STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT

HSIP: ANCHORAGE AREA
SAFETY IMPROVEMENTS
PROJECT NO. 0001(344)/Z581970000
GRADING, DRAINAGE, PAVING, PATHWAYS, SIGNING, STRIPING, ILLUMINATION & SIGNALIZATION

PROJECT	SUMMAF	RY AND DES	IGNATION	
ROADWAY SECTION	WIDTH	LENGTH	A.A.D.T. 2014	DESIGN SPEED
OLD SEWARD HIGHWAY @ 34TH AVENUE	165 FT	610 FT	8,836	40 MPH
36TH AVENUE @ LATOUCHE STREET	82 FT	75 FT	13,081	40 MPH
INGRA STREET @ 4TH TO 3RD	441 FT	493 FT	2,367	40 MPH
3RD AVENUE @ F STREET	147 FT	152 FT	5,178	35 MPH
7TH AVENUE @ D STREET	151 FT	153 FT	4,275	30 MPH
7TH AVENUE @ H STREET	173 FT	148 FT	4,275	30 MPH
8TH AVENUE @ D STREET	156 FT	162 FT	1,207	30 MPH
8TH AVENUE @ E STREET	152 FT	175 FT	2,973	35 MPH
8TH AVENUE @ G STREET	156 FT	163 FT	1,207	30 MPH
8TH AVENUE @ H STREET	145 FT	138 FT	1,207	30 MPH
8TH AVENUE @ K STREET	144 FT	157 FT	1,247	30 MPH

0001(299)/Z566440000 0001(344)/Z581970000

AC1

ALASKA

CENTRAL REGION

ALASKA

M&O STATION: ANCHORAGE

PROJECT LOCATION

HSIP: LAKE OTIS PARKWAY
AT 68TH AVE CHANNELIZATION
PROJECT NO. 0001(299)/Z566440000
SIGNALIZATION & SIGNING

	<u> </u>
PROJECT SUMMARY AND DESIGNATION	
ROADWAY SECTION WIDTH LENGTH A.A.D.T. 2013 DESIGN SF	EED

126 FT

147 FT

60 FT

68TH AVENUE

22,040

4,280

40 MPH

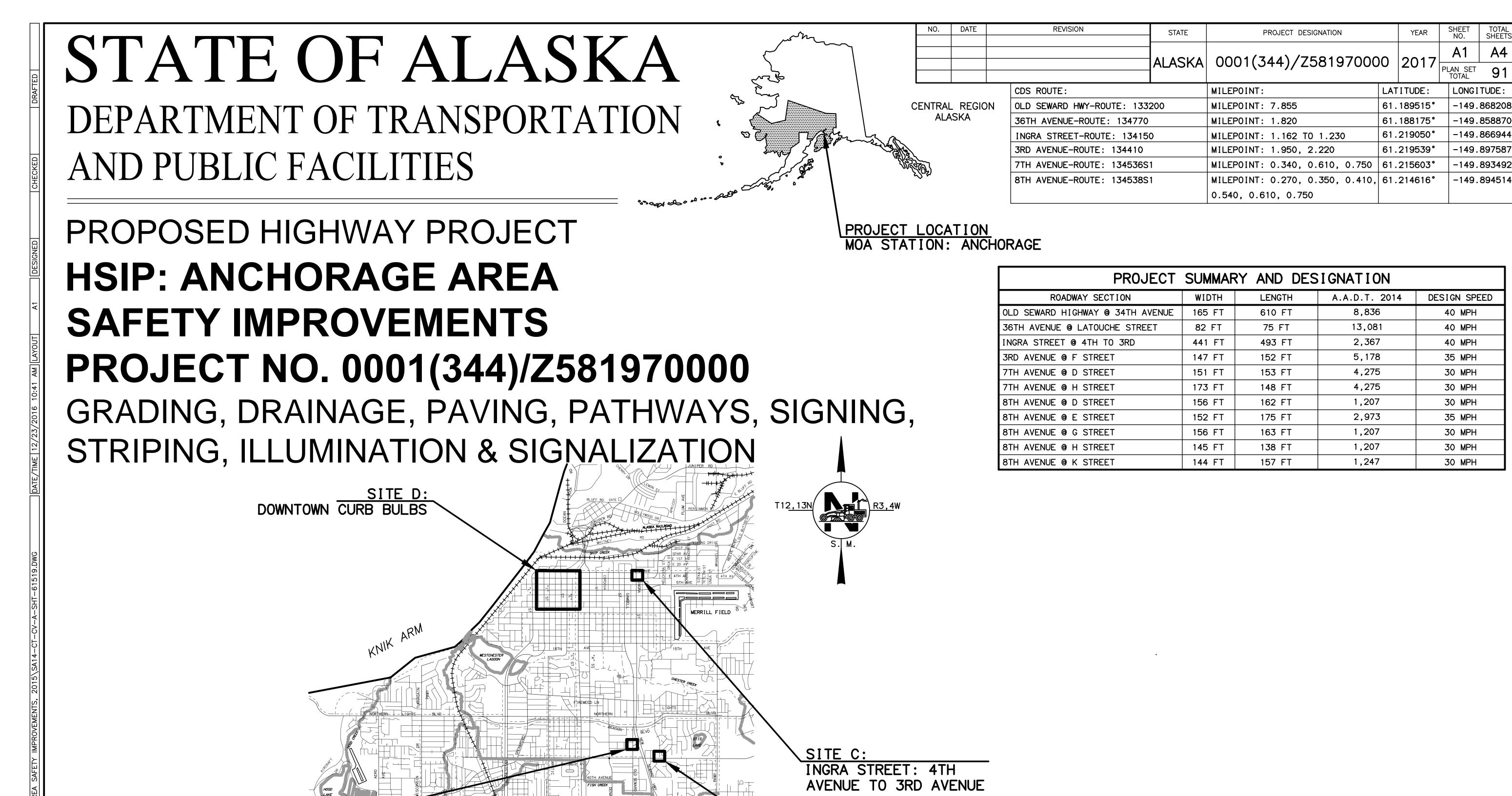
_	NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
				ALASKA	0001(299)/Z566440000 0001(344)/Z581970000	2017	CC1	CC1

ITEM NO.	ITEM DESCRIPTION	PAY	0001(344)/ Z581970000	0001(299)/ Z566440000	TOTAL
		UNIT	QUANTITY	QUANTITY	QUANTITY
202(2)	REMOVAL OF PAVEMENT	SY	14,934	19	14,953
202(3)	REMOVAL OF SIDEWALK	SY	2,285	51	2,336
202(4)	REMOVAL OF CULVERT PIPE	LF	1,031	_	1,031
202(6)	REMOVAL OF MANHOLE	EA	8	_	8
202(8)	REMOVAL OF INLET	EA	27	_	27
202(9)	REMOVAL OF CURB AND GUTTER	LF	4,593	80	4,673
202(10A)	REMOVE AND REINSTALL COLLECTION BOX	EA	1	_	1
202(13)	REMOVAL OF FENCE	LF	70	-	70
203(6A)	BORROW, TYPE A	TON	1,338	_	1,338
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	1,800	4	1,804
	,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	.,
401(1A)	HMA, TYPE II; CLASS A	TON	3,100	3	3,103
401(4)	ASPHALT BINDER, GRADE PG 52-28	TON	165	0.2	165.2
401(8A)	HMA PRICE ADJUSTMENT, TYPE II; CLASS A	CS	ALL REQUIRED	-	ALL REQUIRED
401(15)	ASPHALT MATERIAL PRICE ADJUSTMENT	CS	ALL REQUIRED	_	ALL REQUIRED
603(21–12)	12 INCH CORRUGATED POLYETHYLENE PIPE	LF	1,212	_	1,212
603(21–18)	18 INCH CORRUGATED POLYETHYLENE PIPE	LF	353	_	353
604(1A)	STORM DRAIN MANHOLE, TYPE I	EA	10	_	10
604(1B)	STORM DRAIN MANHOLE, TYPE II	EA	11	_	11
604(3)	RECONSTRUCT EXISTING MANHOLE	EA	3	_	3
604(4)	ADJUST EXISTING MANHOLE	EA	10	_	10
604(5)	INLET, TYPE MOA PRECAST CATCH BASIN	EA	36	_	36
604(13F)	ADJUST TELEPHONE MANHOLE FRAME AND LID	EA	1	-	1
607(3)	CHAIN LINK FENCE	LF	61	_	61
608(1a)	CONCRETE SIDEWALK, 4 INCHES THICK	SY	4,219	51	4,270
608(1b)	CONCRETE SIDEWALK, 6 INCHES THICK	SY	437	_	437
608(6)	CURB RAMP	EA	76	2	78
608(13C)	CONCRETE (SLABS), TYPE III, 6 INCHES THICK, COLORED	SY	169	_	169
609(2)	CURB AND GUTTER, TYPE I	LF	5,309	80	5,389
609(8)	STEEL FACED CURB	LF	1,385	-	1,385
615(1)	STANDARD SIGN	SF	565	50	615
615(4)	DELINEATOR, RIGID	EA	8	-	8
615(5)	DELINEATOR, FLEXIBLE	EA	3	-	3
618(4)	SEEDING	SY	589	_	589
620(1)	TOPSOIL	SY	589	_	589
627(10)	ADJUSTMENT OF VALVE BOX	EA	17	_	17
640(1)	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	0001(344)/ Z581970000	0001(299)/ Z566440000	TOTAL
		UNIT	QUANTITY	QUANTITY	QUANTITY
641(2)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	CS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
641(6)	WITHHOLDING	CS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
641(7)	SWPPP MANAGER	LS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
642(1)	CONSTRUCTION SURVEYING	LS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
642(6)	REPLACE EXISTING WITH PRIMARY MONUMENT	EA	10	_	10
642(7)	REPLACE EXISTING WITH SECONDARY MONUMENT	EA	3	_	3
642(10)	MONUMENT CASE	EA	13	_	13
643(2)	TRAFFIC MAINTENANCE	LS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
643(3)	PERMANENT CONSTRUCTION SIGNS	LS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
643(15A)	FLAGGING	CS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
643(23)	TRAFFIC PRICE ADJUSTMENT	CS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
643(25)	TRAFFIC CONTROL	CS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
644(1)	FIELD OFFICE	LS	_	ALL REQUIRED	ALL REQUIRED
644(10)	ENGINEERING COMMUNICATIONS	CS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
646(1)	CPM SCHEDULING	LS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
660(7A)	TEMPORARY SIGNAL SYSTEM COMPLETE (36TH AVENUE AND LATOUCHE STREET)	CS	ALL REQUIRED	_	ALL REQUIRED
660(13)	RELOCATE ELECTROLIER	EA	2	_	2
660(17A)	TRAFFIC SIGNAL SYSTEM MODIFICATIONS (LAKE OTIS PARKWAY AND 68TH AVENUE)	LS	_	ALL REQUIRED	ALL REQUIRED
660(17B)	TRAFFIC SIGNAL SYSTEM MODIFICATIONS (36TH AVENUE AND LATOUCHE STREET)	LS	ALL REQUIRED	_	ALL REQUIRED
660(17C)	TRAFFIC SIGNAL SYSTEM MODIFICATIONS (INGRA STREET AND 4TH AVENUE)	LS	ALL REQUIRED	_	ALL REQUIRED
660(17D)	TRAFFIC SIGNAL SYSTEM MODIFICATIONS (INGRA STREET AND 3RD AVENUE)	LS	ALL REQUIRED	_	ALL REQUIRED
660(18)	ADJUST JUNCTION BOX	EA	9	_	9
660(19A)	JUNCTION BOX, TYPE II	EA	1	_	1
660(20A)	SIGNAL SYSTEM TIMING AND ADJUSTMENTS (LAKE OTIS PARKWAY AND 68TH AVENUE)	CS	_	ALL REQUIRED	ALL REQUIRED
670(10D)	MMA PAVEMENT MARKINGS, LONGITUDINAL INLAID	LF	4,893	_	4,893
670(10E)	MMA PAVEMENT MARKINGS, SYMBOLS AND ARROW(S) INLAID	EA	12	_	12
670(10F)	MMA PAVEMENT MARKINGS, TRANSVERSE AND GORE INLAID	LF	5,654	_	5,654
		CS	ALL REQUIRED	ALL REQUIRED	

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

HSIP: LAKE OTIS PARKWAY AT 68TH AVE CHANNELIZATION



SITE A:

PLANS DEVELOPED BY: DOWL

SITE B:

36TH AVENUE @

LATOUCHE STREET

OLD SEWARD HIGHWAY @

34TH AVENUE

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES 4111 AVIATION AVENUE, ANCHORAGE, AK 99502 (907)269-0590

APPROVED:

REGIONAL PRE-CONSTRUCTION ENGINEER

CONCUR:

REGIONAL CONSTRUCTION ENGINEER DATE

DATE

	ALIGNMENT DESIGNATIONS								
SITE	STREET NAME	ABBREVIATION							
Α	OLD SEWARD HIGHWAY	"0SH"							
В	36TH AVENUE	"36A"							
С	INGRA STREET	"IS"							
С	3RD AVENUE (INGRA)	"3A"							
D	3RD AVENUE (DOWNTOWN)	"TA"							
D	7TH AVENUE	"SA"							

8TH AVENUE

D

"EA"

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	NO.	SHEETS
			ALASKA	0001(344)/Z581970000	2017	A2	A4

		INDEX
SITE	SHEET NO.	DESCRIPTION
	A1	TITLE SHEET
	A2	INDEX AND GENERAL NOTES
	A3	ABBREVIATIONS
ALL	A4	LEGEND SHEET
ALL	C1 T0 C2	ESTIMATE OF QUANTITIES
	D1 T0 D4	SUMMARY SHEETS
	E1 TO E7	DETAILS
	H1 T0 H9	TRAFFIC SHEETS
		OLD SEWARD HIGHWAY & E. 34TH AVE
	A: A1	SURVEY CONTROL
Α	A: B1	TYPICAL SECTIONS
	A: F1	GRADING PLAN
	A: H1 T0 H3	SIGNING, STRIPING, SIGNALIZATION AND ILLUMINATION
		E. 36TH AVE & LATOUCHE ST
D	B: A1	SURVEY CONTROL
В	B: F1	GRADING PLAN
	B: H1 T0 H4	SIGNING, STRIPING, SIGNALIZATION AND ILLUMINATION
	1	INGRA ST FROM E. 3RD TO E. 4TH AVE
	C: A1	SURVEY CONTROL
С	C: B1 T0 B2	TYPICAL SECTIONS
	C: F1 T0 F4	GRADING PLAN
	C: H1 TO H10	SIGNING, STRIPING, AND SIGNALIZATION
		DOWNTOWN CURB BULBS
	D: A1 T0 A7	SURVEY CONTROL
D	D: B1	TYPICAL SECTIONS
	D: F1 T0 F16	GRADING PLAN
	D: H1 T0 H12	SIGNING AND STRIPING

THE FOLLOWING REGIONAL DRAWINGS APPLY TO THIS PROJECT:

CR-T-01.02, CR-T-04.02

IN THE EVENT OF A CONFLICT, REGIONAL DRAWINGS SUPERSEDE STANDARD DRAWINGS.

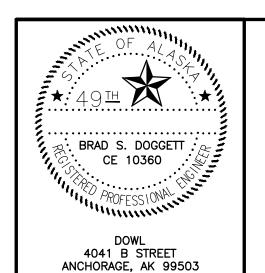
THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

C-03.10*, C-04.12 D-04.21, D-20.03, D-22.01, D-23.01, D-24.00, D-35.00, D-36.00 F-01.02 I-21.10, I-22.10 L-23.01, L-24.00, L-25.00, L-26.00, L-30.10 S-00.11*, S-05.01, S-22.00, S-23.00, S-30.03, S-31.01 T-05.10, T-20.03, T-21.03, T-22.03, T-23.00, T-52.20, T-54.00, T-55.00, T-56.00

* AS MODIFIED HEREIN.

SPECIFICATION:

CONSTRUCT THE IMPROVEMENTS COVERED BY THESE PLANS IN ACCORDANCE WITH THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES 2015 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE PROJECT SPECIAL PROVISIONS AS OF THE ADVERTISEMENT DATE OF THIS PROJECT.



(907) 562-2000

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

INDEX AND GENERAL NOTES

GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE ROW. NO EXCESS MATERIAL SHALL BE DISPOSED OF WITHIN THE ROW, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.
- 2. THE ROW LINES SHOWN WERE DRAWN ON THE PLANS USING INFORMATION FROM DOT&PF, PLATTED SUBDIVISIONS, AND SURVEYED MONUMENTS ON THE GROUND. THE ROW LINES WERE INSERTED USING A COMMON COORDINATE SYSTEM.
- 3. SAWCUT ALL JOINTS AND WHERE NEW ASPHALT WILL TIE INTO EXISTING ASPHALT. CONSTRUCT JOINTS AS LONGITUDINAL JOINTS. SAWCUTS ARE SUBSIDIARY TO 408 ITEMS.
- 4. PLACE TOPSOIL AND SEED IN ALL AREAS WITHIN THE ROW DISTURBED BY CONSTRUCTION, AND AS DIRECTED BY THE ENGINEER.
- 5. THE DESIGN SURVEY, WHICH ESTABLISHED ORIGINAL GROUND AND EXISTING IMPROVEMENTS, WAS PERFORMED PRIOR TO 2013. FIELD CONDITIONS MAY HAVE CHANGED THAT ARE NOT REPRESENTED IN THIS PLAN SET.
- 6. LOCATION OF ALL UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL OBTAIN ALL UTILITY FIELD LOCATES AND VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD.
- 7. CONSTRUCT CURB RAMPS TO AVOID IMPACTING SIGNAL POLE FOUNDATIONS. DO NOT COVER SIGNAL POLE FOUNDATION BOLTS AND BASE PLATES WITH TOPSOIL OR OTHER MATERIALS.
- 8. ADJUST ALL PAVEMENT PENETRATIONS TO FINAL GRADE PRIOR TO TOP LIFT OF PAVING.

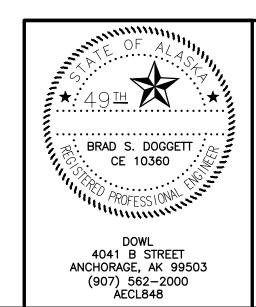
IF ANY PAVEMENT PENETRATION REQUIRES GRADE ADJUSTMENT AFTER FINAL LIFT PAVING, AS DETERMINED BY THE ENGINEER, SAW CUT A NEAT LINE ALONG THE PAVEMENT TO BE REMOVED. (USE AN INFRARED HEATER TO HEAT THE EXISTING PAVEMENT. EQUIPMENT AND MAXIMUM TEMPERATURE SHALL BE APPROVED BY THE ENGINEER.) REPLACE THE REMOVED ASPHALT WITH NEW HOT MIX ASPHALT AND THOROUGHLY COMPACT. SEAL JOINTS AT LEAST 12 INCHES LONG USING ASPHALT SYSTEMS GSB-88 OR APPROVED EQUAL, WHILE THE HOT MIX ASPHALT IS CLEAN, FREE OF MOISTURE AND PRIOR TO STRIPING.

NO PAYMENT WILL BE MADE FOR ADDITIONAL WORK CAUSED BY FAILURE TO ADJUST PAVEMENT PENETRATIONS TO FINAL GRADE.

- 9. ON STANDARD DRAWING C-03.10, REPLACE THE SAFETY FENCE AND TYPE II BARRICADE OR TUBULAR MARKINGS SHOWN IN THE TYPICAL SECTION WITH ADA COMPLIANT BARRICADES.
- 10. GROUND RODS FOR CHAIN LINK FENCE SHALL BE 5/8"
- 11. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL, INCLUDING ARROW BOARD DEVICE FOR LOCATE AND OVERHEAD INSPECTION WORK PERFORMED BY MOA SIGNAL ELECTRONICS. CONTRACTOR SHALL BE ON-SITE AT COMPLETION OF LOCATES TO REVIEW LAYOUT AND MAKE STATIONING MEASUREMENTS FOR CONDUIT LOCATIONS.
- 12. POSITIVE ALIGNMENT OFFSET VALUES ARE TO THE RIGHT OF THE REFERENCED ALIGNMENT. NEGATIVE ALIGNMENT OFFSET VALUES ARE TO THE LEFT OF THE REFERENCED ALIGNMENT.
- 13. WHEN TYING INTO A SIDEWALK WHERE THE EXISTING CROSS SLOPE IS GREATER THAN 2%, TIE THE NEW SIDEWALK IN AT THE EXISTING CROSS SLOPE AND WARP THE NEW SIDEWALK SUCH THAT THE NEW CROSS SLOPE IS LESS THAN 2% WITHIN A DISTANCE EQUAL TO THE EXISTING SIDEWALK WIDTH.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAI SHEET
			ALASKA	0001(344)/Z581970000	2017	А3	A4

O	ABBREVIATIONS							
ABOURD SOLT, AGREGATE BASEL ACCOUNTY A	@	AT	EXP	EXPOSED, EXPANSION	PP	POWER POLE		
AC ASSMULT CONDUCTE INSTITUTE FOR FINIS GRADE PIGE. ADM AS ADMINISTRATION STATEMENT INSTITUTE FOR FINIS GRADE PIGE. ADM AS ADMINISTRATION ATTOMAL STANDARDS INSTITUTE FOR FINIS GRADE PIGE. ADM AS ADMINISTRATION ATTOMAL STANDARDS INSTITUTE FOR FINIS GRADE PIGE. APPEARANCE AND ATTOMAL STANDARDS INSTITUTE FOR FINIS	&	AND	EXST, EX	EXISTING	PRV	PRESSURE REDUCING VALVE		
AC ASSMULT CONDUCTE INSTITUTE FOR FINIS GRADE PIGE. ADM AS ADMINISTRATION STATEMENT INSTITUTE FOR FINIS GRADE PIGE. ADM AS ADMINISTRATION ATTOMAL STANDARDS INSTITUTE FOR FINIS GRADE PIGE. ADM AS ADMINISTRATION ATTOMAL STANDARDS INSTITUTE FOR FINIS GRADE PIGE. APPEARANCE AND ATTOMAL STANDARDS INSTITUTE FOR FINIS	AB	ANCHOR BOLT, AGGREGATE BASE	EVC	END VERTICAL CURVE	PSF	POUNDS PER SQUARE FOOT		
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APPROX APPROXECT F. FLOW LINE (ELEV) POWN PACKEDN'N								
APPRO								
AWAP AS CRETICAL AS POSSIBLE PINSH FINSH FIN								
AMENIOAN WIRE GAUGE								
BFACIN BECIN STEEL, FACED CURB FT0								
BY BUTTERFLY WAVE G CAS			<u> </u>					
BBP								
BOT BOTTOM OF PIPE								
BOTT BOTTOM			GA	GAGE	RMC	RIGID METAL CONDUIT		
BRG BEARING			GALV	GALVANIZED	ROW	RIGHT-OF-WAY		
BYC BEGIN MERTICAL CURVE GSP GALVANIZED STELL PIPE SCH SCHEDULE	вот	ВОТТОМ	GB	GRADE BREAK	RT	RIGHT		
COR CARE AUD GUTTER	BRG	BEARING	GPM	GALLONS PER MINUTE	S	SOUTH, SLOPE		
COR CARE AUD GUTTER	BVC	BEGIN VERTICAL CURVE	GSP	GALVANIZED STEEL PIPE	SCH	SCHEDULE		
CAG CURB AND GUTTER	CC		GV	GATE VALVE	SD			
CB			HORIZ					
CRITCH BASIN MANHOLE								
C1								
C.J. CONSTRUCTION JOINT JB. J-BOX JUNCTION BOX SS SANITARY SEMER C.L. CENTER LINE JT JOINT SST STRALESS STEEL COMP CORNECTE LB POLNIOS ST STREET, STEEL PIPE CONIC CONCRETE LB/CU FT POLNIOS STA STATON CONIC CONCRETE LB/CU FT POLNIOS STA STATON CONIC CONCRETE LB/CU FT LINEAR FEET STD STANDARD CONIC CONTROLOUS, CONTINUATION LF LINEAR FEET STD STANDARD COPP CORPORATION MAS MANITARY SEMER STD STANDARD COPP CORPORATION MAS MANITARY SEMER STD STANDARD COP CORPORATION MAS MANITARY SEMER STD STANDARD COP CORPORATION MAS MANITARY SEMER STD STANDARD COPER MAS MANITARY SEMER STD STANDARD STD STA								
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	ENGR	ENGINEER	PCC	PORTLAND CEMENT CONCRETE	WT			
EW EACH WAY PL PLACE, PLATE, PROPERTY LINE	EP	EDGE OF PAVEMENT	PI	POINT OF INTERSECTION	WWF	WELDED WIRE, FABRIC		
	EW	EACH WAY	PL	PLACE, PLATE, PROPERTY LINE				

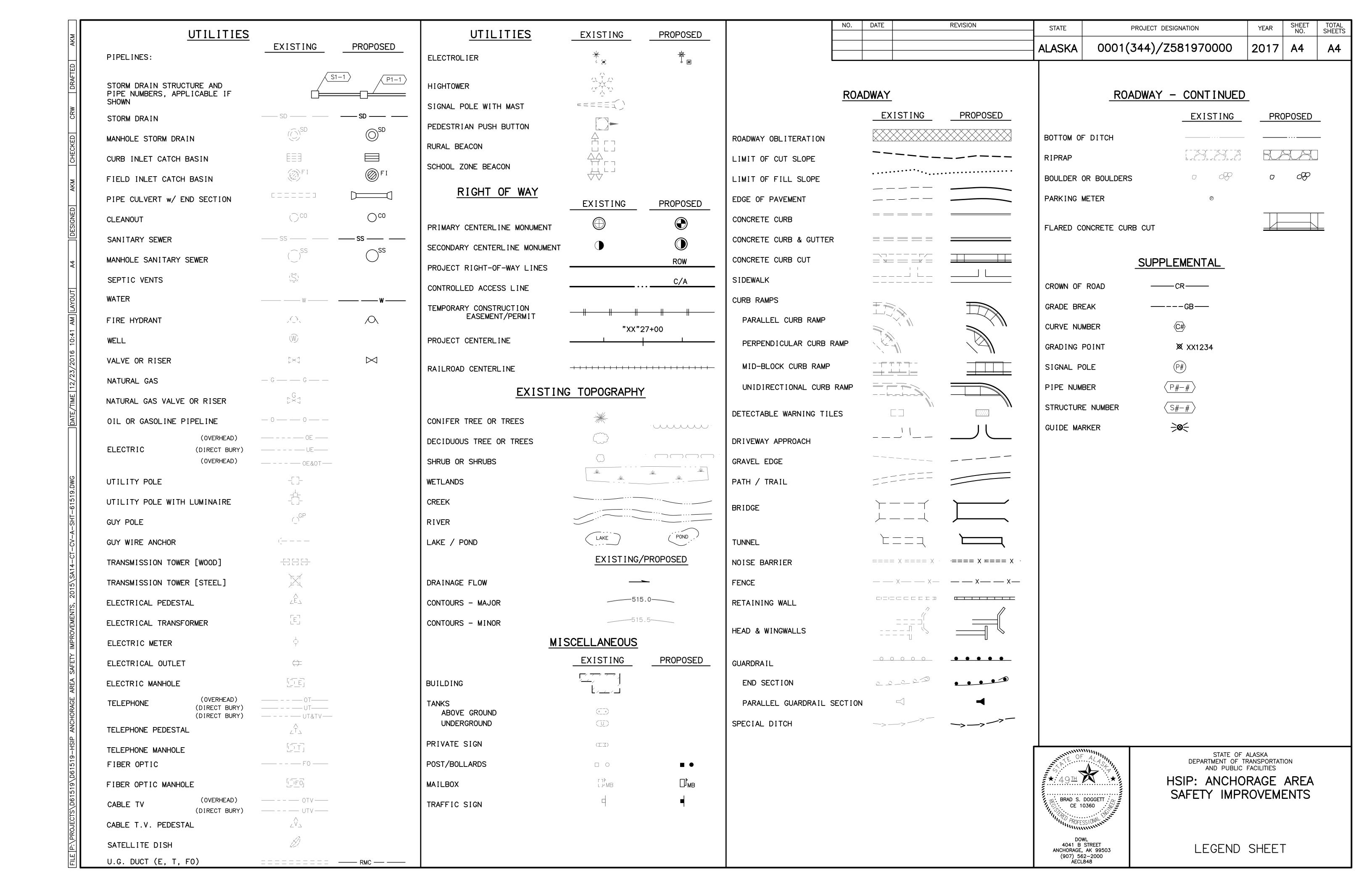


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA
SAFETY IMPROVEMENTS

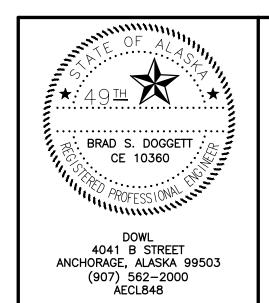
ABBREVIATIONS

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NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	<u>C1</u>	C2
				2001(011)/ 20013/0000	2017		

		ESTIMA	ATE OF QUANTITIES				
			SITE A	SITE B	SITE C	SITE D	
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	OLD SEWARD HIGHWAY & 34TH AVENUE	36TH AVENUE & LATOUCH STREET	INGRA STREET: 4TH AVENUE TO 3RD AVENUE	DOWNTOWN CURB BULBS	TOTAL QUANTITY
202(2)	REMOVAL OF PAVEMENT	SY	1,681	39	3,173	10,041	14,934
202(3)	REMOVAL OF SIDEWALK	SY	37	40	113	2,095	2,285
202(4)	REMOVAL OF CULVERT PIPE	LF	_	_	100	930	1,031
202(6)	REMOVAL OF MANHOLE	EA	_	_	2	6	8
202(8)	REMOVAL OF INLET	EA	_	_	4	23	27
202(9)	REMOVAL OF CURB AND GUTTER	LF	169	54	1,216	3,154	4,593
202(10A)	REMOVE AND REINSTALL COLLECTION BOX	EA	_	_	_	1	1
202(13)	REMOVAL OF FENCE	LF	_	_	70	_	70
203(6A)	BORROW, TYPE A	TON	312	_	1,026	-	1,338
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	360	6	465	969	1,800
401(1A)	HMA, TYPE II; CLASS A	TON	382	10	683	2,025	3,100
401(4)	ASPHALT BINDER, GRADE PG 52-28	TON	20	1	36	108	165
401(8A)	HMA PRICE ADJUSTMENT, TYPE II; CLASS A	CS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
401(15)	ASPHALT MATERIAL PRICE ADJUSTMENT	CS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
603(21–12)	12 INCH CORRUGATED POLYETHYLENE PIPE	LF	_	_	108	1,104	1,212
603(21–18)	18 INCH CORRUGATED POLYETHYLENE PIPE	LF	_	_	_	353	353
604(1A)	STORM DRAIN MANHOLE, TYPE I	EA		_	2	8	10
604(1B)	STORM DRAIN MANHOLE, TYPE II	EA	_	_	1	10	11
604(3)	RECONSTRUCT EXISTING MANHOLE	EA	_	_	2	1	3
604(4)	ADJUST EXISTING MANHOLE	EA	1	_	2	7	10
604(5)	INLET, TYPE MOA PRECAST CATCH BASIN	EA	-	_	4	32	36
604(13F)	ADJUST TELEPHONE MANHOLE FRAME AND LID	EA	-	_	_	1	1
607(3)	CHAIN LINK FENCE	LF	_	_	61	_	61
608(1a)	CONCRETE SIDEWALK, 4 INCHES THICK	SY	101	36	465	3,617	4,219
608(1b)	CONCRETE SIDEWALK, 6 INCHES THICK	SY	_	_	77	360	437
608(6)	CURB RAMP	EA	6	1	11	58	76
608(13C)	CONCRETE (SLABS), TYPE III, 6 INCHES THICK, COLORED	SY	143	_	26	_	169
609(2)	CURB AND GUTTER, TYPE 1	LF	537	54	1,244	3,474	5,309
609(8)	STEEL FACED CURB	LF	_	_	24	1,361	1,385
615(1)	STANDARD SIGN	SF	105	29	168	263	565
615(4)	DELINEATOR, RIGID	EA	8	_	_	_	8
615(5)	DELINEATOR, FLEXIBLE	EA	_	_	3	_	3
618(4)	SEEDING	SY	38	19	506	26	589



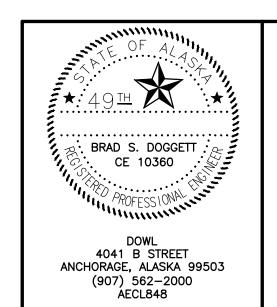
HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

ESTIMATE OF QUANTITIES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	C2	C2

			SITE A	SITE B	SITE C	SITE D	
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	OLD SEWARD HIGHWAY & 34TH AVENUE	36TH AVENUE & LATOUCH STREET	INGRA STREET: 4TH AVENUE TO 3RD AVENUE	DOWNTOWN CURB BULBS	TOTAL QUANTITY
620(1)	TOPSOIL	SY	38	19	506	26	589
627(10)	ADJUSTMENT OF VALVE BOX	EA	1	_	4	12	17
640(1)	MOBILIZATION AND DEMOBILIZATION	LS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRE
641(1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRE
641(2)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	CS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRE
641(6)	WITHHOLDING	CS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRE
641(7)	SWPPP MANAGER	LS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRE
642(1)	CONSTRUCTION SURVEYING	LS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRE
642(6)	REPLACE EXISTING WITH PRIMARY MONUMENT	EA	-	_	2	8	10
642(7)	REPLACE EXISTING WITH SECONDARY MONUMENT	EA	_	_	1	2	3
642(10)	MONUMENT CASE	EA	-	_	3	10	13
643(2)	TRAFFIC MAINTENANCE	LS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRE
643(3)	PERMANENT CONSTRUCTION SIGNS	LS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRE
643(15A)	FLAGGING	CS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRE
643(23)	TRAFFIC PRICE ADJUSTMENT	CS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRE
643(25)	TRAFFIC CONTROL	CS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRE
644(10)	ENGINEERING COMMUNICATIONS	CS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRE
646(1)	CPM SCHEDULING	LS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRE
660(7A)	TEMPORARY SIGNAL SYSTEM COMPLETE (36TH AVENUE AND LATOUCHE STREET)	CS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRE
660(13)	RELOCATE ELECTROLIER	EA	2	_	_	_	2
660(17B)	TRAFFIC SIGNAL SYSTEM MODIFICATIONS (36TH AVENUE AND LATOUCHE STREET)	LS	_	ALL REQUIRED	_	_	ALL REQUIRE
660(17C)	TRAFFIC SIGNAL SYSTEM MODIFICATIONS (INGRA STREET AND 4TH AVENUE)	LS	_	_	ALL REQUIRED	_	ALL REQUIRE
660(17D)	TRAFFIC SIGNAL SYSTEM MODIFICATIONS (INGRA STREET AND 3RD AVENUE)	LS	_	_	ALL REQUIRED	_	ALL REQUIRE
660(18)	ADJUST JUNCTION BOX	EA	1	_	_	8	9
660(19A)	JUNCTION BOX, TYPE II	EA	_	_	_	1	1
670(10D)	MMA PAVEMENT MARKINGS, LONGITUDINAL INLAID	LF	1,347	_	958	2,588	4,893
670(10E)	MMA PAVEMENT MARKINGS, SYMBOLS AND ARROW(S) INLAID	EA	4	_	4	4	12
670(10F)	MMA PAVEMENT MARKINGS, TRANSVERSE AND GORE INLAID	LF	873	_	1,512	3,269	5,654
682(1)	VAC-TRUCK POTHOLE	CS	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED	ALL REQUIRE

	TABLE OF ESTIMATING FACTORS						
ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTOR					
203(6A)	BORROW, TYPE A	144 LB/CF					
301(1)	AGGREGATE BASE COURSE, GRADING D-1	144 LB/CF					
401(1A)	HMA, TYPE II; CLASS A	151 LB/CF					
401(4)	ASPHALT BINDER, GRADE PG 52-28	5.3% OF 401(1A)					



HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

ESTIMATE OF QUANTITIES

202(2)		REMOVAI	OF PAVEM	ENT	
SHEET	FROM STATION	TO STATION	OFFSET	AREA (SY)	REMARKS
A: F1	"OSH" 3+70.08	"OSH" 6+46.51	RT/LT	1681	
B: F1	"36A" 4+50.54	"36A" 4+88.41	LT	39	
C: F1	"IS" 3+54.72	"IS" 5+50.00	RT/LT	1347	
C: F2	"IS" 5+50.00	"IS" 7+10.00	RT/LT	732	
C: F3	"IS" 7+10.00	"IS" 8+24.51	RT/LT	1094	
D: F1	"TA" 15+84.15	"TA" 18+04.98	RT/LT	1250	
D: F3	"SA" 52+72.85	"SA" 54+67.08	RT/LT	1375	
D: F5	"SA" 39+95.32	"SA" 41+68.78	RT/LT	1236	
D: F7	"EA" 84+38.85	"EA" 86+03.55	RT/LT	1347	
D: F9	"EA" 80+56.39	"EA" 82+37.97	RT/LT	1306	
D: F11	"EA" 73+51.39	"EA" 75+03.64	RT/LT	1028	
D: F13	"EA" 69+96.52	"EA" 71+62.14	RT/LT	1191	
D: F15	"EA" 62+72.94	"EA" 64+45.94	RT/LT	1307	
			TOTAL (SY)	14,934	

202(3)	REMOVAL OF SIDEWALK								
SHEET	NW QUADRANT AREA (SY)	NE QUADRANT AREA (SY)	SW QUADRANT AREA (SY)	SE QUADRANT AREA (SY)	QUANTITY (SY)	REMARKS			
A: F1	24	_	10	3	37				
B: F1	_	40	_	_	40				
C: F1	_	_	3	34	37				
C: F2	10	_	_	_	10				
C: F3	_	_	66	_	66				
D: F1	116	83	53	72	324				
D: F3	67	110	57	54	288				
D: F5	59	_	57	55	171				
D: F7	75	117	82	23	297				
D: F9	89	37	59	51	236				
D: F11	104	_	64	61	229				
D: F13	58	119	68	48	293				
D: F15	68	69	62	58	257				
				TOTAL (SY)	2,285				

202(4)		REMO	OVAL OF CUL	VERT PIPE	-	
SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	LENGTH (LF)	REMARKS
C: F1	"IS" 3+93.15	25.25 LT	"IS" 4+07.67	5.72 RT	34	
C: F1	"IS" 3+89.89	25.11 RT	"IS" 4+07.67	5.72 RT	26	
C: F3	"IS" 7+74.62	22.21 RT	"IS" 8+10.70	5.16 RT	40	
D: F1	"TA" 16+88.73	22.40 RT	"TA" 17+21.27	2.23 RT	38	
D: F1	"TA" 17+48.95	22.46 RT	"TA" 17+21.27	2.23 RT	34	
D: F3	"SA" 53+25.65	22.28 LT	"SA" 53+67.35	7.73 RT	51	
D: F3	"SA" 53+82.34	32.94 LT	"SA" 53+67.35	7.73 RT	43	
D: F5	"SA" 40+66.86	31.59 LT	"SA" 40+97.61	5.36 RT	48	
D: F5	"SA" 41+24.24	22.69 RT	"SA" 40+97.61	5.36 RT	32	
D: F7	"EA" 84+89.69	22.59 RT	"EA" 85+26.81	5.09 RT	41	
D: F7	"EA" 85+50.38	20.40 LT	"EA" 85+26.87	5.09 RT	35	
D: F7	"EA" 85+43.32	30.69 RT	"EA" 85+26.87	5.09 RT	30	
D: F7	"EA" 85+56.17	26.23 LT	"EA" 85+50.38	20.40 LT	8	
D: F9	"EA" 81+38.13	35.39 RT	"EA" 81+54.61	8.16 RT	32	
D: F9	"EA" 81+93.01	20.37 LT	"EA" 81+54.61	8.16 RT	48	
D: F9	"EA" 81+83.05	36.76 RT	"EA" 81+54.61	8.16 RT	40	
D: F11	"EA" 74+18.62	39.23 RT	"EA" 74+44.39	8.24 RT	40	
D: F11	"EA" 74+63.22	39.20 RT	"EA" 74+44.39	8.24 RT	36	
D: F11	"EA" 74+18.39	36.5 LT	"EA" 74+44.39	8.24 RT	52	
D: F13	"EA" 70+58.00	31.58 RT	"EA" 70+86.24	8.44 RT	37	
D: F13	"EA" 70+40.45	20.35 LT	"EA" 70+86.24	8.44 RT	54	
D: F13	"EA" 71+13.91	20.36 LT	"EA" 70+86.24	8.44 RT	40	
D: F13	"EA" 71+03.19	31.62 RT	"EA" 70+86.24	8.44 RT	29	
D: F15	"EA" 63+28.82	22.68 RT	"EA" 63+68.28	3.95 RT	44	
D: F15	"EA" 63+82.68	32.01 RT	"EA" 63+68.28	3.95 RT	32	
D: F15	"EA" 63+82.70	32.01 LT	"EA" 63+68.28	3.95 RT	39	
D: F15	"EA" 63+27.53	20.20 LT	"EA" 63+68.28	3.95 RT	47	
			•	TOTAL (LF)	1,031	

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
						140.	SHEETS
			ALASKA	0001(344)/Z581970000	2017	D1	D4
				0001(011)/ 20010/ 0000	20 7		

202(6)	RE	REMOVAL OF MANHOLE				
SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS		
C: F1	"IS" 4+07.67	5.72 RT	1	REPLACE EXISTING		
C: F4	"IS" 7+80.84	20.89 LT	1	REPLACE EXISTING		
D: F1	"TA" 17+21.27	2.23 RT	1	REPLACE EXISTING		
D: F3	"SA" 53+67.35	7.73 RT	1	REPLACE EXISTING		
D: F7	"EA" 85+26.87	5.09 RT	1	REPLACE EXISTING		
D: F9	"EA" 81+54.61	8.15 RT	1	REPLACE EXISTING		
D: F11	"EA" 74+44.39	8.24 RT	1	REPLACE EXISTING		
D: F13	"EA" 70+86.24	8.44 RT	1	REPLACE EXISTING		
		TOTAL (EA)	8			

202(8)		REMOVA	L OF INLE	Γ
SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
C: F1	"IS" 3+94.16	24.41 LT	1	
C: F1	"IS" 3+90.50	24.43 RT	1	
C: F3	"IS" 7+80.64	20.89 LT	1	REPLACE WITH TYPE
C: F3	"IS" 7+74.62	22.21 RT	1	
D: F1	"TA" 16+88.73	22.40 RT	1	
D: F1	"TA" 17+48.95	22.46 RT	1	
D: F3	"SA" 53+25.65	22.28 LT	1	
D: F3	"SA" 53+82.34	32.94 LT	1	
D: F5	"SA" 41+24.24	22.69 RT	1	
D: F5	"SA" 40+66.86	31.59 LT	1	
D: F7	"EA" 85+43.32	30.69 RT	1	
D: F7	"EA" 85+50.38	20.40 LT	1	
D: F7	"EA" 84+89.69	22.59 RT	1	
D: F9	"EA" 81+38.13	35.39 RT	1	
D: F9	"EA" 81+83.05	36.76 RT	1	
D: F9	"EA" 81+93.01	20.37 LT	1	
D: F11	"EA" 74+18.62	39.23 RT	1	
D: F11	"EA" 74+18.39	36.50 LT	1	
D: F11	"EA" 74+63.22	39.20 RT	1	
D: F13	"EA" 70+58.00	31.58 RT	1	
D: F13	"EA" 71+03.19	31.62 RT	1	
D: F13	"EA" 70+40.45	20.35 LT	1	
D: F13	"EA" 71+13.91	20.36 LT	1	
D: F15	"EA" 63+28.82	22.68 RT	1	
D: F15	"EA" 63+82.68	32.01 RT	1	
D: F15	"EA" 63+27.53	20.20 LT	1	
D: F15	"EA" 63+82.70	32.01 LT	1	
		TOTAL (EA)	27	

202(9)	R	EMOVAL OF (CURB AN	D GUTTER)
SHEET	FROM STATION	TO STATION	OFFSET	LENGTH (LF)	REMARKS
A: F1	"OSH" 4+44.46	"OSH" 5+88.23	RT/LT	169	
B: F1	"36A" 4+50.54	"36A" 4+84.95	LT	54	
C: F1-C: F3	"IS" 3+75.60	"IS" 4+37.98	RT/LT	1216	
D: F1	"TA" 15+84.12	"TA" 17+90.70	RT/LT	418	
D: F3	"SA" 52+72.85	"SA" 54+67.08	RT/LT	439	
D: F5	"SA" 39+95.29	"SA" 41+57.48	RT/LT	313	
D: F7	"EA" 84+38.85	"EA" 85+95.56	RT/LT	484	
D: F9	"EA" 80+56.39	"EA" 82+35.42	RT/LT	415	
D: F11	"EA" 73+51.39	"EA" 75+03.64	RT/LT	305	
D: F13	"EA" 70+06.04	"EA" 71+50.11	RT/LT	360	
D: F15	"EA" 62+87.12	"EA" 64+32.00	RT/LT	420	
,		•	TOTAL (LF)	4,593	

202(10A)	REMOVE AND REINSTALL COLLECTION BOX					
SHEET	STATION	QUANTITY (EA)	REMARKS			
D: F11	"EA" 73+95.22	24.10 RT	1			
		TOTAL (EA)	1			

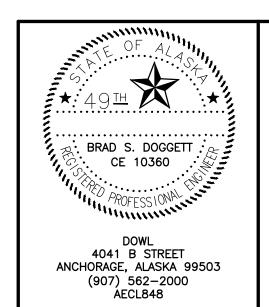
202(13)		REMOVAL OF FENCE							
SHEET	FROM STATION	TO STATION	OFFSET	LENGTH (LF)	REMARKS				
C: F1	"IS" 3+90.28	"IS" 4+28.43	RT	70					
			TOTAL (LF)	70					

	604(13F)	ADJUST TELEPH	HONE MANH	OLE FRAM	E AND LID
	SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
	D: F1	"TA" 17+06.47	3.97 RT	1	
•			TOTAL (EA)	1	

607(3)		CHAIN LINK FENCE										
SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	LENGTH (LF)	REMARKS						
C: F1	"IS" 3+90.28	31.50 RT	"IS" 4+28.43	78.82 RT	61							
				TOTAL (LF)	61							

FENCE NOTES:

 CONTRACTOR TO MATCH EXISTING FENCE TYPE (CHAIN LINK WITH BARBED WIRE).



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

SUMMARY SHEET

608(1a)		CONCRET	E SIDEWALK	, 4 INCHE	S THICK	
SHEET	NW QUADRANT AREA (SY)	NE QUADRANT AREA (SY)	SW QUADRANT AREA (SY)	SE QUADRANT AREA (SY)	QUANTITY (SY)	REMARKS
A: F1	21	_	47	33	101	
B: F1	36	_	_	_	36	
C: F1	48	48	44	38	178	
C: F2	55	82	0	0	137	
C: F3	_	_	98	52	150	
D: F1	147	139	80	108	474	
D: F3	133	141	113	108	495	
D: F5	74	_	135	109	318	
D: F7	138	139	120	129	526	
D: F9	116	127	121	116	480	
D: F11	171	_	122	113	406	
D: F13	112	125	110	97	444	
D: F15	126	127	96	125	474	
				TOTAL (SY)	4,219	

608(1b)		CONCRETE SIDEWALK, 6 INCHES THICK										
SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	AREA (SY)	REMARKS						
C: F2	"IS 5+77.64	14.00 LT	"IS" 6+11.53	14.00 LT	19	DRIVE CURB CUT						
C: F2	"IS" 6+24.47	14.00 LT	"IS" 6+51.59	14.00 LT	15	ALLEY CURB CUT						
C: F3	"3A" 18+96.83	24.57 LT	"3A" 18+49.55	27.23 LT	26	SOUTH DRIVE CURB CUT						
C: F3	"IS" 7+97.57	3.46 LT	"IS" 17+22.54	11.45 LT	17	MEDIAN CROSSING						
D: F1	"TA" 16+10.18	14.28 LT	"TA" 16+61.68	14.15 LT	97							
D: F3	"SA" 54+08.93	15.00 LT	"SA" 54+42.98	14.92 LT	56							
D: F7	"EA" 85+35.17	42.54 LT	"EA" 85+36.25	76.15 LT	67							
D: F7	"EA" 85+06.25	44.12 RT	"EA" 85+06.34	77.12 RT	53							
D: F9	"EA" 80+80.37	12.98 LT	"EA" 81+19.23	12.87 LT	56							
D: F15	"EA" 63+45.61	44.17 RT	"EA" 63+45.62	65.78 RT	31							
				TOTAL (SY)	437							

NIO.	TC.
<u> </u>	<u> </u>

1. CONSTRUCT THE MEDIAN CROSSING WITH COLORED CONCRETE AS NOTED ON SHEET A:F1.

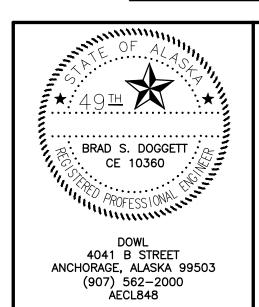
608(6)			CURB RAM	IP	
SHEET	STATION	OFFSET	QUANTITY (EA)	TYPE	REMARKS
A: F1	"OSH" 5+53.09	44.83 LT	1	PARALLEL	
A: F1	"OSH" 4+88.94	23.28 RT	1	PERPENDICULAR	
A: F1	"OSH" 4+88.31	39.88 LT	1	PERPENDICULAR	
A: F1	"OSH" 5+04.41	52.96 LT	1	PERPENDICULAR	
A: F1	"OSH" 4+88.29	1.02 LT	1	PERPENDICULAR	SEE NOTE
A: F1	"OSH" 4+88.28	9.02 LT	1	PERPENDICULAR	SEE NOTE
B: F1	"36A" 4+75.83	45.20 LT	1	PARALLEL	
C: F1	"IS" 4+97.04	13.25 RT	1	PERPENDICULAR	
C: F1	"IS" 4+82.04	31.08 LT	1	PARALLEL	
C: F1	"IS" 4+97.43	13.90 LT	1	PARALLEL	
C: F1	"IS" 4+18.52	41.72 RT	1	PERPENDICULAR	
C: F1	"IS" 4+21.09	15.68 LT	1	PARALLEL	
C: F1	"IS" 4+37.56	31.95 LT	1	PARALLEL	
C: F3	"IS" 7+72.67	38.87 LT	1	PARALLEL	
C: F4	"IS" 8+02.59	2.22 LT	1	PERPENDICULAR	
C: F4	"IS" 7+98.34	15.75 LT	1	PERPENDICULAR	
C: F4	"IS" 8+03.04	13.25 RT	1	PERPENDICULAR	
C: F4	"IS" 8+11.26	22.49 RT	1	PERPENDICULAR	
D: F1	"TA" 17+47.33	15.53 LT	1	PERPENDICULAR	
D: F1	"TA" 16+84.92	16.07 LT	1	PERPENDICULAR	
D: F1	"TA" 17+44.72	15.09 RT	1	PERPENDICULAR	
D: F1	"TA" 17+28.79	28.31 RT	1	PERPENDICULAR	
D: F1	"TA" 16+98.70	29.79 RT	1	PERPENDICULAR	
D: F1	"TA" 16+84.92	15.13 RT	1	PERPENDICULAR	
D: F3	"SA" 53+76.91	30.15 LT	1	PERPENDICULAR	
D: F3	"SA" 53+90.25	17.07 LT	1	PERPENDICULAR	
D: F3	"SA" 53+30.45	16.95 LT	1	PERPENDICULAR	
D: F3	"SA" 53+43.47	30.05 LT	1	PERPENDICULAR	
D: F3	"SA" 53+90.24	16.07 RT	1	PERPENDICULAR	
D: F3	"SA" 53+76.30	30.61 RT	1	PERPENDICULAR	
D: F3	"SA" 53+44.10	30.98 RT	1	PERPENDICULAR	
D: F3	"SA" 53+29.13	16.76 RT	1	PERPENDICULAR	
D: F5	"SA" 40+57.01	15.20 LT	1	PARALLEL	
D: F5	"SA" 40+74.12	32.39 LT	1	PARALLEL	
D: F5	"SA" 41+20.36	16.44 RT	1	PERPENDICULAR	
D: F5	"SA" 41+06.44	29.97 RT	1	PERPENDICULAR	
D: F5	"SA" 40+72.61	30.27 RT	1	PERPENDICULAR	
D: F5	"SA" 40+59.35	17.02 RT	1	PERPENDICULAR	
D: F7	"EA" 85+37.09	28.94 LT	1	PERPENDICULAR	

608(6)			CURB RAM	1P	
SHEET	STATION	OFFSET	QUANTITY (EA)	TYPE	REMARKS
D: F7	"EA" 85+50.04	15.47 LT	1	PERPENDICULAR	
D: F7	"EA" 84+87.87	13.73 LT	1	PERPENDICULAR	
D: F7	"EA" 85+03.99	28.17 LT	1	PERPENDICULAR	
D: F7	"EA" 85+53.15	17.04 RT	1	PERPENDICULAR	
D: F7	"EA" 85+37.75	30.67 RT	1	PERPENDICULAR	
D: F7	"EA" 85+04.11	31.66 RT	1	PERPENDICULAR	6' WIDE
D: F7	"EA" 84+88.25	17.25 RT	1	PERPENDICULAR	
D: F9	"EA" 81+74.79	27.38 LT	1	PERPENDICULAR	
D: F9	"EA" 81+89.13	14.01 LT	1	PERPENDICULAR	
D: F9	"EA" 81+28.40	12.27 LT	1	PERPENDICULAR	
D: F9	"EA" 81+45.71	27.21 LT	1	PERPENDICULAR	
D: F9	"EA" 81+92.01	17.34 RT	1	PERPENDICULAR	
D: F9	"EA" 81+76.43	32.91 RT	1	PERPENDICULAR	
D: F9	"EA" 81+45.92	30.43 RT	1	PERPENDICULAR	
D: F9	"EA" 81+31.39	17.00 RT	1	PERPENDICULAR	
D: F11	"EA" 74+08.55	14.87 LT	1	PERPENDICULAR	
D: F11	"EA" 74+23.50	29.76 LT	1	PERPENDICULAR	
D: F11	"EA" 74+70.33	15.83 RT	1	PERPENDICULAR	
D: F11	"EA" 74+54.91	33.15 RT	1	PERPENDICULAR	
D: F11	"EA" 74+26.55	30.86 RT	1	PERPENDICULAR	
D: F11	"EA" 74+11.91	16.35 RT	1	PERPENDICULAR	
D: F13	"EA" 70+97.42	29.07 LT	1	PERPENDICULAR	
D: F13	"EA" 71+11.62	14.84 LT	1	PERPENDICULAR	
D: F13	"EA" 70+50.26	14.27 LT	1	PERPENDICULAR	
D: F13	"EA" 70+64.07	28.21 LT	1	PERPENDICULAR	
D: F13	"EA" 71+13.07	17.98 RT	1	PERPENDICULAR	
D: F13	"EA" 70+96.67	33.39 RT	1	PERPENDICULAR	
D: F13	"EA" 70+64.18	33.20 RT	1	PERPENDICULAR	
D: F13	"EA" 70+49.84	18.49 RT	1	PERPENDICULAR	
D: F15	"EA" 63+75.64	30.25 LT	1	PERPENDICULAR	
D: F15	"EA" 63+90.70	14.19 LT	1	PERPENDICULAR	
D: F15	"EA" 63+28.61	14.07 LT	1	PERPENDICULAR	
D: F15	"EA" 63+44.25	30.41 LT	1	PERPENDICULAR	
D: F15	"EA" 63+92.31	17.78 RT	1	PERPENDICULAR	
D: F15	"EA" 63+75.78	34.31 RT	1	PERPENDICULAR	
D: F15	"EA" 63+44.51	34.57 RT	1	PERPENDICULAR	
D: F15	"EA" 63+27.73	17.82 RT	1	PERPENDICULAR	
		TOTAL (EA)	76		

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	İ
						140.	STILLIS	ł
			ALASKA	0001(344)/Z581970000	2017	D2	D4	ı
				0001(011)/ 20010/0000	2017			ı

608(13C)	CONC	COLORE)			
SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	AREA (SY)	REMARKS
A: F1	"OSH" 3+87.53	5.39 LT	"OSH" 4+80.78	5.98 LT	65	
A: F1	"OSH" 4+85.78	6.01 LT	"OSH" 4+98.28	6.09 LT	14	
A: F1	"OSH" 5+61.29	4.13 LT	"OSH" 6+23.42	1.62 RT	64	
C: F3	"3A" 18+15.14	9.48 LT	"3A" 17+23.43	12.73 LT	26	
				TOTAL (SY)	169	

SHEET	FROM STATION	OFFSET	TO STATION	OFFSET	LENGTH (LF)	REMARKS
A: F1	"OSH" 4+65.54	36.17 LT	"OSH" 5+10.94	66.70 LT	60	
A: F1	"OSH" 5+47.82	64.87 LT	"OSH" 5+95.07	25.39 LT	72	
A: F1	"OSH" 3+83.78	5.37 LT	"OSH" 4+84.53	5.83 LT	210	
A: F1	"OSH" 5+59.06	6.52 LT	"OSH" 6+26.63	0.93 LT	145	
A: F1	"OSH" 4+44.46	23.56 RT	"OSH" 5+01.52	25.11 RT	50	
B: F1	"36A" 4+50.54	37.01 LT	"36A" 4+84.95	68.82 LT	54	
C: F1	"IS" 3+75.60	23.86 RT	"IS" 4+36.25	84.71 RT	96	
C: F1	"IS" 3+59.23	22.59 LT	"IS" 4+37.98	44.05 LT	84	
C: F1	"IS" 4+81.79	28.52 RT	"IS" 5+50.00	13.25 RT	79	
C: F1	"IS" 4+81.82	44.42 LT	"IS" 5+50.00	13.25 LT	91	
C: F2	"IS" 5+50.00	13.25 RT	"IS" 7+05.24	30.71 RT	165	
C: F2	"IS" 5+50.00	13.25 LT	"IS" 7+10.00	13.25 LT	159	
C: F3	"IS" 7+10.00	13.25 LT	"IS" 7+96.19	196.27 LT	232	
C: F3	"IS" 7+36.88	39.75 RT	"IS" 8+11.25	37.37 RT	121	
C: F3	"3A" 18+15.14	8.73 LT	"3A" 17+21.73	10.91 LT	217	
D: F1	"TA" 15+84.58	21.60 LT	"TA" 16+95.49	82.07 LT	176	
D: F1	"TA" 16+45.91	21.88 RT	"TA" 3+20.75	14.19 LT	72	
D: F1	"TA" 17+24.62	44.39 RT	"TA" 17+90.24	21.84 RT	85	
D: F1	"TA" 17+34.99	74.70 LT	"TA" 17+90.09	21.85 LT	112	
D: F3	"SA" 52+72.85	21.64 LT	"SA" 53+38.14	79.15 LT	129	
D: F3	"SA" 53+81.79	77.81 LT	"SA" 54+66.74	21.65 LT	147	
D: F3	"SA" 52+80.68	21.80 RT	"SA" 53+38.23	67.15 RT	103	
D: F3	"SA" 53+81.81	72.02 RT	"SA" 54+28.16	21.72 RT	110	
D: F5	"SA" 39+95.62	21.75 RT	"SA" 40+67.76	70.62 RT	127	
D: F5	"SA" 40+14.09	21.68 LT	"SA" 40+67.65	77.99 LT	117	
D: F5	"SA" 41+11.30	70.42 RT	"SA" 41+57.20	21.78 RT	101	
D: F7	"EA" 84+39.04	21.91 RT	"EA" 84+98.94	103.23 RT	146	
D: F7	"EA" 84+49.38	19.94 LT	"EA" 84+98.93	86.35 LT	122	
D: F7	"EA" 85+42.43	93.58 LT	"EA" 85+95.35	19.69 LT	133	
D: F7	"EA" 85+42.58	84.18 RT	"EA" 85+92.66	21.76 RT	117	
D: F9	"EA" 80+56.26	19.60 LT	"EA" 81+38.85	69.14 LT	141	
D: F9	"EA" 81+03.87	21.93 RT	"EA" 81+38.86	83.71 RT	105	
D: F9	"EA" 81+82.46		"EA" 82+35.02		108	
D: F9	"EA" 81+82.30		"EA" 82+27.61	21.90 RT	111	
D: F11	"EA" 73+51.50		"EA" 74+10.46	68.78 LT	122	
D: F11	"EA" 73+61.79		"EA" 74+19.20	99.18 RT	121	
D: F11	"EA" 74+62.40		"EA" 75+03.46	21.87 RT	104	
D: F13	"EA" 70+11.03		"EA" 70+58.65	66.22 LT	101	
D: F13	"EA" 71+02.19		"EA" 71+49.74	19.61 LT	102	
D: F13	"EA" 69+96.52		"EA" 70+58.69		106	
D: F13	"EA" 71+02.39		"EA" 71+47.48		99	
D: F15	"EA" 62+87.33		"EA" 63+38.34		108	
D: F15	"EA" 63+81.92	70.28 LT		19.70 LT	107	
D: F15	"EA" 62+87.26	21.83 RT		89.51 RT	123	
D: F15	"EA" 63+60.32	94.16 RT	"EA" 64+31.79	21.83 RT	119	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

SUMMARY SHEET

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DRAFTED

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	D3	D4

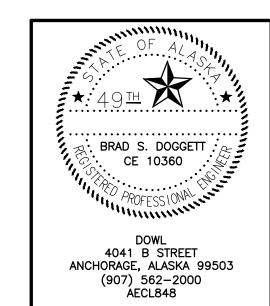
609(8)	STEEL FACED CURB					
SHEET	BEGIN STATION OFFSET LENGTH (LF)					
C: F1	"IS" 3+88.64	23.75 LT	24			
D: F1	"TA" 15+84.58	21.60 LT	22			
D: F1	"TA" 16+45.91	21.88 RT	25			
D: F1	"TA" 16+95.49	82.07 LT	20			
D: F1	"TA" 17+29.09	57.00 LT	19			
D: F1	"TA" 17+65.01	13.54 LT	27			
D: F1	"TA" 17+66.74	13.96 RT	25			
D: F3	"SA" 52+83.55	21.61 LT	25			
D: F3	"SA" 52+88.39	21.83 RT	26			
D: F3	"SA" 53+38.14	79.15 LT	27			
D: F3	"SA" 53+38.23	67.15 RT	23			
D: F3	"SA" 53+73.88	54.13 LT	25			
D: F3	"SA" 53+73.96	48.53 RT	25			
D: F3	"SA" 54+02.90	13.23 RT	27			
D: F3	"SA" 54+44.10	14.17 LT	24			
D: F5	"SA" 39+95.62	21.75 RT	21			
D: F5	"SA" 40+14.09	21.68 LT	23			
D: F5	"SA" 40+67.65	77.99 LT	26			
D: F5	"SA" 40+67.76	70.62 RT	22			
D: F5	"SA" 41+03.24	50.18 RT	22			
D: F5	"SA" 41+33.35	13.62 RT	26			
D: F7	"EA" 84+39.07	21.90 RT	21			
D: F7	"EA" 84+49.43	19.92 LT	25			
D: F7	"EA" 84+98.91	78.64 LT	26			
D: F7	"EA" 84+98.95	103.20 RT	26			
D: F7	"EA" 85+34.46	73.69 LT	22			
D: F7	"EA" 85+34.54	60.28 RT	26			
D: F7	"EA" 85+72.98	15.21 RT	21			
D: F7	"EA" 85+73.21	12.29 LT	24			
D: F9	"EA" 80+56.44	19.54 LT	23			
D: F9		20.43 RT	18			
	"EA" 81+04.27	+				
D: F9	"EA" 81+38.89	61.25 LT	25			
D: F9	"EA" 81+38.89	76.01 RT	25			
D: F9	"EA" 81+74.03	40.86 LT	27			
D: F9	"EA" 81+74.25	58.71 RT	26			
D: F9	"EA" 82+10.84	15.17 RT	18			
D: F9	"EA" 82+12.71	12.33 LT	24			
D: F11	"EA" 73+51.50	19.58 LT	25			
D: F11	"EA" 73+61.79	21.85 RT	20			
D: F11	"EA" 74+19.15	68.95 LT	21			
D: F11	"EA" 74+19.19	70.22 RT	26			
D: F11	"EA" 74+54.77	45.18 RT	25			
D: F11	"EA" 74+80.81	14.29 RT	24			
D: F13	"EA" 70+06.08	21.92 RT	19			
D: F13	"EA" 70+11.03	19.67 LT	23			
D: F13	"EA" 70+58.65	66.22 LT	22			
D: F13	"EA" 70+58.69	61.11 RT	22			
D: F13	"EA" 70+94.23	47.07 LT	22			
D: F13	"EA" 70+94.36	51.20 RT	22			
D: F13	"EA" 71+29.63	11.60 LT	22			
D: F13	"EA" 71+31.21	15.91 RT	18			
D: F15	"EA" 62+87.26	21.83 RT	19			
D: F15	"EA" 62+87.33	19.64 LT	26			
D: F15	"EA" 63+38.34	70.30 LT	26			
D: F15	"EA" 63+38.50	89.51 RT	25			
D: F15	"EA" 63+73.79	45.84 LT	26			
D: F15	"EA" 63+73.87	62.20 RT	26			
D: F15	"EA" 64+07.36	11.62 LT	26			
D: F15	"EA" 64+14.08	15.89 RT	19			
2	_/\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TOTAL (LF)	1,385			

SUBSIDIARY		SALVAC	YE SICN	
TO 615(1)		SALVAG	E SIGN	
SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
A: H1	"OSH" 5+03.59	58.33 LT	3	
A: H1	"OSH" 5+71.58	24.30 LT	3	
A: H1	"OSH" 4+94.18	26.42 RT	3	
B: H1	"36A" 4+69.43	51.56 LT	4	
C: H4	"IS" 6+40	25.00 RT	1	SEE NOTE 1
C: H5	"IS" 7+08	25.00 RT	1	SEE NOTE 1
C: H5	"IS" 7+23	25.00 RT	1	SEE NOTE 1
C: H5	"IS" 7+07.62	15.77 LT	1	
C: H5	"IS" 7+84.74	26.15 RT	1	
C: H5	"IS" 8+04.50	3.97 LT	1 1	
D: H1	"TA" 16+93.10	32.90 LT	3	
D: H1	"TA" 16+91.80	50.91 LT	1	
D: H1	"TA" 16+72.73	22.75 RT	1	
D: H1	"TA" 17+90.08	23.34 LT	1 7	
D: H1	"TA" 17+30.89	31.80 RT	3	
D: H1 D: H2	"TA" 17+78.49	24.01 RT	2	
D: H2	"SA" 53+36.39 "SA" 53+36.48	29.98 LT 55.64 LT	1	
D: H2	"SA" 53+92.53	23.33 LT	5	
D:H2	"SA" 54+45.12	23.19 LT	1	
D:H2	"SA" 52+91.38	24.13 RT	1	
D:H2	"SA" 53+27.24	23.27 RT	3	
D: H2	"SA" 53+83.98	48.09 RT	1	
D: H2	"SA" 53+82.77	31.01 RT	3	
D: H3	"SA" 40+38.59	23.50 LT	2	
D: H3	"SA" 40+65.91	46.29 LT	2	
D: H3	"SA" 40+65.64	56.08 LT	1	
D: H3	"SA" 40+65.69	74.58 LT	1	
D: H3	"SA" 40+35.84	23.84 RT	3	
D: H3	"SA" 40+60.80	23.85 RT	2	
D: H3	"SA" 41+13.33	58.92 RT	1	
D: H3	"SA" 41+13.29	34.36 RT	2	
D: H3	"SA" 41+28.82	23.61 RT	1	
D: H3	"SA" 41+39.59	23.84 RT	1	
D: H4	"EA" 84+97.45	30.23 LT	2	
D: H4	"EA" 84+96.79	46.07 LT	1	
D: H4	"EA" 85+44.21	82.55 LT	1	
D: H4	"EA" 85+56.50	21.92 LT	4	
D: H4	"EA" 85+72.24	22.99 LT	1 1	
D: H4 D: H4	"EA" 84+57.42	23.45 RT 23.40 RT	4	
D: H4	"EA" 84+87.12 "EA" 84+97.86	101.41 RT	1	
D: H4	"EA" 85+44.40	61.53 RT	2	
D: H4	"EA" 85+44.19	34.15 RT	2	
D: H4	"EA" 85+68.52	23.28 RT	1	
D: H5	"EA" 80+61.95	21.51 LT	1	
D: H5	"EA" 81+95.83	22.35 LT	4	
D: H5	"EA" 81+07.32	23.49 RT	1	
D: H5	"EA" 81+27.73	24.59 RT	4	
D: H5	"EA" 81+37.20	75.94 RT	1	
D: H5	"EA" 81+84.37	39.86 RT	1	
D: H5	"EA" 82+21.23	23.85 RT	1	
D: H6	"EA" 73+72.83	21.73 LT	1	
D: H6	"EA" 74+17.04	47.27 LT	1	
D: H6	"EA" 73+62.81	24.27 RT	5	
D: H6	"EA" 74+08.62	23.78 RT	3	
D: H6	"EA" 74+17.74	68.14 RT	1	
D: H7	"EA" 70+11.08	21.79 LT	1	
D: H7	"EA" 70+56.67	30.07 LT	2	
D: H7	"EA" 70+56.99	47.20 LT	1	
D: H7	"EA" 71+17.18	21.44 LT	1	
D: H7	"EA" 71+29.65	22.06 LT	2	

SUBSIDIARY TO 615(1)	SALVAGE SIGN					
SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS		
D: H7	"EA" 71+46.88	20.24 LT	1			
D: H7	"EA" 71+28.82	23.87 RT	1			
D: H7	"EA" 70+47.90	23.60 RT	2			
D: H7	"EA" 71+94.26	53.24 RT	1			
D: H7	"EA" 71+04.14	31.26 RT	2			
D: H9	"EA" 63+10.84	21.72 LT	1			
D: H8	"EA" 63+36.54	34.87 LT	2			
D: H8	"EA" 63+36.54	48.86 LT	1			
D: H8	"EA" 63+83.78	69.69 LT	1			
D: H8	"EA" 63+90.80	22.07 LT	4			
D: H8	"EA" 64+11.93	21.39 LT	1			
D: H8	"EA" 63+03.39	23.86 RT	1			
D: H8	"EA" 63+30.16	24.15 RT	2			
D: H8	"EA" 63+31.29	31.93 RT	1			
D: H8	"EA" 63+88.33	56.52 RT	1			
D: H8	"EA" 63+83.68	30.05 RT	2			
D: H8	"EA" 64+07.17	23.43 RT	1			
		TOTAL (EA)	138			

615(4)	DELINEATOR, RIGID						
SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS			
A: H1	"OSH" 5+73.06	39.02 RT	1				
A: H1	"OSH" 5+80.54	56.66 RT	1				
A: H1	"OSH" 5+98.08	74.33 RT	1				
A: H1	"OSH" 6+20.15	85.86 RT	1				
A: H1	"OSH" 6+44.68	90.18 RT	1				
A: H1	"OSH" 6+69.36	86.88 RT	1				
A: H1	"OSH" 6+95.10	78.56 RT	1				
A: H1	"OSH" 7+26.24	68.44 RT	1				
_		TOTAL (EA)	8				

615(5)	DELINEATOR, FLEXIBLE						
SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS			
C: H7	"IS" 8+02.92	20.03 LT	1				
C: H7	"IS" 8+09.76	3.02 LT	1				
C: H7	"3A" 18+14.64	9.98 LT	1				
		TOTAL (EA)	3				



HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

SUMMARY SHEET

NOTES:

1. SOME SIGNS WERE NOT LOCATED BY FIELD SURVEY. LOCATION GIVEN IS APPROXIMATE.

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	D4	D4

627(10)	ADJUSTMEN	IT OF VALV	E BOX
SHEET	STATION	OFFSET	QUANTITY (EA)
A: F1	"OSH" 5+39.85	38.00 LT	1
C: F1	"IS" 4+71.88	64.85 RT	1
C: F1	"IS" 4+74.41	44.51 RT	1
C: F2	"IS" 6+44.99	10.89 LT	1
C: F3	"IS" 7+99+98	2.00 LT	1
D: F1	"TA" 16+85.37	10.47 RT	1
D: F1	"TA" 16+99.80	7.87 RT	1
D: F1	"FS" 3+27.12	20.23 LT	1
D: F1	"FS" 3+89.66	22.51 LT	1
D: F3	"SA" 53+43.88	35.33 LT	1
D: F3	"SA" 53+46.59	5.97 LT	1
D: F3	"SA" 53+46.38	0.65 RT	1
D: F5	"SA" 40+52.86	7.84 LT	1
D: F5	"SA" 40+74.16	3.11 RT	1
D: F7	"DS" 3+26.06	16.49 LT	1
D: F7	"DS" 4+40.87	15.02 LT	1
D: F9	"ES" 3+22.17	14.89 LT	1
		TABLE (EA)	17

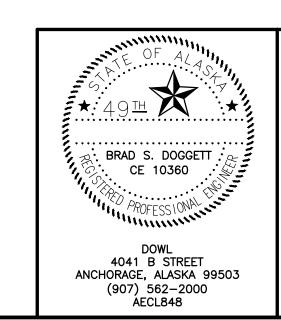
642(6)	REPL	ACE EX	ISTING WIT	H PRIMARY MONUMENT
SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
C: F1	"IS" 4+59.91	0.00 RT/LT	1	701 - PRIMARY CENTERLINE MONUMENT
C: F3	"IS" 8+19.97	0.00 RT/LT	1	702 - PRIMARY CENTERLINE MONUMENT
D: F1	"TA" 17+15.38	0.00 RT/LT	1	706 - PRIMARY CENTERLINE MONUMENT
D: F3	"SA" 53+60.29	0.00 RT/LT	1	839 - PRIMARY CENTERLINE MONUMENT
D: F5	"SA" 40+89.49	0.00 RT/LT	1	711 - PRIMARY CENTERLINE MONUMENT
D: F7	"EA" 85+20.79	0.00 RT/LT	1	801 - PRIMARY CENTERLINE MONUMENT
D: F9	"EA" 81+60.41	0.00 RT/LT	1	755 - PRIMARY CENTERLINE MONUMENT
D: F11	"EA" 74+40.45	0.00 RT/LT	1	836 - PRIMARY CENTERLINE MONUMENT
D: F13	"EA" 70+80.40	0.00 RT/LT	1	712 - PRIMARY CENTERLINE MONUMENT
D: F15	"EA" 63+60.19	0.00 RT/LT	1	807 - PRIMARY CENTERLINE MONUMENT
		TOTAL (EA)	10	

642(7)	REPLACE	EXISTING	WITH SEC	CONDARY MONUMENT
SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
C: F1	"IS" 4+05.99	30.07 RT	1	851 - PROPERTY CORNER
D: F7	"EA" 85+50.73	29.93 LT	1	753 - PROPERTY CORNER
D: F9	"EA" 81+30.60	30.07 RT	1	756 - PROPERTY CORNER
		TOTAL (EA)	3	

642(10)		MONUMENT CASE					
SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS			
C: F1	"IS" 4+05.99	30.07 RT	1	851 - PROPERTY CORNER			
C: F1	"IS" 4+59.91	0.00 RT/LT	1	701 - PRIMARY CENTERLINE MONUMENT			
C: F3	"IS" 8+19.97	0.00 RT/LT	1	702 - PRIMARY CENTERLINE MONUMENT			
D: F1	"TA" 17+15.38	0.00 RT/LT	1	706 - PRIMARY CENTERLINE MONUMENT			
D: F3	"SA" 53+60.29	0.00 RT/LT	1	839 - PRIMARY CENTERLINE MONUMENT			
D: F5	"SA" 40+89.49	0.00 RT/LT	1	711 - PRIMARY CENTERLINE MONUMENT			
D: F7	"EA" 85+20.79	0.00 RT/LT	1	801 - PRIMARY CENTERLINE MONUMENT			
D: F7	"EA" 85+50.73	29.93 LT	1	753 - PROPERTY CORNER			
D: F9	"EA" 81+30.60	30.07 RT	1	756 - PROPERTY CORNER			
D: F9	"EA" 81+60.41	0.00 RT/LT	1	755 - PRIMARY CENTERLINE MONUMENT			
D: F11	"EA" 74+40.45	0.00 RT/LT	1	836 - PRIMARY CENTERLINE MONUMENT			
D: F13	"EA" 70+80.40	0.00 RT/LT	1	712 - PRIMARY CENTERLINE MONUMENT			
D: F15	"EA" 63+60.19	0.00 RT/LT	1	807 - PRIMARY CENTERLINE MONUMENT			
		TOTAL (EA)	13				

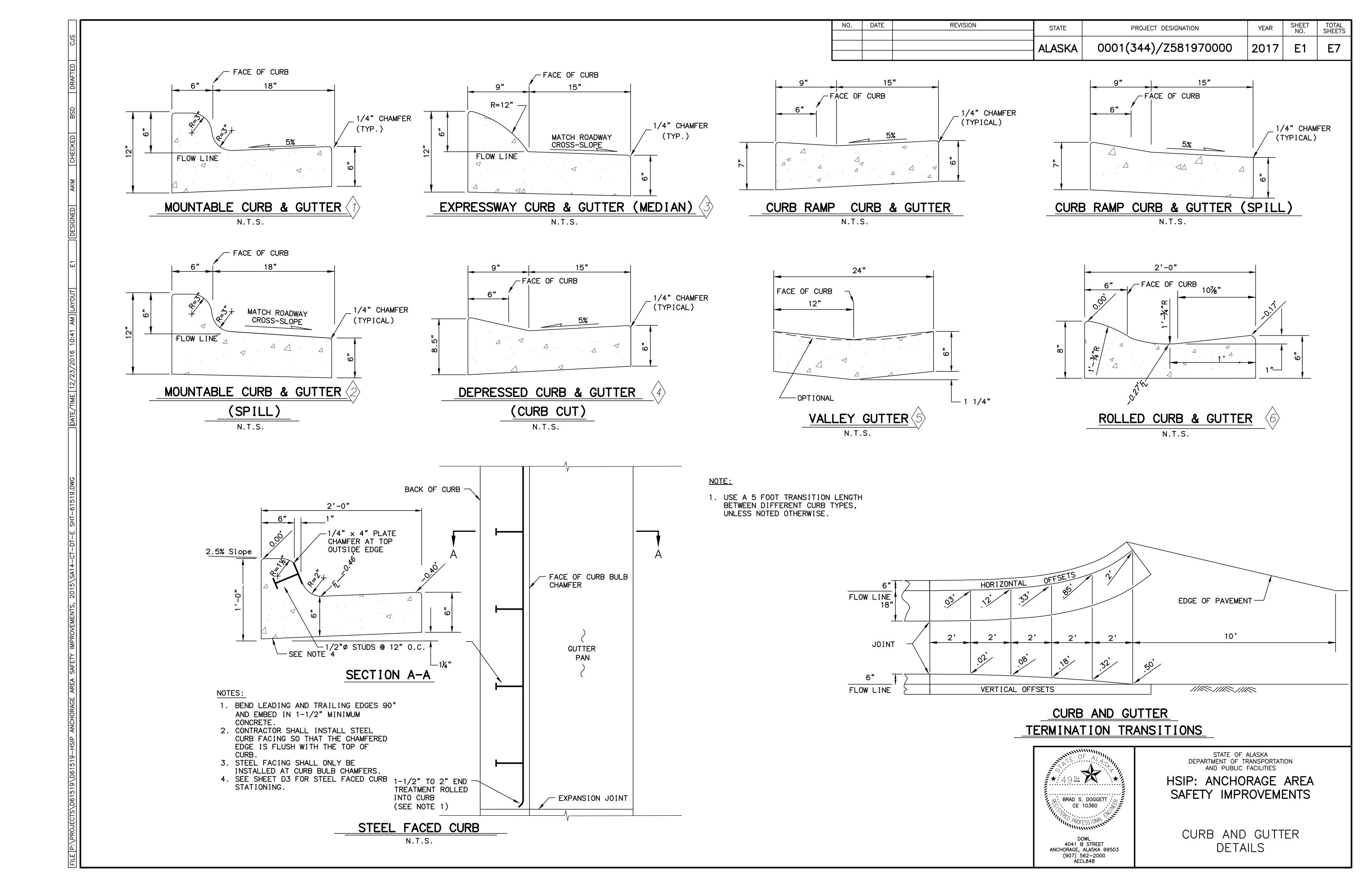
660(13)		RELOCATE ELECTROLIER							
	FROM	FROM TO							
SHEET	STATION	OFFSET	STATION	OFFSET	QUANTITY (EA)	REMARKS			
A: F1	"OSH" 5+92.56	27.00 RT	"OSH" 5+92.73	36.06 RT	1				
A: F1	"OSH" 5+54.45	57.71 LT	"OSH" 5+57.39	57.70 LT	1				
				TOTAL (EA)	2				

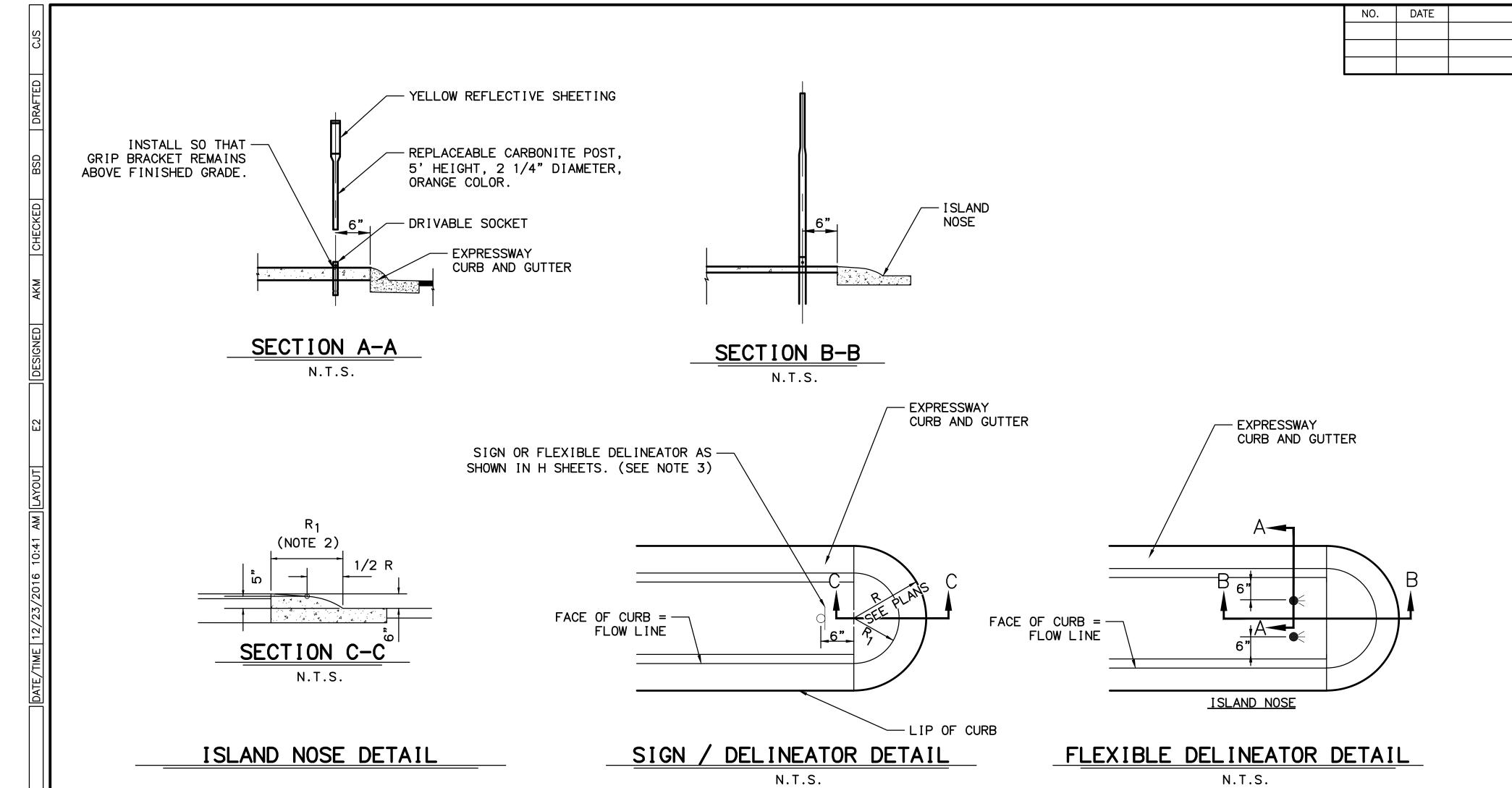
660(18)	ADJUST JUNCTION BOX						
SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS			
A: F1	"OSH" 4+97.95	32.25 RT	1				
D: 53	"SA" 53+16.93	25.67 LT	1				
D: F3	"SA" 54+03.56	29.05 LT	1				
D: F5	"SA" 40+64.37	33.84 LT	1				
D: F5	"SA" 40+63.64	38.41 RT	1				
D: F5	"SA" 41+15.47	36.64 RT	1				
D: F13	"EA" 70+54.45	37.50 LT	1				
D: F13	"EA" 70+54.74	35.65 RT	1				
D: F13	"EA" 71+08.46	36.67 RT	1				
		TOTAL (EA)	9				



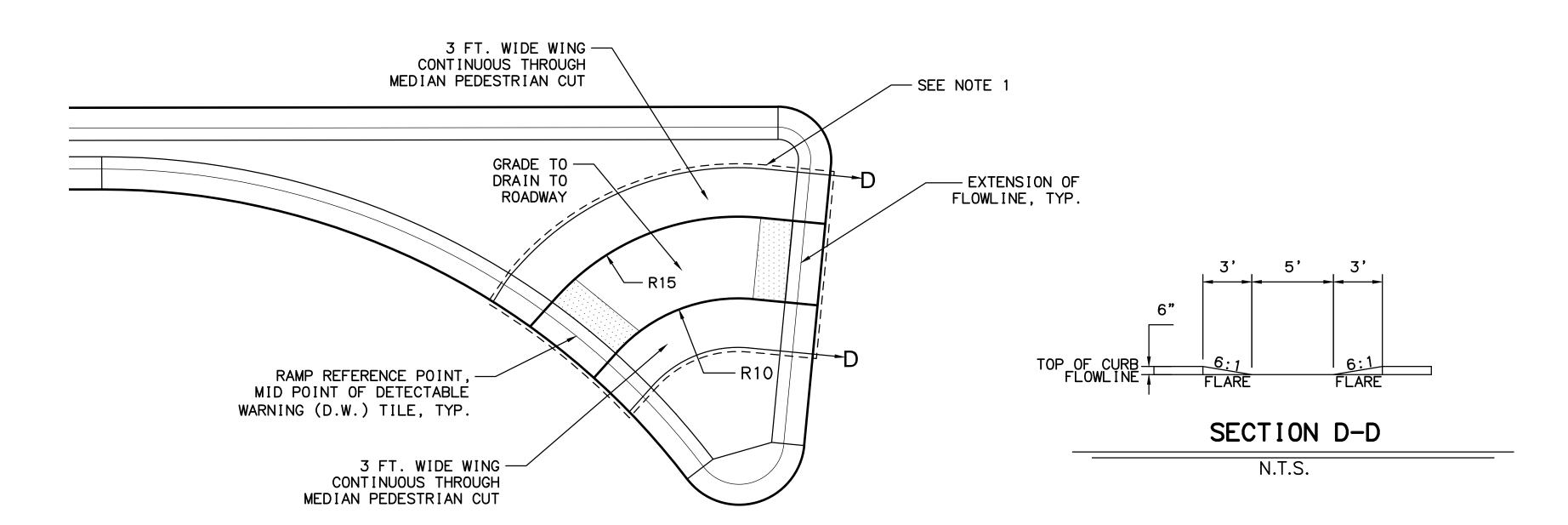
HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

SUMMARY SHEET





MEDIAN NOSE AND FLEXIBLE DELINEATOR DETAIL



SPECIAL CURB RAMP: INGRA AND 3RD MEDIAN ON SHEET C:F4

N.T.S.

