

SURVEY NOTES

- The information provided here is based on field surveys and Unmanned Aerial System surveys (UAS) performed by R&M Consultants, Inc. in 2019. GPS surveys were performed using Trimble and Javad dual frequency receivers. Optical surveys were performed using Leica TC1100 and TC1105 total stations. Vertical control surveys were performed using a Leica DNA-10 digital level. UAS surveys were performed with a LiDAR USA Snoopy A-Series HDL-32 LiDAR unit with on-board STIM300 IMU and airborne PPK GPS receiver. PPK base-station data was collected by Trimble dual frequency receivers at two ground control stations each flight. Base data was post processed simultaneously with airborne GPS data.
- All dimensions and coordinates shown here are in U.S. Survey Feet.
- Property lines and township lines shown here are approximate.
- No utility easements are depicted here.

VERTICAL CONTROL STATEMENT

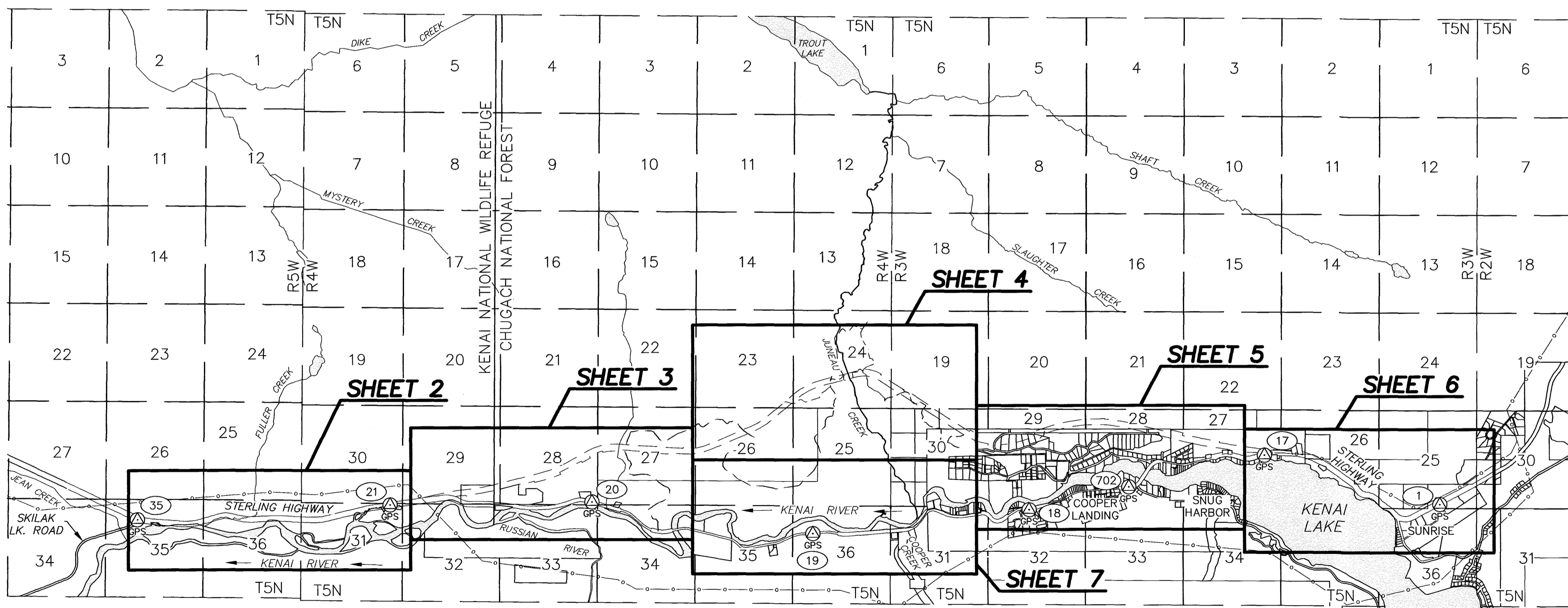
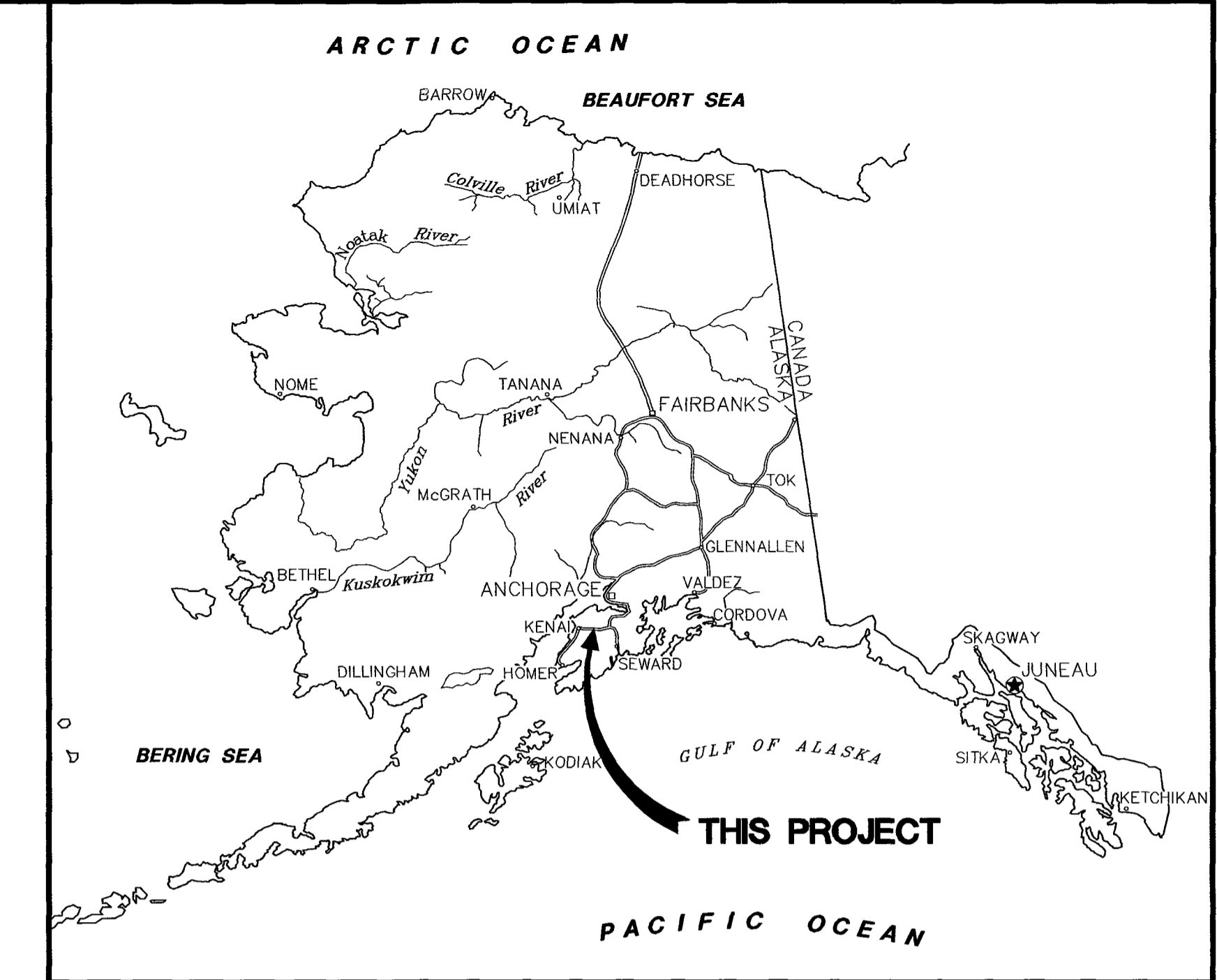
Basis of Vertical Control:
 Project Vertical Datum is NAVD88, based on NGS published bench marks. Differential levels were used to carry elevations between benchmarks and primary control.
 BM's held as vertical control constraints: V77, A78, B78, C78, D78 & E78.
 BM's with newly established elevations: Q77, R77 Reset, S77, T77, U77, X77, Y77, Z77 & F78.
 BM's looked for but not found: W77 & G78.

HORIZONTAL CONTROL STATEMENT

Coordinate System:
 This project is located entirely within Low Distortion Projection (LDP) Anchorage 2015, a U.S. Survey Foot grid coordinate system developed by the Alaska Department of Transportation.
 Anchorage 2015:
 Linear Unit: U.S. Survey Foot
 Datum: NAD83
 Ellipsoid: GRS 80
 Projection: Transverse Mercator
 Latitude of grid origin: 61°30'00.0" N (61.50°)
 Central meridian (grid origin): 149°35'00.0" W (-149.58333...°)
 False northing: 550,000.0 ft.
 False easting: 250,000.0 ft.
 Grid scale factor: 1.000013 (exact)

Basis of Coordinates:
 Basis of Coordinates is NGS OPUS, NAD_83(2011)(EPOCH:2010.000). Horizontal coordinates for control points CP1 & CP35 were established by averaging 3 OPUS solutions at each station. CP1 & CP35 lie at the extreme east and west ends of this project. All primary control points (CP2 - CP34) were constrained between CP1 & CP35.
 Control Point 1: 60° 29' 17.05073" N Mean OPUS
 149° 43' 17.37126" W Mean OPUS
 180079.8766 LDP Northing
 225080.3846 LDP Easting
 Control Point 35: 60° 29' 05.12358" N Mean OPUS
 150° 06' 42.31695" W Mean OPUS
 179225.1198 LDP Northing
 154679.8171 LDP Easting

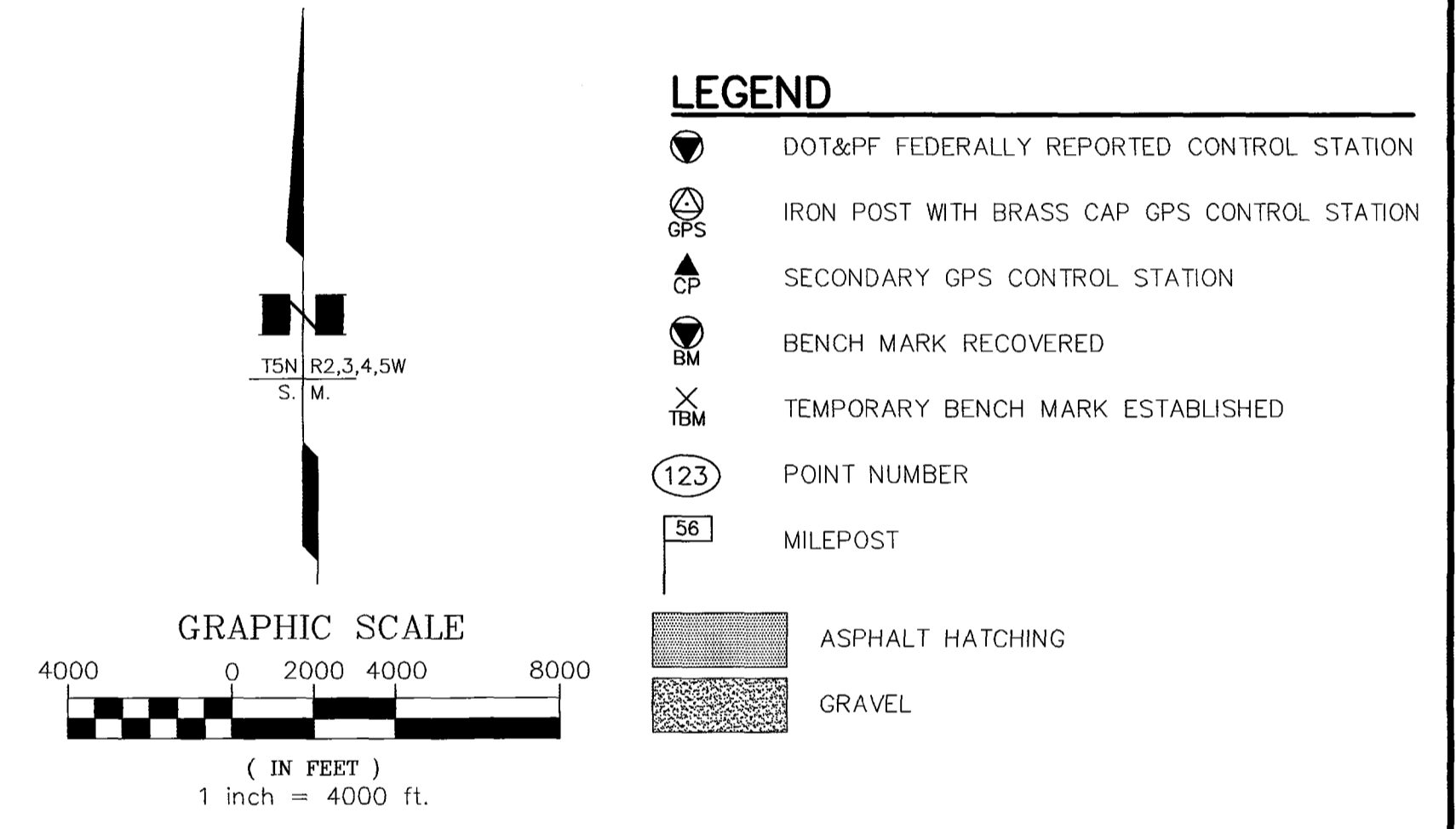
Basis of Bearing:
 Project bearings are Anchorage 2015 LDP grid bearings.



