FINAL PLAN SET #1

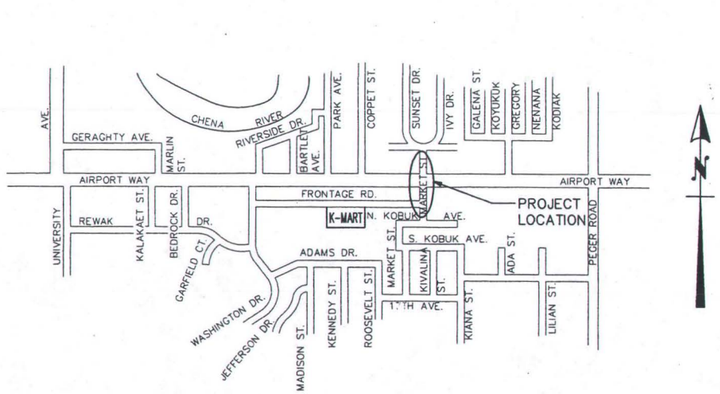
STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA		1993	1	14

K-mart

STORE NO. 7598
FAIRBANKS - ALASKA

PLANS FOR

TRAFFIC SIGNAL AND HIGHWAY MODIFICATIONS TO MARKET STREET AND AIRPORT WAY



NOTES:

1. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 1988 ED. ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES AND LATEST STANDARD MODIFICATIONS, STANDARD DRAWINGS, ALASKA D.O.T. AND P.F., AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

2. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

CONSTRUCTION NOTES:

1. NO THROUGH OR LEFT TURN LANE CLOSURES WILL BE ALLOWED ON AIRPORT WAY BETWEEN THE HOURS OF 7:30 A.M. AND 8:00 P.M.
2. PEDESTRIAN AND BICYCLE TRAFFIC SHALL BE MAINTAINED WHILE THE SIDEWALK ADJACENT TO ALASKA INDUSTRIAL HARDWARE IS BEING RELOCATED.
3. PLACE MINIMUM OF 12 INCHES COMPACTED SELECTED MATERIAL, TYPE "A" BELOW NEW 4 INCH THICK CONCRETE SIDEWALK.
4. RELOCATE FENCE 2' FEET FROM THE EDGE OF MOTOR TRAFFIC SIDE OF NEW SIDEWALK.

INDEX OF SHEETS

SHEET No.	DESCRIPTION
1	TITLE SHEET
2	STREET IMPROVEMENT PLAN
3	SIGNALIZATION PLAN
4	SIGNALIZATION SUMMAIRIES 1/2
5	SIGNALIZATION SUMMAIRIES 2/2
6	TRAFFIC SIGNAL SERVICE WIRING DETAILS
7	SIGNAL POST AND SYSTEM DETAILS
8	DETECTOR LOOP DETAILS
9	SIGNING DETAILS 1/2
10	SIGNING DETAILS 2/2
11	LIGHTING SYSTEM DETAILS 1/2
12	LIGHTING SYSTEM DETAILS 2/2
13	SIGNING AND STRIPING PLAN
14	SIGN POST AND MOUNTING DETAILS

PLANS PREPARED FOR K-MART BY:

H.M. Scott & Associates, Inc.

3380 FLAIR DR., SUITE 228
EL MONTE, CA 91731
(818) 571-6653

IN ASSOCIATION WITH:

KATZ, OKITSU & ASSOCIATES
TRAFFIC AND HIGHWAY ENGINEERS

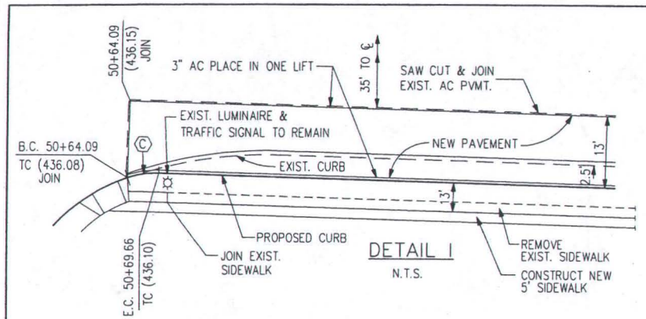
1200 CORPORATE CENTER DR., SUITE 140,
MONTEREY PARK, CA 91754
(213) 260-4703

STATE OF ALASKA — MICHAEL T. SCOTT — No. CE5100 — REGISTERED PROFESSIONAL ENGINEER

J93145 - TITLE.DWG

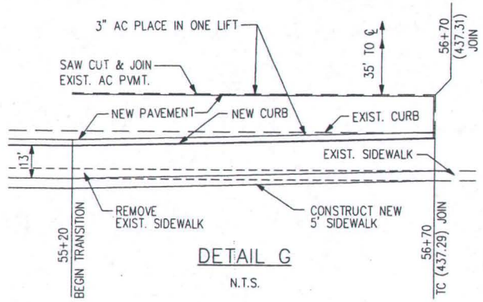
Plans from 9/15/93 FedExpress

STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA		1993	2	14



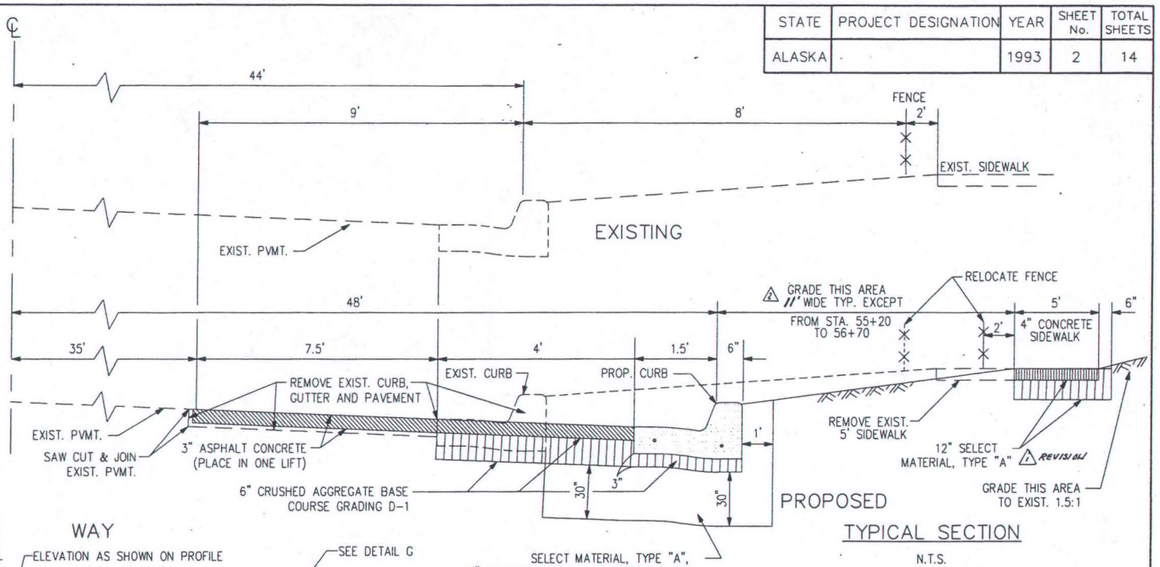
DETAIL I

N.T.S.



DETAIL G

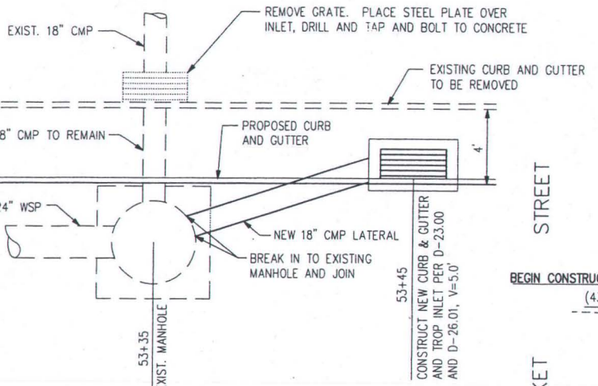
N.T.S.



PROPOSED

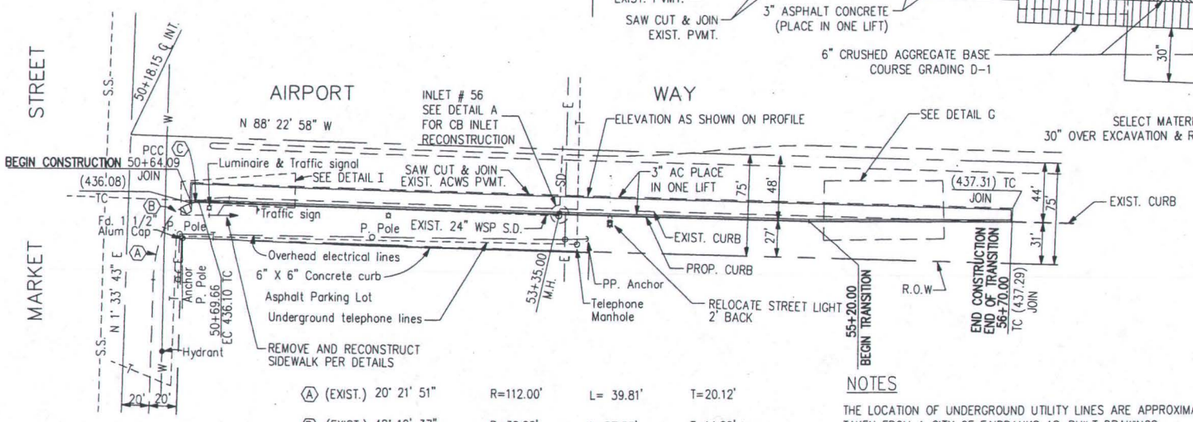
TYPICAL SECTION

N.T.S.



DETAIL A (N.T.S.)

RECONSTRUCTION DROP INLET #56 AND 18" CMP LATERAL

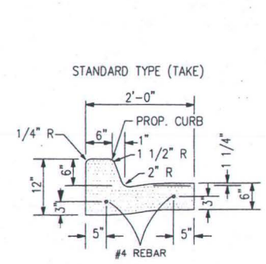


Ⓐ	(EXIST.) 20° 21' 51"	R=112.00'	L= 39.81'	T=20.12'
Ⓑ	(EXIST.) 49° 19' 37"	R=32.00'	L=27.55'	T=14.69'
Ⓒ	20° 21' 51"	R=16.00'	L=5.69'	T=2.87'

BENCH MARK: USGS C-60 ELEV. 435.70'
FROM THE INTERSECTION OF AIRPORT WAY AND UNIVERSITY AVENUE, FAIRBANK, ALASKA, THENCE WEST 900 FEET ALONG AIRPORT WAY AND ON THE SOUTH R.O.W. LINE THEREOF, 69.7 FEET SOUTHEAST OF A STREET LIGHT, 13.8 FEET SOUTH OF THE SIDEWALK, 10.0 FEET NORTH OF A POWER POLE, 2 FEET NORTH OF A 2 X 4 WITNESS POST, A STANDARD DISC, FIXED TO A 3/4 INCH BY 12 FOOT ALUMINUM ALLOY ROD DRIVEN TO REFUSAL, SET WITHIN A 4 INCH ABS SLEEVE, FLUSH WITH THE GROUND, ABOUT 1 1/2 FEET BELOW THE SIDEWLK ELEVATION.

NOTES

THE LOCATION OF UNDERGROUND UTILITY LINES ARE APPROXIMATE. TAKEN FROM A CITY OF FAIRBANKS AS-BUILT DRAWINGS. CALL F.M.U.S. 459-6447 PRIOR TO ANY EXCAVATION, AND NOTIFY UTILITIES PRIOR TO COMMENSING WORK PER SPECIFICATIONS.

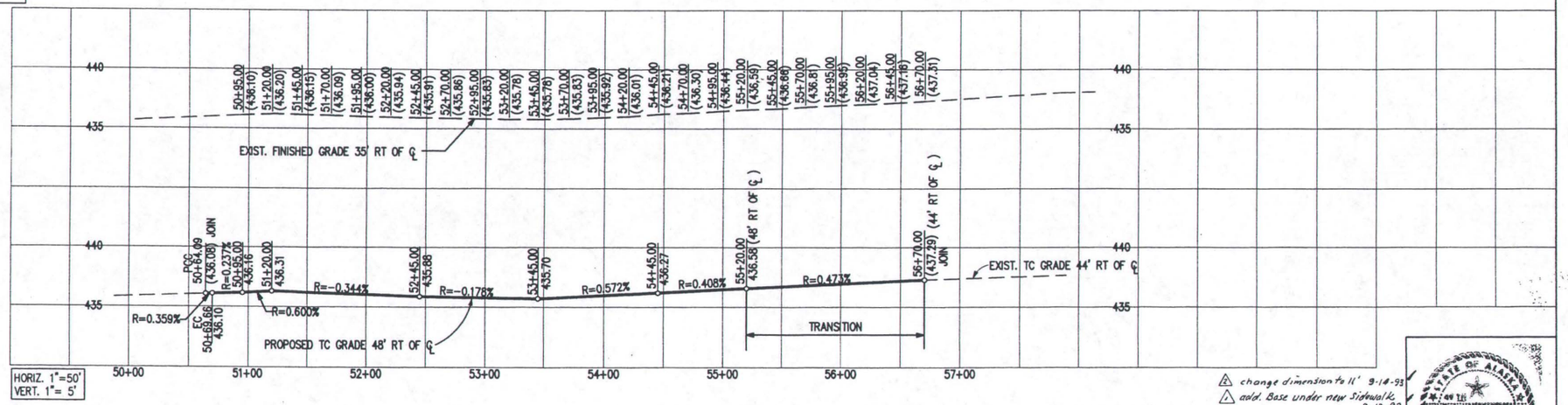


TYPE I CURB & GUTTER DETAIL

N.T.S.

