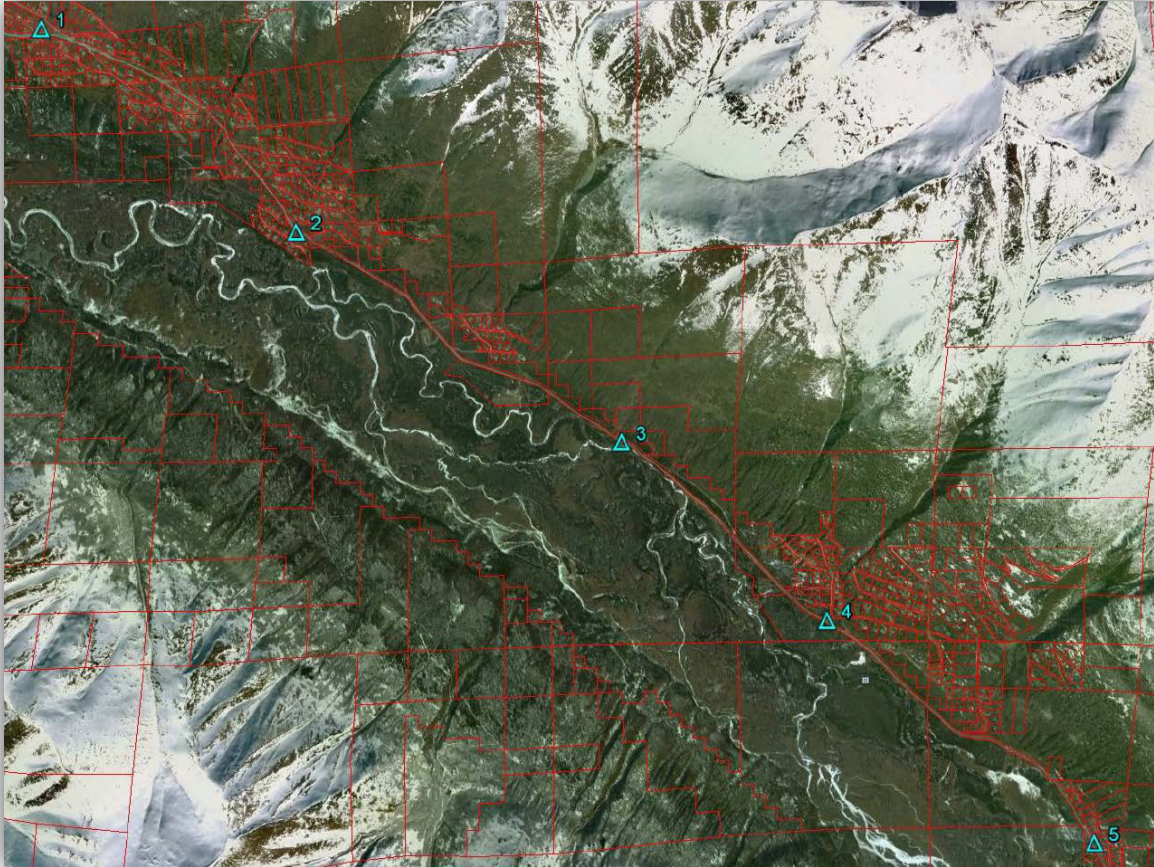




**EAGLE RIVER ROAD REHABILITATION MP 5.3 TO 12.6  
AKSAS 53943  
PRE-CONSTRUCTION SURVEY REPORT  
WHPACIFIC, INC. PROJECT NUMBER 548605**



### **Purpose**

The purpose of this survey was to monument project centerline for construction and reference any Property Corners / Right-of-Way (ROW) monuments that were identified by the Department as falling within close proximity of the construction limits that may be destroyed during construction. Brian Meyers, PLS, was the Professional Land Surveyor In-Charge of the field tasks and was assisted by Kevin Bow, PLS, Jeremy Kuipers, LSIT and James Meyers.

