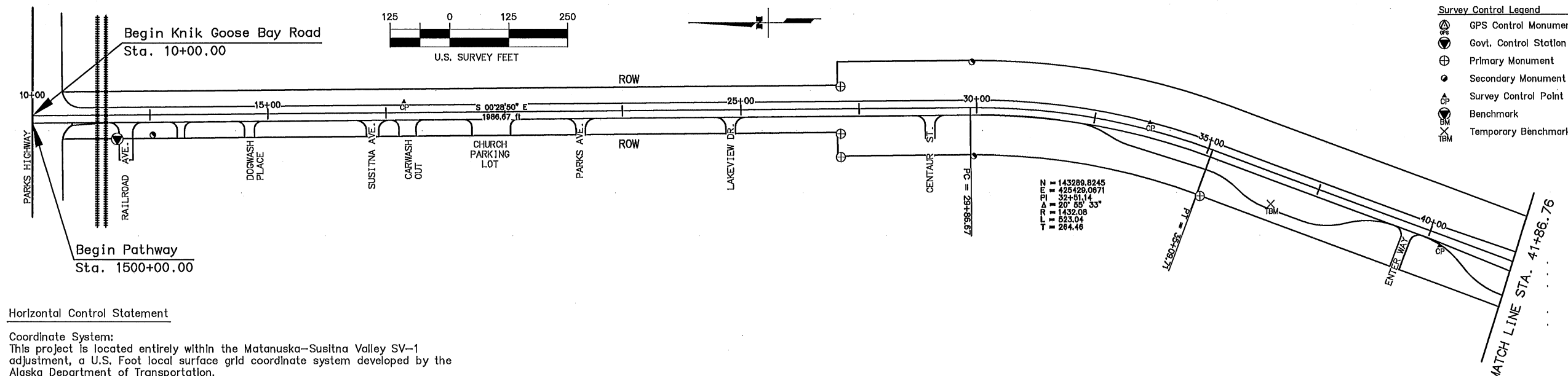


SHEET NO.	TOTAL SHEETS	
A2	A9	
STATE	YEAR	
ALASKA	2003	
PROJECT DESIGNATION		
CA-0525(11)/53922		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

STATE OF ALASKA
49th
MICHAEL E. MILLER
LS-7222
REGISTERED PROFESSIONAL LAND SURVEYOR

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
Knik Goose Bay Road
Rehabilitation
and Pathway
Survey Control Sheet



Horizontal Control Statement

Coordinate System:
This project is located entirely within the Matanuska-Susitna Valley SV-1 adjustment, a U.S. Foot local surface grid coordinate system developed by the Alaska Department of Transportation.

Basis of Coordinates:
The Basis of Coordinates is CGS Station S-1, a standard disk set in the top of an eleven inch square monument, flush with the ground, is located approximately 0.05 miles west of the Alaska Railroad station at Wasilla. Said station has SV-1 coordinates of 145,360.5554 N, 425,361.4947 E.

Basis of Bearings:
The Basis of Bearings is a local plane bearing between CHS Station S-1 (1922) and AKDOTPF Station GPS 43 (1989). AKDOTPF Station GPS 43 (1989), a brass disc clamped to the top of a stainless steel rod, is located approximately 4.0 miles west of Wasilla along the road to Wasilla Airport, bears N 87° 26' 59.7\"

Translation Parameters:
To convert the local coordinates to NAD83 (92) State Plane U.S. Foot coordinates, translate using +2,624,946.5706 N, +1,312,508.8943 E, and scale using 0.9998990458.

Vertical Control:

NGVD 1929, as determined by level loops performed by AKDOT between the following bench marks;
USC&GS BM S-1 1922, a brass disk in concrete post located near the intersection of the Parks Highway and Knik-Goose Bay Road, has an elevation of 331.94 U.S. Feet.

Point	Station	Offset	Northing	Easting	Elevation	Description
152	66+60	75 RI.	140192	424058	314.20	BM-MK1: 3.25\"
154	116+59	73 LI.	138066	419780	296.87	BM-MK2: 3.25\"
156	166+94	99 RI.	135952	415333	326.09	BM-MK3A: 3.25\"
158	234+59	93 RI.	134713	408977	303.52	BM-MK4A1: 3.25\"
160	275+63	95 RI.	131511	406041	315.80	BM-MK5A1: 3.25\"
162	322+74	93 RI.	129086	402064	286.04	BM-MK6A: 3.25\"
164	384+20	95 RI.	126623	396544	357.02	BM-MK7A: 3.25\"
166	437+07	102 LI.	121938	394049	248.81	BM-MK8A (Reset): 2.5\"
176	698+04	103 RI.	103600	376767	84.91	BM-MK13 'RESET': 2.5\"
182	858+61	101 RI.	93649	365851	72.67	BM-MK16 RESET: 2.5\"

NOTES:

- Whether listed or not, ALL monuments or property markers, corners, or accessories, which will be disturbed or buried, shall be referenced or re-established in their original position (A.S. 19.10.260) and recorded (A.S. 34.65.040).
- Monument symbols shown without point numbers are shown to assist the contractor in identifying corners that shall be preserved.
- Alignment data is shown for Knik Goose Bay Road. Refer to Plan and Profile sheets for bike-path alignment information.
- ROW location is shown for orientation purposes only. Please refer to AKDOT ROW Maps for any ROW information.

Monument Summary Table						Items marked with an "*" only apply if the monument is disturbed or destroyed as a result of this project.			
Point	Station	Offset	Northing	Easting	Description	642(6)	642(7)	642(9)	Monument of Record Form
108	11+79.91	50.20 RI.	145360.5551	425361.4961	Fd BC: USCBGS BM S-1	*	*	X	X
788	12+56.21	42.26 RI.	145284.3236	425370.0735	Fd Rbr: KGB POT 973+55 40' LT	*	*	X	X
786	27+10.42	101.94 RI.	143829.6628	425322.5955	Fd Conc ROW Mon: KGB ROW 959+00 100' LI	*	*	X	X
787	27+10.67	52.55 RI.	143829.8344	425371.9846	Fd Conc ROW Mon: KGB ROW 959+00 50' LI	*	*	X	X
785	29+93.85	102.37 RI.	143546.7565	425324.5175	Fd Rbr/PC: KGB PT 956+18.4 100' LI	*	*	X	X
781	35+17.30	100.61 RI.	143070.0469	425239.7581	Fd Conc ROW Mon: KGB PC 950+93.4 100' LI	*	*	X	X
874	55+65.58	100.62 RI.	141150.7725	424524.3530	Fd AlMon: NE Tr. B-2A Sustitna Place Subd	*	*	X	X
780	57+85.28	100.30 RI.	140944.8343	424447.8115	Fd Conc ROW Mon: KGB PT 928+24.7 100' LI	*	*	X	X
876	66+29.41	101.25 RI.	140232.4836	424054.3379	Fd Rbr/PC: PC ROW Frank Smith Way/KGB Rd	*	*	X	X
877	69+62.55	100.69 RI.	139962.8467	423658.6779	Fd AlMon: S161S16ROW KGB N ROW	*	*	X	X

WORK REQUIRED	PAY ITEM NO.
Construction surveying	642(1)
Office engineering	642(2)
Three person survey party	642(3)
Set primary monument	642(4)
Set secondary monument	642(5)
Replace existing with primary monument	642(6)
Replace existing with secondary monument	642(7)
Adjust existing monument	642(8)
Reference existing monument	642(9)
Monument case	642(10)
Adjust existing monument case	642(11)
Final traverse	642(12)