SPECIAL CURB RAMP NOTE:

1. FLARES, CONCRETE, AND DETECTIBLE WARNING TILES WITHIN DASHED LINE ARE TO BE PAID FOR UNDER TWO CURB RAMPS.

MEDIAN NOSE DETAILS NOTES:

ALASKA

REVISION

1. ISLAND NOSE SHALL BE PAINTED WITH YELLOW REFLECTORIZED PAINT. SHAPING AND PAINTING WILL BE SUBSIDIARY TO THE 609(2) CURB AND GUTTER, TYPE I PAY ITEM.

PROJECT DESIGNATION

0001(344)/Z581970000

- 2. THE RADIUS DIMENSIONS PROVIDED IN THE PLANS ARE MEASURED TO TOP BACK OF CURB. CONTRACTOR WILL NEED TO CALCULATE THE VALUE OF "R" FROM RADIUS DIMENSION AND CURB GEOMETRY.
- 3. INSTALL FLEXIBLE DELINEATORS WHERE SHOWN IN THE 615(5) DELINEATOR SUMMARY TABLE ON SHEET D3. STATIONS AND OFFSETS PROVIDED ARE APPROXIMATE.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SHEET NO.

E2

2017

TOTAL SHEETS

E7

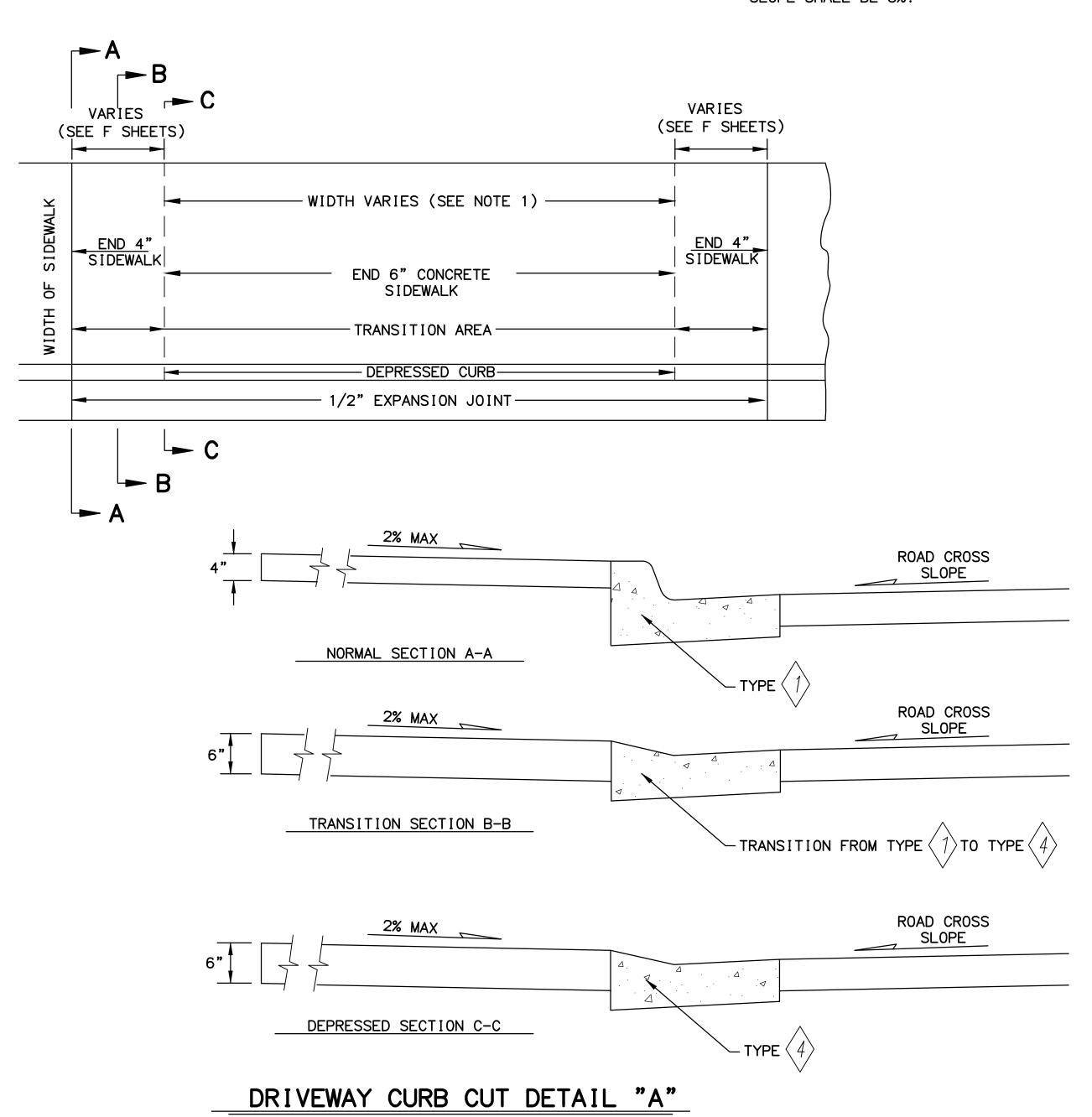
HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

CURB NOSE AND FLEXIBLE DELINEATOR DETAILS

	NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.
				ALASKA	0001(344)/Z581970000	2017	E3
IVEWAY ENTRANCES SHALL BE CONSTRUCTED AT THE WIRTHS							

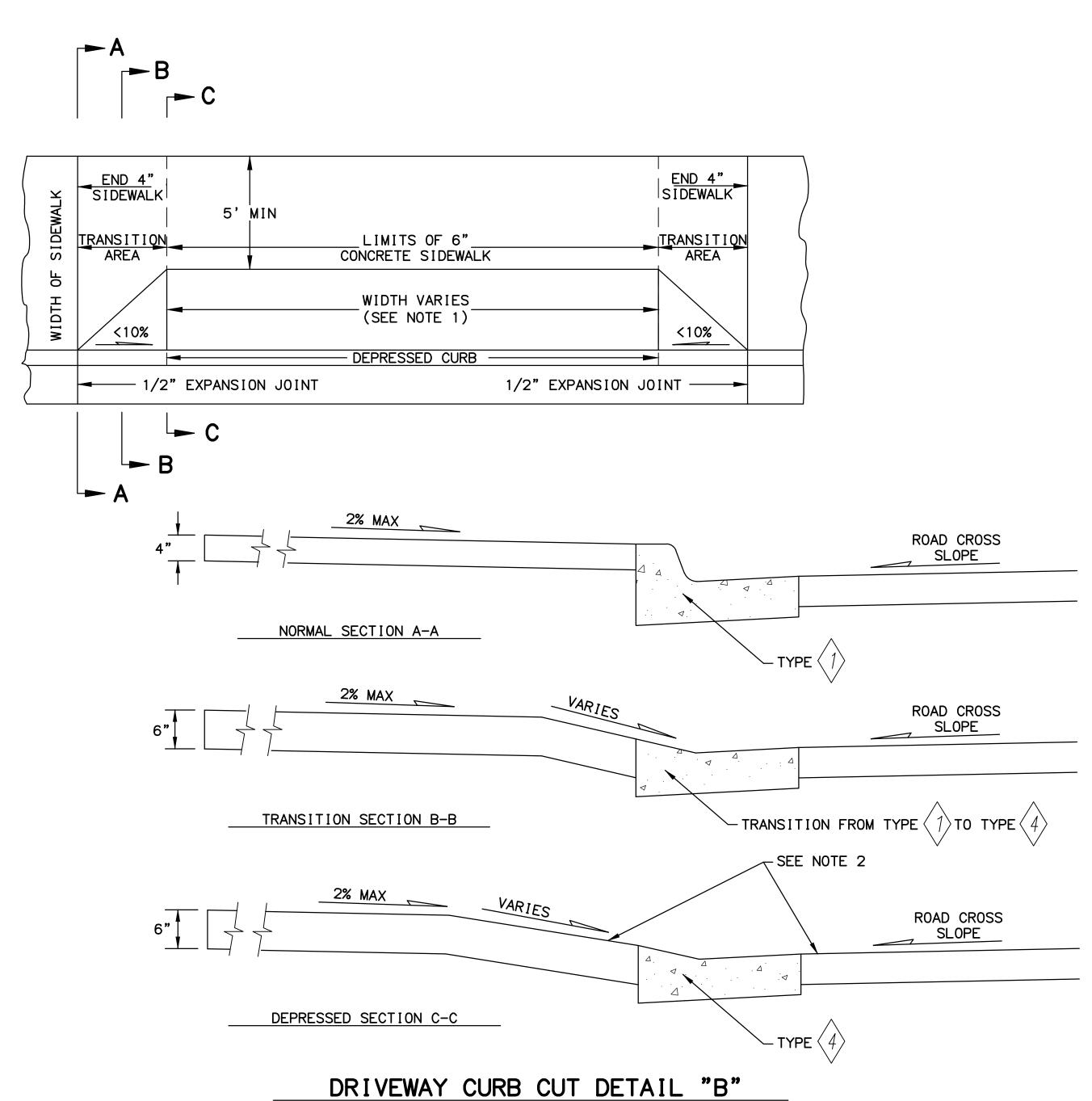
NOTES:

- 1. DRIVEWAY ENTRANCES SHALL BE CONSTRUCTED AT THE WIDTHS SHOWN IN THE PLANS AND THE DRIVEWAY CURB CUT TABLE BELOW.
- 2. MAXIMUM ALGEBRAIC DIFFERENCE BETWEEN RAMP AND ROADWAY CROSS SLOPE SHALL BE 8%.

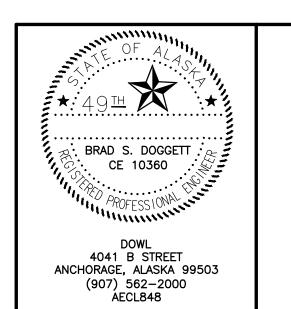


_	DRIVEWAY CURB CUT									
SHEET	BEGIN STATION	OFFSET	END STATION	OFFSET	DETAIL TYPE	WIDTH				
C:F2	"IS" 5+77.64	14.00 LT	"IS" 6+11.53	14.00 LT	Α	19.4'				
C:F2	"IS" 6+24.47	14.00 LT	"IS" 6+51.59	14.00 LT	Α	14.6'				
C:F3	"3A" 18+96.83	24.57 LT	"3A" 18+49.55	27.23 LT	В	32.5'				
D:F1	"TA" 16+10.18	14.28 LT	"TA" 16+61.68	14.15 LT	Α	37.3'				
D:F3	"SA" 54+13.93	14.24 LT	"SA" 54+42.98	14.92 LT	В	24.0'				
D:F7	"EA" 85+35.17	42.54 LT	"EA" 85+36.25	76.15 LT	В	20.0'				
D:F7	"EA" 85+06.25	44.12 RT	"EA" 85+06.34	77.12 RT	Α	21.6'				
D:F9	"EA" 80+80.37	12.98 LT	"EA" 81+19.23	12.87 LT	В	32.4'				
D:F15	"EA" 63+45.61	44.17 RT	"EA" 63+45.62	65.78 RT	Α	8.7'				

N.T.S



N.T.S

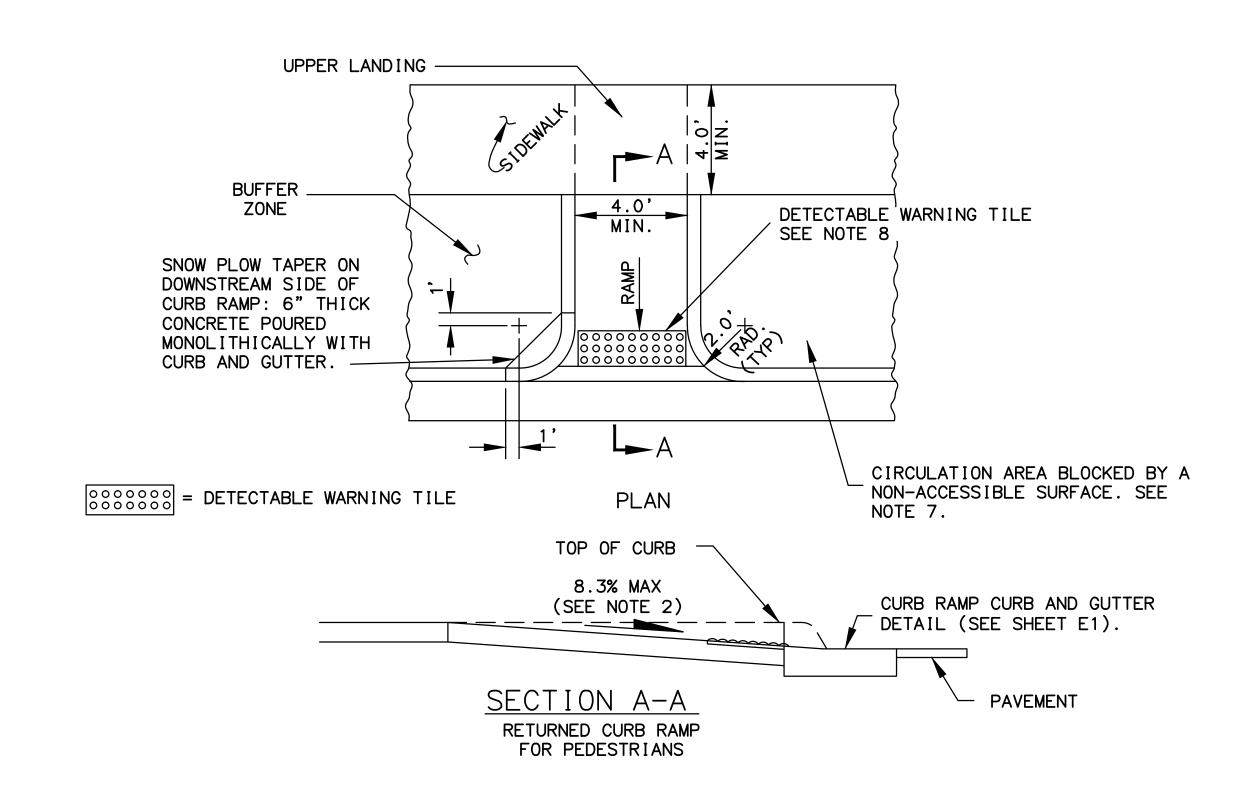


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES TOTAL SHEETS

E7

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

CURB CUT DETAILS



RETURNED CURB RAMP FOR PEDESTRIANS

N.T.S.

NOTES:

- 1. USE THE TYPE OF CURB AND GUTTER SHOWN ON THE PLANS.
- 2. RAMP SLOPES MAY BE A MAXIMUM 8.3%. RAMP LENGTHS SHOULD BE INCREASED TO KEEP GRADES UNDER THE 8.3% MAXIMUM, BUT ARE NOT REQUIRED TO EXCEED 15.0 FEET. THE RESULTING RAMP GRADE AT A 15.0 FOOT RAMP LENGTH IS ACCEPTABLE EVEN IF IT EXCEEDS 8.3%.

NO.

DATE

REVISION

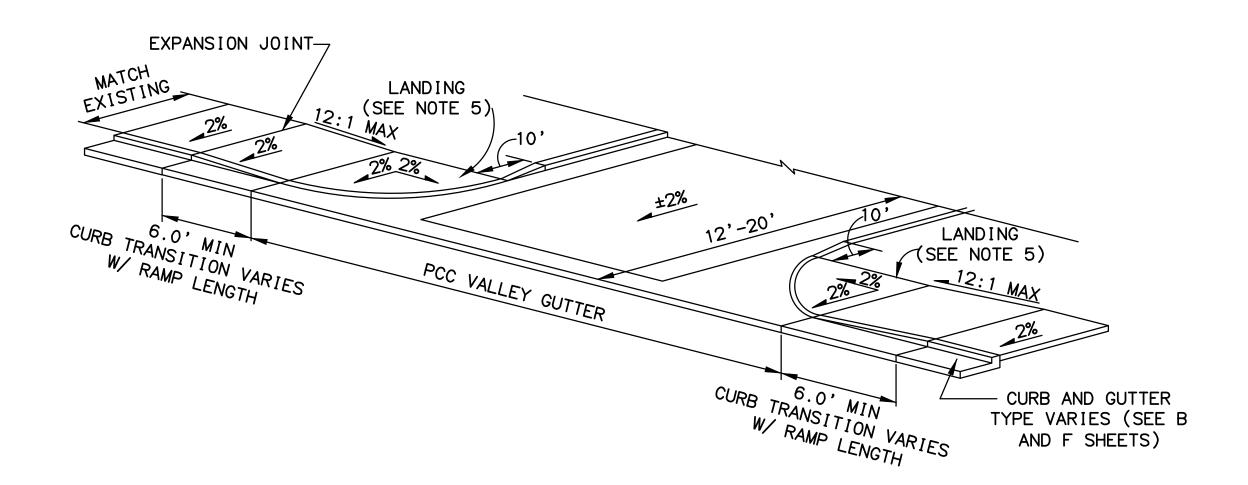
STATE

ALASKA

PROJECT DESIGNATION

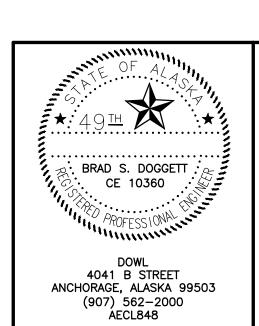
0001(344)/Z581970000

- 3. CONSTRUCT FLARE SLOPES AT 8.3% (MEASURED PARALLEL TO THE CURB LINE) OR FLATTER, SIDEWALK CROSS SLOPES AT 1.5% NOMINAL (1.0% MIN. AND 2.0% MAX). CONSTRUCT GRADE BREAKS PERPENDICULAR TO RAMP RUNS.
- 4. PROVIDE A COARSE BROOMED FINISH ON RAMP RUNS PERPENDICULAR TO THE RAMP SLOPE.
- 5. SIZE LANDING TO MEET ADA REQUIREMENTS.
- 6. MAXIMUM CROSS SLOPES ON UPPER LANDINGS, MEASURED IN ANY DIRECTION, IS 2.0%. MAXIMUM CROSS SLOPE ON RAMPS IS 2.0% MEASURED PERPENDICULAR TO THE RAMP RUN.
- 7. WHEN APPROVED BY THE ENGINEER, CURB RETURNS MAY BE REPLACED WITH FLARES AT LOCATIONS WHERE ACCESS TO THE SIDE OF A RAMP RUN IS FREE OF POLES, UTILITY BOXES, OTHER OBSTRUCTIONS, OR NON-ACCESSIBLE SURFACES SUCH AS A DIRT PLANTER STRIPS. SEE STANDARD DRAWING I-22.10 FOR FLARE DETAILS.
- 8. INSTALL 24" DETECTABLE WARNING TILES MEETING SECTION 705.1 OF THE 2006 ADA STANDARDS FOR TRANSPORTATION FACILITIES FOR THE FULL WIDTH OF THE RAMP. ALIGN TRUNCATED DOME PATTERN IN THE PREDOMINANT DIRECTION OF WHEELCHAIR TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.



DRIVEWAY CURB RETURN WITH ATTACHED SIDEWALK

N.T.S.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SHEET NO.

E4

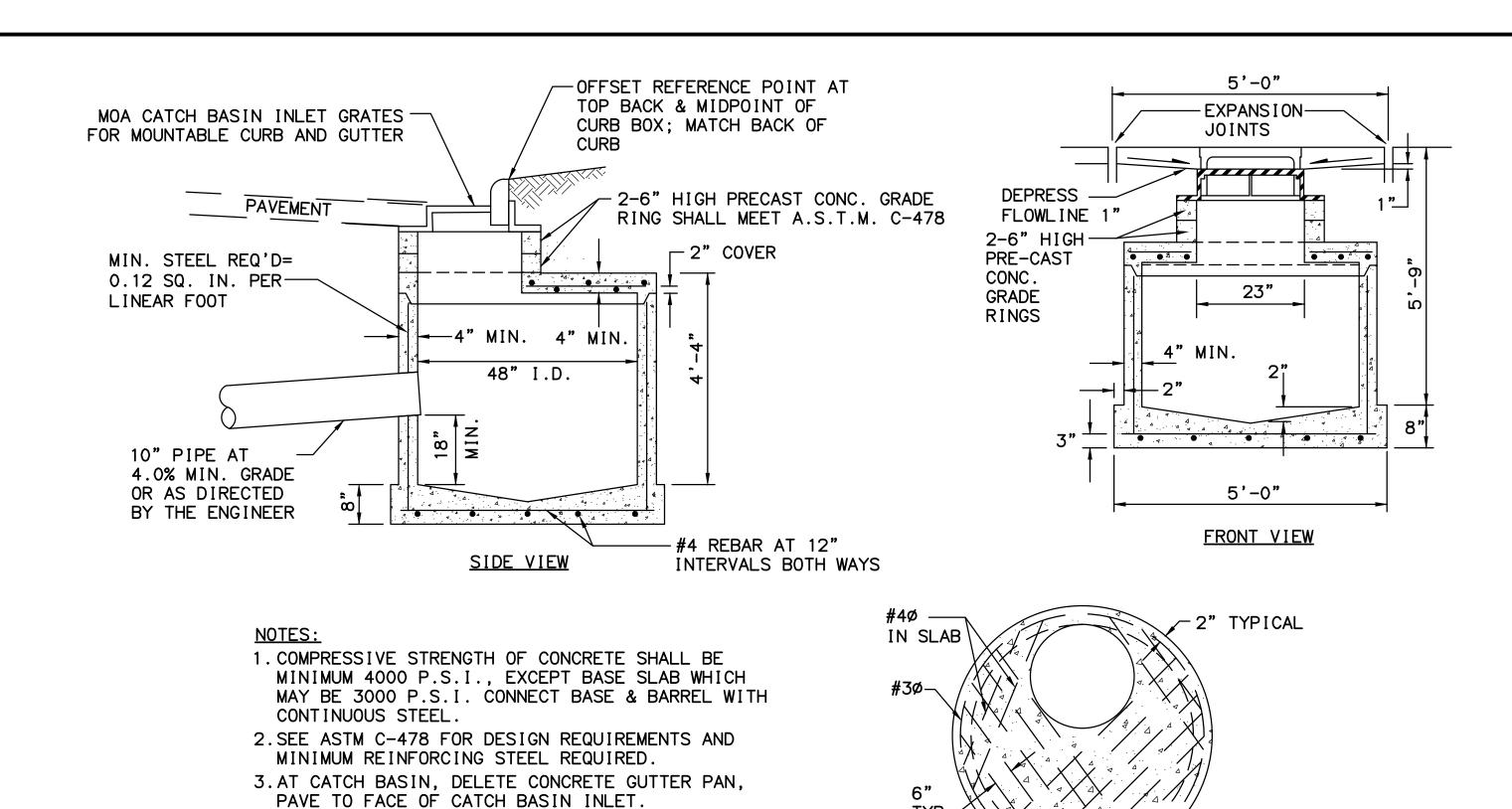
2017

TOTAL SHEETS

E7

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

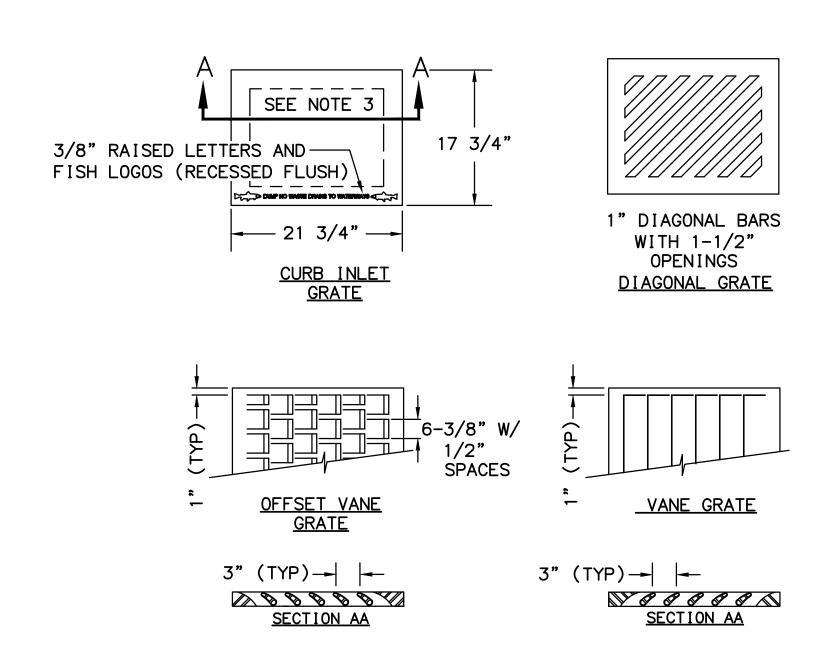
CURB & GUTTER, SIDEWALK, AND CURB RAMP DETAILS



REDUCING SLAB

MOA PRECAST CATCH BASIN INLET

N.T.S.

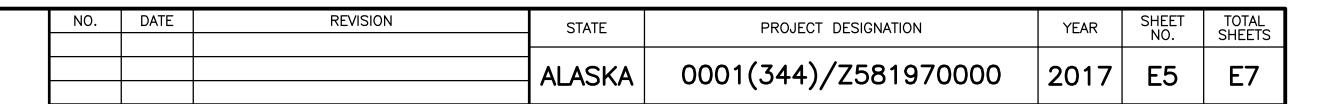


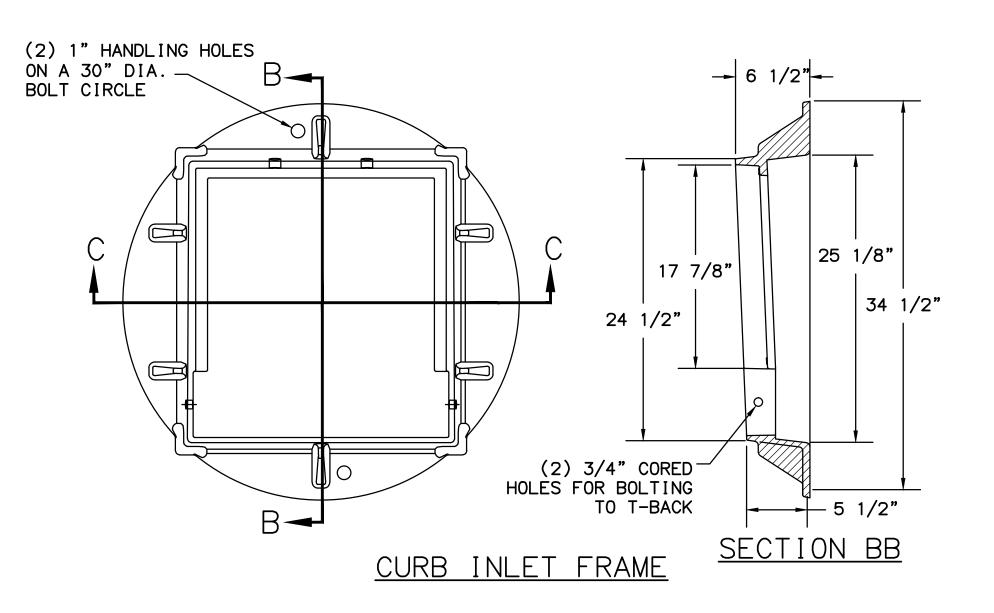
NOTES:

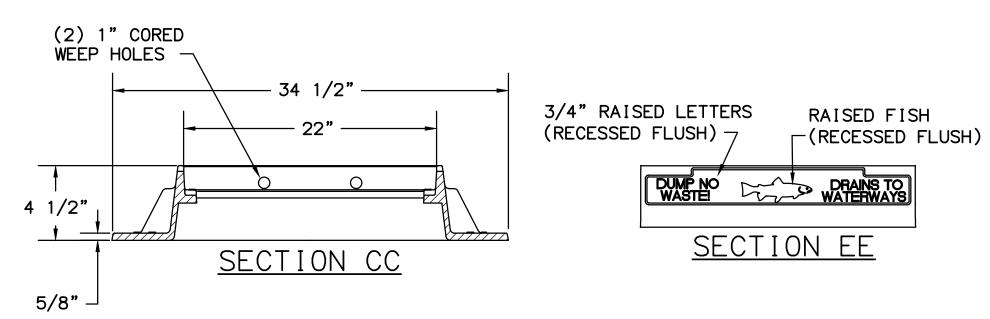
- 1. MINIMUM CASTING WEIGHT SHALL BE 400 LBS. FOR CURB INLET FRAME, HOOD & GRATE.
- 2. CURB INLET HOOD & GRATE SHALL CONFORM TO ASTM A536.
- 3. GRATE SHALL BE AS SHOWN ON THE DRAWINGS OR SPECIFIED BY THE ENGINEER.

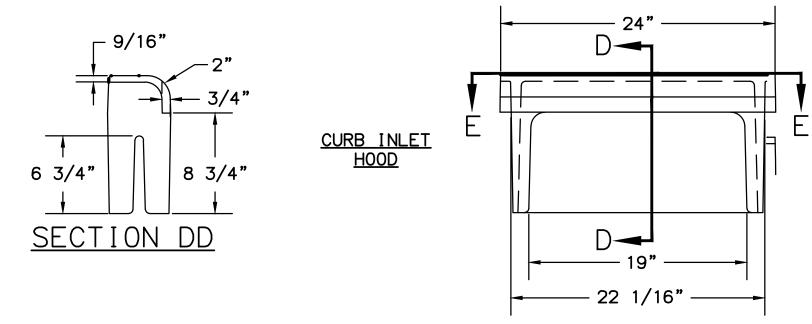
CATCH BASIN INLET GRATES

N.T.S.





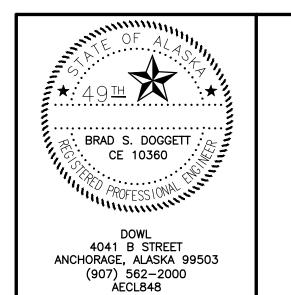




NOTES:

- 1. MINIMUM CASTING WEIGHT SHALL BE 400 LBS. FOR CURB INLET FRAME, HOOD & GRATE.
- 2. CURB INLET HOOD & GRATE SHALL CONFORM TO ASTM A536.
- 3. GRATE SHALL BE AS SHOWN ON THE DRAWINGS OR SPECIFIED BY THE ENGINEER.

CATCH BASIN INLET FRAME AND HOOD N.T.S.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

STORM DRAIN DETAILS

NOTES:

1. MANHOLE SECTIONS SHALL CONFORM TO A.S.T.M. C-478.

4. PLACE RUNGS 12" ON-CENTER ON UNOBSTRUCTED SIDE OF

5. MANHOLE SHALL HAVE MINIMUM OF ONE 6" GRADE RING.

UNLESS MINIMUM PIPE SLOPES CANNOT BE ACHIEVED.

9. "RAM-NEK" OR EQUAL AND PRIME BARREL JOINTS. HEAT

"RAM-NEK" AND SEAL SURFACES BEFORE FINAL ASSEMBLY

INCLUDED ANGLE BETWEEN LEADS GREATER THAN OR EQUAL TO 135°, OR PRIMARY LEADS NOT TO EXCEED 18" CPEP OR HDPEP

3 1/2"

10. PRIMARY LEADS NOT TO EXCEED 24" CPEP OR HDPEP WITH

11. A TYPE I MANHOLE SHALL NOT BE USED WHEN BOTH CATCH

12. STATION AND OFFSET IS TO THE CENTER OF STRUCTURE.

6. BACKFILL AROUND MANHOLE WITH A MINIMUM OF 3' BORROW,

7. CATCH BASIN LEADS SHALL ENTER THE MANHOLE AT LEAST ONE

8. STEEL REQ'D FOR BARREL SHALL CONFORM TO A.S.T.M. C-478. EMBED STEEL IN BASE SO THAT FIRST BARREL SECTION IS

MANHOLE 18" MAX. FROM BOTTOM OF MANHOLE & 6" MAX. FROM TOP OF CONE. IF UNOBSTRUCTED SIDE NOT AVAILABLE, BOTTOM RUNG TO BE PLACED 6" OVER SMALLEST PIPE. SEE COPOLYMER

I.A.W. MANUFACTURERS RECOMMENDATIONS.

POLYPROPYLENE MANHOLE STEP DETAIL.

WITH INCLUDED ANGLE LESS THAN 135°.

BASIN AND ACCESS FUNCTIONS ARE REQUIRED.

3. BLOCKOUTS SHALL BE FORMED.

INSTALLATION.

CONNECTED WITH BASE.

INJECTION MOLDED

POLYPROPYLENE

#4 DEFORMED STEEL BAR

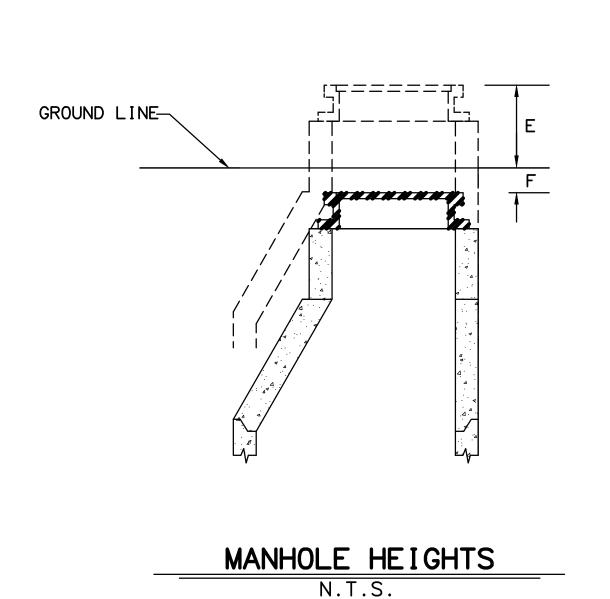
COPOLYMER

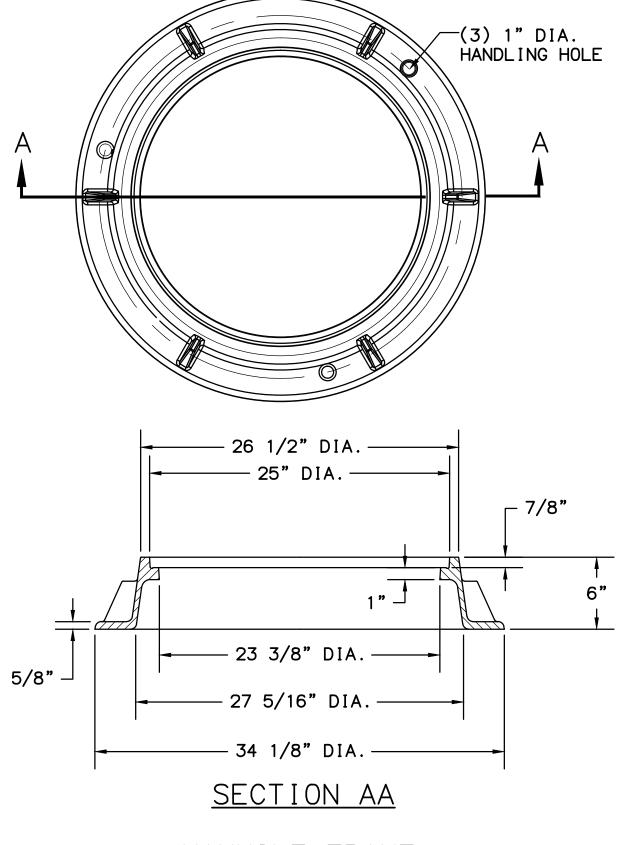
2. EXTEND PIPE 2" INTO MANHOLE. SEAL PIPE PENETRATIONS WITH NON-SHRINKABLE GROUT MIXED WITH POTABLE WATER

MANHOLE FRAME AND COVER OR CATCH BASIN INLET GRATES FOR MOUNTABLE CURB AND --- MANHOLE HEIGHTS DETAIL GUTTER _ CONCRETE GRADE RINGS 25-1/2" TYPE A. BACKFILL SHALL BE INCIDENTAL TO COST OF MANHOLE PRECAST CONCRETE PRIMARY LEAD DIAMETER ABOVE THE TOP OF THE PRIMARY LEAD ECCENTRIC REDUCING CONE REQUIRED, UNLESS OTHERWISE APPROVED 48" I.D. 4" MIN — SEE NOTE 4 - REDUCING SLAB REFLECTORS ∬SEE NOTE 12— 18" MIN CATCH

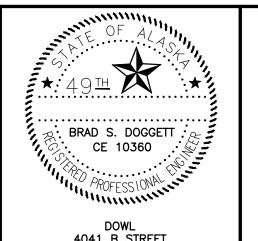
DATE SHEET NO. TOTAL SHEETS NO. REVISION PROJECT DESIGNATION 0001(344)/Z581970000 ALASKA 2017 E6 E7

LOCATION	E	F
BACKYARDS, GRAVEL STREETS, AND ALLEY AREAS WHERE TRAVELED.		6" TO 12"
UNDEVELOPED AND SWAMPY AREAS	24" MIN	
HIGHWAY ROW'S OUTSIDE TRAFFIC AREAS	6"	
PAVED STREETS (FEATHER PAVEMENT AT EDGE TO SMOOTH TRANSITION)		1/2"±1/4"





MANHOLE FRAME N.T.S.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

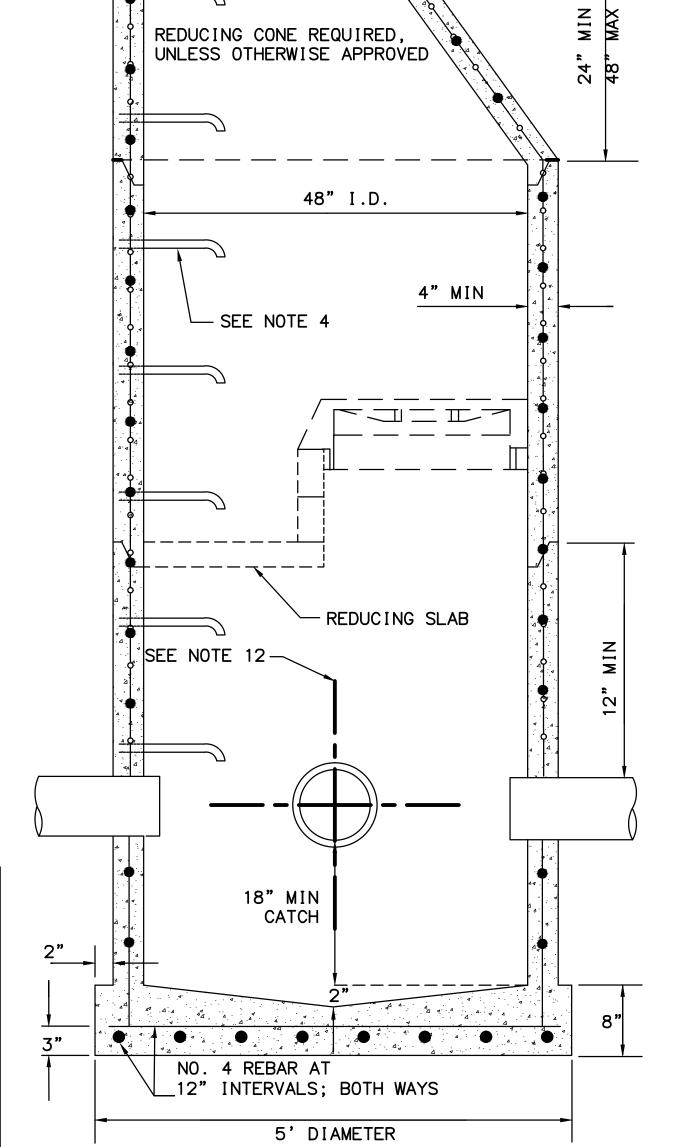
STORM DRAIN DETAILS

NOTES:		▽ '	_
	NTO PREFORMED OR DRILLED		

2. THE INSTALLED STEP SHALL RESIST A PULLOUT FORCE OF 1500 LBS.

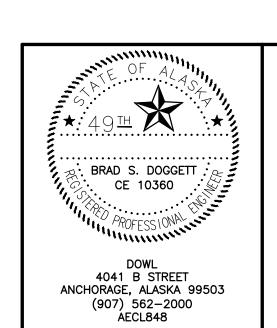
MANHOLE STEP

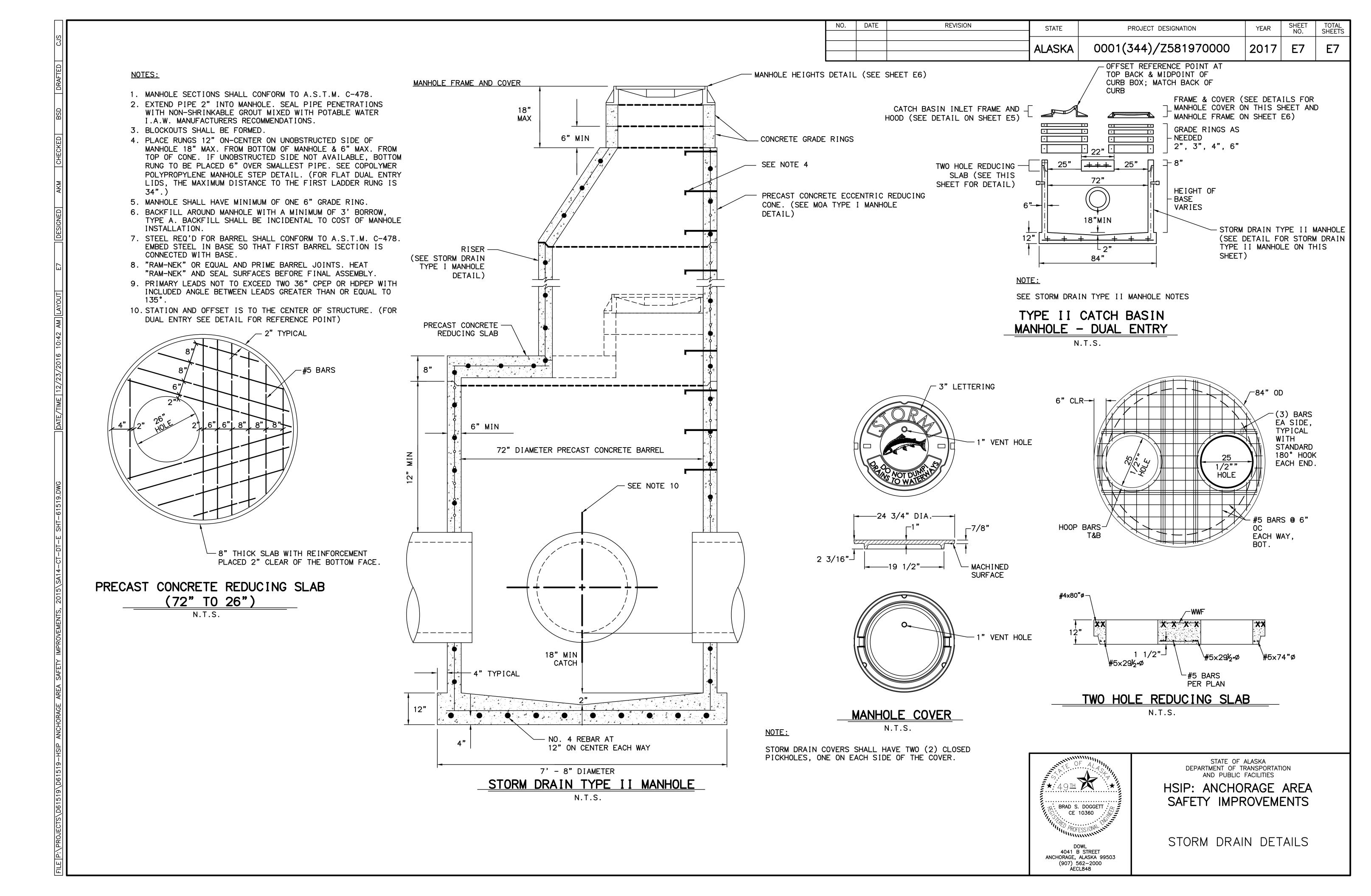
COPOLYMER POLYPROPLYENE N.T.S.



STORM DRAIN TYPE I MANHOLE

N.T.S.





SCO	<u>S</u>	YMBOL LEC	<u>GEND</u>	PAVEMENT MARK	KING LEGEND
	EXISTING	PR0P0SED		PROPOSED	
			LOAD CENTER		PROJECT CENTERLINE
DRAFTED	下= 		TRAFFIC CONTROLLER	8"W	8" WHITE SOLID STRIPE
BSD BSD			BEACON CONTROLLER	4"W	4" WHITE SOLID STRIPE
mi 	[##]	##	TYPE 1A JUNCTION BOX	4"W <u>SKIP</u> _	4" WHITE SKIP STRIPE 10' STRIPES AND 30' SPACES
СНЕСКЕР		##	TYPE II JUNCTION BOX	8"W GUIDE SKIP	8" WHITE LANE GUIDE SKIP LANE CONTINUATION OR TURN SKIP
뜅		##	TYPE III JUNCTION BOX	_ 4"W GUIDE SKIP_	1' STRIPES AND 3' SPACES 4" WHITE BIKE LANE GUIDE SKIP LANE CONTINUATION OR TURN SKIP
¥ ¥ ¥		##	TYPE IV JUNCTION BOX	8"Y	2' STRIPES AND 6' SPACES 8" YELLOW SOLID STRIPE
∐	(##)	\\ \\		4"Y	4" YELLOW SOLID STRIPE
DESIGNED		—##———————————————————————————————————	ELECTROL I ER	4"Y <u>SKIP</u> _	4", YELLOW SKIP STRIPE
	Ċ _## _	♦ [##]		+20	STRIPING CHANGE STATION INTER
	C HT#	О О О О О НТ#	H I GHTOWER	24"W (TYP)	2' CROSSWALK OR STOPBAR
LAYOUI	===== <u>-</u> - <u>-</u> - <u>-</u> - <u>#</u>	##	SIGNAL POLE WITH MASTARM	10.	LADDER CROSSWALK LAYOUT 2' WIDE RUNGS WITH 2' SPACES ALIGNED TO AVOID TIRE PATHS
AM		# #	PEDESTRIAN PUSH BUTTON	12' (2)-4"Y 3" APART	
10:42 Ar	- ## ## ##	##	PEDESTRIAN SIGNAL	S	TYPICAL PAINTED MEDIAN
2018 10	# #	#	VEHICULAR SIGNAL	18"Y @ 45°	
07/07		#	VEHICULAR SIGNAL LEFT	RCP_	RED CURB PAINT
771			VEHICULAR SIGNAL RIGHT	CONDUIT SIZ	E
-/ IIMIE	()-#	○##▶ ⋖	OPTICAL DETECTOR	NUMBER OF C	ABLES REQUIRED
	S S S S S S S S S S S S S S S S S S S	SPS SPS	GPS DETECTOR	NUMBER OF I PAIRS(PR),	NSULATED CONDUCTORS(C) OR IF OTHER THEN SINGLE CONDUCTOR
	CAM-	CAM CAM	CAMARA DETECTOR	CONDUCTOR S	IZE IN AWG
	() +→ ₽-	O +→ &-	RADAR DETECTOR	*	
	### ###	###	LOOP DETECTOR	3")1-3C4 CKT BA3 ►	
	- ++	+++-	ANTENNA, YAGI OR OMNI	[END OF CIRC ROTATE TO PO:	UIT SYMBOL Int in direction of circuit)
	$\langle \mathcal{R} \mathcal{L} \rangle$	R Y	MASTARM BEACON	CIRCUIT NUM	BER
	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	RURAL BEACON		LEFT-TURN SIGNAL FACE, MOUNT RIGHT OF DOOR —BACKPLATE —SIDE MOUNT BRACKETS
			SCHOOL ZONE BEACON	MOUNTING —	TERMINAL COMPARTMENT DOOR TERMINAL
			LOOP DETECTOR CONDUIT	BRACKET PEDESTRIAN	P2 ## COMPARTMENT
50			SIGNAL CONDUIT	PUSH BUTTON	##/
			LIGHTING CONDUIT	FLUSH MOUNT—	POLE SHAFT
			SIGNAL & LIGHTING CONDUIT		
		- 0 0 0 0 0 0 0 0	CONDUIT BORING	POLE SH	AFT LEGEND
	(2")	2"	CONDUIT SIZE IN INCHES		
	F/O #	F/0 #	FIBER OPTIC VAULT	CALL BEF	ORE YOU DIG!
7\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	I\C	I/c	INTERCONNECT		L CALL A MINIMUM OF
		(1)	SIGN POST & NUMBER		NCE OF CONSTRUCTION
COPEC I	Œ		PRIVATE SIGN		7-278-3121 OR 800-478-3121
E P: \ PROJECTS \ D61519 \ D615					ONECALL.COM/STATEWIDE.HTM OF WHO WILL BE NOTIFIED
ш∣∎					

TOTAL SHEETS NO. DATE REVISION STATE PROJECT DESIGNATION 0001(344)/Z581970000 2017 H9 **ALASKA** AWG - AMERICAN WIRE GAUGE H1 CIDH - CAST IN DRILLED HOLE

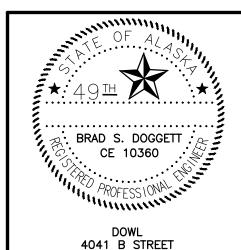
NOTES:

FOUNDATIONS NOTES:

- 1. STATION & C.L. REFERENCE ARE TO THE CENTER OF THE STRUCTURE, EXCEPT ON LOOPS WHICH ARE TO THE CENTER OF THE TRAILING EDGE OF THE LOOP (EDGE NEAREST INTERSECTION).
- 2. JUNCTION BOX LOCATIONS APPROXIMATE. LOCATE J-BOXES SO THAT THEY ARE LOCATED OUT OF THE PATHWAY, SIDEWALK, CURB RAMPS, AND DRAINAGE COLLECTION AREAS.
- 3. INSTALL LOAD CENTER AND TRAFFIC CONTROLLER FOUNDATIONS WITHIN 1-DEGREE OF PLUMB.
- 4. INSTALL ANCHOR BOLTS IN CAST FOUNDATIONS TO BE WITHIN 1:40 OF PLUMB.
- 5. TOPSOIL AND SEED ANY DISTURBED AREAS.

SIGNAL SYSTEM NOTES:

- 1. FURNISH THE SIGNAL AND LUMINAIRE MASTARM LENGTHS AND DIMENSIONS SPECIFIED ON THE POLE ELEVATIONS.
- 2. INSTALL DEVICES SUCH THAT THE DIMENSIONS SHOWN TO THE BOTTOM OF THE DEVICES ON THE POLE ELEVATIONS ARE MINIMUMS. VERTICAL DIMENSIONS TO SIGNAL HEADS ARE TO BOTTOM OF THE BACK PLATE.
- 3. INSTALL MAST ARMS PERPENDICULAR TO THE ROADWAY CENTERLINE. ACCEPTABLE VARIANCE IS +/- 1-DEGREE.
- 4. SALVAGE SIGNAL POLE ASSEMBLIES, SIGNS, SIGNAL FACES, AND LUMINARIES AND DELIVER TO MAINTENANCE AND OPERATIONS WITHIN 48-HOURS OF DECOMMISSIONING. COMPONENTS DAMAGED WHILE IN THE CONTRACTORS CUSTODY MUST BE REPLACED AT THE CONTRACTORS EXPENSE. REMOVE AND DISPOSE OF FOUNDATIONS.
- 5. SALVAGE EXISTING CONTROLLER CABINET AFTER NEW CONTROLLER CABINET IS IN SERVICE AND DELIVER TO MAINTENANCE AND OPERATIONS WITHIN 48-HOURS OF DECOMMISSIONING.
- 6. VEHICLE SIGNALS AND PEDESTRIAN SIGNALS SHALL BE LED MODULES.
- 7. REMOVE ABANDONED OR UNUSED TRAFFIC JUNCTION BOXES UNLESS OTHERWISE NOTED.
- 8. NEW SIGNAL HEADS THAT ARE MOUNTED BUT NOT IN OPERATION SHALL BE COVERED WITH A COMMERCIALLY AVAILABLE SIGNAL-SHIRT. EACH SIGNAL SHIRT SHALL FEATURE ELASTICIZED OPENINGS THAT FIT OVER THE VISORS AND AT LEAST TWO STRAPS TO SECURE IT TO THE SIGNAL. PROVIDE SHIRTS WITH A LEGEND THAT READS "OUT OF SERVICE" AND A CENTER SECTION THAT ALLOWS AN OPERATOR TO SEE THE INDICATIONS DURING SYSTEM TESTS.
- 9. SIGNAL HEADS ARE TO BE LOCATED PER FIGURE 4D-100, TYPICAL SIGNAL HEAD LOCATIONS, PER THE ALASKA TRAFFIC MANUAL. ACCEPTABLE VARIANCE IS +/- 1-F00T.
- 10. AIM SIGNALS PER TABLE 660-2, THROUGH-SIGNAL AIMING POINT, OF THE SPECIAL PROVISIONS. SIGNALS SHALL ALSO BE AIMED SO AS NOT TO BE VISIBLE FROM SIDE STREET TRAFFIC. ACCEPTABLE VARIANCE IS +/- 5 DEGREES.
- 11. EXISTING CIRCUITS LISTED ON THE LOAD CENTER SUMMARY AND PLAN SHEETS WERE OBTAINED FROM AS-BUILT INFORMATION AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO WORK INVOLVING THOSE CIRCUITS.
- 12. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL, INCLUDING ARROW BOARD DEVICE(S), FOR OVERHEAD INSPECTION AND LOCATE WORK PERFORMED BY MOA SIGNAL ELECTRONICS. CONTRACTOR SHALL BE ON-SITE AT COMPLETION OF LOCATES TO REVIEW LAYOUT AND MAKE STATIONING MEASUREMENTS FOR CONDUIT LOCATIONS.



ANCHORAGE, ALASKA 99503 (907) 562-2000

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

TRAFFIC LEGEND AND NOTES

12. IF THE NEW AND EXISTING PAVEMENT MARKINGS ARE NOT ALIGNED AT MATCH LINE, TRANSITION BETWEEN THE TWO USING A 100:1 TAPER ON THE NEW PAVEMENT.

PAVEMENT OR FACE OF CURB WHEN PRESENT.

ABBREVIATIONS

HEAD - VEHICULAR SIGNAL HEAD

LFNC - LIQUIDTIGHT FLEXIBLE

P1 - TRAFFIC SIGNAL POLE #

PE - POLYETHYLENE CONDUIT PEC - PHOTOELECTRIC CELL

RMC - RIGID METAL CONDUIT

SIG - SERVICE TO CONTROLLER

YAGI - DIRECTIONAL ANTENNA

SIGNING & STRIPING NOTES:

POST TYPES IN THE SIGN SUMMARY SHEETS.

B. T MEANS A SQUARE STEEL TUBE.

C. P MEANS A ROUND STEEL PIPE.

D. W MEANS A WIDE FLANGE BEAM.

DRAWING S-23

UNLESS STATED ELSEWHERE.

ON EACH SHOP DRAWING.

TO 12 INCHES.

ITEMS AND WORK.

A. PT MEANS A PERFORATED STEEL TUBE.

WITH THEIR TOPS LEVEL WITH ONE ANOTHER

1. ALL STATION LOCATIONS FOR SIGN INSTALLATION ARE APPROXIMATE.

2. USE THE FOLLOWING DEFINITIONS TO DECIPHER THE ABBREVIATED SIGN

E. POPL MEANS A POLE PLATE INSTALLED PER ITS STANDARD

3. FABRICATE ALL SIGNS FROM 0.125" THICK ALUMINUM SHEETING,

4. FOR SIGNS SUPPORTED BY MULTIPLE POSTS, FABRICATE THE POSTS

5. FOR PERFORATED STEEL TUBE SIGNPOSTS, INSTALL THE CONCRETE

FOUNDATION OPTION SHOWN ON STANDARD DRAWING S-30.03. TRIM

6. FABRICATE GUIDE SIGNS ACCORDING TO THE SHOP DRAWINGS INCLUDED

7. ERECT NEW SIGNS BEFORE REMOVAL OF EXISTING SIGNS WITH SIMILAR

MESSAGE. NOTIFY THE ENGINEER A MINIMUM OF 14 DAYS PRIOR TO

BEGINNING SIGN REMOVAL AND SALVAGE OR DISPOSAL ACTIVITIES.

OUTER POSTS ON MAXIMUM SIX FEET CENTERS. INSTALL ADJACENT

DISCRETION OF THE ENGINEER, IN ACCORDANCE WITH SECTION 201,

SIGN VISIBILITY REQUIREMENTS. IF NOT INCLUDED AS A SEPARATE

ITEM, THIS WORK SHALL BE SUBSIDIARY TO THE SIGN INSTALLATION

MATERIALS. LONGITUDINAL MARKINGS SHALL BE INLAID AT 250 MILS, TRANSVERSE AND SYMBOL MARKINGS TO BE INLAID AT 250 MILS, GORE

UPSTREAM OF ALL SIGN INSTALLATION LOCATIONS TO ACHIEVE MINIMUM

8. FOR SIGNS SUPPORTED BY MULTIPLE TUBES OR PIPES, LOCATE THE

WIDE FLANGE POSTS ON MINIMUM EIGHT FEET CENTERS.

9. SELECTIVE AND HAND CLEARING SHALL BE PERFORMED AT THE

10. FOR ALL FINAL PAVEMENT MARKINGS USE METHYLMETHACRYLATE

11. DIMENSIONS REFER TO THE CENTER OF STRIPE AND THE EDGE OF

STRIPES SHALL BE SURFACE APPLIED AT 60 MILS.

IN THE APPENDICES OF PART 4, CONTRACT PROVISIONS AND SPECIAL

PROVISIONS. TRIM THE CORNERS OF ALL SIGNS TO THE RADIUS SHOWN

EACH PT POST TO LIMIT THE LENGTH INSERTED INTO THE FOUNDATION

INSTALL SIGNS AT LOCATIONS AS DIRECTED BY THE ENGINEER.

TC - TRAFFIC CONTROLLER

PRE 2 - PREEMPTION #

SB - SOUTH BOUND

WB - WEST BOUND

INTERVAL

PEDI - PEDESTRIAN SIGNAL HEAD

INTX L - INTERSECTION LIGHTING

NONMETALLIC CONDUIT

OMNI - OMNI DIRECTIONAL ANTENNA

PED B 28 - PEDESTRIAN PUSH BUTTON #

PRE CON 2 - PREEMPTION CONTROLLER #

¢ - CENTERLINE

EB - EAST BOUND

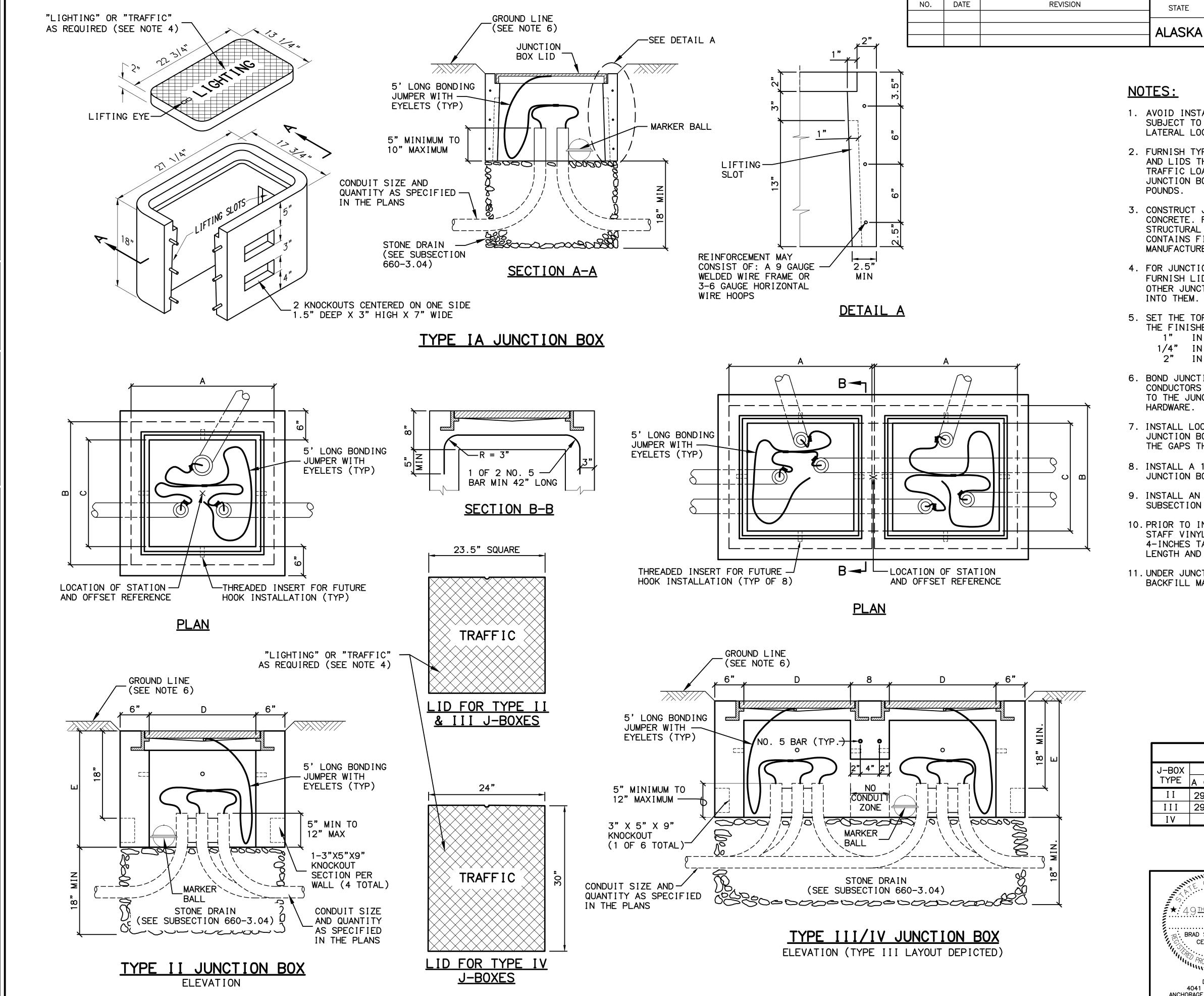
LC - LOAD CENTER

LTG - LIGHTING

NB - NORTH BOUND

INTX - INTERSECTION

13. WHERE NEW STRIPING IS TO EXTEND BEYOND PAVING LIMITS, REMOVE EXISTING STRIPING IN ACCORDANCE WITH SUBSECTION 670-3.04 TO THE EXTENT OF STRIPING LIMITS.



1. AVOID INSTALLING TYPE IA JUNCTION BOXES IN DRIVEWAYS OR IN LOCATIONS SUBJECT TO USE BY HEAVY TRUCKS. INSTALL JUNCTION BOXES ONLY AT THE LATERAL LOCATIONS ALLOWED IN SUBSECTION 660-3.04.

PROJECT DESIGNATION

0001(344)/Z581970000

TOTAL SHEETS

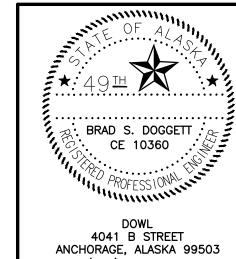
H9

2017

H2

- 2. FURNISH TYPE II, III AND IV JUNCTION BOXES WITH CAST IRON FRAMES AND LIDS THAT WEIGH A MINIMUM OF 210 POUNDS AND ARE RATED FOR HEAVY TRAFFIC LOADS IN COMPLIANCE WITH AASHTO M306. FURNISH TYPE IA JUNCTION BOXES WITH CAST IRON LIDS THAT WEIGH A MINIMUM OF 50 POUNDS.
- 3. CONSTRUCT JUNCTION BOXES ACCORDING TO SECTION 501 USING CLASS A CONCRETE. REINFORCE TYPE IA JUNCTION BOXES AS SHOWN. SYNTHETIC STRUCTURAL FIBER-REINFORCED CONCRETE THAT MEETS ASTM C 1116 AND CONTAINS FIBER IN PROPORTIONS AS RECOMMENDED BY THE FIBER MANUFACTURER MAY BE ADDED FOR STRENGTH.
- 4. FOR JUNCTION BOXES THAT CONTAIN ILLUMINATION CONDUCTORS EXCLUSIVELY, FURNISH LIDS WITH THE WORD "LIGHTING" INSCRIBED INTO THEM. FOR OTHER JUNCTION BOXES, FURNISH LIDS WITH THE WORD "TRAFFIC" INSCRIBED INTO THEM.
- 5. SET THE TOPS OF JUNCTION BOXES WITH THE FOLLOWING DIMENSIONS BELOW THE FINISHED SURROUNDING SURFACE:
 - IN PAVED MEDIANS AND ADJACENT TO PEDESTRIAN FACILITIES
 - IN PEDESTRIAN FACILITIES
 - IN ALL OTHER AREAS
- 6. BOND JUNCTION BOX LIDS TO THE SYSTEM OF EQUIPMENT GROUNDING CONDUCTORS ACCORDING TO SUBSECTION 660-3.06. ATTACH BONDING JUMPERS TO THE JUNCTION BOX LIDS WITH BRASS OR STAINLESS STEEL HARDWARE.
- 7. INSTALL LOOP DETECTOR TAILS THROUGH ONE OF THE KNOCKOUTS OF TYPE 1A JUNCTION BOXES. AFTER SETTING THE BOXES TO GRADE, INSTALL GROUT IN THE GAPS THAT REMAIN IN THE KNOCKOUT.
- 8. INSTALL A 1/2" THICK PREFORMED BITUMINOUS JOINT MATERIAL AROUND JUNCTION BOXES INSTALLED IN PORTLAND CEMENT CONCRETE WALKWAYS.
- 9. INSTALL AN ELECTRONIC MARKER BALL IN ALL JUNCTION BOXES PER SUBSECTION 660-3.04.
- 10. PRIOR TO INSTALLATION MARK ALL JUNCTION BOX LOCATIONS WITH A WIRE STAFF VINYL FLAG. THE FLAG SHALL BE RED IN COLOR AND MINIMUM 4-INCHES TALL BY 5-INCHES WIDE. THE WIRE STAFF SHALL BE 21-INCHES IN LENGTH AND CONSTRUCTED OF MINIMUM 15.5 GAUGE STEEL
- 11. UNDER JUNCTION BOXES, INSTALL STONE DRAINS THAT CONSIST OF POROUS BACKFILL MATERIAL CONFORMING TO SUBSECTION 703-2.10.

	J-BOX DIMENSIONS										
J-B0X		DIMENSIONS A (MAX.)B (MAX.)C (MIN.)D (MIN.)E (MIN.)									
TYPE	A (MAX.)										
ΙΙ	29 1/2"	29 1/2"	22"	22"	24"						
III	29 1/2"	29 1/2" 29 1/2" 22" 22" 24"									
I۷	30 "										

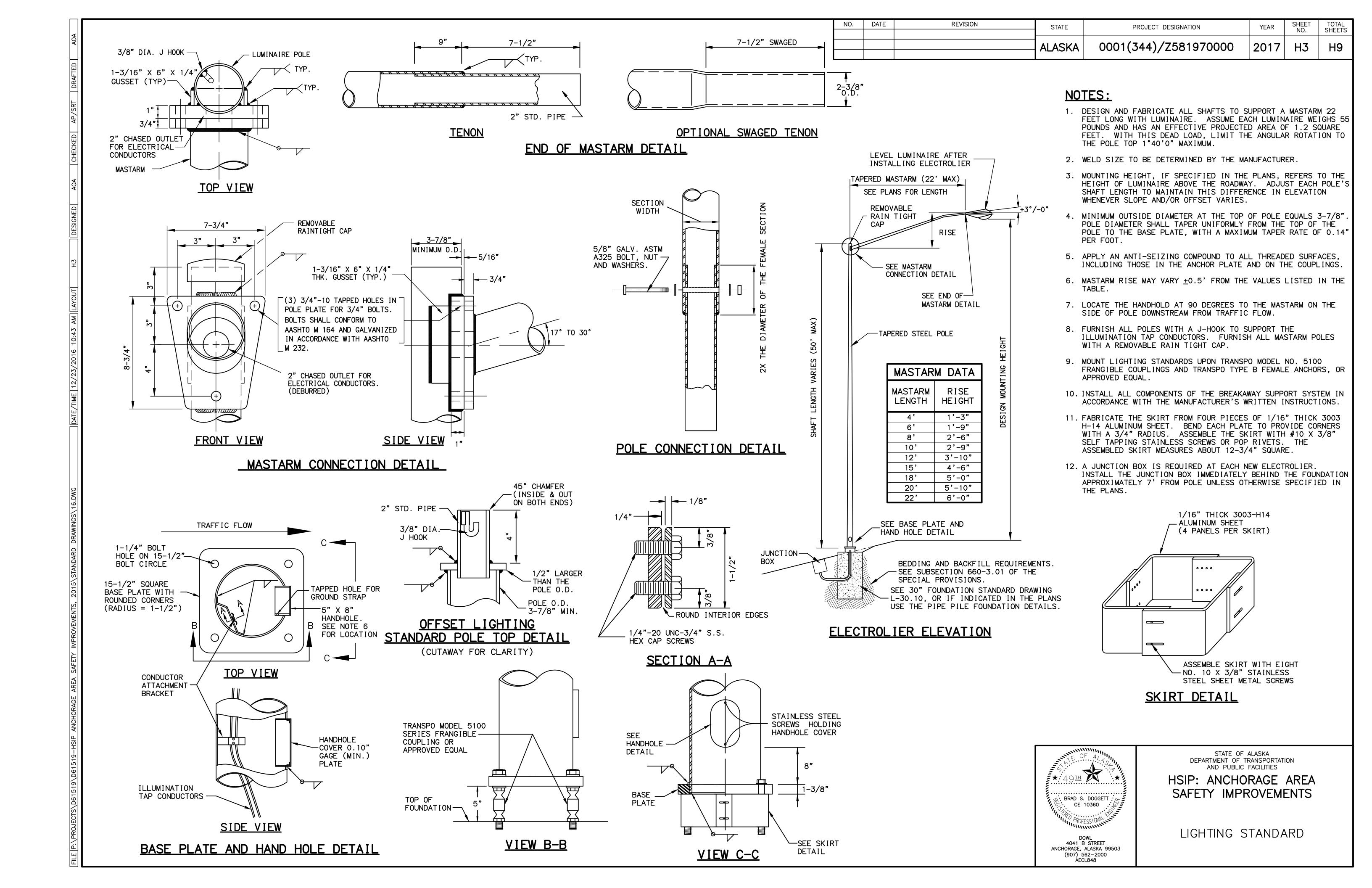


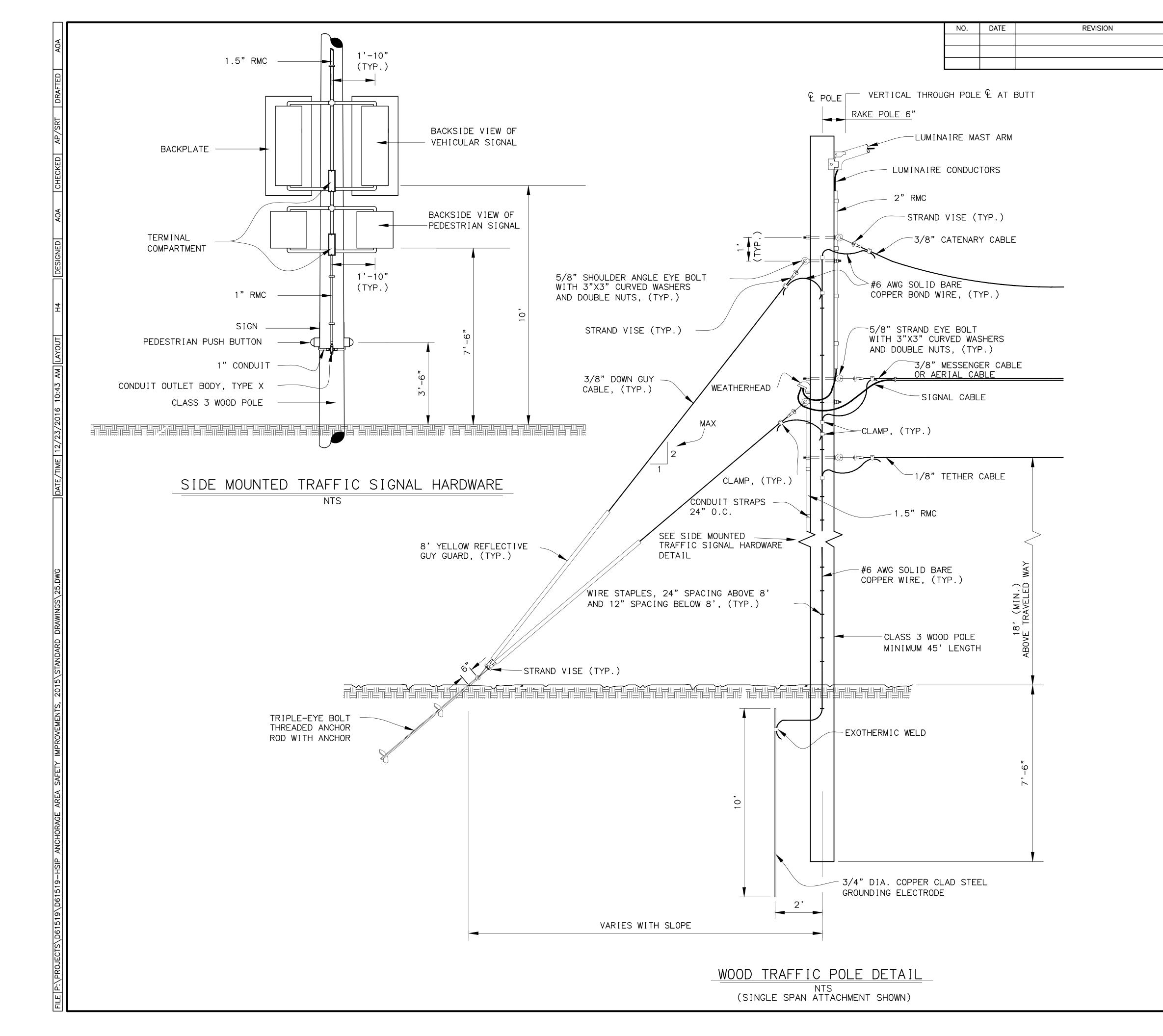
(907) 562-2000 AECL848

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

JUNCTION BOX DETAILS





GENERAL NOTES:

STATE

ALASKA

1. USE SIGNAL FRAMES WITH TERMINAL COMPARTMENTS TO INSTALL THE VEHICULAR AND PEDESTRIAN SIGNAL HEADS ON THE SIDES OF THE WOOD POLES.

PROJECT DESIGNATION

0001(344)/Z581970000

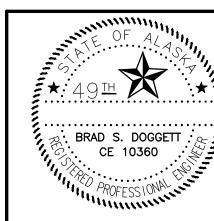
TOTAL SHEETS

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- 2. SECURELY ATTACH THE TERMINAL COMPARTMENTS TO THE WOOD POLES AT THE LOCATIONS SHOWN ON THE SIGNAL HARDWARE DETAIL SHEET IN PLANS.
- 3. THE VERTICAL CLEARANCES SHOWN ARE FROM THE WALKING SURFACE FOR THE PEDESTRIAN GEAR AND THE TRAVELED WAY FOR THE VEHICULAR SIGNALS.
- 4. TERMINATE POLES WITH NO LUMINAIRE A MINIMUM OF 2 FEET ABOVE THE CATENARY CABLE CONNECTION.
- 5. SEE SIGNAL HARDWARE DETAIL SHEET IN PLANS FOR ADDITIONAL TRAFFIC SIGNAL HARDWARE DETAILS.
- 6. ALL 3/8 INCH SPAN AND GUY CABLE SHALL BE HEAVY DUTY (HD) STEEL WITH MINIMUM 9,700 LB BREAKING STRENGTH. ALL OTHER CABLES SHALL ALSO BE HD RATED.
- 7. GUY ANCHOR SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. SOIL CLASSIFICATION SHALL BE USED TO DETERMINE ANCHOR SIZE, FOLLOW MANUFACTURE GUIDELINES AND CONFIRM SOIL CLASSIFICATION WITH ENGINEER PRIOR TO ANCHOR SELECTION.