CONSTRUCTION NOTES:

1. NO THROUGH OR LEFT TURN LANE CLOSURES WILL BE ALLOWED ON AIRPORT WAY BETWEEN THE HOURS OF 7:30 A.M. AND 8:00 P.M.
2. PEDESTRIAN AND BICYCLE TRAFFIC SHALL BE MAINTAINED WHILE THE SIDEWALK ADJACENT TO ALASKA INDUSTRIAL HARDWARE IS BEING RELOCATED.
3. PLACE MINIMUM OF 12 INCHES COMPACTED SELECTED MATERIAL, TYPE "A" BELOW NEW 4 INCH THICK CONCRETE SIDEWALK.
4. RELOCATE FENCE 2' FEET FROM THE EDGE OF MOTOR TRAFFIC SIDE OF NEW SIDEWALK.



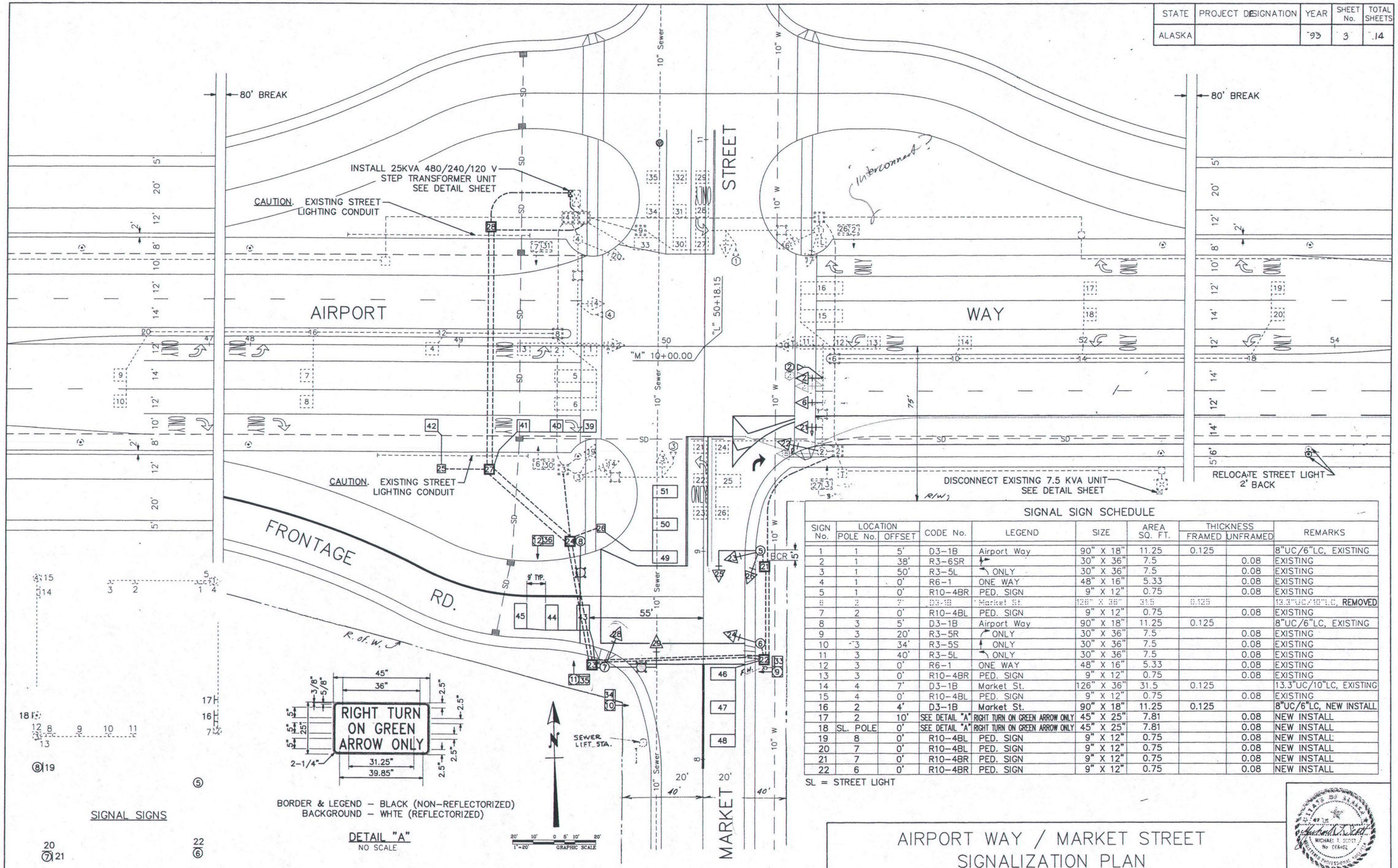
HORIZ. 1"=50'
VERT. 1"= 5'

⚠ change dimension to 11' 9-14-93
⚠ add. Base under new Sidewalk 9-13-93

STATE OF ALASKA
MICHAEL T. SCOTT
No. CE8402

AIRPORT WAY / MARKET STREET

STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA		'93	3	14



SIGNAL SIGNS

BORDER & LEGEND – BLACK (NON-REFLECTORIZED)
BACKGROUND – WHITE (REFLECTORIZED)

DETAIL "A"
NO SCALE

20' 10' 0 5' 10' 20'
1"=20' GRAPHIC SCALE

SIGNAL SIGN SCHEDULE

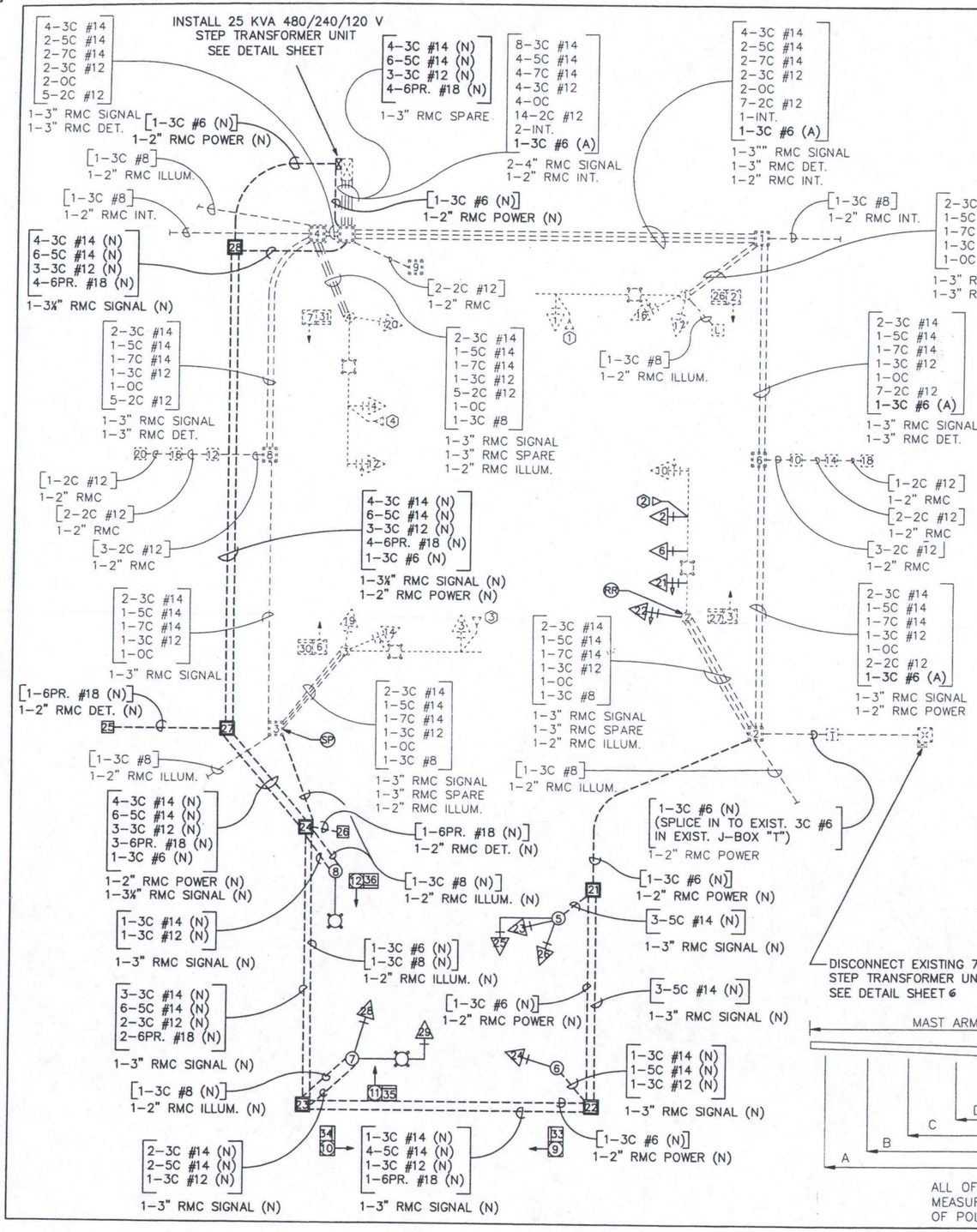
SIGN No.	LOCATION POLE No.	LOCATION OFFSET	CODE No.	LEGEND	SIZE	AREA SQ. FT.	THICKNESS FRAMED	THICKNESS UNFRAMED	REMARKS
1	1	5'	D3-1B	Airport Way	90" X 18"	11.25	0.125		8"UC/6"LC, EXISTING
2	1	38'	R3-6SR		30" X 36"	7.5		0.08	EXISTING
3	1	50'	R3-5L	ONLY	30" X 36"	7.5		0.08	EXISTING
4	1	0'	R6-1	ONE WAY	48" X 16"	5.33		0.08	EXISTING
5	1	0'	R10-4BR	PED. SIGN	9" X 12"	0.75		0.08	EXISTING
6	2	7'	D3-1B	Market St.	126" X 36"	31.5	0.125		13.3"UC/10"LC, REMOVED
7	2	0'	R10-4BL	PED. SIGN	9" X 12"	0.75		0.08	EXISTING
8	3	5'	D3-1B	Airport Way	90" X 18"	11.25	0.125		8"UC/6"LC, EXISTING
9	3	20'	R3-5R	ONLY	30" X 36"	7.5		0.08	EXISTING
10	3	34'	R3-5S	ONLY	30" X 36"	7.5		0.08	EXISTING
11	3	40'	R3-5L	ONLY	30" X 36"	7.5		0.08	EXISTING
12	3	0'	R6-1	ONE WAY	48" X 16"	5.33		0.08	EXISTING
13	3	0'	R10-4BR	PED. SIGN	9" X 12"	0.75		0.08	EXISTING
14	4	7'	D3-1B	Market St.	126" X 36"	31.5	0.125		13.3"UC/10"LC, EXISTING
15	4	0'	R10-4BL	PED. SIGN	9" X 12"	0.75		0.08	EXISTING
16	2	4'	D3-1B	Market St.	90" X 18"	11.25	0.125		8"UC/6"LC, NEW INSTALL
17	2	10'	SEE DETAIL "A"	RIGHT TURN ON GREEN ARROW ONLY	45" X 25"	7.81		0.08	NEW INSTALL
18	SL. POLE	0'	SEE DETAIL "A"	RIGHT TURN ON GREEN ARROW ONLY	45" X 25"	7.81		0.08	NEW INSTALL
19	8	0'	R10-4BL	PED. SIGN	9" X 12"	0.75		0.08	NEW INSTALL
20	7	0'	R10-4BL	PED. SIGN	9" X 12"	0.75		0.08	NEW INSTALL
21	7	0'	R10-4BR	PED. SIGN	9" X 12"	0.75		0.08	NEW INSTALL
22	6	0'	R10-4BR	PED. SIGN	9" X 12"	0.75		0.08	NEW INSTALL

SL = STREET LIGHT

AIRPORT WAY / MARKET STREET SIGNALIZATION PLAN

STATE OF ALASKA
49 AS
MICHAEL T. SCOTT
No CE8402
REGISTERED PROFESSIONAL ENGINEER

SHEET 3



WIRING DIAGRAM CODING LEGEND

OC = OPTICOM CABLE
INT = INTERCONNECT CABLE
ILL = ILLUMINATION
RMC = RIGID METAL CONDUIT
DET = DETECTOR

(RR) REROUTE FACE #10, 21, & 22 FOR ø5 AND FACE #2 & 6 FOR ø OVERLAP B

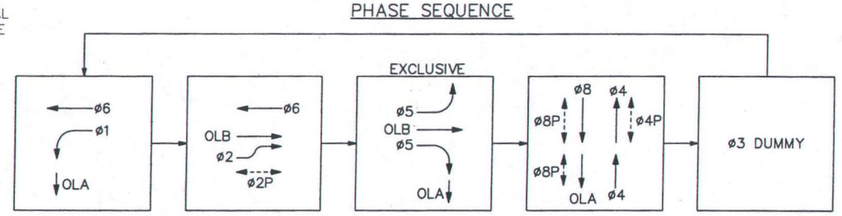
(SP) SPLICE 3C #8 ILLUM. AT J BOX #3 (TIE INTO EXISTING ILLUM. CIRCUIT)

