



**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/7/16 TIME: 13:25 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-01

STATE: Florida LATITUDE: 28°15'19.2983Z N LONGITUDE: 81°21'01.85738 W

ADDRESS and/or INTERSECTION: MAVY ISLAND RD

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.007 V: 0.015 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

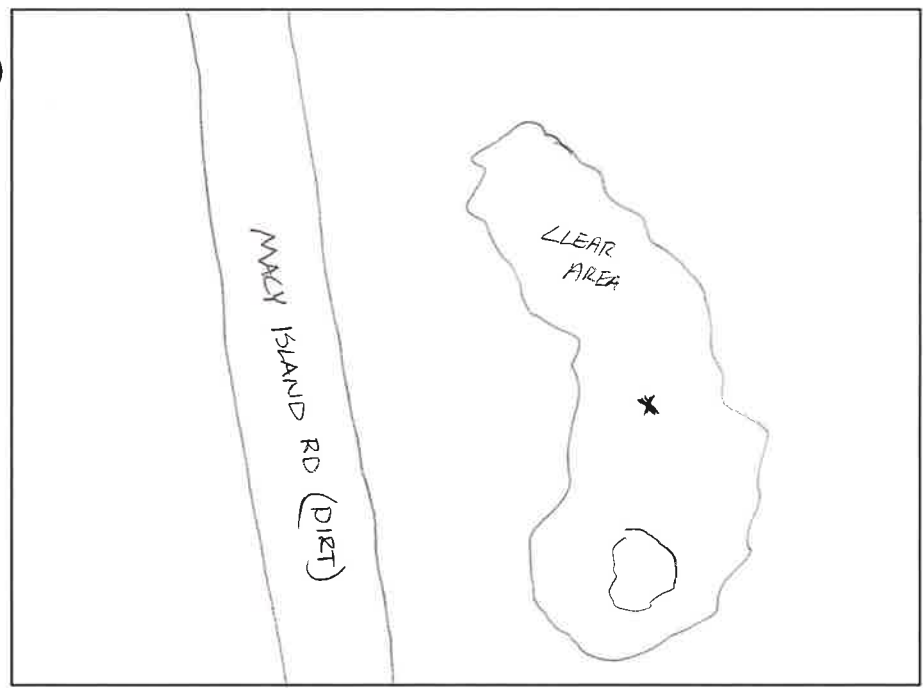
**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3/8 TIME: 0701 AM/PM

RE-CHECK PT. NUMBER: VVA-01 CHK  
H= 0.094 V= 0.147



SKETCH AREA

**DESCRIPTION OF POINT:**

60-D NAIL SET





# GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/7/16 TIME: 1445 AM/PM PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-02

STATE: Florida LATITUDE: 28°15'12.87313" LONGITUDE: 81°13'57.73993

ADDRESS and/or INTERSECTION: LILLIAN RD AND NORA TYSON RD

## OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

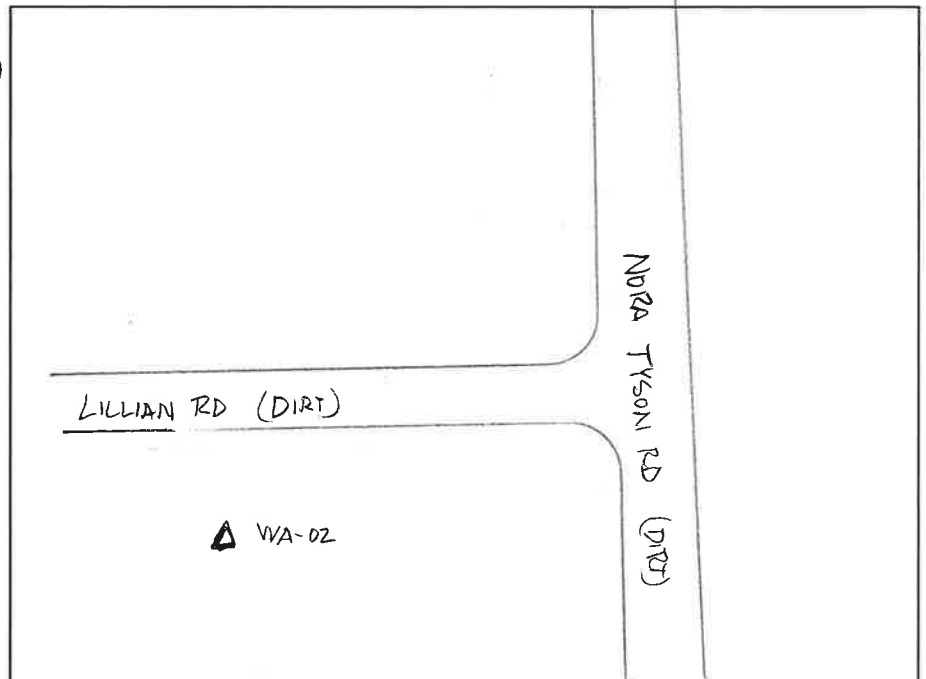
## PICTURES:

☒ PICTURE(S) OF AREA & SETUP

## POINT RE-CHECK:

DATE: 3/8/16 TIME: 0845 AM/PM

RE-CHECK PT. NUMBER: VVA-02 CHK



SKETCH AREA

## DESCRIPTION OF POINT:

100-D NAIL





**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/8/16 TIME: 1051 AM/PM EMPLOYEE NAME: Milo Kolberg  
JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-03 PT 1024  
STATE: Florida LATITUDE: 28°11'45.19668" LONGITUDE: 81°10'35.62587  
ADDRESS and/or INTERSECTION: HICKORY TREE RD.

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3 MIN  
☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_  
☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_  
☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

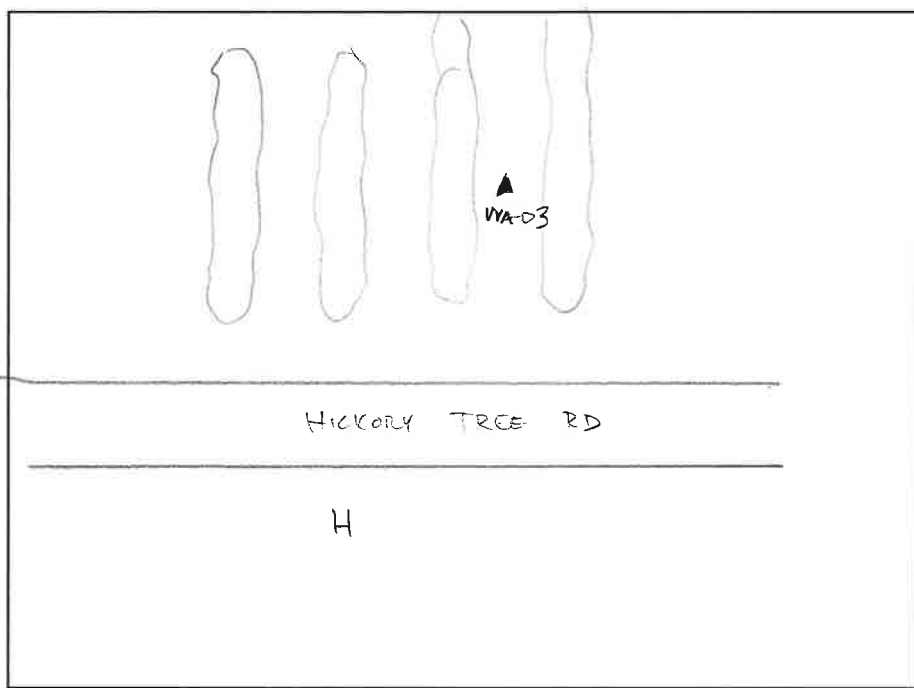
☐ Non-Vegetated Vertical Accuracy (NVA-#)  
☒ Vegetated Vertical Accuracy (VVA-#)

**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3/9/16 TIME: 0911 AM/PM  
RE-CHECK PT. NUMBER: VVA-03 CHK  
PT 1043



**SKETCH AREA**

**DESCRIPTION OF POINT:**

60-D NAIL





# **GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/8/16 TIME: 1230 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-04 PT 1026

STATE: Florida LATITUDE: 28° 12' 59.25397" LONGITUDE: 81° 10' 46.52345"

ADDRESS and/or INTERSECTION: BREEZY PINE RD

## **OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## **TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

## **PICTURES:**

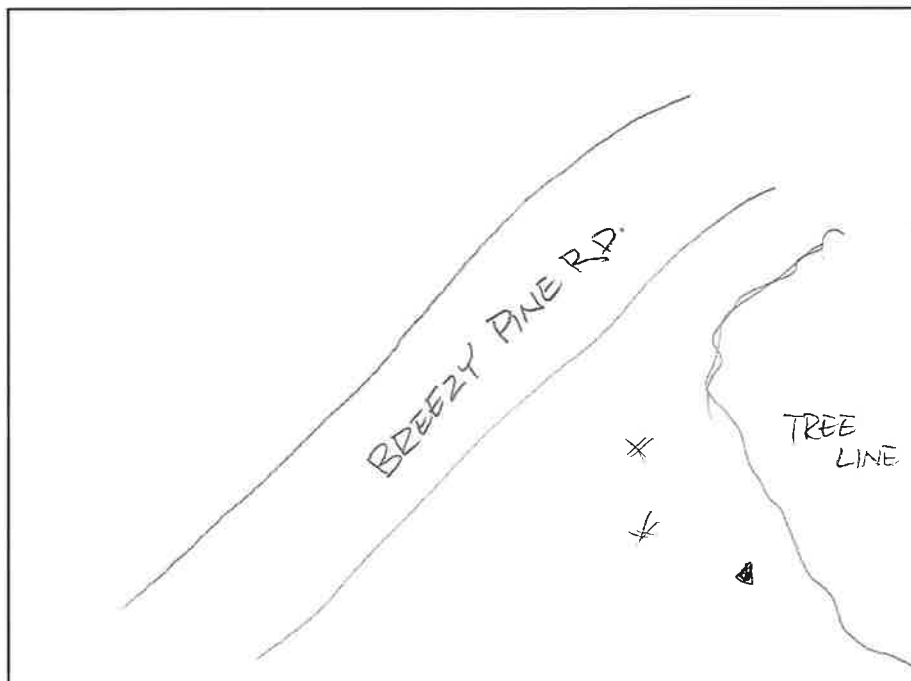
☒ PICTURE(S) OF AREA & SETUP

## **POINT RE-CHECK:**

DATE: 3/9/16 TIME: 0935 AM/PM

RE-CHECK PT. NUMBER: VVA-04CHK

PT. 1043



**SKETCH AREA**

## **DESCRIPTION OF POINT:**

60-D NAIL





# **GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/8/16 TIME: 1615 AM/PM EMPLOYEE NAME: Milo Kolberg  
 JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-05 PT1032  
 STATE: Florida LATITUDE: 28°11'12.84719" LONGITUDE: 81°20'02.52041"  
 ADDRESS and/or INTERSECTION: LAKE TOHOPEKALIGA RD

## **OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3 MIN  
☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
 PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
 (20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
 PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_  
☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_  
☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## **TYPE OF LAND COVER:**

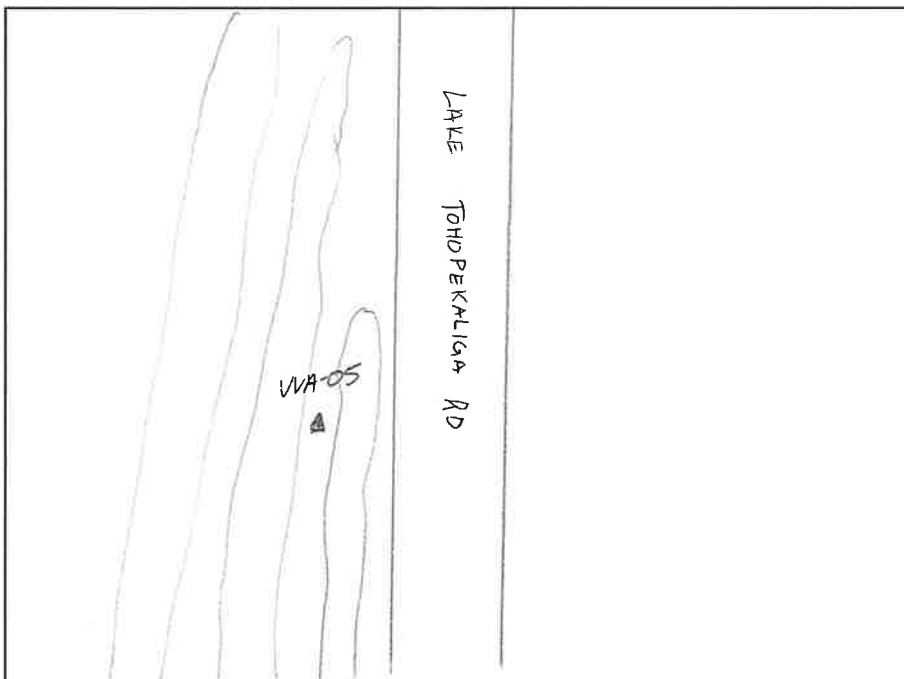
☐ Non-Vegetated Vertical Accuracy (NVA-#)  
☒ Vegetated Vertical Accuracy (VVA-#)

## **PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

## **POINT RE-CHECK:**

DATE: 3/9/16 TIME: 0805 AM/PM  
 RE-CHECK PT. NUMBER: VVA-05 PT1039



SKETCH AREA

## **DESCRIPTION OF POINT:**

60-D NAIL IN ORANGE GROVE





# GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/9/16 TIME: 1145 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-06 PT. 1047

STATE: Florida LATITUDE: 28°16'32.65862" LONGITUDE: 81°06'59.94375"

ADDRESS and/or INTERSECTION: Nova Rd.

## OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

## PICTURES:

☒ PICTURE(S) OF AREA & SETUP

## POINT RE-CHECK:

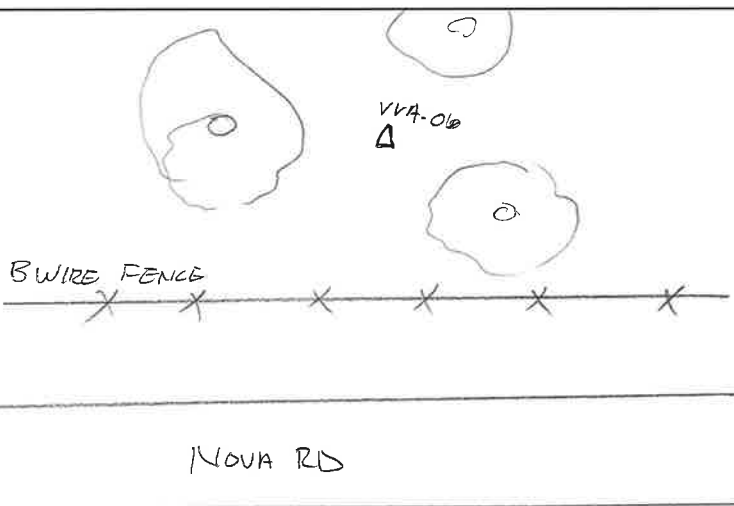
DATE: 3/10/16 TIME: 0807 AM/PM

RE-CHECK PT. NUMBER: VVA-06 CHK  
PT. 1060

## DESCRIPTION OF POINT:

60-D NAIL

## SKETCH AREA







# GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/9/16 TIME: 1223 AM/PM EMPLOYEE NAME: Milo Kolberg  
 JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-07 PT. 1048  
 STATE: Florida LATITUDE: 28°16'29.29282" LONGITUDE: 81°02'47.10713"  
 ADDRESS and/or INTERSECTION: Nova RD

## OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
 PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
 PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_  
☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_  
☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## TYPE OF LAND COVER:

- ☐ Non-Vegetated Vertical Accuracy (NVA-#)  
☒ Vegetated Vertical Accuracy (VVA-#)

## PICTURES:

☒ PICTURE(S) OF AREA & SETUP

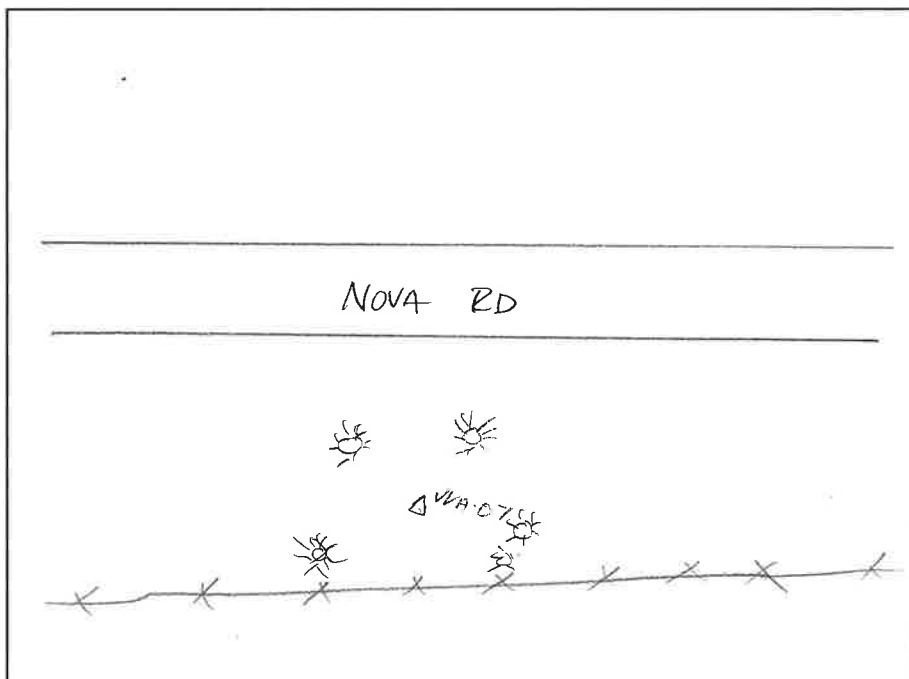
## POINT RE-CHECK:

DATE: 3/16/17 TIME: 0828 AM/PM

RE-CHECK PT. NUMBER: VVA-07 CHK  
 PT. 1061

## DESCRIPTION OF POINT:

60D NAIL



SKETCH AREA





**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/9/16 TIME: 1325 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-08 P-1051

STATE: Florida LATITUDE: 28° 16' 08.40151" LONGITUDE: 80° 59' 40.71566"

ADDRESS and/or INTERSECTION: N/A

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.03 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_  
☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_  
☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)  
☒ Vegetated Vertical Accuracy (VVA-#)

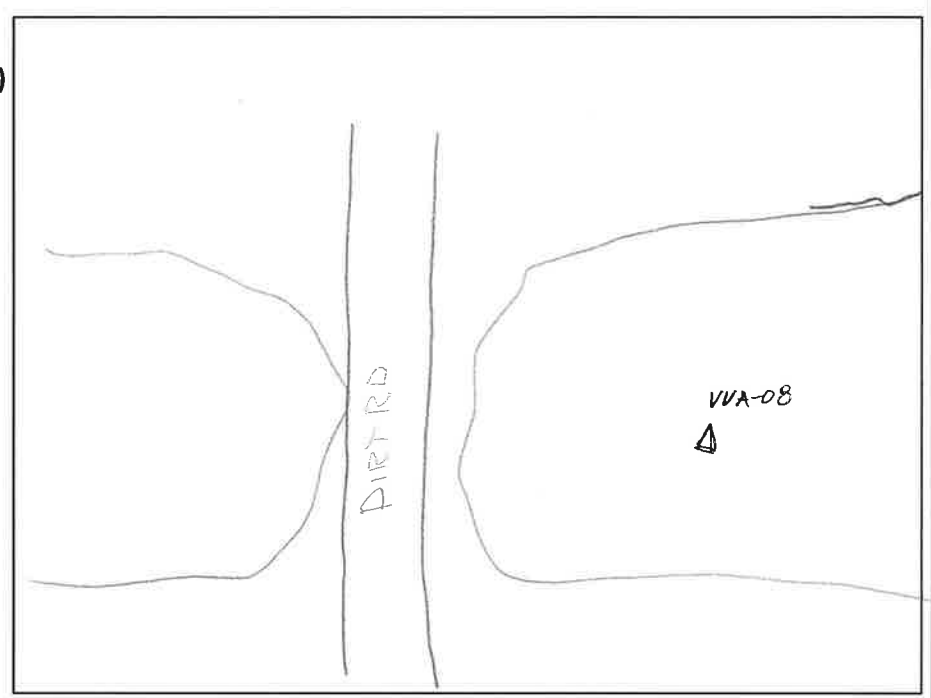
**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3/10/16 TIME: 0900 AM/PM

RE-CHECK PT. NUMBER: VVA-08 CHK  
PT 1063



SKETCH AREA

**DESCRIPTION OF POINT:**

60-D NAIL





**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/9/16 TIME: 400 AM/PM EMPLOYEE NAME: Milo Kolberg  
 JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-09 PT 1652  
 STATE: Florida LATITUDE: 28° 18' 10.35101" LONGITUDE: 80° 55' 12.76835"  
 ADDRESS and/or INTERSECTION: NOVA RD

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.03 DURATION: 3 MIN  
☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
 PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
 (20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
 PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_  
☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_  
☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

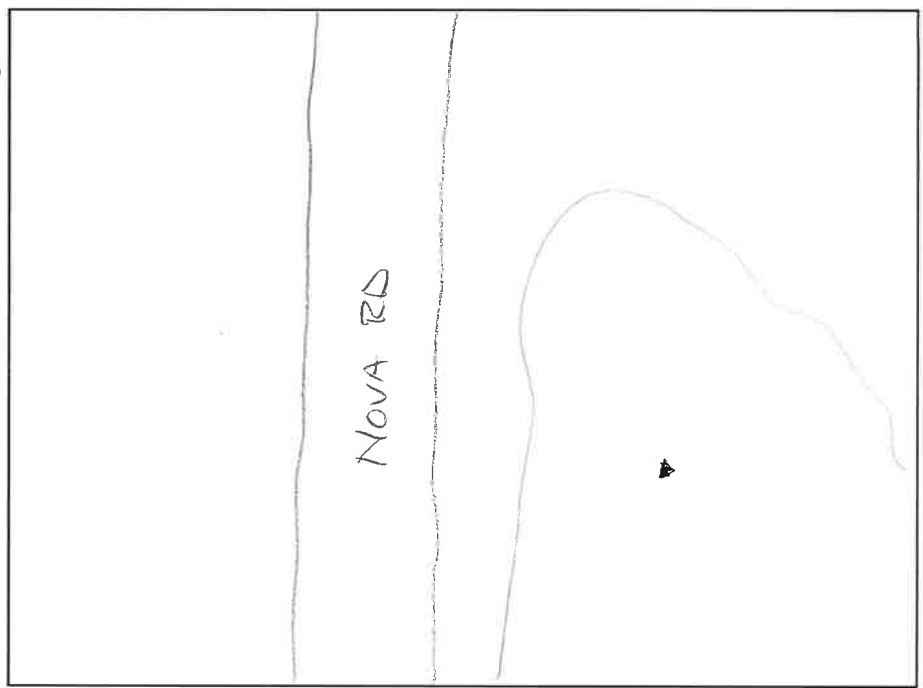
☐ Non-Vegetated Vertical Accuracy (NVA-#)  
☒ Vegetated Vertical Accuracy (VVA-#)

**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3/10/16 TIME: 0937 AM/PM  
 RE-CHECK PT. NUMBER: VVA-09 CHK



SKETCH AREA

**DESCRIPTION OF POINT:**

60-D NAIL





# **GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/9/16 TIME: 1340 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-10 PT 1055

STATE: Florida LATITUDE: 28°17'49.39212" LONGITUDE: 80°59'35.97643"

ADDRESS and/or INTERSECTION: TAYLOR WOODS RD

## **OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.02 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## **TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

