

ALASKA DOT + PF
AKSAS PROJECT NO. 59325
MEKORYUK AIRPORT IMPROVEMENTS
MEKORYUK, ALASKA



"Rite in the Rain"
ALL-WEATHER
CROSS SECTION
No. 370-6F

SURVEY FIELD NOTES
BOOK 2 OF 2
SEPT 2009



DOWL HKM

Dowl W04 1127.60417.01

FB.2287

2287 AKSAS NO. 59325 MEKORYUK AIRPORT IMPROVEMENTS

No. 370-6F Cross Sec



32011 37
37 971-1 37

CONTENTS		
PAGE	REFERENCE	DATE
01	SURVEYOR STAMP	
02, 03, 06, 11, 15, 21, 25	GPS TOPO 20000 - 24999	
02, 04, 05, 07-10, 12, 13, 16, 17, 23, 24	GPS TOPO 25000 - 29999	
14, 18, 19, 20, 22, 31,	GPS TOPO 30000 - 34999	
27, 28, 29, 30, 33	GPS TOPO 35000 - 36551	
38 - 52	GPS TOPO 40000 - 40903	
26, 32,	GPS TOPO 50000 - 51568	

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Project 1127. 60417.01
AKSAS 59325
MEKORYUK AIRPORT IMPROVEMENTS

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Page Pattern		Cover Options	
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1/10" Grid	1/10" Grid	N/A	Item No. 370-6F

2287

I, A. WILLIE STOLL, ALASKA LAND
SURVEYOR NO. 12041, DO HEREBY CERTIFY THAT THE
WORK CONTAINED ON SHEET 1 OF BOOK 52
HEREIN, HAS BEEN PERFORMED BY ME OR BY OTHERS
UNDER MY DIRECT SUPERVISION AND THAT IT MEETS
MINIMUM SURVEY REQUIREMENTS OF ADOT & PF



112760417 MEKORUK AIRPORT IMPROVEMENTS

GPS - RTK - TOPD

POINT MIS/UNIT HT. READING ANT/O.S. LOCAL TIME GOOD/SATS

20001 RTK/ROU14 6.562 FT. AX1230 9:16 AM 0.03/11/11/11

*25001 RTK/ROU15 POLE 9:21 AM 0.04/11/11/11

20002

20280 RTK/ROU14 " "

20421 " "

20439

20440

25002 RTK/ROU15

25059 * FIX CODE

25117

25238 - 25240

25241

25270

25290

25305

25316

25354

25363 * FIX CODE

25404 RTK/ROU15 6.562 AX123066 POLE

DEL - 25028 - 25038

SEPT. 10, 2009

GPS

O'CAST. 45°

WIND

2287 02

STOLL

FOLGER

BOJRO

DESC.

CHK/552 - 3/4" BC-MON

CHK/552 - " " " *

GS/

CHK/ BC-MON

" SAME ↑

CHK BC-MON

GS/

EW01

GS/

CHK/ BC-MON

GS/

ET01.

GS/

EW02

GS/

EW03

GS/

CHK/552

1127.60417.01 MCKOR YUK AIRPORT IMPROVEMENTS GPS - RTK - TOPO

POINT	ANIS/UNGT	HT. READING	ANT/O.S.	LOCAL TIME	QC/SATS
20441	RTK/ROV14	6.562 FT	AX1230	08:45	0.04/8-8-8
25405	RTK/ROV15		POLE	0844	0.04/8-8-8
20442				09:06	0.03/11-11-11
20535				10:48	0.04/9-9-10
20538				10:54	0.04/8-8-8
20540				10:58	0.04/7-7-8
20542				11:02	0.04/7-7-7
20544				11:04	0.05/7-7-7
20548				11:19	0.06/7-7-8
20549				11:20	0.05/7-7-8
20586				11:35	0.09/7-7-7
20589				11:45	0.05/8-8-8
20592				11:59	0.05/8-8-8
20595				12:05	0.05/8-8-8
20596				12:31	0.04/9-9-9
20645				13:30	0.03/10-10-11
20843				17:26	0.05/8-8-8
20844				17:30	0.04/8-8-8
20936				19:05	0.04/

SEPT. 11, 2009
GSP

HIGH 8' CACT,
45°

2287 03

STOLL
FOLGER
BOT RD

DESC.
CHK/710

CHK/710

GSI

POWR/POLE - 1 FT. O.S. - 3 LINES

POWR/ANCH

POWR/POLE

POWR/ANCH

POWR/POLE

TOE50 - MARSHY CLEARING

TOP50 /SHOT 20579 = TOE50

POWR/POLE

POWR/ANCH

POWR/POLE

POWR/ANCH

GSI

CHK/710

TOP51

TOE51

CHK/710

1127.60417.01 MEKORYUK AIRPORT IMPROVEMENTS

-TOPO SURVEY-

POINT	MISS/UNIT	Ht READG	ANT °/s	LOCAL TIME	GOOD/SATS
25405	RTK	15.6.562'	AX1230614	0844	-
25406					
25568					
25578					
25811					
25820					
25833					
25840					
25857					
25873					
25888					
*25917					
25928					
25930					
25936					
25945					
25957					
25958					
26109					
26123					
26130					
26133					

11-SEPT-09

2287 04
Boko

DESC
CHK/710
GS1
EXT02
GS1
GB01
TOP01
TDE01
TDE02
TOP02
TOP03
TDE03
TOP10
CHK/726
GB03
TDE04
GB04
TOP05
TDE05
TDE06
TOP06
TOP07
TDE07

1127.6047.01 MEKORYUK Airport IMPROVEMENTS

—RTK TOPOGRAPHY—

POINT	MISS/UNIT	H	BEAC	ANT	Q/S	LOCAL	TIME	LG/SATS
26140	RTK	2015	6.562'	A	23066	1830	—	
26149								
26202								
26218								

11 SEPT 2009

2287 05

Bojko

DESC

TOE08

TOP08

TOP09

CHK/733

60417 MEKORUK AIRPORT IMPROVEMENTS

GPS - RTK TOPO

POINT	MIS/UNIT	HT. READING	ANT. H.S.	LOCAL TIME	QC / SATS
20937	RTK/ROV14	6.562 FT.	AX1230	08:43	0.05/8-8-8
20938			POLE	08:55	0.04/11-11-11
21288				13:03	0.03/10-10-10
21289				13:04	0.04/10-10-10
21244				15:16	0.03/10-10-10
21245				15:31	0.04/9-9-10
21556				17:28	0.06/7-7-7
21649				18:51	0.03/9-9-9
21657				18:54	0.04/9-9-9
21665				18:58	0.04/9-9-9

SEPT. 12, 2009

GPS

HIGH O'CAST

45°

2287 06

STOLL
FOLGER
BOTKO

DESC.

