



# LiDAR Ground Control Survey Report

USGS Mississippi NRCS FY16 LiDAR Project

Task Order Number: G16PD00331

March 2017

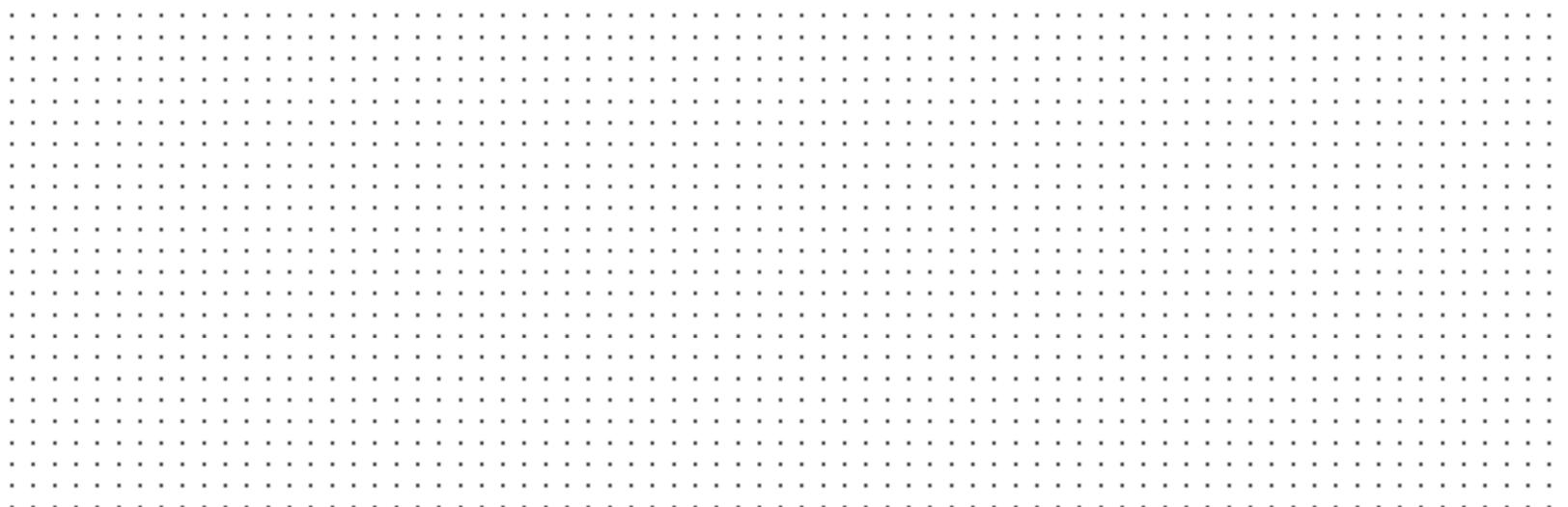
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# Table of Contents

## Section One: LiDAR Ground Control Survey Report

Introduction.....	1
Project Area .....	1
Purpose .....	1
Date of Survey .....	1
Monumentation .....	1
Methodology .....	2
Post-Processing and Adjustments.....	2
Datum Reference and Final Coordinates.....	3
Accuracy Statement.....	3

## Section Two: Ground Control Station Coordinate Listings

## Section Three: Existing NGS Control Information Sheets

## Section Four: Station Observation Sheets and Photos

## Section Five: GPS Control Diagram



# Section 1: LiDAR Ground Control Survey Report

## Introduction

This report contains a comprehensive outline of the photogrammetric ground control survey that supported the USGS Mississippi NRCS FY16 LiDAR Project. All surveys were performed in compliance with the American Society for Photogrammetry and Remote Sensing (ASPRS) standards required to support new LiDAR data with 0.7 meter average point density and the U.S. Geological Survey National Geospatial Program LiDAR Base Specification Version 1.2.

## Project Area

The project area includes approximately 4,780 square miles across Amite, Wilkinson, Adams, Franklin, Jefferson, Claiborne, Warren, and Hinds Counties.

## Purpose

The purpose of this survey was to establish three-dimensional coordinates for one hundred three (103) new LiDAR control stations and two hundred ten (210) new LiDAR quality control stations. LiDAR quality control stations will be used as quality control for eventual LiDAR data with 0.7 meter average point density. Specifications for these point densities are outlined in the ASPRS Positional Accuracy Standards for Digital Geospatial Data (Edition 1, Version 1.0, November 2014).

## Date of Survey

Ground control field operations took place in February of 2016.

## Monumentation

Woolpert field crews performed a field reconnaissance to verify the existence and suitability of preselected existing National Geodetic Survey (NGS) control stations. These existing control stations were utilized to ensure that quality x, y, and z coordinate values were computed for each of the newly established LiDAR quality control stations.

Recovery information sheets and photographs for the newly established photogrammetric control stations can be found in Section 4. A control diagram showing the ground control stations used to support this LiDAR mapping project can be found in Section 5 of this report. LiDAR quality control station information sheets and photographs were not documented.



## Methodology

### Real-Time Kinematic (RTK) GPS

For this particular field effort, Woolpert field crews utilized Woolpert-owned, Trimble Navigation R series multi-frequency GPS receivers. Field personnel generated RTK vectors through the use of Sierra Wireless Raven XT Code Division Multiple Access (CDMA) modems and Trimble Navigation Continually Operating Reference Stations (CORS)

Whenever possible, RTK observations were performed on all new LiDAR control points in order to collect data efficiently and accurately. The survey was conducted using a 1-second epoch rate, in a fixed solution RTK mode, with each observation lasting approximately 180 seconds. Each station was occupied twice to ensure the necessary horizontal and vertical accuracies were being met for this project. RTK surveys were performed where cellular data coverage was available and where baseline distance accuracy was maintained.

### Static GPS

Due to the usage of multiple RTK base stations, base stations with accompanying measurements were not contiguous. These stations were linked together via concurrent static observations, allowing for one contiguous network. CORS were also incorporated into the dataset to strengthen the overall baseline network. Data from observation sessions typically lasted several hours, with each session utilizing a 5-second sync rate. Static GPS was also utilized in areas in which cellular data coverage was limited.

## Post-Processing and Adjustments

All static GPS observations were processed using Trimble Navigation’s Trimble Business Center (TBC) 3.70 baseline processor with precise ephemeris. Both unconstrained and constrained adjustments were computed using trivial and nontrivial baselines. After an acceptable unconstrained least-squares adjustment was obtained, Woolpert performed a fully constrained least-squares adjustment by fixing the GPS network to existing NGS control stations with known coordinate data. Fixed solutions were obtained for all vector baselines.

During this project, the following stations were fixed during the constrained adjustment:

3-D STATIONS	
Description	PID
1001	N/A (OPUS)
B 338	CP2278
D 337	BW1848
G 363	CP3410
L 24 49 USE	CP2287
Y 362	CP3432

2-D STATIONS	
Description	PID
1LSU	DF5754
S24 A	DL6925
D 712	DN4078
G 208 RESET 1976	BW0055
LIBE	DN4037
LSUA	DF7992
MEADVILLE	BW0421
MSBU	N/A (TRIMBLE CORS)
MSFR	N/A (TRIMBLE CORS)
MSMC	N/A (TRIMBLE CORS)
MSMN	N/A (TRIMBLE CORS)
MSNA	N/A (TRIMBLE CORS)
MSPG	N/A (TRIMBLE CORS)
MSVC	N/A (TRIMBLE CORS)
MSWS	N/A (TRIMBLE CORS)
MSYZ	N/A (TRIMBLE CORS)
TALL	DG5002
THHR	DL8639
WASHINGTON	BW0892

## Datum Reference and Final Coordinates

All new horizontal GPS control was based on the Universal Transverse Mercator (UTM) System (UTM 15 North), referenced to the North American Datum 1983, 2011 adjustment, expressed in meters. All vertical control was based on the North American Vertical Datum of 1988 (NAVD88) with GEOID12B applied to model the elevations, also expressed in meters. The coordinates for the ground control survey can be found in Section 2 of this report.

## Accuracy Statement

The GPS adjustment indicates that the survey control network meets or exceeds the standards set forth by ASPRS in support of LiDAR data with 0.7 meter average point density.



## Section 2: Ground Control Station Coordinate Listings

This section includes a complete listing of the final coordinates, orthometric heights, and ellipsoid heights for the USGS Mississippi NRCS FY16 LiDAR Project.

### USGS NATCHEZ TRACE 2016 LiDAR CONTROL

*Horizontal Datum: NAD 83 (2011)*  
*Vertical Datum: NAVD 88*  
*Units: Meters*  
*UTM Zone: UTM 15 North*  
*Geoid Model: Geoid 12B*  
*Coordinate System: Grid*  
*Date: March 2017*

LiDAR Control and/or Quality Control Stations:				
Station Name	Northing (M)	Easting (M)	Elevation (M)	Station Description
1	3438342.21	642244.87	118.46	SHORT GRASS
2	3440233.89	638586.75	19.34	CORNER OF STOP BAR
3	3472702.46	652437.28	36.43	CORNER OF STOP BAR
4	3447548.84	647126.70	34.28	CORNER OF STOP BAR
5	3489754.23	648180.37	25.63	LIGHT ASPHALT
6	3498621.68	664912.15	93.16	LIGHT ASPHALT
7	3481034.75	659352.75	112.26	CL ASPHALT RD AT DRIVEWAY
8	3459839.13	658887.67	39.39	CORNER OF STOP BAR
9	3440629.16	667245.64	117.09	CORNER OF PAINT STRIPE
10	3431348.58	681394.87	91.27	EDGE OF PAINT STRIPE
11	3459610.46	675813.61	89.94	GRAVEL
12	3480312.28	680309.90	62.29	CL ASPHALT RD
13	3449245.31	709189.67	108.24	EDGE OF PAINT STRIPE
14	3453160.38	688886.33	124.27	CORNER CONC
15	3437611.40	700446.99	89.88	CORNER OF STOP BAR
16	3440975.49	719769.21	106.10	EDGE OF PAINT STRIPE
17	3458511.35	727121.37	137.82	GRAVEL
18	3466552.33	706860.41	139.26	CORNER OF STOP BAR
19	3483812.60	705305.81	89.21	TIP OF ARROW
20	3495062.97	692251.07	102.61	LIGHT ASPHALT
21	3489480.04	722514.29	96.14	CL ASPHALT RD
22	3509175.97	711662.88	116.81	CL GRAVEL RD



