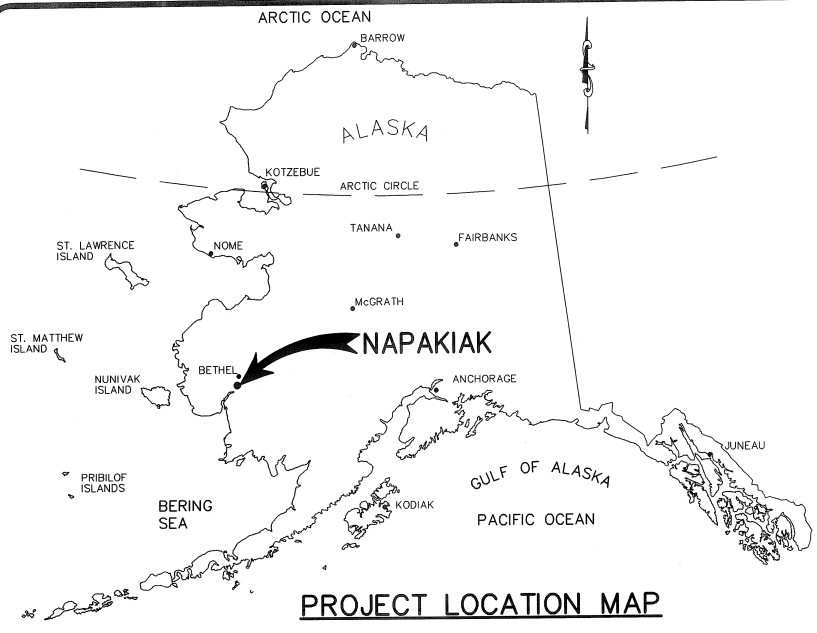
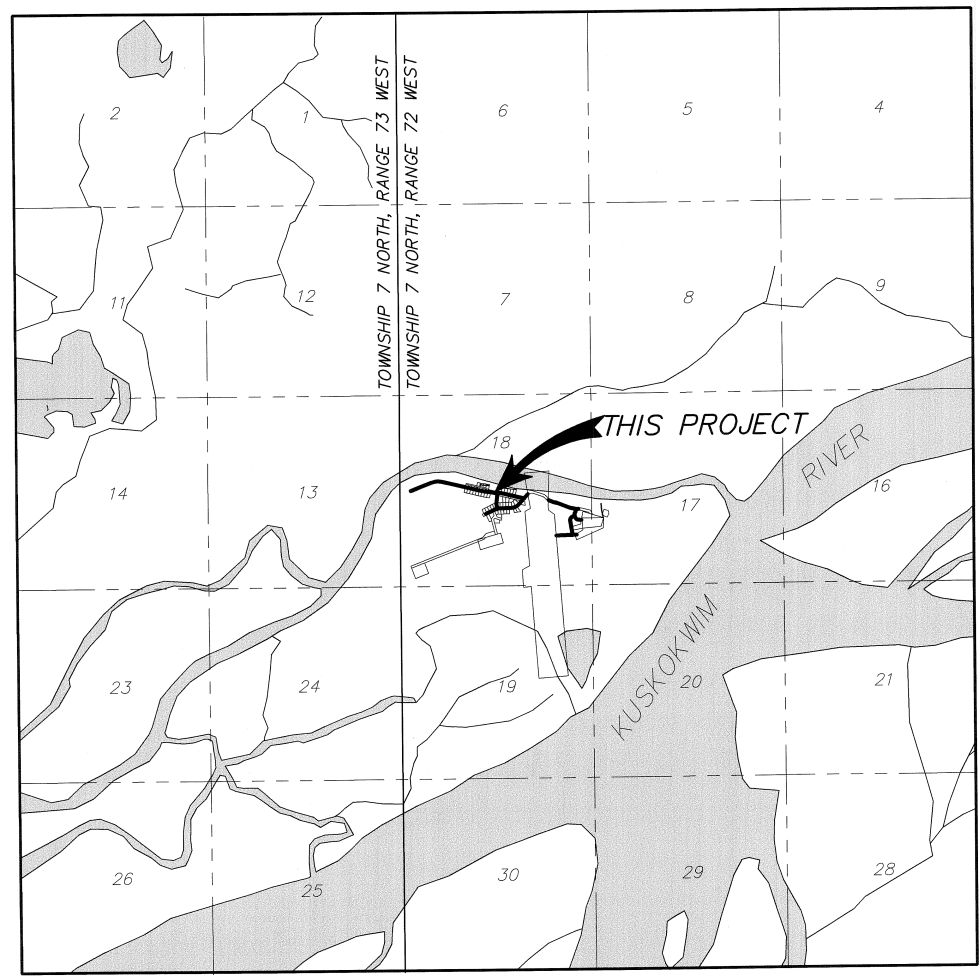


NAPAKIAK COMMUNITY STREETS IMPROVEMENTS

ASSOCIATION OF VILLAGE COUNCIL PRESIDENTS NAPAKIAK, ALASKA



INDEX OF SHEETS	
A	GENERAL INFORMATION
A.1	TITLE SHEET
A.2	LEGEND, ABBREVIATIONS, GENERAL NOTES
A.3	KEY MAP
B	SURVEY CONTROL
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B.2	SURVEY CONTROL MONUMENTATION AND POINT TABLES
B.3	PI DIAGRAM AND TANGENT TABLE
C	SUMMARY TABLES
C.1	SIGNAGE SUMMARY, SUMMARY OF QUANTITIES AND CULVERT TABLE
C.2	DRIVEWAY TABLE AND DRIVEWAY DETAIL
D	TYPICAL SECTIONS / DETAILS
D.1	ROADWAY DETAIL AND ROADWAY DITCH DETAIL
E	INTERSECTION AND PARKING LOT DETAILS
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J	PERMANENT TRAFFIC CONTROL
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L	PLAN / PROFILES
L.1-L.7	PLAN / PROFILE



APPROXIMATE SCALE: 1" = 1/2 MILE
SOURCE MAPS: USGS QUADRANGLES
BETHEL (C-8), BAIRD INLET (C-1) ALASKA

DESIGN DATA	
MAXIMUM GRADIENT	7%
DESIGN SPEED	15 MPH
MINIMUM RADIUS CURVE	42'
STOPPING SIGHT DISTANCE	80'
MAXIMUM SUPERELEVATION RATE	4%
DESIGN STRUCTURAL LOADING	HS-20

SPECIFICATIONS:
ASSOCIATION OF VILLAGE COUNCIL PRESIDENTS STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2010 EDITION.

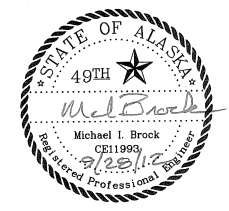
ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2004 EDITION.

TYPE OF CONSTRUCTION:
GRADING, SUBBASE, DRAINAGE IMPROVEMENTS, AND AGGREGATE SURFACE COURSE.

CITY OF NAPAKIAK _____

NAPAKIAK TRADITIONAL COUNCIL _____

ASSOCIATION OF VILLAGE COUNCIL PRESIDENTS _____



PROJECT SUMMARY						
NAME OF ROAD SEGMENT	STATION RANGE	IRR ROUTE NUMBER	WIDTH OF PROJECT		LENGTH OF PROJECT ROAD SURFACE	
			ROAD SURFACE	RIGHT-OF-WAY*		
MISSION ROAD	0+00.00 - 32+23.57	0400-5000	20'	60'	3223.57'	
LAGOON ROAD	40+00.00 - 53+42.32	0700	20'	60'	1342.32'	
0600	60+00.00 - 64+39.65	0600	15'	40'	439.65'	
KUSKOKWIM ROAD	70+00.00 - 78+64.33	5013	15'	65'	864.33'	
2900	80+00.00 - 84+41.00	2900	20'	40'	441.00'	
2800-2700	90+00.00 - 96+01.82	2800-2700	20'	40'	601.82'	
AIRPORT ROAD	100+00.00 - 105+62.45	5021	20'	40'	562.45'	
DUST PALLIATIVE ONLY		3200	≈20'	-	231'	
		3300	≈20'	-	235'	
		5013-10	≈15'	65'	364'	
		5013-20	≈15'	-	847'	
		5019	≈20'	-	268'	
		5021	≈20'	-	1187'	

* RIGHT-OF-WAY WIDTH INCLUDES ACCESS EASEMENTS WHERE PRESENT

Z:\AA...Jobs\ovcp_napakiaak-1541-f-10\iteration_3 (100%)\master\A.1-A.2 (legend and notes).dwg

REV.	DATE	DESCRIPTION	BY



ASSOCIATION OF VILLAGE
COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

NAPAKIAK COMMUNITY
STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

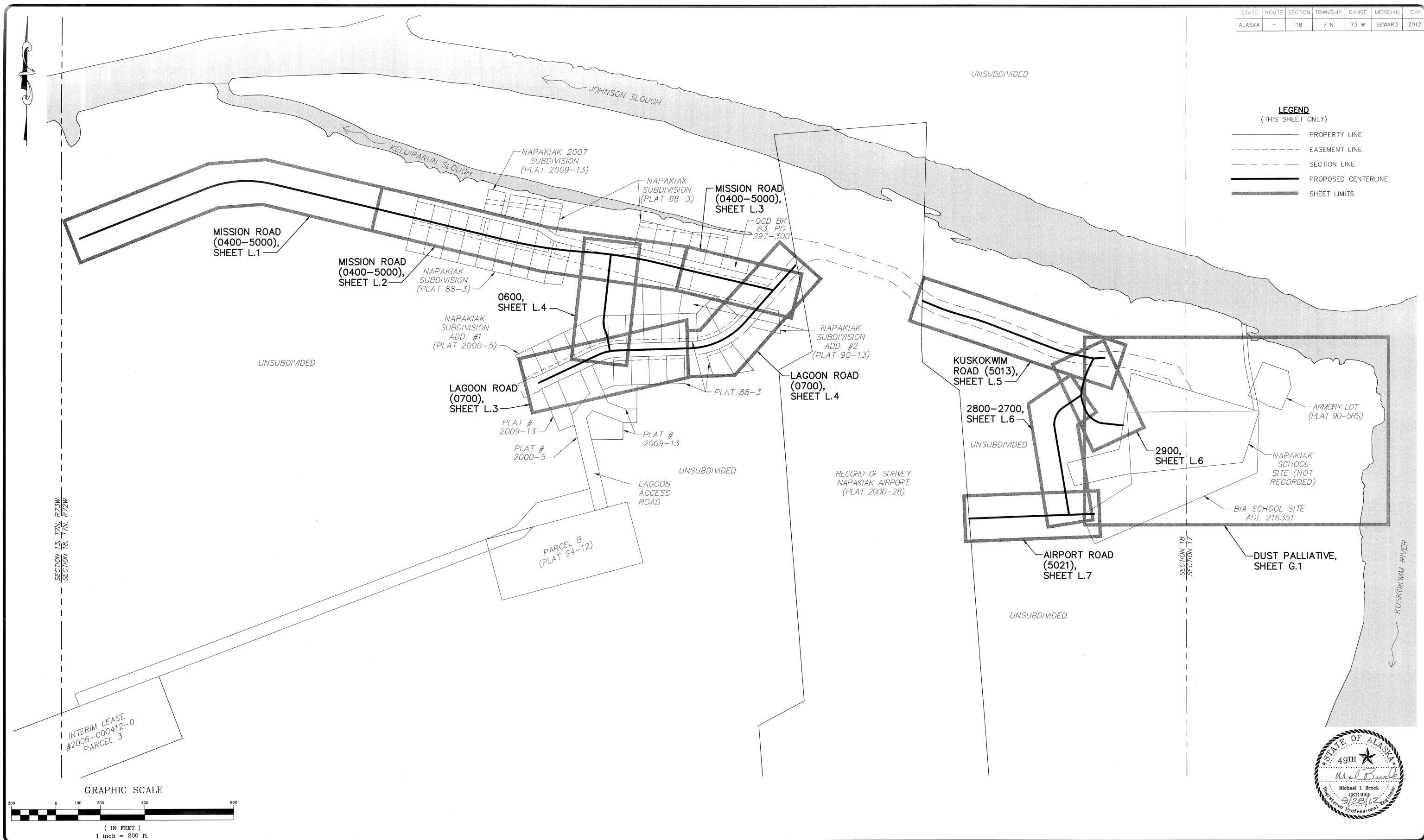
TITLE SHEET

DESIGNED BY: MIB	SHEET NO. A.1
DRAWN BY: JCS	
APPROVED BY: BLP	
DATE: SEPTEMBER 28, 2012	
SCALE: N/A	

STATE	ROUTE	SECTION	TOWNSHIP	RANGE	MERIDIAN	YEAR
ALASKA	-	18	7 N	73 W	SEWARD	2012

LEGEND
(THIS SHEET ONLY)

- PROPERTY LINE
- - - EASEMENT LINE
- - - SECTION LINE
- PROPOSED CENTERLINE
- SHEET LIMITS



SECTION 13, T7N, R33W
SECTION 18, T7N, R2W

SECTION 18
SECTION 17

INTERIM LEASE
#2006-000412-0
PARCEL 3

GRAPHIC SCALE



(IN FEET)
1 inch = 200 ft.



REV.	DATE	DESCRIPTION	BY



ASSOCIATION OF VILLAGE
COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

NAPAKIAK COMMUNITY
STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

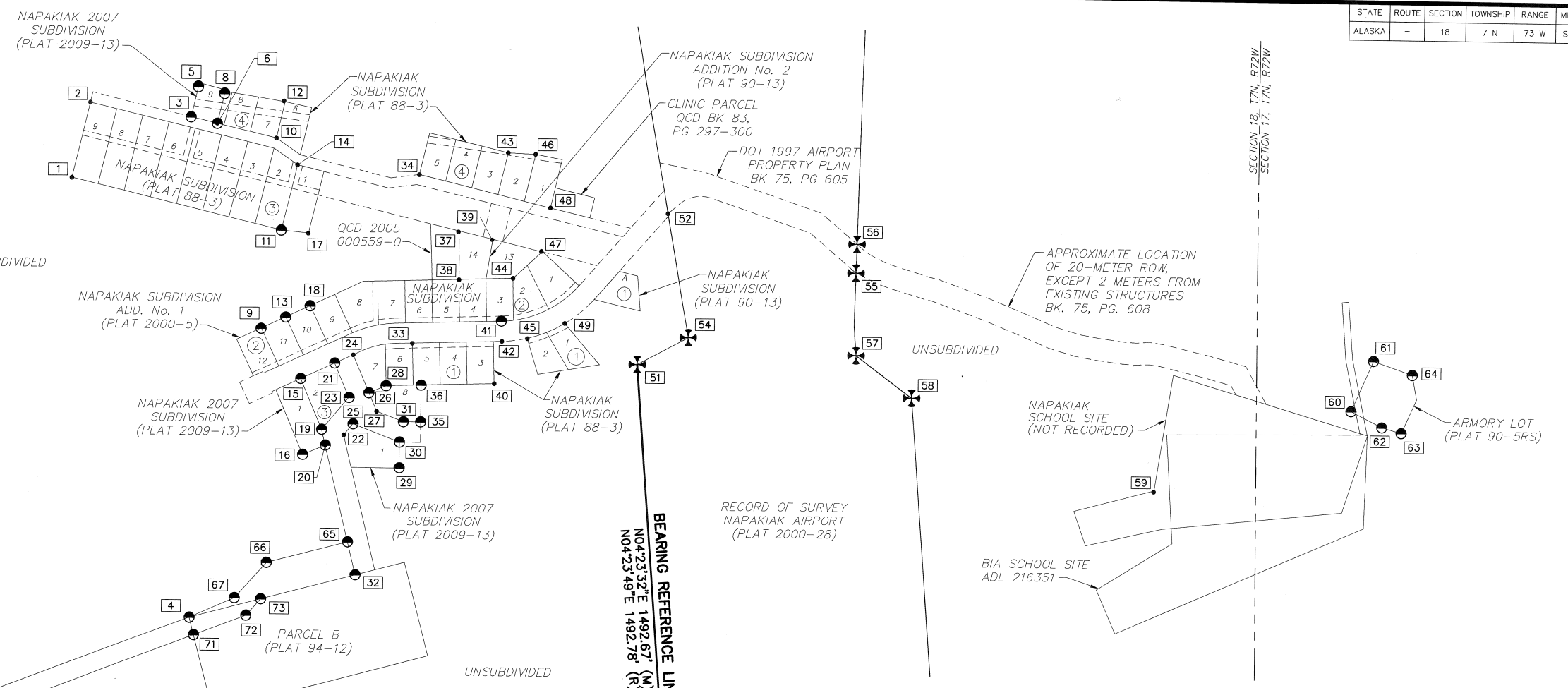
KEY MAP

DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: 1" = 200'

SHEET NO.
A.3

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STATE	ROUTE	SECTION	TOWNSHIP	RANGE	MERIDIAN	YEAR
ALASKA	-	18	7 N	73 W	SEWARD	2012



- LEGEND**
(THIS SHEET ONLY)
- 3-1/4" ALUMINUM MONUMENT
 - 1-1/2" TO 2-1/2" ALUMINUM CAP
 - 5/8" REBAR OR ALUMINUM DRIVE ROD
 - CONTROL POINT NUMBER
 - BEARING REFERENCE LINE
 - EASEMENT LINE
 - PROPERTY LINE
 - BLOCK NUMBER
 - MEASURED
 - RECORD PER RECORD OF SURVEY NAPAKIAK AIRPORT (PLAT 2000-28)

- SURVEY NOTES:**
- CONTROL SURVEY PERFORMED BY RODNEY P. KINNEY ASSOCIATES, INC. OCTOBER 18 TO OCTOBER 22, 2010.
 - CONTOURS ARE BASED ON LIDAR DATA ACQUIRED BY AERO-METRIC, INC. IN NOVEMBER, 2010 AT A HEIGHT OF 1000 METERS ABOVE MEAN TERRAIN (AMT).
 - VERTICAL ACCURACY OF LIDAR DATA IS AT 4" OR BETTER.
 - AREAS DENOTING VEGETATION COVER ON THE GROUND SHOULD BE CONSIDERED LESS ACCURATE AND NOT USED FOR ENGINEERING PURPOSES UNTIL FIELD CHECKED IN ACCORDANCE WITH NATIONAL MAP ACCURACY STANDARDS.
 - ALL FEATURES MAY NOT HAVE BEEN SURVEYED DUE TO SNOW AND ICE CONDITIONS.
 - FEATURES OUTSIDE SCOPE OF WORK MAY NOT HAVE BEEN SURVEYED.
 - THE LOCATIONS OF UTILITIES SHOWN HAVE BEEN OBTAINED FROM RECORD DRAWINGS AND ARE APPROXIMATE ONLY. OTHER UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE DRAWINGS. UNDERGROUND UTILITIES HAVE NOT BEEN LOCATED.
 - SEE SHEET B.2 FOR POINT TABLE AND MONUMENTATION.
 - EDGE OF WATER AND BUILDINGS DRAWN BASED ON AERIAL PHOTOGRAPHY.

BASIS OF HORIZONTAL AND VERTICAL CONTROL

THE BASIS OF BEARING ON THIS PROJECT IS GPS NORTH, DETERMINED BY A HIGH PRECISION GPS SURVEY USING TRIMBLE R8 RECEIVERS DIFFERENTIALLY CORRECTED AND PROCESSED USING TRIMBLE BUSINESS CENTER 2 SOFTWARE. A BEARING REFERENCE LINE IS SHOWN ON THIS SURVEY CONTROL SHEET TO ENABLE CALIBRATION TO THE PROJECT BASIS.

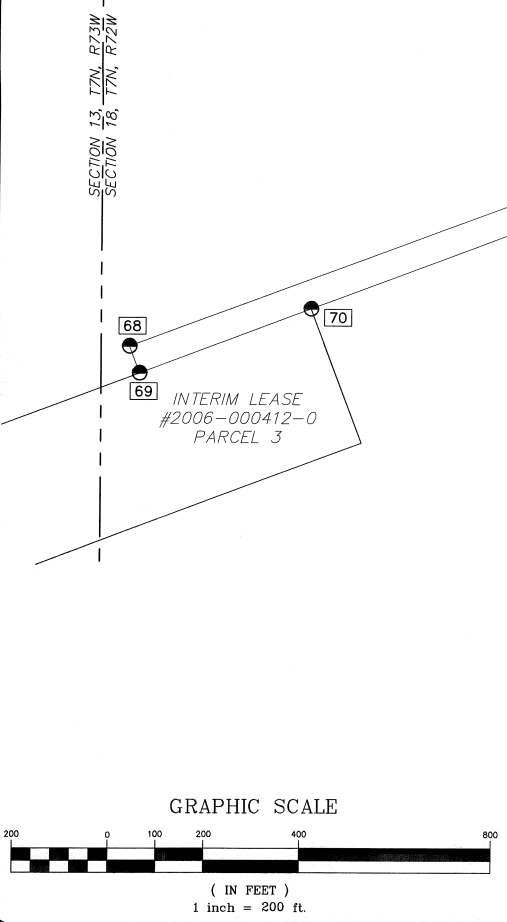
PROJECT COORDINATES WERE ESTABLISHED USING THE ONLINE POSITIONING USER SERVICE (OPUS) TO PERFORM A LEAST SQUARES ADJUSTMENT OF CONTROL POINTS TO THE CORS NETWORK.

HORIZONTAL COORDINATES ARE IN NAD 83, ALASKA STATE PLANE, ZONE 7, FEET.

ELEVATIONS ARE IN NAVD 88, COMPUTED USING ALASKA GEOD09.