VICINITY MAP & SHEET DIAGRAM

SCALE: 1" = 4000'
 Sources:
 USGS Quadrangles KENAI B1 & C1, SEWARD B8 & C8
 Kenai Peninsula Borough GIS data
 BLM Protractions
 Google Earth Pro

Control Stations shown this sheet are macro control used to constrain GPS Static adjustments this survey.
 Reference SCD ROS plat 2019-10, Seward Recording District.



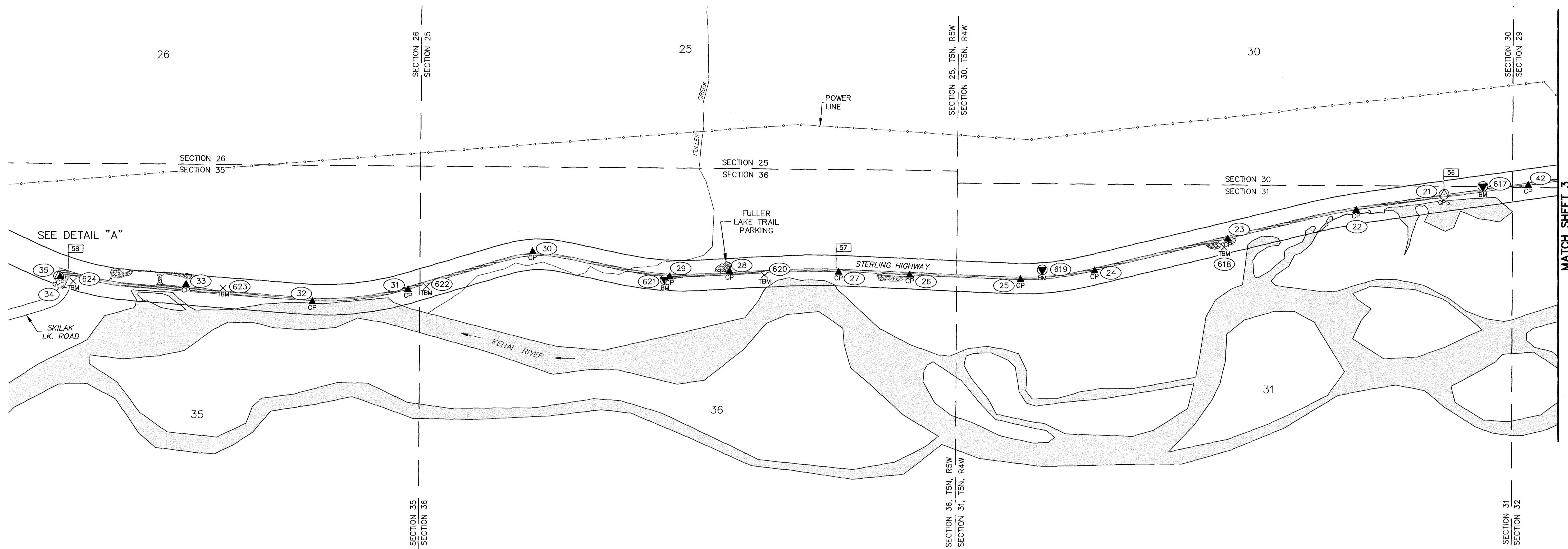
SURVEYOR'S CERTIFICATE

I, Randal H. Brinker, hereby certify that I am a registered professional land surveyor 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 on this drawing actually exist as described, and that all dimensions and other details are true and correct to the best of my knowledge.

Randal H. Brinker
 RANDAL H. BRINKER, L.S. 8852
 February 13, 2020
 Date

Seward Recording District
 State Business - No Fee
 This survey does not constitute a subdivision as defined by AS 40.15.900

CONSULTANT SURVEYOR PREPARED BY: R&M CONSULTANTS, INC. 9101 VANGUARD DRIVE ANCHORAGE, AK. 99507 (907) 522-1707 CERTIFICATE OF AUTHORIZATION No. AEC0111	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SURVEY CONTROL DIAGRAM RECORD OF SURVEY STERLING HIGHWAY MP 44.5-58 Federal Project No. 0212015 State Project No. Z530140000	
	Located Within Section 30, T5N, R2W, Sections 19, 25-32 & 36, T5N, R3W, Sections 23-36, T5N, R4W, Sections 35 & 36, T5N, R5W, Seward Meridian, Alaska	
DRAWN: RHB CHECKED: WNP	PROJECT No. 2768.01 DATE: 1/3/2019	SCALE: 1" = 4000' SHEET: 1 OF 10



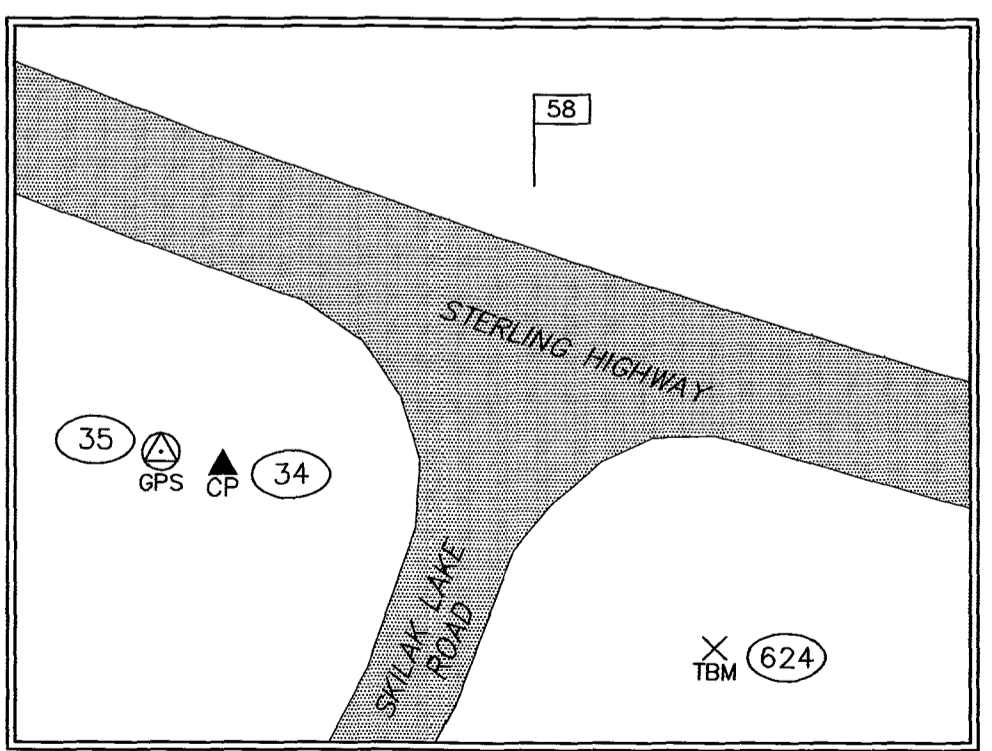
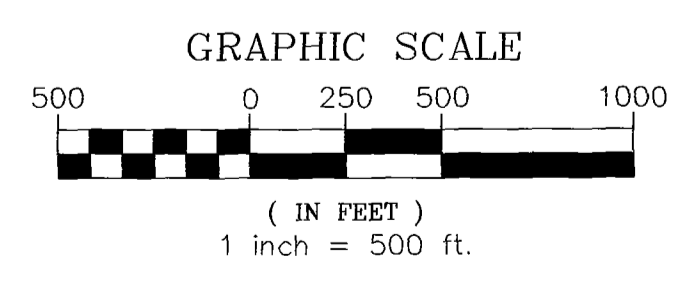
MATCH SHEET 3

LEGEND

- IRON POST WITH BRASS CAP GPS CONTROL STATION
- SECONDARY GPS CONTROL STATION
- BENCH MARK RECOVERED
- TEMPORARY BENCH MARK ESTABLISHED
- POINT NUMBER
- MILEPOST
- ASPHALT HATCHING
- GRAVEL HATCHING



TSN, R4W
SECS. 30, 31
TSN, R5W
SECS. 25, 26, 35, 36
S. M.



DETAIL "A"
1" = 50'

Seward Recording District
State Business - No Fee
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PREPARED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, AK. 99507
(907) 522-1707
CERTIFICATE OF AUTHORIZATION
No. AECC111

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
SURVEY CONTROL DIAGRAM
RECORD OF SURVEY
STERLING HIGHWAY MP 44.5-58
Federal Project No. 0212015
State Project No. Z530140000

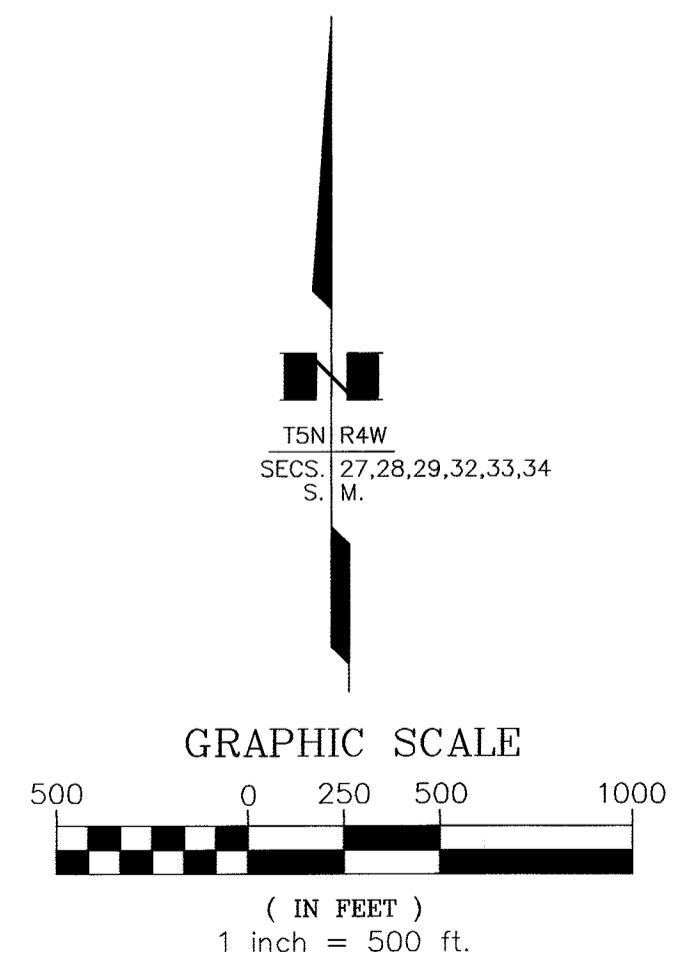
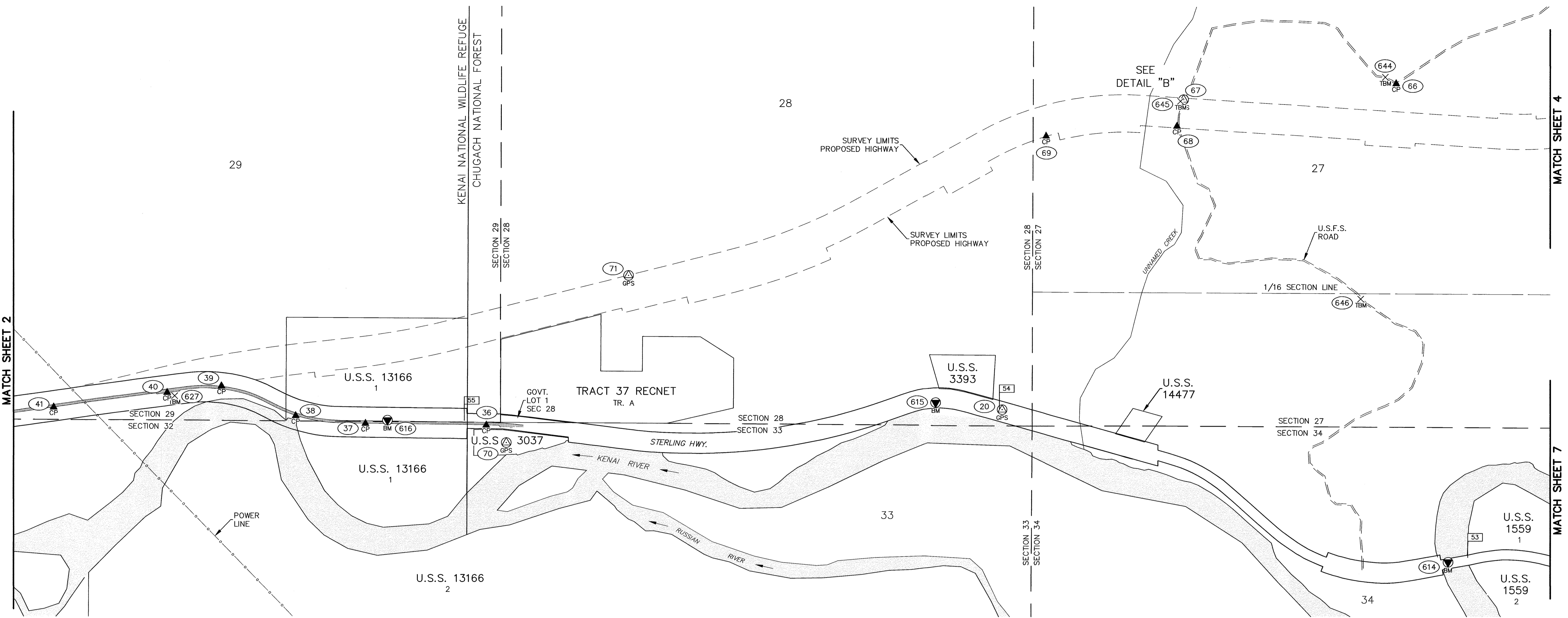
Located Within
Section 30, T5N, R2W,
Sections 19, 25-32 & 36, T5N, R3W,
Sections 23-36, T5N, R4W,
Sections 35 & 36, T5N, R5W,
Seward Meridian, Alaska