5C #14 TRAFFIC SIGNALS
7C #14 PROTECTED-PERMITTED SIGNALS
3C #14 PEDESTRIAN SIGNALS
3C #12 PEDESTRIAN PUSH-BUTTON
2C #12 LOOP LEAD-IN CABLE
3C #8 ILLUMINATION
3C #6 SIGNAL POWER
6PR. #18 LOOP LEAD-IN CABLE

ALL WIRE AND CONDUIT EXISTING EXCEPT WHERE SHOWN: (N) = NEW; (A) = ABANDONED

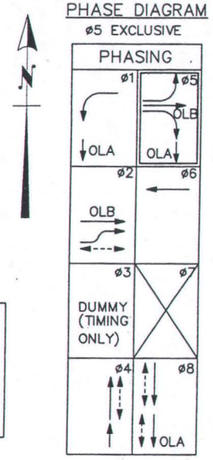
STATE	PROJECT DISIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA		93	4	14

PHASE SEQUENCE



PHASE DIAGRAM

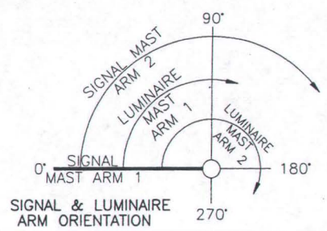
ø5 EXCLUSIVE



POLE-POST DESIGN LOADING SCHEDULE

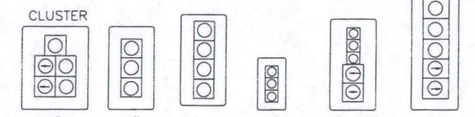
POLE No.	CORNER	LUM. ARM L. (FT.)	SIGNAL ARM L. (FT.)		A	B	C	D	E	F	REMARKS
1	NE	15'	51'	SIGNAL OR SIGN	SIGN	SIGNAL	SIGN	SIGN			
				LOC. OFFSET (FT.)	50'	44'	38'	5'			
				L X W OR S.F.	30" X 36"	11.5 SF	30" X 36"	90" X 18"			
2	SE	15'	52'	SIGNAL OR SIGN	SIGNAL	SIGNAL (R)	SIGNAL (N)	SIGNAL (N)	SIGN (N)	SIGN (N)	
				LOC. OFFSET (FT.)	51'	38'	25'	14'	10'	4'	
				L X W OR S.F.	11.5 SF	11.5 SF	11.5 SF	11.5 SF	45" X 25"	90" X 18"	
3	SW	15'	47'	SIGNAL OR SIGN	SIGN	SIGNAL	SIGN	SIGN	SIGN		
				LOC. OFFSET (FT.)	46'	40'	34'	20'	5'		
				L X W OR S.F.	30" X 36"	11.5 SF	30" X 36"	30" X 36"	90" X 18"		
4	NW	15'	52'	SIGNAL OR SIGN	SIGNAL	SIGNAL	SIGN				
				LOC. OFFSET (FT.)	51'	31'	7'				
				L X W OR S.F.	11.5 SF	11.5 SF	126" X 36"				
5 (N)	* NE		20' (N)	SIGNAL OR SIGN	SIGNAL (N)						
				LOC. OFFSET (FT.)	19'						
				L X W OR S.F.	11.5 SF						
6 (N)	* SE										TYPE 12' HIGH POST
7 (N)	* SW	15' (N)	26' (N)	SIGNAL OR SIGN	SIGNAL (N)						
				LOC. OFFSET (FT.)	25'						
				L X W OR S.F.	11.5 SF						
8 (N)	* NW	12' (N)									30' HIGH LIGHT POLE

LOCATION OFFSETS ARE FROM CENTER OF SIGNAL HEAD TO ℄ OF SIGNAL POLE
ALL EQUIPMENT EXISTING EXCEPT WHERE SHOWN: (N)=NEW; (R)=RELOCATED
* POLE/POST AT MARKET STREET / SOUTH FRONTAGE ROAD
FIELD VERIFICATION PRIOR TO FINAL VEH. HEAD LOCATION THROUGH D.O.T. TRAFFIC SECTION



SIGNAL & LUMINAIRE ARM ORIENTATION

SIGNAL HEAD CONFIGURATIONS
(AREAS ARE FOR WIND LOAD CALCULATIONS)



AIRPORT WAY / MARKET STREET SIGNALIZATION SUMMARIES 1/2

STATE OF ALASKA — MICHAEL T. SCOTT — 10483

STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA		93	5	14

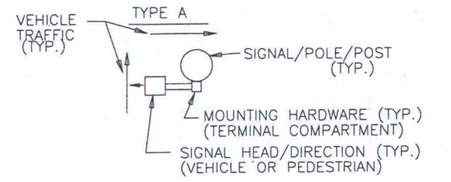
DETECTOR SCHEDULE

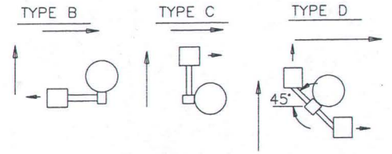
DETECTOR No.	LOCATION	EXISTING OR NEW (INSTALL)	ASSIGNMENT				PHASE CALLS DURING (D=DELAY, E=EXTENSION)			INSTALLATION				
			CHAN. No.	PHASE	CABLE No.	ASC 8000	GREEN	YELLOW	RED	DIMENSIONS L	DIMENSIONS W	No. TURNS	CONNECT IN SERIES WITH	REMARKS
1	"L" 49+73	EXISTING		5			5	5D	5D	6	6	3	2,3	
2	"L" 49+58	EXISTING		5			5	5D	5D	6	6	3	1,3	
3	"L" 49+43	EXISTING		5			5	5D	5D	6	6	3	1,2	
4	"L" 48+99	EXISTING		5			5E			6	6	3		
5	"L" 49+73	EXISTING		2					2D	20	6	2	6	
6	"L" 49+73	EXISTING		2					2D	20	6	2	5	
7	"L" 48+32	EXISTING		2			2			6	6	3	8	
8	"L" 48+32	EXISTING		2			2			6	6	3	7	
9	"L" 46+67	EXISTING		2			2	2D	2	6	6	3	10	
10	"L" 46+67	EXISTING		2			2	2D	2	6	6	3	9	
11	"L" 50+59	EXISTING		1			1	1D	1D	6	6	3	12,13	
12	"L" 50+74	EXISTING		1			1	1D	1D	6	6	3	11,13	
13	"L" 50+89	EXISTING		1			1	1D	1D	6	6	3	11,12	
14	"L" 51+33	EXISTING		1			1E			6	6	3		
15	"L" 50+59	EXISTING		6					6D	20	6	2	16	
16	"L" 50+59	EXISTING		6					6D	20	6	2	15	
17	"L" 52+00	EXISTING		6			6			6	6	3	18	
18	"L" 52+00	EXISTING		6			6			6	6	3	17	
19	"L" 53+65	EXISTING		6			6	6	6	6	6	3	20	
20	"L" 53+65	EXISTING		6			6	6	6	6	6	3	19	
21	"M" 9+55	EXISTING		4			4	4D	4D	6	6	3	22,23	
22	"M" 9+40	EXISTING		4			4	4D	4D	6	6	3	21,23	
23	"M" 9+25	EXISTING		4			4	4D	4D	6	6	3	21,22	
24	"M" 9+55	EXISTING		4			4	4D	4D	6	6	3	25,26	
25	"M" 9+40	EXISTING		4			4	4D	4D	6	12	2	24,26	
26	"M" 10+47	EXISTING		4			4	4D	4D	6	6	3	24,25	
27	"M" 10+47	EXISTING		8			8	8D	8D	6	6	3	28,29	
28	"M" 10+62	EXISTING		8			8	8D	8D	6	6	3	27,29	
29	"M" 10+77	EXISTING		8			8	8D	8D	6	6	3	27,28	
30	"M" 10+47	EXISTING		8			8	8D	8D	6	6	3	31,32	
31	"M" 10+62	EXISTING		8			8	8D	8D	6	6	3	30,32	
32	"M" 10+77	EXISTING		8			8	8D	8D	6	6	3	30,31	
33	"M" 10+47	EXISTING		8			8	8D	8D	6	12	2	34,35	
34	"M" 10+62	EXISTING		8			8	8D	8D	6	6	3	33,35	
35	"M" 10+77	EXISTING		8			8	8D	8D	6	6	3	33,34	
39	"L" 49+65	NEW INSTALL	1	5	1	5	5	5D	5D	6	6	3	40,41	
40	"L" 49+50	NEW INSTALL	1	5	1	5	5	5D	5D	6	6	3	39,41	
41	"L" 49+35	NEW INSTALL	1	5	1	5	5	5D	5D	6	6	3	39,40	
42	"L" 48+91	NEW INSTALL	2	5	1	5	5E			6	6	3		
43	AS SHOWN	NEW INSTALL	3	2	2	2	2	2D	2D	6	12	2	44,45	
44	AS SHOWN	NEW INSTALL	3	2	2	2	2	2D	2D	6	12	2	43,45	
45	AS SHOWN	NEW INSTALL	3	2	2	2	2	2D	2D	6	12	2	43,44	
46	"M" 8+45	NEW INSTALL	4	4	3	4	4	4D	4D	6	12	2	47,48	
47	"M" 8+30	NEW INSTALL	4	4	3	4	4	4D	4D	6	12	2	46,48	
48	"M" 8+15	NEW INSTALL	4	4	3	4	4	4D	4D	6	12	2	46,47	
49	"M" 8+95	NEW INSTALL	5	8	4	8	8	8D	8D	6	12	2	50,51	
50	"M" 9+10	NEW INSTALL	5	8	4	8	8	8D	8D	6	12	2	49,51	
51	"M" 9+25	NEW INSTALL	5	8	4	8	8	8D	8D	6	12	2	49,50	

VEHICULAR SIGNAL HEAD SCHEDULE

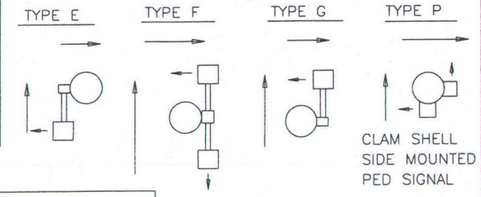
POLE/POST No.	FACE No.	INDICATIONS 12" BALL R	12" BALL Y	12" BALL G	12" ARROW R	12" ARROW Y	12" ARROW G	8" BALL R	8" BALL Y	8" BALL G	PROG. VISIB.	MOUNTING MAST ARM LOC. OFFSET	MAST ARM ELEV. PLUMB.	SIDE MTNG. TYPE	TOP OF POST	REMARKS
1	1											44'				EXISTING
	16											0'		G		EXISTING
	17											0'		G		EXISTING
2	2											38'				RELOCATED
	10											51'				EXISTING
	18															REMOVED
	6											25'				NEW INSTALL
	21											14'				NEW INSTALL, RT. TURN ARROWS
	22											0'		G		NEW INSTALL, RT. TURN ARROWS
3	3											40'				EXISTING
	14											0'		G		EXISTING
	19											0'		G		EXISTING
4	4											31'				EXISTING
	12											51'				EXISTING
	20											0'		G		EXISTING
5	23											0'		F		NEW INSTALL
	26											0'		F		NEW INSTALL
	25											19'				NEW INSTALL
6	24											0'				NEW INSTALL
7	28											0'		G		NEW INSTALL
	29											25'				NEW INSTALL

POLE/POST SIGNAL HEAD SIDE MOUNTING TYPES





USE WITH ONE OR TWO HEADS



CLAM SHELL SIDE MOUNTED PED SIGNAL

JUNCTION BOX SUMMARY

JUNCTION BOX NO.	STATION	LOCATION LT	LOCATION RT	TYPE	CIRCUITS	REMARKS
1	EXISTING					EXISTING
2	EXISTING					EXISTING
3	EXISTING					EXISTING
4	EXISTING					EXISTING
6	EXISTING					EXISTING
8	EXISTING					EXISTING
9	EXISTING					EXISTING
10	EXISTING					EXISTING
12	EXISTING					EXISTING
14	EXISTING					EXISTING
16	EXISTING					EXISTING
18	EXISTING					EXISTING
20	EXISTING					EXISTING
T	EXISTING					EXISTING
21	"M" 8+93		X	II		NEW INSTALL
22	"M" 8+48		X	II		NEW INSTALL
23	"M" 8+48	X		II		NEW INSTALL
24	"M" 9+12	X		II		NEW INSTALL
25	"L" 49+00		X	1A		NEW INSTALL
26	"M" 9+12	X		1A		NEW INSTALL
27	"L" 49+15		X	II		NEW INSTALL
28	"L" 49+15	X		II		NEW INSTALL