CHK/710

GS/

TOP52

TOP52

EW50

CHK/2200

CHK/2200

EW51

TOP53

CHK/2200

1127.6091701

MEKOLYUK Airport Improvements

GPS-RTK TOPD

Point	MIS/unit	Ht. Reading	Ant/U.S.	Local Time	QC / SATS
26219	RTK/ROV15	6.562 Ft	AX1230 POLE	08:44	0.0023
26220				08:55	
26231				09:18	
26238				09:20	
26247				09:36	
26257				09:43	
26259				09:49	
26268				09:52	
26291				10:02:15	
26292				10:02:30	
26305				10:07:25	
26311				10:09:10	
26315				10:11:25	
26316				10:12:00	
26330				10:24:10	
26342				10:28:35	
26343				10:28:55	
26354				10:38:45	
26355				10:39:50	
26384				10:50:35	
26401				10:59:00	
26410				11:02:50	
26416				11:04:45	
26417				11:05:00	
26458				11:21:55	

Sept. 12, 2009

GPS

High O'cast

45°

Mist

2287 07

STOLL
FOLGER
BOIKO

DESL

CHK/401

GB05

GB06

TOE11

TOP11

GS/

TOP12

TOE12

TOP13

TOE13

TOE14

TOP14

TOE15

TOP15

GB07

TOP16

TOE16

TOE17

TOP17

GB08

GB09

GB10

TOP18

TOE18

GB11

1127.60412101

Mekoryuk Airport Project
GPS RTK TOPD

Point	Mis/Units	Ht. Reading	Ant/U.S.	Local Time	QC/SATS
26463	RTK/ROV15	6.562	AX1230 66	11:27:40	0.0139
26485				11:57:40	
26489				12:01:50	
26498 **				12:19:20	
26508				12:25:55	
26515				12:33:35	
26516				12:34:45	
26526				12:42:05	
26527				12:42:55	
26535 **				12:51:00	
26556				12:52:35	
26557 **				12:53:10	
26538				13:07:00	
26547				13:13:50	
26548				13:15:10	
26557				13:22:55	
26560				13:25:40	
26569 **				13:35:20	
26571				13:38:20	
26581				13:46:35	
26583				13:48:15	
26591				14:03:25	
26592				14:04:40	
26605				14:21:30	

Sept 12, 2009

GPS

2287 08

STOLL
FOLGER
BOTKO

DESC

GS/

FED1

GS/

TOP20

GS/

FED1

GS/

FED1

GS/

TOP20

GS/

TOP20

GS/

FED1

GS/

FED1

GS/

TOP20

GS/

FED1

GS/

FED1

GS/

END1

4x4 rotted fence post - (same for all FED1 DESC.)

****Wrong Code** - All EWOZ should be TOP20

1127.60417.01

MeKoryuk Airport Improvements

GPS/RTK TOPO

Point	Mis/Units	Ht. Reading	Ant. US	LOCAL Time	QC/SATS
26606	RTK/20V15	6.562	AX13066	14:21:55	0.0158
26608				14:28:55	
26609				14:30:30	
26621				14:41:55	
26623				14:43:40	
26631				14:52:25	
26632				14:53:50	
26645				15:00:55	
26646				15:09:45	
26648				15:14:40	
26649				15:25:35	
26671				15:36:20	
26674				15:38:40	
26689				15:55:40	
26690				15:56:20	
26694				16:04:20	
26702				16:13:55	0.0020
26703				16:14:40	
26712				16:34:35	
26714				16:36:10	
26721				16:42:35	
26722				16:43:55	
26738				16:58:40	
26740				17:01:55	
26781				17:39:05	
26783				17:41:10	
26808				18:03:20	

Sept 12, 2009

2287 09

STOLL
FOLGER
BOJKE

DESC

TOP20

EW01

GS/

FE01

GS/

FE01

GS/

TOP20

EW01

TOP20

GS/

FE01

GS/

EW01

TOP20

GS/

CHK/553

GS/

FE01

GS/

FE01

GS/

TOP20

GS/

TOP20

GS/

FE01

112760417.01

MeKoryuk Improvements
GPS / RTK TOPO

Point	Mis/Units	Ht Reading	Ant/U.S	Local Time	OC/SATS
26809	RTK/RDS 15	6.562	AX 123066	18:04:25	0.0134
26815				18:10:55	
26825				18:19:50	
26827				18:21:10	
26838				18:41:35	

2287 10

Sept. 12, 2009

Baiko

Desc

GS/

FE02

Metal T-Bar Posts w/ Wood stakes - Bent over

TOP20

GS/

CHK/401

1127160417011111 KORYAK AIRPORT IMPROVEMENTS RTK-GPS - TOPO

POINT	NAIS/UNIT	Ht. READING	ANT/O.S.	LOCAL TIME	QC/SATS
21666	RTK/ROV14	6.562 FT.	AX1230	09:17	0.04/11-11-12
21667			POLE	09:21	0.04/11-11-12
21689				09:38	0.05/11-11-11
21690				09:41	0.04/11-11-11
22036				13:27	0.63/10-10-10
22128				14:30	0.04/8-8-8
22392				18:48	0.04/9-9-9

SEPT, 13, 2009

GPS

HIGH O'CAST

45°

2287 11

STOLL
FOLLER
BOJRO

DESC.

CHK/2200

GS1

TOE54

TOP54

CHK/

CHK/

CHK/2200

1127.6041701 MEKORYUK AIRPORT Improvements
RTK - GPS TOPO

Point	Mis/Unit	Ht. Reading	Ant/U.S	Local time	Qc/stats
26839	RTK/POV15	6.562 ft	AX 1230	09:19:25	0.0021
26840					
26841					
26843					
26845					
26847 *				09:43:45	0.0018
26848					
26849					
26851					
26853					
26857					
26859					
26864					
26869					
26874					
26876					
26880					
26881					
26885					
26888					
26892					
26905					
26913					
26918					
26936					
26937					