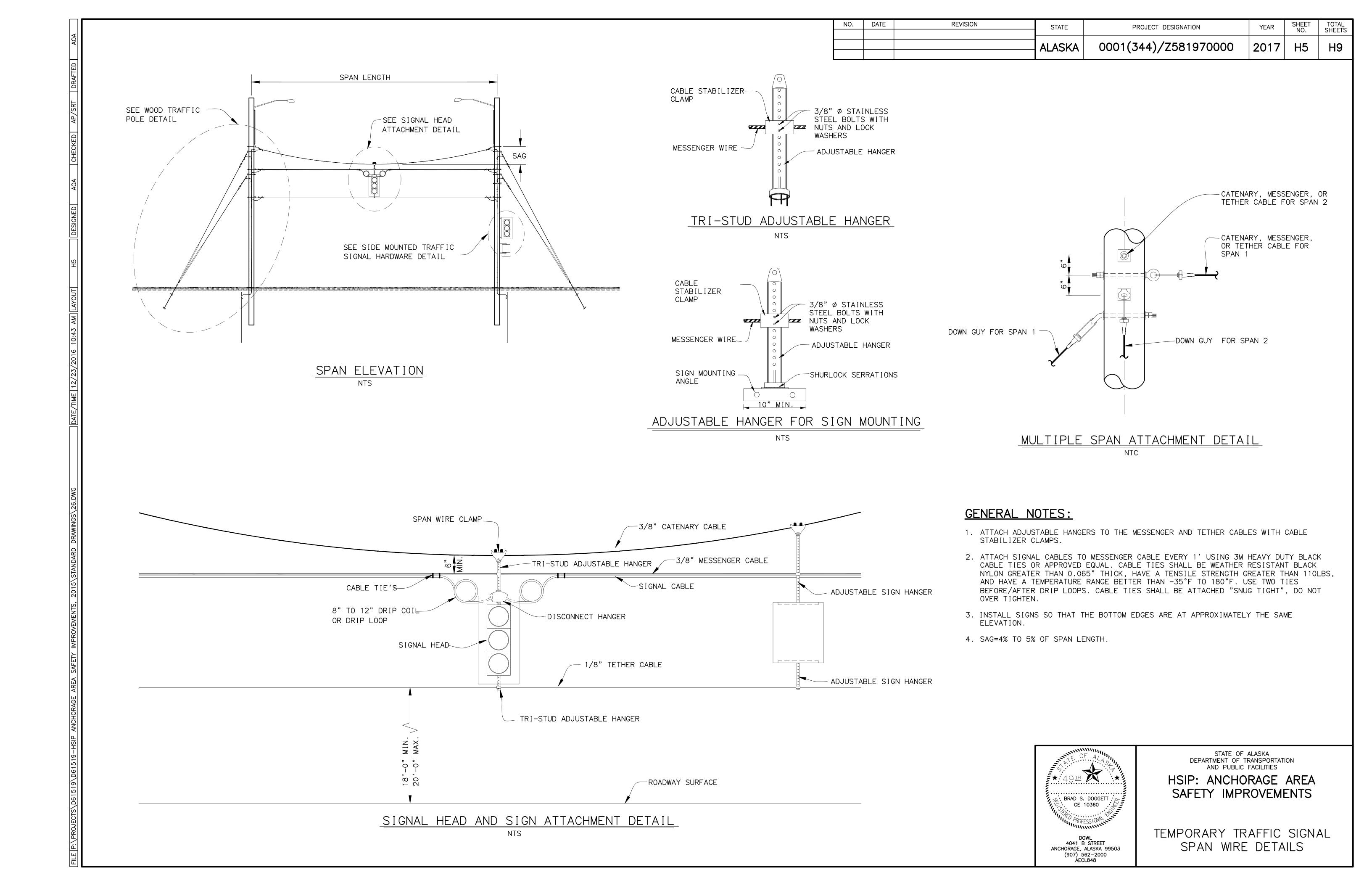


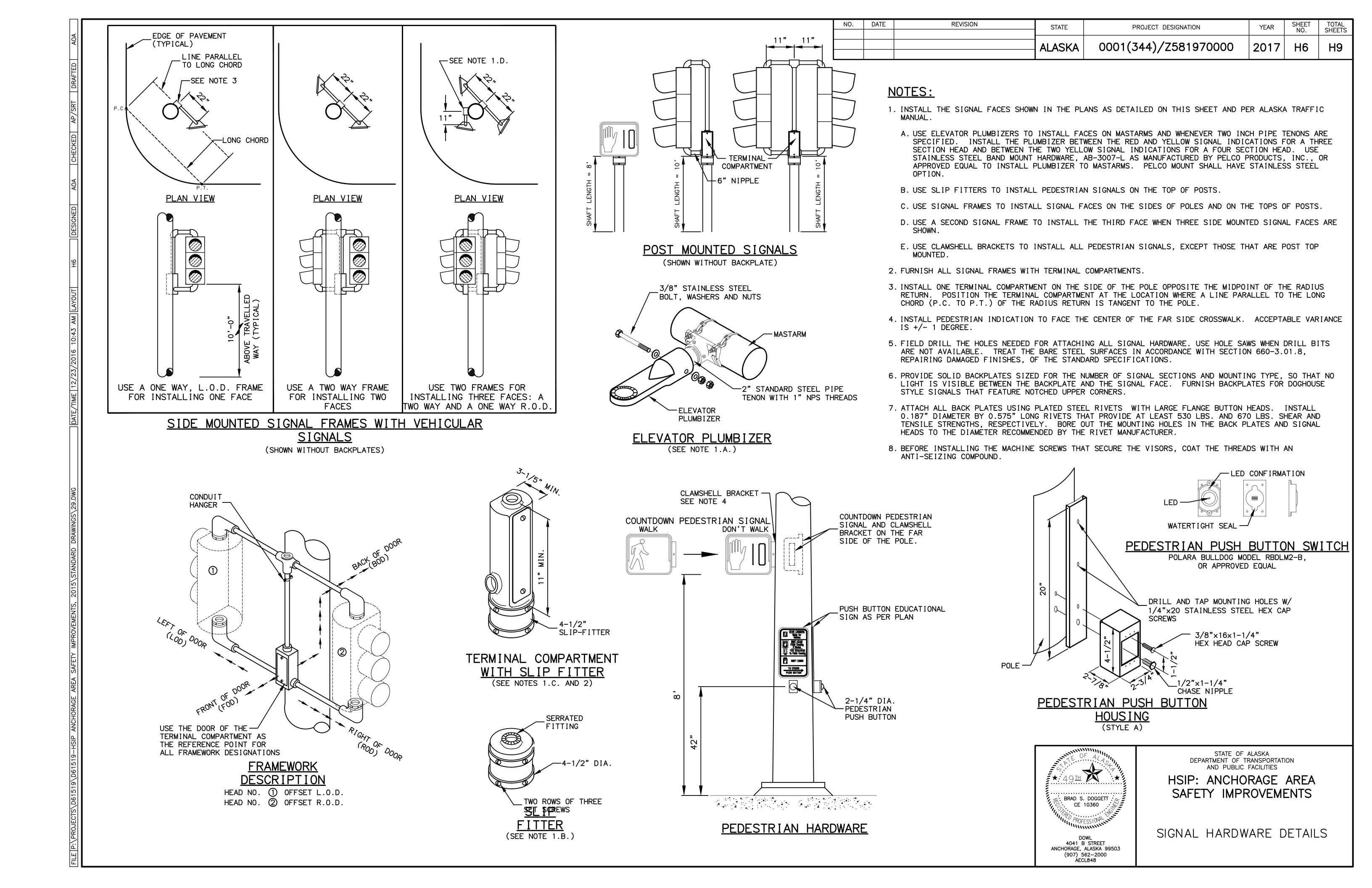
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

TEMPORARY WOOD POLE SIGNAL DETAILS

DOWL 4041 B STREET ANCHORAGE, ALASKA 99503 (907) 562–2000 AECL848





			OPTICAL DETECTOR \	
4		8	OPTICAL DETECTOR 7 6 7	7 6 7
		9	ASTRO-MINI-BRAC	
<u>PARTS</u>	LIST FOR E	ACH GTT OPTICOM	DETECTOR INSTALLED	<u>!</u>
	GTT OPTICO CONFIGU	M MODEL 575 CONFIRMATION RE AS SHOWN FROM PARTS	ON LIGHT KIT BELOW	
	PART NO.	PART TYPE	LIGHT KIT QUANTITY	
	2 PA 3 C0 4 C0	" CONDUIT BODY R 38 LAMP HOLDER NDUIT COVER VER GASKET DUCING BUSHING	1 2 1 1 2	

3/4" X 90° ELBOW

3/4" LOCKNUT 3/4" HOLE PLUG 3/4" X 6" NIPPLE

3/4"X2" GALVANIZED NIPPLE

ADD 2 TO KIT

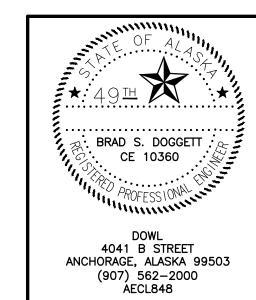
ADD 1 TO KIT ADD 1 TO KIT

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET	TOTAL
1	10/25/2016	ENGINEER'S EDITS, PART NO. 6.		THOUSE DESIGNATION		NO.	SHEETS
			ALASKA	0001(344)/Z581970000	2017	Н7	Н9
				0001(011)/ 20010/0000	20 1 /	117	110

NOTES:

- 1. SEE THE SIGNAL PLANS FOR THE SIGNAL POLE MAST ARMS SCHEDULED FOR EVP INSTALLATION.
- 2. FOR EACH EVP INSTALLATION, FURNISH:
 - A. A GTT MODEL 711, 721, 722 OPTICOM DETECTOR AS CALLED FOR IN PLANS.
 - B. AN ASTRO-MINI-BRAC, MODEL AB-0155-L, AS MANUFACTURED BY PELCO PRODUCTS OR AN APPROVED EQUAL.
 - C. A GTT MODEL 575 CONFIRMATION LIGHT KIT WITH THE ADDITIONAL PARTS SHOWN IN THE PARTS LIST, OR STEEL PARTS, WITH A HOT DIP GALVANIZED FINISH, AS SHOWN IN THE PARTS LIST.
 - D. WITH EACH OPTICOM DETECTOR INSTALLED, FURNISH A PAR38 20 WATT LED FLOOD LAMP RATED FOR 120 VOLT OPERATION, 1250 INITIAL LUMENS, AND A 25000 HOUR LAMP LIFE.
- 3. MOUNT EVP DETECTORS TO HAVE DIRECT, UNOBSTRUCTED LINE-OF-SIGHT OF APPROACHING VEHICLES. DRILL A 1 INCH HOLE IN THE TOP DEAD CENTER OF THE MAST ARM AT THE LOCATION PRE-APPROVED BY THE ENGINEER. ASSEMBLE AND TIGHTEN THE PARTS AND LOCKNUTS AS SHOWN ON THIS SHEET.
- 4. BEFORE ATTACHING THE MODEL 138 DETECTOR CABLE TO THE OPTICOM DETECTOR, STRIP THE INSULATION FROM THE THREE INSULATED CONDUCTORS AT THE CONTROLLER CABINET AND ATTACH ALL FOUR CONDUCTORS TO GROUND.
- 5. PREEMPTION EMITTERS SHALL BE ASSIGNED ID NUMBERS BY JURISDICTION AS SHOWN IN VEHICLE EMITTER TABLE.

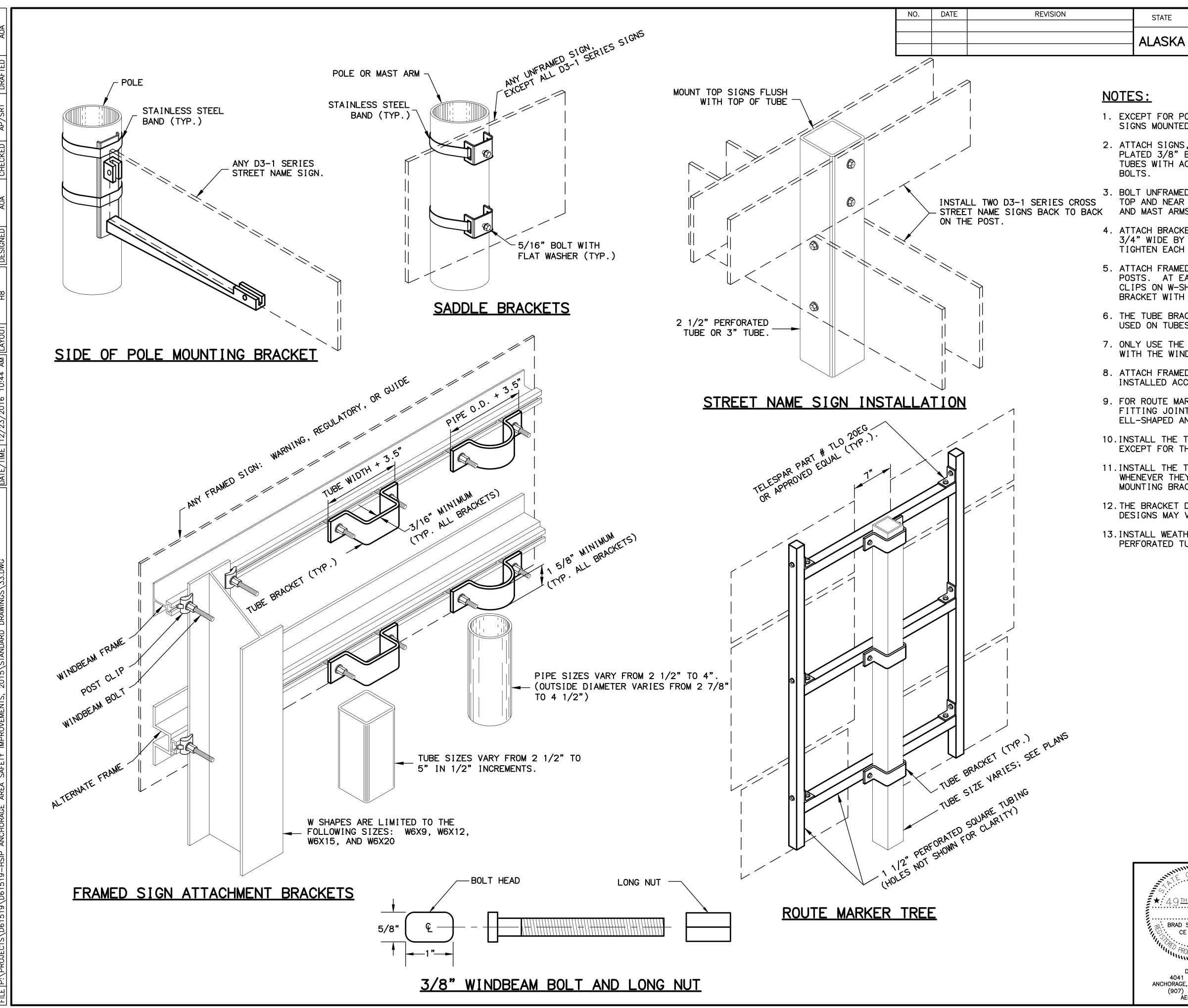
	VEHICLE EMITTER TABLE									
CLASS	VEHICLE I.D. NO.	JURISDICTION	VEHICLE TYPE							
0	NOT USED	MUNICIPALITY OF ANCHORAGE	FIRE & EMS							
1	NOT USED	MUNICIPALITY OF ANCHORAGE	OTHER							
2	NOT USED	FAIRBANKS	FIRE & EMS							
3	NOT USED	FAIRBANKS	OTHER							
4	1-30	MATANUSKA/SUSITNA	FIRE & EMS							
5	NOT USED	MATANUSKA/SUSITNA	OTHER							
6	NOT USED	KENAI PENINSULA	FIRE & EMS							
7	NOT USED	KENAI PENINSULA	OTHER							
8	NOT USED	ELMENDORF/FT. RICHARDSON	FIRE & EMS							
9	NOT USED	ELMENDORF/FT. RICHARDSON	OTHER							



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

EVP INSTALLATION DETAILS



STATE

- 1. EXCEPT FOR POLES AND MAST ARMS, ONLY USE TUBES TO SUPPORT SIGNS MOUNTED ON ONE POST.
- 2. ATTACH SIGNS, FRAMED AND UNFRAMED TO THEIR SUPPORTS WITH ZINC PLATED 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PERFORATED TUBES WITH ACCESSORY DRIVE RIVETS AND TO SADDLES WITH 5/16" BOLTS.

PROJECT DESIGNATION

0001(344)/Z581970000

TOTAL SHEETS

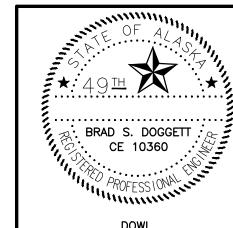
H9

2017

H8

- 3. BOLT UNFRAMED SIGNS DIRECTLY TO TUBES IN TWO LOCATIONS, NEAR TOP AND NEAR BOTTOM OF MATING SURFACE. ATTACH THEM TO POLES AND MAST ARMS WITH TWO SADDLES.
- 4. ATTACH BRACKETS TO POLES AND MAST ARMS WITH DOUBLE WRAPS OF 3/4" WIDE BY 0.020" THICK STAINLESS STEEL BANDING MATERIAL. TIGHTEN EACH BAND UNTIL IT STOPS MOVING THROUGH THE BUCKLE.
- 5. ATTACH FRAMED SIGNS TO POSTS WHEREVER THE FRAMES CROSS THE POSTS. AT EACH CROSSING, ATTACH THE SIGN USING TWO POST CLIPS ON W-SHAPE POSTS, A U-SHAPED BRACKET ON PIPES, AND A BRACKET WITH SQUARE CORNERS ON TUBES.
- 6. THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
- 7. ONLY USE THE SPECIAL WINDBEAM BOLTS TO ATTACH SIGNS FRAMED WITH THE WINDBEAM FRAMING MATERIAL
- 8. ATTACH FRAMED SIGNS TO POLES AND MAST ARMS USING POLE PLATES INSTALLED ACCORDING TO STANDARD DRAWING S-23.00
- 9. FOR ROUTE MARKER TREES, CUT PERFORATED TUBES TO ENSURE TIGHT FITTING JOINTS. ASSEMBLE THE PIECES WITH ACCESSORY ELL-SHAPED ANGLE BRACKETS.
- 10. INSTALL THE TOP EDGE OF SIGNS 1" ABOVE THE TOPS OF POSTS, EXCEPT FOR THE D3-1 STREET NAME SIGNS.
- 11.INSTALL THE TOP EDGE OF SIGNS 3" BELOW THE TOP OF POST, WHENEVER THEY ARE MOUNTED BELOW SIGNS SECURED BY POST TOP MOUNTING BRACKETS.
- 12. THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
- 13. INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED TUBING.

	FASTENER SPECIFICATION TABLE						
FAS	TENERS	STEEL	STAINLESS STEEL				
B0LTS		ASTM A 307	ASTM F 593				
NUTS	REGULAR LOCK	ASTM A 563	ASTM F 594				
WASHE	RS	ASTM A 36	ASTM A 480				
P0ST	CLIPS						

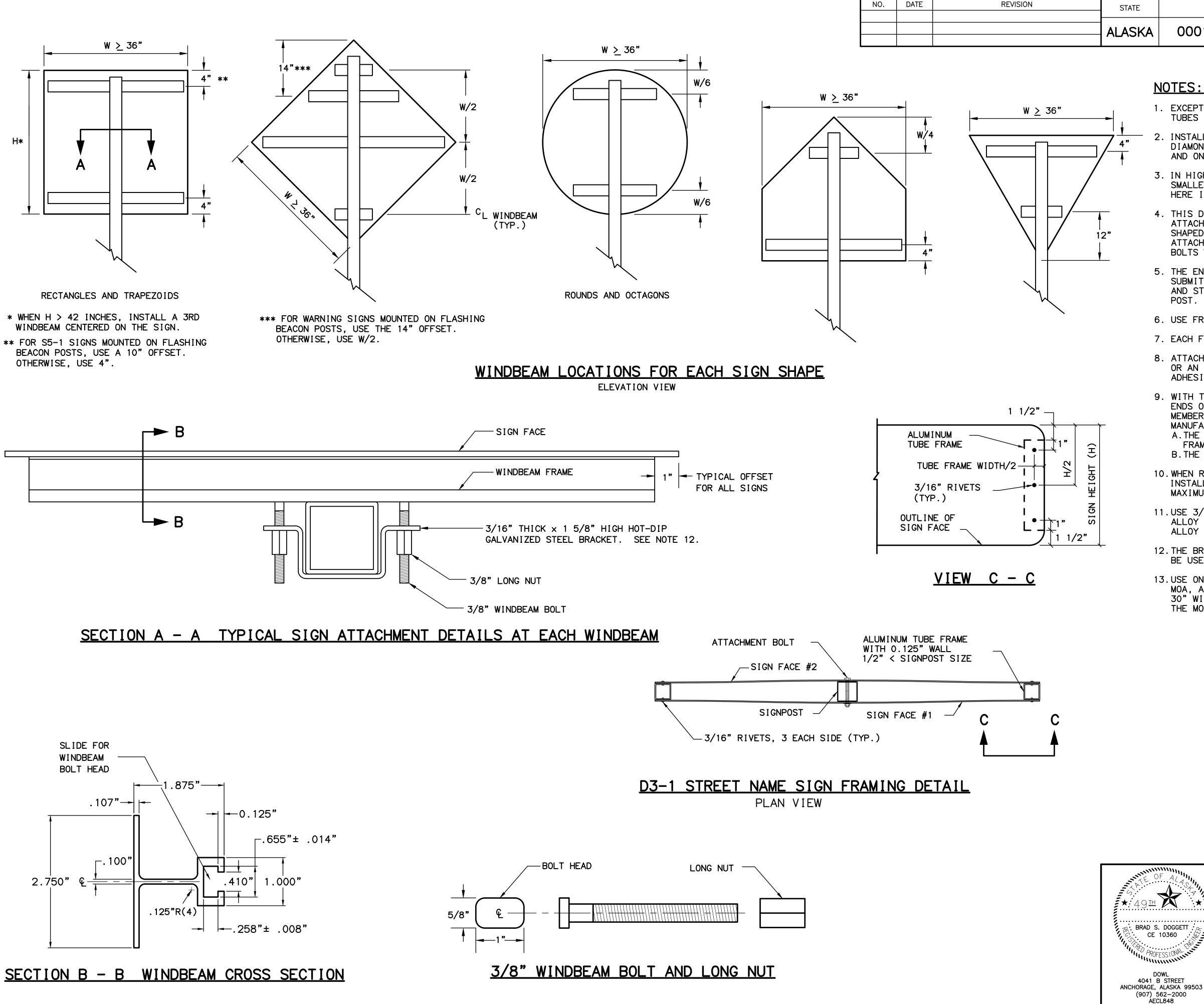


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

SIGN ATTACHMENT DETAILS

DOWL 4041 B STREET ANCHORAGE, ALASKA 99503 (907) 562–2000 AECL848



NOTES:

1. EXCEPT FOR POLES AND MAST ARMS, ONLY USE SQUARE STEEL TUBES TO SUPPORT SIGNS MOUNTED ON SINGLE POSTS.

PROJECT DESIGNATION

0001(344)/Z581970000

TOTAL SHEETS

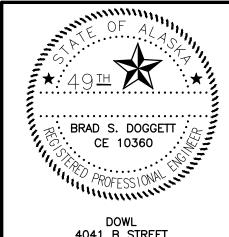
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2017

H9

- 2. INSTALL WINDBEAM OR ZEE SHAPED FRAMING MEMBERS ON DIAMOND SHAPED SIGNS 36 INCHES AND LONGER ON A SIDE AND ON OTHER SIGNS 36 INCHES WIDE AND WIDER.
- 3. IN HIGH WIND AREAS, THE PLANS MAY REQUIRE SIGNS SMALLER THAN THOSE LISTED IN NOTE 2 BE FRAMED AS SHOWN HERE IN.
- 4. THIS DRAWING DEPICTS THE WINDBEAM FRAMING AND ATTACHMENT SYSTEM. ATTACH SIGNS FRAMED WITH ZEE SHAPED FRAMING ACCORDING TO REGIONAL DRAWING "SIGN ATTACHMENT DETAILS", USING "U" SHAPED BRACKETS AND TWO BOLTS WITH NUTS.
- 5. THE ENGINEER MAY APPROVE OTHER FRAMING MEMBERS. SUBMIT DOCUMENTS THAT DETAIL THE FRAME'S CROSS SECTION AND STRENGTH, AND METHOD OF ATTACHING THE FRAME TO A
- 6. USE FRAMING MEMBERS MADE FROM ALUMINUM ALLOY 6061-T6.
- 7. EACH FRAMING MEMBER SHALL BE ONE CONTINUOUS PIECE.
- 8. ATTACH FRAMING MEMBERS TO THE SIGN PANELS WITH RIVETS OR AN ENGINEER APPROVED, DOUBLE SIDED, HIGH STRENGTH, ADHESIVE TAPE.
- 9. WITH THE ADHESIVE TAPE, INSTALL TWO RIVETS IN BOTH ENDS OF EACH FRAMING MEMBER, AND ATTACH THE FRAMING MEMBERS TO THE SIGN PANELS ACCORDING TO THE TAPE MANUFACTURER'S WRITTEN INSTRUCTIONS, INCLUDING: A. THE CLEANING AND HANDLING OF THE SIGN PANELS AND FRAMING MEMBERS. B. THE APPLICATION OF THE ADHESIVE TAPE.
- 10. WHEN RIVETS ARE USED TO ATTACH FRAMING MEMBERS, INSTALL 2 RIVETS IN EACH END AND THE BALANCE ON 8" MAXIMUM CENTERS.
- 11. USE 3/16" DIAMETER RIVETS CONFORMING TO ALUMINUM ALLOY 6061-T6 FOR COLD DRIVEN RIVETS, OR ALUMINUM ALLOY 6061-T43 FOR HOT DRIVEN RIVETS.
- 12. THE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
- 13. USE ONE 2.5" P.T. FOR ALL STOP SIGNS WITHIN THE MOA, AND ALL POSTS WITH A SINGLE SIGN PANEL THAT ARE 30" WIDE OR LESS. ALL OTHER STOP SIGN POSTS OUTSIDE THE MOA SHALL BE ON A 3" TUBE.

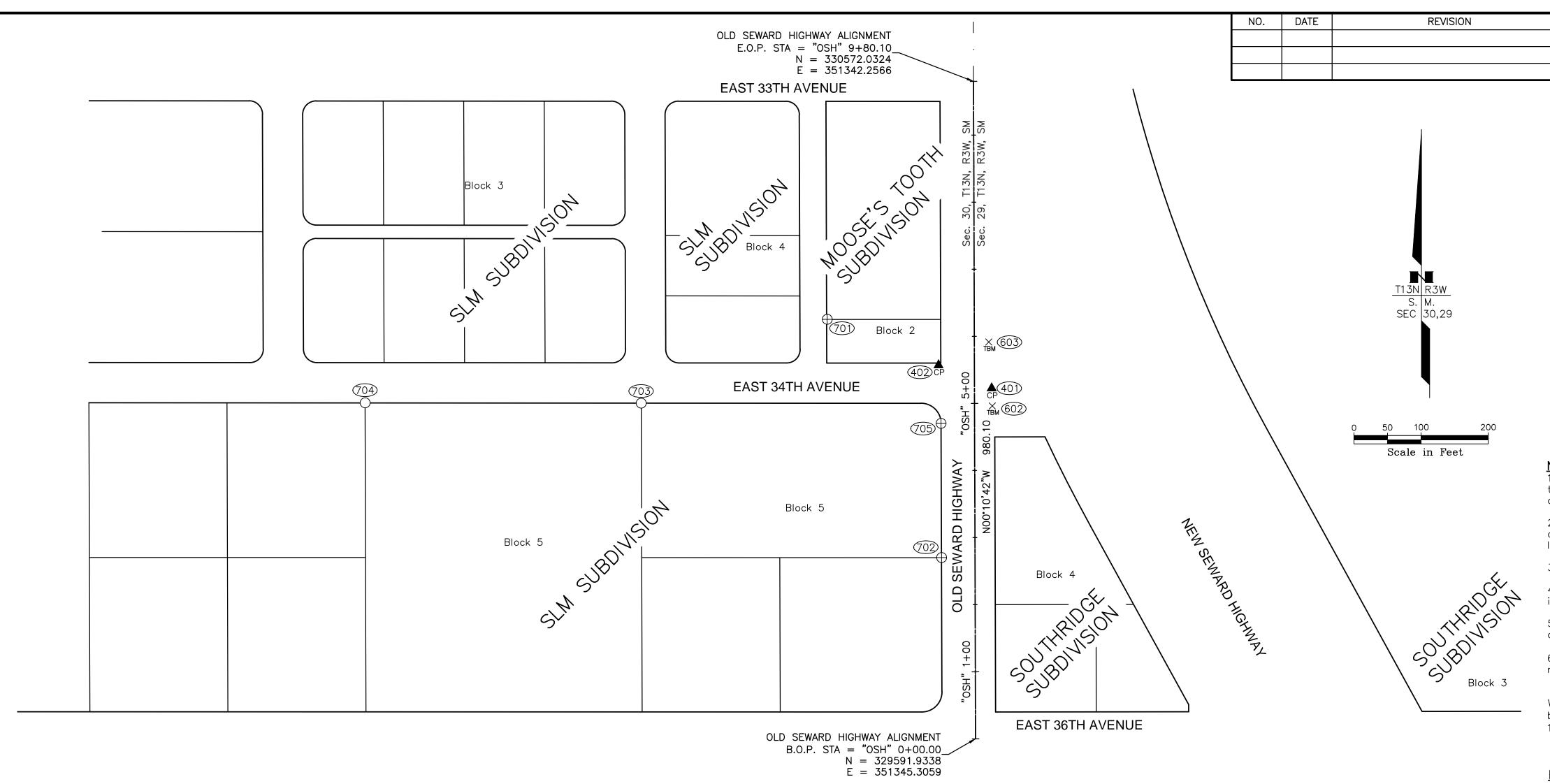
THIS SHEET SUPERSEDES ONLY: THE LIGHT SIGN FRAMING DETAILS AND SIGN POST SPACING NOTE 2.B. ON STD. DWG. S-00.11, AND ENTIRELY REPLACES STD. DWG. S-01.00



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HSIP: ANCHORAGE AREA

SAFETY IMPROVEMENTS

LIGHT SIGN FRAMING AND ATTACHMENT DETAILS



	HORIZONTAL AND VERTICAL CONTROL											
			NAD83(92) GEODE	TIC COORDINATES	LOCAL COO	RDINATES	ELLIPSOID					
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	HEIGHT	ELEVATION	DESCRIPTION			
401	"OSH" 5+22.80	25.53 RT	61° 11' 22.14127" N	149° 52' 04.83211" W	330114.8128	351369.2092	139.50	110.91	Set Rbr: CP			
402	"OSH" 5+57.49	53.53 LT	61°11′22.48196″N	149° 52' 06.44573" W	330149.2524	351290.0449	138.86	110.28	Set Rbr: CP			

	RECOVERED MONUMENTS											
			NAD83(92) GEODE	ETIC COORDINATES	LOCAL COC	ORDINATES						
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	DESCRIPTION					
702	"OSH" 2+70.36	49.81 LT	61° 11' 19.65469" N	149° 52' 06.36342" W	329862.1401	351294.6573	Fd Almon[5202-S]: ROW/SE Cor L5A Blk 5 SLM Subd					
705	"OSH" 4+70.41	50.00 LT	61° 11' 21.62455" N	149° 52' 06.37183" W	330062.1865	351293.8426	Fd Almon[5202-S]: ROW/PC NE Cor L5A Blk 5 SLM Subc					
703	"OSH" 5+01.98	496.82 LT	61° 11' 21.93050" N	149° 52' 15.48810" W	330092.3665	350846.9286	Fd Rbr: ROW/NW Cor L5A Blk 5 SLM Subd					
704	"OSH" 5+03.64	908.44 LT	61° 11' 21.94211" N	149° 52' 23.88574" W	330092.7400	350435.2999	Fd AC: ROW/NW Cor L3B Blk 5 SLM Subd					
701	"OSH" 6+25.99	219.16 LT	61° 11' 23.15466" N	149° 52' 09.82647" W	330217.2347	351124.1960	Fd Almon[5202-S]: ROW/SW Cor L1 Mooses Tooth Subd					

						VERTICAL	CONTROL	
			NAD83(92) GEODE	TIC COORDINATES	LOCAL CO	ORDINATES		
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	ELEVATION	DESCRIPTION
602	"OSH" 4+96.18	26.43 RT	61° 11' 21.88" N	149° 52' 04.81" W	330088	351370	110.97	Set X in Bolt: Chiseled X in top of North LP base bolt/SE cor of 34th & Old Seward Hwy
603	"OSH" 5+91.56	21.50 RT	61° 11' 22.82" N	149° 52' 04.92" W	330184	351365	110.57	Set X in Bolt: Chiseled X in top of North LP base bolt/SE cor in 34th & Old Seward Hwy

Right-Of-Way Property Line Interior Property Line Section Line 1+00 2+00 Project Alignment & Stationing

PROJECT DESIGNATION

0001(344)/Z581970000

LEGEND

SHEET NO.

2017 A:A1

Property Miscellaneous Corner

Primary Property Monument

Temporary Bench Mark

Survey Point Number

Control Point

TOTAL SHEETS

A:A1

NOTES

STATE

ALASKA

1. The information shown hereon is based on a field survey performed by DOWL in September through November 2006, and in October 2013. Background information depicted is shown for orientation purposes only and should not be used for any other purpose.

2. This survey was performed to provide survey control, adjoining boundary information, and design level topographic and feature mapping for the 2014 HSIP Anchorage Area Safety Improvements.

- 3. All dimensions and coordinates shown are in U.S. Survey Feet unless otherwise noted.
- 4. Title research was not performed as part of this survey, a thorough examination of land title is needed to ensure all easements, restrictions and rights are depicted.

5. Project control coordinates shown on this sheet were established by using least—squares adjusted forward and reverse angles collected by total station as well as static GPS.

6. It is the Contractor's responsibility to work around all monuments without disturbing the monument or case.

Whether listed or not, ALL monuments or property markers, corners, or accessories, which will be disturbed or buried, shall be referenced and re—established in their original position (A.S. 19.10.260) and recorded (A.S. 34.65.0440).

HORIZONTAL CONTROL STATEMENT

Coordinate System

This project is located entirely within the Anchorage Bowl 2000 adjustment, a local surface grid coordinate system expressed in U.S. Survey feet units developed by the Alaska Department of Transportation.

sis of Coordinates:

The Basis of Coordinates is NGS Station O'Malley, located near the intersection of the New Seward Highway and O'Malley Road. Said station has Anchorage Bowl 2000 coordinates of 303939.2310 N, 353362.5446 E. U.S. Survey Feet.

Basis of Bearings:

The Basis of Bearings is a local plane bearing between NGS Station O'Malley and NGS Station Loop 2 USE RM 3 1964. NGS Station Loop 2 USE RM 3 1964 bears N 01°43'26.4"E a distance of 49488.4476 feet from NGS Station O'Malley. NGS Station Loop 2 USE RM 3 1964 has Anchorage Bowl 2000 coordinates of 353405.2778 N, 354851.3982 E. U.S. Survey Feet.

<u>Translation Parameters:</u>

To convert the local coordinates to NAD83 (92) State Plane coordinates expressed in U.S. Survey Feet, translate using +2296868.6878 N usf, +1312517.4904 E usf, and scale using

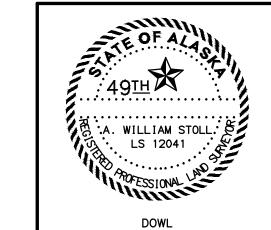
VERTICAL CONTROL STATEMENT

Elevations are based on the Municipality of Anchorage (MOA) Vertical Control Network. The datum is Mean Sea Level (MSL) GAAB 1972 Adjust and the unit of measure is U.S. Survey Feet.

The basis of elevations is MOA Bench Mark "TNH 10", a brass cap set vertical in the east wall of the ACS Building approx 460 feet west of the intersection of Telephone Ave and Old Seward Highway, having a value of 118.04 feet above Mean Sea Level.

A Leica DNA10 digital level was used for all leveling on this project. The elevations were computed in Leica Digilev software using a length weighted adjustment. All of the level loops closed within Third—Order tolerances per Federal Geodetic Control Committee Standards and Specifications for Geodetic Control Networks.

All elevations on control points and benchmarks need to be field verified before they are used.

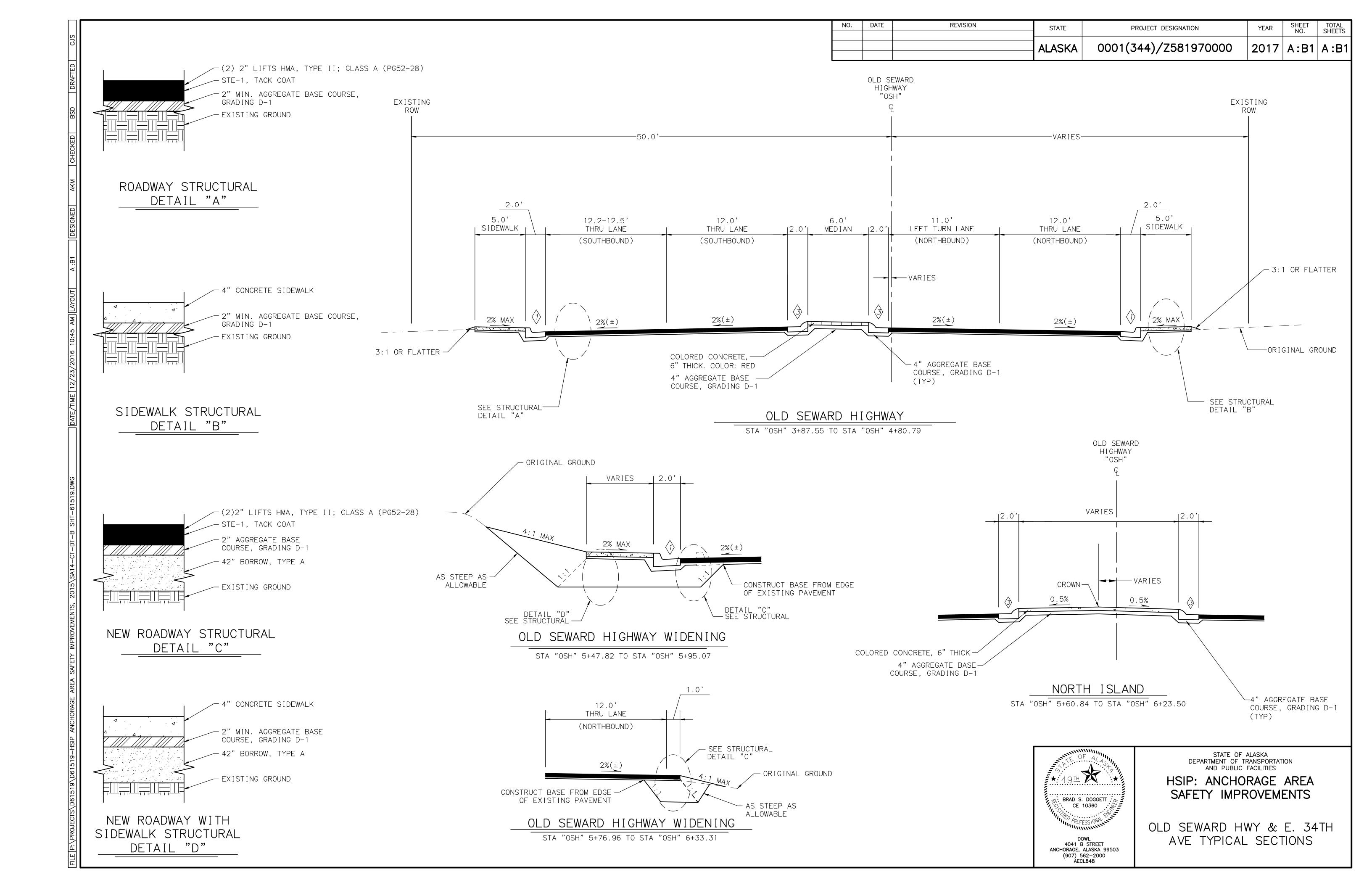


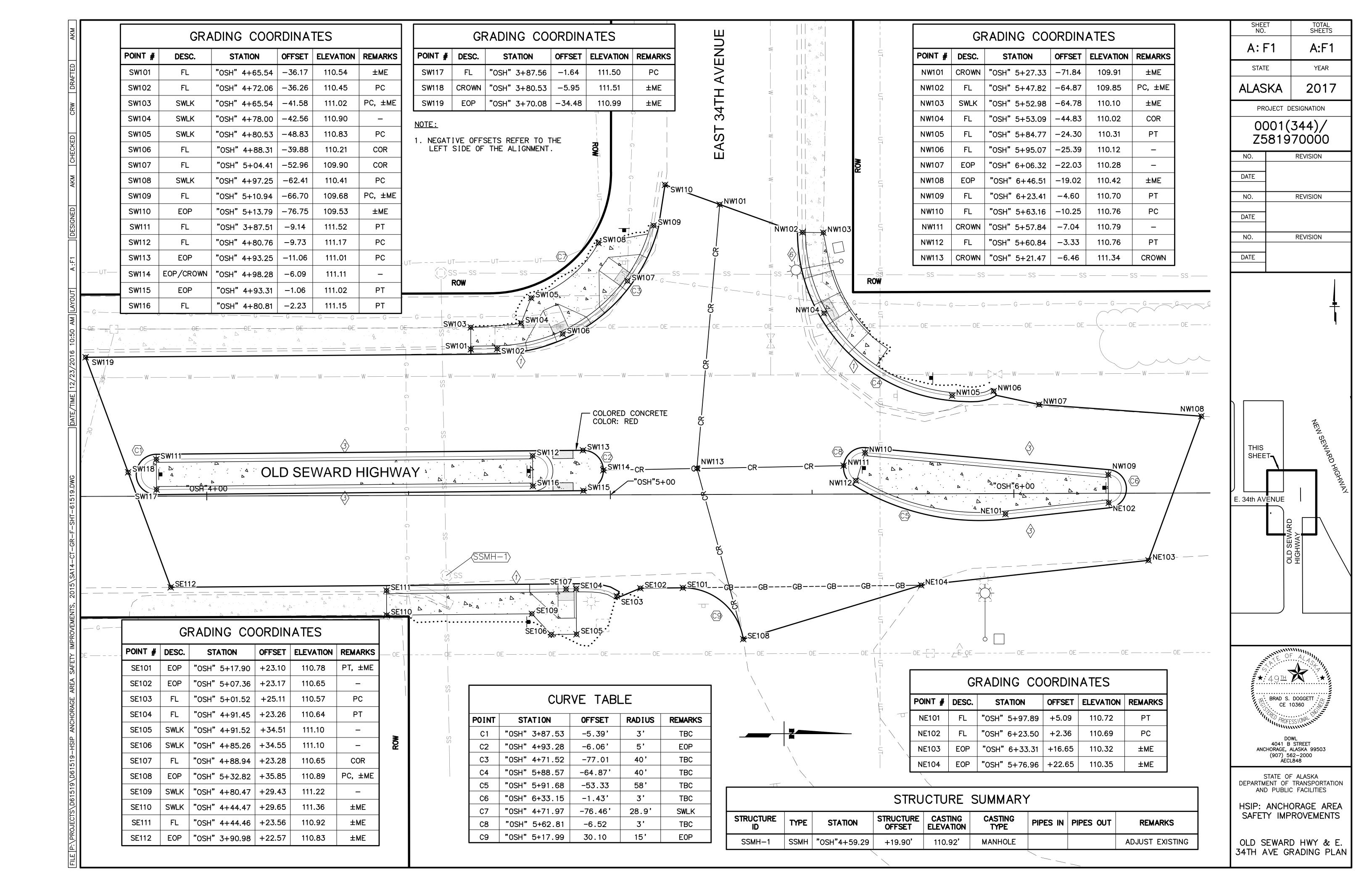
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

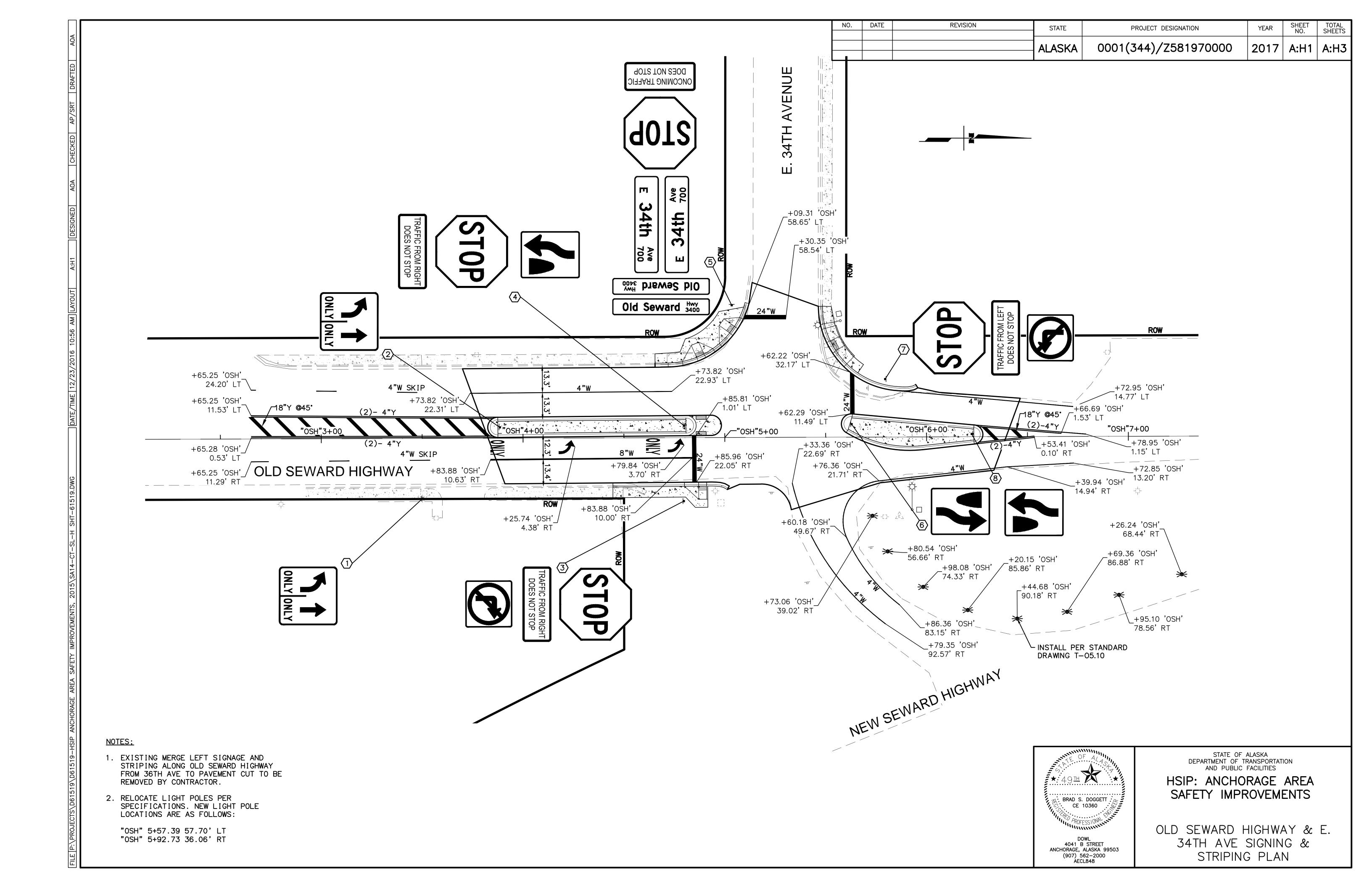
HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

OLD SEWARD HWY & 34TH AVE SURVEY CONTROL

DOWL 4041 B STREET ANCHORAGE, ALASKA 99503 (907) 562–2000 AECL848

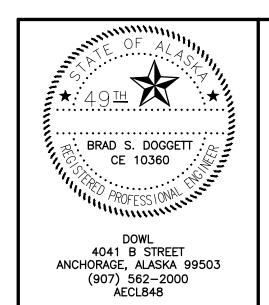






NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	A:H2	A:H3

	POST		CI				SIZE	E (IN)	AREA	SIGN	POSTS	FRA	MED	
SHEET	POST NO.	STATION	CL OFFSET	CL REF	TYPE	LEGEND	WIDTH	HEIGHT	(FT2)	FACES	NO., SIZE, & TYPE	YES	NO	REMARKS
A:H1	1	"OSH" 3+50.06	29.82'	RT	R3-108B	T T ONLY ONLY	30	30	6.25	S	-		X	MOUNT ON EXISTING LIGHT POLE
A:H1	2	"OSH" 3+88.53	5.40'	LT	R3-108B	ONLY ONLY	30	30	6.25	S	1-2.5" X 2.5" PT		X	
					R1-1	ST0P	36	36	9.00	S		X		POST HEIGHT TO BOTTOM OF TOP SIGN IS 8'.
A:H1	3	"OSH" 4+79.61	31.43'	RT	W4-4AP	TRAFFIC FROM RIGHT DOES NOT STOP	36	18	4.50	S	1-2.5" X 2.5" PT	X		
					R3-1		24	24	4.0	S			X	
					R1-1	ST0P	36	36	9.00	S		X		
A:H1	4	"OSH" 4+79.78	5.97'	LT	W4-4AP	TRAFFIC FROM RIGHT DOES NOT STOP	36	18	4.50	S	1-3.0" T	X		
					R4-7		24	30	5.0	N			X	
					D3-101	Old Seward Hwy 3400	48	8	5.33	E/W		X		2 SIGNS BACK TO BACK; POST HEIGHT TO BOTTOM OF TOP SIGN IS 9'
					D3-101	E 34th Ave 700	42	12	7.0	N/S		X		2 SIGNS BACK TO BACK
A:H1	5	"OSH" 5+03.62	65.55'	LT	R1-1	ST0P	36	36	9.00	w	1-3.0" T	X		
					W4-4BP	ONCOMING TRAFFIC DOES NOT STOP	36	18	4.50	w		X		
A:H1	6	"OSH" 5+62.81	6.52'	LT	R4-7		24	30	5.0	S	1-2.5" X 2.5" PT		X	

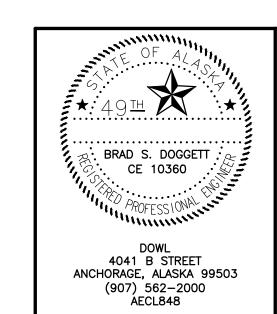


HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

OLD SEWARD HWY & E. 34TH AVE SIGN SUMMARY TABLE

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
						NO.	SHEETS
			ALASKA	0001(344)/Z581970000	2017	A:H3	A:H3
				0001(011)// 20010/0000	2017	/ 1.110	/ 10

	POST		CI				SIZE	(IN)			POSTS	THICKNESS (in)		
SHEET	POST NO.	STATION	CL OFFSET	CL REF	TYPE	LEGEND	WIDTH	HEIGHT	(FT2)	SIGN FACES	NO., SIZE, & TYPE	YES	NO	REMARKS
			1	ı			T	1				ı	.	
					R1-1	ST0P	36	36	9.00	N		X		POST HEIGHT TO BOTTOM OF TOP SIGN IS 8'.
A:H1	7	"OSH" 5+79.57	28.72'	LT	W4-4AP	TRAFFIC FROM LEFT DOES NOT STOP	36	18	4.50	N	1-3.0 " T	x		
					R3-2		30	30	6.25	N			X	
A:H1	8	"0SH" 6+22.40	1.36'	LT	R4-7		24	30	5.0	Ν	1-2.5" X 2.5" PT		X	

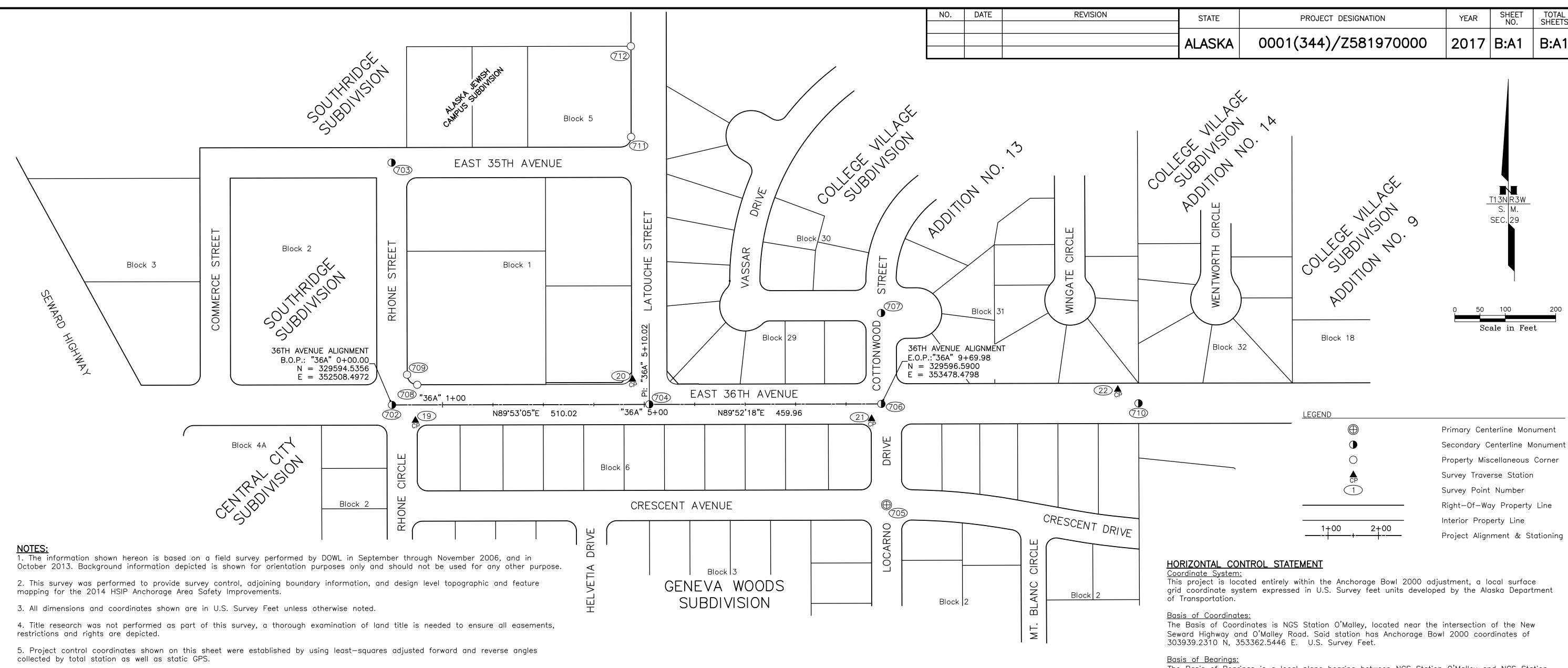


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA
SAFETY IMPROVEMENTS

OLD SEWARD HWY & E. 34TH AVE SIGN SUMMARY TABLE

9-HSIP ANCHORAGE AREA SAFETY IMPROVEMENTS, 2015\SA14-CT-SL-H SHT-61519.DWG



6. It is the Contractor's responsibility to work around all monuments without disturbing the monument or case.

Whether listed or not, ALL monuments or property markers, corners, or accessories, which will be disturbed or buried, shall be referenced and re-established in their original position (A.S. 19.10.260) and recorded (A.S. 34.65.0440).

	HORIZONTAL AND VERTICAL CONTROL												
			NAD83(92) GEOD	ETIC COORDINATES	LOCAL CO	ORDINATES	ELLIPSOID						
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	HEIGHT	ELEVATION	DESCRIPTION				
19	"36A" 0+46.04	30.75 RT	61° 11' 16.69210" N	149° 51' 40.67279" W	329563.8813	352554.5961	140.66	111.52	Fd BC/Conc[6714-S]: CP HSIP-19				
20	"36A" 4+76.65	49.80 LT	61° 11' 17.48473" N	149° 51' 31.88792" W	329645.2972	352985.0492	142.15	112.83	Fd BC/Conc[6714-S]: CP HSIP-20				
21	"36A" 9+50.30	29.30 RT	61° 11' 16.70603" N	149° 51' 22.22555" W	329567.2493	353458.8609	154.03	124.70	Fd BC/Conc[6714-S]: CP HSIP-21				
22	N/A	N/A	61° 11' 17.26724" N	149° 51' 12.26801" W	329625.3258	353946.8432	156.04	126.68	Fd BC/Conc[6714-S]: CP HSIP-22				

				RECO	OVERED MONUMENTS		
			NAD83(92) GEOD	ETIC COORDINATES	LOCAL COC	ORDINATES	
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	DESCRIPTION
702	"36A" 0+00	0.00	61° 11′ 16.99492" N	149° 51' 41.61188" W	329594.5356	352508.4972	Fd Rbr: SI E 36th & Rhone
703	"36A" 0+00.09	480.22 LT	61° 11′ 21.72368" N	149° 51' 41.60892" W	330074.7593	352507.6257	Fd Rbr: SI E 35th & Rhone
709	"36A" 0+29.97	59.95 LT	61° 11' 17.58519" N	149° 51' 41.00035" W	329654.5436	352538.3472	Fd BC/Conc[6714-S]: ROW/PC SW Cor L5B Blk 1 Southridge Subd
708	"36A" 0+50.00	39.92 LT	61° 11' 17.38792" N	149° 51' 40.59172" W	329634.5528	352558.4199	Fd BP/Conc[6714-S]: ROW/PC SW Cor L5B Blk 1 Southridge Subd
711	"36A" 4+74.95	530.17 LT	61° 11′ 22.21488″ N	149° 51' 31.92130" W	330125.6578	352982.3762	Fd IronPipe: ROW/PC SE Cor L2 Blk 5 Southridge Subd Addition 1
712	"36A" 4+74.96	709.92 LT	61° 11′ 23.98491" N	149° 51' 31.92047" W	330305.4113	352982.0289	Fd IronPipe: ROW/PC NE Cor L2 Blk 5 Southridge Subd Addition 1
704	"36A" 5+10.02	0.00	61° 11′ 16.99427" N	149° 51' 31.20735" W	329595.5608	353018.5177	Fd Rbr: SI E 36th & LaTouche
707	"36A" 9+69.95	180.11 LT	61° 11' 18.76806" N	149° 51' 21.82476" W	329776.6988	353478.0465	Fd Rbr: SI Cottonwood & unknown cir
706	"36A" 9+69.98	0.00	61° 11' 16.99452" N	149° 51' 21.82401" W	329596.5900	353478.4798	Fd AC: SI E 36th & Cottonwood
705	N/A	N/A	61° 11' 15.02383" N	149° 51' 21.62347" W	329396.4802	353488.7504	Fd AM/Box[LS7338]: SI Crescent & Locarno
710	N/A	N/A	61° 11' 16.99504" N	149° 51' 11.42449" W	329597.7758	353988.2540	Fd Rbr: E 36th

This project is located entirely within the Anchorage Bowl 2000 adjustment, a local surface grid coordinate system expressed in U.S. Survey feet units developed by the Alaska Department

The Basis of Coordinates is NGS Station O'Malley, located near the intersection of the New Seward Highway and O'Malley Road. Said station has Anchorage Bowl 2000 coordinates of

The Basis of Bearings is a local plane bearing between NGS Station O'Malley and NGS Station Loop 2 USE RM 3 1964. NGS Station Loop 2 USE RM 3 1964 bears N 01°43'26.4"E a distance of 49488.4476 feet from NGS Station O'Malley. NGS Station Loop 2 USE RM 3 1964 has Anchorage Bowl 2000 coordinates of 353405.2778 N, 354851.3982 E. U.S. Survey Feet.

<u>Translation Parameters:</u>

To convert the local coordinates to NAD83 (92) State Plane coordinates expressed in U.S. Survey Feet, translate using +2296868.6878 N usf, +1312517.4904 E usf, and scale using

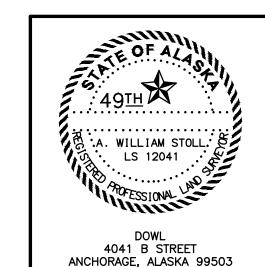
VERTICAL CONTROL STATEMENT

Elevations are based on the Municipality of Anchorage (MOA) Vertical Control Network. The datum is Mean Sea Level (MSL) GAAB 1972 Adjust and the unit of measure is U.S. Survey

The basis of elevations is MOA Bench Mark "GAAB-70", a brass cap set vertically in a pillar, located approximately 245 feet northwest of the intersection of E. 36th Ave. and LaTouche St. on the North side of the Anchorage Medical & Dental Center, having a value of 113.77 feet above Mean Sea Level.

A Leica DNA10 digital level was used for all leveling on this project. The elevations were computed in Leica Digilev software using a length weighted adjustment. All of the level loops closed within Third—Order tolerances per Federal Geodetic Control Committee Standards and Specifications for Geodetic Control Networks.

All elevations on control points and benchmarks need to be field verified before they are used.



(907) 562-2000

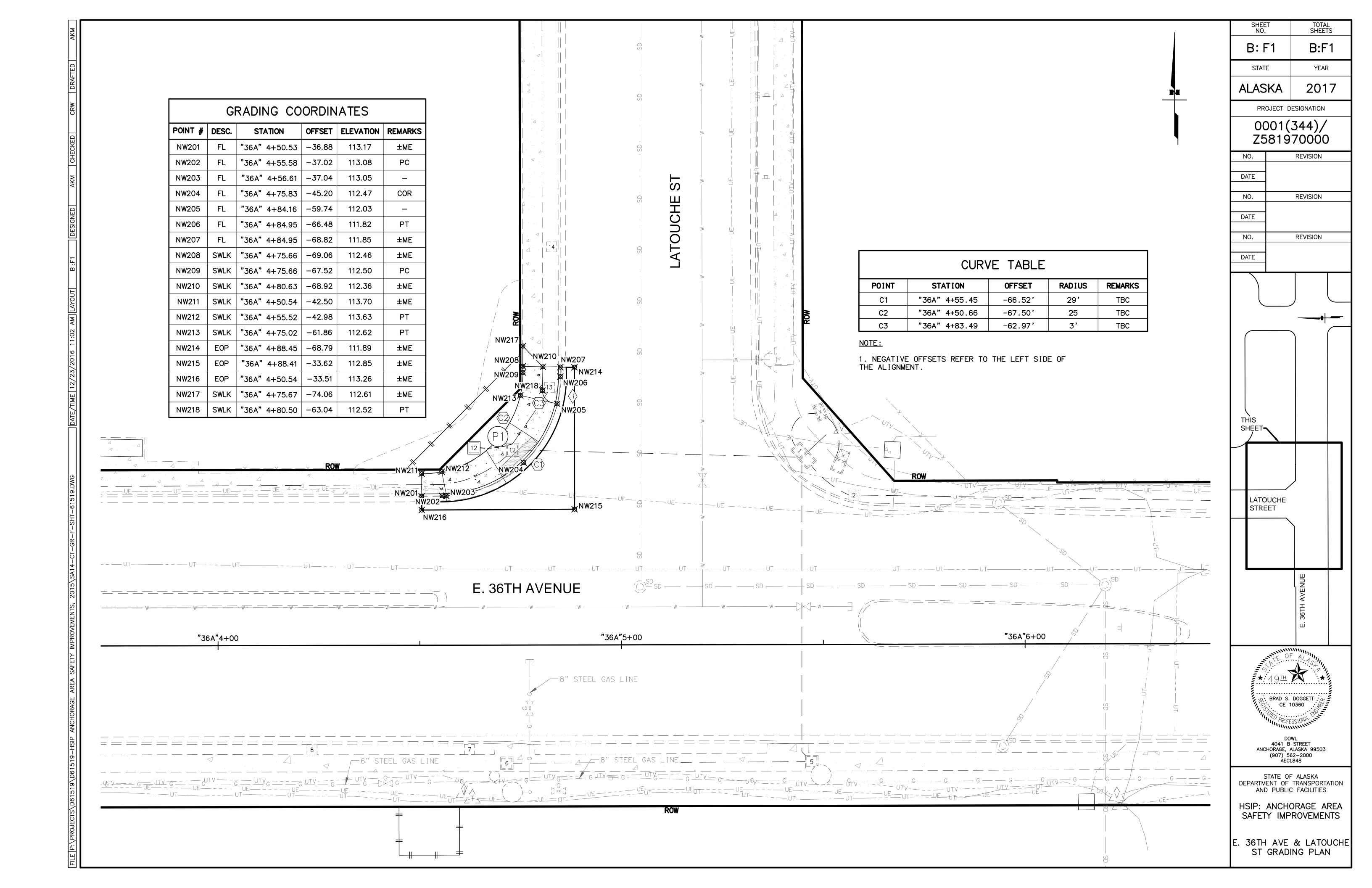
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

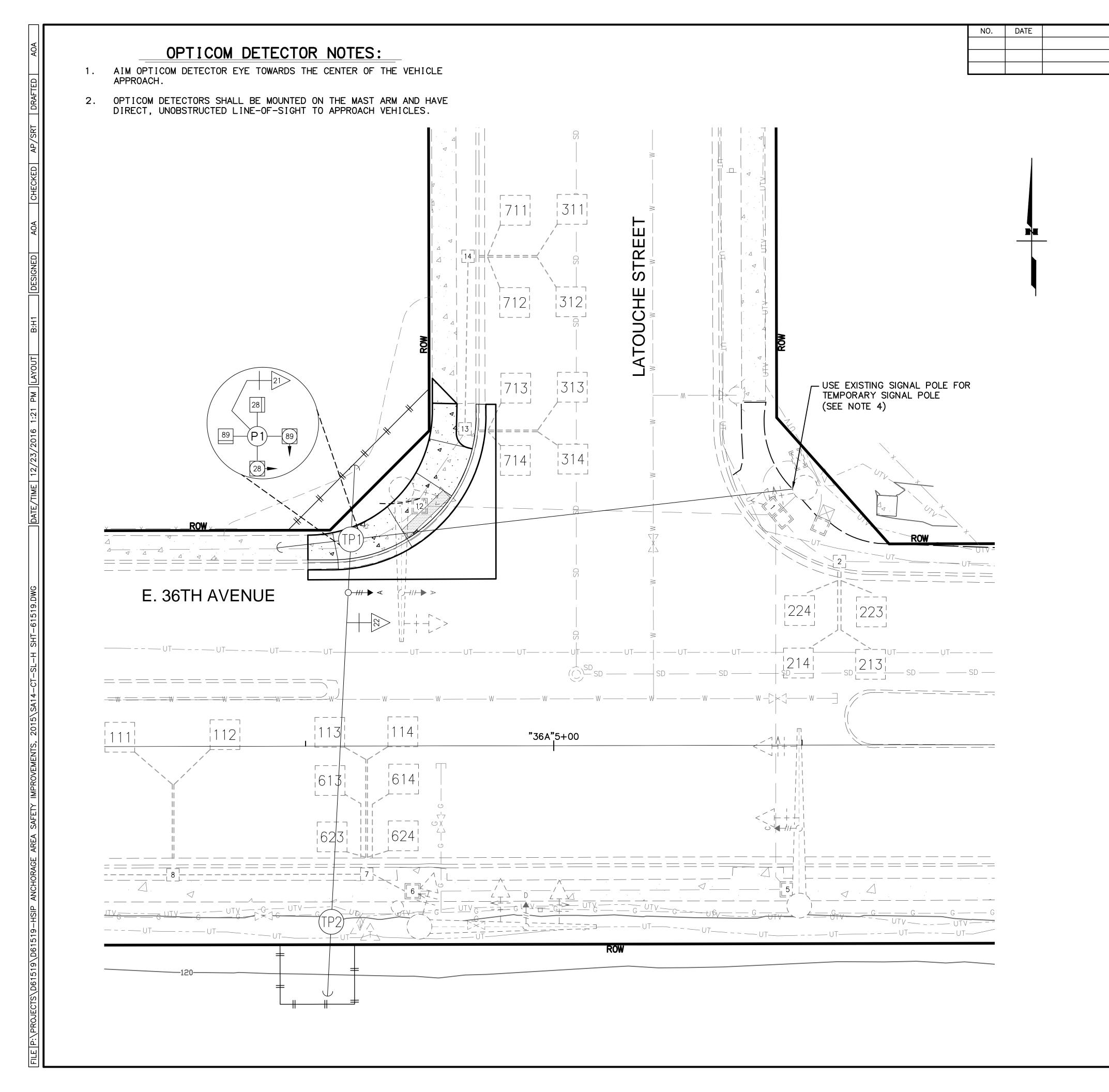
TOTAL SHEETS

B:A1

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

E. 36TH AVE & LATOUCHE ST SURVEY CONTROL





TEMPORARY SIGNAL NOTES

ALASKA

REVISION

1. SIGNALS AND SIGNS IN TEMPORARY SIGNAL SYSTEM SHALL MATCH EXISTING CONFIGURATION.

PROJECT DESIGNATION

0001(344)/Z581970000

SHEET NO.

2017 | B:H1 | B:H4

TOTAL SHEETS

- 2. AIM OPTICOM DETECTOR EYE TOWARDS THE CENTER OF THE VEHICLE APPROACH.
- 3. OPTICOM DETECTORS SHALL BE MOUNTED ON THE MAST ARM AND HAVE DIRECT, UNOBSTRUCTED LINE-OF-SIGHT TO APPROACH VEHICLES.
- 4. CONTRACTOR TO USE EXISTING SIGNAL POLE FOR TEMPORARY SIGNAL SYSTEM POLE. CONTRACTOR WILL NEED TO SCHEDULE WITH MOA SIGNAL ELECTRONICS FOR THE TEMPORARY DEACTIVATION OF THE SIGNAL EQUIPMENT LOCATED ON THE POLE. PULL SIGNAL AND LIGHTING CABLES OUT OF POLE, BACK TO THE ADJACENT TYPE 3 J-BOX NUMBER 1. REMOVE EXISTING GROUT FROM POLE'S SLIP BASE PLATE. RAISE POLE AND REMOVE THE KEEPER PLATE AND WASHERS FROM BETWEEN THE SLIP BASE AND THE POLE BASE PLATE. REINSTALL POLE (INCLUDING LIGHTING FIXTURE) ON SLIP BASE PLATE. RE-TERMINATE SIGNAL AND LIGHTING CABLES FOR REACTIVATION. PROVIDE TEMPORARY MATERIAL TO SEAL OFF GAP BETWEEN TOP OF THE CONCRETE FOUNDATION AND BOTTOM OF THE SLIP BASE PLATE.

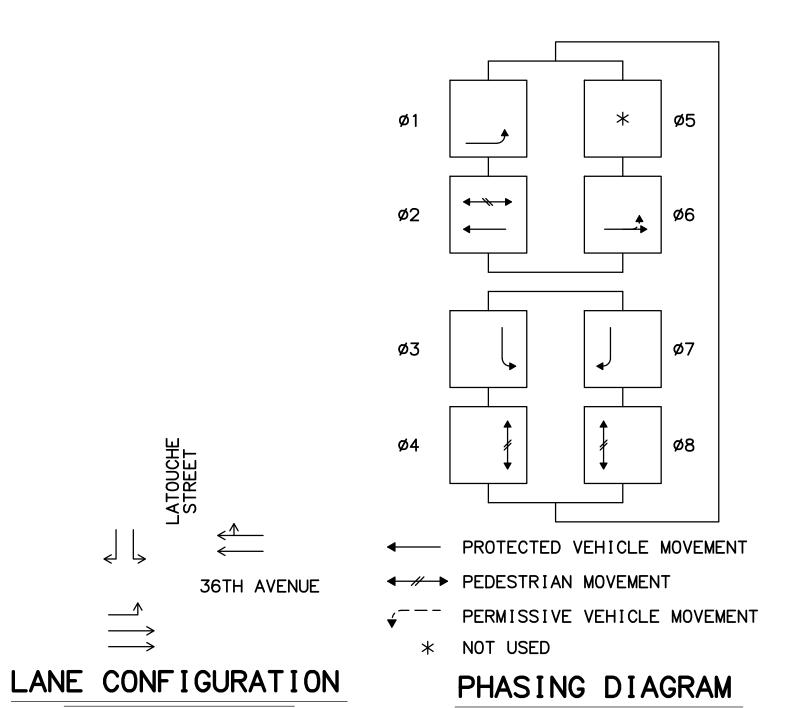
WHEN TEMPORARY SIGNAL SYSTEM IS BEING REMOVED. CONTRACTOR WILL NEED TO SCHEDULE WITH MOA SIGNAL ELECTRONICS FOR THE TEMPORARY DEACTIVATION OF THE SIGNAL EQUIPMENT LOCATED ON THE POLE. PULL SIGNAL AND LIGHTING CABLES OUT OF POLE, BACK TO ADJACENT TYPE 3 J-BOX NUMBER 1. RAISE POLE AND RE-INSTALL THE KEEPER PLATE AND WASHERS THAT WERE REMOVED FROM BETWEEN THE SLIP BASE AND THE POLE BASE PLATE. REINSTALL POLE (INCLUDING LIGHTING FIXTURE) ON SLIP BASE PLATE. RE-TERMINATE SIGNAL AND LIGHTING CABLES FOR REACTIVATION. CONTRACTOR SHALL GROUT GAP BETWEEN TOP OF THE CONCRETE FOUNDATION AND BOTTOM OF THE SLIP BASE PLATE. TIGHTEN BASE BOLTS TO 150 FT. LBS. SEE NOTE 5 FOR GROUTING REQUIREMENTS.

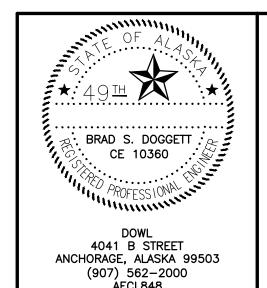
5. GROUT SHALL CONFORM TO THE FOLLOWING:

THE CONTRACTOR SHALL USE A PREMIXED GROUT HAVING A MINIMUM TWENTY-EIGHT (28) DAY COMPRESSIVE STRENGTH OF FOUR THOUSAND POUNDS PER SQUARE INCH (4000 PSI). PROPRIETARY GROUT MIXTURES SHALL BE UTILIZED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER.

CONCRETE AREAS TO BE IN CONTACT WITH THE GROUT SHALL BE CLEANED OF ALL LOOSE AND FOREIGN MATTER THAT WOULD IN ANY WAY PREVENT BOND BETWEEN THE MORTAR AND THE CONCRETE SURFACES.

CONTRACTOR SHALL NOT GROUT UNLESS AMBIENT TEMPERATURE WILL REMAIN A MINIMUM TEMPERATURE OF FORTY-FIVE DEGREES FAHRENHEIT (45 F) FOR THREE DAYS AFTER GROUTING. ALL IMPROPERLY CURED OR OTHERWISE DEFECTIVE GROUT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. NO LOAD SHALL BE PLACED ON THE GROUT UNTIL IT HAS SET FOR AT LEAST NINETY-SIX (96) HOURS.

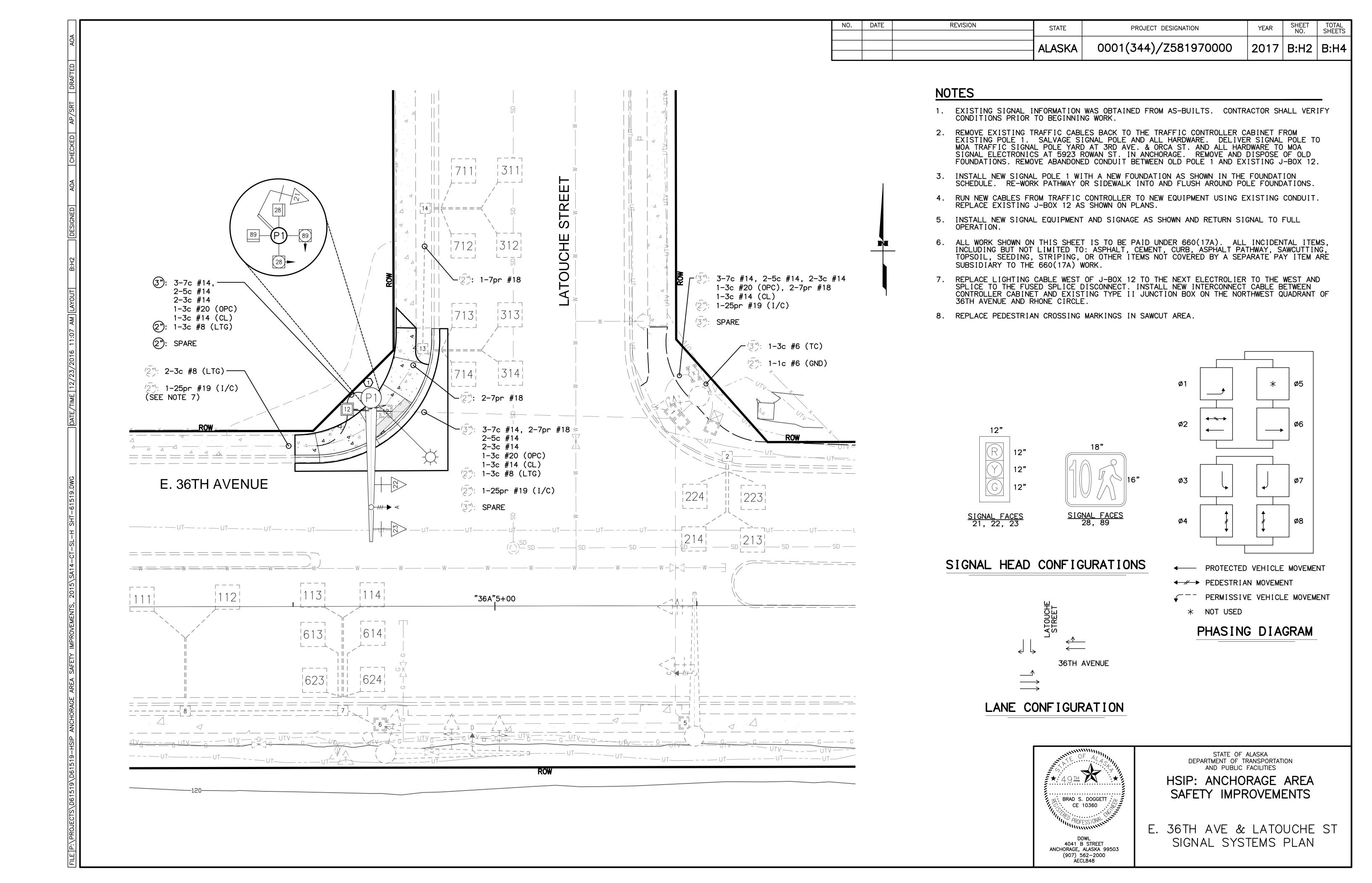


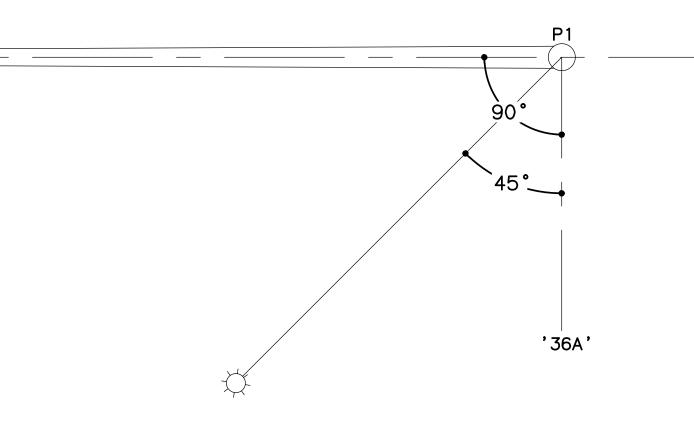


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

E. 36TH AVE & LATOUCHE ST TEMPORARY SIGNAL PLAN





	OPTICOM DETECTOR SCHEDULE								
LOCATION	DETECTOR ID	PHASE CALL	FACING DIRECTION	REMARKS					
SIGNAL POLE 1 MASTARM	A	2	EAST	INSTALL DETECTOR MODEL 721					

ALASKA

REVISION

OPTICOM DETECTOR SCHEDULE										
LOCATION	PHASE CALL	FACING DIRECTION	REMARKS							
SIGNAL POLE 1 MASTARM	A	2	EAST	INSTALL DETECTOR MODEL 721						

STATION ALIGNMENT

"36A" 4+63.52

J-BOX S	SALVAGE SCH	EDULE
J-B0X	STATION ALIGNMENT	OFFSET
12	"36A" 4+73.08	48.31' LT

REMARKS

NEW

2017 B:H3 B:H4

	FOUNDATION SCHEDULE									
DESC	STATION ALIGNMENT	OFFSET	REMARKS							
P1	"36A" 4+69.43	51.68'LT	EXISTING/TO BE REPLACED WITH 42" DIAMETER, 10' DEEP CIDH							

J-BOX SCHEDULE

OFFSET

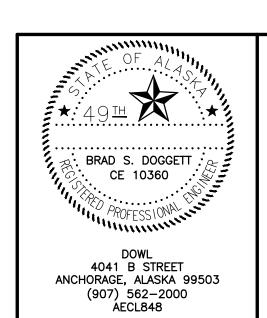
48.87' LT

PROJECT DESIGNATION

0001(344)/Z581970000

POLE SALVAGE SCHEDULE								
POLE	STATION ALIGNMENT	OFFSET						
1	"36A" 4+69.43	51.68' LT						

LUMINAIRE SCHEDULE						
MANUFACTURER	GE OR APPROVED EQUAL					
MODEL	M-400 CUTOFF OR APPROVED EQUAL					
WATTAGE	400					
LIGHT SOURCE	HIGH PRESSURE SODIUM					
VOLTAGE	240					
INITIAL LUMENS	38,416					
BALLAST TYPE	MAG-REG					
PE CONTROL	NONE					
LENS TYPE	FLAT GLASS					
COLOR TEMPERATURE	2100					
COLOR RENDITION INDEX	22					
DISTRIBUTION TYPE	M-C-2					
UL LISTED	YES					

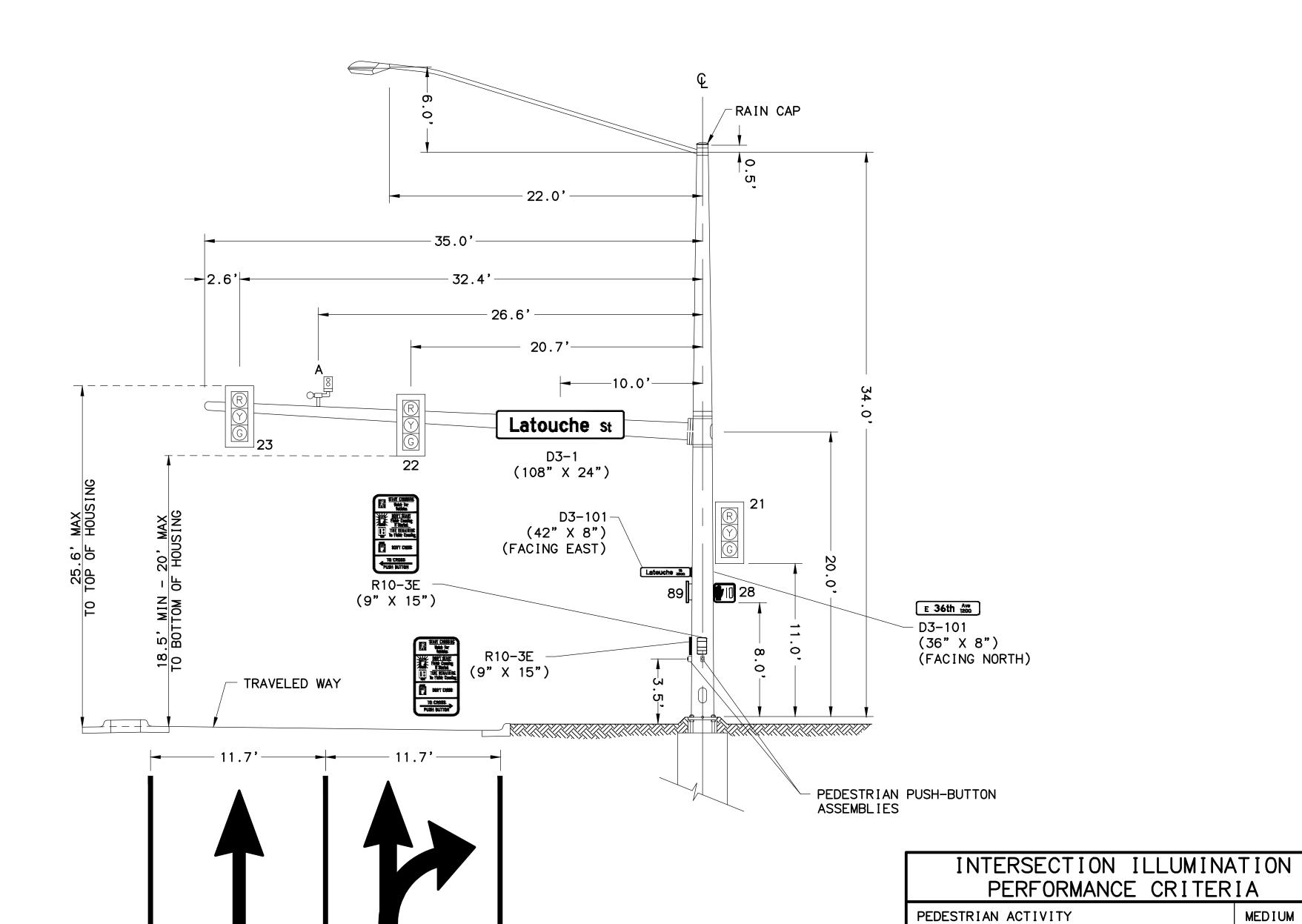


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

E. 36TH AVE & LATOUCHE ST POLE ELEVATIONS

SIGNAL POLE No. 1 RADIAL INDEX



INTERSECTION FUNCTIONAL CLASSIFICATION | MAJOR/MAJOR MINIMUM ILLUMINANCE 2.6 fc MAXIMUM UNIFORMITY (AVG/MIN)

3.0:1 DESIGN ILLUMINANCE 2.6 fc DESIGN UNIFORMITY (AVG/MIN) 2.9:1

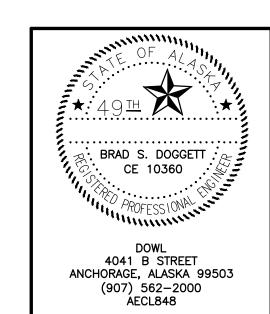
MEDIUM

LOOKING WEST

PROPOSED TRAFFIC SIGNAL POLE NO. 1

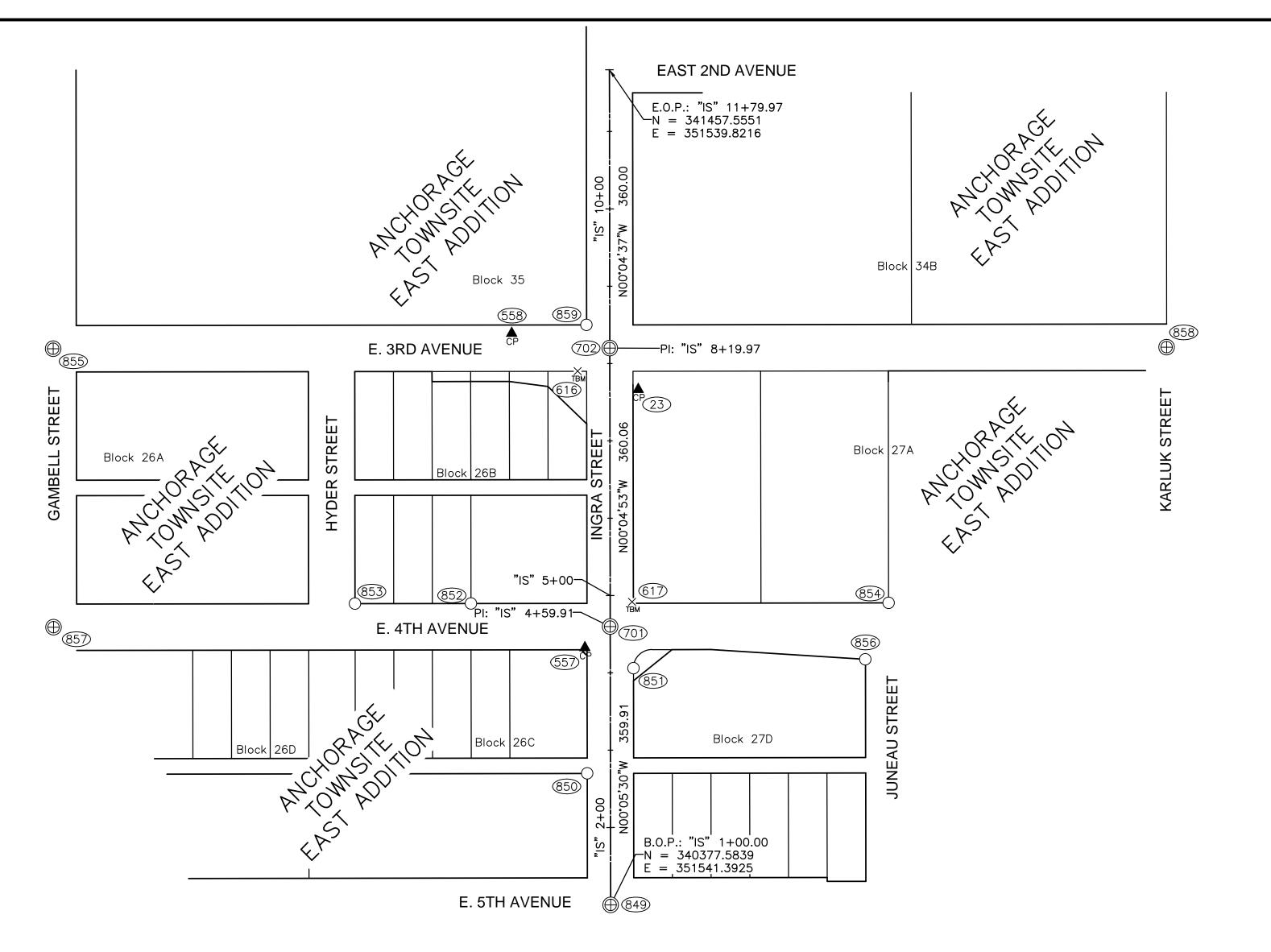
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL	
						NO.	SHEETS	
			ALASKA	0001(344)/Z581970000	2017	B:H4	B:H4	
				2001(011)/ 20010/0000	2017		0.,,,	

SHEET	POST	STATION	CL	CL REF	TYPE	LEGEND -	SIZE	(IN)	AREA	SIGN	POSTS		KNESS (n)	REMARKS
SHEE!	NO.	31711317	OFFSET	OL INE			WIDTH	HEIGHT	(FT2)	FACES	NO., SIZE, & TYPE	YES	NO	
					D3-101	Latouche St 3500	42	8	4.67	E/W		X		2 SIGNS BACK TO BACK
	1				D3-101	E 36th Ave 1200	36	8	4.00	N/S			X 2 SIGNS BACK TO BACK	
					D3-1	Latouche st	108	24	18.00	E		X		
вн3		"36A" 4+69.43	51.68'	LT	R10-3E	SEART COMMINE THE PARTY THE ENABLES THE ENABLES TO CROSS PUSH SUTTON	9	15	0.94	E	SIGNAL POLE X			
					R10-3E	TO CROSS PUSH BUTTON	9	15 0.94 S			x			



HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

E. 36TH AVE & LATOUCHE ST SIGN SUMMARY TABLE



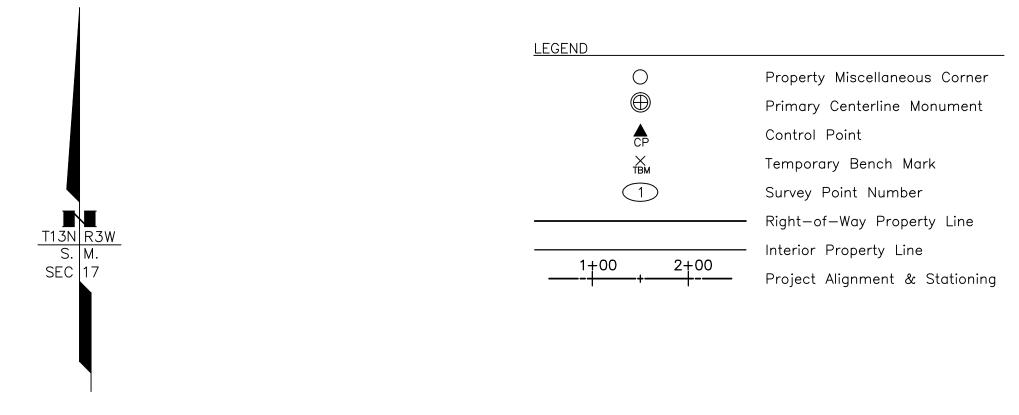
	HORIZONTAL AND VERTICAL CONTROL											
			NAD83(92) GEODI	ETIC COORDINATES	LOCAL CO	ORDINATES	ELLIPSOID					
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	HEIGHT	ELEVATION	DESCRIPTION			
557	"IS" 4+32.80	32.85 LT	61° 13' 06.47200" N	149° 52' 01.56103" W	340710.3354	351508.0102	145.24	116.58	Fd BC[LS6912]: TS SW1			
23	"IS" 7+66.66	36.56 RT	61° 13' 09.75909" N	149° 52' 00.13958" W	341044.2949	351576.9405	136.70	108.04	Fd AC[6714-S]: HSIP-23			
558	"IS" 8+39.47	127.02 LT	61° 13' 10.47715" N	149° 52' 03.47893" W	341116.8846	351413.2636	140.59	111.94	Fd YPC[AKDOT]: CP			

					RECOVERED M	ONUMENTS	
			NAD83(92) GEOD	NAD83(92) GEODETIC COORDINATES LOCAL COORDINATES		ORDINATES	
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	DESCRIPTION
849	"IS" 1+00.00	0.00	61° 13' 03.19475" N	149° 52' 00.89320" W	340377.5839	351541.3925	Fd AM/Bx: SI 5th Ave/Ingra St
850	"IS" 2+70.06	30.00 LT	61° 13' 04.86941" N	149° 52' 01.50421" W	340547.5914	351511.1239	Fd Rbr: ROW/NE Cor L7B Blk 26C Anchorage Townsite East Addition Subd
851	"IS" 4+05.99	30.07 RT	61° 13' 06.20773" N	149° 52' 00.27653" W	340683.6260	351570.9691	Fd Rbr/YPC: ROW/PC NW Cor L1A Blk 27D Anchorage Townsite East Addition Subd
856	"IS" 4+16.96	329.94 RT	61° 13' 06.31436" N	149° 51' 54.15302" W	340695.0694	351870.8270	Fd Rbr/YPC[LS7625]: ROW/NE Cor L1A Blk 27D Anchorage Townsite East Addition Subd
701	"IS" 4+59.91	0.00	61° 13' 06.73875" N	149° 52' 00.88999" W	340737.4917	351540.8172	Fd AM/Bx[LS5122]: SI 4th Ave/Ingra St
857	"IS" 4+60.00	719.83 LT	61° 13' 06.74379" N	149° 52' 15.58879" W	340736.5609	350820.9912	Fd Copperweld/Bx: SI 4th Ave/Gambell St
853	"IS" 4+89.92	329.89 LT	61° 13' 07.03625" N	149° 52' 07.62592" W	340767.0373	351210.8867	Fd AC[LS7625]: ROW/SW Cor L7 Blk 26B Anchorage Townsite East Addition Subd
852	"IS" 4+89.95	179.94 LT	61° 13' 07.03564" N	149° 52' 04.56407" W	340767.2775	351360.8304	Fd Rbr/YPC: ROW/SW Cor L10A Blk 26B Anchorage Townsite East Addition Subd
854	"IS" 4+90.01	360.14 RT	61° 13' 07.03295" N	149° 51' 53.53563" W	340768.1084	351900.9106	Fd Rbr/YPC[LS6091]: ROW/SE Cor L3 Blk 27A Anchorage Townsite East Addition Subd
702	"IS" 8+19.97	0.00	61° 13' 10.28428" N	149° 52' 00.88548" W	341097.5554	351540.3051	Fd AM/Bx[LS5122]: SI 3rd Ave/Ingra St
858	"IS" 8+20.13	720.15 RT	61° 13' 10.28072" N	149° 51' 46.17966" W	341098.6832	352260.4517	Fd AC/Bx[6054-S]: SI 3rd Ave/Karluk St
855	"IS" 8+20.14	719.81 LT	61° 13' 10.29060" N	149° 52' 15.58444" W	341096.7542	350820.4933	Fd AC/Bx[8504-S]: SI 3rd Ave/Gambell St
859	"IS" 8+49.96	30.12 LT	61° 13' 10.57977" N	149° 52' 01.50015" W	341127.5026	351510.1434	Fd AC[LS7835]: ROW/SE Cor Blk 35 Anchorage Townsite East Addition Subd

	VERTICAL CONTROL											
				NAD83(92) GEODETIC COORDINATES		LOCAL COORDINATES						
	POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	ELEVATION	DESCRIPTION			
	617	"IS" 4+91.84	28.23 RT	61° 13' 07.05" N	149° 52' 00.31" W	340769	351569	116.19	Set X on Bolt: Scribed X on NE bolt of light pole base/NE cor of Ingra St/4th Ave			
	616	"IS" 7+90.33	41.60 LT	61° 13' 09.99" N	149° 52' 01.74" W	341068	351499	109.07	Set X on Bolt: Scribed X on NE bolt of light polt base/SW cor of Ingra St/3rd Ave			

 DATE
 REVISION
 STATE
 PROJECT DESIGNATION
 YEAR
 SHEET NO. SHEETS

 ALASKA
 0001(344)/Z581970000
 2017
 C:A1
 C:A1



NOTE

Scale in Feet

1. The information shown hereon is based on a field survey performed by DOWL in September through November 2006, and in October 2013. Background information depicted is shown for orientation purposes only and should not be used for any other purpose.

