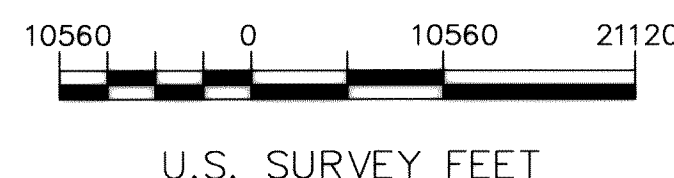
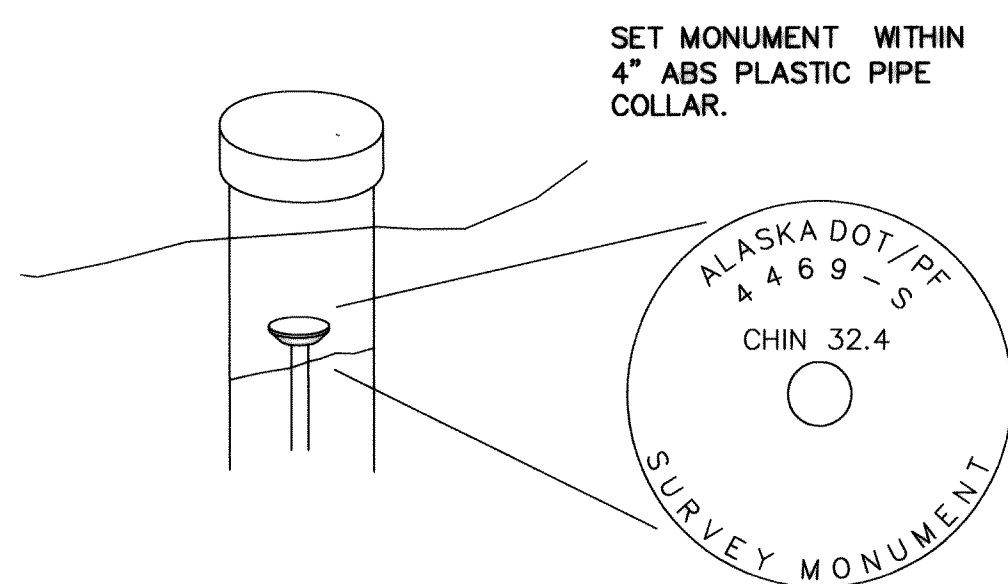


REVISION DATE March 4, 2005

SET 5/8" X 2' STAINLESS
STEEL DRIVE ROD 1.3' IN
DRILL HOLE WITH 2" SLIP
CAP. MARKED WITH A
CARSONITE POST NEAR
MILE POST 15.4