### **Primary Control**

Five primary monuments were set evenly spaced through the length of the project at 1½ to 2-mile intervals. Primary monuments consisted of a 3¼" aluminum cap on 2½" x 30" aluminum post with a magnet set at the base and are accompanied by an orange

carsonite witness post. All primary monuments were set below grade and well outside of the construction limits and are expected to last through the duration of the construction project. All primary control points were tied to the CORS network utilizing NGS' OPUS program. Two OPUS solutions were derived for each point. The mean of each OPUS session was computed and the standard deviation was derived and analyzed. A minimally constrained least squares adjustment was performed on the primary control network holding the mean OPUS derived NAD83(2011)(Epoch 2010.0000) Latitude, Longitude, and Ellipsoid Height of Point 3. For more information about the OPUS results see Appendix A located at the end of this report. The primary control monuments were established by static GNSS techniques using Leica Viva GS15 GNSS receivers. All receivers were mounted on wood tripods and were centered over the point using Leica tribrachs. All tribrachs were pegged before using. All tribrachs were found in adjustment. The height reading was measured in feet and meters at the beginning and end of each observation session.

### **Original Control Recovery**

Forty original project control points were recovered and referenced to the primary control network via GNSS observations. The original control coordinates were analyzed against their published values by holding Point 117 in a minimally constrained least squares network adjustment, and any control point with a difference greater than 0.2 feet was not used to set project centerline. For more information see Appendix B located at the end of this report.

### **Project Centerline Monumentation**

The original project control was utilized to establish the project centerline via conventional methods. Atmospheric information was entered in the total station on a consistent basis. All project centerline stations were monumented with a 2" aluminum cap on 5/8" rebar. Stations that fell in the road pavement were monumented with 15" length rebar. Stations that fell outside of the road pavement were monumented with 30" length rebar. The project centerline monuments were also referenced to the primary control network via GNSS observations. A minimum of two vectors were used to establish the position of the centerline monuments. Vectors did not differ more than 0.08 feet. An analysis was performed comparing the design project centerline position to the set project centerline positions using the GNSS observations. In order to accomplish this, a 2D Classical Transformation was performed between the original Bowl2000 coordinate system and the new NAD83(2011)(Epoch 2010.0000) grid coordinates within Leica Geo Office ver 8.3. The differences computed in this analysis includes errors in the original control, errors in the conventional as-staked positions, and errors in the GNSS observations. All project centerline positional differences are within 0.2 feet. For more information see Appendix C at the end of this report.



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## ROW Monument Ties

Seventeen ROW monuments were referenced to the primary control network via GNSS observations. This was done in order to re-establish the monument's position should the monument be destroyed by construction. For a complete list of the monuments referenced see Appendix D at the end of this report.

## Vertical Control Recovery

A total of sixteen vertical control points were searched for. Only TBM-1 was not recovered. All recovered vertical control points were brushed out, flagged and lathed.

## Equipment

- Leica Tripods
- Leica Tribrachs
- Leica TCRP 1201 Total Station S/N 210994
- Leica GS15 GNSS Receivers w/ Height Hook

Brian Meyers  
Brian R. Meyers, PLS 13008

4-15-2013  
Date



**WHPacific**

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APPENDIX A

**AKSAS 53943 EAGLE RIVER ROAD REHABILITATION MP 5.3 TO 12.6**  
**PRE-CONSTRUCTION PRIMARY CONTROL REPORT**

OPUS DERIVED SOLUTIONS									
	NAD83(2011)(EPOCH 2010.0000)					AK83-4F		OBSERVATION DATA	
POINT	LATITUDE	STD. DEV.	LONGITUDE	STD. DEV.	ELLIPSOID HT.	NORTHING	EASTING	DATE	TIME
1	N 61°18'00.88602"		W 149°26'17.98726"		706.85			3/16/2013	3.5 hrs
1	N 61°18'00.88608"		W 149°26'17.98685"		706.85			3/19/2013	6.5 hrs
MEAN	N 61°18'00.88605"	0.00003"	W 149°26'17.98706	0.00021"	706.85	2667588.2836	1739169.8156		
2	N 61°17'04.33815"		W 149°23'54.23687"		466.87			3/16/2013	4.0 hrs
2	N 61°17'04.33804"		W 149°23'54.23795"		466.84			3/19/2013	7.0 hrs
MEAN	N 61°17'04.33810"	0.00006"	W 149°23'54.23741"	0.00054"	466.86	2661908.8428	1746243.1578		
3	N 61°16'06.09274"		W 149°20'52.49704"		389.63			3/16/2013	8.0 hrs
3	N 61°16'06.09292"		W 149°20'52.49684"		389.63			3/19/2013	6.5 hrs
MEAN	N 61°16'06.09283"	0.00009"	W 149°20'52.49694"	0.00010"	389.63	2656079.7923	1755182.4432		
4	N 61°15'16.60675"		W 149°18'57.15643"		499.52			3/16/2013	7.0 hrs
4	N 61°15'16.60640"		W 149°18'57.15661"		499.59			3/19/2013	6.0 hrs
MEAN	N 61°15'16.60658"	0.00018"	W 149°18'57.15652"	0.00009"	499.55	2651112.6144	1760873.7256		
5	N 61°14'13.84675"		W 149°16'25.43988"		551.89			3/16/2013	6.5 hrs
5	N 61°14'13.84683"		W 149°16'25.43979"		551.87			3/19/2013	7.0 hrs
MEAN	N 61°14'13.84679"	0.00004"	W 149°16'25.43984"	0.00005"	551.88	2644820.1106	1768364.7638		