FLASH PROGRAM COLOR

PHASE	1	2	3	4	5	6	7	8	OLA	OLB	OLC	OLD
COLOR	R	Y	R	R	R	Y	*	R	R	Y	*	*

* = FUTURE

OPTICOM DETECTOR SCHEDULE

LOCATION	DETECTOR No.	PHASE CALL	FACING DIRECTION	PREEMPTOR PRIORITY
ON TOP OF SIGNAL #1	①	ø4	S	
ON TOP OF SIGNAL #2 (R)	② (R)	ø2	W	
ON TOP OF SIGNAL #3	③	ø8	N	
ON TOP OF SIGNAL #4	④	ø1 & ø6	E	

ALL EQUIPMENT EXISTING EXCEPT WHERE SHOWN: (N)=NEW; (R)=RELOCATED

PEDESTRIAN DETECTOR SCHEDULE

POLE No.	PUSH BUTTON	PHASE	REMARKS
1	2	4	EXISTING
2	3	4	EXISTING
3	6	8	EXISTING
4	7	8	EXISTING
6	9	2	NEW INSTALL
7	10	2	NEW INSTALL
	11	8	NEW INSTALL
8	12	8	NEW INSTALL

PEDESTRIAN SIGNAL HEAD SCHEDULE

POLE No.	FACE No.	MOUNTING TYPE	PHASE	REMARKS
1	26	G	4	EXISTING
2	27	G	4	EXISTING
3	30	G	8	EXISTING
4	31	G	8	EXISTING
6	33	P	2	NEW INSTALL
7	34	P	2	NEW INSTALL
	35	P	8	NEW INSTALL
8	36	P	8	NEW INSTALL

AIRPORT WAY / MARKET STREET
SIGNALIZATION SUMMARIES 2/2

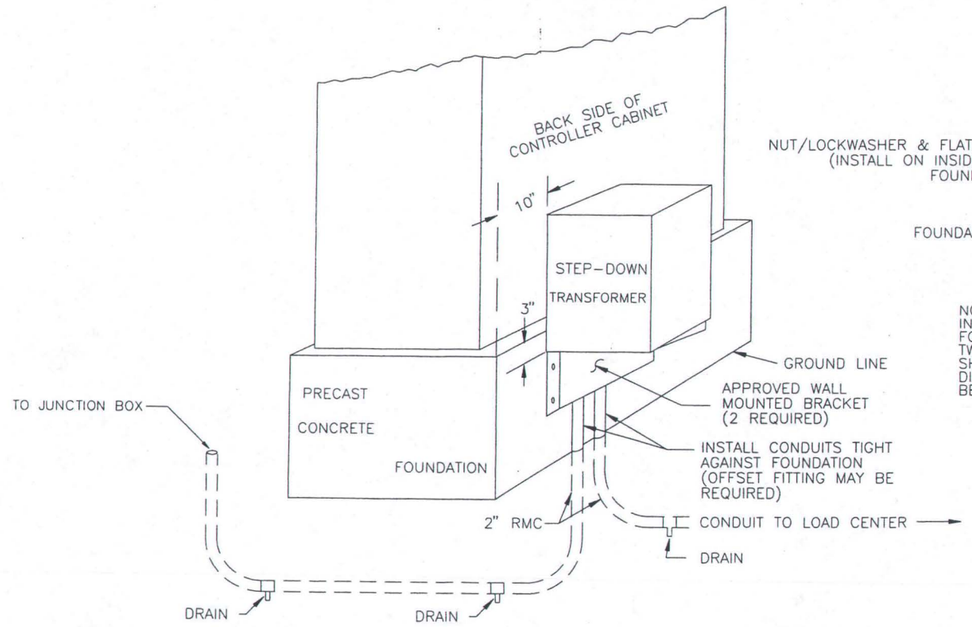
STATE OF ALASKA — Michael A. Scott — REGISTERED ENGINEER

SHEET 5

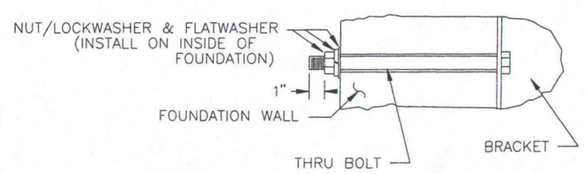
STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA		'93	6	14

See also sheet 6A for drawings that were attached to this sheet prior to scan on to CD

CONTROLLER CABINET MOUNTED TRANSFORMER DETAIL

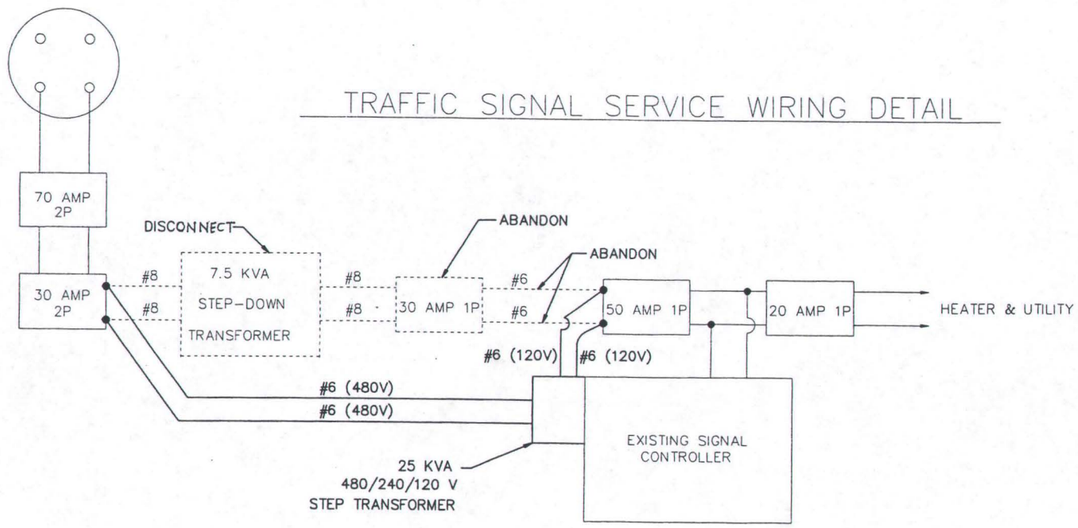


THRU BOLT DETAIL



NOTE:
INSTALL MOUNTING BRACKETS BY FIELD DRILLING FOUNDATION AND THRU BOLTING WITH A MINIMUM OF TWO 1/2" BOLTS PER BRACKET. DRILLED HOLES SHALL HAVE A MAXIMUM SIZE OF 1/4" LARGER DIAMETER THAN BOLT AND ANY SPALLING SHALL BE REPAIRED PRIOR TO INSTALLING BRACKETS.

TRAFFIC SIGNAL SERVICE WIRING DETAIL



AIRPORT WAY / MARKET STREET
TRAFFIC SIGNAL SERVICE WIRING DETAILS

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA		'93	6A	14

See also sheet 6. These drawings were attached to sheet 6 prior to scan on to CD

L-30.02 SHEET 1 of 1

SPREAD FOOTING

1. Prior to the erection of the pole, thoroughly compacted backfill shall be placed 4" min. depth on footing.
2. The footings shall be poured on undisturbed soil or if in a fill section on thoroughly compacted material.

SLIP BASE ANCHOR BOLT ARRANGEMENT
(For Type L, S, or W Footings)

FLANGE BASE ANCHOR BOLT ARRANGEMENT
(For Type L, S, or W Footings)

HOOK ANCHOR BOLT

STEEL PLATE ANCHOR BOLT

DETAIL "A"
(Type L, S or W Footing)

Type I
SPREAD FOOTING

Type II

Type III

CAST-IN-DRILLED HOLE FOOTINGS
(Cross Sectional View of Footing and Roadway Forestays)

GENERAL NOTES:

1. All footings shall be cast in place.
2. Alignment of footings, Type I or (Type II, III, IV), shall be at the discretion of the contractor unless otherwise indicated on the plans or specifications.
3. All exposed concrete edges shall be chamfered 3/4".
4. The bottom of drilled hole footings shall be cleaned of any loose material before pouring concrete.
5. The Contractor may use hook or steel plate anchor bolts at his option unless otherwise indicated on the plans or in the specifications. The length of hook bolts for Type I and Type II footings and 54" minimum length for Type III footings.
6. CIDH footings shall be cast in drilled holes with the P.C.C. placed in direct contact with the undisturbed surface of the hole. No forming or backfilling will be permitted except the top foot of foundation may be formed.

STRUCTURAL NOTES:

1. Concrete shall conform to Class "A" concrete.
2. Reinforcing steel shall be deformed bars of billet steel conforming to ASTM A-615, Grade 40.
3. Each spiral rebar unit within each footing shall have 1 1/2 turns of the rebar at each end of the unit.
4. Anchor bolts, nuts and washers shall be high strength steel and shall conform to ASTM A-449. Galvanizing of anchor bolts, nuts and washers shall conform to ASTM A-153.
5. Grout shall be 3 parts sand to 1 part cement. Grout shall meet the requirements of the Specifications for fine aggregate for concrete. The grout shall contain only enough water to permit placing and packing.
6. Steel Anchor Plates shall conform to ASTM A36.

DESIGNED	DRAWN	CHECKED	QUANTITIES
3/0/91	3/0/91	3/0/91	

NO.	DATE	BY	REVISION

State of Alaska
Department of Transportation & Public Facilities

FOOTING FOR LIGHTING STANDARDS

APPROVED
3/0/91
Date

L-30.02

Design Assumptions:
Wind Velocity = 80 mph
Wind pressure = 25 psf
$E = 10^{10}$
Cohesion=0

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	~~RD-065-1(18)/65000~~	1993	14	38

"Z"

MAST ARM DATA

LENGTH K	BOLT CIRCLE
10' to 14'	11-1/2"
16' to 20'	12-1/2"
22' to 26'	13-1/2"
28' to 32'	14-1/2"
34' to 38'	15
40' to 44'	15-1/2"

SEE TABLE ABOVE BOLT CIRCLE DIAMETER
1/2"
MAST ARM
1 1/2" BOLTS

SEE TABLE ABOVE BOLT CIRCLE DIAMETER
1 1/2" BOLTS

MAST ARM CONNECTION DETAIL

ALTERNATE
AS SPECIFIED ON PLAN
15'
TRAVELED WAY
FOR POST EXTENSION HEIGHT, SEE LUMINAIRE POLE & ARM STD DRAWING.
K
M
N
19'0" MAX.
17'6" MIN.
12"
TRAVELED WAY
10'
12"
SEE HANDHOLE DETAIL

GENERAL NOTES

1. FABRICATION AND INSTALLATION OF STRUCTURAL SUPPORT SYSTEMS FOR TRAFFIC SIGNALS AND/OR LUMINAIRES SHALL CONFORM TO THE LATEST AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" (1975) EXCEPT AS NOTED ON THIS DRAWING
2. POLES AND ARMS SHALL BE ROUND STEEL TUBES CONFORMING TO SECTION 4 - STEEL DESIGN OF AASHTO SPECIFICATION IN NOTE 1.
3. GROUP LOADS SHALL BE GROUP I(DEAD LOAD + WIND) OF SECTION 3 - LOADS OF AASHTO SPECIFICATION IN NOTE 1.
4. WIND LOADS SHALL BE SPECIFIED ON PLANS.
5. SIGNAL MAST ARM AND POLE LENGTH SHALL BE SPECIFIED ON PLANS.
6. POLES AND ARMS SHALL HAVE UNIFORM TAPER.
7. HANDHOLE DETAILS ARE TO INDICATE GENERAL DESIGN ONLY AND MAY BE ALTERED TO CONFORM WITH MANUFACTURERS FABRICATION DESIGN.
8. CAST IN DRILL HOLE FOOTING SHALL BE CAST IN DRILLED HOLES WITH P.C.C. PLACED IN DIRECT CONTACT WITH THE UNDISTURBED SURFACE OF THE HOLE. NO FORMING OR BACKFILLING WILL BE PERMITTED EXCEPT THE TOP FOOT OF THE FOUNDATION MAY BE FORMED.
9. ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A325. THEY SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.

Foundation detail For use on ELMMOT Project.