LEGEND	
	GPS CONTROL STATION
	SURVEY POINT NUMBER

TYPICAL MONUMENT SET THIS SURVEY



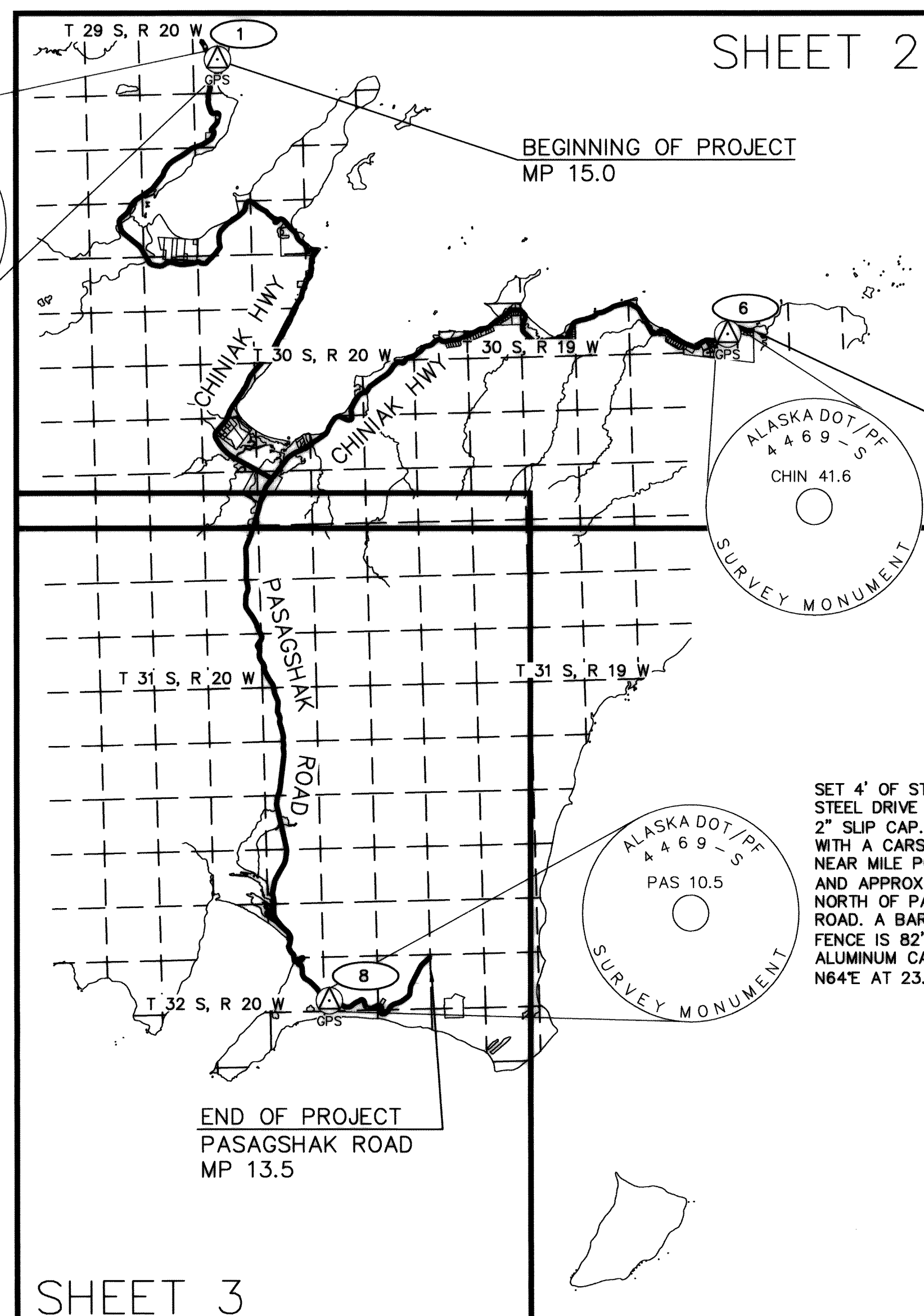
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

EXHIBIT
A 1/3

CHINIAK HIGHWAY AND PASAGSHAK ROAD REHABILITATION ROW SURVEYS

PROJECT NO. 56551

CHINIAK HIGHWAY MP 15.0 TO MP 42.0
PASAGSHAK HIGHWAY MP 0.0 TO MP 14.0



END OF PROJECT
CHINIAK ROAD
MP 42.0

SET 3/4" ALUMINUM ROD
WITH A 2" SLIP CAP.
CARSONITE POST BEARS
EAST 0.6'. NEAR MILE
POST 41.6. CHINIAK ROAD
SHOULDER LIES 28'
SOUTH, AND IS 103'
EASTERLY OF THE END
OF A GUARD RAIL. A
HOUSE WITH ADDRESS
NUMBERS 43332 LIES
SOUTHEASTERLY.

SET 4' OF STAINLESS
STEEL DRIVE ROD WITH
2" SLIP CAP. MARKED
WITH A CARSONITE POST
NEAR MILE POST 10.5.
AND APPROX. 325'
NORTH OF PASAGSHAK
ROAD. A BARBED WIRE
FENCE IS 82' EAST. AN
ALUMINUM CAP BEARS
N64E AT 23.2'

NOTES:

1. THE ORIGINAL SURVEY FOR THIS PROJECT WAS DONE IN STATE PLANE COORDINATE SYSTEM, ZONE 5, U.S. SURVEY FEET, NAD 83 (2002). A LOCAL GRID WAS ADOPTED BY TAKING THE STATE PLANE COORDINATE IN FEET AND TRANSLATING THE NORTHING BY - 1,238,937.1390, THE EASTING BY -1,901,866.2400. THE SCALE FACTOR WAS NEARLY ONE AND NO SCALE FACTOR IS USED BETWEEN THE TWO SYSTEMS. THE RESULTING LOCAL SYSTEM IS ON STATE PLANE BEARINGS WITH GROUND DISTANCES. THE POINT SELECTED FOR TRANSLATION BETWEEN THE TWO SYSTEMS IS CHIN 32.4.

