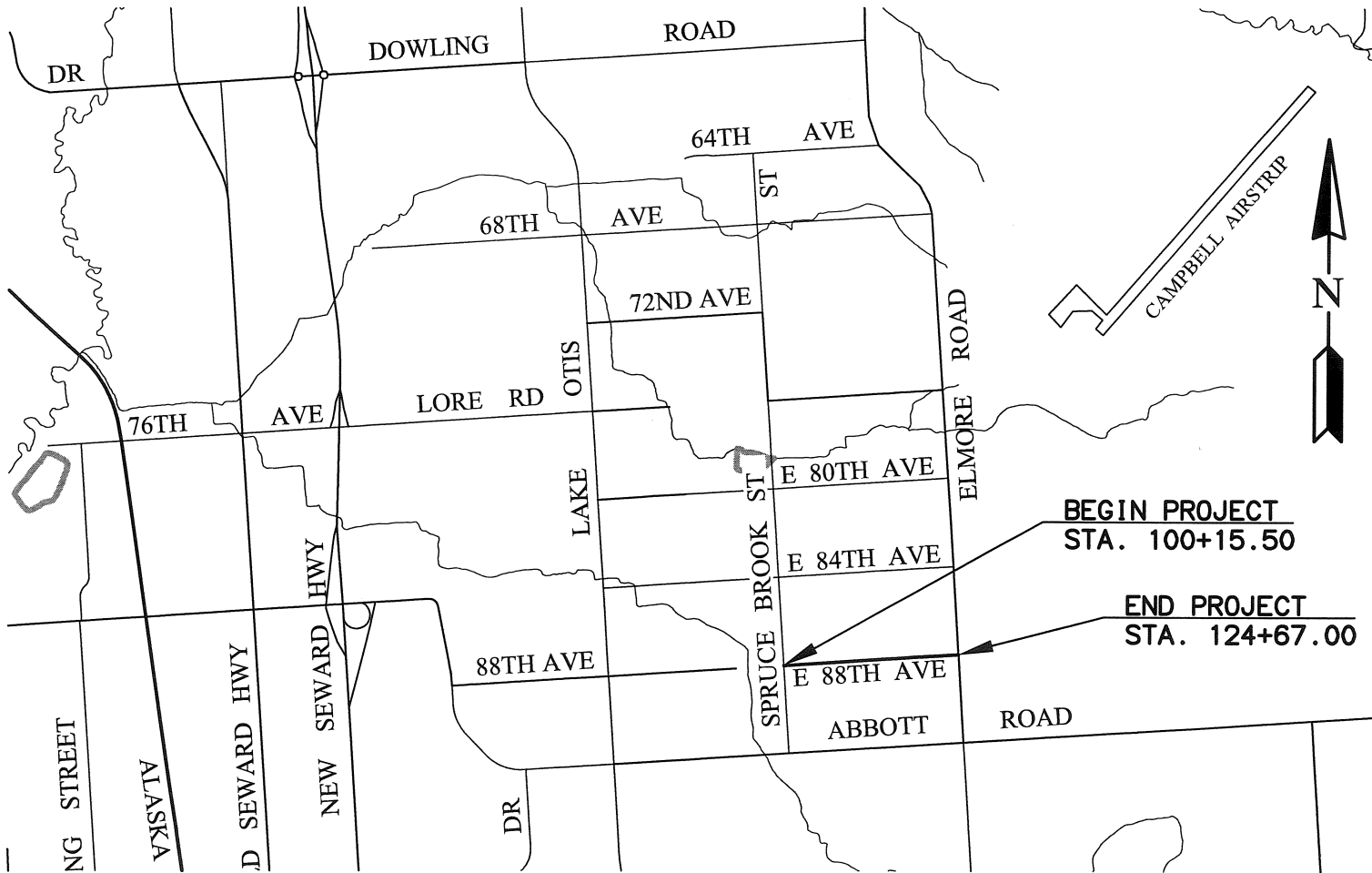


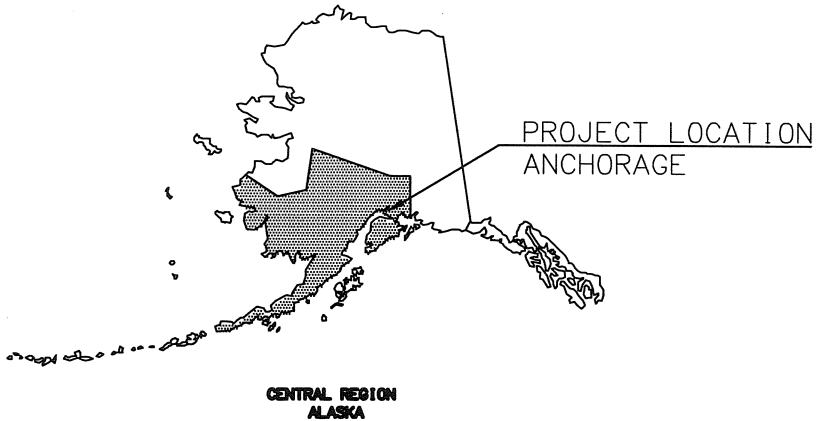
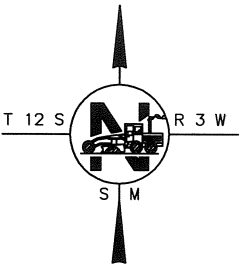
DRAWING LOCATION
W:\Projects\88th Avenue - Brook St to Elmore Rd_54601\Ch3D12\Planee\54601_A01_Title.dwg
DATE TIME
7/11/2013, 10:00 AM
XREF'S
N/A
SCALE
1" = 1'
LAYOUT
A1-TITLE
DESIGNED BY
CHECKED BY
DRAFTED BY
DWI

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

PROPOSED HIGHWAY PROJECT
**88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)**
PROJECT NO. 54601
DRAINAGE, PAVING, SIGNING, AND STRIPING



REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	A1	XX
ROUTE: SEE PROJECT SUMMARY AND DESIGN DESIGNATION							



DESIGN DESIGNATIONS							
	ROUTE	AADT 2011	AADT 2034	V (MPH)	DHV (%)	T (%)	D (%)
E. 88TH AVENUE	133696	1100	1621	30	10.5	5.15	50/50

PROJECT SUMMARY				
ROADWAY	WIDTH (FT)	LENGTH (MI)	BEGIN	END
E. 88TH AVENUE	26	0.47	JCT. WITH SPRUCE BROOK ST	JCT. WITH ELMORE RD

Plans-In-Hand Review
CENTRAL REGION
HIGHWAY DESIGN
Date: 7-16-2013

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES

APPROVED:

REGIONAL PRE-CONSTRUCTION ENGINEER DATE

CONCUR:

DIRECTOR, DESIGN & CONSTRUCTION DATE

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:

CONSTRUCTION PROJECT MANAGER DATE

DESIGNED BY DLP
CHECKED BY DLP
DRAFTED BY DLP

XREFS
N/A
N/A

SCALE
N/A

LAYOUT
LAYOUT

DATE TIME
7/12/2013 3:24 PM

DRAWING LOCATION
W:\Projects\88th Avenue - Brook St to Elmore Rd\54601\Civil\3D12\Plan\54601_A02_Schematic.dwg

GENERAL NOTES:

- ALL WORK WILL BE CONTAINED WITHIN THE RIGHT-OF-WAY, UNLESS OTHERWISE NOTED.
- NO EXCESS MATERIAL SHALL BE DISPOSED OF WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY CALLED FOR IN THE PLANS OR DIRECTED BY THE ENGINEER.
- ALL PAVEMENT CUTS SHALL BE MADE WITH A SAW OR ALTERNATIVE METHOD APPROVED BY THE ENGINEER.
- MATCH EXISTING SUPERELEVATION AND TRANSITIONS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- ADJUST MANHOLES, VALVE BOXES, AND SURVEY MONUMENT CASES PRIOR TO FINAL PAVING LIFT. ADJUSTMENTS WILL NOT BE ALLOWED AFTER FINAL PAVING LIFT.
- PLACE SOD IN ANY AREAS WITHIN THE RIGHT OF WAY DISTURBED BY CONSTRUCTION, AND AS DIRECTED BY THE ENGINEER. REMOVE, STOCKPILE, AND REUSE EXISTING SOD WHEN POSSIBLE.
- ALL MANHOLES AND INLETS HAVE AN 18" MINIMUM SUMP DEPTH. SEE DETAIL D-26.02.
- THE FOLLOWING ACRONYMS ARE USED ON THE STRUCTURE SUMMARIES LOCATED ON THE F SHEETS.
C.I. = CURB INLET (STD. DRAWING D22.01)
F.I. = FIELD INLET (STD. DRAWING D22.01)
M.H. = MANHOLE (STD. DRAWING D22.01)
H.C.I. = HIGH CAPACITY INLET

THE FOLLOWING REGIONAL DRAWINGS
APPLY TO THIS PROJECT:

CR-T-01.00

THE FOLLOWING STANDARD DRAWINGS
APPLY TO THIS PROJECT:

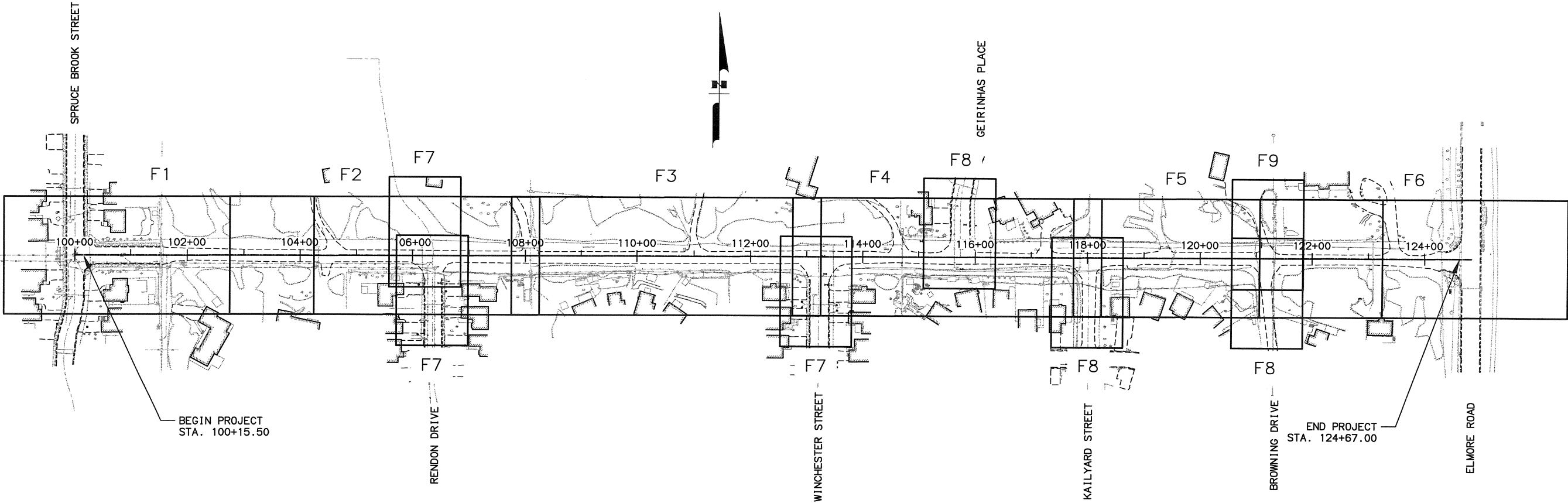
C-03.10, C-04.12, C-05.20
D-01.02, D-04.21, D-06.10, D-20.03, D-22.01, D-23.01,
D-24.00, D-25.00, D-26.02, D-35.00, D-36.00
*I-20.14, I-21.02, I-22.02
L-30.10
M-20.13, M-23.12
S-00.11, S-01.00, S-05.01, S-20.10, S-30.03
T-21.03, T-22.03, T-23.00

* AS MODIFIED HEREIN

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	A2	A4

INDEX	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	INDEX, GENERAL NOTES & PLAN SCHEMATIC
A3	LEGEND SHEET
A4	SURVEY CONTROL SHEETS
B1	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1 - D6	SUMMARY SHEETS
E1 - E5	DETAIL SHEETS
F1 - F9	PLAN AND PROFILE SHEETS
H1 - H5	SIGNING AND STRIPING SHEETS
L1	LANDSCAPING SHEET

7-16-2013



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
GENERAL NOTES

DESIGNED BY DLP
DRAWN BY LWH/DLP
XREFS
N/A
SCALE
N/A
LAYOUT
A3
DATE
TIME
7/3/2013 8:35 AM
DRAWING LOCATION
W:\Projects\88th Avenue - Brook St to Elmore Rd_54601\Civil\3D12\Plan\set\54601_A03_Legend_V11.dwg

UTILITIES

PIPELINES:

STORM DRAIN STRUCTURE AND
PIPE NUMBERS,
APPLICABLE IF SHOWN

STORM DRAIN

MANHOLE STORM DRAIN

CURB INLET CATCH BASIN

FIELD INLET CATCH BASIN

PIPE CULVERT w/ END SECTION

CLEANOUT

SANITARY SEWER

MANHOLE SANITARY SEWER

SEPTIC VENTS

WATER

FIRE HYDRANT

WELL

VALVE OR RISER

NATURAL GAS

OIL OR GASOLINE PIPELINE

ELECTRIC
(OVERHEAD)
(DIRECT BURY)
(OVERHEAD)

UTILITY POLE

UTILITY POLE WITH LUMINAIRE

GUY POLE

GUY WIRE ANCHOR

TRANSMISSION TOWER [WOOD]

TRANSMISSION TOWER [STEEL]

ELECTRICAL PEDESTAL

ELECTRICAL TRANSFORMER

ELECTRIC METER

ELECTRICAL OUTLET

ELECTRIC MANHOLE

TELEPHONE
(OVERHEAD)
(DIRECT BURY)
(DIRECT BURY)

TELEPHONE PEDESTAL

TELEPHONE MANHOLE

FIBER OPTIC

FIBER OPTIC MANHOLE

CABLE TV
(OVERHEAD)
(DIRECT BURY)

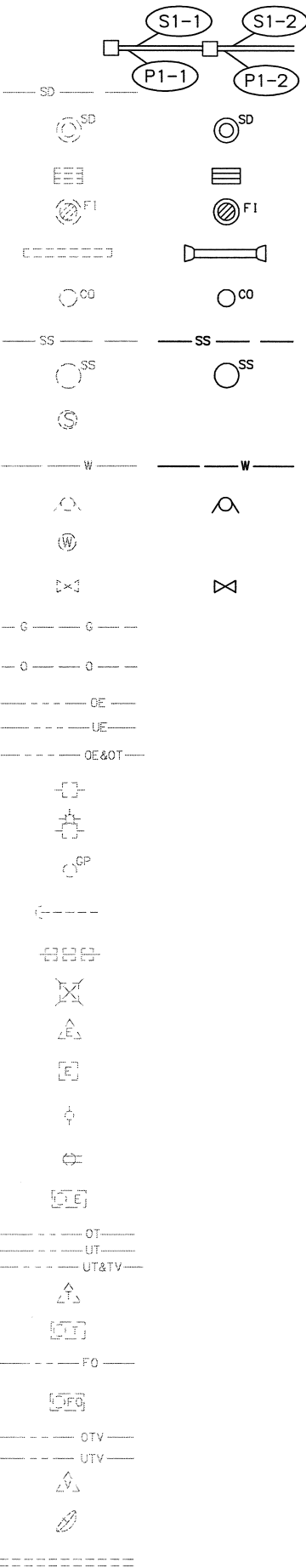
CABLE T.V. PEDESTAL

SATELLITE DISH

U.G. DUCT (E, T, FO)

EXISTING

PROPOSED



UTILITIES

EXISTING

PROPOSED

ELECTROLIER

HIGHTOWER

SIGNAL POLE WITH MAST

PEDESTRIAN PUSH BUTTON

RURAL BEACON

SCHOOL ZONE BEACON

RIGHT OF WAY

PRIMARY CENTERLINE MONUMENT

SECONDARY CENTERLINE MONUMENT

PROJECT RIGHT-OF-WAY LINES

CONTROLLED ACCESS LINE

TEMPORARY CONSTRUCTION
EASEMENT/PERMIT

PROJECT CENTERLINE

RAILROAD CENTERLINE

EXISTING TOPOGRAPHY

CONIFER TREE OR TREES

DECIDUOUS TREE OR TREES

SHRUB OR SHRUBS

WETLANDS

CREEK

RIVER

LAKE / POND

DRAINAGE FLOW

CONTOURS - MAJOR

CONTOURS - MINOR

MISCELLANEOUS

BUILDING

TANKS
ABOVE GROUND
UNDERGROUND

PRIVATE SIGN

POST/BOLLARDS

MAILBOX

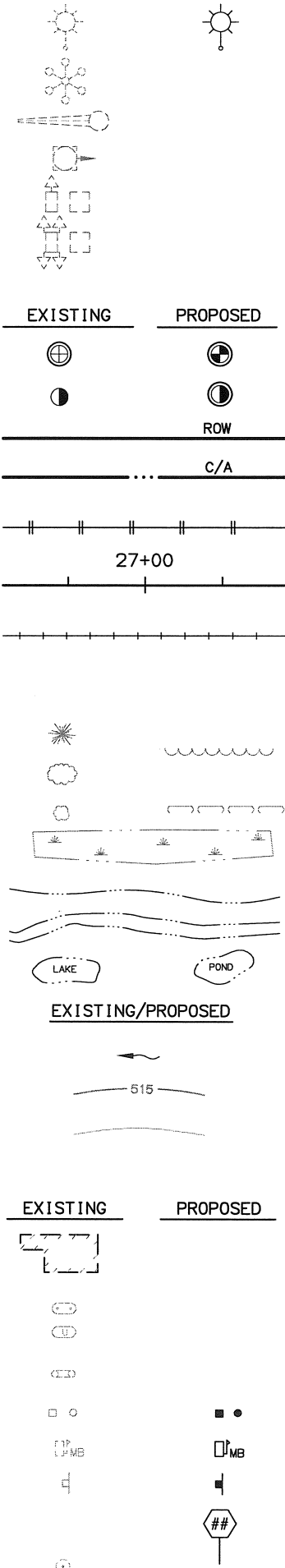
TRAFFIC SIGN

TRAFFIC SIGN POST #

VENT

EXISTING

PROPOSED



ROADWAY

EXISTING

PROPOSED

ROADWAY OBLITERATION

LIMIT OF CUT SLOPE

LIMIT OF FILL SLOPE

EDGE OF PAVEMENT

CONCRETE CURB

CONCRETE CURB & GUTTER

CONCRETE CURB CUT

SIDEWALK

CURB RAMPS

PARALLEL CURB RAMP

PERPENDICULAR CURB RAMP

MID-BLOCK CURB RAMP

UNIDIRECTIONAL CURB RAMP

DETECTABLE WARNING TILES

DRIVEWAY APPROACH

GRAVEL EDGE

PATH / TRAIL

BRIDGE

TUNNEL

NOISE BARRIER

FENCE

RETAINING WALL

HEAD & WINGWALLS

GUARDRAIL

END SECTION

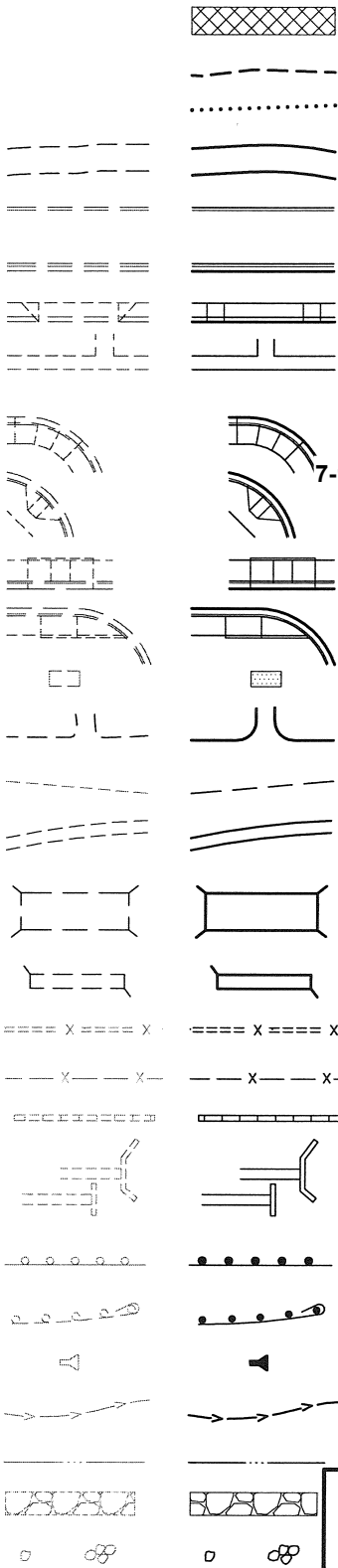
PARALLEL GUARDRAIL SECTION

SPECIAL DITCH

BOTTOM OF DITCH

RIPRAP

BOULDER OR BOULDERS



MISCELLANEOUS

EXISTING

PROPOSED

ELECTROLIER

NGAS VALVE OR RISER



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)

LEGEND SHEET

DRAWING LOCATION
W:\Projects\88th Avenue - Brook St to Elmore Rd_54601\Civ3D12\PlanSet\54601_A04_Survey Contrl.dwg

DATE
7/3/2013 1:41 PM

TIME
1:41 PM

LAYOUT
LAYOUT1

SCALE
N/A

XREFS
N/A

DESIGNED BY
DLP

CHECKED BY
DLP

DRAFTED BY
DLP

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	A4	A4

7-16-2013

RESERVED FOR SURVEY CONTROL SHEET



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

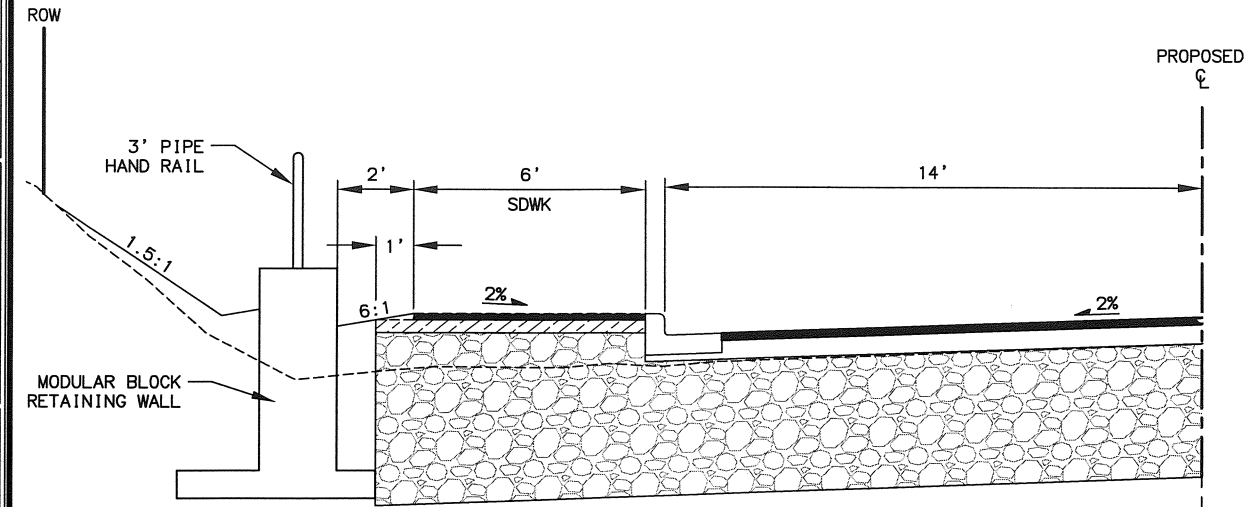
88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)