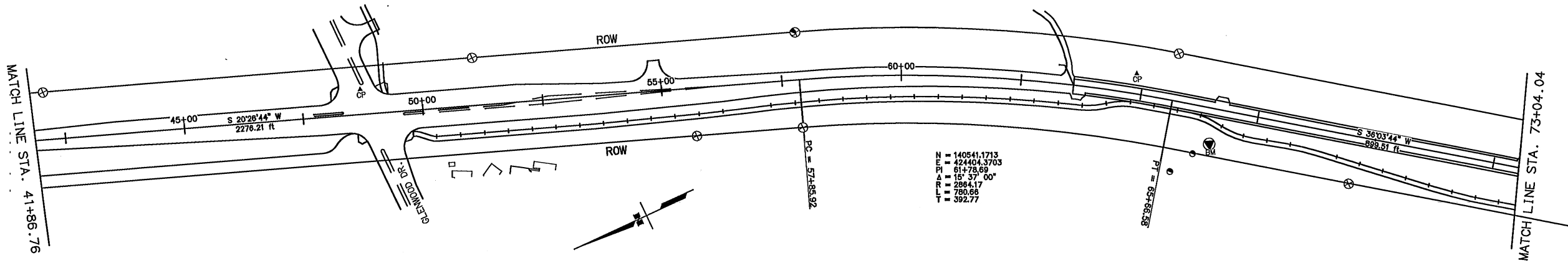
Horizontal Control Points						Description	
Point	Station	Offset	Northing	Easting			
109	XXX	XXX	145574.6547	426091.9355		Fd Rbr/PC: TS-9 Parks Hwy	
108	11+79.91	50.20 LI.	145360.5551	425361.4961		Fd BC: USCBGS BM S-1	
1	17+88.19	22.79 LI.	144752.9067	425439.5871		Set Rbr/AC: TS KGB-1	
2	33+65.35	15.01 LI.	143175.7953	425394.7384		Set Rbr/AC: TS KGB-2	
74	40+29.25	23.13 RI.	142563.2831	425133.5325		Set Rbr/AC: TS KGB-2A	
3	48+73.22	52.23 LI.	141746.1578	424909.3254		Set Rbr/AC: TS KGB-3	
4	64+84.40	41.89 LI.	140267.1135	424255.1430		Set Rbr/AC: TS KGB-4	

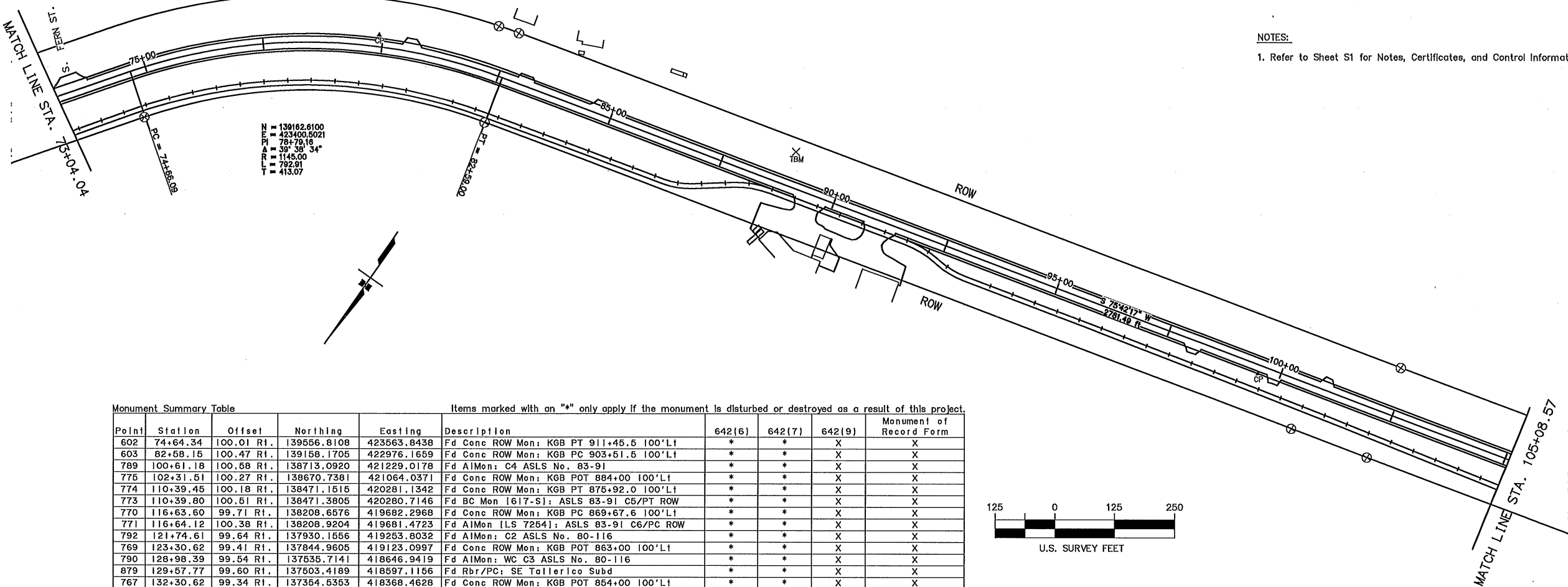
Vertical Control Points							Description	
Point	Station	Offset	Northing	Easting	Elevation			
151	36+65	64 RI.	142919	425223	368.57		TBM-1: RR Spike in 16\"	
152	66+60	75 RI.	140192	424058	314.20		BM-MK1: 3.25\"	

Surveyor's Certificate

I hereby certify that I am properly Registered and Licensed to practice Land Surveying in the State of Alaska, and that this drawing represents a survey made by me or under my direct supervision, and that the monuments shown hereon actually exist as described, and that all dimensions and other details are correct to the extent shown hereon.

Michael E. Miller LS-7222 03/11/2003





NOTES:
1. Refer to Sheet S1 for Notes, Certificates, and Control Information.

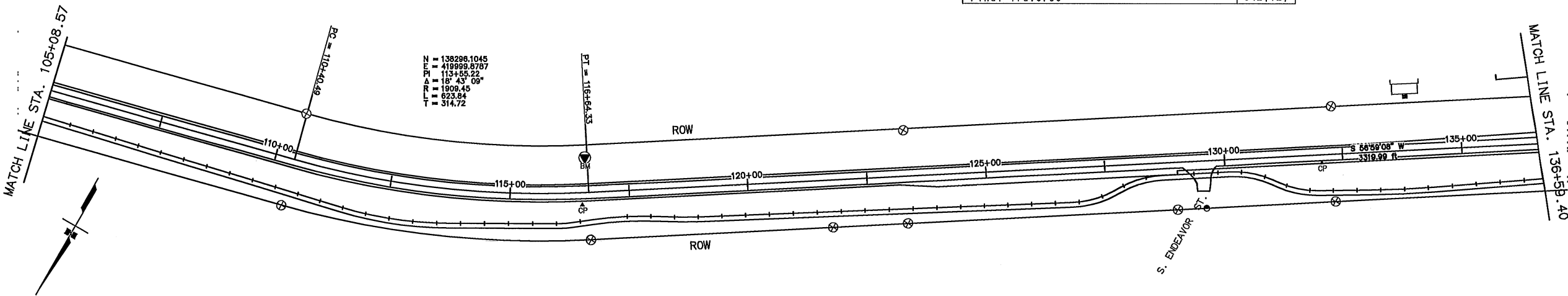
Monument Summary Table					Items marked with an "*" only apply if the monument is disturbed or destroyed as a result of this project.			
Point	Station	Offset	Northing	Easting	Description	642(6)	642(7)	642(9)
602	74+64.34	100.01 RI.	139556.8108	423563.8438	Fd Conc ROW Mon: KGB PT 911+45.5 100' Lt	*	*	X
603	82+58.15	100.47 RI.	139158.1705	422976.1659	Fd Conc ROW Mon: KGB PC 903+51.5 100' Lt	*	*	X
789	100+61.18	100.58 RI.	138713.0920	421229.0178	Fd AlMon: C4 ASLS No. 83-91	*	*	X
775	102+31.51	100.27 RI.	138670.7381	421064.0371	Fd Conc ROW Mon: KGB POT 884+00 100' Lt	*	*	X
774	110+39.45	100.18 RI.	138471.1515	420281.1342	Fd Conc ROW Mon: KGB PT 875+92.0 100' Lt	*	*	X
773	110+39.80	100.51 RI.	138471.3905	420280.7146	Fd BC Mon [617-S]; ASLS 83-91 C5/PT ROW	*	*	X
770	116+63.60	99.71 RI.	138208.6576	419682.2968	Fd Conc ROW Mon: KGB PC 869+67.6 100' Lt	*	*	X
771	116+64.12	100.38 RI.	138208.9204	419681.4723	Fd AlMon [LS 7254]; ASLS 83-91 C6/PC ROW	*	*	X
792	121+74.61	99.64 RI.	137930.1556	419253.8032	Fd AlMon: C2 ASLS No. 80-116	*	*	X
769	123+30.62	99.41 RI.	137844.9605	419123.0997	Fd Conc ROW Mon: KGB POT 863+00 100' Lt	*	*	X
790	128+98.39	99.54 RI.	137535.7141	418646.9419	Fd AlMon: WC C3 ASLS No. 80-116	*	*	X
879	129+57.77	99.60 RI.	137503.4189	418597.1156	Fd Rbr/PC: SE Tallierco Subd	*	*	X
767	132+30.62	99.34 RI.	137354.6353	418368.4628	Fd Conc ROW Mon: KGB POT 854+00 100' Lt	*	*	X