2. THE GEOGRAPHIC POSITIONS OF THE MAIN THREE CONTROL POINTS, CHIN 15.4, CHIN 41.6, PAS 10.5A WERE DETERMINED BY 5 HOUR MINIMUM SESSIONS REPEATED ON TWO OR MORE ADDITIONAL DAYS, AND PROCESSED BY NGS OPUS. THOSE THREE POINTS WERE HELD AND THE NETWORK WAS DENSIFIED WITH STATIC OBSERVATIONS AND PROCESSED IN GEOGENIUS 2000 SOFTWARE, WITH DATA GATHERED USING JAVAD (NOW TOPCON) DUAL FREQUENCY PLUS GLONASS LEGACY AND LEGACY E RECEIVERS.

3. THE EXISTING ROAD LOCATION SURVEY WAS PERFORMED BY POST PROCESSED KINEMATIC METHODS AND TRADITIONAL TOTAL STATIONS.

4. THE POINT NAMING CONVENTION USES THE ROAD NAME (CHIN FOR CHINIAK, PAS FOR PASAGSHAK) AND THE APPROXIMATE MILEPOST.

5. ELEVATION DATUM IS A "PSEUDO" NAVD 88 AS DETERMINED BY GPS OBSERVATIONS USING GEOID 99, AND WERE BASED ON SOLUTIONS PROCESSED BY THE NGS OPUS UTILITY.

KODIAK RECORDING DISTRICT
STATE BUSINESS - NO FEE
THIS SURVEY DOES NOT CONSTITUTE A SUBDIVISION
AS DEFINED BY AS 40.15.900

Date	Revision	Initials
3/04/05	Revised to enhance background features	RMK
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SURVEY CONTROL DIAGRAM RECORD OF SURVEY PROJECT NO. 56551 CHINIAK HIGHWAY AND PASAGSHAK ROAD REHABILITATION ROW SURVEY		
LOCATED IN SEC. 3, 9, 10, 16, 17, 20, 21, 22, 23, 24, 25, 26, 35, T29S, R20W; SEC. 2, 3, 10, 11, 12, 14, 15, 22, 27, 34, 35, T30S, R20W; SEC. 2, 11, 14, 23, 26, 35, 36, T31S, R20W; SEC. 31, T32S, R20W; SEC. 6, T32S, R19W; SEC. 6, T30W, R19W; SEC. 31, 32, 33, 34, 35, 36, T29S, R19W; SEC. 6, T29S, R18W, S.M. ALASKA		
DRAWN	GDS	DATE 8-12-04
CHECKED	DATE	SCALE 1"=10560' SHEET 1 OF 3