(4)2" ANCHOR BOLTS WITH (2) HEX NUTS AND (2) WASHERS PER BOLT SEE FOOTING DETAILS.
4 1/2"
4"
3/8" GALVANIZED BOLT, NUT & WASHER
2" STANDARD PIPE, INSIDE GROUND SMOOTH
SIGNAL MAST ARM
PLUMBIZER SIGNAL MOUNTING

(12) NO.8 BARS EVENLY SPACED
POLE BASE DETAIL

10'
4'
3" CLEARANCE
8'
4'
22" DIA. BOLT CIRCLE
(4) 2" X 64" X 12" ANCHOR BOLTS WITH (2) HEX NUTS AND (2) WASHERS PER BOLT.
2" CONDUIT, EXTEND CONDUIT 2" MAX. ABOVE BASE
NO. 2 BAR SPIRAL
#6 at 12"
10"
2"
6"
36"
18"
3" MIN.
3"
2"
2"
3"
#7 at 6"
#4 at 12"
13"
SPREAD FOOTING DETAIL

STIFFENER
4" X 6 1/2" HANDHOLE
HANDHOLE COVER
HANDHOLE DETAIL

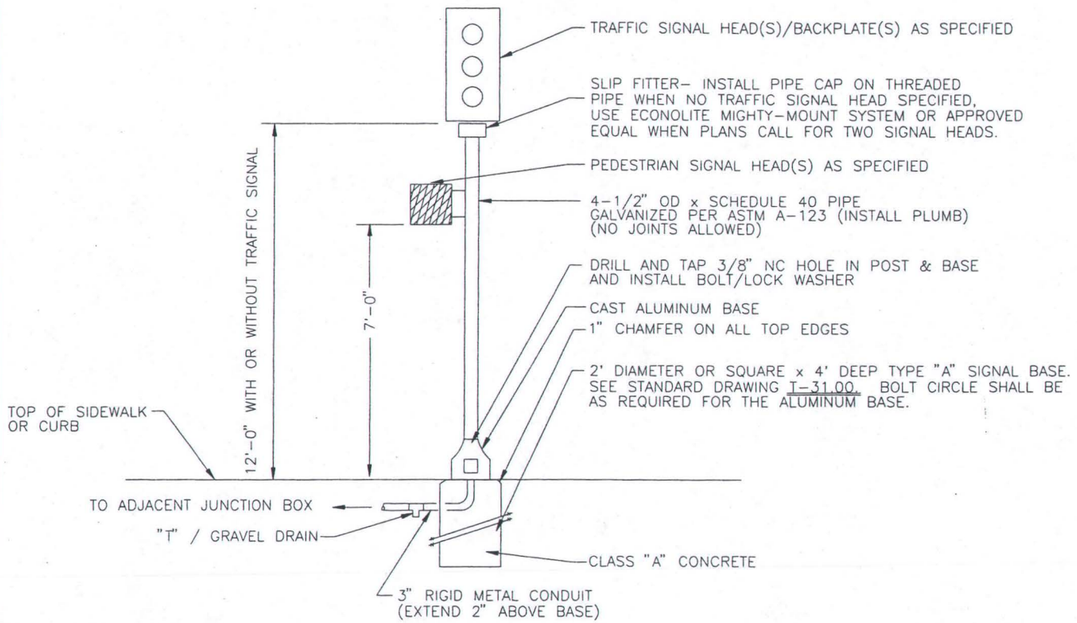
POLE O.D. + 1/16"
22" BOLT CIRCLE
BASE PLATE

2" CONDUIT, EXTEND CONDUIT 2" MAX. ABOVE BASE
(4)2" X 84" X 6" ANCHOR BOLTS WITH (2) HEX NUTS AND (2) WASHERS PER BOLT.
BASE PLATE
1" CHAMFER
PLACE PCC AGAINST UNDISTURBED MATERIAL
(24)NO. 4 BARS NO. 4 TIE BARS AT 18"
10"
18"
2"
9'
36"
2"
4"
CIDH FOOTING DETAIL

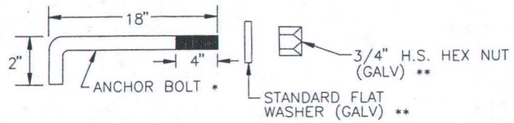
SIGNAL POLE DETAIL

STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA		93	7	14

SIGNAL POST DETAIL



ANCHOR BOLTS



* MEETS ASTM A–572 GALVANIZED PER ASTM A–153

** MEETS ASTM A–325 GALVANIZED PER ASTM A–153

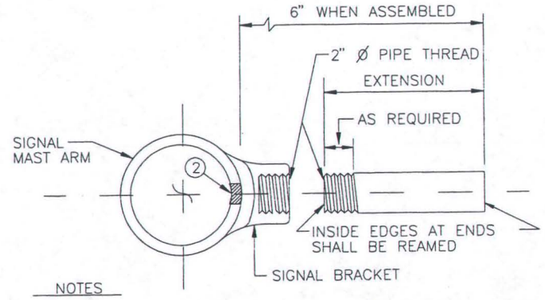
MATERIAL LIST *

1 TWO FOOT DIAMETER OR SQUARE x 4' BASE & 4 ANCHOR BOLTS, AND ONE 3" CONDUIT
1– POST TOP SLIP FITTER. (SEE STANDARD DRAWING T–30.00)
1– POST & BREAKAWAY CAST ALUMINUM BASE; VE PED CATALOG #0–SE–5030 OR APPROVED EQUAL.

MATERIAL LISTED ARE FOR ONE INSTALLATION AND DOES NOT INCLUDE SIGNAL HEADS AND MOUNTING HARDWARE.

PLUMBIZER SIGNAL MOUNTING DETAIL

(REQUIRED FOR ALL NEW OR RELOCATED PLUMBIZER [MAST ARM] MOUNTED SIGNALS)



NOTES

1. THESE DETAILS MODIFY SHEET No. "SIGNAL POLE DETAIL" PER PROJECT DOCUMENTS ✓
2. FIELD DRILL WIRING ACCESS HOLE AS REQUIRED. REAM INSIDE & OUTSIDE AND PAINT WITH SPELTER REPAIR MATERIAL.
3. ONE 2" GALVANIZED SCHEDULE 40 RIGID METAL CONDUIT EXTENSION SHALL BE FURNISHED WITH EACH SIGNAL BRACKET.
4. SIGNAL BRACKETS SHALL BE ASTRO–BRAC AB–3008AK OR APPROVED EQUAL AND SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER. THE ACTUAL LOCATION OF BRACKETS ON EACH ARM SHALL BE DETERMINED BY THE ENGINEER AFTER THE POLES AND ARMS HAVE BEEN INSTALLED.

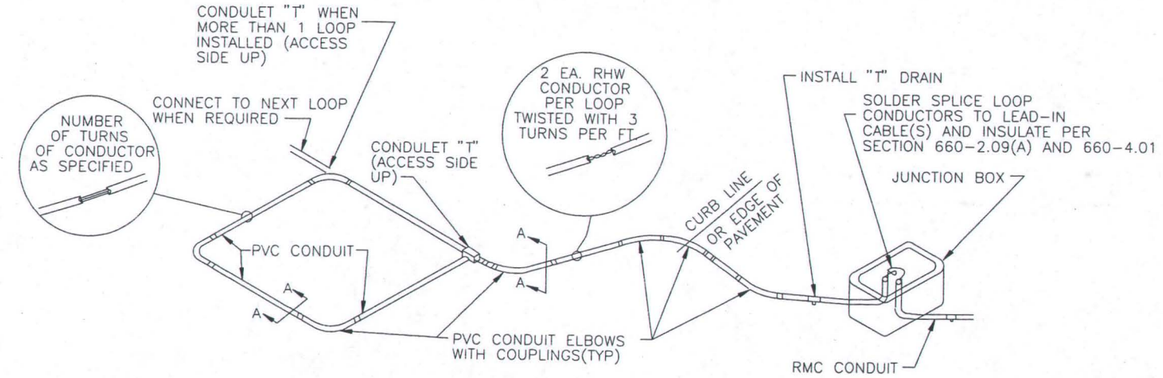
SIGNAL NOTES

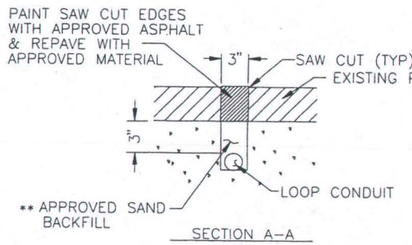
1. SIGNAL POLE ANCHOR BOLTS AND NUTS SHALL BE ASTM A–449 WITH THE TOP 12 INCH OF THE BOLT THREADED AND GALVANIZED IN ACCORDANCE WITH ASTM A–153.
2. ACCESS HANDHOLES WITH COVERS SHALL BE FURNISHED ON THE BACK OF SIGNAL MAST ARM ATTACHMENT AND SHALL BE 4" X 6–1/2" HIGH OR AS APPROVED BY THE ENGINEER.
3. ALL CONDUITS, J–BOXES, AND FOUNDATIONS TO BE INSTALLED IN AREAS OF PAVING, SIDEWALKS OR CURB AND GUTTER SHALL BE INSTALLED PRIOR TO PAVING OR POURING OF CONCRETE.
4. PRIOR TO DRILLING HOLES OR INSTALLING POLE/POST MOUNTED PEDESTRIAN OR TRAFFIC SIGNALS THE CONTRACTOR, WITH THE ENGINEEER, SHALL CHECK FOR VISIBILITY PROBLEMS AND REVISE MOUNTING AS APPROVED BY THE REGIONAL TRAFFIC SAFETY ENGINEER. THIS WORK AND MATERIAL SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION.
5. GROUT MIXES SHALL BE AS APPROVED BY THE ENGINEER.
6. AREAS OF PAVEMENT, SIDEWALK, AND CURB AND GUTTER SHALL REQUIRE REMOVAL AND REPLACEMENT TO ALLOW FOR INSTALLATION OF DETECTION LOOPS CONDUITS, J–BOXS, AND FOUNDATIONS. LOCATIONS REQUIRING REMOVAL SHALL HAVE FULL DEPTH SAW CUTS WHERE THERE ARE NO CONSTRUCTION JOINTS. THE SIDEWALK AND/OR CURB AND GUTTER SHALL BE REMOVED FULL WIDTH AND TO THE NEAREST CONSTRUCTION OR CONTRACTION JOINT UNLESS OTHERWISE APPROVED BY THE ENGINEER. (SEE SECTION 606–2.02) THIS WORK SHALL BE INCIDENTAL TO SECTION 660 BID SCHEDULE PAY ITEMS.
7. SIGNAL POLE/POST FOUNDATIONS SHALL BE POURED PRIOR TO CONSTRUCTION THE ADJACENT SIDEWALK (CURB RAMPS) AND SHALL BE LEVEL WITH THE TOP AND BACK ADJACENT SIDEWALK (CURB RAMPS) GRADES. JUNCTION BOXES AND CONSUIT LOCATED IN AREAS OF NEW SIDEWALK (CURB RAMP) SHALL BE INSTALLED AND SET TO GRADE PRIOR TO POURING NEW SIDEWALK (CURB RAMP). NEW SIDEWALK. ALIGNMENT SHALL BE STAKED PRIOR TO INSTALLING JUNCTION BOXS OR POLE/POST FOUNDATION.
8. ALL EXISTING FOUNDATIONS, CONDUIT RUNS, AND JUNCTION BOXS NOTED FOR REMOVAL SHALL BE EXCAVATED FULL–DEPTH AND COMPLETELY REMOVED. THE RESULTING HOLES AND TRENCHS SHALL BE BACKFILLED WITH MATERIAL EQUIVALENT TO AND COMPACTED TO THE DENSITY OF THE SURROUNDING GROUND.
9. ALL INDUCTIVE LOOP DETECTORS SHALL BE TWO CHANNEL UNITS WITH DELAY AND EXTENSION TIMING FEATURES.
10. ALL WORK AND MATERIALS REQUIRED TO INSTALL THE OPTICOM SYSTEM SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION.
11. ALL OPTICOM DETECTORS SHALL BE MOUNTED AND AIMED SO AS TO PROVIDE MAXIMUM EMERGENCY VEHICLE RECOGNITION. OPTICOM DETECTOR LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE AND SUBJECT TO CHANGE AS DIRECTED BY THE ENGINEER.
12. OPTICOM DETECTORS SHALL BE MOUNTED AS APPROVED BY THE ENGINEER.
13. BOTH OPTICOM DETECTOR SCOPES SHALL BE AIMED AT THE APPROPRIATE LANES. OPTICOMS MOUNTED ABOVE SIGNAL HEADS SHALL BE INSTALLED IN A MANNER WHICH DOES NOT REQUIRE MODIFICATION TO THE SIGNAL BACKPLATES OR HEADS.

AIRPORT WAY / MARKET STREET
SIGNAL POST AND SYSTEM DETAILS

STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA		'93	8	14

SIGNAL SYSTEM DETECTION LOOP DETAILS





SECTION A-A

*LOOPS TO BE INSTALLED BENEATH NEW PAVING SHALL BE INSTALLED PRIOR TO PAVING.
** REQUIRED WITH NEW AND EXISTING PAVEMENT CONDITIONS.