Horizontal Control Points					Description	
Point	Station	Offset	Northing	Easting		
5	79+91.34	24.34 Lt.	139134.7080	423260.8726	Set Rbr/AC: TS KGB-5	
6	99+54.24	18.17 RI.	138659.6384	421362.9900	Set Rbr/AC: TS KGB-6	
7	116+49.70	25.89 RI.	138164.3746	419734.3341	Set Rbr/AC: TS KGB-7	
8	132+05.44	17.00 RI.	137299.2146	418434.4417	Set Rbr/AC: TS KGB-8	
129	135+93.10	2188.20 Lt.	135238.8570	419310.8767	FD RBR/PC: TS-29 (EDLUND)	

Vertical Control Points					Description	
Point	Station	Offset	Northing	Easting	Elevation	
153	88+89	73 Lt.	138834	422408	301.49	TBM-2: RR Spike in 8" Poplar
154	116+59	73 Lt.	138066	419780	295.87	BM-MK2: 3.25" AlMon

- Survey Control Legend
- GPS Control Monument
 - Govt. Control Station
 - Primary Monument
 - Secondary Monument
 - Survey Control Point
 - Benchmark
 - Temporary Benchmark

WORK REQUIRED	PAY ITEM NO.
Construction surveying	642(1)
Office engineering	642(2)
Three person survey party	642(3)
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Set secondary monument	642(5)
Replace existing with primary monument	642(6)
Replace existing with secondary monument	642(7)
Adjust existing monument	642(8)
Reference existing monument	642(9)
Monument case	642(10)
Adjust existing monument case	642(11)
Final traverse	642(12)



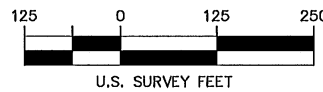
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A3	A9	
STATE	YEAR	
ALASKA	2003	
PROJECT DESIGNATION		
CA-0525(11)/53922		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

STATE OF ALASKA
49th
MICHAEL E. MILLER
LS-7222
REGISTERED PROFESSIONAL LAND SURVEYOR

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

Knik Goose Bay Road
Rehabilitation
and Pathway

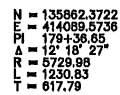
Survey Control Sheet



N = 135847,2680
E = 416231,0810
PI = 158+44,12
A = 33° 25' 07"
R = 2884,17
L = 1670,57
T = 859,80

Point	Station	Offset	Northing	Easting	Elevation	Description
155	146+90	42 Rt.	136511	417176	277.66	TBM-3; N.E. Baseboll of Lum. @ K&B & Edlund
156	166+94	99 Lt.	135952	415333	326.09	BM-MK3A; 3.25" AlMon
167	200+10	69 Lt.	135366	412070	336.46	TBM-4; RR Spike in 10" Poplar

WORK REQUIRED	PAY ITEM NO.
Construction surveying	642(1)
Office engineering	642(2)
Three person survey party	642(3)
Set primary monument	642(4)
Set secondary monument	642(5)
Replace existing with primary monument	642(6)
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Adjust existing monument	642(8)
Reference existing monument	642(9)
Monument case	642(10)
Adjust existing monument case	642(11)
Final traverse	642(12)

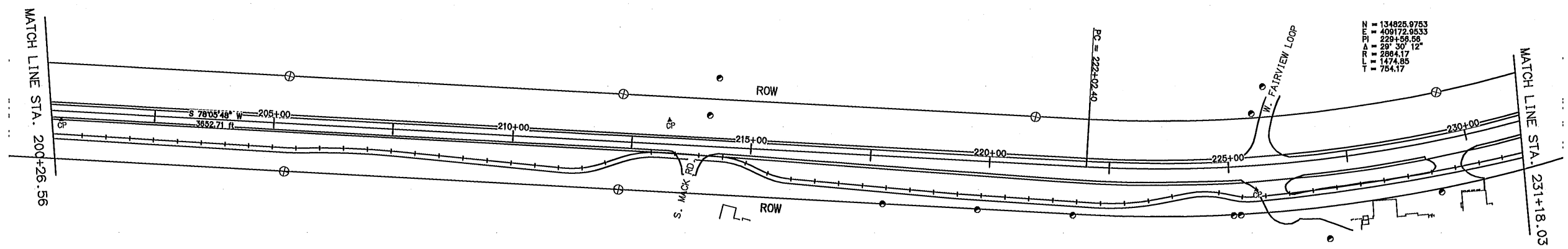


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

Knik Goose Bay Road
Rehabilitation
and Pathway

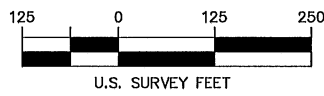
Survey Control Sheet

SHEET NO.		TOTAL SHEETS	
A5		A9	
STATE		YEAR	
ALASKA		2003	
PROJECT DESIGNATION			
CA-0525(11)/53922			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	



Monument Summary Table									
Point	Station	Offset	Northing	Easting	Description	642(6)	642(7)	642(9)	Monument of Record Form
766	205+27.37	100.42 RI.	135425.2862	411529.1966	Fd Conc ROW Mon: KGB POT 781+00 100' LI	*	*	X	X
764	212+27.39	99.89 RI.	135280.3850	410844.3430	Fd Conc ROW Mon: KGB POT 774+00 100' LI	*	*	X	X
900	217+80.36	99.75 RI.	135166.1854	410303.2916	Fd Rbr: SE L3 BI Cheryl Subd	*	*	X	X
901	219+79.99	101.16 RI.	135126.3944	410107.6640	Fd Rbr: SE L4 BI Cheryl Subd	*	*	X	X
902	221+79.88	102.01 RI.	135085.9939	409911.8915	Fd Rbr: SE L5 BI Cheryl Subd	*	*	X	X
903	225+06.70	101.28 RI.	134999.4072	409585.7530	Fd Rbr/PC: SW L5 BI Cheryl Subd	*	*	X	X
904	225+21.21	101.24 RI.	134994.6942	409571.4889	Fd Rbr/PC: Angle Point S Line L6 BI Cher	*	*	X	X
801	226+95.35	166.80 RI.	134993.8596	409377.8128	Fd Rbr/PC: NW 1/16 S19 T17N RIW	*	*	X	X
907	229+29.55	107.11 RI.	134839.2156	409178.2404	Fd Rbr/PC: SE Tr. 8B 1st Add Church Subd	*	*	X	X
751	236+70.30	99.07 RI.	134406.2253	408547.1819	Fd Conc ROW Mon: KGB PC 749+89.7 100' LI	*	*	X	X
605	244+59.27	100.60 RI.	133865.4009	407954.2313	Fd Conc ROW Mon: KGB POT 742+00 100' LI	*	*	X	X
912	245+37.35	100.89 RI.	133833.9708	407895.4805	Fd Rbr: SW L4 B7 Donovan Estates	*	*	X	X
750	250+13.77	101.53 RI.	133519.3527	407537.7223	Fd Conc ROW Mon: KGB PT 736+45.2 100' LI	*	*	X	X
913	250+69.60	101.72 RI.	133480.1130	407494.1214	Fd Rbr: SW L7 B7 Donovan Estates	*	*	X	X
914	252+36.80	101.93 RI.	133354.6601	407370.5963	Fd Rbr: E'most L8 B7 Donovan Estates	*	*	X	X
918	253+69.68	102.60 RI.	133247.9267	407280.1950	Fd Rbr: E'most L12 B7 Donovan Estates	*	*	X	X
604	256+22.73	101.35 RI.	133027.0460	407131.5765	Fd Conc ROW Mon: KGB PC 730+35.8 100' LI	*	*	X	X
919	260+35.84	100.97 RI.	132671.0598	406921.9775	Fd Rbr: S'most L17 B7 Donovan Estates	*	*	X	X