SURVEY CONTROL SHEET

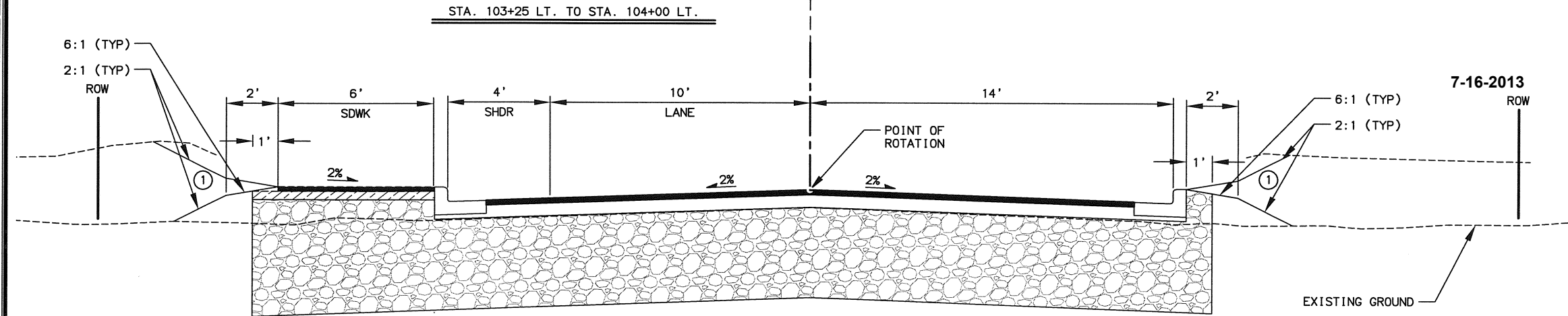
DESIGNED BY: DLP
CHECKED BY: MF
DRAFTED BY: N/A
XREFS: N/A
SCALE: N/A
LAYOUT: LAYOUT
DATE: 7/12/2013 3:15 PM
DRAWING LOCATION: W:\Projects\88th Avenue - Brook St to Elmore Rd\54601\Civil\3D12\Plan\54601_B01_Typical.s.dwg

REVISIONS		
NO.	DATE	DESCRIPTION

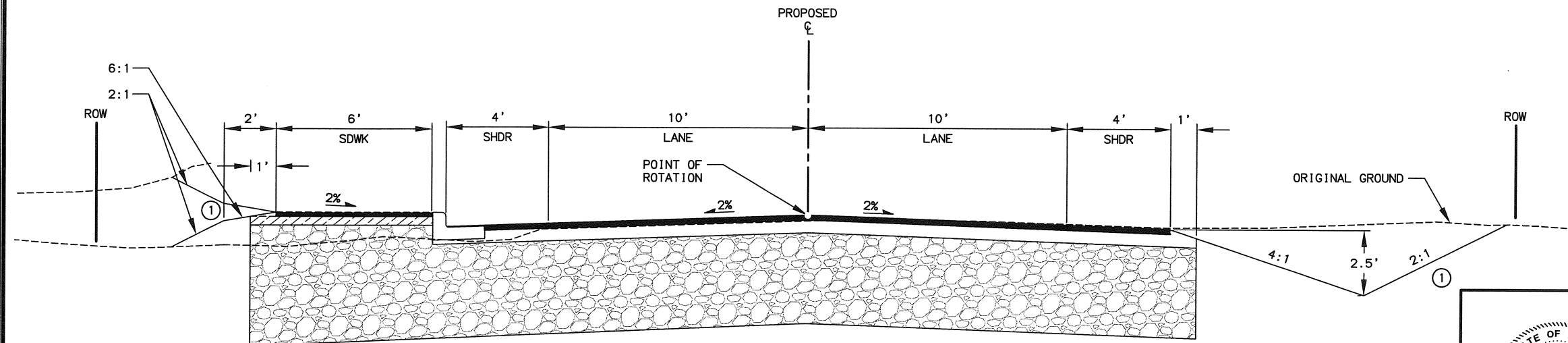
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	PROJECT NO. 54601	2013	B1	B1



SLOPE EXCEPTION TABLE					
STATION TO STATION	OFFSET	SLOPE			REMARKS
		CUT	LT. FILL	RT. FILL	
101+00 TO 102+00	LT./RT.				
103+00 TO 103+50	LT.				
103+25 TO 104+25	RT.				
103+50 TO 104+00	LT.	1.5:1			
104+00 TO 106+75	LT.				
107+00 TO 113+25	LT.				
107+25 TO 108+00	LT.	1.5:1			
108+25 TO 113+25	RT.				
120+25 TO 121+25	RT.	1.5:1			

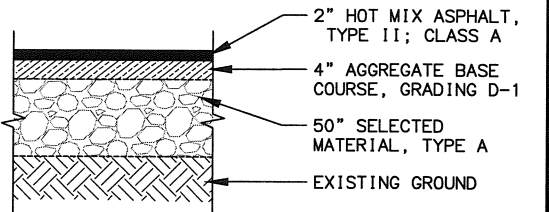


88TH AVENUE
STA. 100+00 TO STA. 113+00

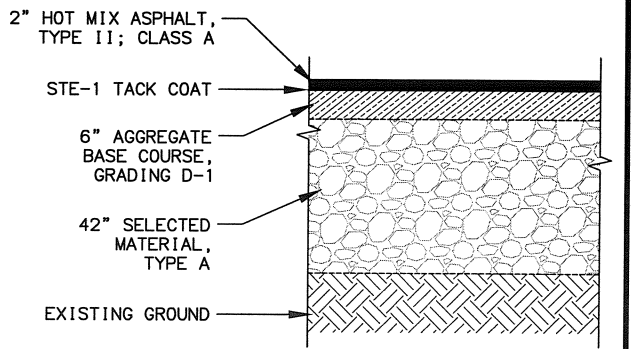


88TH AVENUE
STA. 113+00 TO STA. 124+67

① SEE SLOPE EXCEPTION TABLE



SIDEWALK STRUCTURAL SECTION



PAVEMENT STRUCTURAL SECTION



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)**

TYPICAL SECTIONS

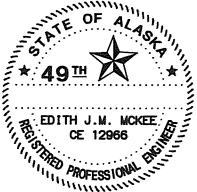
DESIGNED BY DLP
CHECKED BY QWH/DLP
SCALE N/A
LAYOUT C1
DATE TIME 7/12/2013 3:04 PM
DRAWING LOCATION W:\Projects\88th Avenue - Brook St to Elmore Rd_54601\Civil\3D12\Planset\54601_C01_Est of Q.dwg

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
201(6)	SELECTIVE TREE REMOVAL	EACH	
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	ALL REQ'D
202(2)	REMOVAL OF PAVEMENT	S.Y.	7,750
202(3)	REMOVAL OF SIDEWALK	S.Y.	170
202(4)	REMOVAL OF CULVERT PIPE	L.F.	343
202(6)	REMOVAL OF MANHOLE	EACH	2
202(9)	REMOVAL OF CURB AND GUTTER	L.F.	420
202(10)	SINGLE MAIL BOX INSTALLATION	EACH	7
202(12)	DOUBLE MAIL BOX INSTALLATION	EACH	2
202(13)	REMOVAL OF FENCE	L.F.	676
203(3)	UNCLASSIFIED EXCAVATION	C.Y.	13,500
203(6A)	BORROW, TYPE A	TON	29,900
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	3,750
401(1A)	HOT MIX ASPHALT, TYPE II; CLASS A	TON	1,050
401(2)	ASPHALT CEMENT, GRADE PG 58-34	TON	60
401(6)	ASPHALT PRICE ADJUSTMENT - QUALITY	C.S.	ALL REQ'D
401(9)	LONGITUDINAL JOINT ADHESIVE	L.F.	2,450
401(10)	ASPHALT MATERIAL PRICE ADJUSTMENT - UNIT PRICE	C.S.	ALL REQ'D
511(3)	MODULAR BLOCK RETAINING WALL	S.F.	300
603(17-18)	18 INCH PIPE	L.F.	1,735
603(17-24)	24 INCH PIPE	L.F.	68
603(20-24)	END SECTION FOR 24 INCH PIPE	EACH	2
604(1A)	STORM SEWER MANHOLE, TYPE I	EACH	19
604(3)	RECONSTRUCT EXISTING MANHOLE	EACH	1
604(4)	ADJUST EXISTING MANHOLE	EACH	9
604(5A)	INLET, TYPE A	EACH	2
604(8)	ADJUST EXISTING INLET FRAME AND GRATE	EACH	3
607(4)	RECONSTRUCTED FENCE	L.F.	405
608(3)	ASPHALT SIDEWALK	S.Y.	1,600
608(6)	CURB RAMP	EACH	9
609(2)	CURB AND GUTTER, TYPE I	L.F.	3,850
615(1)	STANDARD SIGN	S.F.	149.00
615(2)	REMOVE AND RELOCATE EXISTING SIGN	EACH	2
615(6)	SALVAGE SIGN	EACH	30
619(5)	SEDIMENT RETENTION FIBER ROLLS (SRFRS)	L.F.	200
619(10)	MANUFACTURED INLET PROTECTION SYSTEM	EACH	3
621(1A)	TREE, PAPER BIRCH, 4 INCH CALIPER	EACH	30
623(1)	SODDING	S.Y.	1,700
625(1)	PIPE HAND RAIL	L.F.	75
627(10)	ADJUSTMENT OF VALVE BOX	EACH	11
630(2)	GEOTEXTILE, STABILIZATION	S.Y.	
633(1)	SILT FENCE	L.F.	

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	C1	C1

ESTIMATE OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	PAY UNIT	TOTAL QUANTITY
639(6)	APPROACH	EACH	16
640(1)	MOBILIZATION AND DEMOBILIZATION	L.S.	ALL REQ'D
641(1)	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	L.S.	ALL REQ'D
641(2)	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	C.S.	ALL REQ'D
641(6)	WITHHOLDING	C.S.	ALL REQ'D
641(7)	SWPPP MANAGER	L.S.	ALL REQ'D
642(1)	CONSTRUCTION SURVEYING	L.S.	ALL REQ'D
642(3)	THREE PERSON SURVEY PARTY	hour	40
643(2)	TRAFFIC MAINTENANCE	L.S.	ALL REQ'D
643(3)	PERMANENT CONSTRUCTION SIGNS	L.S.	ALL REQ'D
643(15)	FLAGGING	C.S.	ALL REQ'D
643(23)	TRAFFIC PRICE ADJUSTMENT	C.S.	ALL REQ'D
643(25)	TRAFFIC CONTROL	C.S.	ALL REQ'D
	7-16-2013		
644(1)	FIELD OFFICE	L.S.	ALL REQ'D
644(10)	ENGINEERING COMMUNICATIONS	C.S.	ALL REQ'D
646(1)	CPM SCHEDULING	L.S.	ALL REQ'D
647(1)	WIDE PAD DOZER, 65 HP MIN.	C.S.	ALL REQ'D
670(10)	MMA PAVEMENT MARKINGS	L.S.	ALL REQ'D
682(1)	VAC-TRUCK POTHOLE	C.S.	ALL REQ'D

TABLE OF ESTIMATING FACTORS		
ITEM NO.	ITEM DESCRIPTION	ESTIMATING FACTOR
203(6A)	BORROW, TYPE A	145 LB/FT³
301(1)	AGGREGATE BASE COURSE, GRADING D-1	148 LB/FT³
401(1A)	ASPHALT CONCRETE, TYPE II; CLASS A	153 LB/FT³
401(2)	ASPHALT CEMENT, GRADE PG 58-34	5.5% WEIGHT OF 401(1A)



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
ESTIMATE OF QUANTITIES

DESIGNED BY DLP
CHECKED BY
DRAFTED BY CMW/DLP

SHEETS
N/A

SCALE
N/A

LAYOUT
D2

DATE TIME
7/11/2013 3:37 PM

DRAWING LOCATION
W:\Projects\88th Avenue - Brook St to Elmore Rd_54601\Civ3D12\PlanSet\54601_D01_Summary.dwg

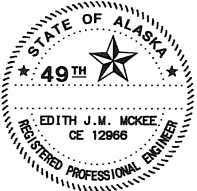
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	D2	D6

202(2) REMOVAL OF PAVEMENT					
SHEET	STATION TO STATION	OFFSET	WIDTH (L.F.)	AREA (S.Y.)	REMARKS
F1-F6	100+00 TO 124+66	CL.	VARIES	7,750	
TOTAL ROUNDED				7,750	

202(4) REMOVAL OF CULVERT PIPE					
SHEET	STATION	OFFSET	DIA (IN.)	LENGTH (L.F.)	REMARKS
F1	102+20	RT.	18	20	
F2	105+33	RT.	18	20	
F2	105+71	CL.	18	35	
F2	106+35	RT.	18	10	
F2	106+40	RT.	18	10	
F3	108+08	LT.	18	30	
F3	109+13	LT.	18	20	
F5	118+00	RT.	24	53	
F5	118+80	RT.	18	31	
F5	119+37	LT.	18	24	
F5	119+51	CL.	24	32	
F5	121+19	LT.	24	30	
F6	123+50	LT.	18	28	
TOTAL				343	

202(6) REMOVAL OF MANHOLE				
SHEET	STATION	OFFSET	TYPE I (EACH)	REMARKS
F2	106+40	RT.	X	RENDON DR.
F2	106+64	LT.	X	
TOTAL			2	

202(10), 202(12) MAIL BOX INSTALLATION					
SHEET	STATION	OFFSET	202(10) SINGLE INSTALLATION (EACH)	202(12) DOUBLE INSTALLATION (EACH)	REMARKS
F1	101+91	RT.		X	4 BOXES
F2	104+26	LT.		X	3 BOXES
F2	106+17	RT.	X		
F2	106+59	RT.	X		
F3	110+84	LT.	X		
F4	114+41	LT.	X		
F4	117+09	LT.	X		
F5	120+86	LT.	X		7-16-2013
F6	123+01	RT.	X		
TOTALS			7	2	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
SUMMARY TABLES

DESIGNED BY DLP
CHECKED BY
DATE 7/11/2013 12:51 PM
DRAWING LOCATION
W:\Projects\88th Avenue - Brook St to Elmore Rd_54601\Civil\3D12\Plan\set\54601_D01_Summary.dwg

XREF'S
N/A

SCALE
N/A

LAYOUT
D3

DATE
7/11/2013 12:51 PM

202(13)

REMOVAL OF FENCE					
SHEET	STATION TO STATION		OFFSET	LENGTH (L.F.)	REMARKS
F2	104+82	TO 105+81	RT.	105	
F2	105+81	TO 106+04	RT.	24	
F3	109+21	TO 109+93	RT.	82	
F3	109+97	TO 110+73	RT.	80	
F3	110+73	TO 111+54	RT.	52	
F3	111+17	TO 112+08	RT.	40	
F3	111+97	TO 113+00	RT.	125	
F4	115+21	TO 116+46	RT.	125	
F4	116+31	TO 116+64	LT.	23	
F5	118+71	TO 118+91	RT.	20	
TOTAL ROUNDED				676	

203(3)

UNCLASSIFIED EXCAVATION							
SHEET	STATION TO STATION		OFFSET	LENGTH (L.F.)	AREA (S.F.)	VOLUME (C.Y.)	REMARKS
F1-F3	100+15	TO 113+00	CL.	1,285	148	7,034	
F1-F3	113+00	TO 124+62	CL.	1,162	148	6,369	
TOTAL ROUNDED					13,500		

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	D3	D6

203(6A)

BORROW, TYPE A						
SHEET	STATION TO STATION	OFFSET	LENGTH (L.F.)	VOLUME (C.F.)	WEIGHT (TON)	REMARKS
F1	100+15 TO 100+42	CL.	27	3,899	283	SPRUCE BROOK ST INTERSECTION
F1-F3	100+15 TO 113+00	LT.	1,285	37,522	2,720	SIDEWALK
F1-F3	100+42 TO 113+00	CL.	1,258	132,090	9,577	ROADWAY
F4-F6	113+00 TO 124+62	CL.	1,162	122,010	8,846	ROADWAY
F4-F6	113+00 TO 124+62	LT.	1,125	32,850	2,382	SIDEWALK
F6	124+62 TO 124+64	CL.	39	7,217	523	ELMORE RD INTERSECTION
	APPROACHES			76,559	5,550	
				7-16-2013		
TOTAL ROUNDED					29,900	



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
SUMMARY TABLES

DESIGNED BY DLP
CHECKED BY
DRAFTED BY CMVH/DLP

REVIEWS
N/A
N/A

SCALE
N/A

LAYOUT
D4

DATE TIME
7/2/2013 10:19 AM

DRAWING LOCATION
W:\Projects\88th Avenue - Brook St to Elmore Rd_54601\Civ3D12\PlanSet\54601_D01_Summary.dwg

603(17-24), 603(20-24)

PIPE SUMMARY										
SHEET	STATION	OFFSET	DIAMETER (IN.)	LENGTH (L.F.)	ELEV. IN	ELEV. OUT	MAX COVER	% GRADE	END SECTIONS (EACH)	REMARKS
F4	118+03	RT.	24	68	289.85	289.34	2.0	0.75	2	

604(1A), 604(3), 604(4), 604(5A), 604(8)

MANHOLES AND INLETS										
SHEET	STATION	LABEL	OFFSET	604(1A) STORM SEWER MH, TYPE I (EACH)	604(3) RECONSTRUCT EXISTING MH (EACH)	604(4) ADJUST EXISTING MH (EACH)	604(5A) INLET, TYPE A (EACH)	604(8) ADJUST EXISTING INLET FRAME AND GRATE	REMARKS	
F1	100+17	-	RT.					X		
F1	100+17	-	LT.					X		
F1	100+84	-	CL.			X				
F1	101+12	-	RT.			X				
F1	101+42	-	RT.			X				
F1	101+65	-	RT.			X				
F1	102+20	S1-1	LT.	X						
F1	102+20	S1-2	RT.	X						
F1	102+20	S1-3	RT.	X						
F2	104+27	-	RT.			X				
F2	104+27	-	RT.			X				
F2	105+33	S2-1	LT.	X						
F2	105+33	S2-2	RT.	X						
F2	105+33	S2-3	RT.	X						
F2	105+71	-	RT.		X					
F2	106+27	-	RT.			X				
F2	106+40	S2-4	RT.	X						
F2	106+64	S2-5	LT.	X						
F2	107+00	S2-6	LT.	X						
F2	107+00	S2-7	RT.	X						
F3	109+50	S3-1	LT.	X						
F3	109+50	S3-2	RT.	X						
F3	111+25	S3-3	LT.	X						
F4	113+28	S4-1	LT.	X						
F4	115+63	-	RT.			X				
F4	117+82	-	RT.			X				
F5	119+11	S5-1	LT.				X			
F5	119+60	S5-2	LT.	X						
F5	119+60	S5-3	RT.	X						
F5	120+93	S5-4	LT.	X						
F5	123+00	S5-5	LT.				X			
F6	124+28	S6-1	LT.	X						
F6	124+44	S6-2	LT.	X						
F6	EOP	-	RT.					X		
TOTALS				19	1	9	2	3		

REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	PROJECT NO. 54601	2013	D4	D6

7-16-2013



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
SUMMARY TABLES

DESIGNED BY DLP
CHECKED BY
DRAWN BY LWW/DLP

XREFS
N/A

SCALE
N/A

LAYOUT
D5

DATE TIME
7/2/2013 10:19 AM

DRAWING LOCATION
W:\Projects\88th Avenue - Brook St to Elmore Rd_54601\Civ3D12\PlanSet\54601_D01_Summary.dwg

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	D5	D6

607(4)					
RECONSTRUCTED FENCE					
SHEET	STATION TO STATION		OFFSET	LENGTH (L.F.)	REMARKS
F2	104+82	TO 105+81	RT.	99	
F2	105+81	TO 106+04	RT.	23	
F3	109+31	TO 109+93	RT.	62	
F3	109+97	TO 110+69	RT.	72	
F3	111+17	TO 111+53	RT.	36	
F3	111+83	TO 112+94	RT.	111	
TOTAL ROUNDED				405	

627(10)			
ADJUSTMENT OF VALVE BOX			
SHEET	STATION	OFFSET	REMARKS
F1	100+14	RT.	
F2	106+48	RT.	
F2	106+48	RT.	
F4	113+29	LT.	
F4	113+32	RT.	
F4	113+35	RT.	
F4	115+75	LT.	
F4	115+76	RT.	
F4	115+80	LT.	
F4	117+91	LT.	
F5	118+06	LT.	
TOTAL		11	

7-16-2013



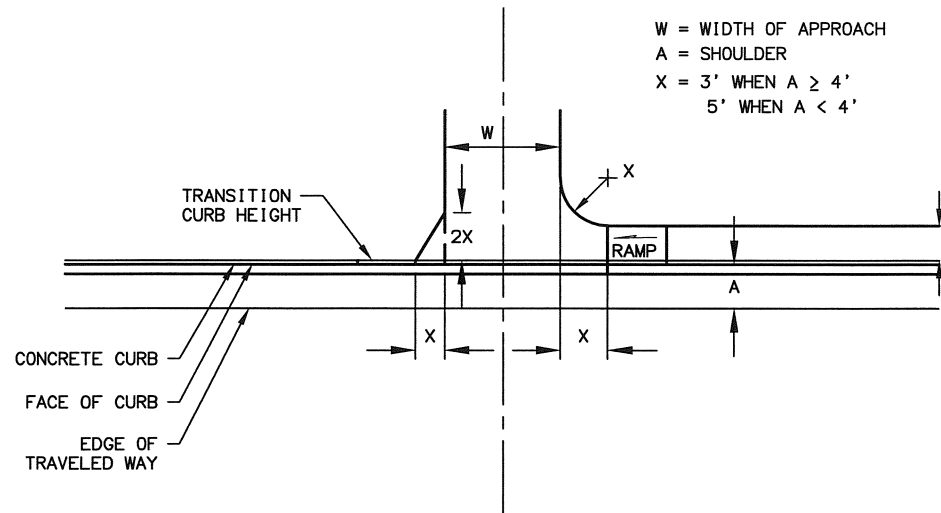
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
SUMMARY TABLES

DESIGNED BY DLP
CHECKED BY QWH
DRAFTED BY
XREFS
N/A
N/A
SCALE
N/A
LAYOUT
E1
DATE
TIME
7/3/2013 7:53 AM
DRAWING LOCATION
W:\Projects\88th Avenue - Brook St to Elmore Rd_54601\Civil\3D12\Plan\set\54601_E1-E2.dwg

REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	PROJECT NO. 54601	2013	E1	E5