DRAWN	RHB	PROJECT No.	2768.01	SCALE	1" = 500'
CHECKED	WNP	DATE	1/3/2019	SHEET	2 OF 10

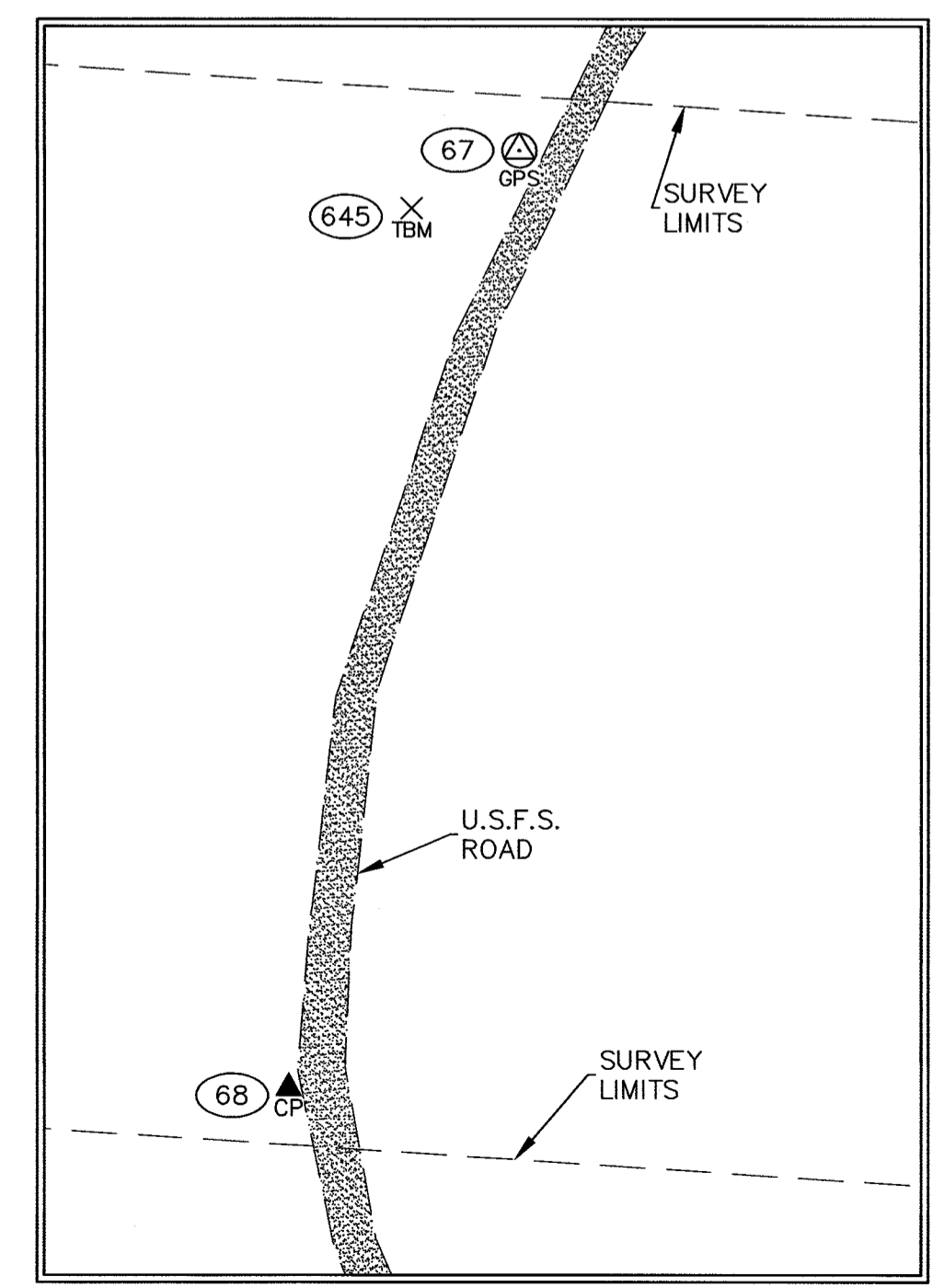
MATCH SHEET 2

MATCH SHEET 4

MATCH SHEET 7



- LEGEND**
- IRON POST WITH BRASS CAP GPS CONTROL STATION
 - SECONDARY GPS CONTROL STATION
 - BENCH MARK RECOVERED
 - TEMPORARY BENCH MARK ESTABLISHED
 - POINT NUMBER
 - MILEPOST
 - ASPHALT HATCHING
 - GRAVEL



Seward Recording District - Plat 2020-1

Seward Recording District
 State Business - No Fee
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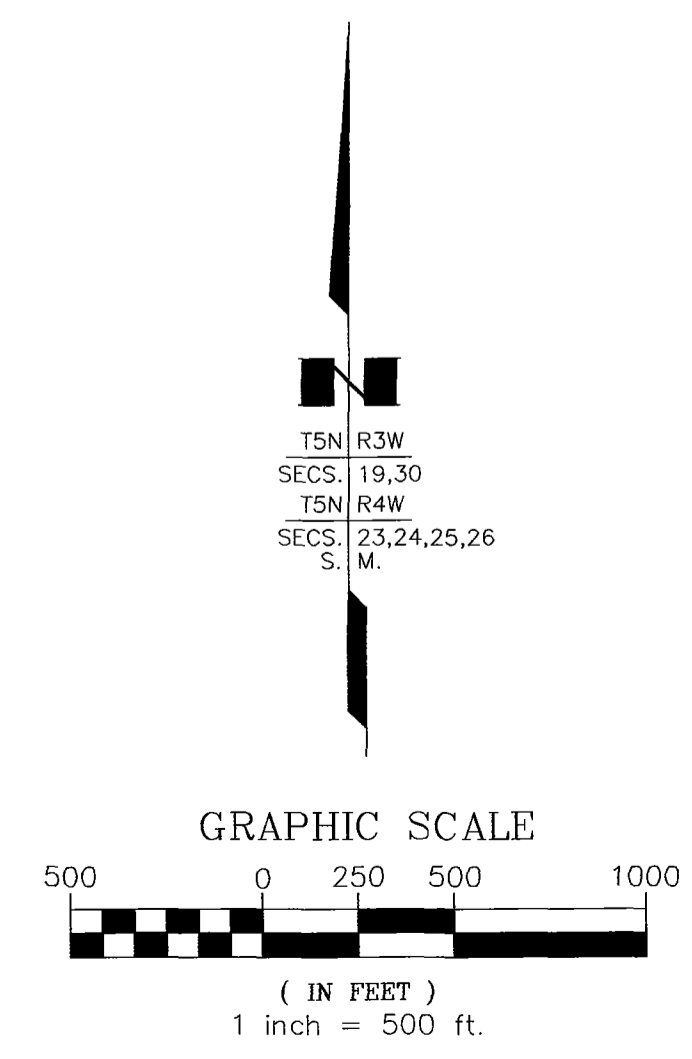
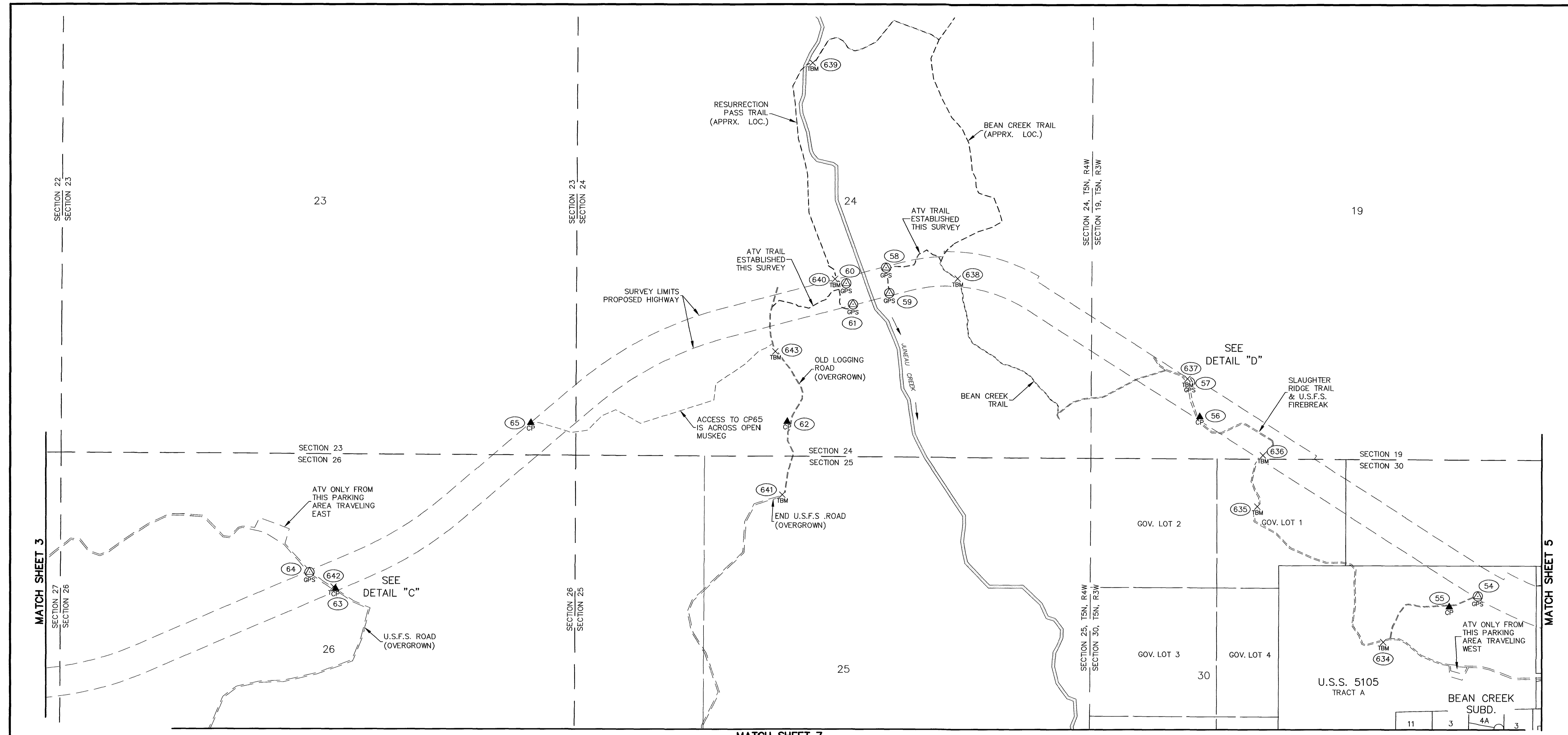
CONSULTANT SURVEYOR