CORS BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE
DK4091	BET1 BETHEL WAAS CORS ARP	60° 47' 16.508" N	161° 50' 30.122" W
DL6672	AB12 PLATINUM_AK2007 CORS ARP	58° 57' 02.870" N	161° 44' 46.460" W
DL6429	AB17 UNALAKLEETAK2008 CORS ARP	63° 53' 10.903" N	160° 41' 40.936" W



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REV.	DATE	DESCRIPTION	BY



ASSOCIATION OF VILLAGE COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

NAPAKIAK COMMUNITY STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

SURVEY CONTROL DIAGRAM

DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: 1" = 200'

SHEET NO.
B.1



POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	2446463.5940	1642039.8550	12.66'	FOUND 5/8" REBAR BENT
2	2446682.9010	1642092.2470	13.43'	FOUND 5/8" REBAR BENT
3	2446642.0780	1642390.7210	14.05'	FOUND 2" ALUMINUM CAP
4	2445168.3477	1642401.7933	13.43'	FOUND 2" ALUMINUM CAP
5	2446729.6750	1642411.7460	15.21'	FOUND 2" ALUMINUM CAP
6	2446623.4490	1642468.5520	13.40'	FOUND 2" ALUMINUM CAP
7	2444894.7590	1642474.0110	15.51'	FOUND 2" ALUMINUM CAP
8	2446711.0390	1642489.4650	15.20'	FOUND 2" ALUMINUM CAP
9	2446026.6880	1642605.9700	11.79'	FOUND 2" ALUMINUM CAP BENT
10	2446581.5990	1642643.5950	16.02'	FOUND 5/8" REBAR
11	2446315.2010	1642662.0620	13.49'	FOUND 2-1/2" ALUMINUM CAP
12	2446690.7710	1642665.5720	15.70'	FOUND 5/8" REBAR
13	2446060.8040	1642678.4320	12.47'	FOUND 2" ALUMINUM CAP
14	2446504.6880	1642707.2910	15.91'	FOUND 5/8" REBAR
15	2445878.8120	1642724.7540	14.30'	FOUND 2" ALUMINUM CAP
16	2445653.6540	1642732.8540	12.63'	FOUND 2" ALUMINUM CAP
17	2446307.0080	1642741.9800	13.09'	FOUND 5/8" REBAR BENT
18	2446094.9900	1642750.6060	12.89'	FOUND 2" ALUMINUM CAP
19	2445728.4890	1642788.3890	12.80'	FOUND 2" ALUMINUM CAP
20	2445681.9580	1642799.6350	12.33'	FOUND 2" ALUMINUM CAP
21	2445925.9550	1642824.8120	16.14'	FOUND 2" ALUMINUM CAP
22	2445713.1900	1642853.8600	13.06'	FOUND 2" ALUMINUM CAP
23	2445824.0160	1642868.5260	15.32'	FOUND 2" ALUMINUM CAP
24	2445950.8970	1642879.5380	15.20'	FOUND 5/8" REBAR
25	2445745.8620	1642881.1940	13.19'	FOUND 2" ALUMINUM CAP
26	2445838.6860	1642927.2180	12.93'	FOUND 5/8" REBAR BENT
27	2445783.7650	1642950.4440	12.78'	FOUND 2" ALUMINUM CAP BENT
28	2445860.1550	1642977.5100	15.66'	FOUND 2" ALUMINUM CAP
29	2445617.1080	1643018.9140	12.56'	FOUND 2" ALUMINUM CAP
30	2445693.3220	1643018.9740	13.80'	FOUND 2" ALUMINUM CAP
31	2445753.5090	1643029.9910	13.33'	FOUND 2" ALUMINUM CAP
32	2445297.7009	1642891.7313	17.91'	FOUND 2" ALUMINUM CAP
33	2445987.0550	1643053.6700	14.31'	FOUND 5/8" REBAR
34	2446480.0180	1643068.1820	14.11'	FOUND 5/8" REBAR BENT
35	2445753.4580	1643080.9600	13.38'	FOUND 2" ALUMINUM CAP
36	2445862.7190	1643081.0890	14.52'	FOUND 2" ALUMINUM CAP
37	2446314.9580	1643185.9950	11.90'	FOUND 5/8" REBAR

POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
38	2446175.5680	1643189.4500	13.08'	FOUND 5/8" REBAR
39	2446292.7290	1643286.1580	13.28'	FOUND 5/8" REBAR
40	2445869.4550	1643297.5520	13.77'	FOUND 5/8" REBAR
41	2446055.5560	1643318.8800	13.87'	FOUND 2-1/2" ALUMINUM CAP
42	2445995.2500	1643318.8100	14.41'	FOUND 5/8" REBAR
43	2446545.3970	1643330.4080	15.75'	FOUND 5/8" REBAR
44	2446181.1700	1643349.2080	13.22'	FOUND 5/8" REBAR
45	2446004.2640	1643393.9510	13.02'	FOUND 5/8" REBAR BENT
46	2446542.4480	1643411.8120	15.82'	FOUND 5/8" REBAR
47	2446260.3820	1643432.1020	12.92'	FOUND 5/8" REBAR
48	2446387.0470	1643457.3810	13.02'	FOUND 5/8" REBAR BENT
49	2446050.3510	1643504.2510	13.54'	FOUND 5/8" REBAR BENT
50	2444330.6240	1643630.1010	12.02'	FOUND 3" ALUMINUM CAP BENT
51	2445929.8260	1643719.9780	14.16'	FOUND 3" ALUMINUM CAP
52	2446372.9040	1643805.5510	13.34'	FOUND 5/8" REBAR
53	2444441.5410	1643834.2920	13.80'	FOUND 3" ALUMINUM CAP
54	2446011.1870	1643870.1430	11.93'	FOUND 3" ALUMINUM CAP
55	2446204.4760	1644364.3240	14.42'	FOUND 3" ALUMINUM CAP
56	2446288.6490	1644366.2550	15.66'	FOUND 3" ALUMINUM CAP
57	2445961.4420	1644367.3830	14.23'	FOUND 3" ALUMINUM CAP
58	2445836.6160	1644533.3410	14.54'	FOUND 3" ALUMINUM CAP
59	2445567.3950	1645252.2920	14.95'	FOUND 5/8" REBAR
60	2445813.4260	1645833.8200	15.73'	FOUND 5/8" REBAR
61	2445962.9180	1645898.7300	12.56'	FOUND 1-1/2" ALUMINUM CAP
62	2445765.7680	1645925.4540	15.54'	FOUND 5/8" REBAR
63	2445749.2230	1645982.6400	13.90'	FOUND 5/8" REBAR
64	2445922.9120	1646013.7920	13.09'	FOUND 2" ALUMINUM CAP
65	2445394.9647	1642868.3259	11.30'	FOUND 2" ALUMINUM CAP
66	2445331.6323	1642628.5285	11.10'	FOUND 2" ALUMINUM CAP
67	2445226.6537	1642534.6234	12.55'	FOUND 2" ALUMINUM CAP
68	2444479.9087	1640550.3249	18.13'	FOUND 2" ALUMINUM CAP
69	2444423.7283	1640571.4510	22.01'	FOUND 2" ALUMINUM CAP
70	2444558.3036	1640928.9779	19.92'	FOUND 2" ALUMINUM CAP
71	2445117.5997	1642415.1916	15.61'	FOUND 2" ALUMINUM CAP
72	2445175.6789	1642569.4865	16.07'	FOUND 2" ALUMINUM CAP
73	2445224.0443	1642612.7861	14.45'	FOUND 2" ALUMINUM CAP

NOTES:
1. SEE SHEET B.1 FOR SURVEY CONTROL DIAGRAM.
2. CONTROL POINTS NOT SHOWN ARE 5/8" REBAR OR ALUMINUM DRIVE ROD.



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NAPAKIAK COMMUNITY
STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

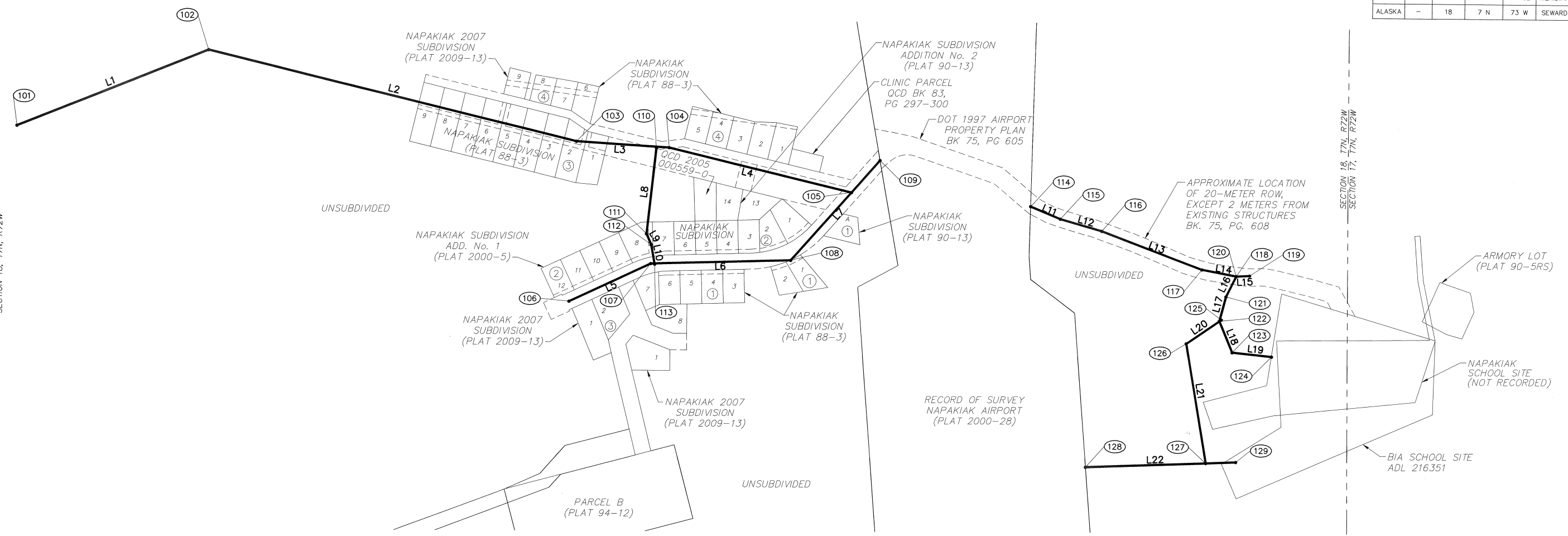
SURVEY CONTROL MONUMENTATION
AND POINT TABLES

DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: N/A

SHEET NO.
B.2

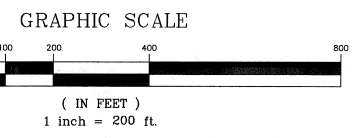
SECTION 13, 17N, R23W
SECTION 18, 17N, R23W

SECTION 19, 17N, R23W
SECTION 17, 17N, R23W



PI AND TANGENT TABLE						
PI COORDINATE			TANGENTS BETWEEN PI'S			
POINT	NORTHING	EASTING	LINE	BEARING	LENGTH	
101	2446515.0000	1640572.0000	L1	N68°19'12"E	768.16'	
102	2446798.7756	1641285.8225	L2	S76°32'28"E	1417.15'	
103	2446468.9401	1642664.0495	L3	S86°28'39"E	347.72'	
104	2446447.5765	1643011.1091	L4	S76°32'28"E	702.28'	
105	2446284.1237	1643694.1015				
106	2445871.9827	1642639.2675	L5	N64°54'08"E	336.44'	
107	2446014.6886	1642943.9447	L6	N88°22'52"E	524.23'	
108	2446029.4994	1643467.9654	L7	N41°36'32"E	500.11'	
109	2446403.4292	1643800.0587				
110	2446446.5361	1642963.2198	L8	S06°15'19"W	322.41'	
111	2446126.0422	1642928.0900	L9	S23°51'34"E	44.02'	
112	2446085.7834	1642945.8963	L10	S10°07'19"E	74.58'	
113	2446012.3652	1642959.0030				
114	2446234.8673	1644365.2533	L11	S67°35'45"E	120.52'	
115	2446188.9327	1644476.6769	L12	S74°21'38"E	161.74'	
116	2446145.3296	1644632.4303	L13	S69°28'21"E	401.87'	
117	2446004.4103	1645008.7864	L14	S79°16'02"E	130.51'	
118	2445980.1057	1645137.0121	L15	N87°27'34"E	50.00'	
119	2445982.3221	1645186.9629				
120	2445980.1057	1645137.0121	L16	S26°06'28"W	85.65'	
121	2445903.1977	1645099.3221	L17	S14°47'40"W	95.64'	
122	2445810.7304	1645074.9006	L18	S22°38'48"E	126.55'	
123	2445693.9390	1645123.6281	L19	S84°01'10"E	148.18'	
124	2445678.5000	1645271.0000				
125	2445815.7514	1645082.1906	L20	S55°26'34"W	157.93'	
126	2445726.1685	1644952.1249	L21	S09°32'07"E	456.45'	
127	2445276.0256	1645027.7389				
128	2445258.0000	1644577.5000	L22	N87°42'26"E	562.45'	
129	2445280.5000	1645139.5000				

- LEGEND**
(THIS SHEET ONLY)
- 101 PI CALLOUT
 - CENTERLINE TANGENTS
 - EASEMENT LINE
 - PROPERTY LINE
 - SECTION LINE
 - 14 BLOCK NUMBER



Z:\AA_jobs\evcp_napakia\1541-f-10\iteration_3 (100%)\master\B01-B03 (survey control diagram & monuments).dwg

REV.	DATE	DESCRIPTION	BY



ASSOCIATION OF VILLAGE COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

NAPAKIAK COMMUNITY STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

PI DIAGRAM AND TANGENT TABLE

DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: 1" = 200'

SHEET NO.
B.3

SIGNAGE SUMMARY						
SIGN NO. SHEET NO.	LOCATION (STATION)	LEGEND	SIGN TYPE (SEE NOTE 1 THIS SHEET)	SIZE (in.)	FACING	NOTES
1 SHEET L.3	31+75		R1-2	30x30x30	NORTHWEST	-
2 SHEET L.4	60+21		R1-2	30x30x30	SOUTHEAST	-
3 SHEET L.5	64+19		R1-2	30x30x30	NORTHWEST	-
4 SHEET L.6	80+07		R1-2	30x30x30	SOUTHWEST	-
5 SHEET L.6	90+38		R1-2	30x30x30	SOUTHWEST	-
6 SHEET L.6	95+80		R1-2	30x30x30	NORTHWEST	-

NOTES:

1. REFERENCE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2009 EDITION, "ALASKA TRAFFIC MANUAL SUPPLEMENT", JANUARY 2003 EDITION, AND "ALASKA SIGN DESIGN SPECIFICATIONS."
2. INSTALL SIGNS IN ACCORDANCE WITH ADOT&PF STANDARD DETAILS S-01.00, S-05.01, S-20.10, AND S-30.03, (4' SOIL EMBEDMENT) WITH 2 1/4" x 2 1/4" PERFORATED STEEL TUBE POST.
3. SIGN LOCATION SHALL BE 7' FROM EDGE OF SHOULDER TO CENTER OF POST.

CULVERT TABLE									
NO.	STATION	SKEW	PIPE CULVERT (LINEAR FEET)			INLET (LT)	OUTLET (RT)	SLOPE	NOTES
			18	24	36				
SHEET L.1	10+33	0°	35			16.10	15.40	2.0%	
SHEET L.1	13+50	0°	36			14.60	14.25	1.0%	
SHEET L.2	17+49	3°ccw	36			15.80	15.45	1.0%	
SHEET L.2	21+11	1°ccw	35			16.35	15.65	2.0%	
SHEET L.4	61+68	16°ccw			47	14.20	13.25	2.0%	
SHEET L.6	93+20	11°ccw		38		13.65	13.25	1.1%	
CUMULATIVE TOTAL			142	38	47				

NOTES:

1. QUANTITIES SHOWN HERE ARE APPROXIMATE AND ARE SUBJECT TO FIELD ADJUSTMENT AT TIME OF CONSTRUCTION.
2. ADD CULVERT MARKERS TO ALL CULVERT INLETS AND OUTLETS PER SHEET F.2.
3. ADD CULVERT THAW PIPING TO ALL CULVERTS PER SHEET F.3.

SUMMARY OF QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
201(3B)	CLEARING AND GRUBBING	LUMP SUM	ALL REQUIRED
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED
203(3)	UNCLASSIFIED EXCAVATION	CUBIC YARD	230
203(5)	BORROW	CUBIC YARD	8,302
301(2)	AGGREGATE BASE COURSE, GRADING E-1	CUBIC YARD	2,782
603(1a)	36-INCH POLYETHYLENE PIPE	LINEAR FOOT	47
603(1b)	24-INCH POLYETHYLENE PIPE	LINEAR FOOT	38
603(1c)	18-INCH POLYETHYLENE PIPE	LINEAR FOOT	142
613(2)	CULVERT POST MARKERS	EACH	12
615(1)	STANDARD SIGN	SQUARE FOOT	45
616(1)	1-1/2" DIAMETER THAW PIPE	LINEAR FOOT	240
618(1)	SEEDING	LUMP SUM	ALL REQUIRED
630(2)	GEOTEXTILE FOR EMBANKMENT SEPARATION AND STABILIZATION	SQUARE YARD	22,840
639(1)	RESIDENCE DRIVEWAY	EACH	47
639(2)	COMMERCIAL DRIVEWAY	EACH	22
640(1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641(1)	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641(3)	TEMPORARY EROSION AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
642(1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
643(2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643(18)	WATERING	LUMP SUM	ALL REQUIRED
646(1)	CPM SCHEDULING	LUMP SUM	ALL REQUIRED
672(1)	DUST PALLIATIVE	SQUARE YARD	23,930

* ALL QUANTITIES SHOWN WERE USED TO DEVELOP THE ENGINEER'S ESTIMATE. AVCP OR RPKA ASSUME NO RESPONSIBILITY FOR SUCH QUANTITIES OR ANY INCIDENTAL INFORMATION THAT MAY BE CONSTRUCTED AS QUANTITY OF WORK OR MATERIALS.

NOTES:

- 1 DRIVEWAY PAY ITEMS INCLUDE ALL EARTHWORK QUANTITIES AND MATERIAL TYPES NEEDED FOR DRIVEWAY CONSTRUCTION. DRIVEWAY CULVERTS ARE SEPARATE AND ARE INCLUDED IN CULVERT BID ITEMS.
- 2 STANDARD SIGN QUANTITIES ARE BASED ON A STANDARD STREET SIGN. STREET SIGN SIZE MAY VARY.
- 3 DUST PALLIATIVE APPLICATION SHALL BE ADJUSTED AT TIME OF CONSTRUCTION BASED ON CURRENT KUSKOKWIM RIVER LOCATION.

Z:\AA_Jobs\avcp_napakia-1541.f-10\iteration 3 (100%)\master\C01-C03 (tables).dwg

REV.	DATE	DESCRIPTION	BY



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P.O. BOX 219
BETHEL, ALASKA 99559

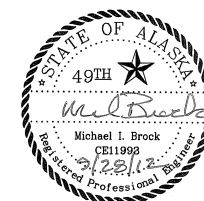
NAPAKIAK COMMUNITY
STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

SIGNAGE SUMMARY,
SUMMARY OF QUANTITIES
AND CULVERT TABLE

DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: N/A

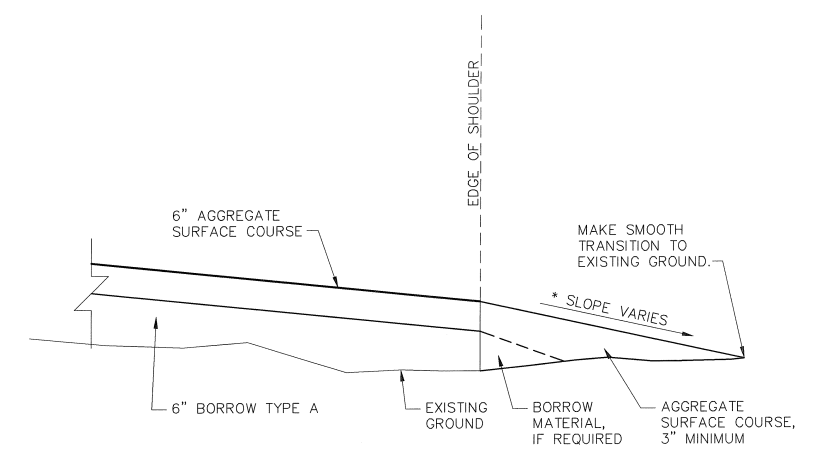
SHEET NO.

C.1

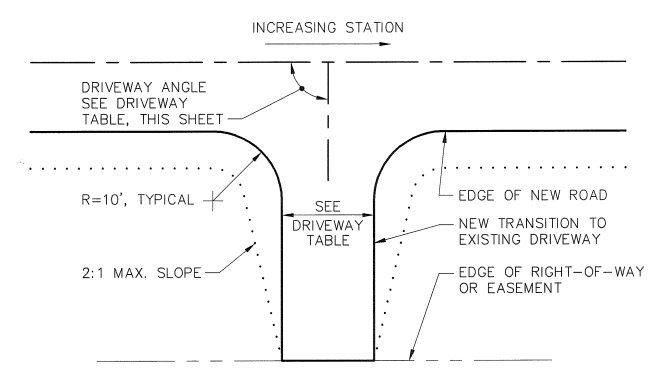


DRIVEWAY TABLE

DRIVE NO. SHEET NO.	STATION	WIDTH (FEET)	DRIVEWAY ANGLE	APPROXIMATE GRADE	PERMIT REQUIRED	DRIVE NO. SHEET NO.	STATION	WIDTH (FEET)	DRIVEWAY ANGLE	APPROXIMATE GRADE	PERMIT REQUIRED	DRIVE NO. SHEET NO.	STATION	WIDTH (FEET)	DRIVEWAY ANGLE	APPROXIMATE GRADE	PERMIT REQUIRED
1 SHEET L.1	0+77 R	10'	90°	-13.3%	NO	24 SHEET L.2	26+09 L	10'	90°	-14.8%	NO	47 SHEET L.4	50+66 R	10'	127°	-13.6%	NO
2 SHEET L.1	0+98 L	10'	90°	-13.2%	NO	25 SHEET L.2	26+75 R	10'	90°	-7.2%	NO	48 SHEET L.4	51+69 R	10'	58°	-8.4%	NO
3 SHEET L.1	7+95 R	10'	90°	-11.0%	NO	26 SHEET L.2	27+46 L	20'	90°	-13.5%	NO	49 SHEET L.4	61+38 R	10'	29°	-6.4%	YES*
4 SHEET L.1	9+24 R	10'	49°	-9.1%	NO	27 SHEET L.3	28+52 L	10'	90°	-12.4%	NO	50 SHEET L.5	71+48 R	10'	126°	-5.1%	NO
5 SHEET L.2	15+08 R	18'	64°	-13.6%	NO	28 SHEET L.3	29+46 L	10'	90°	-14.8%	NO	51 SHEET L.5	71+69 L	10'	90°	-6.5%	NO
6 SHEET L.2	15+81 L	10'	56°	14.7%	NO	29 SHEET L.3	29+95 R	10'	57°	-9.8%	NO	52 SHEET L.5	73+00 R	10'	57°	-6.8%	NO
7 SHEET L.2	16+35 L	10'	90°	-13.2%	NO	30 SHEET L.3	30+25 L	20'	90°	-12.3%	NO	53 SHEET L.5	74+00 R	10'	90°	-9.9%	NO
8 SHEET L.2	16+57 R	10'	90°	-9.7%	NO	31 SHEET L.3	40+85 L	10'	90°	-3.8%	NO	54 SHEET L.5	75+40 R	10'	90°	-10.9%	NO
9 SHEET L.2	17+41 R	10'	90°	-11.9%	NO	32 SHEET L.3	41+47 L	10'	90°	-6.9%	NO	55 SHEET L.5	76+31 R	5'	121°	-7.7%	NO
10 SHEET L.2	18+12 L	10'	70°	-14.5%	YES*	33 SHEET L.3	42+48 L	10'	90°	-6.4%	NO	56 SHEET L.5	76+68 R	5'	61°	-4.0%	NO
11 SHEET L.2	18+17 R	10'	90°	-14.9%	YES*	34 SHEET L.3	43+12 L	10'	90°	-9.1%	NO	57 SHEET L.5	76+69 L	10'	90°	-7.8%	NO
12 SHEET L.2	19+00 R	10'	90°	-14.4%	YES*	35 SHEET L.3	44+25 L	20'	90°	-14.9%	NO	58 SHEET L.5	77+04 R	10'	90°	-4.9%	NO
13 SHEET L.2	19+10 L	10'	64°	-15.0%	YES*	36 SHEET L.3	44+49 R	10'	90°	-14.6%	NO	59 SHEET L.5	77+94 L	10'	90°	-5.1%	NO
14 SHEET L.2	19+78 R	10'	90°	-14.3%	YES*	37 SHEET L.3	45+25 L	10'	90°	-14.3%	NO	60 SHEET L.6	83+15 R	10'	90°	-8.8%	NO
15 SHEET L.2	19+87 L	10'	90°	-14.6%	YES*	38 SHEET L.3	46+15 R	10'	70°	-14.1%	NO	61 SHEET L.6	91+87 R	10'	90°	-6.8%	NO
16 SHEET L.2	20+77 R	10'	48°	-14.8%	YES*	39 SHEET L.3	46+45 R	10'	106°	-14.0%	NO	62 SHEET L.6	92+73 L	10'	120°	-13.1%	YES*
17 SHEET L.2	21+45 L	10'	90°	-14.7%	YES*	40 SHEET L.3	46+62 L	20'	90°	-14.4%	NO	63 SHEET L.7	101+60 R	40'	90°	-5.7%	NO
18 SHEET L.2	21+47 R	10'	90°	-14.7%	NO	41 SHEET L.4	47+53 R	10'	62°	-12.7%	NO	64 SHEET L.7	101+71 L	10'	90°	-12.5%	YES*
19 SHEET L.2	22+04 L	10'	90°	-13.9%	NO	42 SHEET L.4	48+33 R	10'	90°	-14.2%	NO	65 SHEET L.7	102+07 R	10'	113°	-13.6%	YES*
20 SHEET L.2	22+05 R	10'	59°	-13.5%	NO	43 SHEET L.4	48+64 L	10'	90°	-14.6%	NO	66 SHEET L.7	102+77 R	10'	41°	-11.3%	YES*
21 SHEET L.2	23+94 R	10'	116°	-13.7%	NO	44 SHEET L.4	48+84 R	10'	90°	-12.6%	NO	67 SHEET L.7	103+82 L	10'	90°	-13.9%	YES*
22 SHEET L.2	23+97 L	10'	90°	-12.4%	NO	45 SHEET L.4	50+07 R	10'	90°	-12.6%	NO	68 SHEET L.7	104+13 R	10'	90°	-14.2%	NO
23 SHEET L.2	24+95 L	10'	90°	-10.7%	NO	46 SHEET L.4	50+51 L	10'	90°	-13.9%	NO	69 SHEET L.7	104+91 L	10'	90°	-14.0%	NO



* DRIVEWAY GRADE SHALL BE BETWEEN 15% AND -15% DEPENDING ON LOCATION, UNLESS OTHERWISE SHOWN IN DRIVEWAY TABLE.