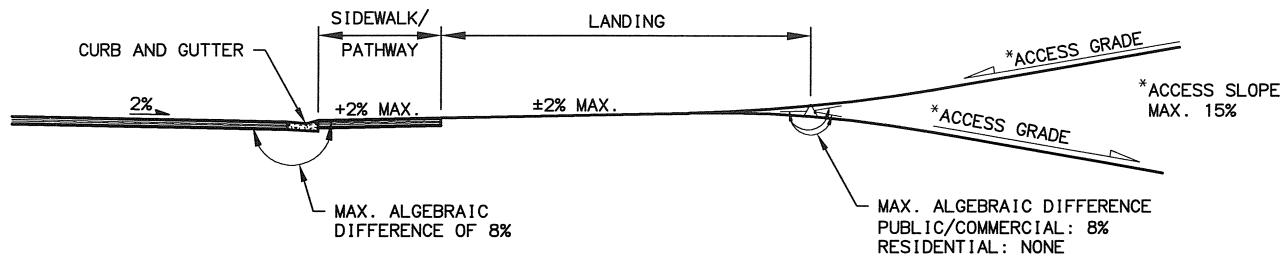


CURB CUT WIDENING

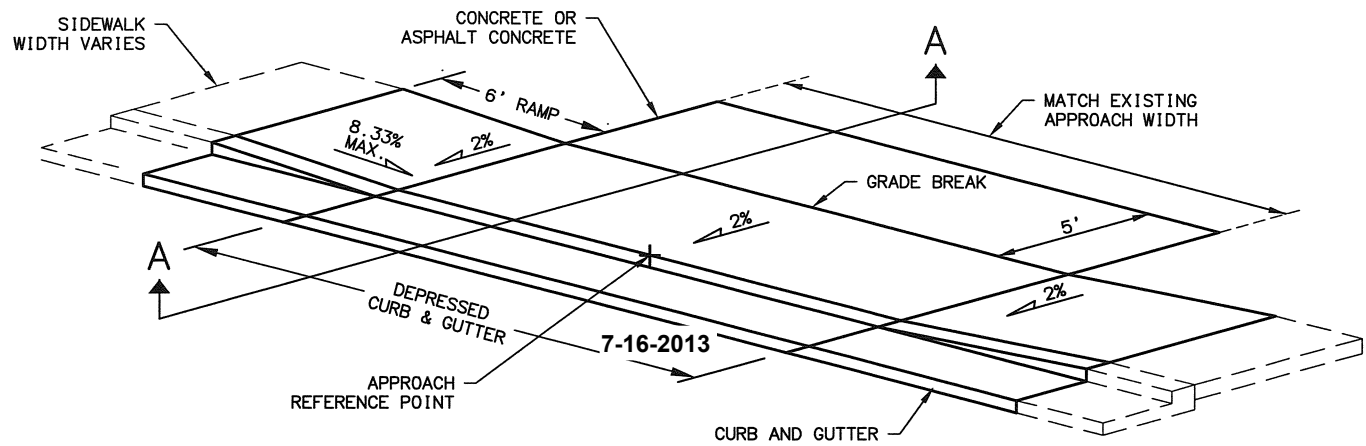
WITHOUT SIDEWALK

CURB CUT WIDENING

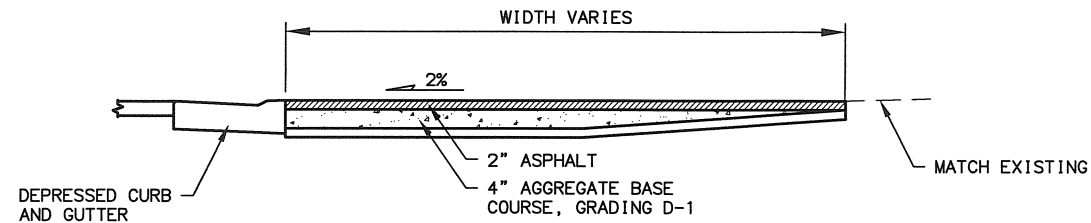
WITH ADJACENT SIDEWALK



CURB CUT PROFILE: CROWNED CROSS SLOPE



CURB CUT DETAIL



SECTION A-A

NOTES:

1. SEE APPROACH SUMMARY FOR APPROACH STATION, WIDTH, AND TYPE.
2. SEE TYPICAL SECTIONS FOR SIDEWALK WIDTHS.
3. RESIDENTIAL LANDING LENGTH = 10'
PUBLIC/COMMERCIAL LANDING LENGTH = 30'



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
DRIVEWAY DETAILS**

DESIGNED BY: DLP
CHECKED BY: --
DRAWN BY: TWH

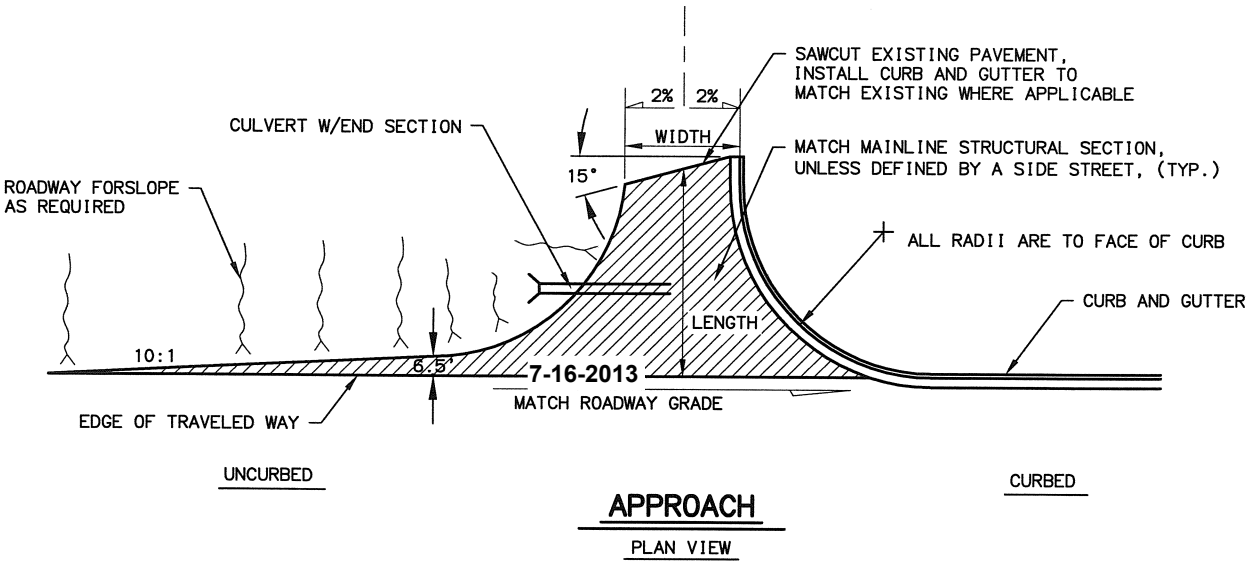
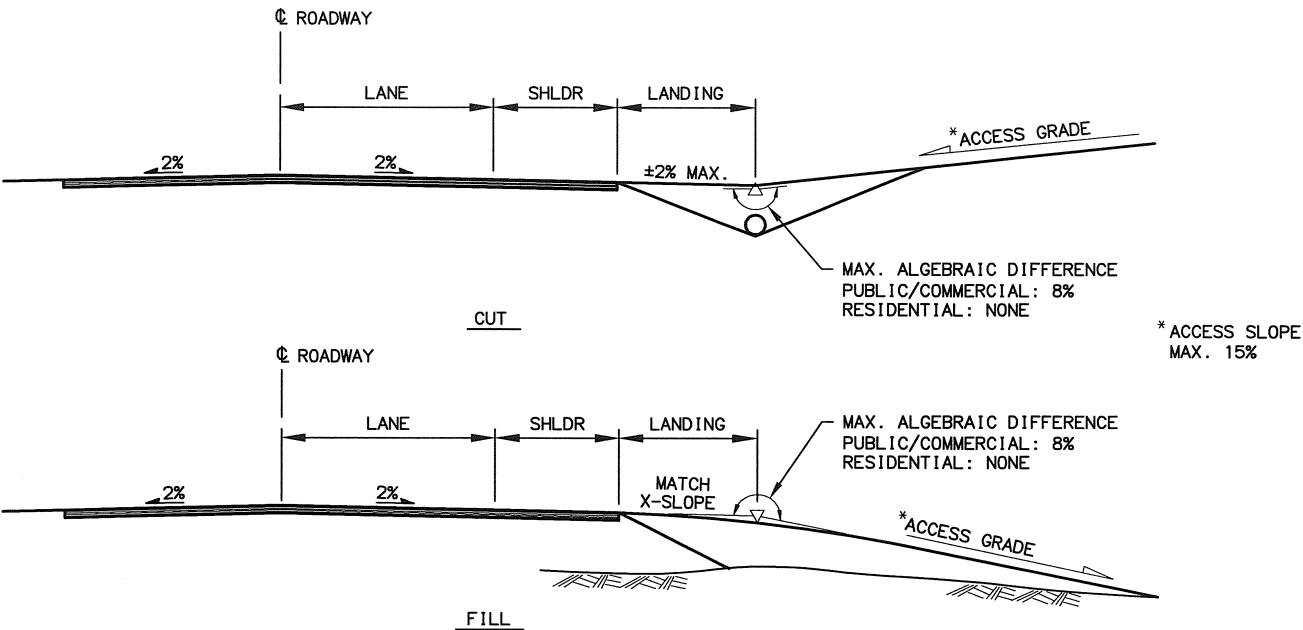
SCALE: N/A

LAYOUT: E2

DATE: 7/11/2013 10:15 AM

DRAWING LOCATION: W:\Projects\88th Avenue - Brook St. to Elmore Rd\54601\54601_E1-E2.dwg

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	E2	E5



NOTES:

1. SEE APPROACH SUMMARY FOR APPROACH STATION, LENGTH, WIDTH, RADIUS, AND TYPE.
2. SEE SHEETS F7-F9 FOR PUBLIC APPROACHES.
3. THE PAVED PORTION OF THE APPROACH STRUCTURAL SECTION SHALL BE CONSTRUCTED OF THE SAME MATERIAL AS THE ROADWAY STRUCTURAL SECTION UNLESS A SEPARATE TYPICAL SECTION IS INCLUDED IN THE PLANS COVERING APPROACHES.
4. PAVE TO THE END OF THE RADIUS RETURN UNLESS OTHERWISE INDICATED.
5. APPROACH VERTICAL CURVE REQUIREMENTS: CREST - 2 1/2" MAXIMUM IN A 10-FOOT CHORD
SAG - 2" MAXIMUM IN A 10-FOOT CHORD
6. INSTALL APPROACH PIPE IN DITCH INVERT IN CUT SECTIONS AND AT TOE OF SLOPE IN FILL SECTIONS. SEE PIPE INSTALLATION TABLES IN D & F SHEETS FOR LOCATIONS.
7. RESIDENTIAL LANDING LENGTH = 10', PUBLIC/COMMERCIAL LANDING LENGTH = 30'
8. SKEW TRANSVERSE JOINTS 15° AT PUBLIC APPROACHES WHERE POSSIBLE.



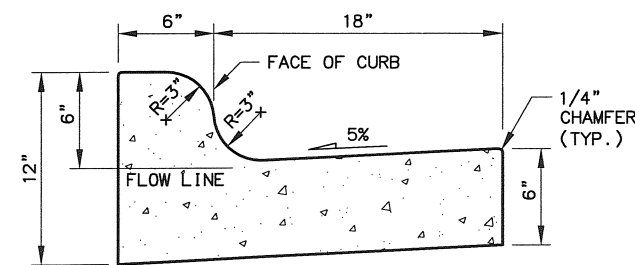
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
APPROACH DETAILS

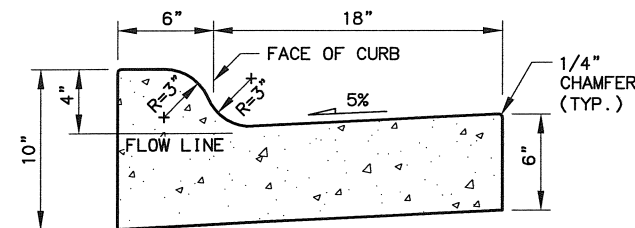
DRAWING LOCATION: W:\Projects\88th Avenue - Brook St to Elmore Rd_54601\Civ3D12\PlanSet\54601_E3_Curb & Gutter Details.dwg
DATE: 7/3/2013 3:15 PM
LAYOUT: E3
SCALE: N/A
C.P. V.S.
Border-Details.dwg
N/A

REVISIONS		
NO.	DATE	DESCRIPTION
	03/08/2013	UPDATED TO MATCH CHANGES MADE TO STD. DWG. 1-20.14

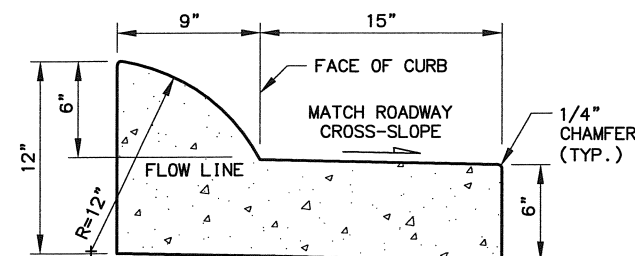
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	PROJECT NO. 54601	2013	E3	E5



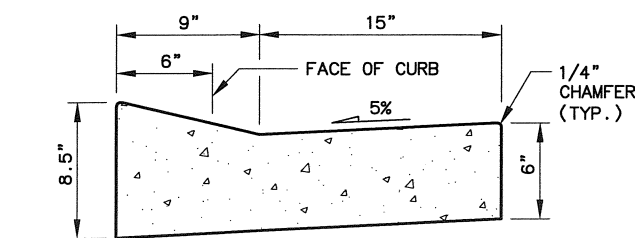
6" MOUNTABLE CURB & GUTTER



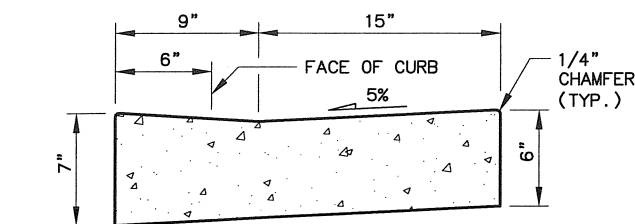
4" MOUNTABLE CURB & GUTTER



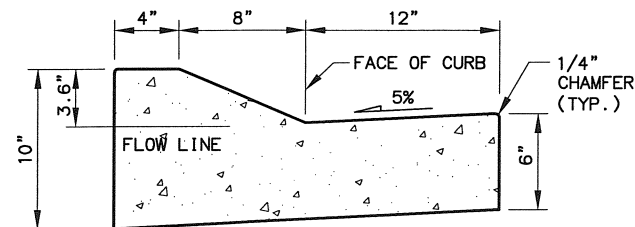
EXPRESSWAY CURB & GUTTER (MEDIAN)



DEPRESSED CURB & GUTTER (CURB CUT)



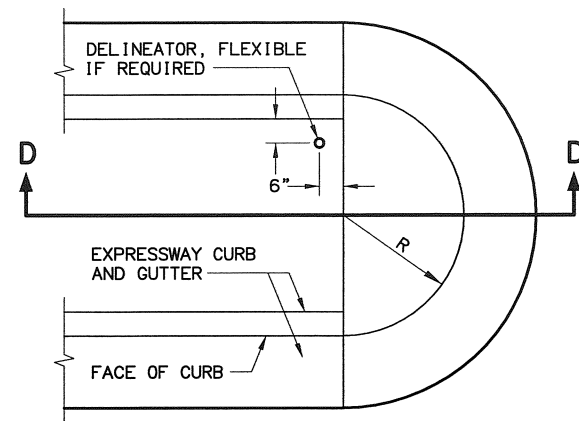
CURB RAMP CURB & GUTTER



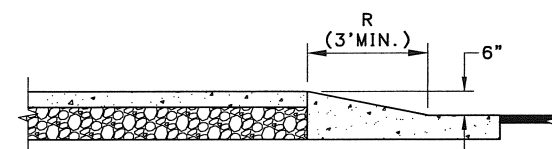
LOW PROFILE CURB & GUTTER

CURB NOTE:

MOUNTABLE, DEPRESSED, ROLLED, AND EXPRESSWAY GUTTER PANS SHALL MATCH THE ROADWAY CROSS SLOPE IN THE HIGH SIDE OF SUPER ELEVATED AREAS.



PLAN

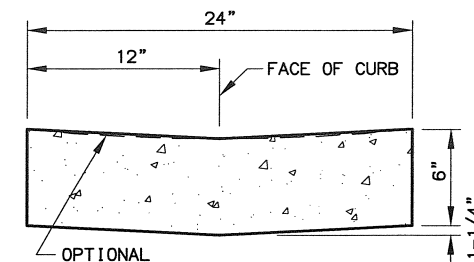


SECTION D-D

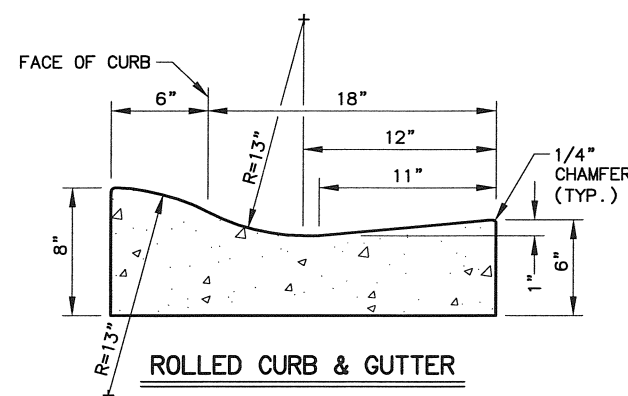
MEDIAN NOSE DETAIL

MEDIAN NOSE NOTE:

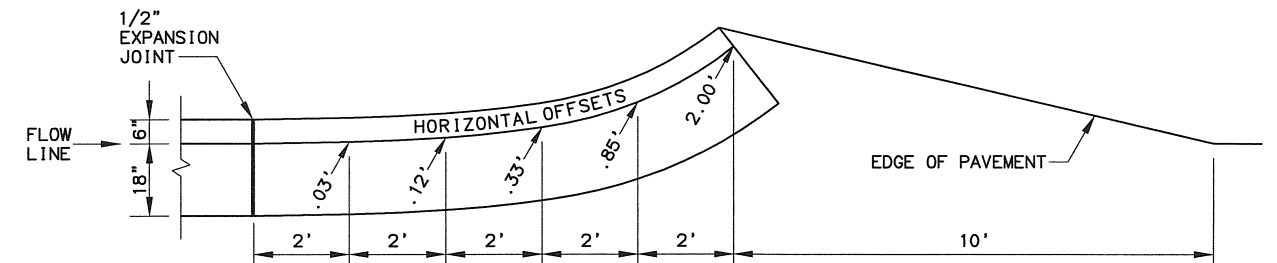
PAINT ALL MEDIAN NOSES WITH YELLOW REFLECTORIZED PAINT. PAINT FOR MEDIAN NOSES IS SUBSIDIARY TO 670 ITEMS.



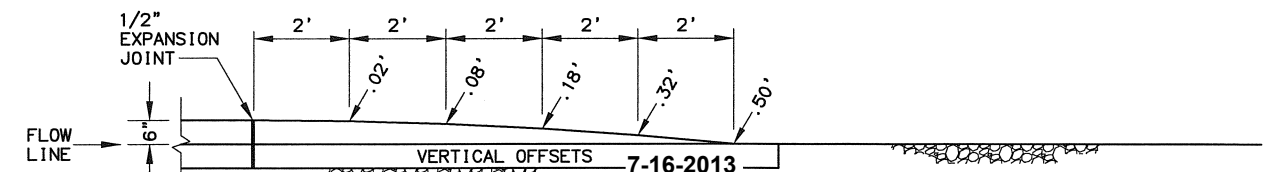
GUTTER



ROLLED CURB & GUTTER

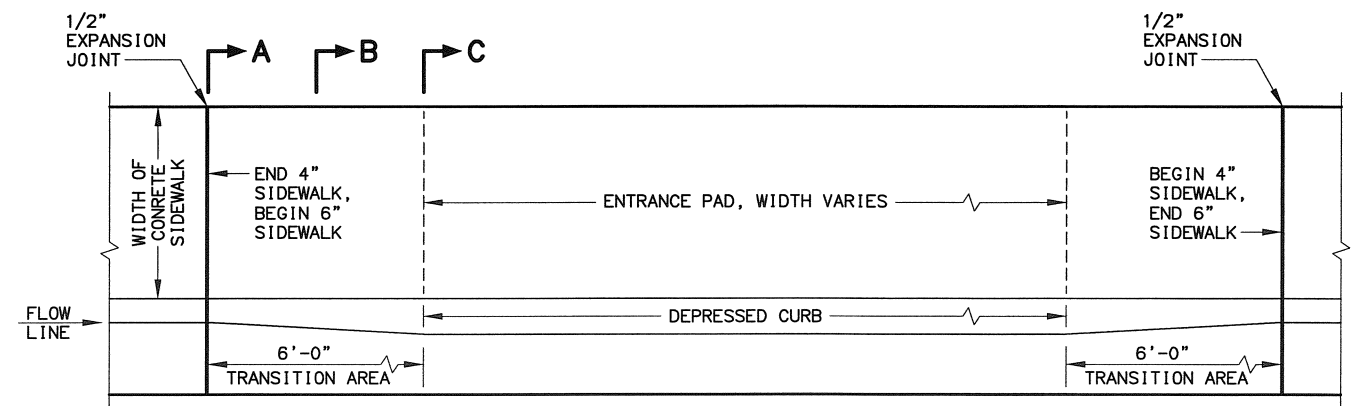


PLAN

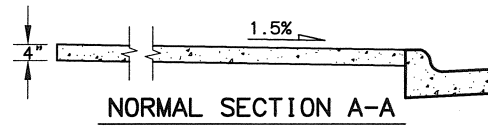


PROFILE

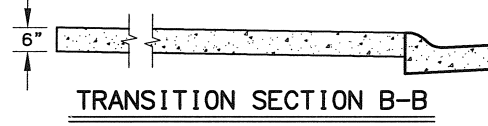
CURB & GUTTER TERMINATION TRANSITIONS



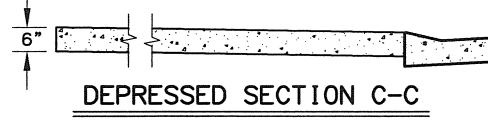
PLAN



NORMAL SECTION A-A

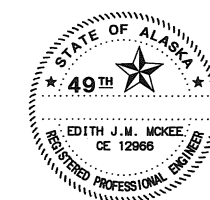


TRANSITION SECTION B-B



DEPRESSED SECTION C-C

VEHICULAR CURB CUT DETAILS



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)