PREPARED BY:
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 ANCHORAGE, AK. 99507
 (907) 522-1707
 CERTIFICATE OF AUTHORIZATION
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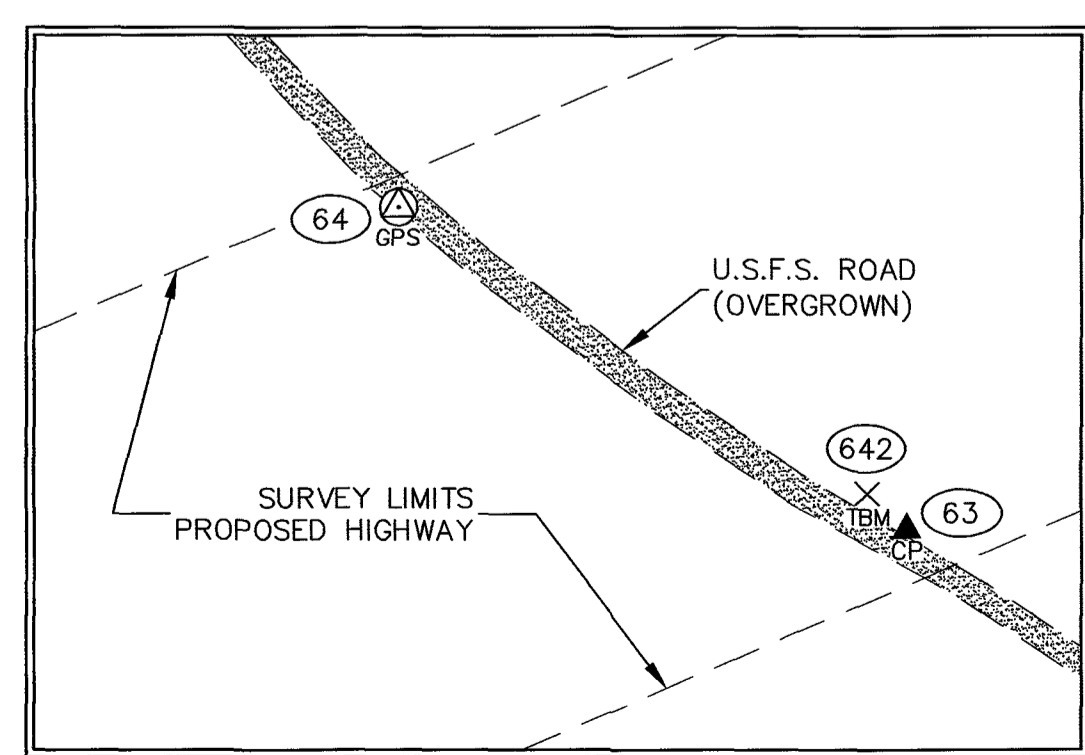
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 &
 PUBLIC FACILITIES
SURVEY CONTROL DIAGRAM
 RECORD OF SURVEY
STERLING HIGHWAY MP 44.5-58
 Federal Project No. 0212015
 State Project No. Z530140000

Located Within
 Section 30, T5N, R2W,
 Sections 19, 25-32 & 36, T5N, R3W,
 Sections 23-36, T5N, R4W,
 Sections 35 & 36, T5N, R5W,
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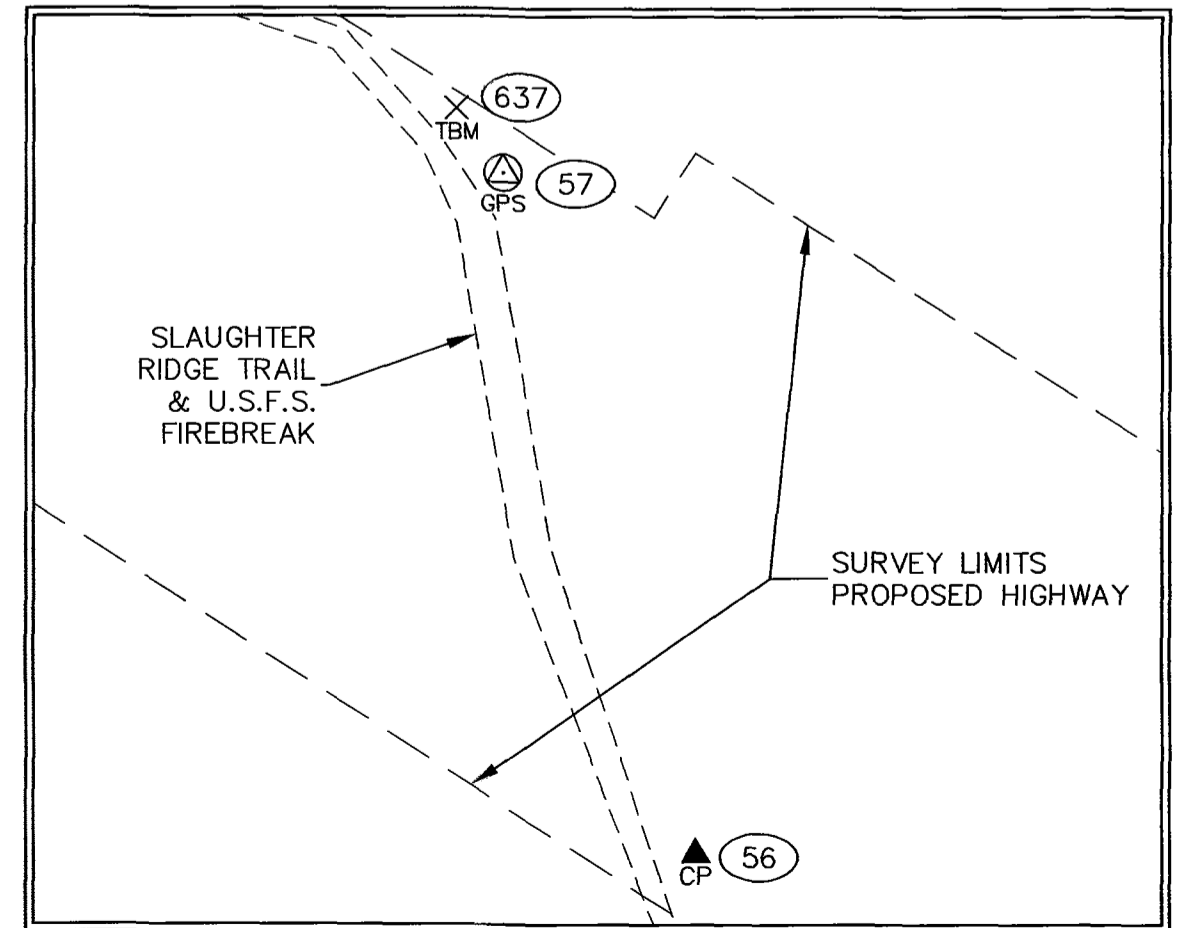
DRAWN	RHB	PROJECT No.	2768.01	SCALE	1" = 500'
CHECKED	WNP	DATE	1/3/2019	SHEET	3 OF 10



- LEGEND**
- IRON POST WITH BRASS CAP GPS CONTROL STATION
 - SECONDARY GPS CONTROL STATION
 - TEMPORARY BENCH MARK ESTABLISHED
 - POINT NUMBER
 - GRAVEL



DETAIL "C"
1" = 100'



DETAIL "D"
1" = 100'
Seward Recording District - 2020-1 (Plat)

CONSULTANT SURVEYOR

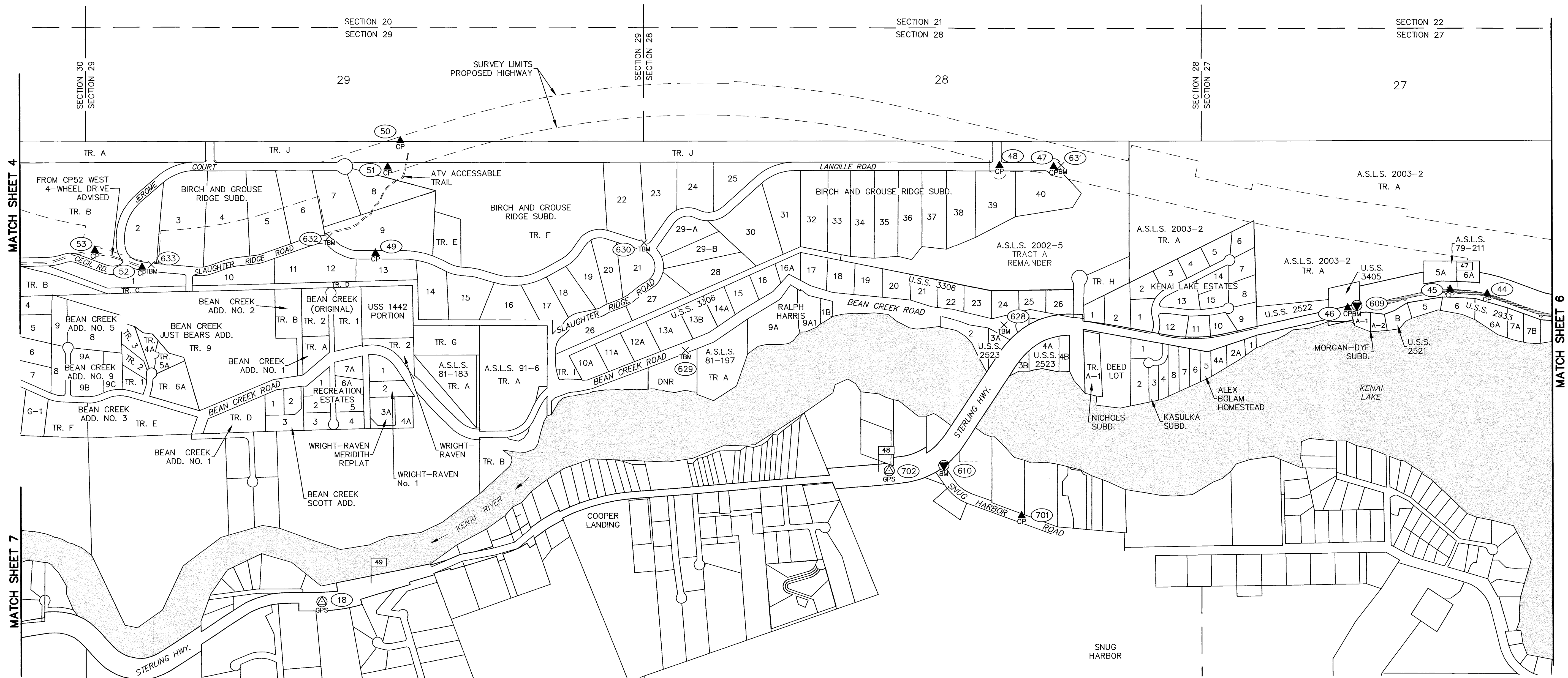
PREPARED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, AK 99507
(907) 522-1707
CERTIFICATE OF AUTHORIZATION
No. AECC111

Seward Recording District
State Business - No Fee
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
SURVEY CONTROL DIAGRAM
RECORD OF SURVEY
STERLING HIGHWAY MP 44.5-58
Federal Project No. 0212015
State Project No. Z530140000

Located Within
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Sections 19, 25-32 & 36, T5N, R3W,
Sections 23-36, T5N, R4W,
Sections 35 & 36, T5N, R5W,
Seward Meridian, Alaska