- 2. This survey was performed to provide survey control, adjoining boundary information, and design level topographic and feature mapping for the 2014 HSIP Anchorage Area Safety Improvements.
- 3. All dimensions and coordinates shown are in U.S. Survey Feet unless otherwise noted.
- 4. Title research was not performed as part of this survey, a thorough examination of land title is needed to ensure all easements, restrictions and rights are depicted.
- 5. Project control coordinates shown on this sheet were established by using least—squares adjusted forward and reverse angles collected by total station as well as static GPS.
- 6. It is the Contractor's responsibility to work around all monuments without disturbing the monument or case.

Whether listed or not, ALL monuments or property markers, corners, or accessories, which will be disturbed or buried, shall be referenced and re—established in their original position (A.S. 19.10.260) and recorded (A.S. 34.65.0440).

HORIZONTAL CONTROL STATEMENT

<u>Coordinate System:</u>

This project is located entirely within the Anchorage Bowl 2000 adjustment, a local surface grid coordinate system expressed in U.S. Survey feet units developed by the Alaska Department of Transportation.

Basis of Coordinates:

The Basis of Coordinates is NGS Station O'Malley, located near the intersection of the New Seward Highway and O'Malley Road. Said station has Anchorage Bowl 2000 coordinates of 303939.2310 N, 353362.5446 E. U.S. Survey Feet.

Basis of Bearings:

The Basis of Bearings is a local plane bearing between NGS Station O'Malley and NGS Station Loop 2 USE RM 3 1964. NGS Station Loop 2 USE RM 3 1964 bears N 01°43'26.4"E a distance of 49488.4476 feet from NGS Station O'Malley. NGS Station Loop 2 USE RM 3 1964 has Anchorage Bowl 2000 coordinates of 353405.2778 N, 354851.3982 E. U.S. Survey Feet.

<u>Translation Parameters:</u>

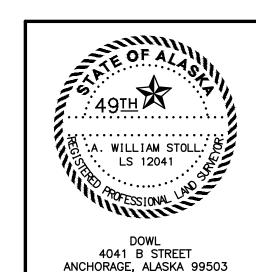
To convert the local coordinates to NAD83 (92) State Plane coordinates expressed in U.S. Survey Feet, translate using +2296868.6878 N usf, +1312517.4904 E usf, and scale using 0.9998910192.

VERTICAL CONTROL STATEMENT

Elevations are based on the Municipality of Anchorage (MOA) Vertical Control Network. The datum is Mean Sea Level (MSL) GAAB 1972 Adjust and the unit of measure is U.S. Survey Feet.

The basis of elevations is MOA Bench Mark "CB-4C", a brass cap located in the southeast quadrant of the intersection of 12th Avenue and L Street, having a value of 90.88 feet above Mean Sea Level.

- A Leica DNA10 digital level was used for all leveling on this project. The elevations were computed in Leica Digilev software using a length weighted adjustment. All of the level loops closed within Third—Order tolerances per Federal Geodetic Control Committee Standards and Specifications for Geodetic Control Networks.
- All elevations on control points and benchmarks need to be field verified before they are used.

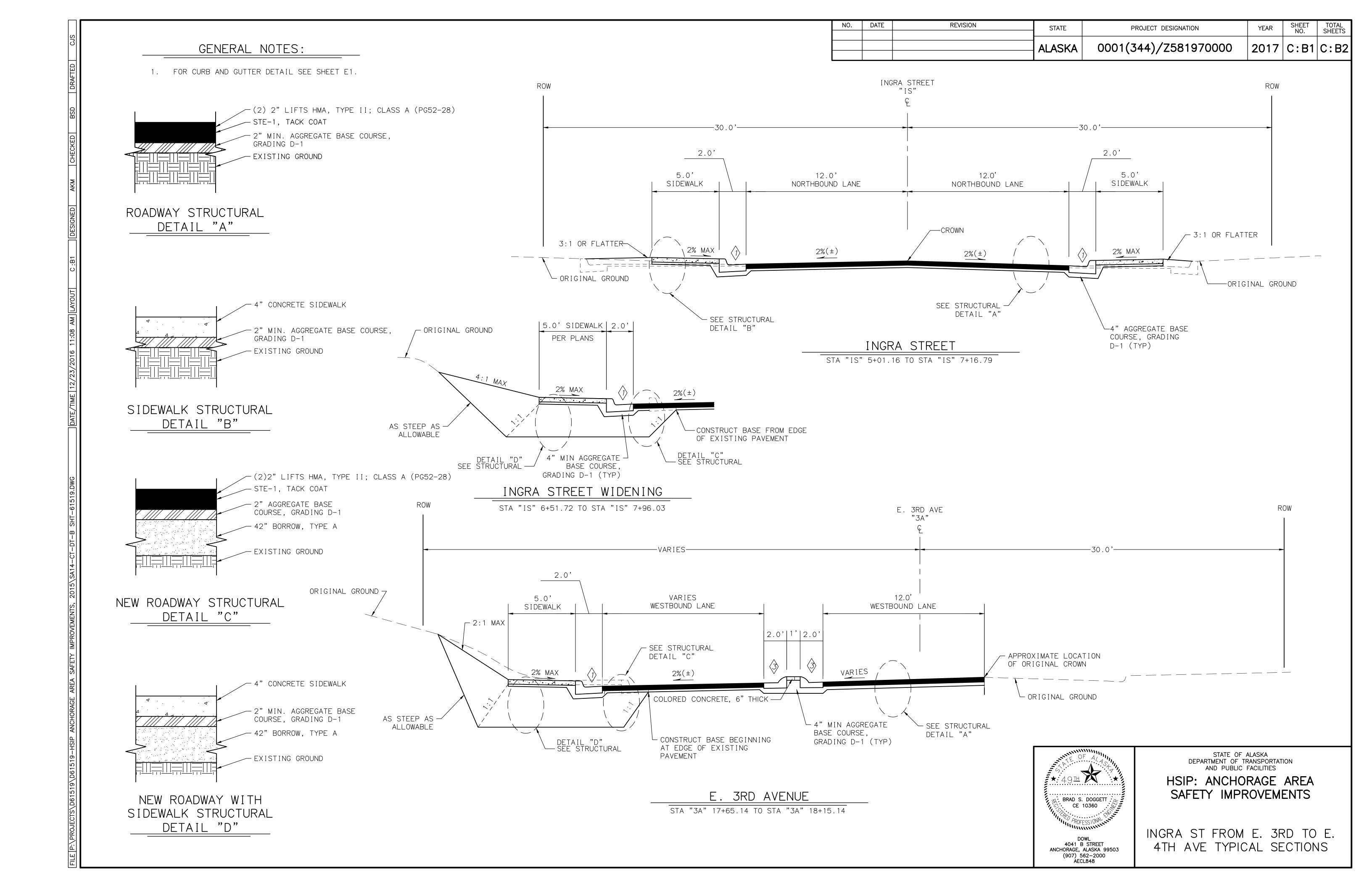


(907) 562-2000

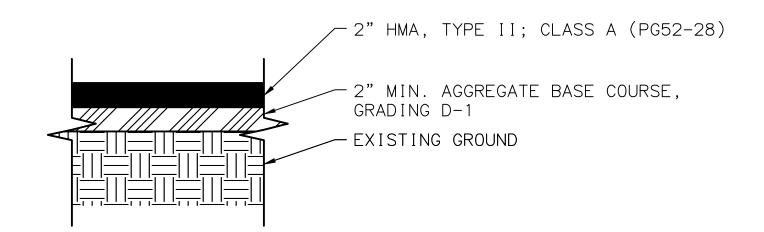
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

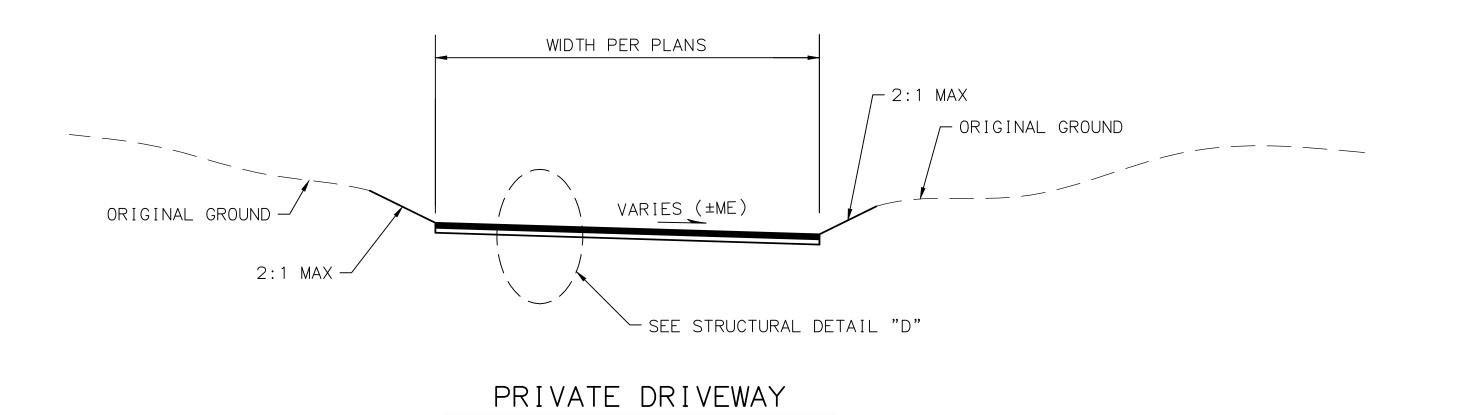
INGRA ST FROM E. 3RD TO
E. 4TH AVE
SURVEY CONTROL

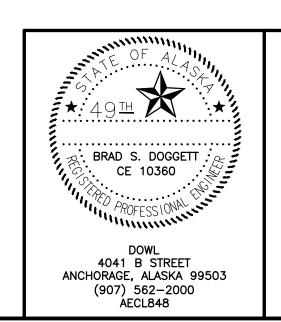


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			ALASKA	0001(344)/Z581970000	2017	C: B2	C:B



PRIVATE DRIVEWAY STRUCTURAL DETAIL "D"

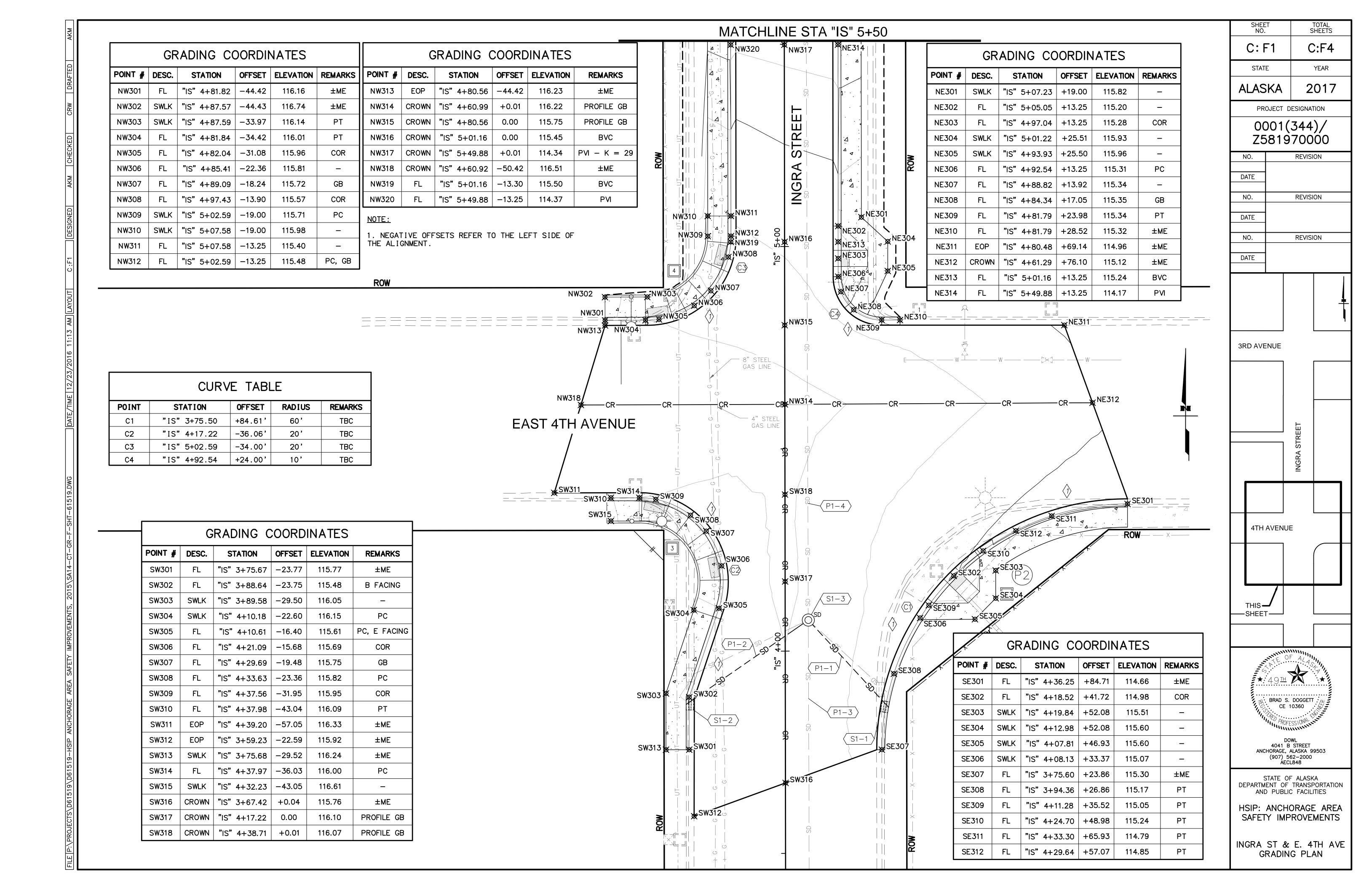


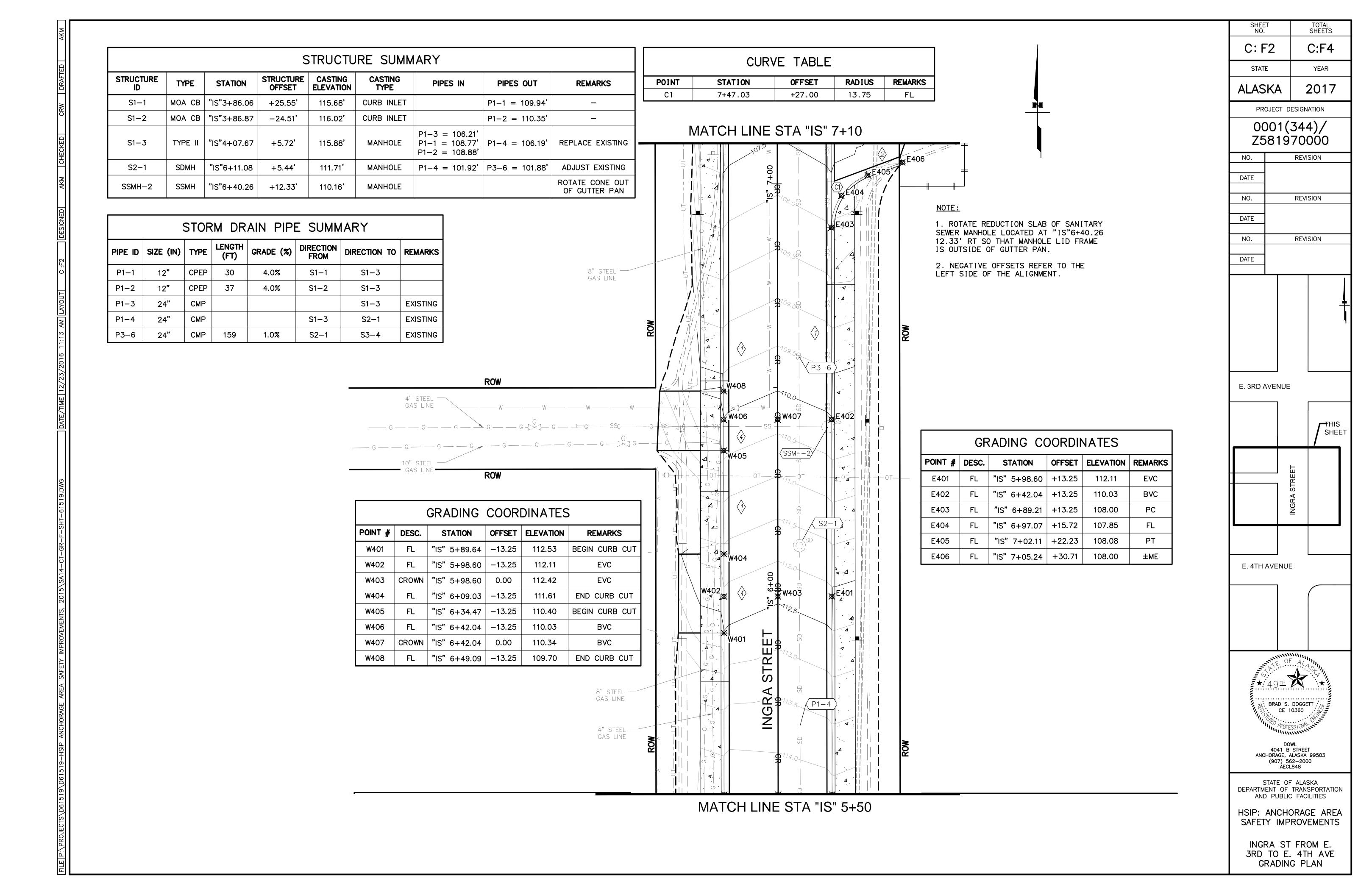


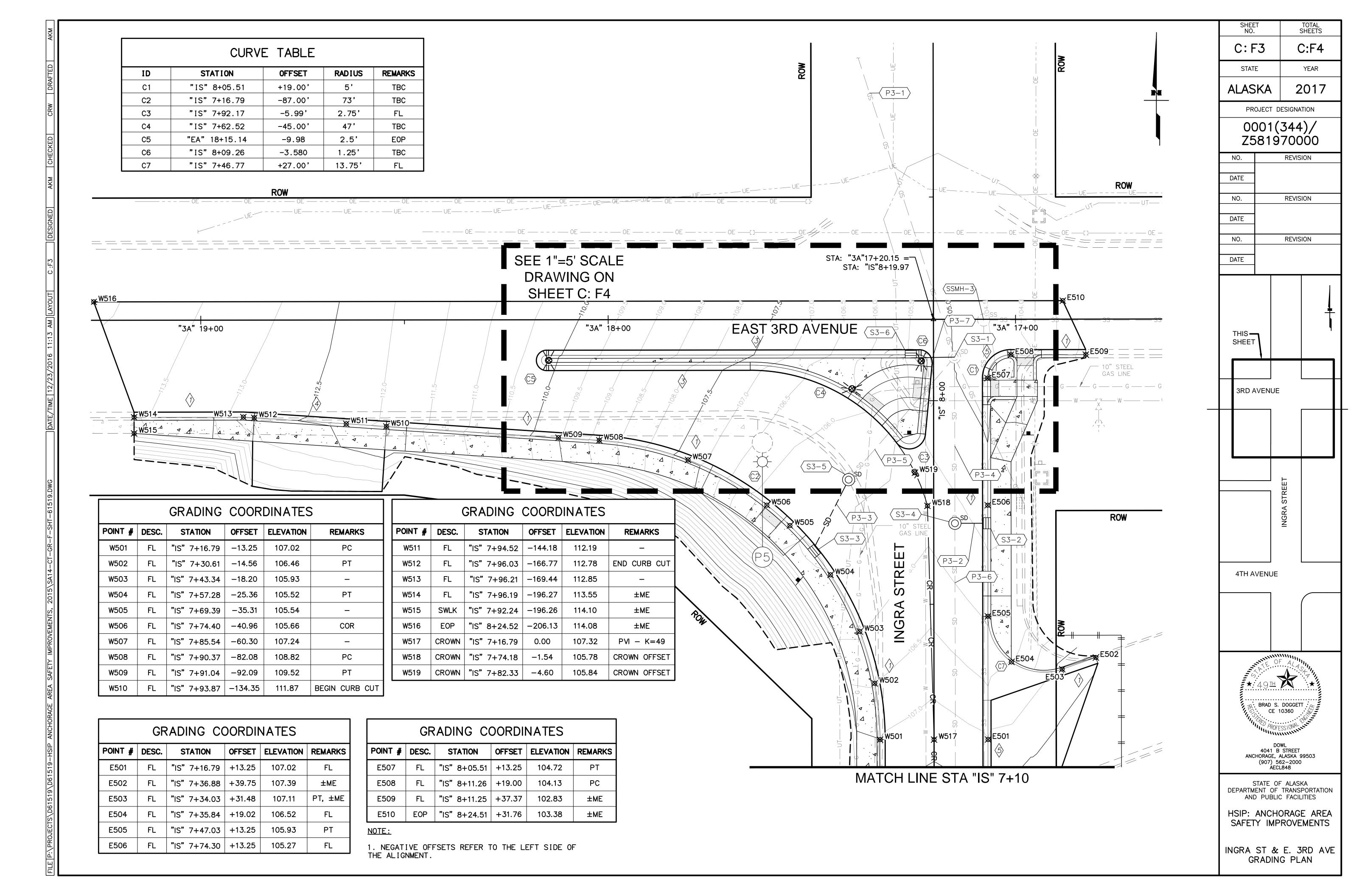
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

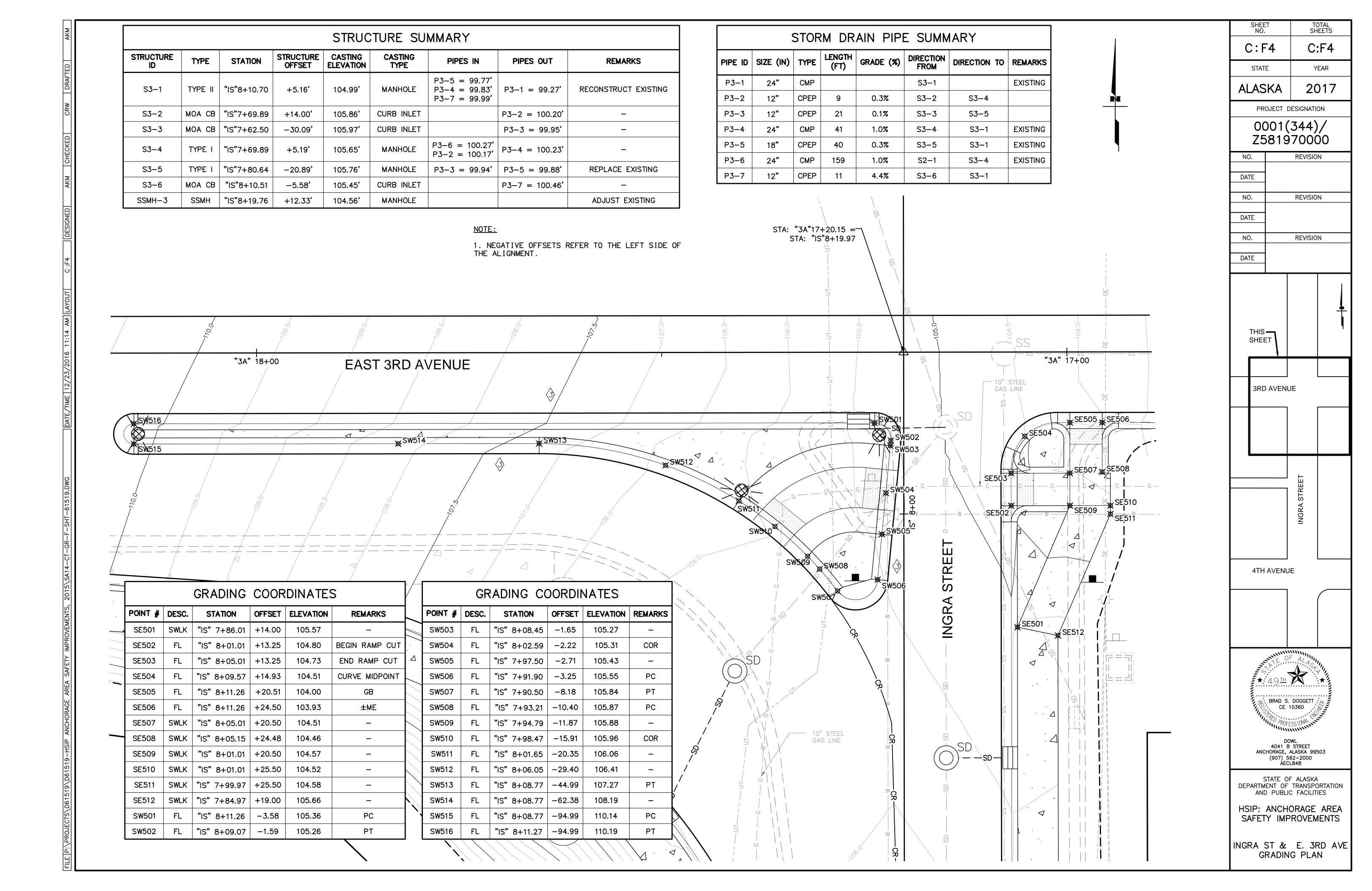
HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

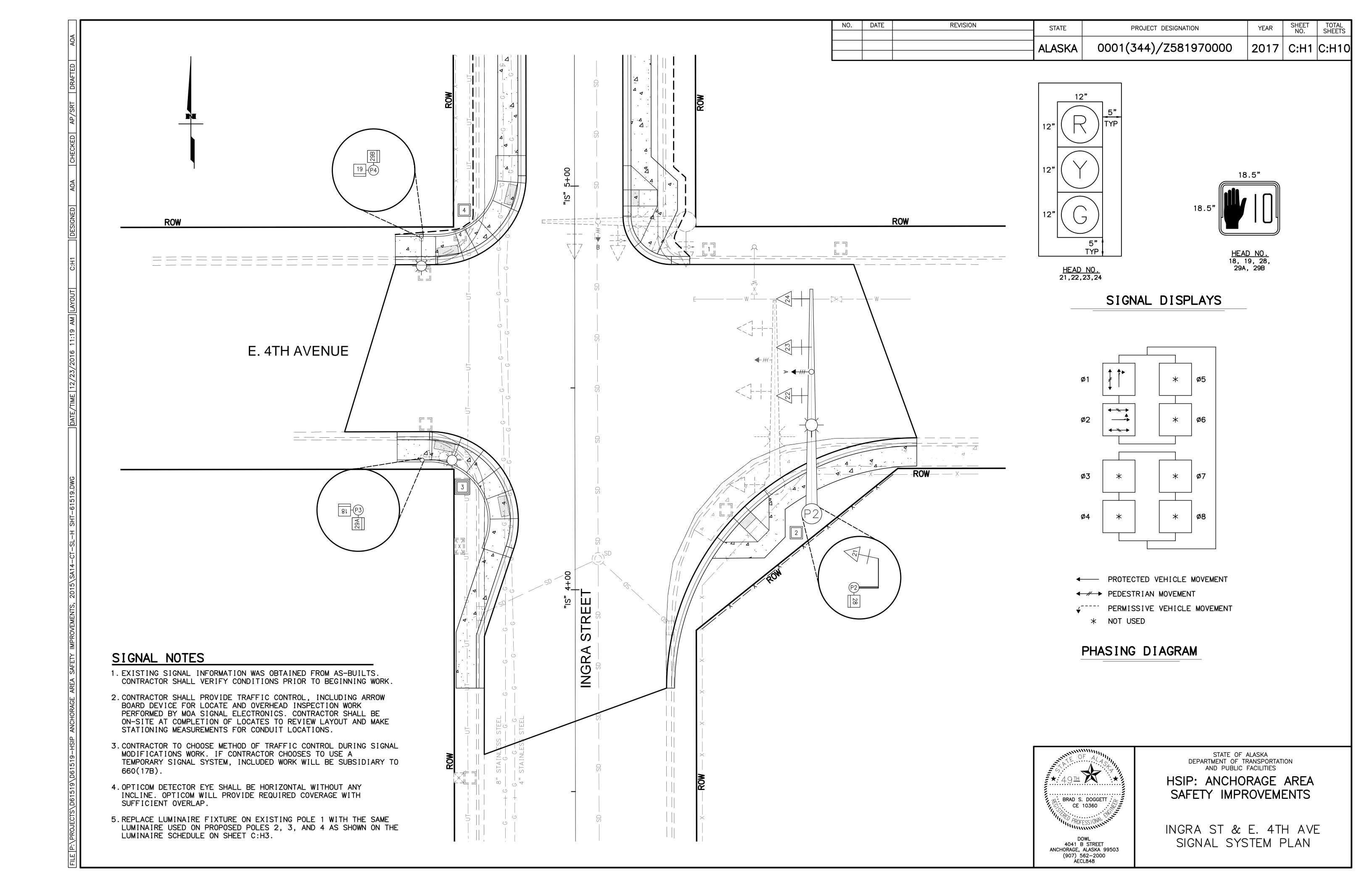
INGRA ST FROM E. 3RD TO E. 4TH AVE DRIVEWAY TYPICAL SECTIONS

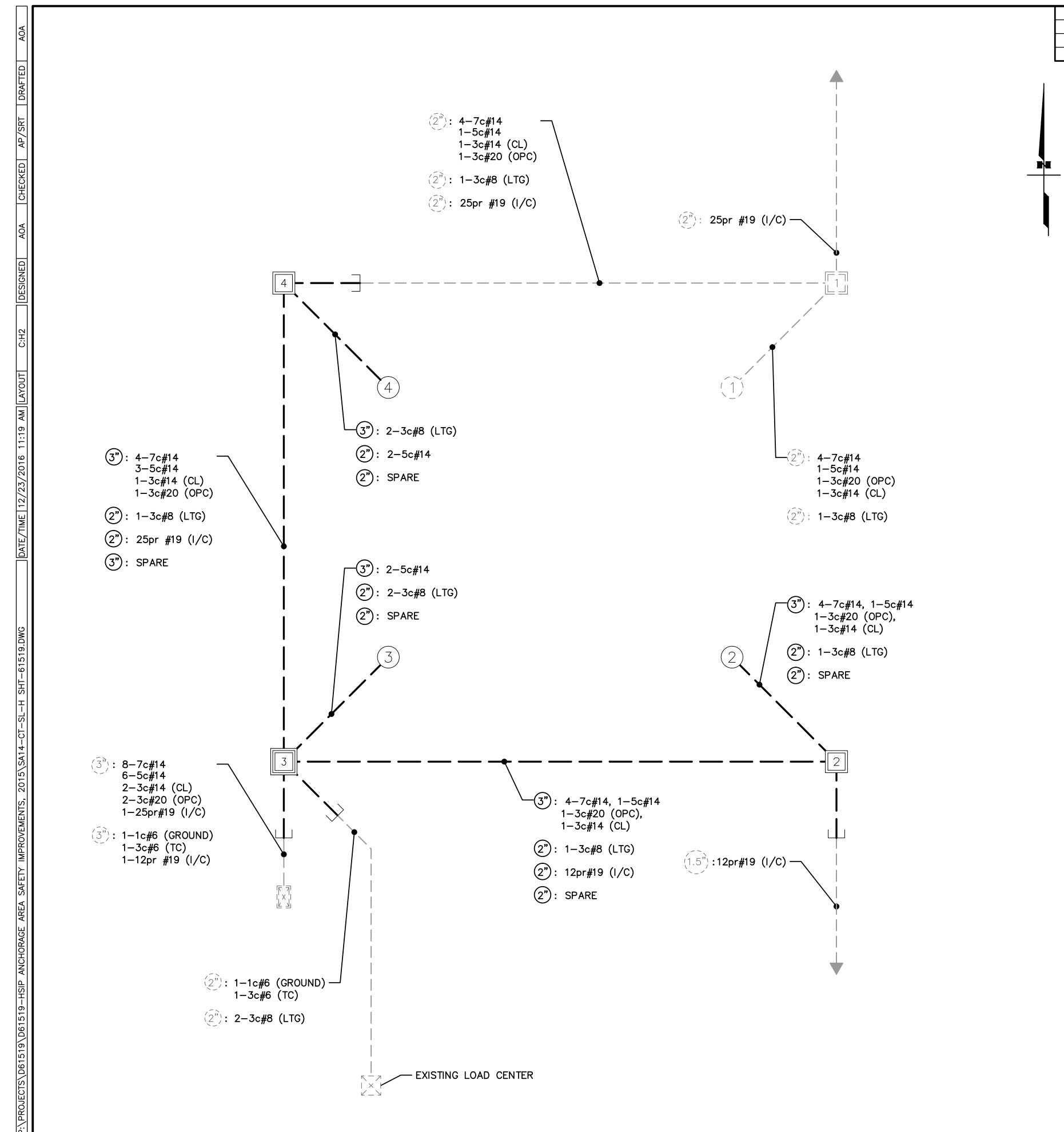












NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	C:H2	C:H10

WIRING NOTES

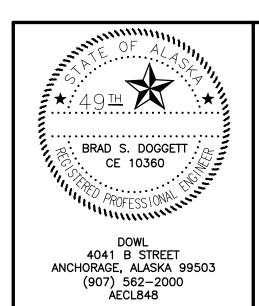
- 1. NEW 12pr#19 INTERCONNECT CABLE SHALL BE INSTALLED BETWEEN INGRA STREET & 4TH AVENUE CONTROLLER CABINET AND INGRA STREET & 5TH AVENUE INTERCONNECT CABINET ADJACENT TO CONTROLLER CABINET.
- 2. NEW 25PR#19 INTERCONNECT CABLE SHALL BE INSTALLED BETWEEN INGRA STREET & 4TH AVENUE CONTROLLER CABINET AND TYPE 3 SPLICE JUNCTION BOX LOCATED ON THE SOUTHEAST QUADRANT OF INGRA STREET & 3RD AVENUE.

	FOUNDATION SCHEDULE											
DESC	STATION ALIGNMENT	OFFSET	REMARKS									
P2	"IS" 4+18.71	58.63' RT	42" DIAMETER, 12' DEEP CIDH									
P3	"IS" 4+32.17	37.88' LT	42" DIAMETER, 10' DEEP CIDH									
P4	"IS" 4+87.66	37.97'LT	42" DIAMETER, 10' DEEP CIDH									

POLE SALVAGE SCHEDULE									
POLE	STATION ALIGNMENT	0FFSET							
2	"IS" 4+25.96	49.49' RT							

	J-BOX SCHEDULE										
DESC	STATION ALIGNMENT	0FFSET	REMARKS								
2	"IS" 4+14.00	54.83' RT	TYPE II								
3	"IS" 4+25.50	27.91' LT	TYPE III								
4	"IS" 4+94.00	27.32' LT	TYPE II								

J-BOX SALVAGE SCHEDULE										
J-B0X	STATION ALIGNMENT	OFFSET								
2	"IS" 4+19.75	37.43' RT								
3	"IS" 4+25.50	27.91' LT								
4	"IS" 4+88.04	28.34' LT								



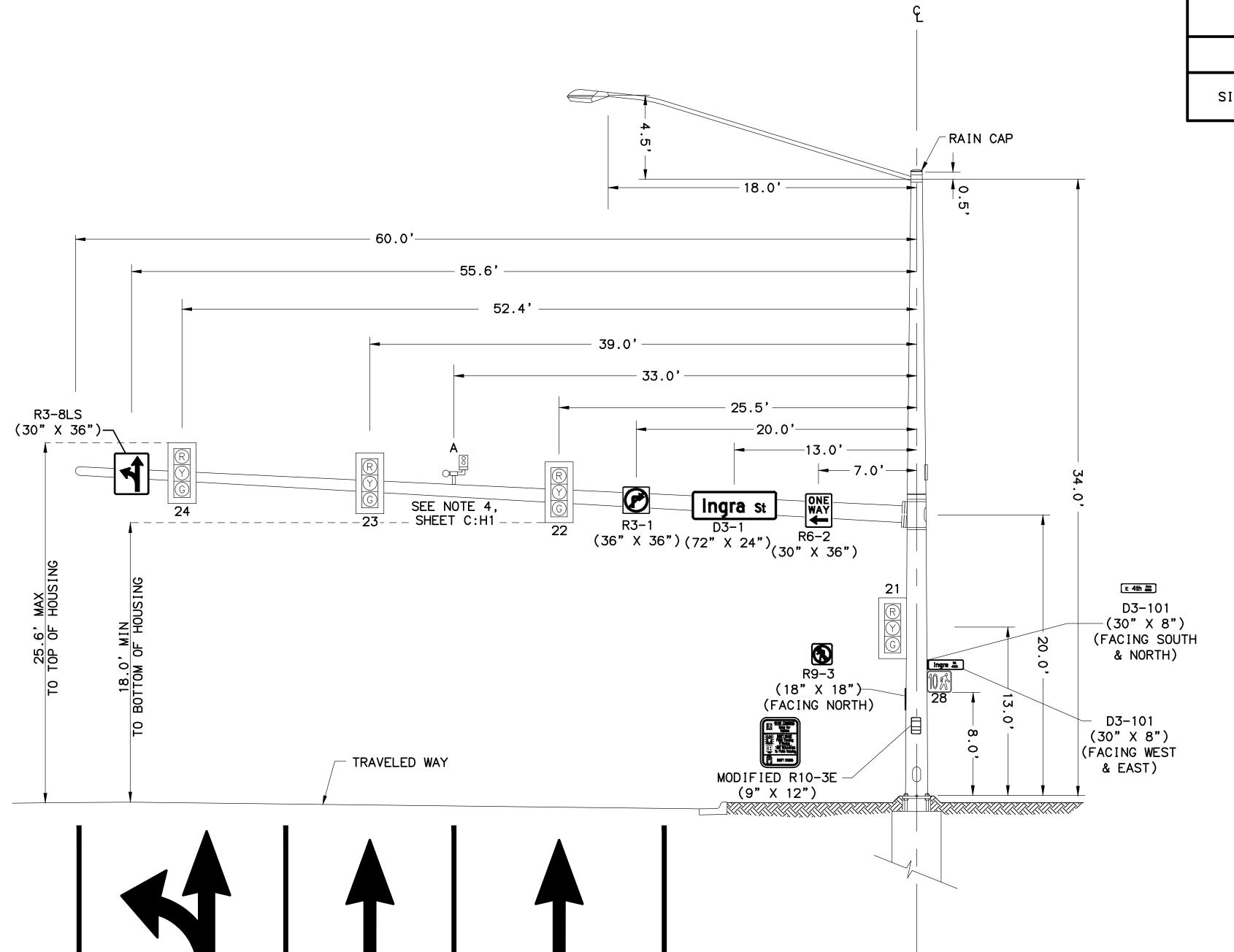
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

INGRA ST & E. 4TH AVE WIRING DIAGRAM

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	C:H3	C:H10

SIGNAL POLE No. 2 RADIAL INDEX



- 15**.**00'-

SIGNAL POLE No. 2

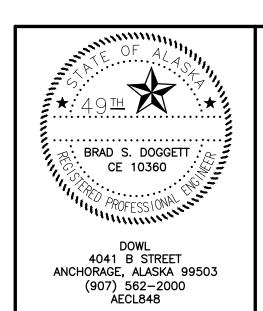
LOOKING EAST

12.00'

OPTICOM DETECTOR SCHEDULE										
LOCATION	DETECTOR ID	PHASE CALL	FACING DIRECTION	REMARKS						
SIGNAL POLE 2 MASTARM	Α	8	WEST	INSTALL DETECTOR MODEL 721						

LUMINAIRE SCHEDULE							
MANUFACTURER	GE OR APPROVED EQUAL						
MODEL	M-250A2 POWR/DOOR OR APPROVED EQUAL						
WATTAGE	250						
LIGHT SOURCE	HIGH PRESSURE SODIUM						
VOLTAGE	240						
INITIAL LUMENS	21,403						
BALLAST TYPE	MAG-REG						
PE CONTROL	NONE						
LENS TYPE	FLAT GLASS						
COLOR TEMPERATURE	2100						
COLOR RENDITION INDEX	22						
DISTRIBUTION TYPE	M-C-3						
UL LISTED	YES						

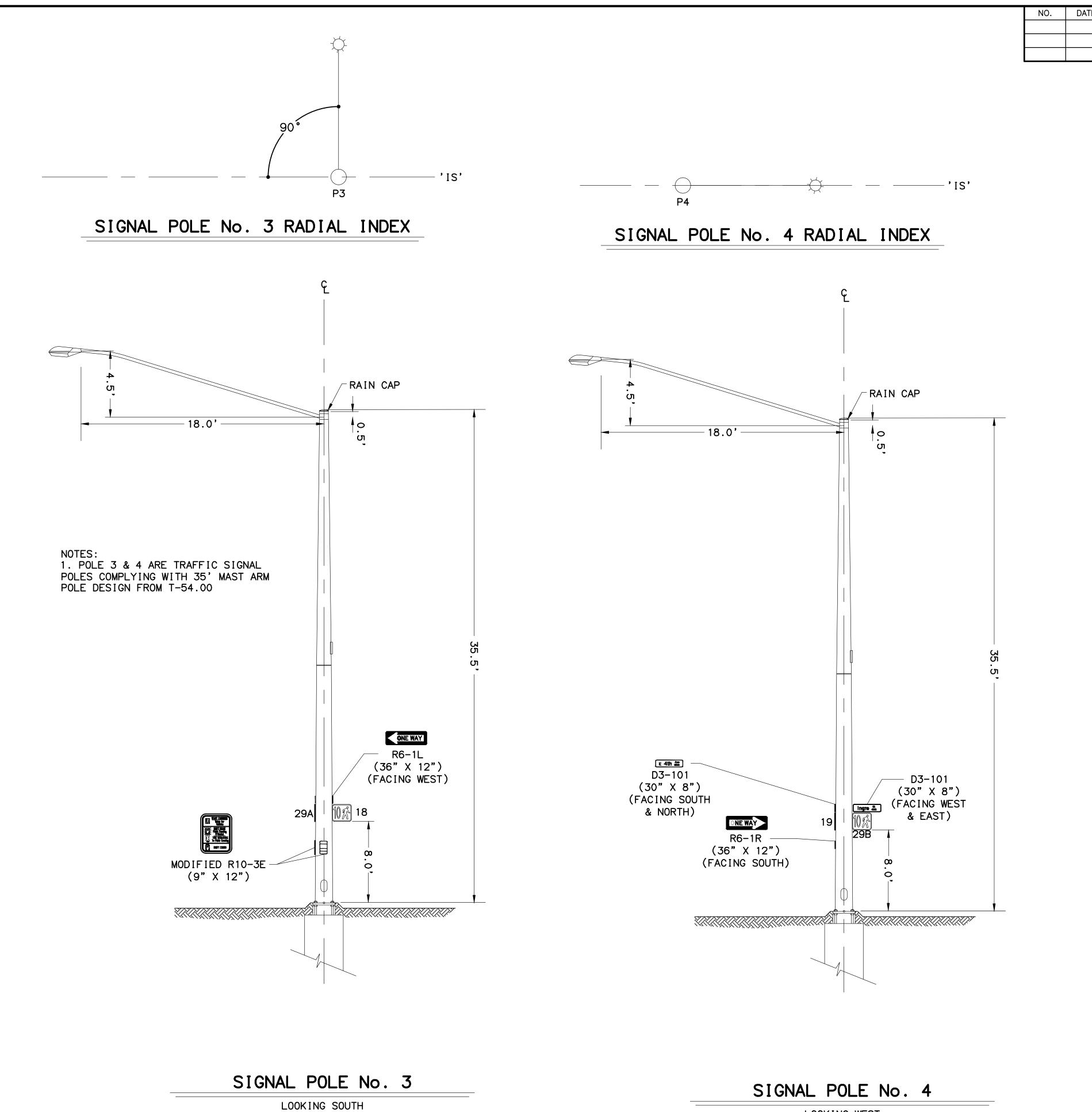
INTERSECTION ILLUMINATION PERFORMANCE CRITERIA								
PEDESTRIAN ACTIVITY	MEDIUM							
INTERSECTION FUNCTIONAL CLASSIFICATION	MAJOR/MAJOR							
MINIMUM ILLUMINANCE	2.6 fc							
MAXIMUM UNIFORMITY (AVG/MIN)	3.0:1							
DESIGN ILLUMINANCE	3.1 fc							
DESIGN UNIFORMITY (AVG/MIN)	2.0:1							



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

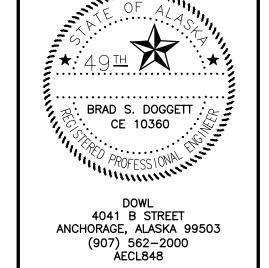
INGRA ST & E. 4TH AVE POLE ELEVATIONS



LOOKING WEST

 NO.
 DATE
 REVISION
 STATE
 PROJECT DESIGNATION
 YEAR
 SHEET NO.
 TOTAL SHEETS

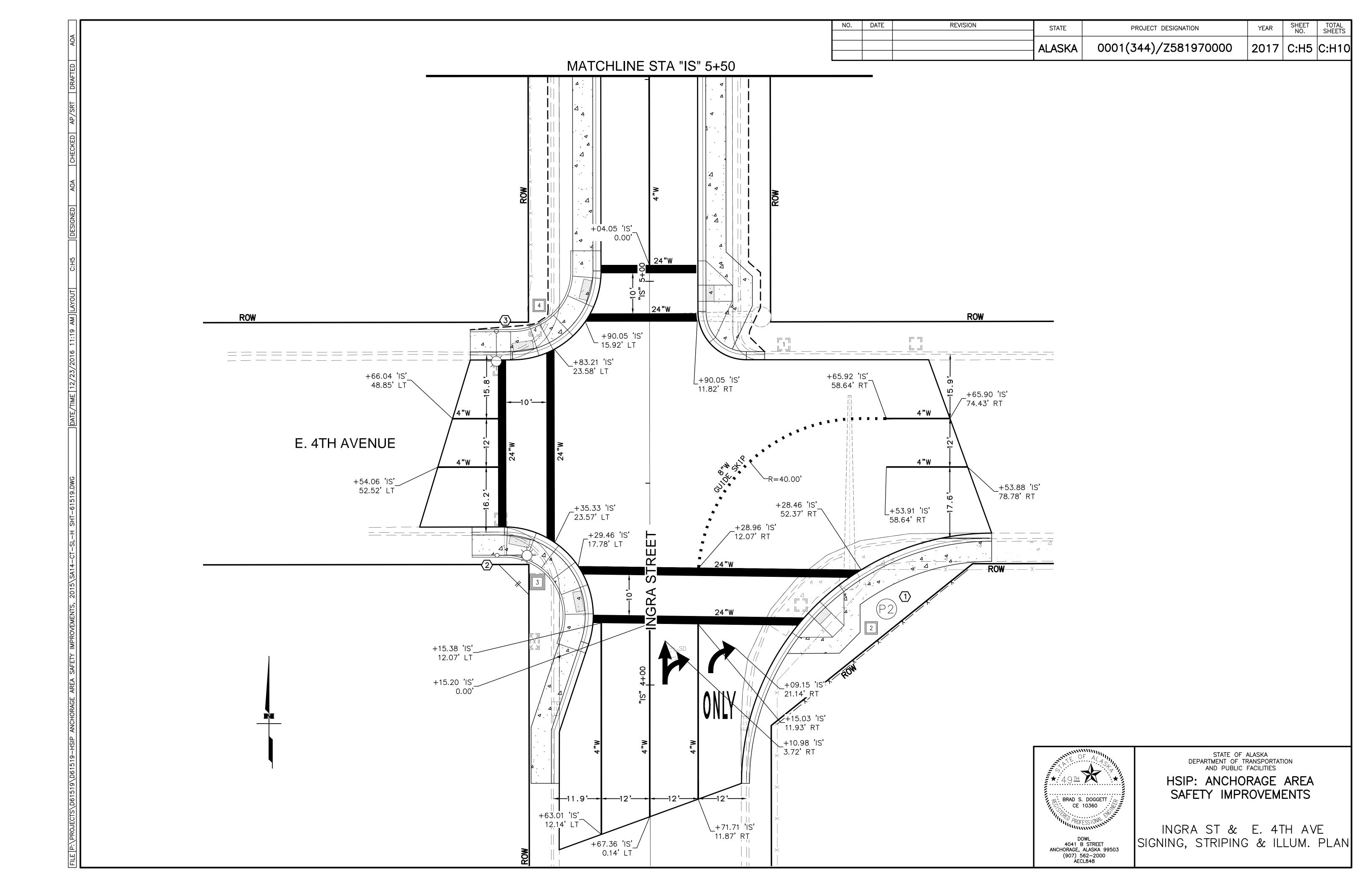
 ALASKA
 0001(344)/Z581970000
 2017
 C:H4
 C:H10

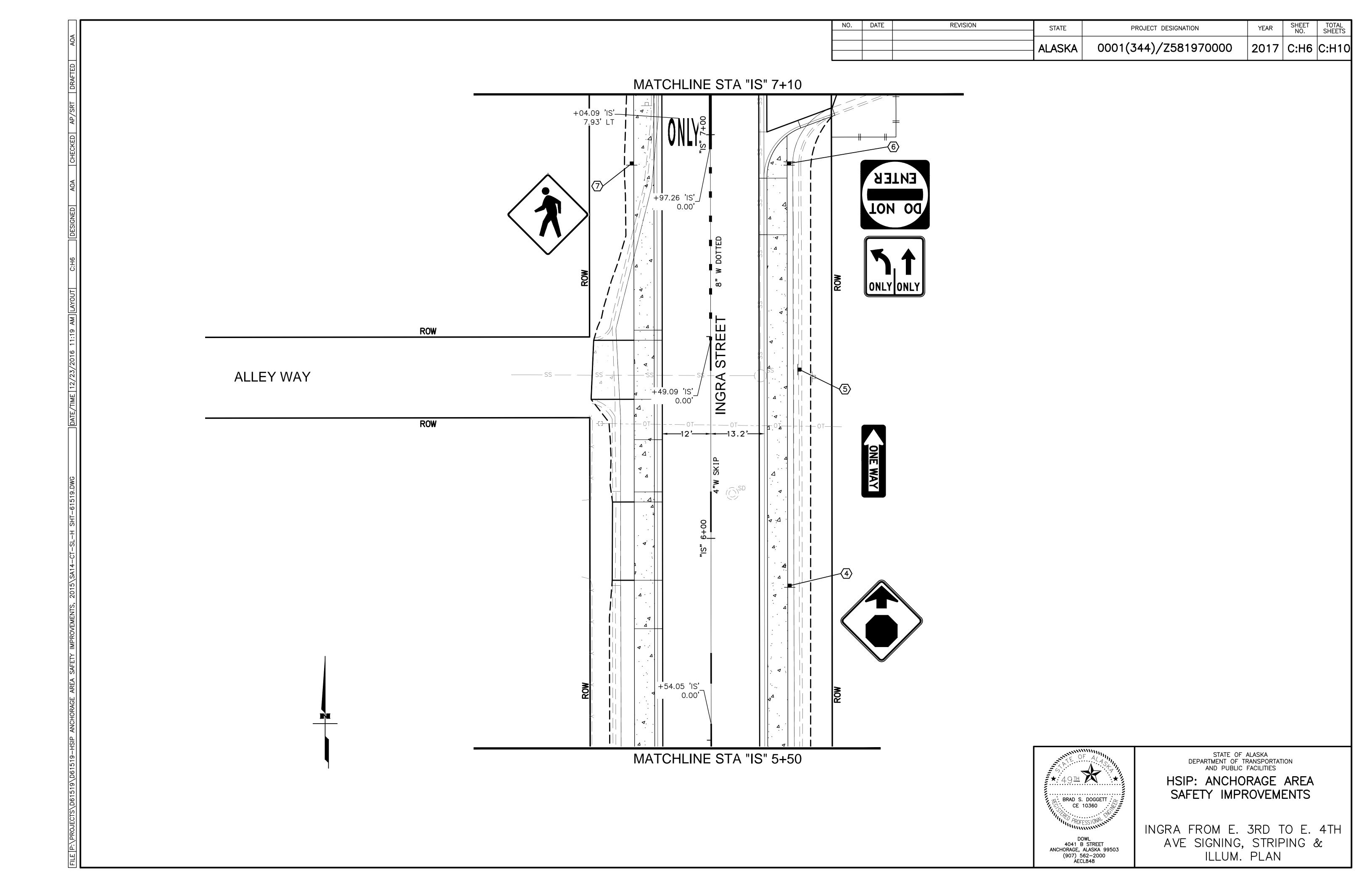


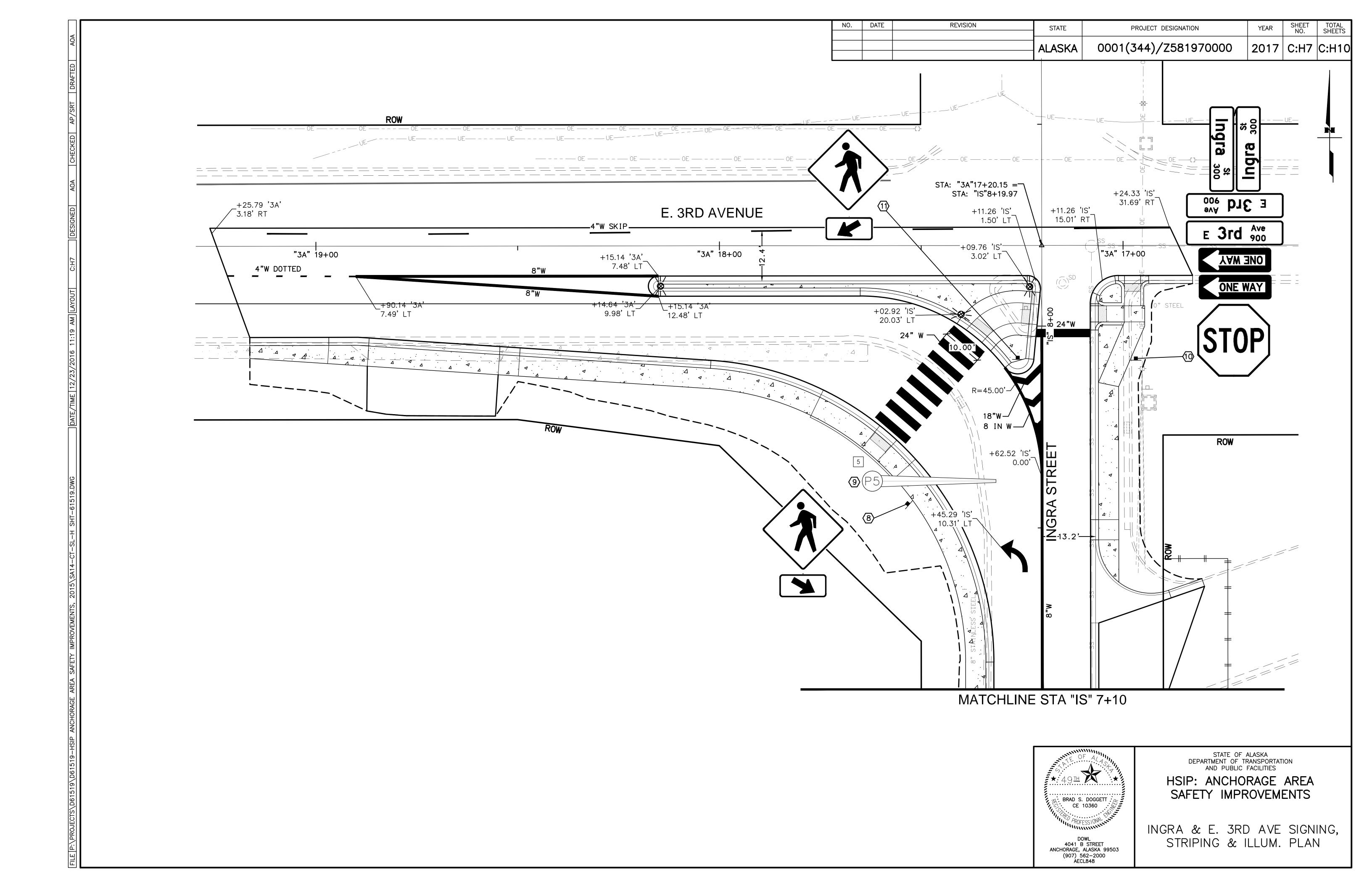
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

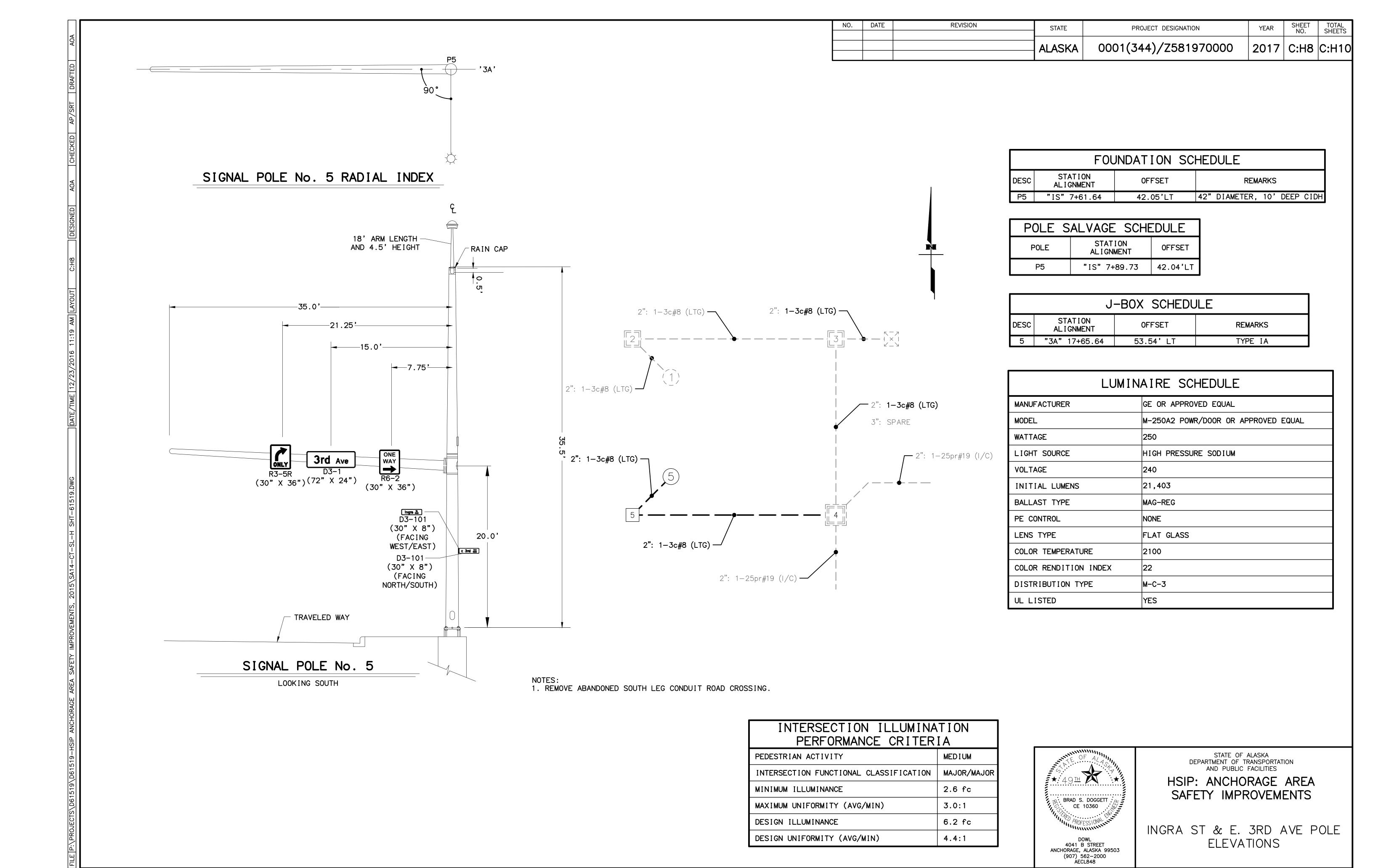
HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

INGRA ST & E. 4TH AVE POLE ELEVATIONS



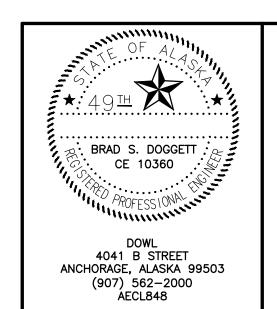






NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	C:H9	C:H1

CHEET	POST	STATION	CL	CI DEE	TVDE	LECEND	SIZE	(IN)	AREA (FT2)	SIGN	POSTS	FRA	MED	DEMARKS
SHEET	POST NO.	STATION	CL OFFSET	CL REF	TYPE	LEGEND	WIDTH	WIDTH HEIGHT		SIGN FACES	NO., SIZE, & TYPE	YES	NO	REMARKS
					R3-8LS	4	30	36	7.50	W		X		
					R3-1		36	36	9.00	w			Х	
					D3-1	Ingra st	72	24	12.00	W	SIGNAL POLE	×		
C:H3	1	"IS" 4+18.71	58.63'	RT	R6-2	ONE WAY	30	36	7.50	w		×		
					R9-3		18	18	4.50	N	NO. 2		X	
					D3-101	Ingra St 400	30	8	3.33	E/W			×	2 SIGNS BACK TO BACK
					D3-101	E 4th Ave	30	8	3.33	N/S			×	2 SIGNS BACK TO BACK
					MODIFIED R10-3E	STAFT CROSSING Watch For Verices DON'T START Friend Counting IT Surred THE REPAIRING IN FRIEND COUNTING DON'T CROSS	9	12	0.75	w			X	
					R6-1L	ONE WAY	36	12	3.00	w		X		
C:H4	2	"IS" 4+32.17	37.88'	LT	MODIFIED R10-3E	START CROSSING World For World For World For Finish Crossing IT Started The Friend Crossing IT Started To Friend Crossing DON'T CROSS	9	12	0.75	N	SIGNAL POLE NO. 3		X	
					MODIFIED R10-3E	START CROSSING Watch for Watch for Watch for DON'T START Third Counting Time REPAIRING TO Frield Counting DON'T CROSS	9	12	0.75	E			x	
					D3-101	E 4th Ave	30	8	3.33	N/S			X	2 SIGNS BACK TO BACK
C:H4	3	"IS" 4+87.66	37.97'	LT	D3-101	Ingra St 400	30	8	3.33	E/W	SIGNAL POLE NO. 4		X	2 SIGNS BACK TO BACK
					R6-1R	ONE WAY	36	12	3.00	S		X		
C:H6	4	"IS" 5+88.29	19.50'	RT	W3-1		30	30	6.25	S	1-2.5" X 2.5" PT		X	
C:H6	5	"IS" 6+41.79	22.00'	RT	R6-1L	ONE WAY	36	12	3.00	w	1-3.0" T	X		

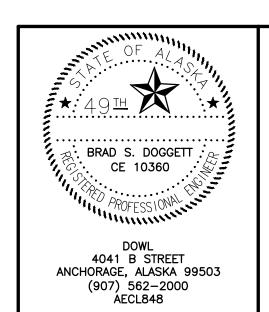


HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

INGRA ST AT E. 3RD TO E. 4TH AVE SIGN SUMMARY

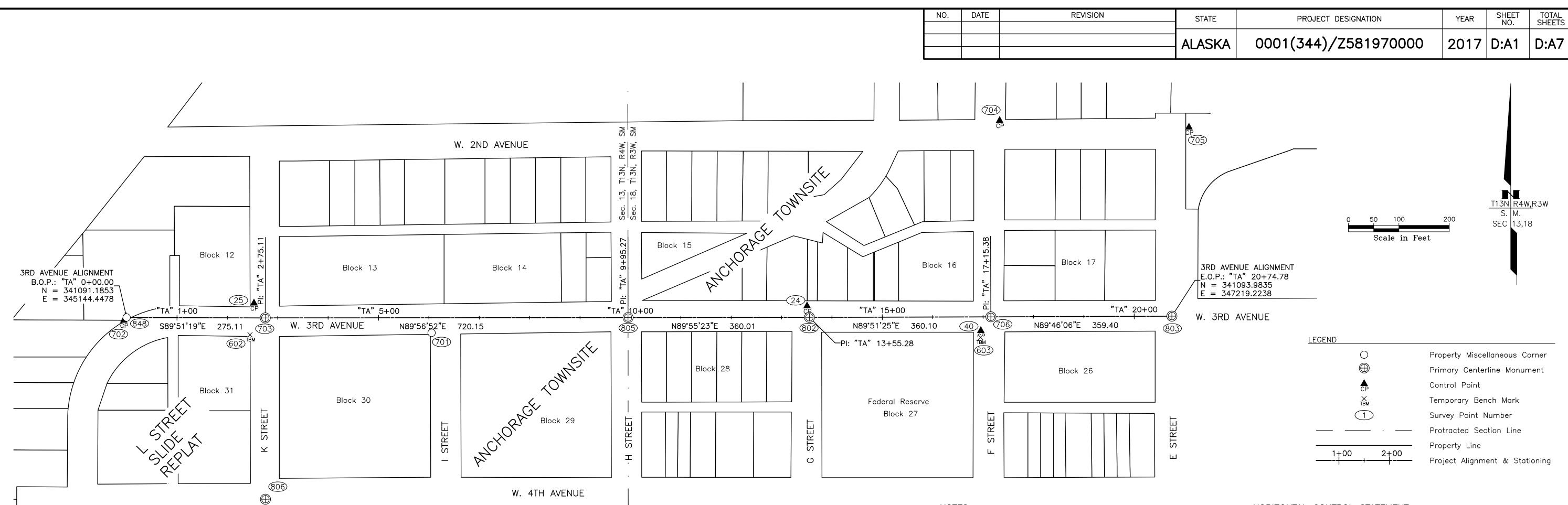
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	C:H10	C:H1

SHEET	POST	CTATION	CL	OL BEE	TVDE	LECEND	SIZE	(IN)	AREA	SIGN	POSTS	FRA	MED	DEMARKS
SHEET	NO.	STATION	CL OFFSET	CL REF	TYPE	LEGEND	WIDTH	HEIGHT	(FT2)	FACES	NO., SIZE, & TYPE	YES	NO	- REMARKS
C:H6	6	"IS" 6+92.85	19.50'	RT	R3-108B	ONLY ONLY	30	30	6.25	S	1-2.5" X 2.5" PT		×	
		10 0.02.00	10.00		R5-1	DO NOT ENTER	30	30	6.25	N	2.5" PT		×	
C:H6	7	"IS" 6+92.91	19.50'	LT	W11-2		30	30	6.25	S	1-2.5" X 2.5" PT		X	
C:H7	8	"IS" 7+56.04	33.32'	LT	W11-2		30	30	6.25	S	1-2.5" X 2.5" PT		x	
					W16-7PR		24	12	2.00	S			Х	
					R3-5R	ONLY	30	3.0	7.5	N			×	
					D3-1	3rd Ave	72	24	12.0	0 N	X			
C:H8	9	"IS" 7+61.64	42.05'	LT	R6-2	ONE WAY	30	36	7.5	N	SIGNAL POLE NO. 5		x	
					D3-101	Ingra st	42	12	7.00	E/W		×		2 SIGNS BACK TO BACK
					D3-101	E 3rd Ave	24	8	2.67	N/S			Х	2 SIGNS BACK TO BACK
					D3-101	Ingra St 300	42	12	7.00	E/W		×		2 SIGNS BACK TO BACK
					D3-101	E 3rd Ave	24	8	2.67	N/S			X	2 SIGNS BACK TO BACK
C:H7	10	"IS" 7+91.95	23.27	RT	R6-1R	ONE WAY	36	12	3.00	N	1-2.5" X 2.5" PT	X		SIGN BACK TO BACK WITH R6-1L
			23127		R6-1L	ONE WAY	36	12	3.00	S	2.5″ PT	X		SIGN BACK TO BACK WITH R6-1R
					R1-1	STOP	36	36	9.00	S		x		
C:H7	11	"IS" 7+94.17	5.99'	LT	W11-2		30	30	6.25	S	1-2.5" X 2.5" PT		X	
					W16-7PL		24	12	2.00	S			Х	



HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

INGRA ST AT E. 3RD TO E. 4TH AVE SIGN SUMMARY



	HORIZONTAL AND VERTICAL CONTROL — 3RD AVENUE ALIGNMENT												
			NAD83(92) GEODET	FIC COORDINATES	LOCAL CO	ORDINATES	ELLIPSOID						
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	HEIGHT	ELEVATION	DESCRIPTION				
25	"TA" 2+52.58	29.45 LT	61° 13′ 10.61232" N	149° 54' 06.33226" W	341120.0004	345397.1045	120.59	92.45	Fd BC[6714-S]: HSIP-25				
24	"TA" 13+50.50	22.67 LT	61° 13' 10.53934" N	149° 53' 43.91447" W	341114.2907	346494.9166	125.28	97.09	Fd BC[6714-S]: HSIP-24				
40	"TA" 16+95.31	27.11 RT	61° 13' 10.05216" N	149° 53′ 36.87292" W	341065.3717	346839.8222	-	94.22	Fd AC[6714-S]: HSIP-40				
704	"TA" 17+34.32	390.12 LT	61° 13' 14.16119" N	149° 53′ 36.09592" W	341482.7234	346877.1915	-	67.11	Fd AC[DOWL]: IMF-16				
702	N/A	N/A	61° 13' 10.27953" N	149° 54' 11.61298" W	341085.8179	345138.5572	-	95.63	Fd AC[6714-S]: IMF-10				
705	N/A	N/A	61° 13' 14.02315" N	149° 53' 28.42270" W	341469.3234	347252.9607	_	69.39	Fd AC[6714-S]: IMF-17				

				RECOVERED M	ONUMENTS - 3RD A	AVENUE ALIGNMENT	
			NAD83(92) GEODE	TIC COORDINATES	LOCAL CO	ORDINATES	
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	DESCRIPTION
848	"TA" 0+00.00	0.00	61° 13′ 10.33229" N	149° 54' 11.49253" W	341091.1853	345144.4478	Fd Rbr/YPC[LS8535]: ROW/SSE Cor L10A Blk 12 L Street Slide Replat Subd
703	"TA" 2+75.11	0.00	61° 13′ 10.32140″ N	149° 54' 05.87458" W	341090.4897	345419.5614	Fd AC: SI 3rd Ave/K St
806	"TA" 2+75.11	360.22 RT	61° 13' 06.77431" N	149° 54' 05.87901" W	340730.2678	345419.8867	Fd BC/Bx[609-S]: SI 4th Ave/K St
701	"TA" 6+05.24	29.99 RT	61° 13' 10.02411" N	149° 53′ 59.13370" W	341060.8005	345749.7098	Fd Rbr: ROW/NE Cor Lot 1A Blk 30 Anchorage Townsite Subd
805	"TA" 9+95.27	0.00	61° 13' 10.31698" N	149° 53′ 51.16865" W	341091.1470	346139.7140	Fd AC: SI 3rd Ave/H St
802	"TA" 13+55.28	0.00	61° 13' 10.31613" N	149° 53′ 43.81704″ W	341091.6309	346499.7238	Fd Copperweld/Bx: SI 3rd Ave/G St
706	"TA" 17+15.38	0.00	61° 13' 10.31927" N	149° 53′ 36.46358″ W	341092.5305	346859.8232	Fd AC: SI 3rd Ave/F St
803	"TA" 20+74.78	0.00	61° 13' 10.32775" N	149° 53′ 29.12438" W	341093.9835	347219.2238	Fd Copperweld: SI 3rd Ave/E St

					VERTIC	AL CONTROL -	- 3RD AVENUE A	ALIGNMENT
			NAD83(92) GEODETIC COORDINATES LOCAL COORDINATES			ORDINATES		
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	ELEVATION	DESCRIPTION
602	"TA" 2+44.94	33.55 RT	61° 13' 09.99" N	149° 54′ 06.49" W	341057	345389	95.40	Set X on Wall: TBM 2482-68B/Yellow X on NE cor of concrete retaining wall/SW cor K st./3rd
603	"TA" 16+94.80	40.50 RT	61° 13' 09.92" N	149° 53′ 36.88″ W	341052	346839	95.58	Set X on Screw: TBM 2482-68A/Yellow X on top of NE light pole base screw/SW cor F st./3rd

HORIZONTAL CONTROL STATEMENT

This project is located entirely within the Anchorage Bowl 2000 adjustment, a local surface grid coordinate system expressed in U.S. Survey feet units developed by the Alaska Department of Transportation.

Basis of Coordinates:

1. The information shown hereon is based on a field survey performed by DOWL in September through November 2006, and in October 2013.

Background information depicted is shown for orientation purposes only

2. This survey was performed to provide survey control, adjoining

mapping for the 2014 HSIP Anchorage Area Safety Improvements.

3. All dimensions and coordinates shown are in U.S. Survey Feet

4. Title research was not performed as part of this survey, a

thorough examination of land title is needed to ensure all easements,

5. Project control coordinates shown on this sheet were established by

using least—squares adjusted forward and reverse angles collected by

6. It is the Contractor's responsibility to work around all monuments

Whether listed or not, ALL monuments or property markers, corners, or accessories, which will be disturbed or buried, shall be referenced and re-established in their original position (A.S. 19.10.260) and

boundary information, and design level topographic and feature

and should not be used for any other purpose.

unless otherwise noted.

restrictions and rights are depicted.

total station as well as static GPS.

recorded (A.S. 34.65.0440).

without disturbing the monument or case.

The Basis of Coordinates is NGS Station O'Malley, located near the intersection of the New Seward Highway and O'Malley Road. Said station has Anchorage Bowl 2000 coordinates of 303939.2310 N, 353362.5446 E. U.S. Survey Feet.

The Basis of Bearings is a local plane bearing between NGS Station O'Malley and NGS Station Loop 2 USE RM 3 1964. NGS Station Loop 2 USE RM 3

N 01°43'26.4"E a distance of 49488.4476 feet from NGS Station O'Malley. NGS Station Loop 2 USE RM 3 1964 has Anchorage Bowl 2000 coordinates of 353405.2778 N, 354851.3982 E. U.S. Survey Feet.