Sept 13, 2009

High blast
windy, rain

2287 12

Boiko

DESC

CHK/110

GS/

TOP21

GS/

TOP21

CHK/TAZ

GS/

TOP21

GS/

TOP21

GS/

TOP21

GS/

TOP21

GS/

TOP21

GS/

TOP21

GS/

TOP21

GS/

TOP21

GS/

TOP22

TOP22

GS/

TOP23

EW03

** Change check shot # once assigned.

- Large water area

1127.60417.01

Mekoruk Airport Improvements
RTK/GPS TOPO

Point	Mis/Unit	Ht. Reading	Ant/US	Local Time	QC/sats
26941	RTK/POU15	6.562 ft	AX1230	11:12:25	0.0198
26948					
26977					
26982					
26990					
27009					
27013					
27025					
27106					
27107					
27121					
27175					
27201					
27213					
27227					
27213					
27280					
27297					
27386 **				17:30:55	0.0048
27387					
27454				18:33:40	0.0062

Sept. 13, 2009

High & cast
windy, Rain

2287 13

BOLKO

Disc:

GS/	
OTLN01	- Swampy area w/water
GS/	
TOP23	
OTLN02	- Swamp area w/water
GS/	
TOP24	
GS/	
EW04	- POND AREA
TOP25	- TOP of POND AREA
GS/	
GB12	
TOP26	
GS	
GB14	
GS/	
GB15	
GS/	
CHK/TR2	
GS/	
CHK/710	

* Change Checkshot # once assigned
same as prev. page

112760417.01 MEKORUK Airport Improvements

- RTK Topo Survey -

Point Miss/Unit Ht Read ANT °/s Local Time CQ/SATS
 30001 RTK00126.562' AX1202GG 0914 0.03 -
 POE

* 30002 30" 552 = CHK/552
 30880

30926

30975

31025

31508

Notes: Delete All "Topo" Desc
 Shots. Shots Taken to Remind
 Surveyor of Add'l Topo Areas
 To Detail!

13 SEPT 2009

2287 14

File = 09-13-2009 CHK/250W

Desc.

CHK/710 3/4" BGMON SEE FBK 2286 P9

GS/

TOP201

TOE201

EW201

GS/

CHK/710 3/4" BGMON.

> OF H2O BODY

1127.60417.01

MEIKOEYUK AIRPORT IMPROVEMENTS

RTK - GPS - TOPO

POINT	MIS/UNIT	HT. READING	ANT/O.S.	LOCAL TIME	QC/SATS
22393	RTK/ROV14	6.562 FT.	AX1230 POLE	08:36	0.05/8-8-9
22394				08:42	0.04/10-10-11
22854				14:44	0.04/9-9-9
22971				16:29	0.04/7-7-7
22990				16:48	0.04/7-7-7
23015				17:06	0.06/6-6-7
23016				17:16	0.06/7-7-7
23017				17:17	0.06/7-7-7
23056				17:30	0.07/6-6-7
23062				17:33	0.07/6-6-6
23069				17:39	0.07/7-7-8
23070				17:40	0.06/7-7-8
23087				17:47	0.05/9-9-10
23112				18:04	0.04/10-10-10
23172				18:30	0.03/10-10-10
23206				18:44	0.04/9-9-9
23229				18:56	0.04/8-8-9
23256				19:09	0.05/8-8-8

SEPT, 14, 2009

GPS

2287 15

STOLL
FOLGER
ROSKO

DESL.

CHK/715

GSI

CHK/MC

TOP55

TOE55

CHK/MC

TOP56

TOE56

TOE57

TOP57

TOP58

TOE58

TOP60 - BERING SEA BANK

TOP61 - DITCH - DRAINAGE

GB50

GB51

TOE59 - TO DIRT ROAD

CHK/710

MEKOR YUK Airport Improvements GPS RTK TOPO

Point	Mis/Unit	Ht. Reading	Ant/D.S	Local Time	AC/Sat
26455	RTK/ROVIS	6.562	AX1230		
27456					
27465					
27471					
27472					
27570					
27584					
27615					
27622					
27640					
27641					
27670					
27673					
27697					
27742					
27747					
27825					
27858					
27867					
27886					
27893					
27934					
27967 *					
27968					
28014					
28076					
28077					

15:25:20 • 0.0032

Sept 14, 2009

ouncast - break of sun 2287 16
50°

DESC	Backo
CHK/710	
GS/	
GB/16	
EW05	
TOP27 -	TOP OF Pond
GS/	
EW06 -	SWAMPY Marsh
GB/17	
GS/	
TOP26	
TOP26	
TOP28 -	TOP OF Pond
EW07	
GS/	
TOP28	
GS/	
GB/18	
GB/16 -	GB/18 and GB/16 all one long extension
GS/	
TOE29	
TOP29	
GB/20	
CHK/TR2WP	change # once assigned
GS/	
GB21	
TOP31	
EW08	

Makoyrok Airport Improvements

RTK-GPS TOPD

Point	Mis/unit	Ht Reading	Ant/US	Local Time	Qc Sats
28088	RTK/ROV15	6.562		17:24:40	0.0262
28089					
28114					
28120					
28121					
28130					
28134					
28173					
28174					
28185					
28208					
28209					
28214					
28222				19:05:25	0.0012

Sept 14, 2009

2287 17

BAICO

Desc	
TOE 32	
TOP 32	
GS/	
TOP 31	TOP OF Pond
EW08	
GB 22	
GS/	
TOP 33	
TOE 33	
GS/	
TOP 31	
EW08	
GS	
CHK/710	

-TOPO SURVEY-

POINT	MISS/UNIT	Ht READS	ANT 0/S	LOCAL TIME	CQ/SATS
31509	RTK R0112	6.562'	AX120266Pole	0837	0.002/-
31510					
31511					
31512					
31958					
31965					
31969					
31975					
31983					
31992					
32001					
32008					
32015					
32022					
32028					
32032					
32037					
32047					
32051					
32059					
32067					
32075					
32084					
32104					
32125					
32135					
32140					
32150					
32160					
32170					
32195					
32220					
32224					

14 SEPT 2009

2287 18

STOW

DESC.