NOTES:

1. CONSTRUCT NEW TRANSITIONS TO EXISTING DRIVEWAYS AT LOCATIONS SHOWN IN PLAN SHEETS AND IN DRIVEWAY TABLE. NEW TRANSITIONS ARE TO REMAIN ENTIRELY WITHIN RIGHT-OF-WAY UNLESS DRIVEWAY PERMIT IS OBTAINED FROM PROPERTY OWNER, EXCEPT FOR NATIVE ALLOTMENTS, SEE GENERAL NOTE 14. LOCATIONS WHERE PERMIT IS EXPECTED ARE LISTED IN THE DRIVEWAY TABLE.
2. DRIVEWAY GRADES SHALL NOT BE STEEPER THAN 15% OR EXISTING DRIVEWAY GRADE, WHICHEVER IS GREATER.
3. DRIVEWAY WIDTH CAN BE ADJUSTED TO MATCH EXISTING CONDITION.
4. 10' RADIUS IS THE MINIMUM RADIUS, INCREASE RADIUS TO MATCH EXISTING.

1 TYPICAL DRIVEWAY DETAIL
C.2 -NTS-



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REV.	DATE	DESCRIPTION	BY



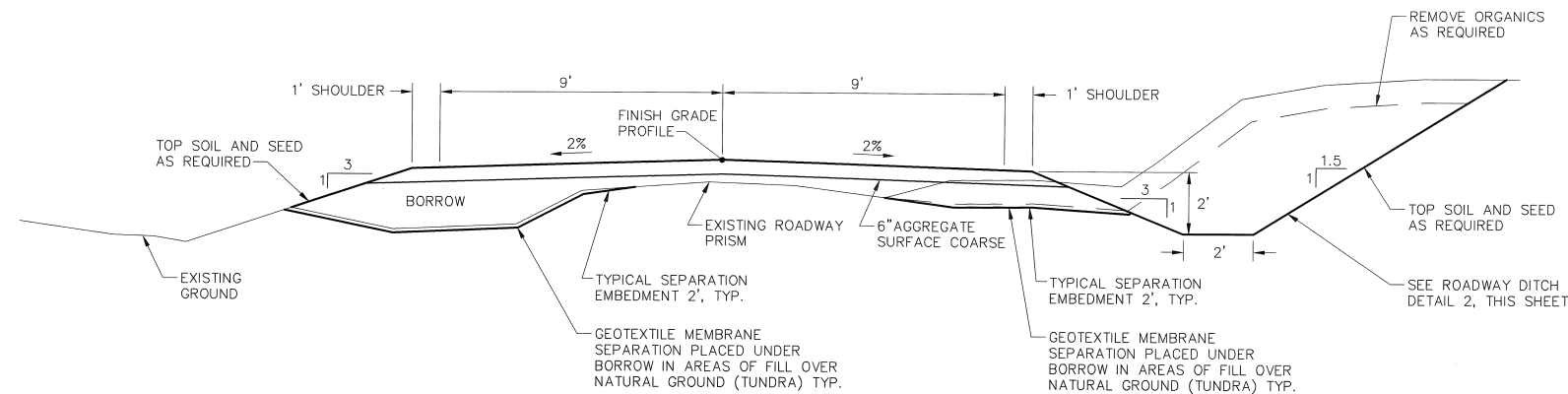
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NAPAKIAK, ALASKA

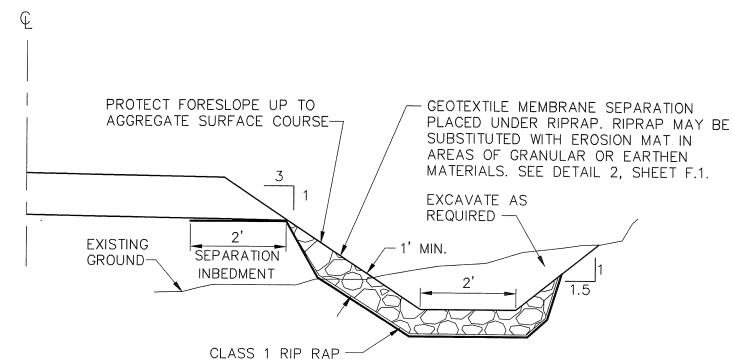
DRIVEWAY TABLE AND DRIVEWAY DETAIL

DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: N/A

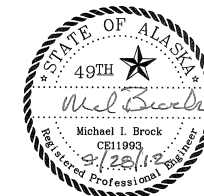
SHEET NO.
C.2



1 TYPICAL 20-FOOT ROAD SECTION
D.1 -NTS-



2 ROADWAY DITCH DETAIL
D.1 -NTS-



Z:\AA_Jobs\avcp napakiak-1541.f-10\iteration_3 (100%)\master\D01 (roadway details).dwg

REV.	DATE	DESCRIPTION	BY



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STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

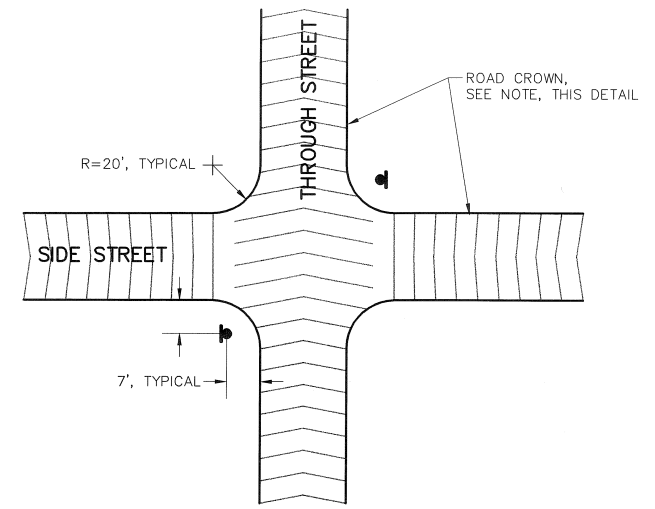
ROADWAY DETAIL AND
ROADWAY DITCH DETAIL

DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: N/A

SHEET NO.

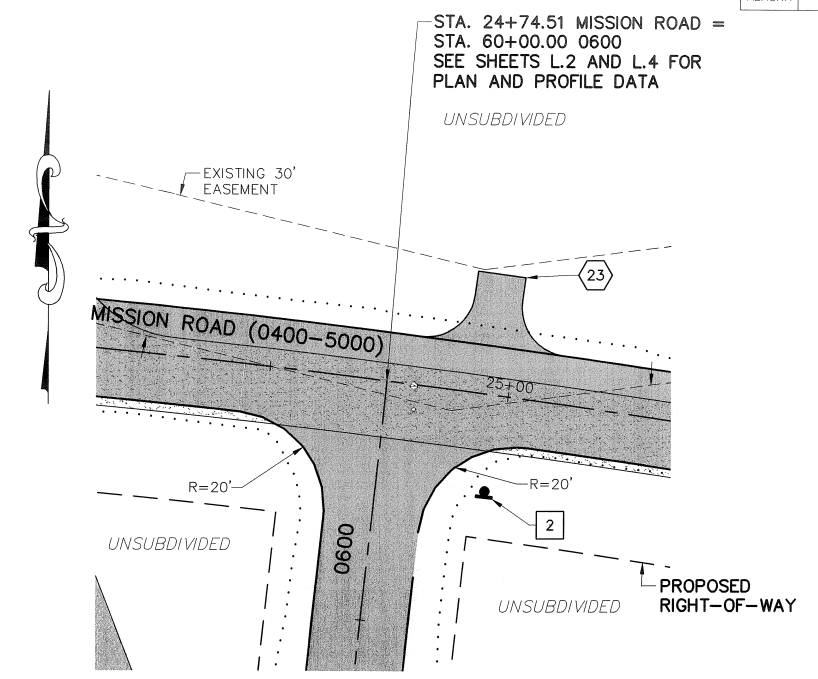
D.1

STATE	ROUTE	SECTION	TOWNSHIP	RANGE	MERIDIAN	YEAR
ALASKA	-	18	7 N	73 W	SEWARD	2012

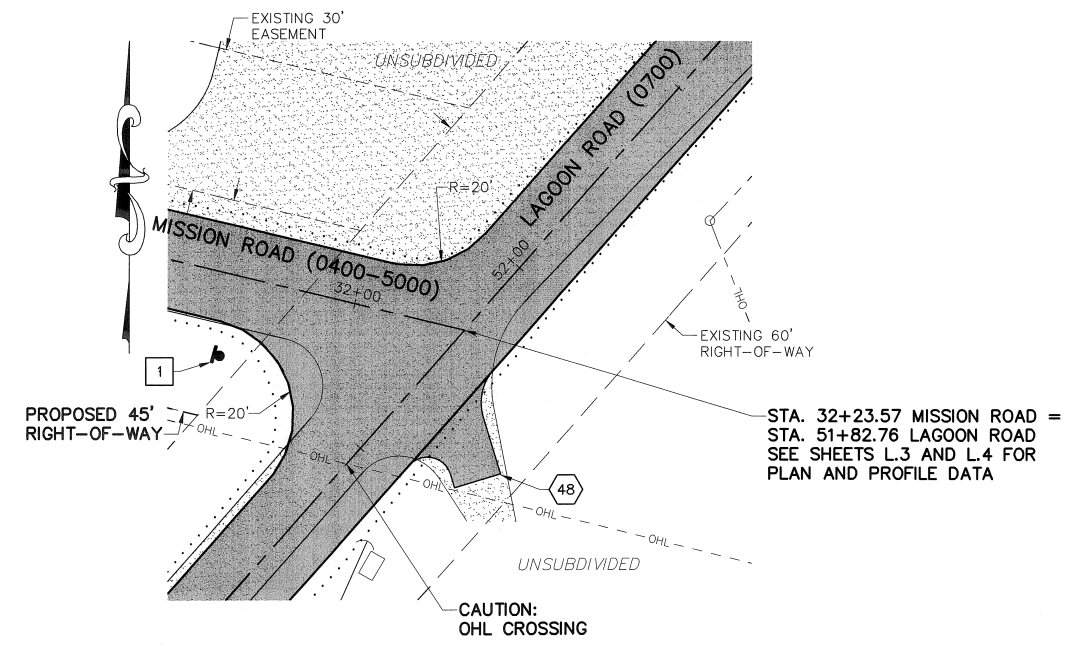


NOTE:
THROUGH-ROAD RETAINS CROWN. SIDE ROADS, WHICH HAVE STOP OR YIELD SIGNS, ARE SHAPED TO MATCH THE EDGE OF THROUGH-ROAD BY TRANSITIONING FROM CROWN SURFACE TO MATCH GRADE OF THROUGH-ROAD.

1
E.1
TYPICAL INTERSECTION DETAIL
-NTS-

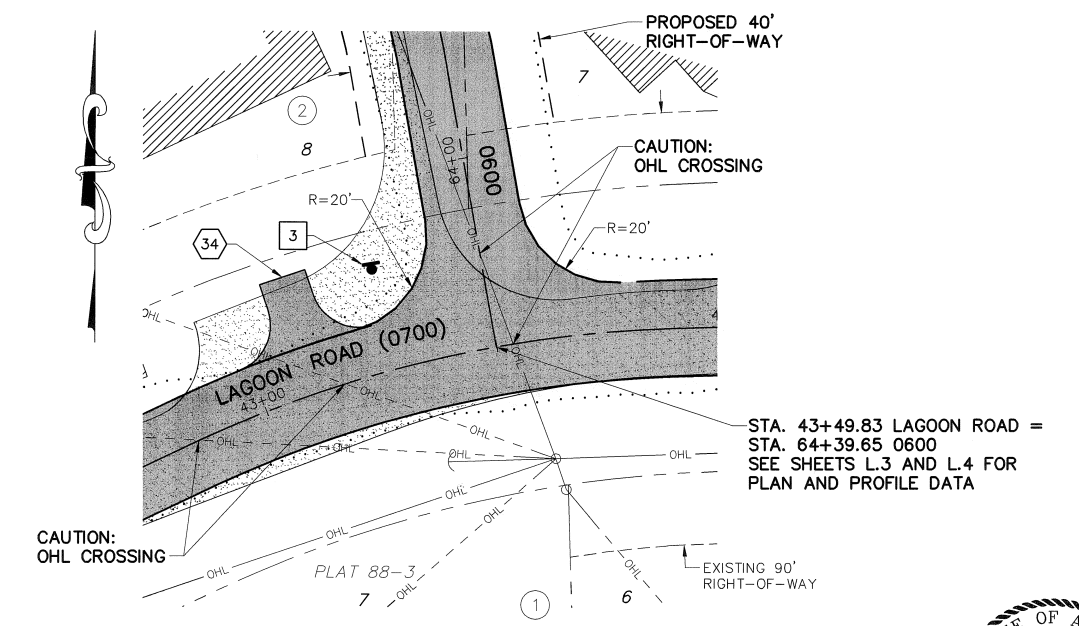


2
E.1
MISSION ROAD AND 0600
1"=20'



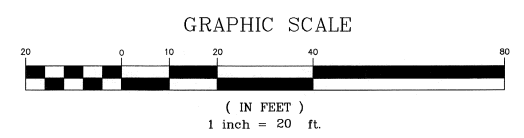
STA. 32+23.57 MISSION ROAD =
STA. 51+82.76 LAGOON ROAD
SEE SHEETS L.3 AND L.4 FOR
PLAN AND PROFILE DATA

3
E.1
MISSION ROAD AND
LAGOON ROAD
1"=20'



STA. 43+49.83 LAGOON ROAD =
STA. 64+39.65 0600
SEE SHEETS L.3 AND L.4 FOR
PLAN AND PROFILE DATA

4
E.1
0600 AND LAGOON ROAD
1"=20'



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REV.	DATE	DESCRIPTION	BY



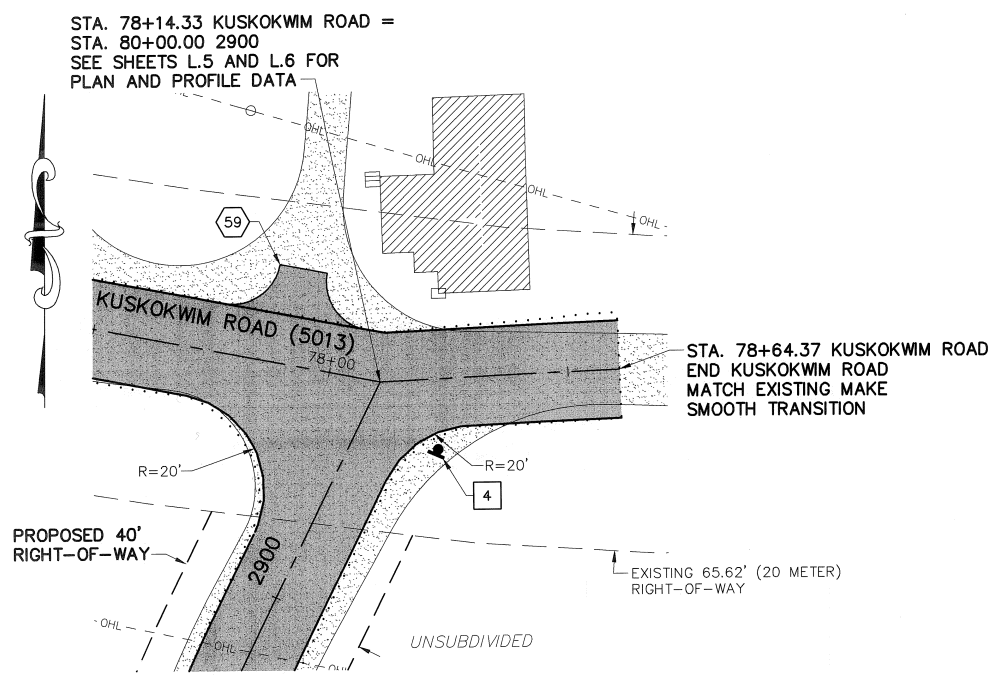
ASSOCIATION OF VILLAGE
COUNCIL PRESIDENTS
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NAPAKIAK COMMUNITY
STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

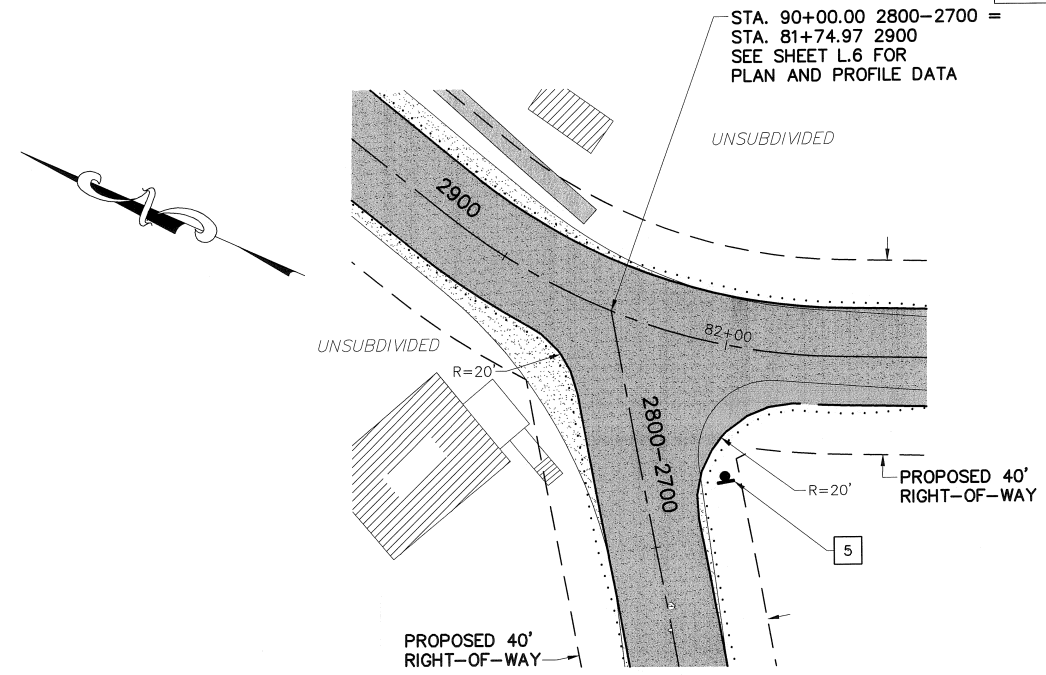
INTERSECTION AND
PARKING LOT DETAILS

DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: 1" = 20'

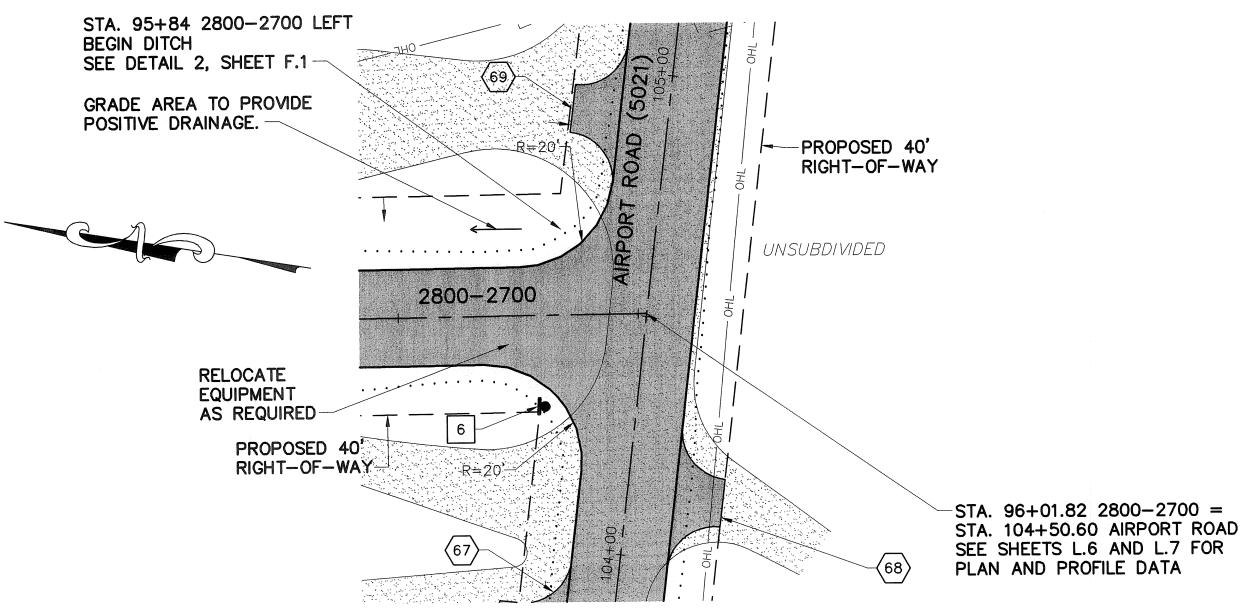
SHEET NO.
E.1



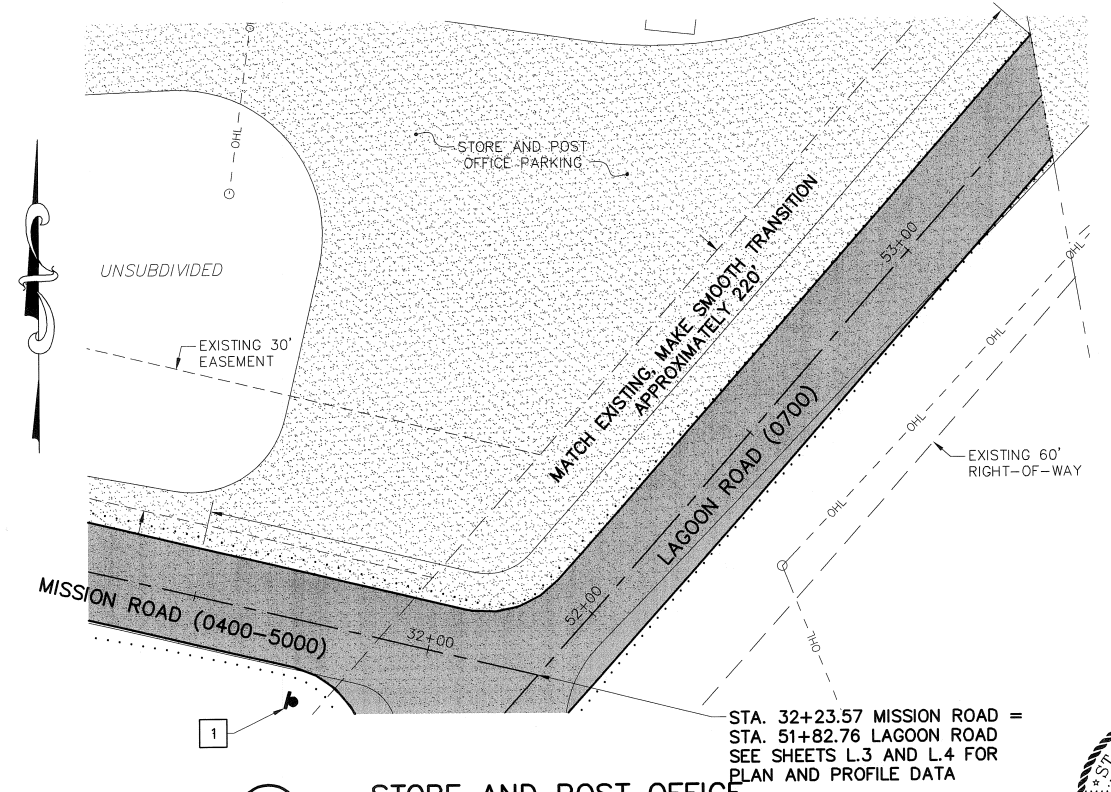
1 KUSKOKWIM ROAD AND 2900
E.2 1"=20'