## **PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

## **POINT RE-CHECK:**

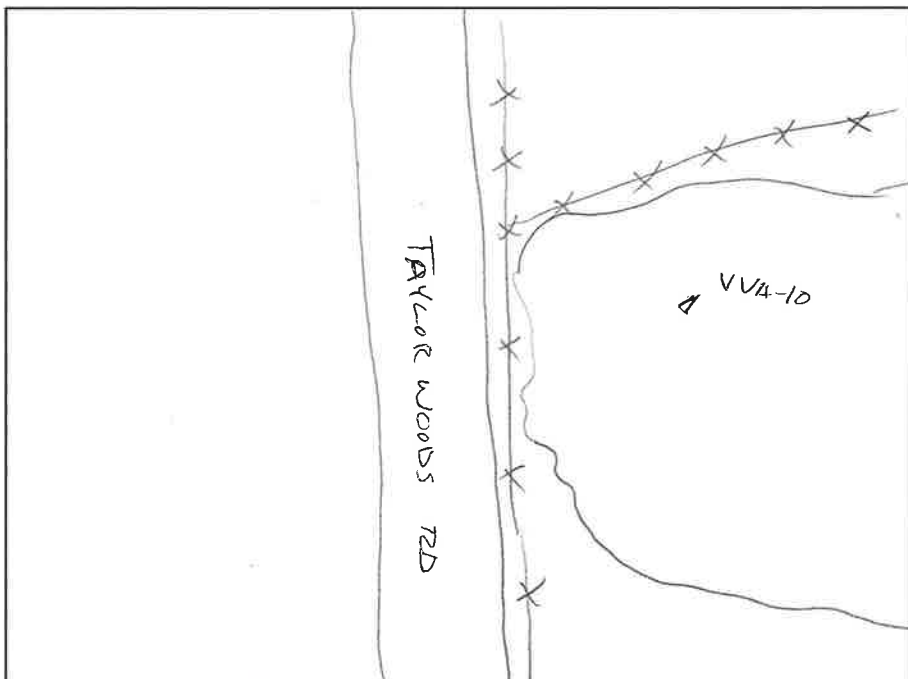
DATE: 3/10/16 TIME: 1042 AM/PM

RE-CHECK PT. NUMBER: VVA-10

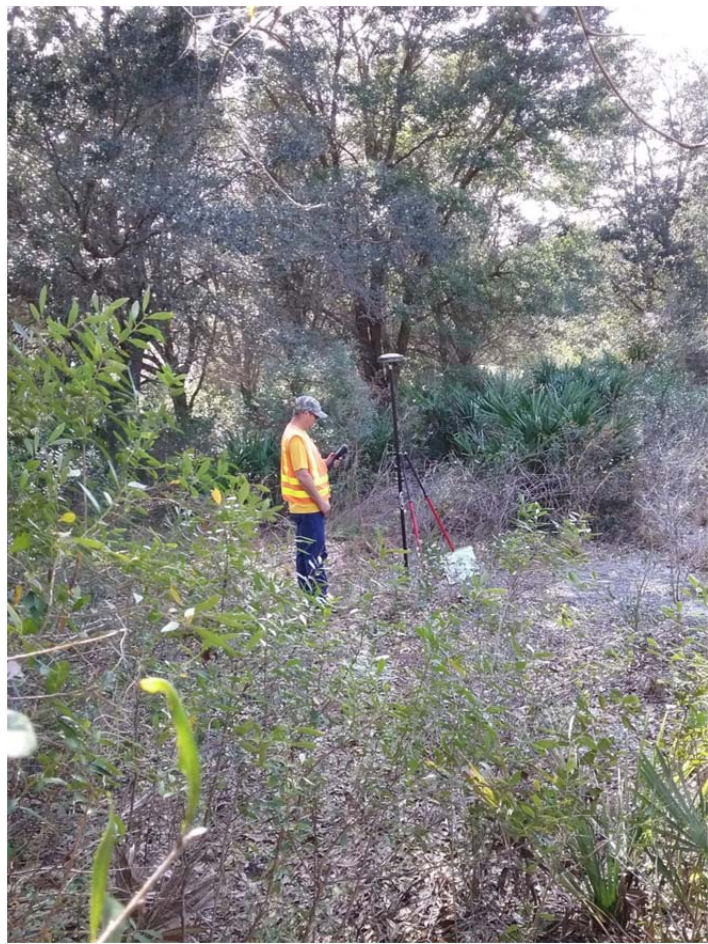
PT 1067

## **DESCRIPTION OF POINT:**

60-D NAIL



SKETCH AREA





# GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/9/16 TIME: 1635 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-11 1056

STATE: Florida LATITUDE: 28°17'58.85819 LONGITUDE: 81°01'43.20973"

ADDRESS and/or INTERSECTION: DESERET PROP

## OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

## PICTURES:

☒ PICTURE(S) OF AREA & SETUP

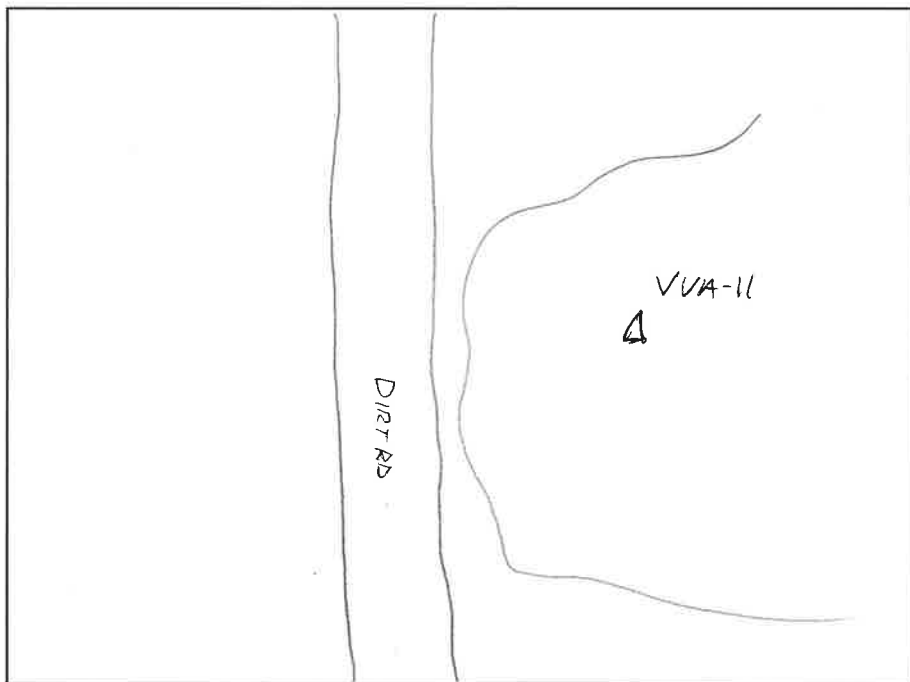
## POINT RE-CHECK:

DATE: 3/10/16 TIME: 1615 AM/PM

RE-CHECK PT. NUMBER: VVA-11 CHK  
PT 1074

## DESCRIPTION OF POINT:

60-DNAL



SKETCH AREA





PREBLE-RISH INC.  
CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/9 TIME: 1223 AM/PM EMPLOYEE NAME: Milo Kolberg  
 JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-12 PT1068  
 STATE: Florida LATITUDE: 28°18'05.71123" LONGITUDE: 81°09'43.61897  
 ADDRESS and/or INTERSECTION: SUN GROVE LN

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.03 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
 PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

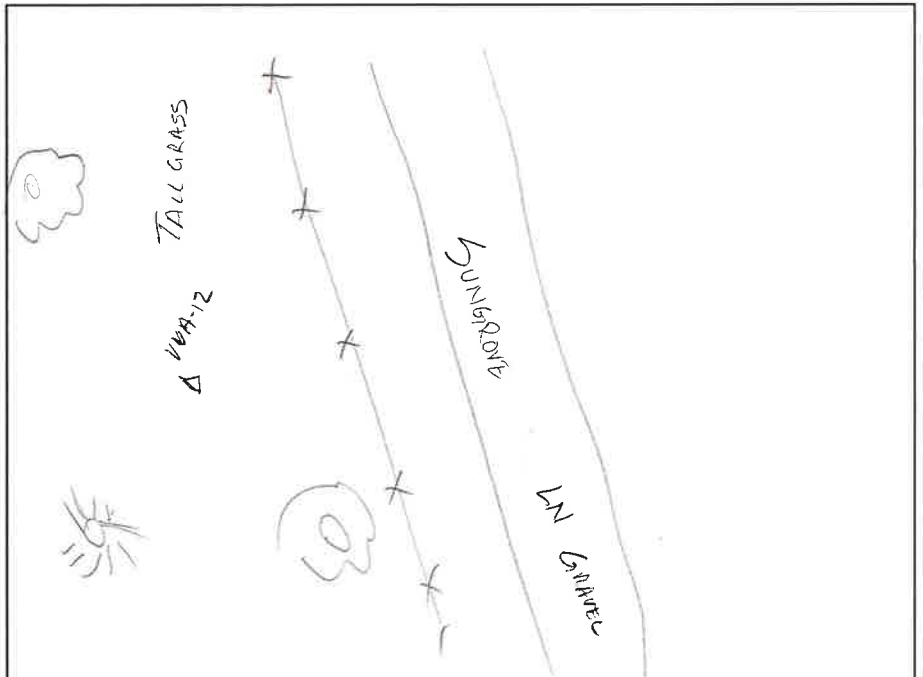
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3/11/16 TIME: 0755 AM/PM

RE-CHECK PT. NUMBER: VVA-12 CHK



SKETCH AREA

#### DESCRIPTION OF POINT:

60-D NAIL





### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/10/16 TIME: 1340 AM/PM EMPLOYEE NAME: Milo Kolberg  
 JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-13 PT1070  
 STATE: Florida LATITUDE: 28° 18' 05.64005" LONGITUDE: 85° 18' 05.64005"  
 ADDRESS and/or INTERSECTION: S. STATE HWY 13

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
 PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
 PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

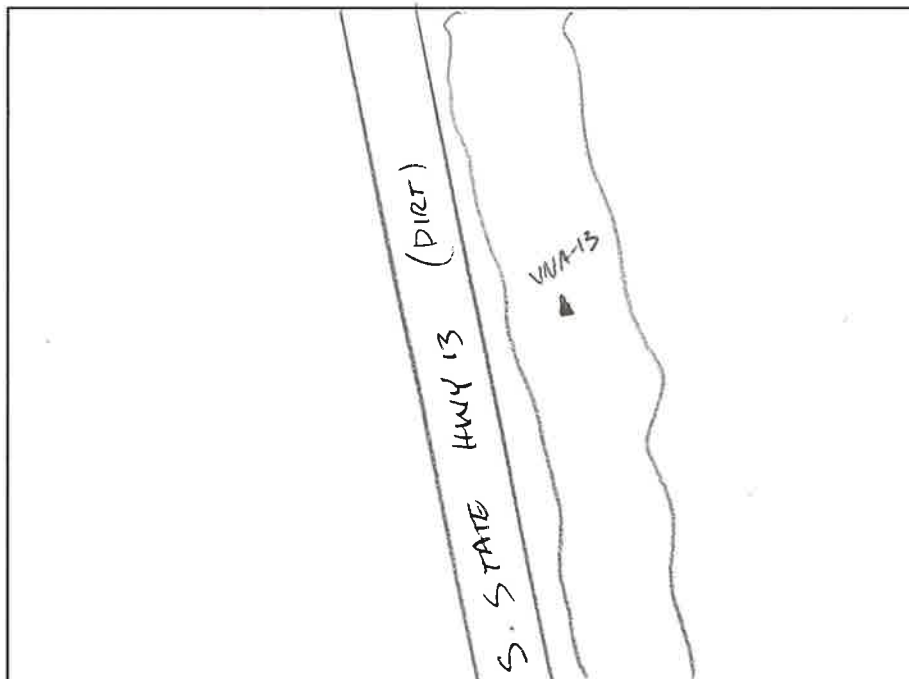
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3/11/16 TIME: 0858 AM/PM

RE-CHECK PT. NUMBER: VVA-13CHK



SKETCH AREA

#### DESCRIPTION OF POINT:

60-D NAIL





PREBLE-RISH INC  
CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/10/16 TIME: 1445 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-14 P1071

STATE: Florida LATITUDE: 28°20'20.10876" LONGITUDE: 81°05'41.39887"

ADDRESS and/or INTERSECTION: S STATE HWY 13

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.02 V: 0.03 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

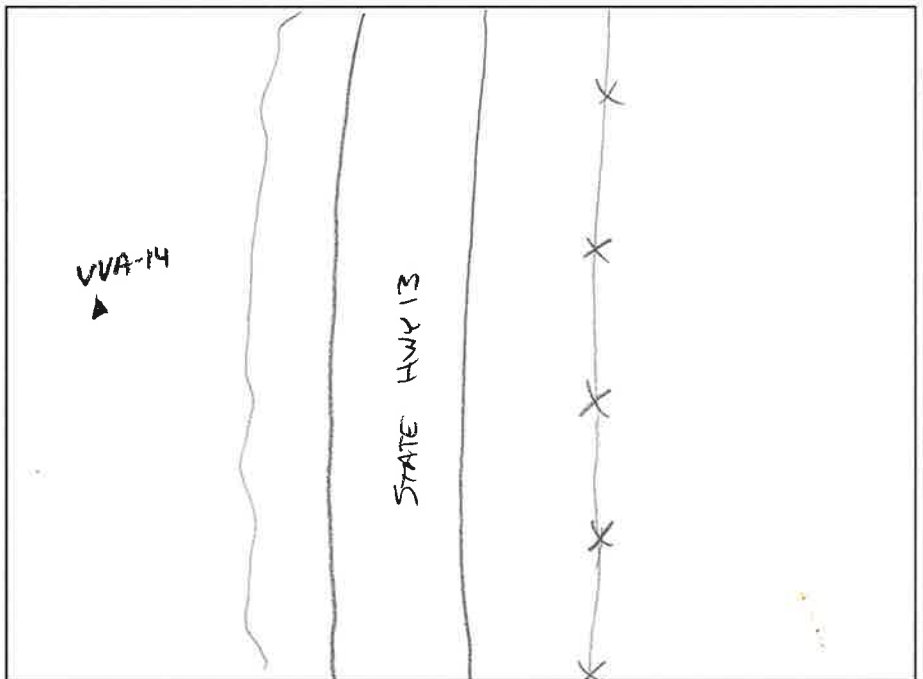
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3/14/16 TIME: 0916 AM/PM

RE-CHECK PT. NUMBER: VVA-14 CHK  
P1081



SKETCH AREA

#### DESCRIPTION OF POINT:

60-D NAIL





**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/10/16 TIME: 1545 AM/PM EMPLOYEE NAME: Milo Kolberg  
JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-15 PT 1073  
STATE: Florida LATITUDE: 28°20'11.07317" LONGITUDE: 81°01'41.77864"  
ADDRESS and/or INTERSECTION: N/A

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.02 V: 0.03 DURATION: 3 MINS  
☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_  
☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_  
☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

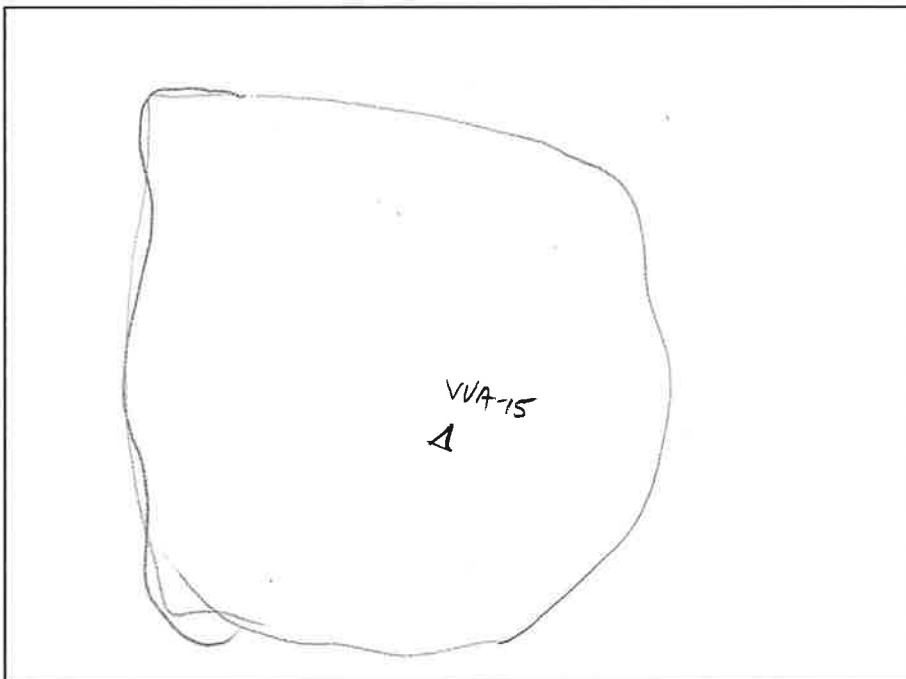
☐ Non-Vegetated Vertical Accuracy (NVA-#)  
☒ Vegetated Vertical Accuracy (VVA-#)

**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3/11/16 TIME: 1006 AM/PM  
RE-CHECK PT. NUMBER: VVA-15 CHK  
1082



SKETCH AREA

**DESCRIPTION OF POINT:**

60-D NAIL





PREBLE-RISH INC  
CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/10/16 TIME: 1600 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-16 PT 1075

STATE: Florida LATITUDE: 28°20'34.50332" LONGITUDE: 80°59'40.84967"

ADDRESS and/or INTERSECTION: N/A

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.02 V: 0.03 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

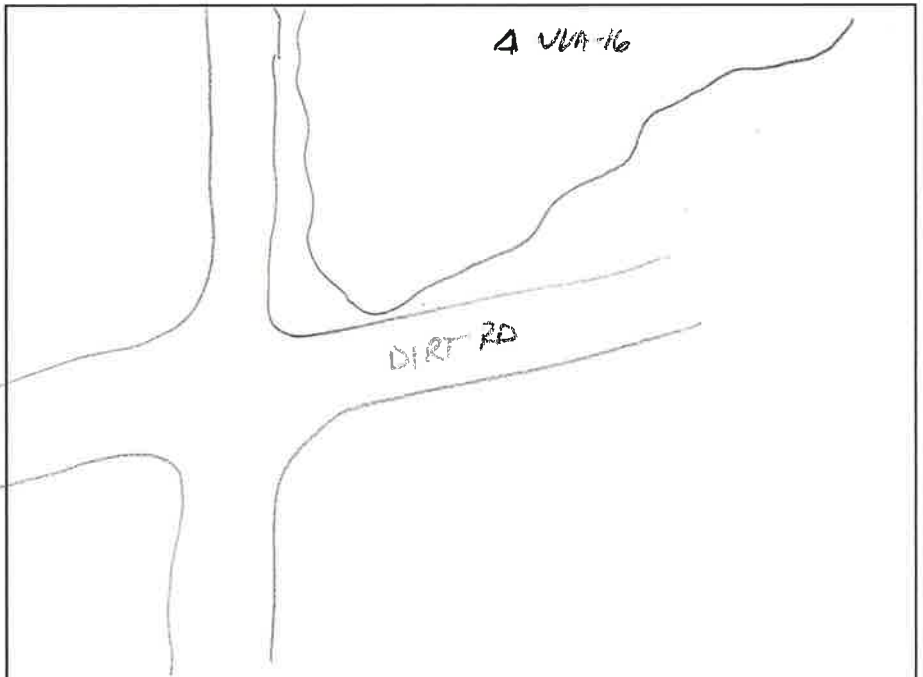
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3/11/16 TIME: 1040 AM/PM

RE-CHECK PT. NUMBER: VVA-16 CHK



SKETCH AREA

#### DESCRIPTION OF POINT:

60-D NAIL





PREBLE-RISH INC  
CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-17 PT1086

STATE: Florida LATITUDE: 28°17'28.88885" LONGITUDE: 80°52'38.84225"

ADDRESS and/or INTERSECTION: K-6 Ln

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.02 V: 0.04 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

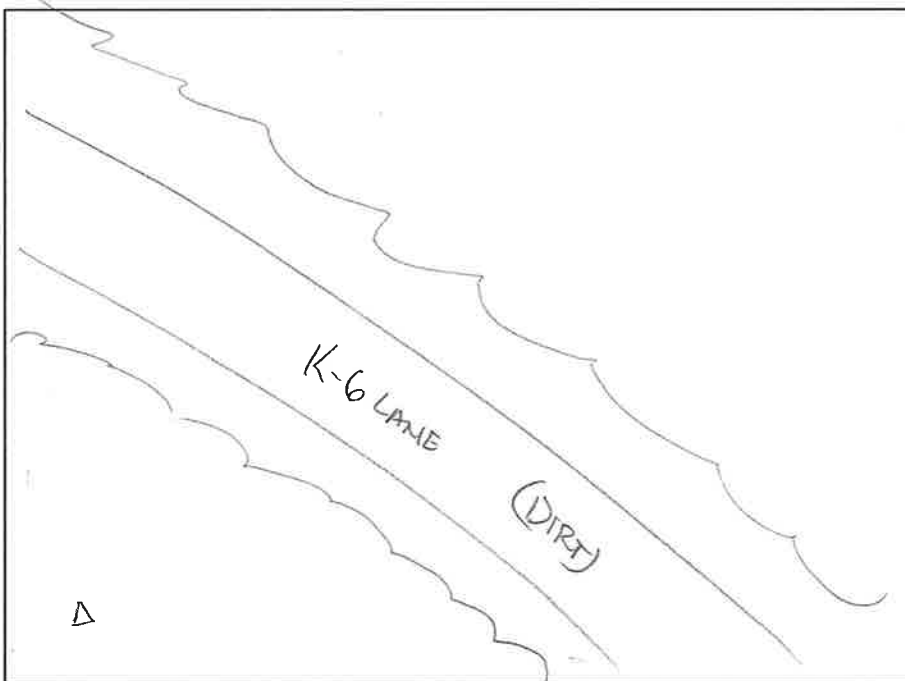
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3/12/16 TIME: 0845 AM/PM

RE-CHECK PT. NUMBER: VVA-17 CHK  
PT1093



SKETCH AREA

#### DESCRIPTION OF POINT:

60-~~1~~ NAIL





# **GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/11/16 TIME: 1500 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-18 Pt 1088

STATE: Florida LATITUDE: 28° 15' 32" 95795 LONGITUDE: 80° 52' 17.91580

ADDRESS and/or INTERSECTION: PASTURE

## **OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## **TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

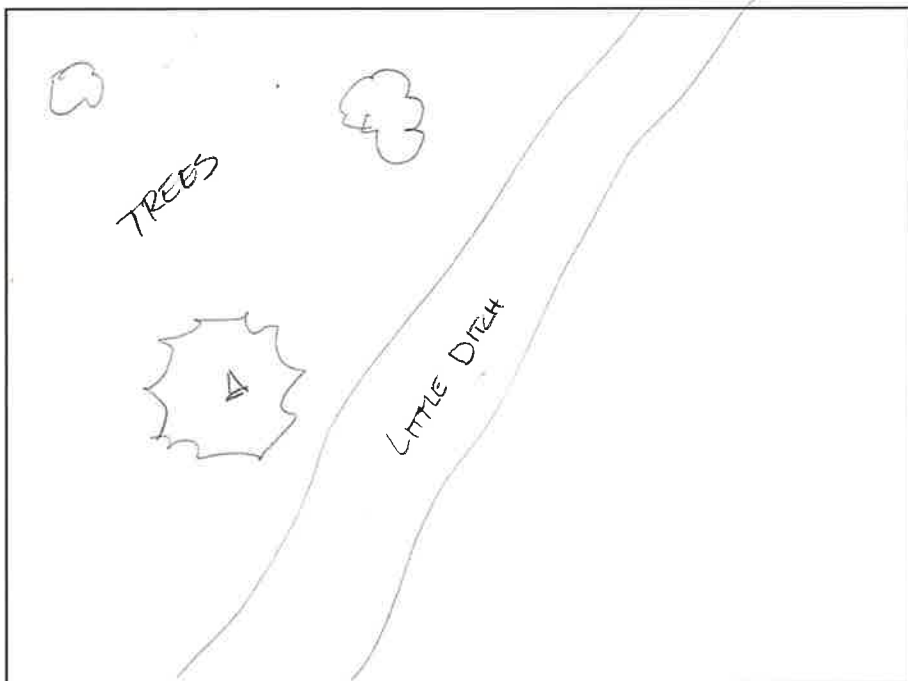
## **PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