CHK 1710
 GEN
 EW202
 TOE202
 TOP202
 EW203
 EW204
 EW205
 TOE203
 TOP203
 TOP204
 TOE204
 EW206
 EW207
 EW208
 EW209
 TOE205
 EW210
 TOE206
 TOP206
 TOE207
 EW211
 TOE208
 TOP208
 TOP209
 EW212
 EW213
 TOP210
 TOE210
 TOE211
 TOP211
 EW214
 TOP212

-RTL TOPO SURVEY-

POINT	MISS/UNIT	Ht READG	ANT °/s	LOCAL TIME	CD/SATS
32225	RTL	6.562'	AX1202	POLE 1401	0.02
32226					
32250					
32261					
32266					
32284					
32302					
32317					
32327					
32335					
32350					
32392					
32419					
32428					
32445					
32446					
32469					
32481					
32487					
32506					
32450					
32565					
32578					
32589					
32606					
32603					
32671					
32676					
32681					
32686					
32707					
32735					
32769					
32782					
32783					

14 SEPT 2009

2287 19

Stoll

Desc.
 EW215 X-SECTS
 TOE212
 EW216
 EW217
 X-SECTS TOP/TOE 213, EW218
 " " 214, EW219
 " " 215, EW220
 TOE216
 TOP216
 TOP217/TOE217, EW221
 X-SECT TOP/TOE 218, EW222
 TOP/TOE 219
 TROI (4-WHEELER TRAIL E)
 TOP/TOE 220
 CHK/710
 TOP/TOE 223
 TOP/TOE 222
 EW225
 TOE221 /TOP221
 TOE/TOP 224
 TOP/TOE 225
 " 226
 " 227
 " 228
 " 229
 EW 223
 EW 224
 EW 226
 EW 227
 X SECT TOP/TOE 230, EW 228
 " " 231 " 229
 EW 230
 EW 231
 CHK/711
 TOP/TOE 232

1127.60417.01 MEKORYUK Airport IMPROVEMENTS

-RTK Topo SURVEY-

POINT MISS/UNIT Ht READ ANT °/s LOCAL TIME (Q/SATS)

32827 RTK POU 12 6.562' AX120266 Pole 20:14 0.03

32874

32897

32903

- SEPT 15 2009 -

32905 RTK POU 12 " " 0845

32906

32912

32931

32944

32954

32966

32977

32985

33006

33054

33066

33109

33124

33135

33151

33158

33164

33168

33169

33174

33182

33183

33185

33187

33195

33196

CONT ON Pg 22

14. SEPT 2009

2287 20

STOW

DESL

TOP/TOE 233

" 234

GS/

GS/

CHK 1710

EW 232

TOP 235 / TOE 235

TOP/TOE 236

TOP/TOE 237

TOP/TOE 238

" 239

" 240

" 241 - EW 233

" 242

" 243

" 244

" 245 EW 234

" 246

" 247

EW 235

EW 236

EW 237

POWR / PED

AF / LTRW

AF / LTAP "VASE"

AF / JBOX - 1'x1' CONC STRUCT.

AF / LTRW

AF / LTRW - MISSING LT ONLY BASE

AF / LTAP "VASE"

AF / JBOX

AF / LTRW

60417.01 MEKORYUK AIRPORT IMPROVEMENTS
RTK - GPS - TOPO

POINT	MIS/UNIT	Ht. READNG	ANTENNA	LOCAL TIME	QC / SATS
23257	PRK/ROV14	6.562 FT.	AX1230 POLE	08:46	0.04/11-11-11
23258				08:51	0.04/11-11-11
23596				13:53	0.05/8-8-8
23597				13:58	0.06/8-8-8
23621				14:16	0.05/8-8-8
23625				15:01	0.04/10-10-10
23713				15:22	0.03/9-9-11
23714				15:25	0.04/10-10-12
23734				15:37	0.04/11-11-12
23745				15:43	0.03/11-11-12
23749				15:49	0.04/10-10-10
23768				16:03	0.03/9-9-9
23785				16:13	0.04/8-8-8
23817				16:29	0.04/7-7-7
23848				16:49	0.05/7-7-7
23870				17:23	0.07/7-7-7
23871				17:27	0.07/6-6-6
23872				17:28	0.07/6-6-6
24019				18:20	0.04/10-10-10
24020				18:20	0.04/10-10-10
24073				18:45	0.04/9-9-9

SEPT. 15, 2009

PARTLY CLOUDY
40°

2287 21

STOLL
FOLGER
BOTRO

DESC.

CHK/702

GS/

CHK/702

TOE60 - BEARING SEA

TOE61 - DRAINAGE DITCH

TOP62 - BEARING SEA

TOP63

TOE63

GB52

GB53

GB54

GB55

GB56

GB57

TOE62 - BEARING SEA

CHK/702

RG50 - GRAVEL / DIRT ROAD

RG51 - " " "

TOE64

TOE65

CHK/2200

1127.60417.01

MEKONG AIRPORT IMPROVEMENTS

- Rtk Topo -

Point	MISS/UNIT	Ht READG	ANT °/s	LOCAL TIME	CQ/SATS
33202	Rtk Rou 12	6.562	AN 202 POU	1113	0.06 -
33204					
33205					
33207					
33209					
33210					
33212					
33214					
33219					
33221					
33226					
33227					
33228					
33229					
33230					
33233					
33235					
33238					
33239					
33241					
33249					
33250					
33252					
33254					
33262					
33263					
33264					
33266					
33269					
33283					
33294					
33301					
33308					

15 SEPT 2009

2287 22

50W

DESC.

AF/LTH-MISSING LIGHT OUT BASE

AF/LTRW

AF/LTRW-MISSING LIGHT

AF/LTRW

" - MISSING LIGHT

"

" - MISSING LIGHT

"

AF/LTH-MISSING LIGHT

"

" - MISSING LIGHT

AF/LTTX

AF/JBOX

AF/LTTX-MISSING LIGHT

"

AF/BOX

AF/LTTX

AF/LTTX-MISSING LIGHT

AF/LTTX

AF/LTAP "VASE"

AF/LTRW-MISSING

AF/LTRW

" - MISSING

AF/LTAP "VASE"

AF/LTRW

CHK/710

GS/GWY

EW238/239/240 - POND H₂O ELEV.

EW/241 - LINER - OF WATER TREATMENT POND

RD248/249 - SEWAGE LAGOON

FE201 - DUMP FENCE

TOE248 OF JUNK CARS ETC.