POINT NO.	LATITUDE	LONGITUDE	NORTHING	EASTING	ELLIPS. HT.	ELEV.	DESCRIPTION (ALL MONUMENTS ARE SET THIS SURVEY)
1	N 57°41'37.00390"	W 152°28'32.16740"	113500.1210	36768.2560	206.3086	162.904	CHIN 15.4 (BRASS CAP ON DRIVE ROD LOCATED APPROX. 100' NORTHERLY OF PP #615)
2	N 57°38'58.75041"	W 152°31'33.25303"	97223.9390	27277.9000	53.3004	8.935	CHIN 19.7 (BRASS CAP ON 6" SS ROD IN A 2' TALL BOULDER 8' FROM ROAD SHOULDER AND 30' SOUTHERLY FROM END OF GUARD RAIL)
6	N 57°37'01.32360"	W 152°13'27.52600"	86724.5210	86654.3260	178.7300	134.667	CHIN 41.6 (ALUMINUM CAP ON DRIVE ROD LOCATED APPROX. 28' NORTH OF THE NORTH ROAD SHOULDER AND 103' WEST OF GUARD RAIL END)
9	N 57°36'54.13423"	W 152°14'15.43619"	85927.0020	84064.6700	76.8732	32.763	CHIN 41.0 (5/8" REBAR LOCATED APPROX. 99' EAST OF ROAD CURVE SIGN AND 26.5' NORTH OF NORTHERLY ROAD SHOULDER AND 74.5' FROM MP 41 SIGN)
10	N 57°37'12.51218"	W 152°15'51.80655"	87656.4470	78769.4740	62.6213	18.577	CHIN 39.6 (5/8" REBAR LOCATED APPROX. 3.5' EAST OF ROAD SHOULDER AND 80' SOUTH OF "REDUCE SPEED" SIGN)
11	N 57°37'29.79575"	W 152°19'39.29597"	89099.0150	66340.7790	56.9126	12.869	CHIN 36.3 (5/8" REBAR LOCATED APPROX. 29' SOUTHEASTERLY OF WINERY SIGN AND 76' NORTHWESTERLY OF CENTERLINE INTERSECTION OF WINERY ROAD AND CHINIAK ROAD)
12	N 57°37'03.01475"	W 152°22'03.71426"	86190.0260	58544.4070	97.3292	53.074	CHIN 34.7 (5/8" REBAR LOCATED APPROX. 500' NW OF CHINIAK POST OFFICE AND 8' NORTH OF GUARDRAIL)
14	N 57°38'58.72194"	W 152°26'35.04898"	97583.6420	43500.8790	53.2545	9.308	CHIN 24.1 (BRASS CAP ON DRIVE ROD LYING APPROX. 15' EAST OF ROAD SHOULDER AND 15' NORTHERLY OF NORTHERLY CENTERLINE OF NORTHERN MOST DRIVEWAY)
15	N 57°37'23.74507"	W 152°16'01.84960"	88782.2360	78193.5730	62.4736	18.486	CHIN 39.4 (5/8" REBAR LOCATED 14' EAST OF EASTERLY EDGE OF TRAIL TO BEACH AND 18' NORTH OF NORTHERLY ROAD SHOULDER AND 134' WESTERLY OF ROAD CURVE SIGN)
16	N 57°37'33.66890"	W 152°16'26.97069"	89754.3100	76800.3800	74.2223	30.278	CHIN 39.2 (5/8" REBAR LOCATED AT THE NW CORNER OF TURN OFF APPROX. 12' NORTH OF NORTHERLY ROAD SHOULDER AND 4' WESTERLY OF TURN OFF DRIVEWAY SHOULDER)
17	N 57°37'29.11356"	W 152°19'57.97451"	89004.7600	65325.6720	56.8011	12.745	CHIN 36.1 (5/8" REBAR LOCATED APPROX. 51.5' EASTERLY OF PP #C8901 AND 20' NORTHWESTERLY OF A CULVERT AND LYING 8' NW OF TRAVELED WAY)
18	N 57°37'12.81532"	W 152°20'48.76756"	87283.3110	62600.9230	66.1482	21.976	CHIN 35.5 (5/8" REBAR LOCATED ON NORTH SIDE OF GUARD RAIL & 4' FROM TOP OF CLIFF ALSO LYING 32.1' FROM WEST PK IN GUARDRAIL POST AND 32.9' FROM PK IN SOUTH GUARD RAIL POST)