## **POINT RE-CHECK:**

DATE: 3/12/16 TIME: 0955 AM/PM

RE-CHECK PT. NUMBER: VVA-18 CHK  
Pt 1095



SKETCH AREA

## **DESCRIPTION OF POINT:**

60-D NAIL





**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/11/16 TIME: 1629 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-19 PT. 10A

STATE: Florida LATITUDE: 28° 13' 01.3710" LONGITUDE: 80° 52' 34.49945"

ADDRESS and/or INTERSECTION: PASTURE

**OBSERVATION METHOD:**

☐ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.03 DURATION: 3 mins

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

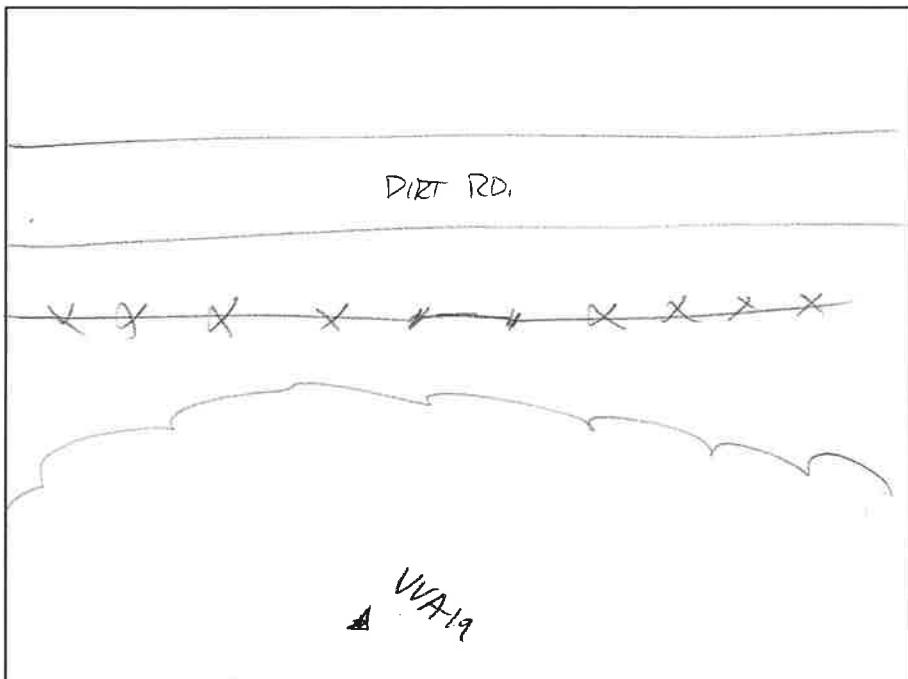
DATE: 3/12/17 TIME: 1117 AM/PM

RE-CHECK PT. NUMBER: VVA-19 CHK

PT 10A

**DESCRIPTION OF POINT:**

60-D NAIL



SKETCH AREA





**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/14/16 TIME: 1713 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-20 R1090

STATE: Florida LATITUDE: 28°12'18.97798" LONGITUDE: 80°54'31.15037

ADDRESS and/or INTERSECTION: GATOR BRANCH RD

**OBSERVATION METHOD:**

☐ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3mins

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

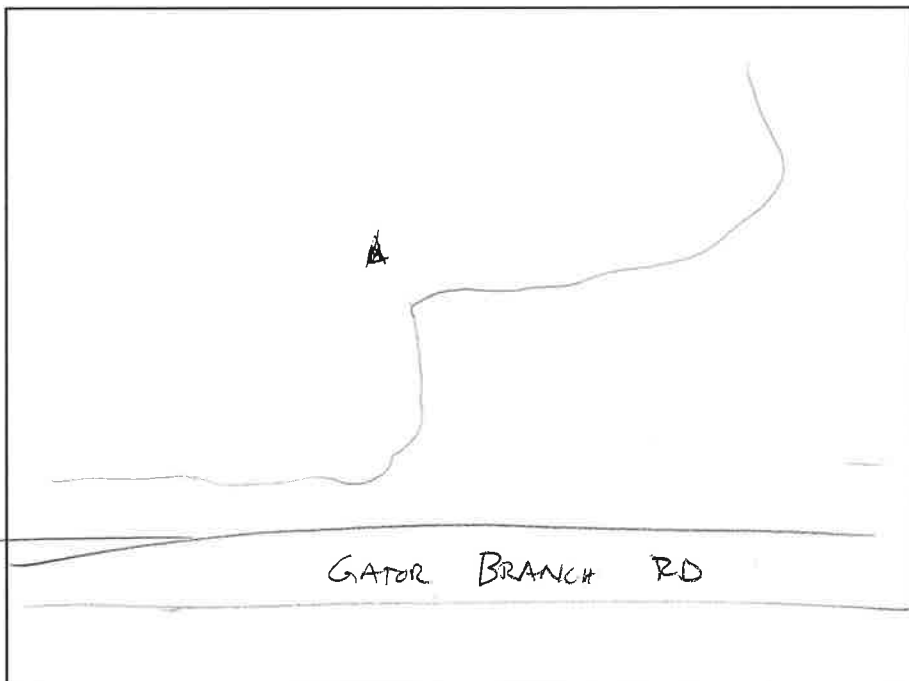
**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3/12/16 TIME: 1146 AM/PM

RE-CHECK PT. NUMBER: VVA-20 CHK



**SKETCH AREA**

**DESCRIPTION OF POINT:**

60-D NAIL





# GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/12/16 TIME: 1445 AM/PM EMPLOYEE NAME: Milo Kolberg  
 JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-21 P1102  
 STATE: Florida LATITUDE: 28°10'20.96859" LONGITUDE: 80°53'56.92555"  
 ADDRESS and/or INTERSECTION: DEER PARK RD

## OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3 MIN  
☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
 PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
 (20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
 PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_  
☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_  
☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)  
☒ Vegetated Vertical Accuracy (VVA-#)

## PICTURES:

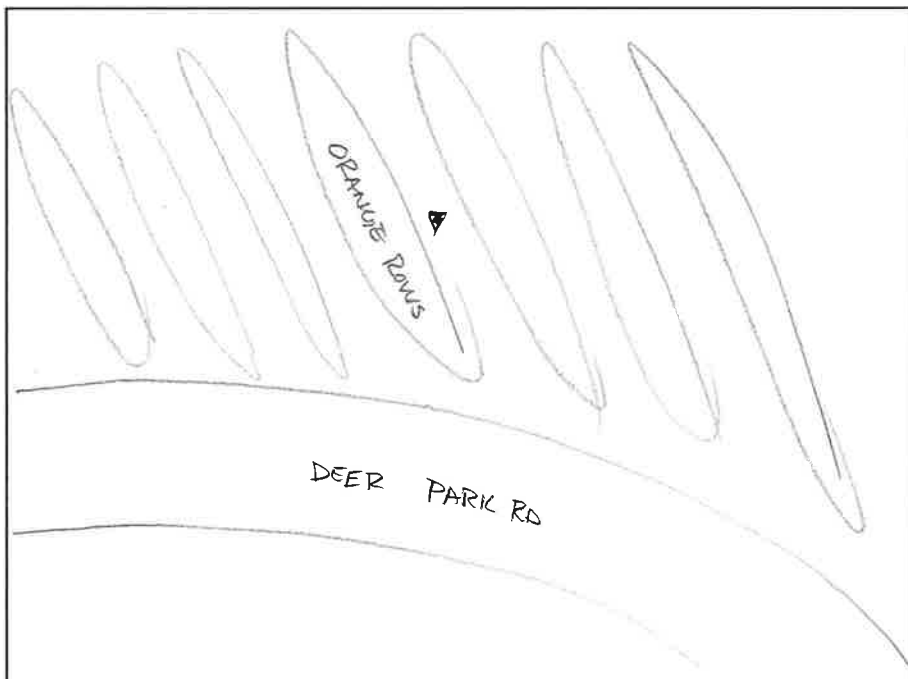
☒ PICTURE(S) OF AREA & SETUP

## POINT RE-CHECK:

DATE: 3/13/16 TIME: 1026 AM/PM  
 RE-CHECK PT. NUMBER: VVA-21-CHK  
P1111

## DESCRIPTION OF POINT:

60-D NAIL



SKETCH AREA





# **GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/12/16 TIME: 1524 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-22 Pt. 1103

STATE: Florida LATITUDE: 28°10'40.03237 LONGITUDE: 80°56'06.00066

ADDRESS and/or INTERSECTION: PASTURE

## **OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## **TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

## **PICTURES:**

☐ PICTURE(S) OF AREA & SETUP

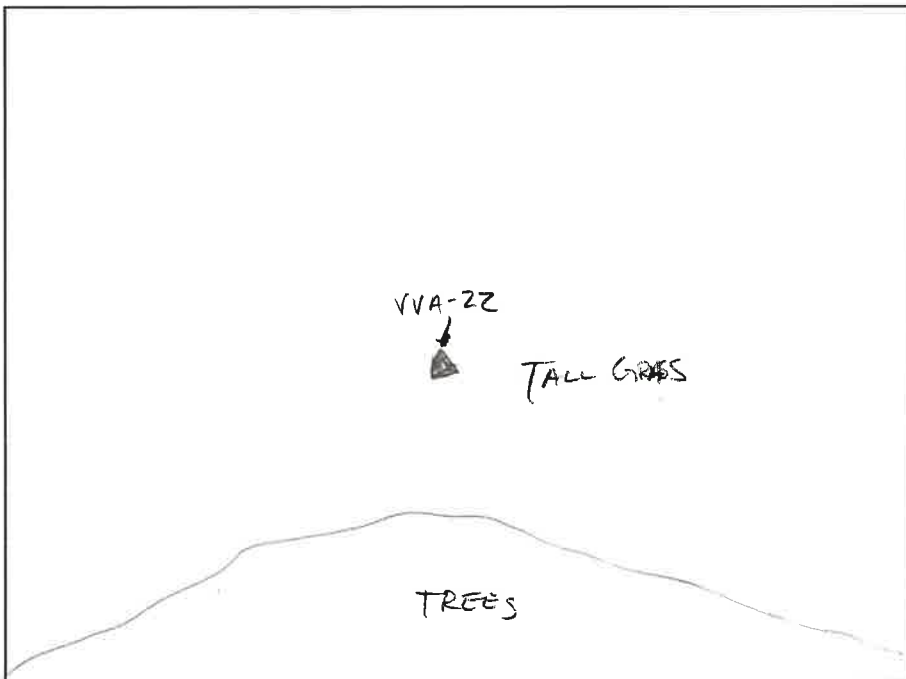
## **POINT RE-CHECK:**

DATE: 3/13/16 TIME: 0930 AM/PM

RE-CHECK PT. NUMBER: VVA-22 CHK  
Pt 1109

## **DESCRIPTION OF POINT:**

60-D NAIL



SKETCH AREA





**PREBLE-RISH INC**  
CONSULTING ENGINEERS & SURVEYORS

**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/12/17 TIME: 1704 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-23 PT1104

STATE: Florida LATITUDE: 28°11'12.53875" LONGITUDE: 80°52'37.28727"

ADDRESS and/or INTERSECTION: DESERET LN

**OBSERVATION METHOD:**

☐ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 mins

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

- ☐ Non-Vegetated Vertical Accuracy (NVA-#)
- ☐ Vegetated Vertical Accuracy (VVA-#)

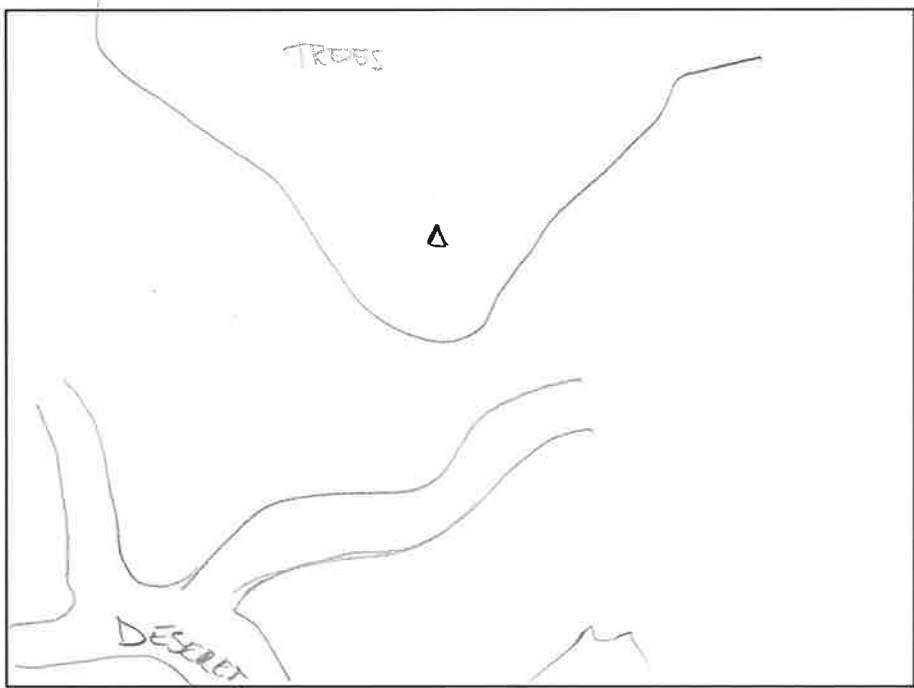
**PICTURES:**

☐ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3/13/16 TIME: 1012 AM/PM

RE-CHECK PT. NUMBER: VVA-23 CHK  
PT110



**SKETCH AREA**

**DESCRIPTION OF POINT:**

60-D NAIL





### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/13/17 TIME: 1207 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-24 PT1166

STATE: Florida LATITUDE: 28° 07'44.89132" LONGITUDE: 80° 59'44.62105"

ADDRESS and/or INTERSECTION: HWY 192

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

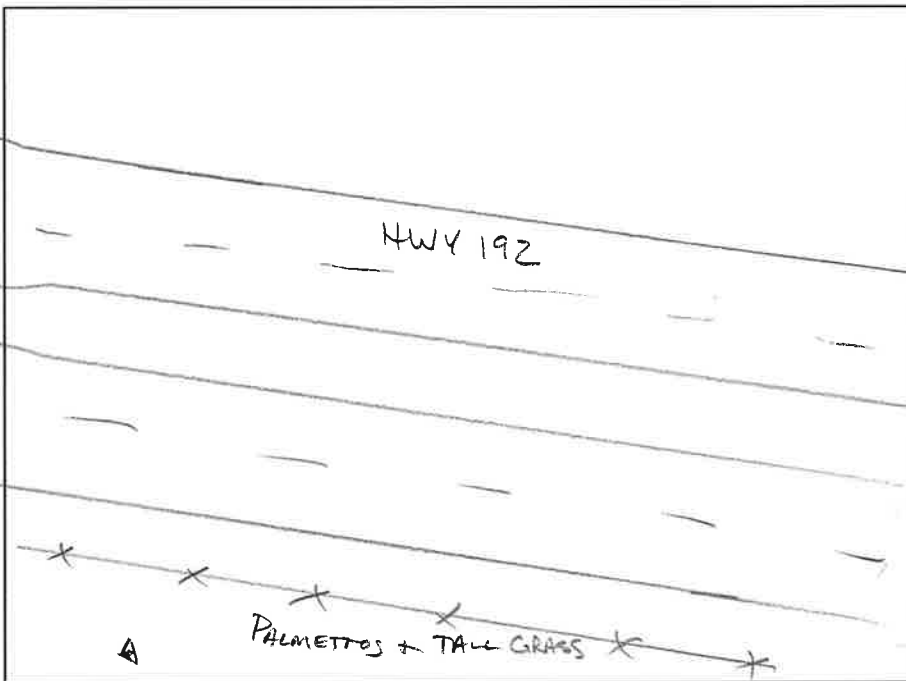
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3/14/16 TIME: 0857 AM/PM

RE-CHECK PT. NUMBER: VVA-24 CHK  
PT1132



SKETCH AREA

#### DESCRIPTION OF POINT:

60-D NAIL





# **GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/13/16 TIME: 1250 AM/PM EMPLOYEE NAME: Milo Kolberg  
 JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-25 PR1118  
 STATE: Florida LATITUDE: 28°07'42.24300" LONGITUDE: 81°03'15.57956"  
 ADDRESS and/or INTERSECTION: END OF PIERRE AVE

## **OBSERVATION METHOD:**

☐ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3 MINS  
☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
 PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
 (20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
 PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_  
☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_  
☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## **TYPE OF LAND COVER:**

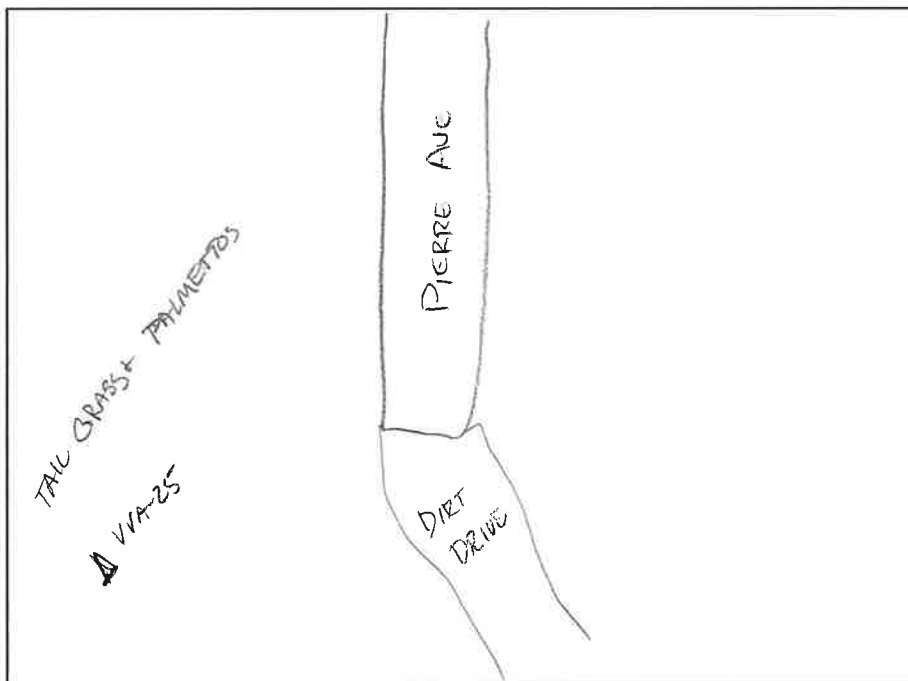
☐ Non-Vegetated Vertical Accuracy (NVA-#)  
☐ Vegetated Vertical Accuracy (VVA-#)

## **PICTURES:**

☐ PICTURE(S) OF AREA & SETUP

## **POINT RE-CHECK:**

DATE: 3/14/16 TIME: 0821 AM/PM  
 RE-CHECK PT. NUMBER: VVA-25 CHK  
PR1130



SKETCH AREA

## **DESCRIPTION OF POINT:**

60-D NAIL





# GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/13 TIME: 1503 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-26

STATE: Florida LATITUDE: 28°12'34.73792" LONGITUDE: 81°04'18.66815

ADDRESS and/or INTERSECTION: PASTURE

## OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

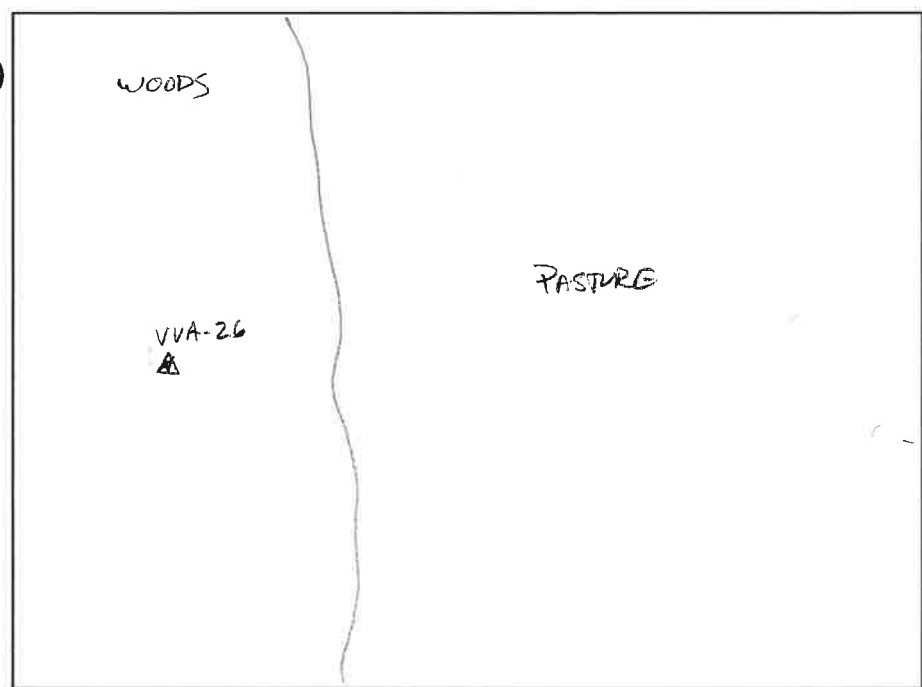
## PICTURES:

☒ PICTURE(S) OF AREA & SETUP

## POINT RE-CHECK:

DATE: 3/14/16 TIME: 1200 AM/PM

RE-CHECK PT. NUMBER: VVA-26 CHK  
R 1137



SKETCH AREA

## DESCRIPTION OF POINT:

60-D NAIL



**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/13/16 TIME: 1600 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: 11VA-27 PT1122

STATE: Florida LATITUDE: 28°10'59.95422" LONGITUDE: 81°03'43.42979

ADDRESS and/or INTERSECTION: PASTURE

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.03 V: 0.05 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

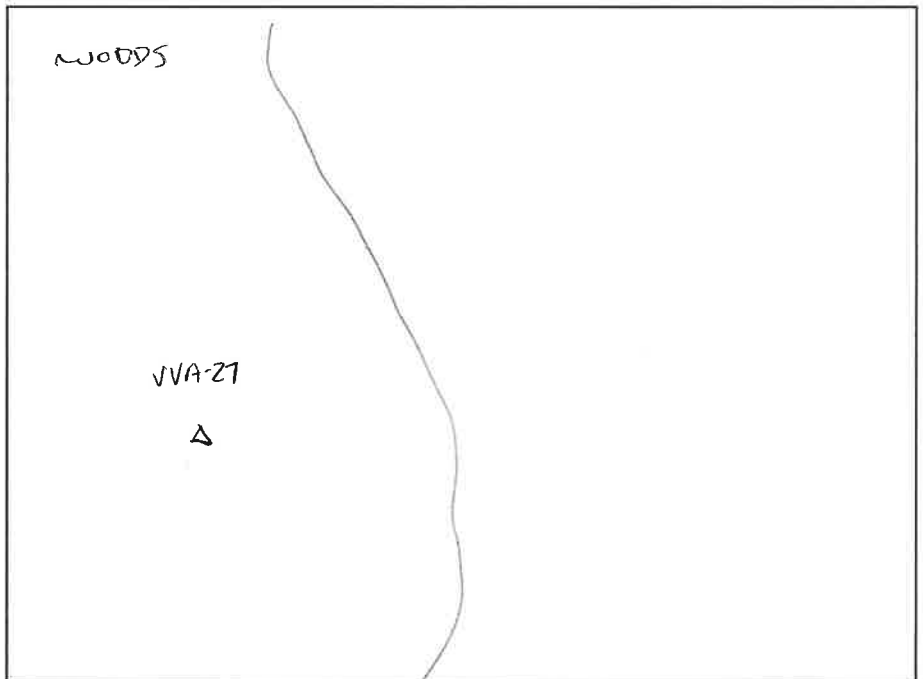
**POINT RE-CHECK:**

DATE: 3/14/16 TIME: 1130 AM/PM

RE-CHECK PT. NUMBER: VVA-27 CH#  
PT1136

**DESCRIPTION OF POINT:**

60-D NAIL



SKETCH AREA



**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/13/16 TIME: 1714 AM/PM EMPLOYEE NAME: Milo Kolberg  
JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-28 PT 1123  
STATE: Florida LATITUDE: 28°13'04.00986 LONGITUDE: 81°01'29.08822  
ADDRESS and/or INTERSECTION: Pasture