MINIMALLY CONSTRAINED LEAST SQUARES ADJUSTMENT							
	NAD83(2011)(EPOCH 2010.0000)			AK83-4F		ADJUSTED - OPUS	
POINT	LATITUDE	LONGITUDE	ELLIPSOID HT.	NORTHING	EASTING	Δ GRID DIST	Δ ELLIPSOID HT
1	N 61°18'00.88584"	W 149°26'17.98713"	706.94	2667588.2588	1739169.8133	0.02	0.09
2	N 61°17'04.33780"	W 149°23'54.23716"	466.90	2661908.8121	1746243.1690	0.03	0.04
3	N 61°16'06.09283"	W 149°20'52.49694"	389.63	2656079.7923	1755182.4432	HELD	HELD
4	N 61°15'16.60637"	W 149°18'57.15592"	499.60	2651112.5949	1760873.7555	0.04	0.05
5	N 61°14'13.84678"	W 149°16'25.43933"	551.88	2644820.1082	1768364.7890	0.03	0.00

NOTE:

The five points listed above are 3 1/4" Aluminum Cap on a 2 1/2" x 30" Aluminum Post set below ground and well outside of construction limits. All five control points were set evenly spaced throughout the project at 1 1/2 to 2 mile intervals. The three CORS used in the OPUS solutions are "TBON", "ZAN1", and "ATW2." "TBON" and "ZAN1" are located in Anchorage, and "ATW2" is located in Palmer. Point 3 was held fixed for the minimally constrained adjustment in Leica Geo Office ver 8.3. Point 5 has the lowest standard deviation, as shown in the OPUS Derived Solution above, however Point 3 was held because it is located in the center of the project.