19	N 57°36'04.04303"	W 152°24'43.21156"	80000.0000	50000.0000	180.2982	135.667	CHIN 32.4 (BRASS CAP ON DRIVE ROD LOCATED APPROX. 100' WEST OF ROAD CENTERLINE AND 75' NORTH OF NORTH END OF GUARD RAIL)
20	N 57°39'02.24399"	W 152°26'53.53876"	97917.9710	42486.8260	160.0259	116.072	CHIN 23.7 (ALUMINUM CAP ON DRIVE ROD AT THE TOP OF THE ROCKY BERM ON EASTERLY SIDE OF THE ROAD)
21	N 57°38'52.75759"	W 152°26'25.21628"	96990.7240	44049.7150	55.1213	11.161	CHIN 24.2 (BRASS CAP ON DRIVE ROD NEAR EASTERLY ROAD SHOULDER IN A 4'X4'X2' BOULDER)
23	N 57°38'00.82345"	W 152°26'01.57176"	91750.5610	45457.7870	163.2805	119.111	CHIN 25.5 (BRASS CAP AT THE CREST OF THE HILL ON THE EASTERLY SIDE OF THE ROAD OPPOSITE DRIVEWAY TO THE WEST)
24	N 57°38'57.73698"	W 152°28'23.11764"	97350.0040	37624.0030	78.4086	34.325	CHIN 22.6 (5/8" REBAR LOCATED ON NORTHERLY ROAD SHOULDER OF CHINIAK ROAD)
25	N 57°39'05.07431"	W 152°28'01.96686"	98120.4970	38757.8230	67.7262	23.702	CHIN 22.9 (5/8" REBAR LOCATED ON SOUTHERLY ROAD SHOULDER APPROX. 55' SOUTH OF 25' TALL SPRUCE TREE)
26	N 57°38'27.88364"	W 152°30'48.20154"	94145.3110	29797.4770	54.8194	10.404	CHIN 20.5 (BRASS CAP ON SS DRIVE ROD IN 3'X3' BOULDER 20' WEST OF AMERICAN RIVER BRIDGE ON NORTH END)
27	N 57°36'20.25357"	W 152°27'56.30241"	81402.8510	39444.3320	350.4225	305.666	CHIN 28.1 (BRASS CAP ON SS DRIVE ROD IN BOULDER LOCATED 101' NORTHEASTERLY OF THE GUARD RAIL ON EAST EDGE OF VEHICLE PULL OFF AREA)
28	N 57°35'12.71860"	W 152°28'15.09598"	74526.8860	38575.1400	57.4605	12.439	CHIN 29.8 (BRASS CAP ON SS DRIVE ROD LOCATED ON NORTHWEST BRIDGE ABUTMENT OF OLDS RIVER ON SW SIDE)
29	N 57°37'00.93645"	W 152°15'06.97929"	86544.5730	81240.3040	65.5117	21.422	CHIN 40.3 (5/8" REBAR ON EASTERLY SIDE OF ROAD AND LYING 52' SOUTHEASTERLY OF SPEED LIMIT SIGN AND 3.5' NORTH OF ROAD DITCH)
30	N 57°37'03.31631"	W 152°15'40.93814"	86738.5260	79385.1090	64.5471	20.457	CHIN 40.0 (5/8" REBAR LOCATED 6' NORTH OF ROAD SHOULDER AND 39.4' FROM MP 40 SIGN WHICH IS AT THE WEST END OF GUARD RAIL)
31	N 57°37'16.19798"	W 152°18'03.28818"	87849.1840	71601.7310	184.6322	140.557	CHIN 38.1 (3/4" DRIVE ROD LOCATED 18.4' NORTH OF GUARD RAIL AND 63' NORTH OF PHONE PEDESTAL 7-37)
32	N 57°37'27.61839"	W 152°19'33.69134"	88885.6080	66651.3330	59.9900	15.940	CHIN 36.4 (ALUMINUM CAP ON DRIVE ROD LOCATED APPROX. 75' FROM BEACH VEGETATION LINE AND 275' EAST OF DRIVEWAY TO KODIAK ISLAND WINERY, IN 100' CLEARED AREA)