LiDAR Control and/or Quality Control Stations:				
Station Name	Northing (M)	Easting (M)	Elevation (M)	Station Description
23	3505074.18	678033.71	103.46	CL ASPHALT RD
24	3499347.69	704550.28	149.08	ASPHALT/GRAVEL
25	3511319.99	686763.22	67.64	EDGE OF PAINT STRIPE
26	3507793.50	699449.33	115.19	EDGE OF PAINT STRIPE
27	3516305.90	706890.25	76.32	CL GRAVEL RD
28	3518463.26	692078.72	89.24	CL ASPHALT RD
29	3527550.81	702302.89	61.73	CL ASPHALT RD
30	3527378.98	677170.79	76.29	CORNER OF STOP BAR
31	3514060.84	672832.63	38.27	CORNER OF STOP BAR
31A	3514048.65	672832.07	38.66	SHORT GRASS
32	3510300.75	666935.60	63.39	ASPHALT
33	3500663.10	656663.06	80.81	ASPHALT
34	3470825.70	696472.74	81.03	CORNER OF STOP BAR
35	3541502.06	701707.31	49.18	CORNER OF STOP BAR
36	3536324.73	690216.27	52.62	CORNER OF STOP BAR
37	3544364.21	684400.24	58.68	CORNER OF STOP BAR
38	3559152.68	694008.82	56.48	CORNER OF STOP BAR
39	3558408.45	712358.75	72.35	CORNER OF STOP BAR
40	3580686.77	704557.08	68.91	CORNER OF STOP BAR
41	3600301.30	712145.86	44.63	CL ASPHALT RD
42	3583868.44	719444.16	50.94	ASPHALT
43	3570087.55	711780.81	35.63	GRAVEL
44	3568937.09	733079.67	60.99	CORNER OF STOP BAR
45	3573996.99	723876.08	52.85	CL ASPHALT RD
46	3594115.00	714899.06	107.26	CORNER OF STOP BAR
47	3596738.99	736070.33	93.41	CORNER OF STOP BAR
48	3559262.56	738398.26	93.51	EDGE OF PAINT STRIPE
49	3564540.73	724051.47	106.85	CORNER OF STOP BAR
50	3554511.52	747847.92	123.52	CORNER OF STOP BAR
51	3552961.52	742784.47	104.84	TIP OF ARROW
52	3550593.36	756685.03	94.35	CORNER OF STOP BAR
53	3567642.53	750126.59	133.80	CORNER OF STOP BAR
54	3589871.06	735320.27	80.52	EDGE OF PAINT STRIPE
55	3583473.52	738610.95	68.49	CORNER OF STOP BAR
56	3581867.44	749660.00	98.23	ASPHALT
57	3593430.65	746793.06	84.28	CL ASPHALT RD
58	3596979.02	757421.37	76.34	CORNER STOP BAR
59	3586640.64	760551.18	105.69	ASPHALT
60	3592252.56	753001.31	71.33	EDGE OF PAINT STRIPE



LiDAR Control and/or Quality Control Stations:				
Station Name	Northing (M)	Easting (M)	Elevation (M)	Station Description
61	3588373.76	744179.81	97.55	CORNER OF STOP BAR
62	3581211.39	767931.54	88.72	EDGE OF PAINT STRIPE
63	3579165.31	759307.36	98.86	CORNER OF PAINT STRIPE
64	3571457.90	762488.18	99.95	CONCRETE
65	3563637.94	759751.97	80.31	ASPHALT
66	3443061.57	684282.26	113.84	CORNER OF STOP BAR
67	3460271.55	700135.29	126.72	CORNER OF STOP BAR
68	3449716.26	729616.52	131.35	GRAVEL
69	3464172.40	716359.26	134.22	EDGE OF PAINT STRIPE
70	3476098.54	663622.21	61.00	CONCRETE
71	3473348.44	678923.91	43.77	CORNER OF STOP BAR
72	3491376.43	677245.43	118.21	EDGE OF PAINT STRIPE
73	3504995.72	693043.66	146.30	CORNER OF STOP BAR
74	3512455.61	694670.80	92.54	CL GRAVEL RD
75	3518578.84	680700.67	48.24	GRAVEL
76	3526500.43	670303.38	25.08	ASPHALT/GRAVEL
77	3549302.07	696054.41	38.56	CORNER OF STOP BAR
78	3551228.20	710527.28	104.69	CORNER OF STOP BAR
79	3569789.57	702624.57	80.35	CORNER OF STOP BAR
80	3564096.48	706010.23	49.57	GRAVEL
81	3588540.83	708591.02	98.41	CORNER OF STOP BAR
82	3586924.33	716809.89	88.96	ASPHALT
83	3592534.94	723686.40	76.26	GRAVEL
84	3586717.85	732213.61	88.27	CORNER OF STOP BAR
85	3594424.40	732550.72	68.84	CORNER OF STOP BAR
86	3555326.35	725833.23	94.45	CORNER OF STOP BAR
87	3561901.55	747369.67	119.83	CORNER OF STOP BAR
88	3575863.07	744240.51	83.67	CORNER OF STOP BAR
89	3573894.29	755716.26	135.95	CL ASPHALT RD
90	3580789.87	731645.49	69.22	EDGE OF PAINT STRIPE
91	3587878.01	768360.78	94.22	EDGE OF PAINT STRIPE
92	3569047.11	758874.00	100.21	EDGE OF PAINT STRIPE
93	3431771.29	630421.02	21.27	GRAVEL
94	3451355.51	630385.25	19.94	EDGE OF PAINT STRIPE
95	3455882.05	628726.98	23.58	GRAVEL
96	3496970.47	641067.17	18.74	LIGHT ASPHALT
97	3436172.49	635732.34	22.28	GRAVEL
98	3429972.34	657717.75	98.28	CORNER CONC
99	3445262.38	664516.09	107.26	LIGHT ASPHALT
100	3535192.31	670179.83	28.09	GRAVEL
101	3555312.52	671559.42	24.77	ASPHALT



LiDAR Control and/or Quality Control Stations:				
Station Name	Northing (M)	Easting (M)	Elevation (M)	Station Description
102	3588211.49	776024.68	83.58	EDGE OF PAINT STRIPE
2001	3438393.71	642432.38	115.05	GRAVEL
2002	3440023.58	638385.71	17.36	GRAVEL
2003	3473582.58	652290.81	50.30	GRAVEL
2004	3447423.77	646164.92	28.54	GRAVEL
2005	3489983.28	647970.25	25.23	LIGHT ASPHALT
2006	3498250.45	664846.88	92.45	SHORT GRASS
2007	3480705.58	658981.98	113.10	ASPHALT
2008	3459498.91	658363.17	38.27	SHORT GRASS
2009	3440939.05	667355.86	109.96	GRAVEL
2010	3431790.40	681333.28	104.41	GRAVEL
2011	3459977.26	676458.16	95.11	CORNER OF STOP BAR
2012	3480805.06	680203.51	66.77	GRAVEL
2013	3449771.49	710868.73	124.21	CONCRETE
2014	3451963.54	688156.59	116.91	LIGHT ASPHALT
2015	3437597.32	699907.07	103.73	GRAVEL
2016	3441559.75	719017.75	99.97	GRAVEL
2017	3458232.01	726652.14	136.85	GRAVEL
2018	3466683.34	707536.84	125.17	LIGHT ASPHALT
2019	3484251.51	706235.88	80.08	GRAVEL
2020	3495179.29	691631.58	108.80	GRAVEL
2021	3489259.56	721969.05	99.60	CORNER OF STOP BAR
2022	3508683.33	711198.37	128.67	GRAVEL
2023	3504757.69	678028.52	95.54	GRAVEL
2024	3499001.32	704570.18	149.85	GRAVEL
2025	3511623.01	686690.22	65.30	LIGHT ASPHALT
2026	3507682.74	699035.14	113.97	EDGE OF PAINT STRIPE
2027	3516278.28	706448.24	87.18	LIGHT ASPHALT
2028	3518924.52	691487.69	81.94	LIGHT ASPHALT
2029	3527896.00	701752.23	69.90	GRAVEL
2030	3528145.89	677029.35	76.02	GRAVEL
2031	3513900.26	673047.76	45.67	GRAVEL
2032	3509606.98	667140.19	69.21	GRAVEL
2033	3500284.95	656050.37	81.20	LIGHT ASPHALT
2034	3471309.99	696478.17	82.32	GRAVEL
2035	3542389.87	701589.06	38.15	ASPHALT
2036	3536218.23	690398.33	54.69	CONCRETE
2037	3544043.77	684695.22	53.45	ASPHALT
2038	3559571.98	693899.42	39.46	SHORT GRASS
2039	3558409.11	712774.71	76.41	ASPHALT
2040	3580300.10	704399.63	77.13	ASPHALT
2041	3599279.39	712619.19	89.48	CORNER OF STOP BAR