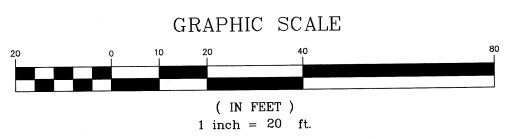
2 2800-2700 AND 2900
E.2 1"=20'



3 2800-2700 AND AIRPORT ROAD
E.2 1"=20'



4 STORE AND POST OFFICE PARKING LOT
E.2 1"=20'



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REV.	DATE	DESCRIPTION	BY



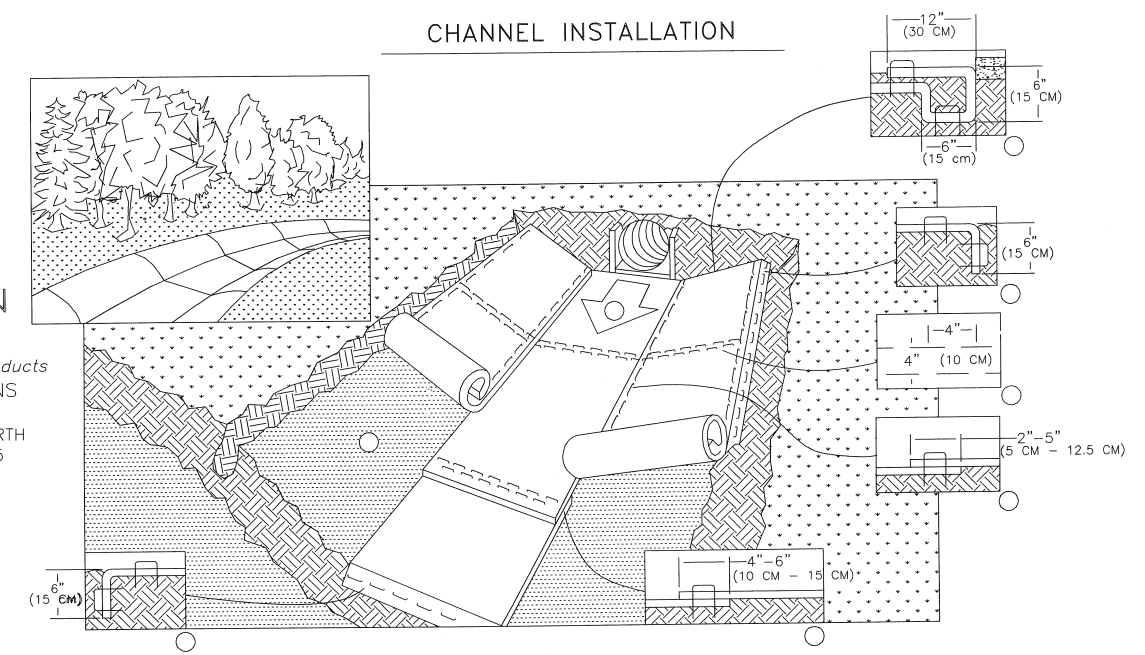
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P.O. BOX 219
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NAPAKIAK COMMUNITY STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

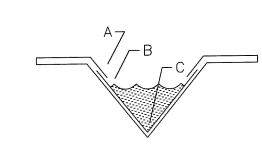
INTERSECTION AND PARKING LOT DETAILS

DESIGNED BY: MIB	SHEET NO. E.2
DRAWN BY: JCS	
APPROVED BY: BLP	
DATE: SEPTEMBER 28, 2012	
SCALE: 1" = 20'	

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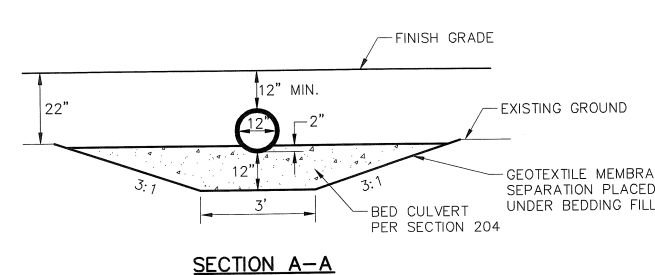
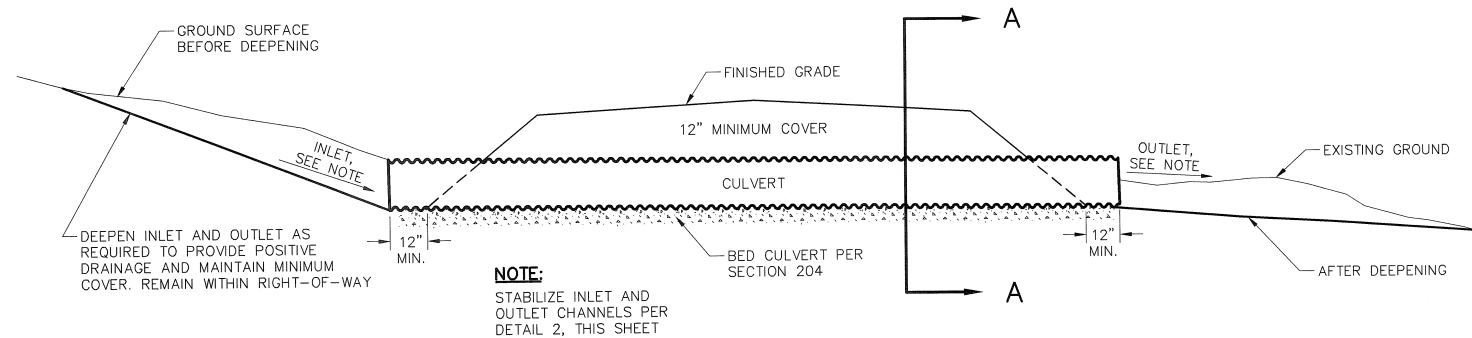


1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
 2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) ACROSS THE WIDTH OF THE RECP'S.
 3. ROLL CENTER RECP'S IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 4. PLACE CONSECUTIVE RECP'S END OVER END (SHINGLE STYLE) WITH A 4" - 6" (10 CM - 15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER TO SECURE RECP'S.
 5. FULL LENGTH EDGE OF RECP'S AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
 6. ADJACENT RECP'S MUST BE OVERLAPPED APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) (DEPENDING ON RECP'S TYPE) AND STAPLED.
 7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9 M - 12 M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
 8. THE TERMINAL END OF THE RECP'S MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- NOTE:
 * IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP'S.



CRITICAL POINTS
 A. OVERLAPS AND SEAMS
 B. PROJECTED WATER LINE
 C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTE:
 * HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
 ** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE RECP'S.



1 TYPICAL CULVERT SECTION
 F.1 -NTS-

2 CHANNEL INSTALLATION
 F.1 -NTS-



Z:\AA_Jobs\ovcp_napakiaak-1541.f-10\iteration_3 (100%)\master\F01-F04 (drainage details).dwg

REV.	DATE	DESCRIPTION	BY



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 STREETS IMPROVEMENTS
 NAPAKIAK, ALASKA

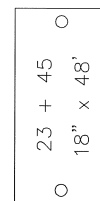
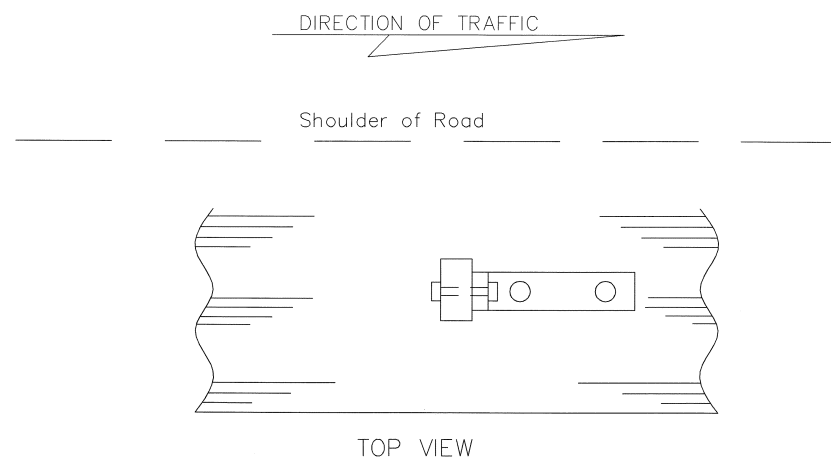
DRAINAGE DETAILS

DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: NTS

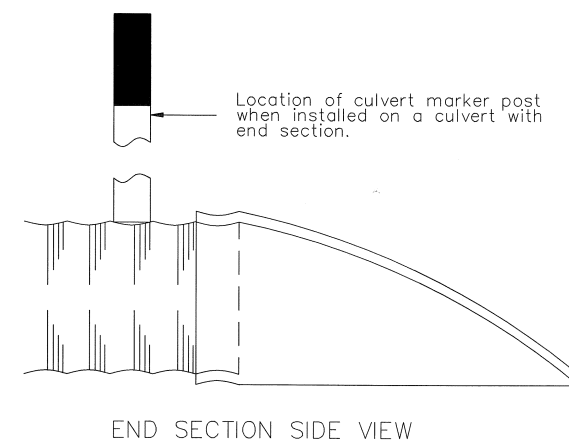
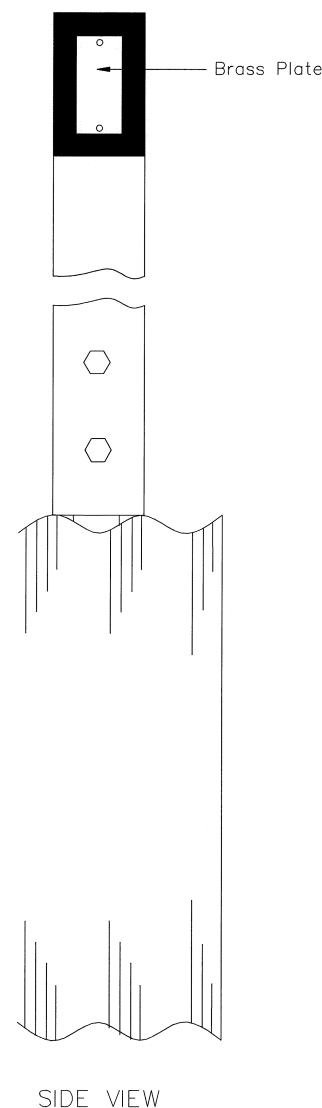
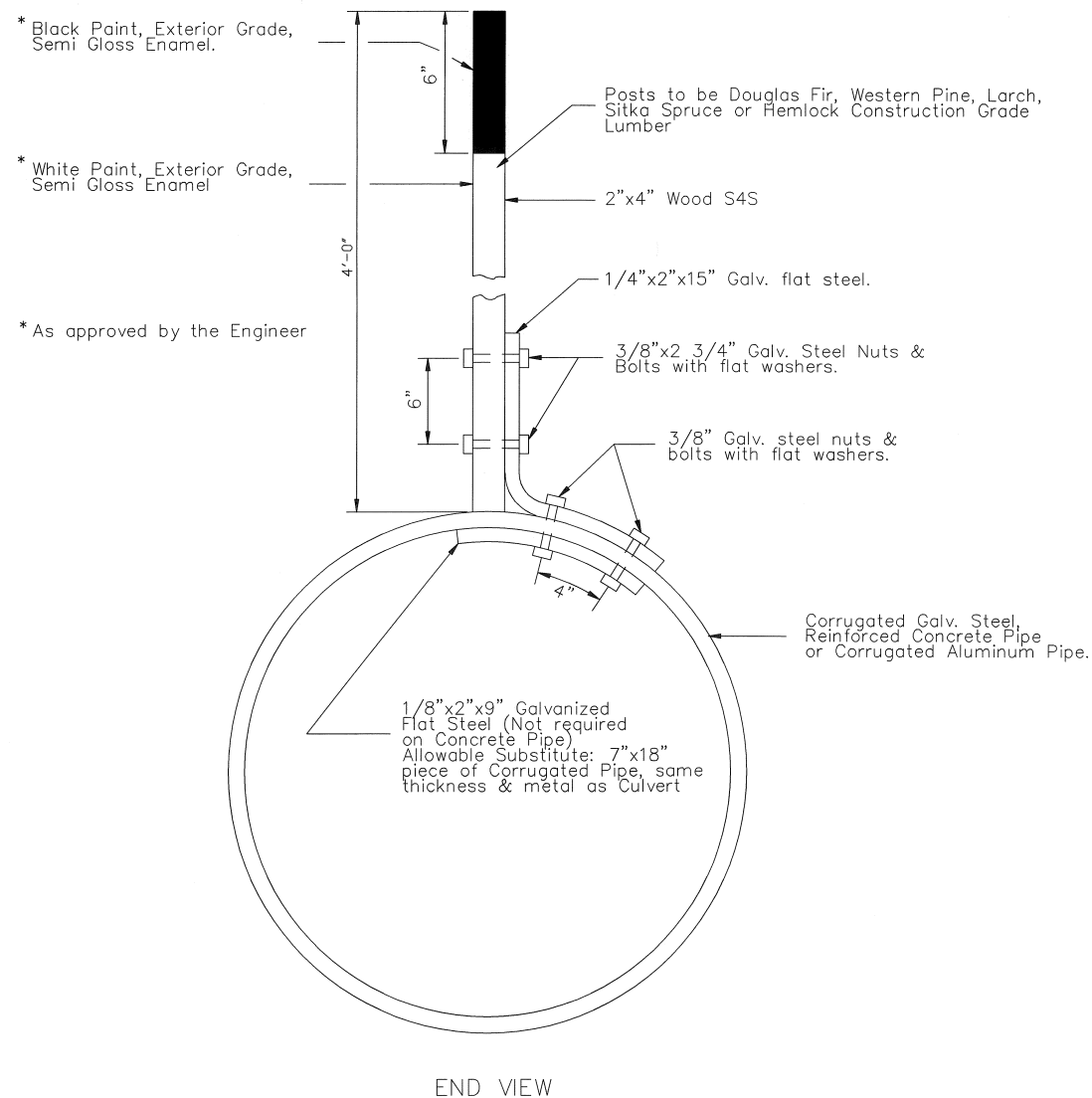
SHEET NO.
 F.1

GENERAL NOTES:

- Culvert marker post shall be installed with galvanized steel hardware meeting the following requirements: Galvanizing for nuts and washers shall meet the requirements of ASTM A-153, Class C. Galvanizing for steel mounting supports shall meet the requirements of MIL-P-26915A, or ASTM A-153, Class C.



Sta. and size of Culvert to be stamped into a 2"x4"x0.064" thick brass plate, fastened, with No. 8 round head brass screws, to the marker post as shown. Plate to be on side of post facing traffic.



REVISIONS		
Date	Description	By

State of Alaska
Department of Transportation
& Public Facilities

CULVERT MARKER POST

A
P
P
R
O
V
E
D

Date 7/15/82

D-09.00

Z:\AA_Jobs\ovp napakiak-1541.f-10\iteration 3 (100%)\master\F01-F04 (drainage details).dwg

REV.	DATE	DESCRIPTION	BY



ASSOCIATION OF VILLAGE
COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

NAPAKIAK COMMUNITY
STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

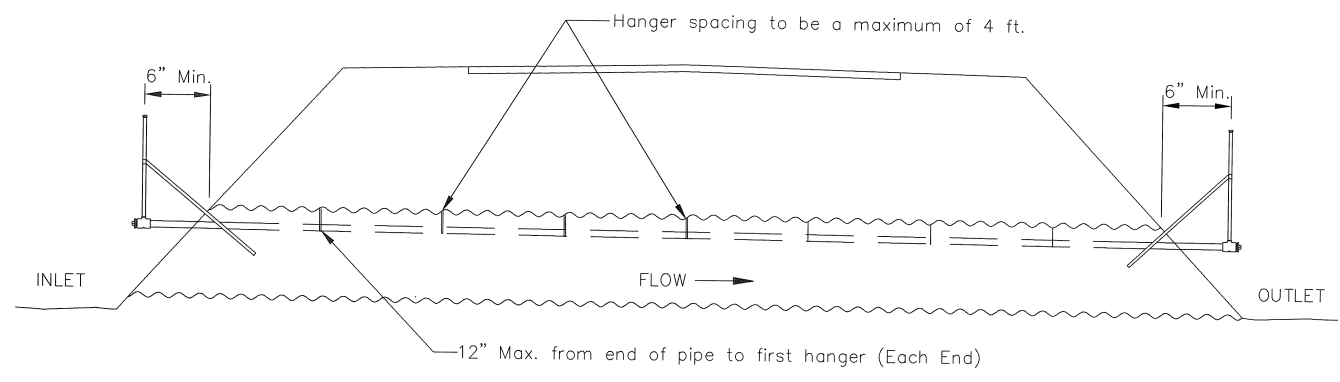
ADOT STANDARD DRAWINGS
D-09.00

DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: NTS

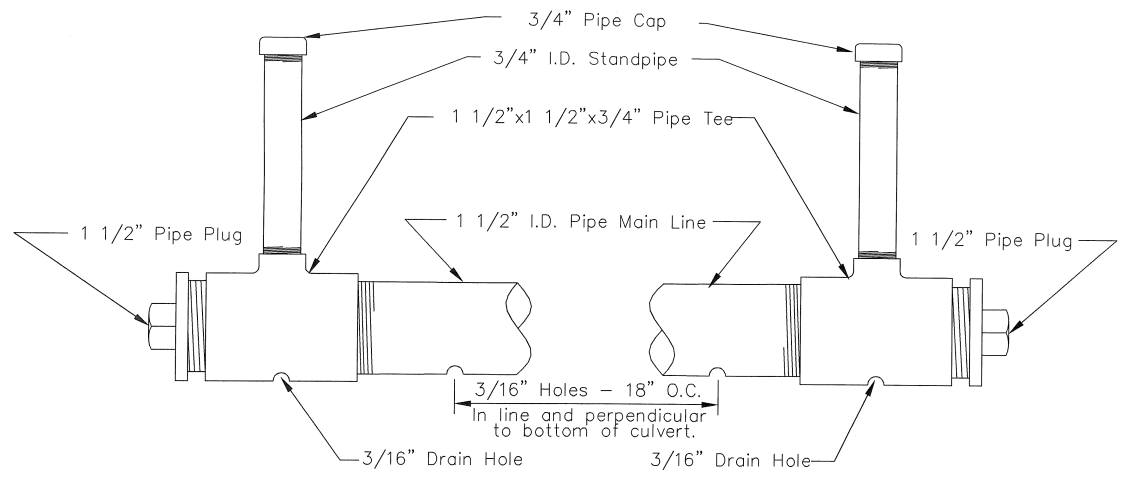
SHEET NO.
F.2

GENERAL NOTES:

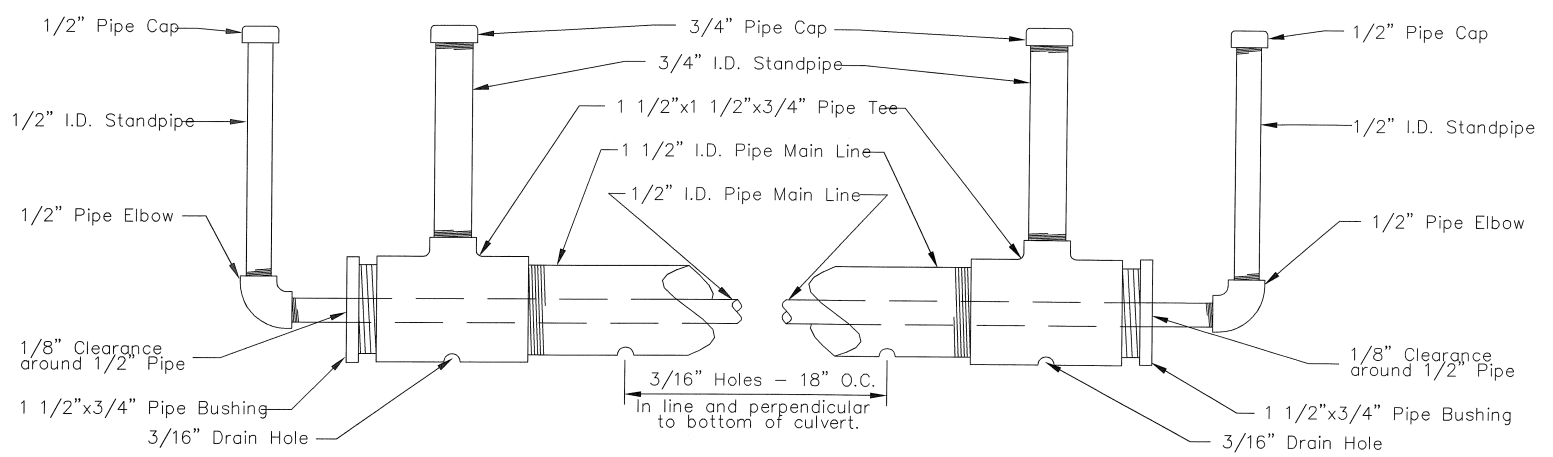
1. All material and workmanship shall be in accordance with the State of Alaska, Standard Specifications for Highway Construction, latest edition.
2. Height of all Standpipes to be 1/2 the height of culvert cover or 5' whichever is less.
3. 1/2" main line and standpipes to be liquid tight and filled with 50-50 antifreeze.
4. Standpipe braces to be field bent and attached to culvert with standard structural plate pipe bolts.
5. 1/2" Thaw pipe shall be braced as shown above.