CHK/710 -

60417.01

Me Koryuk Airport Improvement
RTK-GPS Topo

Point	Mis. North	Ht. Reading	Ant	Local Time	AC Sat
28223	RTK/ROUIS	6.562	AW1230	8:41:50	0.0142
28224					
28233					
28234					
28240					
28449					
28450					
28465					
28470					
28471					
28691					
28775					
28783					
28791					
28803					
28942					
28952					
28954					
28963					
28974					
28980					
28984					
28992					
29018					
29025					
29035					
29036					
29058					
29075					
29097					
29116					

Sept 15, 2009

partly sunny

2287 23

Desc
CHK/710
GS/
TUP31
EW08
GS/
TUP36
EW09
GS/
TUP34
TOE34
GS/
GB25
TUP37
EW10
GS/
GB26
TOE38
TUP38
GB28
TOE39
TUP39
GB30
GB31
TUP40
TOE40
TOE41
TUP41
GB32
GB33
GB34
TOE43

60417.01

Melkoryuk Airport Improvements GPS RTK TOPO

Pont	Mis/Vant	Ht Reading	Ant	Local Time	& Sats
29117	RTK/LOV15	615.62	AX1203	18:15:40	0.0367
29126					
29139				18:34:00	0.0105
29140				18:42:30	0.0114

Sept. 15, 2009

2287 24

BOLCO

DESC

TOP43

6235

CHK/ *

CHK/ *

Willie will add #
once assigned

2041701 MEKORYUK AIRPORT IMPROVEMENTS
RTK-GPS-TOPO

POINT	MIS/UNIT	Ht. READING	ANT/D.S.	LOCAL TIME	QC/SATS
24074	RTK/ROV14	6.562 FT	AX1230 POLE	08:44	0.05/11-11-11
24105				08:53	0.04/11-11-11
24190				10:09	0.04/10-10-10
24338				11:58	0.04/7-7-8
24339				11:58	0.05/7-7-7
24408				12:51	0.03/10-10-10
24657				15:56	0.03/9-9-9
24835				18:06	0.04/9-9-10
24836				18:06	0.04/9-9-10
24837				18:06	0.04/9-9-10
24921				19:00	0.04/8-8-8

SEPT. 16, 2009
GPS

M24 CLOUDY
45°

2287 25

FILBOR

DESC.

CHK/710

GS1

POWER/BOX-WOOD BASE

CHK/710

CU50-1511 CMP

FE50-6' WOOD POSTS W/MESHED WIRE

CHK/

TOE66

TOP 66

GB58

CHK/

60417.01

McKoy Creek Airport Improvement
RTK GPS TOPO

Point	Mix/Unit	Ht. Reading	Ant/U.S.	Local Time	RT Start
50000	RTK/ROVIS	6.562	AX1230	8:41:35	0.0107
50001					
50017					
50018					
50024					
50025					
50032					
50187					
50188					
50199					
50222					
50223					
50233					
50284					
50237					
50269				13:01:10	0.0186
50270					
50314					
50343					
50634					
50647					
50648					
50660					
50683				18:44:55	0.0625
50684				18:55:10	0.0112

Sept. 16, 2009

sunny with high winds

2287 26

Desc.	
CHK/	
GS/	
CHK/	2" Alcap on 3/8 Rebar Bent over - sticking out of the
GS/	ground 1.0' - took shot at ground.
TOP45	
EW11	
GS/	
TOP46	
EW12	
GS	
EW3	
TOP47	
TOP48	
EW14	
GS/	
CHK/TRC C9	
GS/	
GB25	
GS/	
GB26	
TOE49	
TOP49	
GB27	
CHK/TR2 C11	
CHK/	

604170.1 MEKORYUK AIRPORT IMPROVEMENTS
RTK-GPS-TOPD

PONT	MIS/UNIT	HT. LEAD	ANT/D.S.	LOCAL TIME	Qc / SATS
35,000	RTK/ROV14	6.562 FT.	AX1230	08:28	0.05/10-10-11
35,001			POLE	08:43	0.04/11-11-11
35033				09:11	0.04/11-11-11
35034				09:12	0.04/11-11-11
35043				09:18	0.04/11-11-11
35044				09:20	0.04/11-11-11
35057				09:28	0.04/11-11-11
35058				09:28	0.04/11-11-11
35071				09:35	0.04/11-11-11
35072				09:36	0.04/10-10-11
35081				09:42	0.04/9-9-9
35082				09:43	0.04/9-9-9
35095				09:50	0.04/9-9-9
35096				09:51	0.04/9-9-9
35103				09:56	0.04/8-8-10
35108				09:57	0.04/8-8-10
35117				10:07	0.04/10-10-10
35118				10:08	0.04/10-10-10
35129				10:17	0.04/10-10-10
35133				10:19	0.04/10-10-10

SEPT. 17, 2009
GPS

O'CAST, WIND
145°

2287 27
FOLGER

DESC.

CHIKI

GS/

TOP 67

TOE 67

TOP 68

TOE 68

TOP 69

TOE 69

TOP 70

TOE 70

TOP 71

TOE 71

TOP 72

TOE 72

TOP 73

TOE 73

TOP 74

TOE 74

TOP 75

TOE 75

60477.01 MEKORYUK AIRPORT IMPROVEMENTS
RTK - GPS - TUPO

POINT	UNIT/MIS.	HT. READ	ANT/D.S.	LOC	TIME	Q.C.	DATS
35142	RTK/ROW 14	6.562 FT.	AX1230 POLE	10:32	0.04	8-8-8	
35154				10:40	0.04	8-8-8	
35178				10:58	0.04	7-7-7	
35179				10:59	0.04	7-7-7	
35198				11:09	0.04	7-7-7	
35199				11:10	0.05	7-7-7	
35220				11:22	0.05	8-8-8	
35221				11:22	0.05	8-8-8	
35248				11:36	0.04	8-8-8	
35249				11:37	0.04	8-8-8	
35262				11:45	0.04	8-8-8	
35263				11:46	0.04	8-8-8	
35431				14:19	0.04	8-8-8	
35432				14:20	0.04	8-8-8	
35447				14:26	0.04	8	
35448				14:27	0.04	8	
35461				14:38	0.04	10	
35462				14:38	0.04	10	

9-17-09

2287 28

L. FOLGER

DESC.

TOE 76

TOP 76

TOE 77

TOP 77

TOP 78

TOE 78

TOP 79

TOE 79

TOP 80

TOE 80

TOP 81

TOE 81

TOP 82

TOE 82

TOP 83

TOE 83

TOP 84

TOE 84

60417.01 MEIKORVUK AIRPORT IMPROVEMENTS
RTK - GPS - TOPO

POINT	MIS/UNIT	HT. ROAD	ANT/O.S.	LOCAL TIME	QC/SATS
35479	RTK/RAV14	6.562 FT.	AX1230 POLE	14:47	0.04/10-10-10
35480				14:48	0.04/10-10
35491				14:56	0.04/10-10
35497				14:57	0.04/10-10
35503				15:05	0.04/9-9
35504				15:06	0.04/9-9
35525				15:21	0.03/11-11-12
35534				15:28	0.04/11-11-11
35543				15:42	0.04/10-10-12
35550				16:02	0.03/8-8-8
35551				16:43	0.05/6-6-7
35552				16:43	0.05/6-6-7
35569				16:52	0.05/6-6-7
35587				17:03	0.06/7-7-7
35588				17:04	0.06/7-7-7
35630				17:29	0.04/7-7-8
35631				17:30	0.05/7-7-8
35638				17:36	0.04/10-10
35639				17:37	0.04/10-10

9-17-09

2287 29

L. FOLGER

DESC.