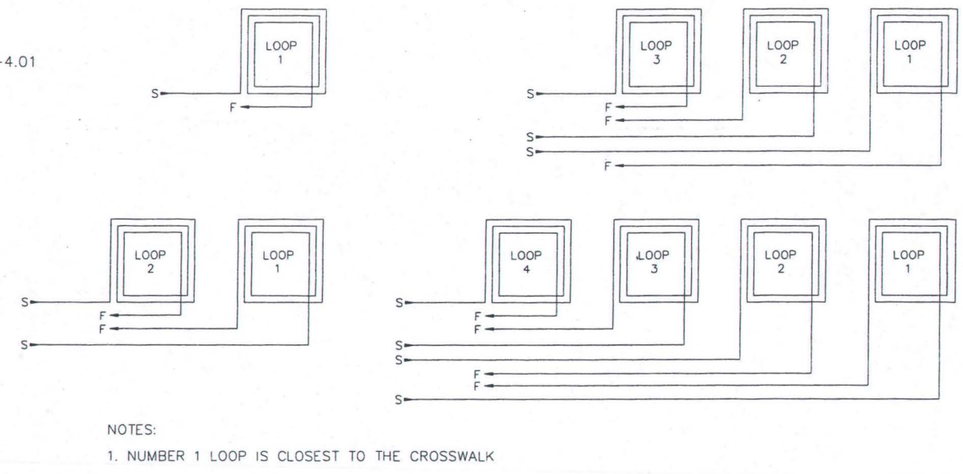
RMC = RIGID METAL CONDUIT
PVC = POLYVINYLCHLORIDE (SCH.40)

TYPE LOOP	CONDUIT SIZE-TYPE	WIRE SIZE	NUMBER OF TURNS	LOOP SIZE
SIGNAL SYSTEM	1" PVC	#12	①	①

① SEE DETECTION SCHEDULE (SUMMARY)

1. ALL NEW LOOP CONDUIT & FITTINGS SHALL BE RIGID PVC WITH SOLVENT WELDED CONNECTIONS.
2. EACH PAIR OF CONDUCTORS FROM LOOPS TO JUNCTION BOXES SHALL HAVE IDENTIFICATION BANDS PER SECTION 660-2.09(A) AND 660-4.01. ALL EXISTING LEAD-IN CABLES SHALL ALSO BE BANDED AT THE CONTROLLER WITH NEW LOOP NUMBERS.
3. SEE SECTION 660-4.01 FOR ADDITIONAL INFORMATION.
4. THE DETECTOR HARNESS SHALL BE LABELED WITH THE APPROPRIATE LOOP DETECTOR NUMBERS AND SIGNAL PHASE NUMBERS.
5. LOOPS SHALL BE SPLICED TOGETHER IN THE JUNCTION BOXES OR CONTROLLER CABINETS, IN PARALLEL OR SERIES COMBINATIONS AS SHOWN ON THE INTERSECTION DETAILS, NOTES, AND SCHEDULES (SUMMARIES).
6. WHEN STATIONS ARE LISTED IN A LOOP DETECTOR SUMMARY THEY ARE TO THE FRONT EDGE OF THE LOOP NEAREST THE INTERSECTION. ALL LOOPS SHALL BE CENTERED IN THE LANE UNLESS NOTED OR DETAILED OTHERWISE.
7. ALL EXISTING DETECTION SHALL REMAIN FUNCTIONAL UNTIL APPROVED OTHERWISE BY THE ENGINEER.
8. BEFORE ANY EXISTING LOOP IS DISCONNECTED, THE ENGINEER SHALL BE NOTIFIED 48 HOURS IN ADVANCE TO ALLOW FOR EQUIPMENT ADJUSTMENT.

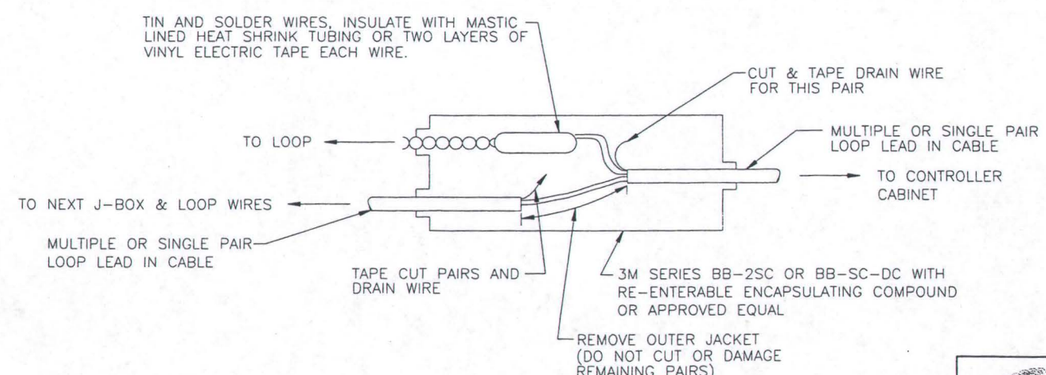
WINDING DETAILS



NOTES:

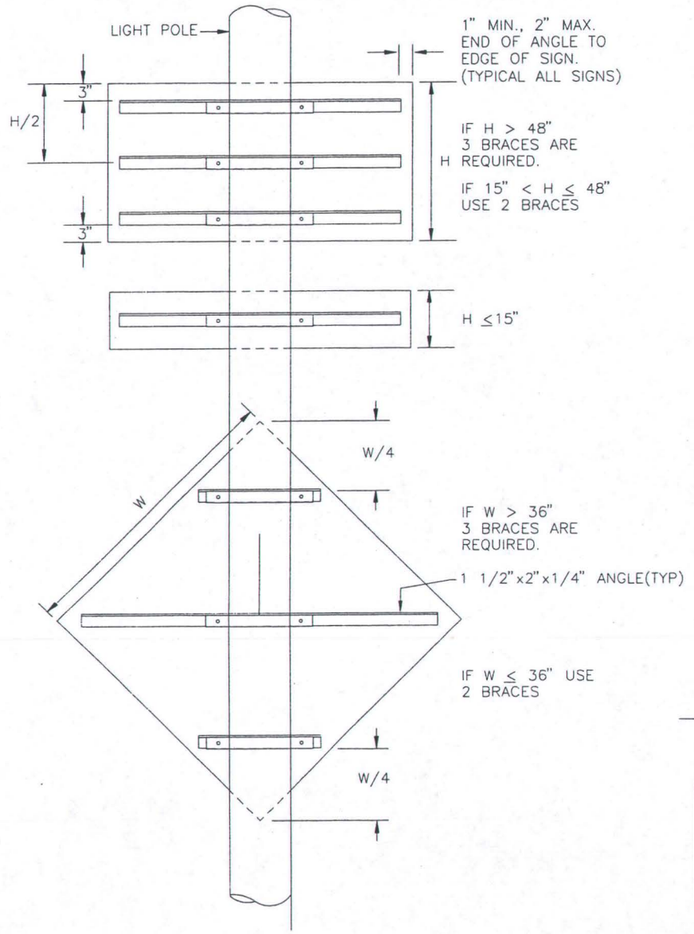
1. NUMBER 1 LOOP IS CLOSEST TO THE CROSSWALK
2. ADJACENT LOOPS ON THE SAME SENSOR UNIT CHANNEL SHALL BE WOUND IN OPPOSITE DIRECTIONS

LOOP SPLICE DETAIL



AIRPORT WAY / MARKET STREET DETECTOR LOOP DETAILS

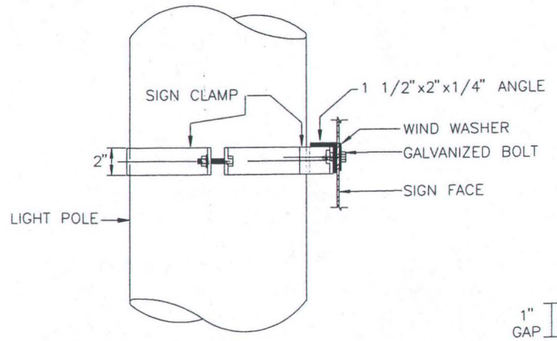
STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA		93	9	14



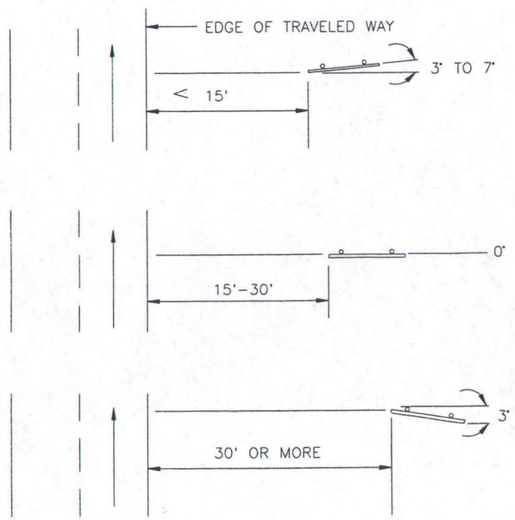
LIGHT POLE SIGNS DETAIL

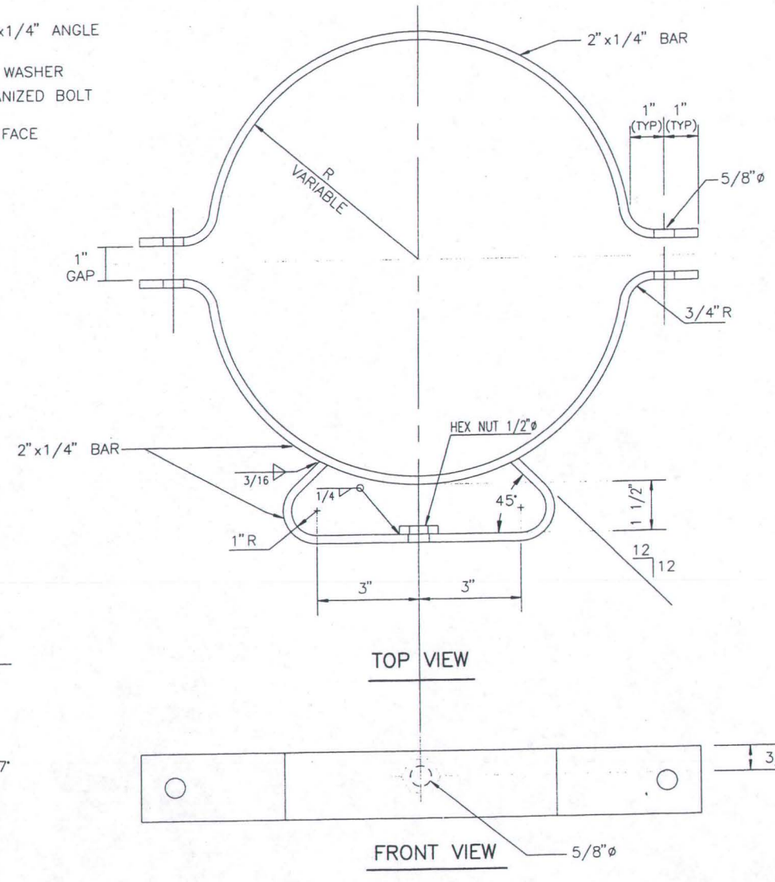
NOTES:

1. ATTACH SIGN TO ANGLE BAR WITH 3/16" RIVETS AT 4" STAGGERED SPACING.
2. ADJUST LOCATION OF BRACING SO THAT BOLTS AND WASHERS WILL MISS LEGEND.



SIGN INSTALLATION ANGLES





LIGHT POLE MOUNTED SIGN CLAMP

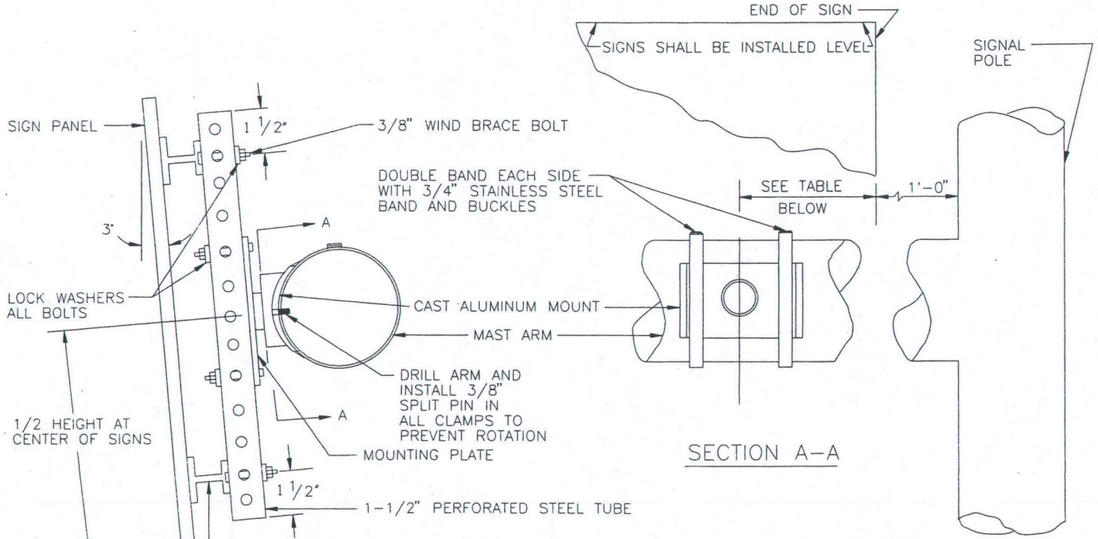
NOTES:

1. ALL STEEL A36.
2. HOT DIP GALVANIZED AFTER FABRICATION.
3. RADIUS OF THE SIGN CLAMP VARIES WITH THE RADIUS OF THE LIGHT POLE AT THE MOUNTING HEIGHT OF THE SIGN.
4. USE 1/2"x2" THREADED BOLTS, NUT AND WASHER TO FASTEN ENDS OF CLAMP.