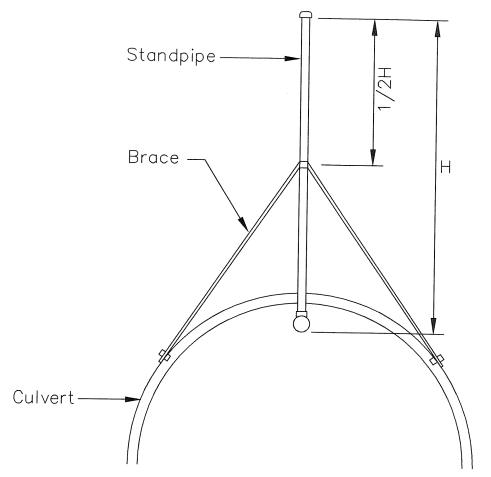
LOCATION OF THAW PIPE



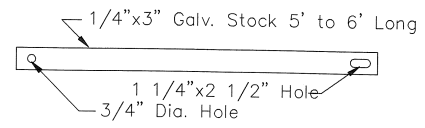
STANDARD SINGLE THAW PIPE



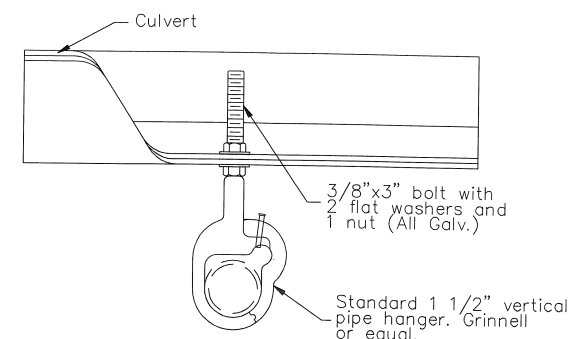
DOUBLE THAW PIPE
To be used where indicated on the plans.



LOCATION OF STANDPIPE BRACE



STANDPIPE BRACE DETAIL



THAW PIPE HANGER DETAIL

REVISIONS		
Date	Description	By
3/1/83	Revised Gen. Notes	Gdo
1/1/86	Revised Hanger Detail	Gdo

State of Alaska
Department of Transportation
& Public Facilities

CULVERT THAW PIPE

A
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Date 7/15/82

D-10.02

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NAPAKIAK COMMUNITY
STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

ADOT STANDARD DRAWINGS
D-10.02

DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: NTS

SHEET NO.
F.3

STATE	ROUTE	SECTION	TOWNSHIP	RANGE	MERIDIAN	YEAR
ALASKA	-	18	7 N	73 W	SEWARD	2012

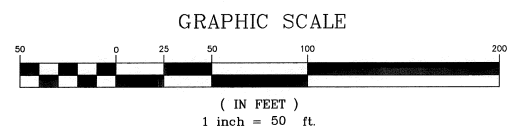
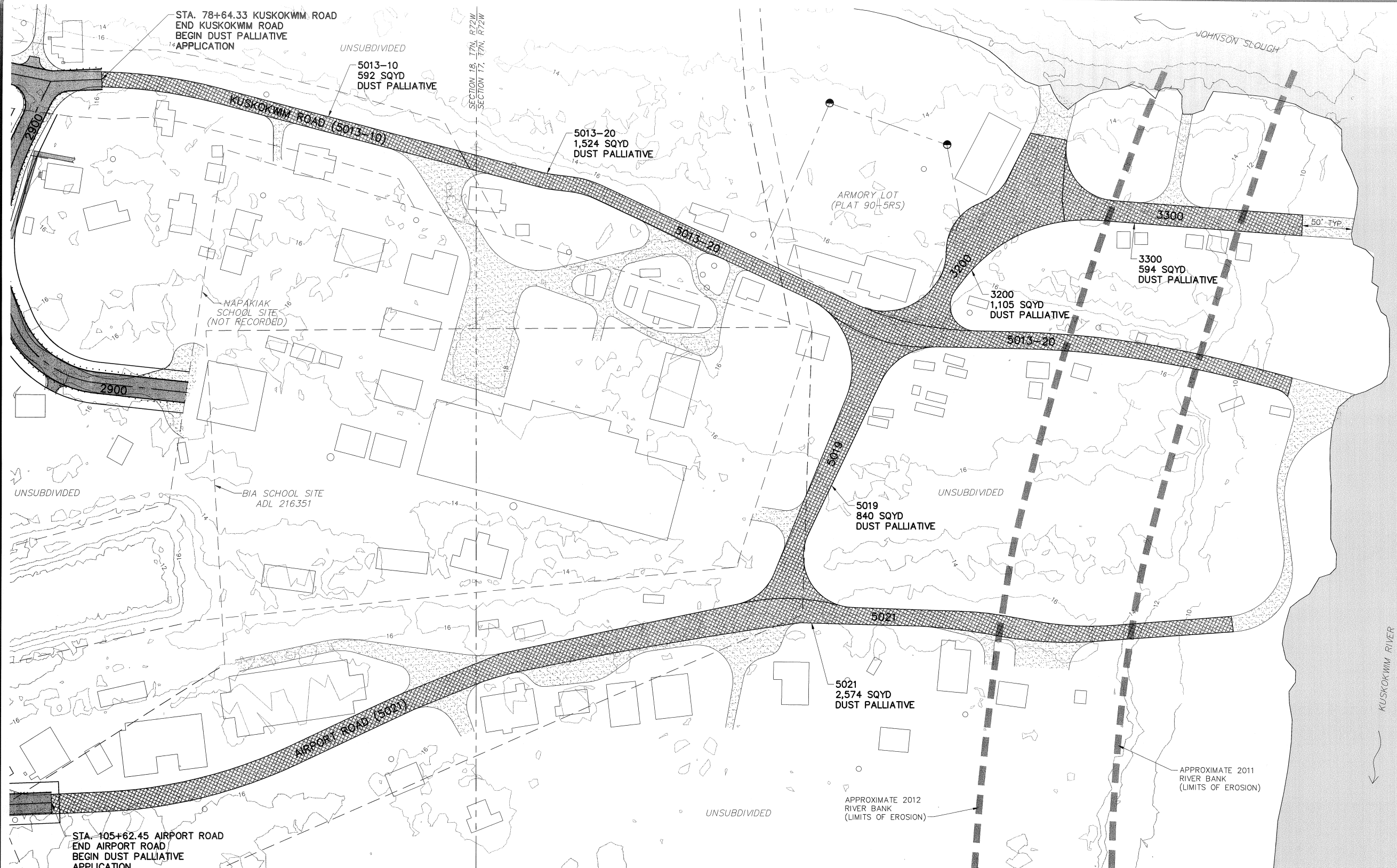


LEGEND
(THIS SHEET ONLY)

DUST PALLIATIVE ONLY LIMITS

APPROXIMATE LIMITS OF BANK EROSION

- NOTES:**
1. APPLY DUST PALLIATIVE ON EXISTING ROAD SURFACES FROM SHOULDER TO SHOULDER ALONG DESIGNATED LENGTH OF ROADS.
 2. DUST PALLIATIVE APPLICATION SHALL BE UNIFORM THROUGH ROAD SURFACE WITH NO GAPS AND MINIMAL OVERLAPS.
 3. DUST PALLIATIVE SHALL NOT BE APPLIED ON ROAD SURFACES WITHIN 50 FEET OF THE KUSKOKWIM RIVER OR JOHNSON SLOUGH.
 4. DUST PALLIATIVE APPLICATION SHALL BE ADJUSTED AT TIME OF CONSTRUCTION BASED ON CURRENT KUSKOKWIM RIVER BANK LOCATION.



Z:\AA_Jobs\ovp napakiak-1541-1-10\iteration_3 (100%)\master\G.1 (dust palliative).dwg

REV.	DATE	DESCRIPTION	BY



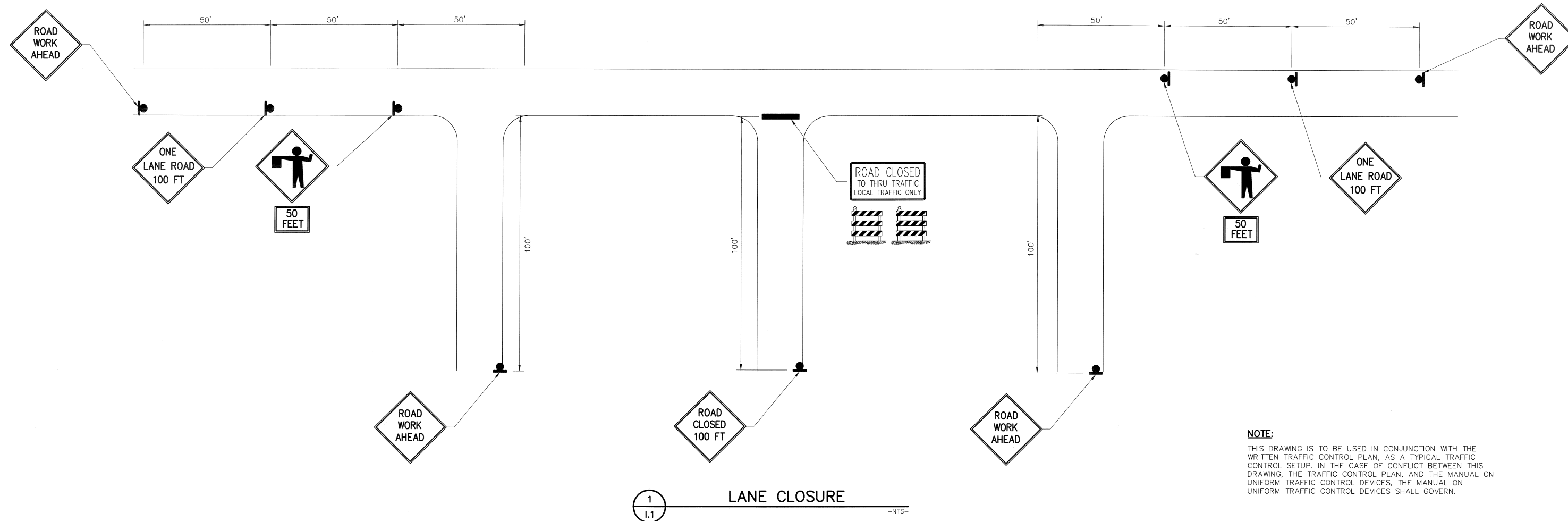
ASSOCIATION OF VILLAGE COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

NAPAKIAK COMMUNITY STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

DUST PALLIATIVE PLAN

DESIGNED BY: MIB
DRAWN BY: CCR
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: 1" = 50'

SHEET NO.
G.1



Z:\AA_jobs\ovcp napakiak-1541.f-10\iteration 3 (100%)\master\01-02 (traffic control).dwg

REV.	DATE	DESCRIPTION	BY



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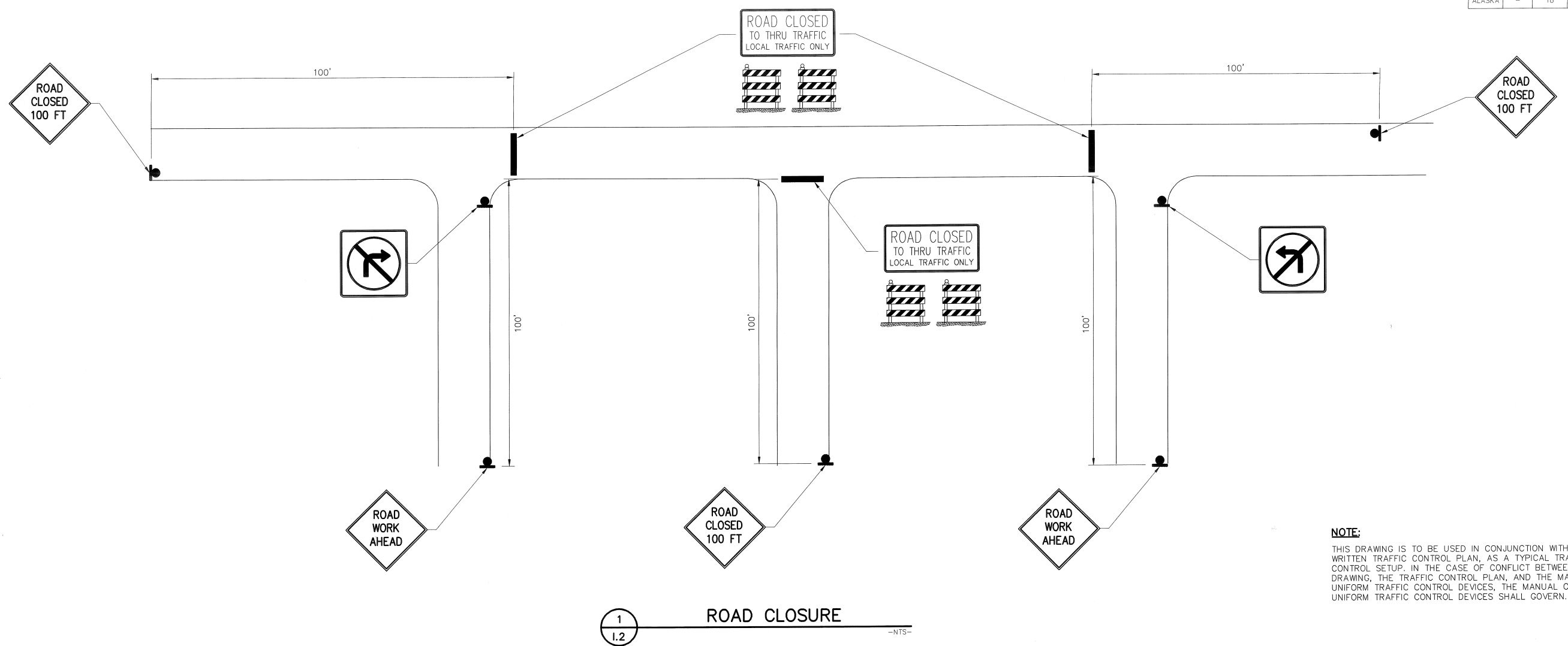
NAPAKIAK COMMUNITY STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

TRAFFIC CONTROL PLANS
LANE CLOSURE

DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: NTS

SHEET NO.
1.1





NOTE:
 THIS DRAWING IS TO BE USED IN CONJUNCTION WITH THE WRITTEN TRAFFIC CONTROL PLAN, AS A TYPICAL TRAFFIC CONTROL SETUP. IN THE CASE OF CONFLICT BETWEEN THIS DRAWING, THE TRAFFIC CONTROL PLAN, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SHALL GOVERN.



Z:\AA_jobs\avcp_napakiaik-1541-f-10\iteration 3 (100%)\master\01-102 (traffic control).dwg

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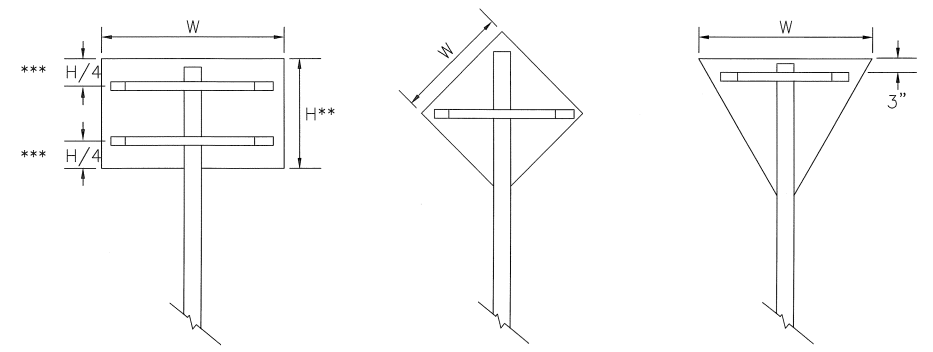
NAPAKIAK COMMUNITY STREETS IMPROVEMENTS
 NAPAKIAK, ALASKA

TRAFFIC CONTROL PLANS
 ROAD CLOSURE

DESIGNED BY: MIB
 DRAWN BY: JCS
 APPROVED BY: BLP
 DATE: SEPTEMBER 28, 2012
 SCALE: NTS

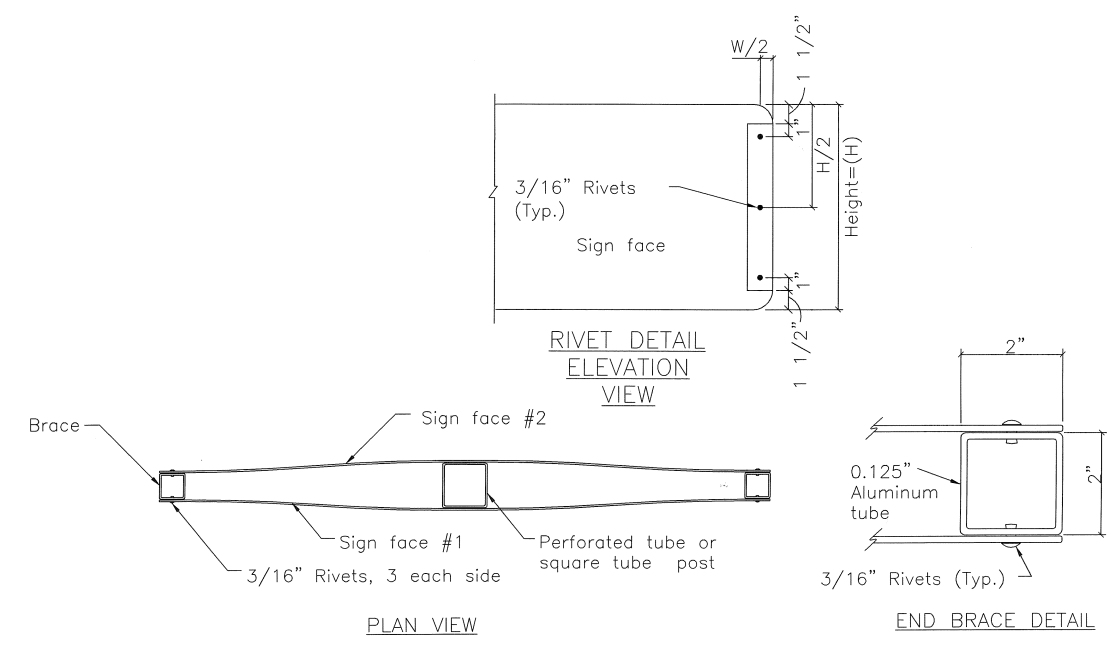
SHEET NO.
 1.2

S-01.00

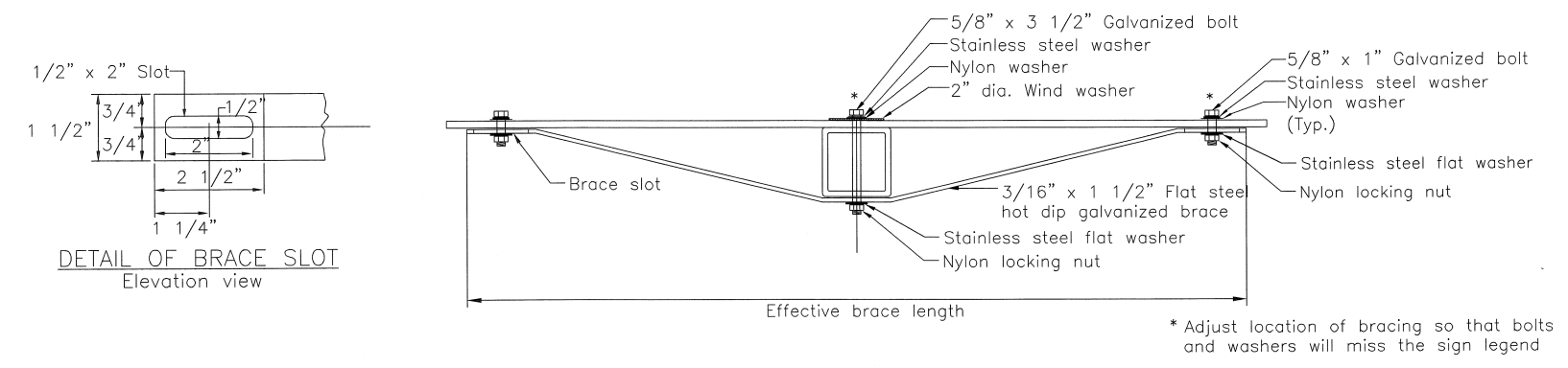


*** Use one brace when $H \leq 18"$
 Use two braces when $18" < H < 48"$
 Use three braces when $H \geq 48"$
 ** Position of brace may be varied to match
 Pre-drilled mounting holes in panel

SIGN BRACING PLACEMENT



SMALL STREET NAME SIGN (D3-1, D3-1A, D3-1D) BRACING DETAILS



* Adjust location of bracing so that bolts and washers will miss the sign legend

TUBE POST SIGN BRACING
Plan view

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

< 30" No bracing required and use square tube

REVISIONS		
Date	Description	By

Sheet 1 of 1

State of Alaska
 Department of Transportation
 & Public Facilities

**BRACING FOR SIGNS
 MOUNTED ON SINGLE POST**

A
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O
V
E
D

Date 2/28/03

S-01.00

Z:\AA_Jobs\vacp napakiak-1541.f-10\Iteration 3 (100%)\master\01-04 (permanent traffic control).dwg

REV.	DATE	DESCRIPTION	BY



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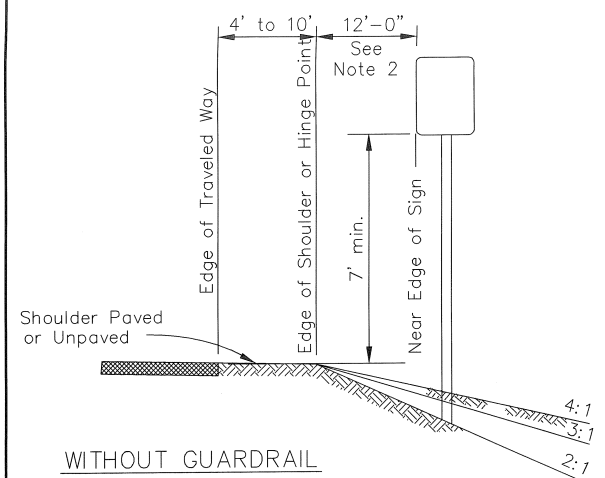
NAPAKIAK COMMUNITY
 STREETS IMPROVEMENTS
 NAPAKIAK, ALASKA

ADOT STANDARD DRAWINGS
 S-01.00

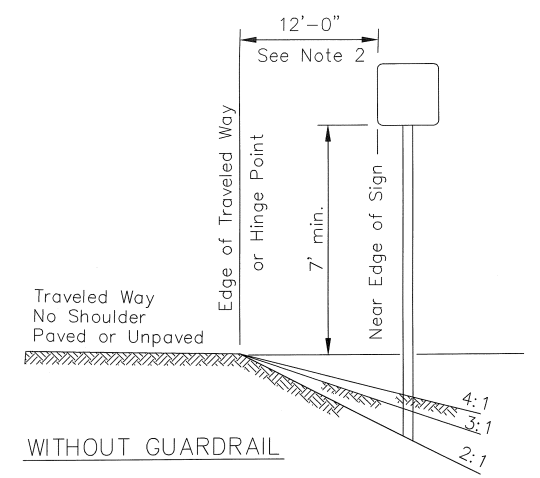
DESIGNED BY: MIB
 DRAWN BY: JCS
 APPROVED BY: BLP
 DATE: SEPTEMBER 28, 2012
 SCALE: NTS

SHEET NO.
 J.1

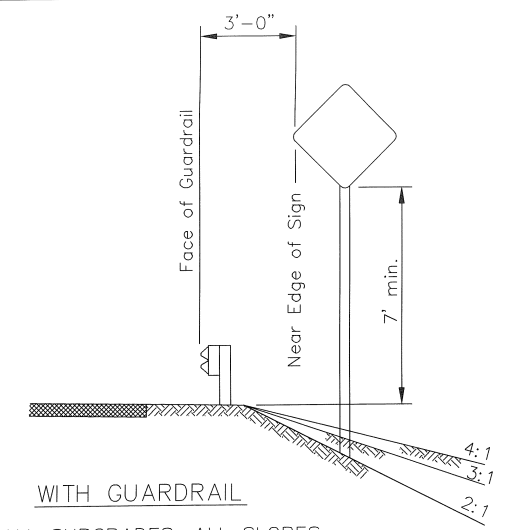
S-05.01



WITHOUT GUARDRAIL
SUBGRADES OVER 28', ALL SLOPES

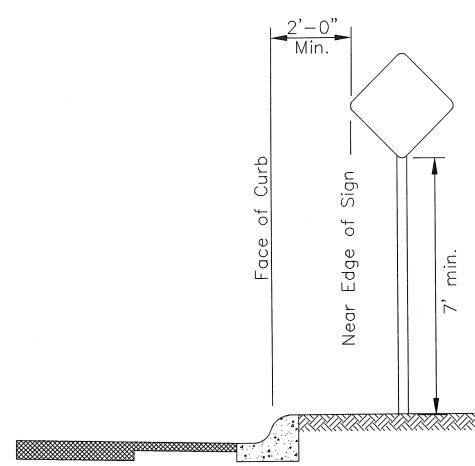


WITHOUT GUARDRAIL
SUBGRADES 24' TO 28', ALL SLOPES

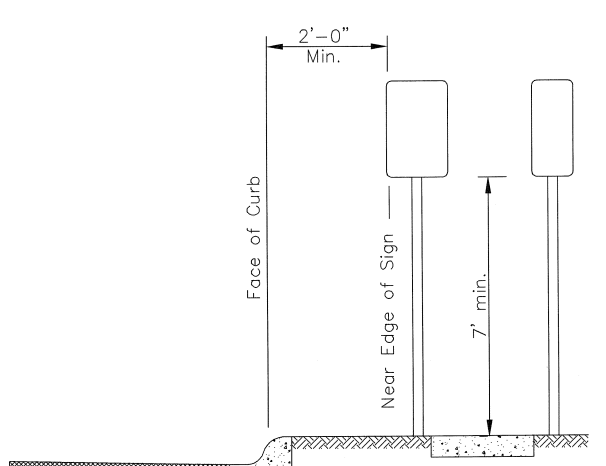


WITH GUARDRAIL
ALL SUBGRADES, ALL SLOPES

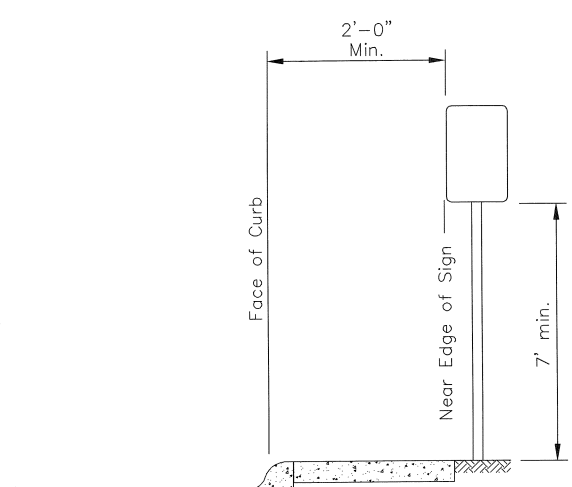
- GENERAL NOTES**
1. Unless shown otherwise on the plans, the standard sign offset is 12'. The minimum is 6'.
 2. If signs extend over sidewalks, the minimum vertical clearance is 7'-0".
 3. Add 6" to mounting height on unpaved roads.
 4. If signs extend over bike paths, the minimum vertical clearance is 8' 0".
 5. When signs are placed 30' or more from the edge of traveled way, mount them with the bottom of the sign at least 5' above the road surface at the near edge of the road.
 6. When multiple hinged sign supports are used, mount hinges at least 7' above the ground.



