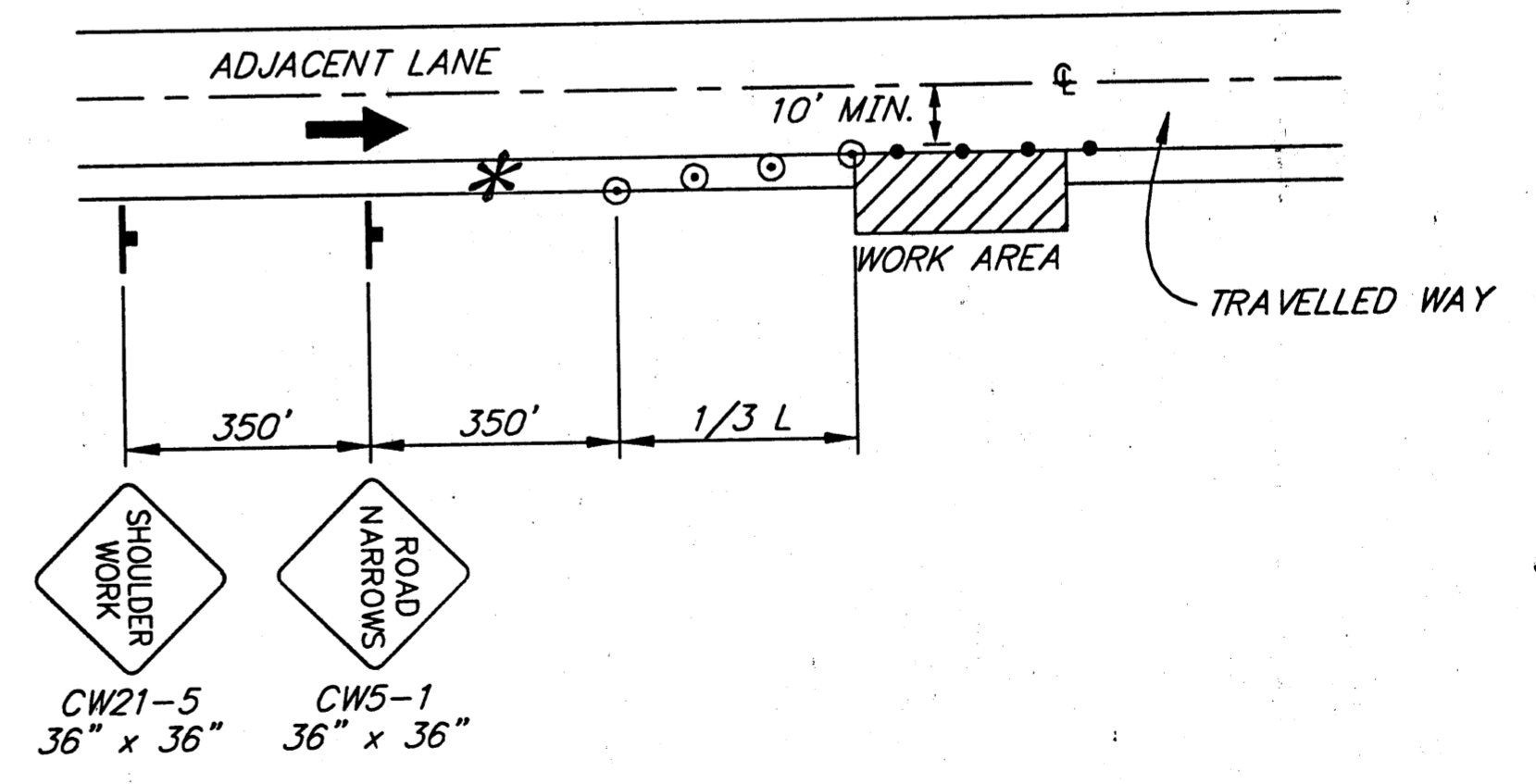
\* NO PARKING WITHIN 60m OF CONES

$L = W \times T$

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

**TCP TABLE SETUP**

SPEED (KILOMETERS PER HOUR)	SPEED (MILES PER HOUR)	BUFFER/LENGTH (ft)	CONE/DRUM SPACING (ft)	TAPER FACTOR (T)
25	16	30'	15'	4:1
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70	43	200'	45'	32:1
75	47	245'	50'	47:1
80	50	280'	53'	50:1
85	53	320'	55'	53:1
90	56	360'	60'	56:1



**SHOULDER WORK**

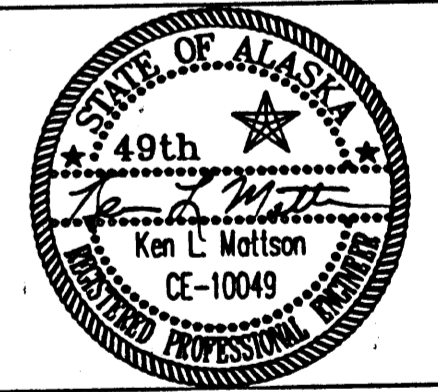
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

JNU-LOOP RD/VALLEY BLVD/ MENDENHALL BLVD SIGNAL PROJECT NO. 68583

TRAFFIC CONTROL PLAN

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 PE: [Signature] Date: 9/1/04

DESIGNED BY: K. MATTSO



CHECKED BY: R. PURVES  
 DRAWN BY: B. BENNETT

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

JNU-LOOP RD/VALLEY BLVD/ MENDENHALL BLVD SIGNAL PROJECT NO. 68583

TRAFFIC CONTROL PLAN

PROJECT DESIGNATION NUMBER HRO-0966(24) / 68583

STATE ALASKA YEAR 2003

SHEET NUMBER T4 TOTAL SHEETS 46