AIRPORT WAY / MARKET STREET
SIGNING DETAILS 1/2

STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA		93	10	14

SIGNAL MAST ARM MOUNTED SIGNS (NOT FOR "R" SERIES SIGNS)



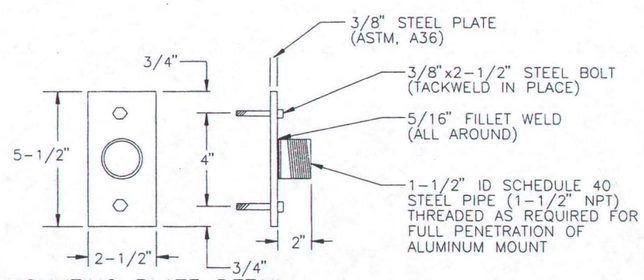
SECTION A–A

BANDING = STAINLESS STEEL 3/4"x0.030" TYPE 201 NO. C206

BUCKLES = STAINLESS STEEL 3/4" TYPE 201 NO. C256

ALUMINUM MOUNT (SIGNAL) = 1-1/2"NPT NO. D040

PIN = NO. D042

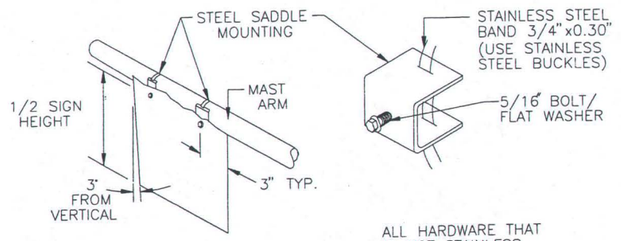


MOUNTING PLATE DETAIL

SIGN WIDTH(W)	NO. OF CLAMPS	CLAMP SPACING		
		OVERHANG	BETWEEN CLAMPS	OVERHANG
0–12 1/2'	2	0.2W	1 SPACE AT 0.6W	0.2W
13' TO 21'	3	0.15W	2 SPACES AT 0.35W	0.15W

1. CAST ALUMINUM MOUNTS AND BANDING MATERIALS SHALL BE "BAND-IT" OR APPROVED EQUAL.
2. MOUNTING PLATE SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123.
3. ALL WELDING SHALL MEET AMERICAN WELDING SOCIETY SPECS.
4. BOLTS, NUTS AND WASHERS SHALL MEET THE REQUIREMENTS OF STANDARD DRAWING S-20.00.

MAST ARM MOUNTING FOR "R" SERIES SIGNS



FIELD DRILL SIGNS FOR LEVEL INSTALLATION

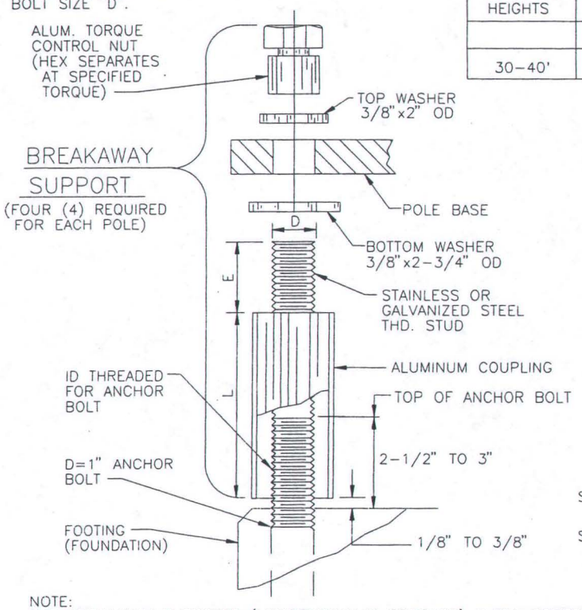
ALL HARDWARE THAT IS NOT STAINLESS STEEL SHALL BE GALVANIZED STEEL.

AIRPORT WAY / MARKET STREET
SIGNING DETAILS 2/2

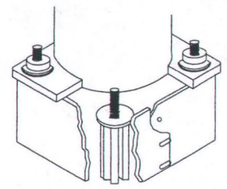
STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA		93	11	14

LIGHT POLE BREAKAWAY SUPPORT DETAILS

NOTE:
TORQUE NUT, FLAT WASHER I.D., STUD SIZE "D", AND TAPPED HOLE IN COUPLING ALL TO FIT ANCHOR BOLT SIZE "D".

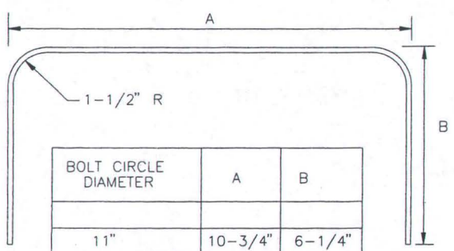


MOUNTING HEIGHTS	DIMENSION TABLE			
	D	THD	E	L
30-40'	1"	8NC	3-5/16" ± 1/16"	4-3/4"

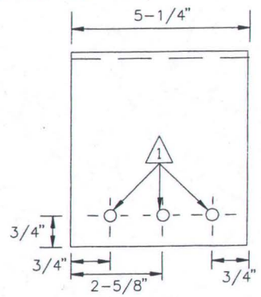


SKIRT

(ONE (1) REQUIRED FOR EACH POLE)



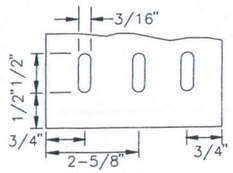
BOLT CIRCLE DIAMETER	A	B
11"	10-3/4"	6-1/4"
14-1/2"	13-1/4"	7-1/2"



1 = .157 DIA. (PUNCH FOR NO. 10 SCREW)

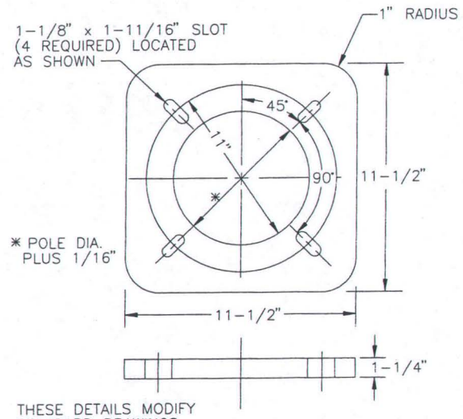
SKIRT MATERIAL: 3003 H-14 ALUMINUM 1/16" THICK (2 PIECES PER SKIRT)

SCREWS: #10 x 5/8" STAINLESS STEEL SELF-TAPPING SLOTTED SHEET METAL SCREWS OR POP RIVETS (6 REQUIRED PER POLE)



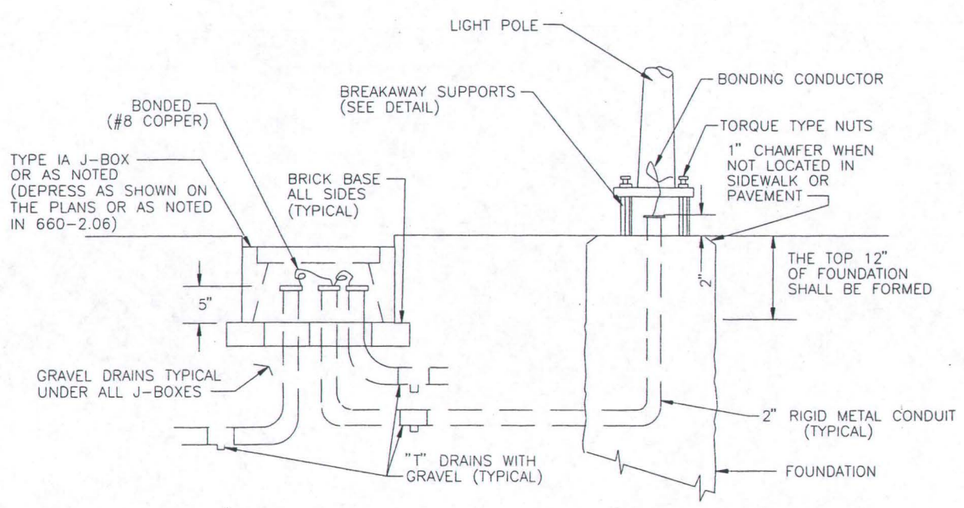
NOTE:
THE BREAKAWAY SUPPORTS (LONGITUDINALLY GROOVED) SHALL CONFORM TO AASHTO STANDARDS FOR BREAKAWAY SUPPORTS FOR LIGHT POLES AND SHALL BE APPROVED FOR FHWA PARTICIPATION, AND SHALL BE AS MANUFACTURED BY TRANSPO-SAFETY, INC., NEW ROCHELLE, NY 10801 OR PRECISION FORM, INC., LANCASTER, PA 17061.

30' LIGHT POLE BASE FLANGE DETAIL



THESE DETAILS MODIFY STANDARD DRAWINGS L-03.02 & L-30.02

LIGHTING FOUNDATION - J-BOX - CONDUIT DETAILS



AIRPORT WAY / MARKET STREET
LIGHTING SYSTEM DETAILS 1/2

SHEET 11

STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA		93	12	14

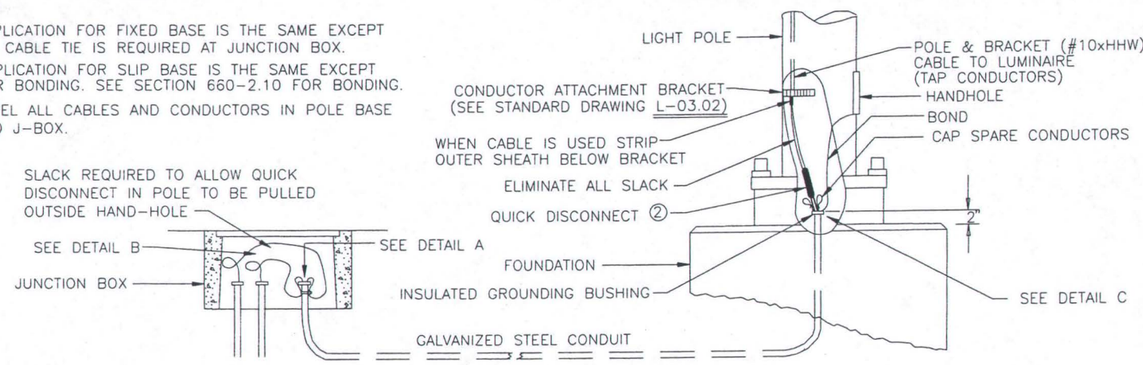
LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS

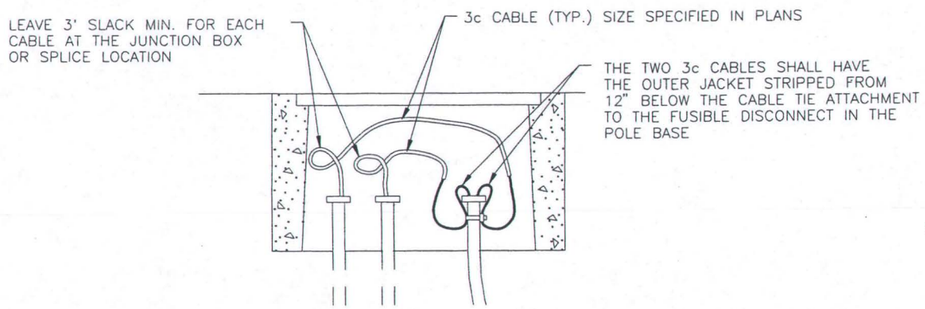
NOTES:

(1) APPLICATION FOR FIXED BASE IS THE SAME EXCEPT NO CABLE TIE IS REQUIRED AT JUNCTION BOX.

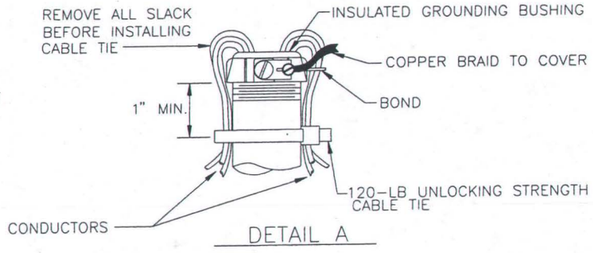
(2) APPLICATION FOR SLIP BASE IS THE SAME EXCEPT FOR BONDING. SEE SECTION 660-2.10 FOR BONDING.

(3) LABEL ALL CABLES AND CONDUCTORS IN POLE BASE AND J-BOX.