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_  
☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_  
☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

- ☐ Non-Vegetated Vertical Accuracy (NVA-#)  
☒ Vegetated Vertical Accuracy (VVA-#)

**PICTURES:**

☐ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3/14/16 TIME: 1055 AM/PM

RE-CHECK PT. NUMBER: VVA-28 CHK

WHEAT FIELD

SKETCH AREA

**DESCRIPTION OF POINT:**

60-D NAIL



**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/13/16 TIME: 1736 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-29

STATE: Florida LATITUDE: 28°12'09.39292 LONGITUDE: 80°58'19.33046

ADDRESS and/or INTERSECTION: PASTURE

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3/14/16 TIME: 1035 AM/PM

RE-CHECK PT. NUMBER: VVA-29CHK

PT 1134

**DESCRIPTION OF POINT:**

60-D NAIL

BUSHES IN PASTURE

VVA-29

A

SKETCH AREA



**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/13/16 TIME: 1803 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-30 PT1125

STATE: Florida LATITUDE: 28°10'35.61420" LONGITUDE: 80°59'14.42901"

ADDRESS and/or INTERSECTION: PASTURE

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

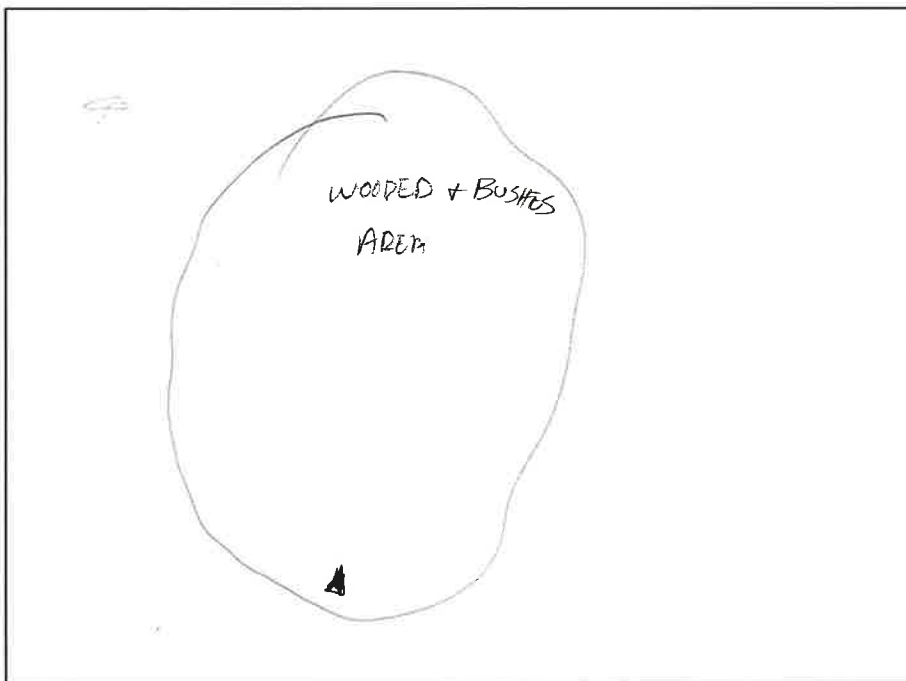
**PICTURES:**

☐ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3/14/16 TIME: 1001 AM/PM

RE-CHECK PT. NUMBER: VVA-30 CHK  
PT1033



SKETCH AREA

**DESCRIPTION OF POINT:**

60-D NAIL





GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/14/16 TIME: 1320 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-31 A1139

STATE: Florida LATITUDE: 28°04'56.12005" LONGITUDE: 81°04'13.47408"

ADDRESS and/or INTERSECTION: N. KENANSVILLE RD

OBSERVATION METHOD:

☒ VRS GPS RMS: H: 0.03 V: 0.05 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: AM/PM END: AM/PM

☐ CONVENTIONAL PT. No. RMS: H: V: DURATION:  
PT. No. RMS: H: V: DURATION:

(20 MIN) PT. No. START TIME: AM/PM END: AM/PM  
PT. No. START TIME: AM/PM END: AM/PM

☐ OCCUPIED #/HT: / ☐ BS #/HT: / ☐ FS #/HT: /  
☐ BACK SITE DISTANCE: ☐ ANGLE: ☐ FS DISTANCE  
☐ FS ANGLE: VERT. ANG: SLOPE DIST.: HORZ. DIST.:

TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)  
☒ Vegetated Vertical Accuracy (VVA-#)

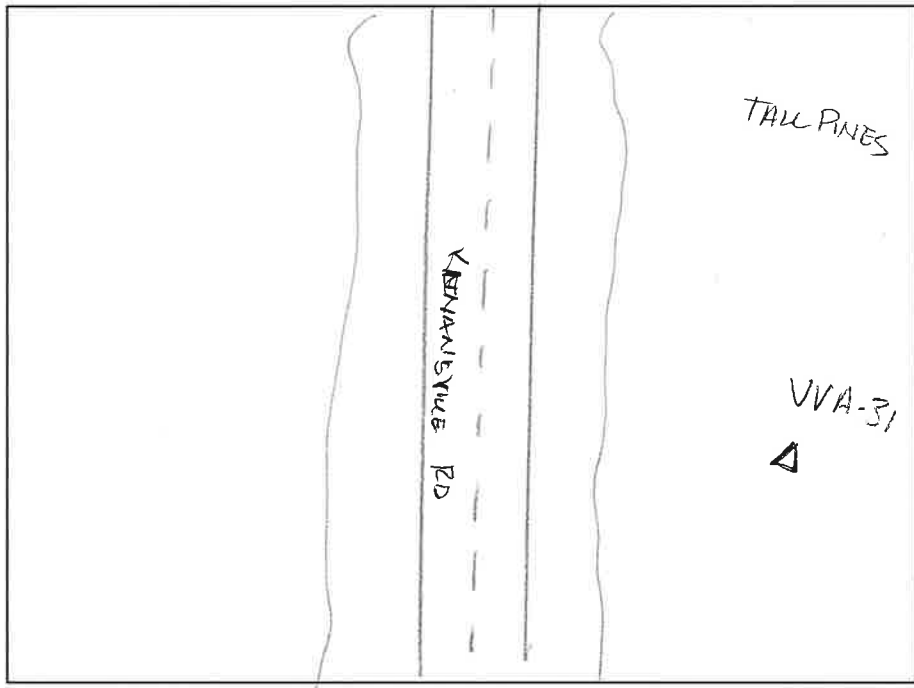
PICTURES:

☐ PICTURE(S) OF AREA & SETUP

POINT RE-CHECK:

DATE: 3/15/16 TIME: 0855 AM/PM

RE-CHECK PT. NUMBER: VVA-31-CHK



SKETCH AREA

DESCRIPTION OF POINT:

60-D NAIL





PREBLE-RISH INC.  
CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/14/16 TIME: 1430 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-32 P+1142

STATE: Florida LATITUDE: 27° 59' 44.26557" LONGITUDE: 81° 01' 08.09828"

ADDRESS and/or INTERSECTION: N. KENANSVILLE RD

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

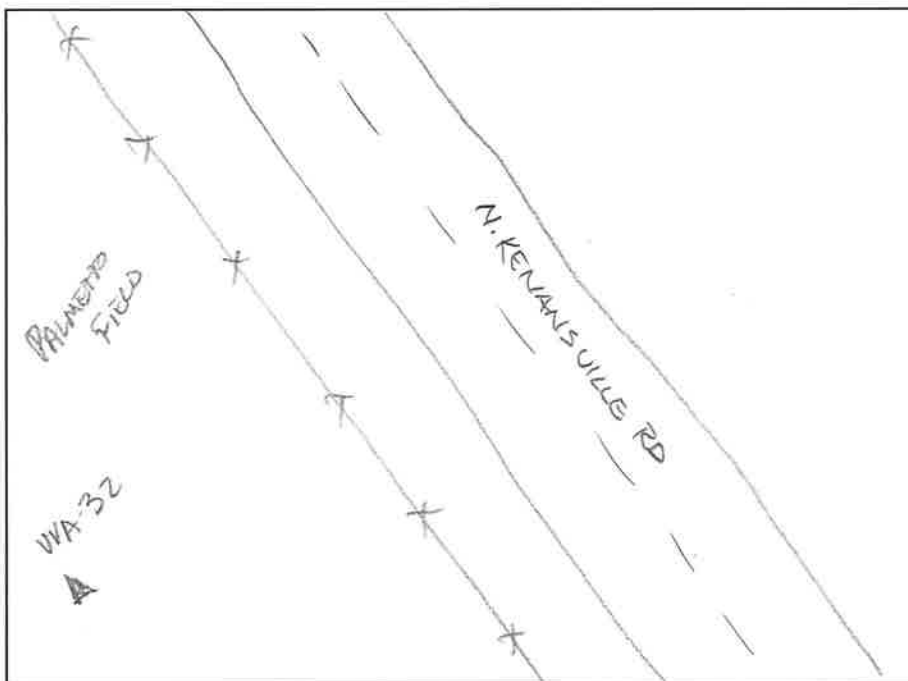
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3/15/16 TIME: 0949 AM/PM

RE-CHECK PT. NUMBER: VVA-32 CHK



SKETCH AREA

#### DESCRIPTION OF POINT:

60-D NAIL



**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/16/16 TIME: 1003 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-33

STATE: Florida LATITUDE: 28° 02' 28.23297" LONGITUDE: 80° 56' 56.19915"

ADDRESS and/or INTERSECTION: PASTURE

**OBSERVATION METHOD:**

☐ VRS GPS RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

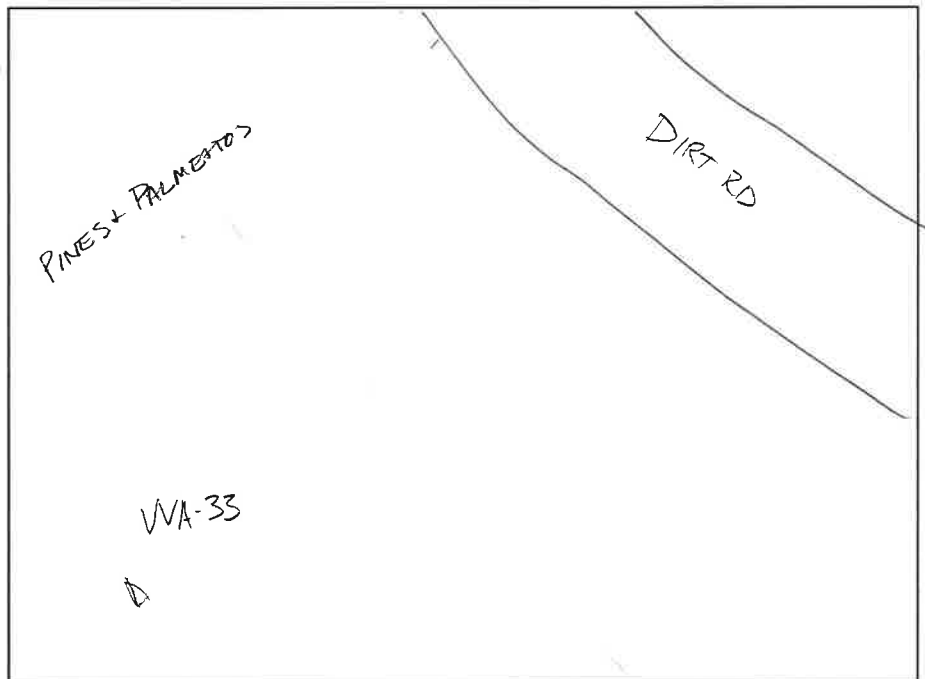
**POINT RE-CHECK:**

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_

**DESCRIPTION OF POINT:**

60D NAIL



**SKETCH AREA**



**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/14/16 TIME: 1613 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: UVA-34 PT 1145

STATE: Florida LATITUDE: 27° 57' 50.59257" LONGITUDE: 80° 58' 15.40376"

ADDRESS and/or INTERSECTION: 10 MILE RD

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.02 V: 0.03 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

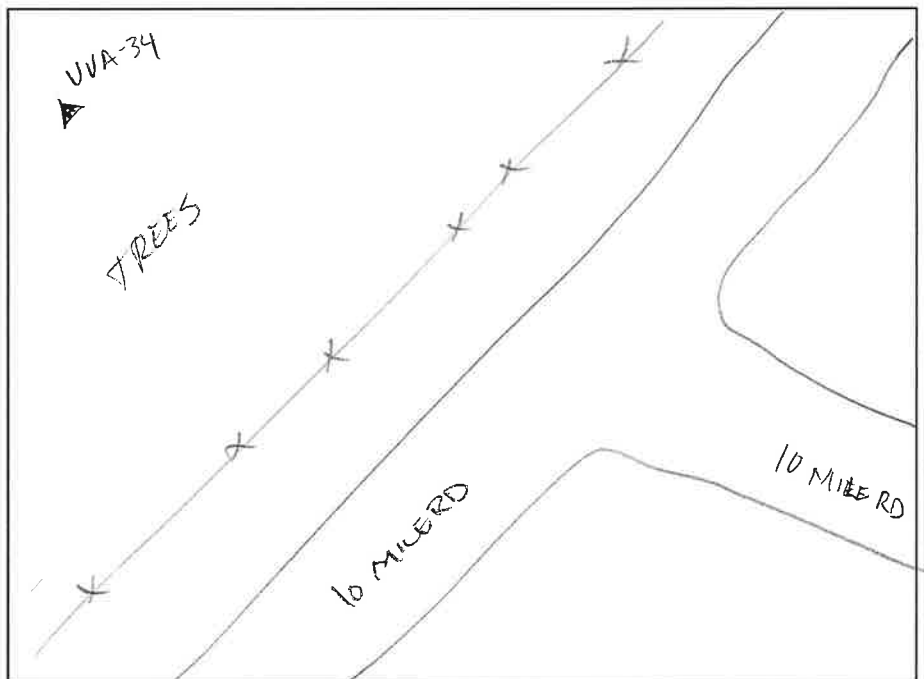
**PICTURES:**

☐ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3/15/16 TIME: 1135 AM/PM

RE-CHECK PT. NUMBER: UVA-34 CHK



SKETCH AREA

**DESCRIPTION OF POINT:**

60-1D - NAIL





PREBLE-RISH INC  
CONSULTING ENGINEERS & SURVEYORS

**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/14/16 TIME: 1708 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-35 PT1146

STATE: Florida LATITUDE: 27° 54' 32.72224" LONGITUDE: 80° 54' 10.33552

ADDRESS and/or INTERSECTION: PASTURE

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_  
☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_  
☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)  
☒ Vegetated Vertical Accuracy (VVA-#)

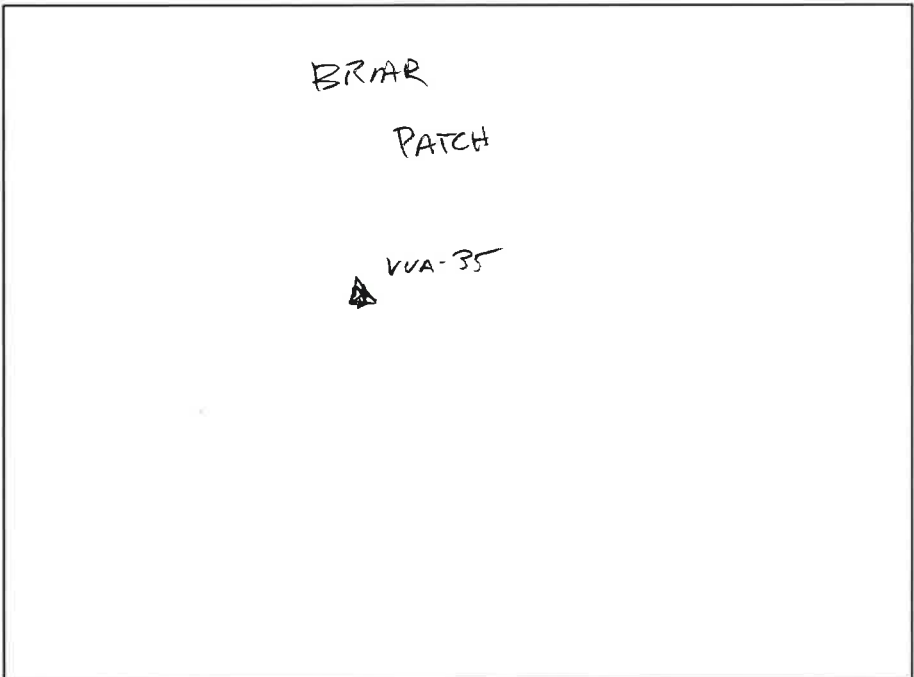
**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3/15/16 TIME: 1210 AM/PM

RE-CHECK PT. NUMBER: VVA-35



SKETCH AREA

**DESCRIPTION OF POINT:**

60-D NAIL





# GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-16-16 TIME: 1:33 AM/PM (PM) EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 36