RECOVERED CONTROL TIES TO MP 15.8 PROJECT							
POINT NUMBER	LATITUDE	LONGITUDE	NORTHING	EASTING	ELLIPS. HEIGHT	ELEVATION	DESCRIPTION
1623	N 57°40'40.89561"	W 152°28'34.27550"	107804.0900	36781.7100	49.604	119.092	FOUND REBAR
1625	N 57°41'49.39043"	W 152°28'53.38146"	114731.1410	35587.4030	74.810	202.054	FOUND REBAR

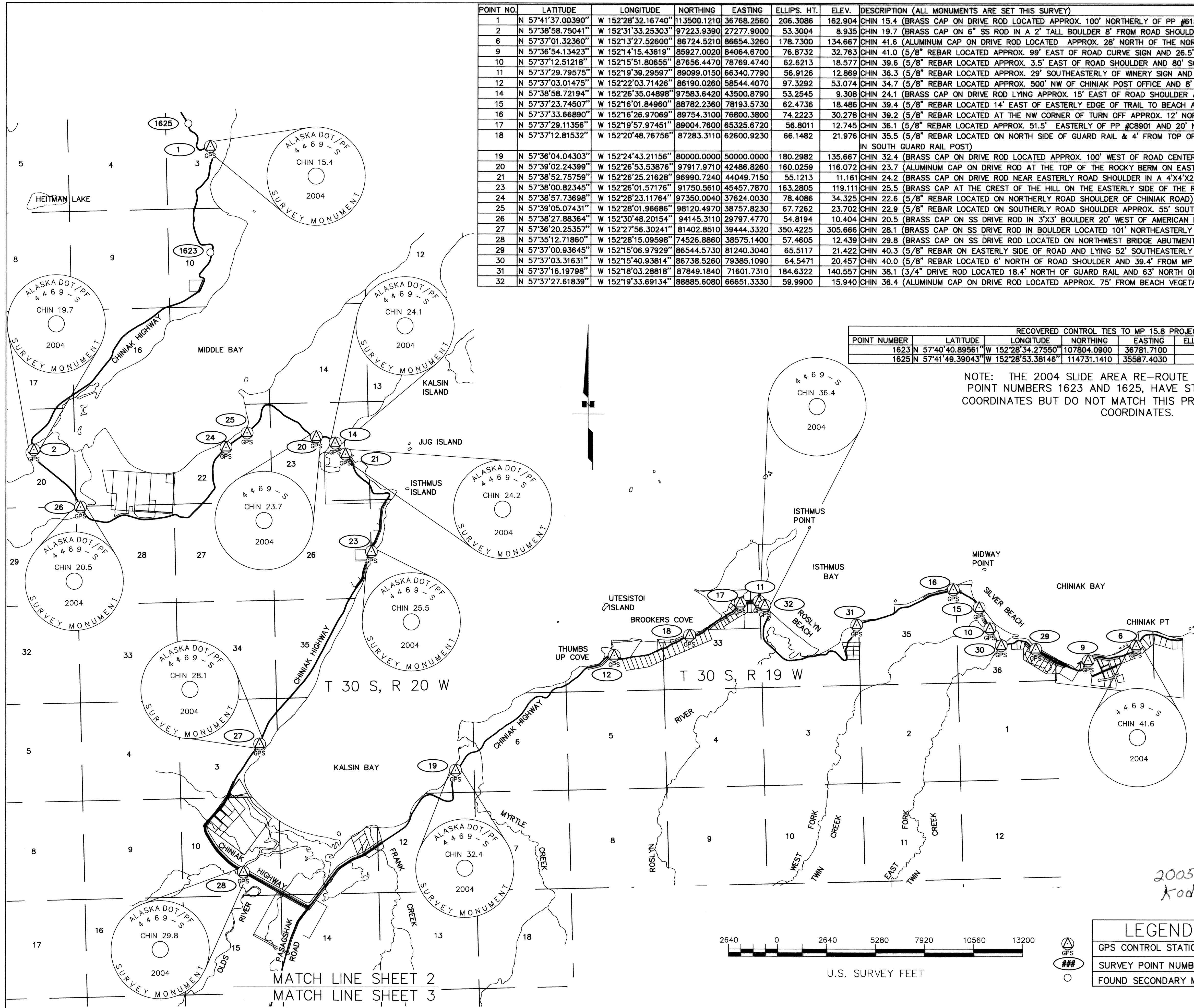
NOTE: THE 2004 SLIDE AREA RE-ROUTE PROJECT AT MP 15.8, POINT NUMBERS 1623 AND 1625, HAVE STATE PLANE PROJECT COORDINATES BUT DO NOT MATCH THIS PROJECT'S STATE PLANE COORDINATES.