CURB & GUTTER DETAILS

DESIGNED BY DLP
CHECKED BY LWH
DRAFTED BY LWH

SHEETS
N/A

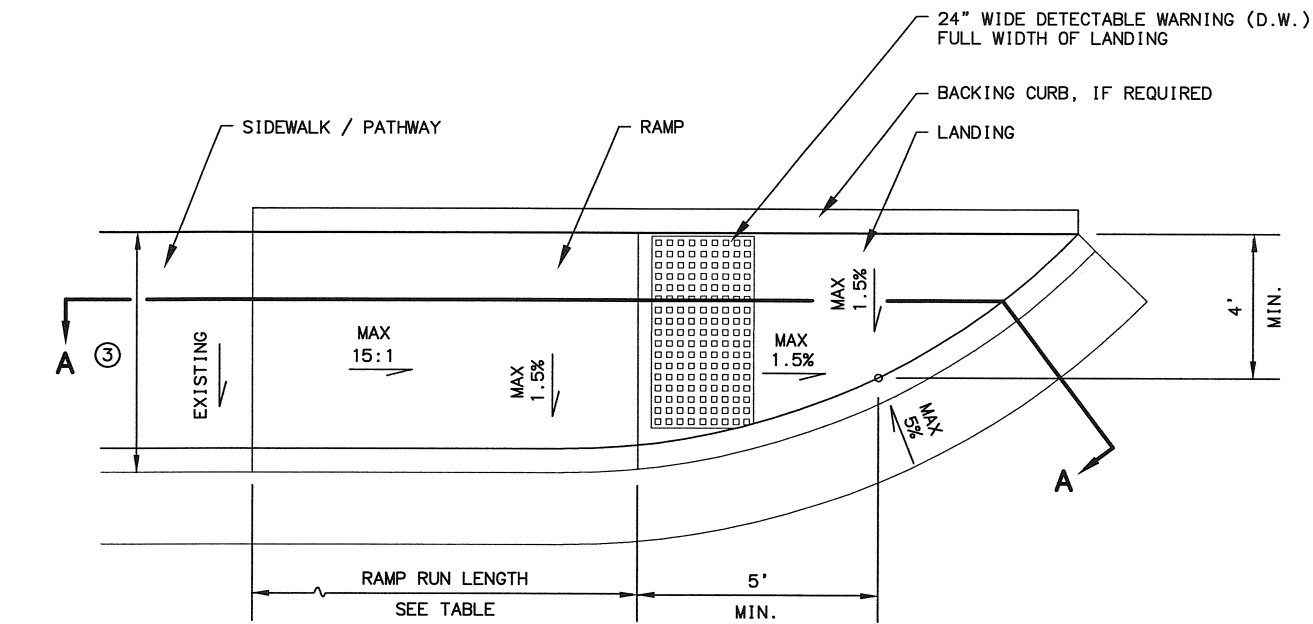
SCALE
N/A

LAYOUT
E4

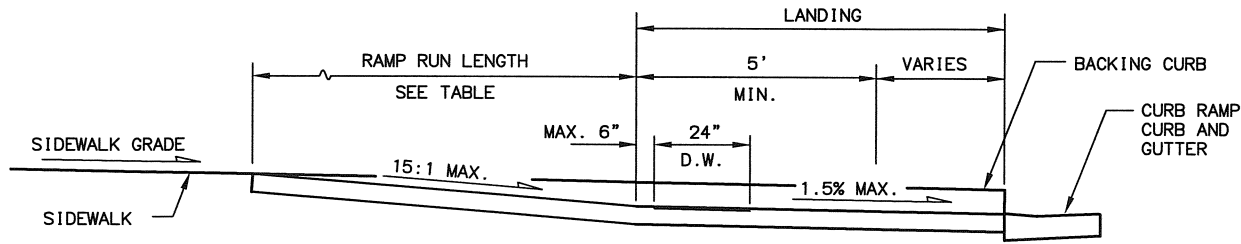
DATE
TIME
7/3/2013 2:33 PM

DRAWING LOCATION
W:\Projects\88th Avenue - Brook St. to Elmore Rd_54601\Civil\3D12\Plan\set\54601_E4-E5.dwg

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	E4	E5



PLAN



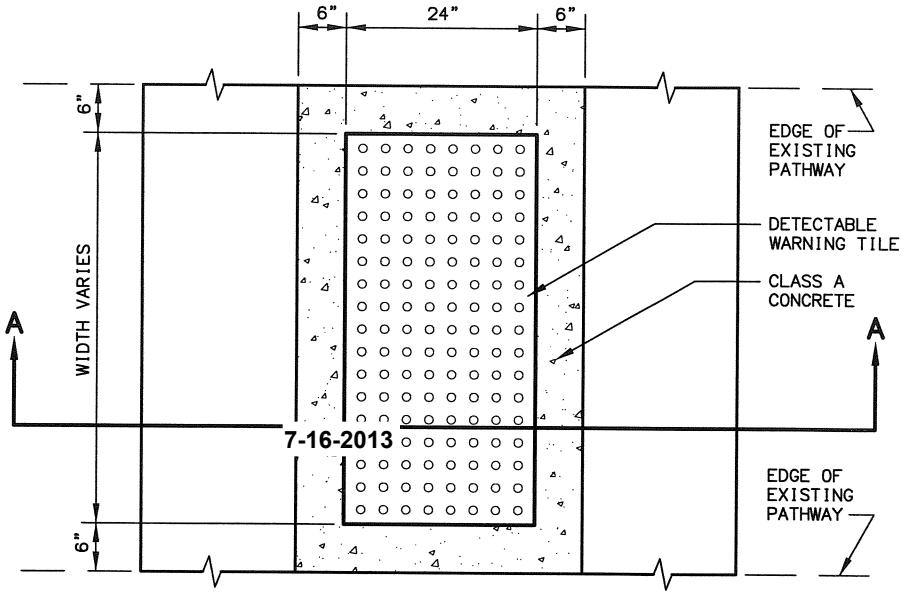
SECTION A-A

UNIDIRECTIONAL CURB RAMP

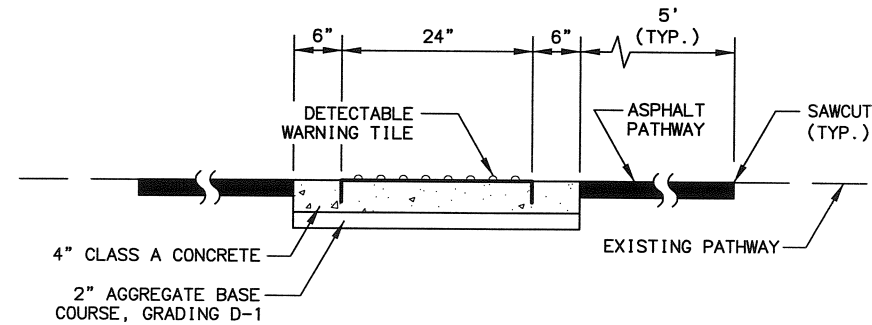
NOTES:

1. CONSTRUCT RAMP RUNS AND LANDINGS FROM CONCRETE REGARDLESS OF WHETHER THE SIDEWALK IS ASPHALT OR CONCRETE. PROVIDE A COARSE BROOMED FINISH RUNNING PERPENDICULAR TO THE DIRECTION OF TRAVEL.
2. INSTALL DETECTABLE WARNING TILES AS SHOWN. FURNISH TILES THAT CONFORM TO THOSE DETAILED IN STANDARD DRAWING I-21.
- ③ SEE TYPICAL SECTIONS FOR SIDEWALK WIDTHS.
4. REPLACE SODDING IF DAMAGED DURING CONSTRUCTION.

UPHILL SIDEWALK GRADE	RAMP RUN LENGTH	DOWNHILL SIDEWALK GRADES	RAMP RUN LENGTH
0 TO 1.5%	7.5'	ALL	7.5'
1.51% TO 4.0%	12'		
STEEPER THAN 4.0%	15'		



PLAN



SECTION A-A

DETECTABLE WARNING DETAIL

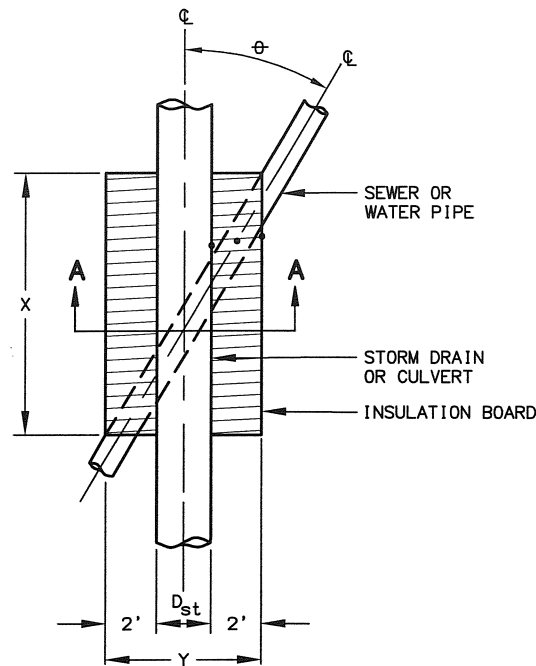


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

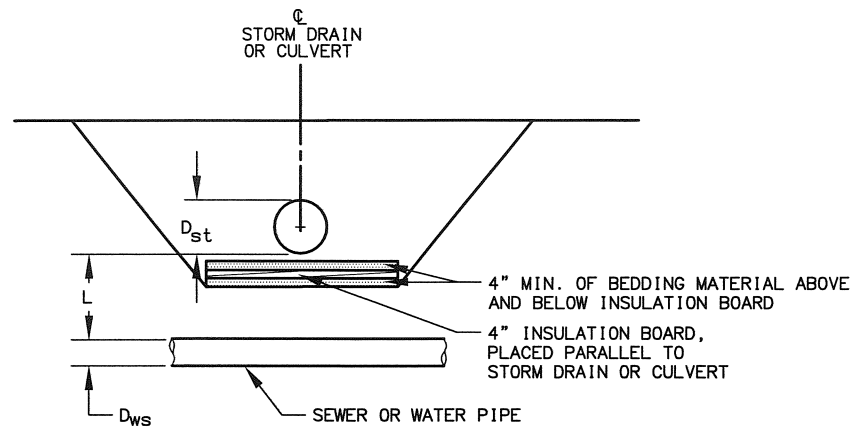
88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)

UNIDIRECTIONAL CURB RAMP
AND WARNING TILE DETAILS

DESIGNED BY DLP
CHECKED BY
DRAFTED BY CMH
XREFS
N/A
N/A
SCALE
N/A
LAYOUT
E5
DATE
TIME
7/3/2013 2:33 PM
DRAWING LOCATION
W:\Projects\88th Avenue - Brook St to Elmore Rd\54601\Civil\2\Plan\54601_E4-E5.dwg



PLAN VIEW



SECTION A-A

LENGTH OF CONFLICT (X)

D _{ws}	SKEW ANGLE			
	65° ≤ θ	45° ≤ θ < 65°	25° ≤ θ < 45°	θ < 45°
UP TO 12"	D _{st} +4'	D _{st} +7'	D _{st} +13'	EXTEND FULL LENGTH OF CONFLICT +4'
12" - 24"		D _{st} +8'	D _{st} +15'	
24" - 36"		D _{st} +10'	D _{st} +17'	
36" - 48"		D _{st} +11'	D _{st} +19'	
Y=D _{st} +4'				

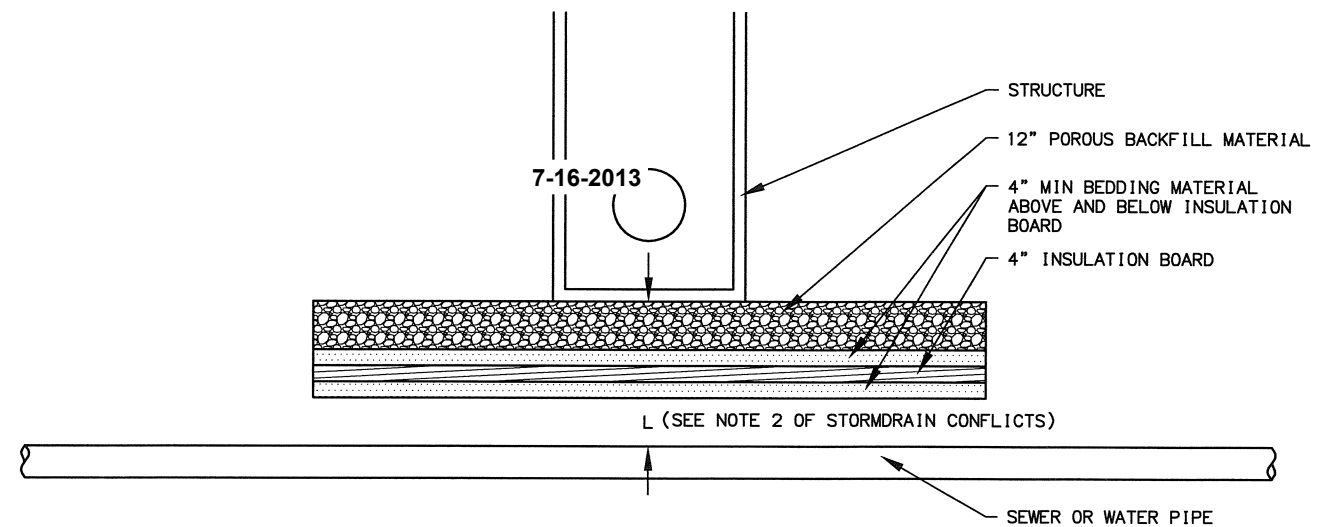
STORMDRAIN CONFLICTS: INSULATION BOARD DETAIL

NOTES:

- LENGTH OF CONFLICT IS DEFINED AS WHEN THE EDGES OF THE OUTER DIAMETER OF THE PIPES IN QUESTION ARE WITHIN 36" OF ONE ANOTHER.
- L = REQUIRED MINIMUM VERTICAL SEPARATION
A. 36" WITHOUT INSULATION
B. 18" WITH INSULATION
- INSULATION BOARD LENGTH OF CONFLICT DIMENSION = X. INSULATION BOARD WIDTH OF CONFLICT DIMENSION = Y.

REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	PROJECT NO. 54601	2013	E5	E5



STRUCTURE CONFLICT DETAIL

STRUCTURE CONFLICTS				
SHEET	STRUCTURE	TYPE	INSULATION DIMENSIONS	POROUS BACKFILL MATERIAL (CYD)
FX	SX-X	X	XX' X XX'	X.X
FX	SX-X	X	XX' X XX'	X.X
FX	SX-X	X	XX' X XX'	X.X
FX	SX-X	X	XX' X XX'	X.X
FX	SX-X	X	XX' X XX'	X.X



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
STORM DRAIN AND STRUCTURE
CONFLICT DETAILS

DESIGNED BY: DLP
CHECKED BY: N/A
DRAFTED BY: CMH

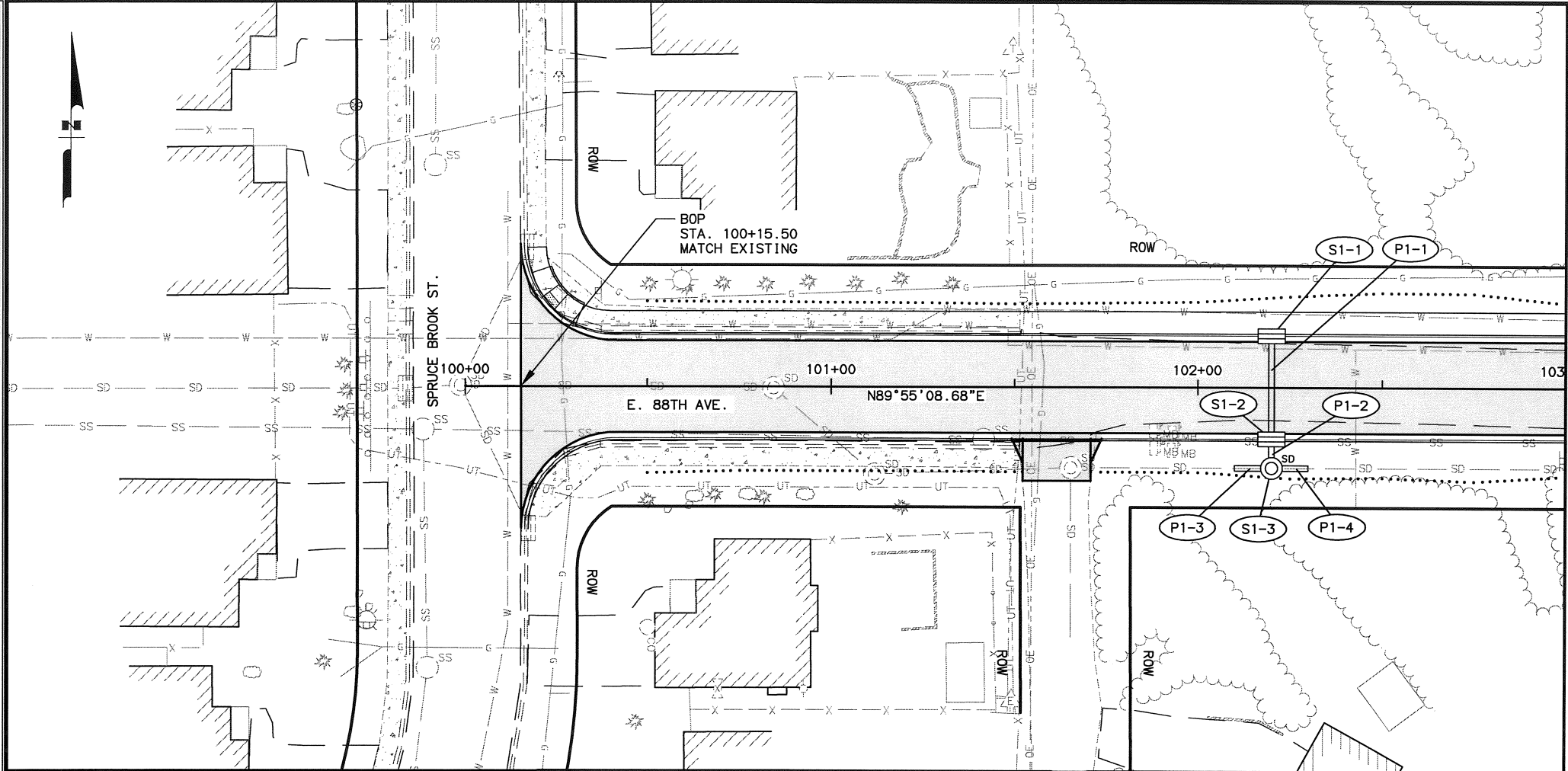
REFS: N/A

SCALE: 1:20

LAYOUT: F - (1)

DATE: 7/11/2013 10:34 AM

DRAWING LOCATION: W:\Projects\88th Avenue - Brook St to Elmore Rd\54601\Civil3D\12\Plan\54601_F01-F06_P & P.dwg



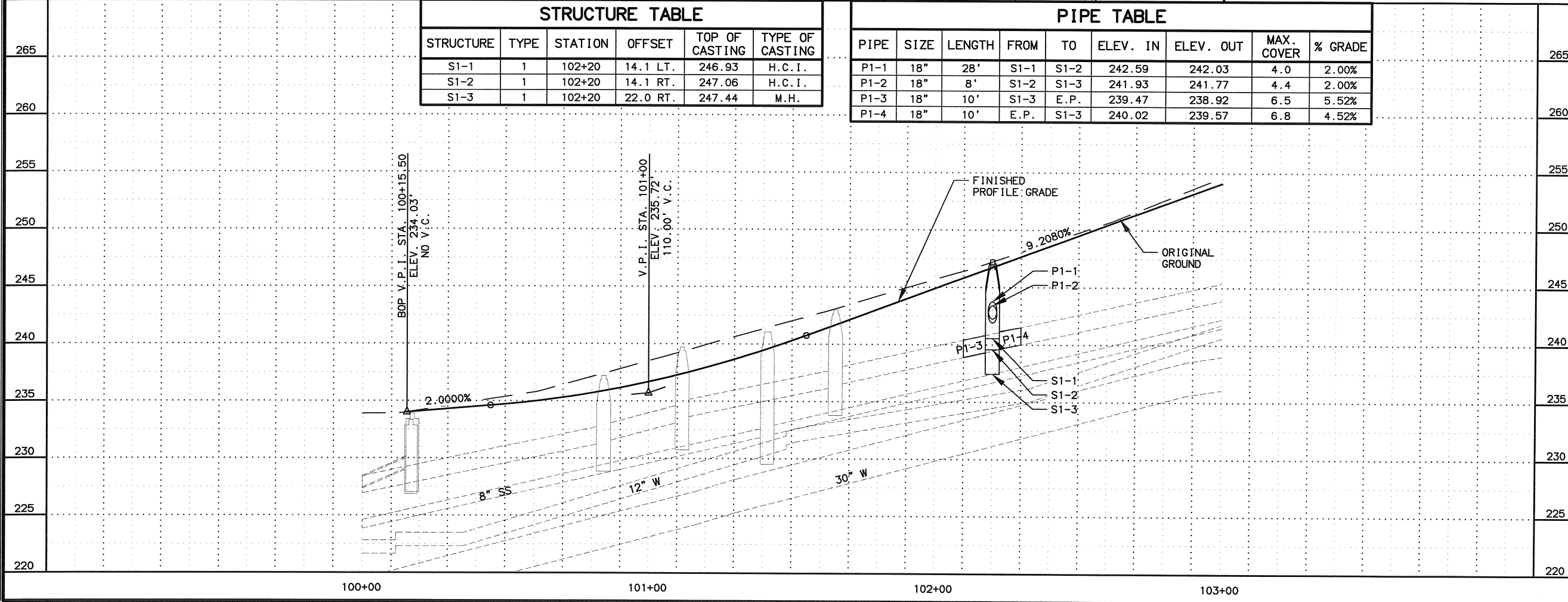
7-16-2013

STRUCTURE TABLE

STRUCTURE	TYPE	STATION	OFFSET	TOP OF CASTING	TYPE OF CASTING
S1-1	1	102+20	14.1 LT.	246.93	H.C.I.
S1-2	1	102+20	14.1 RT.	247.06	H.C.I.
S1-3	1	102+20	22.0 RT.	247.44	M.H.