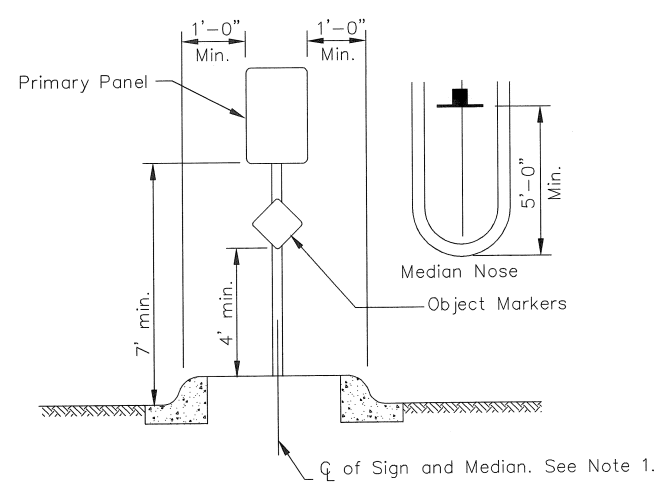
CURB WITHOUT SIDEWALK



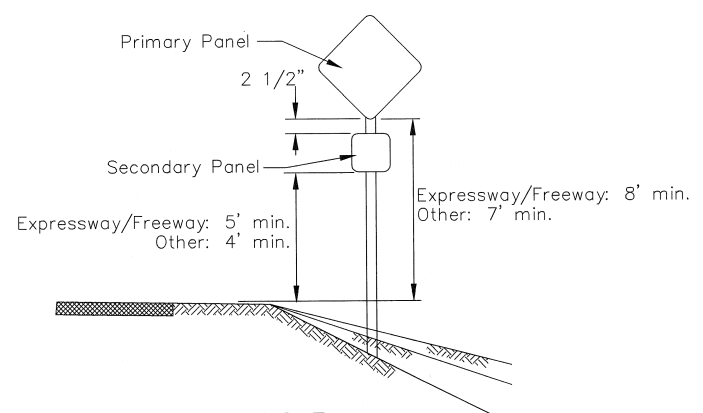
CURB WITH PARKWAY AND SIDEWALK
(If R/W width permits, signs should be placed behind sidewalk.)



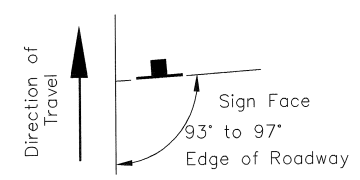
CURB WITH SIDEWALK WITHOUT PARKWAY



RAISED MEDIANS
Minimum 4' Width for Signing



SECONDARY PANEL HEIGHT
ALL TWO PANEL MOUNTING



SIGN POSITIONING

REVISIONS		
Date	Description	By
4/3/01	Revised Sign Heights	KJS

Sheet 1 of 1

State of Alaska
Department of Transportation
& Public Facilities

**POST MOUNTED SIGN
OFFSET AND HEIGHT**

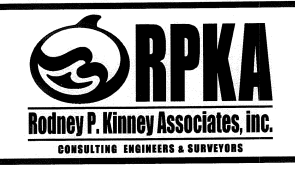
APPROVED

Date 7/15/82

S-05.01

Z:\AA_jobs\avcp_napakia-1541.r-10\Iteration 3 (100%)\master\01-04 (permanent traffic control).dwg

REV.	DATE	DESCRIPTION	BY



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COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

NAPAKIAK COMMUNITY
STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

ADOT STANDARD DRAWINGS
S-05.01

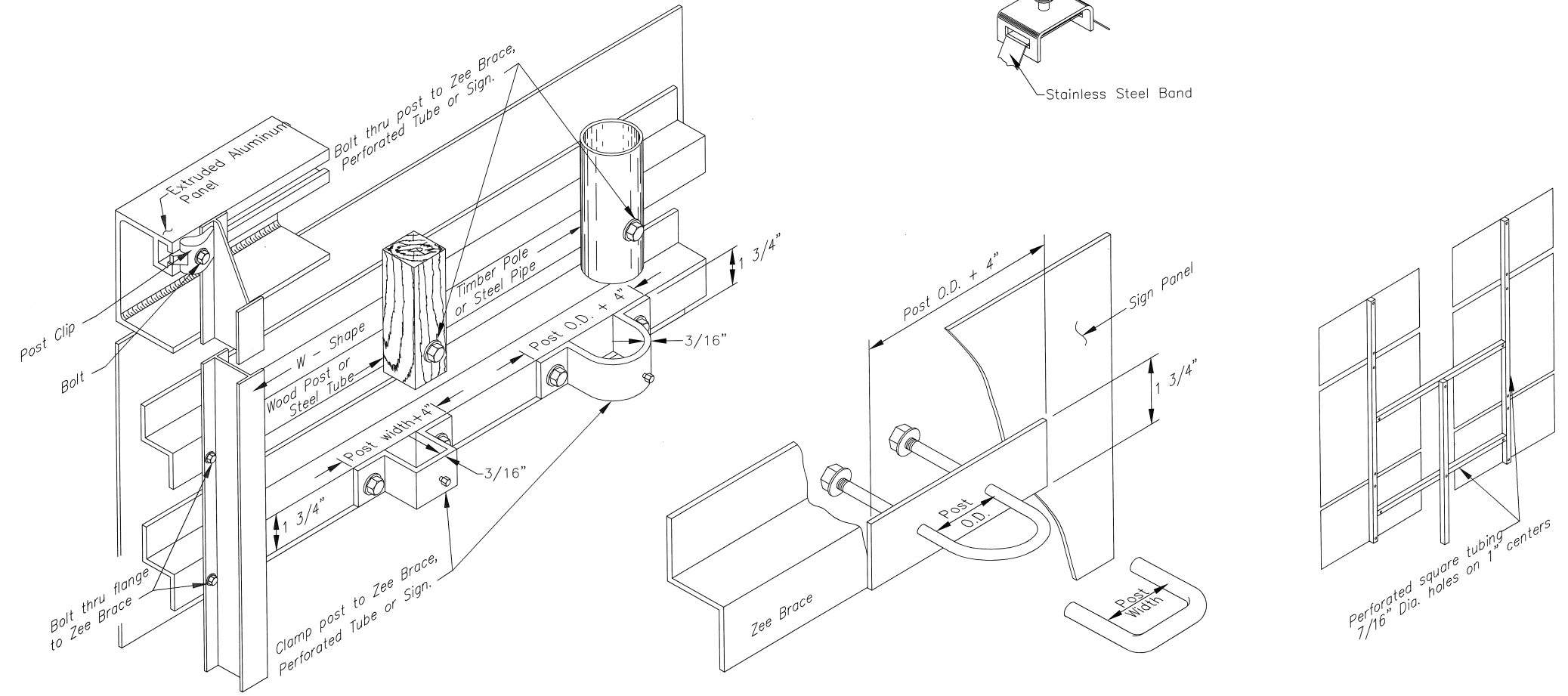
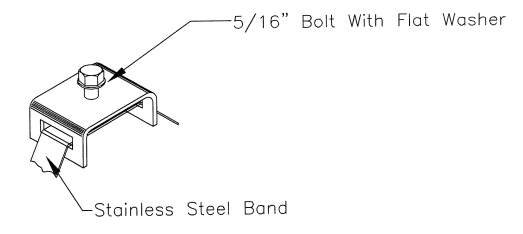
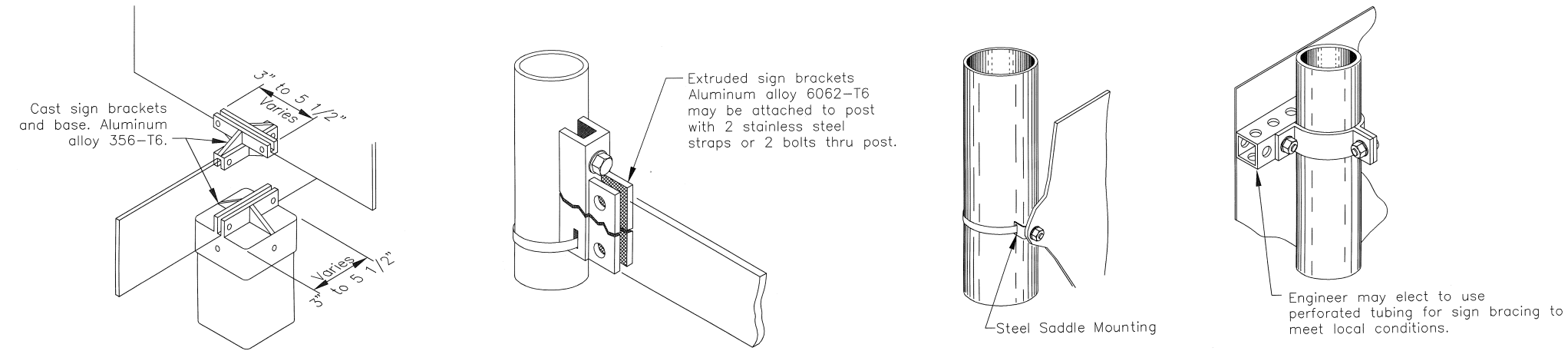
DESIGNED BY: MIB	SHEET NO. J.2
DRAWN BY: JCS	
APPROVED BY: BLP	
DATE: SEPTEMBER 28, 2012	
SCALE: NTS	

S-20.10

GENERAL NOTES

1. Details shown indicate general design only. Dimensions and design may vary among the manufacturers.
2. Install weather tight caps on all pipe and tube post (except perforated tubing).
3. Protect sign posts installed using driving methods with drive caps during installation.
4. Bolt braces to posts at each point where they cross posts.
5. Install signs with top of post, mounting brackets, etc. with a minimum of 3" below top of sign.
6. Paint all sign mounting fasteners on sign face a color closely matching the sign face.
7. Attach all signs, zees and braces mounted to the posts with 5/16" bolts.
8. Furnish all aluminum nuts, bolts and washers with anodized finish.

FASTENERS		ALUMINUM	STEEL	STAINLESS STEEL
BOLTS	MACHINE CARRIAGE "U"	2024-T4	A-307	A-276
NUTS	REGULAR LOCK	6061-T6 2017-T4	A-307	A-276
WASHERS		2024-T4	A-36	A-276
POST CLIP		356-T6		



REVISIONS		
Date	Description	By

Sheet 1 of 1

State of Alaska
Department of Transportation & Public Facilities

SIGN TO SIGN POST CONNECTIONS

A
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E
D

Date 2/28/03

S-20.10

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REV.	DATE	DESCRIPTION	BY

RPKA
Rodney P. Kinney Associates, Inc.
CONSULTING ENGINEERS & SURVEYORS

ASSOCIATION OF VILLAGE COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

NAPAKIAK COMMUNITY STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

ADOT STANDARD DRAWINGS
S-20.10

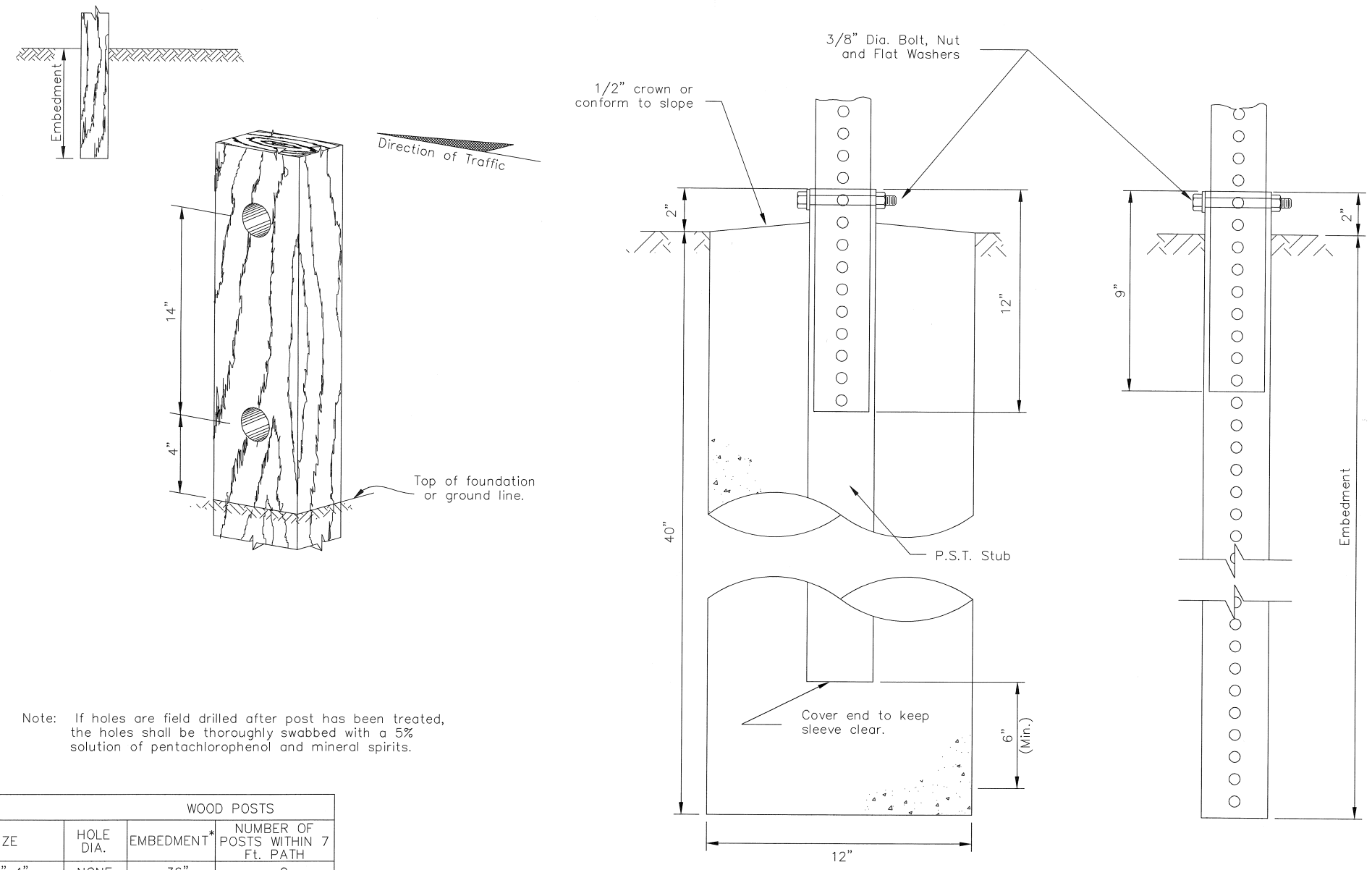
DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: NTS

SHEET NO.
J.3

S-30.03

GENERAL NOTES:

1. Refer to Standard Drawing "Sheet Aluminum Sign and Framing" for light sign details.
2. See plans for type of post, size and embedment type.
3. To maintain crashworthiness, install no more than the number of P.S.T.s or wood posts specified in the tables within 7' of each other.
4. Do not install wood posts larger than 6"x8".
5. Use larger posts than shown on this sheet, with hinges, for multiple support signs where the supports are separated by more than 7 feet.



Note: If holes are field drilled after post has been treated, the holes shall be thoroughly swabbed with a 5% solution of pentachlorophenol and mineral spirits.

SIZE	HOLE DIA.	EMBEDMENT*	NUMBER OF POSTS WITHIN 7 Ft. PATH
4"x4"	NONE	36"	2
4"x6"	1 1/2"	36"	2
6"x6"	1 1/2"	40"	1
6"x8"	3"	48"	1

* Embedment depth applies in both strong and weak soil.

WOOD POSTS

SLEEVE TYPE
-CONCRETE FOUNDATION-

SLEEVE TYPE *
-SOIL EMBEDMENT-

POST SIZE (inch)	Embedment Depth	No. of P.S.T.s permitted within 7 ft path
1 1/2" x 1 1/2"	3'-0"	2
1 3/4" x 1 3/4"	3'-0"	2
2" x 2"	3'-6"	2
2 1/4" x 2 1/4"	4'-0"	1
2 1/2" x 2 1/2"	4'-6"	1

* Use 3"x3"x3/16" Stub for 2 1/2"x2 1/2" PST Applications.

PERFORATED STEEL TUBE (PST) POSTS

Date	Description	By
1/1/85	Redraft-Delete Post	Gdo
4/2/01	Revised PST table Added note 3	Kjs
2/12/02	Revised Wood Posts	Kjs

Sheet 1 of 1

State of Alaska
Department of Transportation
& Public Facilities

LIGHT SIGN
STRUCTURE POST
EMBEDMENT

APPROVED

Date 7/15/82

S-30.03

Z:\AA_Jobs\ovcp napakiak-1541.f-10\iteration 3 (100%)\mster\01-04 (permanent traffic control).dwg

REV.	DATE	DESCRIPTION	BY



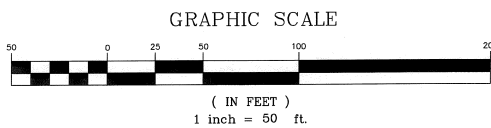
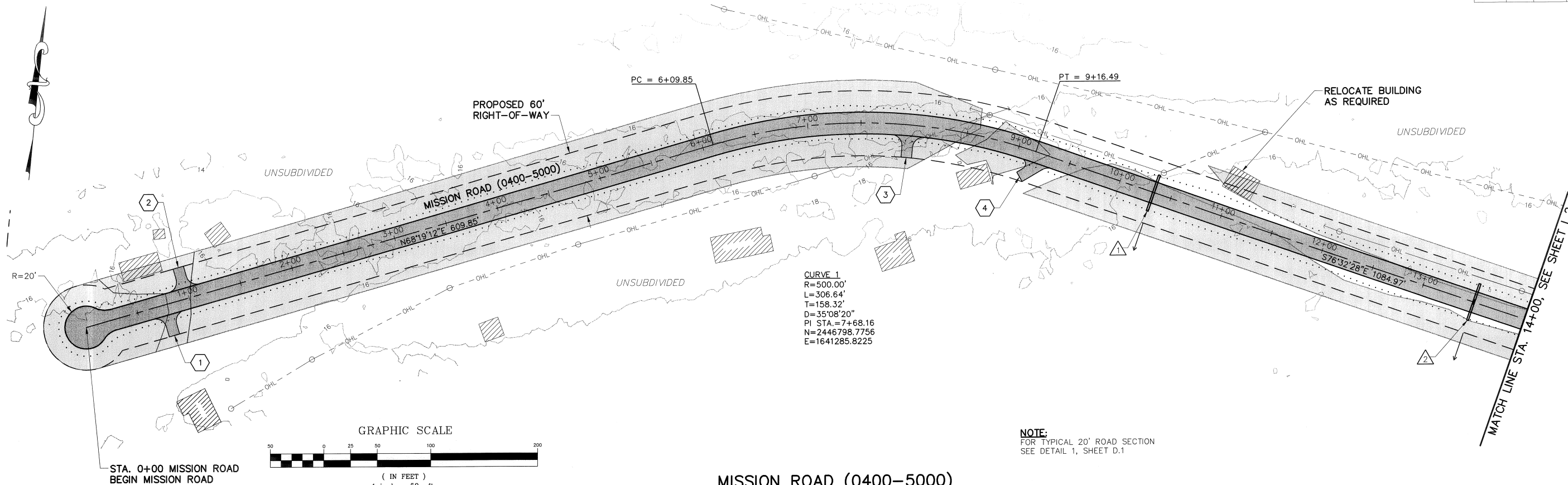
ASSOCIATION OF VILLAGE
COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