TOP85

TOE85

TOP86

TOE86

TOP87

TOE87

GB59

GB60

GB61

CHK1

TOP88

TOE88

GB62

TOP89

TOE89

TOP90

TOE90

TOP91

TOE91

60417.01 AMEKOR YUK AIRPORT IMPROVEMENTS
RTK-GPC-TOPO

POINT	UNIT/MIS.	HT. READ	ANT/O.S.	LOCAL TIME	DE/SATS
35668	RTK/ROV14	6.562 FT	AX1230	17:47	0.04/00-10
35669			POLE	17:47	0.04/10-10
35678				17:56	0.04/10-10
35679				17:56	0.04/10-10
35696				18:11	0.04/10-10
35697				18:11	0.04/10-10
35710				18:20	0.04/10-10
35711				18:20	0.04/10-10
35727				18:30	0.04/9-9-9
35728				18:30	0.04/9-9-9
35743				18:50	0.04/08-8

9-17-07

2287 30

L. FOLGER

DEC C,

TOP92

TOE92

TOP93

TOE93

TOP94

TOE94

TOP95

TOE95

TOP96

TOE96

CHK/

60417.01 MEKORYUK AIRPORT IMPROVEMENTS

- RTK TOPO -

POINT	MISS/UNIT	Ht READ	ANT %	LOCAL TIME	GOOD SATS
33309	RTK ROUTE	6.562	AXI202F0VE	0833	0.04/
33310	"				
33429					
33476					
33625					
33643					
33686					
33693					
33706					
33714					
33722					
33742					
33769					
33896					
33906					
33937					
33948					
34074					
34078					
34270					
34276					
34282					
34288					
34294					
34317					
34348					
34374					
34387					
34610					
34618					
34847					

17 SEPTEMBER 2009

2287 31

STOLL

DESC

CHK/
TOP250/T0E250 - EW243
GS/
EW244
TOP251 - EW245
GS/
GB201
GS/
GB202
GB203
GS/
TOP/T0E 252 - EW246
GS/
TR202
GS/
EW247
GS/
EW248
GS/
RG201
RG202
T0E253
GS/
GB205/204
GB206/207
GB208/209
GB210
GS/
CHK/401
GS/
CHK

60.417.01.55

MEKORYUK Airport Improvements
RTK TOPO

Point	Unit/Mis	Ht. Reading	Ant	Local Time	QC/sats
50685	RTK/ROVIS	6.562	AX1230	8:34:20	0.0107
50686					
50689					
50699					
50738					
50739					
50797					
50824					
50838					
50883				11:42:15	0.0097
50896					
50902					
50940					
50941					
50961					
50968					
51083					
51095					
51246					
51270					
51340					
51363					
51397					
51414					
51419					
51449					
51456					
51472					
51519					
51559					
51568				10:54:05	0.0115

Sept 17, 2009

Cloudy - Sight Breeze

2287 32

Route

DESC

CHK/ *

Willie will assign # to checkshot

GS/

GB28

GS/

TOP48

EW14

GS/

GB29

GS/

CHK/ *

TOP151

GS

EW15

TOP152

GB30

GS/

TOP153

GS/

GB39

GS/

GB38

GS/

FE01

- 8' Metal Fence w/ wood posts every 15' e/w

GB37

GS/

GB36

GB35

FE01

GB34

FE02

CHK/ *

- 6' Metal fence N/S

112760417.01 MEKORYUK. AIRPORT IMPROVEMENTS

-RTK TOPO SURVEY-

POINT	MISS/UNIT	Ht READG	ANT %S	LOCAL TIME	GOOD/SAT
35744	RTK P0014	6.562'	AX123066	0829	0.03/-
35745					
35780					
35785					
35883					
35905					
35906					
35932					
36001					
36002					
36024					
36029					
36032					
36068					
36083					
36011					
36030					
360378					
360382					
360393					
360395					
36400					

18. SEPT 2009

2287 33

FOLGER

DESC.

CHK/709

TRSD 2 4-WHEELER TRAIL
FES1 10' +/- WOOD FENCE

GS/

TOP97/EWS2 X-SECT

GS/

TOP98/EWS3 X-SECT

GS/

CHK/744

GS/

GS/

GS/

TOP99/TOE100/TOP100

GS/

TOP100 - TOE100 - TOE99 GS MIX

GS/

TOP/TOE 101

GS/

TOP/TOE 102

GS/

TOE102

GS/

1127.60417.01 MEKONGK Airport Improvements

—RTK TOPO—

POINT	MISS/UNIT	H READ	ANT °/s	LOCAL TIME	CQ/SATS
36401	RTK0014	6.562'	AX120266	1645	0.03

36406

36408

36409

36448

~~36449~~

* CHANGED BASE TO 402 *

36449	RTK0014	6.562'	AX120266	2032	—
-------	---------	--------	----------	------	---

36450

36482

36518

36534

36538

36542

36546

36551				21 19	—
-------	--	--	--	-------	---

18 SEPT 2009

2287 34

FOLGER

DESC.