PIPE TABLE

PIPE	SIZE	LENGTH	FROM	TO	ELEV. IN	ELEV. OUT	MAX. COVER	% GRADE
P1-1	18"	28'	S1-1	S1-2	242.59	242.03	4.0	2.00%
P1-2	18"	8'	S1-2	S1-3	241.93	241.77	4.4	2.00%
P1-3	18"	10'	S1-3	E.P.	239.47	238.92	6.5	5.52%
P1-4	18"	10'	E.P.	S1-3	240.02	239.57	6.8	4.52%



SHEET NO.	TOTAL SHEETS	
F1	F9	
STATE	YEAR	
ALASKA	2013	
PROJECT DESIGNATION		
54601		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

STATE OF ALASKA
49TH
EDITH J.M. MCKEE
CE 12966
REGISTERED PROFESSIONAL ENGINEER

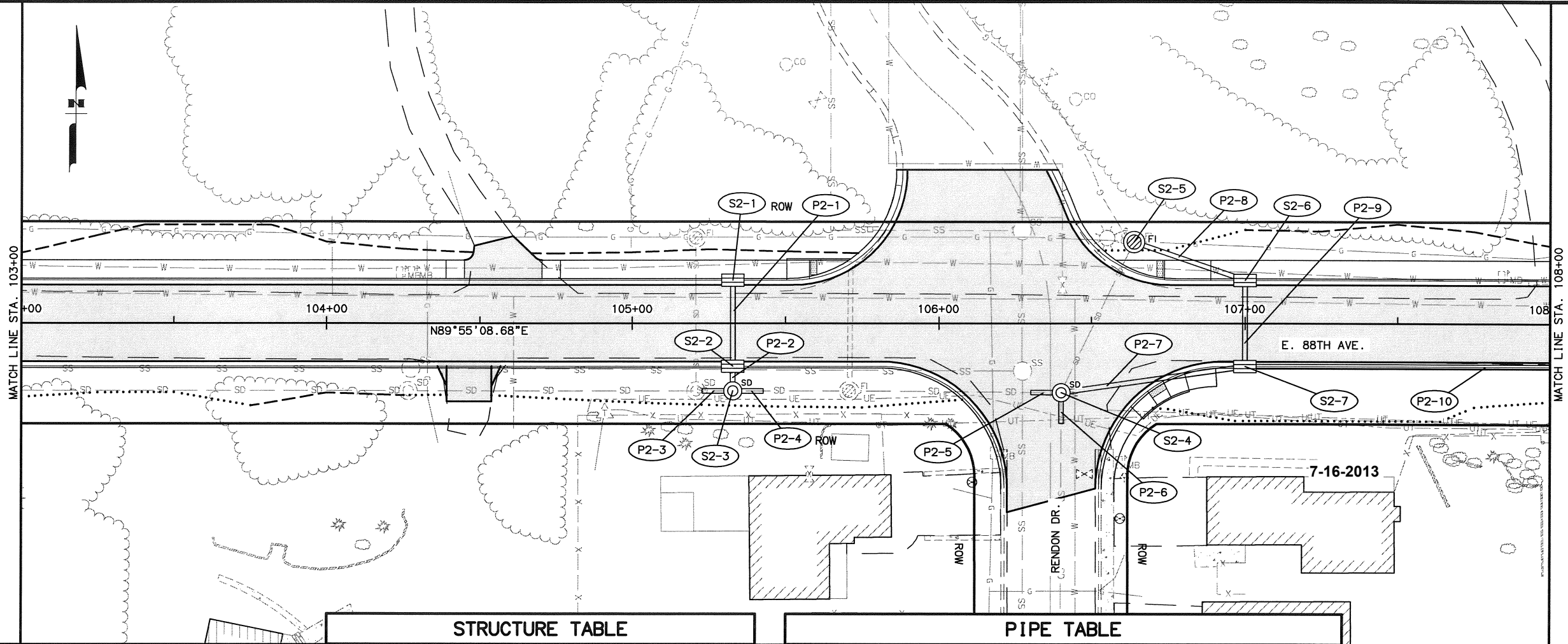
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
88TH AVE UPGRADE
SPRUCE BROOK ST
TO ELMORE RD (GF)

PLAN & PROFILE
STA. 100+00 TO STA. 103+00

DESIGNED BY: DLP
CHECKED BY: N/A
DRAFTED BY: GWH

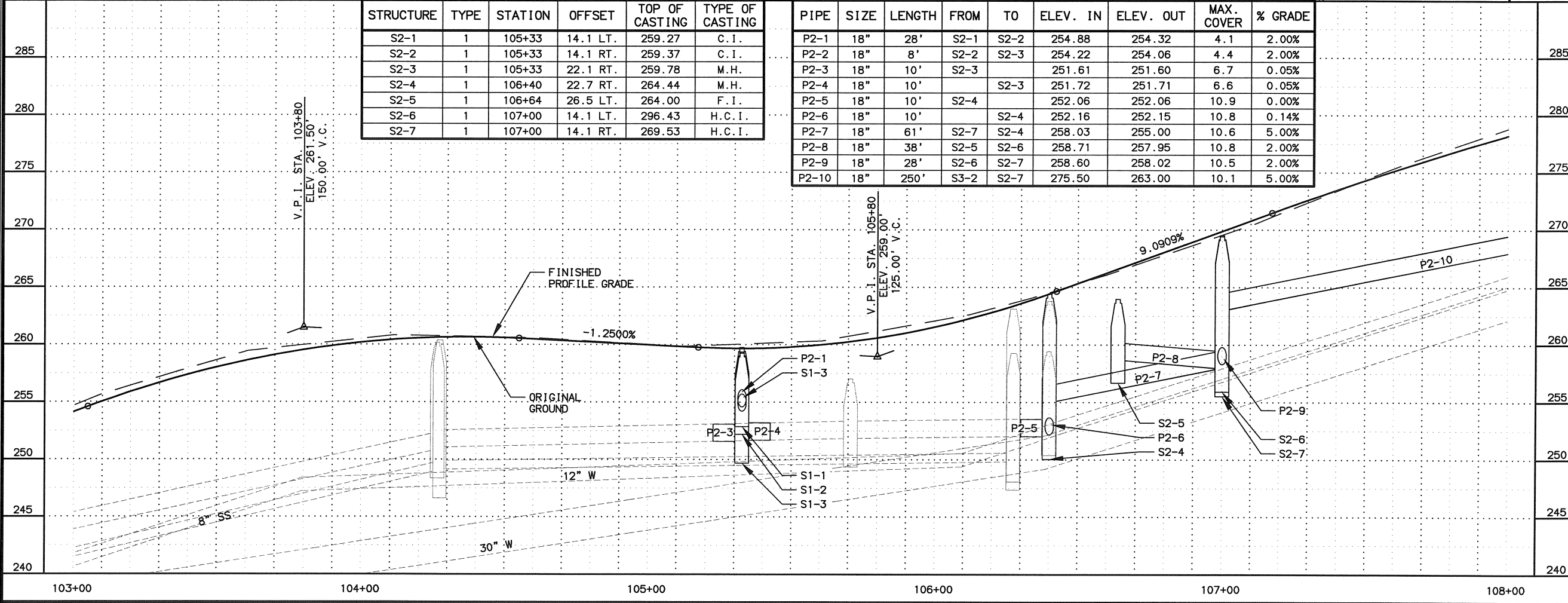
REFS: N/A
SCALE: 1:20
LAYOUT: F - (2)
DATE: 7/11/2013 10:34 AM
TIME: 10:34 AM

DRAWING LOCATION: W:\Projects\88th Avenue - Brook St to Elmore Rd\54601\Civil\3D12\Plan\54601_F01-F06_P & P.dwg



STRUCTURE TABLE					
STRUCTURE	TYPE	STATION	OFFSET	TOP OF CASTING	TYPE OF CASTING
S2-1	1	105+33	14.1 LT.	259.27	C.I.
S2-2	1	105+33	14.1 RT.	259.37	C.I.
S2-3	1	105+33	22.1 RT.	259.78	M.H.
S2-4	1	106+40	22.7 RT.	264.44	M.H.
S2-5	1	106+64	26.5 LT.	264.00	F.I.
S2-6	1	107+00	14.1 LT.	296.43	H.C.I.
S2-7	1	107+00	14.1 RT.	269.53	H.C.I.

PIPE TABLE									
PIPE	SIZE	LENGTH	FROM	TO	ELEV. IN	ELEV. OUT	MAX. COVER	% GRADE	
P2-1	18"	28'	S2-1	S2-2	254.88	254.32	4.1	2.00%	
P2-2	18"	8'	S2-2	S2-3	254.22	254.06	4.4	2.00%	
P2-3	18"	10'	S2-3		251.61	251.60	6.7	0.05%	
P2-4	18"	10'		S2-3	251.72	251.71	6.6	0.05%	
P2-5	18"	10'	S2-4		252.06	252.06	10.9	0.00%	
P2-6	18"	10'		S2-4	252.16	252.15	10.8	0.14%	
P2-7	18"	61'	S2-7	S2-4	258.03	255.00	10.6	5.00%	
P2-8	18"	38'	S2-5	S2-6	258.71	257.95	10.8	2.00%	
P2-9	18"	28'	S2-6	S2-7	258.60	258.02	10.5	2.00%	
P2-10	18"	250'	S3-2	S2-7	275.50	263.00	10.1	5.00%	



SHEET NO.	TOTAL SHEETS	
F2	F9	
STATE	YEAR	
ALASKA	2013	
PROJECT DESIGNATION		
54601		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

STATE OF ALASKA
49TH
EDITH J.M. MCKEE
CE 12966
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
88TH AVE UPGRADE
SPRUCE BROOK ST
TO ELMORE RD (GF)

PLAN & PROFILE
STA. 103+00 TO STA.108+00

DESIGNED BY: DLP
CHECKED BY: N/A
DRAWN BY: CWH

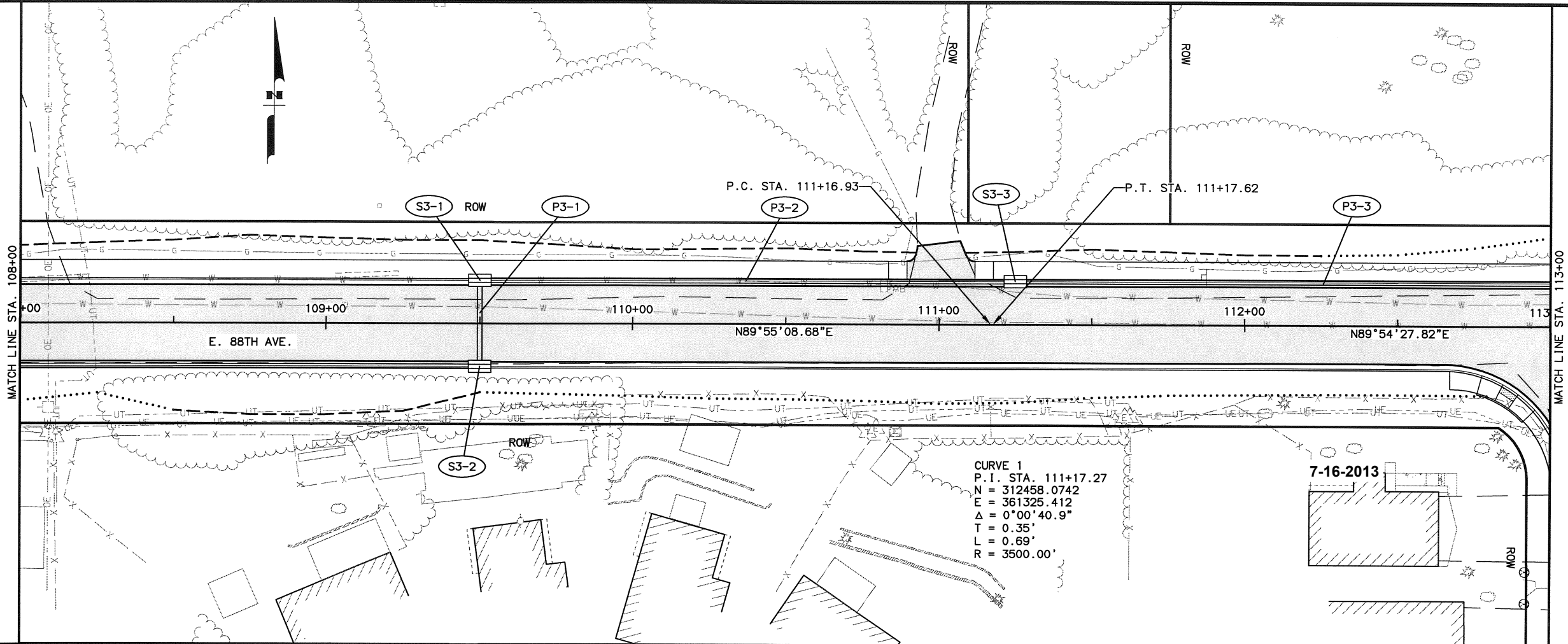
REFS: N/A

SCALE: 1:20

LAYOUT: F - (3)

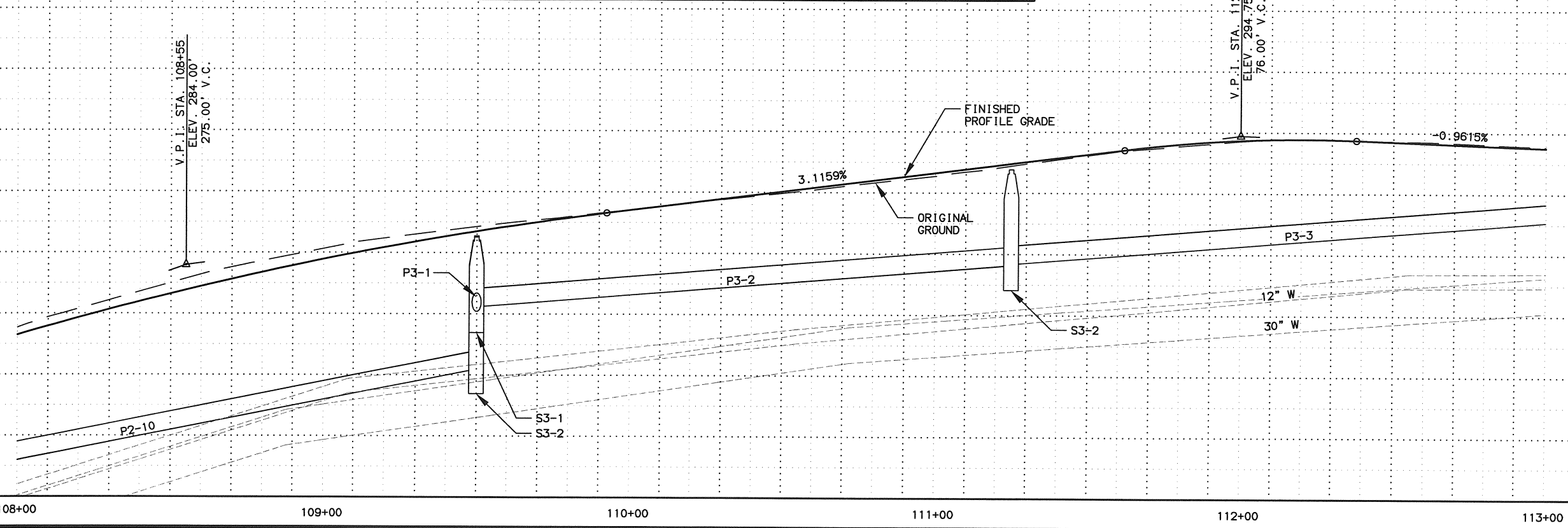
DATE: 7/11/2013 10:34 AM

DRAWING LOCATION: W:\Projects\88th Avenue - Brook St to Elmore Rd\54601\Civil\3D12\Plan\54601_F01-F06_P & P.dwg



STRUCTURE TABLE					
STRUCTURE	TYPE	STATION	OFFSET	TOP OF CASTING	TYPE OF CASTING
S3-1	1	109+50	14.1 LT.	286.29	C.I.
S3-2	1	109+50	14.1 RT.	286.39	C.I.
S3-3	1	111+25	14.1 LT.	291.94	C.I.

PIPE TABLE								
PIPE	SIZE	LENGTH	FROM	TO	ELEV. IN	ELEV. OUT	MAX. COVER	% GRADE
P3-1	18"	28'	S3-1	S3-2	280.50	279.94	5.5	2.00%
P3-2	18"	175'	S3-3	S3-1	284.10	280.60	7.1	2.00%
P3-3	18"	204'	S4-1	S3-3	288.27	284.20	7.5	2.00%



SHEET NO.	TOTAL SHEETS	
F3	F9	
STATE	YEAR	
ALASKA	2013	
PROJECT DESIGNATION		
54601		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

7-16-2013

SPRUCED BROOK STREET

RENDON DRIVE

WINCHESTER STREET

KATLYARD STREET

BROWNING DRIVE

ELMORE ROAD

THIS SHEET

GEIRINHAS PLACE

STATE OF ALASKA

49TH

EDITH J.M. MCKEE

CE 12966

REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA

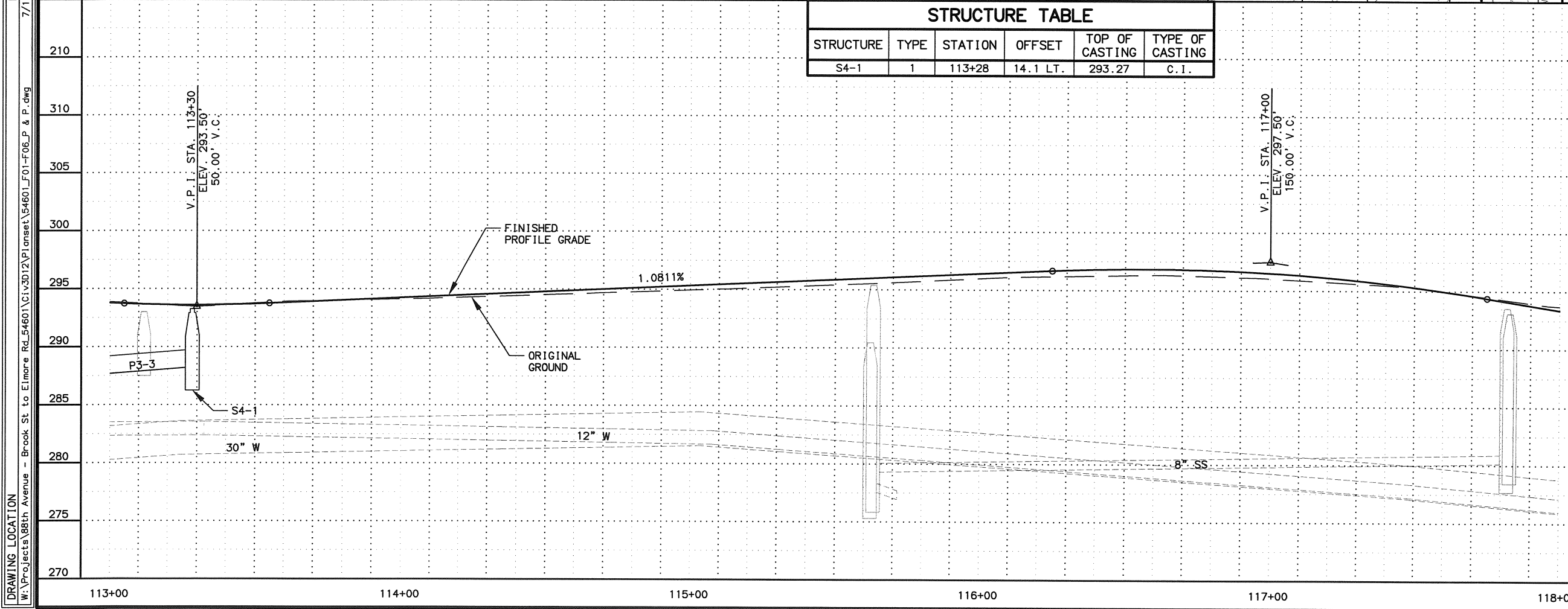
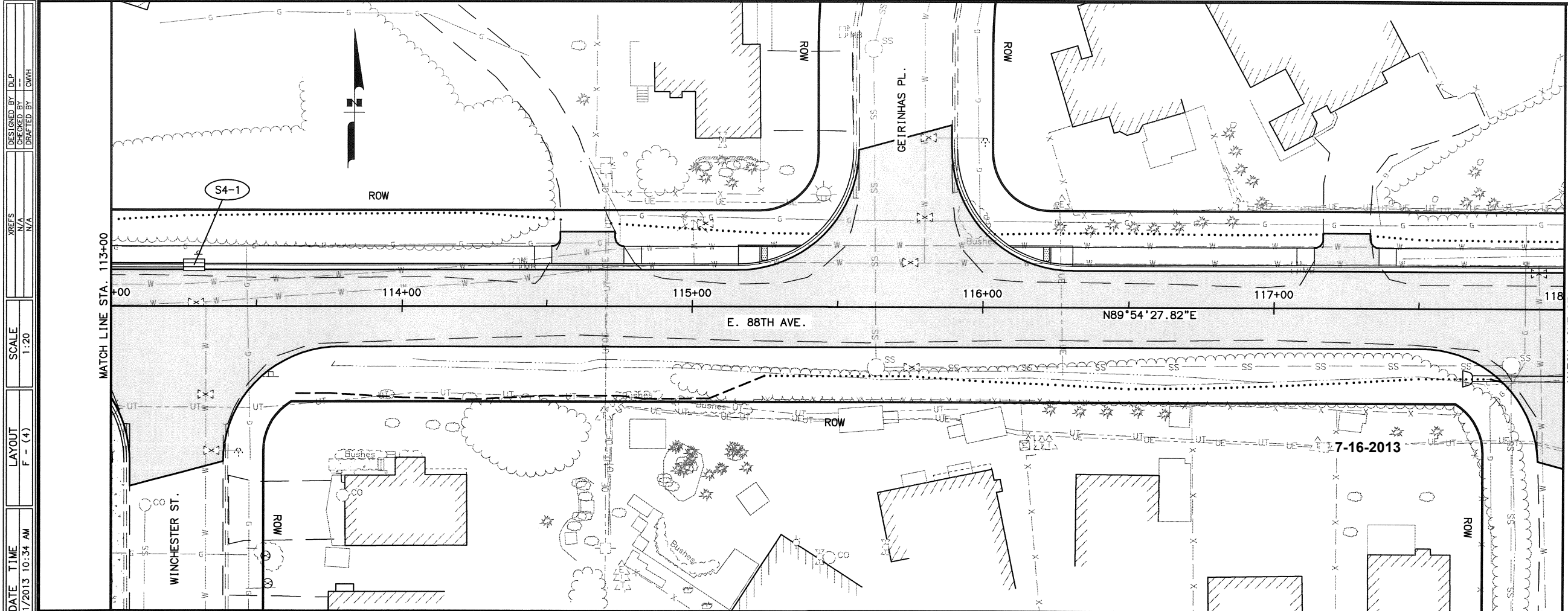
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

88TH AVE UPGRADE

SPRUCED BROOK ST TO ELMORE RD (GF)

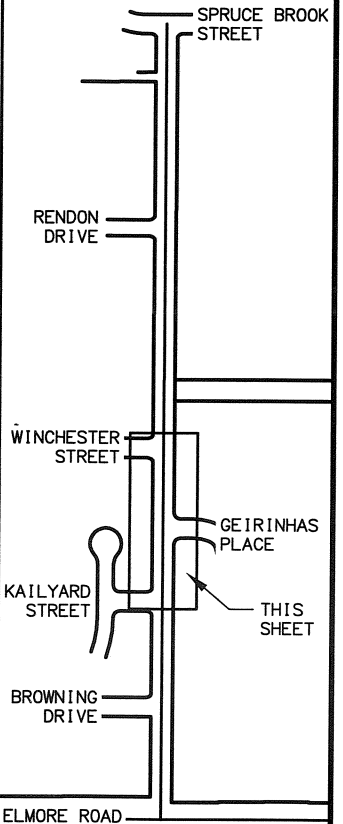
PLAN & PROFILE

STA. 108+00 TO STA.113+00



STRUCTURE TABLE					
STRUCTURE	TYPE	STATION	OFFSET	TOP OF CASTING	TYPE OF CASTING
S4-1	1	113+28	14.1 LT.	293.27	C.I.