LiDAR Control and/or Quality Control Stations:				
Station Name	Northing (M)	Easting (M)	Elevation (M)	Station Description
2042	3583858.89	719736.49	50.68	CORNER OF STOP BAR
2043	3569826.36	712078.49	34.07	GRAVEL
2044	3568973.67	733690.66	59.44	LIGHT ASPHALT
2045	3574326.93	724437.49	54.78	CORNER OF STOP BAR
2046	3594362.60	715075.57	105.54	GRAVEL
2047	3596830.81	735698.08	85.02	GRAVEL
2048	3559050.14	738776.30	104.28	GRAVEL
2049	3564541.57	723610.42	105.67	LIGHT ASPHALT
2050	3554580.22	747605.47	131.98	LIGHT ASPHALT
2051	3552614.06	742751.32	99.40	GRAVEL
2052	3550522.38	757420.83	100.00	GRAVEL
2053	3567394.82	750131.88	132.92	GRAVEL
2054	3590035.00	735448.37	81.55	LIGHT ASPHALT
2055	3583323.61	738209.19	63.27	LIGHT ASPHALT
2056	3581870.45	749961.53	93.46	CONCRETE
2057	3593602.30	746988.01	82.22	GRAVEL
2058	3597269.59	757424.39	83.54	GRAVEL
2059	3586930.47	760665.51	108.74	LIGHT ASPHALT
2060	3592483.83	753352.25	71.63	LIGHT ASPHALT
2061	3588523.51	743856.58	98.99	CORNER OF STOP BAR
2062	3581316.97	767785.55	89.42	LIGHT ASPHALT
2063	3579032.01	759661.59	97.20	GRAVEL
2064	3571725.23	762424.84	103.33	LIGHT ASPHALT
2065	3563827.87	759216.82	79.73	LIGHT ASPHALT
2066	3442663.14	684291.38	116.15	GRAVEL
2067	3460689.26	700139.65	130.00	LIGHT ASPHALT
2068	3449393.65	729531.08	127.63	GRAVEL
2069	3464052.83	716735.24	136.76	GRAVEL
2070	3475764.14	663795.42	58.09	CORNER OF STOP BAR
2071	3473256.56	679381.79	51.88	GRAVEL
2072	3491250.74	677622.11	119.85	LIGHT ASPHALT
2073	3504953.82	692486.66	136.93	GRAVEL
2074	3512875.81	694569.16	86.79	GRAVEL
2075	3518476.33	680416.40	45.96	GRAVEL
2076	3526521.72	670723.01	36.89	CL ASPHALT RD
2077	3548932.98	695960.87	51.86	SHORT GRASS
2078	3551577.40	710148.27	99.14	SHORT GRASS/BRUSH
2079	3569748.35	703194.72	79.37	ASPHALT
2080	3563719.98	706093.62	47.57	ASPHALT
2081	3588411.33	709129.21	84.54	ASPHALT
2082	3587202.70	717382.94	92.26	GRAVEL
2083	3592980.52	723654.83	73.39	GRAVEL
2084	3586847.24	732550.30	95.67	CORNER OF STOP BAR



LIDAR Control and/or Quality Control Stations:				
Station Name	Northing (M)	Easting (M)	Elevation (M)	Station Description
2085	3595089.84	732746.18	53.81	CL ASPHALT RD
2086	3555648.31	726166.52	88.02	GRAVEL
2087	3562093.82	747374.71	122.31	GRAVEL
2088	3575718.37	743872.84	82.44	LIGHT ASPHALT
2089	3574118.34	755555.01	142.43	LIGHT ASPHALT
2090	3581088.50	732459.55	77.09	GRAVEL
2091	3588327.54	768269.49	95.81	LIGHT ASPHALT
2092	3568711.64	759190.69	102.67	ASPHALT
2093	3559331.79	754626.88	115.73	CORNER OF STOP BAR
2094	3550008.20	734278.45	83.54	CORNER OF STOP BAR
2095	3559277.98	732104.22	70.11	CORNER OF STOP BAR
2096	3566420.80	741154.60	73.79	LIGHT ASPHALT
2097	3576589.54	713325.18	51.63	ASPHALT
2098	3573101.52	720114.26	38.93	CORNER OF STOP BAR
2099	3567821.72	717874.29	39.32	CORNER OF STOP BAR
2100	3569385.05	724441.98	58.94	LIGHT ASPHALT
2101	3580610.71	726254.67	80.57	CONCRETE
2102	3588291.70	726698.80	78.96	ASPHALT
2103	3560553.16	717268.87	81.28	CORNER OF STOP BAR
2104	3554814.22	717340.96	78.27	CORNER OF STOP BAR
2105	3542740.36	714090.82	57.35	ASPHALT
2106	3537891.36	704117.18	55.50	CONCRETE
2107	3524378.30	708074.23	80.97	SHORT GRASS
2108	3497641.49	721752.91	141.66	LIGHT ASPHALT
2109	3479902.22	717125.49	102.81	GRAVEL
2110	3458314.09	711980.33	130.29	GRAVEL
2111	3432318.77	711983.57	106.05	GRAVEL
2112	3439405.02	733390.76	102.64	GRAVEL
2113	3453028.14	719031.80	99.70	GRAVEL
2114	3447107.90	697601.33	114.95	LIGHT ASPHALT
2115	3462033.30	687340.08	75.23	LIGHT ASPHALT
2116	3486192.78	688723.10	125.68	LIGHT ASPHALT
2117	3455553.68	667815.00	40.79	LIDAR PID
2118	3486013.42	667947.15	116.50	ASPHALT
2119	3501439.33	684895.36	141.57	GRAVEL
2120	3451911.85	678364.90	113.41	GRAVEL
3001	3438327.56	642191.59	121.60	WOODS
3002	3440260.73	638622.09	19.08	BRUSH
3003	3472730.75	652463.61	34.91	SHORT GRASS
3004	3447526.15	647106.28	32.92	WOODS
3005	3489740.14	648165.69	21.11	TALL GRASS
3006	3498651.43	664951.65	91.79	WOODS
3007	3481067.48	659395.37	111.33	WOODS

LiDAR Control and/or Quality Control Stations:				
Station Name	Northing (M)	Easting (M)	Elevation (M)	Station Description
3008	3459888.40	658812.47	48.38	WOODS
3009	3440665.05	667185.09	113.31	TALL GRASS
3010	3431348.96	681417.96	91.04	BRUSH
3011	3459581.59	675825.52	91.27	WOODS/BRUSH
3012	3480308.56	680340.93	62.25	SHORT GRASS/BRUSH
3013	3449257.95	709066.89	107.78	SHORT GRASS
3014	3453228.60	688934.35	121.11	SHORT GRASS
3015	3437629.72	700384.31	88.66	TALL GRASS/BRUSH
3016	3441018.69	719787.30	106.76	SHORT GRASS
3017	3458525.29	727097.68	136.97	SHORT GRASS
3018	3466532.57	706829.21	139.15	SHORT GRASS
3019	3483782.87	705231.81	89.94	SHORT GRASS
3020	3495080.37	692267.59	101.29	TALL GRASS
3021	3489460.74	722546.55	97.07	SHORT GRASS
3022	3509134.54	711576.21	119.08	SHORT GRASS
3023	3505057.76	678046.41	102.85	SHORT GRASS/BRUSH
3024	3499382.42	704563.55	148.04	SHORT GRASS
3025	3511311.76	686797.30	68.59	BRUSH
3026	3507816.84	699437.91	115.39	SHORT GRASS
3027	3516318.14	706858.18	76.36	BRUSH
3028	3518443.43	692071.69	89.40	SHORT GRASS
3029	3527542.08	702290.49	62.41	TALL WEEDS
3030	3527405.10	677242.16	72.04	WOODS
3031	3514105.95	672795.47	32.13	WOODS
3032	3510332.91	666916.74	63.72	WOODS
3033	3500707.27	656656.19	82.17	WOODS
3034A	3470932.78	696559.36	73.75	SHORT GRASS
3035	3541477.21	701703.91	49.96	WOODS/TALL GRASS
3036	3536292.96	690216.96	53.65	SHORT GRASS
3037	3544380.91	684400.19	58.91	TALL GRASS BRUSH
3038	3559179.75	694111.29	69.45	WOODS
3039	3558425.29	712311.24	73.37	WOODS
3040	3580680.97	704548.19	68.84	SHORT GRASS
3041	3600318.61	712149.38	44.38	WOODS
3042	3583856.17	719521.79	51.12	SHORT GRASS
3043	3570092.72	711765.46	35.50	SHORT GRASS
3044	3568882.45	733067.28	58.57	SHORT BRUSH
3045	3573982.53	723890.33	52.56	SHORT GRASS
3046	3594141.88	714932.77	106.58	WOODS
3047	3596725.68	736050.48	94.44	WOODS
3048	3559310.95	738347.75	92.25	SHORT GRASS
3049	3564539.75	724037.57	106.44	SHORT GRASS
3050	3554473.46	747866.78	121.63	SHORT GRASS