<u>Translation Parameters:</u>

To convert the local coordinates to NAD83 (92) State Plane coordinates expressed in U.S. Survey Feet, translate using +2296868.6878 N usf, +1312517.4904 E usf, and scale using 0.9998910192.

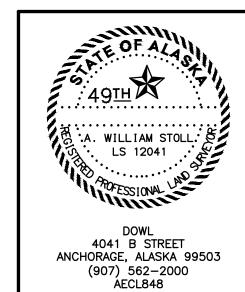
VERTICAL CONTROL STATEMENT

Elevations are based on the Municipality of Anchorage (MOA) Vertical Control Network. The datum is Mean Sea Level (MSL) GAAB 1972 Adjust and the unit of measure is U.S. Survey Feet.

The basis of elevations is MOA Bench Mark "CB—4C", a brass cap located in the southeast quadrant of the intersection of 12th Avenue and L Street, having a value of 90.88 feet above Mean Sea Level.

A Leica DNA10 digital level was used for all leveling on this project. The elevations were computed in Leica Digilev software using a length weighted adjustment. All of the level loops closed within Third—Order tolerances per Federal Geodetic Control Committee Standards and Specifications for Geodetic Control Networks.

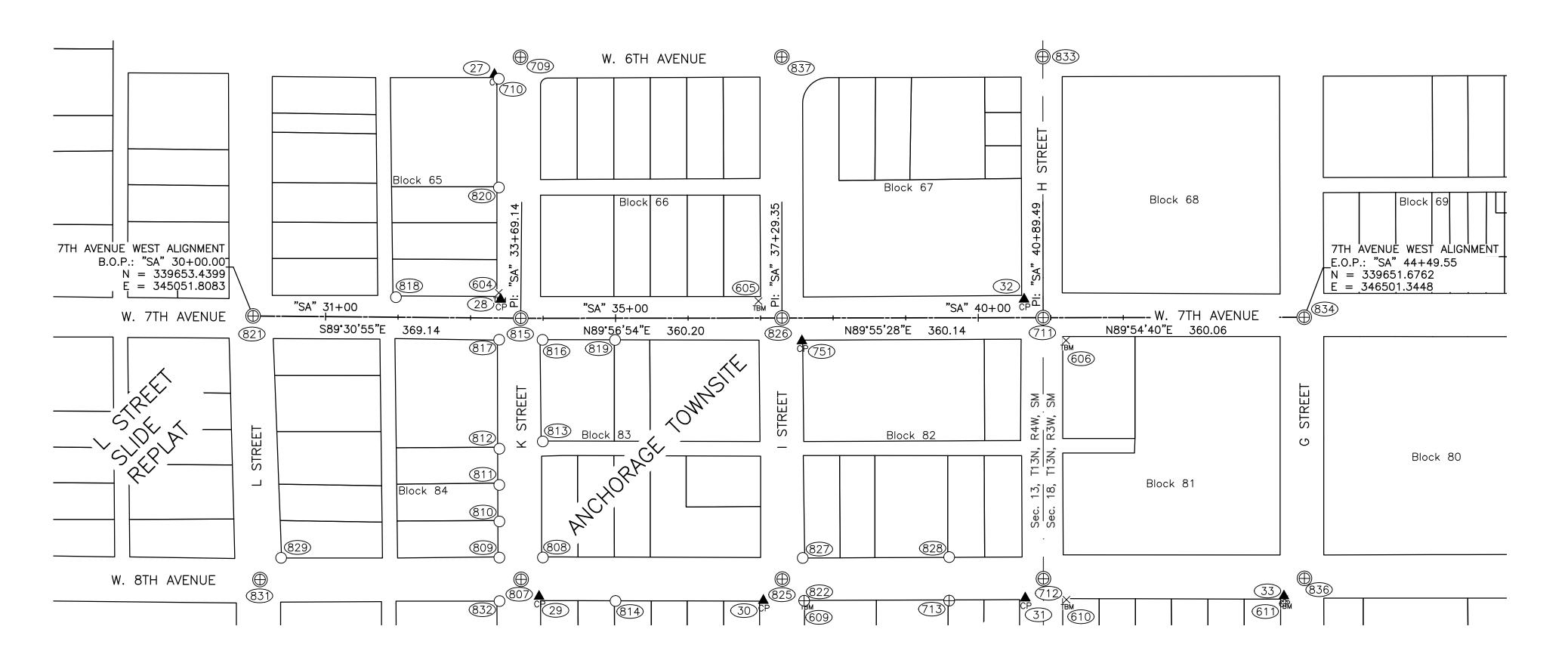
All elevations on control points and benchmarks need to be field verified before they are used.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

> DOWNTOWN W. 3RD AVENUE SURVEY CONTROL



SEE MONUMENT TABLES ON SHEET D: A3

HORIZONTAL CONTROL STATEMENT

<u>Coordinate System:</u>

This project is located entirely within the Anchorage Bowl 2000 adjustment, a local surface grid coordinate system expressed in U.S. Survey feet units developed by the Alaska Department of Transportation.

Basis of Coordinates:

The Basis of Coordinates is NGS Station O'Malley, located near the intersection of the New Seward Highway and O'Malley Road. Said station has Anchorage Bowl 2000 coordinates of 303939.2310 N, 353362.5446 E. U.S. Survey Feet.

Basis of Bearings:

The Basis of Bearings is a local plane bearing between NGS Station O'Malley and NGS Station Loop 2 USE RM 3 1964. NGS Station Loop 2 USE RM 3 1964 bears N 01°43'26.4"E a distance of 49488.4476 feet from NGS Station O'Malley. NGS Station Loop 2 USE RM 3 1964 has Anchorage Bowl 2000 coordinates of 353405.2778 N, 354851.3982 E. U.S. Survey Feet.

<u>Translation Parameters:</u>

To convert the local coordinates to NAD83 (92) State Plane coordinates expressed in U.S. Survey Feet, translate using +2296868.6878 N usf, +1312517.4904 E usf, and scale using 0.9998910192.

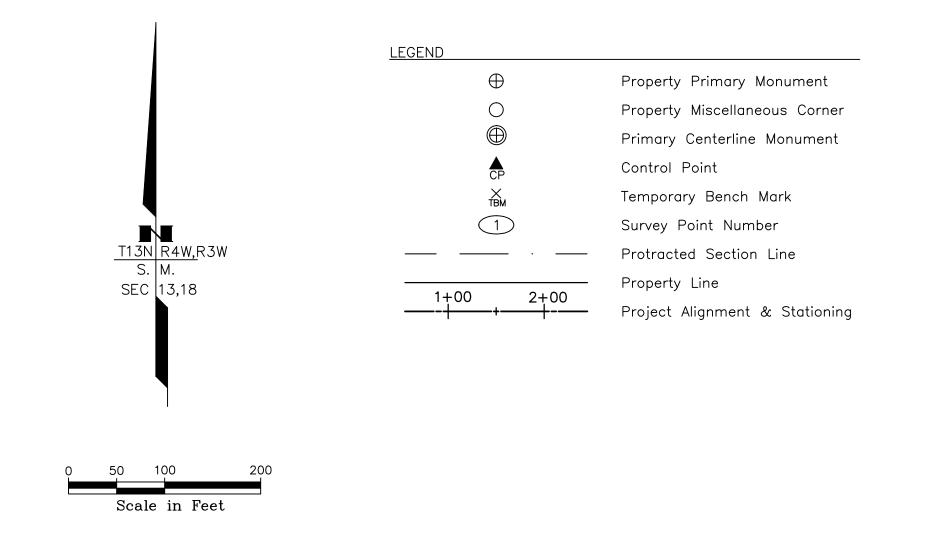
VERTICAL CONTROL STATEMENT

Elevations are based on the Municipality of Anchorage (MOA) Vertical Control Network. The datum is Mean Sea Level (MSL) GAAB 1972 Adjust and the unit of measure is U.S. Survey Feet.

The basis of elevations is MOA Bench Mark "CB-4C", a brass cap located in the southeast quadrant of the intersection of 12th Avenue and L Street, having a value of 90.88 feet above Mean Sea Level.

A Leica DNA10 digital level was used for all leveling on this project. The elevations were computed in Leica Digilev software using a length weighted adjustment. All of the level loops closed within Third—Order tolerances per Federal Geodetic Control Committee Standards and Specifications for Geodetic Control Networks.

All elevations on control points and benchmarks need to be field verified before they are used.



1. The information shown hereon is based on a field survey performed by DOWL in September through November 2006, and in October 2013. Background information depicted is shown for orientation purposes only and should not be used for any other purpose.

2. This survey was performed to provide survey control, adjoining boundary information, and design level topographic and feature mapping for the 2014 HSIP Anchorage Area Safety Improvements.

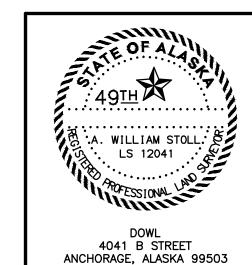
3. All dimensions and coordinates shown are in U.S. Survey Feet unless otherwise noted.

4. Title research was not performed as part of this survey, a thorough examination of land title is needed to ensure all easements, restrictions and rights are depicted.

5. Project control coordinates shown on this sheet were established by using least—squares adjusted forward and reverse angles collected by total station as well as static GPS.

6. It is the Contractor's responsibility to work around all monuments without disturbing the monument or case.

Whether listed or not, ALL monuments or property markers, corners, or accessories, which will be disturbed or buried, shall be referenced and re—established in their original position (A.S. 19.10.260) and recorded (A.S. 34.65.0440).



(907) 562-2000 AECL848

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HSIP: ANCHORAGE AREA

SAFETY IMPROVEMENTS

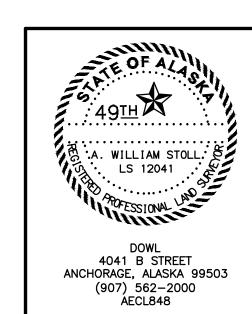
DOWNTOWN W. 7TH AVENUE - WEST SURVEY CONTROL

10.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	D:A3	D:A7
).	DATE	DATE REVISION	STATE	STATE PROJECT DESIGNATION	STATE PROJECT DESIGNATION TEAR	STATE PROJECT DESIGNATION TEAR NO.

			HORIZONTAL AND VERTICAL CONTROL - 7TH AVENUE WEST ALIGNMENT												
			NAD83(92) GEODET	LOCAL CO	ORDINATES	ELLIPSOID									
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	HEIGHT	ELEVATION	DESCRIPTION						
27	"SA" 33+29.97	336.03 LT	61° 12' 59.45261" N	149° 54′ 06.62217" W	339986.6627	345384.6093	125.38	97.30	Fd BC[6714-S]: HSIP-27						
28	"SA" 33+41.08	26.03 LT	61° 12' 56.39911" N	149° 54' 06.45842" W	339676.5795	345393.0948	124.63	96.56	Fd BC[6714-S]: HSIP-28						
29	"SA" 33+93.93	383.48 RT	61° 12′ 52.36380″ N	149° 54' 05.38944" W	339266.8559	345446.0669	123.82	95.71	Fd BC[6714-S]: HSIP-29						
30	"SA" 37+03.26	389.34 RT	61° 12' 52.30427" N	149° 53' 59.07379" W	339261.2800	345755.4035	126.47	98.32	Fd BC[6714-S]: HSIP-30						
751	"SA" 37+56.73	31.50 RT	61° 12' 55.82765" N	149° 53' 57.97708" W	339619.1769	345808.5675	_	98.51	Fd BC[6714-S]: CP						
32	"SA" 40+63.20	25.66 LT	61° 12' 56.38982" N	149° 53' 51.71923" W	339676.7425	346114.9652	126.77	98.60	Fd BC[6714-S]: HSIP-32						
31	"SA" 40+64.31	386.51 RT	61° 12' 52.33125" N	149° 53' 51.69875" W	339264.5794	346116.6133	126.37	98.19	Fd BC[6714-S]: HSIP-31						
33	"SA" 44+20.89	384.30 RT	61° 12' 52.35277" N	149° 53' 44.41655" W	339267.3291	346473.2771	127.96	99.76	Fd BC[6714-S]: HSIP-33						

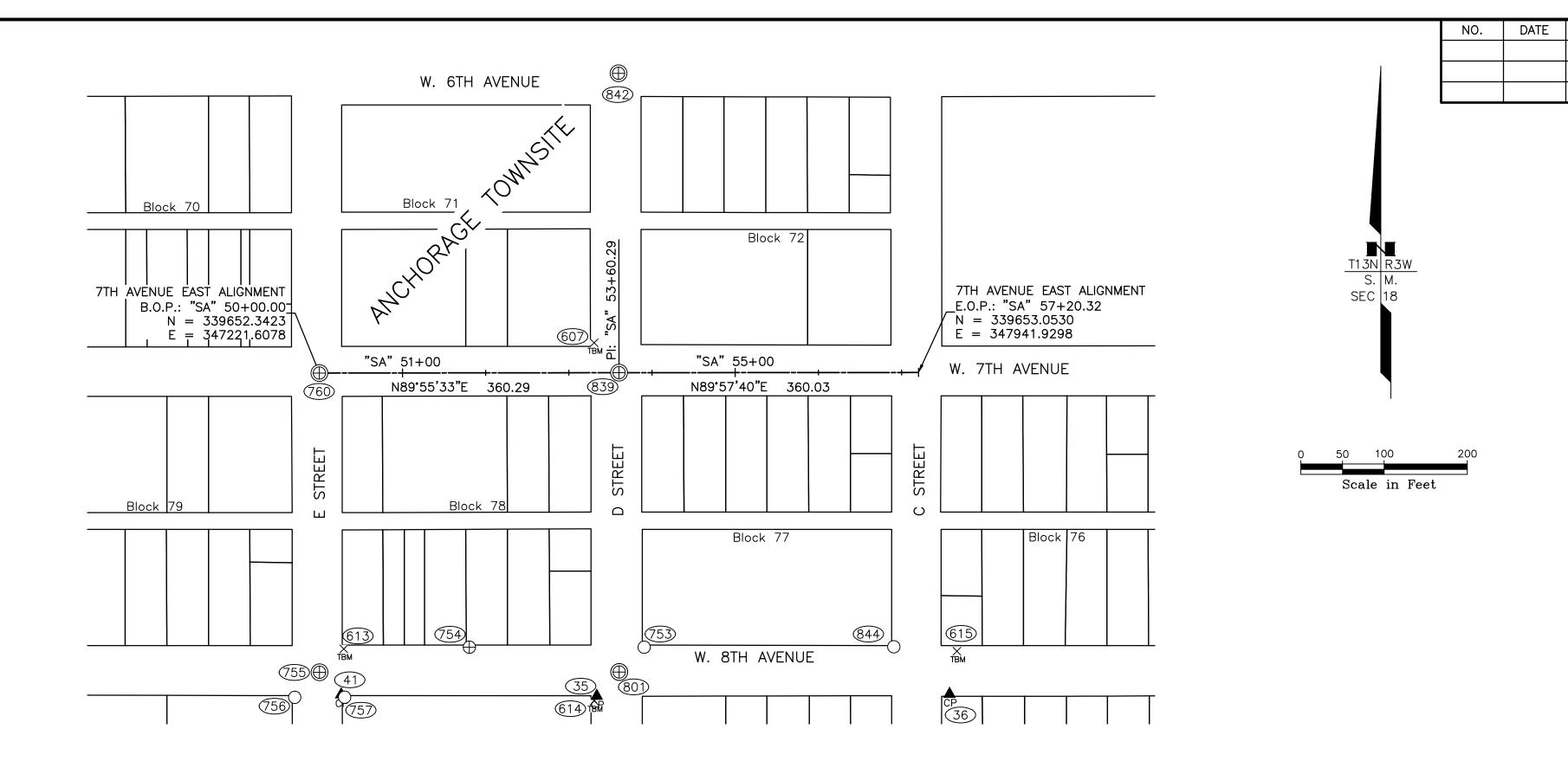
				RECOVERED MONUM	MENTS - 7TH AVENU	JE WEST ALIGNMENT	
			NAD83(92) GEODE	FIC COORDINATES	LOCAL CO	ORDINATES	
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	DESCRIPTION
821	"SA" 30+00.00	0.00	61° 12' 56.17626" N	149° 54' 13.42752" W	339653.4399	345051.8083	Fd AM/Bx: SI 7th Ave/L St
831	"SA" 30+12.56	363.48 RT	61° 12' 52.59602" N	149° 54' 13.24477" W	339289.8655	345061.2943	Fd AM/Bx[LS6091]: SI 8th Ave/L St
829	"SA" 30+41.47	333.27 RT	61° 12' 52.89069" N	149° 54' 12.64841" W	339319.8329	345090.4586	Fd IP/BC[MOA]: ROW/SW Cor L7A Blk 84 L Street Slide Replat Subd
818	"SA" 31+96.71	27.57 LT	61° 12' 56.42842" N	149° 54' 09.40559" W	339679.3400	345248.7491	Fd Rbr: ROW/SW Cor L6A Blk 65 L Street Slide Replat Subd
710	"SA" 33+35.93	329.98 LT	61° 12' 59.39251" N	149° 54' 06.50163" W	339980.5686	345390.5217	Fd Rbr: ROW/NE Cor L1C Blk 65 L Street Slide Replat Subd
820	"SA" 33+37.44	180.05 LT	61° 12' 57.91609" N	149° 54' 06.50134" W	339830.6315	345390.7612	Fd Rbr: ROW/SE Cor L1C Blk 65 L Street Slide Replat Subd
817	"SA" 33+39.51	29.85 RT	61° 12' 55.84913" N	149° 54' 06.50180" W	339620.7238	345391.0541	Fd IP: ROW/NE Cor L1B Blk 84 L Street Slide Replat Subd
812	"SA" 33+41.13	180.20 RT	61° 12' 54.36852" N	149° 54' 06.49933" W	339470.3613	345391.4009	Fd Rbr: ROW/SE Cor L1B Blk 84 L Street Slide Replat Subd
811	"SA" 33+41.40	230.29 RT	61° 12' 53.87529" N	149° 54′ 06.50401" W	339420.2714	345391.2470	Fd Rbr: ROW/SE Cor L4A Blk 84 L Street Slide Replat Subd
810	"SA" 33+41.95	280.53 RT	61° 12' 53.38052" N	149° 54′ 06.50288" W	339370.0254	345391.3778	Fd Rbr: ROW/SE Cor L5A Blk 84 L Street Slide Replat Subd
809	"SA" 33+42.46	330.40 RT	61° 12' 52.88944" N	149° 54' 06.50275" W	339320.1545	345391.4591	Fd Rbr: ROW/SE Cor L6A Blk 84 L Street Slide Replat Subd
832	"SA" 33+43.07	390.46 RT	61° 12' 52.29805" N	149° 54' 06.50247" W	339260.0965	345391.5628	Fd Rbr: ROW/NE Cor L1 Blk 96 L Street Slide Replat Subd
709	"SA" 33+65.66	360.02 LT	61° 12' 59.68531" N	149° 54' 05.88865" W	340010.3483	345420.4978	Fd BC[MOA]: SI 6th Ave/K St
815	"SA" 33+69.14	0.00	61° 12' 56.14009" N	149° 54' 05.89070" W	339650.3170	345420.9391	Fd AC/Bx: SI 7th Ave/K St
807	"SA" 33+69.36	360.09 RT	61° 12' 52.59427" N	149° 54' 05.89071" W	339290.2234	345421.4802	Fd AC/Bx: SI 8th Ave/K St
816	"SA" 33+99.16	29.94 RT	61° 12' 55.84506" N	149° 54' 05.27820" W	339620.4001	345450.9820	Fd IronRod: ROW/NW Cor L5A Blk 83 Anchorage Townsite Subd
813	"SA" 33+99.30	170.07 RT	61° 12' 54.46525" N	149° 54' 05.27703" W	339480.2748	345451.2507	Fd Rbr: ROW/SW Cor L5A Blk 83 Anchorage Townsite Subd
808	"SA" 33+99.34	330.01 RT	61° 12' 52.89028" N	149° 54' 05.27827" W	339320.3305	345451.4312	Fd Rbr: ROW/SW Cor L7 Blk 83 Anchorage Townsite Subd
819	"SA" 34+99.15	30.06 RT	61° 12' 55.84331" N	149° 54' 03.23662" W	339620.3735	345550.9719	Fd Rbr: ROW/NW Cor L4 Blk 83 Anchorage Townsite Subd
814	"SA" 34+99.45	390.10 RT	61° 12′ 52.29803″ N	149° 54' 03.23498" W	339260.3358	345551.5977	Fd Rbr: ROW/NW Cor L4 Blk 97 Anchorage Townsite Subd
826	"SA" 37+29.35	0.00	61° 12' 56.13790" N	149° 53' 58.53609" W	339650.6423	345781.1409	Fd Rbr/Bx: SI 7th Ave/I St
825	"SA" 37+29.36	360.11 RT	61° 12' 52.59194" N	149° 53' 58.53746" W	339290.5350	345781.6268	Fd AC/Bx: SI 8th Ave/I St
837	"SA" 37+29.51	360.05 LT	61° 12' 59.68332" N	149° 53' 58.53109" W	340010.6947	345780.8328	Fd Copperweld/Bx: SI 6th Ave/I St
827	"SA" 37+57.48	330.97 RT	61° 12' 52.87877" N	149° 53' 57.96307" W	339319.7072	345809.7146	Fd IP: ROW/SW Cor L7 Blk 82 Anchorage Townsite Subd
822	"SA" 37+59.33	390.05 RT	61° 12' 52.29701" N	149° 53' 57.92560" W	339260.6290	345811.6405	Fd AM/Conc[S10351]: ROW/NW Cor L5A Blk 98 Anchorage Townsite Subd
713	"SA" 39+59.40	390.15 RT	61° 12' 52.29564" N	149° 53′ 53.84079" W	339260.7997	346011.7063	Fd Pipe Mon[DOWL]: ROW/NE Cor L2 Blk 98 Anchorage Townsite Subd
828	"SA" 39+59.41	330.14 RT	61° 12' 52.88653" N	149° 53' 53.84023" W	339320.8073	346011.6404	Fd AC: ROW/SE Cor L9A Blk 82 Anchorage Townsite Subd
712	"SA" 40+89.43	360.14 RT	61° 12' 52.59085" N	149° 53' 51.18577" W	339290.9827	346141.6967	Fd AC[MOA]: SI 8th Ave/H St
711	"SA" 40+89.49	0.00	61° 12' 56.13709" N	149° 53' 51.18269" W	339651.1180	346141.2833	Fd AC[MOA]: SI 7th Ave/H St
833	"SA" 40+89.60	359.99 LT	61° 12' 59.68188" N	149° 53′ 51.18030″ W	340011.1066	346140.8360	Fd AC/Bx[LS6091]: SI 6th Ave/H St
836	"SA" 44+49.39	360.23 RT	61° 12' 52.58983" N	149° 53′ 43.83460″ W	339291.4492	346501.7414	Fd AC/Bx[7338-S]: SI 8th Ave/G St
834	"SA" 44+49.55	0.00	61° 12' 56.13697" N	149° 53′ 43.83094″ W	339651.6762	346501.3448	Fd AM/Bx[LS7338]: SI 7th Ave/G St

	VERTICAL CONTROL - 7TH AVENUE WEST ALIGNMENT												
			NAD83(92) GEODET	TIC COORDINATES	LOCAL CO	LOCAL COORDINATES							
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	ELEVATION	DESCRIPTION					
604	"SA" 33+38.62	34.77 LT	61° 12' 56.49" N	149° 54′ 06.51″ W	339685	345391	99.75	Set X on Bolt: TBM 2482-69A/Marked X on N bolt of FH/NW cor K St & 7th Ave					
605	"SA" 36+97.00	23.47 LT	61° 12' 56.37" N	149° 53′ 59.20″ W	339674	345749	98.86	Set X on Bolt: TBM 2482-70B/Marked X on SE bolt of metal light pole/NW cor I St & 7th Ave					
609	"SA" 37+62.04	388.78 RT	61° 12' 52.31" N	149° 53′ 57.87" W	339262	345814	98.89	Set X on Bolt: TBM 2482-71A/Marked X on SE Bolt of metal light pole/SE cor I St & 8th Ave					
610	"SA" 41+21.13	389.00 RT	61° 12' 52.32" N	149° 53' 50.54" W	339262	346174	99.14	Set X on Bolt: TBM 2482-71B/Marked X on N bolt of metal light pole/SE cor H St & 8th Ave					
606	"SA" 41+21.14	31.43 RT	61° 12' 55.83" N	149° 53' 50.54" W	339620	346173	99.24	Set X on Bolt: TBM 2482-69B/Marked X on NW bolt of Signal Pole base/SE cor H St & 7th Ave					
611	"SA" 44+21.93	388.68 RT	61° 12' 52.31" N	149° 53′ 44.40″ W	339263	346474	100.74	Set X in Bolt: TBM 2482-67/NE bolt of metal overhead sign pole base/SW cor G St & 8th Ave					



HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

DOWNTOWN
W. 7TH AVENUE — WEST
SURVEY CONTROL



	HORIZONTAL AND VERTICAL CONTROL — 7TH AVENUE EAST ALIGNMENT											
			NAD83(92) GEODE	LOCAL CO	LOCAL COORDINATES							
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	ELLIPSOID HEIGHT	ELEVATION	DESCRIPTION			
41	"SA" 50+25.57	386.58 RT	61° 12' 52.32527" N	149° 53′ 28.60535″ W	339265.7980	347247.6815	-	100.76	Set BC[6714-S]: HSIP-41			
35	"SA" 53+32.86	388.66 RT	61° 12' 52.30357" N	149° 53′ 22.33137" W	339264.1090	347554.9716	129.78	101.42	Fd BC[6714-S]: HSIP-35			
36	N/A	N/A	61° 12' 52.31967" N	149° 53' 13.67031" W	339266.4693	347979.1697	132.20	103.78	Fd BC[6714-S]: HSIP-36			

					VEF	RTICAL CONTROL	7TH AVENUE	E EAST ALIGNMENT
			NAD83(92) GEODETIC COORDINATES LOCAL COORDINATES		ORDINATES			
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	ELEVATION	DESCRIPTION
613	"SA" 50+28.92	331.83 RT	61° 12' 52.86" N	149° 53′ 28.54″ W	339321	347251	102.48	Set X on Bolt: TBM 2482-72A/Marked X on SW bolt of metal overhead sign pole/NE cor E St & 8th Ave
614	"SA" 53+29.93	394.68 RT	61° 12' 52.24" N	149° 53′ 22.39″ W	339258	347552	101.94	Set X on Bolt: TBM 2482-72B/Marked X on NE bolt of FH/SW cor D St & 8th Ave
607	"SA" 53+30.43	36.03 LT	61° 12' 56.49" N	149° 53′ 22.38″ W	339689	347552	105.83	Set X on Bolt: TBM 2482-73A/Marked X on NW bolt of FH/NW cor D St & 7th Ave
615	N/A	N/A	61° 12' 52.82" N	149° 53′ 13.48″ W	339318	347988	104.10	Set X on Bolt: TBM 2482-73B/Marked X on NW bolt of Metal Light Pole/NE cor C St & 8th Ave

				RECOVERED MONU	MENTS - 7TH AVENU	JE EAST ALIGNMENT	
			NAD83(92) GEODI	ETIC COORDINATES	LOCAL CO	ORDINATES	
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	DESCRIPTION
760	"SA" 50+00.00	0.00	61° 12′ 56.13197" N	149° 53′ 29.12459" W	339652.3423	347221.6078	Fd PC/Rbr/Bx[LS6091]: SI 7th Ave/E St
757	"SA" 50+29.85	390.05 RT	61° 12' 52.29107" N	149° 53′ 28.51813" W	339262.3318	347251.9588	Fd Rbr: ROW/NW Cor L1A Blk 102 Anchorage Townsite Subd
754	"SA" 51+79.83	330.11 RT	61° 12' 52.88073" N	149° 53′ 25.45532" W	339322.4649	347401.8688	Fd AM[6714-S]: ROW/SW Cor L12A Blk 78 Anchorage Townsite Subd
801	"SA" 53+60.01	360.16 RT	61° 12' 52.58418" N	149° 53′ 21.77689" W	339292.6520	347582.0807	Fd AC: SI 8th Ave/D St
842	"SA" 53+60.08	360.02 LT	61° 12' 59.67575" N	149° 53′ 21.76962″ W	340012.8311	347581.2183	Fd BC/Bx[S8922]: SI 6th Ave/D St
839	"SA" 53+60.29	0.00	61° 12' 56.13061" N	149° 53′ 21.76823" W	339652.8078	347581.8953	Fd AC/Bx: SI 7th Ave/D St
753	"SA" 53+90.16	330.21 RT	61° 12' 52.87874" N	149° 53′ 21.16507" W	339322.6170	347611.9957	Fd AC/Conc[3252-S]: ROW/SW Cor L7A Blk 77 Anchorage Townsite Subd
844	"SA" 56+90.38	329.98 RT	61° 12' 52.87798" N	149° 53′ 15.03541" W	339323.0523	347912.2123	Fd AC/Rbr[3262-S]: ROW/SE Cor L7A Blk 77 Anchorage Townsite Subd
755	N/A	N/A	61° 12' 52.58683" N	149° 53′ 29.13494″ W	339292.3179	347221.6990	Fd AM/Bx[6504]: SI 8th Ave/D St
756	N/A	N/A	61° 12' 52.29087" N	149° 53′ 29.74375" W	339262.2120	347191.9308	Fd AC/Conc[4094-S]: ROW/NE Cor L1A Blk 101 Anchorage Townsite Subo

HORIZONTAL CONTROL STATEMENT

ALASKA

REVISION

This project is located entirely within the Anchorage Bowl 2000 adjustment, a local surface grid coordinate system expressed in U.S. Survey feet units developed by the Alaska Department of Transportation.

PROJECT DESIGNATION

0001(344)/Z581970000

 \bigcirc

LEGEND

Basis of Coordinates:

The Basis of Coordinates is NGS Station O'Malley, located near the intersection of the New Seward Highway and O'Malley Road. Said station has Anchorage Bowl 2000 coordinates of 303939.2310 N, 353362.5446 E. U.S. Survey Feet.

TOTAL SHEETS

2017 D:A4 D:A7

Property Miscellaneous Corner

Primary Centerline Monument

Project Alignment & Stationing

Temporary Bench Mark

Survey Point Number

Control Point

Property Line

The Basis of Bearings is a local plane bearing between NGS Station O'Malley and NGS Station Loop 2 USE RM 3 1964. NGS Station Loop 2 USE RM 3 1964 bears N 01°43'26.4"E a distance of 49488.4476 feet from NGS Station O'Malley. NGS Station Loop 2 USE RM 3 1964 has Anchorage Bowl 2000 coordinates of 353405.2778 N, 354851.3982 E. U.S. Survey Feet.

To convert the local coordinates to NAD83 (92) State Plane coordinates expressed in U.S. Survey Feet, translate using +2296868.6878 N usf, +1312517.4904 E usf, and scale using 0.9998910192.

VERTICAL CONTROL STATEMENT

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The basis of elevations is MOA Bench Mark "CB—4C", a brass cap located in the southeast quadrant of the intersection of 12th Avenue and L Street, having a value of 90.88 feet above Mean Sea Level.

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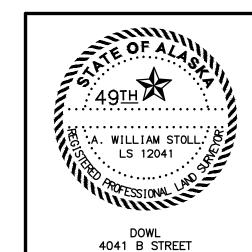
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1. The information shown hereon is based on a field survey performed by DOWL in September through November 2006, and in October 2013. Background information depicted is shown for orientation purposes only and should not be used for any other purpose.

2. This survey was performed to provide survey control, adjoining boundary information, and design level topographic and feature mapping for the 2014 HSIP Anchorage Area Safety Improvements.

- 3. All dimensions and coordinates shown are in U.S. Survey Feet unless otherwise noted.
- 4. Title research was not performed as part of this survey, a thorough examination of land title is needed to ensure all easements, restrictions and rights are depicted.
- 5. Project control coordinates shown on this sheet were established by using least—squares adjusted forward and reverse angles collected by total station as well as static GPS.
- 6. It is the Contractor's responsibility to work around all monuments without disturbing the monument or case.

Whether listed or not, ALL monuments or property markers, corners, or accessories, which will be disturbed or buried, shall be referenced and re—established in their original position (A.S. 19.10.260) and recorded (A.S. 34.65.0440).



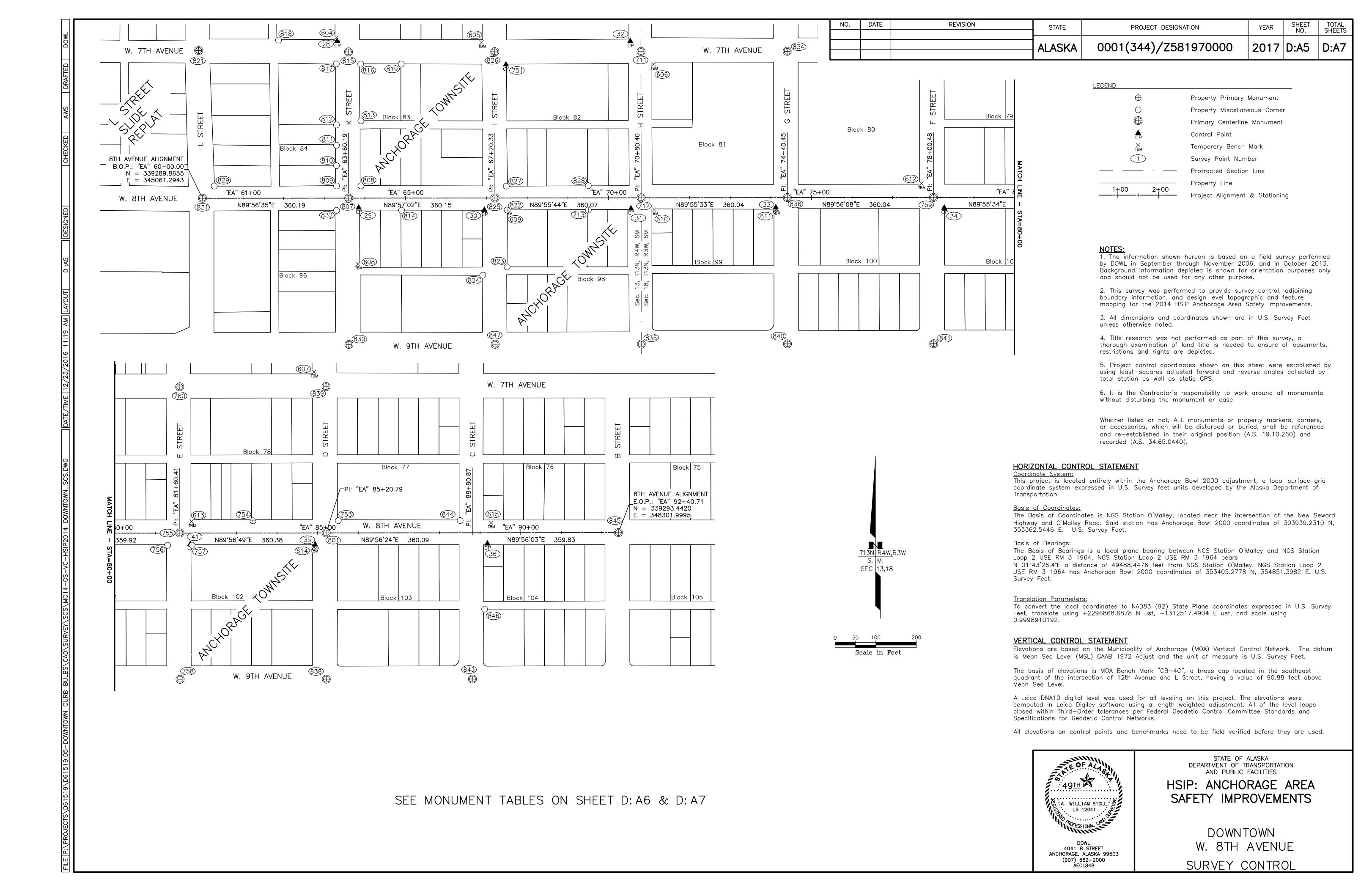
ANCHORAGE, ALASKA 99503 (907) 562-2000 AECL848

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES HSIP: ANCHORAGE AREA

STATE OF ALASKA

SAFETY IMPROVEMENTS

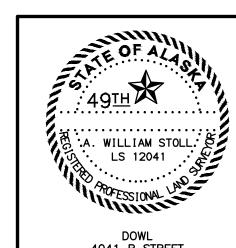
DOWNTOWN W. 7TH AVENUE - EAST SURVEY CONTROL



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	D:A6	D:A7

				HORIZONTAL AND VERTICAL	. CONTROL - 8TH A	VENUE ALIGNMENT			
			NAD83(92) GEODE	ETIC COORDINATES	LOCAL CO	ORDINATES	EL LIDCOID		
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	ELLIPSOID HEIGHT	ELEVATION	DESCRIPTION
28	"EA" 63+32.18	386.38 LT	61° 12' 56.39911" N	149° 54' 06.45842" W	339676.5795	345393.0948	124.63	96.56	Fd BC[6714-S]: HSIP-28
29	"EA" 63+84.75	23.39 RT	61° 12′ 52.36380" N	149° 54' 05.38944" W	339266.8559	345446.0669	123.82	95.71	Fd BC[6714-S]: HSIP-29
30	"EA" 66+94.08	29.23 RT	61° 12' 52.30427" N	149° 53' 59.07379" W	339261.2800	345755.4035	126.47	98.32	Fd BC[6714-S]: HSIP-30
751	"EA" 67+47.68	328.61 LT	61° 12' 55.82765" N	149° 53′ 57.97708" W	339619.1769	345808.5675	-	98.51	Fd BC[6714-S]: CP
32	"EA" 70+54.15	385.79 LT	61° 12' 56.38982" N	149° 53′ 51.71923" W	339676.7425	346114.9652	126.77	98.60	Fd BC[6714-S]: HSIP-32
31	"EA" 70+55.29	26.37 RT	61° 12' 52.33125" N	149° 53' 51.69875" W	339264.5794	346116.6133	126.37	98.19	Fd BC[6714-S]: HSIP-31
33	"EA" 74+11.95	24.08 RT	61° 12' 52.35277" N	149° 53′ 44.41655″ W	339267.3291	346473.2771	127.96	99.76	Fd BC[6714-S]: HSIP-33
34	"EA" 78+26.71	25.41 RT	61° 12' 52.33780" N	149° 53' 35.94836" W	339266.4777	346888.0337	127.89	99.62	Fd BC[6714-S]: HSIP-36
41	"EA" 81+86.36	26.54 RT	61° 12' 52.32527" N	149° 53′ 28.60535″ W	339265.7980	347247.6815	-	100.76	Set BC[6714-S]: HSIP-41
35	"EA" 84+93.65	28.52 RT	61° 12′ 52.30357" N	149° 53′ 22.33137" W	339264.1090	347554.9716	129.78	101.42	Fd BC[6714-S]: HSIP-35
36	"EA" 89+17.85	26.60 RT	61° 12' 52.31967" N	149° 53' 13.67031" W	339266.4693	347979.1697	132.20	103.78	Fd BC[6714-S]: HSIP-36

						VERTICAL	CONTROL - 8T	TH AVENUE ALIGNMENT
			NAD83(92) GEODET	TIC COORDINATES	LOCAL CO	ORDINATES		
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	ELEVATION	DESCRIPTION
604	"EA" 63+29.81	395.16 LT	61° 12' 56.49" N	149° 54' 06.51" W	339685	345391	99.75	Set X on Bolt: TBM 2482-69A/Marked X on N bolt of FH/NW cor K St & 7th Ave
608	"EA" 63+83.55	161.90 RT	61° 12' 51.00" N	149° 54' 05.42" W	339128	345445	100.20	Set X on Bolt: TBM 2482-70A/Marked X on top of N FH Bolt near alley/E side of K St between 8th & 9th Ave
605	"EA" 66+87.81	383.58 LT	61° 12' 56.37" N	149° 53' 59.20" W	339674	345749	98.86	Set X on Bolt: TBM 2482-70B/Marked X on SE bolt of metal light pole/NW cor I St & 7th Ave
609	"EA" 67+53.02	28.67 RT	61° 12' 52.31" N	149° 53' 57.87" W	339262	345814	98.89	Set X on Bolt: TBM 2482-71A/Marked X on SE Bolt of metal light pole/SE cor I St & 8th Ave
606	"EA" 71+12.11	328.72 LT	61° 12' 55.83" N	149° 53' 50.54" W	339620	346173	99.24	Set X on Bolt: TBM 2482-69B/Marked X on NW bolt of Signal Pole base/SE cor H St & 7th Ave
610	"EA" 71+12.19	28.85 RT	61° 12' 52.31" N	149° 53' 50.54" W	339262	346174	99.14	Set X on Bolt: TBM 2482-71B/Marked X on N bolt of metal light pole/SE cor H St & 8th Ave
611	"EA" 74+13.00	28.46 RT	61° 12' 52.31" N	149° 53′ 44.40″ W	339263	346474	100.74	Set X in Bolt: TBM 2482-67/NE bolt of metal overhead sign pole base/SW cor G St & 8th Ave
612	"EA" 77+70.60	34.24 LT	61° 12' 52.93" N	149° 53' 37.09" W	339326	346832	100.79	Set Chiseled X: TBM 2482-54/Concrete building foundation SE corner of Dena'ina Center/NW cor F St & 8th Ave
613	"EA" 81+89.69	28.21 LT	61° 12' 52.86" N	149° 53' 28.54" W	339321	347251	102.48	Set X on Bolt: TBM 2482-72A/Marked X on SW bolt of metal overhead sign pole/NE cor E St & 8th Ave
614	"EA" 84+90.72	34.53 RT	61° 12' 52.24" N	149° 53' 22.39" W	339258	347552	101.94	Set X on Bolt: TBM 2482-72B/Marked X on NE bolt of FH/SW cor D St & 8th Ave
607	"EA" 84+91.06	396.17 LT	61° 12′ 56.49″ N	149° 53' 22.38" W	339689	347552	105.83	Set X on Bolt: TBM 2482-73A/Marked X on NW bolt of FH/NW cor D St & 7th Ave
615	"EA" 89+26.90	24.66 LT	61° 12' 52.82" N	149° 53' 13.48" W	339318	347988	104.10	Set X on Bolt: TBM 2482-73B/Marked X on NW bolt of Metal Light Pole/NE cor C St & 8th Ave



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA
SAFETY IMPROVEMENTS

DOWNTOWN

HO41 B STREET

ANCHORAGE, ALASKA 99503

(907) 562-2000

AECL848

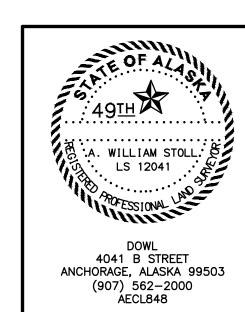
DOWNTOWN

W. 8TH AVENUE

SURVEY CONTROL

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEET
			ALASKA	0001(344)/Z581970000	2017	D:A7	D:A7

	Γ	Г			ONUMENTS - 8TH A	1	
			<u> </u>	ETIC COORDINATES	LOCAL CO		
POINT	STATION	OFFSET	LATITUDE	LONGITUDE	NORTHING	EASTING	DESCRIPTION
831	"EA" 60+00.00	0.00	61° 12' 52.59602" N	149° 54' 13.24477" W	339289.8655	345061.2943	Fd AM/Bx[LS6091]: SI 8th Ave/L St
829	"EA" 60+29.19	29.94 LT	61° 12' 52.89069" N	149° 54' 12.64841" W	339319.8329	345090.4586	Fd IP/BC[MOA]: ROW/SW Cor L7A Blk 84 L Street Slide Replat Subd
818	"EA" 61+87.84	389.29 LT	61° 12' 56.42842" N	149° 54' 09.40559" W	339679.3400	345248.7491	Fd Rbr: ROW/SW Cor L6A Blk 65 L Street Slide Replat Subd
811	"EA" 63+30.08	130.08 LT	61° 12' 53.87529" N	149° 54' 06.50401" W	339420.2714	345391.2470	Fd Rbr: ROW/SE Cor L4A Blk 84 L Street Slide Replat Subd
817	"EA" 63+30.09	330.53 LT	61° 12' 55.84913" N	149° 54' 06.50180" W	339620.7238	345391.0541	Fd IP: ROW/NE Cor L1B Blk 84 L Street Slide Replat Subd
810	"EA" 63+30.16	79.83 LT	61° 12' 53.38052" N	149° 54' 06.50288" W	339370.0254	345391.3778	Fd Rbr: ROW/SE Cor L5A Blk 84 L Street Slide Replat Subd
809	"EA" 63+30.19	29.96 LT	61° 12' 52.88944" N	149° 54' 06.50275" W	339320.1545	345391.4591	Fd Rbr: ROW/SE Cor L6A Blk 84 L Street Slide Replat Subd
832	"EA" 63+30.24	30.10 RT	61° 12' 52.29805" N	149° 54' 06.50247" W	339260.0965	345391.5628	Fd Rbr: ROW/NE Cor L1 Blk 96 L Street Slide Replat Subd
812	"EA" 63+30.29	180.17 LT	61° 12' 54.36852" N	149° 54' 06.49933" W	339470.3613	345391.4009	Fd Rbr: ROW/SE Cor L1B Blk 84 L Street Slide Replat Subd
815	"EA" 63+60.00	360.09 LT	61° 12' 56.14009" N	149° 54' 05.89070" W	339650.3170	345420.9391	Fd AC/Bx: SI 7th Ave/K St
307	"EA" 63+60.19	0.00	61° 12' 52.59427" N	149° 54' 05.89071" W	339290.2234	345421.4802	Fd AC/Bx: SI 8th Ave/K St
330	"EA" 63+60.42	360.14 RT	61° 12′ 49.04804″ N	149° 54' 05.89069" W	338930.0892	345422.0230	Fd AC/Bx[LS6091]: SI 8th Ave/I St
316	"EA" 63+89.97	330.15 LT	61° 12' 55.84506" N	149° 54' 05.27820" W	339620.4001	345450.9820	Fd IronRod: ROW/NW Cor L5A Blk 83 Anchorage Townsite Subd
313	"EA" 63+90.12	190.03 LT	61° 12' 54.46525" N	149° 54' 05.27703" W	339480.2748	345451.2507	Fd Rbr: ROW/SW Cor L5A Blk 83 Anchorage Townsite Subd
308	"EA" 63+90.16	30.08 LT	61° 12' 52.89028" N	149° 54' 05.27827" W	339320.3305	345451.4312	Fd Rbr: ROW/SW Cor L7 Blk 83 Anchorage Townsite Subd
319	"EA" 64+89.96	330.04 LT	61° 12' 55.84331" N	149° 54' 03.23662" W	339620.3735	345550.9719	Fd Rbr: ROW/NW Cor L4 Blk 83 Anchorage Townsite Subd
314	"EA" 64+90.28	30.00 RT	61° 12' 52.29803" N	149° 54' 03.23498" W	339260.3358	345551.5977	Fd Rbr: ROW/NW Cor L4 Blk 97 Anchorage Townsite Subd
 324	"EA" 66+90.37	190.08 RT		149° 53' 59.15176" W	339100.4251	345751.8311	Fd Rbr/YPC[LS7338]: ROW/NE Cor L9A Blk 97 Anchorage Townsite Subd
 326	"EA" 67+20.16	360.11 LT	61° 12' 56.13790" N	149° 53' 58.53609" W	339650.6423	345781.1409	Fd Rbr/Bx: SI 7th Ave/I St
325	"EA" 67+20.33	0.00	61° 12' 52.59194" N	149° 53' 58.53746" W	339290.5350	345781.6268	Fd AC/Bx: SI 8th Ave/I St
347	"EA" 67+20.33	360.13 RT	61° 12' 49.04575" N	149° 53' 58.53993" W	338930.4041	345782.0591	Fd AC/Bx[LS6091]: SI 9th Ave/I St
327	"EA" 67+48.46	29.14 LT	61° 12' 52.87877" N	149° 53' 57.96307" W	339319.7072	345809.7146	Fd IP: ROW/SW Cor L7 Blk 82 Anchorage Townsite Subd
323	"EA" 67+50.19	169.91 RT	61° 12' 50.91879" N	149° 53' 57.92889" W	339120.6649	345811.6949	Fd Rbr/OPC[S10351]: ROW/SW Cor L5A Blk 98 Anchorage Townsite Subd
322	"EA" 67+50.31	29.94 RT	61° 12' 52.29701" N	149° 53' 57.92560" W	339260.6290	345811.6405	Fd AM/Conc[S10351]: ROW/NW Cor L5A Blk 98 Anchorage Townsite Subd
713	"EA" 69+50.38	30.02 RT	61° 12' 52.29564" N	149° 53' 53.84079" W	339260.8290	346011.7063	Fd Pipe Mon[DOWL]: ROW/NE Cor L2 Blk 98 Anchorage Townsite Subd
						346011.7063	
328	"EA" 69+50.38	29.99 LT	61° 12' 52.88653" N	149° 53' 53.84023" W	339320.8073		Fd AC: ROW/SE Cor L9A Blk 82 Anchorage Townsite Subd
335	"EA" 70+80.38	360.09 RT	61° 12' 49.04508" N	149° 53' 51.18871" W	338930.8949	346142.1170	Fd IR/Bx: SI 9th Ave/H St
712	"EA" 70+80.40	0.00	61° 12' 52.59085" N	149° 53' 51.18577" W	339290.9827	346141.6967	Fd AC[MOA]: SI 8th Ave/H St
711	"EA" 70+80.46	360.14 LT	61° 12' 56.13709" N	149° 53' 51.18269" W	339651.1180	346141.2833	Fd AC[MOA]: SI 7th Ave/H St
340	"EA" 74+40.40	360.15 RT	61° 12' 49.04347" N	149° 53' 43.83777" W	338931.3013	346502.1618	Fd AC/Bx[LS6091]: SI 9th Ave/G St
336	"EA" 74+40.45	0.00	61° 12' 52.58983" N	149° 53′ 43.83460″ W	339291.4492	346501.7414	Fd AC/Bx[7338-S]: SI 8th Ave/G St
334	"EA" 74+40.46	360.23 LT	61° 12' 56.13697" N	149° 53' 43.83094" W	339651.6762	346501.3448	Fd AM/Bx[LS7338]: SI 7th Ave/G St
759	"EA" 78+00.48	0.00	61° 12' 52.58809" N	149° 53' 36.48359" W	339291.8533	346861.7781	Fd AM/Bx[7338-S]: SI 8th Ave/F St
341	"EA" 78+00.48	360.11 RT	61° 12' 49.04213" N	149° 53' 36.48731" W	338931.7460	346862.1827	Fd AC/Bx[LS6091]: SI 9th Ave/F St
756	"EA" 81+30.60	30.07 R	61° 12' 52.29087" N	149° 53' 29.74375" W	339262.2120	347191.9308	Fd AC/Conc[4094-S]: ROW/NE Cor L1A Blk 101 Anchorage Townsite Subd
755	"EA" 81+60.41	0.00	61° 12' 52.58683" N	149° 53' 29.13494" W	339292.3179	347221.6990	Fd AM/Bx[6504]: SI 8th Ave/D St
760	"EA" 81+60.65	360.02 LT	61° 12' 56.13197" N	149° 53' 29.12459" W	339652.3423	347221.6078	Fd PC/Rbr/Bx[LS6091]: SI 7th Ave/E St
758	"EA" 81+60.72	360.16 RT	61° 12′ 49.04039″ N	149° 53' 29.13395" W	338932.1619	347222.3454	Fd Copperweld/Bx: SI 9th Ave/E St
757	"EA" 81+90.64	30.01 RT	61° 12' 52.29107" N	149° 53' 28.51813" W	339262.3318	347251.9588	Fd Rbr: ROW/NW Cor L1A Blk 102 Anchorage Townsite Subd
754	"EA" 83+40.60	29.98 LT	61° 12' 52.88073" N	149° 53' 25.45532" W	339322.4649	347401.8688	Fd AM[6714-S]: ROW/SW Cor L12A Blk 78 Anchorage Townsite Subd
301	"EA" 85+20.79	0.00	61° 12' 52.58418" N	149° 53' 21.77689" W	339292.6520	347582.0807	Fd AC: SI 8th Ave/D St
338	"EA" 85+20.79	360.18 RT	61° 12′ 49.03750″ N	149° 53' 21.78232" W	338932.4715	347582.4242	Fd AC/Bx[LS6091]: SI 9th Ave/D St
339	"EA" 85+20.98	360.16 LT	61° 12' 56.13061" N	149° 53' 21.76823" W	339652.8078	347581.8953	Fd AC/Bx: SI 7th Ave/D St
753	"EA" 85+50.73	29.93 LT	61° 12' 52.87874" N	149° 53' 21.16507" W	339322.6170	347611.9957	Fd AC/Conc[3252-S]: ROW/SW Cor L7A Blk 77 Anchorage Townsite Subd
844	"EA" 88+50.95	30.06 LT	61° 12' 52.87798" N	149° 53' 15.03541" W	339323.0523	347912.2123	Fd AC/Rbr[3262-S]: ROW/SE Cor L7A Blk 77 Anchorage Townsite Subd
343	"EA" 88+80.79	360.09 RT	61° 12′ 49.03609″ N	149° 53' 14.43155" W	338932.9431	347942.4605	Fd AC/Bx[LS6091]: SI 9th Ave/C St
846	"EA" 89+10.71	187.99 RT	61° 12' 50.73053" N	149° 53' 13.81786" W	339105.0728	347972.2215	Fd Rbr/YPC[LS3143]: ROW/NW Cor L7A Blk 104 Anchorage Townsite Subd
345	"EA" 92+40.71	0.00	61° 12' 52.57974" N	149° 53' 07.07803" W	339293.4420	348301.9995	Fd AC/Bx: SI 8th Ave/B St
	N/A	N/A	61° 12' 56.17626" N	149° 54' 13.42752" W	339653.4399	345051.8083	Fd AM/Bx: SI 7th Ave/L St



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA
SAFETY IMPROVEMENTS

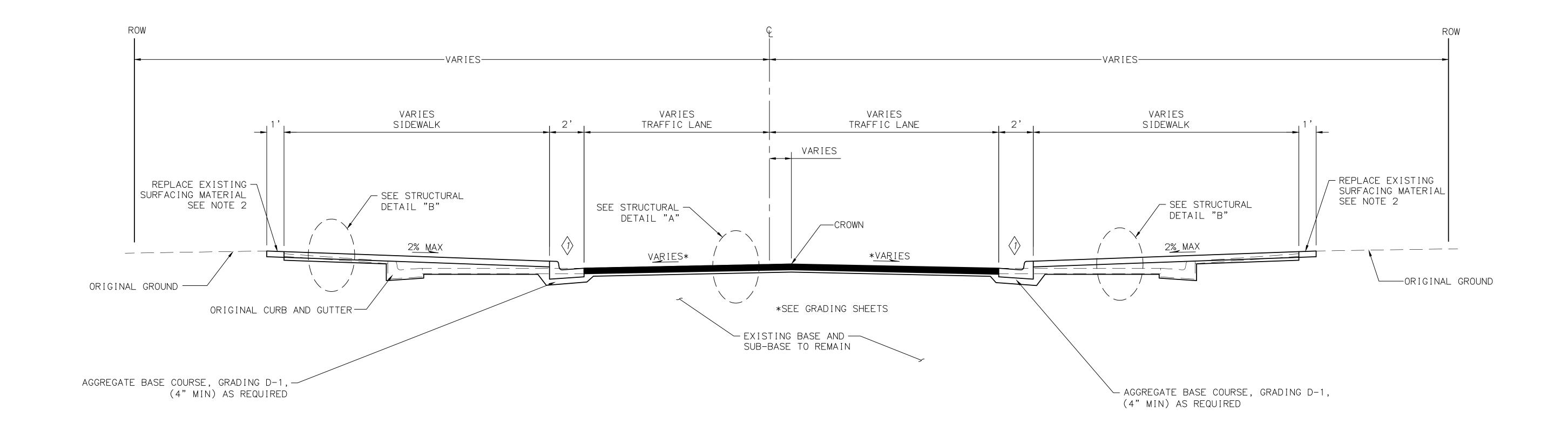
SAFETY IMPROVEMENTS

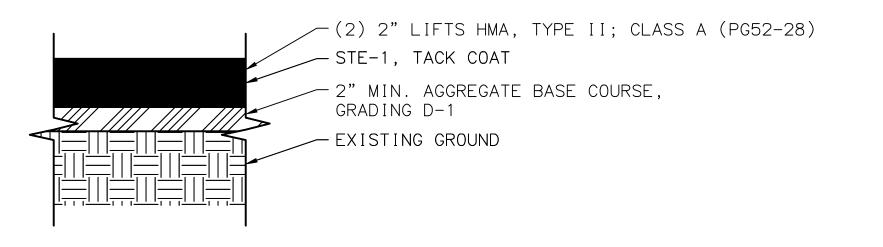
DOWNTOWN
W. 8TH AVENUE
SURVEY CONTROL

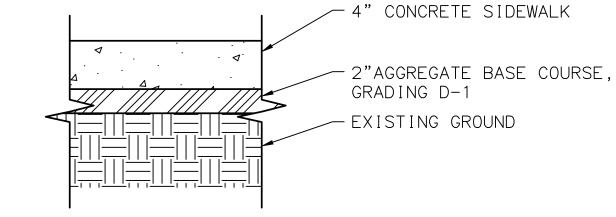
SHEET NO. TOTAL SHEETS NO. DATE REVISION PROJECT DESIGNATION STATE 0001(344)/Z581970000 ALASKA 2017 D: B1 D: B1

GENERAL NOTES:

- 1. FOR CURB AND GUTTER DETAIL SEE SHEET E1.
- 2. REPLACE EXISTING SURFACING MATERIAL SHALL BE SUBSIDIARY TO ITEM 608(1a), CONCRETE SIDEWALK, 4 INCHES THICK.

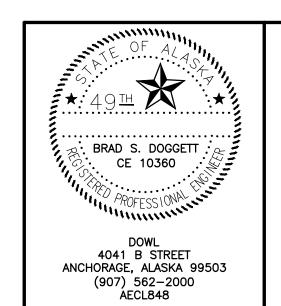






ROADWAY STRUCTURAL DETAIL "A"

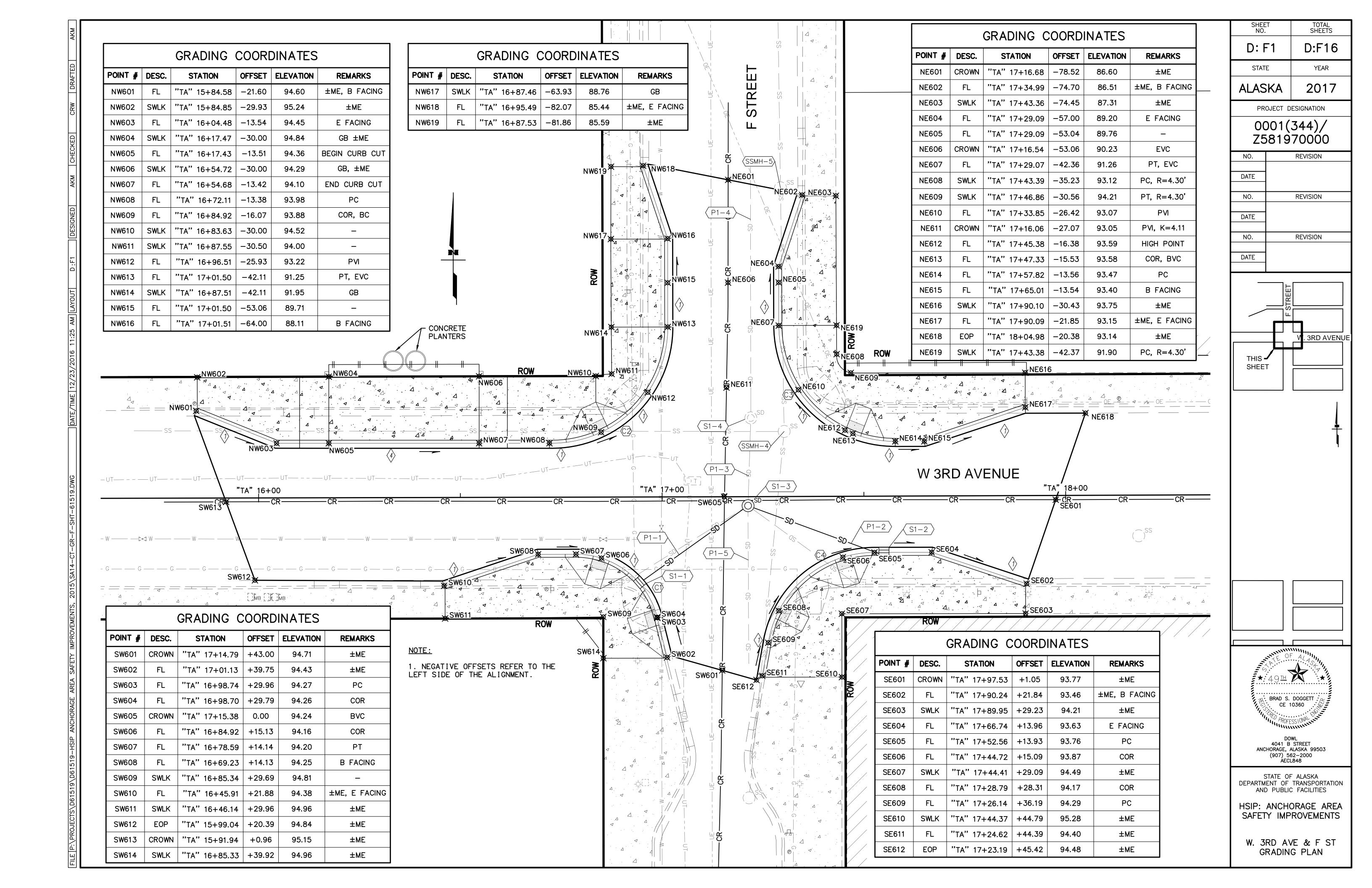
SIDEWALK STRUCTURAL DETAIL "B"



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

DOWNTOWN CURB BULBS TYPICAL SECTIONS



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	D:F2	D:F16

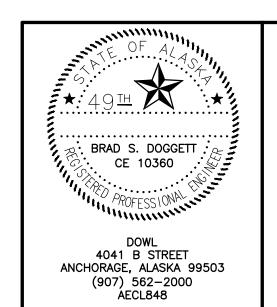
	CURVE TABLE									
POINT	STATION	OFFSET	RADIUS	REMARKS						
C1	"TA" 16+78.58	+34.89'	20'	TBC						
C2	"TA" 16+72.75	-42.12'	28'	TBC						
C3	"TA" 17+57.82	-42.31'	28'	TBC						
C4	"TA" 17+52.51	+40.69'	26'	TBC						

	STRUCTURE SUMMARY											
STRUCTURE ID	TYPE	STATION	STRUCTURE OFFSET	CASTING ELEVATION	CASTING TYPE	PIPES IN	PIPES OUT	REMARKS				
S1-1	MOA CB	"TA"16+93.65	+21.78'	94.60'	CURB INLET		P1-1 = 89.35'	-				
S1-2	MOA CB	"TA"17+54.91	+14.69'	94.22'	CURB INLET		P1-2 = 88.97'	_				
S1-3	TYPE I	"TA"17+21.27	+2.23'	94.20'	MANHOLE	P1-1 = 89.01' P1-2 = 88.61' P1-5 = 86.49'	P1-3 = 86.85'	REPLACE EXISTING				
S1-4	TYPE I	"TA"17+22.05	-19.51'	93.53'	MANHOLE	P1-3 = 86.55'	P1-4 = 85.66'	ADJUST EXISTING				
SSMH-4	SSMH	"TA"17+30.29	-16.12'	93.65'	MANHOLE			ADJUST EXISTING				
SSMH-5	SSMH	"TA"17+29.63	-76.48	86.54	MANHOLE			ADJUST EXISTING				

	STORM DRAIN PIPE SUMMARY										
PIPE ID	SIZE (IN)	TYPE	LENGTH (FT)	GRADE (%)	DIRECTION FROM	DIRECTION TO	REMARKS				
P1-1	12"	CPEP	34	1.0%	S1-1	S1-3					
P1-2	12"	CPEP	36	1.0%	S1-2	S1-3					
P1-3	12"	CPEP	22	1.4%	S1-3	S1-4	EXISTING				
P1-4	12"	CPEP			S1-4		EXISTING				
P1-5	10"	CPEP				S1-3	EXISTING				

NOTE:

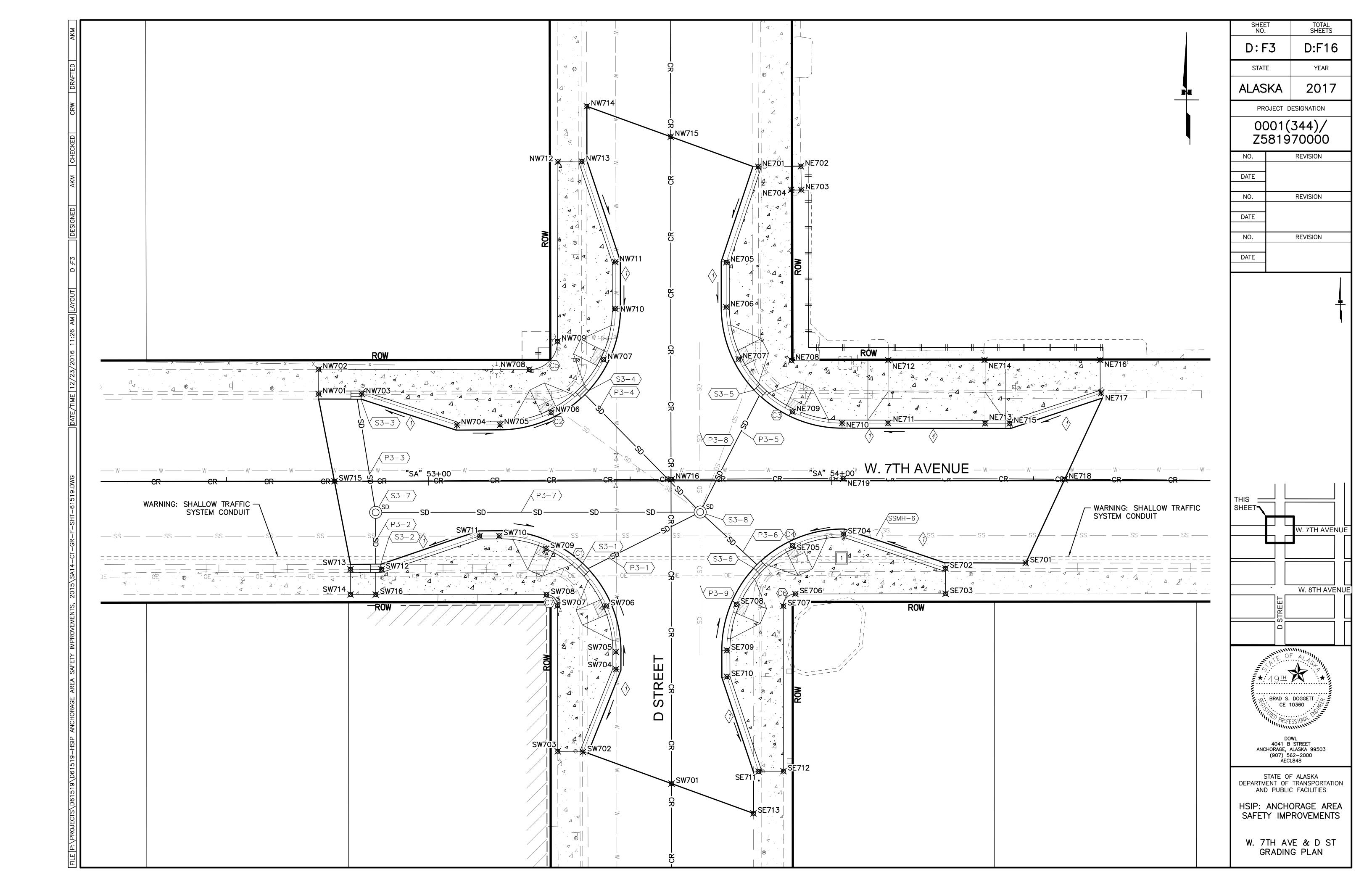
1. NEGATIVE OFFSETS REFER TO THE LEFT SIDE OF THE ALIGNMENT.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

W. 3RD AVE & F ST GRADING PLAN



	ı	GRAI
POINT #	DESC.	SI
NW701	FL	"SA"
NW702	SWLK	"SA"
NW703	FL	"SA"
NW704	FL	"SA"
NW705	FL	"SA"
NW706	FL	"SA"
NW707	FL	"SA"
NW708	SWLK	"SA"
NW709	SWLK	"SA"

	ı	GRADING C	OORD	INATES		
POINT #	DESC.	STATION	OFFSET ELEVATION		REMARKS	
NW701	FL	"SA" 52+72.85	-21.63	102.23	±ME	
NW702	SWLK	"SA" 52+72.86	-27.77	102.64	±ME	
NW703	FL	"SA" 52+83.55	-21.61	101.93	B FACING	
NW704	FL	"SA" 53+07.12	-13.89	102.09	E FACING	
NW705	FL	"SA" 53+17.79	-13.94	102.15	PC	
NW706	FL	"SA" 53+30.45	-16.95	101.93	COR	
NW707	FL	"SA" 53+43.47	-30.05	101.84	COR	
NW708	SWLK	"SA" 53+25.03	-27.63	102.62	PC	
NW709	SWLK	"SA" 53+32.05	-34.60	102.49	PT	
NW710	FL	"SA" 53+46.39	-42.65	101.91	PT	
NW711	FL	"SA" 53+46.41	-54.23	101.98	B FACING	
NW712	SWLK	"SA" 53+32.21	-79.08	102.66	±ME	
NW713	FL	"SA" 53+38.14	-79.15	102.12	±ME, E FACING	
NW714	EOP	"SA" 53+39.40	-92.82	102.15	±ME	
NW715	CROWN	"SA" 53+60.18	-85.27	102.59	±ME	
NW716	CROWN	"SA" 53+60.29	-0.37	102.47	PT	

GRADING COORDINATES										
POINT #	DESC.	STATION	OFFSET	ELEVATION	REMARKS					
SW702	FL	"SA" 53+38.23	+67.15	102.06	±ME, B FACING					
SW703	SWLK	"SA" 53+31.99	+66.97	102.67	±ME					
SW704	FL	"SA" 53+46.43	+46.65	102.26	E FACING					
SW705	FL	"SA" 53+46.43	+42.35	102.23	PC					
SW706	FL	"SA" 53+44.10	+30.98	102.17	COR					
SW707	SWLK	"SA" 53+31.99	+30.91	102.75	PC					
SW708	SWLK	"SA" 53+29.24	+28.16	102.76	PT					
SW709	FL	"SA" 53+29.13	+16.76	102.22	COR					
SW710	FL	"SA" 53+17.53	+13.56	102.25	PT					
SW711	FL	"SA" 53+12.70	+13.59	102.28	B FACING					
SW712	FL	"SA" 52+88.39	+21.82	102.10	E FACING					
SW713	FL	"SA" 52+80.68	+21.80	102.09	±ME					
SW714	SWLK	"SA" 52+80.68	+28.05	102.83	±ME					
SW715	CROWN	"SA" 52+76.74	0.00	102.43	±ME					
SW716	FL	"SA" 52+86.92	+28.07	102.10	E FACING					

		GRADING (COORD	INATES	
POINT #	DESC.	STATION	OFFSET	ELEVATION	REMARKS
NE701	FL	"SA" 53+81.79	-77.81	102.22	±ME, B FACING
NE702	SWLK	"SA" 53+92.39	-77.91	102.98	±ME
NE703	SWLK	"SA" 53+92.47	-72.05	102.99	_
NE704	SWLK	"SA" 53+89.96	-72.09	102.88	_
NE705	FL	"SA" 53+73.88	-54.13	102.08	E FACING
NE706	FL	"SA" 53+73.87	-43.04	102.02	PC
NE707	FL	"SA" 53+76.91	-30.15	101.94	COR
NE708	FL	"SA" 53+90.00	-29.82	102.62	_
NE709	FL	"SA" 53+90.25	-17.07	101.99	COR
NE710	FL	"SA" 54+02.55	-14.27	102.14	PT
NE711	FL	"SA" 54+13.93	-14.24	102.26	BEGIN CURB CUT
NE712	SWLK	"SA" 54+13.97	-29.86	102.88	±ME, GB
NE713	FL	"SA" 54+37.98	-14.18	102.53	END CURB CUT
NE714	SWLK	"SA" 54+37.86	-29.88	103.15	±ME, GB
NE715	FL	"SA" 54+44.10	-14.17	102.59	B FACING
NE716	SWLK	"SA" 54+66.53	-29.84	101.40	PT, ±ME
NE717	FL	"SA" 54+66.74	-21.65	102.86	±ME, E FACING
NE718	CROWN	"SA" 54+57.70	-0.32	103.24	±ME
NE719	CROWN	"SA" 54+02.82	-0.52	102.64	PROFILE GB

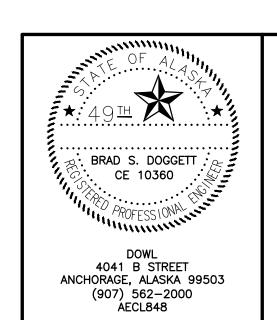
		GRADING	COOR	DINATES	5
POINT #	DESC.	STATION	OFFSET	ELEVATION	REMARKS
SE701	EOP	"SA" 54+48.02	+20.42	102.75	±ME
SE702	FL	"SA" 54+28.16	+21.72	102.51	PT, ±ME, B FACING
SE703	SWLK	"SA" 54+28.17	+28.02	103.13	±ME
SE704	FL	"SA" 54+02.90	+13.23	102.36	PC, E FACING
SE705	FL	"SA" 53+90.24	+16.07	102.28	COR
SE706	SWLK	"SA" 53+90.94	+28.04	102.90	PC
SE707	SWLK	"SA" 53+87.94	+31.04	102.87	PT
SE708	FL	"SA" 53+76.30	+30.60	102.29	COR
SE709	FL	"SA" 53+73.95	+42.00	102.36	PC
SE710	FL	"SA" 53+73.96	+48.53	102.32	B FACING
SE711	FL	"SA" 53+81.81	+72.02	102.17	±ME, E FACING
SE712	SWLK	"SA" 53+87.96	+71.94	102.69	±ME
SE713	EOP	"SA" 53+80.52	+82.40	102.17	±ME

NO.	DATE	REVISION	STATE	STATE PROJECT DESIGNATION		SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	D:F4	D:F16

CURVE TABLE										
ID	STATION	OFFSET	RADIUS	REMARKS						
C1	"SA" 53+17.68	+42.31'	28'	TBC						
C2	"SA" 53+17.64	-42.69'	28'	TBC						
С3	"SA" 54+02.62	-43.02'	28'	TBC						
C4	"SA" 54+02.70	+41.98'	28'	TBC						
C5	"SA" 53+90.94	+31.04	3'	SWLK						
C6	"SA" 53+29.24	+30.91'	2.75'	SWLK						
C7	"SA" 53+25.05	-34.63'	7'	SWLK						

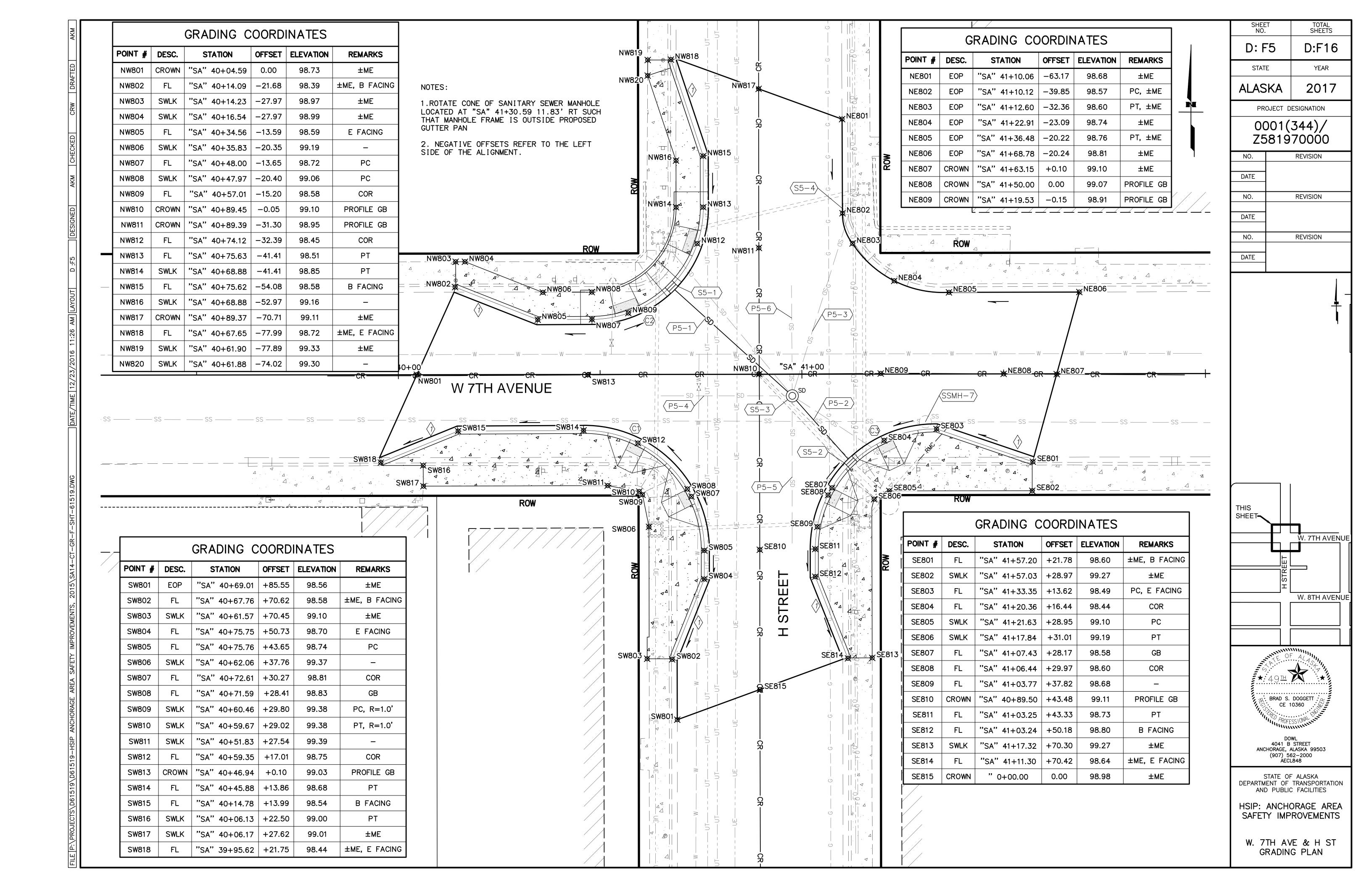
	STRUCTURE SUMMARY										
STRUCTURE ID	TYPE	STATION	STRUCTURE OFFSET	CASTING ELEVATION	CASTING TYPE	PIPES IN	PIPES OUT	REMARKS			
S3-1	MOA CB	"SA"53+37.64	+22.67'	102.60'	CURB INLET		P3-1 = 97.80'	_			
S3-2	MOA CB	"SA"52+86.93	+22.57'	102.59'	CURB INLET		P3-2 = 97.04	-			
S3-3	MOA CB	"SA"52+82.10	-22.37'	102.44'	CURB INLET		P3-3 = 96.89	_			
S3-4	MOA CB	"SA"53+37.42	-22.87'	102.28'	CURB INLET		P3-4 = 96.73'	-			
S3-5	MOA CB	"SA"53+83.01	-23.03'	102.39'	CURB INLET		P3-5 = 96.84	-			
S3-6	MOA CB	"SA"53+82.92	+22.16'	102.73'	CURB INLET		P3-6 = 97.18'	-			
S3-7	TYPE I	"SA"52+86.93	+7.71'	102.33'	MANHOLE	P3-3 = 96.59' P3-2 = 96.89'	P3-7 = 96.53'	-			
S3–8	TYPE II	"SA"53+67.35	+7.73'	102.41'	MANHOLE	P3-1 = 97.47' P3-4 = 96.30' P3-5 = 96.49' P3-6 = 96.97' P3-7 = 95.73' P3-8 = 93.46'	P3-9 = 93.40'	REPLACE EXISTING			
SSMH-6	SSMH	"SA"54+11.01	+13.62'	102.49'	MANHOLE			ADJUST EXISTING			

STORM DRAIN PIPE SUMMARY										
PIPE ID	SIZE (IN)	TYPE	LENGTH (FT)	GRADE (%)	GRADE (%) DIRECTION FROM DIRECTION TO		REMARKS			
P3-1	12"	CPEP	34	1.0%	S3-1	S3-8				
P3-2	12"	CPEP	15	1.0%	S3-2	S3-7				
P3-3	12"	CPEP	31	1.0%	S3-3	S3-7				
P3-4	12"	CPEP	43	1.0%	S3-4	S3-8				
P3-5	12"	CPEP	35	1.0%	S3-5	S3-8				
P3-6	12"	CPEP	22	1.0%	S3-6	S3-8				
P3-7	18"	CPEP	81	1.0%	S3-7	S3-8				
P3-8	20"	СМР				S3-8	EXISTING			
P3-9	20"	СМР			S3-8		EXISTING			



HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

W. 7TH AVE & D ST GRADING PLAN



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	D:F6	D:F16

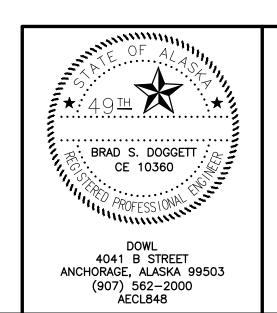
CURVE TABLE									
POINT	STATION	OFFSET	RADIUS	REMARKS					
C1	"SA" 40+46.01	+43.61'	29'	TBC					
C2	"SA" 40+47.88	-41.40'	27'	TBC					
С3	"SA" 41+33.00	+43.37'	29'	TBC					

STRUCTURE SUMMARY										
STRUCTURE ID	TYPE	STATION	STRUCTURE OFFSET	CASTING ELEVATION	CASTING TYPE	PIPES IN	PIPES OUT	REMARKS		
S5 - 1	MOA CB	"SA"40+67.01	-22.35'	98.74'	CURB INLET		P5-1 = 93.19'	_		
S5-2	MOA CB	"SA"41+12.79	+22.58'	98.89'	CURB INLET		P5-2 = 93.37'	_		
S5-3	TYPE II	"SA"40+97.61	+5.36'	98.92'	MANHOLE	P5-1 = 92.78' P5-2 = 93.14' P5-3 = 92.48' P5-4 = 90.16' P5-5 = 88.90'	P5-6 = 90.04'	REPLACE EXISTING		
S5 - 4	MOA CB	"SA"41+12.10	-40.90'		CURB INLET		P5-3 = 95.79	EXISTING		
SSMH-7	SSMH	"SA"41+30.59	+11.83'		MANHOLE			ADJUST EXISTING		

	STORM DRAIN PIPE SUMMARY										
PIPE ID	SIZE (IN)	TYPE	LENGTH (FT)	GRADE (%)	DIRECTION FROM	DIRECTION TO	REMARKS				
P5-1	12"	CPEP	42	1.0%	S5-1	S5-3					
P5-2	12"	CPEP	23	1.0%	S5-2	S5-3					
P5-3	12"	CPEP	49	6.8%	S5-4	S5-3	EXISTING				
P5-4	10"	CPEP		(S5-3	EXISTING				
P5-5	18"	CPEP	,			S5-3	EXISTING				
P5-6	15"	CPEP			S5-3		EXISTING				

NOTE:

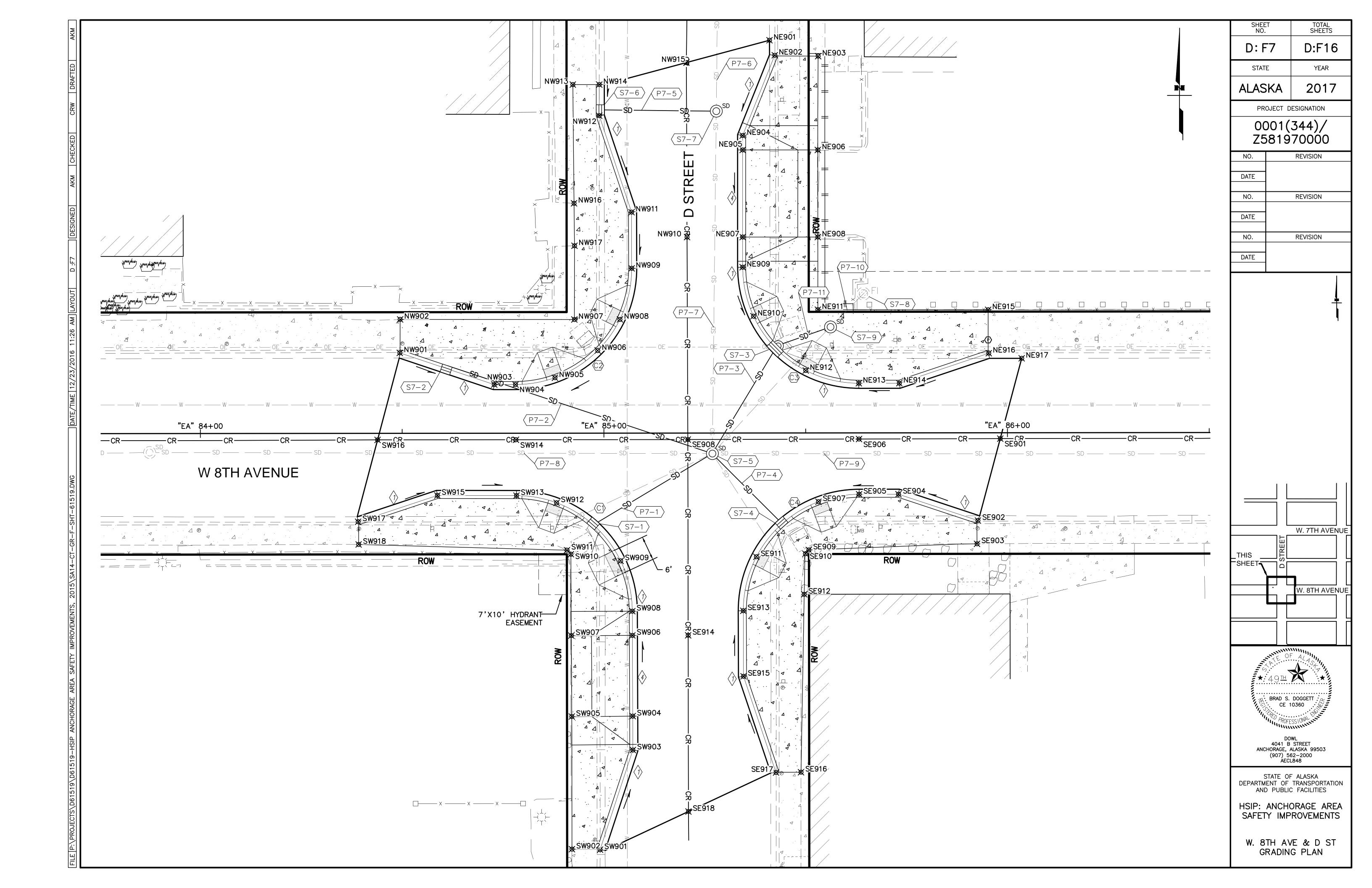
1. NEGATIVE OFFSETS REFER TO THE LEFT SIDE OF THE ALIGNMENT.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

W. 7TH AVE & H ST GRADING PLAN



GRADING COORDINATES							
POINT #	DESC.	STATION	OFFSET	ELEVATION	REMARKS		
NW901	FL	"EA" 84+49.43	-19.92	101.40	±ME, B FACING		
NW902	SWLK	"EA" 84+49.53	-28.22	101.96	±ME		
NW903	FL	"EA" 84+72.83	-12.06	101.37	E FACING		
NW904	FL	"EA" 84+78.10	-12.05	101.38	PC		
NW905	FL	"EA" 84+87.87	-13.73	101.41	COR		
NW906	FL	"EA" 84+98.48	-20.45	101.45	GB		
NW907	SWLK	"EA" 84+92.71	-28.16	102.05	±ME		
NW908	FL	"EA" 85+03.99	-28.17	101.48	COR		
NW909	FL	"EA" 85+06.92	-40.82	101.52	PT		
NW910	CROWN	"EA" 85+20.65	-48.55	101.85	PROFILE GB		
NW911	FL	"EA" 85+06.91	-54.73	101.56	B FACING		
NW912	FL	"EA" 84+98.91	-78.64	101.63	E FACING		
NW913	SWLK	"EA" 84+92.37	-86.36	102.27	±ME		
NW914	FL	"EA" 84+98.93	-86.35	101.65	±ME		
NW915	CROWN	"EA" 85+20.53	-91.78	102.10	±ME		
NW916	SWLK	"EA" 84+92.65	-56.94	102.13	±ME		
NW917	SWLK	"EA" 84+92.75	-46.43	102.10	±ME		

	GRADING COORDINATES							
POINT #	DESC.	STATION	OFFSET	ELEVATION	REMARKS			
NE901	EOP	"EA" 85+41.13	-97.29	101.75	±ME			
NE902	FL	"EA" 85+42.43	-93.58	101.71	±ME, B FACING			
NE903	SWLK	"EA" 85+53.19	-93.34	102.49	±ME			
NE904	FL	"EA" 85+34.46	-73.69	101.59	E FACING			
NE905	FL	"EA" 85+34.45	-70.12	101.57	BEGIN CURB CUT			
NE906	SWLK	"EA" 85+53.08	-70.10	102.36	±ME			
NE907	FL	"EA" 85+34.43	-48.54	101.47	END CURB CUT			
NE908	SWLK	"EA" 85+53.06	-48.53	102.20	±ME			
NE909	FL	"EA" 85+34.42	-41.07	101.44	PC			
NE910	FL	"EA" 85+37.09	-28.93	101.38	COR			
NE911	SWLK	"EA" 85+53.05	-30.53	101.98	_			
NE912	FL	"EA" 85+50.04	-15.47	101.40	COR			
NE913	FL	"EA" 85+63.18	-12.29	101.49	PT			
NE914	FL	"EA" 85+73.21	-12.29	101.55	B FACING			
NE915	SWLK	"EA" 85+95.25	-30.45	102.37	±ME			
NE916	FL	"EA" 85+95.39	-19.70	101.76	±ME, E FACING			
NE917	EOP	"EA" 86+03.55	-18.43	101.80	±ME			

GRADING COORDINATES								
POINT #	DESC.	STATION	OFFSET	ELEVATION	REMARKS			
SW901	FL	"EA" 84+98.95	+103.20	101.44	±ME, B FACING			
SW902	SWLK	"EA" 84+91.98	+103.07	102.13	±ME			
SW903	FL	"EA" 85+07.10	+78.52	101.31	E FACING			
SW904	FL	"EA" 85+07.07	+70.12	101.27	BEGIN CURB CUT			
SW905	SWLK	"EA" 84+91.97	+70.20	101.92	±ME			
SW906	FL	"EA" 85+07.01	+50.12	101.17	END CURB CUT			
SW907	SWLK	"EA" 84+91.88	+50.16	101.93	±ME			
SW908	FL	"EA" 85+07.00	+44.12	101.14	PC			
SW909	FL	"EA" 85+04.11	+31.66	101.07	COR			
SW910	SWLK	"EA" 84+91.79	+30.00	101.65	PC R=1'			
SW911	SWLK	"EA" 84+90.82	+29.00	101.64	PT R=1'			
SW912	FL	"EA" 84+88.25	+17.25	101.08	COR			
SW913	FL	"EA" 84+78.32	+15.45	101.15	PT			
SW914	CROWN	"EA" 84+78.20	+1.62	101.53	PROFILE GB			
SW915	FL	"EA" 84+58.71	+15.41	101.28	B FACING			
SW916	CROWN	"EA" 84+43.91	+1.63	101.90	±ME			
SW917	FL	"EA" 84+39.07	+21.90	101.52	±ME, E FACING			
SW918	SWLK	"EA" 84+39.19	+27.53	101.98	±ME			

GRADING COORDINATES								
POINT #	DESC.	STATION	OFFSET	ELEVATION	REMARKS			
SE901	CROWN	"EA" 85+98.22	+1.46	102.15	±ME			
SE902	FL	"EA" 85+92.66	+21.76	101.71	±ME, B FACING			
SE903	SWLK	"EA" 85+92.43	+27.52	102.27	±ME			
SE904	FL	"EA" 85+72.98	+15.21	101.43	E FACING			
SE905	FL	"EA" 85+63.23	+15.21	101.31	PC			
SE906	CROWN	"EA" 85+63.22	+1.53	101.61	PROFILE GB			
SE907	FL	"EA" 85+53.15	+17.04	101.16	COR			
SE908	CROWN	"EA" 85+20.79	+1.61	101.74	PROFILE GB			
SE909	SWLK	"EA" 85+50.75	+29.00	101.68	PC R=1'			
SE910	SWLK	"EA" 85+49.91	+29.94	101.63	PT R=1'			
SE911	FL	"EA" 85+37.75	+30.67	101.08	COR			
SE912	SWLK	"EA" 85+49.60	+39.98	101.74	±ME			
SE913	FL	"EA" 85+34.49	+44.04	101.15	PT			
SE914	CROWN	"EA" 85+20.82	+50.11	101.36	PROFILE GB			
SE915	FL	"EA" 85+34.54	+60.28	101.23	B FACING			
SE916	SWLK	"EA" 85+48.76	+84.06	101.86	±ME			
SE917	FL	"EA" 85+42.56	+84.12	101.36	±ME, E FACING			
SE918	CROWN	"EA" 85+20.85	+93.76	101.81	±ME			

CURVE TABLE								
POINT	STATION	OFFSET	RADIUS	REMARKS				
C1	"EA" 84+78.25	+44.20'	28'	TBC				
C2	"EA" 84+78.17	-40.80'	28'	TBC				
С3	"EA" 85+63.17	-41.04'	28'	TBC				
C4	"EA" 85+63.24	+43.96'	28'	TBC				

REVISION

NO. DATE

	STRUCTURE SUMMARY								
STRUCTURE ID	TYPE	STATION	STRUCTURE OFFSET	CASTING ELEVATION	CASTING TYPE	PIPES IN	PIPES OUT	REMARKS	
S7 - 1	MOA CB	"EA"84+96.68	+23.13'	101.51'	CURB INLET		P7-1 = 96.20'	_	
S7 - 2	MOA CB	"EA"84+61.23	-16.75'	101.83'	CURB INLET		P7-2 = 96.48'	_	
S7 - 3	TYPE II CBMH	"EA"85+42.98	-21.64'	101.84'	CURB INLET MANHOLE	P7-11 = 96.28'	P7-3 = 96.23'	_	
S7 - 4	MOA CB	"EA"85+44.68	+23.00'	101.52'	CURB INLET		P7-4 = 96.16'	_	
S7-5	TYPE II	"EA"85+26.87	+5.09'	101.63'	MANHOLE	P7-9 = 92.63' P7-1 = 95.85' P7-2 = 95.79' P7-3 = 95.92' P7-4 = 95.91' P7-7 = 91.85'	P7-8 = 91.74'	REPLACE EXISTING	
S7-6	MOA CB	"EA"84+98.17	-80.10'	102.13'	CURB INLET		P7-5 = 96.81'	_	
S7-7	TYPE I	"EA"85+27.93	-79.73 '	101.85'	MANHOLE	P7-5 = 96.51' P7-6 = 92.32'	P7-7 = 92.30'	_	
S7-8	FIELD INLET	"EA"85+64.33	-34.45'		FIELD INLET		P7-10 = 98.87'	EXISTING	
S7-9	TYPE I	"EA"85+56.17	-26.23'	101.96'	MANHOLE	P7-10 = 98.18'	P7-11 = 96.42'	_	

ALASKA

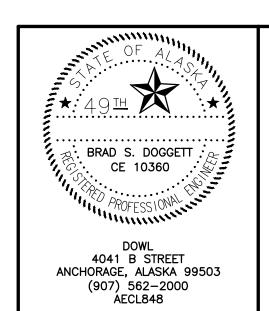
PROJECT DESIGNATION

0001(344)/Z581970000 | 2017 | D:F8 | D:F16

	STORM DRAIN PIPE SUMMARY								
PIPE ID	SIZE (IN)	TYPE	LENGTH (FT)	GRADE (%)	DIRECTION FROM	DIRECTION TO	REMARKS		
P7-1	12"	CPEP	36	1.0%	S7-1	S7 - 5			
P7-2	12"	CPEP	70	1.0%	S7-2	S7 - 5			
P7-3	12"	CPEP	32	1.0%	S7 - 3	S7-5			
P7-4	12"	CPEP	26	1.0%	S7-4	S7-5			
P7-5	12"	CPEP	30	1.0%	S7-6	S7-7			
P7-6	24"	CPEP				S7-7	EXISTING		
P7-7	24"	CPEP	85	0.5%	S7-7	S7-5	EXISTING		
P7-8	24"	СМР	1		S7-5		EXISTING		
P7-9	24"	СМР				S7-5	EXISTING		
P7-10	12"	CPEP	12	6.0%	S7-8	S7-9	EXISTING		
P7-11	12"	CPEP	14	1.0%	S7 - 9	S7-3			

NOTE:

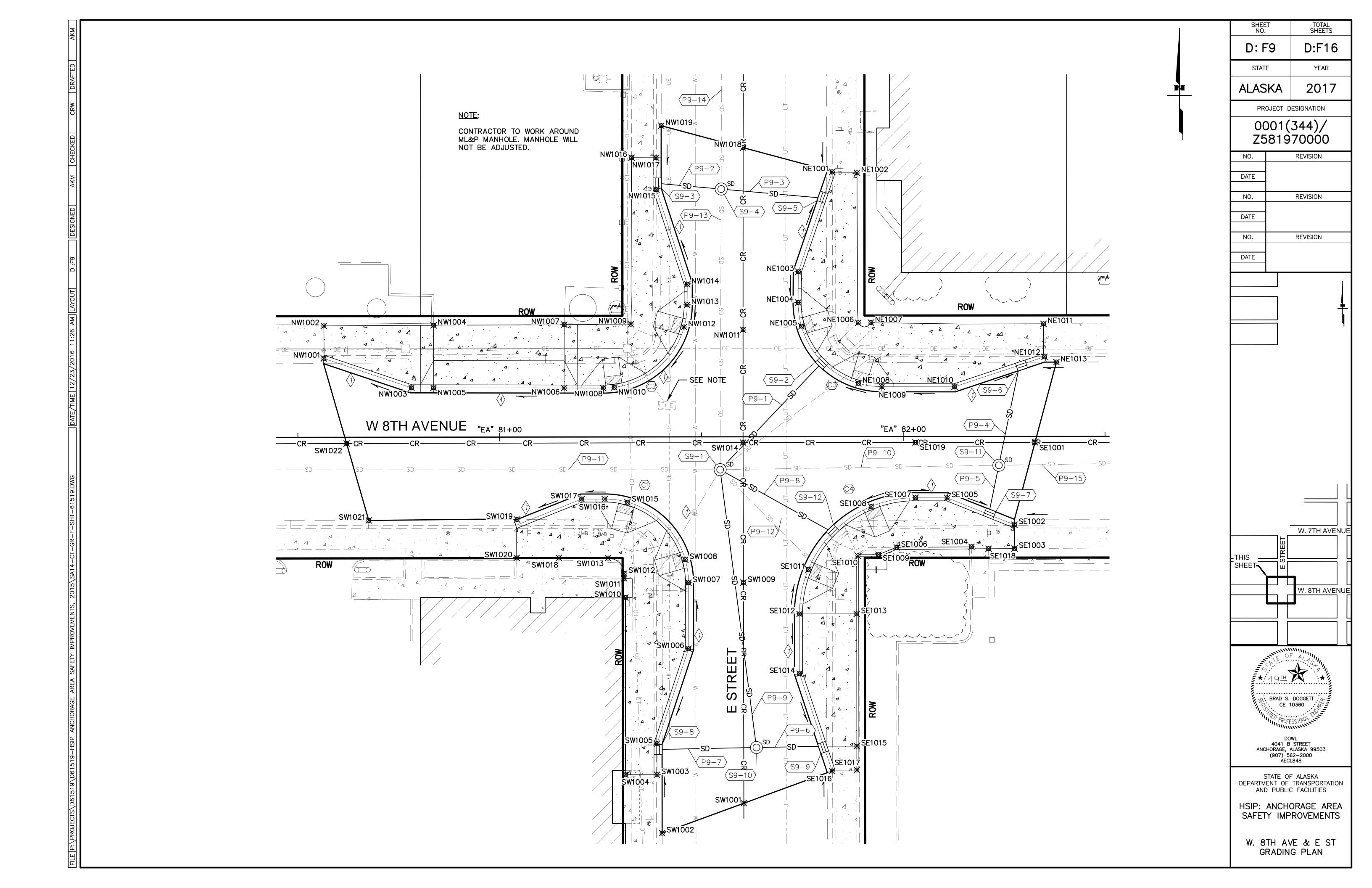
1. NEGATIVE OFFSETS REFER TO THE LEFT SIDE OF THE ALIGNMENT.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

W. 8TH AVE & D ST GRADING PLAN



DR
CRW
CHECKED
AKM
DESIGNED
D:F10
LAYOUT
11:26 AM
DATE/TIME 12/23/2016 1
CTS\D61519\D61519—HSIP ANCHORAGE AREA SAFETY IMPROVEMENTS, 2015\SA14—CT—GR—F—SHT—61519.DWG

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	D:F10	

	GRADING COORDINATES								
POINT #	DESC.	STATION	OFFSET	ELEVATION	REMARKS				
NW1001	FL	"EA" 80+56.44	-19.54	100.36	PT, ±ME, B FACING				
NW1002	SWLK	"EA" 80+56.46	-27.59	100.98	±ME				
NW1003	FL	"EA" 80+78.15	-12.24	100.48	E FACING				
NW1004	SWLK	"EA" 80+83.66	-27.70	101.09	DRIVEWAY ±ME				
NW1005	FL	"EA" 80+83.61	-12.22	100.51	BEGIN CURB CUT				
NW1006	FL	"EA" 81+15.98	-12.13	100.67	END CURB CUT				
NW1007	SWLK	"EA" 81+16.02	-27.84	101.19	DRIVEWAY ±ME				
NW1008	FL	"EA" 81+25.68	-12.10	100.71	PC				
NW1009	SWLK	"EA" 81+32.56	-27.90	101.42	_				
NW1010	FL	"EA" 81+28.40	-12.27	100.73	COR				
NW1011	CROWN	"EA" 81+60.34	-26.52	101.35	PROFILE GB				
NW1012	FL	"EA" 81+45.71	-27.21	100.86	COR				
NW1013	FL	"EA" 81+46.49	-32.70	100.89	РТ				
NW1014	FL	"EA" 81+46.53	-37.79	100.91	B FACING				
NW1015	FL	"EA" 81+38.89	-61.25	100.96	E FACING				
NW1016	SWLK	"EA" 81+32.76	-69.17	101.64	±ME				
NW1017	FL	"EA" 81+38.85	-69.14	100.97	±ME				
NW1018	CROWN	"EA" 81+60.40	-71.62	101.51	±ME				
NW1019	EOP	"EA" 81+40.12	-77.08	101.04	±ME				

GRADING COORDINATES							
POINT #	DESC.	STATION	OFFSET	ELEVATION	REMARKS		
SW1001	CROWN	"EA" 81+60.42	+90.78	101.28	±ME		
SW1002	EOP	"EA" 81+40.13	+98.17	100.83	±ME		
SW1003	FL	"EA" 81+38.86	+83.71	100.72	±ME		
SW1004	SWLK	"EA" 81+31.04	+83.70	101.33	±ME		
SW1005	FL	"EA" 81+38.89	+76.01	100.54	B FACING		
SW1006	FL	"EA" 81+46.73	+52.50	100.79	E FACING		
SW1007	FL	"EA" 81+46.73	+36.15	100.85	PC		
SW1008	SWLK	"EA" 81+45.92	+30.43	100.82	COR		
SW1010	SWLK	"EA" 81+31.10	+39.79	101.41	±ME		
SW1011	SWLK	"EA" 81+30.77	+35.05	101.38	±ME		
SW1012	SWLK	"EA" 81+30.79	+33.84	101.38	PC, R=4.00'		
SW1013	SWLK	"EA" 81+26.79	+30.02	101.36	PT, R=4.00'		
SW1014	CROWN	"EA" 81+60.29	+1.45	101.10	PROFILE GB		
SW1015	FL	"EA" 81+31.62	+16.18	100.72	COR		
SW1016	FL	"EA" 81+26.00	+15.40	100.69	PC		
SW1017	FL	"EA" 81+20.28	+15.39	100.67	B FACING		
SW1018	SWLK	"EA" 81+14.63	+29.96	101.33	±ME		
SW1019	EOP	"EA" 81+04.27	+20.43	100.65	±ME/E FACING		
SW1020	SWLK	"EA" 81+04.17	+29.94	101.33	±ME		
SW1021	EOP	"EA" 80+67.53	+20.61	100.44	±ME		
SW1022	CROWN	"EA" 80+62.07	+1.56	100.86	±ME		

		GRADING C	COORD	INATES	
POINT #	DESC.	STATION	OFFSET	ELEVATION	REMARKS
NE1001	FL	"EA" 81+82.46	-65.60	101.04	±ME, B FACING
NE1002	SWLK	"EA" 81+88.59	-65.36	101.64	_
NE1003	FL	"EA" 81+74.03	-40.86	101.21	E FACING
NE1004	FL	"EA" 81+73.98	-33.24	101.12	PC
NE1005	FL	"EA" 81+74.79	-27.38	101.05	COR
NE1006	SWLK	"EA" 81+88.86	-28.20	101.62	PC, R=1.60'
NE1007	SWLK	"EA" 81+92.01	-28.25	101.66	PT, R=1.60'
NE1008	FL	"EA" 81+88.89	-13.19	100.98	COR
NE1009	FL	"EA" 81+94.70	-12.35	101.02	PT
NE1010	FL	"EA" 82+12.71	-12.33	101.12	E FACING
NE1011	SWLK	"EA" 82+34.78	-27.90	101.66	±ME
NE1012	FL	"EA" 82+35.02	-19.74	101.02	±ME/B FACING
NE1013	EOP	"EA" 82+37.97	-18.43	101.08	±ME

		GRADING C	OORDI	NATES	
POINT #	DESC.	STATION	OFFSET	ELEVATION	REMARKS
SE1001	CROWN	"EA" 82+32.64	+1.45	101.53	±ME
SE1002	FL	"EA" 82+27.52	+21.86	100.99	±ME/B FACING
SE1003	SWLK	"EA" 82+27.54	+27.77	101.52	±ME
SE1004	SWLK	"EA" 82+16.89	+27.31	101.51	±ME
SE1005	FL	"EA" 82+10.84	+15.17	100.93	E FACING
SE1006	SWLK	"EA" 81+98.36	+27.45	101.37	PC, R=1.00'
SE1007	FL	"EA" 82+03.02	+15.16	100.86	PC
SE1008	FL	"EA" 81+92.01	+17.34	100.75	COR
SE1009	SWLK	"EA" 81+93.83	+29.25	101.35	_
SE1010	SWLK	"EA" 81+88.73	+29.52	101.28	MID, R=1.00'
SE1011	FL	"EA" 81+76.43	+32.91	100.71	COR
SE1012	FL	"EA" 81+74.24	+43.92	100.78	PT
SE1013	SWLK	"EA" 81+88.42	+43.91	101.41	GB
SE1014	FL	"EA" 81+74.25	+58.71	100.68	B FACING
SE1015	SWLK	"EA" 81+88.42	+76.67	101.16	GB
SE1016	FL	"EA" 81+82.30	+82.84	100.59	±ME/E FACING
SE1017	FL	"EA" 81+88.42	+82.60	101.17	PT
SE1018	SWLK	"EA" 82+21.11	+27.80	101.54	±ME
SE1019	CROWN	"EA" 82+03.02	+1.45	101.30	PROFILE GB
SW1009	CROWN	"EA" 81+60.33	+36.14	101.16	PROFILE GB

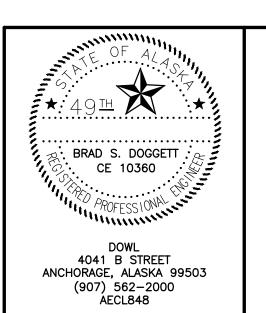
	CURVE TABLE							
POINT	STATION	OFFSET	RADIUS	REMARKS				
C1	"EA" 81+25.98	+36.15'	20'	TBC				
C2	"EA" 81+25.74	-32.85'	20'	TBC				
С3	"EA" 81+94.73	-33.10'	20'	TBC				
C4	"EA" 82+02.99	+43.91'	28'	TBC				

			S	TRUCTU	RE SUMM	ARY		
STRUCTURE ID	TYPE	STATION	STRUCTURE OFFSET	CASTING ELEVATION	CASTING TYPE	PIPES IN	PIPES OUT	REMARKS
S9-1	TYPE II	"EA"81+54.61	+8.15'	101.02'	MANHOLE	P9-1 = 95.79' P9-8 = 95.57' P9-9 = 95.90' P9-10 = 91.20' P9-12 = 94.15' P9-13 = 92.37'	P9-11 = 90.84'	REPLACE EXISTING
S9-2	MOA CB	"EA"81+80.53	-19.02'	101.42'	CURB INLET		P9-1 = 96.17'	-
S9-3	MOA CB	"EA"81+38.08	-62.89'	101.45'	CURB INLET		P9-2 = 96.20'	-
S9-4	TYPE I	"EA"81+54.96	-61.37'	101.35'	MANHOLE	P9-2 = 96.03' P9-3 = 95.98' P9-14 = 92.64'	P9-13 = 92.63'	-
S9-5	MOA CB	"EA"81+81.01	-59.01'	101.49'	CURB INLET		P9-3 = 96.24'	-
S9-6	MOA CB	"EA"82+29.00	-18.53'	101.48'	CURB INLET		P9-4 = 96.23'	-
S9-7	MOA CB	"EA"82+20.99	+20.05'	101.47	CURB INLET		P9-5 = 96.22'	-
S9-8	MOA CB	"EA"81+38.13	+77.45'	101.20'	CURB INLET		P9-7 = 96.43'	-
S9-9	MOA CB	"EA"81+81.03	+76.67'	101.05'	CURB INLET		P9-6 = 96.39'	-
S9-10	TYPE I	"EA"81+63.55	+76.99'	101.14'	MANHOLE	P9-6 = 96.30' P9-7 = 96.30'	P9-9 = 96.25'	-
S9-11	TYPE I	"EA"82+23.66	+7.13'	101.32'	MANHOLE	P9-4 = 95.97' P9-5 = 96.09' P9-15 = 91.21'	P9-10 = 91.21'	-
S9-12	MOA CB	"EA"81+83.20	+24.10'	101.15'	CURB INLET		P9-8 = 95.90'	-

	Ç	STOR	M DR	AIN PIPI	E SUMM	IARY	
PIPE ID	SIZE (IN)	TYPE	LENGTH (FT)	GRADE (%)	DIRECTION TO FROM		REMARKS
P9-1	12"	CPEP	38	1.0%	S9-2	S9-1	
P9-2	12"	CPEP	17	1.0%	S9-3	S9 - 4	
P9-3	12"	CPEP	27	1.0%	S9-5	S9 - 4	
P9-4	12"	CPEP	27	1.0%	S9 - 6	S9-11	
P9-5	12"	CPEP	14	1.0%	S9-7	S9-11	
P9-6	12"	CPEP	18	0.5%	S9 - 9	S9 – 10	
P9-7	12"	CPEP	26	0.5%	S9 – 8	S9 – 10	
P9-8	12"	CPEP	33	1.0%	S9-12	S9 - 1	
P9-9	18"	CPEP	70	0.5%	S9-10	S9-1	
P9-10	24"	CPEP	70	0.0%	S9-11	S9 - 1	EXISTING
P9-11	24"	CPEP				S9-1	EXISTING
P9-12	12"	CPEP	35	0.5%		S9 - 1	EXISTING
P9-13	18"	CPEP			S9-4	S9-1	EXISTING
P9-14	18"	CPEP	105	0.5%		S9-4	EXISTING
P9-15	24"	CPEP			S9-11		EXISTING

NOTE:

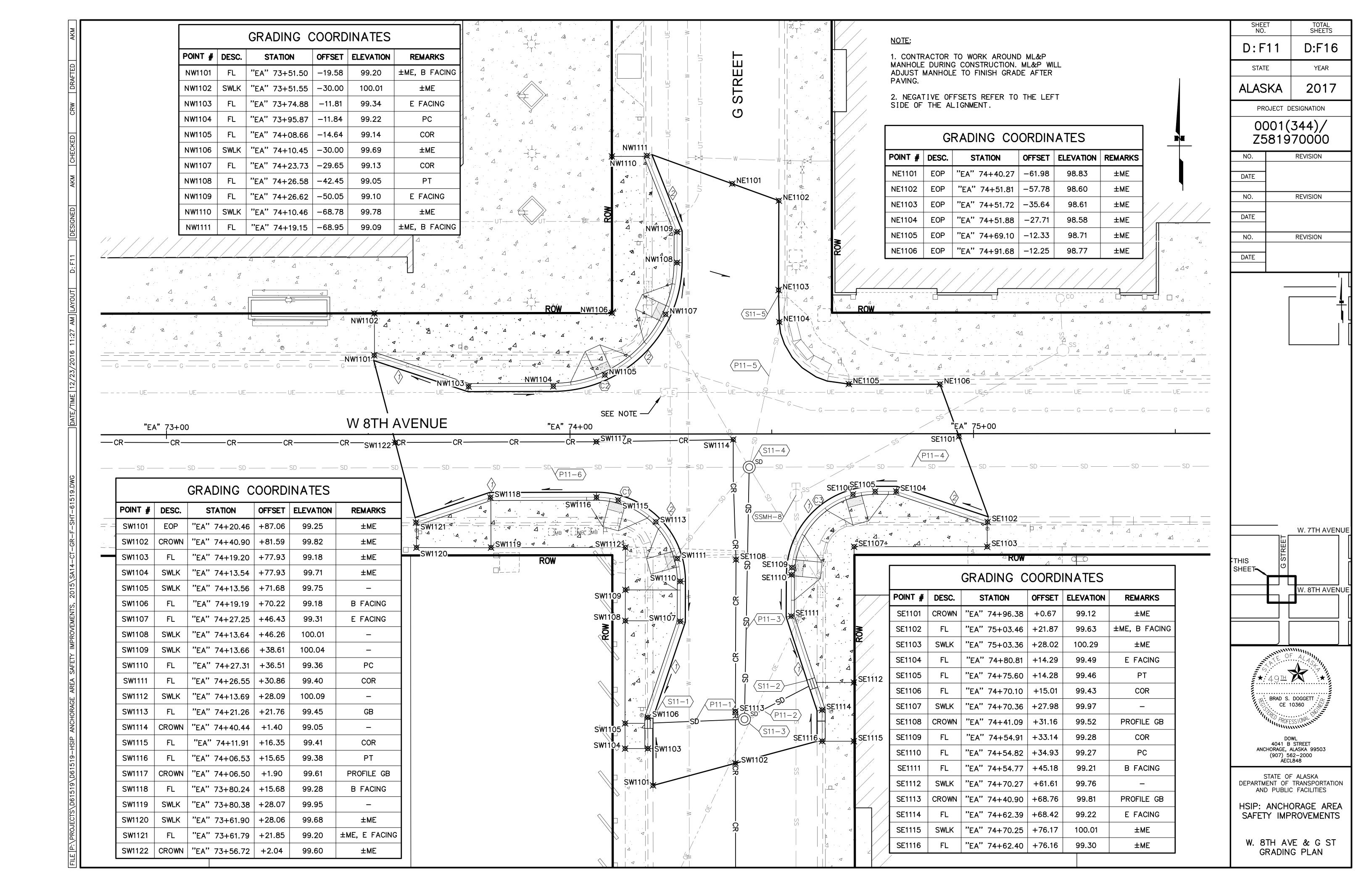
1. NEGATIVE OFFSETS REFER TO THE LEFT SIDE OF THE ALIGNMENT.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

W. 8TH AVE & E ST GRADING PLAN



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	D: F12	D: F16

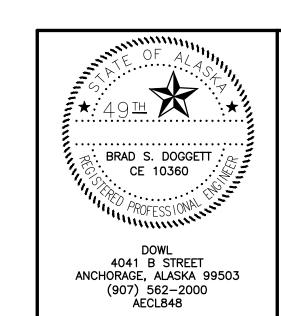
CURVE TABLE									
POINT	NT STATION OFFSET RADIUS REMARKS								
C1	"EA" 74+06.56	+36.40'	20'	TBC					
C2	"EA" 73+95.83	-42.59'	30'	TBC					
C3	"EA" 74+75.57	+35.03'	20'	TBC					

	STRUCTURE SUMMARY										
STRUCTURE ID	TYPE	STATION	STRUCTURE OFFSET	CASTING ELEVATION	CASTING TYPE	PIPES IN	PIPES OUT	REMARKS			
S11-1	MOA CB	"EA"74+18.44	+71.68'	99.67	CURB INLET		P11-1 = 94.10'	_			
S11-2	MOA CB	"EA"74+60.94	+61.60'	99.62'	CURB INLET		P11-2 = 94.10'	-			
S11-3	TYPE I	"EA"74+43.15	+70.70'	99.75'	MANHOLE	P11-1 = 93.85' P11-2 = 93.90'	P11-3 = 93.80'	-			
S11-4	TYPE II	"EA"74+44.39	+8.24'	99.17'	MANHOLE	P11-3 = 91.10' P11-4 = 88.11' P11-5 = 93.68'	P11-6 = 87.94'	REPLACE EXISTING			
S11-5	MOA CB	"EA"74+53.84	-35.04'		CURB INLET		P11-5 = 94.75'	EXISTING			
SSMH-8	SSMH	"EA"74+55.99	+15.20'		MANHOLE			ADJUST EXISTING			

	STORM DRAIN PIPE SUMMARY										
PIPE ID	SIZE (IN)	TYPE	LENGTH (FT)	GRADE (%)	DIRECTION FROM	DIRECTION TO	REMARKS				
P11-1	12"	CPEP	25	1.0%	S11-1	S11-3					
P11-2	12"	CPEP	20	1.0%	S11-2	S11-3					
P11-3	18"	CPEP	63	4.3%	S11-3	S11-4					
P11-4	24"	СМР				S11-4	EXISTING				
P11-5	12"	CPEP	45	2.4%	S11-5	S11-4	EXISTING				
P11-6	30"	СМР			S11-4	S13-5	EXISTING				

NOTE:

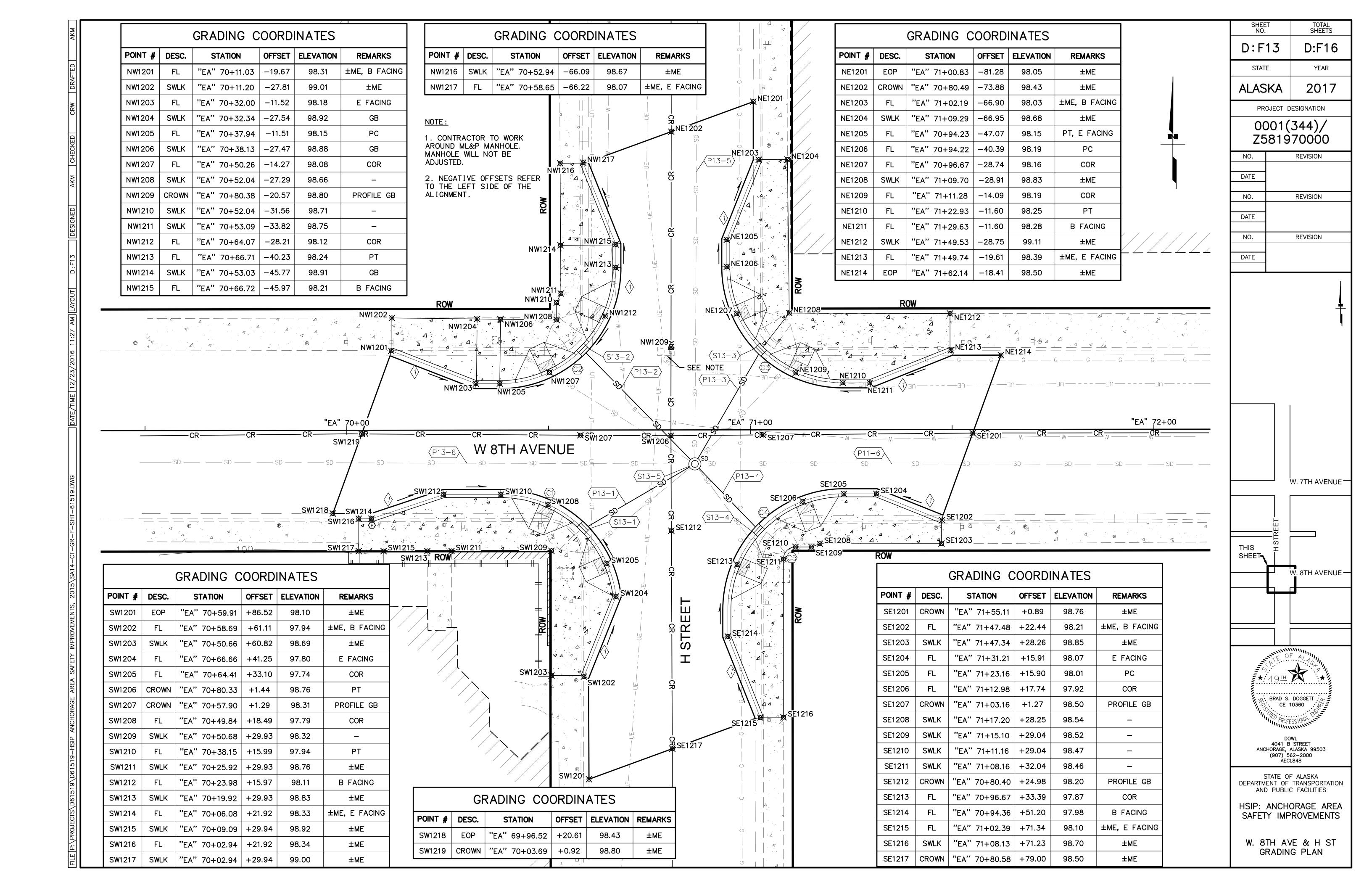
1. NEGATIVE OFFSETS REFER TO THE LEFT SIDE OF THE ALIGNMENT.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

W. 8TH AVE & G ST GRADING PLAN



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	D:F14	D: F1

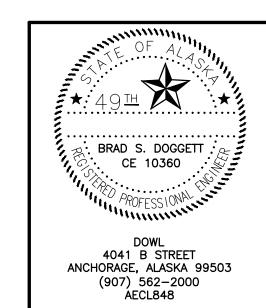
CURVE TABLE									
POINT	STATION	OFFSET	RADIUS	REMARKS					
C1	"EA" 70+38.13	+44.74'	28'	TBC					
C2	"EA" 70+37.96	-40.26'	28'	TBC					
C3	"EA" 71+22.97	-40.35'	28'	TBC					
C4	"EA" 71+23.12	+44.65'	28'	TBC					
C5	"EA" 71+11.16	+32.04	3'	SWLK					

	STRUCTURE SUMMARY										
STRUCTURE ID	TYPE	STATION	STRUCTURE OFFSET	CASTING ELEVATION	CASTING TYPE	PIPES IN	PIPES OUT	REMARKS			
S13-1	MOA CB	"EA"70+57.93	+24.94'	98.17'	CURB INLET		P13-1 = 93.92'	_			
S13-2	MOA CB	"EA"70+57.86	-20.58'	98.52'	CURB INLET		P13-2 = 94.27'	-			
S13-3	MOA CB	"EA"71+03.17	-20.55'	98.63'	CURB INLET		P13-3 = 94.38'	-			
S13-4	MOA CB	"EA"71+02.65	+25.54'	98.32'	CURB INLET		P13-4 = 94.07'	-			
S13-5	TYPE II	"EA"70+86.24	+8.44'	98.50'	MANHOLE	P13-1 = 91.29' P13-2 = 91.29' P13-3 = 91.29' P13-4 = 91.29' P11-6 = 87.79' P13-5 = 87.42'	P13-6 = 87.23'	REPLACE EXISTING			

	•	STOR	M DR	AIN PIPI	E SUMM	IARY	
PIPE ID	SIZE (IN)	TYPE	LENGTH (FT)	GRADE (%)	DIRECTION TO	REMARKS	
P11-6	30"	СМР			S11-4	S13-5	EXISTING
P13-1	12"	CPEP	33	8.0%	S13-1	S13-5	
P13-2	12"	CPEP	41	7.3%	S13-2	S13-5	
P13-3	12"	CPEP	34	9.2%	S13-3	S13-5	
P13-4	12"	CPEP	24	11.7%	S13-4	S13-5	
P13-5	18"	CPEP				S13-5	EXISTING
P13-6	30"	СМР			S13-5		EXISTING

NOTE:

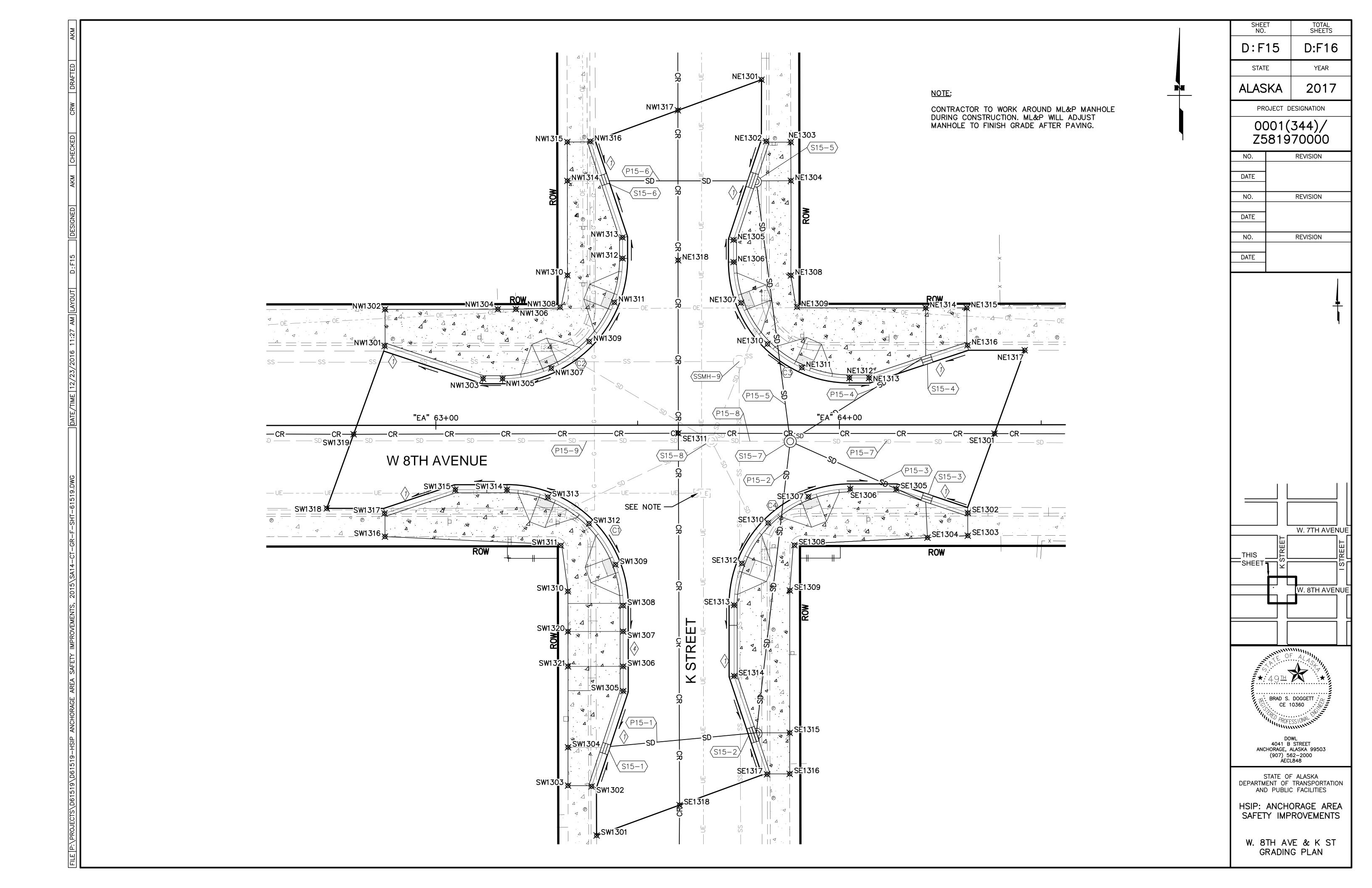
1. NEGATIVE OFFSETS REFER TO THE LEFT SIDE OF THE ALIGNMENT.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

W. 8TH AVE & H ST GRADING PLAN



		GRADING (COORD	INATES	
POINT #	DESC.	STATION	OFFSET	ELEVATION	REMARKS
NW1301	FL	"EA" 62+87.33	-19.64	95.39	±ME, B FACING
NW1302	SWLK	"EA" 62+87.45	-28.73	96.05	±ME
NW1303	FL	"EA" 63+11.71	-11.52	95.57	E FACING
NW1304	SWLK	"EA" 63+15.39	-28.73	96.18	±ME
NW1305	FL	"EA" 63+16.56	-11.52	95.60	PC
NW1306	SWLK	"EA" 63+19.84	-28.73	96.18	±ME
NW1307	FL	"EA" 63+28.61	-14.07	95.68	COR
NW1308	SWLK	"EA" 63+30.81	-29.23	96.34	MIDPOINT, R=1.0
NW1309	FL	"EA" 63+38.03	-20.68	95.77	GB
NW1310	SWLK	"EA" 63+32.65	-37.11	96.31	_
NW1311	FL	"EA" 63+44.25	-30.41	95.72	COR
NW1312	FL	"EA" 63+46.30	-41.29	95.68	PT
NW1313	FL	"EA" 63+46.30	-46.48	95.66	B FACING
NW1314	SWLK	"EA" 63+32.64	-60.52	96.23	_
NW1315	SWLK	"EA" 63+32.64	-70.15	96.27	±ME
NW1316	FL	"EA" 63+38.34	-70.30	95.67	±ME, E FACING

NW1317 CROWN "EA" 63+60.05 -77.97 96.17

		GRADING C	COORD	INATES	
POINT #	DESC.	STATION	OFFSET	ELEVATION	REMARKS
NE1301	EOP	"EA" 63+80.77	-85.54	95.79	±ME
NE1302	FL	"EA" 63+81.92	-70.28	95.69	±ME, B FACING
NE1303	SWLK	"EA" 63+88.02	-70.07	96.42	±ME
NE1304	SWLK	"EA" 63+88.02	-60.49	96.27	_
NE1305	FL	"EA" 63+73.79	-45.84	95.75	E FACING
NE1306	FL	"EA" 63+73.80	-40.36	95.79	PC
NE1307	FL	"EA" 63+75.64	-30.25	95.87	COR
NE1308	SWLK	"EA" 63+88.01	-37.04	96.52	_
NE1309	SWLK	"EA" 63+89.52	-29.24	96.60	MIDPOINT, R=1.0'
NE1310	FL	"EA" 63+82.21	-20.06	95.95	GB
NE1311	FL	"EA" 63+90.70	-14.19	95.90	COR
NE1312	FL	"EA" 64+02.49	-11.63	95.83	PT
NE1313	FL	"EA" 64+07.36	-11.62	95.81	B FACING
NE1314	SWLK	"EA" 64+21.41	-28.94	96.42	_
NE1315	SWLK	"EA" 64+31.60	-28.94	96.60	±ME
NE1316	FL	"EA" 64+31.75	-19.70	95.92	±ME, E FACING
NE1317	EOP	"EA" 64+45.94	-18.46	96.08	±ME
NE1318	CROWN	"EA" 63+60.07	-40.82	96.18	PROFILE GB

		GRADING (COORD	INATES	
POINT #	DESC.	STATION	OFFSET	ELEVATION	REMARKS
SW1301	EOP	"EA" 63+39.73	+101.66	95.80	±ME
SW1302	FL	"EA" 63+38.50	+89.51	95.70	±ME, B FACING
SW1303	SWLK	"EA" 63+32.66	+89.31	96.29	±ME
SW1304	SWLK	"EA" 63+32.67	+79.81	96.22	_
SW1305	FL	"EA" 63+46.37	+65.90	95.68	E FACING
SW1306	FL	"EA" 63+46.36	+59.78	95.72	BEGIN CURB CUT
SW1307	FL	"EA" 63+46.36	+51.13	95.77	END CURB CUT
SW1308	FL	"EA" 63+46.36	+44.73	95.81	PC
SW1309	FL	"EA" 63+44.51	+34.57	95.87	COR
SW1310	SWLK	"EA" 63+32.68	+41.17	96.54	_
SW1311	SWLK	"EA" 63+30.95	+29.82	96.60	MIDPOINT, R=1.0'
SW1312	FL	"EA" 63+37.94	+24.40	95.94	GB
SW1313	FL	"EA" 63+27.73	+17.82	95.80	COR
SW1314	FL	"EA" 63+17.61	+15.98	95.68	PT
SW1315	FL	"EA" 63+04.81	+15.98	95.53	B FACING
SW1316	SWLK	"EA" 62+87.36	+27.57	95.95	±ME
SW1317	FL	"EA" 62+87.26	+21.83	95.32	±ME, E FACING
SW1318	EOP	"EA" 62+72.94	+20.56	95.32	±ME
SW1319	CROWN	"EA" 62+79.62	+2.20	95.82	±ME
SW1320	SWLK	"EA" 63+32.69	+51.13	96.15	±ME, GB
SW1321	SWLK	"EA" 63+32.69	+59.78	96.17	±ME, GB

		GRADING (COORD	INATES	
POINT #	DESC.	STATION	OFFSET	ELEVATION	REMARKS
SE1301	CROWN	"EA" 64+38.42	+2.19	96.42	±ME
SE1302	FL	"EA" 64+31.79	+21.83	95.92	±ME, B FACING
SE1303	SWLK	"EA" 64+31.80	+27.47	96.62	±ME
SE1304	SWLK	"EA" 64+21.79	+27.95	96.42	_
SE1305	FL	"EA" 64+14.08	+15.89	95.83	E FACING
SE1306	FL	"EA" 64+02.68	+15.87	95.89	PC
SE1307	FL	"EA" 63+92.31	+17.78	95.95	COR
SE1308	SWLK	"EA" 63+88.81	+29.79	96.58	MIDPOINT, R=1.0'
SE1309	SWLK	"EA" 63+87.67	+41.02	96.50	_
SE1310	FL	"EA" 63+82.31	+24.27	96.02	GB
SE1311	CROWN	"EA" 63+60.09	+2.04	96.27	PT
SE1312	FL	"EA" 63+75.78	+34.31	95.93	COR
SE1313	FL	"EA" 63+73.87	+44.63	95.86	PT
SE1314	FL	"EA" 63+73.87	+62.20	95.73	B FACING
SE1315	SWLK	"EA" 63+87.62	+76.27	96.25	_
SE1316	SWLK	"EA" 63+87.61	+86.45	96.36	±ME
SE1317	FL	"EA" 63+81.99	+86.54	95.75	±ME, E FACING
SE1318	CROWN	"EA" 63+60.32	+94.16	96.25	±ME

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	D: F16	D: F16

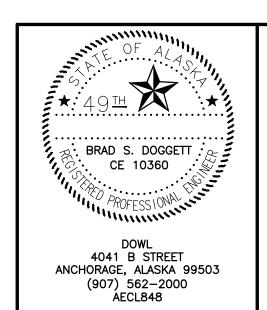
	CURV	E TABLE		
ID	STATION	OFFSET	RADIUS	REMARKS
C1	"EA" 63+17.61	+44.73'	28'	TBC
C2	"EA" 63+16.55	-41.27'	29'	TBC
C3	"EA" 64+02.55	-40.38'	28'	TBC
C4	"EA" 64+02.62	+44.62'	28'	TBC

			STF	RUCTURE	E SUMMAF	?Y		
STRUCTURE ID	TYPE	STATION	STRUCTURE OFFSET	CASTING ELEVATION	CASTING TYPE	PIPES IN	PIPES OUT	REMARKS
S15-1	MOA CB	"EA"63+40.94	+79.82'	96.10'	CURB INLET		P15-1 = 91.60'	_
S15-2	TYPE II CBMH	"EA"63+79.35	+76.26'	96.13'	CURB INLET MANHOLE	P15-1 = 91.21'	P15-2 = 90.91'	_
S15-3	MOA CB	"EA"64+21.37	+19.13'	96.29'	CURB INLET		P15-3 = 91.20'	
S15-4	MOA CB	"EA"64+21.40	-17.06'	96.23'	CURB INLET		P15-4 = 90.73'	_
S15-5	TYPE II CBMH	"EA"63+79.45	-60.47'	96.14'	CURB INLET MANHOLE	P15-6 = 90.22'	P15-5 = 90.17'	_
S15-6	MOA CB	"EA"63+40.82	-60.52'	96.11'	CURB INLET		P15-6 = 90.61'	_
S15-7	TYPE II	"EA"63+87.80	+4.07'	96.28'	MANHOLE	P15-2 = 90.18' P15-3 = 90.83' P15-4 = 90.33' P15-5 = 89.52' P15-7 = 85.29'	P15-8 = 85.27'	-
S15-8	TYPE II	"EA"63+68.28	+3.95'	96.26'	MANHOLE	P15-8 = 85.22'	P15-9 = 85.07'	RECONSTRUCT EXISTING
SSMH-9	SSMH	"EA"63+75.18	-15.72'	96.07'	MANHOLE			ADJUST EXISTING

	•	STOR	M DR	AIN PIPI	E SUMM	IARY	
PIPE ID	SIZE (IN)	TYPE	LENGTH (FT)	GRADE (%)	DIRECTION FROM	DIRECTION TO	REMARKS
P15-1	12"	CPEP	39	1.0%	S15-1	S15-2	
P15-2	18"	CPEP	73	1.0%	S15-2	S15-7	
P15-3	12"	CPEP	37	1.0%	S15-3	S15-7	
P15-4	12"	CPEP	40	1.0%	S15-4	S15-7	
P15-5	18"	CPEP	66	1.0%	S15-5	S15-7	
P15-6	12"	CPEP	39	1.0%	S15-6	S15-5	
P15-7	36"	СМР				S15-7	EXISTING
P15-8	36"	CMP	20	0.3%	S15-7	S15-8	EXISTING
P15-9	36"	CMP			S15-8		EXISTING

NOTE:

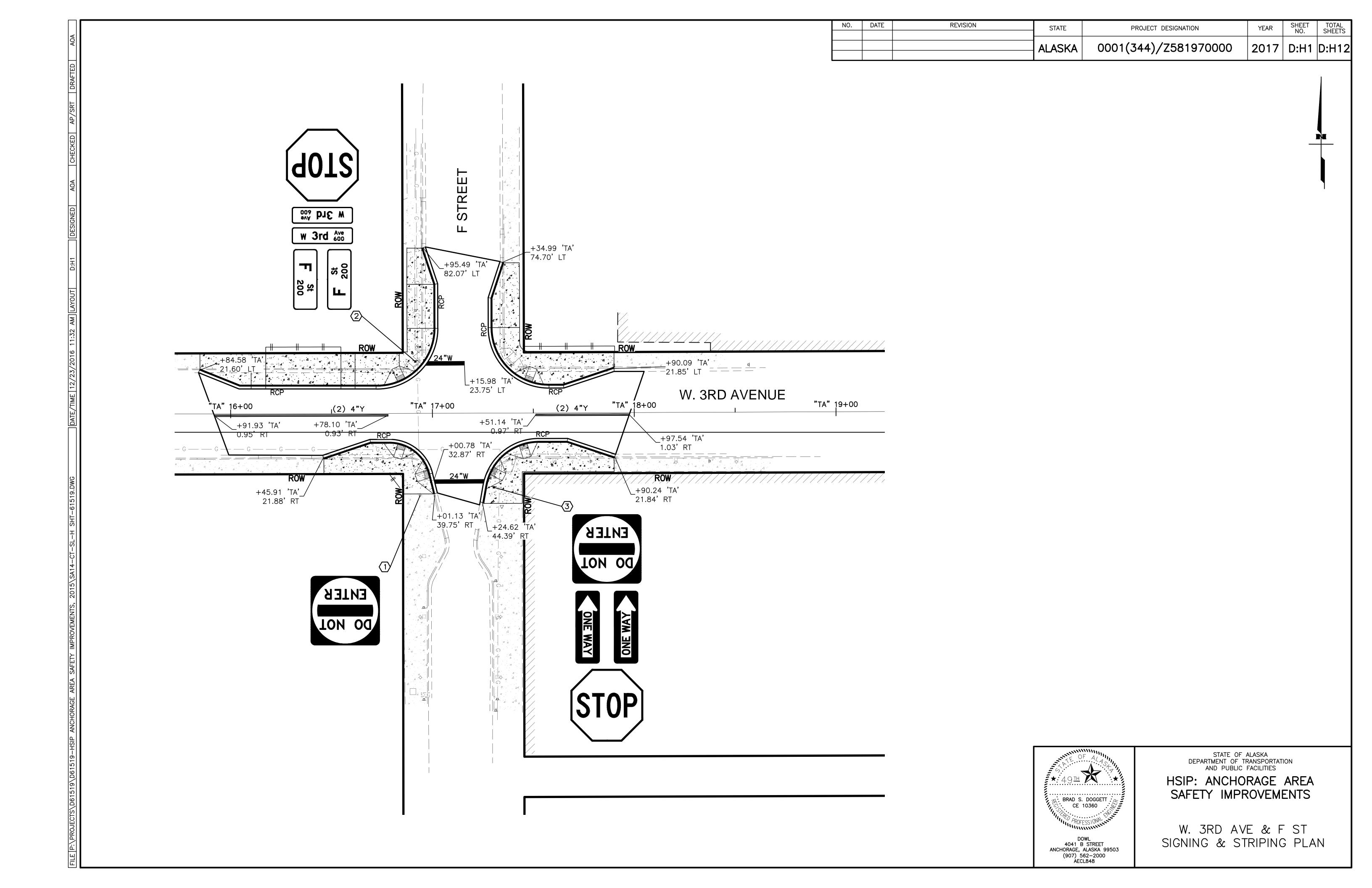
1. NEGATIVE OFFSETS REFER TO THE LEFT SIDE OF THE ALIGNMENT.

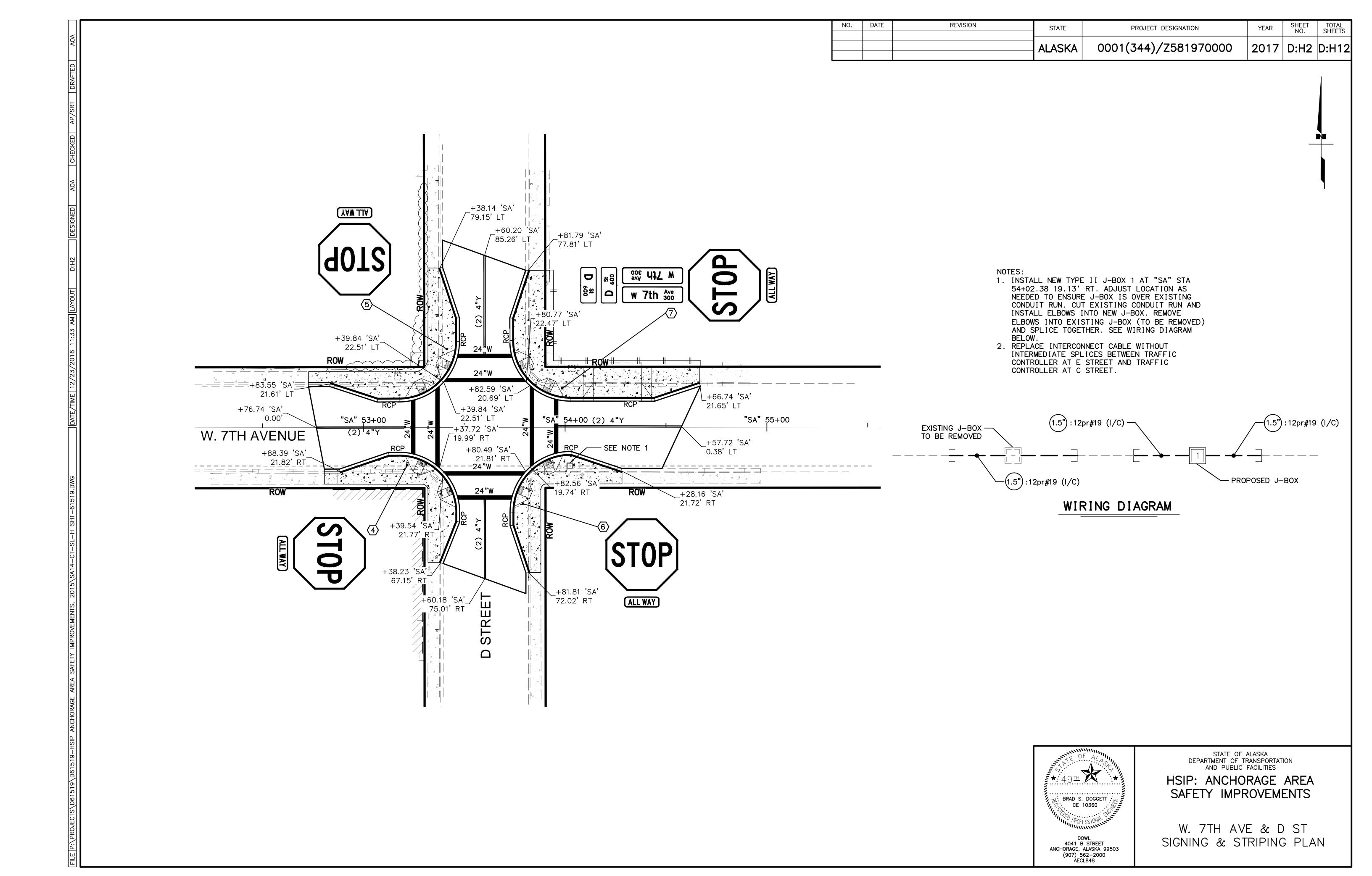


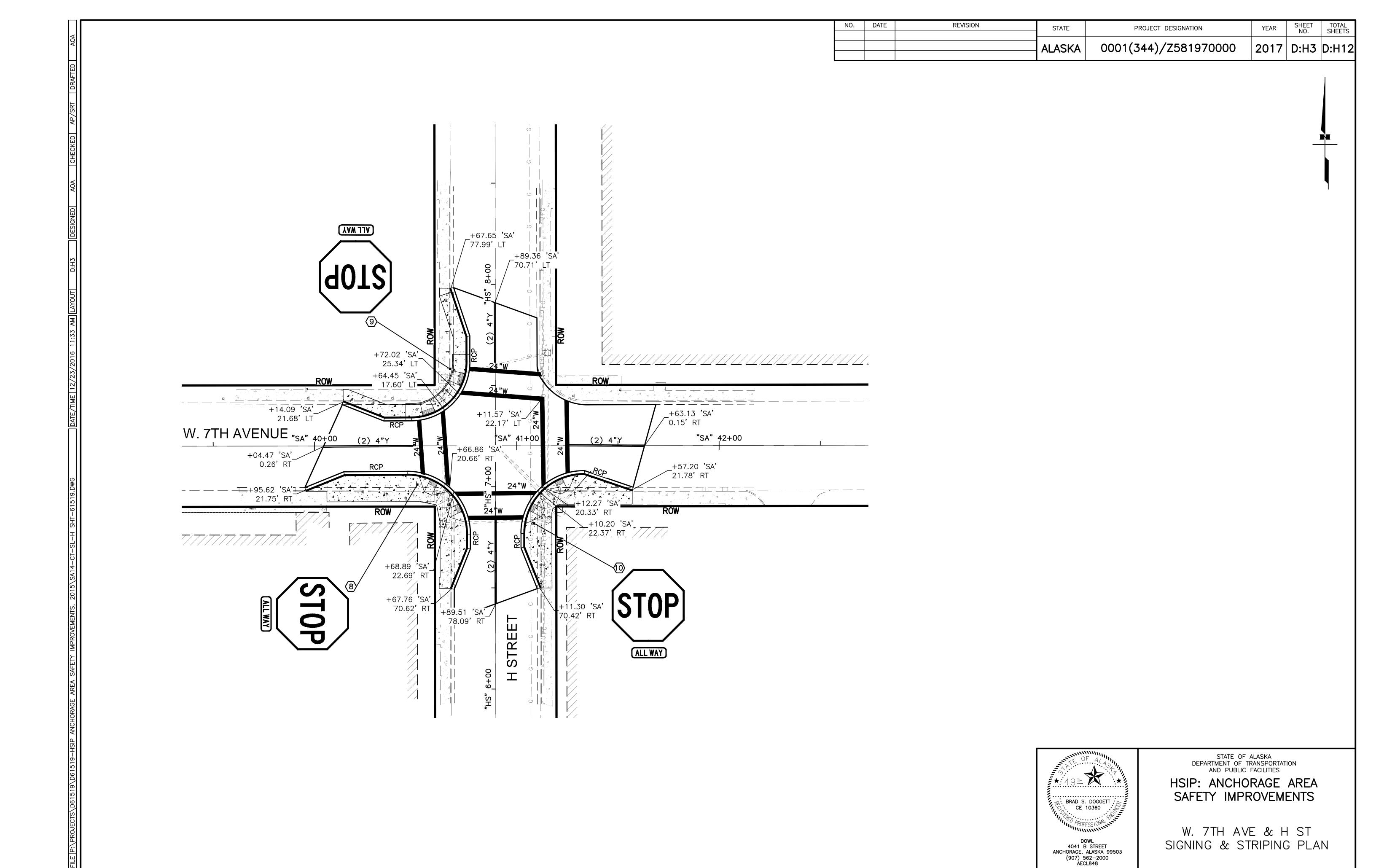
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

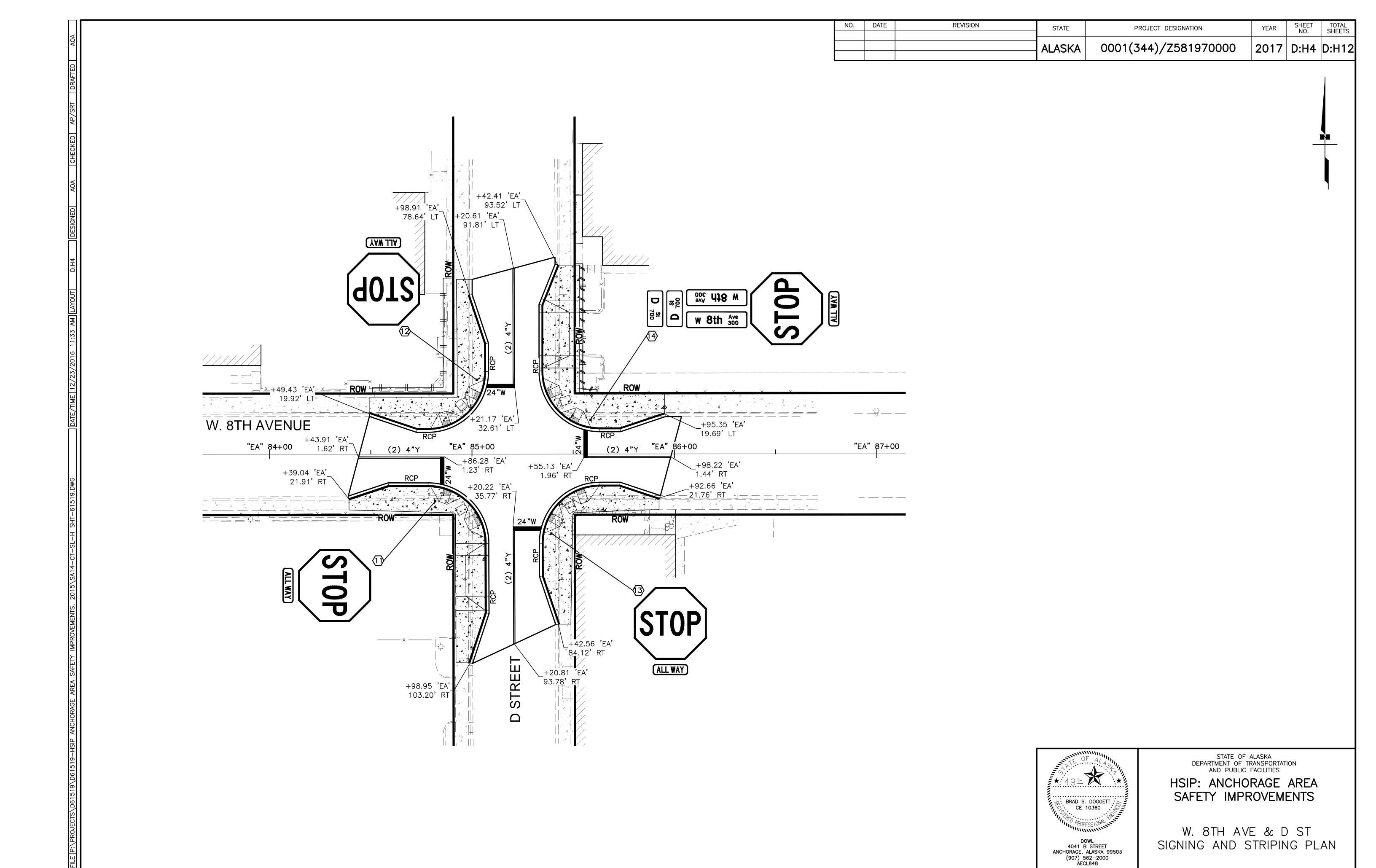
HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

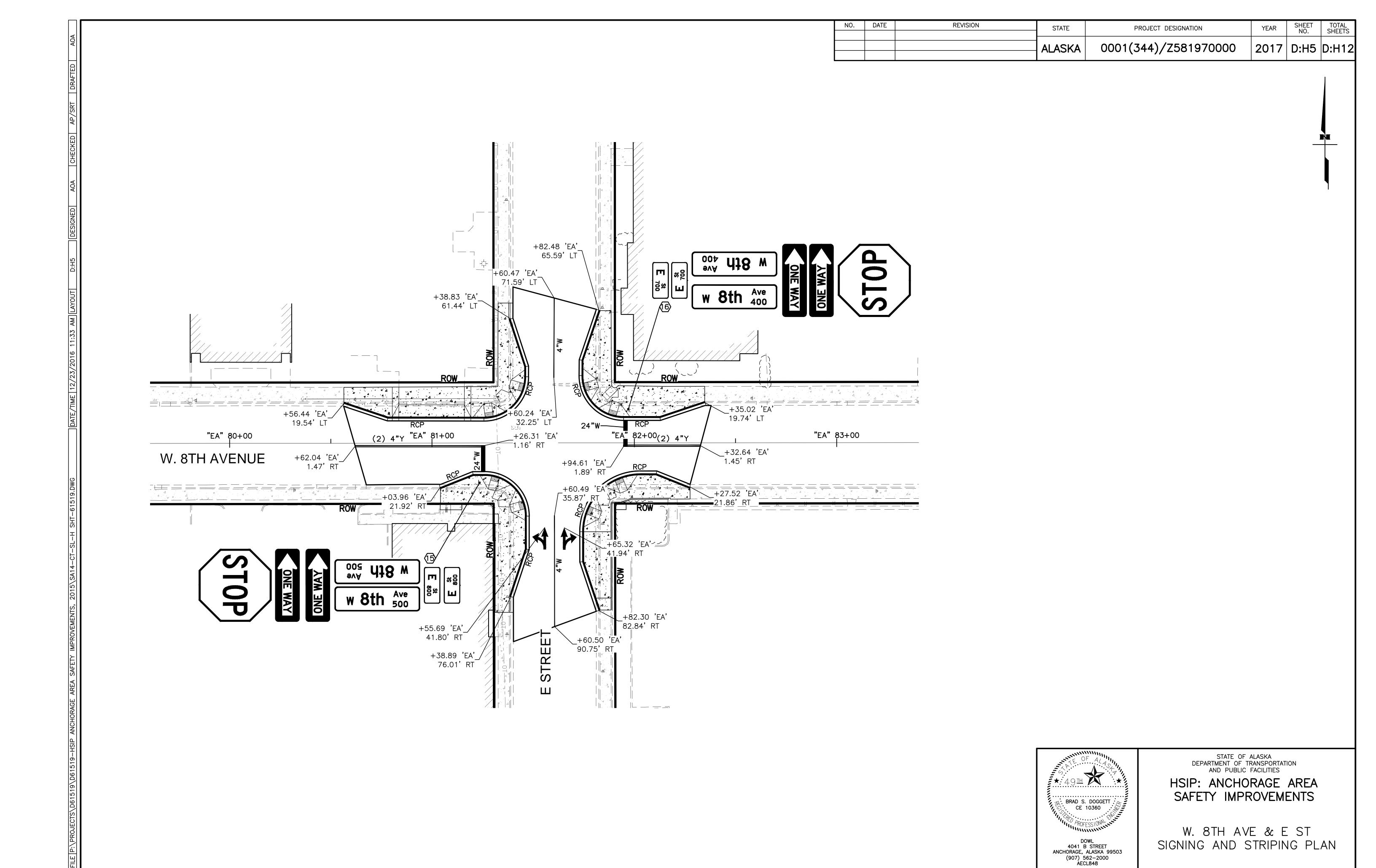
W. 8TH AVE & K ST GRADING PLAN

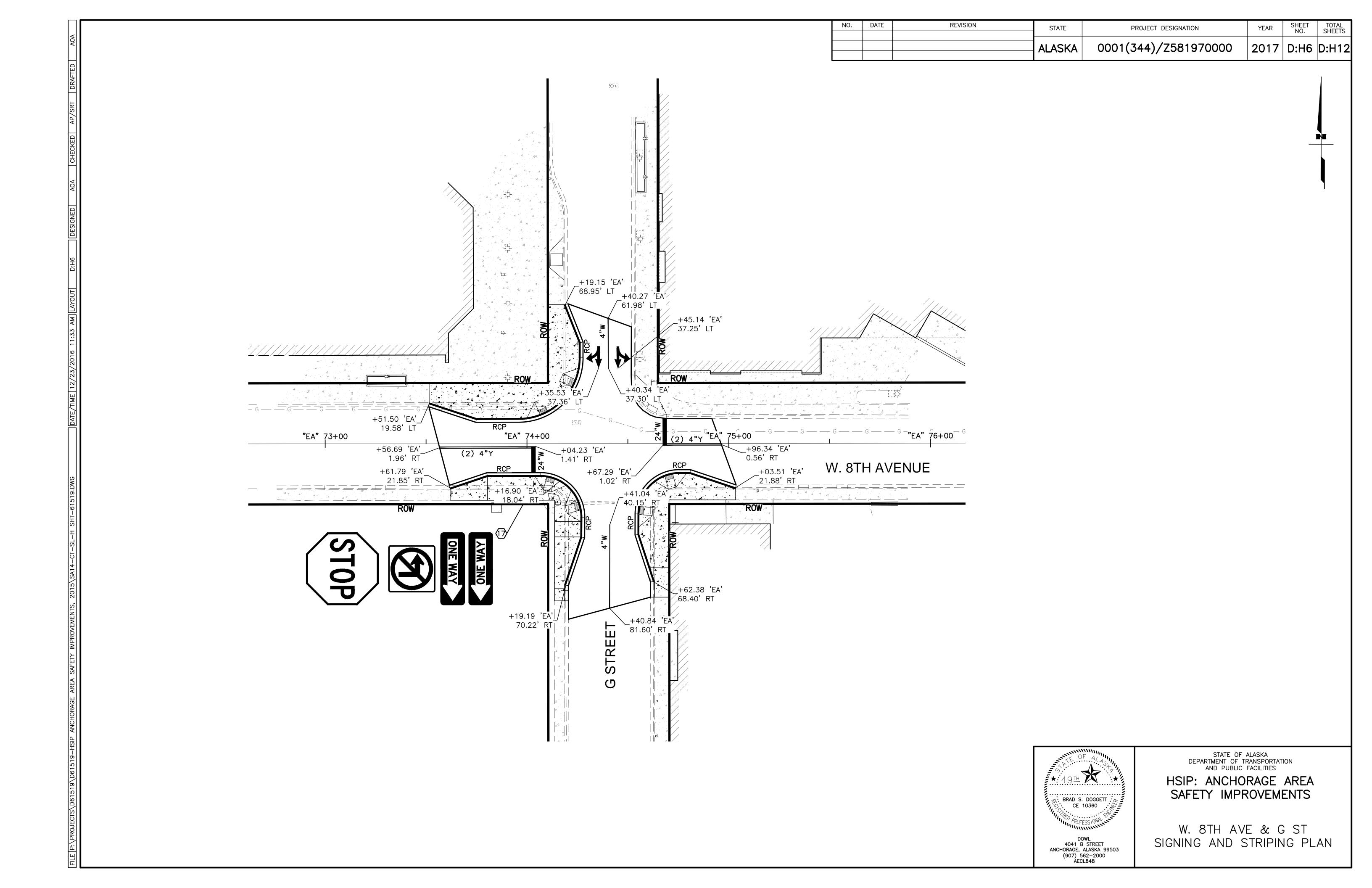


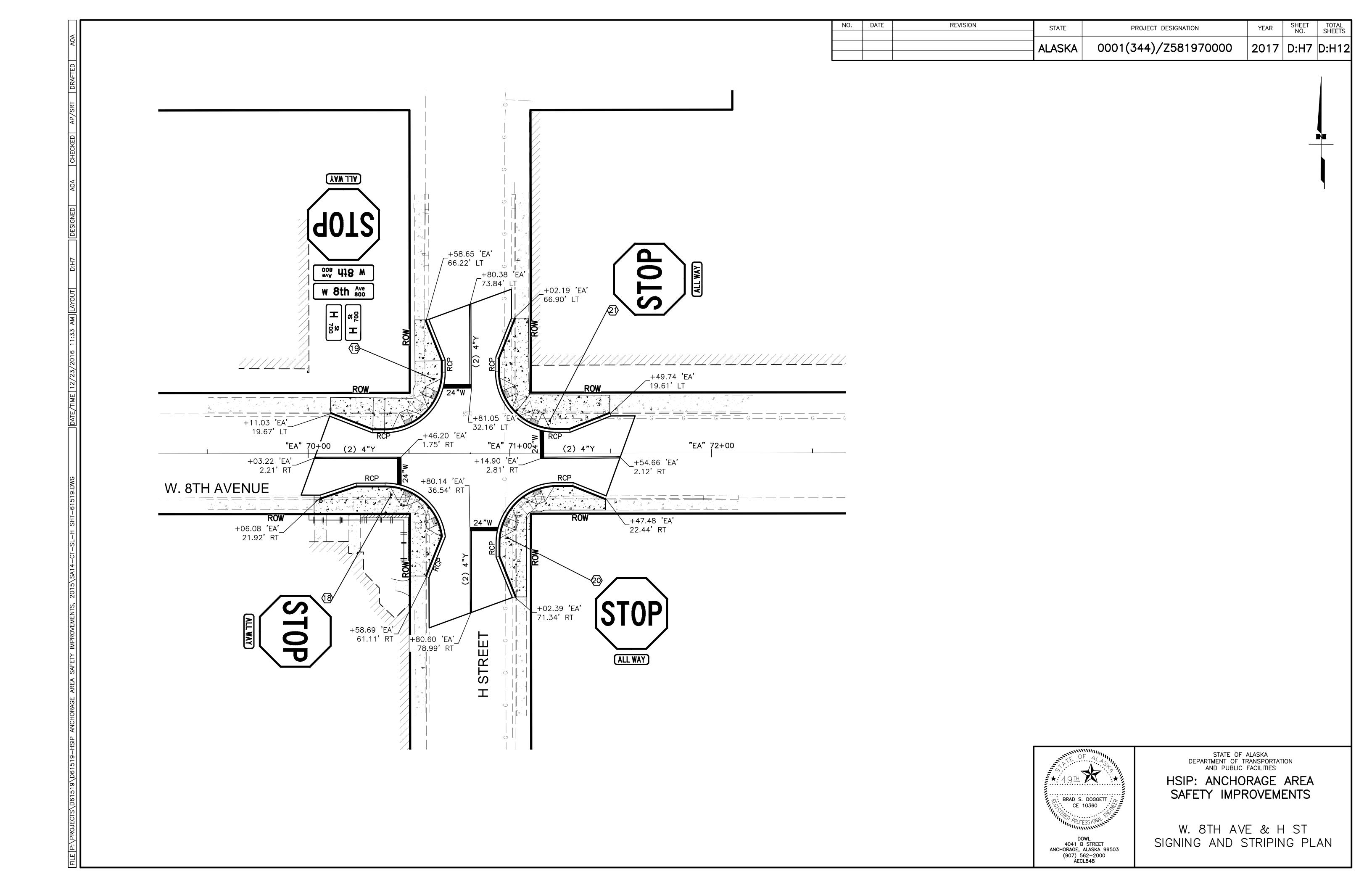


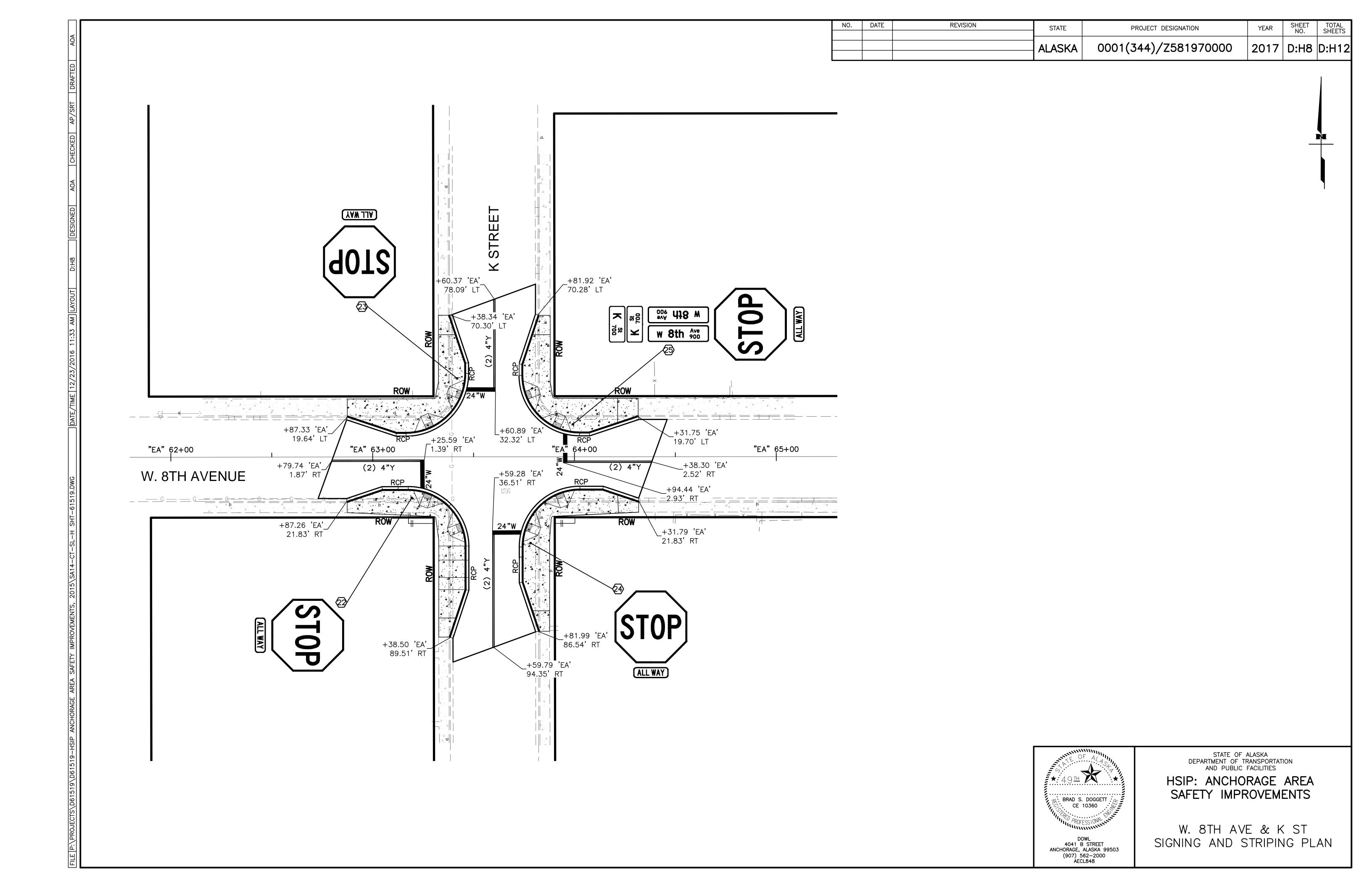






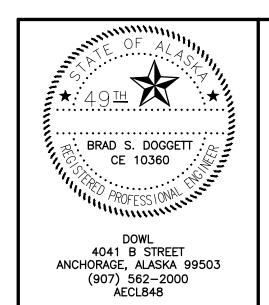






							6175	(TAI)			POSTS		KNESS	
SHEET	POST NO.	STATION	CL OFFSET	CL REF	TYPE	LEGEND	SIZE	(IN)	AREA (FT2)	SIGN FACES	NO., SIZE,	FRA	MED	REMARKS
							WIDTH	HEIGHT			& TYPE	YES	NO	
D:H1	1	"TA" 16+93.81	40.61'	RT.	R5-1	DO NOT ENTER	30	30	6.25	N	N/A		×	MOUNT ON EXISTING LIGHT POLE
					D3-101	F st 200	30	12	5.0	E/W			×	2 SIGNS BACK TO BACK
	2	"TA" 16+91.59	25.68	LT.	D3-101	w 3rd Ave	30	8	3.33	N/S	1-3.0" T		x	2 SIGNS BACK TO BACK
D:H1	2	17 10191.09	25.00		R1-1	STOP	30	30	6.25	N	1 3.0 1	x		
					R5-1	DO NOT ENTER	30	30	6.25	N			x	
	_				R6-1R	ONE WAY	36	12	3.0	E		X		BACK TO BACK WITH R6-1L
D:H1	3	"TA" 17+30.27	36.76'	RT.	R6-1L	ONE WAY	36	12	3.0	W	1-3.0" T	X		BACK TO BACK WITH R6-1R
					R1-1	STOP	30	30	6.25	S		x		
D:H2	4	"SA" 53+21.71	18.65'	RT	R1-1	STOP	30	30	6.25	W	1-2.5" X 2.5" PT	X		
					R1-3P	ALL WAY	18	6	0.75	w			×	
D:H2	5	"SA" 53+41.35	38.92'	LT	R1-1	STOP	30	30	6.25	N	1-2.5" X 2.5" PT	x		
					R1-3P	ALL WAY	18	6	0.75	N			×	
D:H2 D:H2	6	"SA" 53+79.07	37.81'	RT.	R1-1	STOP	30	30	6.25	S	1-2.5" X 2.5" PT	x		
					R1-3P	ALL WAY	18	6	0.75	S			×	
					D3-101	D st 600	18	8	2.00	E/W			×	2 SIGNS BACK TO BACK
					D3-101	w 7th Ave 300	30	8	3.33	N/S			×	2 SIGNS BACK TO BACK
D:H2	7	"SA" 53+98.59	19.36'	LT.	R1-1	STOP	30	30	6.25	E	1-3.0" T	x		
					R1-3P	ALL WAY	18	6	0.75	E			X	
D:H3	8	"SA" 40+50.88	19.08'	RT.	R1-1	STOP	30	30	6.25	w	1-2.5" X 2.5" PT	x		
					R1-3P	(ALL WAY)	18	6	0.75	W			X	