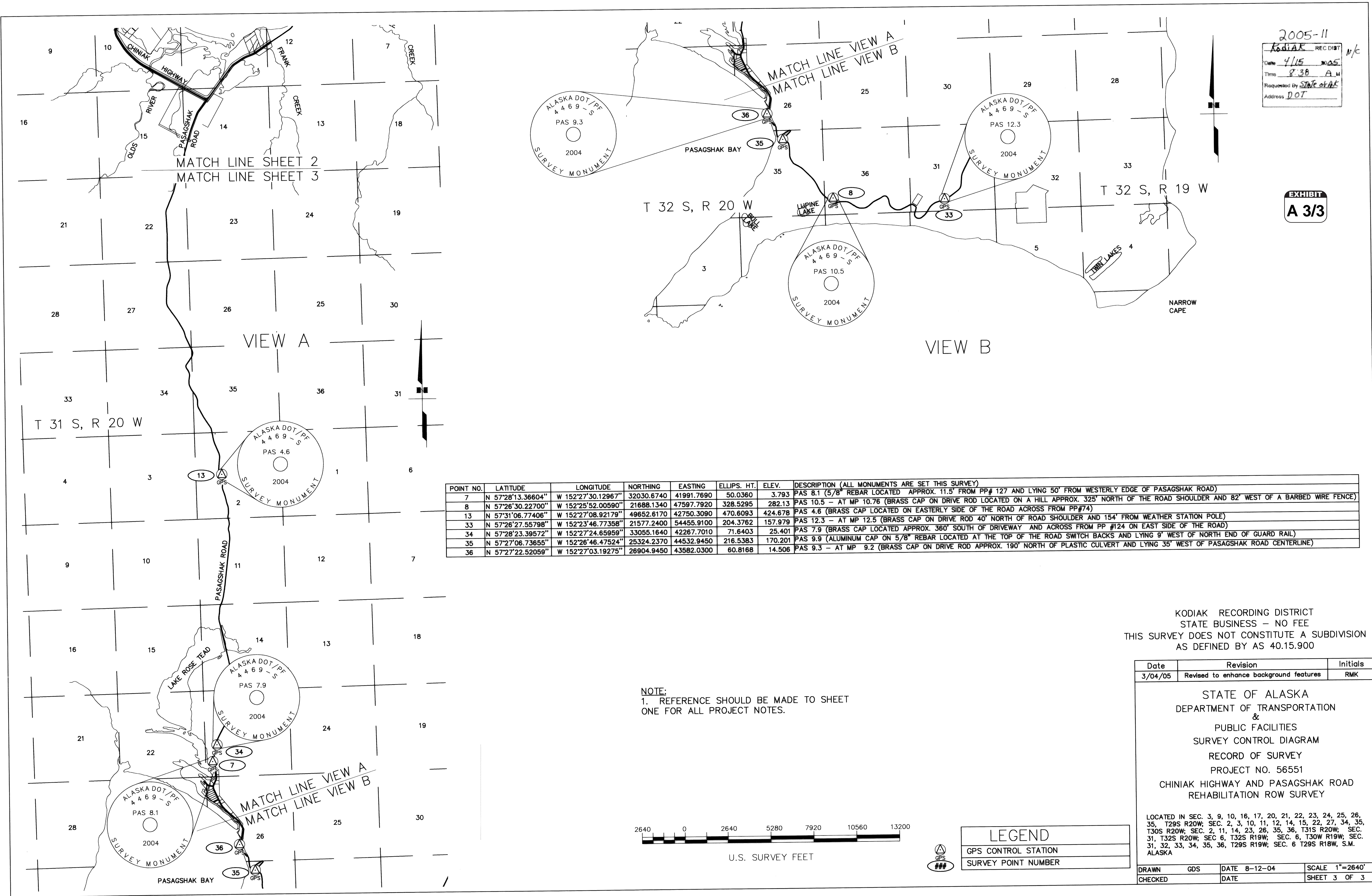
EXHIBIT
A 2/3

NOTE:
1. REFERENCE SHOULD BE MADE TO SHEET ONE FOR ALL PROJECT NOTES.

KODIAK RECORDING DISTRICT
STATE BUSINESS - NO FEE
THIS SURVEY DOES NOT CONSTITUTE A SUBDIVISION
AS DEFINED BY AS 40.15.900

Date	Revision	Initials
3/04/05	Revised to enhance background features	RMK
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SURVEY CONTROL DIAGRAM RECORD OF SURVEY PROJECT NO. 56551 CHINIAK HIGHWAY AND PASAGSHAK ROAD REHABILITATION ROW SURVEY		
LOCATED IN SEC. 3, 9, 10, 16, 17, 20, 21, 22, 23, 24, 25, 26, 35, T29S R20W; SEC. 2, 3, 10, 11, 12, 14, 15, 22, 27, 34, 35, T30S R20W; SEC. 2, 11, 14, 23, 26, 35, 36, T31S R20W; SEC. 31, T32S R20W; SEC. 6, T32S R19W; SEC. 6, T30W R19W; SEC. 31, 32, 33, 34, 35, 36, T29S R19W; SEC. 6 T29S R18W, S.M. ALASKA		
DRAWN	GDS	DATE 8-12-04
CHECKED		DATE
SCALE 1"=2640'		SHEET 2 OF 3