DRAWN RHB PROJECT No. 2768.01 SCALE 1" = 500'
CHECKED WNP DATE 1/3/2019 SHEET 4 OF 10

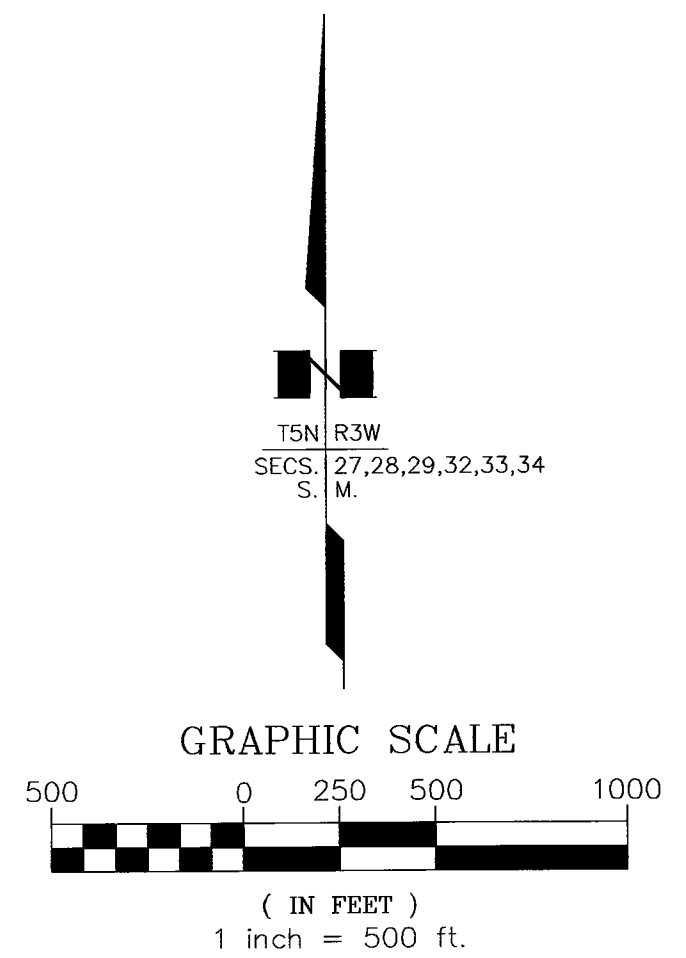


MATCH SHEET 4

MATCH SHEET 7

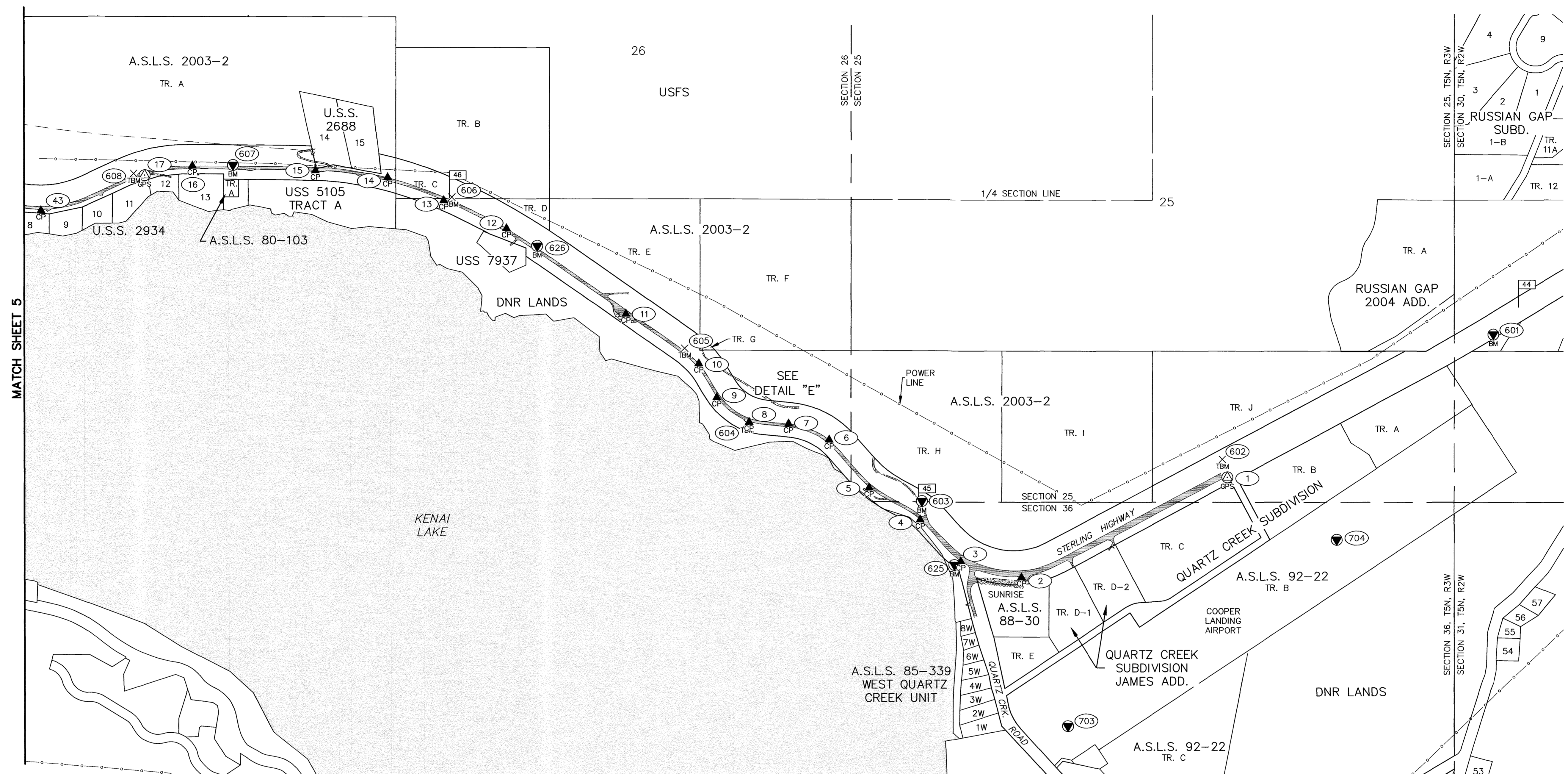
MATCH SHEET 6

- LEGEND**
- IRON POST WITH BRASS CAP GPS CONTROL STATION
 - SECONDARY GPS CONTROL STATION
 - BENCH MARK RECOVERED
 - TEMPORARY BENCH MARK ESTABLISHED
 - POINT NUMBER
 - MILEPOST

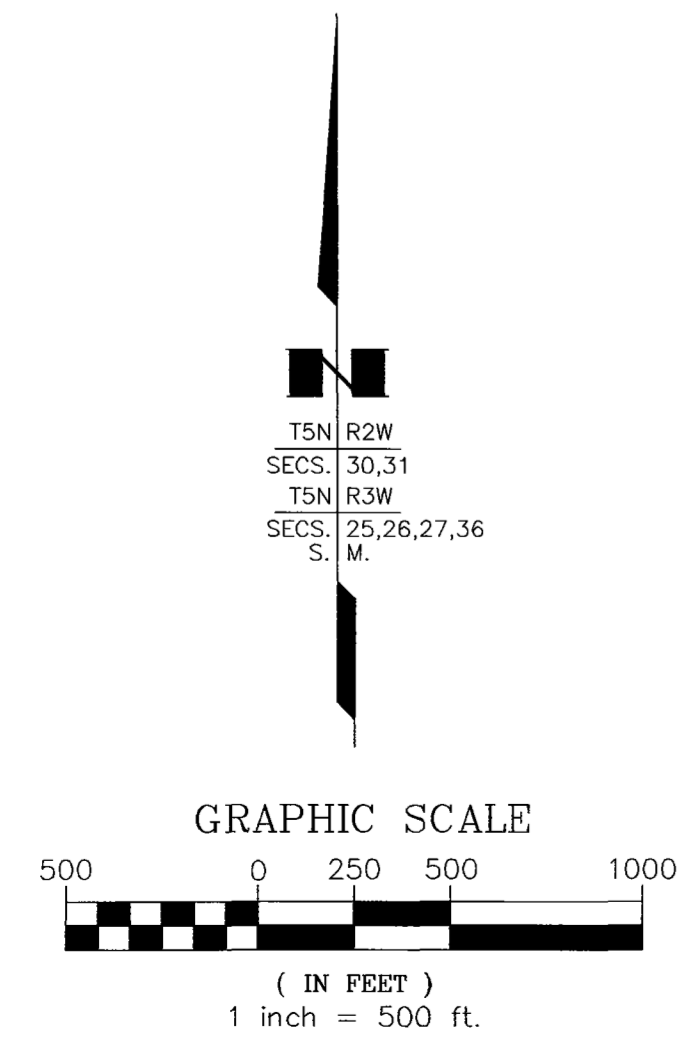


Seward Recording District
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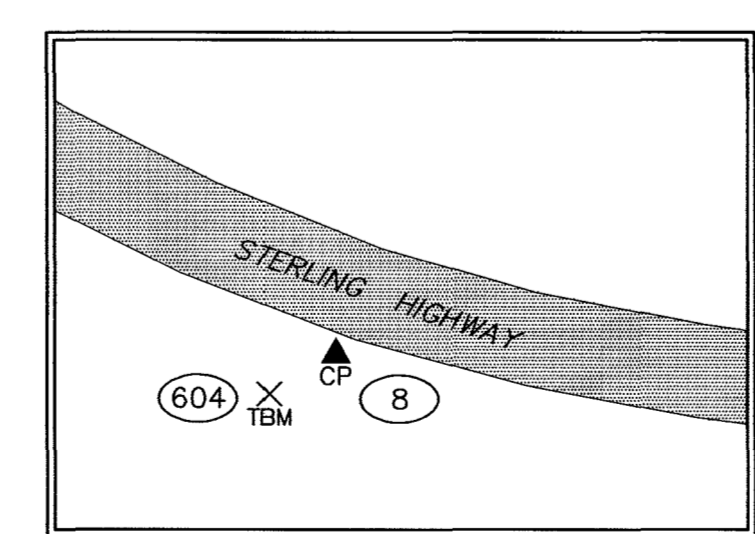
<p>CONSULTANT SURVEYOR</p> <p>PREPARED BY: R&M CONSULTANTS, INC. 9101 VANGUARD DRIVE ANCHORAGE, AK. 99507 (907) 522-1707 CERTIFICATE OF AUTHORIZATION No. AECC111</p>	<p>STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SURVEY CONTROL DIAGRAM RECORD OF SURVEY STERLING HIGHWAY MP 44.5-58 Federal Project No. 0212015 State Project No. Z530140000</p> <p>Located Within Section 30, T5N, R2W, Sections 19, 25-32 & 36, T5N, R3W, Sections 23-36, T5N, R4W, Sections 35 & 36, T5N, R5W, Seward Meridian, Alaska</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <td>DRAWN</td> <td>RHB</td> <td>PROJECT No.</td> <td>2768.01</td> <td>SCALE</td> <td>1" = 500'</td> </tr> <tr> <td>CHECKED</td> <td>WNP</td> <td>DATE</td> <td>1/3/2019</td> <td>SHEET</td> <td>5 OF 10</td> </tr> </table>	DRAWN	RHB	PROJECT No.	2768.01	SCALE	1" = 500'	CHECKED	WNP	DATE	1/3/2019	SHEET	5 OF 10
DRAWN	RHB	PROJECT No.	2768.01	SCALE	1" = 500'								
CHECKED	WNP	DATE	1/3/2019	SHEET	5 OF 10								



MATCH SHEET 5



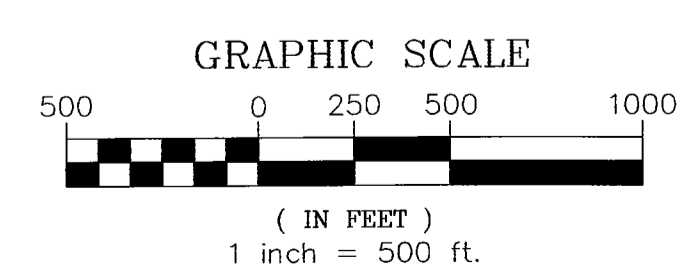
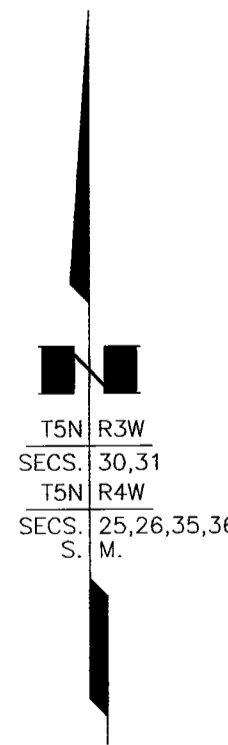
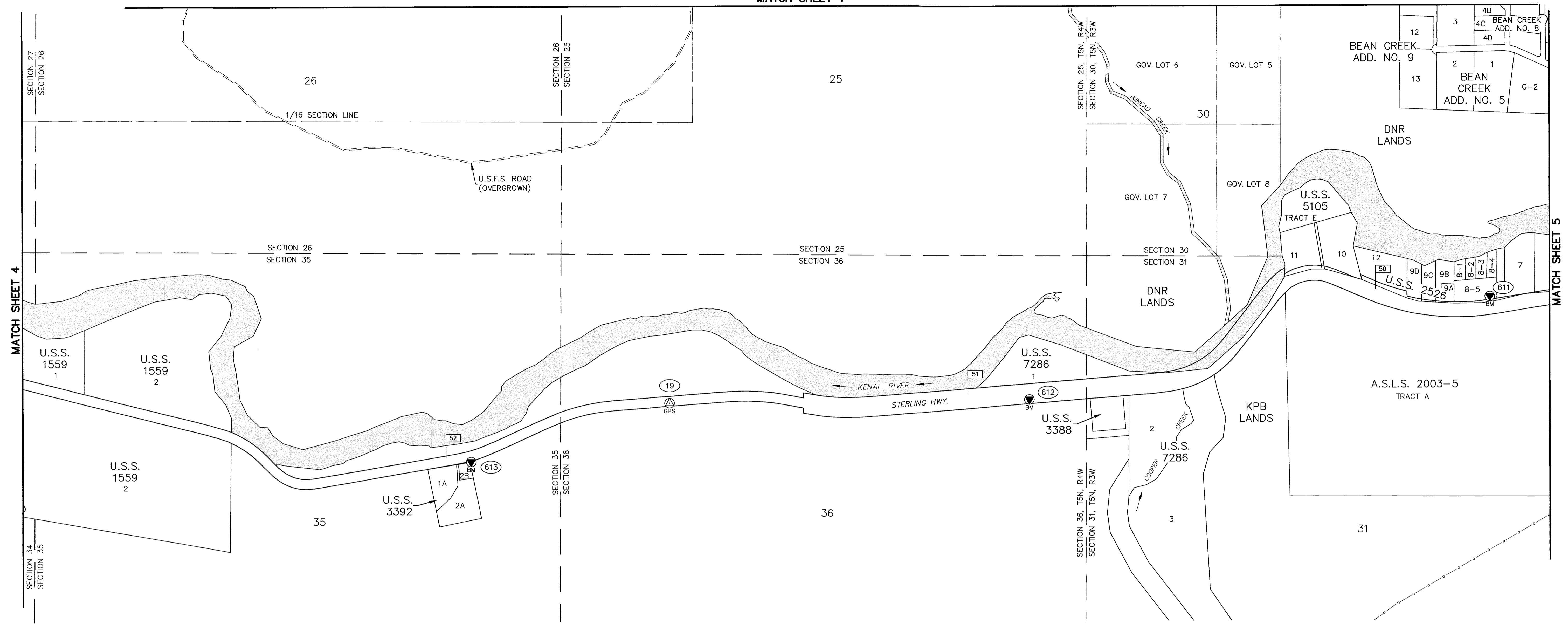
- LEGEND**
- DOT&PF FEDERALLY REPORTED CONTROL STATION
 - IRON POST WITH BRASS CAP GPS CONTROL STATION
 - SECONDARY GPS CONTROL STATION
 - BENCH MARK RECOVERED
 - TEMPORARY BENCH MARK ESTABLISHED
 - POINT NUMBER
 - MILEPOST
 - ASPHALT HATCHING
 - GRAVEL