LiDAR Control and/or Quality Control Stations:				
Station Name	Northing (M)	Easting (M)	Elevation (M)	Station Description
3051	3552934.70	742820.32	102.77	SHORT GRASS
3052	3550592.00	756650.23	94.12	SHORT GRASS
3053	3567613.77	750122.45	135.49	SHORT GRASS
3054	3589858.48	735331.60	80.16	SHORT GRASS
3055	3583497.32	738632.21	63.89	SHORT GRASS
3056	3581871.48	749633.84	101.64	SHORT GRASS
3057	3593488.95	746759.33	84.89	SHORT GRASS
3058	3597001.18	757408.44	75.21	SHORT GRASS
3059	3586645.25	760588.12	105.18	SHORT GRASS
3060	3592262.29	752973.04	70.68	SHORT GRASS
3061	3588351.12	744164.64	95.45	SHORT GRASS
3062	3581221.12	767952.05	88.28	SHORT GRASS
3063	3579180.63	759261.04	99.29	SHORT GRASS
3064	3571469.39	762443.71	100.21	SHORT GRASS
3065	3563636.08	759685.66	79.66	BRUSH
3066	3443001.37	684311.46	115.67	BRUSH
3067	3460370.63	700165.71	127.22	SHORT GRASS
3068	3449707.60	729591.50	130.80	BRUSH
3069	3464148.08	716373.47	134.46	SHORT GRASS/WOODS
3070	3476075.43	663603.93	59.69	WOODS
3071A	3473384.10	678947.01	42.71	SHORT GRASS
3072	3491387.52	677280.44	117.04	SHORT GRASS
3073	3505017.64	693024.20	145.36	SHORT GRASS
3074	3512473.37	694719.29	95.08	WOODS
3075	3518567.46	680696.83	48.31	SHORT GRASS
3076	3526483.93	670295.34	24.89	SHORT GRASS
3077	3549277.38	696013.84	39.17	TALL GRASS AND TREES
3078	3551227.21	710493.23	102.63	SHORT GRASS
3079	3569732.17	702562.41	77.35	WOODS
3080	3564096.59	706023.60	48.97	SHORT GRASS
3081	3588549.64	708545.31	100.49	WOODS
3082	3586933.04	716803.45	88.85	WOODS
3083	3592543.53	723720.65	77.31	WOODS
3084	3586731.46	732222.38	87.87	SHORT GRASS
3085	3594472.95	732576.01	68.15	SHORT GRASS
3086	3555438.98	725862.81	93.97	SHORT GRASS
3087	3561913.26	747401.13	119.10	SHORT GRASS
3088	3575863.56	744221.95	82.77	SHORT GRASS
3089	3573935.39	755745.94	135.13	BRUSH
3090	3580770.61	731657.68	69.17	SHORT GRASS



**Woolpert Base Stations, Geodetic Control Stations, and/or Geodetic Control Station Checks:**

Station Name	Northing (M)	Easting (M)	Elevation (M)	PID
1001	3507849.23	684760.13	101.56	N/A (OPUS)
1LSU	3365337.43	674803.37	21.89	DF5754
61 V 78	3534413.08	689547.33	80.97	BW0507
AMIT	3453477.97	689590.94	122.94	DN4038
AP 22	3553673.34	724394.79	76.10	DN3845
B 338	3543804.87	676273.99	30.44	CP2278
BOSSLER	3600560.13	749185.33	66.56	CP3169
D 337	3499961.93	640171.55	20.96	BW1848
D 712	3456302.75	662189.36	38.65	DN4078
D 717	3492071.72	650517.62	53.08	DW4083
DS 72	3489164.00	723235.23	95.94	DN4068
F 19	3450929.46	714835.51	125.87	BW0395
F 363	3580917.89	701497.15	78.18	CP3406
G 208 RESET 1976	3431161.37	618388.82	14.22	BW0055
G 363	3582169.46	721838.83	45.24	CP3410
H 376	3488180.90	682088.93	88.22	DL9111
L 24 49 USE	3551581.38	672059.80	24.13	CP2287
LIBE	3449779.65	710791.13	122.40	DN4037
LSUA	3449563.29	555999.47	32.78	DF7992
MEADVILLE	3483849.08	700722.43	110.36	BW0421
MSBU	3482857.74	705461.91	76.80	(N/A) TRIMBLE CORS
MSFR	3585569.88	822487.74	149.89	(N/A) TRIMBLE CORS
MSMC	3461945.45	740225.45	140.00	(N/A) TRIMBLE CORS
MSMN	3536622.44	800723.66	131.14	(N/A) TRIMBLE CORS
MSNA	3492904.12	651419.46	72.99	(N/A) TRIMBLE CORS
MSPG	3529221.43	688607.96	63.22	(N/A) TRIMBLE CORS
MSVC	3579328.67	704687.07	77.13	(N/A) TRIMBLE CORS
MSWS	3509247.53	746497.90	160.79	(N/A) TRIMBLE CORS
MSYZ	3637222.34	742215.98	51.24	(N/A) TRIMBLE CORS
PLEASANT AZ MK	3511882.05	714689.96	146.37	CY4479
Q 337	3522059.89	655332.56	28.42	BW1870
TALL	3586263.13	670887.46	33.90	DG5002
TERRY RESET	3554745.75	754762.20	97.40	CP0221
THHR	3377802.83	588200.76	30.15	DL8639
VHM 3	3574594.83	702259.58	40.10	DF9045
WASHINGTON	3495006.60	661347.12	85.44	BW0892
Y 362	3577452.18	767247.41	80.24	CP3432



## USGS NATCHEZ TRACE 2016 LiDAR CONTROL

Horizontal Datum: NAD 83 (2011)  
 Vertical Datum: NAVD 88  
 Units: Meters  
 UTM Zone: UTM 15 North  
 Geoid Model: Geoid 12B  
 Coordinate System: Geographic  
 Date: March 2017

LiDAR Control and/or Quality Control Stations:				
Station Name	Latitude	Longitude	Height	Station Description
			(M)	
1	N31°04'12.88177"	W91°30'32.32997"	91.49	SHORT GRASS
2	N31°05'15.88520"	W91°32'49.39809"	-7.65	CORNER OF STOP BAR
3	N31°22'43.94599"	W91°23'49.03364"	9.90	CORNER OF STOP BAR
4	N31°09'09.66649"	W91°27'23.33181"	7.38	CORNER OF STOP BAR
5	N31°31'59.58969"	W91°26'20.96368"	-0.66	LIGHT ASPHALT
6	N31°36'39.29957"	W91°15'41.38513"	66.99	LIGHT ASPHALT
7	N31°27'11.12890"	W91°19'22.50895"	85.87	CL ASPHALT RD AT DRIVEWAY
8	N31°15'43.18104"	W91°19'52.29374"	12.69	CORNER OF STOP BAR
9	N31°05'15.27150"	W91°14'47.89799"	90.21	CORNER OF PAINT STRIPE
10	N31°00'06.40546"	W91°06'00.11320"	64.26	EDGE OF PAINT STRIPE
11	N31°15'27.00624"	W91°09'12.71975"	63.31	GRAVEL
12	N31°26'36.59693"	W91°06'09.31465"	35.96	CL ASPHALT RD
13	N31°09'30.72420"	W90°48'19.31495"	81.56	EDGE OF PAINT STRIPE
14	N31°11'50.25437"	W91°01'03.07376"	97.63	CORNER CONC
15	N31°03'18.58401"	W90°53'57.63833"	62.96	CORNER OF STOP BAR
16	N31°04'55.33286"	W90°41'46.50295"	79.23	EDGE OF PAINT STRIPE
17	N31°14'19.41383"	W90°36'55.00303"	111.37	GRAVEL
18	N31°18'53.98361"	W90°49'34.37378"	112.92	CORNER OF STOP BAR
19	N31°28'15.21741"	W90°50'20.32207"	63.06	TIP OF ARROW
20	N31°34'28.49404"	W90°58'26.85500"	76.52	LIGHT ASPHALT
21	N31°31'07.68402"	W90°39'24.09731"	70.09	CL ASPHALT RD
22	N31°41'54.28214"	W90°45'59.96762"	90.88	CL GRAVEL RD
23	N31°40'01.71969"	W91°07'19.41547"	77.36	CL ASPHALT RD
24	N31°36'39.93487"	W90°50'37.34650"	123.08	ASPHALT/GRAVEL
25	N31°43'19.46659"	W91°01'43.80123"	41.58	EDGE OF PAINT STRIPE
26	N31°41'17.29892"	W90°53'44.63815"	89.20	EDGE OF PAINT STRIPE
27	N31°45'48.83132"	W90°48'55.71238"	50.35	CL GRAVEL RD
28	N31°47'08.16593"	W90°58'16.88486"	63.18	CL ASPHALT RD
29	N31°51'56.76179"	W90°51'41.57266"	35.64	CL ASPHALT RD

LiDAR Control and/or Quality Control Stations:				
Station Name	Latitude	Longitude	Height	Station Description
			(M)	
30	N31°52'06.26683"	W91°07'37.59385"	50.14	CORNER OF STOP BAR
31	N31°44'56.32228"	W91°10'31.12120"	12.14	CORNER OF STOP BAR
31A	N31°44'55.92667"	W91°10'31.15033"	12.54	SHORT GRASS
32	N31°42'57.40740"	W91°14'17.46948"	37.25	ASPHALT
33	N31°37'49.73224"	W91°20'53.16305"	54.62	ASPHALT
34	N31°21'19.18544"	W90°56'04.09114"	54.66	CORNER OF STOP BAR
35	N31°59'29.94816"	W90°51'53.76179"	22.96	CORNER OF STOP BAR
36	N31°56'49.05650"	W90°59'15.06864"	26.42	CORNER OF STOP BAR
37	N32°01'13.47191"	W91°02'50.95038"	32.39	CORNER OF STOP BAR
38	N32°09'07.67894"	W90°56'34.13340"	30.07	CORNER OF STOP BAR
39	N32°08'31.60446"	W90°44'54.70252"	45.96	CORNER OF STOP BAR
40	N32°20'39.82137"	W90°49'35.08117"	42.34	CORNER OF STOP BAR
41	N32°31'11.23954"	W90°44'29.11832"	18.03	CL ASPHALT RD
42	N32°22'12.89889"	W90°40'03.34668"	24.35	ASPHALT
43	N32°14'51.01191"	W90°45'07.42958"	9.10	GRAVEL
44	N32°13'58.47989"	W90°31'35.19120"	34.48	CORNER OF STOP BAR
45	N32°16'49.41457"	W90°37'22.26957"	26.30	CL ASPHALT RD
46	N32°27'48.58731"	W90°42'48.75061"	80.69	CORNER OF STOP BAR
47	N32°28'58.27495"	W90°29'16.10571"	66.77	CORNER OF STOP BAR
48	N32°08'40.56007"	W90°28'20.84692"	67.10	EDGE OF PAINT STRIPE
49	N32°11'42.43973"	W90°37'23.56766"	80.39	CORNER OF STOP BAR
50	N32°05'59.07563"	W90°22'24.91153"	97.13	CORNER OF STOP BAR
51	N32°05'12.74924"	W90°25'39.31721"	78.48	TIP OF ARROW
52	N32°03'44.85192"	W90°16'51.87309"	67.98	CORNER OF STOP BAR
53	N32°13'03.27201"	W90°20'45.71473"	107.34	CORNER OF STOP BAR
54	N32°25'16.01674"	W90°29'50.98233"	53.93	EDGE OF PAINT STRIPE
55	N32°21'45.93196"	W90°27'50.91330"	41.92	CORNER OF STOP BAR
56	N32°20'45.13324"	W90°20'50.08766"	71.72	ASPHALT
57	N32°27'02.56325"	W90°22'28.79650"	57.66	CL ASPHALT RD
58	N32°28'49.00298"	W90°15'38.67928"	49.67	CORNER STOP BAR
59	N32°23'11.01995"	W90°13'49.16763"	79.21	ASPHALT
60	N32°26'19.32817"	W90°18'32.40429"	44.73	EDGE OF PAINT STRIPE
61	N32°24'20.57806"	W90°24'13.48949"	70.97	CORNER OF STOP BAR
62	N32°20'08.62338"	W90°09'12.55388"	62.32	EDGE OF PAINT STRIPE
63	N32°19'09.57076"	W90°14'44.07667"	72.49	CORNER OF PAINT STRIPE
64	N32°14'56.88323"	W90°12'50.21826"	73.58	CONCRETE
65	N32°10'45.49871"	W90°14'42.32271"	53.86	ASPHALT
66	N31°06'25.05094"	W91°04'03.60676"	87.02	CORNER OF STOP BAR
67	N31°15'34.34486"	W90°53'53.16658"	100.23	CORNER OF STOP BAR
68	N31°09'32.22137"	W90°35'27.99780"	104.69	GRAVEL