## APPENDIX B

EAGLE RIVER RD REHAB MP 5.3 TO 12.6 PRE-CONSTRUCTION CONTROL VERIFICATION-BOWL 2000 COORDINATES (USFEET)											
PUBLISHED POSITION			MEASURED POSITION			DELTAS					
POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	NORTHING	EASTING	TOTAL	DESCRIPTION	NOTES	
117	370960.4971	426802.1723	117	370960.4971	426802.1723	HELD	HELD	HELD	TS ERV-17	HELD FOR MINIMALLY CONSTRAINED ADJUSTMENT	
118	370800.3085	427542.7018	118	370800.3212	427542.7152	0.01	0.01	0.02	TS ERV-18		
119	369960.9750	429491.5922	119	369960.9504	429491.5991	-0.02	0.01	0.03	TS ERV-19		
120	368864.9260	431293.9816	120	368864.7621	431293.8613	-0.16	-0.12	0.20	TS ERVAZ-20		
121	368226.5742	431877.3298	121	368226.5810	431877.3276	0.01	0.00	0.01	TS ERV-21		
122	367719.5111	432088.7873	122	367719.4922	432088.7876	-0.02	0.00	0.02	TS ERV-22		
123	367174.7274	432610.2848	123	367174.7130	432610.4104	-0.01	0.13	0.13	TS ERV-23		
124	366124.8674	433428.9459	124	366124.8951	433428.9772	0.03	0.03	0.04	TS ERV-24		
125	365713.7405	433562.1693		N/A	N/A	N/A	N/A	N/A	TS ERV-25	NOT FOUND THIS SURVEY	
126	365265.4800	434100.8100	126	365265.5241	434100.8420	0.04	0.03	0.05	STS FD Rbr/PC[DOT/PF]: TS ERV-26	PUBLISHED POSITION TAKEN FROM AECC POINT IN THE CONTROL DRAWING AND DIFFERS POSITIONALLY FROM THE CONTROL SHEET BY APPROXIMATELY 37.5 FEET. NOTHING FOUND AT THE CONTROL SHEET POSITION THIS SURVEY.	
127	364231.2742	435901.2759	127	364231.3223	435901.3364	0.05	0.06	0.08	TS ERV-27		
128	363645.5056	436853.2269	128	363645.4967	436853.2331	-0.01	0.01	0.01	TS ERV-28		
129	362518.7773	437738.6908	129	362518.8141	437738.7234	0.04	0.03	0.05	TS ERV-29		
130	361892.6002	438342.1103	130	361892.5958	438342.1277	0.00	0.02	0.02	TS ERV-30		
131	361525.6982	439293.2548	131	361526.5897	439289.8767	0.89	-3.38	3.49		SET YPC ON FOUND 5/8 REBAR. NOTHING FOUND AT CONTROL SHEET POSITION THIS SURVEY.	
132	361280.9046	440089.2595	132	361280.8972	440089.3067	-0.01	0.05	0.05	TS ERV-32		
133	360938.0188	440827.1356	133	360938.0473	440827.1891	0.03	0.05	0.06	TS ERV-33		
134	360194.5969	441795.4107	134	360194.6586	441795.4784	0.06	0.07	0.09	TS ERV-34		
135	360009.4263	442206.0378	135	360009.4447	442206.0796	0.02	0.04	0.05	TS ERV-35		
136	359597.6193	442735.4346	136	359597.5871	442735.4400	-0.03	0.01	0.03	TS ERV-36		
137	359398.0049	443166.9665	137	359398.0614	443167.0068	0.06	0.04	0.07	TS ERV-37		
138	359144.9292	443453.2083	138	359144.9655	443453.2386	0.04	0.03	0.05	TS ERV-38		
139	358622.7476	444164.7797	139	358622.7580	444164.8099	0.01	0.03	0.03	TS ERV-39		
140	358056.2022	444769.7852	140	358056.1574	444769.7712	-0.04	-0.01	0.05	TS ERV-40		
141	357599.0071	445291.7691	141	357598.9570	445291.7375	-0.05	-0.03	0.06	TS ERV-41		
142	356572.2244	446246.6823	142	356572.2060	446246.6718	-0.02	-0.01	0.02	TS ERV-42		
143	355000.3780	447716.8039	143	355000.3428	447716.7761	-0.04	-0.03	0.04	TS ERV-43		
144	354601.5619	448263.3105	144	354601.5387	448263.2888	-0.02	-0.02	0.03	TS ERV-44		
145	354151.5751	449124.6444	145	354151.5504	449124.6466	-0.02	0.00	0.02	TS ERV-45		
146	353513.6172	449937.8537	146	353513.6193	449937.8543	0.00	0.00	0.00	TS ERV-46		
147	352754.6463	450627.1577	147	352754.6675	450627.1831	0.02	0.03	0.03	TS ERV-47		
148	351334.8560	452207.7722	148	351334.9106	452207.8285	0.05	0.06	0.08	TS ERV-48		
149	351186.6336	452774.5661	149	351186.6875	452774.6054	0.05	0.04	0.07	TS ERV-49		
151	350833.3034	453645.6698	151	350833.3531	453645.6628	0.05	-0.01	0.05	TS ERV-51		
152	350483.1800	454392.8529	152	350483.1757	454392.8066	0.00	-0.05	0.05	TS ERV-52		
153	349957.6459	454928.7325	153	349957.6825	454928.6619	0.04	-0.07	0.08	TS ERV-53		
154	349428.3732	455316.5086	154	349428.4194	455316.5588	0.05	0.05	0.07	TS ERV-54		
155	348071.7579	456063.9984	155	348071.8481	456063.9827	0.09	-0.02	0.09	TS ERV-55		
156	365678.5037	433596.9206	156	365678.5529	433596.9653	0.05	0.04	0.07	TS ERV-56		
157	351156.5954	453183.4193	157	351156.6334	453183.4425	0.04	0.02	0.04	TS ERV-50 RESET		