2005-11
Kodiak RECORD DIST
Date 4/15/05
Time 8:38 AM
Requested by State of AK
Address DOT

EXHIBIT
A 3/3

POINT NO.	LATITUDE	LONGITUDE	NORTHING	EASTING	ELLIPS. HT.	ELEV.	DESCRIPTION (ALL MONUMENTS ARE SET THIS SURVEY)
7	N 57°28'13.36604"	W 152°27'30.12967"	32030.6740	41991.7690	50.0360	3.793	PAS 8.1 (5/8" REBAR LOCATED APPROX. 11.5' FROM PP# 127 AND LYING 50' FROM WESTERLY EDGE OF PASAGSHAK ROAD)
8	N 57°26'30.22700"	W 152°25'52.00590"	21688.1340	47597.7920	328.5295	282.13	PAS 10.5 - AT MP 10.76 (BRASS CAP ON DRIVE ROD LOCATED ON A HILL APPROX. 325' NORTH OF THE ROAD SHOULDER AND 82' WEST OF A BARBED WIRE FENCE)
13	N 57°31'06.77406"	W 152°27'08.92179"	49652.6170	42750.3090	470.6093	424.678	PAS 4.6 (BRASS CAP LOCATED ON EASTERLY SIDE OF THE ROAD ACROSS FROM PP#74)
33	N 57°26'27.55798"	W 152°23'46.77358"	21577.2400	54455.9100	204.3762	157.979	PAS 12.3 - AT MP 12.5 (BRASS CAP ON DRIVE ROD 40' NORTH OF ROAD SHOULDER AND 154' FROM WEATHER STATION POLE)
34	N 57°28'23.39572"	W 152°27'24.65959"	33055.1640	42267.7010	71.6403	25.401	PAS 7.9 (BRASS CAP LOCATED APPROX. 360' SOUTH OF DRIVEWAY AND ACROSS FROM PP #124 ON EAST SIDE OF THE ROAD)
35	N 57°27'06.73655"	W 152°26'46.47524"	25324.2370	44532.9450	216.5383	170.201	PAS 9.9 (ALUMINUM CAP ON 5/8" REBAR LOCATED AT THE TOP OF THE ROAD SWITCH BACKS AND LYING 9' WEST OF NORTH END OF GUARD RAIL)
36	N 57°27'22.52059"	W 152°27'03.19275"	26904.9450	43582.0300	60.8168	14.506	PAS 9.3 - AT MP 9.2 (BRASS CAP ON DRIVE ROD APPROX. 190' NORTH OF PLASTIC CULVERT AND LYING 35' WEST OF PASAGSHAK ROAD CENTERLINE)

NOTE:
1. REFERENCE SHOULD BE MADE TO SHEET ONE FOR ALL PROJECT NOTES.

KODIAK RECORDING DISTRICT
STATE BUSINESS - NO FEE
THIS SURVEY DOES NOT CONSTITUTE A SUBDIVISION
AS DEFINED BY AS 40.15.900

Date	Revision	Initials
3/04/05	Revised to enhance background features	RMK

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES
SURVEY CONTROL DIAGRAM
RECORD OF SURVEY
PROJECT NO. 56551
CHINIAK HIGHWAY AND PASAGSHAK ROAD
REHABILITATION ROW SURVEY

LOCATED IN SEC. 3, 9, 10, 16, 17, 20, 21, 22, 23, 24, 25, 26, 35, T29S R20W; SEC. 2, 3, 10, 11, 12, 14, 15, 22, 27, 34, 35, T30S R20W; SEC. 2, 11, 14, 23, 26, 35, 36, T31S R20W; SEC. 31, T32S R20W; SEC. 6, T32S R19W; SEC. 6, T30W R19W; SEC. 31, 32, 33, 34, 35, 36, T29S R19W; SEC. 6 T29S R18W, S.M. ALASKA

DRAWN	GDS	DATE	8-12-04	SCALE	1"=2640'
CHECKED		DATE		SHEET	3 OF 3