LIDAR Control and/or Quality Control Stations:				
Station Name	Latitude	Longitude	Height	Station Description
			(M)	
69	N31°17'30.51738"	W90°43'37.11823"	107.87	EDGE OF PAINT STRIPE
70	N31°24'28.72010"	W91°16'43.73985"	34.53	CONCRETE
71	N31°22'51.29781"	W91°07'06.31093"	17.33	CORNER OF STOP BAR
72	N31°32'37.48642"	W91°07'58.21821"	92.01	EDGE OF PAINT STRIPE
73	N31°39'50.43272"	W90°57'49.78420"	120.28	CORNER OF STOP BAR
74	N31°43'51.58440"	W90°56'42.69502"	66.52	CL GRAVEL RD
75	N31°47'18.60488"	W91°05'29.20644"	22.13	GRAVEL
76	N31°51'41.52058"	W91°11'59.38188"	-1.10	ASPHALT/GRAVEL
77	N32°03'46.68618"	W90°55'23.33507"	12.26	CORNER OF STOP BAR
78	N32°04'39.81999"	W90°46'10.23055"	78.39	CORNER OF STOP BAR
79	N32°14'47.43076"	W90°50'57.31966"	53.84	CORNER OF STOP BAR
80	N32°11'40.44875"	W90°48'52.45086"	23.11	GRAVEL
81	N32°24'52.01793"	W90°46'54.64130"	71.82	CORNER OF STOP BAR
82	N32°23'53.91597"	W90°41'41.55253"	62.38	ASPHALT
83	N32°26'51.08158"	W90°37'13.76396"	49.67	GRAVEL
84	N32°23'36.05334"	W90°31'52.60932"	61.69	CORNER OF STOP BAR
85	N32°27'45.84709"	W90°31'32.88889"	42.23	CORNER OF STOP BAR
86	N32°06'42.15590"	W90°36'23.39551"	68.10	CORNER OF STOP BAR
87	N32°09'59.21350"	W90°22'36.27570"	93.39	CORNER OF STOP BAR
88	N32°17'34.64183"	W90°24'22.76523"	57.15	CORNER OF STOP BAR
89	N32°16'21.55242"	W90°17'06.36922"	109.55	CL ASPHALT RD
90	N32°20'24.13623"	W90°32'19.55191"	42.66	EDGE OF PAINT STRIPE
91	N32°23'44.49301"	W90°08'49.35958"	67.68	EDGE OF PAINT STRIPE
92	N32°13'41.70121"	W90°15'10.53554"	73.79	EDGE OF PAINT STRIPE
93	N31°00'44.44049"	W91°38'01.44445"	-5.79	GRAVEL
94	N31°11'20.42926"	W91°37'53.68157"	-6.96	EDGE OF PAINT STRIPE
95	N31°13'48.08385"	W91°38'54.23048"	-3.24	GRAVEL
96	N31°35'57.11171"	W91°30'46.90113"	-7.47	LIGHT ASPHALT
97	N31°03'05.19971"	W91°34'39.06591"	-4.75	GRAVEL
98	N30°59'33.99689"	W91°20'53.34327"	71.26	CORNER CONC
99	N31°07'47.09364"	W91°16'28.15471"	80.42	LIGHT ASPHALT
100	N31°56'23.75137"	W91°11'58.58966"	1.84	GRAVEL
101	N32°07'16.14573"	W91°10'53.17093"	-1.60	ASPHALT
102	N32°23'48.57736"	W90°03'56.02461"	56.91	EDGE OF PAINT STRIPE
2001	N31°04'14.47215"	W91°30'25.22991"	88.08	GRAVEL
2002	N31°05'09.14125"	W91°32'57.08751"	-9.64	GRAVEL
2003	N31°23'12.59188"	W91°23'54.09205"	23.78	GRAVEL
2004	N31°09'06.03912"	W91°27'59.71080"	1.64	GRAVEL
2005	N31°32'07.12391"	W91°26'28.80523"	-1.06	LIGHT ASPHALT
2006	N31°36'27.28111"	W91°15'44.08498"	66.27	SHORT GRASS
2007	N31°27'00.62540"	W91°19'36.74122"	86.70	ASPHALT

LiDAR Control and/or Quality Control Stations:				
Station Name	Latitude	Longitude	Height	Station Description
			(M)	
2008	N31°15'32.39151"	W91°20'12.31232"	11.57	SHORT GRASS
2009	N31°05'25.27636"	W91°14'43.55507"	83.08	GRAVEL
2010	N31°00'20.78351"	W91°06'02.14998"	77.40	GRAVEL
2011	N31°15'38.56376"	W91°08'48.12821"	68.49	CORNER OF STOP BAR
2012	N31°26'52.65413"	W91°06'13.02088"	40.44	GRAVEL
2013	N31°09'46.71815"	W90°47'15.54287"	97.54	CONCRETE
2014	N31°11'11.82502"	W91°01'31.43971"	90.24	LIGHT ASPHALT
2015	N31°03'18.45806"	W90°54'18.00659"	76.80	GRAVEL
2016	N31°05'14.80196"	W90°42'14.38574"	73.12	GRAVEL
2017	N31°14'10.67658"	W90°37'12.95373"	110.39	GRAVEL
2018	N31°18'57.80202"	W90°49'08.70179"	98.83	LIGHT ASPHALT
2019	N31°28'28.86746"	W90°49'44.77122"	53.95	GRAVEL
2020	N31°34'32.64172"	W90°58'50.26154"	82.71	GRAVEL
2021	N31°31'00.90689"	W90°39'44.93181"	73.55	CORNER OF STOP BAR
2022	N31°41'38.60192"	W90°46'17.98290"	102.74	GRAVEL
2023	N31°39'51.44859"	W91°07'19.81928"	69.44	GRAVEL
2024	N31°36'28.67986"	W90°50'36.85100"	123.86	GRAVEL
2025	N31°43'29.34562"	W91°01'46.36556"	39.24	LIGHT ASPHALT
2026	N31°41'13.96286"	W90°54'00.44163"	87.98	EDGE OF PAINT STRIPE
2027	N31°45'48.22250"	W90°49'12.52483"	61.20	LIGHT ASPHALT
2028	N31°47'23.49533"	W90°58'39.01870"	55.88	LIGHT ASPHALT
2029	N31°52'08.31732"	W90°52'02.25685"	43.81	GRAVEL
2030	N31°52'31.24147"	W91°07'42.47071"	49.86	GRAVEL
2031	N31°44'50.99221"	W91°10'23.05061"	19.55	GRAVEL
2032	N31°42'34.77709"	W91°14'10.12613"	43.07	GRAVEL
2033	N31°37'37.75500"	W91°21'16.62832"	55.01	LIGHT ASPHALT
2034	N31°21'34.90244"	W90°56'03.54196"	55.96	GRAVEL
2035	N31°59'58.83884"	W90°51'57.59762"	11.91	ASPHALT
2036	N31°56'45.48954"	W90°59'08.21337"	28.49	CONCRETE
2037	N32°01'02.89741"	W91°02'39.93283"	27.17	ASPHALT
2038	N32°09'21.35590"	W90°56'38.00176"	13.05	SHORT GRASS
2039	N32°08'31.34326"	W90°44'38.83618"	50.01	ASPHALT
2040	N32°20'27.37609"	W90°49'41.40012"	50.56	ASPHALT
2041	N32°30'37.75204"	W90°44'11.82054"	62.89	CORNER OF STOP BAR
2042	N32°22'12.38169"	W90°39'52.17700"	24.09	CORNER OF STOP BAR
2043	N32°14'42.33342"	W90°44'56.27167"	7.55	GRAVEL
2044	N32°13'59.20938"	W90°31'11.83485"	32.93	LIGHT ASPHALT
2045	N32°16'59.71624"	W90°37'00.54502"	28.23	CORNER OF STOP BAR
2046	N32°27'56.49920"	W90°42'41.79103"	78.96	GRAVEL
2047	N32°29'01.53859"	W90°29'30.27211"	58.39	GRAVEL
2048	N32°08'33.37957"	W90°28'06.62073"	77.87	GRAVEL