TOE102

GSI

CHK/702

CS

CHK/709

CHK/

RG52/53

RG54/55

RG56/57

RG58

RG59

RG60

RG61

CHK/—

1127.60417.01 MEKORYUK AIRPORT IMPROVEMENTS

TOPO SURVEY

POINT HORIZA ZEN S.DIST ROD CODE

T@ P 402

5.08, 1.550

BS 782

537, 1637

40001 0 00 00 88 29 51 532.586 5.37

40002 237 04 13 91 15 46 162.594 5.29

40003 243 23 36 90 27 44 70.730 #

40004 0

40014 235 14 55 90 42 59 5.29

40016 0

40036 166.934 5.29

40039 40.538

40043

40051 30.625

40054 77.840 5.29

40057 0

40096 356 36 48 88 29 35 5.25

40121 69.151 0

40139 90.264 5.29

40154

40157 0 00 03 89 29 51 5.37

LEICATURP1205+
SN/215994

18 SEPT 09

2287 38

STOU

PRM=1.3

DESC

CHK/182

CHK/194

GS/

SOUL - 5

GS/

SOUL - 5

GS/

SOUL 6

7.9

10

GS/

SOUL 10-23

GS

SOUL 24

GS/

LLOI

CHK/182

112760417.01 MELORUK AIRPORT IMPROVEMENT

— TOPO SURVEY —

POINT HORIZ & ZEN & S. DIST ROD CODE

TR@ P 142 5.31, 1.620

BST@ P 402 4.87, 1.485

40158 0.0000 9039 10 472.560 4.87

40159 106.0457 8932.25 521.940 5.29

40160 0

40181 191.557 5.29

40205 50.069 0

40217 51.561 5.29

*40235 210.513 0

40281 110.644 5.29

40283 272.091

40285 325.256 12.00
327.119

40287 131.423 5.25

40290 359.595 9038.56 472.560 4.87

010400 0

LEIMA TURPIZOS
50/215994
PPM=1.9

18 SEPT 2009

2287 39

STOLL
BOJKO

DESC

CHK/402

CHK/777

SOU 29-35

GS1

36-39

GS 1

SOU 40-49 FIX ROD

3CU01 18" CRP

" 02 "

CU03

10' CHAINLINK FE01

CHK/402

62-47
1127.60411.01 MEKORYUK AIRPORT IMPROVEMENTS

Topo SURVEY-

POINT HORIZX ZENX S. DIST Rod CODE

TK@ 777 517, 1.577

BS TO 742 5.09, 1.553

40291 = 902843 521.926 5.09

40292 590059 900312 659.846 5.29

40293 602348 0

40308 630.816 5.29

40330 327.619 0

40399 7.823 5.29

40408 174.294 "

40410 359595820 2841 521.924 5.09

LEICA TOPP1205
SU/215994
PPM=1.9

18 SEPT 2009

2287 40

STOL
BOJICO

DESC

CHK/742

CHK/782

SOUSD-54

GS/

SOUSS-59

GS/

OVOC 18" Crp

CHK/742

1127.60417.01

MEKORYUK AIRPORT IMPROVEMENTS

- TOPO SURVEY -

POINT	HORIZA	ZEN	S. DIST	ROD	CODE
	K@401		540.1.64		
	BSTO 722		443.1.350		
40411	00000894948		750.755	4.43	
40412	1434501903108		383.934	5.29	
40413				5.29	
40414				0	
40415			282.904	5.29	
40431				"	
40432				0	
40433				0	
40434				0	
40435				5.29	
40436				5.29	
40437				0	
40448				5.29	
40451				"	
40452				0	
40453				0	
40454			93.937	0	
40455			468.801	5.29	
40456	00003894944		750.756	4.43	

LEICA TOPCON
SN/215994
PPM=1.9

18 SEPT 2009

2287 41

Stou
Boiko

DESC.

CHK/722

CHK/721

WIND SOCK

" . TOP

SEG. CIRCLE 55 GAL DRUMS

OLD WINDCONE

OLD WINDCONE . TOP

AF/WEATHER . TOP ANT

" " @ TOP

AF/WEATHER CENTER 10' HI- OCTAGON BUDG

POWE/POLE / POWE POLE . TOP

" . TOP

POWE/POLE

POWE/POLE 3X3 FIBERGLASS

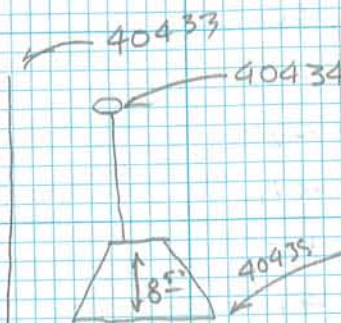
BL TOP

" . @ LIGHT "BEACON"

"

POWE/POLE

CHK/722



1127.60417.01 MEKORYUK AIRPORT IMPROVEMENTS

-TOPO SURVEY-

POINT HORIZ & ZEN & S. DIST ROD CODE

K & P 723 4.43, 1.504

BSTO 722 443 1.350

40457 00000 891037 350.019 4.43

40458 26939.29 894646 662.089 5.29

40459 "

40461 5.29

40462 "

40468 622641 891110 887.543 10-

40471 858.222 10-

40473 772.274 5.29

40477 742.679 "

40479 609.943 "

40481 00004 891045 350.019 4.43

LEICA TOPCON
SU/215714
PPM=1.9

18 SEPT 2009

2287 42

Stou
Bojko

DESC.

CHK/722

CHK/401

COOS 24" CMP

POWR/POLE

" . TOP

"

POWR/ANCH

POWR/POLE & TOP

" /ANCH

CUOG 24" CMP S. SIDE BENT

CHK/722

1127.60417.01 MEKOTYUK AIRPORT IMPROVEMENTS

TOPO SURVEY

POINT	HORIZ	ZEN	S. DIST	ROD	CODE
-------	-------	-----	---------	-----	------

	K@ P	730		MU	4.68, 1.428
	BSTO P	740		MU =	4.44, 1.355

40482	0 00 00	895536	1668.286	4.44	
40483	52 52 28	905054	116.754	5.29	
40484			856.262	10-	
40485			"	0	
40487				5.29	
40490			292.479	"	
40492			150.082	"	
40498			440.500	10-	
40500				5.29	
40504			768.199		
40505	0	895535	1668.287	4.44	

LEICA TOPCON
SN/215994

PM=1.9

18. SEPT 2009

2287 43

Stou

Boiko

DESC.

CHK/740

CHK/732

POWER/POLE

POWER/POLE TOP

POWER/POLE

C007 24" CMP

POWER/POLE

C008 96" CMP ✓ Double ✓ 8' = 96"

POWER/POLE

POWER/ANCH

CHK/740

1127.60417.01 MEKORYUK AIRPORT IMPROVEMENTS

- TOPO SURVEY -

POINT	HORIZ	ZEN	S. DIST	ROD	CODE
-------	-------	-----	---------	-----	------

K@ R 740 4.65, 1.418

BSTO R 730 4.45, 1.358

40506 00000900600 1668.291 4.45

40507 2780043901041 100.021 5.29

40508 20.116

40509 692.847 10

40510 691.428 5.29

40511 @

40524 856.895 5.29

40525 "

40526 @

40527 800.425 5.29

40529 @

40538 806.097 5.29

40541 695.716 "

40542 3595957900612 1668.293 4.45

LEICA TUP1205+
SN/215994
PM=1.9

18 SEPT 2009

2287 44

Stall
Bajko

DESC

CHK/730

CHK/738

POWER/ANCH

"

Power/Power

" . TOP

Power/ANCH

Power/Power

" . Top

0009 24" CMP.