DETAIL "E"
1" = 50'

Seward Recording District
State Business - No Fee
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<p>DRAWN: RHB CHECKED: WNP</p>	<p>PROJECT No. 2768.01 DATE: 1/3/2019</p>	<p>SCALE: 1" = 500' SHEET: 6 OF 10</p>

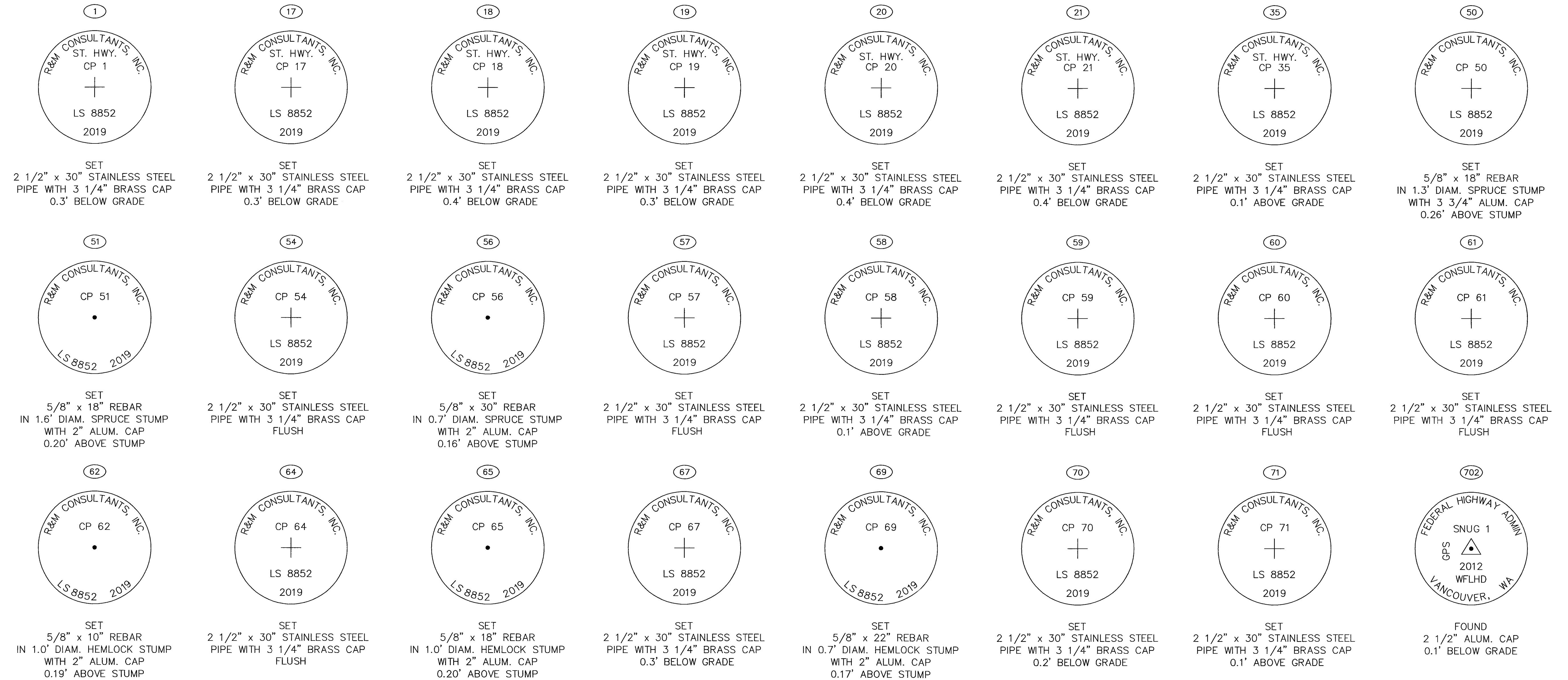


- LEGEND**
- IRON POST WITH BRASS CAP GPS CONTROL STATION
 - SECONDARY GPS CONTROL STATION
 - BENCH MARK RECOVERED
 - TEMPORARY BENCH MARK ESTABLISHED
 - POINT NUMBER
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DRAWN RHB CHECKED WNP	PROJECT No. 2768.01 DATE 1/3/2019	SCALE 1" = 500' SHEET 7 OF 10


PRIMARY HORIZONTAL CONTROL



Seward Recording District
State Business - No Fee
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SEE SHEET 9 FOR COORDINATE TABLES

Seward Recording District - Plat 2020-1

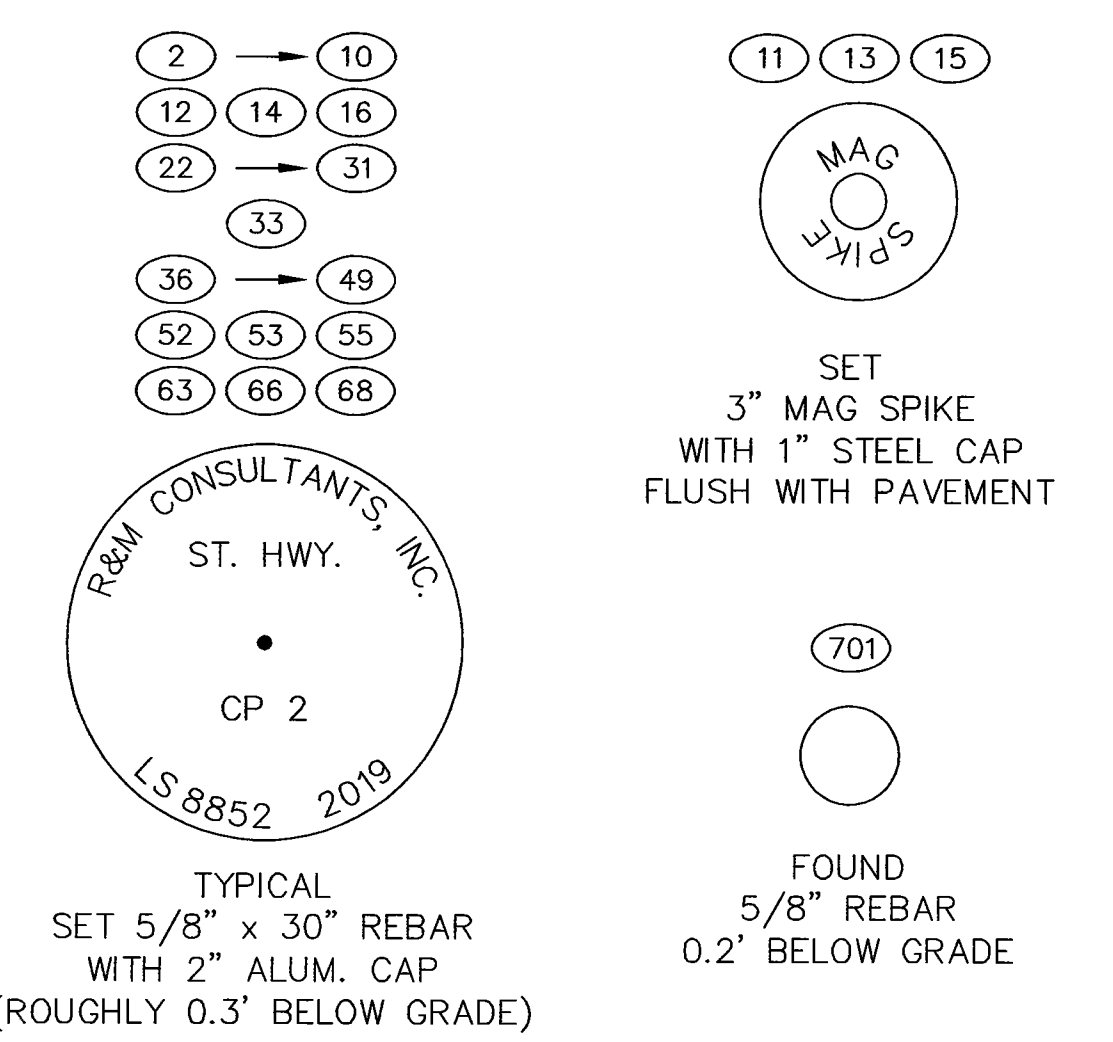
<p style="text-align: center;">CONSULTANT SURVEYOR</p>  <p style="text-align: center;">PREPARED BY: R&M CONSULTANTS, INC. 9101 VANGUARD DRIVE ANCHORAGE, AK. 99507 (907) 522-1707 CERTIFICATE OF AUTHORIZATION No. AECC111</p>	<p>STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SURVEY CONTROL DIAGRAM RECORD OF SURVEY STERLING HIGHWAY MP 44.5-58 Federal Project No. 0212015 State Project No. Z530140000</p> <p style="text-align: center;">Located Within Section 30, T5N, R2W, Sections 19, 25-32 & 36, T5N, R3W, Sections 23-36, T5N, R4W, Sections 35 & 36, T5N, R5W, Seward Meridian, Alaska</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">DRAWN</td> <td style="width: 25%;">RHB</td> <td style="width: 25%;">PROJECT No.</td> <td style="width: 25%;">2768.01</td> <td style="width: 25%;">SCALE</td> <td style="width: 25%;">N/A</td> </tr> <tr> <td>CHECKED</td> <td>WNP</td> <td>DATE</td> <td>1/3/2019</td> <td>SHEET</td> <td>8 OF 10</td> </tr> </table>	DRAWN	RHB	PROJECT No.	2768.01	SCALE	N/A	CHECKED	WNP	DATE	1/3/2019	SHEET	8 OF 10
DRAWN	RHB	PROJECT No.	2768.01	SCALE	N/A								
CHECKED	WNP	DATE	1/3/2019	SHEET	8 OF 10								