WORK REQUIRED	PAY ITEM NO.
Construction surveying	642(1)
Office engineering	642(2)
Three person survey party	642(3)
Set primary monument	642(4)
Set secondary monument	642(5)
Replace existing with primary monument	642(6)
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Adjust existing monument	642(8)
Reference existing monument	642(9)
Monument case	642(10)
Adjust existing monument case	642(11)
Final traverse	642(12)

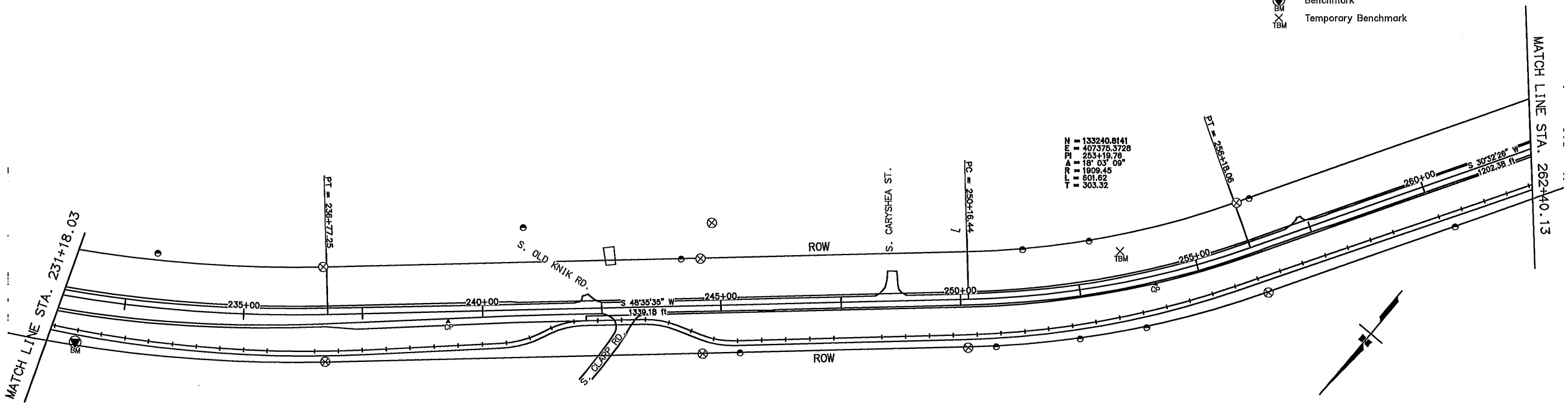


NOTES:
1. Refer to Sheet S1 for Notes, Certificates, and Control Information.

Horizontal Control Points					
Point	Station	Offset	Northing	Easting	Description
13	200+53.62	17.99 RI.	135442.3485	412009.7626	Set Rbr/AC: TS KGB-13
14	213+27.46	50.93 LI.	135112.1589	410777.5334	Set Rbr/AC: TS KGB-14
15	225+55.57	49.82 RI.	134934.7036	409554.4909	Set Rbr/AC: TS KGB-15
16	239+28.30	20.56 RI.	134176.5430	408405.4145	Set Rbr/AC: TS KGB-16
17	254+06.12	17.17 RI.	133166.0706	407325.1037	Set Rbr/AC: TS KGB-17

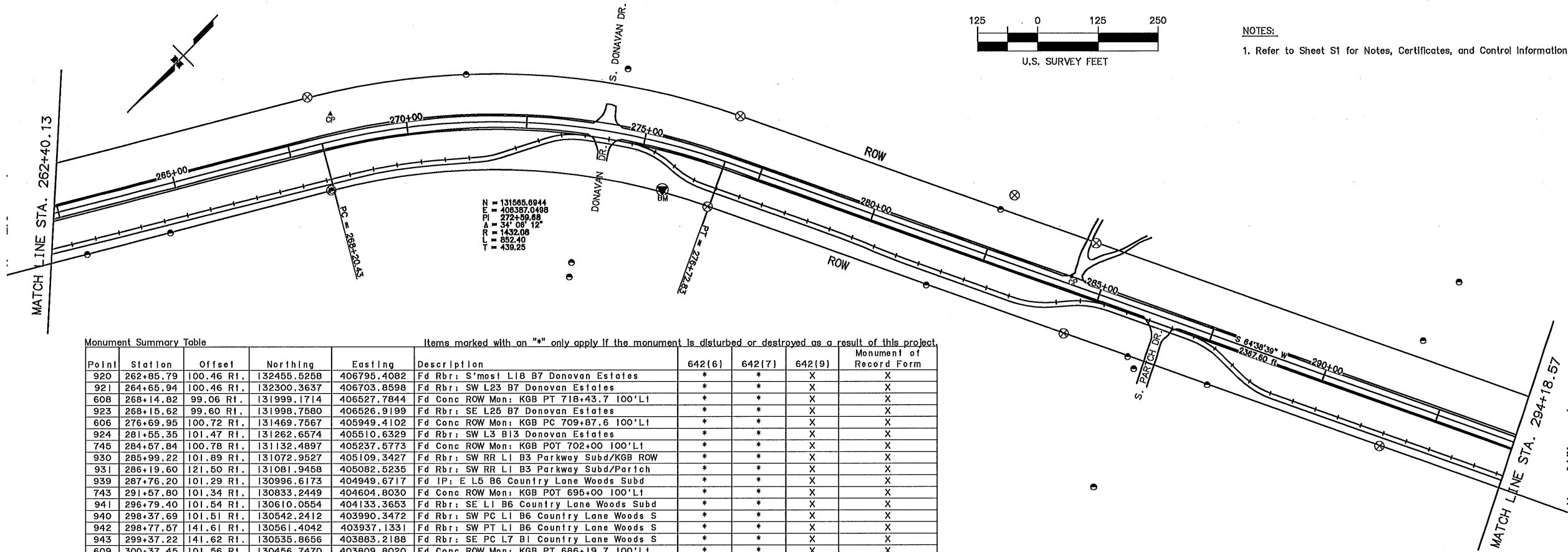
Vertical Control Points					
Point	Station	Offset	Northing	Easting	Elevation
158	234+59	93 RI.	134713	408977	303.52
159	253+48	66 LI.	133160	407425	330.26

- Survey Control Legend
- GPS Control Monument
 - Govt. Control Station
 - Primary Monument
 - Secondary Monument
 - Survey Control Point
 - Benchmark
 - Temporary Benchmark



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
Knik Goose Bay Road
Rehabilitation
and Pathway
Survey Control Sheet

DESIGNED BY: 03/11/2003
CHECKED BY: MEM
DRAFTED BY: BMK
VIEW: 03/11/2003
SPECIFICATIONS: SCALE: 1"=250'
COMPUTER DESIGNATION:



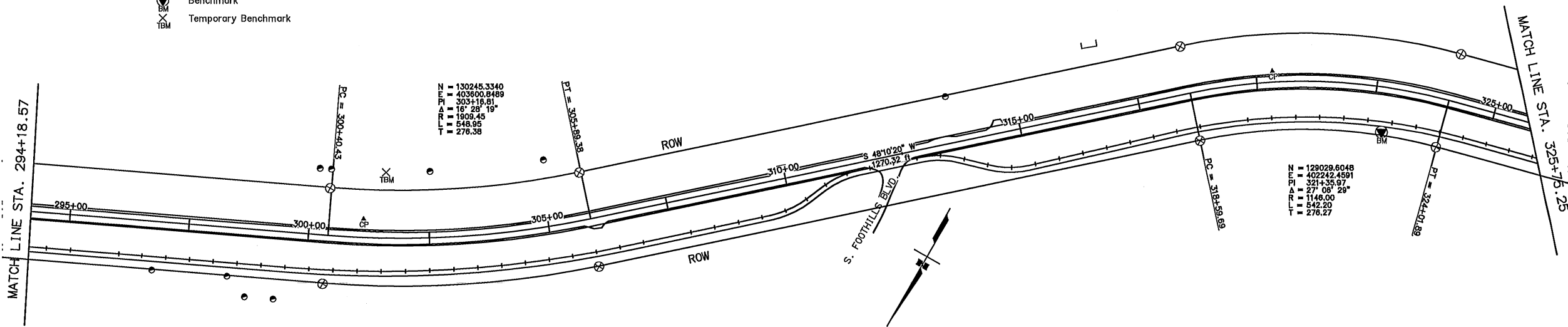
Monument Summary Table						Items marked with an "*" only apply if the monument is disturbed or destroyed as a result of this project.			
Point	Station	Offset	Northing	Eastng	Description	642(6)	642(7)	642(9)	Monument of Record Form
920	262+85.79	100.46 Rl.	132455.5258	406795.4082	Fd Rbr: S'most L18 B7 Donovan Estates	*	*	X	X
921	264+65.94	100.46 Rl.	132300.3637	406703.8598	Fd Rbr: SW L23 B7 Donovan Estates	*	*	X	X
608	268+14.82	99.06 Rl.	131999.1714	406527.7844	Fd Conc ROW Mon: KGB PT 718+43.7 100' Lt	*	*	X	X
923	268+15.62	99.60 Rl.	131998.7580	406526.9199	Fd Rbr: SE L25 B7 Donovan Estates	*	*	X	X
606	276+69.95	100.72 Rl.	131469.7567	405949.4102	Fd Conc ROW Mon: KGB PC 709+87.6 100' Lt	*	*	X	X
924	281+55.35	101.47 Rl.	131262.6574	405510.6329	Fd Rbr: SW L3 B13 Donovan Estates	*	*	X	X
745	284+57.84	100.78 Rl.	131132.4897	405237.5773	Fd Conc ROW Mon: KGB POT 702+00 100' Lt	*	*	X	X
930	285+99.22	101.89 Rl.	131072.9527	405109.3427	Fd Rbr: SW RR L1 B3 Parkway Subd/KGB ROW	*	*	X	X
931	286+19.60	121.50 Rl.	131081.9458	405082.5235	Fd Rbr: SW RR L1 B3 Parkway Subd/Parich	*	*	X	X
939	287+76.20	101.29 Rl.	130996.6173	404949.6717	Fd LP: E L5 B6 Country Lane Woods Subd	*	*	X	X
743	291+57.80	101.34 Rl.	130833.2449	404604.8030	Fd Conc ROW Mon: KGB POT 695+00 100' Lt	*	*	X	X
941	296+79.40	101.54 Rl.	130610.0554	404133.3653	Fd Rbr: SE L1 B6 Country Lane Woods Subd	*	*	X	X
940	298+37.69	101.51 Rl.	130542.2412	403990.3472	Fd Rbr: SW PC L1 B6 Country Lane Woods S	*	*	X	X
942	298+77.57	141.61 Rl.	130561.4042	403937.1331	Fd Rbr: SW PT L1 B6 Country Lane Woods S	*	*	X	X
943	299+37.22	141.62 Rl.	130535.8656	403883.2188	Fd Rbr: SE PC L7 B1 Country Lane Woods S	*	*	X	X
609	300+37.45	101.56 Rl.	130456.7470	403809.8020	Fd Conc ROW Mon: KGB PT 686+19.7 100' Lt	*	*	X	X
740	305+86.03	101.22 Rl.	130138.7919	403330.0240	Fd Conc ROW Mon: KGB PC 680+70.3 100' Lt	*	*	X	X
610	318+59.77	101.19 Rl.	129289.2050	402380.7855	Fd Conc ROW Mon: KGB PT 667+96.7 100' Lt	*	*	X	X
611	324+00.96	100.76 Rl.	129057.0772	401950.4723	Fd Conc ROW Mon: KGB PC 662+54.9 100' Lt	*	*	X	X

Horizontal Control Points					
Point	Station	Offset	Northing	Eastng	Description
18	268+51.09	55.78 Lt.	131888.3996	406641.8153	Set Rbr/AC: TS KGB-18
19	284+35.13	16.10 Lt.	131036.5936	405308.1546	Set Rbr/AC: TS KGB-19
20	301+13.07	38.53 Lt.	130297.1820	403803.3807	Set Rbr/AC: TS KGB-20
21	320+34.37	23.18 Lt.	129088.2884	402322.4683	Set Rbr/AC: TS KGB-21

Vertical Control Points					
Point	Station	Offset	Northing	Eastng	Elevation
160	275+63	95 Rl.	131511	406041	315.80
161	301+59	137 Lt.	130190	403812	304.69
162	322+74	93 Rl.	129086	402064	285.04

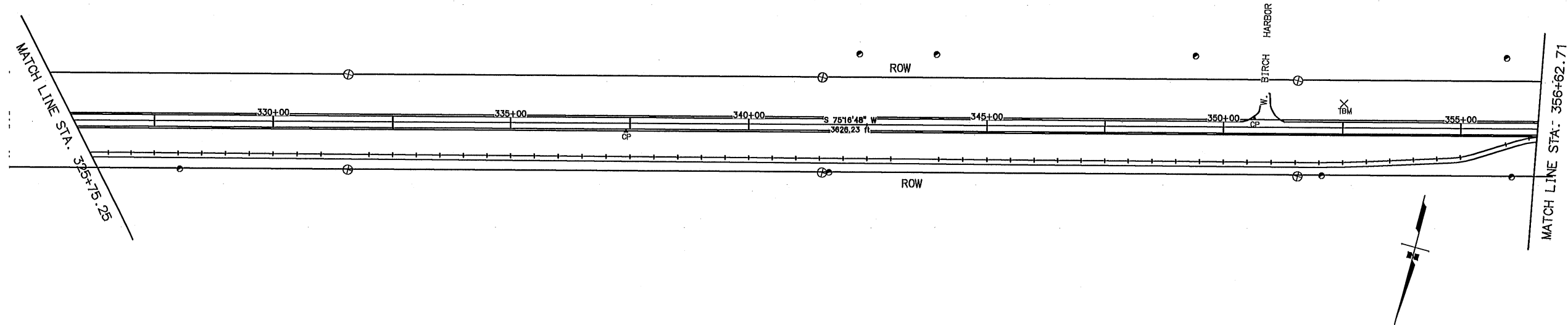
WORK REQUIRED	PAY ITEM NO.
Construction surveying	642(1)
Office engineering	642(2)
Three person survey party	642(3)
Set primary monument	642(4)
Set secondary monument	642(5)
Replace existing with primary monument	642(6)
Replace existing with secondary monument	642(7)
Adjust existing monument	642(8)
Reference existing monument	642(9)
Monument case	642(10)
Adjust existing monument case	642(11)
Final traverse	642(12)