NAPAKIAK COMMUNITY
STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

ADOT STANDARD DRAWINGS
S-30.03

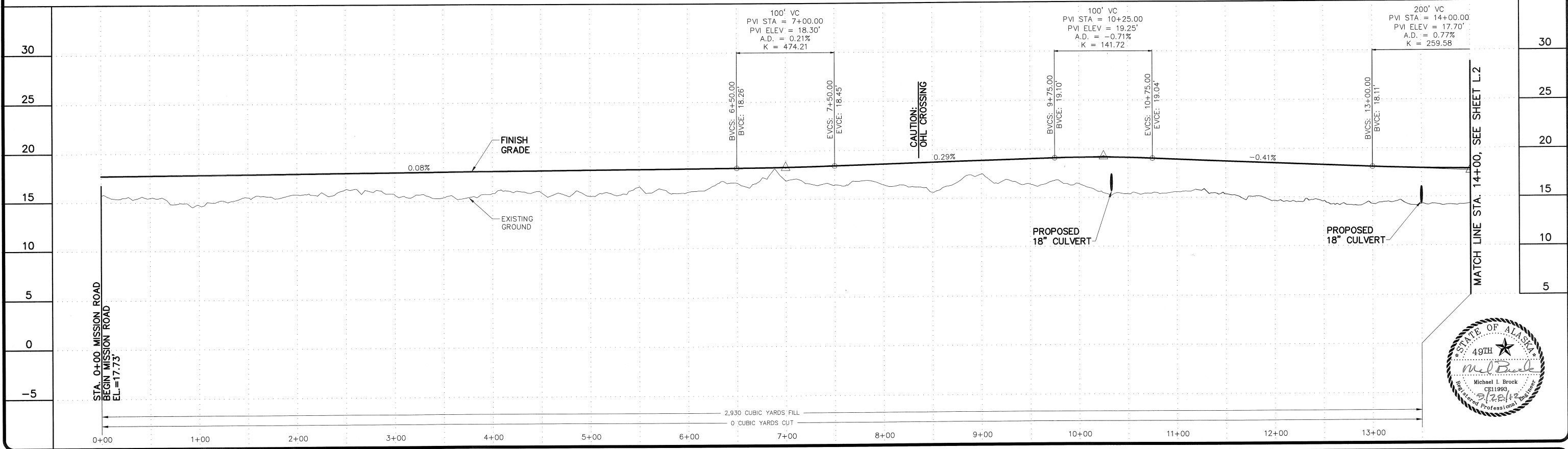
DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: NTS

SHEET NO.
J.4



MISSION ROAD (0400-5000)

NOTE:
FOR TYPICAL 20' ROAD SECTION
SEE DETAIL 1, SHEET D.1



Z:\AA_jobs\avcp napakiak-1541-f-10\iteration 3 (100%)\master\L1-L7 (plan profile).dwg

REV.	DATE	DESCRIPTION	BY



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BETHEL, ALASKA 99559

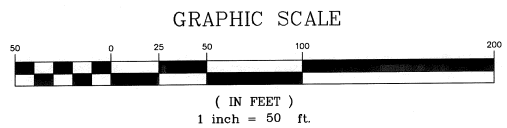
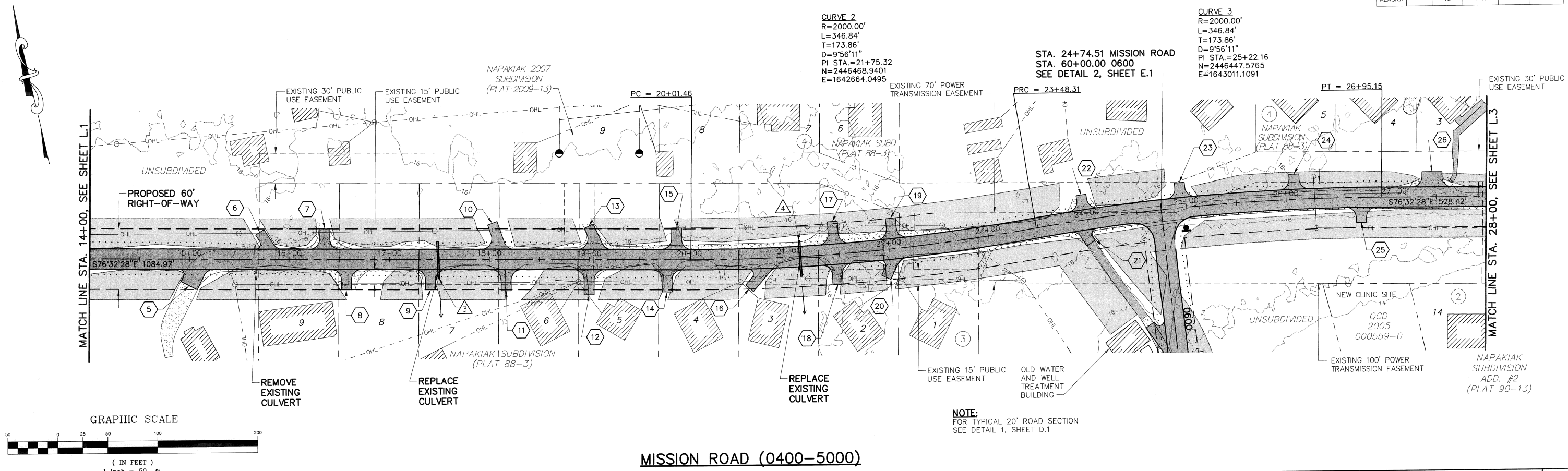
NAPAKIAK COMMUNITY
STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

PLAN/PROFILE
MISSION ROAD
STA. 0+00
TO
STA. 14+00

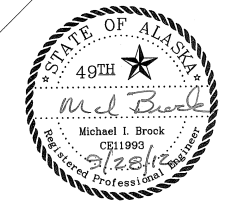
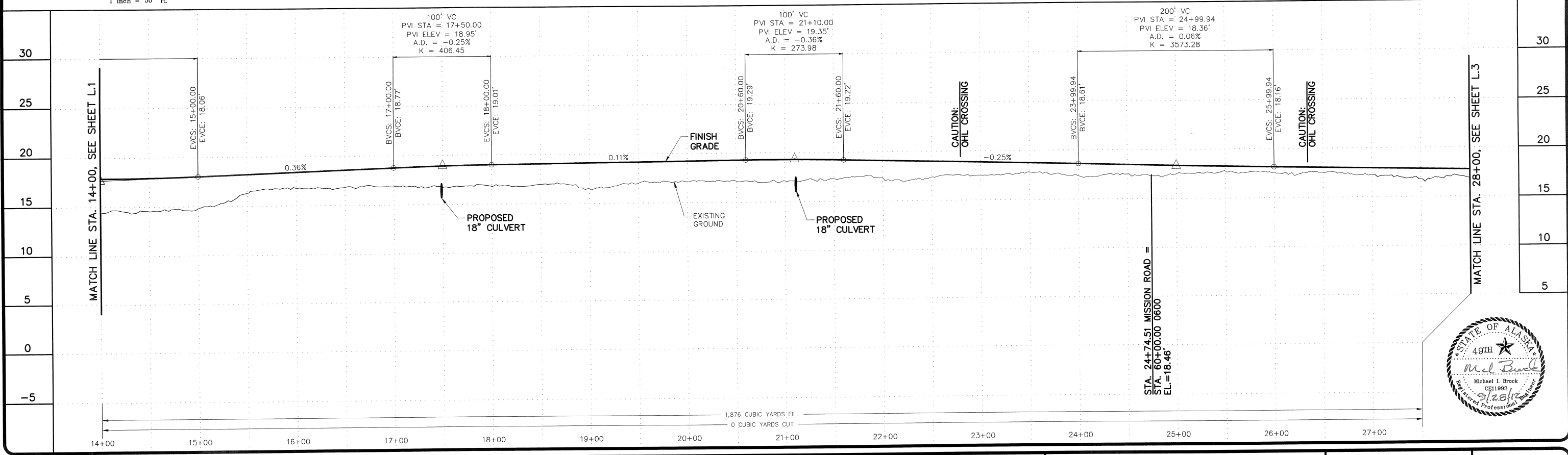
DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: 1" = 50'

SHEET NO.
L.1

STATE	ROUTE	SECTION	TOWNSHIP	RANGE	MERIDIAN	YEAR
ALASKA	-	18	7 N	73 W	SEWARD	2012



MISSION ROAD (0400-5000)



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REV.	DATE	DESCRIPTION	BY

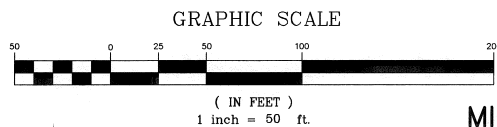
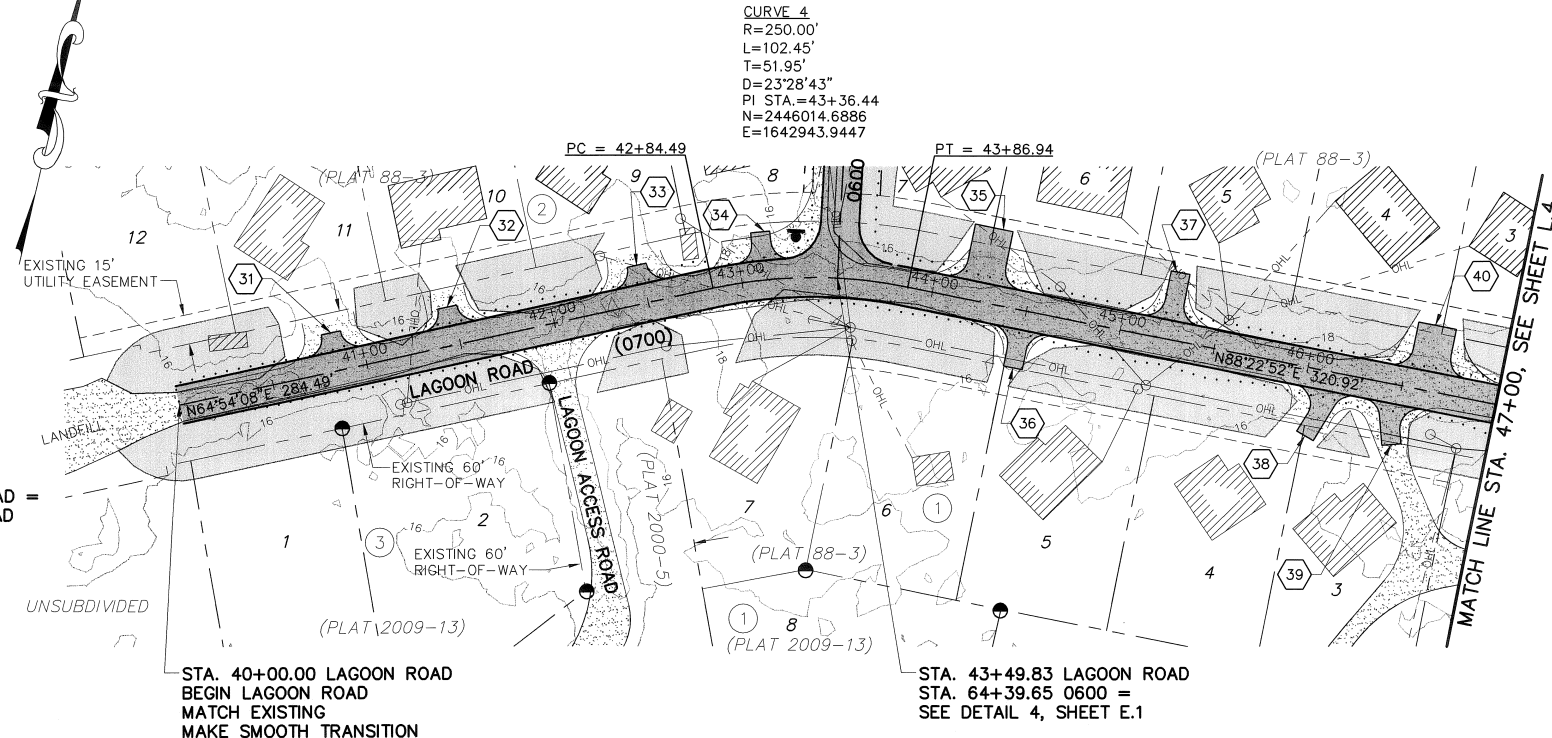
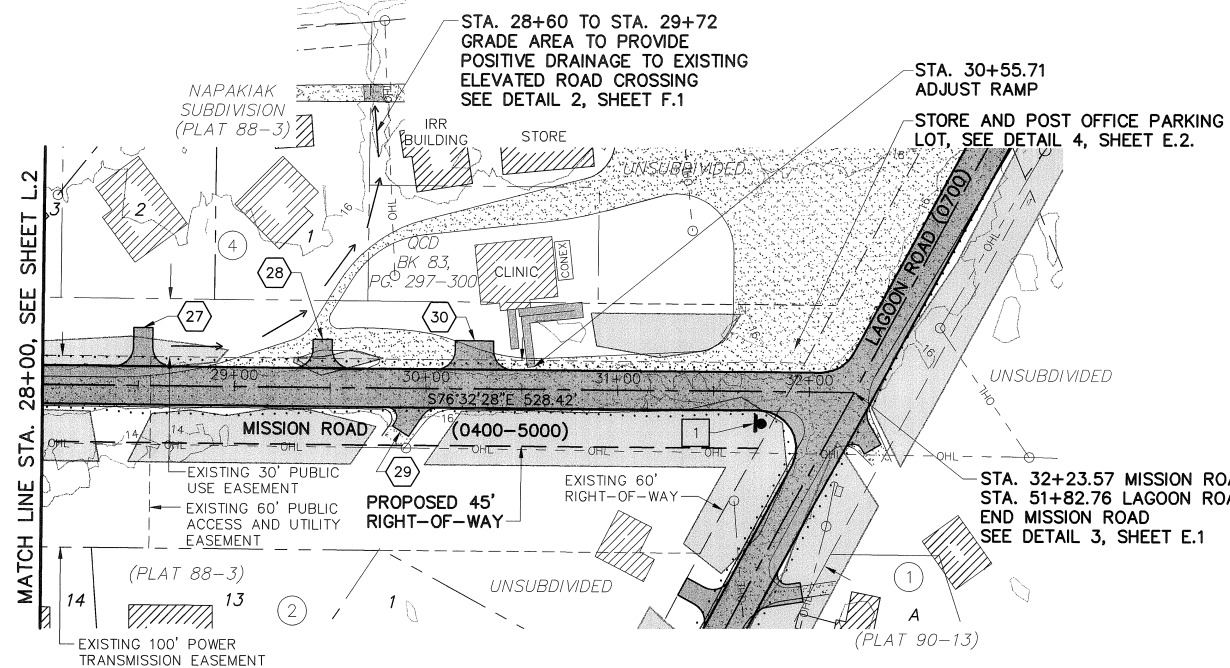


ASSOCIATION OF VILLAGE COUNCIL PRESIDENTS
P.O. BOX 219
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NAPAKIAK COMMUNITY STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

PLAN/PROFILE
MISSION ROAD
STA. 14+00
TO
STA. 28+00

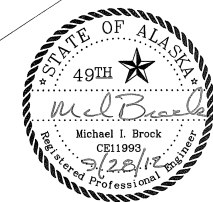
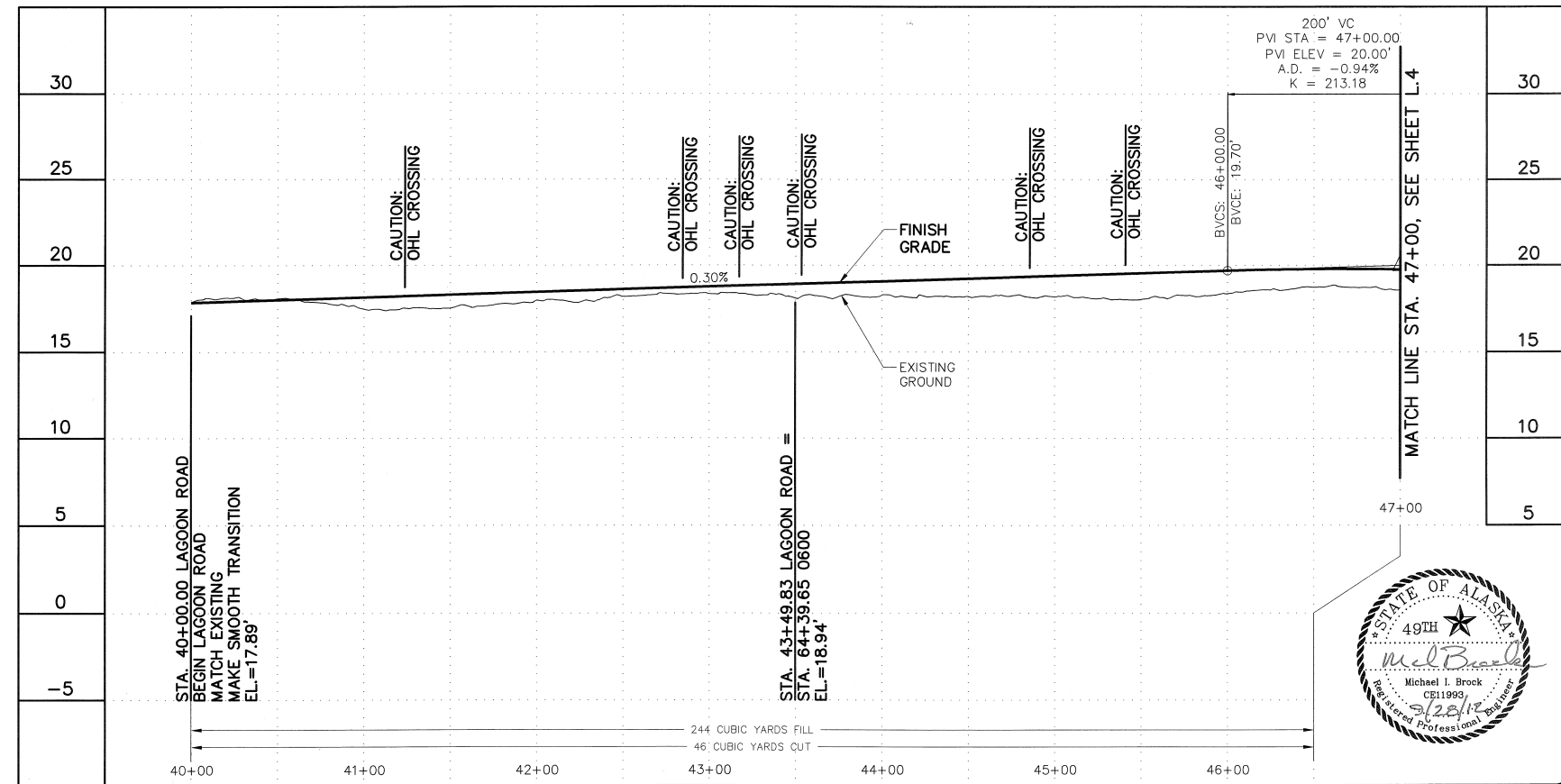
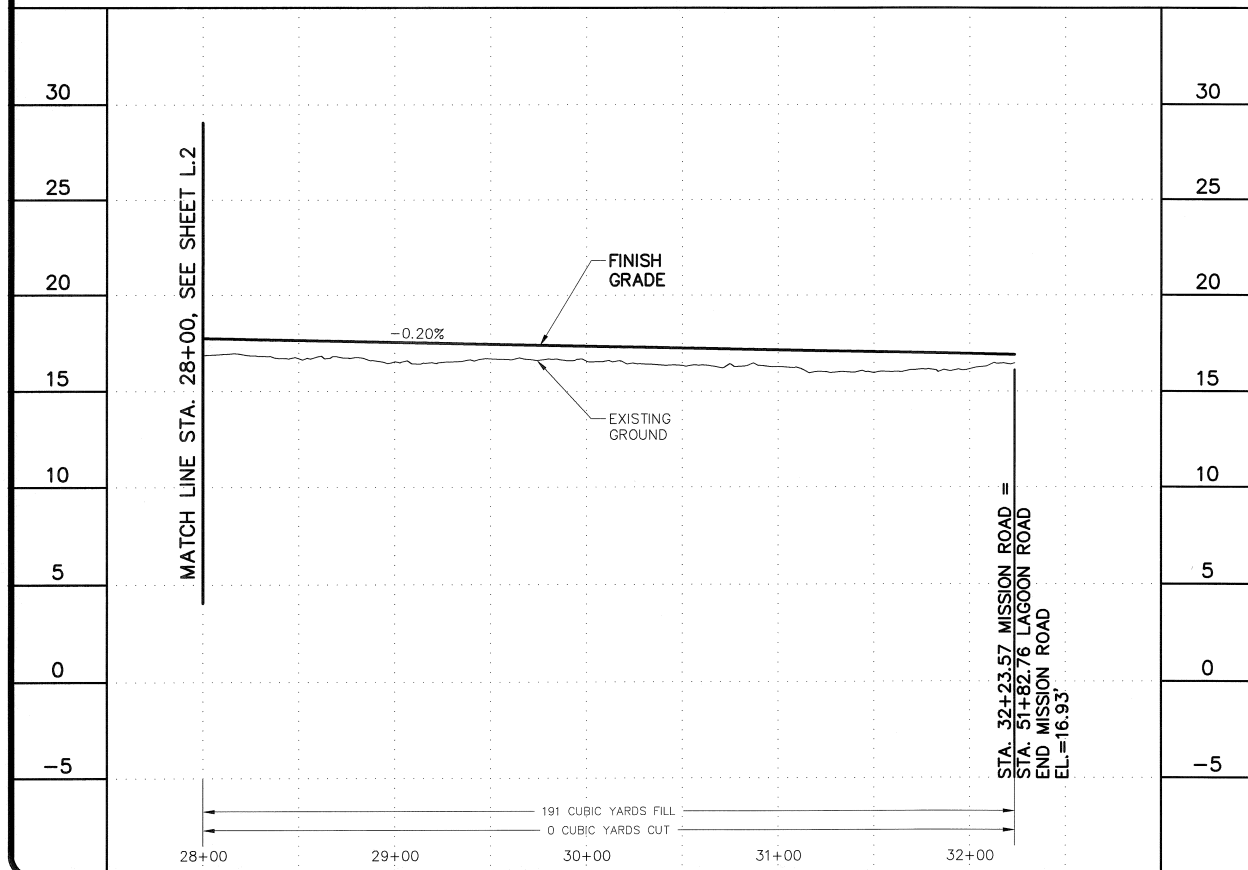
DESIGNED BY: MIB	SHEET NO. L.2
DRAWN BY: JCS	
APPROVED BY: BLP	
DATE: SEPTEMBER 28, 2012	
SCALE: 1" = 50'	



NOTE:
FOR TYPICAL 20' ROAD SECTION
SEE DETAIL 1, SHEET D.1

MISSION ROAD (0400-5000)

LAGOON ROAD (0700)



Z:\AA_jobs\ovcp napakiak-1541-f-10\iteration 3 (100%)\master\1-1-L7 (plan profile).dwg

REV.	DATE	DESCRIPTION	BY



ASSOCIATION OF VILLAGE COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

NAPAKIAK COMMUNITY STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

PLAN/PROFILE
MISSION ROAD STA. 28+00 TO STA. 32+23.57
LAGOON ROAD STA. 40+00 TO STA. 47+00

DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: 1" = 50'