# APPENDIX C

PROJECT CENTERLINE AS-STAKED COMPARISON									
NAD83(2011)(EPOCH 2010.0000) US FEET									
DESIGN PROJECT CENTERLINE			SET PROJECT CENTERLINE			DIFFERENCES			STATION
POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	NORTHING	EASTING	TOTAL	
30101	2667477.0202	1739499.2721	35101	2667477.0107	1739499.3177	-0.01	0.05	0.05	BOP 271+85.00
30102	2667366.2467	1739841.3184	35102	2667366.2594	1739841.2979	0.01	-0.02	0.02	PT 275+45.05
30103	2666590.9039	1741660.9195	35103	2666590.8732	1741660.9393	-0.03	0.02	0.04	PC 295+23.16
30104	2666110.5368	1742565.3405	35104	2666110.5541	1742565.3618	0.02	0.02	0.03	PT 305+48.60
30105	2665672.7155	1743242.8825	35105	2665672.6304	1743242.8881	-0.09	0.01	0.09	PC 313+55.39
30106	2665286.8623	1743743.2078	35106	2665286.8708	1743743.2545	0.01	0.05	0.05	PT 319+88.03
30107	2665088.5062	1743960.3672	35107	2665088.5771	1743960.3792	0.07	0.01	0.07	PC 322+82.18
30108	2664672.8097	1744267.6134	35108	2664672.7936	1744267.6020	-0.02	-0.01	0.02	PT 328+02.41
30109	2664470.1248	1744363.6223	35109	2664470.1298	1744363.5472	0.00	-0.08	0.08	PC 330+26.70
30110	2664097.2130	1744609.2251	35110	2664097.1867	1744609.2957	-0.03	0.07	0.08	PT 334+74.73
30111	2663760.0476	1744906.3927	35111	2663760.0522	1744906.5358	0.00	0.14	0.14	PC 339+24.21
30112	2663517.3904	1745107.0464	35112	2663517.4021	1745107.2103	0.01	0.16	0.16	PT 342+39.17
30113	2662943.3446	1745552.0463	35113	2662943.3354	1745552.0623	-0.01	0.02	0.02	PC 349+65.58
30114	2662711.6665	1745700.7112	35114	2662711.6553	1745700.7450	-0.01	0.03	0.04	PT 352+41.25
30115	2662513.8949	1745804.0726	35115	2662513.8884	1745804.1103	-0.01	0.04	0.04	PC 354+64.43
30116	2661998.8188	1746238.5524	35116	2661998.8274	1746238.5912	0.01	0.04	0.04	PT 361+43.79
30117	2661804.5277	1746493.6322	35117	2661804.5703	1746493.5972	0.04	-0.04	0.06	PC 364+64.47
30118	2661609.6000	1746804.2070	35118	2661609.4835	1746804.1432	-0.12	-0.06	0.13	PT 368+31.69
30119	2661430.2772	1747157.1892	35119	2661430.2389	1747157.1447	-0.04	-0.04	0.06	PC 372+27.65
30120	2661275.6175	1747435.3968	35120	2661275.6766	1747435.4665	0.06	0.07	0.09	PT 375+46.07
30121	2660366.3609	1748936.1062	35121	2660366.3942	1748936.1002	0.03	-0.01	0.03	PC 393+00.94
30122	2660033.8080	1749319.3455	35122	2660033.7661	1749319.3112	-0.04	-0.03	0.05	PT 398+10.86
30123	2659622.5588	1749656.1231	35123	2659622.5722	1749656.0826	0.01	-0.04	0.04	PC 403+42.47
30124	2659438.1110	1749810.2821	35124	2659438.0523	1749810.2127	-0.06	-0.07	0.09	PT 405+82.89
30125	2658754.0629	1750393.6929	35125	2658754.0662	1750393.6983	0.00	0.01	0.01	PC 414+82.02
30126	2658360.7747	1750965.1284	35126	2658360.7827	1750965.1279	0.01	0.00	0.01	PT 421+83.78
30127	2657730.5713	1752741.5613	35127	2657730.6289	1752741.5795	0.06	0.02	0.06	PC 440+68.86
30128	2657545.4077	1753089.8565	35128	2657545.4470	1753089.8731	0.04	0.02	0.04	PT 444+64.80
30129	2657140.8575	1753637.3614	35129	2657140.8977	1753637.3615	0.04	0.00	0.04	PC 451+45.64
30130	2656755.6646	1754236.2161	35130	2656755.6023	1754236.1734	-0.06	-0.04	0.08	PT 458+58.26