- Survey Control Legend
- GPS Control Monument
 - Govt. Control Station
 - Primary Monument
 - Secondary Monument
 - Survey Control Point
 - Benchmark
 - Temporary Benchmark



STATE OF ALASKA
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Rehabilitation
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Survey Control Sheet

SHEET NO.	TOTAL SHEETS	
A7	A9	
STATE	YEAR	
ALASKA	2003	
PROJECT DESIGNATION		
CA-0525(11)/53922		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

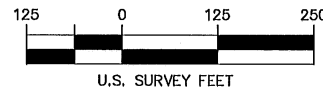


WORK REQUIRED	PAY ITEM NO.
Construction surveying	642(1)
Office engineering	642(2)
Three person survey party	642(3)
Set primary monument	642(4)
Set secondary monument	642(5)
Replace existing with primary monument	642(6)
Replace existing with secondary monument	642(7)
Adjust existing monument	642(8)
Reference existing monument	642(9)
Monument case	642(10)
Adjust existing monument case	642(11)
Final traverse	642(12)

Monument Summary Table

Point	Station	Offset	Northing	Easting	Description	642(6)	642(7)	642(9)	Record Form
944	328+03.92	101.04 Rl.	128954.9763	401560.7494	Fd Rbr: SW Tr-B Reliance Subd	*	*	X	X
735	331+55.97	100.80 Rl.	128865.2912	401220.3137	Fd Conc ROW Mon: KGB POT 655+00 100'Li	*	*	X	X
737	341+56.14	100.86 Rl.	128611.2139	400252.9584	Fd Conc ROW Mon: KGB POT 645+00 100'Li	*	*	X	X
945	341+70.62	100.23 Rl.	128606.9236	400239.1109	Fd Rbr: SE L26 B5 Birch Harbor Estates U	*	*	X	X
733	351+55.32	102.50 Rl.	128358.9093	399286.1562	Fd Conc ROW Mon: KGB POT 635+00 100'Li	*	*	X	X
946	352+06.19	100.54 Rl.	128344.0891	399237.4545	Fd Rbr: SE L18 B5 Birch Harbor Estates U	*	*	X	X
947	356+08.76	101.03 Rl.	128242.2711	398847.9677	Fd Rbr: SE L15 B5 Birch Harbor Estates U	*	*	X	X
963	359+38.65	100.65 Rl.	128168.0796	398528.9999	Fd Rbr: SE L14 B6 Birch Harbor Estates U	*	*	X	X
613	360+28.02	100.60 Rl.	128135.3257	398442.6817	Fd Conc ROW Mon: KGB PT 626+26.8 100'Li	*	*	X	X
964	360+70.53	100.79 Rl.	128123.6591	398399.3843	Fd Rbr: SE L13 B6 Birch Harbor Estates U	*	*	X	X
965	361+90.60	104.53 Rl.	128088.5585	398277.7815	Fd Rbr: SE L12 B6 Birch Harbor Estates U	*	*	X	X
966	363+09.26	106.64 Rl.	128044.8909	398160.4297	Fd Rbr: SE L11 B6 Birch Harbor Estates U	*	*	X	X
967	364+27.87	107.50 Rl.	127992.8710	398046.4916	Fd Rbr: SE L10 B6 Birch Harbor Estates U	*	*	X	X
968	368+43.67	149.65 Rl.	127787.1637	397652.1296	Fd BC Mon: SW PT L97B6 Birch Harbor Estia	*	*	X	X
948	380+41.14	151.77 Rl.	126983.6869	396731.7069	Fd Rbr: NE L1 B3 Seiflers Bay Subd Unit	*	*	X	X
615	384+22.38	100.54 Rl.	126623.7969	396537.3234	Fd Conc ROW Mon: KGB PC 602+22.3 100'Li	*	*	X	X

Items marked with an "*" only apply if the monument is disturbed or destroyed as a result of this project.



Horizontal Control Points

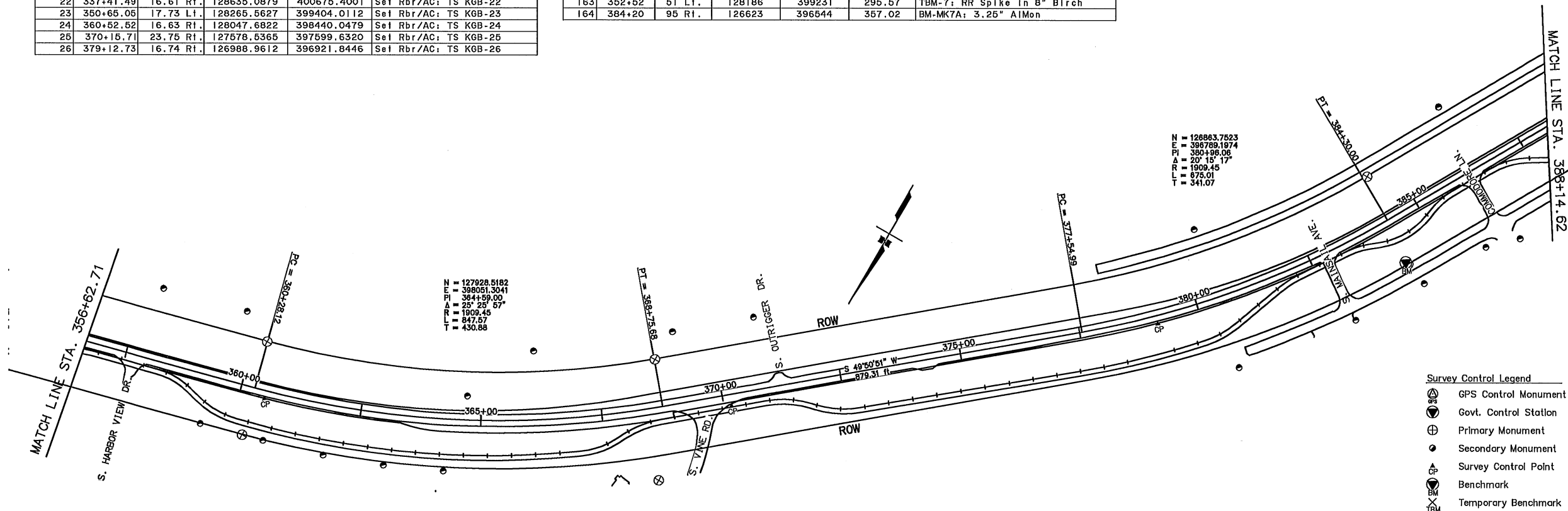
Point	Station	Offset	Northing	Easting	Description
22	337+41.49	16.61 Rl.	128635.0879	400675.4001	Set Rbr/AC: TS KGB-22
23	350+65.05	17.73 Li.	128265.5627	399404.0112	Set Rbr/AC: TS KGB-23
24	360+62.52	16.63 Rl.	128047.6822	398440.0479	Set Rbr/AC: TS KGB-24
25	370+15.71	23.75 Rl.	127578.6365	397599.6320	Set Rbr/AC: TS KGB-25
26	379+12.73	16.74 Rl.	126988.9612	396921.8446	Set Rbr/AC: TS KGB-26

Vertical Control Points

Point	Station	Offset	Northing	Easting	Elevation	Description
163	352+52	51 Li.	128186	399231	295.57	TBM-7: RR Spike in 8" Birch
164	384+20	95 Rl.	126623	396544	357.02	BM-MK7A: 3.25" AlMon

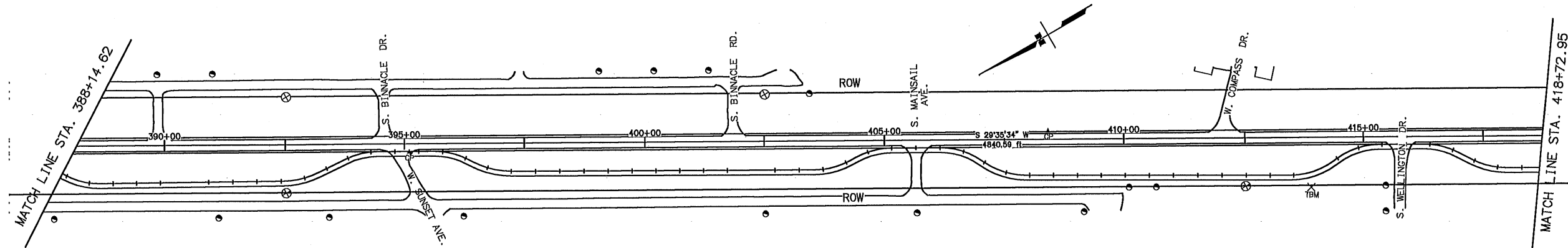
NOTES:

- Refer to Sheet S1 for Notes, Certificates, and Control Information.