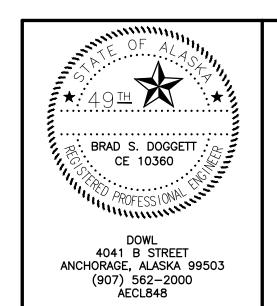
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	D:H9	D:H12



HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

							SIZE	(IN)			POSTS		KNESS in)	
SHEE	T POST NO.	STATION	CL OFFSET	CL REF	TYPE	LEGEND			AREA (FT2)	SIGN FACES	NO., SIZE, & TYPE	FRA	MED	REMARKS
SHEE							WIDTH	HEIGHT			& TYPE	YES	NO	
D:H3	3 9	"SA" 40+67.09	38.00'	LT.	R1-1	STOP	30	30	6.25	N	1-2.5" X 2.5" PT	X		
					R1-3P	ALL WAY	18	6	0.75	N			X	
D:H3	3 10	"SA" 41+08.50	38.39'	RT.	R1-1	STOP	30	30	6.25	S	1-2.5" X 2.5" PT	X		
					R1-3P	ALL WAY	18	6	0.75	S			×	
	11	"EA" 84+81.83	23.28'	RT.	R1-1	STOP	30	30	6.25	w	1-2.5" X 2.5" PT	X		
					R1-3P	ALL WAY	18	6	0.75	W			X	
D:H4	12	"EA" 85+02.33	36.77'	LT.	R1-1	STOP	30	30	6.25	N	1-2.5" X 2.5" PT	X		
					R1-3P	ALL WAY	18	6	0.75	N			Х	
D:H4	13	"EA" 85+39.20	39.22'	RT.	R1-1	STOP	30	30	6.25	S	1-2.5" X 2.5" PT	X		
					R1-3P	ALL WAY	18	6	0.75	S			X	
					D3-101	D St 700	18	8	2.0	E/W			X	2 SIGNS BACK TO BACK
					D3-101	w 8th Ave 300	30	8	3.33	N/S			X	2 SIGNS BACK TO BACK
D:H4	14	"EA" 85+58.56	17.00'	LT.	R1-1	STOP	30	30	6.25	E	1-3.0" T	X		
					R1-3P	ALL WAY	18	6	0.75	E			Х	
					D3-101	E st 800	18	8	2.0	E/W			×	2 SIGNS BACK TO BACK
					D3-101	w 8th Ave 500	42	12	7.0	N/S		Х		2 SIGNS BACK TO BACK
	15	"FA" 01:07 40	10 65'	рт	R6-1R	ONE WAY	36	12	3.0	E	1_7 0" T	X		BACK TO BACK WITH R6-1R
D:H5	5 15	"EA" 81+23.46	19.65'	RT.	R6-1L	ONE WAY	36	12	3.0	W	1-3.0" T	Х		BACK TO BACK WITH R6-1R
D:H5					R1-1	STOP	36	36	9.00	w		X		

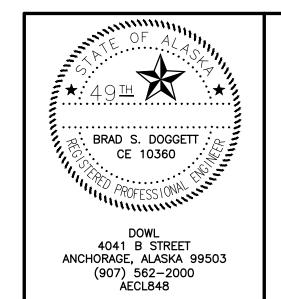
\neg	NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
				ALASKA	0001(344)/Z581970000	2017	D:H10	D:H1



HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

							SIZE	(IN)			POSTS		KNESS in)	
SHEET	POST NO.	STATION	CL OFFSET	CL REF	TYPE	LEGEND		(3.1.)	AREA (FT2)	SIGN FACES	NO., SIZE, & TYPE	FRA	MED	REMARKS
							WIDTH	HEIGHT			& TYPE	YES	NO	
					D3-101	E \$t 700	18	8	2.0	E/W			×	2 SIGNS BACK TO BA
					D3-101	w 8th Ave 400	42	12	7.0	N/S		X		2 SIGNS BACK TO BA
					R6-1L	ONE WAY	36	12	3.0	w		X		BACK TO BACK WIT R6-1R
D:H5	16	"EA" 81+97.04	16.60'	LT.	R6-1R	ONE WAY	36	12	3.0	E	1-3.0" T	X		BACK TO BACK WIT R6-1L
					R1-1	STOP	36	36	9.00	E		X		
					R6-1L	ONE WAY	36	12	3.0	E		х		
					R6-1R	ONE WAY	36	12	3.0	w		X		
D:H6	17	"EA" 74+03.77	19.90'	RT	R3-1		30	30	6.25	E	1-3.0" T		х	
					R1-1	STOP	36	36	9.00	W		X		
D:H7	18	"EA" 70+41.25	20.44	RT.	R1-1	STOP	30	30	6.25	W	1-2.5" X 2.5" PT	X		
					R1-3P	ALL WAY	18	6	0.75	w			X	
					D3-101	H St 700	18	8	2.0	E/W			X	2 SIGNS BACK TO B
					D3-101	w 8th Ave	30	8	3.33	N/S			×	2 SIGNS BACK TO B
D:H7	19	"EA" 70+62.22	36.77'	LT.	R1-1	STOP	30	30	6.25	N	1-3.0" T	X		
					R1-3P	ALL WAY	18	6	0.75	N			×	
D:H7	20	"EA" 70+98.78	41.90'	RT.	R1-1	STOP	30	30	6.25	S	1-2.5" X 2.5" PT	X		
					R1-3P	(ALL WAY)	18	6	0.75	S			X	
D:H7	21	"EA" 71+19.82	16.06'	LT.	R1-1	STOP	30	30	6.25	E	1-2.5" X 2.5" PT	X		
					R1-3P	(ALL WAY)	18	6	0.75	E			X	

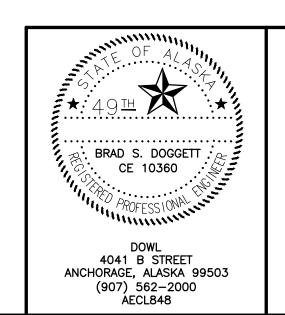
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	D:H11	D:H12



HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

AOA								SIZE	(IN)			POSTS		(NESS n)	
FTED	SHEET	POST NO.	STATION	CL OFFSET	CL REF	TYPE	LEGEND			AREA (FT2)	SIGN FACES	NO., SIZE, & TYPE	FRA	MED	REMARKS
DRA								WIDTH	HEIGHT			& TYPE	YES	NO	
AP/SRT															
CHECKED	D:H8	22	"EA" 63+19.32	20.29	RT.	R1-1	STOP	30	30	6.25	W	1-2.5" X 2.5" PT	X		
AOA						R1-3P	(ALL WAY)	18	6	0.75	W			X	
DESIGNED	D:H8	23	"EA" 63+41.94	38.87	LT.	R1-1	STOP	30	30	6.25	N	1-2.5" X 2.5" PT	x		
H12					R1-3P	(ALL WAY)	18	6	0.75	N			X		
DATE/TIME 12/23/2016 11:33 AM LAYOUT D:H12 DESIGNED AOA CHECKED AP/SRT DRAFTED	D:H8	24	"EA" 63+78.20	42.73'	RT.	R1-1	STOP	30	30	6.25	S	1-2.5" X 2.5" PT	x		
1:33 AN						R1-3P	(ALL WAY)	18	6	0.75	S			X	
/2016 1						D3-101	K st 700	18	8	2.0	E/W			X	2 SIGNS BACK TO BACK
12/23						D3-101	w 8th Ave	30	8	3.33	N/S			×	2 SIGNS BACK TO BACK
DATE/TIME	D:H8	25	"EA" 63+99.25	16.10'	LT.	R1-1	STOP	30	30	6.25	E	1-3.0" T	X		
						R1-3P	ALL WAY	18	6	0.75	E			×	

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(344)/Z581970000	2017	D:H12	D:H12



HSIP: ANCHORAGE AREA SAFETY IMPROVEMENTS

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

PROJECT LOCATION

M&O STATION: ANCHORAGE

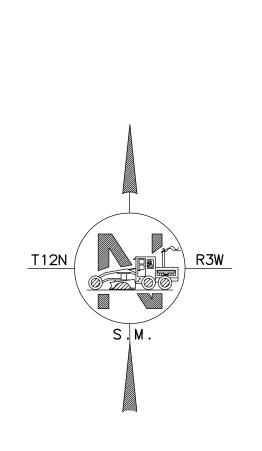
CENTRAL REGION

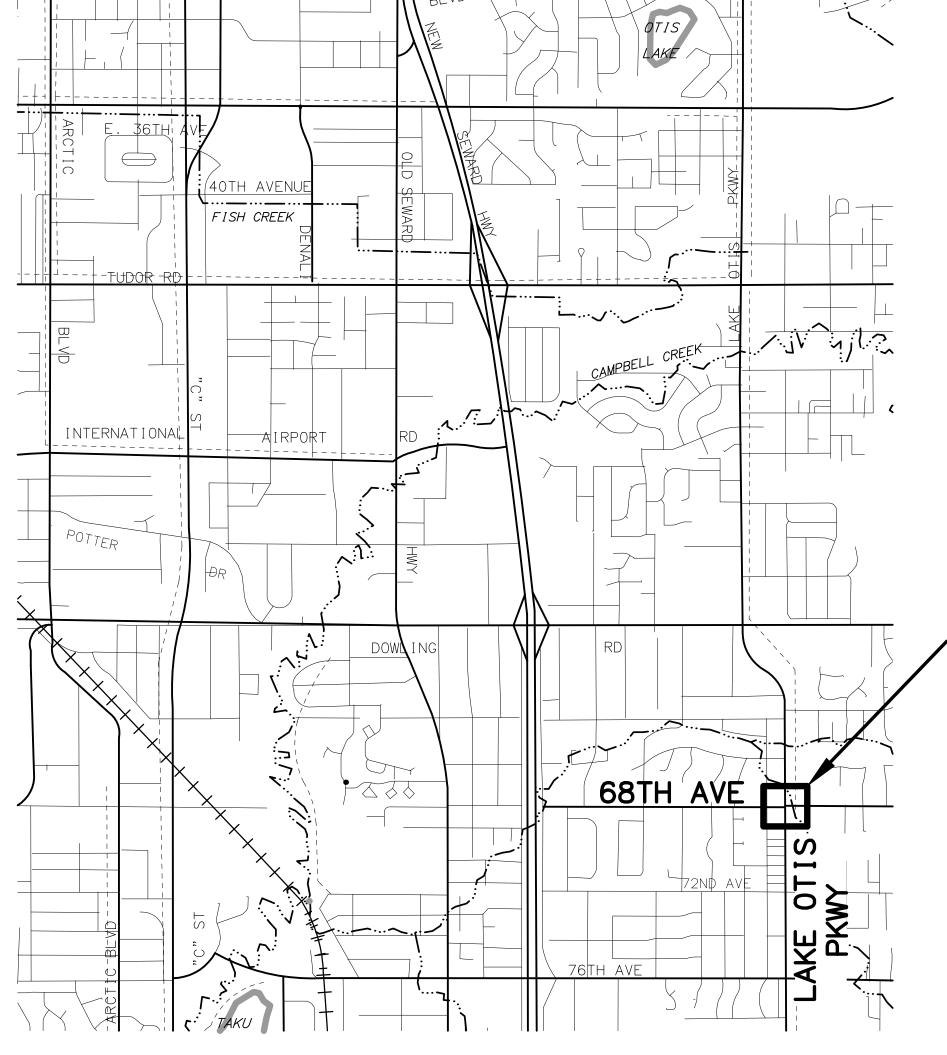
ALASKA

PROPOSED HIGHWAY PROJECT

HSIP: LAKE OTIS PARKWAY AT 68TH AVE CHANNELIZATION PROJECT NO: 0001299/Z566440000

SIGNALIZATION AND SIGNING





	PROJECT SUMM	MARY AND DES	SIGNATION	
ROADWAY SECTION	WIDTH	LENGTH	A.A.D.T. 2013	DESIGN SPEED
LAKE OTIS PARKWAY	109 FT	126 FT	22,040	50 MPH
68TH AVENUE	60 FT	147 FT	4,280	40 MPH

PROJECT LOCATION
LAKE OTIS PARKWAY
AT 68TH AVE

PLANS DEVELOPED BY: DOWL

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES 4111 AVIATION AVENUE, ANCHORAGE, AK 99502 (907)269-0590

ALASKA 0001(299)/Z566440000

LONGITUDE: -149.834214

CDS ROUTE: 134140 CDS ROUTE: 133732

LATITUDE: 61.159187

APPROVED:

REGIONAL PRE-CONSTRUCTION ENGINEER

CONCUR:

REGIONAL CONSTRUCTION ENGINEER DATE

DATE

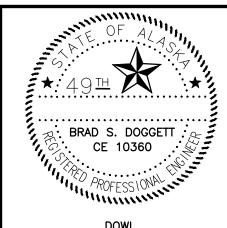
COMM COMMUNICATIONS DISPOSED OF WITHIN THE RIGHT- DIA DIAMETER DOT&PF STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DOG DRAWTING EA EACH EP EDGE OF PAVEMENT EVP EMERGENCY VEHICLE PREEMPTION FC FOOTCANDLE FDN FOUNDATION FG FINISH GRADE FL FLOW LINE (ELEV) GTT GLOBAL TRAFFIC TECHNOLOGIES IN SINCH FROM THE 2014-2015 MOA RESURI FROM THE 2014-2015	MENT. NO EXCESS MATERIAL SHALL ET-OF-WAY, UNLESS SPECIFICALLY CAD BY THE ENGINEER. AWN ON THE PLANS USING INFORMATS, AND SURVEYED MONUMENTS ON THE INSERTED USING A COMMON COORDINATE MADE WITH A SAW OR ALTERNATE METAD BY THE ENGINEER.	Y AND BE ALLED A ION FROM E NATE C THOD F H1-	ET NO. A1 TITLE SHEET A2 INDEX AND GI A3 LEGEND A4 SURVEY CONT C1 ESTIMATE OF D1 SUMMARY SHE E1 CURB RAMP D F1 PLAN AND GR	TROL SHEET F QUANTITIES EET DETAILS RADING SHEET
AL ARC LENGTH CL CENTER LINE COMM COMMUNICATIONS COMM COMMUNICATIONS DIA DIAMETER DOTAPF STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DWG DRAWING EA EACH EP EDGE OF PAVEMENT EVP EMERGENCY VEHICLE PREEMPTION FC FOOTCANDLE FDN FOUNDATION FC FOOTCANDLE FL FLOW LINE (ELEV) GTT GLOBAL TRAFFIC TECHNOLOGIES IN INCH AL ARC LENGTH TEMPORARY CONSTRUCTION SHALL BE CONTEMPORARY CONSTRUCTION AND PUBLIC FACILITIES DOTAPF PLATE OF ALASKA DEPARTMENT OF THE ROW LINES SHOWN WERE SYSTEM. SYSTEM. EP EDGE OF PAVEMENT EVP EMERGENCY VEHICLE PREEMPTION THE ROW LINES WERE SYSTEM. ALL PAVEMENT CUTS SHALL BE MADE APPROVED BY THE ENGINEER. FON FOUNDATION THE POUNDATION TO CONSTRUCTION, AND AS DIRECTED TO CONSTRUCTION, AND AS DIRECTED TO SOME OF THE EXISTING INFORMATION TO SOME OF THE EXISTING INFORMATION TO SOME THE CONSTRUCTION AND AS DIRECTED TO SOME OF THE EXISTING INFORMATION TO SOME SHALL BE MADE TO SOME OF THE EXISTING INFORMATION TO SOME THE CONSTRUCTION AND AS DIRECTED TO SOME OF THE EXISTING INFORMATION TO SOME THE CONSTRUCTION TO SOME THE CONSTRU	MENT. NO EXCESS MATERIAL SHALL ET-OF-WAY, UNLESS SPECIFICALLY CAD BY THE ENGINEER. AWN ON THE PLANS USING INFORMATS, AND SURVEYED MONUMENTS ON THE INSERTED USING A COMMON COORDINATE MADE WITH A SAW OR ALTERNATE METAD BY THE ENGINEER.	BE ALLED A A A A A A A A A A A A A A A A A A A	A1 TITLE SHEET A2 INDEX AND GI A3 LEGEND A4 SURVEY CONT C1 ESTIMATE OF D1 SUMMARY SHE E1 CURB RAMP D F1 PLAN AND GR	DESCRIPTION T GENERAL NOTES TROL SHEET F QUANTITIES EET DETAILS RADING SHEET
AL ARC LENGTH CL CENTER LINE COMM COMMUNICATIONS COMM COMMUNICATIONS DIA DIAMETER DOTAPF STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DWG DRAWING EA EACH EP EDGE OF PAVEMENT EVP EMERGENCY VEHICLE PREEMPTION FC FOOTCANDLE FDN FOUNDATION FC FOOTCANDLE FL FLOW LINE (ELEV) GTT GLOBAL TRAFFIC TECHNOLOGIES IN INCH AL ARC LENGTH TEMPORARY CONSTRUCTION SHALL BE CONTEMPORARY CONSTRUCTION AND PUBLIC FACILITIES DOTAPF PLATE OF ALASKA DEPARTMENT OF THE ROW LINES SHOWN WERE SYSTEM. SYSTEM. EP EDGE OF PAVEMENT EVP EMERGENCY VEHICLE PREEMPTION THE ROW LINES WERE SYSTEM. ALL PAVEMENT CUTS SHALL BE MADE APPROVED BY THE ENGINEER. FON FOUNDATION THE POUNDATION TO CONSTRUCTION, AND AS DIRECTED TO CONSTRUCTION, AND AS DIRECTED TO SOME OF THE EXISTING INFORMATION TO SOME OF THE EXISTING INFORMATION TO SOME THE CONSTRUCTION AND AS DIRECTED TO SOME OF THE EXISTING INFORMATION TO SOME SHALL BE MADE TO SOME OF THE EXISTING INFORMATION TO SOME THE CONSTRUCTION AND AS DIRECTED TO SOME OF THE EXISTING INFORMATION TO SOME THE CONSTRUCTION TO SOME THE CONSTRU	MENT. NO EXCESS MATERIAL SHALL ET-OF-WAY, UNLESS SPECIFICALLY CAD BY THE ENGINEER. AWN ON THE PLANS USING INFORMATS, AND SURVEYED MONUMENTS ON THE INSERTED USING A COMMON COORDINATE MADE WITH A SAW OR ALTERNATE METAD BY THE ENGINEER.	BE ALLED A A A A A A A A A A A A A A A A A A A	A1 TITLE SHEET A2 INDEX AND GI A3 LEGEND A4 SURVEY CONT C1 ESTIMATE OF D1 SUMMARY SHE E1 CURB RAMP D F1 PLAN AND GR	DESCRIPTION T GENERAL NOTES TROL SHEET F QUANTITIES EET DETAILS RADING SHEET
CL CENTER LINE COMM COMMUNICATIONS DIAMETER DOT&PF STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DOWN DWG DRAWING EA EACH EP EDGE OF PAVEMENT EVP EMERGENCY VEHICLE PREEMPTION FC FOOTCANDLE FD FOUNDATION FC FOOTCANDLE FD FOUNDATION FC FOOTCANDLE FL FLOW LINE (ELEV) GTT GLOBAL TRAFFIC TECHNOLOGIES IN CH IN CH COMMUNICATIONS DISPOSED OF WITHIN THE RIGHT-FOR IN THE PLANS OR DIRECTED DISPOSED OF WITHIN THE RIGHT-FOR IN THE ROW LINES SHOWN WERE DRAW DOT&PF, PLATTED SUBDIVISIONS GROUND. THE ROW LINES WERE SYSTEM. ALL PAVEMENT CUTS SHALL BE M. APPROVED BY THE ENGINEER. FDN FOUNDATION FC FOOTCANDLE FL FLOW LINE (ELEV) GTT GLOBAL TRAFFIC TECHNOLOGIES IN CH IN CH APPROVED FOR THE 2014-2015 MOA RESURI FROM THE 2014-2015 MOA RESURI FOR THE APPROVED FILED FIELD VERTIFIED. FILED PARTIALLY FILED VERTIFIED. FIL	MENT. NO EXCESS MATERIAL SHALL ET-OF-WAY, UNLESS SPECIFICALLY CAD BY THE ENGINEER. AWN ON THE PLANS USING INFORMATS, AND SURVEYED MONUMENTS ON THE INSERTED USING A COMMON COORDINATE MADE WITH A SAW OR ALTERNATE METAD BY THE ENGINEER.	BE ALLED A A A A A A A A A A A A A A A A A A A	A1 TITLE SHEET A2 INDEX AND GI A3 LEGEND A4 SURVEY CONT C1 ESTIMATE OF D1 SUMMARY SHE E1 CURB RAMP D F1 PLAN AND GR	TENERAL NOTES TROL SHEET F QUANTITIES EET DETAILS RADING SHEET
JB JUNCTION BOX LT LEFT MAX MAXIMUM ME MATCH EXISTING MIN MINIMUM MOA MUNICIPALITY OF ANCHORAGE MAY DIRECTED BY THE ENGINEER. CONSTRUCT CURB RAMPS TO AVOID DO NOT COVER SIGNAL POLE FOUL AND AND MONICIPALITY OF ANCHORAGE REPRESENTED AND/OR MAY HAVE OF DIRECTED BY THE ENGINEER. CONSTRUCT CURB RAMPS TO AVOID DO NOT COVER SIGNAL POLE FOUL AND AND MUNICIPALITY OF ANCHORAGE 7. ON STANDARD DRAWING C-03.10,	RFACING PROJECT PLANS, AND HAVE IELD CONDITIONS MAY NOT BE ACCUPTURE CHANGED. ADJUST INSTALLATIONS AND IMPACTING SIGNAL POLE FOUNDATUNDATION BOLTS AND BASE PLATES.	BEEN RATELY AS TIONS. TYPE II		RIPING, SIGNALIZATION

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT: C-03.10*, C-04.12, I-20.20, I-21.10*, S-00.11*, S-05.01, S-23.00, S-30.03, S-31.01, T-21.03, T-52.20, T-56.00

* AS MODIFIED HEREIN.

SPECIFICATION:

CONSTRUCT THE IMPROVEMENTS COVERED BY THESE PLANS IN ACCORDANCE WITH THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES 2015 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE PROJECT SPECIAL PROVISIONS AS OF THE ADVERTISEMENT DATE OF THIS PROJECT.



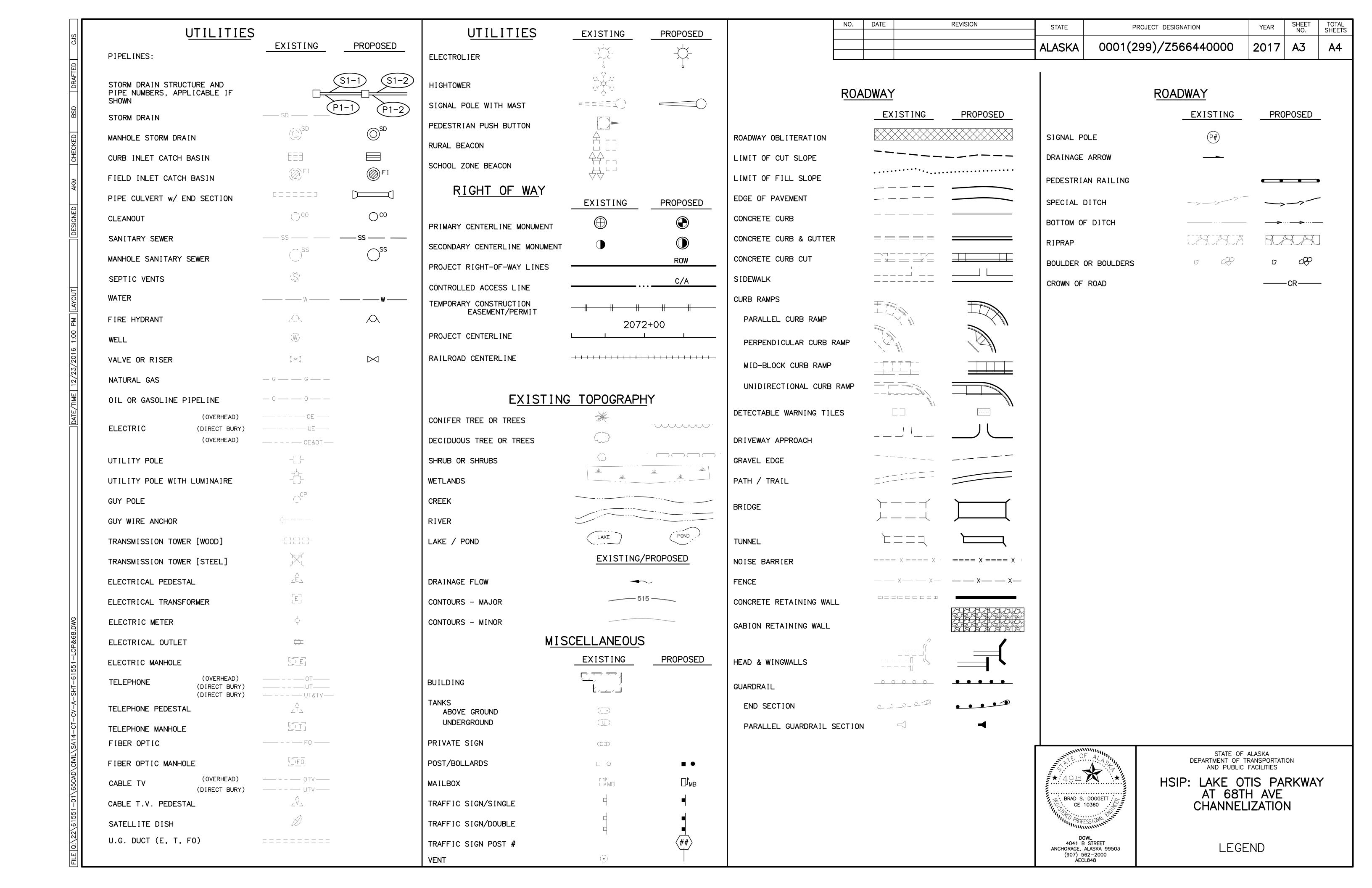
HSIP: LAKE OTIS PARKWAY AT 68TH AVE CHANNELIZATION

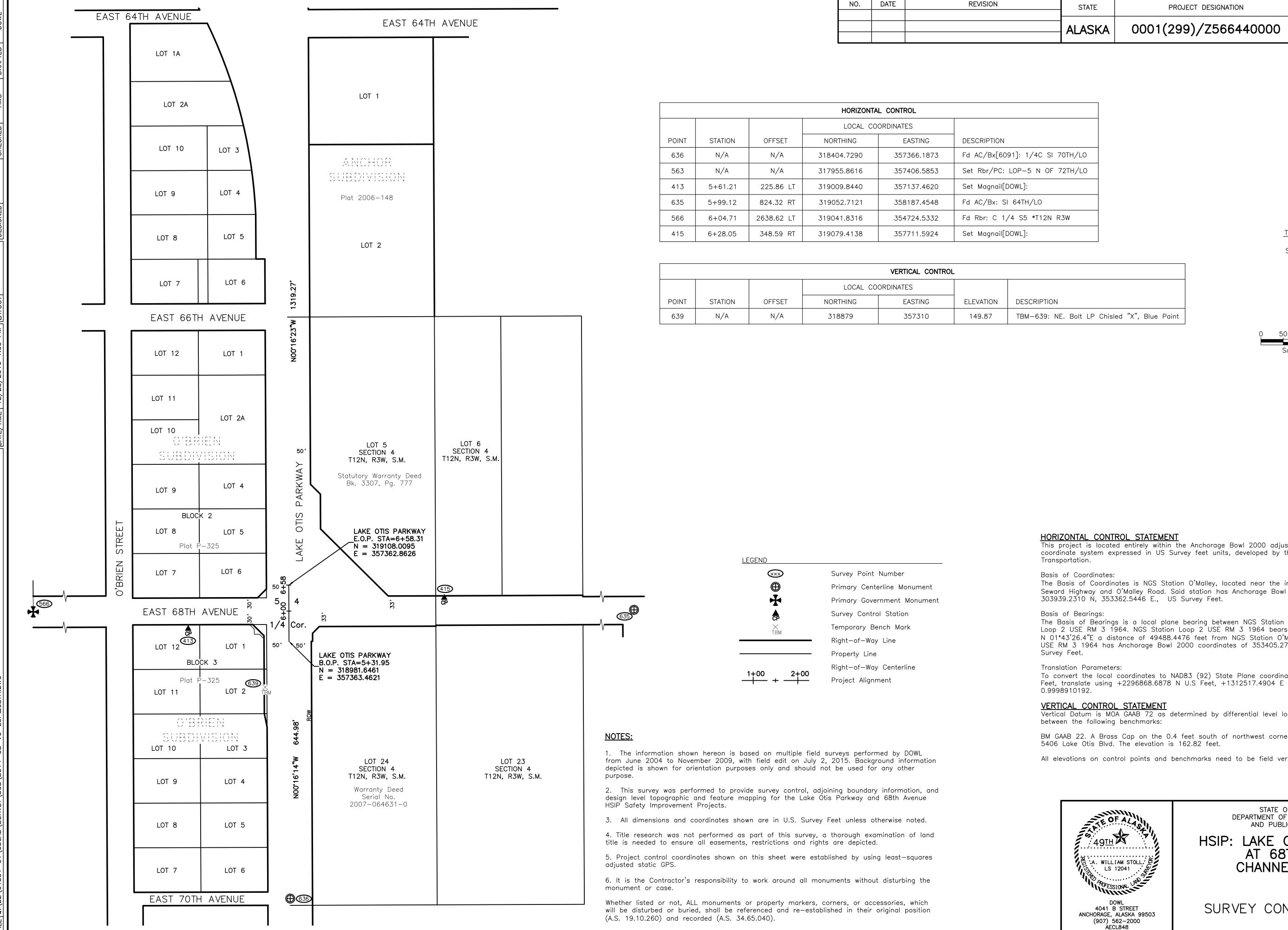
INDEX AND GENERAL NOTES

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

TOTAL SHEETS

DOWL 4041 B STREET ANCHORAGE, ALASKA 99503 (907) 562–2000 AECL848





This project is located entirely within the Anchorage Bowl 2000 adjustment, a local surface grid coordinate system expressed in US Survey feet units, developed by the Alaska Department of

The Basis of Coordinates is NGS Station O'Malley, located near the intersection of the New Seward Highway and O'Malley Road. Said station has Anchorage Bowl 2000 coordinates of 303939.2310 N, 353362.5446 E., US Survey Feet.

The Basis of Bearings is a local plane bearing between NGS Station O'Malley and NGS Station Loop 2 USE RM 3 1964. NGS Station Loop 2 USE RM 3 1964 bears N 01°43'26.4"E a distance of 49488.4476 feet from NGS Station O'Malley. NGS Station Loop 2

USE RM 3 1964 has Anchorage Bowl 2000 coordinates of 353405.2778 N, 354851.3982 E., U.S.

To convert the local coordinates to NAD83 (92) State Plane coordinates expressed in U.S. Survey Feet, translate using +2296868.6878 N U.S Feet, +1312517.4904 E U.S Feet, and scale using

Vertical Datum is MOA GAAB 72 as determined by differential level loops performed by DOWL

BM GAAB 22. A Brass Cap on the 0.4 feet south of northwest corner of a block building at 5406 Lake Otis Blvd. The elevation is 162.82 feet.

All elevations on control points and benchmarks need to be field verified before they are used.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

TOTAL SHEETS

A4

2017 A4

SEC. 4 & 5

Scale in Feet

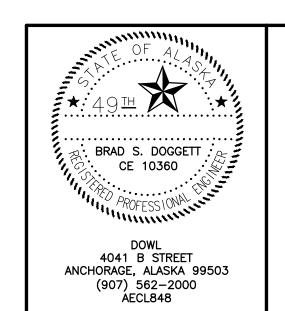
HSIP: LAKE OTIS PARKWAY AT 68TH AVE **CHANNELIZATION**

SURVEY CONTROL SHEET

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEET:
			ALASKA	0001(299)/Z566440000	2017	C1	C1

ITEM NIC	ITEM DESCRIPTION	DAV HAHT	QUANTITY
ITEM NO.		PAY UNIT	-
202(2)	REMOVAL OF PAVEMENT	SQUARE YARD	19
202(3)	REMOVAL OF SIDEWALK	SQUARE YARD	51
202(9)	REMOVAL OF CURB AND GUTTER	LINEAR FOOT	80
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	4
401(1A)	HMA, TYPE II; CLASS A	TON	3
401(4)	ASPHALT BINDER, GRADE PG 52-28	TON	0.2
608(1a)	CONCRETE SIDEWALK, 4 INCHES THICK	SQUARE YARD	51
608(6)	CURB RAMP	EACH	2
	CORD IVAIMI	LACIT	2
609(2)	CURB AND GUTTER, TYPE I	LINEAR FOOT	80
615(1)	STANDARD SIGN	SQUARE FOOT	50
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641(1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641(2)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	CONTINGENT SUM	ALL REQUIRE
641(6)	WITHHOLDING	CONTINGENT SUM	ALL REQUIRE
641(7)	SWPPP MANAGER	LUMP SUM	ALL REQUIRED
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRE
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643(3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRE
643(15A)	FLAGGING	CONTINGENT SUM	ALL REQUIRE
643(23)	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
643(25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRE
644(1)	FIELD OFFICE	LUMP SUM	ALL REQUIRE
644(10)	ENGINEERING COMMUNICATIONS	CONTINGENT SUM	ALL REQUIRED
646(1)	CPM SCHEDULING	LUMP SUM	ALL REQUIRE
660(17A)	TRAFFIC SIGNAL SYSTEM MODIFICATIONS (LAKE OTIS PARKWAY AND 68TH AVENUE)	LUMP SUM	ALL REQUIRE
660(20A)	SIGNAL SYSTEM TIMING AND ADJUSTMENTS (LAKE OTIS PARKWAY AND 68TH AVENUE)	CONTINGENT SUM	ALL REQUIRED
			ALL REQUIRE

	TABLE OF ESTIMATING FACTORS									
ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTOR								
301(1)	AGGREGATE BASE COURSE, GRADING D-1	144 LB/CF								
401(1A)	HMA, TYPE II; CLASS A	151 LB/CF								
401(4)	ASPHALT BINDER, GRADE PG 52-28	5.3% OF 401(1A)								



HSIP: LAKE OTIS PARKWAY AT 68TH AVE CHANNELIZATION

ESTIMATE OF QUANTITIES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(299)/Z566440000	2017	D1	D1

202(2)	REMOVAL OF PAVEMENT					
SHEET	FROM STATION	TO STATION	OFFSET	AREA (SY)	REMARKS	
F1	5+44.87	5+72.11	LT	9		
F1	6+28.70	6+58.05	RT	10		
			TOTAL	19		

202(3)	REMOVAL OF SIDEWALK					
SHEET	FROM STATION	TO STATION	OFFSET	AREA (SY)	REMARKS	
F1	5+44.88	5+72.11	LT	21		
F1	6+28.70	6+58.05	RT	30		
			TOTAL	51		

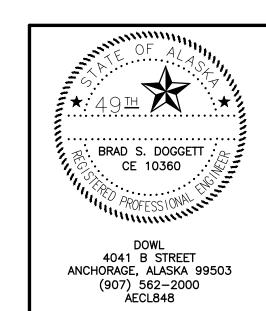
202(9)	REMOVAL OF CURB AND GUTTER					
SHEET	FROM STATION	TO STATION	OFFSET	LENGTH (LF)	REMARKS	
F1	5+44.88	5+72.11	LT	35		
F1	6+28.70	6+58.05	RT	45		
			TOTAL	80		

608(1a)	CONCRETE SIDEWALK, 4 INCHES THICK					
SHEET	FROM STATION	TO STATION	OFFSET	AREA (SY)	REMARKS	
F1	5+44.88	5+72.11	LT	21		
F1	6+28.70	6+58.05	RT	30		
			TOTAL	51		

608(6)	CURB RAMP					
SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS		
F1	5+64.10	55.73' LT	1	PARALLEL		
F1	6+36.47	39.09' RT	1	PARALLEL		
		TOTAL	2			

609(2)	CURB AND GUTTER, TYPE I				
SHEET	FROM STATION	TO STATION	OFFSET	LENGTH (LF)	REMARKS
F1	5+44.88	5+72.11	LT	35	
F1	6+28.70	6+58.05	RT	45	
-			TOTAL	80	

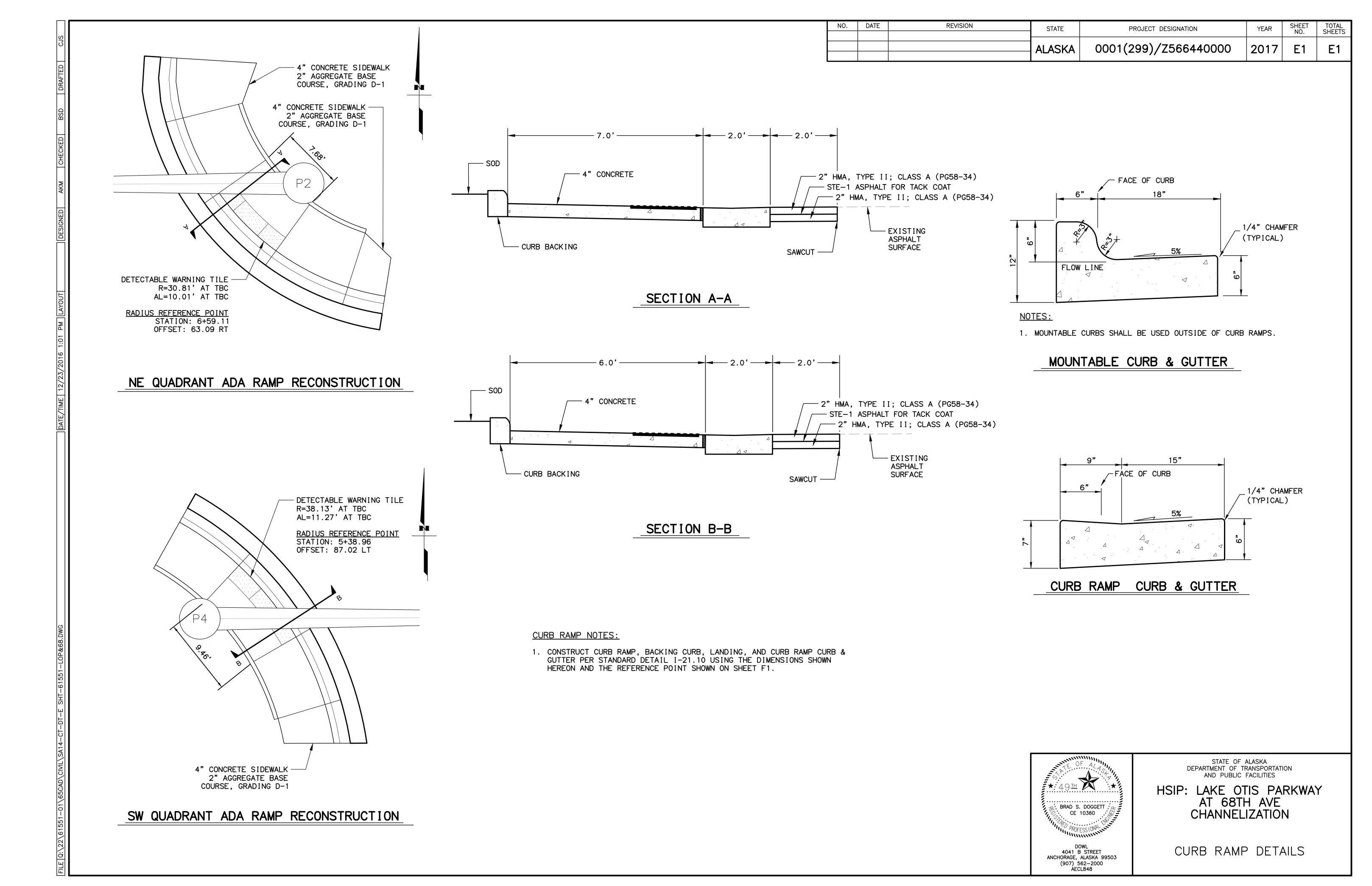
SUBSIDIARY TO 615(1)		SALVA	GE SIGN	
SHEET	STATION	OFFSET	QUANT I TY	REMARKS
H12	5+52.39	59.2 LT	4	POLE 4
H12	6+50.49	43.9 RT	4	POLE 2

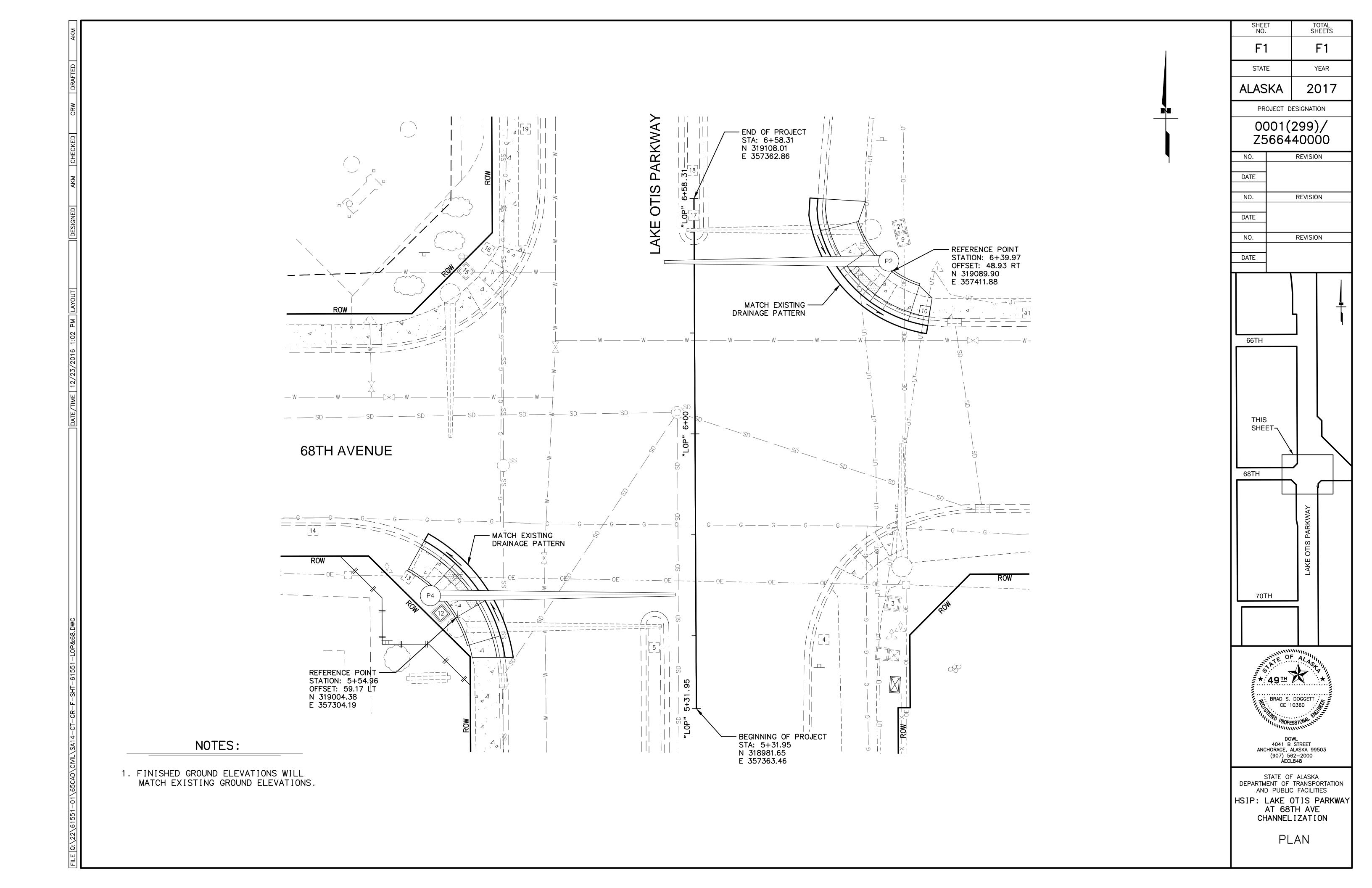


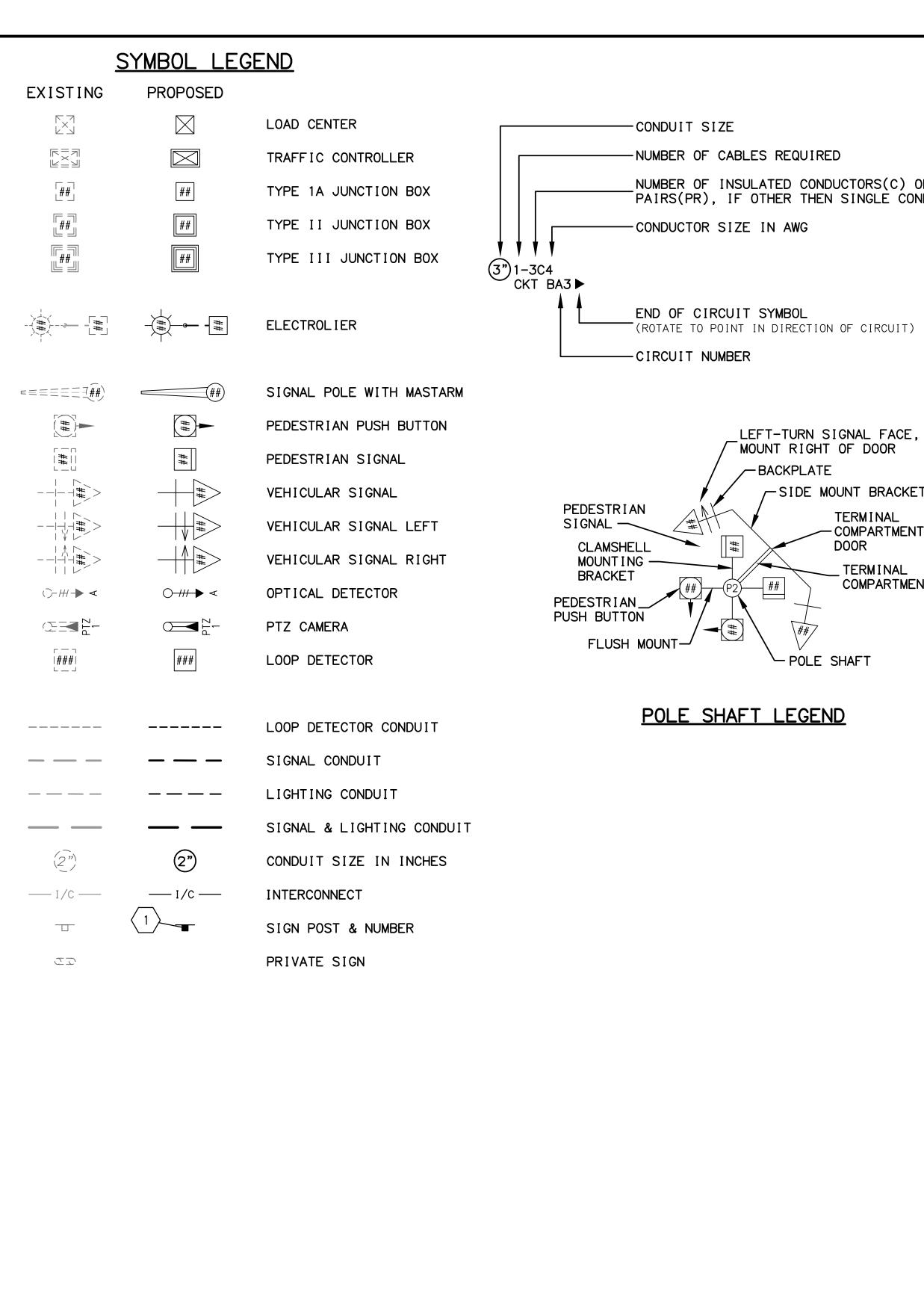
HSIP: LAKE OTIS PARKWAY AT 68TH AVE CHANNELIZATION

SUMMARY SHEET

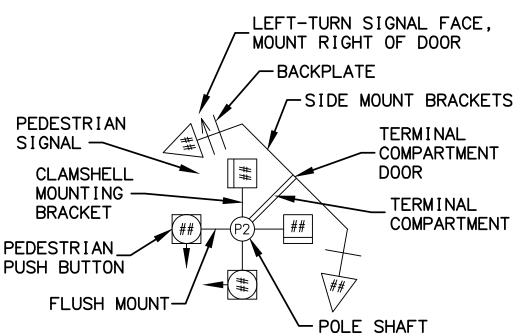
:\22\61551-01\65CAD\CIVIL\SA14-CT-DT-C-D SHT-61551-LOP&68.DWG







NUMBER OF INSULATED CONDUCTORS(C) OR PAIRS(PR). IF OTHER THEN SINGLE CONDUCTOR



CALL BEFORE YOU DIG!

CONTRACTOR SHALL CALL A MINIMUM OF 3 DAYS IN ADVANCE OF CONSTRUCTION

ALASKA DIGLINE....907-278-3121 OR 800-478-3121

CALL OR GO TO WWW.AKONECALL.COM/STATEWIDE.HTM FOR MEMBER LIST OF WHO WILL BE NOTIFIED

RRI	REV	ΙΔΤ	IONS
งมม	\mathbf{V}	$I \cap I$	

C - CENTERLINE SIG - SERVICE TO CONTROLLER

INTX - INTERSECTION

INTX L - INTERSECTION LIGHTING

LTG - LIGHTING FC - FOOTCANDLE

EVP - EMERGENCY VEHICLE PREEMPTION

DATE

GTT - GLOBAL TRAFFIC TECHNOLOGIES

PRE 2 - PREEMPTION #

PRE CON 2 - PREEMPTION CONTROLLER #

LC - LOAD CENTER

TC - TRAFFIC CONTROLLER

P1 - TRAFFIC SIGNAL POLE #

PEC - PHOTOELECTRIC CELL

YAGI - DIRECTIONAL ANTENNA

OMNI - OMNI DIRECTIONAL ANTENNA

HEAD - VEHICULAR SIGNAL HEAD

PED B 28 - PEDESTRIAN PUSH BUTTON #

PEDI - PEDESTRIAN SIGNAL HEAD

RMC - RIGID METAL CONDUIT

PE - POLYETHYLENE CONDUIT

LFNC - LIQUIDTIGHT FLEXIBLE

NONMETALLIC CONDUIT

AWG - AMERICAN WIRE GAUGE

NB - NORTH BOUND

EB - EAST BOUND

SB - SOUTH BOUND

WB - WEST BOUND

SIGNING & STRIPING NOTES:

- 1. ALL STATION LOCATIONS FOR SIGN INSTALLATION ARE APPROXIMATE. INSTALL SIGNS AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 2. USE THE FOLLOWING DEFINITIONS TO DECIPHER THE ABBREVIATED SIGN POST TYPES IN THE SIGN SUMMARY SHEETS.
 - A. PT MEANS A PERFORATED STEEL TUBE
 - B. T MEANS A SQUARE STEEL TUBE.
 - C. P MEANS A ROUND STEEL PIPE. D. W MEANS A WIDE FLANGE BEAM.
 - E. POPL MEANS A POLE PLATE INSTALLED PER ITS STANDARD DRAWING S-23
- 3. FABRICATE ALL SIGNS FROM 0.125" THICK ALUMINUM SHEETING. UNLESS STATED ELSEWHERE.
- 4. FOR SIGNS SUPPORTED BY MULTIPLE POSTS, FABRICATE THE POSTS WITH THEIR TOPS LEVEL WITH ONE ANOTHER
- 5. FOR PERFORATED STEEL TUBE SIGNPOSTS, INSTALL THE CONCRETE FOUNDATION OPTION SHOWN ON STANDARD DRAWING S-30.03. TRIM EACH PT POST TO LIMIT THE LENGTH INSERTED INTO THE FOUNDATION TO 12 INCHES.
- 6. FABRICATE GUIDE SIGNS ACCORDING TO THE SHOP DRAWINGS INCLUDED IN THE APPENDICES OF PART 4, CONTRACT PROVISIONS AND SPECIAL PROVISIONS. TRIM THE CORNERS OF ALL SIGNS TO THE RADIUS SHOWN ON EACH SHOP DRAWING.
- 7. ERECT NEW SIGNS BEFORE REMOVAL OF EXISTING SIGNS WITH SIMILAR MESSAGE. NOTIFY THE ENGINEER A MINIMUM OF 14 DAYS PRIOR TO BEGINNING SIGN REMOVAL AND SALVAGE OR DISPOSAL ACTIVITIES.
- 8. FOR SIGNS SUPPORTED BY MULTIPLE TUBES OR PIPES, LOCATE THE OUTER POSTS ON MAXIMUM SIX FEET CENTERS. INSTALL ADJACENT WIDE FLANGE POSTS ON MINIMUM EIGHT FEET CENTERS.
- 9. SELECTIVE AND HAND CLEARING SHALL BE PERFORMED AT THE DISCRETION OF THE ENGINEER, IN ACCORDANCE WITH SECTION 201, UPSTREAM OF ALL SIGN INSTALLATION LOCATIONS TO ACHIEVE MINIMUM SIGN VISIBILITY REQUIREMENTS. IF NOT INCLUDED AS A SEPARATE ITEM, THIS WORK SHALL BE SUBSIDIARY TO THE SIGN INSTALLATION ITEMS AND WORK.
- 10. FOR ALL FINAL PAVEMENT MARKINGS USE SURFACE APPLIED PAINT MATERIALS.
- 11. DIMENSIONS REFER TO THE CENTER OF STRIPE AND THE EDGE OF PAVEMENT OR FACE OF CURB WHEN PRESENT.
- 12. IF THE NEW AND EXISTING PAVEMENT MARKINGS ARE NOT ALIGNED AT MATCH LINE, TRANSITION BETWEEN THE TWO USING A 100:1 TAPER ON THE NEW PAVEMENT.
- 13. WHERE NEW STRIPING IS TO EXTEND BEYOND PAVING LIMITS, REMOVE EXISTING STRIPING IN ACCORDANCE WITH SUBSECTION 670-3.04 TO THE EXTENT OF STRIPING LIMITS.
- 14. ALL SIGNS SHALL BE MANUFACTURED WITH TYPE IX RETRO-FLECTIVE SHEETING. TYPE IV SIGN SHEETING IS UNACCEPTABLE ON MOA ROADWAYS.

NOTES:

REVISION

FOUNDATIONS NOTES:

STATE

ALASKA

1. STATION & C.L. REFERENCE ARE TO THE CENTER OF THE STRUCTURE, EXCEPT ON LOOPS WHICH ARE TO THE CENTER OF THE TRAILING EDGE OF THE LOOP (EDGE NEAREST INTERSECTION).

PROJECT DESIGNATION

0001(299)/Z566440000

TOTAL SHEETS

H21

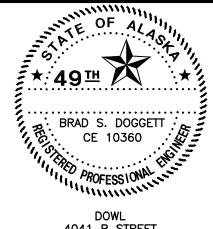
2017

H1

- 2. JUNCTION BOX LOCATIONS APPROXIMATE. LOCATE J-BOXES SO THAT THEY ARE LOCATED OUT OF THE PATHWAY, SIDEWALK, CURB RAMPS, DRIVEWAYS AND DRAINAGE COLLECTION AREAS.
- 3. INSTALL LOAD CENTER AND TRAFFIC CONTROLLER FOUNDATIONS WITHIN 1-DEGREE OF PLUMB.
- 4. INSTALL ANCHOR BOLTS IN CAST FOUNDATIONS TO BE WITHIN 1:40 OF PLUMB.
- 5. SOD ANY DISTURBED AREAS.

SIGNAL SYSTEM NOTES:

- 1. FURNISH THE SIGNAL AND LUMINAIRE MASTARM LENGTHS AND DIMENSIONS SPECIFIED ON THE POLE ELEVATIONS.
- 2. INSTALL DEVICES SUCH THAT THE DIMENSIONS SHOWN TO THE BOTTOM OF THE DEVICES ON THE POLE ELEVATIONS ARE MINIMUMS. VERTICAL DIMENSIONS TO SIGNAL HEADS ARE TO BOTTOM OF THE BACK PLATE.
- 3. INSTALL MAST ARMS PERPENDICULAR TO THE ROADWAY CENTERLINE. ACCEPTABLE VARIANCE IS +/- 1-DEGREE.
- 4. SALVAGE SIGNAL POLE ASSEMBLIES, SIGNS, SIGNAL FACES, AND LUMINARIES AND DELIVER TO MAINTENANCE AND OPERATIONS WITHIN 48-HOURS OF DECOMMISSIONING. COMPONENTS DAMAGED WHILE IN THE CONTRACTORS CUSTODY MUST BE REPLACED AT THE CONTRACTORS EXPENSE. REMOVE AND DISPOSE OF FOUNDATIONS.
- 5. SALVAGE EXISTING CONTROLLER CABINET AFTER NEW CONTROLLER CABINET IS IN SERVICE AND DELIVER TO MAINTENANCE AND OPERATIONS WITHIN 48-HOURS OF DECOMMISSIONING.
- 6. VEHICLE SIGNALS AND PEDESTRIAN SIGNALS SHALL BE LED MODULES.
- 7. REMOVE ABANDONED OR UNUSED TRAFFIC JUNCTION BOXES UNLESS OTHERWISE NOTED.
- 8. NEW SIGNAL HEADS THAT ARE MOUNTED BUT NOT IN OPERATION SHALL BE COVERED WITH A COMMERCIALLY AVAILABLE SIGNAL-SHIRT. EACH SIGNAL SHIRT SHALL FEATURE ELASTICIZED OPENINGS THAT FIT OVER THE VISORS AND AT LEAST TWO STRAPS TO SECURE IT TO THE SIGNAL. PROVIDE SHIRTS WITH A LEGEND THAT READS "OUT OF SERVICE" AND A CENTER SECTION THAT ALLOWS AN OPERATOR TO SEE THE INDICATIONS DURING SYSTEM TESTS.
- 9. SIGNAL HEADS ARE TO BE LOCATED PER FIGURE 4D-100, TYPICAL SIGNAL HEAD LOCATIONS, PER THE ALASKA TRAFFIC MANUAL. ACCEPTABLE VARIANCE IS +/- 1-F00T.
- 10. AIM SIGNALS PER TABLE 660-2, THROUGH-SIGNAL AIMING POINT, OF THE SPECIAL PROVISIONS. SIGNALS SHALL ALSO BE AIMED SO AS NOT TO BE VISIBLE FROM SIDE STREET TRAFFIC. ACCEPTABLE VARIANCE IS +/- 5 DEGREES.
- 11. EXISTING CIRCUITS LISTED ON THE LOAD CENTER SUMMARY AND PLAN SHEETS WERE OBTAINED FROM AS-BUILT INFORMATION AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO WORK INVOLVING THOSE CIRCUITS.
- 12. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL, INCLUDING ARROW BOARD DEVICE(S) FOR OVERHEAD INSPECTION AND LOCATE WORK PERFORMED BY MOA SIGNAL ELECTRONICS. CONTRACTOR SHALL BE ON-SITE AT COMPLETION OF LOCATES TO REVIEW LAYOUT AND MAKE STATIONING MEASUREMENTS FOR CONDUIT LOCATIONS.

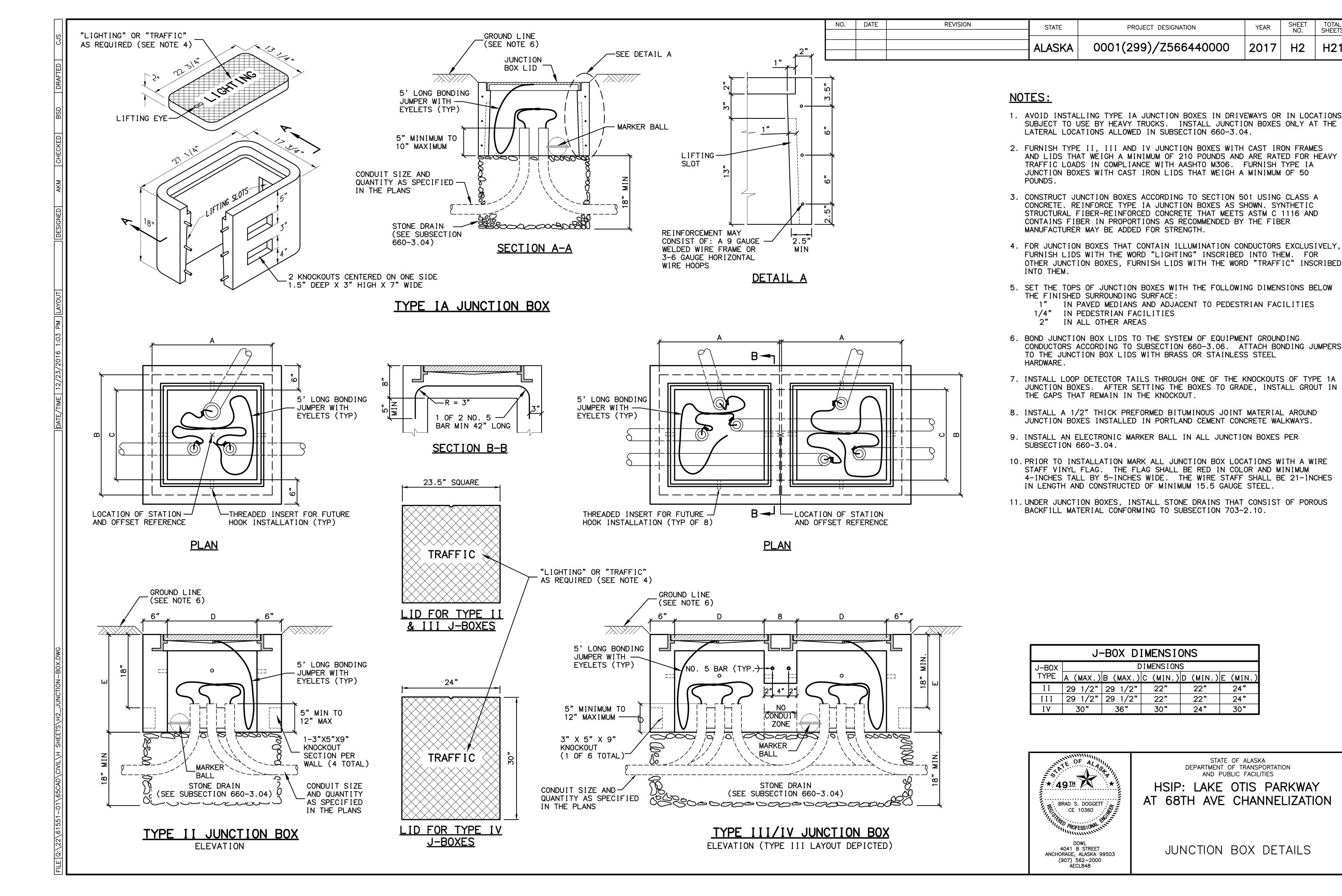


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: LAKE OTIS PARKWAY AT 68TH AVE CHANNELIZATION

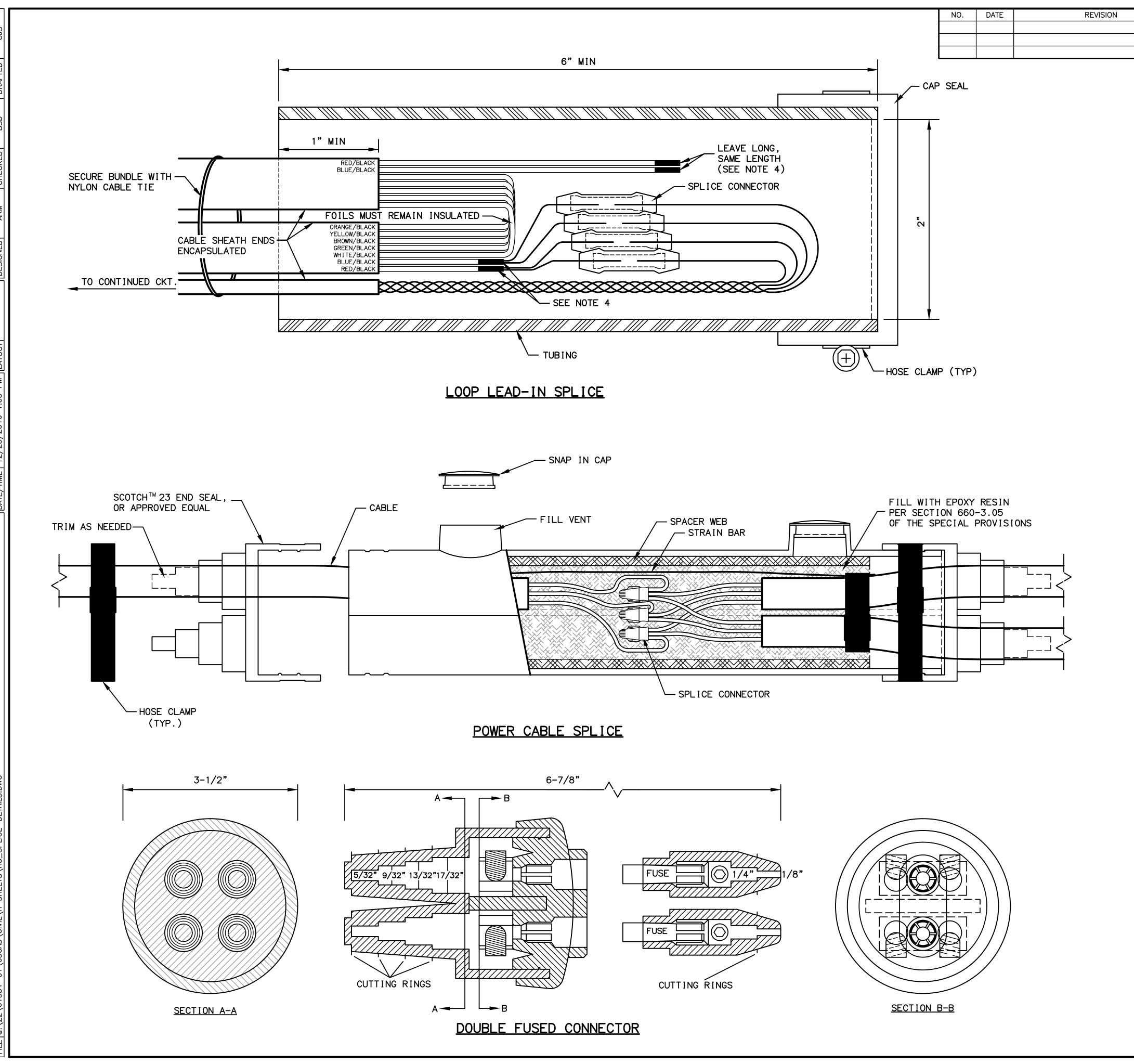
TRAFFIC LEGEND AND NOTES

4041 B STREET ANCHORAGE, ALASKA 99503 (907) 562-2000 AECL848



TOTAL SHEETS

H21



NOTES:

LOOP LEAD-IN SPLICE

ALASKA

- 1. FABRICATE LOOP LEAD-IN SPLICE IN THE FIELD AS SHOWN.
- 2. CAP SEAL ONE END AND COMPLETELY FILL OPEN END WITH RE-ENTERABLE ENCAPSULATION COMPOUND TO EDGE OF TUBING.

PROJECT DESIGNATION

0001(299)/Z566440000

TOTAL SHEETS

H21

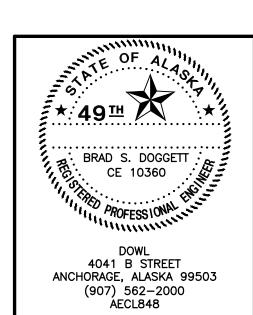
2017 H3

- 3. LEAVE A MINIMUM OF 1/2" CLEARANCE BETWEEN THE ENCLOSURE AND THE SPLICE AT BOTH ENDS OF THE TUBING.
- 4. EXPOSE FOIL AND DRAIN WIRES, SEAL WITH HEAT SHRINK TUBING (TYP).
- 5. INSTALL SPLICE CONNECTORS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

POWER CABLE SPLICE

6. SECURE CABLE/CONNECTOR BUNDLE WITH HOSE CLAMPS AS SHOWN.

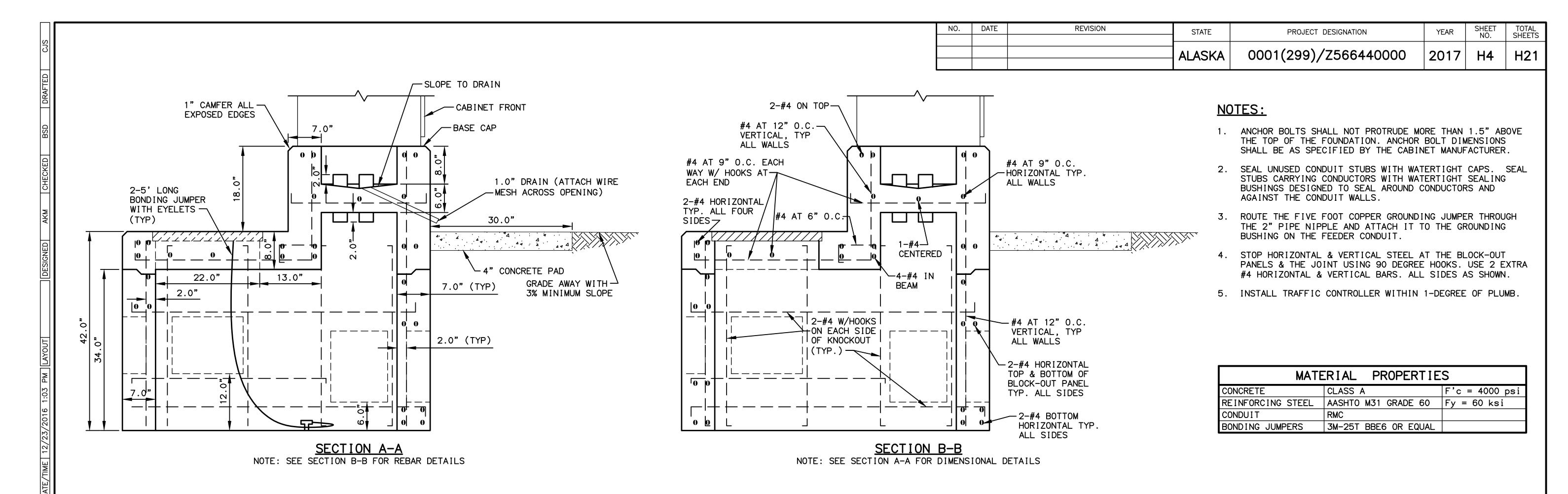
MATERIAL PROPERTIES						
L(OOP LEAD-IN SPLICE					
UBING	PER SECTION 660-3.05					
AP SEAL	FERNCO QWIK CAP #QC-102, OR APPROVED EQUAL					
IOSE CLAMP	STAINLESS STEEL					
PLICE CONNECTOR	ML56-16, OR APPROVED EQUAL					
OMPOUND	RE-ENTERABLE ENCAPSULATION					
POWER CABLE SPLICE						
PLICE KIT	3M MODEL 78R, OR APPROVED EQUAL					
PLICE CONNECTOR	SCOTCHLOCK G, R, OR Y SPRING CONNECTOR, OR APPROVED EQUAL					
IOSE CLAMP	(4)- STAINLESS STEEL					
POXY RESIN	PER SECTION 660-3.05					
·						
DOUBLE FUSED CONNECTOR						
OUBLE FUSED CONNECTOR	SEC-1791-DF-1, OR APPROVED EQUAL					
USES	(2) - COMPATIBLE 10-AMP					

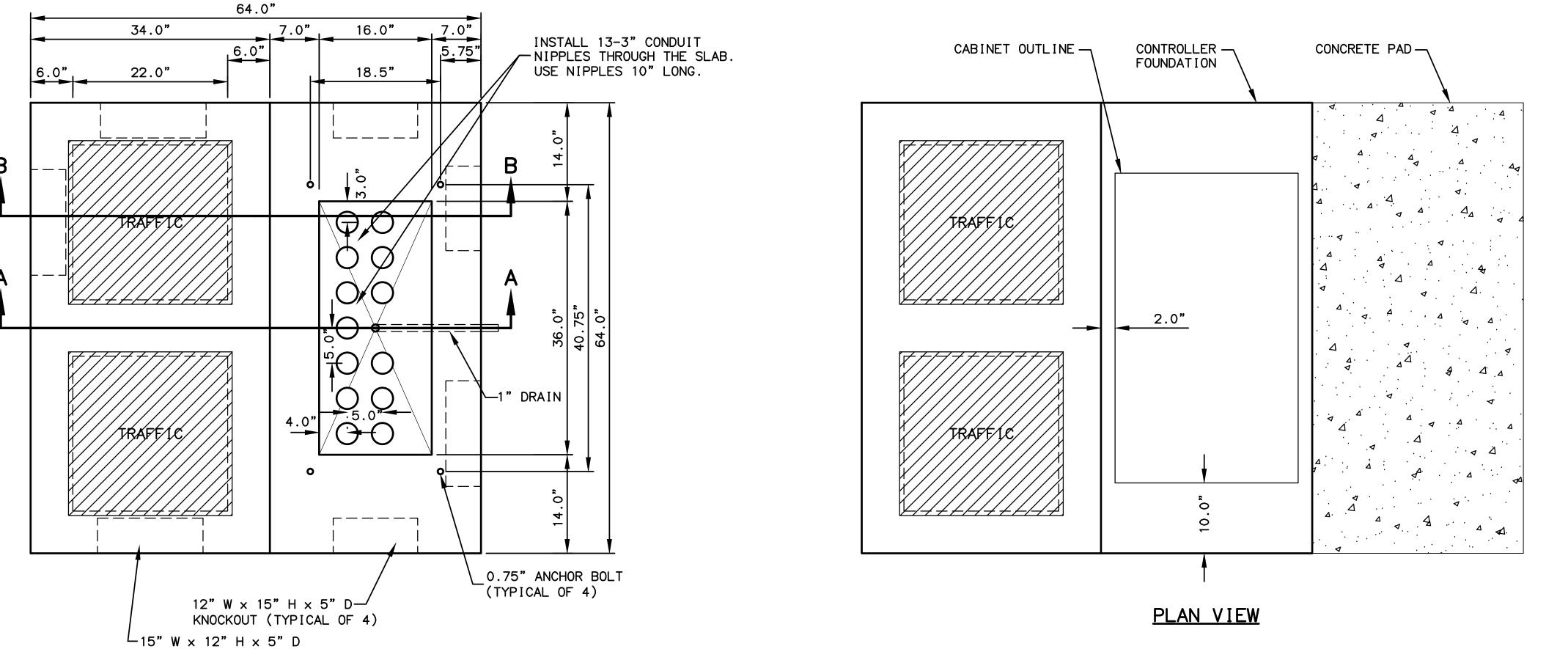


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: LAKE OTIS PARKWAY AT 68TH AVE CHANNELIZATION

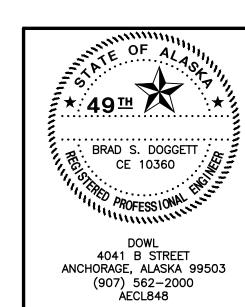
SPLICE DETAILS





KNOCKOUT (TYPICAL OF 4)

SIZE 6 OR 7 CONTROLLER CABINET FOUNDATION



STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION

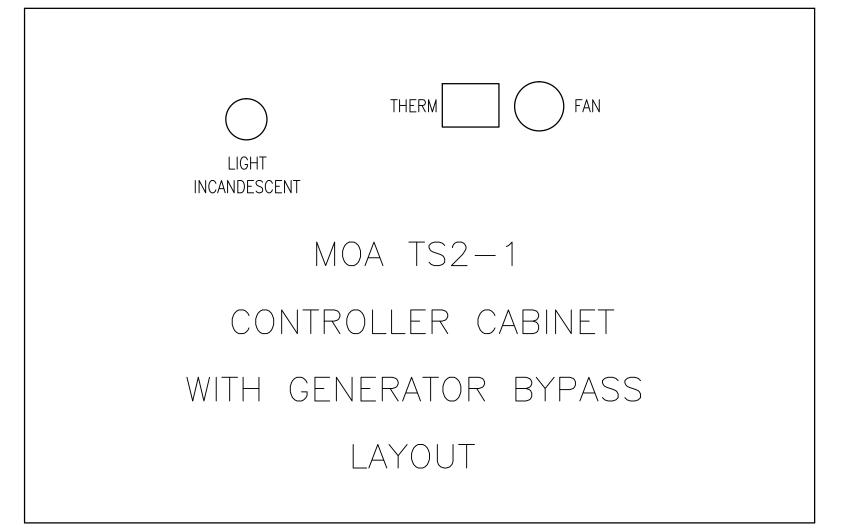
AND PUBLIC FACILITIES

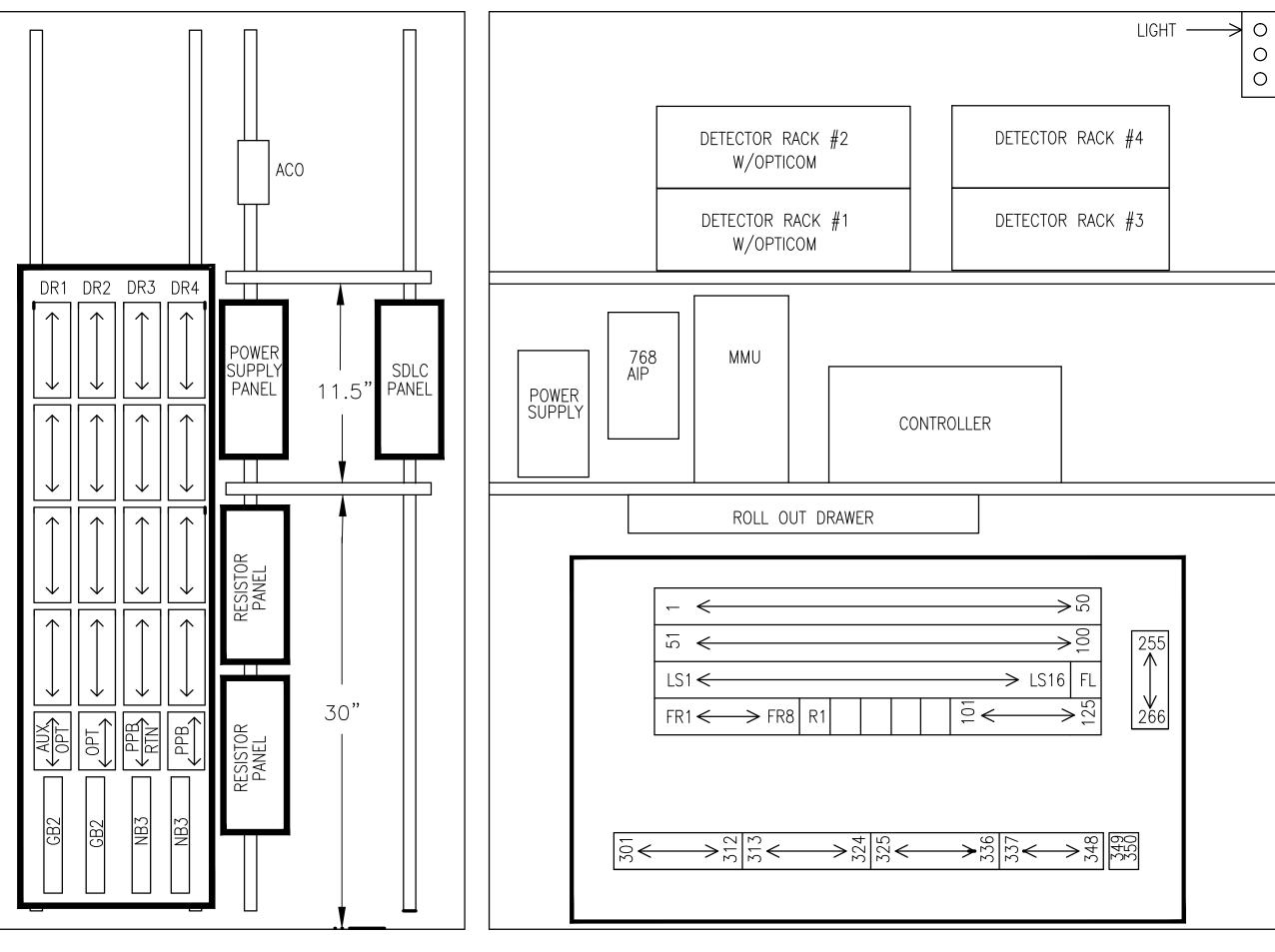
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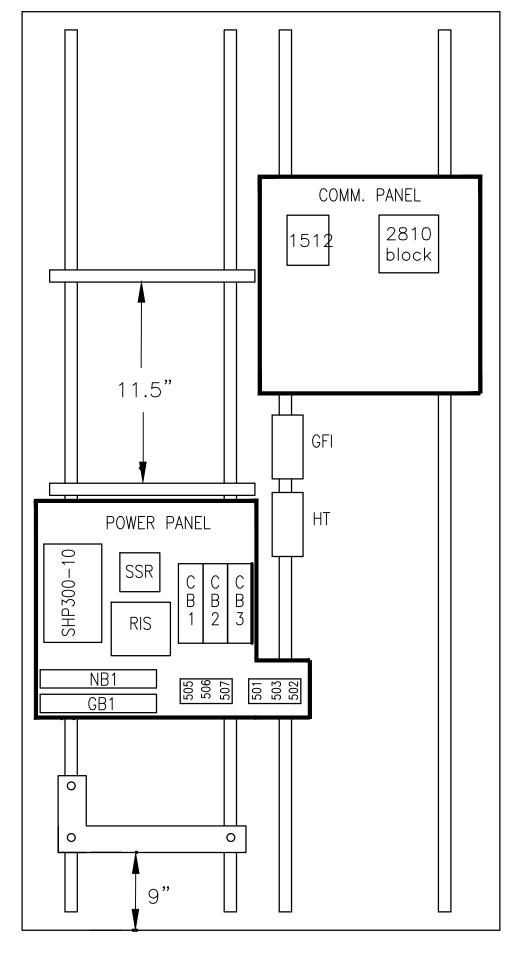
HSIP: LAKE OTIS PARKWAY AT 68TH AVE CHANNELIZATION

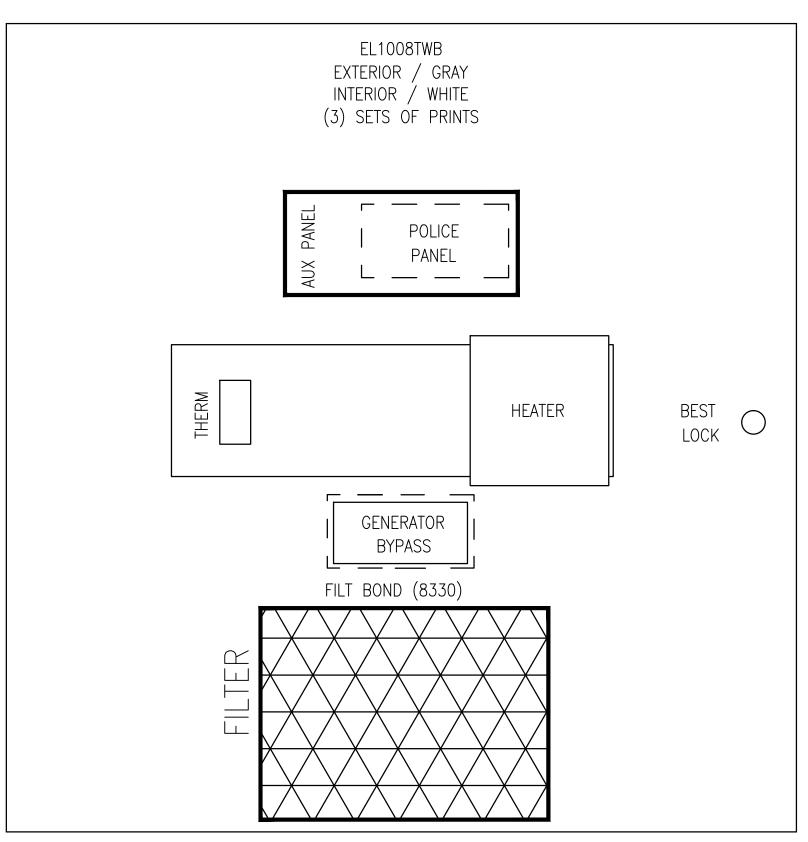
TS2 CONTROLLER CABINET FOUNDATION DETAILS

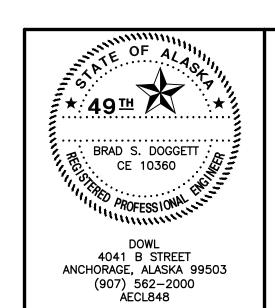
ALASKA 0001(299)/Z566440000 2017 H5 H2	NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEET
				ALASKA	0001(299)/Z566440000	2017	H5	H2 ⁻





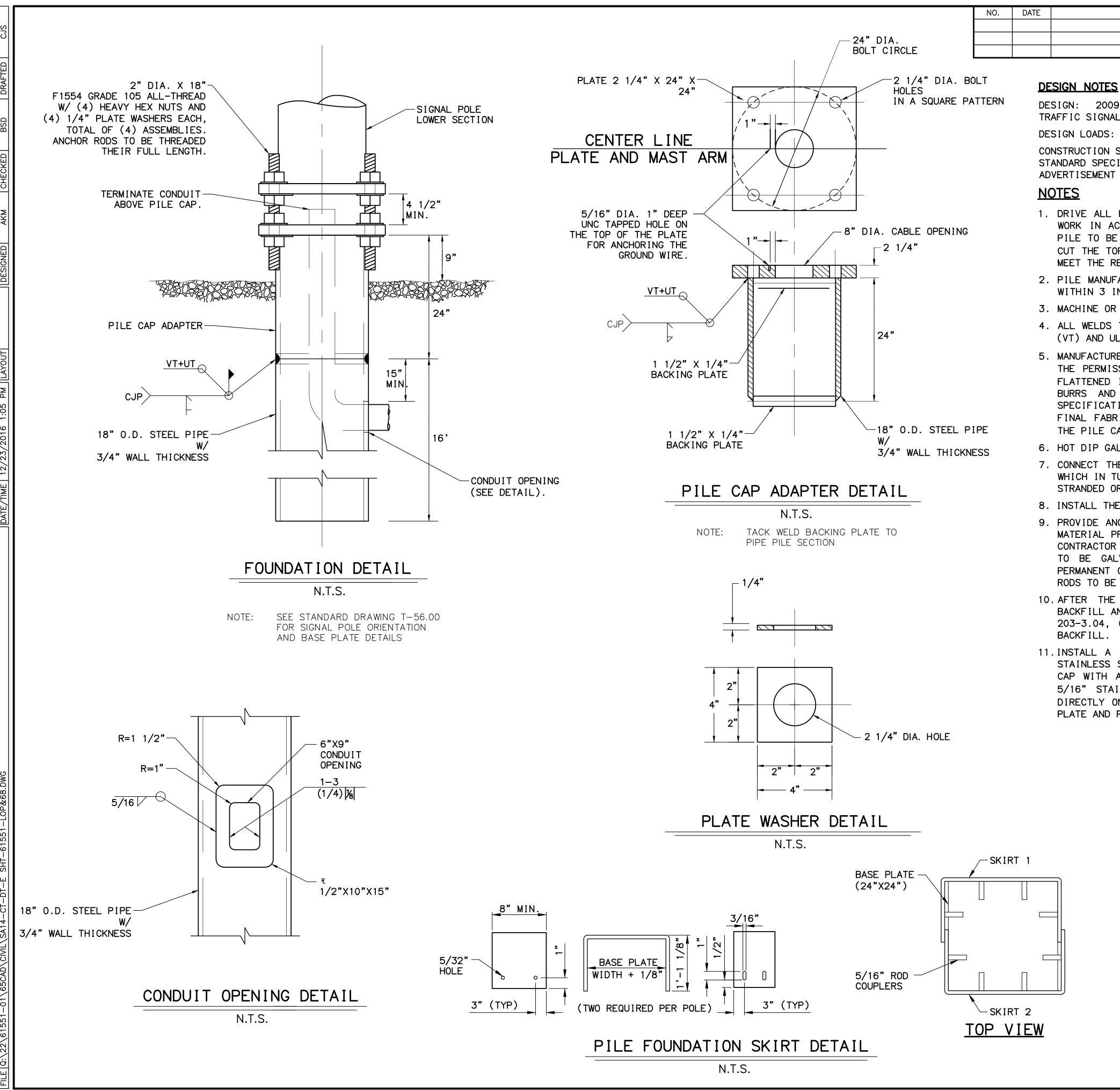






HSIP: LAKE OTIS PARKWAY AT 68TH AVE CHANNELIZATION

TS2-CONTROLLER ASSEMBLY LAYOUT WITH BYPASS



DESIGN: 2009 STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.