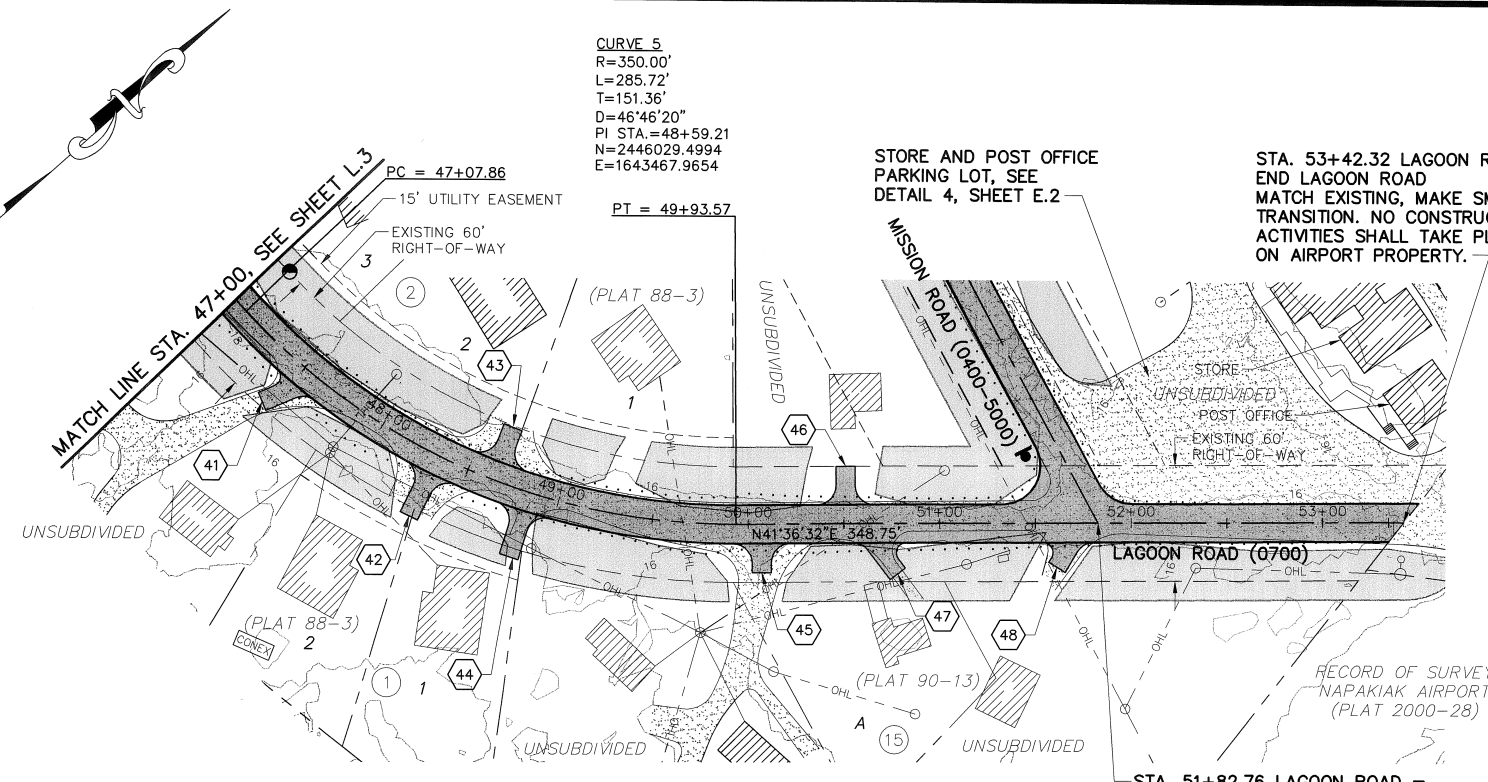
SHEET NO.
L.3

STATE	ROUTE	SECTION	TOWNSHIP	RANGE	MERIDIAN	YEAR
ALASKA	-	18	7 N	73 W	SEWARD	2012

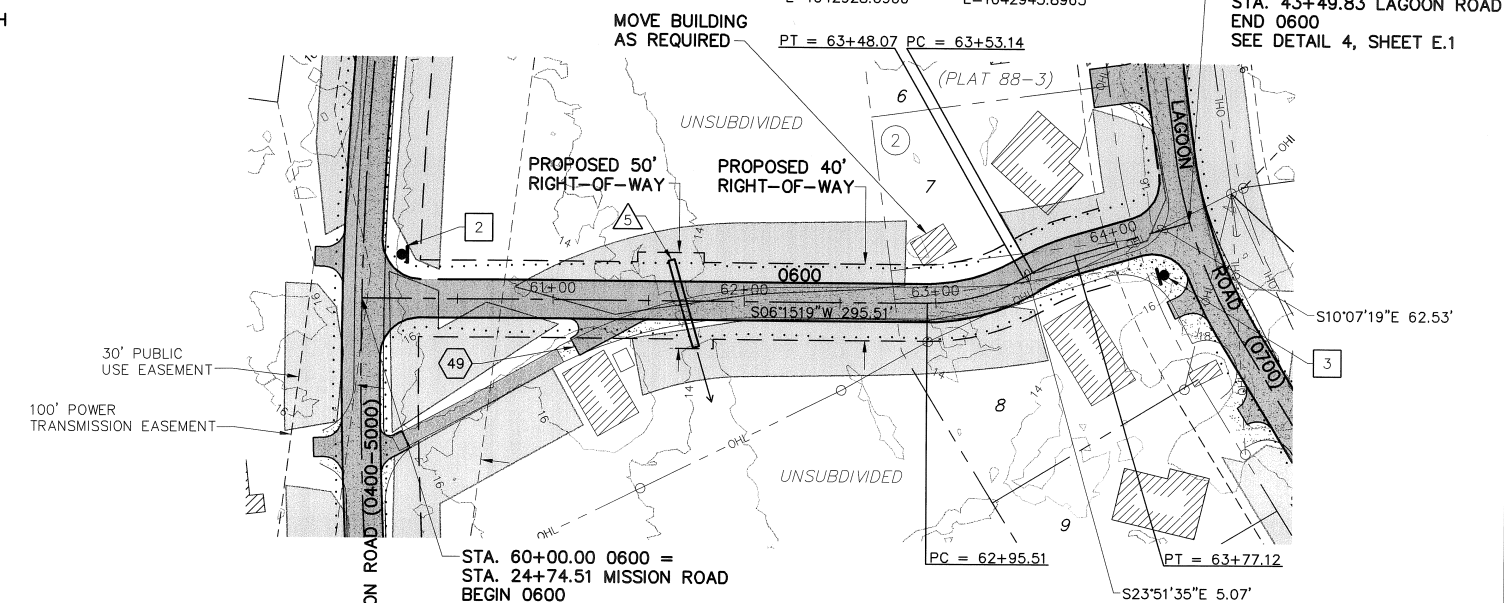
CURVE 5
 R=350.00'
 L=285.72'
 T=151.36'
 D=46°46'20"
 PI STA.=48+59.21
 N=2446029.4994
 E=1643467.9654

CURVE 6
 R=100.00'
 L=52.56'
 T=26.90'
 D=30°06'54"
 PI STA.=63+21.79
 N=2446126.0432
 E=1642928.0900

CURVE 7
 R=100.00'
 L=23.98'
 T=12.05'
 D=13°44'16"
 PI STA.=63+65.13
 N=2446085.7834
 E=1642945.8963

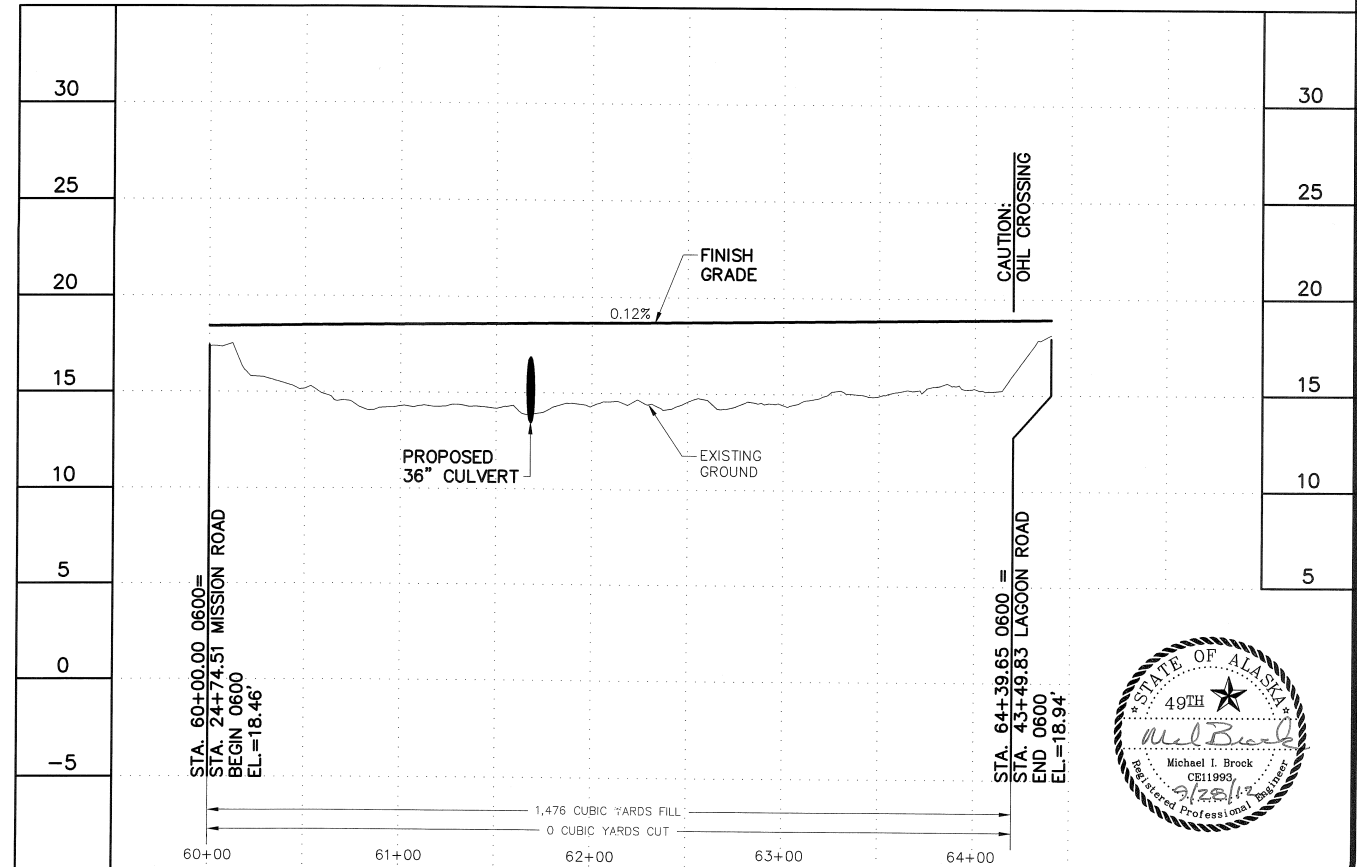
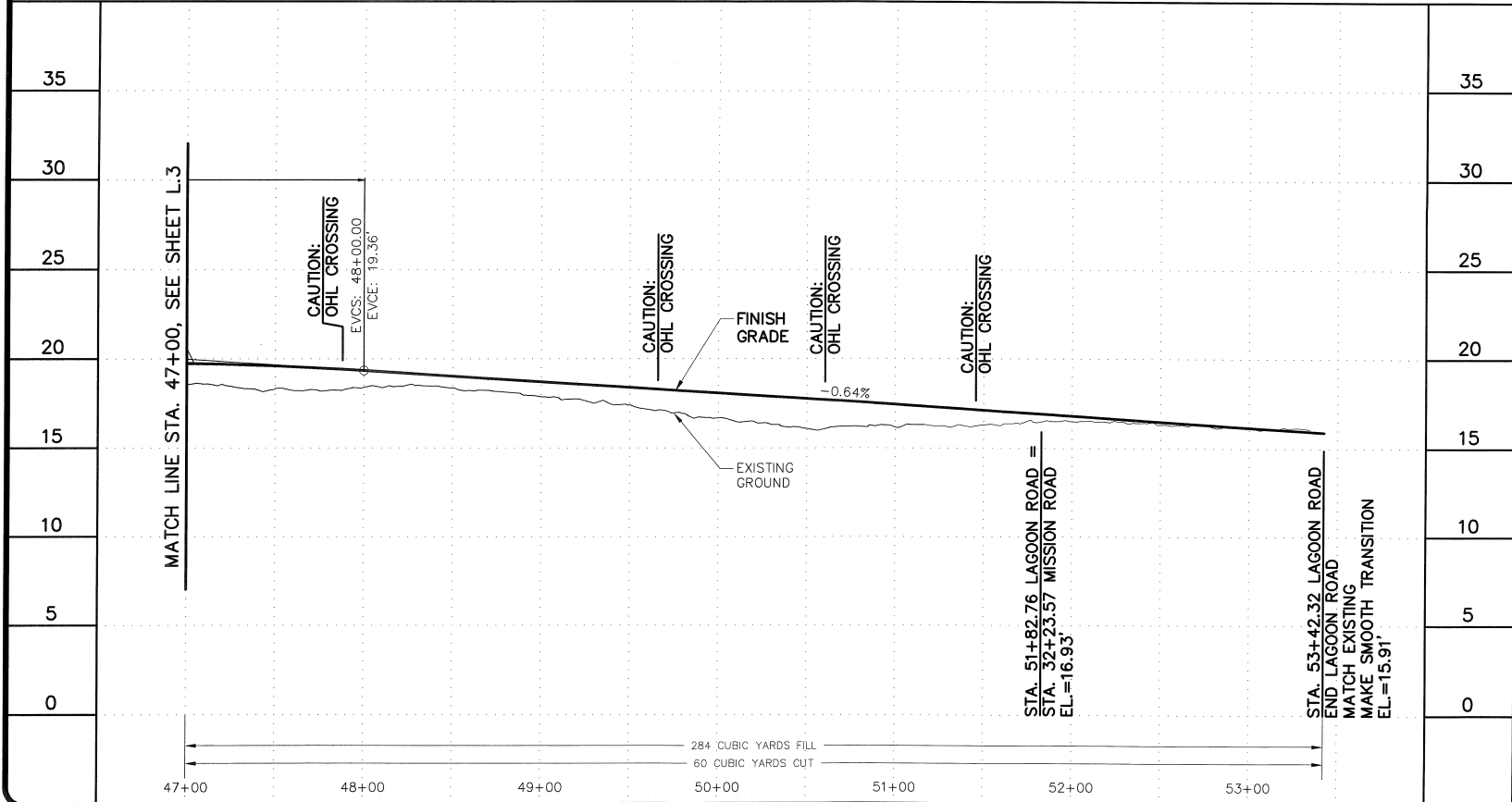


NOTE:
 FOR TYPICAL 20' ROAD SECTION
 SEE DETAIL 1, SHEET D.1



LAGOON ROAD (0700)

0600



Z:\AA_jobs\pvc napakiak-1541-f-10\iteration_3 (100%)\master\1-1-7 (plan profile).dwg

REV.	DATE	DESCRIPTION	BY



ASSOCIATION OF VILLAGE
 COUNCIL PRESIDENTS
 P.O. BOX 219
 BETHEL, ALASKA 99559

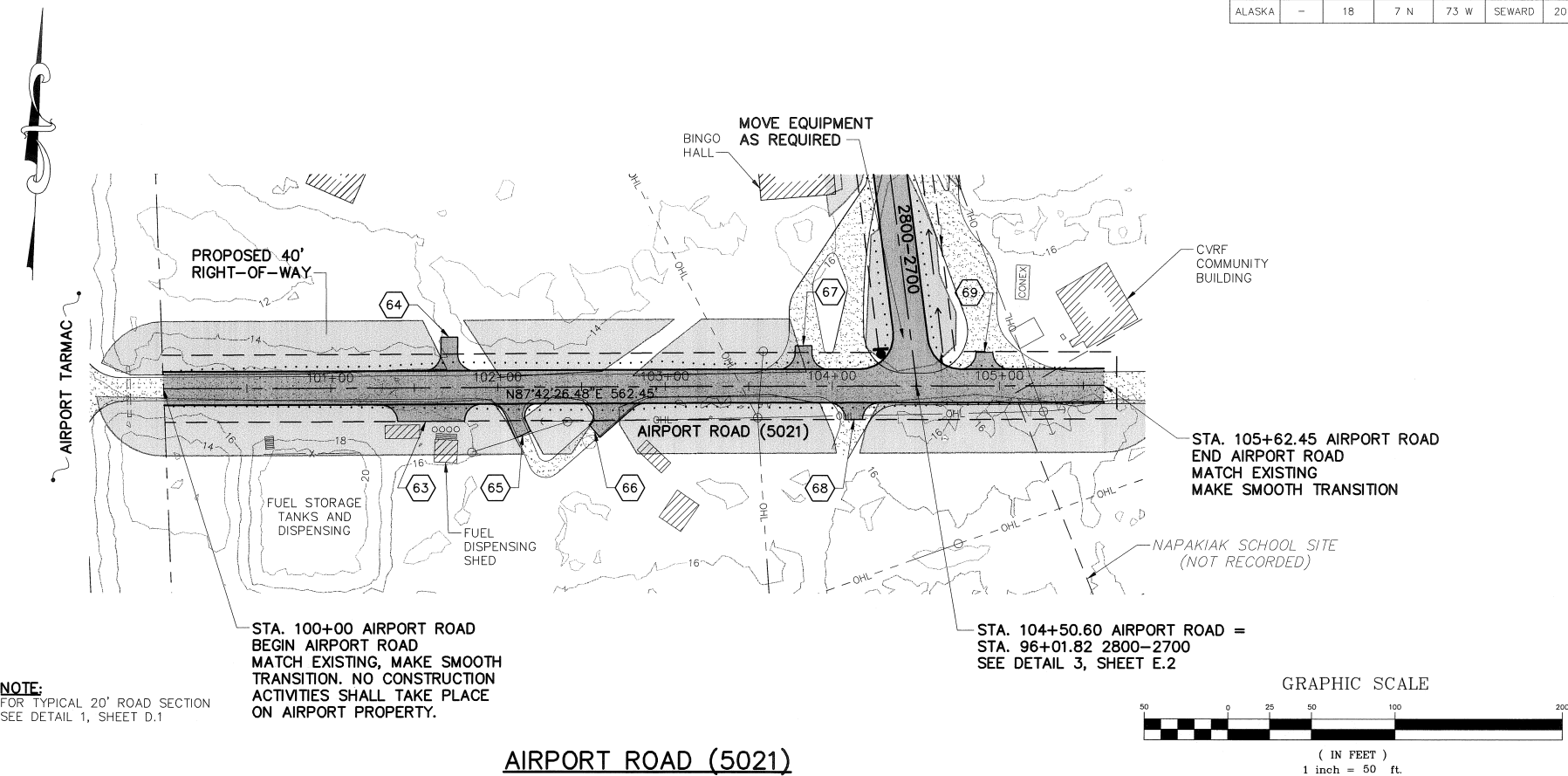
NAPAKIAK COMMUNITY
 STREETS IMPROVEMENTS
 NAPAKIAK, ALASKA

PLAN/PROFILE
 LAGOON ROAD
 STA. 47+00
 TO
 STA. 53+42.32

0600
 STA. 60+00
 TO
 STA. 64+39.65

DESIGNED BY: MIB
 DRAWN BY: JCS
 APPROVED BY: BLP
 DATE: SEPTEMBER 28, 2012
 SCALE: 1" = 50'

SHEET NO.
L.4

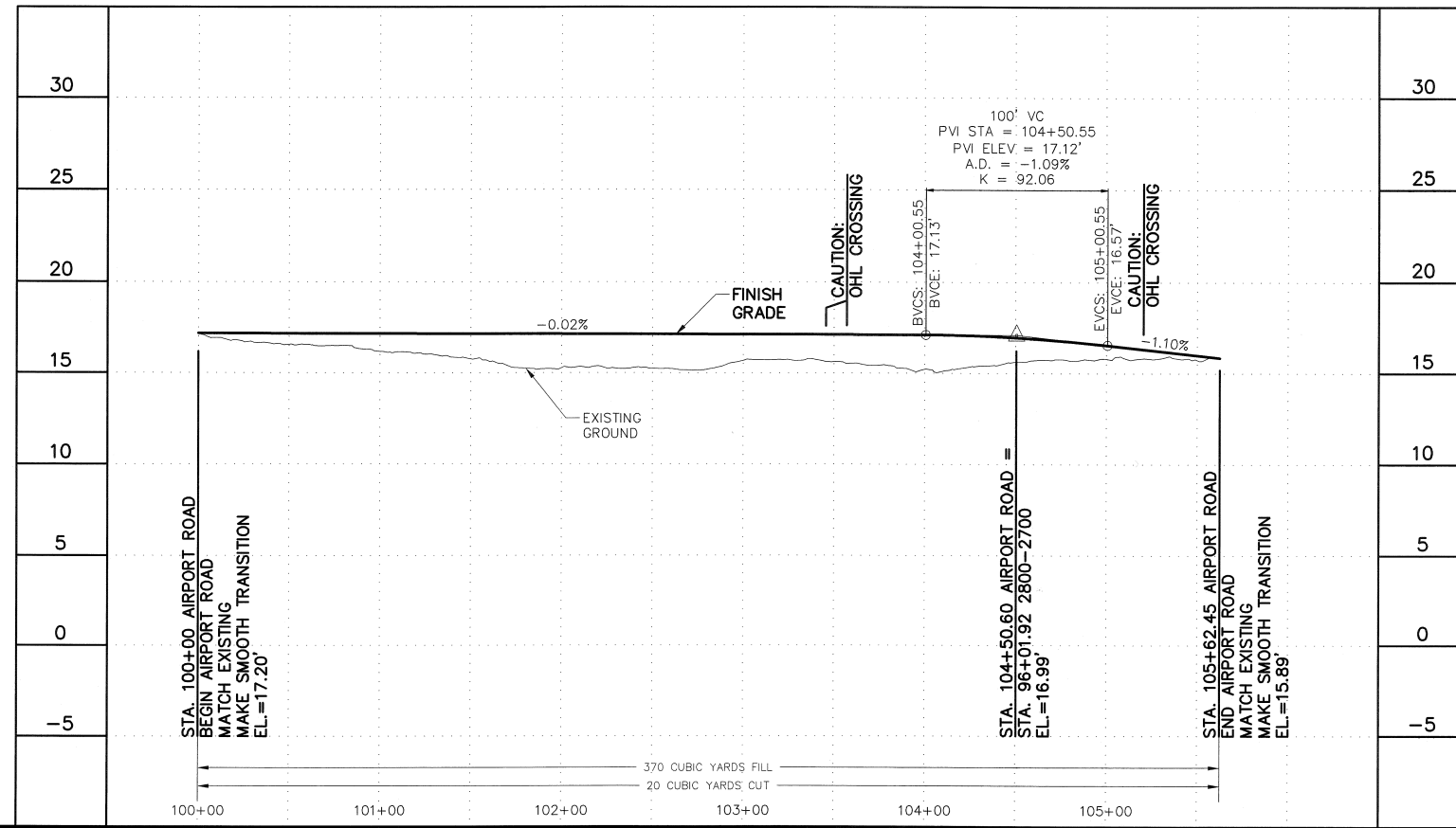


NOTE:
FOR TYPICAL 20' ROAD SECTION
SEE DETAIL 1, SHEET D.1

STA. 100+00 AIRPORT ROAD
BEGIN AIRPORT ROAD
MATCH EXISTING, MAKE SMOOTH
TRANSITION. NO CONSTRUCTION
ACTIVITIES SHALL TAKE PLACE
ON AIRPORT PROPERTY.

STA. 104+50.60 AIRPORT ROAD =
STA. 96+01.82 2800-2700
SEE DETAIL 3, SHEET E.2

AIRPORT ROAD (5021)



Z:\AA_Jobs\ovcp_napakiak-1541-f-10\iteration 3 (100%)\master\L1-L7 (plan profile).dwg

REV.	DATE	DESCRIPTION	BY



ASSOCIATION OF VILLAGE
COUNCIL PRESIDENTS
P.O. BOX 219
BETHEL, ALASKA 99559

NAPAKIAK COMMUNITY
STREETS IMPROVEMENTS
NAPAKIAK, ALASKA

PLAN/PROFILE
AIRPORT ROAD
STA. 100+00
TO
STA. 105+62.45

DESIGNED BY: MIB
DRAWN BY: JCS
APPROVED BY: BLP
DATE: SEPTEMBER 28, 2012
SCALE: 1" = 50'

SHEET NO.
L.7