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Survey Control Sheet

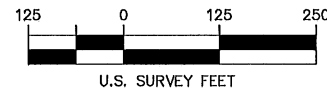
SHEET NO.	TOTAL SHEETS	
A8	A9	
STATE	YEAR	
ALASKA	2003	
PROJECT DESIGNATION		
CA-0525(11)/53922		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION



Monument Summary Table									
Items marked with an "*" only apply if the monument is disturbed or destroyed as a result of this project.									
Point	Station	Offset	Northing	Easting	Description	642(6)	642(7)	642(9)	Monument of Record Form
732	392+52.14	100.43 Rt.	125901.8748	396127.4427	Fd Conc ROW Mon: KGB POT 594+00 100' Lt	*	*	X	X
977	402+52.85	150.86 Rt.	125056.6068	395589.4037	Fd Rbr: PC E Line L10 B4 Settlers Bay Un	*	*	X	X
979	409+16.71	150.93 Rt.	124479.3767	395261.5100	Fd Rbr/PC: S'most L15 B4 Settlers Bay Un	*	*	X	X
980	410+10.65	100.76 Rt.	124372.9205	395258.7374	Fd Rbr: Inx KGB ROW/Mainsail Culdesac/Lt	*	*	X	X
981	410+67.33	100.80 Rt.	124323.6533	395230.7115	Fd Rbr/PC: SE L16 B4 Settlers Bay Unit I	*	*	X	X
729	412+51.78	100.34 Rt.	124163.0355	395140.0289	Fd Conc ROW Mon: KGB POT 574+00 100' Lt	*	*	X	X
982	415+46.50	100.86 Rt.	123907.0202	394994.0335	Fd Rbr: S'most L17 B4 Settlers Bay Unit	*	*	X	X
993	418+84.55	100.16 Rt.	123612.7147	394827.7035	Fd Rbr: S'most L26 B8 Victoria Estates P	*	*	X	X
994	419+84.48	100.12 Rt.	123625.8035	394778.3886	Fd Rbr: S'most L25 B8 Victoria Estates P	*	*	X	X
995	420+74.44	100.11 Rt.	123447.5677	394733.9730	Fd Rbr: S'most L24 B8 Victoria Estates P	*	*	X	X
996	421+74.46	100.02 Rt.	123360.5554	394684.6568	Fd Rbr: S'most L23 B8 Victoria Estates P	*	*	X	X
728	422+42.37	99.91 Rt.	123301.4473	394651.2094	Fd Conc ROW Mon: KGB POT 564+00 100' Lt	*	*	X	X
997	422+99.44	100 Rt.	123251.8706	394622.9601	Fd Rbr: S'most L22 B8 Victoria Estates P	*	*	X	X
998	424+59.37	99.94 Rt.	123112.7731	394544.0239	Fd Rbr: S'most L21 B8 Victoria Estates P	*	*	X	X
999	425+79.40	99.95 Rt.	123008.4003	394484.7396	Fd Rbr: SE L20 B8 Victoria Estates Phase	*	*	X	X
629	440+21.42	99.39 Rt.	121872.2008	393681.2395	Fd Conc ROW Mon: KGB PC 550+39.9 100' Lt	*	*	X	X

NOTES:
1. Refer to Sheet S1 for Notes, Certificates, and Control Information.

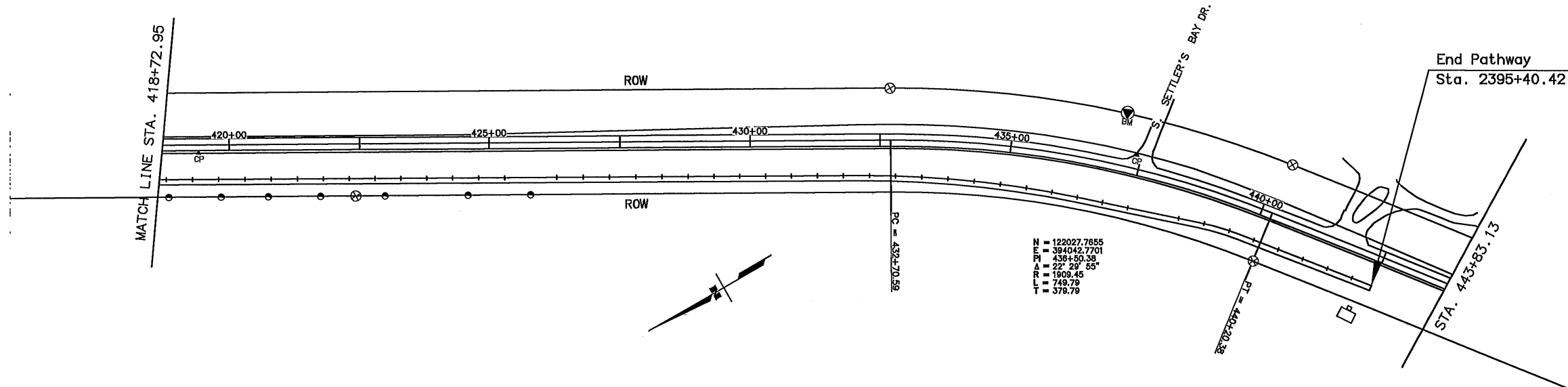
WORK REQUIRED	PAY ITEM NO.
Construction surveying	642(1)
Office engineering	642(2)
Three person survey party	642(3)
Set primary monument	642(4)
Set secondary monument	642(5)
Replace existing with primary monument	642(6)
Replace existing with secondary monument	642(7)
Adjust existing monument	642(8)
Reference existing monument	642(9)
Monument case	642(10)
Adjust existing monument case	642(11)
Final traverse	642(12)



Horizontal Control Points					
Point	Station	Offset	Northing	Easting	Description
27	395+10.59	17.51 Lt.	125636.1939	396071.9080	Set Rbr/AC: TS KGB-27
28	408+41.83	17.08 Lt.	124461.6254	395444.5851	Set Rbr/AC: TS KGB-28
29	419+41.74	15.48 Rt.	123521.1686	394873.0879	Set Rbr/AC: TS KGB-29
30	437+41.66	26.26 Lt.	121962.9326	393968.7485	Set Rbr/AC: TS KGB-30