LIDAR Control and/or Quality Control Stations:				
Station Name	Latitude	Longitude	Height	Station Description
			(M)	
2049	N32°11'42.78315"	W90°37'40.39781"	79.21	LIGHT ASPHALT
2050	N32°06'01.49638"	W90°22'34.08855"	105.60	LIGHT ASPHALT
2051	N32°05'01.50141"	W90°25'40.89685"	73.04	GRAVEL
2052	N32°03'41.94657"	W90°16'23.91055"	73.63	GRAVEL
2053	N32°12'55.23149"	W90°20'45.74648"	106.46	GRAVEL
2054	N32°25'21.23845"	W90°29'45.93530"	54.96	LIGHT ASPHALT
2055	N32°21'41.37702"	W90°28'06.40698"	36.71	LIGHT ASPHALT
2056	N32°20'44.98854"	W90°20'38.56148"	66.95	CONCRETE
2057	N32°27'07.97602"	W90°22'21.17564"	55.60	GRAVEL
2058	N32°28'58.42601"	W90°15'38.27807"	56.87	GRAVEL
2059	N32°23'20.32564"	W90°13'44.50975"	82.25	LIGHT ASPHALT
2060	N32°26'26.54338"	W90°18'18.75583"	45.02	LIGHT ASPHALT
2061	N32°24'25.69096"	W90°24'25.71195"	72.41	CORNER OF STOP BAR
2062	N32°20'12.17401"	W90°09'18.02431"	63.03	LIGHT ASPHALT
2063	N32°19'04.95073"	W90°14'30.67576"	70.83	GRAVEL
2064	N32°15'05.60836"	W90°12'52.37080"	76.97	LIGHT ASPHALT
2065	N32°10'52.10441"	W90°15'02.55017"	53.28	LIGHT ASPHALT
2066	N31°06'12.11108"	W91°04'03.52468"	89.32	GRAVEL
2067	N31°15'47.90102"	W90°53'52.70123"	103.52	LIGHT ASPHALT
2068	N31°09'21.81177"	W90°35'31.48734"	100.97	GRAVEL
2069	N31°17'26.38507"	W90°43'23.00126"	110.40	GRAVEL
2070	N31°24'17.77509"	W91°16'37.38168"	31.61	CORNER OF STOP BAR
2071	N31°22'48.06038"	W91°06'49.04422"	25.43	GRAVEL
2072	N31°32'33.19734"	W91°07'44.02113"	93.65	LIGHT ASPHALT
2073	N31°39'49.40957"	W90°58'10.95259"	110.91	GRAVEL
2074	N31°44'05.28577"	W90°56'46.25437"	60.77	GRAVEL
2075	N31°47'15.43908"	W91°05'40.07870"	19.85	GRAVEL
2076	N31°51'41.98566"	W91°11'43.40691"	10.71	CL ASPHALT RD
2077	N32°03'34.76507"	W90°55'27.17080"	25.56	SHORT GRASS
2078	N32°04'51.40691"	W90°46'24.40192"	72.84	SHORT GRASS/BRUSH
2079	N32°14'45.72176"	W90°50'35.57783"	52.86	ASPHALT
2080	N32°11'28.17487"	W90°48'49.56010"	21.11	ASPHALT
2081	N32°24'47.45258"	W90°46'34.15486"	57.95	ASPHALT
2082	N32°24'02.54734"	W90°41'19.40417"	65.67	GRAVEL
2083	N32°27'05.56256"	W90°37'14.59185"	46.80	GRAVEL
2084	N32°23'39.99914"	W90°31'39.61925"	69.09	CORNER OF STOP BAR
2085	N32°28'07.29074"	W90°31'24.81714"	27.19	CL ASPHALT RD
2086	N32°06'52.36279"	W90°36'10.41523"	61.67	GRAVEL
2087	N32°10'05.44741"	W90°22'35.90433"	95.87	GRAVEL
2088	N32°17'30.23570"	W90°24'36.94210"	55.92	LIGHT ASPHALT
2089	N32°16'28.95317"	W90°17'12.30959"	116.02	LIGHT ASPHALT

LIDAR Control and/or Quality Control Stations:				
Station Name	Latitude	Longitude	Height	Station Description
			(M)	
2090	N32°20'33.21709"	W90°31'48.17572"	50.53	GRAVEL
2091	N32°23'59.15324"	W90°08'52.39078"	69.25	LIGHT ASPHALT
2092	N32°13'30.55561"	W90°14'58.77732"	76.26	ASPHALT
2093	N32°08'30.01958"	W90°18'01.93977"	89.29	CORNER OF STOP BAR
2094	N32°03'43.39258"	W90°31'06.09274"	57.24	CORNER OF STOP BAR
2095	N32°08'45.79376"	W90°32'20.87109"	43.71	CORNER OF STOP BAR
2096	N32°12'30.69779"	W90°26'29.23676"	47.31	LIGHT ASPHALT
2097	N32°18'20.95881"	W90°44'03.20971"	25.07	ASPHALT
2098	N32°16'23.04006"	W90°39'46.70797"	12.38	CORNER OF STOP BAR
2099	N32°13'33.28269"	W90°41'16.60944"	12.82	CORNER OF STOP BAR
2100	N32°14'19.35382"	W90°37'04.56513"	32.43	LIGHT ASPHALT
2101	N32°20'22.29787"	W90°35'45.74692"	54.00	CONCRETE
2102	N32°24'31.20536"	W90°35'22.15469"	52.37	ASPHALT
2103	N32°09'37.83171"	W90°41'45.67032"	54.87	CORNER OF STOP BAR
2104	N32°06'31.54449"	W90°41'47.60432"	51.94	CORNER OF STOP BAR
2105	N32°00'01.95315"	W90°44'01.19538"	31.15	ASPHALT
2106	N31°57'31.20696"	W90°50'24.73335"	29.33	CONCRETE
2107	N31°50'10.05182"	W90°48'04.53099"	54.94	SHORT GRASS
2108	N31°35'33.08127"	W90°39'46.33786"	115.68	LIGHT ASPHALT
2109	N31°26'00.52954"	W90°42'55.81454"	76.67	GRAVEL
2110	N31°14'23.27114"	W90°46'27.09230"	103.81	GRAVEL
2111	N31°00'19.50082"	W90°46'46.64975"	79.03	GRAVEL
2112	N31°03'54.89938"	W90°33'14.15347"	75.75	GRAVEL
2113	N31°11'27.01865"	W90°42'04.87807"	73.10	GRAVEL
2114	N31°08'28.59298"	W90°55'38.24437"	88.21	LIGHT ASPHALT
2115	N31°16'39.19422"	W91°01'55.49768"	48.69	LIGHT ASPHALT
2116	N31°29'42.65792"	W91°00'46.72394"	99.48	LIGHT ASPHALT
2117	N31°13'19.53978"	W91°14'17.45807"	14.07	LIDAR PID
2118	N31°29'48.38708"	W91°13'53.97673"	90.20	ASPHALT
2119	N31°37'59.81931"	W91°03'01.44450"	115.50	GRAVEL
2120	N31°11'15.67436"	W91°07'41.23121"	86.71	GRAVEL
3001	N31°04'12.42949"	W91°30'34.34714"	94.62	WOODS
3002	N31°05'16.74150"	W91°32'48.05118"	-7.92	BRUSH
3003	N31°22'44.85205"	W91°23'48.02167"	8.38	SHORT GRASS
3004	N31°09'08.93877"	W91°27'24.11473"	6.03	WOODS
3005	N31°31'59.13918"	W91°26'21.52775"	-5.18	TALL GRASS
3006	N31°36'40.24502"	W91°15'39.86866"	65.62	WOODS
3007	N31°27'12.17036"	W91°19'20.87575"	84.94	WOODS
3008	N31°15'44.81768"	W91°19'55.10821"	21.68	WOODS
3009	N31°05'16.46802"	W91°14'50.16108"	86.43	TALL GRASS
3010	N31°00'06.40477"	W91°05'59.24275"	64.02	BRUSH
3011	N31°15'26.06248"	W91°09'12.28781"	64.65	WOODS/BRUSH