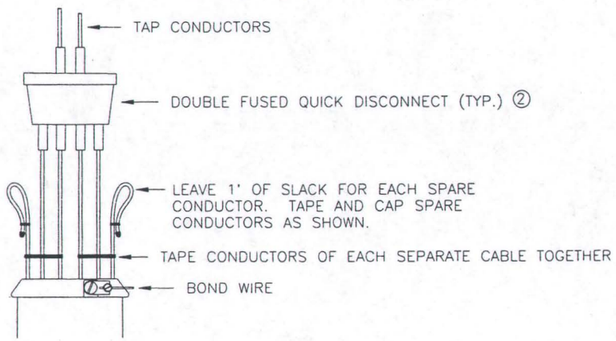


DETAIL B

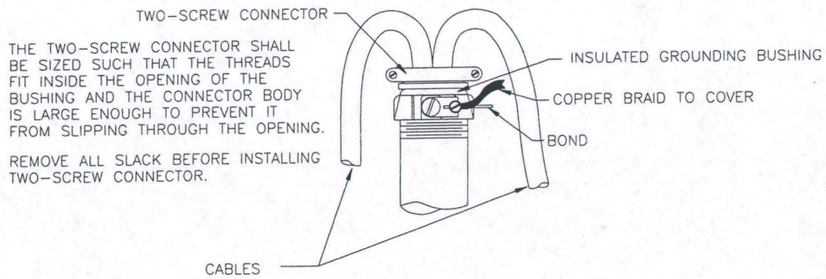


DETAIL A

② AN ADDITIONAL SINGLE FUSED QUICK DISCONNECT (NOT SHOWN) IS REQUIRED FOR THE PHOTOCELL WIRES ON POLES NEAREST THE LOAD CENTER

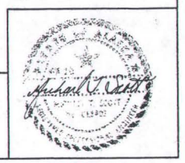


DETAIL C



OPTIONAL DETAIL A

AIRPORT WAY / MARKET STREET LIGHTING SYSTEM DETAILS 2/2

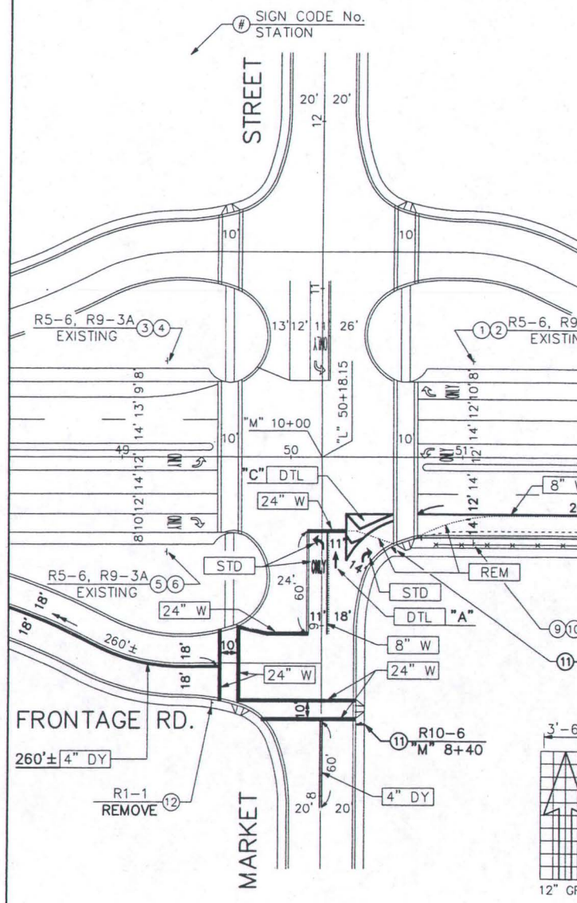


STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA		93	13	14

SYMBOLS & CODING

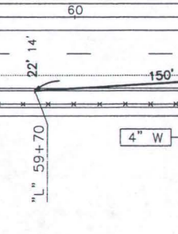
TRAFFIC MARKING

- 4" W — 4" SOLID WHITE STRIPE
- 8" W — 8" SOLID WHITE STRIPE
- 12" W — 12" SOLID WHITE STRIPE
- 24" W — 24" SOLID WHITE STRIPE
- 4" BW — 4" BROKEN WHITE STRIPE
- 4" DY — 4" SOLID DOUBLE YELLOW STRIPE
- REM — REMOVE EXISTING STRIPING
- STD — SEE STANDARD DRAWINGS T-22.01
- DTL — SEE DETAIL BELOW
- M — MATCH EXISTING STRIPING

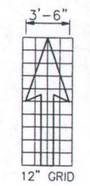


SIGNING SUMMARY

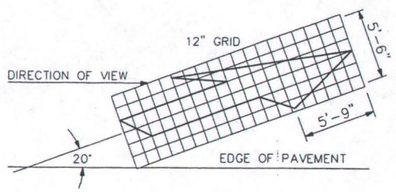
LOCATION NUMBER	STATION	LOCATION LT.	LOCATION RT.	CODE NO.	LEGEND	SIZE	THICKNESS (INCHES) UNFRAMED	THICKNESS (INCHES) FRAMED	AREA (SQ FT)	MOUNTING HEIGHT	DIRECTION	POSTS TYPE	POSTS SIZE	POSTS NO.	REMARKS
1	EXISTING			R5-6	NO BIKE SYMBOL	30X30	0.080		6.25		W				MOUNTED ABOVE SIGN 2
2	EXISTING			R9-3A	NO PED. SYMBOL	30X30	0.080		6.25	7'	W	PST	2-1/2	1	
3	EXISTING			R5-6	NO BIKE SYMBOL	30X30	0.080		6.25		E				MOUNTED ABOVE SIGN 4
4	EXISTING			R9-3A	NO PED. SYMBOL	30X30	0.080		6.25	7'	E	PST	2-1/2	1	
5	EXISTING			R5-6	NO BIKE SYMBOL	30X30	0.080		6.25		E				MOUNTED ABOVE SIGN 6
6	EXISTING			R9-3A	NO PED. SYMBOL	30X30	0.080		6.25	7'	E	PST	2-1/2	1	
7	EXISTING			R8-4	EMERGENCY PARKING ONLY	30X24	0.080		5.0	7'	W				MOUNTED ON EXIST. LT. POLE
8	EXISTING			R2-1	SPEED LIMIT 45	30X36	0.080		7.5	7'	W				MOUNTED ON EXIST. LT. POLE
9	EXISTING			R5-6	NO BIKE SYMBOL	30X30	0.080		6.25		W				MOUNTED ABOVE SIGN 2
10	EXISTING			R9-3A	NO PED. SYMBOL	30X30	0.080		6.25	7'	W	PST	2-1/2	1	
11	"L" 50+55		X	R2-1	YIELD	36X36X36	0.080		4.5	8'	SW	PST	2-1/2	1	NEW INSTALL
12	EXISTING			R1-1	STOP										REMOVE
13	"M" 8+40	X		R10-6	STOP HERE ON RED	24X36	0.080		6.0	8'	S	PST	2-1/2	1	NEW INSTALL



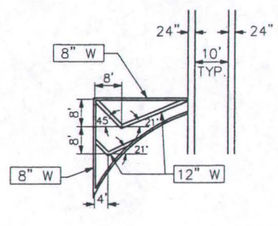
40' 20' 0 10' 20' 40'
1"=40' GRAPHIC SCALE



DETAIL "A"
NO SCALE



DETAIL "B"
NO SCALE



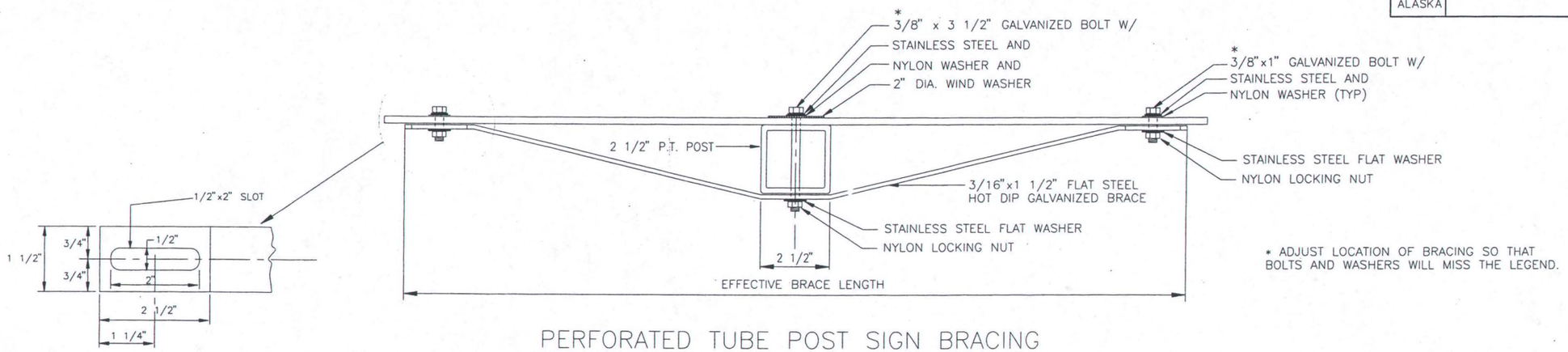
DETAIL "C"
NO SCALE

NOTES: STRIPING LAYOUT MARKINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO FINAL STRIPING.

AIRPORT WAY / MARKET STREET SIGNING AND STRIPING PLAN

SHEET 13

STATE	PROJECT DESIGNATION	YEAR	SHEET No.	TOTAL SHEETS
ALASKA		93	14	14



* ADJUST LOCATION OF BRACING SO THAT BOLTS AND WASHERS WILL MISS THE LEGEND.

PERFORATED TUBE POST SIGN BRACING

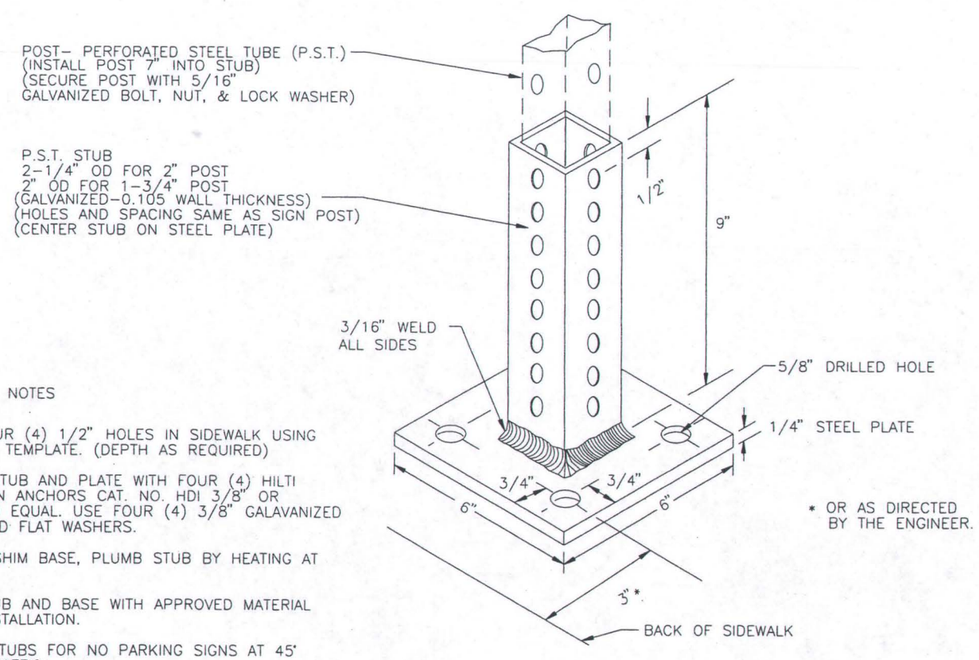
PLAN VIEW

DETAIL OF BRACE SLOT

ELEVATION VIEW

SIGN WIDTH(W)	EFFECTIVE BRACE LENGTH		
	WARNING	YIELD	OTHER
30"	36"	24"	24"
36"	42"	30"	30"
42"	48"	–	36"
48"	USE TWO POSTS	36"	42"

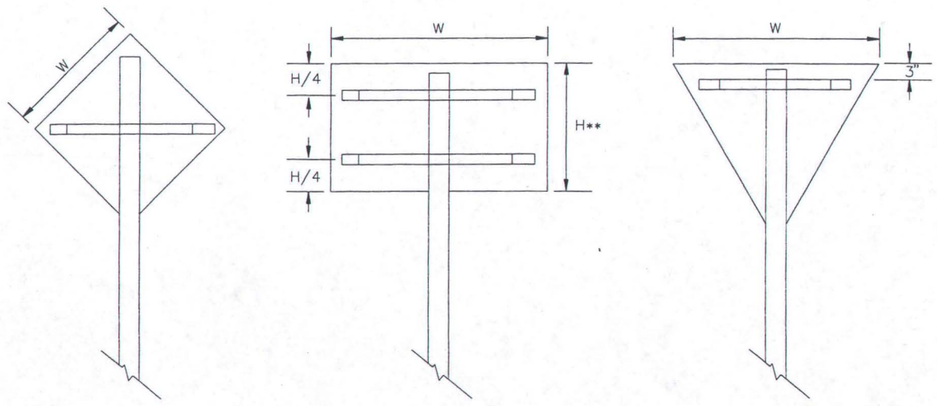
SIDEWALK MOUNTING STUB FOR SIGN POSTS



* OR AS DIRECTED BY THE ENGINEER.

INSTALLATION NOTES

1. DRILL FOUR (4) 1/2" HOLES IN SIDEWALK USING PLATE AS TEMPLATE. (DEPTH AS REQUIRED)
2. INSTALL STUB AND PLATE WITH FOUR (4) HILTI EXPANSION ANCHORS CAT. NO. HDI 3/8" OR APPROVED EQUAL. USE FOUR (4) 3/8" GALAVANIZED BOLTS AND FLAT WASHERS.
3. DO NOT SHIM BASE, PLUMB STUB BY HEATING AT PLATE.
4. PAINT STUB AND BASE WITH APPROVED MATERIAL AFTER INSTALLATION.
5. INSTALL STUBS FOR NO PARKING SIGNS AT 45° FACING TRAFFIC.



** USE ONE BRACE WHEN H ≤ 18"
USE TWO BRACES WHEN 18" < H ≤ 48"
USE THREE BRACES WHEN H > 48"

AIRPORT WAY / MARKET STREET
SIGN POST & MOUNTING DETAILS

SHEET 14