PROJECT DESIGNATION

0001(299)/Z566440000

SHEET NO.

H6

2017

TOTAL SHEETS

DESIGN LOADS: 6,500 LBS SHEAR, 175 KIP-FT MOMENT AND 6,500 LBS AXIAL.

STATE

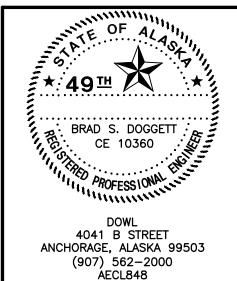
ALASKA

REVISION

CONSTRUCTION STANDARD: THE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES 2015 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND THE PROJECT SPECIAL PROVISIONS AS OF THE ADVERTISEMENT DATE OF THIS PROJECT.

- 1. DRIVE ALL PILES OPEN ENDED WITH FLUSH MOUNTED, HARDENED DRIVING SHOES. COMPLETE PILE DRIVING WORK IN ACCORDANCE WITH SECTIONS 505, 660 AND 715 OF THE STANDARD SPECIFICATIONS. INSTALLED PILE TO BE WITHIN 1/4" PER FOOT OF PLUMB. PILES OUT OF PLUMB MUST BE REMOVED AND REINSTALLED. CUT THE TOP OF THE PILE TO ACHIEVE PROPER ELEVATION. THE RESULTING BUTT JOINT ALIGNMENT SHALL MEET THE REQUIREMENTS OF AWS D1.1.
- 2. PILE MANUFACTURER TO PROVIDE THE REQUIRED PILE CAP ADAPTER. HOT DIP GALVANIZE THE ADAPTER TO WITHIN 3 INCHES OF THE TOE. DELIVER THE ADAPTER WITH ALL FASTENERS AND HARDWARE.
- 3. MACHINE OR PLASMA CUT ANY PENETRATION IN THE ADAPTER OR PILE. OXY-FUEL CUTTING IS PROHIBITED.
- 4. ALL WELDS TO BE SIZED BY THE MANUFACTURER. BOTH SHOP AND FIELD CJP WELDS TO BE 100% VISUALLY (VT) AND ULTRASONICALLY (UT) TESTED. SUBMIT WRITTEN RECORDS OF TESTS TO THE PROJECT ENGINEER.
- 5. MANUFACTURE THE ADAPTER TOP PLATE AND COMPONENTS FROM STEEL MEETING THE REQUIREMENTS OF ASTM A6. THE PERMISSIBLE BOW AND SWEEP OF THE ADAPTER TOP PLATE IS LIMITED TO 1/32". PLATE SHALL BE FLATTENED IN THE SHOP PRIOR TO FIT-UP AND WELDING IN THE SHOP. PRIOR TO HOT DIP GALVANIZING, BURRS AND IMPERFECTIONS SHALL BE REMOVED BY MILLING FOR ANY SURFACE NOT MEETING THIS SPECIFICATION. THE FLATNESS TOLERANCE LISTED HEREIN FOR THE ADAPTER TOP PLATE APPLIES TO THE FINAL FABRICATED PILE CAP ADAPTER. A MACHINING ALLOWANCE OF 1/4" HAS BEEN INCORPORATED INTO THE PILE CAP ADAPTER TOP PLATE FOR THE PURPOSE OF MEETING THIS REQUIREMENT.
- 6. HOT DIP GALVANIZE THE PILE TO WITHIN 3 INCHES OF THE TOP OF THE PILE PER AASHTO M111.
- 7. CONNECT THE GROUND WIRE TO THE PILE CAP ADAPTER TOP PLATE USING A BOLTED COMPRESSION FITTING WHICH IN TURN IS BOLTED TO THE TAPPED HOLE SHOWN ON THE DETAIL. GROUND WIRE SHALL BE BARE SOLID, STRANDED OR BRAIDED COPPER.
- 8. INSTALL THE PILE CAP ADAPTER TO WITHIN 0.1 DEGREES OF PLUMB.
- 9. PROVIDE ANCHOR ROD MATERIAL MEETING THE REQUIREMENTS SHOWN ON THE DETAIL AND AS LISTED IN THE MATERIAL PROPERTIES TABLE. THE ANCHOR RODS ARE SUBJECT TO CHARPY V-NOTCH IMPACT TESTING. THE CONTRACTOR SHALL SUBMIT MILL CERTIFICATIONS FOR ANCHOR RODS, NUTS AND WASHERS. ANCHOR RODS ARE TO BE GALVANIZED THEIR FULL LENGTH. PROVIDE PERMANENT MANUFACTURER'S IDENTIFICATION AND PERMANENT GRADE SPECIFICATION ON EACH OF THE ANCHOR ROD BY MEANS OF A STEEL DIE STAMP. ANCHOR RODS TO BE SNUG-TIGHT TO THE POLE BASE PLATE AND PILE CAP ADAPTER TOP PLATE.
- 10. AFTER THE FIELD WELDING, ELECTRICAL CONDUIT, AND ELECTRICAL CONDUCTOR WORK IS COMPLETE, BACKFILL AND COMPACT SOIL AROUND THE INSTALLED PILE IN ACCORDANCE WITH SECTION 205, SUBSECTIONS 203-3.04, 660-3.01 AND 660-3.02 OF THE SPECIFICATIONS. USE SELECT TYPE A MATERIAL ONLY AS BACKFILL
- 11.INSTALL A 10 GAUGE SHEET STEEL SKIRT AROUND THE SIGNAL POLE BASE AND PILE CAP FASTENED WITH STAINLESS SHEET METAL SCREWS. SIZE SKIRT TO COVER GAP BETWEEN SIGNAL POLE BASE PLATE AND PILE CAP WITH APPROXIMATELY 1" OVERLAP ON EACH PLATE. CONTRACTOR SHALL DRILL HOLES FOR MOUNTING 5/16" STAINLESS STEEL BOLTS WITH 5/16" ROD COUPLERS. TWO ROD COUPLERS SHALL BE INSTALLED DIRECTLY ON TOP OF THE PILING PLATE. TWO ROD COUPLERS SHALL BE INSTALLED DIRECTLY BELOW POLE PLATE AND PERPENDICULAR TO THE FIRST SET OF ROD COUPLERS.

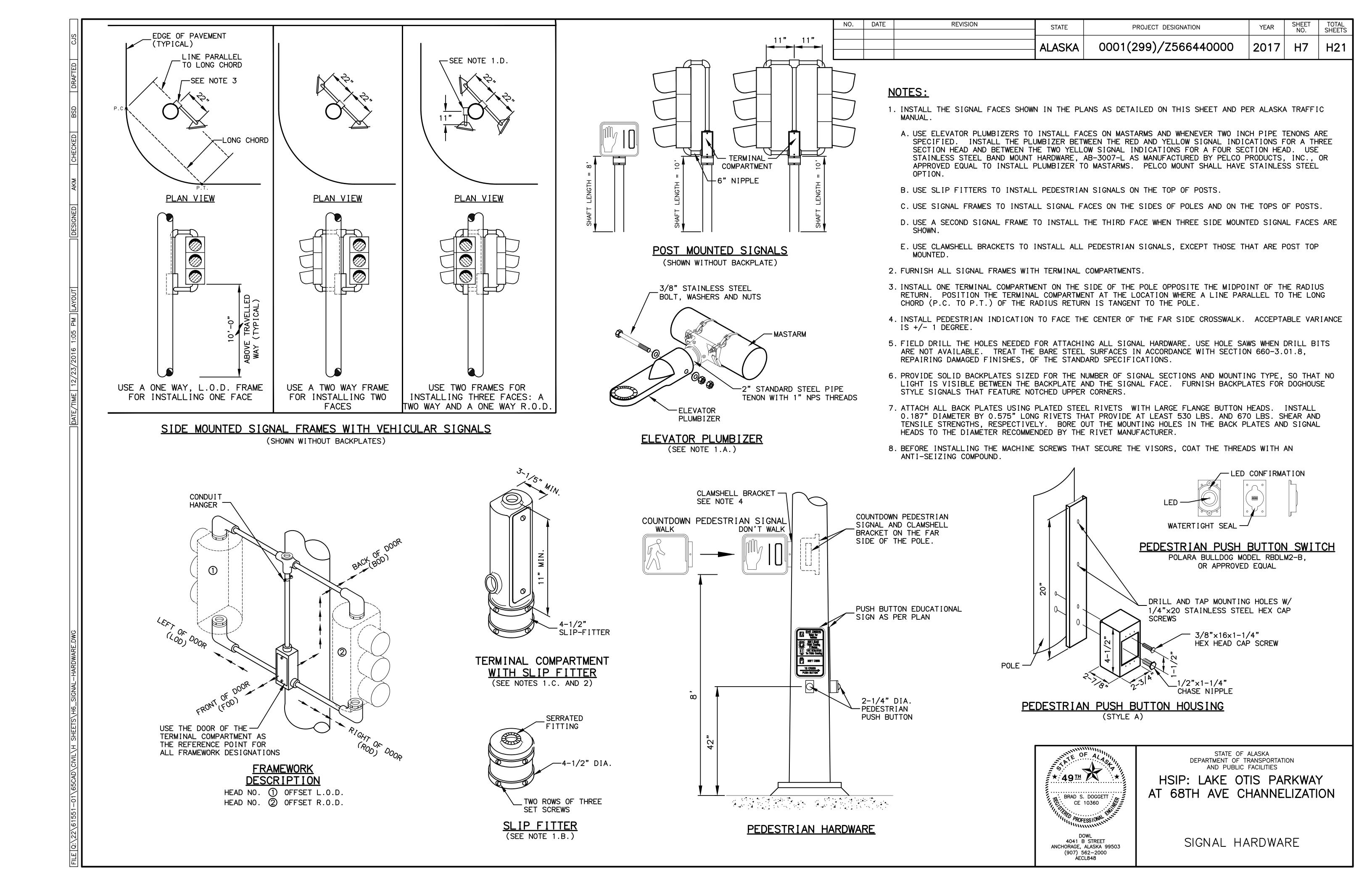
MATERIAL PROPERTIES						
FASTENERS, WASHERS	AASHTO M270	GRADE 36				
FASTENERS, NUTS	AASHTO M292					
ANCHOR ROD AND HARDWARE FINISH	AASHTO M232					
ANCHOR PLATE	AASHTO M270 F3	GRADE 50				
PIPE PILE	API 5L	GRADE 52				
PIPE PILE AND ADAPTER FINISH	AASHTO M111					
CONDUIT	SCH 40	RMC				
GROUND WIRE		#4 AWG				



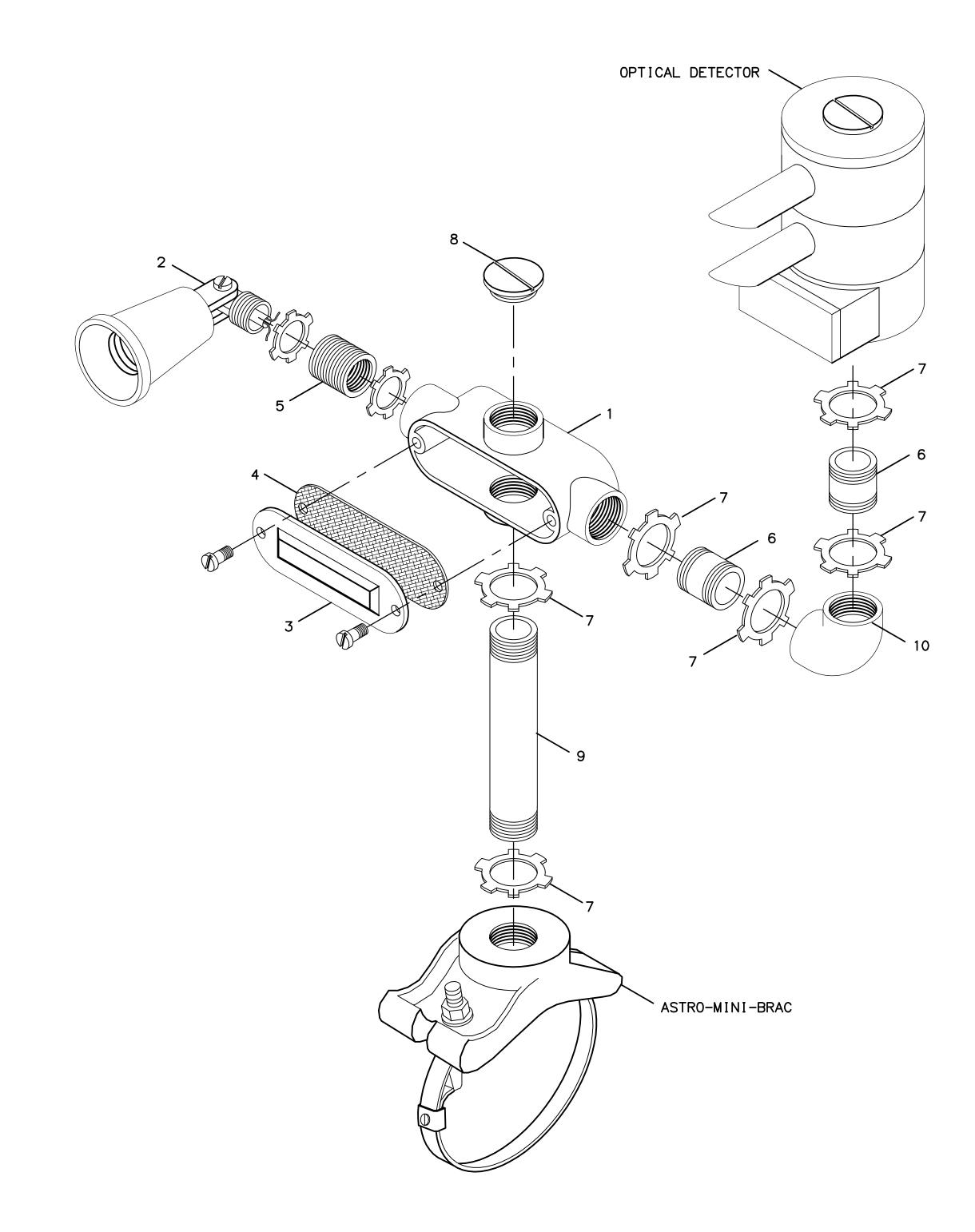
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: LAKE OTIS PARKWAY AT 68TH AVE CHANNELIZATION

TRAFFIC SIGNAL PILE FOUNDATION DETAILS



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(299)/Z566440000	2017	H8	H21



PARTS LIST FOR EACH GTT OPTICOM DETECTOR INSTALLED

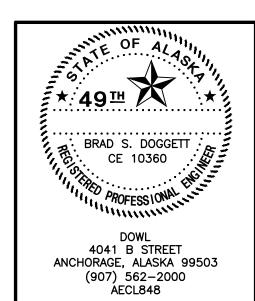
GTT OPTICOM MODEL 575 CONFIRMATION LIGHT KIT CONFIGURE AS SHOWN FROM PARTS BELOW

PART NO.	PART TYPE	LIGHT KIT
1	"X" CONDUIT BODY	QUANT I TY
<u>!</u>		<u> </u>
2	PAR 38 LAMP HOLDER	2
3	CONDUIT COVER	1
4	COVER GASKET	1
5	REDUCING BUSHING	2
6	3/4"X2" GALVANIZED NIPPLE	ADD 2 TO KIT
7	3/4" LOCKNUT	6
8	3/4" HOLE PLUG	2
9	3/4" X 6" NIPPLE	ADD 1 TO KIT
10	3/4" X 90° ELBOW	ADD 1 TO KIT

NOTES:

- 1. SEE THE SIGNAL PLANS FOR THE SIGNAL POLE MAST ARMS SCHEDULED FOR EVP INSTALLATION.
- 2. FOR EACH EVP INSTALLATION, FURNISH:
 - A. A GTT MODEL 711, 721, 722 OPTICOM DETECTOR AS CALLED FOR IN PLANS.
 - B. AN ASTRO-MINI-BRAC, MODEL AB-0155-L, AS MANUFACTURED BY PELCO PRODUCTS OR AN APPROVED EQUAL.
 - C. A GTT MODEL 575 CONFIRMATION LIGHT KIT WITH THE ADDITIONAL PARTS SHOWN IN THE PARTS LIST, OR STEEL PARTS, WITH A HOT DIP GALVANIZED FINISH, AS SHOWN IN THE PARTS LIST.
 - D. WITH EACH OPTICOM DETECTOR INSTALLED, FURNISH A PAR38 20 WATT LED FLOOD LAMP RATED FOR 120 VOLT OPERATION, 1250 INITIAL LUMENS, AND A 25000 HOUR LAMP LIFE.
- 3. MOUNT EVP DETECTORS TO HAVE DIRECT, UNOBSTRUCTED LINE-OF-SIGHT OF APPROACHING VEHICLES. DRILL A 1 INCH HOLE IN THE TOP DEAD CENTER OF THE MAST ARM AT THE LOCATION PRE-APPROVED BY THE ENGINEER. ASSEMBLE AND TIGHTEN THE PARTS AND LOCKNUTS AS SHOWN ON THIS SHEET.
- 4. BEFORE ATTACHING THE MODEL 138 DETECTOR CABLE TO THE OPTICOM DETECTOR, STRIP THE INSULATION FROM THE THREE INSULATED CONDUCTORS AT THE CONTROLLER CABINET AND ATTACH ALL FOUR CONDUCTORS TO GROUND.
- 5. PREEMPTION EMITTERS SHALL BE ASSIGNED ID NUMBERS BY JURISDICTION AS SHOWN IN VEHICLE EMITTER TABLE.

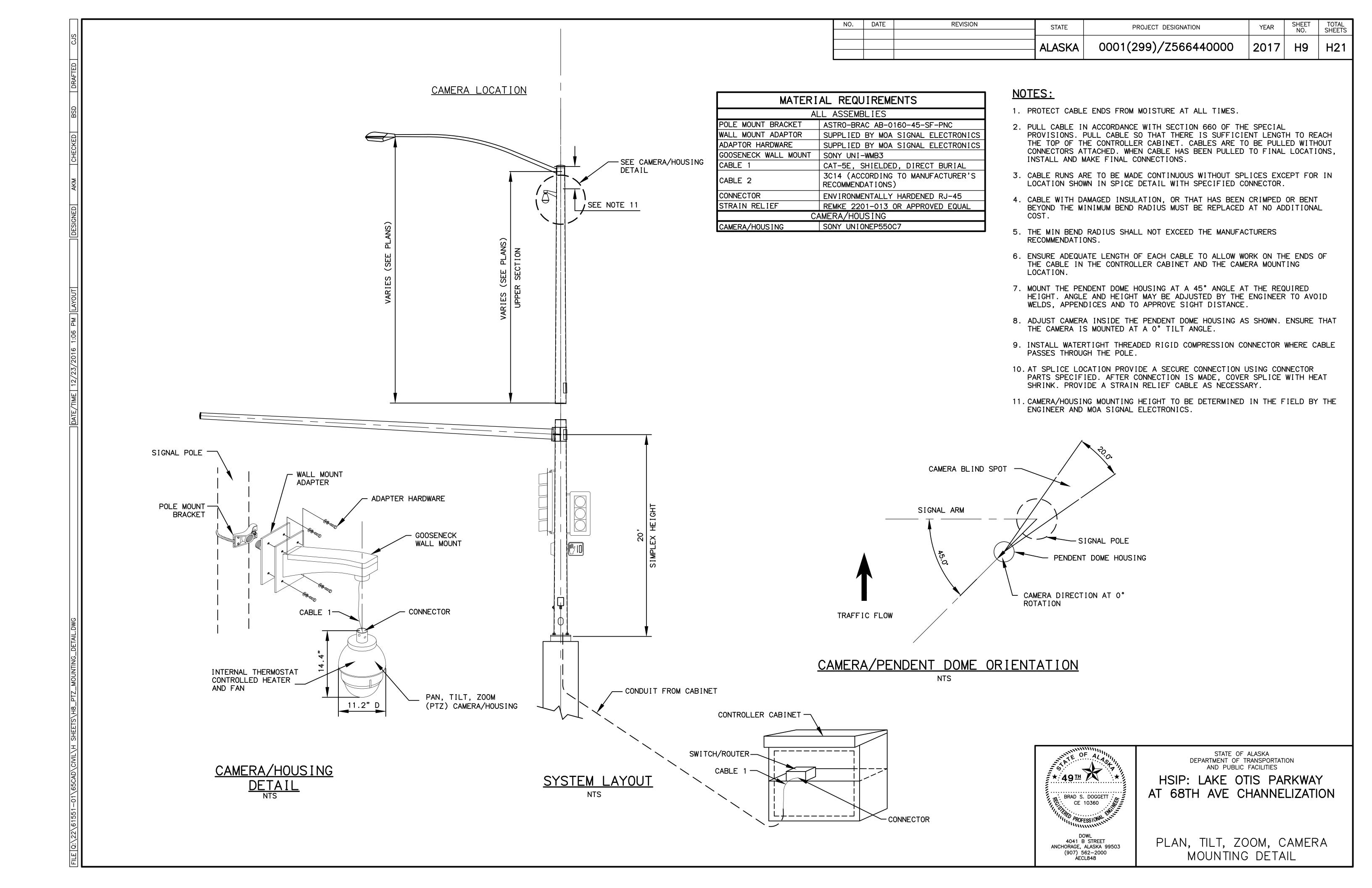
VEHICLE EMITTER TABLE							
CLASS	VEHICLE I.D. NO.	JURISDICTION	VEHICLE TYPE				
0	NOT USED	MUNICIPALITY OF ANCHORAGE	FIRE & EMS				
1	NOT USED	MUNICIPALITY OF ANCHORAGE	OTHER				
2	NOT USED	FAIRBANKS	FIRE & EMS				
3	NOT USED	FAIRBANKS	OTHER				
4	1-30	MATANUSKA/SUSITNA	FIRE & EMS				
5	NOT USED	MATANUSKA/SUSITNA	OTHER				
6	NOT USED	KENAI PENINSULA	FIRE & EMS				
7	NOT USED	KENAI PENINSULA	OTHER				
8	NOT USED	ELMENDORF/FT. RICHARDSON	FIRE & EMS				
9	NOT USED	ELMENDORF/FT. RICHARDSON	OTHER				

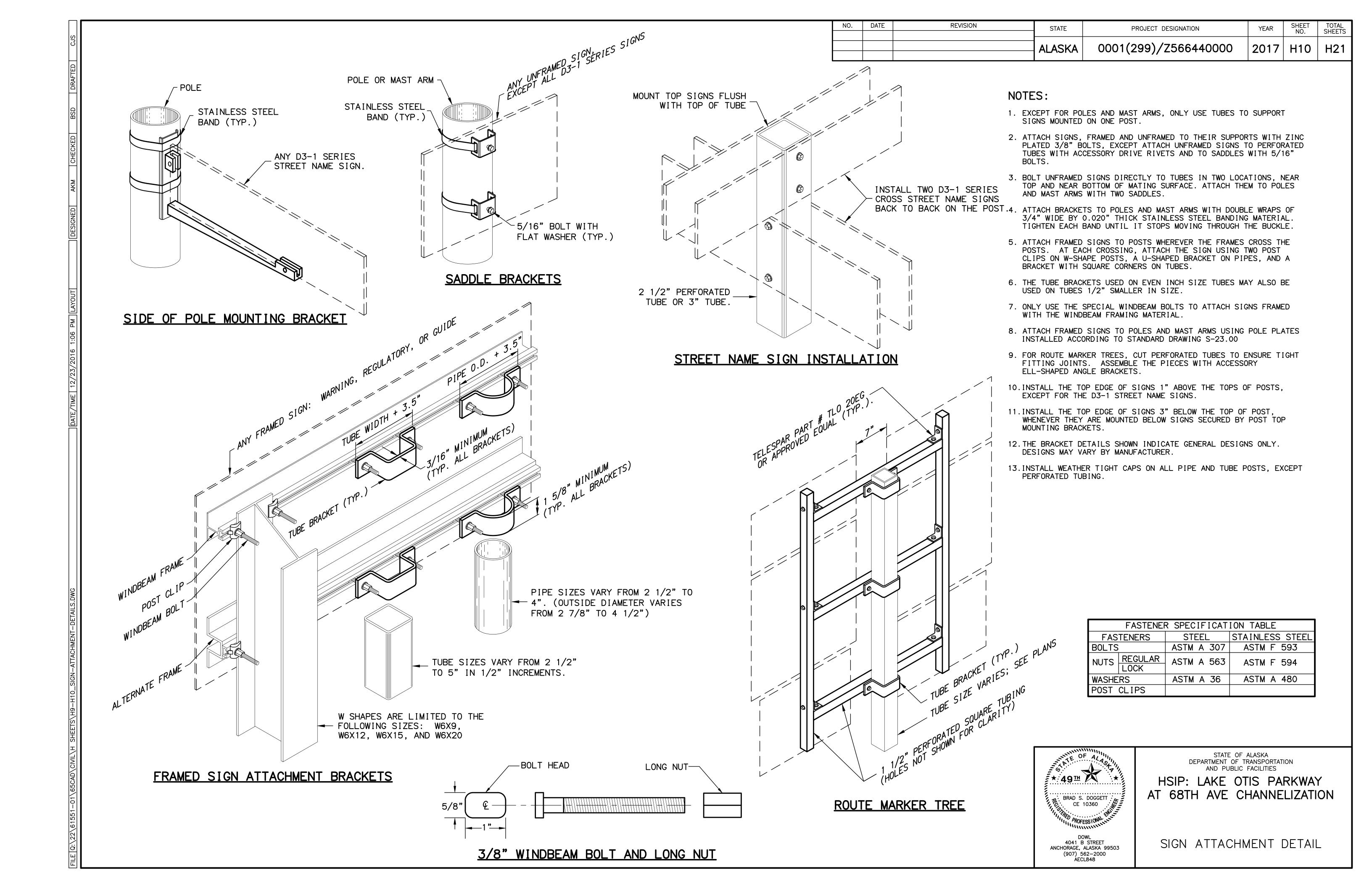


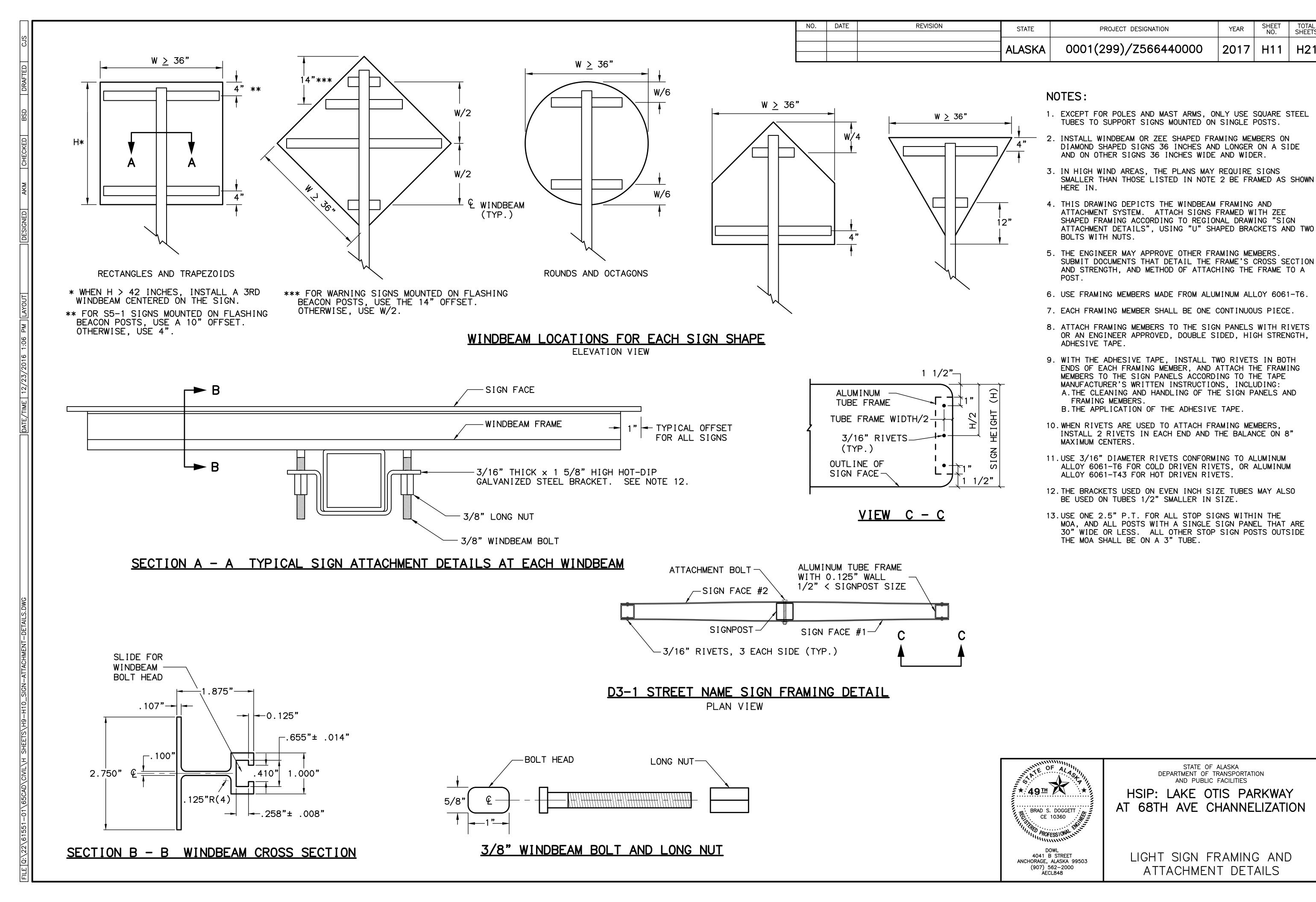
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: LAKE OTIS PARKWAY AT 68TH AVE CHANNELIZATION

EVP INSTALLATION DETAILS

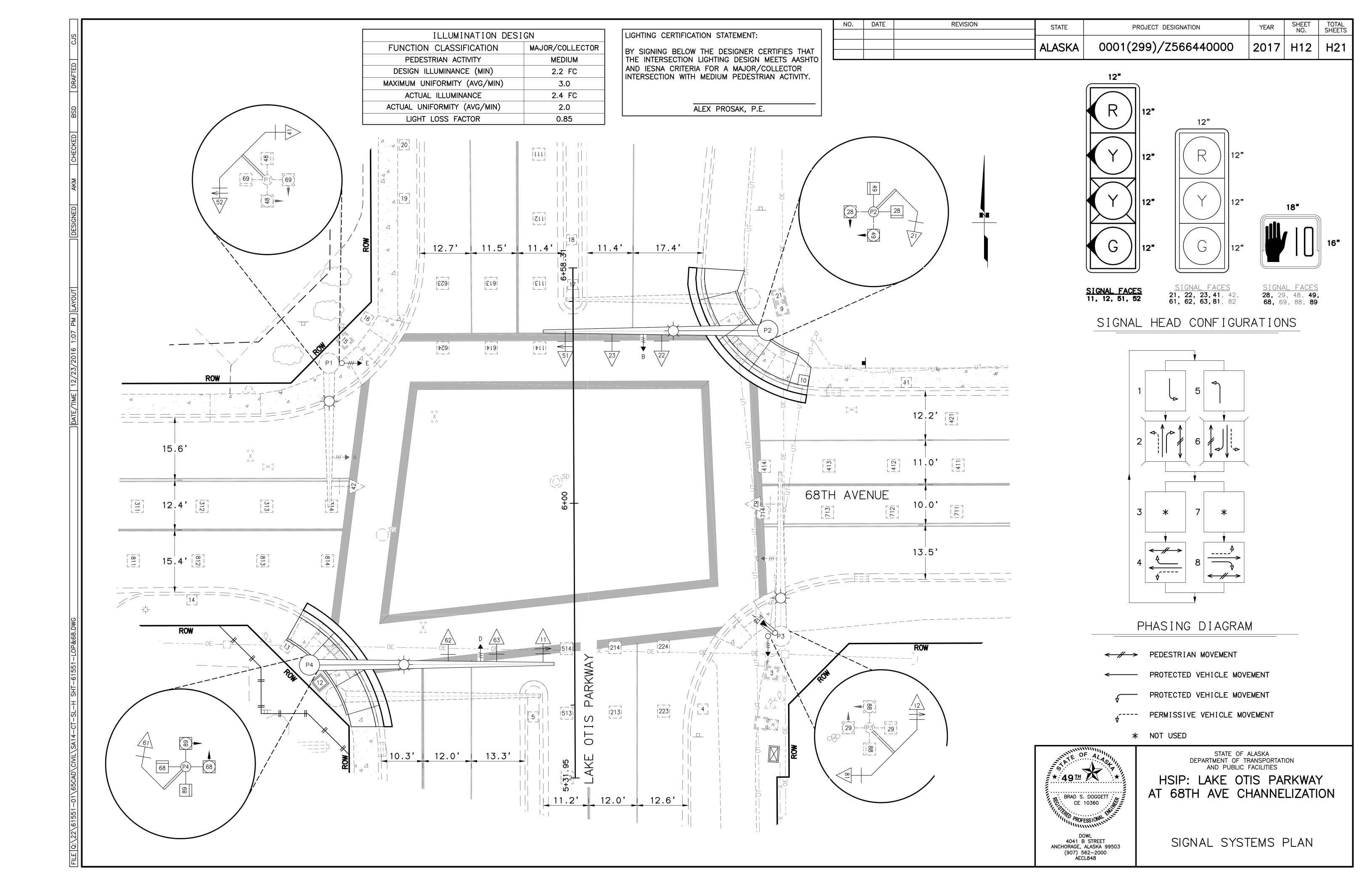


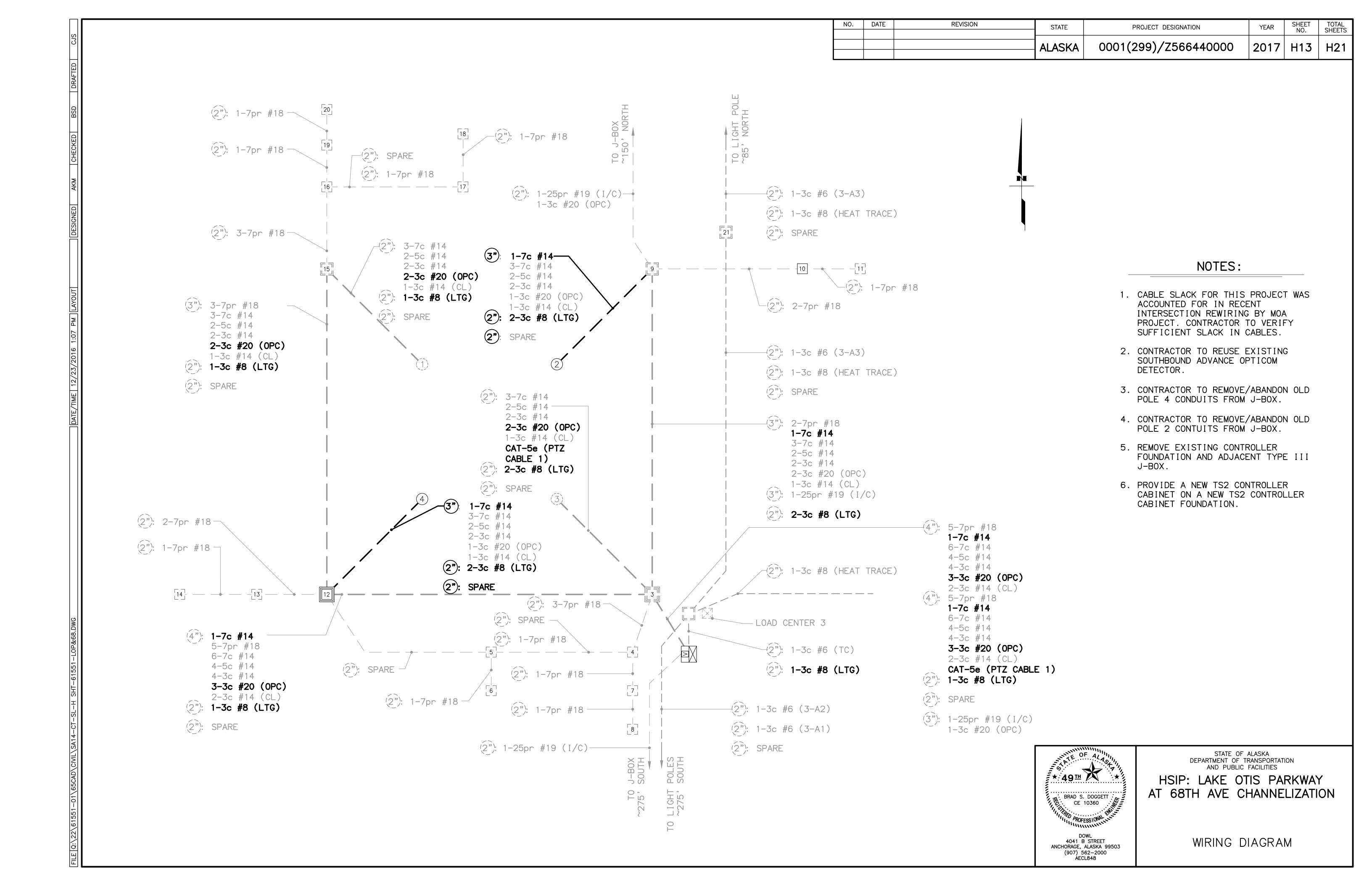




TOTAL SHEETS

2017 | H11 | H21





NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(299)/Z566440000	2017	H14	H21

	FOUNDATION SCHEDULE						
	STATION OFFSET REMARKS						
P1	6+35.01	60.53'LT	EXISTING POLE				
P2	6+42.61	48.22' RT	DRIVEN PILE FOUNDATION				
Р3	5+66.86	51.11' RT	EXISTING POLE				
P4	5+60.24	65.75'LT	42"Ø, 12' FOUNDATION DEPTH				
LC "3"	5+44.93	49.05' RT	EXISTING				
TC	5+37.64	49.23'RT	REPLACE EXISTING PER SHEET H4 DETAILS				

	J-BOX SCHEDULE								
J-B0X	STATION	OFFSET	REMARKS						
15	6+40.40	56.78' LT	EXISTING						
9	6+44.85	52.47' RT	EXISTING						
3	5+57.64	48.35' RT	EXISTING						
12	5+55.40	64.00' LT	REPLACE WITH TYPE III						
10	6+30.90	56.30' RT	REPLACE EXISTING						

OPTICOM DETECTOR SCHEDULE									
LOCATION	DETECTOR NO	PHASE CALL	FACING DIRECTION	DETECTOR MODEL NO					
P1 MAST ARM	Α	4	E	EXISTING					
P2 MAST ARM	В	2,5	S	721					
P3 MAST ARM	С	8	W	EXISTING					
P4 MAST ARM	D	1,6	N	721					
P1 SHAFT	E	4	E	721					
P3 SHAFT	F	2,5	S	721					

POLE SALVAGE SCHEDULE						
POLE	STATION	OFFSET				
2	6+50.49	43.88 RT				
4	5+52.39	59.17 LT				

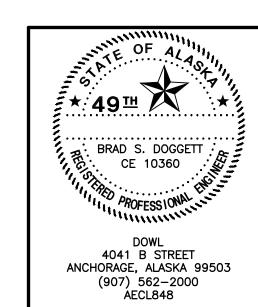
NOTES:

- 1. UNLESS OTHERWISE NOTED, ALL STATION AND OFFSETS ARE TO CENTER OF STRUCTURE OR OBJECT.
- 2. CONTRACTOR TO RETURN REMOVED ILLUMINATION FIXTURES AND MAST ARMS TO MOA POLE YARD AT 245 ORCA STREET.

LUMINAIRE SCHEDULE				
MANUFACTURER	CREE OR APPOVED EQUAL			
MODEL	LEDWAY OR APPROVED EQUAL			
WATTAGE	270			
LIGHT SOURCE	LED			
VOLTAGE	240			
INITIAL LUMENS	21,189			
BALLAST TYPE	MULTI-LEVEL DRIVER			
PE CONTROL	NONE			
COLOR TEMPERATURE	4,000 K			
IES DISTRIBUTION TYPE	M-C-3			
UL LISTED	YES			
IES FILE	STR-LWY-3M12-E-UL-700- 40K.IES OR APPROVED EQUAL			

OPTICOM DETECTOR SCHEDULE

- 1. AIM OPTICOM DETECTOR EYE TOWARD THE CENTER OF THE VEHICLE APPROACH AT APPROXIMATELY 1500 FEET FROM THE INTERSECTION.
- 2. OPTICOM DETECTORS SHALL HAVE DIRECT UNOBSTRUCTED LINE-OF-SIGHT TO APPROACHING VEHICLES. ADJUST ANGLE AS NECESSARY.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: LAKE OTIS PARKWAY AT 68TH AVE CHANNELIZATION

SIGNALIZATION STRUCTURE SCHEDULES

CJS			
DRAFTED			
BSD			
HECKED			
KM			
ED A	${\sf G}$		
DESIGN			
3 1:07 PM [LAYOUT]		OPTICOM E FACES EAS	
DATE/TIME 12/23/2016 1:07 PM LAYOUT		FACES EAS	īΤ
	Lake Otis Pkwy 42		
		41 © 3 48	
551-LOP&68.DWG			
2\61551-01\65CAD\CIVIL\SA14-CT-SL-H SHT-61551-LOP&68.DWG			
-01\65CA	EXISTING SIGNAL POLE NO. 1		
2\61551-	LOOKING WEST		

NOTES:

ALASKA

REVISION

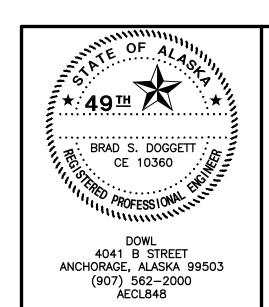
- 1. EXISTING POLE NO. 1 TO REMAIN.
- 2. REPLACE EXISTING LUMINAIRE. SEE LUMINAIRE SCHEDULE ON H14.

PROJECT DESIGNATION

0001(299)/Z566440000 | 2017 | H15 | H21

TOTAL SHEETS

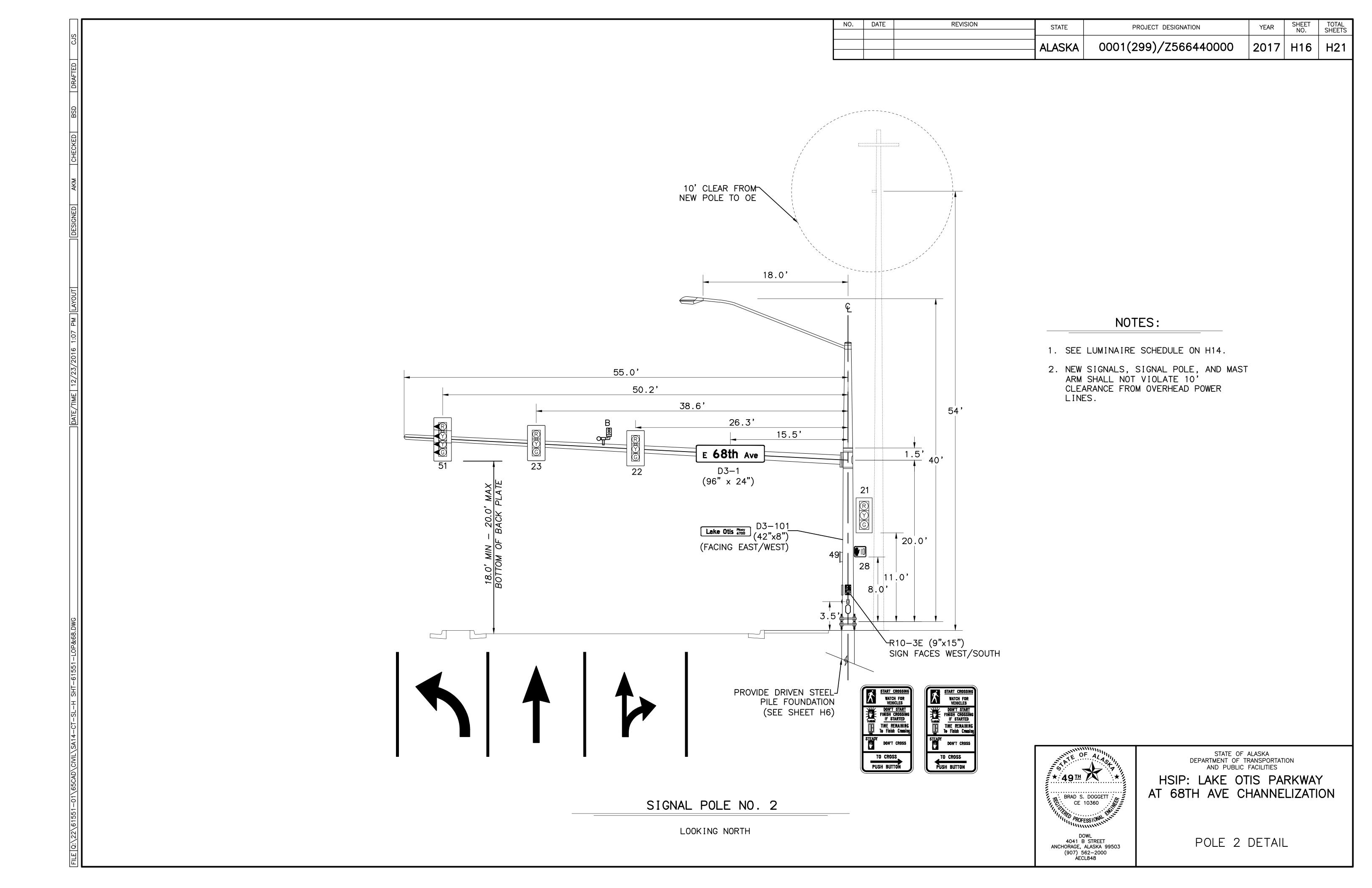
 OPTICOM E TO BE INSTALLED ON POLE #1 FACING EAST.

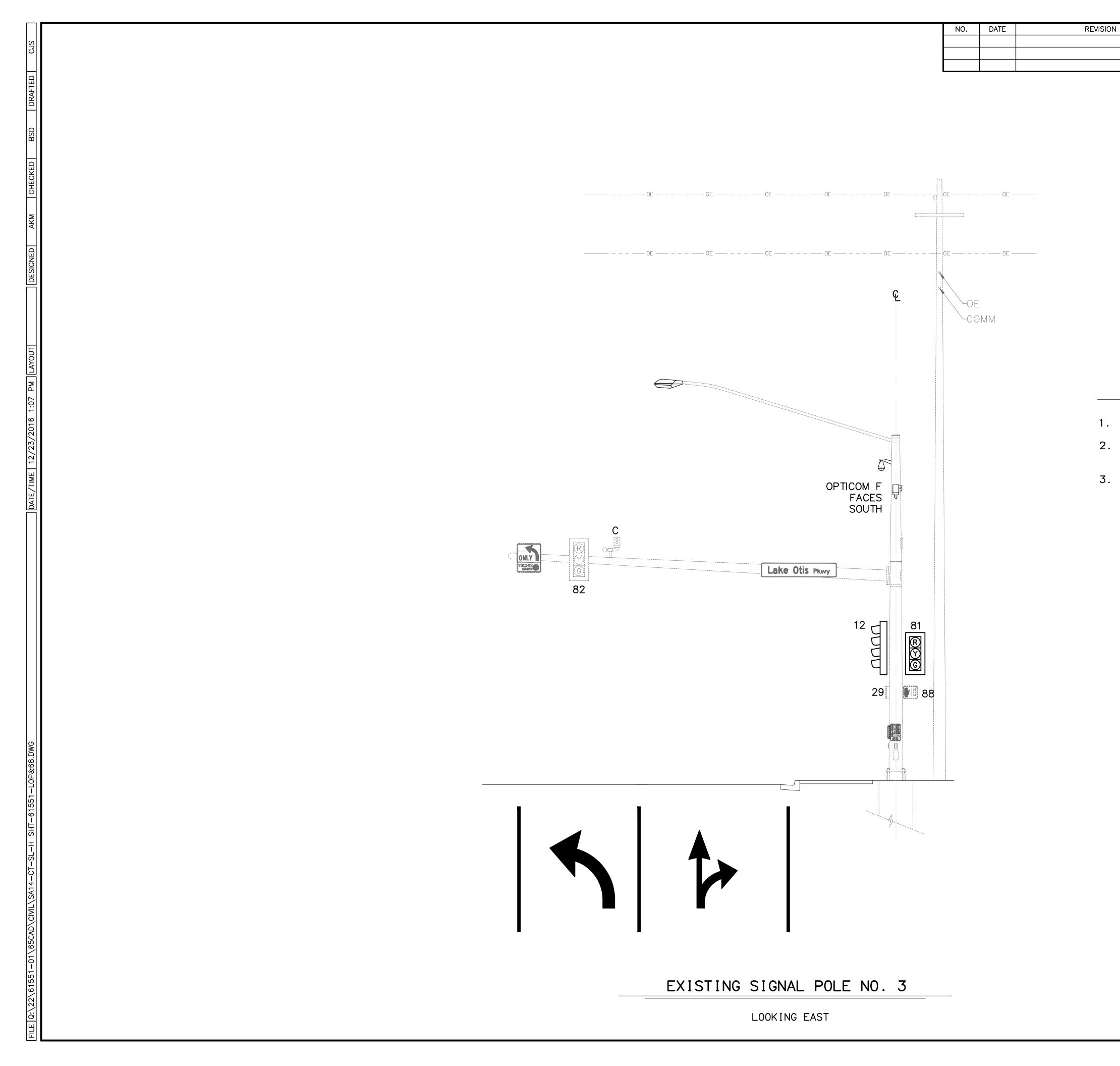


STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

HSIP: LAKE OTIS PARKWAY AT 68TH AVE CHANNELIZATION

POLE 1 DETAIL



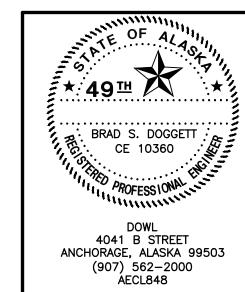


NOTES:

1. EXISTING POLE NO. 3 TO REMAIN.

ALASKA

- 2. REPLACE EXISTING LUMINAIRE. SEE LUMINAIRE SCHEDULE ON H14.
- 3. OPTICOM F TO BE INSTALLED ON WEST SIDE OF POLE #3 FACING SOUTH.



STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

TOTAL SHEETS

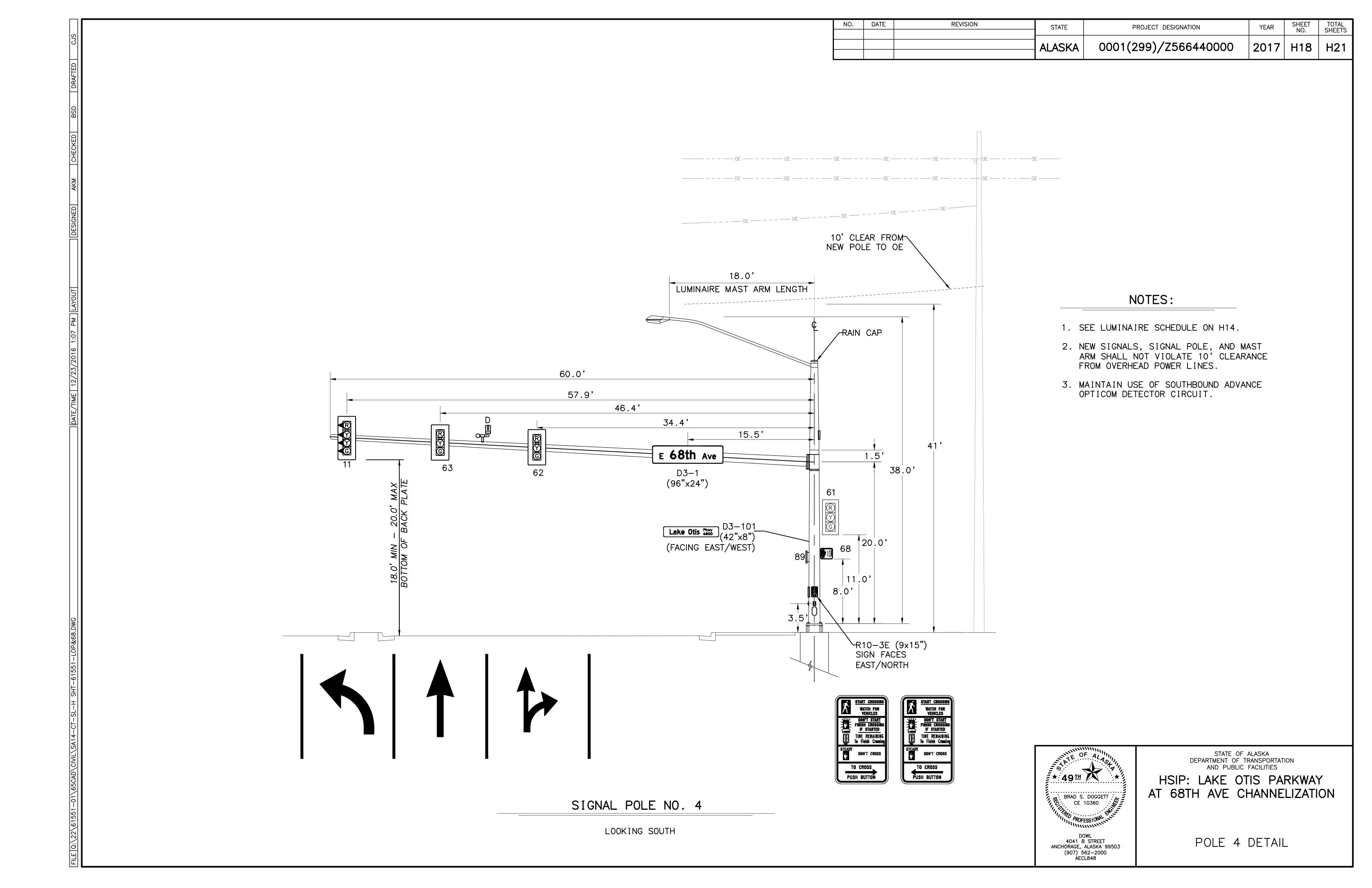
2017 H17 H21

PROJECT DESIGNATION

0001(299)/Z566440000

HSIP: LAKE OTIS PARKWAY AT 68TH AVE CHANNELIZATION

POLE 3 DETAIL



	BINET FEATURES
GENERAL	OPTIONS
TYPE	TS2-1
SIZE	NEMA SIZE 6
MATERIALS	0.125" NATURAL ALUMINUM
MODEL	WESTERN SYSTEMS NEMA TS2-1P
EXTENDER BASE	NONE
MOUNTING HARDWARE	INCLUDED
PAINT	YES - SEE SPECIAL PROVISIONS
SPECIAL	
LIFTING TABS	INCLUDED
COMPUTER SHELF	
	FULL WIDTH, 12"
AIR FILTER	FIBER MESH
MAIN DOOR LOCK	BEST
REAR DOOR	NONE
INCANDESCENT LAMP	100 WATT
MAIN	PANEL
MAIN PANEL POSITION	16-POSITION HORIZONTAL
RESISTOR LOCATION	LEFT SIDEWALL
FLASH TRANSFER RELAYS SOCKETS	8 INCLUDED
FLASHER SOCKETS	1 INCLUDED
R1 RELAY SOCKET	INCLUDED
POWER	PANEL
SURGE SUPPRESSION	SHP300-10
LINE FILTER (RADIO INTERFERENCE)	50A
CONTACTOR - SOLID STATE RELAY	NORMALLY OPEN, 50A
MAIN CIRCUIT BREAKER	40A
AUXILIARY CIRCUIT BREAKERS	20A
3 POSITION TERMINAL BLOCK FOR INCOMING	
POWER, #4-#8 U.S.G.	INCLUDED
16 POSITION NEUTRAL BUS BAR	INCLUDED
16 POSITION CHASSES GROUND BUS BAR	INCLUDED
POL I CE	PANEL
POLICE PANEL	INCLUDED
POLICE PANEL SWITCHES	SIGNALS ON/OFF, AUTO/FLASH
POLICE PANEL PUSHBUTTON ALARM	NONE
POLICE DOOR LOCK	BEST
POLICE PANEL MANUAL CORD	NONE
TOLICE TANKE MANOAL COND	INOINE
1	DV DANEI
AUXILIAF	RY PANEL
	AUTO/FLASH, STOP TIME, CONTROLLER
	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT
AUXILIARY PANEL SWITCHES	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS
AUXILIARY PANEL SWITCHES DETECTOR TEST SWITCHES	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON
AUXILIARY PANEL SWITCHES	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS
AUXILIARY PANEL SWITCHES DETECTOR TEST SWITCHES FORCE OFF SWITCHES	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON
AUXILIARY PANEL SWITCHES DETECTOR TEST SWITCHES FORCE OFF SWITCHES	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON TACTILE PUSHBUTTON TECTION
AUXILIARY PANEL SWITCHES DETECTOR TEST SWITCHES FORCE OFF SWITCHES RACK DE	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON TACTILE PUSHBUTTON TECTION PROVIDE FOUR (4) 16-CHANNEL DETECTOR
AUXILIARY PANEL SWITCHES DETECTOR TEST SWITCHES FORCE OFF SWITCHES	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON TACTILE PUSHBUTTON TECTION PROVIDE FOUR (4) 16-CHANNEL DETECTOR RACKS. TWO OF THE RACKS SHALL BE
AUXILIARY PANEL SWITCHES DETECTOR TEST SWITCHES FORCE OFF SWITCHES RACK DE	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON TACTILE PUSHBUTTON TECTION PROVIDE FOUR (4) 16-CHANNEL DETECTOR
AUXILIARY PANEL SWITCHES DETECTOR TEST SWITCHES FORCE OFF SWITCHES RACK DE DETECTOR RACKS	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON TACTILE PUSHBUTTON TECTION PROVIDE FOUR (4) 16-CHANNEL DETECTOR RACKS. TWO OF THE RACKS SHALL BE CONFIGURED WITH 2 SLOTS EACH FOR OPTICOM.
AUXILIARY PANEL SWITCHES DETECTOR TEST SWITCHES FORCE OFF SWITCHES RACK DE DETECTOR RACKS DETECTOR RACK POWER SUPPLY	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON TACTILE PUSHBUTTON TECTION PROVIDE FOUR (4) 16-CHANNEL DETECTOR RACKS. TWO OF THE RACKS SHALL BE CONFIGURED WITH 2 SLOTS EACH FOR OPTICOM. BIU FOR EACH RACK
AUXILIARY PANEL SWITCHES DETECTOR TEST SWITCHES FORCE OFF SWITCHES RACK DE DETECTOR RACKS	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON TACTILE PUSHBUTTON TECTION PROVIDE FOUR (4) 16-CHANNEL DETECTOR RACKS. TWO OF THE RACKS SHALL BE CONFIGURED WITH 2 SLOTS EACH FOR OPTICOM.
AUXILIARY PANEL SWITCHES DETECTOR TEST SWITCHES FORCE OFF SWITCHES RACK DE DETECTOR RACKS DETECTOR RACK POWER SUPPLY EVP REQUIREMENTS	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON TECTION PROVIDE FOUR (4) 16-CHANNEL DETECTOR RACKS. TWO OF THE RACKS SHALL BE CONFIGURED WITH 2 SLOTS EACH FOR OPTICOM. BIU FOR EACH RACK WIRE FOR GREEN SENSE MONITORING
AUXILIARY PANEL SWITCHES DETECTOR TEST SWITCHES FORCE OFF SWITCHES RACK DE DETECTOR RACKS DETECTOR RACK POWER SUPPLY EVP REQUIREMENTS ADDITIONAL	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON TECTION PROVIDE FOUR (4) 16-CHANNEL DETECTOR RACKS. TWO OF THE RACKS SHALL BE CONFIGURED WITH 2 SLOTS EACH FOR OPTICOM. BIU FOR EACH RACK WIRE FOR GREEN SENSE MONITORING L OPTIONS
AUXILIARY PANEL SWITCHES DETECTOR TEST SWITCHES FORCE OFF SWITCHES RACK DE DETECTOR RACKS DETECTOR RACK POWER SUPPLY EVP REQUIREMENTS	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON TECTION PROVIDE FOUR (4) 16-CHANNEL DETECTOR RACKS. TWO OF THE RACKS SHALL BE CONFIGURED WITH 2 SLOTS EACH FOR OPTICOM. BIU FOR EACH RACK WIRE FOR GREEN SENSE MONITORING
AUXILIARY PANEL SWITCHES DETECTOR TEST SWITCHES FORCE OFF SWITCHES RACK DE DETECTOR RACKS DETECTOR RACK POWER SUPPLY EVP REQUIREMENTS ADDITIONAL	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON TECTION PROVIDE FOUR (4) 16-CHANNEL DETECTOR RACKS. TWO OF THE RACKS SHALL BE CONFIGURED WITH 2 SLOTS EACH FOR OPTICOM. BIU FOR EACH RACK WIRE FOR GREEN SENSE MONITORING L OPTIONS
AUXILIARY PANEL SWITCHES DETECTOR TEST SWITCHES FORCE OFF SWITCHES RACK DE DETECTOR RACKS DETECTOR RACK POWER SUPPLY EVP REQUIREMENTS ADDITIONA MASTER CABINET	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON TECTION PROVIDE FOUR (4) 16-CHANNEL DETECTOR RACKS. TWO OF THE RACKS SHALL BE CONFIGURED WITH 2 SLOTS EACH FOR OPTICOM. BIU FOR EACH RACK WIRE FOR GREEN SENSE MONITORING NO
AUXILIARY PANEL SWITCHES DETECTOR TEST SWITCHES FORCE OFF SWITCHES RACK DE DETECTOR RACKS DETECTOR RACK POWER SUPPLY EVP REQUIREMENTS ADDITIONA MASTER CABINET WIRE CABINET FOR UPS RAILROAD PREEMPTION	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON TECTION PROVIDE FOUR (4) 16-CHANNEL DETECTOR RACKS. TWO OF THE RACKS SHALL BE CONFIGURED WITH 2 SLOTS EACH FOR OPTICOM. BIU FOR EACH RACK WIRE FOR GREEN SENSE MONITORING NO NO
AUXILIARY PANEL SWITCHES DETECTOR TEST SWITCHES FORCE OFF SWITCHES RACK DE DETECTOR RACKS DETECTOR RACK POWER SUPPLY EVP REQUIREMENTS ADDITIONA MASTER CABINET WIRE CABINET FOR UPS RAILROAD PREEMPTION RAILROAD PREEMPTION/STAND ALONE PANEL	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON TECTION PROVIDE FOUR (4) 16-CHANNEL DETECTOR RACKS. TWO OF THE RACKS SHALL BE CONFIGURED WITH 2 SLOTS EACH FOR OPTICOM. BIU FOR EACH RACK WIRE FOR GREEN SENSE MONITORING NO NO INCLUDED NO
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DETECTOR TEST SWITCHES FORCE OFF SWITCHES RACK DE DETECTOR RACKS DETECTOR RACKS DETECTOR RACK POWER SUPPLY EVP REQUIREMENTS ADDITIONA MASTER CABINET WIRE CABINET FOR UPS RAILROAD PREEMPTION RAILROAD PREEMPTION/STAND ALONE PANEL RED JUMPERS FOR ALL UNUSED PAHSES LOAD RESISTORS HEATER RECEPTACLE (SINGLE) DUPLEX GFI OUTLET (NON-FILTERED) DUPLEX CONVENIENCE OUTLET - FILTERED ADDITIONAL NEUTRAL BUS BARS (32 POSITIONS) ADDITIONAL CHASSIS GROUND BUS BAR (32 POSITIONS) STANDARD WIRING DIAGRAMS (33x22) ELECTRONIC WIRING DIAGRAM (AUTOCAD FORMAT) 48-HOURS FACTORY BURN-IN CONTINUOUS WELD GTT OPTICOM 768 AUXILIARY INTERFACE PAN GTT OPTICOM 757 HARNESS GENERATOR BYPASS COMPARTMENT - WITH	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT HEATER BYPASS TACTILE PUSHBUTTON TACTILE PUSHBUTTON TECTION PROVIDE FOUR (4) 16-CHANNEL DETECTOR RACKS. TWO OF THE RACKS SHALL BE CONFIGURED WITH 2 SLOTS EACH FOR OPTICOM. BIU FOR EACH RACK WIRE FOR GREEN SENSE MONITORING L OPTIONS NO INCLUDED NO INCLUDED INCLUDED - RIGHT SIDE OF CABINET INCLUDED - RIGHT SIDE OF CABINET INCLUDED - LEFT SIDE OF CABINET LEFT SIDE OF CABINET LEFT SIDE OF CABINET 1 CABINET, 1 SIGNAL TECH, 1 TRAFFIC PROVIDE ON COMPACT DISC INCLUDED INCLUDED INCLUDED L INCLUDED L INCLUDED - WIRED INTO CABINET INCLUDED - WIRED INTO CABINET
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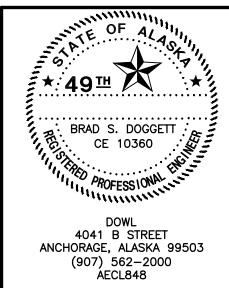
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0001(299)/Z566440000	2017	H19	H21

	CONTROLLER ASSEMBLY EQUIPMENT										
FULLY COMPL V02.0	Y ALL LABOR, EQUIPMENT AND MATERIALS TO PROVIDE A FUNCTIONING TRAFFIC SIGNAL CONTROLLER ASSEMBLY IANT WITH THE NEMA STANDARD PUBLICATION NO. TS2-2003 6 AND SPECIAL "SPECIALS" PROVISIONS OF THIS CONTRACT DING BUT NOT LIMITED TO;										
QTY	CONTROLLER/MMU EQUIPMENT										
1	ECONOLITE COBALT OR APPROVED EQUAL CONTROLLER										
1	CONTROLLER TELEMETRY MODULE TCM-FSK-9										
1	CONTROLLER ETHERNET PORT										
1	CONTROLLER DATA KEY										
1	EDI MMU2-16LEIP OR APPROVED EQUAL										
1	MMU2 CARD										
	CABINET EQUIPMENT										
16	PDC SSS-87-I/O LOAD SWITCHES										
16	EDI ORACLE4E DETECTOR AMPLIFIERS										
8	DETROL CONTROLS 295 FLASH TRANSFER RELAYS										
2	EDI BIU700 TERMINAL AND FACILITIES BIUS										
4	EDI BIU700 DETECTION BIU'S										
1	EDI PS250 TS2 CABINET POWER SUPPLY										
1	PDC SSF8 FLASHER										
1	R1 RELAY										
1	600/900/1500W SELECTABLE THERMOSTATICALLY CONTROLLED CABINET HEATER										
1	RESEALABLE PRINT POUCH OF SUFFICIENT SIZE TO ACCOMMODATE CABINET PRINTS										
1	COMPLETE SET OF MANUALS FOR CONTROLLER, MMU2 AND VEHICLE DETECTOR AMPLIFIERS										

	COMMUNICATION EQUIPMENT SCHEDULE											
QTY	ETHERNET EQUIPMENT											
1	ACTELIS ML688 WITH FOUR 10/100TX PORTS AND ONE OPTIONAL 1000BASE SFP PORT											
1	AC POWER ADAPTER 506R00005											
4	3 FOOT CAT6 PATCH CABLE											
1	SFP OPTICS 100base FX SM 1310nm 15km LC MODULE 506R00032											
1	CARRIER-CLASS ELEMENT MANAGEMENT SYSTEM											
2	QUAD DSL CABLES 504R20110											
1	WALL MOUNTING KIT 510R21080											
	ON-STREET MASTER CONTROLLER											
0	MASTER CONTROLLER, ECONOLITE ASC/2M-1000											
0	56K INDUSTRIAL MODEM & PHONE DROP (INCLUDES TELCO ACTIVATION)											
0	ECONOLITE GPS-100 GPS TIME REFERENCE OR APPROVED EQUAL											
	UNINTERRUPTIBLE POWER SUPPLY											
0	ECONOLITE CUSTOM CABINET FOR UPS, MOUNT TC CABINET											
0	ECONOLITE DBL 2100 OR APPROVED EQUAL											
0	ECONOLITE HOT SWAP BYPASS SWITCH OR APPROVED EQUAL											
0	ECONOLITE FAIL-SAFE BYPASS SWITCH OR APPROVED EQUAL											
	OTHER EQUIPMENT											
0	ATSI PCMT-2600 MMU TESTER W/ MMU & CMU CABLES											
0	FULLY FUNCTIONING TRAFFIC SIGNAL CONTROLLER, MASTER CONTROLLER AND CABINET											
0	INDUCTIVE LOOP TEST KITS											
0	LOOP FINDERS											
0	BIU TESTERS											
0	FRAME GRABBER											
0	MULTI-SWITCH TESTER											
0	BIU SLOT TESTER											
0	CARD RACK SLOT TESTER											
0	DETECTOR TESTER											
0	MCCAIN CID II											
0	RADIO SITE SURVEY LOCATIONS											
0	INTX DIAGRAM LOCATIONS											

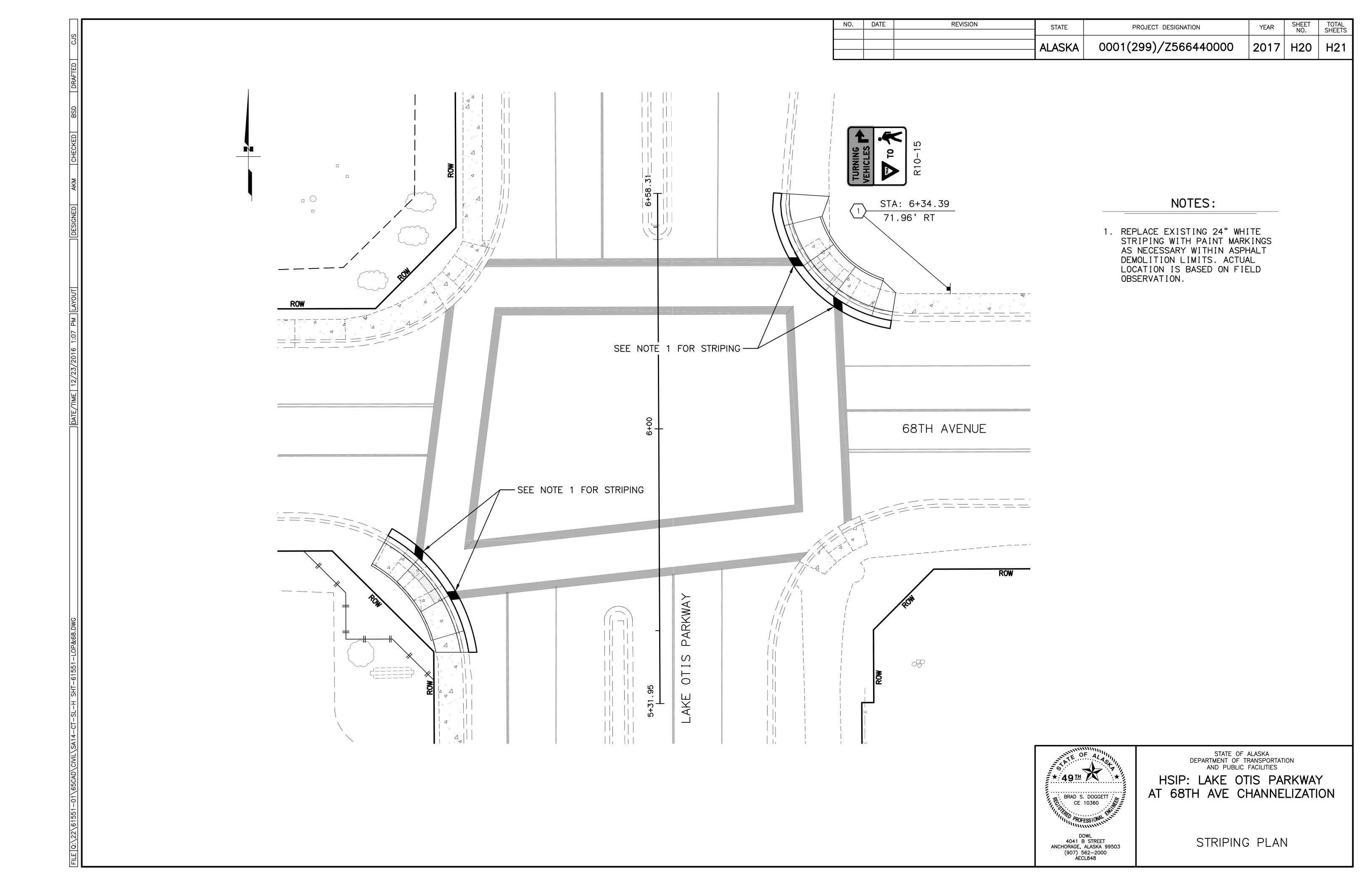
QTY	EVP EQUIPMENT SCHEDULE
0	GTT OPTICOM MODEL 711 DETECTOR
4	GTT OPTICOM MODEL 721 DETECTOR
0	GTT OPTICOM MODEL 722 DETECTOR
1	GTT OPTICOM MODEL 764 PHASE SELECTOR (PROVIDE WITH CONT. CAB.)
0	OPTICOM MODEL 792H EMITTERS W/792 SWITCH

QTY	VIDEO DETECTION EQUIPMENT SCHEDULE
0	ECONOLITE AUTOSCOPE TERRA ACCESS POINT (TAP)
0	ECONOLITE AUTOSCOPE TERRA INTERFACE PANEL (TIP)
0	TAP STAND ALONE ENCLOSURE
0	ECONOLITE AUTOSCOPE ENCORE CAMERA



HSIP: LAKE OTIS PARKWAY AT 68TH AVE CHANNELIZATION

CABINET EQUIPMENT



NO.	DATE	DATE REVISION		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEET:
			ALASKA	0001(299)/Z566440000	2017	H21	H21

	POST NO.			CL REF	TYPE		SIZE (IN)				POSTS	THICKNESS (in) FRAMED		REMARKS				
SHEET		STATION	CL OFFSET			LEGEND			AREA (FT2)	SIGN FACES	NO., SIZE, &							
							WIDTH	HEIGHT			NO., SIZE, & TYPE	YES	NO					
H20	1	6+34.39	71.96'	RT	R10-15	TURNING VEHICLES TO	30	30	6.25	E	1-2.5" X 2.5" PT		X					
					D3-1	E 68th Ave	96	24	16	S	SIGNAL POLE NO. 2	X						
	2				D3-101	Lake Otis Pkwy 6700	42	8	2.33	E/W		X		BLOCK NO. 670				
H16		6+42.61	48.22'	RT	R10-3E	WORLD COMMENT WORLD TO THE COMMENT WITH CO	9	15	. 94	W			X					
					R10-3E	As Comme As Com	9	15	. 94	S			X					
		5+60.24							D3-1	E 68th Ave	96	24	16	N		X		
LI10	7		65.75°		D3-101	Lake Otis Pkwy 6800	42	8	2.33	E/W	SIGNAL POLE	X		BLOCK NO. 680				
H18	3		65.75'	LT -	R10-3E	THE COMMENT THE C	9	15	. 94	E	SIGNAL POLE NO. 4		X					
					R10-3E	WANT CHINESE WANT THE THE THE THE THE THE THE THE THE TH	9	15	. 94	N			X					



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HSIP: LAKE OTIS PARKWAY
AT 68TH AVE CHANNELIZATION

DOWL
4041 B STREET
ANCHORAGE, ALASKA 99503
(907) 562-2000
AECL848

SIGN SUMMARY TABLE