PRIMARY HORIZONTAL CONTROL COORDINATES

PRIMARY GPS CONTROL						
POINT	NORTHING	EASTING	NORTH LATITUDE	WEST LONGITUDE	ELEVATION	DESCRIPTOR
1	180079.8766	225080.3846	60° 29' 17.05073"	149° 43' 17.37126"	476.75	Set BC/Pipe[R&M]: CP 1
17	182725.7052	215602.1364	60° 29' 42.87353"	149° 46' 26.69981"	504.47	Set BC/Pipe[R&M]: CP 17
18	179780.6035	202893.0855	60° 29' 13.44089"	149° 50' 40.18033"	484.73	Set BC/Pipe[R&M]: CP 18
19	178488.2125	191202.8581	60° 29' 00.20032"	149° 54' 33.36731"	413.64	Set BC/Pipe[R&M]: CP 19
20	180196.9846	179263.0961	60° 29' 16.38673"	149° 58' 31.83668"	347.28	Set BC/Pipe[R&M]: CP 20
21	180032.9761	168322.5738	60° 29' 14.08022"	150° 02' 10.16841"	328.26	Set BC/Pipe[R&M]: CP 21
35	179225.1198	154679.8171	60° 29' 05.12358"	150° 06' 42.31695"	299.50	Set BC/Pipe[R&M]: CP 35
50	184136.4227	203651.8636	60° 29' 56.36588"	149° 50' 25.37592"	730.44	Set Rbr/AC[R&M]: CP 50
51	183888.2566	203531.0628	60° 29' 53.91732"	149° 50' 27.76837"	717.73	Set Rbr/AC[R&M]: CP 51
54	183830.0531	199388.1259	60° 29' 53.17730"	149° 51' 50.47747"	860.44	Set BC/Pipe[R&M]: CP 54
56	185664.1935	196537.5650	60° 30' 11.11655"	149° 52' 47.55365"	1021.92	Set Rbr/AC[R&M]: CP 56
57	186018.5791	196437.3406	60° 30' 14.60203"	149° 52' 49.58686"	1026.43	Set BC/Pipe[R&M]: CP 57

PRIMARY GPS CONTROL						
POINT	NORTHING	EASTING	NORTH LATITUDE	WEST LONGITUDE	ELEVATION	DESCRIPTOR
58	187185.7695	193318.0873	60° 30' 25.95362"	149° 53' 51.98516"	1090.42	Set BC/Pipe[R&M]: CP 58
59	186925.3572	193353.8467	60° 30' 23.39081"	149° 53' 51.24620"	1087.91	Set BC/Pipe[R&M]: CP 59
60	187023.9439	192911.6577	60° 30' 24.34081"	149° 54' 00.08620"	1087.99	Set BC/Pipe[R&M]: CP 60
61	186808.7319	192980.4652	60° 30' 22.22470"	149° 53' 58.69145"	1091.25	Set BC/Pipe[R&M]: CP 61
62	185606.6557	192305.8363	60° 30' 10.35477"	149° 54' 12.04698"	1182.29	Set Rbr/AC[R&M]: CP 62
64	184066.8046	187411.1215	60° 29' 54.94638"	149° 55' 49.62133"	1130.58	Set BC/Pipe[R&M]: CP 64
65	185594.6899	189681.2671	60° 30' 10.10843"	149° 55' 04.45259"	1161.25	Set Rbr/AC[R&M]: CP 65
67	183266.4330	181065.8290	60° 29' 46.71833"	149° 57' 56.21264"	786.32	Set BC/Pipe[R&M]: CP 67
69	182904.8276	179701.3706	60° 29' 43.07853"	149° 58' 23.40942"	755.60	Set Rbr/AC[R&M]: CP 69
70	179864.3265	174340.3006	60° 29' 12.81198"	150° 00' 10.04538"	333.95	Set BC/Pipe[R&M]: CP 70
71	181520.6972	175553.3248	60° 29' 29.19897"	149° 59' 46.04339"	580.75	Set BC/Pipe[R&M]: CP 71
* 702	181003.8014	208267.6836	60° 29' 25.68481"	149° 48' 52.99865"	455.03	Fd AC/Rod[FHA]: SNUG 1

SECONDARY HORIZONTAL CONTROL

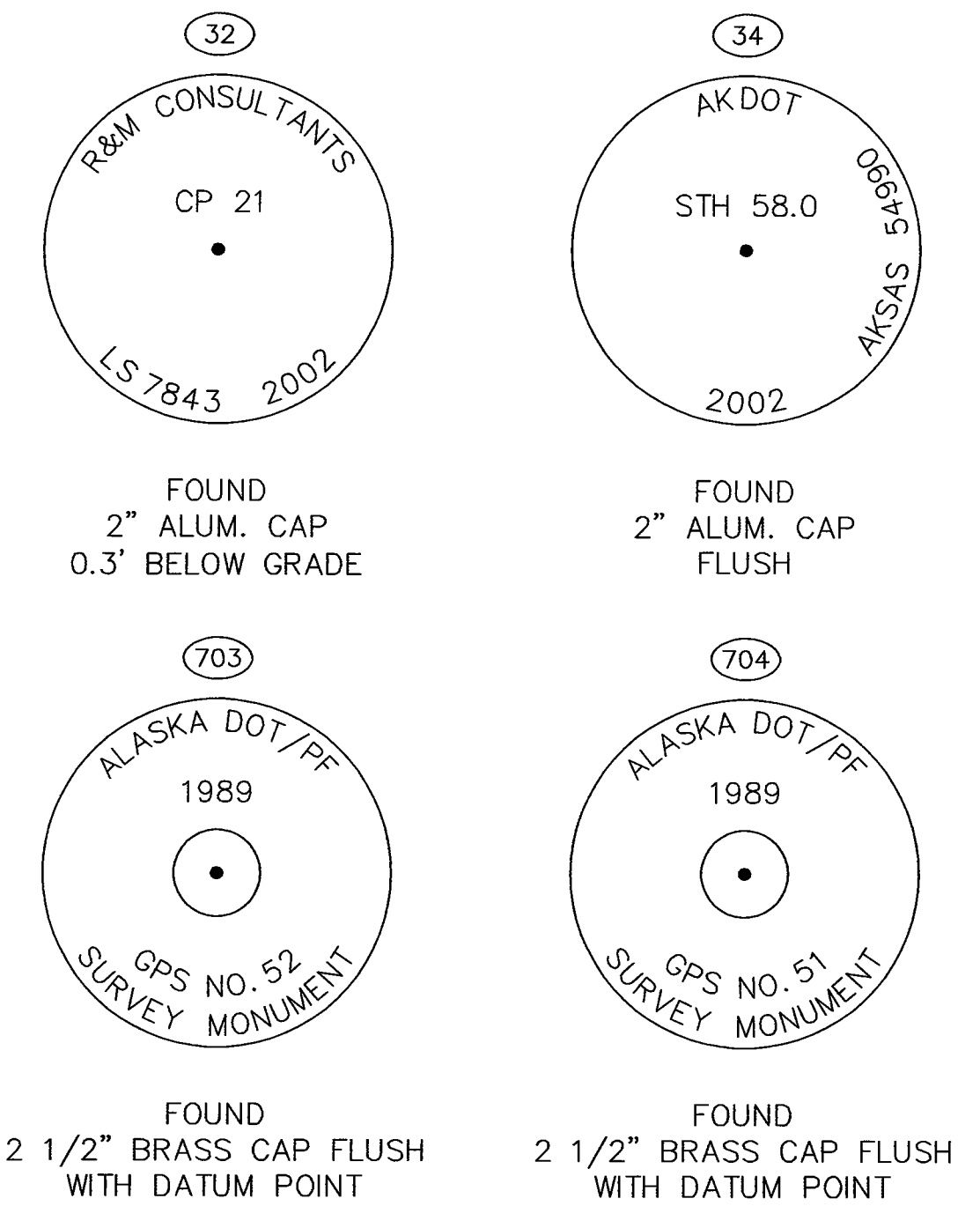


SECONDARY HORIZONTAL CONTROL COORDINATES

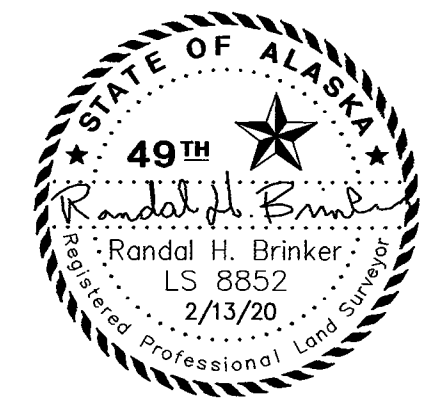
SECONDARY GPS CONTROL				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTOR
2	179211.3109	223275.3193	466.39	Set BC/Pipe[R&M]: CP 2
3	179349.9268	222744.3724	464.17	Set Rbr/AC[R&M]: CP 3
4	179711.7129	222391.1233	458.99	Set Rbr/AC[R&M]: CP 4
5	179991.0062	221942.9507	463.31	Set Rbr/AC[R&M]: CP 5
6	180408.7255	221593.5422	484.62	Set Rbr/AC[R&M]: CP 6
7	180549.2978	221237.9844	505.41	Set Rbr/AC[R&M]: CP 7
8	180563.9000	220895.4624	521.73	Set Rbr/AC[R&M]: CP 8
9	180778.7940	220613.7242	531.55	Set Rbr/AC[R&M]: CP 9
10	181075.4080	220455.1362	537.84	Set Rbr/AC[R&M]: CP 10
11	181509.0680	219816.0138	554.37	Set Survey Spike[R&M]: CP 11
12	182256.2111	218774.0702	600.70	Set Rbr/AC[R&M]: CP 12
13	182501.8273	218222.8601	596.92	Set Survey Spike[R&M]: CP 13
14	182703.2767	217733.1788	576.57	Set Rbr/AC[R&M]: CP 14
15	182762.6455	217100.2761	557.05	Set Survey Spike[R&M]: CP 15
16	182807.2782	216020.1912	517.61	Set Rbr/AC[R&M]: CP 16
22	179876.4132	167454.9278	315.86	Set Rbr/AC[R&M]: CP 22
23	179596.3348	166194.5868	320.38	Set Rbr/AC[R&M]: CP 23
24	179283.4268	164881.4191	312.20	Set Rbr/AC[R&M]: CP 24
25	179195.4437	164150.2059	307.76	Set Rbr/AC[R&M]: CP 25
26	179236.9709	163059.9327	305.62	Set Rbr/AC[R&M]: CP 26
27	179265.6698	162359.3973	307.32	Set Rbr/AC[R&M]: CP 27
28	179266.5917	161291.3367	324.99	Set Rbr/AC[R&M]: CP 28
29	179214.9576	160700.2891	322.02	Set Rbr/AC[R&M]: CP 29
30	179461.2655	159351.7216	302.49	Set Rbr/AC[R&M]: CP 30
31	179090.8510	158124.4167	295.08	Set Rbr/AC[R&M]: CP 31

SECONDARY GPS CONTROL				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTOR
\$ 32	178971.1650	157179.1873	290.08	Fd Rbr/AC[R&M]: CP 21 Sterling 60-79
33	179139.8997	155935.5932	286.54	Set Rbr/AC[R&M]: CP 33
\$ 34	179221.3833	154696.0521	299.16	Fd Rbr/AC[DOT]: STH 58.0 Sterling 60-79
36	180035.9369	174141.2560	332.27	Set Rbr/AC[R&M]: CP 36
37	180052.2778	172941.2647	328.35	Set Rbr/AC[R&M]: CP 37
38	180129.4606	172247.2283	336.35	Set Rbr/AC[R&M]: CP 38
39	180423.8025	171510.5736	340.40	Set Rbr/AC[R&M]: CP 39
40	180357.7056	170972.4082	330.74	Set Rbr/AC[R&M]: CP 40
41	180215.8200	169845.0381	317.80	Set Rbr/AC[R&M]: CP 41
42	180118.0952	169150.4775	319.45	Set Rbr/AC[R&M]: CP 42
43	182417.3216	214695.1219	490.70	Set Rbr/AC[R&M]: CP 43
44	182662.3997	213931.0259	493.07	Set Rbr/AC[R&M]: CP 44
45	182706.8787	213578.0601	485.20	Set Rbr/AC[R&M]: CP 45
46	182532.4457	212609.9325	459.58	Set Rbr/AC[R&M]: CP 46
47	183877.6504	209832.3020	729.97	Set Rbr/AC[R&M]: CP 47
48	183891.0770	209319.9708	714.83	Set Rbr/AC[R&M]: CP 48
49	183075.6504	203414.0630	629.67	Set Rbr/AC[R&M]: CP 49
52	182947.7899	201202.0078	603.80	Set Rbr/AC[R&M]: CP 52
53	183110.6303	200757.9714	670.82	Set BC/Pipe[R&M]: CP 53
55	183719.8126	199096.4131	849.52	Set Rbr/AC[R&M]: CP 55
63	183899.3632	187676.2787	1116.10	Set Rbr/AC[R&M]: CP 63
66	183421.3760	183173.4411	920.05	Set Rbr/AC[R&M]: CP 66
68	183001.3500	181000.5661	777.09	Set Rbr/AC[R&M]: CP 68
* 701	180579.1165	209518.3992		Fd Rbr: CP 12102 Snug Harbor Road
@ 703	177908.6766	223679.9998		Fd BC/Rod[DOT]: GPS 52
@ 704	179531.2648	226036.7518		Fd BC/Rod[DOT]: GPS 51

* Reference: ROS Plat 2014-11, SRD
 \$ Reference: ROS Plat 2013-28, SRD
 @ Reference: ROS Plat 2015-3, SRD
 Control points 1-35 @ 701-704
 Reference: ROS Plat 2019-10, SRD