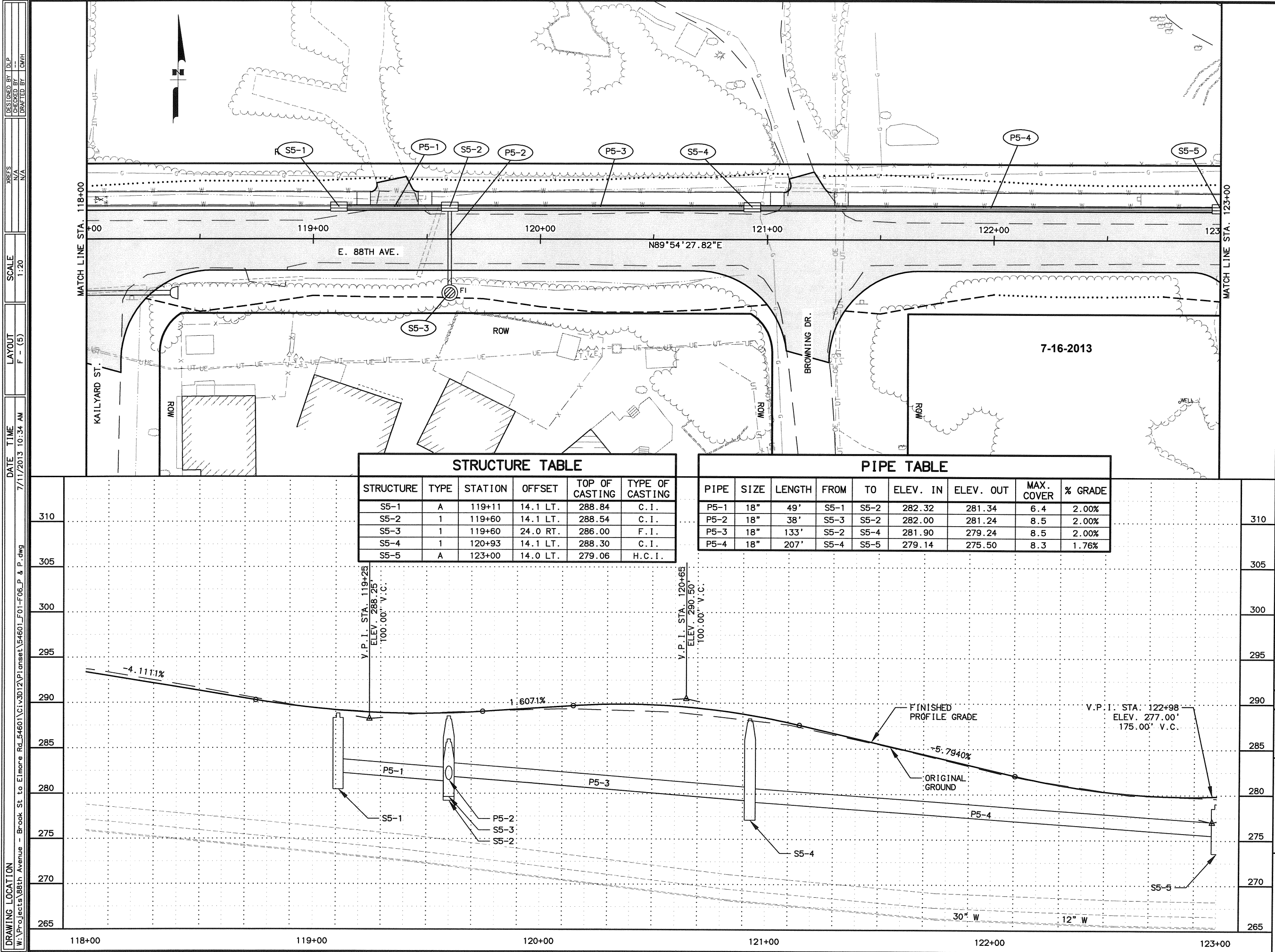
SHEET NO.		TOTAL SHEETS	
F4		F9	
STATE		YEAR	
ALASKA		2013	
PROJECT DESIGNATION			
54601			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	



STATE OF ALASKA
49TH
EDITH J.M. MCKEE
CE 12965
REGISTERED PROFESSIONAL ENGINEER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
88TH AVE UPGRADE
SPRUCE BROOK ST
TO ELMORE RD (GF)

PLAN & PROFILE
STA. 113+00 TO STA.118+00



SHEET NO.		TOTAL SHEETS	
F5		F9	
STATE		YEAR	
ALASKA		2013	
PROJECT DESIGNATION			
54601			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	

7-16-2013

SPRUCED BROOK STREET

RENDON DRIVE

WINCHESTER STREET

KAILYARD STREET

BROWNING DRIVE

ELMORE ROAD

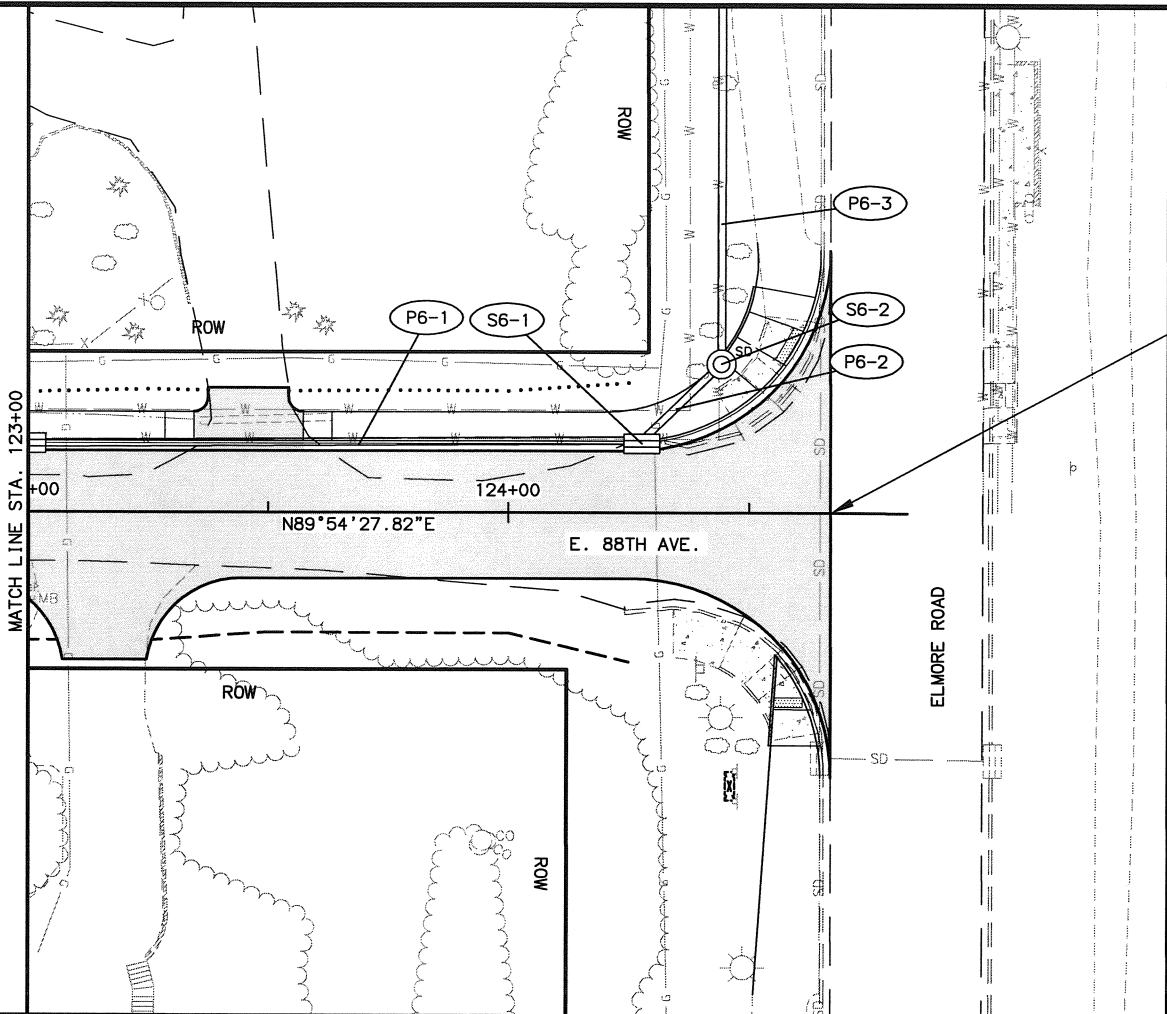
GEIRINHAS PLACE

THIS SHEET

STATE OF ALASKA
49th
EDITH J. W. MCKEE
REGISTERED PROFESSIONAL ENGINEER
CE 12966

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
88TH AVE UPGRADE
SPRUCED BROOK ST
TO ELMORE RD (GF)

PLAN & PROFILE
STA. 118+00 TO STA.123+00



EOP
STA. 124+67
MATCH EXISTING

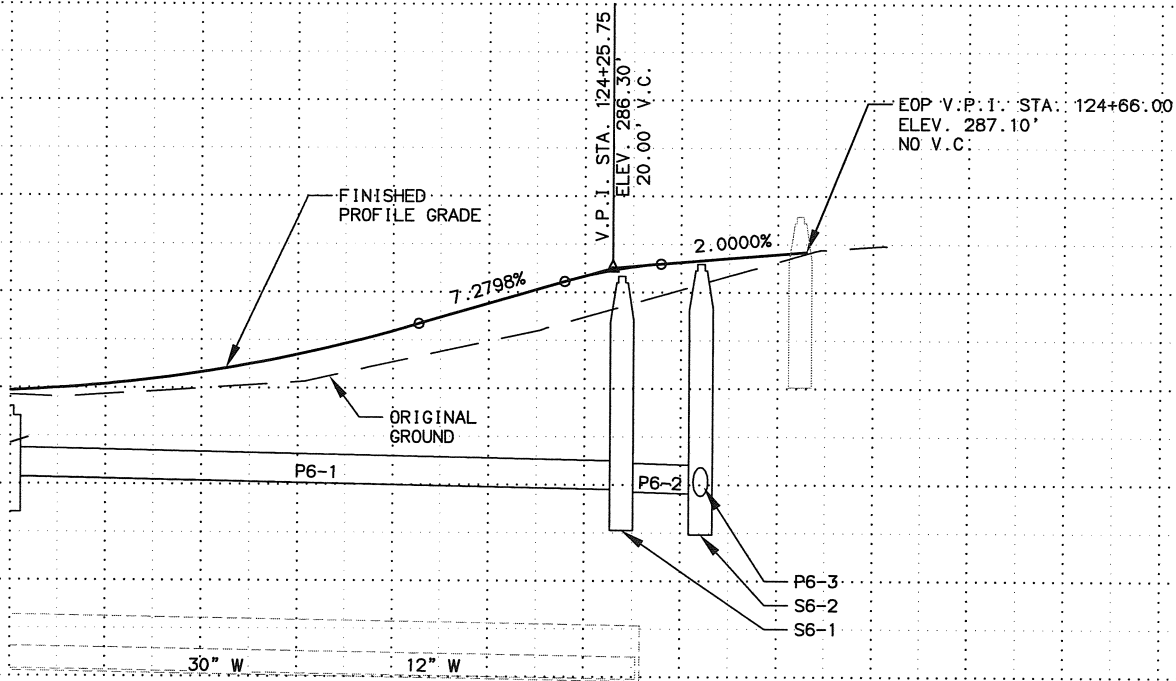
7-16-2013

STRUCTURE TABLE

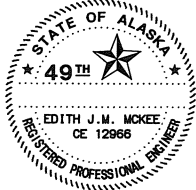
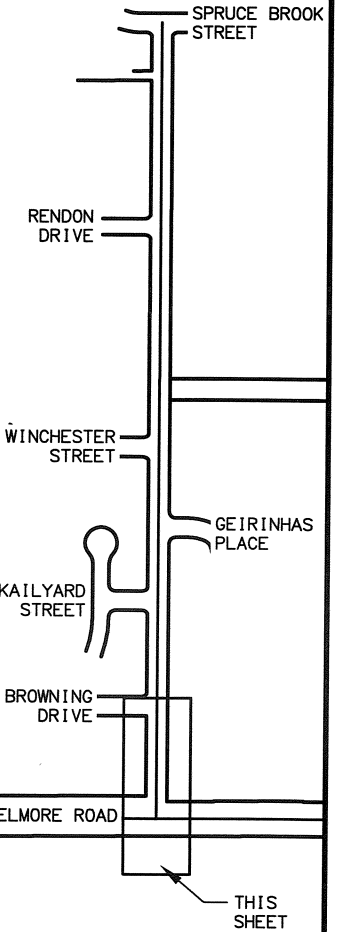
STRUCTURE	TYPE	STATION	OFFSET	TOP OF CASTING	TYPE OF CASTING
S6-1	1	124+28	14.1 LT.	285.86	C.I.
S6-2	1	124+44	30.6 LT.	286.50	M.H.

PIPE TABLE

PIPE	SIZE	LENGTH	FROM	TO	ELEV. IN	ELEV. OUT	MAX. COVER	% GRADE
P6-1	18"	128'	S5-5	S6-1	275.40	274.76	7.7	0.50%
P6-2	18"	23'	S6-1	S6-2	274.66	274.54	9.4	0.50%
P6-3	18"	241'	S6-2	-	274.44	273.24	9.9	0.50%



SHEET NO.		TOTAL SHEETS
F6		F9
STATE		YEAR
ALASKA		2013
PROJECT DESIGNATION		
54601		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
88TH AVE UPGRADE
SPRUCE BROOK ST
TO ELMORE RD (GF)

PLAN & PROFILE
STA. 123+00 TO STA.124+67

DESIGNED BY: DLP
CHECKED BY: N/A
DRAFTED BY: DLP

CREFS
N/A

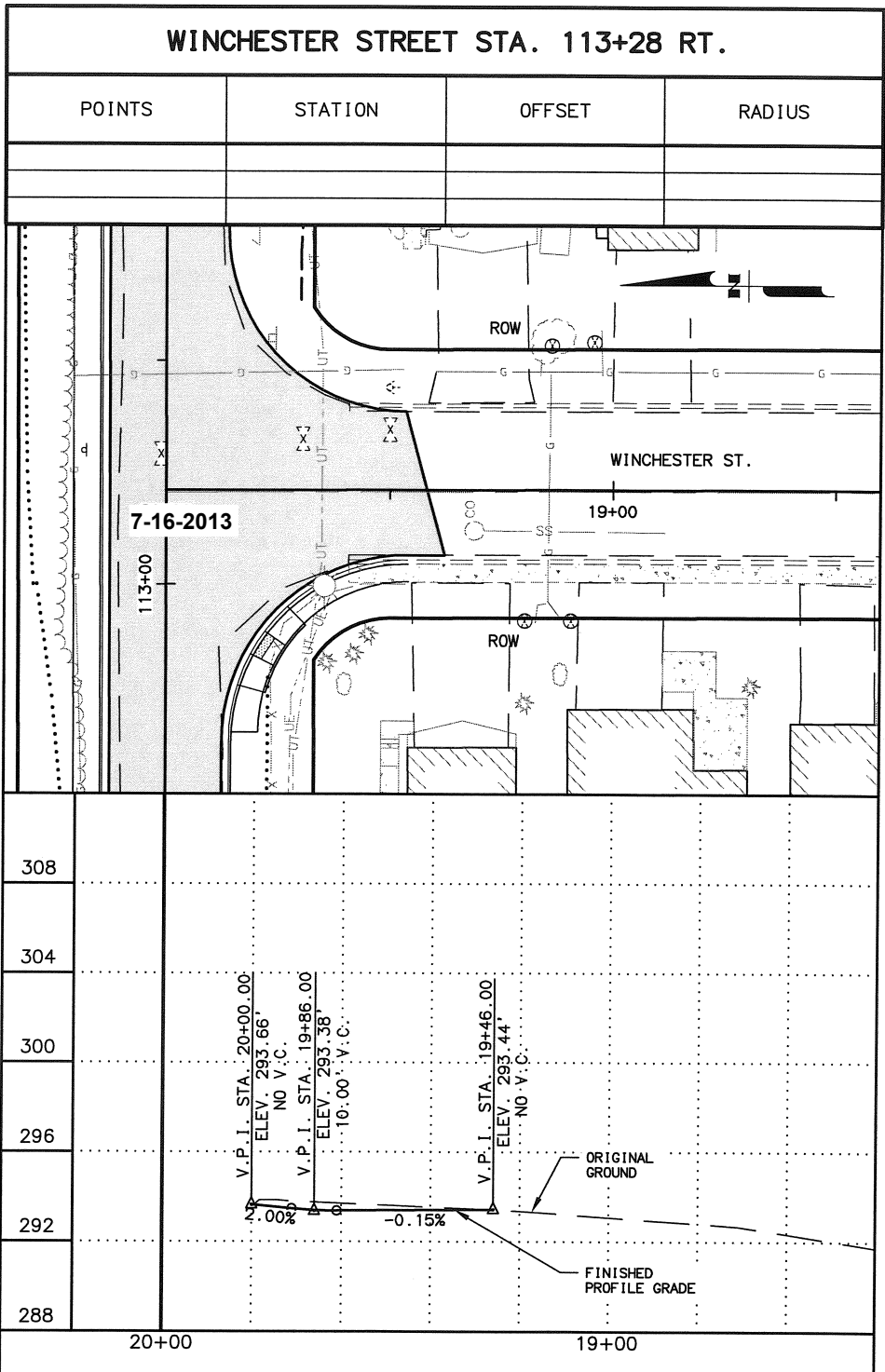
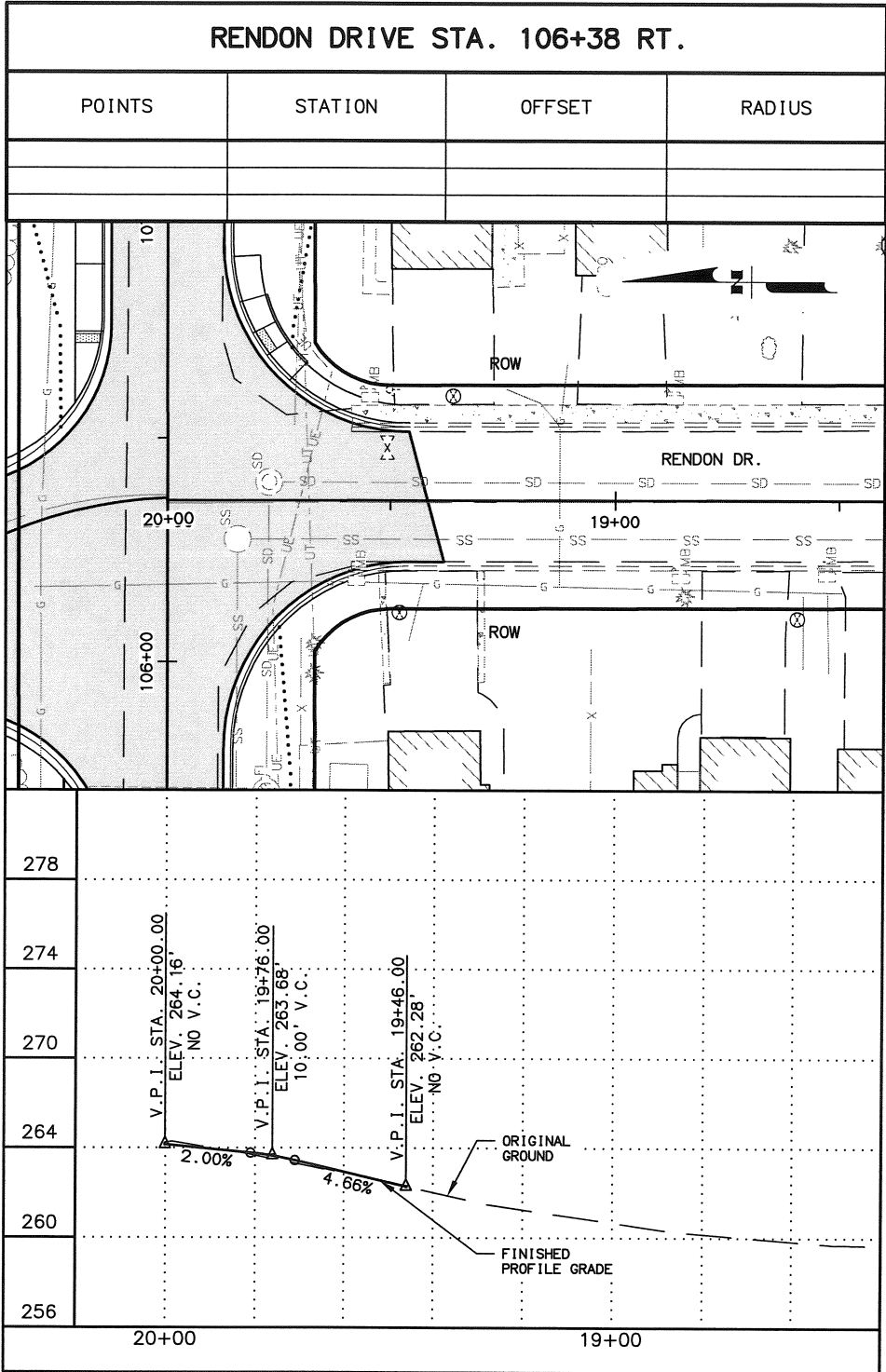
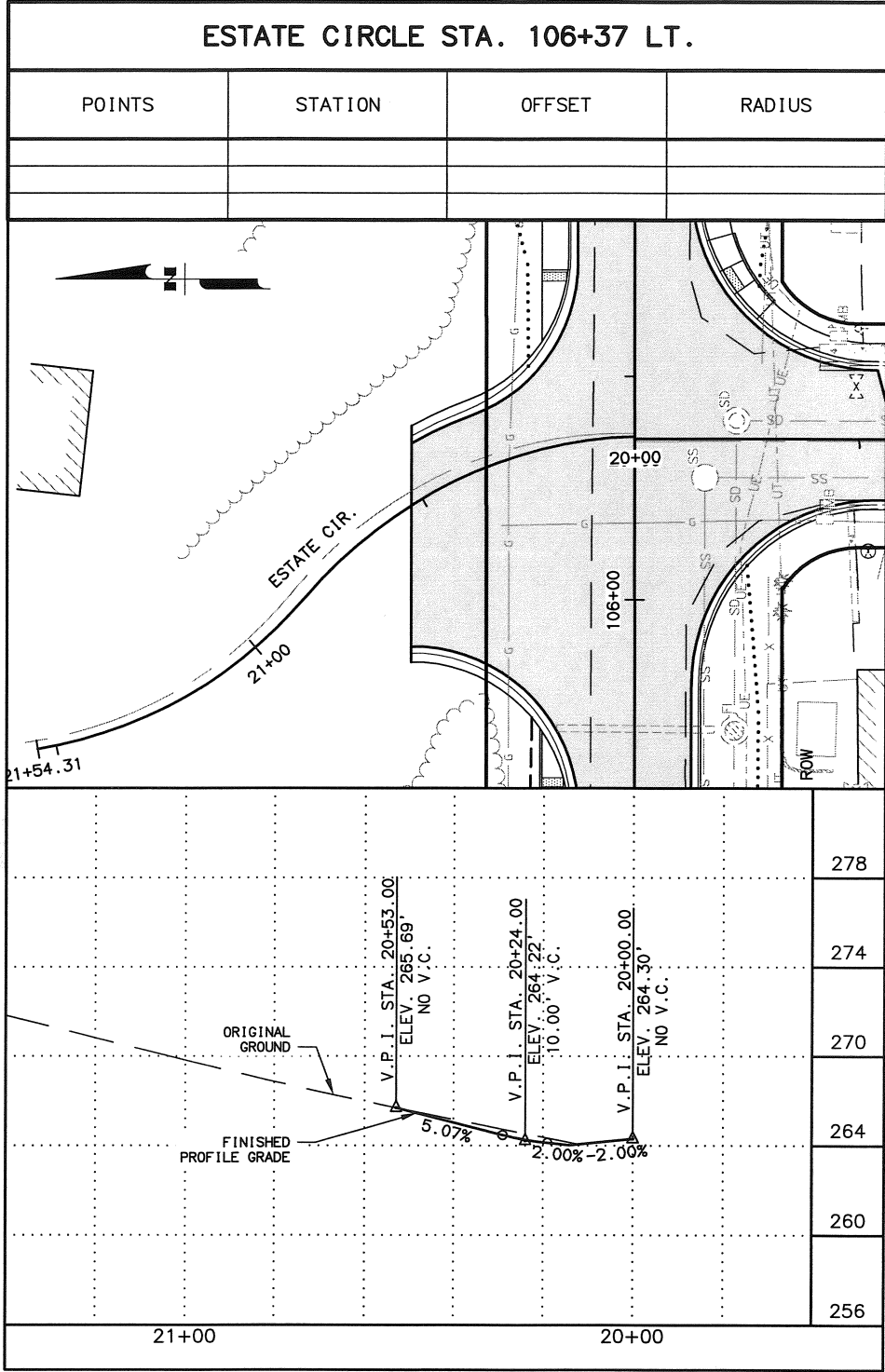
SCALE
N/A

LAYOUT
F7

DATE
TIME
7/11/2013 12:28 PM

DRAWING LOCATION
W:\Projects\88th Avenue - Brook St to Elmore Rd_54601\Civ3D12\PlanSet\54601_F07-F09_Side Streets.dwg