LiDAR Control and/or Quality Control Stations:				
Station Name	Latitude	Longitude	Height	Station Description
			(M)	
3012	N31°26'36.45892"	W91°06'08.14219"	35.92	SHORT GRASS/BRUSH
3013	N31°09'31.21344"	W90°48'23.93965"	81.10	SHORT GRASS
3014	N31°11'52.44117"	W91°01'01.21423"	94.46	SHORT GRASS
3015	N31°03'19.21691"	W90°53'59.98854"	61.74	TALL GRASS/BRUSH
3016	N31°04'56.72284"	W90°41'45.78699"	79.90	SHORT GRASS
3017	N31°14'19.88265"	W90°36'55.88653"	110.51	SHORT GRASS
3018	N31°18'53.36227"	W90°49'35.56805"	112.81	SHORT GRASS
3019	N31°28'14.29976"	W90°50'23.14653"	63.79	SHORT GRASS
3020	N31°34'29.04892"	W90°58'26.21636"	75.21	TALL GRASS
3021	N31°31'07.03546"	W90°39'22.89058"	71.03	SHORT GRASS
3022	N31°41'52.99521"	W90°46'03.28954"	93.14	SHORT GRASS
3023	N31°40'01.17973"	W91°07'18.94441"	76.75	SHORT GRASS/BRUSH
3024	N31°36'41.05368"	W90°50'36.81729"	122.04	SHORT GRASS
3025	N31°43'19.17927"	W91°01'42.51272"	42.53	BRUSH
3026	N31°41'18.06346"	W90°53'45.05457"	89.41	SHORT GRASS
3027	N31°45'49.24933"	W90°48'56.92150"	50.39	BRUSH
3028	N31°47'07.52647"	W90°58'17.16626"	63.34	SHORT GRASS
3029	N31°51'56.48638"	W90°51'42.05071"	36.32	TALL WEEDS
3030	N31°52'07.07469"	W91°07'34.86202"	45.88	WOODS
3031	N31°44'57.80674"	W91°10'32.50421"	6.01	WOODS
3032	N31°42'58.46141"	W91°14'18.16596"	37.58	WOODS
3033	N31°37'51.16980"	W91°20'53.39859"	55.98	WOODS
3034A	N31°21'22.60861"	W90°56'00.73850"	47.39	SHORT GRASS
3035	N31°59'29.14375"	W90°51'53.90997"	23.74	WOODS/TALL GRASS
3036	N31°56'48.02467"	W90°59'15.06480"	27.45	SHORT GRASS
3037	N32°01'14.01402"	W91°02'50.94084"	32.63	TALL GRASS BRUSH
3038	N32°09'08.49401"	W90°56'30.20420"	43.04	WOODS
3039	N32°08'32.18338"	W90°44'56.50102"	46.97	WOODS
3040	N32°20'39.63896"	W90°49'35.42544"	42.27	SHORT GRASS
3041	N32°31'11.79900"	W90°44'28.96943"	17.78	WOODS
3042	N32°22'12.44575"	W90°40'00.38841"	24.53	SHORT GRASS
3043	N32°14'51.19028"	W90°45'08.01163"	8.97	SHORT GRASS
3044	N32°13'56.71623"	W90°31'35.71235"	32.07	SHORT BRUSH
3045	N32°16'48.93485"	W90°37'21.73743"	26.02	SHORT GRASS
3046	N32°27'49.43630"	W90°42'47.43837"	80.00	WOODS
3047	N32°28'57.85835"	W90°29'16.87754"	67.81	WOODS
3048	N32°08'42.16887"	W90°28'22.72979"	65.84	SHORT GRASS
3049	N32°11'42.41798"	W90°37'24.09859"	79.98	SHORT GRASS
3050	N32°05'57.82599"	W90°22'24.22790"	95.24	SHORT GRASS
3051	N32°05'11.85120"	W90°25'37.97556"	76.41	SHORT GRASS
3052	N32°03'44.83618"	W90°16'53.20009"	67.75	SHORT GRASS
3053	N32°13'02.34234"	W90°20'45.89964"	109.03	SHORT GRASS
3054	N32°25'15.59997"	W90°29'50.56013"	53.57	SHORT GRASS

LiDAR Control and/or Quality Control Stations:				
Station Name	Latitude	Longitude	Height	Station Description
			(M)	
3055	N32°21'46.68777"	W90°27'50.07891"	37.32	SHORT GRASS
3056	N32°20'45.28537"	W90°20'51.08364"	75.13	SHORT GRASS
3057	N32°27'04.48127"	W90°22'30.03198"	58.28	SHORT GRASS
3058	N32°28'49.73246"	W90°15'39.15242"	48.54	SHORT GRASS
3059	N32°23'11.13854"	W90°13'47.75083"	78.69	SHORT GRASS
3060	N32°26'19.66688"	W90°18'33.47649"	44.08	SHORT GRASS
3061	N32°24'19.85539"	W90°24'14.09055"	68.87	SHORT GRASS
3062	N32°20'08.92138"	W90°09'11.76048"	61.89	SHORT GRASS
3063	N32°19'10.10615"	W90°14'45.83148"	72.92	SHORT GRASS
3064	N32°14'57.29359"	W90°12'51.90430"	73.84	SHORT GRASS
3065	N32°10'45.49352"	W90°14'44.85406"	53.21	BRUSH
3066	N31°06'23.08002"	W91°04'02.54467"	88.84	BRUSH
3067	N31°15'37.54221"	W90°53'51.94553"	100.74	SHORT GRASS
3068	N31°09'31.95792"	W90°35'28.94910"	104.15	BRUSH
3069	N31°17'29.71856"	W90°43'36.60000"	108.11	SHORT GRASS/WOODS
3070	N31°24'27.97923"	W91°16'44.44583"	33.22	WOODS
3071A	N31°22'52.44279"	W91°07'05.41367"	16.27	SHORT GRASS
3072	N31°32'37.82702"	W91°07'56.88426"	90.84	SHORT GRASS
3073	N31°39'51.15615"	W90°57'50.50708"	119.35	SHORT GRASS
3074	N31°43'52.13106"	W90°56'40.84094"	69.06	WOODS
3075	N31°47'18.23779"	W91°05'29.36011"	22.20	SHORT GRASS
3076	N31°51'40.98927"	W91°11'59.69801"	-1.29	SHORT GRASS
3077	N32°03'45.91008"	W90°55'24.89945"	12.87	TALL GRASS AND TREES
3078	N32°04'39.81055"	W90°46'11.52888"	76.34	SHORT GRASS
3079	N32°14'45.60811"	W90°50'59.73724"	50.84	WOODS
3080	N32°11'40.44345"	W90°48'51.94024"	22.51	SHORT GRASS
3081	N32°24'52.33483"	W90°46'56.38305"	73.90	WOODS
3082	N32°23'54.20316"	W90°41'41.79181"	62.26	WOODS
3083	N32°26'51.33552"	W90°37'12.44581"	50.71	WOODS
3084	N32°23'36.48858"	W90°31'52.26199"	61.29	SHORT GRASS
3085	N32°27'47.40353"	W90°31'31.87818"	41.53	SHORT GRASS
3086	N32°06'45.78933"	W90°36'22.17221"	67.62	SHORT GRASS
3087	N32°09'59.56861"	W90°22'35.06478"	92.66	SHORT GRASS
3088	N32°17'34.67230"	W90°24'23.47345"	56.25	SHORT GRASS
3089	N32°16'22.86113"	W90°17'05.19613"	108.73	BRUSH
3090	N32°20'23.50217"	W90°32'19.10300"	42.61	SHORT GRASS

**Woopert Base Stations, Geodetic Control Stations, and/or Geodetic Control Station Checks:**

Station Name	Latitude	Longitude	Height	PID
			(M)	
1001	N31°41'27.97198"	W91°03'02.22999"	75.50	N/A (OPUS)
1LSU	N30°24'26.70946"	W91°10'48.91474"	-5.21	DF5754
61 V 78	N31°55'47.40937"	W90°59'41.88169"	54.80	BW0507
AMIT	N31°12'00.15354"	W91°00'36.24855"	96.27	DN4038
AP 22	N32°05'49.54970"	W90°37'19.62914"	49.77	DN3845
B 338	N32°00'59.97818"	W91°08'00.93460"	4.14	CP2278
BOSSLER	N32°30'51.93292"	W90°20'50.47870"	39.87	CP3169
D 337	N31°37'34.63767"	W91°31'19.34322"	-5.23	BW1848
D 712	N31°13'46.72424"	W91°17'49.56115"	11.92	DN4078
D 717	N31°33'13.74478"	W91°24'51.09103"	26.80	DW4083
DS 72	N31°30'56.92602"	W90°38'57.04184"	69.89	DN4068
F 19	N31°10'21.70520"	W90°44'44.92573"	99.23	BW0395
F 363	N32°20'49.32338"	W90°51'31.88504"	51.59	CP3406
G 208 RESET 1976	N31°00'29.21288"	W91°45'35.37568"	-12.80	BW0055
G 363	N32°21'16.06451"	W90°38'33.21666"	18.65	CP3410
H 376	N31°30'51.03252"	W91°04'56.74269"	62.00	DL9111
L 24 49 USE	N32°05'14.75271"	W91°10'36.49191"	-2.21	CP2287
LIBE	N31°09'47.03340"	W90°47'18.46595"	95.73	DN4037
LSUA	N31°10'43.57804"	W92°24'44.33510"	6.07	DF7992
MEADVILLE	N31°28'19.29964"	W90°53'13.87260"	84.20	BW0421
MSBU	N31°27'44.12481"	W90°50'15.12342"	50.65	(N/A) TRIMBLE CORS
MSFR	N32°21'38.08508"	W89°34'23.57386"	122.92	(N/A) TRIMBLE CORS
MSMC	N31°16'01.40355"	W90°28'37.11104"	113.61	(N/A) TRIMBLE CORS
MSMN	N31°55'32.70401"	W89°49'10.27489"	105.09	(N/A) TRIMBLE CORS
MSNA	N31°33'40.34606"	W91°24'16.43669"	46.73	(N/A) TRIMBLE CORS
MSPG	N31°52'59.45540"	W91°00'21.27111"	37.08	(N/A) TRIMBLE CORS
MSVC	N32°19'55.66069"	W90°49'31.16619"	50.56	(N/A) TRIMBLE CORS
MSWS	N31°41'31.53461"	W90°23'57.77209"	134.85	(N/A) TRIMBLE CORS
MSYZ	N32°50'46.87701"	W90°24'43.06639"	24.35	(N/A) TRIMBLE CORS
PLEASANT AZ MK	N31°43'20.07898"	W90°44'02.92325"	120.44	CY4479
Q 337	N31°49'25.06334"	W91°21'31.41618"	2.29	BW1870
TALL	N32°24'01.19646"	W91°10'58.81156"	7.42	DG5002
TERRY RESET	N32°06'01.13017"	W90°18'01.16425"	70.99	CP0221
THHR	N30°31'45.63876"	W92°04'50.18610"	2.78	DL8639
VHM 3	N32°17'23.61888"	W90°51'07.58350"	13.56	DF9045
WASHINGTON	N31°34'43.75274"	W91°17'58.76387"	59.22	BW0892
Y 362	N32°18'07.27550"	W90°09'42.49853"	53.89	CP3432



## Section 3: Existing NGS Control Information Sheets

This section contains the published National Geodetic Survey (NGS) Datasheets used or referenced in the final control network for the USGS Mississippi NRCS FY16 LiDAR Project. Trimble CORS have not been documented.