STATE: Florida LATITUDE: \_\_\_\_\_ LONGITUDE: \_\_\_\_\_

ADDRESS and/or INTERSECTION: \_\_\_\_\_

## OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

## PICTURES:

☒ PICTURE(S) OF AREA & SETUP

## POINT RE-CHECK:

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_

## DESCRIPTION OF POINT:

GOOD IN ORANGE GROVE

X

EDGE OF ORANGE GROVE

~~~~~

SKETCH AREA



### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-7-16 TIME: 4:38 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 37

STATE: Florida LATITUDE: 28°19'45.18250"N LONGITUDE: 81°38'53.64496"W

ADDRESS and/or INTERSECTION: ROCELLA & WESTSIDE BVD

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3 1/2 MIN.

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
 PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
 PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

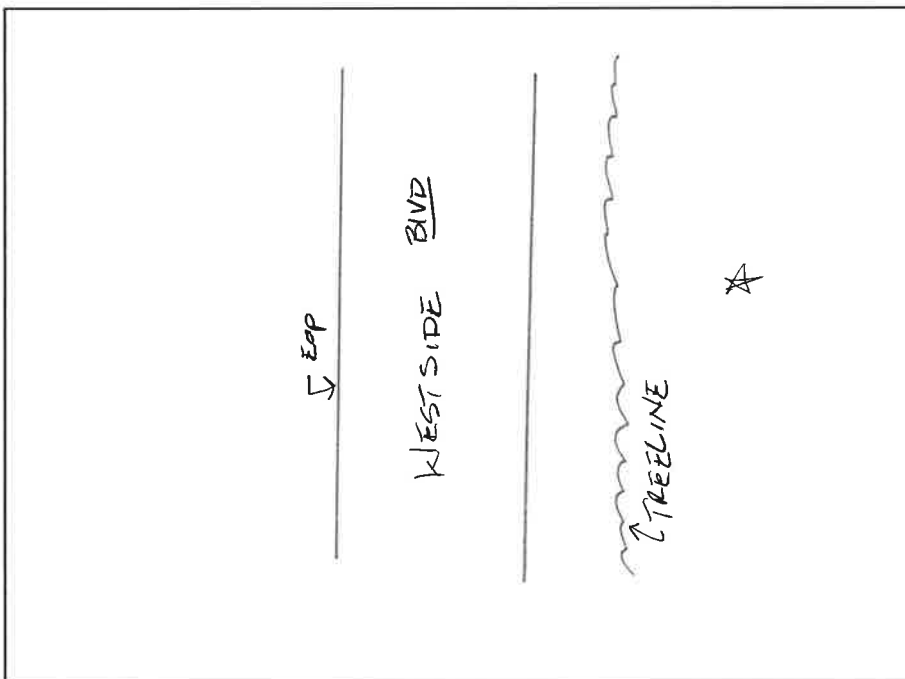
**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3-8-16 TIME: 10:55 AM/PM

RE-CHECK PT. NUMBER: VVA37-12CHK



SKETCH AREA

**DESCRIPTION OF POINT:**

POD IN OPEN AREA WITH TALL GRASS





# **GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3-8-16 TIME: 12:57 AM/PM (PM) EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 38

STATE: Florida LATITUDE: 28°15'43.40678"N LONGITUDE: 81°34'22.14665"W

ADDRESS and/or INTERSECTION: 100± N. OF GAS EASEMENT

## **OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.02' V: 0.04' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## **TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

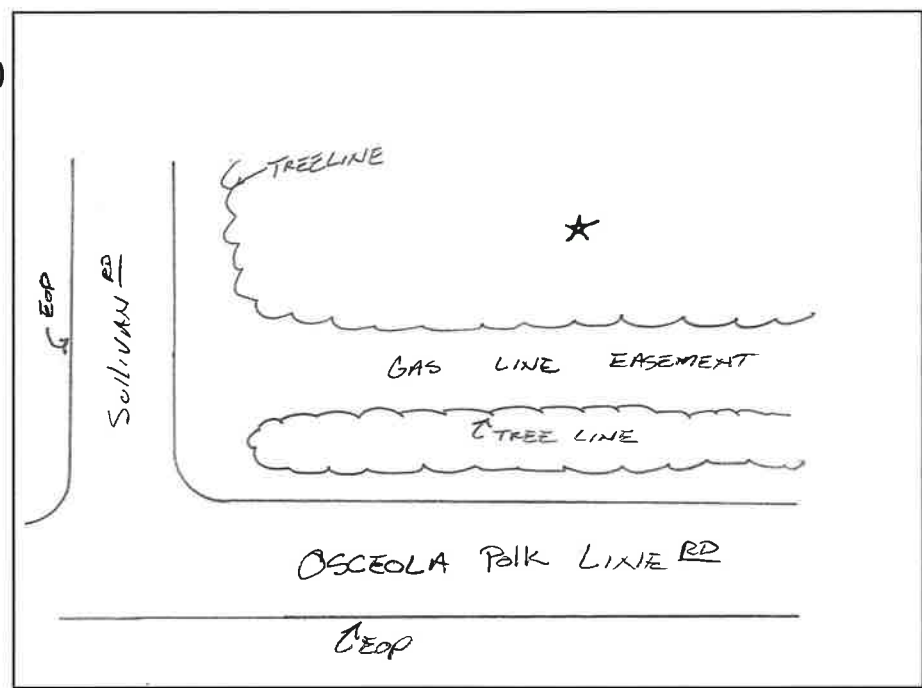
## **PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

## **POINT RE-CHECK:**

DATE: 3-9-16 TIME: 9:10 AM/PM (AM)

RE-CHECK PT. NUMBER: VVA 38 CHK



**SKETCH AREA**

## **DESCRIPTION OF POINT:**

600 IN WOODED AREA





PREBLE-RISH INC.  
CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-9-16 TIME: 4:58 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 39

STATE: Florida LATITUDE: 28° 08' 15.9745" N LONGITUDE: 81° 21' 48.27666" W

ADDRESS and/or INTERSECTION: BOBBY CREEK BOAT RAMP

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01' V: 0.02' DURATION: 3 MIN.

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

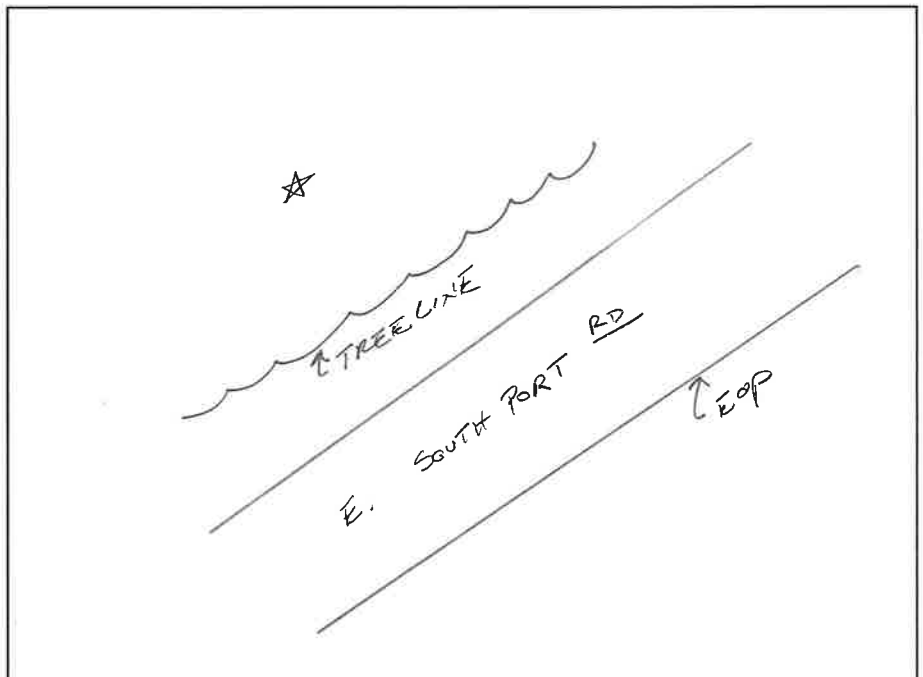
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3-10-16 TIME: 11:37 AM/PM AM

RE-CHECK PT. NUMBER: VVA39-CHK



SKETCH AREA

#### DESCRIPTION OF POINT:

POD IN GRASS AREA AROUND TALL OAKS





**PREBLE-RISH INC.**  
CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-10-16 TIME: 9:40 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 40

STATE: Florida LATITUDE: 28°05'25.24251"N LONGITUDE: 81°24'55.5216" W

ADDRESS and/or INTERSECTION: TRAIL ON DISNEY PRESERVE

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01' V: 0.02' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

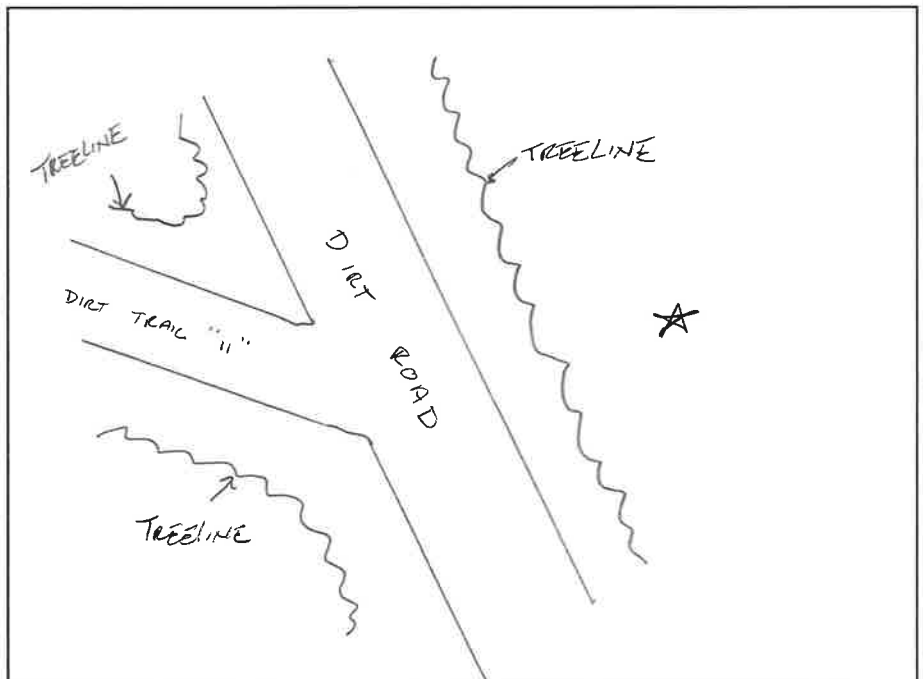
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3-10-16 TIME: 2:28 AM/PM

RE-CHECK PT. NUMBER: VVA 40 CHK



SKETCH AREA

#### DESCRIPTION OF POINT:

WOOD IN LIGHT VEGETATION





PREBLE-RISH INC.  
CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-10-16 TIME: 11:10 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 41

STATE: Florida LATITUDE: 28° 05' 16.66725" N LONGITUDE: 81° 21' 41.16682" W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.02' V: 0.03' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

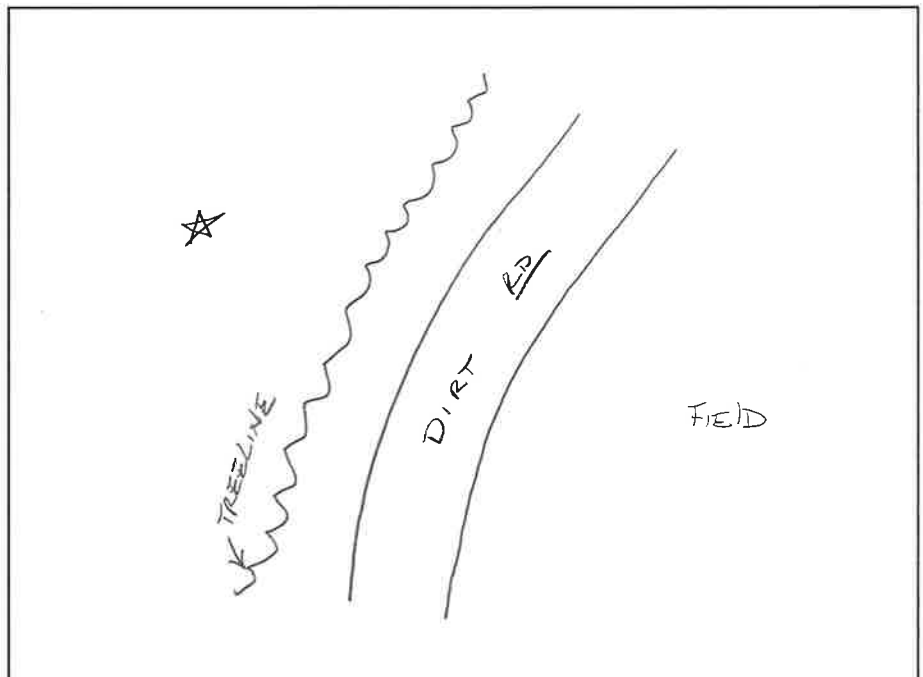
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3-10-16 TIME: 3:15 AM/PM

RE-CHECK PT. NUMBER: VVA41-CHK



SKETCH AREA

#### DESCRIPTION OF POINT:

600 IN TALL OAKS





**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3-11-16 TIME: 9:23 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 42

STATE: Florida LATITUDE: 28°22'44.48246"N LONGITUDE: 81°34'09.75114"W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01' V: 0.02' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

- ☒ Non-Vegetated Vertical Accuracy (NVA-#)
- ☐ Vegetated Vertical Accuracy (VVA-#)

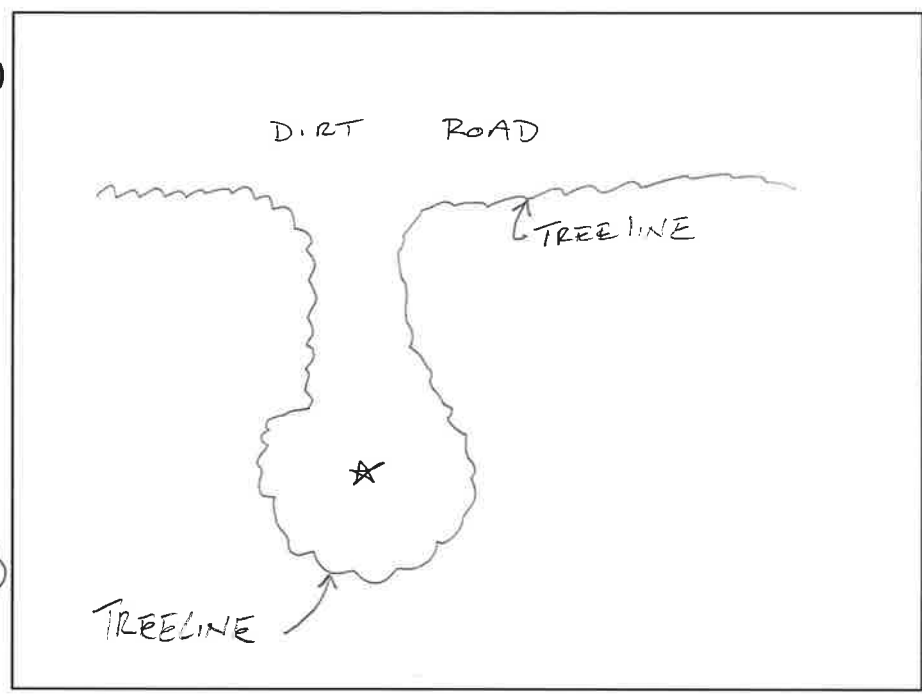
**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3-1-16 TIME: 1:25 AM/PM

RE-CHECK PT. NUMBER: VVA42-CHK



**SKETCH AREA**

**DESCRIPTION OF POINT:**

POD IN CLEARED AREA OF WOODS





PREBLE-RISH INC  
CONSULTING ENGINEERS & SURVEYORS

**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3-11-16 TIME: 9:50 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 43

STATE: Florida LATITUDE: 28°23'26.43018"N LONGITUDE: 81°37'12.99301"W

ADDRESS and/or INTERSECTION: FLAMINGO CROSSING BLVD

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.02 V: 0.03 DURATION: 3 MIN.

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

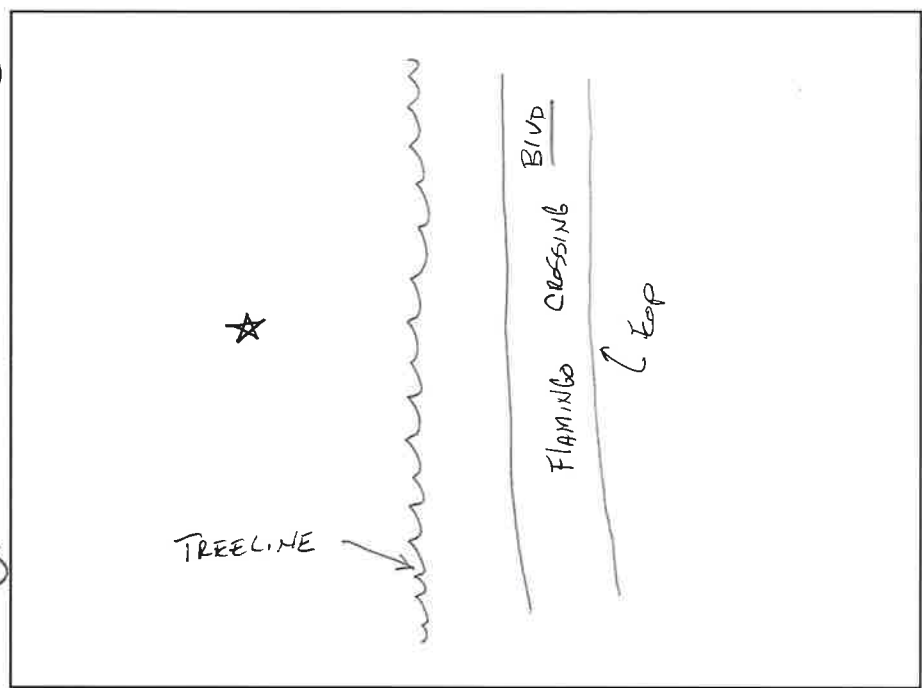
**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3-11-16 TIME: 1:51 AM/PM

RE-CHECK PT. NUMBER: VVA43-CHK



**SKETCH AREA**

**DESCRIPTION OF POINT:**

60D IN TALL GRASS IN LIGHTLY IRRIGATED AREA





PREBLE-RISH INC.  
CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-12-16 TIME: 8:33 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA44

STATE: Florida LATITUDE: 28°02'37.97883"N LONGITUDE: 81°13'16.44726"W

ADDRESS and/or INTERSECTION: N. CANOE CREEK RD

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01' V: 0.01' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

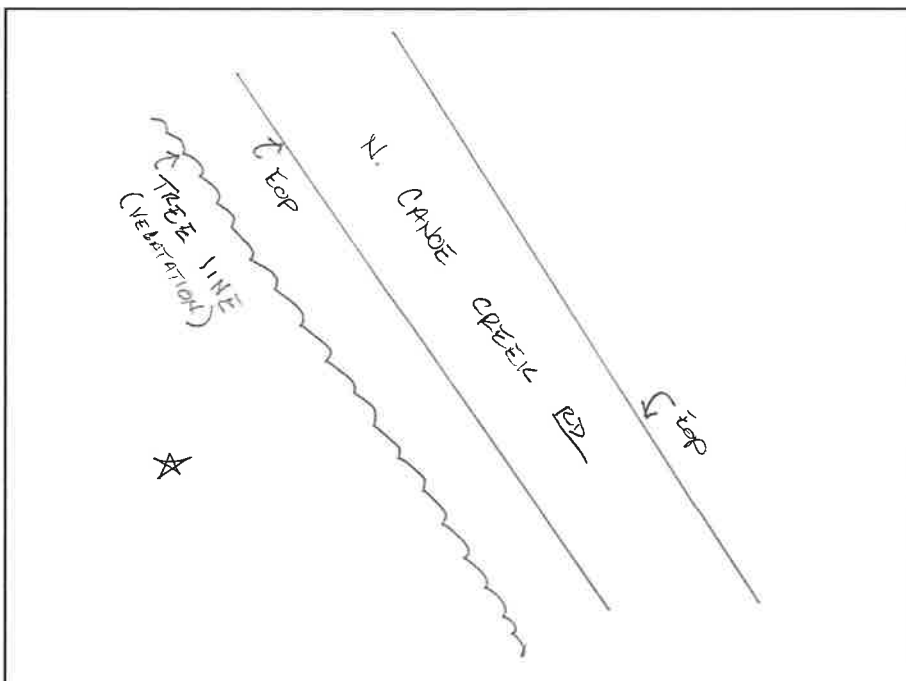
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3-12-16 TIME: 2:29 AM/PM

RE-CHECK PT. NUMBER: VVA44-CHK



SKETCH AREA

#### DESCRIPTION OF POINT:

GOOD IN LIGHT WOODS WITH TALL PINE TREES





# GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-12-16 TIME: 9:05 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA45

STATE: Florida LATITUDE: 27°57'17.18912"N LONGITUDE: 81°08'36.94066"W

ADDRESS and/or INTERSECTION: N. CANOE CREEK RD

## OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01' V: 0.01' DURATION: 3 MIN.

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

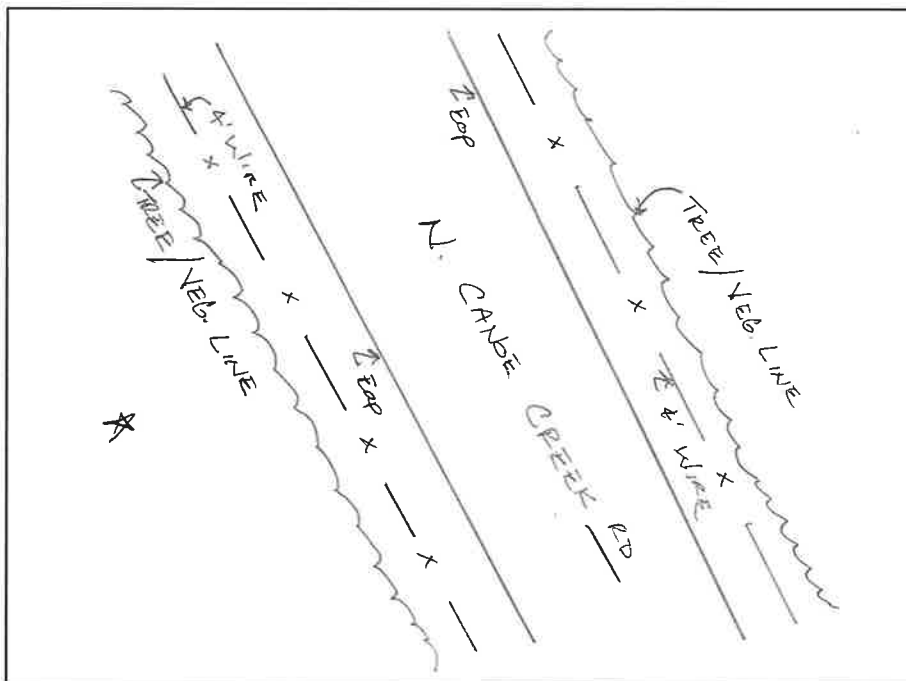
## PICTURES:

☒ PICTURE(S) OF AREA & SETUP

## POINT RE-CHECK:

DATE: 3-12-16 TIME: 2:54 AM/PM

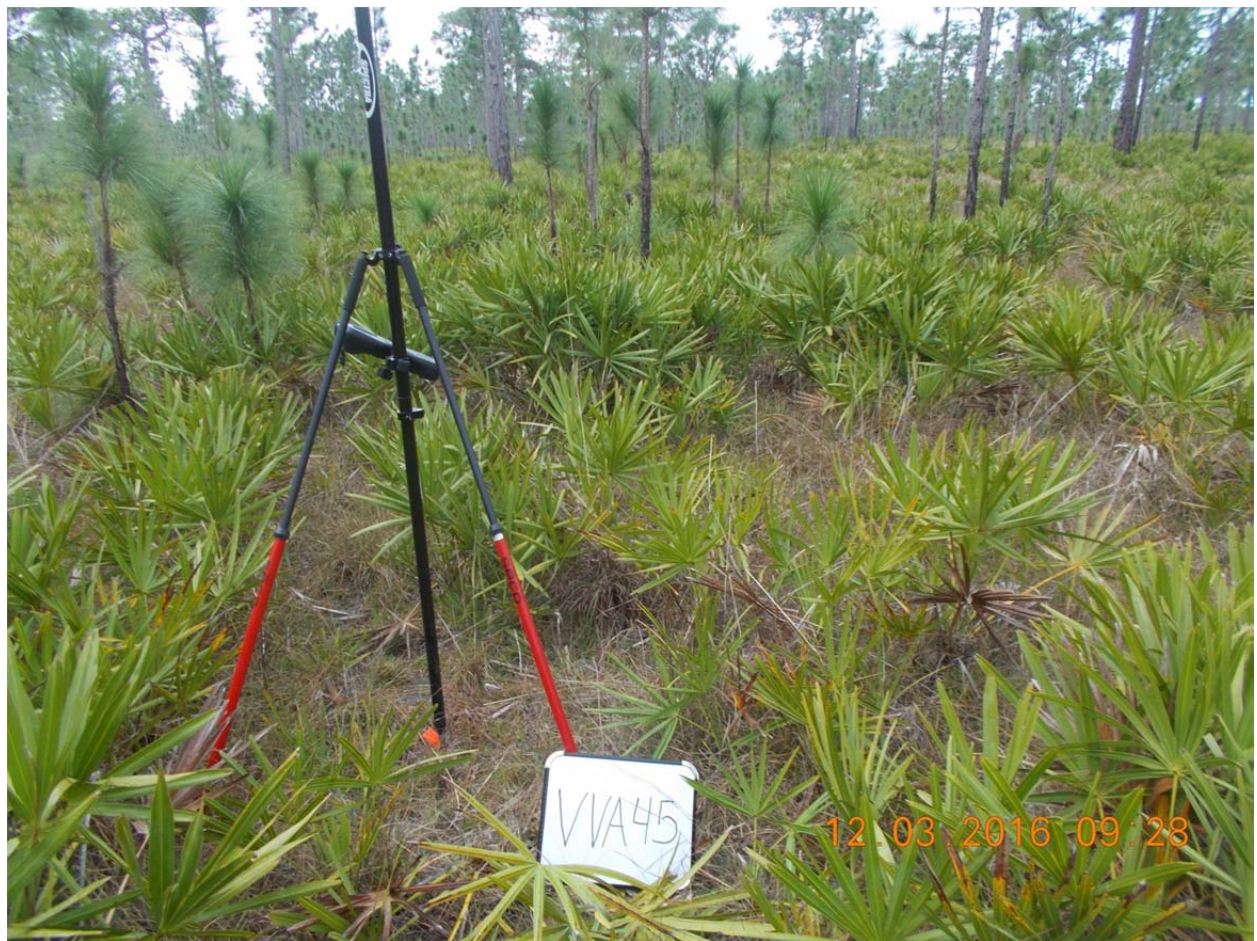
RE-CHECK PT. NUMBER: VVA45-CHK



SKETCH AREA

## DESCRIPTION OF POINT:

GOOD IN LIGHT WOODS WITH TALL PALMETOS





PREBLE-RISH INC  
CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 2-12-16 TIME: 11:04 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 46

STATE: Florida LATITUDE: 27°44'13.16272 LONGITUDE: 80°54'22.92248 W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

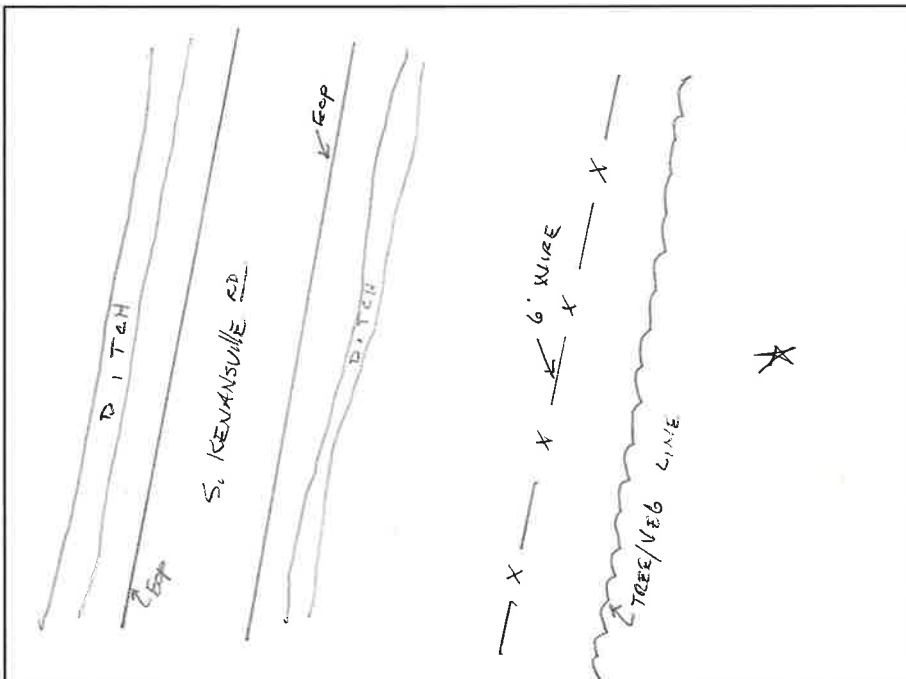
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 2-12-16 TIME: 4:11 AM/PM

RE-CHECK PT. NUMBER: VVA46-CHK



SKETCH AREA

#### DESCRIPTION OF POINT:

POB IN LIGHT TREES WITH TALL PALMETO

\* MOVED TO EAST SIDE OF ROW DUE TO DITCH





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CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-12-16 TIME: 5:42 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA47

STATE: Florida LATITUDE: 27°42'03.85681"N LONGITUDE: 80°56'22.56861"W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01' V: 0.01' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

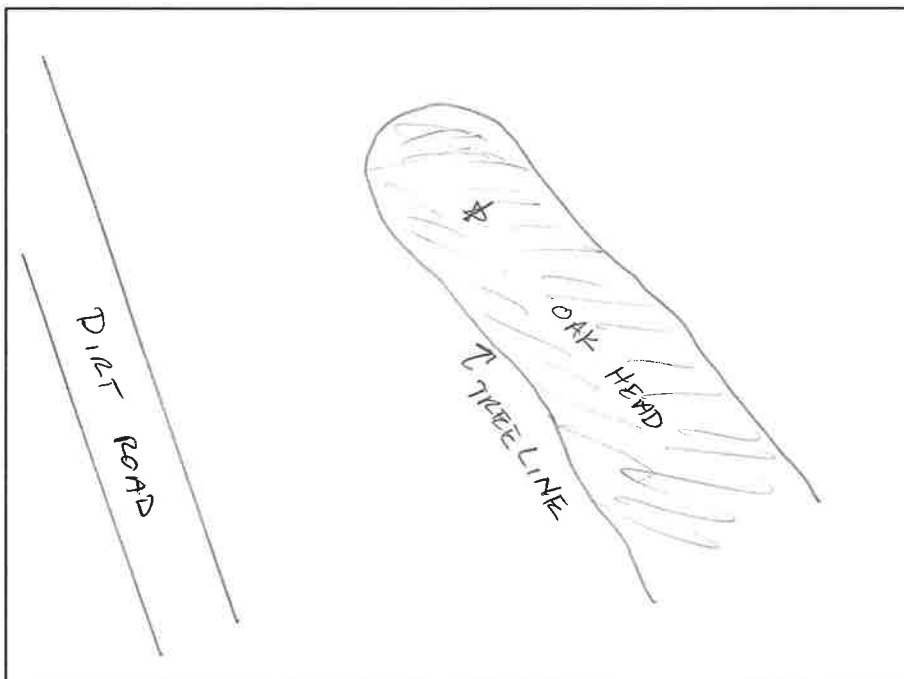
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3-13-16 TIME: 4:22 AM/PM AM

RE-CHECK PT. NUMBER: VVA47-CHK



SKETCH AREA

#### DESCRIPTION OF POINT:

60D IN TAIL BRASS IN OAK HEAD





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### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-13-16 TIME: 10:11 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 48

STATE: Florida LATITUDE: 27° 56' 11.88395" N LONGITUDE: 81° 13' 23.03058" W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01' V: 0.02' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

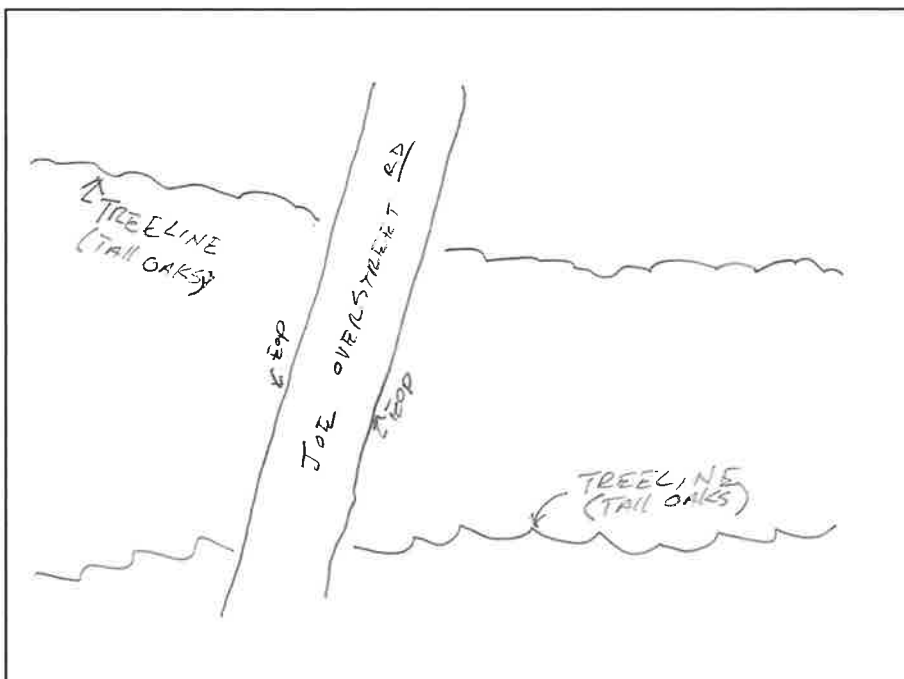
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3-13-16 TIME: 7:21 AM/PM

RE-CHECK PT. NUMBER: VVA48-CHK



SKETCH AREA

#### DESCRIPTION OF POINT:

POD IN GRASS WITH TALL OAKS





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CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-13-16 TIME: 10:45 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 49

STATE: Florida LATITUDE: 27°53'54.66625"N LONGITUDE: 81°08'32.89285"W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.81' V: 0.01' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

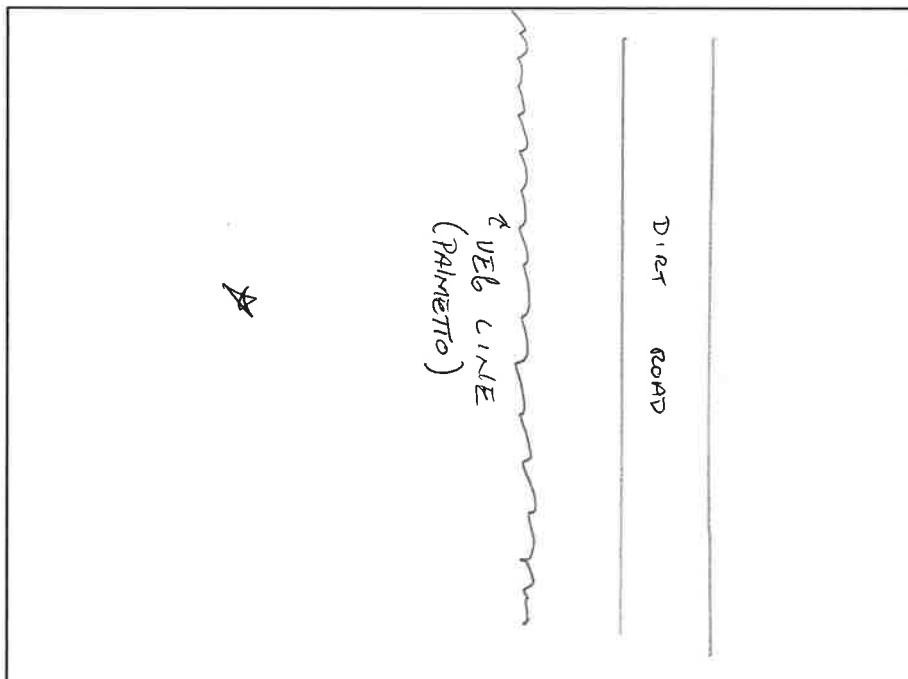
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3-15-16 TIME: 10:39 AM/PM

RE-CHECK PT. NUMBER: VVA 49-CHK



SKETCH AREA

#### DESCRIPTION OF POINT:

WOOD IN PALMETTO



**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3-13-16 TIME: 2:45 AM/PM PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 50

STATE: Florida LATITUDE: 27°49'17.97294"N LONGITUDE: 81°08'06.71606"W

ADDRESS and/or INTERSECTION: THREE LAKE WILD. MAN. AREA

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01' V: 0.01' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

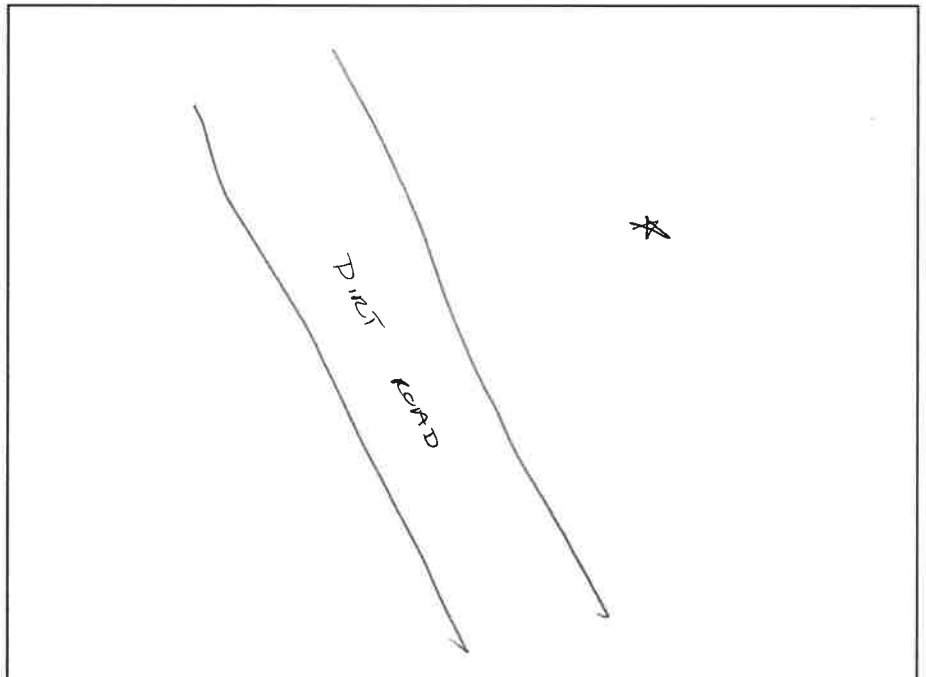
**POINT RE-CHECK:**

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

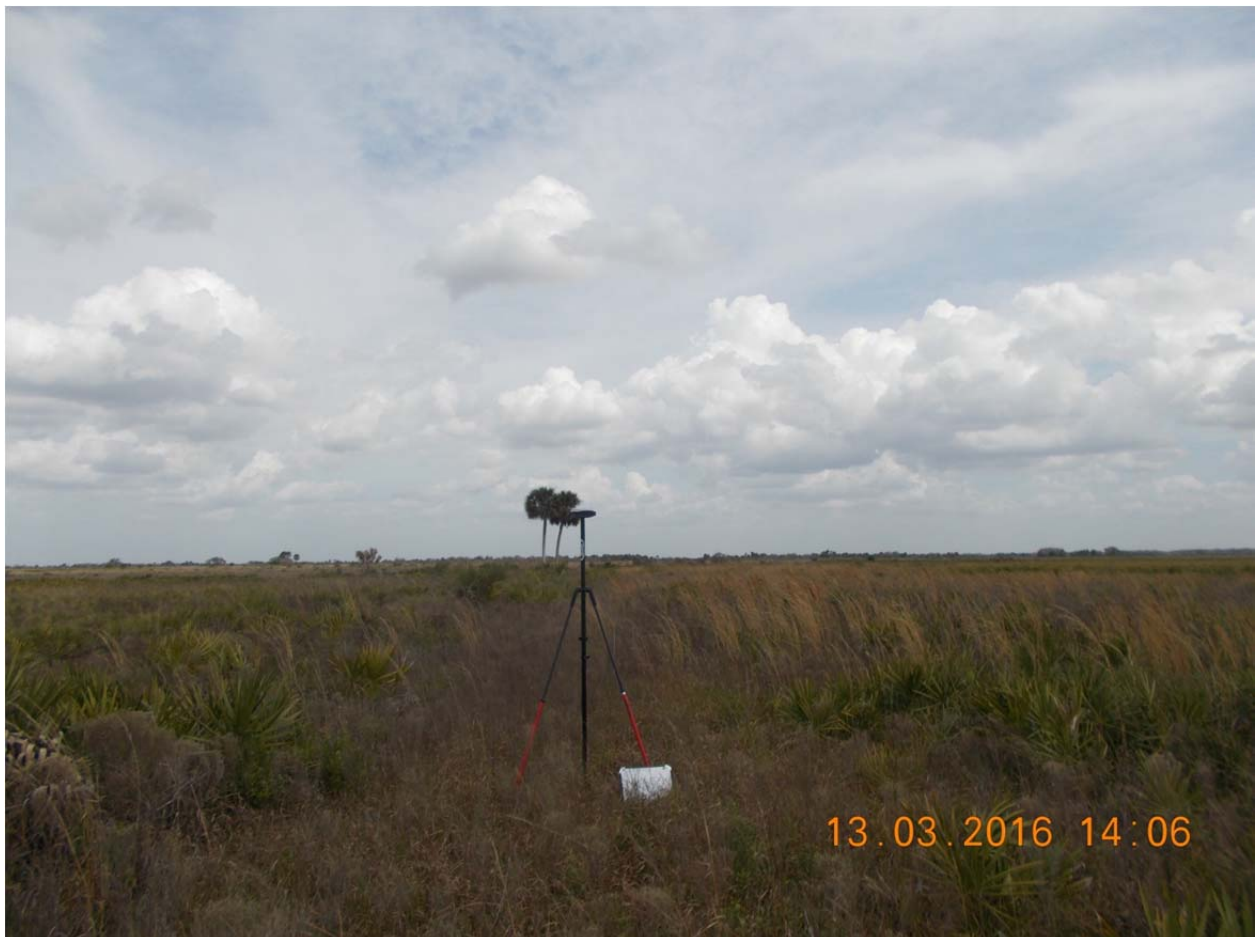
RE-CHECK PT. NUMBER: \_\_\_\_\_

**DESCRIPTION OF POINT:**

POD IN PALMETTO



**SKETCH AREA**





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### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-13-16 TIME: 12:30 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 51

STATE: Florida LATITUDE: 27°46'52.40698"N LONGITUDE: 81°01'26.60347"W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.02' V: 0.03' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

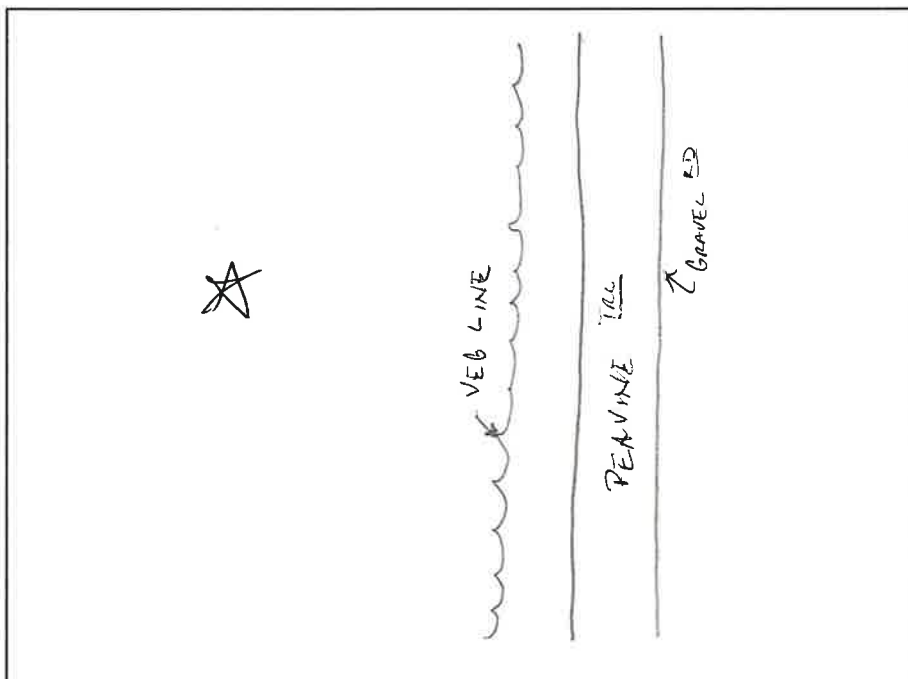
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3-15-16 TIME: 12:50 AM/PM PM

RE-CHECK PT. NUMBER: VVA51CHK



SKETCH AREA

#### DESCRIPTION OF POINT:

POD IN WOODED AREA



**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3-13-16 TIME: 3:08 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VIA 52

STATE: Florida LATITUDE: 27°52'11.10747"N LONGITUDE: 81°07'59.10399"W

ADDRESS and/or INTERSECTION: THREE RIVERS WCM

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01' V: 0.01' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

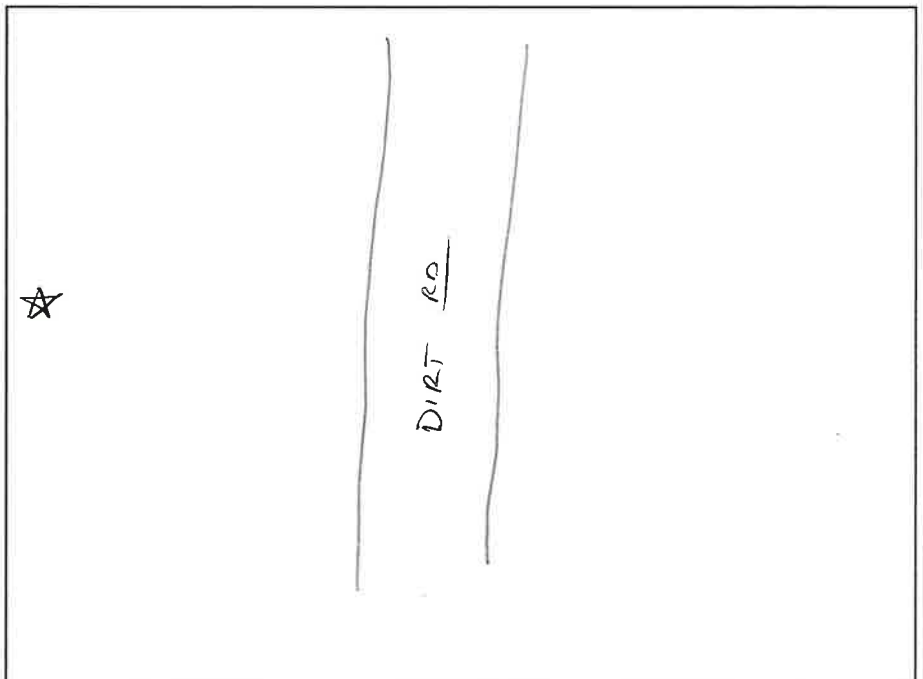
**PICTURES:**

☐ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_



**SKETCH AREA**

**DESCRIPTION OF POINT:**

60D IN TALL GRASS & PALMETO





PREBLE-RISH INC.  
CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-13-16 TIME: 2:36 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 53

STATE: Florida LATITUDE: 27°52'19.71680"N LONGITUDE: 81°10'57.33307"W

ADDRESS and/or INTERSECTION: THREE LAKES WLM

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01' V: 0.01' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

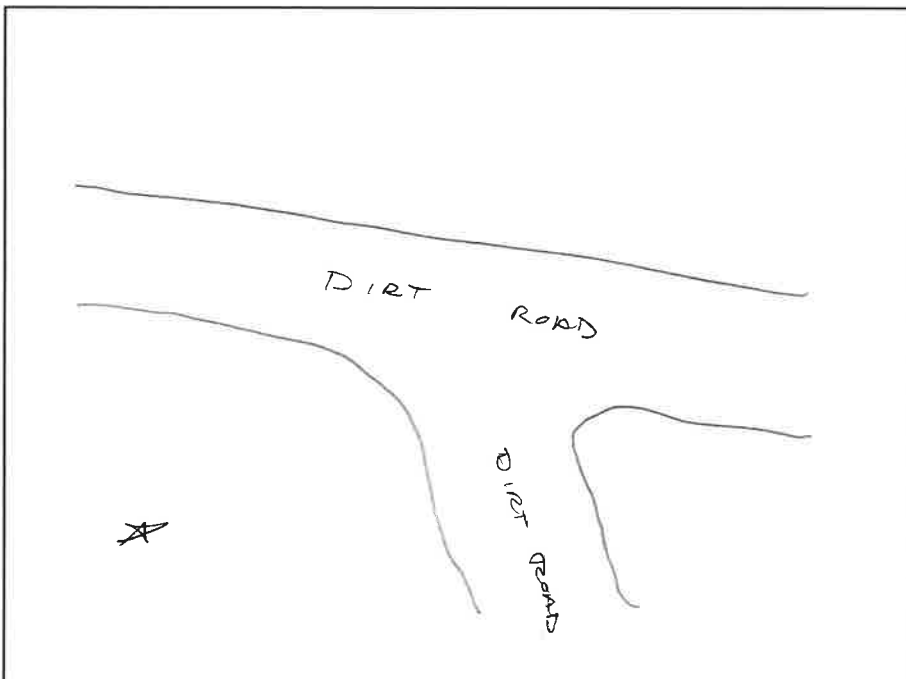
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_



SKETCH AREA

#### DESCRIPTION OF POINT:

POD IN TALL GRASS & OAKS





**PREBLE-RISH INC**  
CONSULTING ENGINEERS & SURVEYORS

**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3-14-16 TIME: 9:25 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 54

STATE: Florida LATITUDE: 28°02'36.65573"N LONGITUDE: 81°17'41.65872"W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01' V: 0.01' DURATION: 3 Min

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

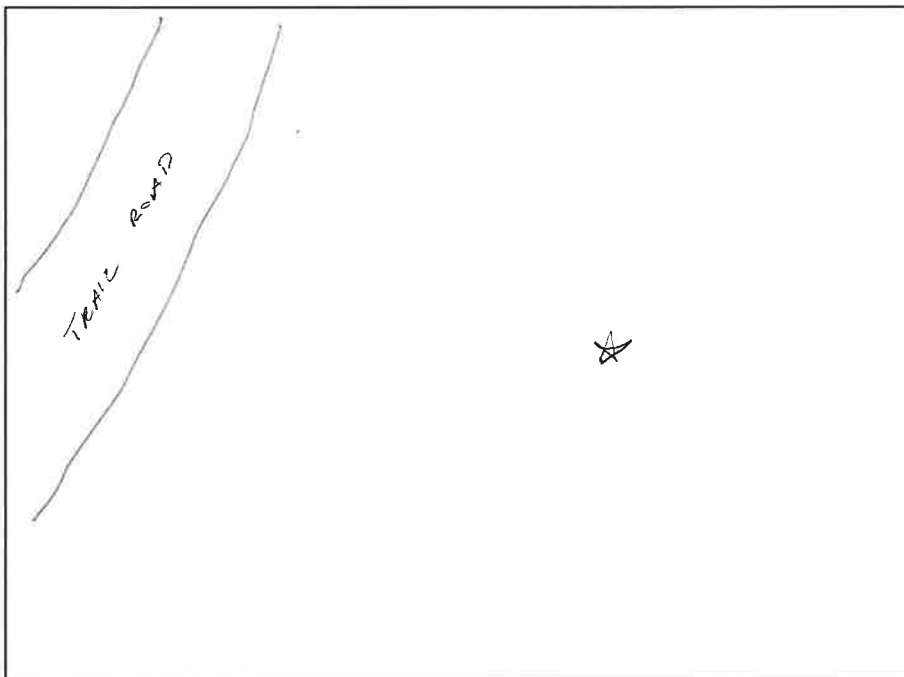
**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3-14-16 TIME: 2:38 AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_



**SKETCH AREA**

**DESCRIPTION OF POINT:**

600 IN TALL GRASS & BUSHES





PREBLE-RISH INC  
CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-14-16 TIME: 10:05 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 55