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	F7	F9



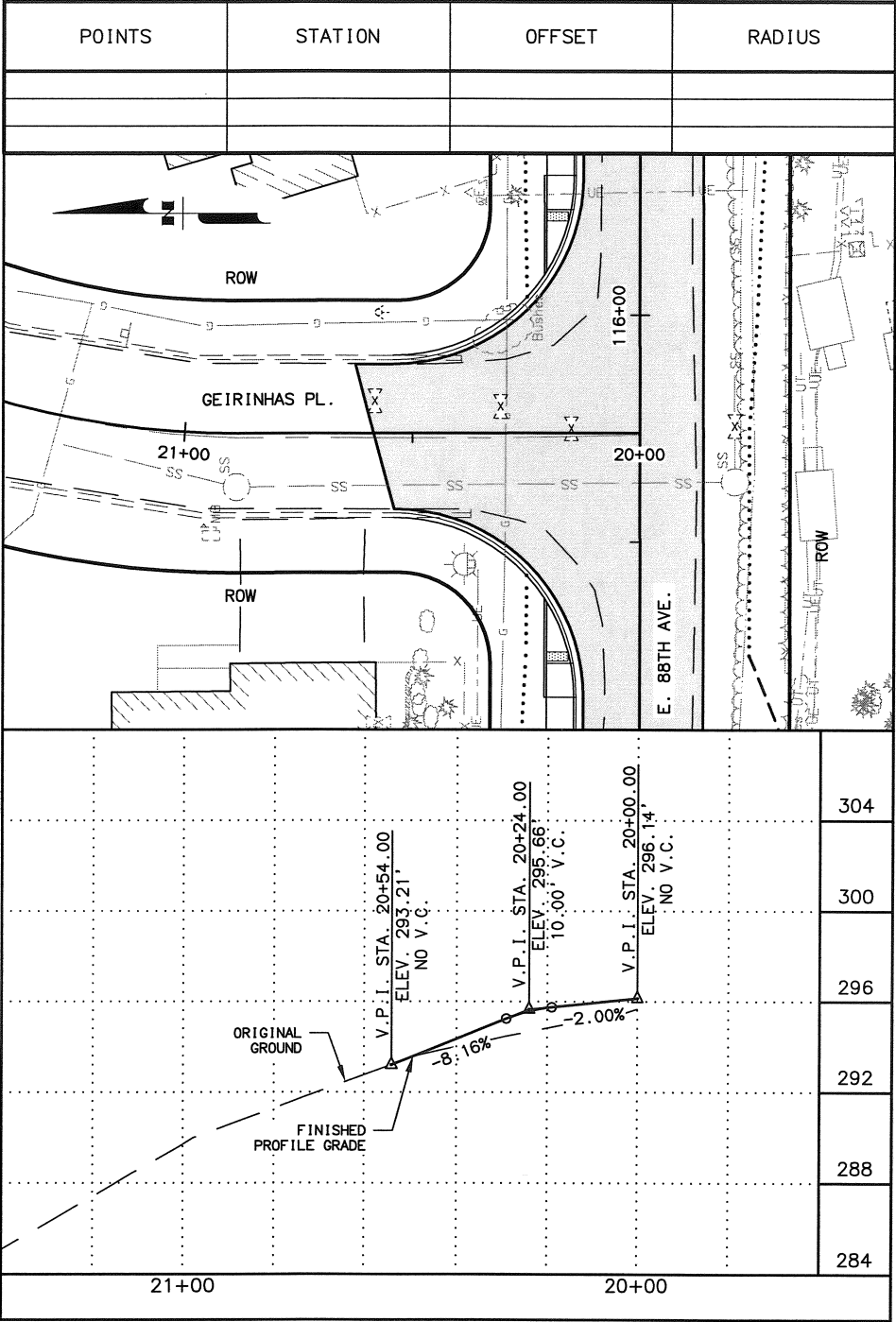
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
PUBLIC APPROACH DETAILS

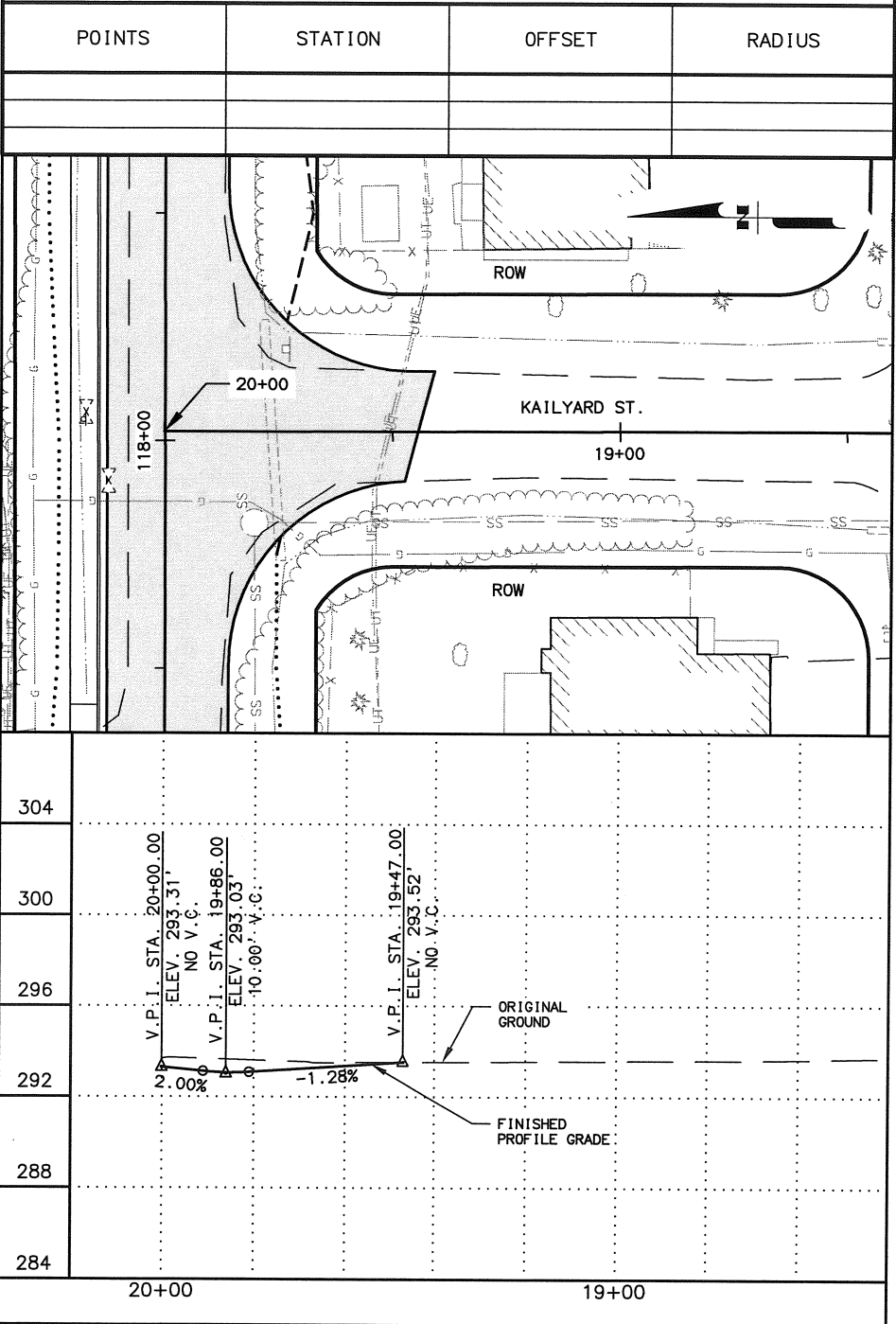
DRAWING LOCATION
W:\Projects\88th Avenue - Brook St to Elmore Rd_5460\Civ3D12\PlanSet\54601_F07-F09_Side Streets.dwg
DATE TIME
7/11/2013 12:28 PM
LAYOUT
F8
SCALE
N/A
XREFS
DESIGNED BY DLP
CHECKED BY N/A
DRAFTED BY DLP

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	F8	F9

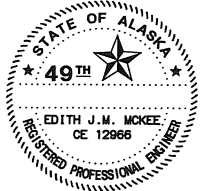
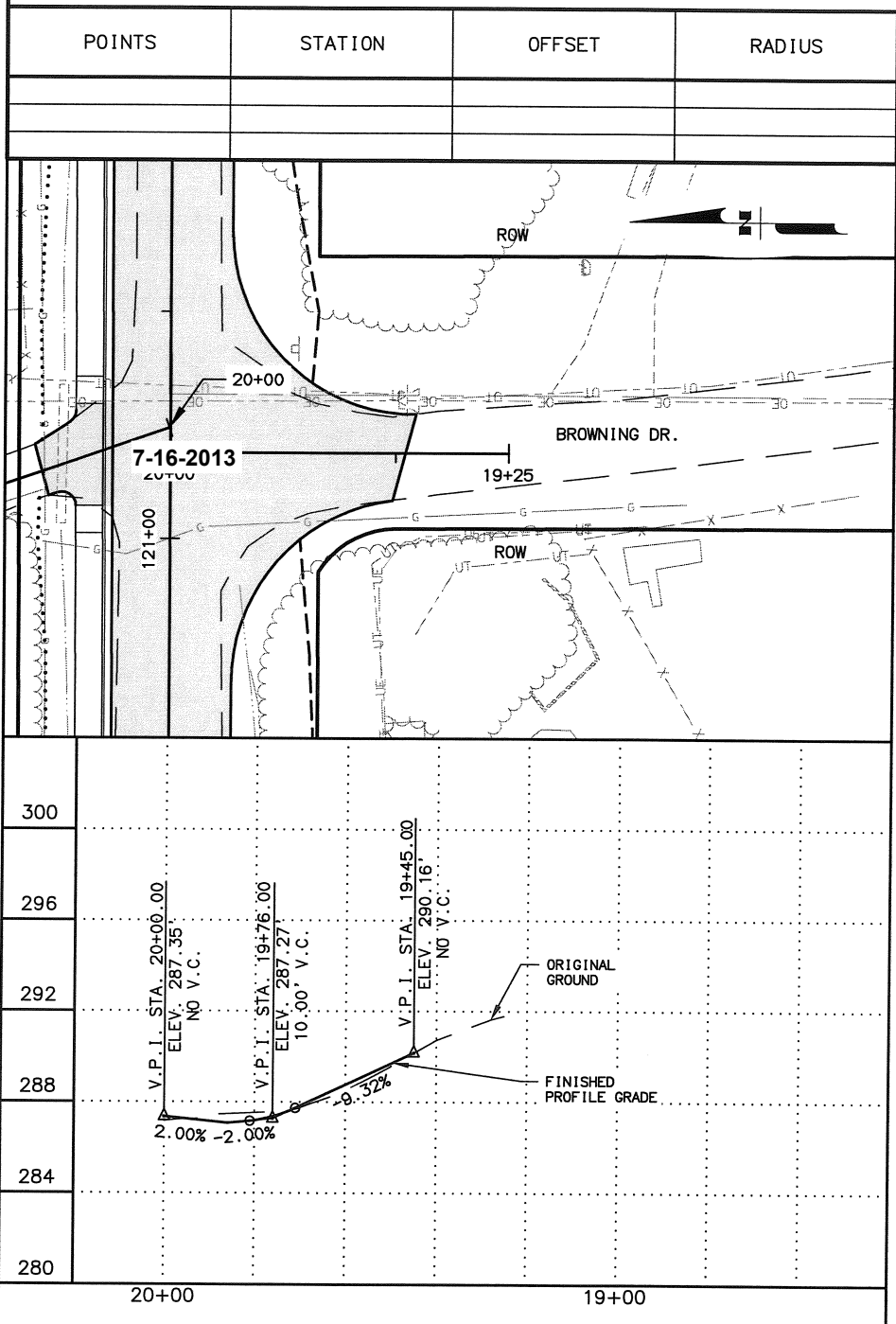
GEIRINHAS PLACE STA. 115+73 LT.



KAILYARD STREET STA. 118+02 RT.



BROWNING DRIVE STA. 121+16 RT.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
PUBLIC APPROACH DETAILS

DESIGNED BY: DLP
CHECKED BY: ---
DRAFTED BY: DLP

CREFS: N/A
N/A

SCALE: N/A

LAYOUT: F9

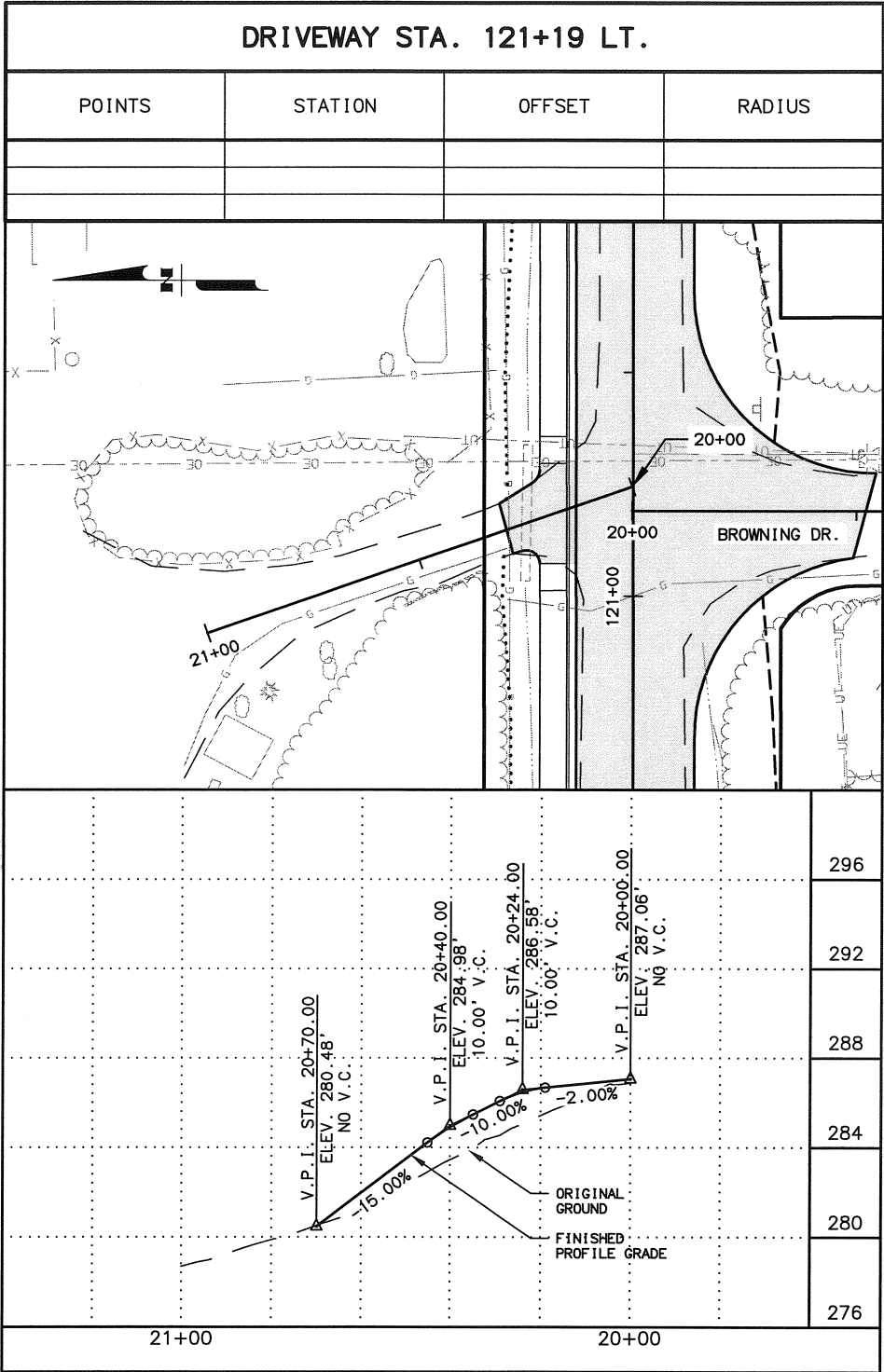
DATE: 7/11/2013 12:28 PM

TIME: 12:28 PM

W:\Projects\88th Avenue - Brook St to Elmore Rd\54601\Civ3D12\Plan\54601_F07-F09_Side Streets.dwg

DRAWING LOCATION

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	F9	F9



7-16-2013

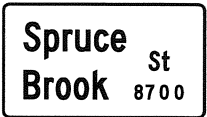
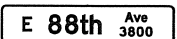


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
PUBLIC APPROACH DETAILS

DESIGNED BY DLP
CHECKED BY JWA
DATE 7/3/2013 2:22 PM
SCALE N/A
LAYOUT H 1
DATE 7/3/2013 2:22 PM
DRAWING LOCATION W:\Projects\88th Avenue - Brook St to Elmore Rd_54601\Civil\3D12\Plan\set\54601_H01-H02_Signing.dwg

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	H1	H5

SIGN SUMMARY													
SHEET	POST NO.	STATION	CL. REF	TYPE	LEGEND	SIZE (IN)		AREA (SQ. FT.)	SIGN FACES	POSTS: NO. SIZE & TYPE	FRAMED?		REMARKS
						WIDTH (IN)	HEIGHT (IN)				YES	NO	
F1	1	100+37	LT.	D3-1D		36	8	4.00	N/S	1-2.5" PT	X		INSTALL TWO SIGNS BACK TO BACK BLOCK NO. 3800
				D3-1		42	24	7.00	E/W		X		INSTALL TWO SIGNS BACK TO BACK BLOCK NO. 8700
				R1-1		30	30	6.25	E			X	
F1	2	102+98	RT.	R2-1		24	30	5.00	W	1-2.5" PT		X	
F2	3	106+03	LT.	D3-1D		36	8	4.00	N/S	1-2.5" PT	X		INSTALL TWO SIGNS BACK TO BACK BLOCK NO. 3800
				D3-1D	ESTATES CIR		12		E/W	1-2.5" PT	X		INSTALL TWO SIGNS BACK TO BACK BLOCK NO.
				R1-1		30	30	6.25	N			X	
F2	4	106+62	RT.	D3-1D		36	8	4.00	N/S	1-2.5" PT	X		INSTALL TWO SIGNS BACK TO BACK BLOCK NO. 3600
				D3-1D		48	12	8.00	E/W		X		INSTALL TWO SIGNS BACK TO BACK BLOCK NO. 8800
				R1-1		30	30	6.25	S				X
F2	5	106+62	RT.	SPECIAL	NEIGHBORHOOD WATCH				N				REMOVE & REINSTALL
F3	6	113+00	RT.	SPECIAL	NEIGHBORHOOD WATCH				N				REMOVE & REINSTALL
F4	7	113+54	RT.	D3-1D		36	8	4.00	N/S	1-2.5" PT	X		INSTALL TWO SIGNS BACK TO BACK BLOCK NO. 3800
				D3-1D		48	12	8.00	E/W		X		INSTALL TWO SIGNS BACK TO BACK BLOCK NO. 8800
				R1-1		30	30	6.25	S				X

7-16-2013



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
SIGNING SUMMARY

DESIGNED BY DLP
CHECKED BY JCH
DRAFTED BY CMW

XREFS
N/A

SCALE
N/A

LAYOUT
H 2

DATE TIME
7/3/2013 2:22 PM

DRAWING LOCATION
W:\Projects\88th Avenue - Brook St. to Elmore Rd_54601\C1v3D12\PlanSet\54601_H01-H02_Signing.dwg

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	H2	H5

SIGN SUMMARY													
SHEET	POST NO.	STATION	CL. REF	TYPE	LEGEND	SIZE (IN)		AREA (SQ. FT.)	SIGN FACES	POSTS: NO. SIZE & TYPE	FRAMED?		REMARKS
						WIDTH (IN)	HEIGHT (IN)				YES	NO	
F4	8	115+44	LT.	D3-1D	E 88th Ave 3900	36	8	4.00	N/S	LIGHT POLE	X		INSTALL TWO SIGNS BACK TO BACK BLOCK NO. 3900
				D3-1D	Geirinhas P I 8700	48	12	8.00	E/W		X		INSTALL TWO SIGNS BACK TO BACK BLOCK NO. 8700
				R1-1	STOP	30.0	30.0	6.25	N			X	
F5	9	118+19	RT.	D3-1D	E 88th Ave 4000	36	8	4.00	N/S	1-2.5" PT	X		INSTALL TWO SIGNS BACK TO BACK BLOCK NO. 4000
				D3-1D	Kailyard St 4000	48	12	8.00	E/W		X		INSTALL TWO SIGNS BACK TO BACK BLOCK NO. 4000
				W14-2PR	NO OUTLET➡	36	8	2.00	W		X		
				W14-2PL	←NO OUTLET	36	8	2.00	E		X		
				R1-1	STOP	30.0	30.0	6.25	S			X	
F5	10	121+41	RT.	D3-1D	E 88th Ave 4000	36	8	4.00	N/S	1-2.5" PT	X		INSTALL TWO SIGNS BACK TO BACK BLOCK NO. 4000
				D3-1D	Browning Dr 8800	48	12	8.00	E/W		X		INSTALL TWO SIGNS BACK TO BACK BLOCK NO. 8800
				R1-1	STOP	30.0	30.0	6.25	S			X	
F5	11	122+65	LT.	R2-1	SPEED LIMIT 25	24	30	5.00	E	1-2.5" PT		X	
F6	12	124+39	RT.	D3-1A	4100 E 88th Av	36	12	6.00	N/S	1-2.5" PT	X		INSTALL TWO SIGNS BACK TO BACK BLOCK NO. 4100
				D3-1D	Elmore Rd 3100	36	8	4.00	E/W		X		INSTALL TWO SIGNS BACK TO BACK BLOCK NO. 3100
				R1-1	STOP	30.0	30.0	6.25	W			X	
TOTAL SQ. FT.						149.00							

7-16-2013



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
SIGNING SUMMARY

DESIGNED BY DLP
CHECKED BY MF
DRAFTED BY

REFS
N/A
N/A

SCALE
N/A

LAYOUT
H 3

DATE TIME
7/3/2013 2:22 PM

DRAWING LOCATION
W:\Projects\88th Avenue - Brook St. to Elmore Rd_54601\Civ3D12\PlanSet\54601_H01-H02_Signing.dwg

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	H3	H5

615(2)

REMOVE & RELOCATE EXISTING SIGN SUMMARY				
SHEET	STATION	CL. REF	LEGEND	REMARKS
F2	106+62	RT.	NEIGHBORHOOD WATCH	REMOVE AND RELOCATE TO NEW POST
F3	113+00	RT.	NEIGHBORHOOD WATCH	REMOVE AND RELOCATE TO NEW POST

615(6)

SALVAGE SIGN SUMMARY				
SHEET	STATION	CL. REF	LEGEND	REMARKS
F1	100+37	LT.	E 88TH AV 3800	
			SPRUCE BROOK ST 8700	
			STOP	
F1	102+98	RT.	SPEED LIMIT 25	
F2	106+03	LT.	E 88TH AV 3800	
			ESTATES CIR	
			STOP	
F2	106+62	RT.	E 88TH AV 3600	
			RENDON DR 8800	
			STOP	
F2	106+62	RT.	SNOW ROUTE	
F3	111+87	LT.	SNOW ROUTE	
F4	113+54	RT.	E 88TH AV 3800	
			WINCHESTER ST 8700	
			STOP	
F4	115+44	LT.	E 88TH AV 3900	
			GEIRINHAS PL 8700	
			STOP	
F5	118+19	RT.	E 88TH AV 4000	
			KAILYARD ST 4000	
			NO OUTLET RT. ARROW	
			NO OUTLET LT. ARROW	
F5	121+41	RT.	STOP	
			E 88TH AV 4000	
			BROWNING DR 8800	
F5	122+65	LT.	STOP	
			SPEED LIMIT 25	
			4100 E 88TH AV	
F6	124+39	RT.	ELMORE RD 3100	
			STOP	