30131	2656626.3632	1754469.0598	35131	2656626.3219	1754469.0876	-0.04	0.03	0.05	PC 461+24.62
30132	2656505.2126	1754660.7329	35132	2656505.2547	1754660.7574	0.04	0.02	0.05	PT 463+51.52
30133	2656387.7432	1754825.1362	35133	2656387.7462	1754825.1306	0.00	-0.01	0.01	PC 465+53.60
30134	2656247.5527	1755051.9143	35134	2656247.5823	1755051.9313	0.03	0.02	0.03	PT 468+20.44
30135	2656153.2077	1755230.1863	35135	2656153.0377	1755230.2016	-0.17	0.02	0.17	PC 470+22.17
30136	2655972.2064	1755512.2139	35136	2655972.2564	1755512.2292	0.05	0.02	0.05	PT 473+57.72
30137	2655676.7941	1755897.0680	35137	2655676.7124	1755897.0126	-0.08	-0.06	0.10	PC 478+42.94
30138	2655489.9759	1756134.2160	35138	2655489.9778	1756134.1810	0.00	-0.04	0.04	PT 481+44.86
30139	2655266.9675	1756410.0926	35139	2655266.9521	1756410.0371	-0.02	-0.06	0.06	PC 484+99.62
30140	2654918.6208	1756821.7156	35140	2654918.5642	1756821.7759	-0.06	0.06	0.08	PT 490+38.97
30141	2654273.1348	1757550.6045	35141	2654273.1341	1757550.5348	0.00	-0.07	0.07	PC 500+12.70
30142	2654127.9580	1757699.7036	35142	2654127.9103	1757699.6021	-0.05	-0.10	0.11	PT 502+20.91
30143	2653905.8871	1757907.1792	35143	2653905.8844	1757907.1501	0.00	-0.03	0.03	PC 505+24.85
30144	2653493.8058	1758274.7867	35144	2653493.8871	1758274.7942	0.08	0.01	0.08	PT 510+77.18
30145	2653162.6008	1758556.8314	35145	2653162.6041	1758556.7898	0.00	-0.04	0.04	PC 515+12.25
30146	2652776.4849	1758900.2378	35146	2652776.4982	1758900.2511	0.01	0.01	0.02	PT 520+29.09
30147	2652290.0820	1759351.9667	35147	2652290.0605	1759351.9851	-0.02	0.02	0.03	PC 526+92.97
30148	2651783.4084	1759851.3010	35148	2651783.5066	1759851.3208	0.10	0.02	0.10	PT 534+04.53
30149	2651510.1608	1760137.0451	35149	2651510.1771	1760137.0119	0.02	-0.03	0.04	PC 537+99.94
30150	2651297.5224	1760420.7888	35150	2651297.5217	1760420.7951	0.00	0.01	0.01	PT 541+55.41
30151	2650726.0400	1761411.5915	35151	2650726.0124	1761411.6077	-0.03	0.02	0.03	PC 552+99.32
30152	2650353.0474	1761924.2108	35152	2650353.0882	1761924.2084	0.04	0.00	0.04	PT 559+34.54
30153	2649998.5084	1762316.4986	35153	2649998.4383	1762316.4682	-0.07	-0.03	0.08	PC 564+63.36
30154	2649816.2974	1762501.3597	35154	2649816.2643	1762501.3384	-0.03	-0.02	0.04	PT 567+23.04
30155	2649592.8996	1762709.2006	35155	2649592.9748	1762709.2567	0.08	0.06	0.09	PC 570+28.20
30156	2649448.3104	1762855.2609	35156	2649448.3362	1762855.3043	0.03	0.04	0.05	PT 572+33.80
30157	2648987.9606	1763360.2170	35157	2648987.9693	1763360.2348	0.01	0.02	0.02	PC 579+17.18
30158	2648603.7309	1763762.5337	35158	2648603.6849	1763762.5212	-0.05	-0.01	0.05	PT 584+73.61
30159	2648170.2482	1764195.8493	35159	2648170.2517	1764195.8702	0.00	0.02	0.02	PC 590+86.59
30160	2647780.9031	1765049.6349	35160	2647780.8759	1765049.6307	-0.03	0.00	0.03	PT 600+45.40
30161	2647767.6780	1765237.9839	35161	2647767.6700	1765237.9875	-0.01	0.00	0.01	PC 602+34.24
30162	2647558.1411	1765794.5108	35162	2647558.0862	1765794.5224	-0.05	0.01	0.06	PT 608+37.41
30163	2647444.7551	1765943.6334	35163	2647444.7499	1765943.6513	-0.01	0.02	0.02	PC 610+24.78