Seward Recording District
 State Business - No Fee
 This survey does not constitute a subdivision
 as defined by AS 40.15.900

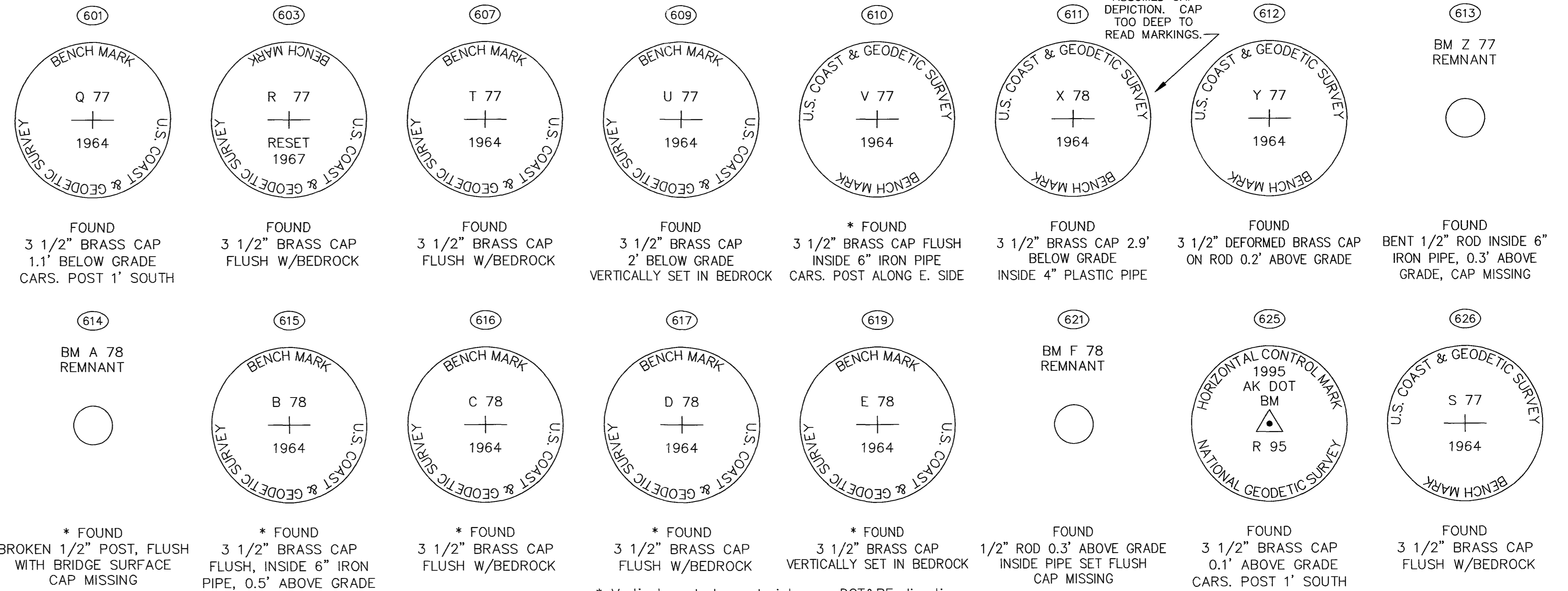
CONSULTANT SURVEYOR  PREPARED BY: R&M CONSULTANTS, INC. 9101 VANGUARD DRIVE ANCHORAGE, AK 99507 (907) 522-1707 CERTIFICATE OF AUTHORIZATION No. AECC111	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SURVEY CONTROL DIAGRAM RECORD OF SURVEY STERLING HIGHWAY MP 44.5-58 Federal Project No. 0212015 State Project No. Z530140000 Located Within Section 30, T5N, R2W, Sections 19, 25-32 & 36, T5N, R3W, Sections 23-36, T5N, R4W, Sections 35 & 36, T5N, R5W, Seward Meridian, Alaska		
	DRAWN RHB CHECKED WNP	PROJECT No. 2768.01 DATE 1/3/2019	SCALE N/A SHEET 9 OF 10

Seward Recording District - Plat 2020-1

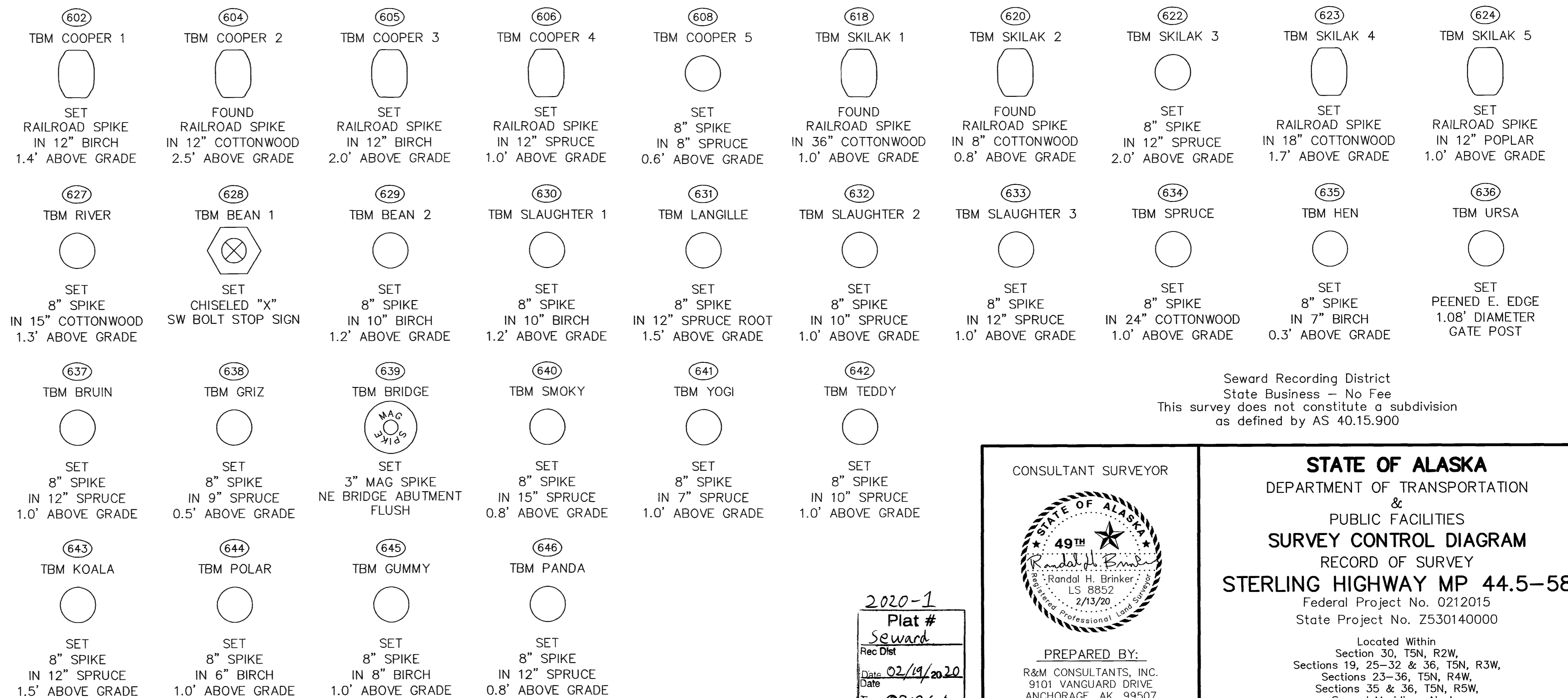
RECOVERED VERTICAL CONTROL BENCHMARKS

VERTICAL CONTROL					
POINT	NORTHING	EASTING	PROJECT NAVD88 ELEVATION	RECORD NAVD88 ELEVATION	DESCRIPTION
50	184136	203652	730.44		Set Rbr/AC[R&M]: CP 50
51	183888	203531	717.73		Set Rbr/AC[R&M]: CP 51
62	185607	192306	1182.29		Set Rbr/AC[R&M]: CP 62
65	185595	189681	1161.25		Set Rbr/AC[R&M]: CP 65
69	182905	179701	755.60		Set Rbr/AC[R&M]: CP 69
601	181322	227410	475.75	476.27	Fd BC[USC&GS]: BM Q 77
602	180237	225037	475.25		Set RR Spike: TBM Cooper 1
603	179874	222406	480.75	481.13	Fd BC[USC&GS]: BM R 77 RESET
604	180554	220878	523.02		Fd RR Spike: TBM Cooper 2
605	181209	220332	541.89		Set RR Spike: TBM Cooper 3
606	182531	218294	604.31		Set RR Spike: TBM Cooper 4
607	182814	216377	534.58	534.82	Fd BC[USC&GS]: BM T 77
608	182740	215507	507.28		Set Spike: TBM Cooper 5
609	182555	212696	462.57	462.81	Fd BC[USC&GS]: BM U 77
* 610	181055	208785	454.14	454.14	Fd BC/Rod[USC&GS]: BM V 77
611	179543	199445	429.45	429.52	Fd BC/Rod[USC&GS]: BM X 77
612	178521	194818	424.85	424.94	Fd BC/Rod[USC&GS]: BM Y 77
613	177904	189210	408.84	409.27	Fd Rod: BM Z 77
* 614	178684	183691	384.54	384.54	Fd Brass Post: BM A 78
* 615	180267	178604	342.71	342.71	Fd BC/Rod[USC&GS]: BM B 78
* 616	180085	173160	332.67	332.67	Fd BC[USC&GS]: BM C 78
* 617	180112	168704	335.80	335.80	Fd BC[USC&GS]: BM D 78
618	179514	166157	320.34		Fd RR Spike: TBM Skilak 1
* 619	179294	164364	313.40	313.40	Fd BC[USC&GS]: BM E 78
620	179235	161632	321.22		Fd RR Spike: TBM Skilak 2
621	179188	160654	318.60	318.61	Fd Rod: BM F 78
622	179121	158304	290.68		Set Spike: TBM Skilak 3
623	179106	156301	289.96		Set RR Spike: TBM Skilak 4
624	179174	154823	296.60		Set RR Spike: TBM Skilak 5
625	179319	222689	455.71		Fd BC/Rod[NGS]: BM R 95
626	182104	219041	592.59	592.86	Fd BC[USC&GS]: BM S 77
627	180326	171047	332.50		Set Spike: TBM River
628	182385	209358	476.49		Set X: TBM Bean 1
629	182146	206341	446.53		Set Spike: TBM Bean 2
630	183166	205954	629.12		Set Spike: TBM Slaughter 1
631	183891	209903	736.94		Set Spike: TBM Langille
632	183236	202976	635.90		Set Spike: TBM Slaughter 2
633	182971	201290	605.78		Set Spike: TBM Slaughter 3
634	183360	198419	772.45		Set Spike: TBM Spruce
635	184744	197129	945.72		Set Spike: TBM Hen
636	185271	197185	997.36		Set Peen: TBM Ursa
637	186052	196413	1025.68		Set Spike: TBM Bruin
638	187079	194052	1135.56		Set Spike: TBM Griz
639	189281	192565	1096.98		Set Spike: TBM Bridge
640	187069	192795	1106.74		Set Spike: TBM Smoky
641	184858	192256	1122.21		Set Spike: TBM Yogi
642	183918	187656	1119.55		Set Spike: TBM Teddy
643	186326	192184	1135.01		Set Spike: TBM Koala
644	183486	183065	921.52		Set Spike: TBM Polar
645	183250	181035	782.61		Set Spike: TBM Gummy
646	181289	182821	583.64		Set Spike: TBM Panda

See 50 - 69 cap markings sheet 8



ESTABLISHED VERTICAL CONTROL TBM'S



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* Vertical control constraints per DOT&PF direction.
Record elevations per NGS PID sheets.
Some TBM positions are autonomous GPS locations (± 20').

2020-1
Plat #
Seward
Rec Dist
Date 02/19/2020
Date
Time 09:26 AM

CONSULTANT SURVEYOR

PREPARED BY:
R&M CONSULTANTS, INC.
9101 VANGUARD DRIVE
ANCHORAGE, AK. 99507
(907) 522-1707

CERTIFICATE OF AUTHORIZATION
No. AEC111

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
SURVEY CONTROL DIAGRAM
RECORD OF SURVEY
STERLING HIGHWAY MP 44.5-58
Federal Project No. 0212015
State Project No. Z530140000

Located Within
Section 30, T5N, R2W,
Sections 19, 25-32 & 36, T5N, R3W,
Sections 23-36, T5N, R4W,
Sections 35 & 36, T5N, R5W,
Seward Meridian, Alaska

DRAWN RHB
CHECKED WNP

PROJECT No. 2768.01
DATE 1/3/2019

SCALE N/A
SHEET 10 OF 10