STATE: Florida LATITUDE: 28°02'41.59932"N LONGITUDE: 81°19'51.53523"W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.02 V: 0.04 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

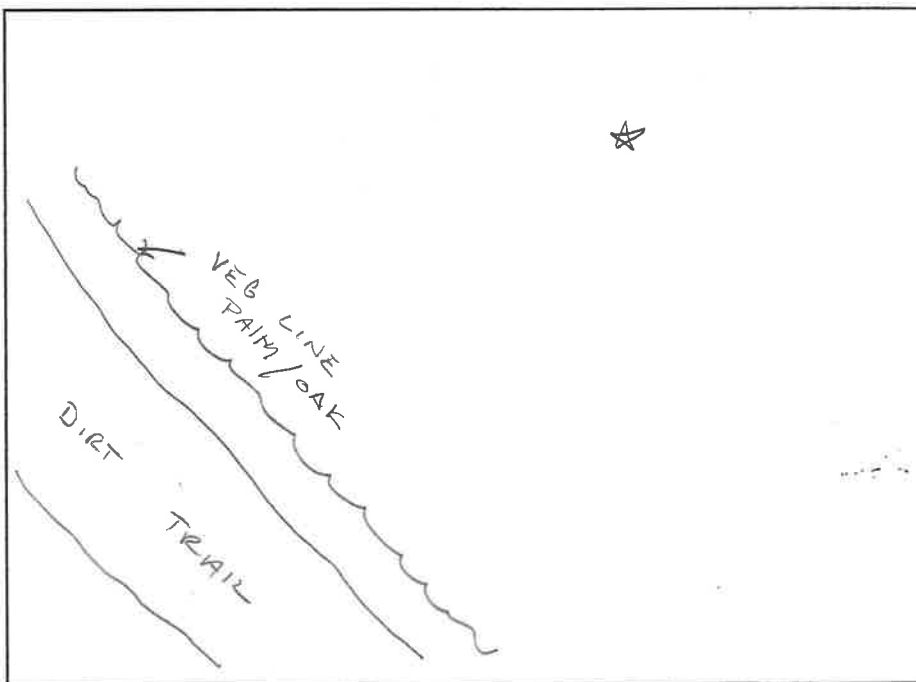
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3-14-16 TIME: 2:18 AM/PM

RE-CHECK PT. NUMBER: VVA55



SKETCH AREA

#### DESCRIPTION OF POINT:

GOOD IN GRASS AREA WITH PALM & OAKS





PREBLE-RISH INC  
CONSULTING ENGINEERS & SURVEYORS

**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3-14-16 TIME: 10:35 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 56

STATE: Florida LATITUDE: 27°58'43.4377"N LONGITUDE: 81°18'15.09379"W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01' V: 0.01' DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

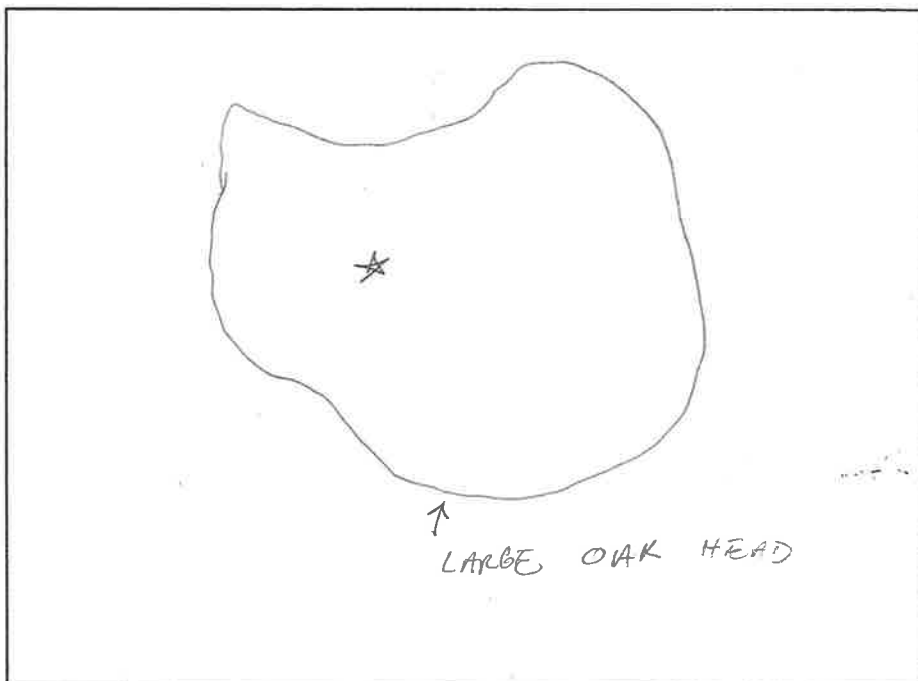
**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: 3-14-16 TIME: 3:19 AM/PM

RE-CHECK PT. NUMBER: VVA 56



SKETCH AREA

**DESCRIPTION OF POINT:**

60D IN LARGE OAKS





PREBLE-RISH INC  
CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-14-16 TIME: 11:16 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 57

STATE: Florida LATITUDE: 27°59'40.18928"N LONGITUDE: 81°20'48.76957"W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3Min

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

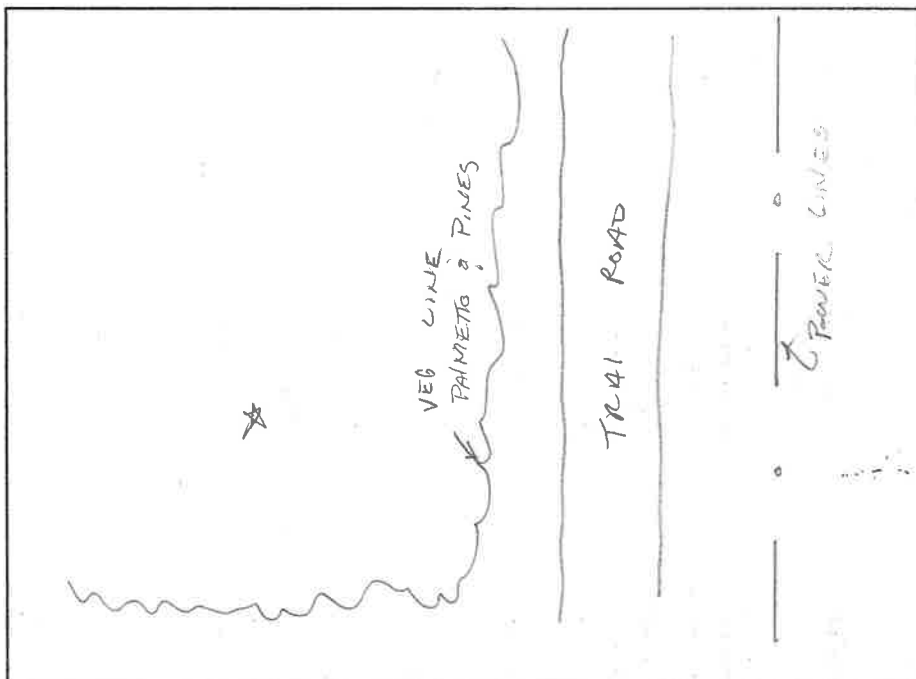
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: 3/14/16 TIME: 3:49 AM/PM

RE-CHECK PT. NUMBER: VVA57-CHK



SKETCH AREA

#### DESCRIPTION OF POINT:

60D IN TALL PALMETTO & PINES





# GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-9-16 TIME: 4:33 AM/PM PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 58

STATE: Florida LATITUDE: 28°08'56.77089"N LONGITUDE: 81°24'17.42680"W

ADDRESS and/or INTERSECTION: W. SOUTHPORT RD

## OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## TYPE OF LAND COVER:

☒ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

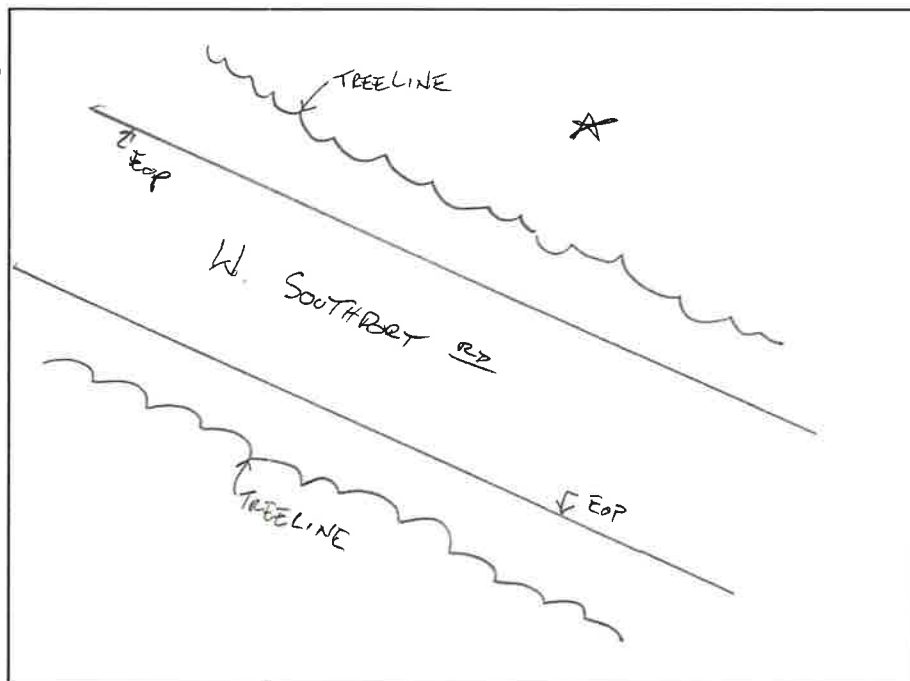
## PICTURES:

☒ PICTURE(S) OF AREA & SETUP

## POINT RE-CHECK:

DATE: 3-10-16 TIME: 11:48 AM/PM PM

RE-CHECK PT. NUMBER: VVA38-CHK



SKETCH AREA

## DESCRIPTION OF POINT:

600 IN TALL OAKS





PREBLE-RISH INC  
CONSULTING ENGINEERS & SURVEYORS

# **GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3-15-16 TIME: 12:05 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VIA 59

STATE: Florida LATITUDE: 27°49'26.18790"N LONGITUDE: 81°03'23.34953"W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

## **OBSERVATION METHOD:**

☐ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## **TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

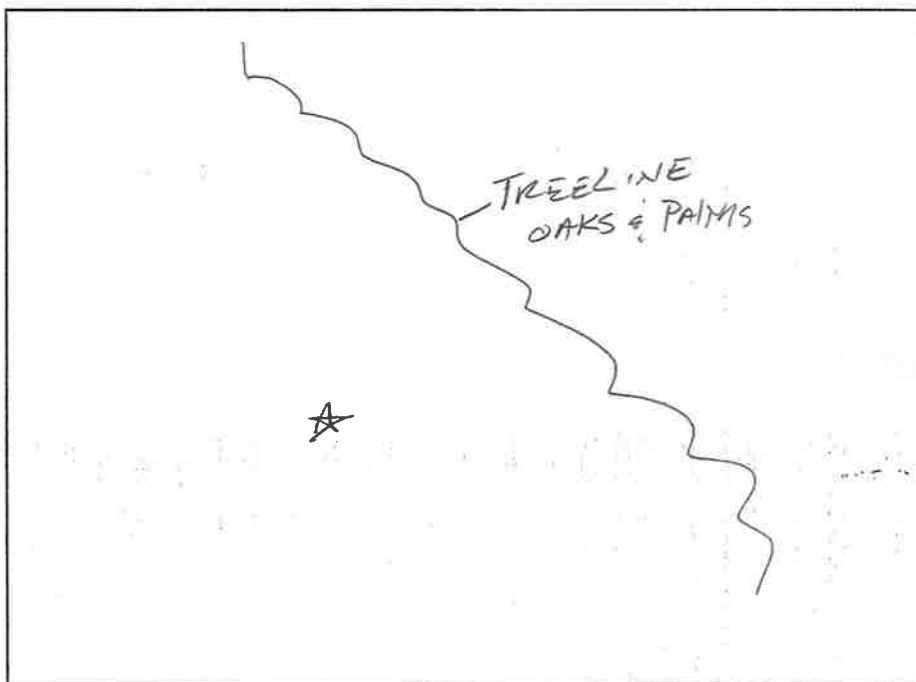
## **PICTURES:**

☐ PICTURE(S) OF AREA & SETUP

## **POINT RE-CHECK:**

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_



**SKETCH AREA**

## **DESCRIPTION OF POINT:**

60 D IN TALL PALMS & OAKS



**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/15 TIME: 1:55 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 60

STATE: Florida LATITUDE: 27°41'43.83628"N LONGITUDE: 81°01'22.47495"W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

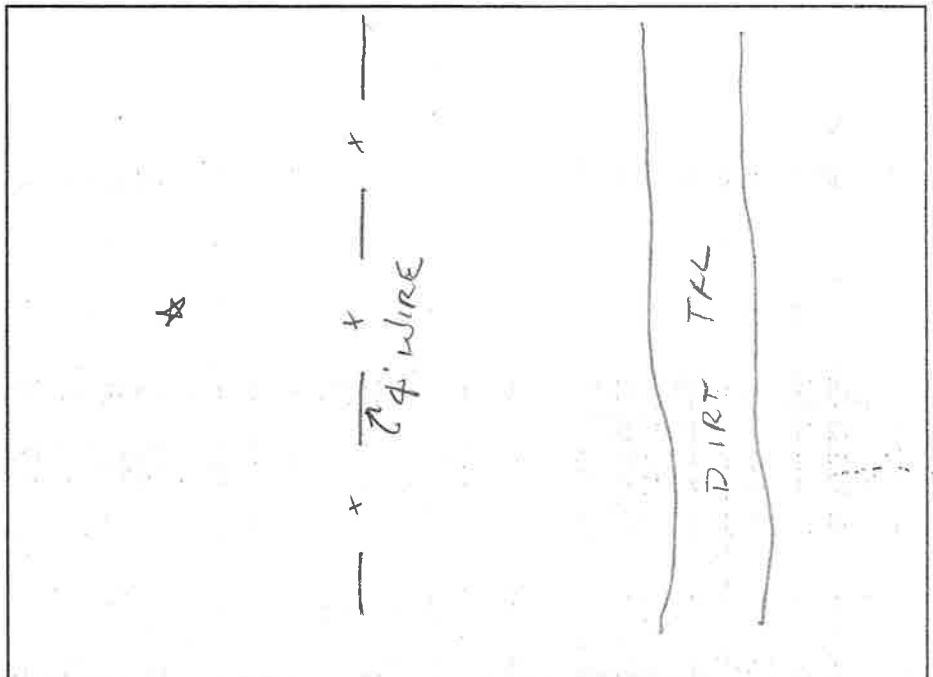
**POINT RE-CHECK:**

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_

**DESCRIPTION OF POINT:**

bad in tall grass



**SKETCH AREA**





PREBLE-RISH INC  
CONSULTING ENGINEERS & SURVEYORS

**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3-15-16 TIME: 2:09 AM/PM (M) EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA61

STATE: Florida LATITUDE: 27°29'20.45577"N LONGITUDE: 81°01'24.59057"W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

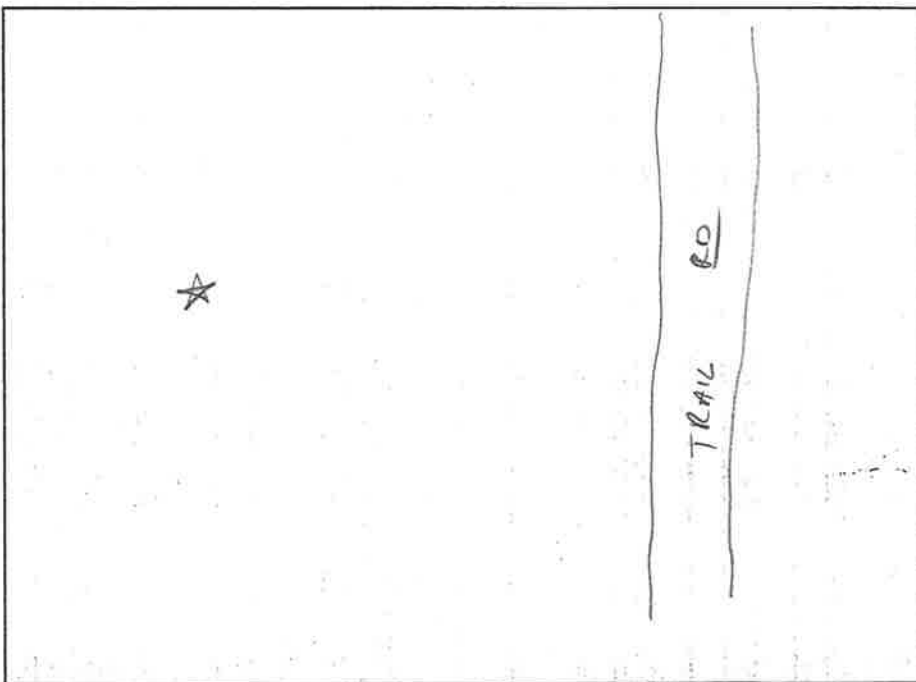
**POINT RE-CHECK:**

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_

**DESCRIPTION OF POINT:**

WOOD IN TALL GRASS



SKETCH AREA





PREBLE-RISH INC  
CONSULTING ENGINEERS & SURVEYORS

**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3-15-16 TIME: 2:50 AM/PM (PM) EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA62

STATE: Florida LATITUDE: 27°44'03.56" N LONGITUDE: 81°04'58.29" W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

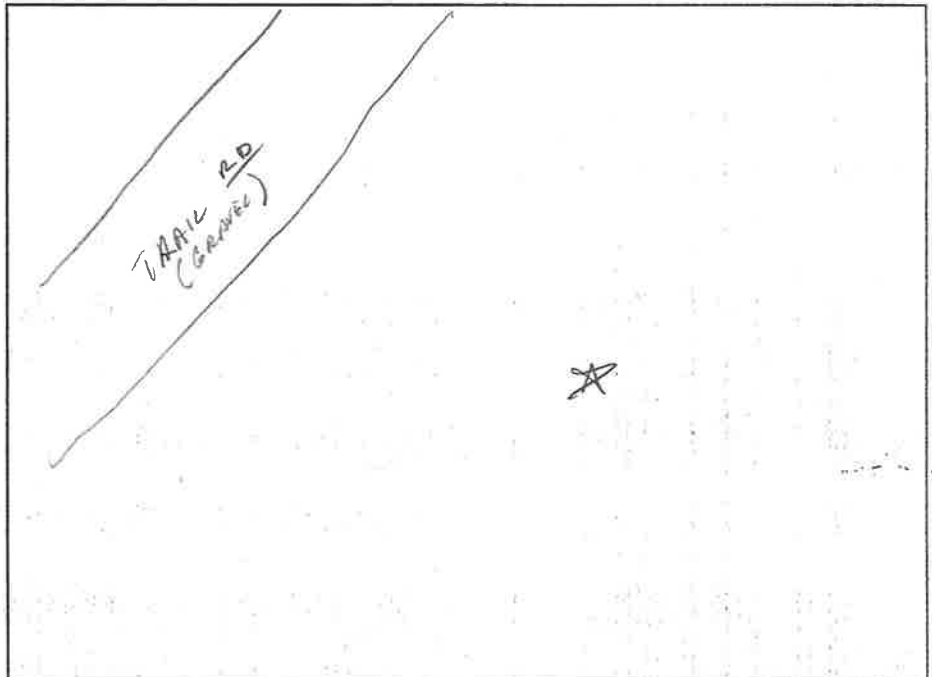
**PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_



SKETCH AREA

**DESCRIPTION OF POINT:**

600 IN TALL GRASS





PREBLE-RISH INC  
CONSULTING ENGINEERS & SURVEYORS

## GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-15-16 TIME: 14:29 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 63

STATE: Florida LATITUDE: 27°44'03.66364" N LONGITUDE: 81°07'34.1931" W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

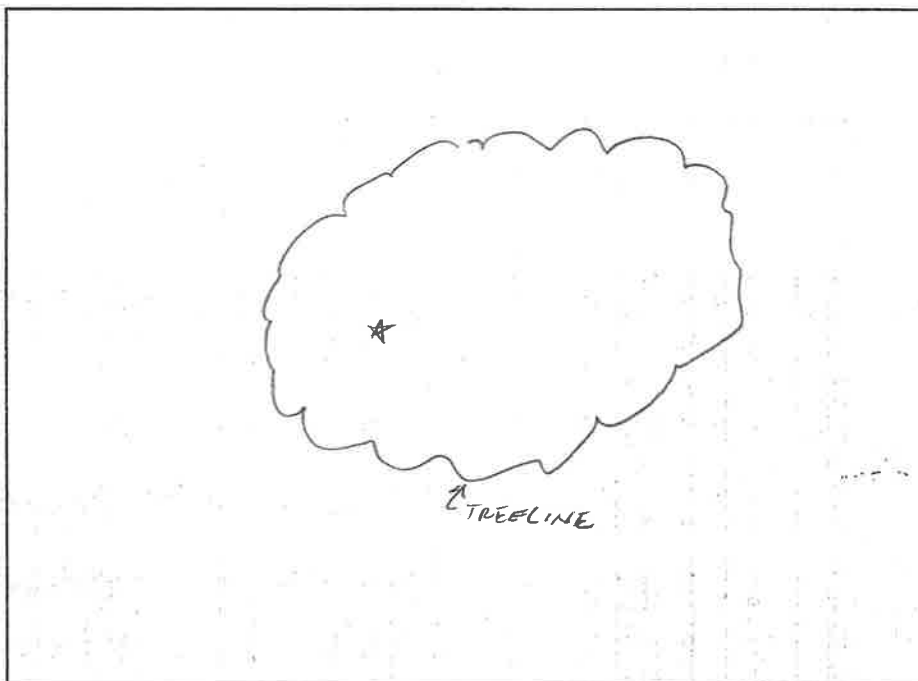
### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

### POINT RE-CHECK:

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_



SKETCH AREA

### DESCRIPTION OF POINT:

LOGD IN TALL OAKS W/ PALMETTO





PREBLE-RISH INC  
CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-15-16 TIME: 4:11 AM/PM AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 64

STATE: Florida LATITUDE: 27°40'23.72313"N LONGITUDE: 81°04'46.01160"W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

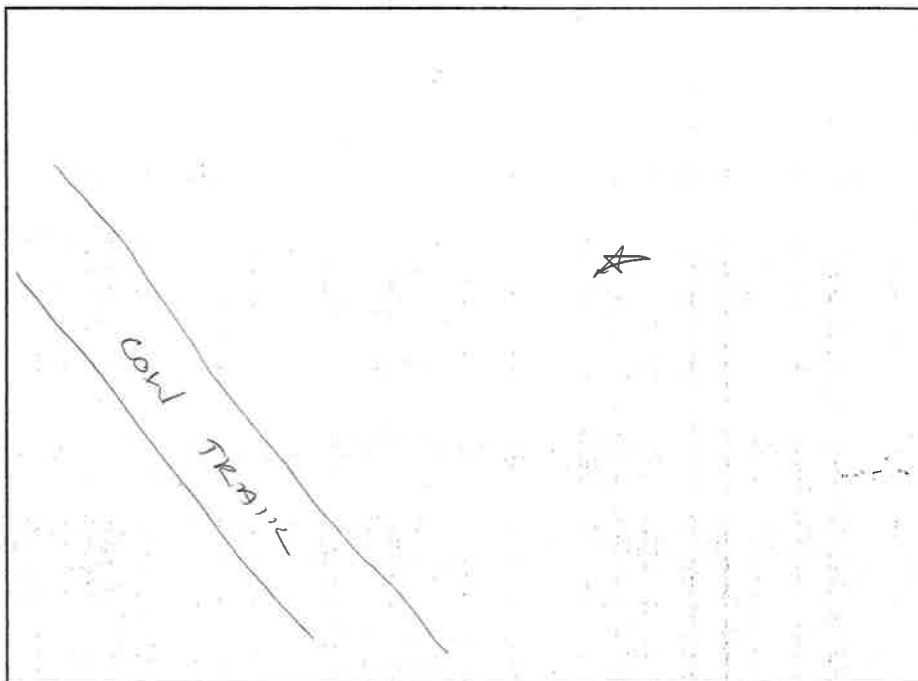
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_



SKETCH AREA

#### DESCRIPTION OF POINT:

60D IN TALL GRASS





PREBLE-RISH INC.  
CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-15-16 TIME: 4:46 AM/PM (M) EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 65

STATE: Florida LATITUDE: 27°39'50.3696021 LONGITUDE: 81°07'10.73476

ADDRESS and/or INTERSECTION: \_\_\_\_\_

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

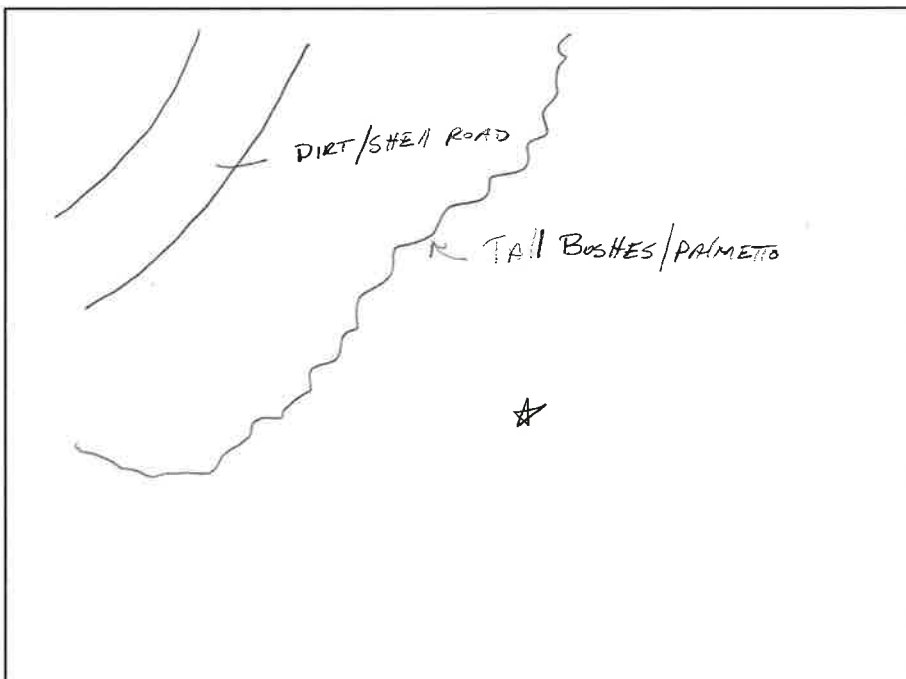
#### PICTURES:

☒ PICTURE(S) OF AREA & SETUP

#### POINT RE-CHECK:

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_



SKETCH AREA

#### DESCRIPTION OF POINT:

WOOD IN MED. HEIGHT BUSH





# GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/16/16 TIME: 1035 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VUA-66 Pt 1167

STATE: Florida LATITUDE: 28°00'08.88662" LONGITUDE: 80°56'30.67363"

ADDRESS and/or INTERSECTION: DIRT RD

## OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

## PICTURES:

☒ PICTURE(S) OF AREA & SETUP

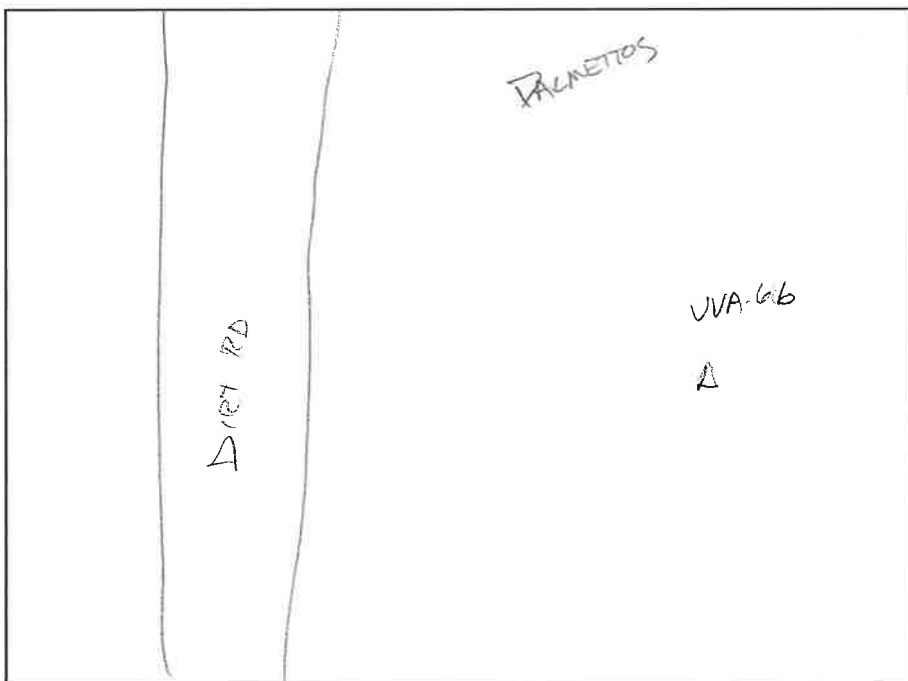
## POINT RE-CHECK:

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_

## DESCRIPTION OF POINT:

100-D NAIL



SKETCH AREA





PREBLE-RISH INC  
CONSULTING ENGINEERS & SURVEYORS

### GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3/16/16 TIME: 1342 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-67 DT 1170

STATE: Florida LATITUDE: 28°03'19.14784" LONGITUDE: 81°00'30.22830"

ADDRESS and/or INTERSECTION: DONOVAN CREWS RD

#### OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.01 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

#### TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

#### PICTURES:

☐ PICTURE(S) OF AREA & SETUP

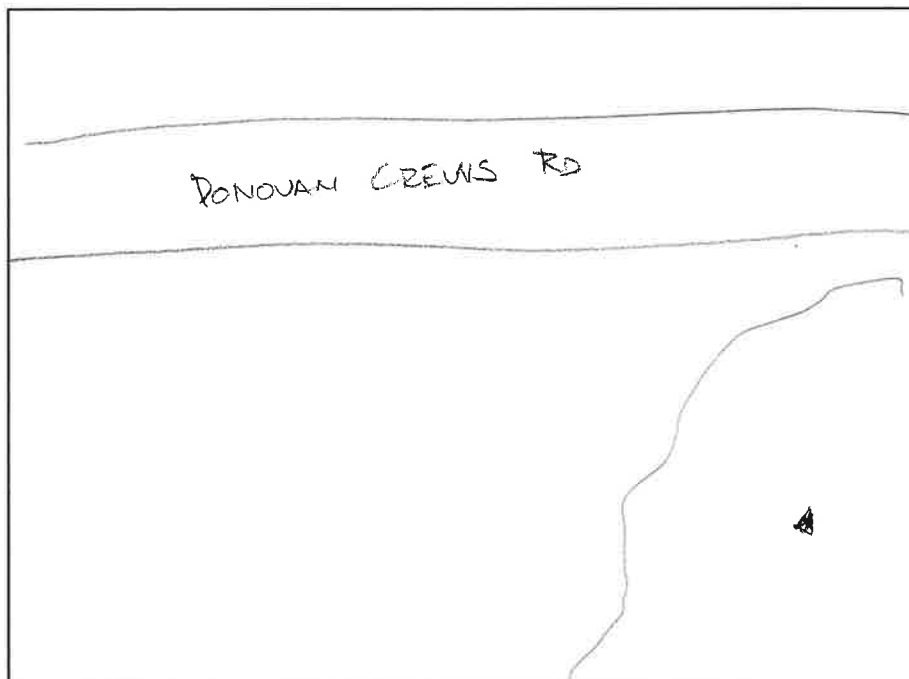
#### POINT RE-CHECK:

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_

#### DESCRIPTION OF POINT:

60-D NAIL



SKETCH AREA



**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/15/16 TIME: 15:23 AM/PM (M) EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 68 PT 1163

STATE: Florida LATITUDE: 28°05'02.52166 LONGITUDE: 80°58'02.61486

ADDRESS and/or INTERSECTION: Crabgrass Road

**OBSERVATION METHOD:**

☐ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 min

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

**PICTURES:**

☐ PICTURE(S) OF AREA & SETUP

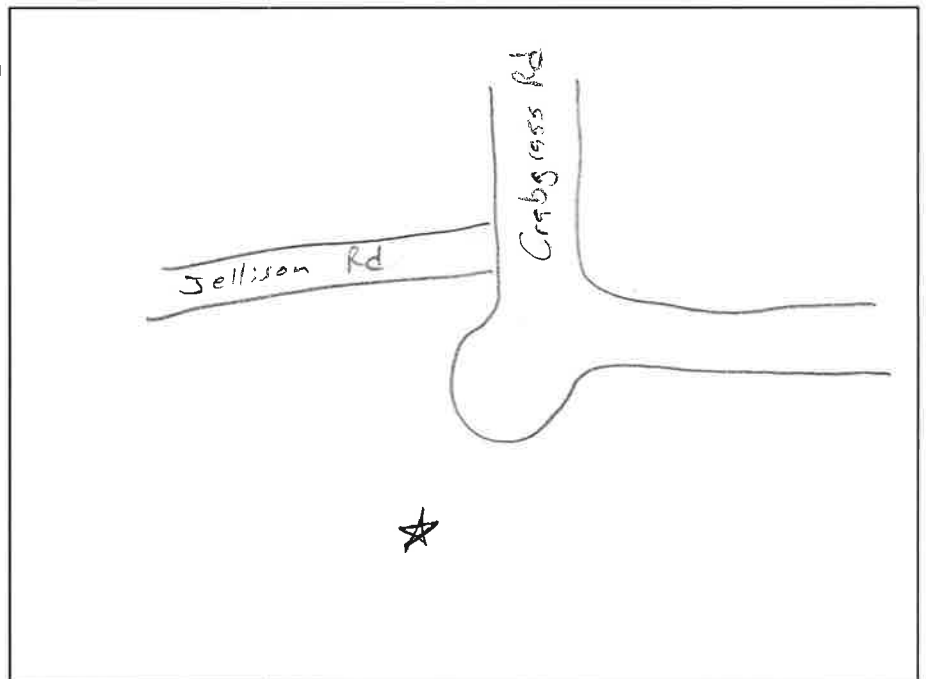
**POINT RE-CHECK:**

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

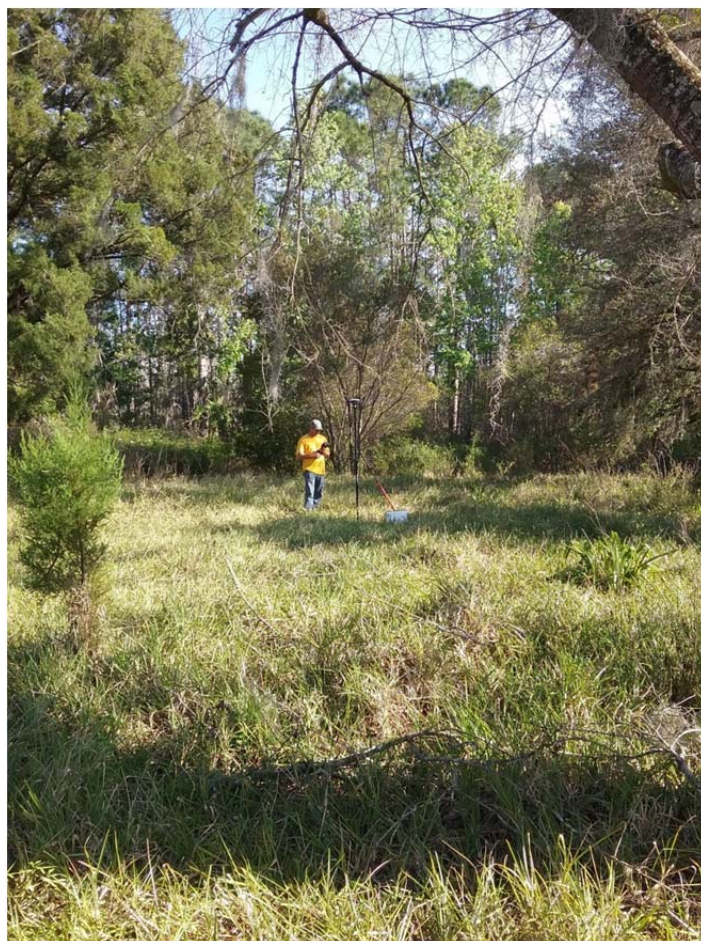
RE-CHECK PT. NUMBER: \_\_\_\_\_

**DESCRIPTION OF POINT:**

60 D IN TALL TREES



**SKETCH AREA**



**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/15/16 TIME: 1326 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-69 Pn157

STATE: Florida LATITUDE: 27° 54' 35.36969" LONGITUDE: 80° 53' 10.22713"

ADDRESS and/or INTERSECTION: PASTURE

**OBSERVATION METHOD:**

☐ VRS GPS RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☐ Vegetated Vertical Accuracy (VVA-#)

**PICTURES:**

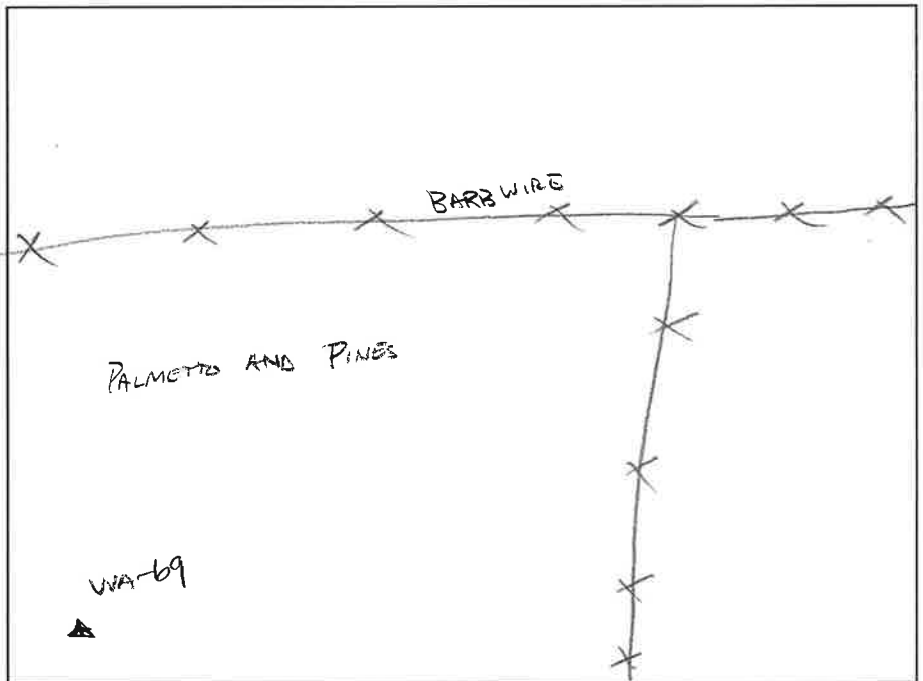
☐ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_

DESCRIPTION OF POINT:



SKETCH AREA





# **GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3/15/16 TIME: 1510 AM/PM EMPLOYEE NAME: Milo Kolberg

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA-70 Pt 1159

STATE: Florida LATITUDE: 28°00'02.70087" LONGITUDE: 80°54'16.18066

ADDRESS and/or INTERSECTION: KEMPFER RD

## **OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MINS

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## **TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

## **PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

TAKE PIC  
VVA-70

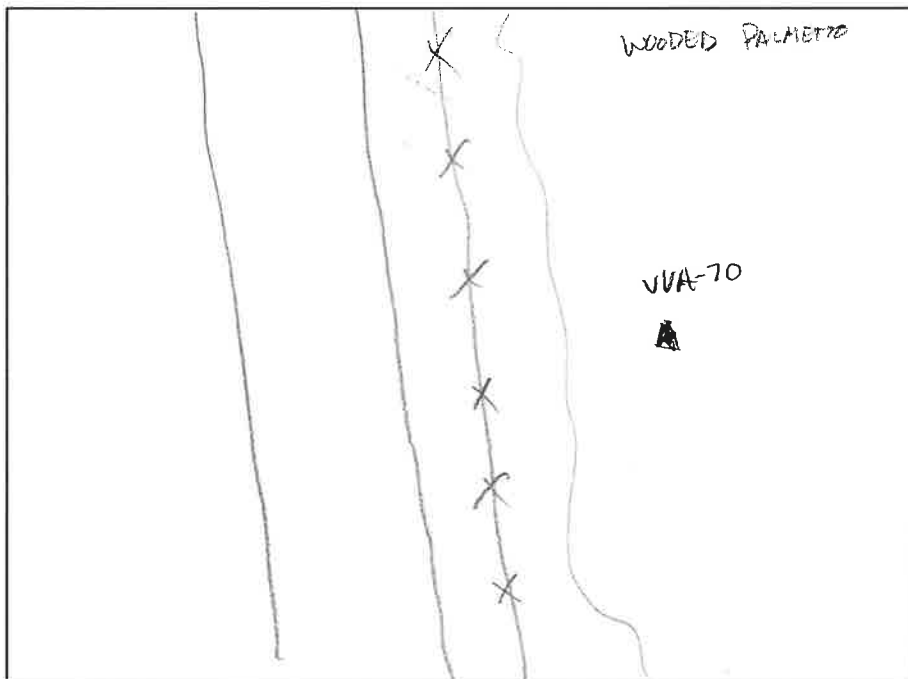
## **POINT RE-CHECK:**

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_

## **DESCRIPTION OF POINT:**

60-D NAIL



SKETCH AREA



**GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3-16-16 TIME: 9:45 ~~AM~~/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA71

STATE: Florida LATITUDE: 28°06'58.46566"N LONGITUDE: 81°07'17.65620"W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

**OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01' V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

**TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

**PICTURES:**

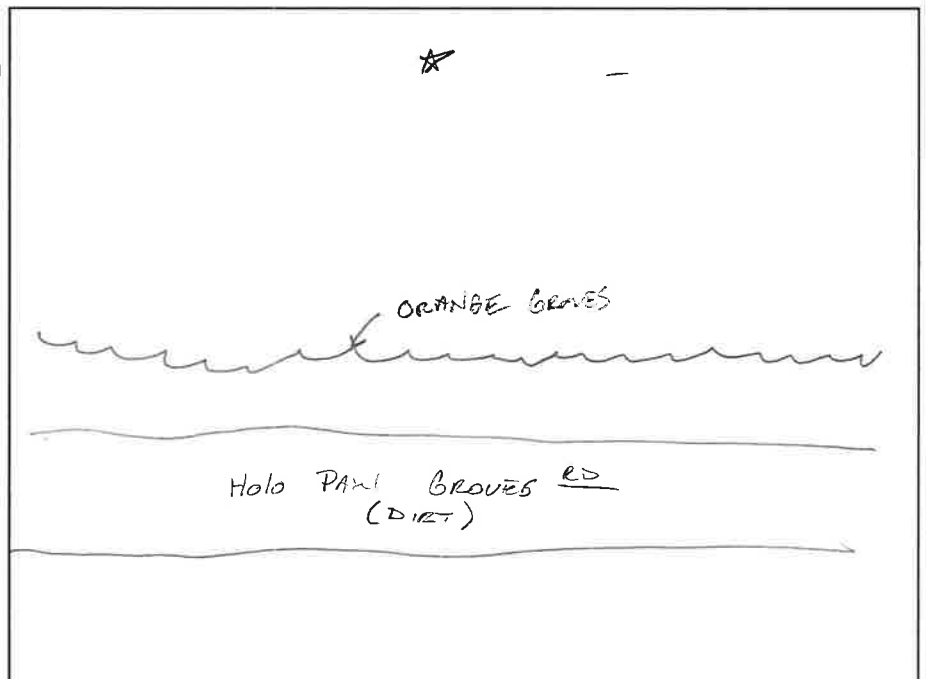
☒ PICTURE(S) OF AREA & SETUP

**POINT RE-CHECK:**

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_

DESCRIPTION OF POINT: \_\_\_\_\_



**SKETCH AREA**





# **GROUND CONTROL POINT DOCUMENTATION REPORT**

DATE: 3-16-16 TIME: 11:50 AM/PM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: WA 72

STATE: Florida LATITUDE: 28°06'57.84258"N LONGITUDE: 81°10'55.73383"W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

## **OBSERVATION METHOD:**

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MIN

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM  
PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## **TYPE OF LAND COVER:**

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

## **PICTURES:**

☒ PICTURE(S) OF AREA & SETUP

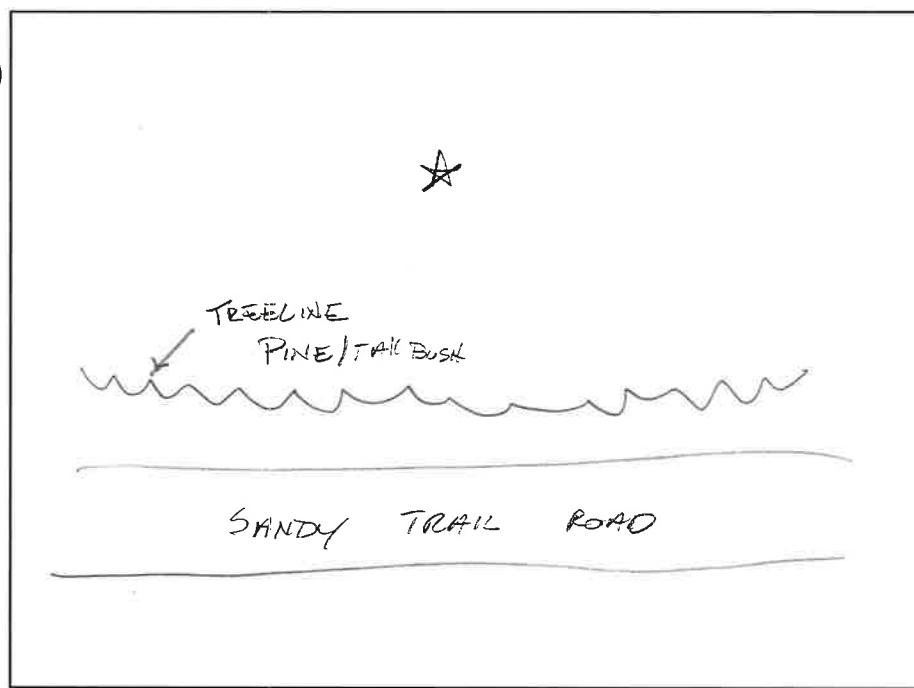
## **POINT RE-CHECK:**

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_

## **DESCRIPTION OF POINT:**

WOOD IN PINES WITH BUSHES



**SKETCH AREA**





# GROUND CONTROL POINT DOCUMENTATION REPORT

DATE: 3-16-16 TIME: 12:55 AM/PM AM EMPLOYEE NAME: Warren Clark

JOB NAME: Osceola, FL-QL2 Lidar POINT NUMBER: VVA 73

STATE: Florida LATITUDE: 28°05'06.57760"N LONGITUDE: 81°06'50.37480"W

ADDRESS and/or INTERSECTION: \_\_\_\_\_

## OBSERVATION METHOD:

☒ VRS GPS RMS: \_\_\_\_\_ H: 0.01 V: 0.02 DURATION: 3 MIN.

☐ OPUS GPS (20 MIN) START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ CONVENTIONAL PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_  
PT. No. \_\_\_\_\_ RMS: \_\_\_\_\_ H: \_\_\_\_\_ V: \_\_\_\_\_ DURATION: \_\_\_\_\_

(20 MIN) PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

PT. No. \_\_\_\_\_ START TIME: \_\_\_\_\_ AM/PM END: \_\_\_\_\_ AM/PM

☐ OCCUPIED #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ BS #/HT: \_\_\_\_\_ / \_\_\_\_\_ ☐ FS #/HT: \_\_\_\_\_ / \_\_\_\_\_

☐ BACK SITE DISTANCE: \_\_\_\_\_ ☐ ANGLE: \_\_\_\_\_ ☐ FS DISTANCE: \_\_\_\_\_

☐ FS ANGLE: \_\_\_\_\_ VERT. ANG: \_\_\_\_\_ SLOPE DIST.: \_\_\_\_\_ HORZ. DIST.: \_\_\_\_\_

## TYPE OF LAND COVER:

☐ Non-Vegetated Vertical Accuracy (NVA-#)

☒ Vegetated Vertical Accuracy (VVA-#)

## PICTURES:

☒ PICTURE(S) OF AREA & SETUP

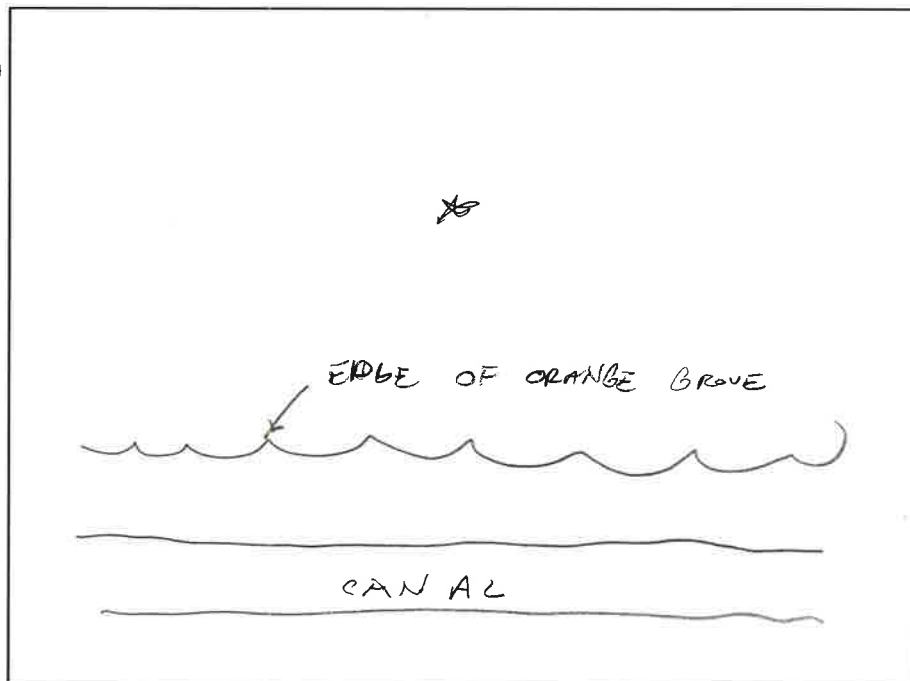
## POINT RE-CHECK:

DATE: \_\_\_\_\_ TIME: \_\_\_\_\_ AM/PM

RE-CHECK PT. NUMBER: \_\_\_\_\_

## DESCRIPTION OF POINT:

bed IN ORANGE GROVE



SKETCH AREA