7-16-2013

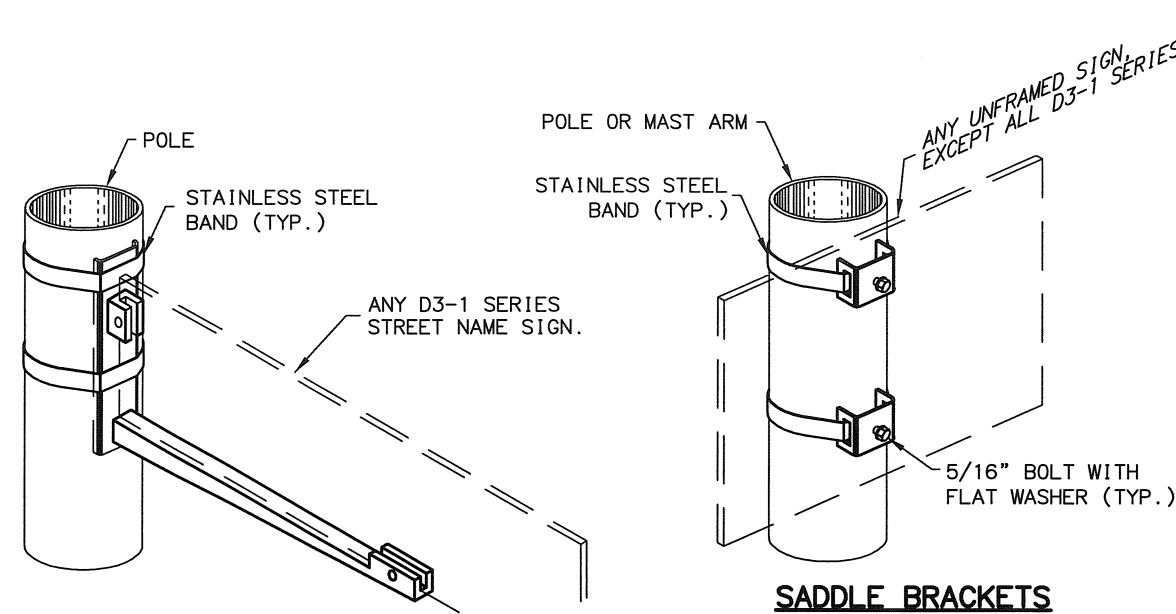


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

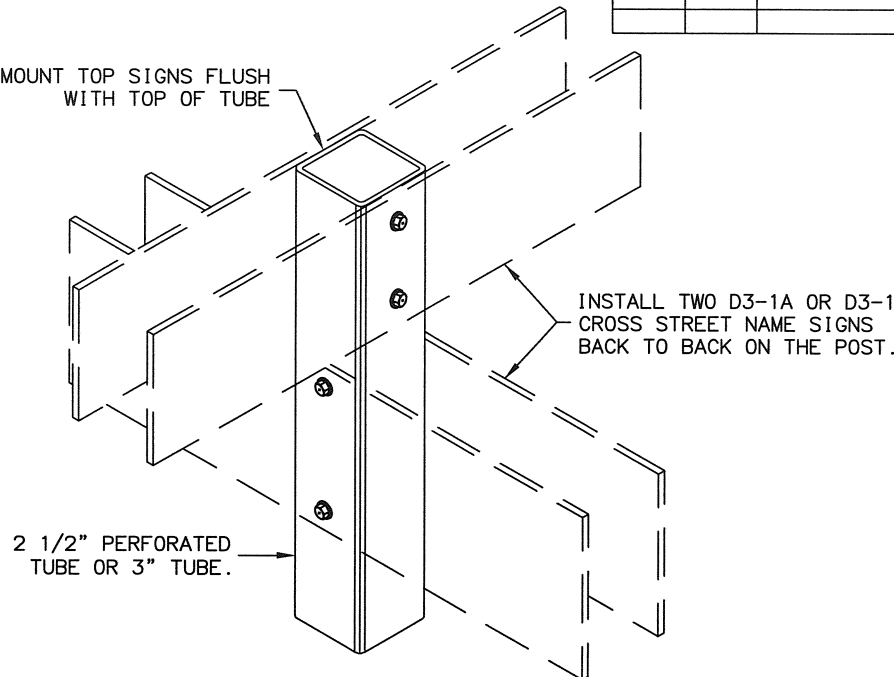
88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
SIGNING SUMMARY

DESIGNED BY DLP
CHECKED BY JVA
DRAWN BY JWH
SCALE N/A
LAYOUT SIGN ATTACHMENT
DATE TIME 7/3/2013 2:24 PM
W:\Projects\88th Avenue - Brook St to Elmore Rd\54601\Drawings\54601_H08-09_Att_Details.dwg
DRAWING LOCATION

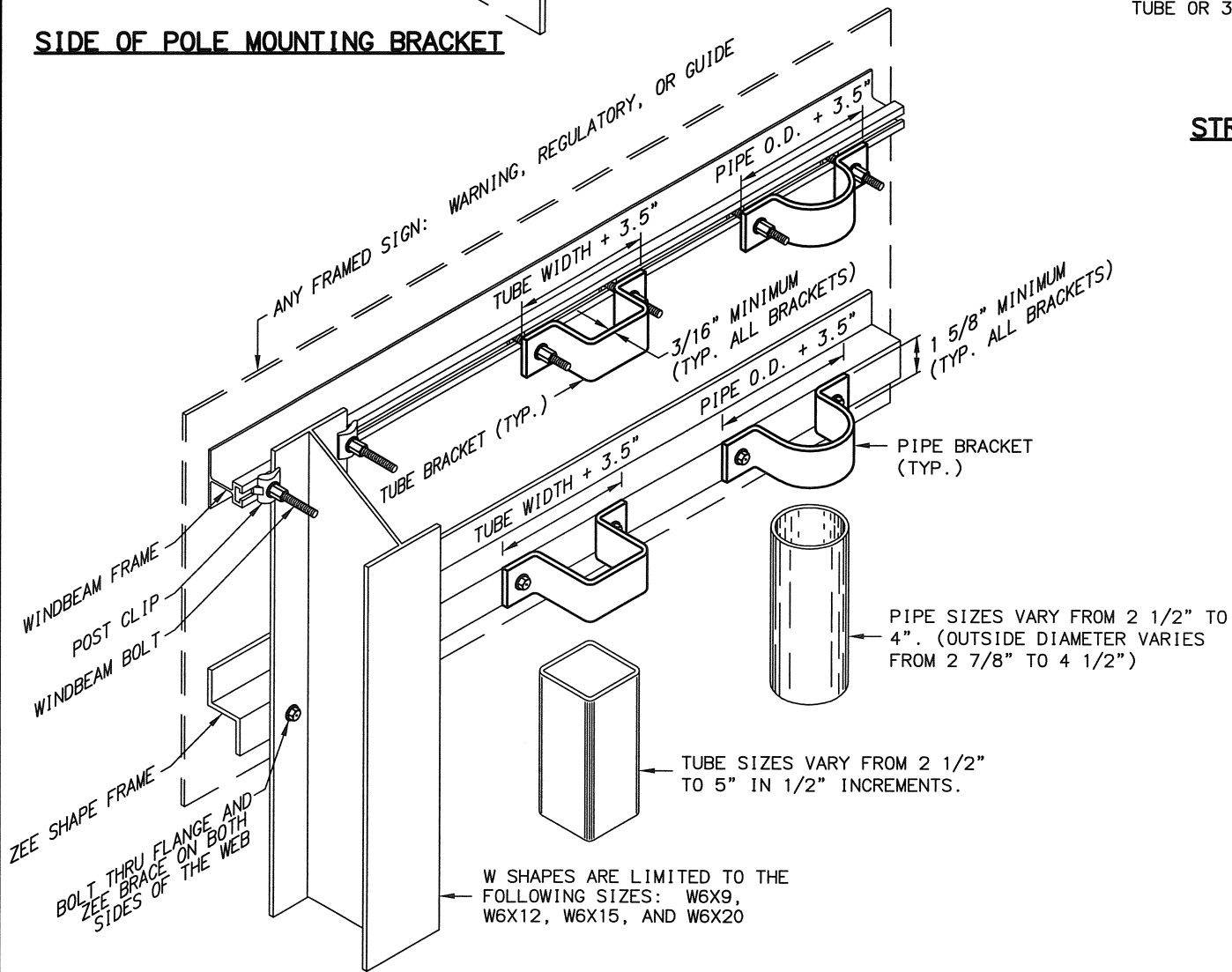
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	H4	H5



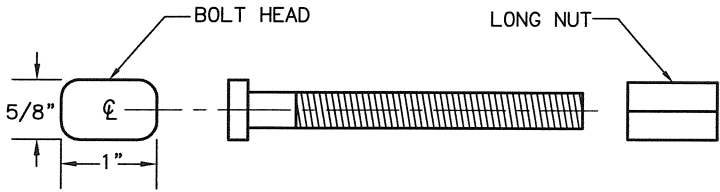
SIDE OF POLE MOUNTING BRACKET



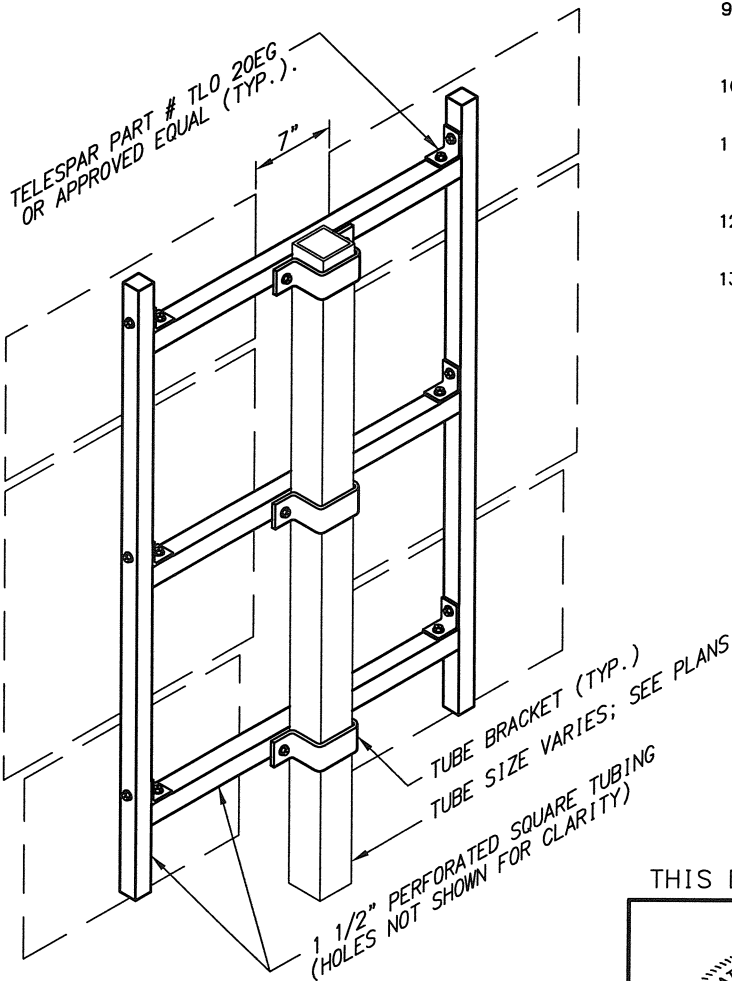
STREET NAME SIGN INSTALLATION



FRAMED SIGN ATTACHMENT BRACKETS



3/8\"/>



ROUTE MARKER TREE

NOTES:

- EXCEPT FOR POLES AND MAST ARMS, ONLY USE TUBES TO SUPPORT SIGNS MOUNTED ON ONE POST.
- ATTACH ALL SIGNS, FRAMED AND UNFRAMED TO THEIR SUPPORTS WITH ZINC PLATED 3/8\"/>

- 7-16-2013
- ONLY USE THE SPECIAL WINDBEAM BOLTS TO ATTACH SIGNS FRAMED WITH THE WINDBEAM FRAMING MATERIAL.
 - ATTACH FRAMED SIGNS TO POLES AND MAST ARMS USING POLE PLATES INSTALLED ACCORDING TO STANDARD DRAWING S-23.00
 - FOR ROUTE MARKER TREES, CUT PERFORATED TUBES TO ENSURE TIGHT FITTING JOINTS. ASSEMBLE THE PIECES WITH ACCESSORY ELL-SHAPED ANGLE BRACKETS.
 - INSTALL THE TOP EDGE OF SIGNS 1\"/>

FASTENER SPECIFICATION TABLE			
FASTENERS		STEEL	STAINLESS STEEL
BOLTS	REGULAR	ASTM A 307	ASTM F 593
	LOCK	ASTM A 563	ASTM F 594
WASHERS		ASTM A 36	ASTM A 480
POST CLIPS			

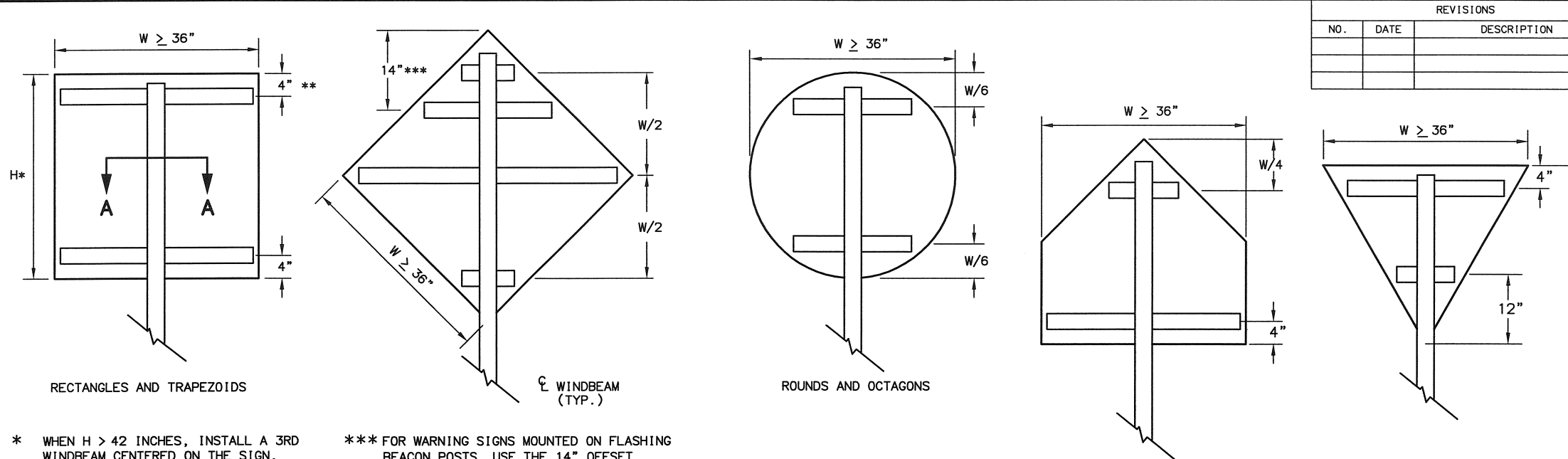
THIS DRAWING SUPERSEDES STANDARD DRAWING S-20.10



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

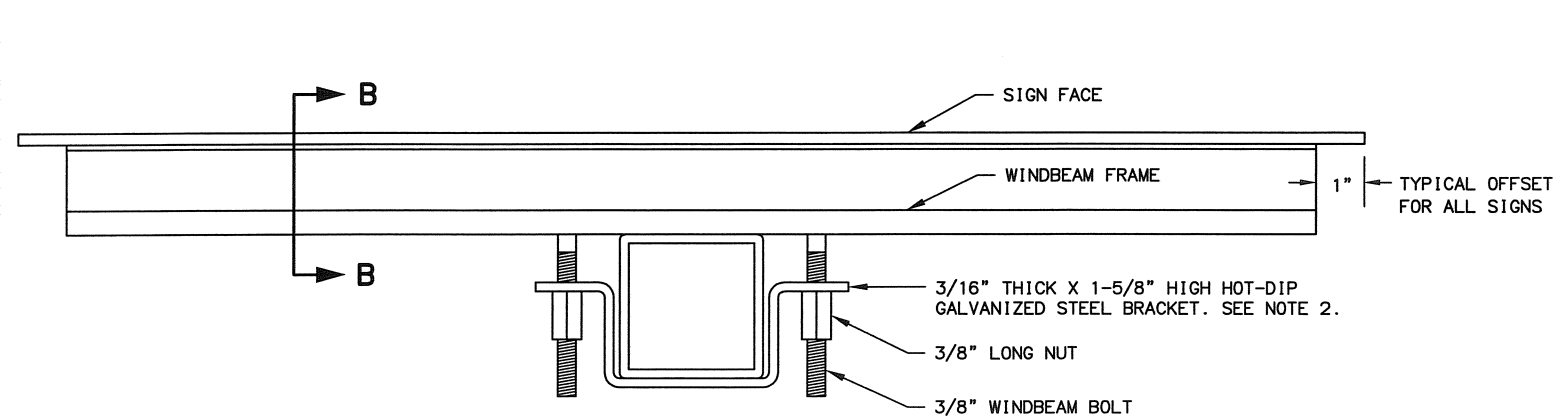
88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
SIGN ATTACHMENT DETAILS

DESIGNED BY DLP
CHECKED BY LWH
DRAWN BY LWH
SCALE N/A
LAYOUT LIGHT SIGN FRAME
DATE TIME 7/3/2013 2:24 PM
W:\Projects\88th Avenue - Brook St to Elmore Rd_54601\Civil\3D12\Plans\54601_H08-09_Att_Details.dwg
DRAWING LOCATION

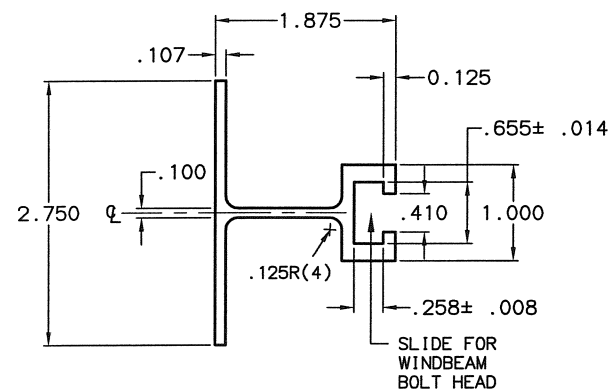


- * WHEN $H > 42$ INCHES, INSTALL A 3RD WINDBEAM CENTERED ON THE SIGN.
- ** FOR S5-1 SIGNS MOUNTED ON FLASHING BEACON POSTS, USE A 10" OFFSET. OTHERWISE, USE 4".
- *** FOR WARNING SIGNS MOUNTED ON FLASHING BEACON POSTS, USE THE 14" OFFSET. OTHERWISE, USE $W/2$.

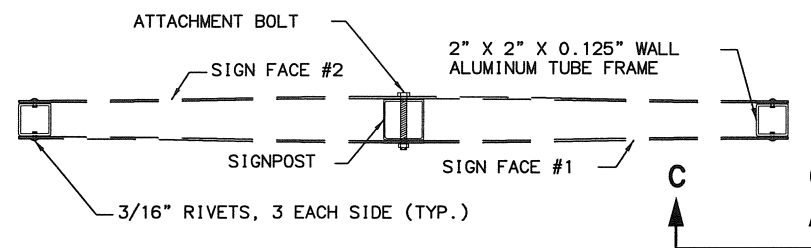
WINDBEAM LOCATIONS FOR EACH SIGN SHAPE
ELEVATION VIEW



SECTION A - A TYPICAL SIGN ATTACHMENT DETAILS AT EACH WINDBEAM

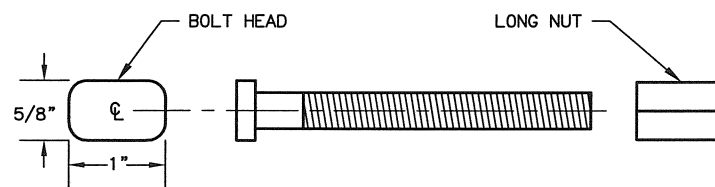


SECTION B - B WINDBEAM CROSS SECTION



D3-1*, D3-1A, D3-1D* STREET NAME SIGN FRAMING DETAIL

*THOSE WITH 6-INCH LETTERING ONLY
PLAN VIEW



3/8" WINDBEAM BOLT AND LONG NUT

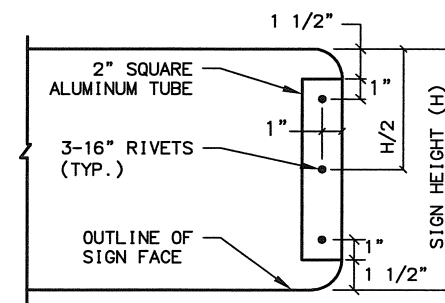
REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	PROJECT NO. 54601	2013	H5	H5

NOTES:

- EXCEPT FOR POLES AND MAST ARMS, ONLY USE SQUARE STEEL TUBES TO SUPPORT SIGNS MOUNTED ON SINGLE POSTS.
- INSTALL WINDBEAM OR ZEE SHAPED FRAMING MEMBERS ON ALL DIAMOND SHAPED SIGNS 36 INCHES AND LONGER ON A SIDE AND ON ALL OTHER SIGNS 36 INCHES WIDE AND WIDER.
- IN HIGH WIND AREAS, THE PLANS MAY REQUIRE SIGNS SMALLER THAN THOSE LISTED IN NOTE 2 BE FRAMED AS SHOWN HEREON.
- 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.
- 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 POST.
- USE FRAMING MEMBERS MADE FROM ALUMINUM ALLOY 6061-T6.
- EACH FRAMING MEMBER SHALL BE ONE CONTINUOUS PIECE.
- ATTACH FRAMING MEMBERS TO THE SIGN PANELS WITH RIVETS OR AN ENGINEER APPROVED, DOUBLE SIDED, HIGH STRENGTH, ADHESIVE TAPE.
- 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:
 - THE CLEANING AND HANDLING OF THE SIGN PANELS AND FRAMING MEMBERS.
 - THE APPLICATION OF THE ADHESIVE TAPE.
- WHEN RIVETS ARE USED TO ATTACH FRAMING MEMBERS, INSTALL 2 RIVETS IN EACH END AND THE BALANCE ON 8" MAXIMUM CENTERS.
- USE 3/16" DIAMETER RIVETS CONFORMING TO ALUMINUM ALLOY 6061-T6 FOR COLD DRIVEN RIVETS, OR ALUMINUM ALLOY 6061-T43 FOR HOT DRIVEN RIVETS.
- THE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.

7-16-2013



VIEW C - C

THESE DETAILS SUPERSEDE THE LIGHT SIGN FRAMING DETAILS ONLY ON STANDARD DRAWING S-00.10 AND SUPERSEDES STANDARD DRAWING S-01.00 IN ITS ENTIRETY.



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)
SIGN ATTACHMENT DETAILS

DRAWING LOCATION
W:\Projects\88th Avenue - Brook St to Elmore Rd_54601\Civ3D12\Planset\54601_101_Landscaping.dwg

DATE
7/1/2013 12:32 PM

LAYOUT
LAYOUT1

SCALE
N/A

XREFS
N/A
N/A

DESIGNED BY
DLP

CHECKED BY

DRAFTED BY
DLP

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	PROJECT NO. 54601	2013	L1	L1

7-16-2013

RESERVED FOR LANDSCAPING SHEET



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

88TH AVE UPGRADE,
SPRUCE BROOK ST
TO ELMORE RD (GF)

LANDSCAPING SHEET