# APPENDIX C

PROJECT CENTERLINE AS-STAKED COMPARISON										
NAD83(2011)(EPOCH 2010.0000) US FEET										
DESIGN PROJECT CENTERLINE			SET PROJECT CENTERLINE			DIFFERENCES				
POINT	NORTHING	EASTING	POINT	NORTHING	EASTING	NORTHING	EASTING	TOTAL	STATION	
30164	2647292.4881	1766198.0920	35164	2647292.5053	1766198.1164	0.02	0.02	0.03	PT 613+21.96	
30165	2647182.1381	1766439.7520	35165	2647182.2357	1766439.7519	0.10	0.00	0.10	PC 615+87.66	
30166	2646876.4250	1766895.8427	35166	2646876.4169	1766895.8387	-0.01	0.00	0.01	PT 621+39.20	
30167	2646701.3776	1767082.7518	35167	2646701.3053	1767082.6883	-0.07	-0.06	0.10	PC 623+95.30	
30168	2646342.4310	1767394.1944	35168	2646342.4498	1767394.2488	0.02	0.05	0.06	PT 628+71.42	
30169	2646056.0671	1767594.8317	35169	2646056.0345	1767594.8576	-0.03	0.03	0.04	PC 632+21.11	
30170	2645833.2452	1767732.7039	35170	2645833.2110	1767732.7376	-0.03	0.03	0.05	PT 634+83.30	
30171	2644469.1645	1768472.7352	35171	2644469.2507	1768472.7858	0.09	0.05	0.10	NCPI 650+35.37	
30172	2643992.1619	1768735.4716	35172	2643992.2820	1768735.5975	0.12	0.13	0.17	EOP 655+80.00	

0.06

AVERAGE

APPENDIX D

ROW MON TIES				
NAD83(2011)(EPOCH 2010.0000) US FEET				
			PER ROW PLAN SET	
POINT	NORTHING	EASTING	STATION	OFFSET
617	2663540.5051	1745139.9188	342+41.03	40.09 LT
634	2657448.8461	1753136.4951	445+59.61	49.86 RT
711	2665253.6954	1743725.9848	319+97.66	36.07 RT
722	2664283.8999	1744394.1024	332+01.64	62.09 RT
782	2644320.6932	1768789.8512	653+18.33	206.00 LT
783	2644192.1192	1768813.3668	654+42.46	164.79 LT
784	2644074.5931	1768765.9720	655+22.60	66.59 LT
790	2643984.1699	1768679.4461	655+59.96	52.92 RT
832	2664296.7182	1744510.3858	332+53.08	42.81 LT
840	2655711.7730	1755833.1143	477+70.89	11.16 RT
893	2666152.4451	1742467.5407	304+43.39	16.95 RT
730	2662886.0350	1745542.3302	350+06.02	42.34 RT
746	2661870.2844	1746291.7552	362+63.91	69.95 RT
747	2661871.8141	1746316.1345	362+82.45	53.96 RT
749	2663289.0848	1745356.4470	345+72.44	57.21 LT
757	2661578.9753	1746968.4972	369+92.07	47.14 LT
756	2661577.4455	1746763.7075	368+10.63	47.10 RT

NOTE:

Point Numbers shown above are from the ROW Basemap.