SOU 78-80

GS/

POWER/ANCH

CHK/730

1127.60417.01 MEKORYUK Airport IMPROVEMENTS

TOPO SURVEY

POINT Horiz & ZENX S.DIST ROD CODE

K@ P 741 470, 1.433

BSTO P 744 486, 1.480

40543 00000 911223 497.712 4.86

40544 219926 893648 100.102 5.29

40545 3440801 921632 273.154 "

40547 679.170 "

40549 527.041 ⊖

40558 485.078

40561 1400155 892600 950.047 15-

40563 3595955 911441 497.713 4.86

LEICA TOP1205
SN/215994
PRH=1.9

18 SEPT 2009

2287 45
STOL
BOLKO

DESC

CHK/744

CHK/743

C010 24" CMP

C011 "

300 81-83

BS/

C012 24" CMP

CHK/744

1127.60417.01 MEKORYUK AIRPORT IMPROVEMENTS

— TOPO SURVEY —

POINT HORIZA ZENQ S. DIST ROD CODE

KT@R 750 456 1.390

BSTO R 758 448, 1.368

40564 0 0000 903619 942.521 4.48

40565 3158037912215 170.043 5.29

40566 670.517 "

40568 648.508 0

40571 648.536 5.29

40573 0

40578 596.947 5.29

40580 300.934 0

40585 603.490 5.29

40587 1079.588 "

40589 0 0003 903606 942.521 4.48

LEICA TURP1205+

SN/215994

PRM=1.9

18 SEPT 2009

2287 46

STOLL

DESC.

CHK/758

CHK/753

CU13 24" CMP

SOV84-86

BS

SOV84-86

BS/

SOV87

CU14 24" CMP

CU15 "

CHK/758

1127.12047.01 MELORUK AIRPORT IMPROVEMENTS

— Topo Survey —

Point Horiz Zen S.Dif Rod Code

K @ 758 471, 1.437

BTD 750 435, 1.327

40590 0 892514 942519 5.35

40591 700800 881249 45.209 5.29

40592 267.380 11

40593 268.047 0

40594 0

40595 559.576 5.29

40597 548.116 0

40599 945.589 5.29

40600 417.62 0

40603 389.082 5.29

40615 159.603 10.00

40616 2251057 891722 5.29

40617 0 0000 892535 4.35

LEICATARD 1205+
SN/ 215994
PPH=19

18 SEPT 2009

2287 47

STOLL
BOLKO

Desc

CHK/750

CHK/755

ANT. GOLF BALL @ FOUND

ANT. " @ TOP

ANT @ ~~CHK~~ TOP

" @ GS

" @ TOP

ANT @ GS

SOB7-89

GS1

CUIG 84" COP

"

CHK/750

1127.60417.01 MEKORYUK AIRPORT IMPROVEMENTS

— TOPO SURVEY —

POINT HORIZ & ZEN & S. DIST ROD CODE

TC @ Pt 795 S25, 1.600

BSTO Pt 775 S. 36, 1.633

40618 0 0000 895621 366.652 5.36

40619 241449 90335 75.616 5.29

40620 $\emptyset$

40653 313.699 5.29

40686 3595955 895610 366.652 5.36

LEICA TOPP1205+

SN/215994

PPM=1.9

18 SEPT 2009

2287 48

STOU
BOJKA

DESC

CHK/775

CHK/789

SON-90-100

GS

CHK/775

1127.60417.01 MEXORYUK Airport IMPROVEMENTS

-TOPO SURVEY-

POINT	HORIZX	ZENX	S. DIST	ROD	CODE
	K@ A	773	570, 1.737		
	BSTO A	775	536, 1.633		
40687	00000	902140	446.324	5.36	
40688	2990614	905515	104.274	5.29	
40689			97.174	0	
40710			324.861	5.29	
40716					
40717			275.228	10	
40718			161872	5.29	
40729			82957	"	
40731				0	
40776			293.563	5.29	
40782			251.636	"	
40784			249.801	"	
40786			253.869	"	
40787	3595954	902141	446.323	5.36	

ZEICA TOPP1205
SN/215974
PPM=1.9

18-SEPT 2009

2287 49

STOLL
BOOK

DESC.

CHK/775

CHK/776

SOU101 → 107

GS/

BLOZ

"

GS/

BLO3

SOU108-

GS

07-122

CV17 24"

CV18 18"

CV19 "

CHK/775

1127.60417.01 MEKORYUK Airport IMPROVEMENTS

— TOPO SURVEY —

POINT	HORIZX	ZENX	S. DIST	ROD	CODE
	TC R	TM	488, 1.490		
	BSTO R	76A	4.78, 1.458		
4078 9	0	902554	557.958	4.78	
40790	842501	895637	100.035	5.29	
40791			183.062	0	
40809			43.724	"	
40833				0	
40854	00003	902546	557.958	4.78	

LEICA TERP1205+
SN/215994
PPM=1.9

19 SEPT 2009

2287 50

Stou
Bosico

DESC.

CHK/764

CHK/768

SOU 123

GS/

SOU 129

CHK/764

1127.60417.01 MEKORYUK AIRPORT IMPROVEMENTS

-TOPO SURVEY-

POINT HORIZX ZENX S.DIST ROD CODE

K@ R 764 4.99, 1.524

B@ R 771 4.66 1.420

40855 0 0000 893720 557.955 4.66

40856 2753937 90 50 08 100.097 5.29

40857 179.364 "

40859 231.145 "

40862 363.517 "

40864 680.662

40867 717.549 5.29

40868 " 0

40869 " "

40871 901.079 0

40872 " 5.29

40873 903.681

40894 0 893719 557.955 4.66

LEICA TCPI205
SU/215994
PPM=1.9

19 SEPT 2009

2287 51

STOW

DESC.

CHK/771

CHK/767

CU20 24"

CS/ 24"

CU21 24"

CS/

WIND@ CS/

" @ TOP

" @ BLADE TOP

" @ TOP

" @ CS/

CS/

CHK/771

154
41

1127:60417.01 MEKORYUK Airport IMPROVEMENT

— TOPO SURVEY

POINT Horiz. ZEN. S. DIST ROD CODE

T@ R 401 5.50³, 1.687

Bs to R 723 4.80, 1.464

40895 0 901548 662.099 4.80

40896 1155736 903156 382.902 5.29

40897 179.485 0

40903 3595959 901539 662.099 4.80

LEICA TCRP12057
SN/215914
PPM=1.9

19 SEPT 2009

2287 52

Stoll
Bojko

DESC.

CHK/723

CHK/721

BL. EVR

CHK/723