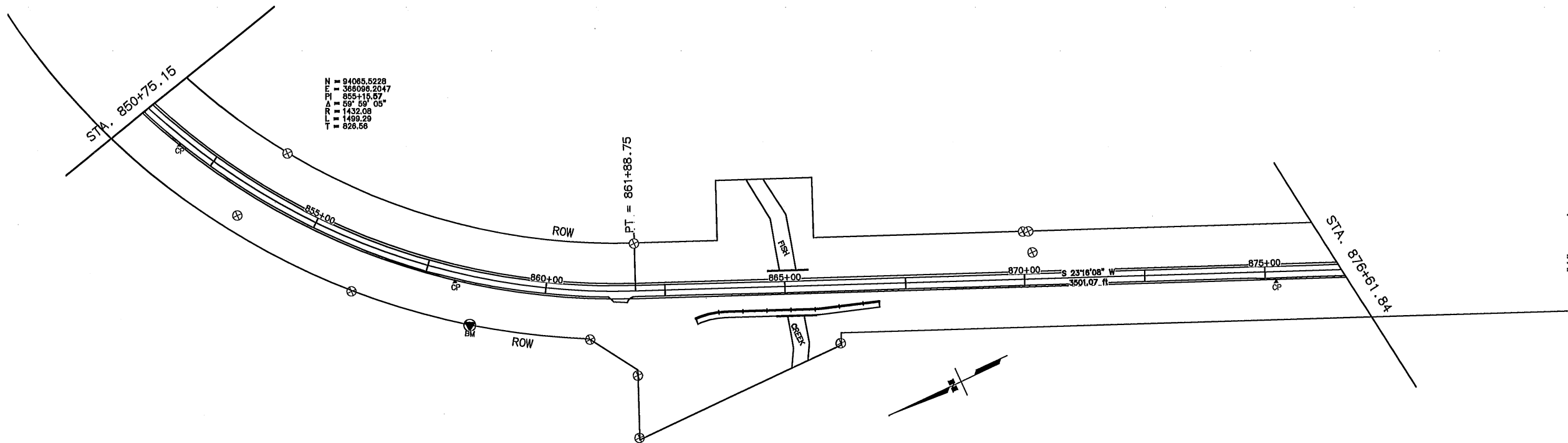
Vertical Control Points					
Point	Station	Offset	Northing	Easting	Elevation
165	413+90	104 Rt.	124045	395069	283.53
166	437+07	102 Lt.	121938	394049	248.81

- Survey Control Legend
- GPS Control Monument
 - Govt. Control Station
 - Primary Monument
 - Secondary Monument
 - Survey Control Point
 - Benchmark
 - Temporary Benchmark



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Fish Creek Bridge Crossing



N = 84065.5228
E = 368096.2047
PI = 855+15.87
Δ = 59° 59' 05"
R = 1432.08
L = 1499.29
T = 828.56

WORK REQUIRED	PAY ITEM NO.
Construction surveying	642(1)
Office engineering	642(2)
Three person survey party	642(3)
Set primary monument	642(4)
Set secondary monument	642(5)
Replace existing with primary monument	642(6)
Replace existing with secondary monument	642(7)
Adjust existing monument	642(8)
Reference existing monument	642(9)
Monument case	642(10)
Adjust existing monument case	642(11)
Final traverse	642(12)

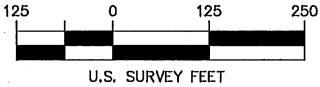
- Survey Control Legend
- GPS Control Monument
 - Govt. Control Station
 - Primary Monument
 - Secondary Monument
 - Survey Control Point
 - Benchmark
 - Temporary Benchmark

Point	Station	Offset	Northing	Easting	Description
55	851+73.53	16.45 Rl.	94040.9261	366447.2878	Set Rbr/AC; TS KGB-55
56	858+12.69	19.12 Rl.	93639.8075	365946.3605	Set Rbr/AC; TS KGB-56
57	876+23.40	20.67 Rl.	92087.8516	365223.2648	Set Rbr/AC; TS KGB-57

Point	Station	Offset	Northing	Easting	Elevation	Description
182	858+61	101 Rl.	93649	365851	72.57	BM-MK16 RESET; 2.5" BC w/ Datum point
183	885+88	70 Lt.	91074	364886	91.40	TBM-17; RR Spike in 8" Birch w/ BT Tag

Monument Summary Table										Items marked with an "*" only apply if the monument is disturbed or destroyed as a result of this project.			
Point	Station	Offset	Northing	Easting	Description	642(6)	642(7)	642(9)	Monument of Record Form				
675	860+96.22	101.19 Rl.	93435.4257	365718.5461	Fd Rbr/AC; KGB ROW 129+20 100' Lt	*	*	X	X				
672	861+87.74	305.76 Rl.	93427.6051	365489.0495	Fd Conc ROW Mon; KGB ROW 128+23.9 305.2'	*	*	X	X				
674	861+87.94	175.73 Rl.	93375.9871	365608.4033	Fd Conc ROW Mon; KGB ROW 128+23.9 175' Lt	*	*	X	X				
673	861+88.01	176.21 Rl.	93376.1069	365607.9309	Fd Rbr/AC; KGB ROW 128+23.9 175' Lt	*	*	X	X				
677	866+11.31	121.28 Rl.	92965.5037	365491.1493	Fd Conc ROW Mon; KGB ROW 124+00 118' Lt	*	*	X	X				
678	866+12.07	121.32 Rl.	92964.8242	365490.8140	Fd AlMon; KGB ROW 124+00 118' Lt	*	*	X	X				

NOTES:
1. Refer to Sheet S1 for Notes, Certificates, and Control Information.



SHEET NO.	TOTAL SHEETS	
A9	A9	
STATE	YEAR	
ALASKA	2003	
PROJECT DESIGNATION		
CA-0525(11)/53922		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
Knik Goose Bay Road
Rehabilitation
and Pathway
Survey Control Sheet

NOTES:

1. Refer to Sheet S1 for Notes, Certificates, and Control Information.
2. This is a supplemental sheet showing the un-paved portion of Knik Goose Bay Road. Please refer to sheets 1-8 for additional Survey Information.
3. This sheet drawn October 20, 2003.

WORK REQUIRED	PAY ITEM NO.
Construction surveying	642(1)
Office engineering	642(2)
Three person survey party	642(3)
Set primary monument	642(4)
Set secondary monument	642(5)
Replace existing with primary monument	642(6)
Replace existing with secondary monument	642(7)
Adjust existing monument	642(8)
Reference existing monument	642(9)
Monument case	642(10)
Adjust existing monument case	642(11)
Final traverse	642(12)

Survey Control Legend

- GPS Control Monument
- Govt. Control Station
- Primary Monument
- Secondary Monument
- Survey Control Point
- Benchmark
- Temporary Benchmark
- Airport Light

Horizontal Control Points

Point	Station	Offset	Northing	Easting	Description
61	981+19.39	53.51 Lt.	84246.2984	358386.6986	Set Rbr/AC: TS KGB-61
62	994+39.63	43.10 Rt.	83295.9187	357459.3943	Set Rbr/AC: TS KGB-62
63	1013+04.48	11.83 Rt.	81561.7752	356755.8659	Set Rbr/AC: TS KGB-63
64	1030+92.25	27.68 Lt.	79891.2100	356117.9787	Set Rbr/AC: TS KGB-64
110	1052+38.09	6.12 Rt.	77946.7995	355208.2145	Set Rbr/AC: AP GPS

Monument Summary Table

Point	Station	Offset	Northing	Easting	Description	642(6)	642(7)	642(9)	Monument of Record Form
703	988+84.52	99.58 Rt.	83765.9735	357771.7618	Fd Conc ROW Mon: KGB POT 1+21.4 100' Lt	*	*	X	X
861	1023+59.31	58.39 Rt.	80602.4569	356314.7903	Fd BC 16L0 : 1/4 S81S9 T16N R3W	*	*	X	X

N = 78384.1139
E = 355420.8752
PI = 1047+51.83
A = 0° 59' 24"
R = 3000.00
L = 51.83
T = 26.92

N = 77609.4324
E = 355056.0722
PI = 1056+08.25
A = 28° 34' 07"
R = 400.00
L = 189.45
T = 101.84

Vertical Control Points

Point	Station	Offset	Northing	Easting	Elevation	Description
TBM 21	1012+16	43 Lt.	81624	356840	84.66	Set RR Spike in 12" Birch
TBM 22	1041+00	48 Lt.	78959	355732	83.72	Set RR Spike in 8" Birch
BM GB-2	1045+77	74 Rt.	78574	355425	79.67	Set Rod w/ Datum Point



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Supplemental
Survey Control Sheet