# The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

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PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 20, 2016
DF5754 *****
DF5754  CORS          -   This is a GPS Continuously Operating Reference Station.
DF5754  DESIGNATION  -   LOUISIANA STATE U CORS ARP
DF5754  CORS_ID      -   1LSU
DF5754  PID          -   DF5754
DF5754  STATE/COUNTY-   LA/EAST BATON ROUGE
DF5754  COUNTRY      -   US
DF5754  USGS QUAD    -   BATON ROUGE WEST (1995)
DF5754
DF5754                                *CURRENT SURVEY CONTROL
DF5754
DF5754*  NAD 83(2011) POSITION- 30 24 26.70946(N) 091 10 48.91474(W)  ADJUSTED
DF5754*  NAD 83(2011) ELLIP HT-   -5.211 (meters)                (08/??/11)  ADJUSTED
DF5754*  NAD 83(2011) EPOCH   -   2010.00
DF5754*  NAVD 88 ORTHO HEIGHT -   *(meters)                    *(feet) NOT PUB
DF5754  **This station is located in a suspected subsidence area (see below).
DF5754
DF5754  NAD 83(2011) X   -   -113,402.171 (meters)                COMP
DF5754  NAD 83(2011) Y   -   -5,504,362.810 (meters)            COMP
DF5754  NAD 83(2011) Z   -   3,209,404.365 (meters)            COMP
DF5754  GEOID HEIGHT    -   -27.097 (meters)                    GEOID12B
DF5754
DF5754  Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DF5754  Standards:
DF5754          FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
DF5754          Horiz Ellip              SD_N   SD_E   SD_h          (unitless)
DF5754  -----
DF5754  NETWORK      1.19   4.19              0.50   0.48   2.14          0.02576210
DF5754  -----
DF5754  Click here for local accuracies and other accuracy information.
DF5754
DF5754
DF5754.The coordinates were established by GPS observations
DF5754.and adjusted by the National Geodetic Survey in August 2011.
DF5754
DF5754.NAD 83(2011) refers to NAD 83 coordinates where the reference
DF5754.frame has been affixed to the stable North American Tectonic Plate.
DF5754
DF5754.The coordinates are valid at the epoch date displayed above
DF5754.which is a decimal equivalence of Year/Month/Day.
DF5754
DF5754 ** This station is in an area of known vertical motion.  If an
DF5754 ** orthometric height was ever established but is not available
DF5754 ** in the current survey control section, the orthometric height
DF5754 ** is considered suspect.  Suspect heights are available in the
DF5754 ** superseded section only if requested.
DF5754
DF5754.Significant digits in the geoid height do not necessarily reflect accuracy.

```



DF5754.GEOID12B height accuracy estimate available here.

DF5754

DF5754.The PID for the CORS L1 Phase Center is DK5488.

DF5754

DF5754.The XYZ, and position/ellipsoidal ht. are equivalent.

DF5754

DF5754.The ellipsoidal height was determined by GPS observations

DF5754.and is referenced to NAD 83.

DF5754

DF5754. The following values were computed from the NAD 83(2011) position.

DF5754

DF5754;		North	East	Units	Scale Factor	Converg.
DF5754;SPC LA S	-	211,438.087	1,014,708.613	MT	0.99995083	+0 04 35.5
DF5754;SPC LA S	-	693,693.12	3,329,089.84	sFT	0.99995083	+0 04 35.5
DF5754;UTM 15	-	3,365,337.432	674,803.367	MT	0.99997697	+0 55 16.6
DF5754!	-	Elev Factor	x	Scale Factor	=	Combined Factor
DF5754!SPC LA S	-	1.00000082	x	0.99995083	=	0.99995165
DF5754!UTM 15	-	1.00000082	x	0.99997697	=	0.99997779

DF5754

SUPERSEDED SURVEY CONTROL

DF5754

DF5754	ELLIP H (06/27/12)	-5.202	(m)			GP(2010.00)
DF5754	NAD 83(2011)-	30 24 26.70939(N)		091 10 48.91483(W)		AD(2010.00) c
DF5754	NAD 83(CORS)-	30 24 26.70936(N)		091 10 48.91529(W)		AD(2002.00) c
DF5754	ELLIP H (05/??/03)	-5.179	(m)			GP(2002.00) c c

DF5754

DF5754.Superseded values are not recommended for survey control.

DF5754

DF5754.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

DF5754.See file dsdata.txt to determine how the superseded data were derived.

DF5754

DF5754\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15RXP7480365337(NAD 83)

DF5754

DF5754\_MARKER: STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA

DF5754

STATION DESCRIPTION

DF5754

DF5754'DESCRIBED BY NATIONAL GEODETIC SURVEY 2011

DF5754'STATION IS A GPS CORS. LATEST INFORMATION INCLUDING POSITIONS AND

DF5754'VELOCITIES ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE

DF5754'BY ANONYMOUS FTP OR THE WORLDWIDE WEB.

DF5754' ftp://cors.ngs.noaa.gov/cors/README.txt

DF5754' ftp://cors.ngs.noaa.gov/cors/coord/coord\_08

DF5754' ftp://cors.ngs.noaa.gov/cors/station\_log

DF5754' http://geodesy.noaa.gov/CORS



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 21, 2016
BW0507 *****
BW0507 CBN          - This is a Cooperative Base Network Control Station.
BW0507 DESIGNATION - 61 V 78
BW0507 PID          - BW0507
BW0507 STATE/COUNTY- MS/CLAIBORNE
BW0507 COUNTRY      - US
BW0507 USGS QUAD    - PORT GIBSON (1963)
BW0507
BW0507                      *CURRENT SURVEY CONTROL
BW0507
BW0507* NAD 83(2011) POSITION- 31 55 47.40937(N) 090 59 41.88169(W) ADJUSTED
BW0507* NAD 83(2011) ELLIP HT- 54.797 (meters) (06/27/12) ADJUSTED
BW0507* NAD 83(2011) EPOCH - 2010.00
BW0507* NAVD 88 ORTHO HEIGHT - 80.970 (meters) 265.65 (feet) ADJUSTED
BW0507* NAVD 88 EPOCH - 2009.55
BW0507 **This station is located in a suspected subsidence area (see below).
BW0507
BW0507 NAD 83(2011) X - -94,085.175 (meters) COMP
BW0507 NAD 83(2011) Y - -5,417,406.640 (meters) COMP
BW0507 NAD 83(2011) Z - 3,353,859.886 (meters) COMP
BW0507 LAPLACE CORR - 0.02 (seconds) DEFLEC12B
BW0507 GEOID HEIGHT - -26.182 (meters) GEOID12B
BW0507 DYNAMIC HEIGHT - 80.875 (meters) 265.34 (feet) COMP
BW0507 MODELED GRAVITY - 979,468.8 (mgal) NAVD 88
BW0507
BW0507 VERT ORDER - SECOND CLASS 0
BW0507
BW0507 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
BW0507 Standards:
BW0507          FGDC (95% conf, cm)          Standard deviation (cm)          CorrNE
BW0507          Horiz Ellip                    SD_N   SD_E   SD_h          (unitless)
BW0507 -----
BW0507 NETWORK      0.50   0.88                    0.23   0.17   0.45          0.05452501
BW0507 -----
BW0507 Click here for local accuracies and other accuracy information.
BW0507
BW0507
BW0507.The horizontal coordinates were established by GPS observations
BW0507.and adjusted by the National Geodetic Survey in June 2012.
BW0507
BW0507.NAD 83(2011) refers to NAD 83 coordinates where the reference
BW0507.frame has been affixed to the stable North American tectonic plate. See
BW0507.NA2011 for more information.
BW0507
BW0507.The horizontal coordinates are valid at the epoch date displayed above
BW0507.which is a decimal equivalence of Year/Month/Day.
BW0507
BW0507 ** This station is in an area of known vertical motion. Due to the

```



BW0507 \*\* variability of land subsidence, uplift, and crustal motion, NGS has,  
 BW0507 \*\* determined the orthometric heights for marks in these suspect  
 BW0507 \*\* subsidence areas should be considered valid only at the epoch date  
 BW0507 \*\* associated with the orthometric height. These heights must always  
 BW0507 \*\* be validated when used as control. All previously superseded  
 BW0507 \*\* orthometric heights are now considered suspect and are available  
 BW0507 \*\* in the superseded section. NGS does not recommend using suspect  
 BW0507 \*\* or superseded heights as control.  
 BW0507  
 BW0507.The orthometric height was determined by differential leveling and  
 BW0507.adjusted by the NATIONAL GEODETIC SURVEY  
 BW0507.in July 2012.  
 BW0507  
 BW0507.Significant digits in the geoid height do not necessarily reflect accuracy.  
 BW0507.GEOID12B height accuracy estimate available here.  
 BW0507  
 BW0507.Photographs are available for this station.  
 BW0507  
 BW0507.The X, Y, and Z were computed from the position and the ellipsoidal ht.  
 BW0507  
 BW0507.The Laplace correction was computed from DEFLEC12B derived deflections.  
 BW0507  
 BW0507.The ellipsoidal height was determined by GPS observations  
 BW0507.and is referenced to NAD 83.  
 BW0507  
 BW0507.The dynamic height is computed by dividing the NAVD 88  
 BW0507.geopotential number by the normal gravity value computed on the  
 BW0507.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45  
 BW0507.degrees latitude (g = 980.6199 gals.).  
 BW0507  
 BW0507.The modeled gravity was interpolated from observed gravity values.  
 BW0507  
 BW0507. The following values were computed from the NAD 83(2011) position.  
 BW0507  
 BW0507;  

	North	East	Units	Scale	Factor	Converg.
BW0507;SPC MS W	- 269,560.521	637,435.091	MT	0.99999826	-0 20	59.8
BW0507;SPC MS W	- 884,383.14	2,091,318.29	sFT	0.99999826	-0 20	59.8
BW0507;UTM 15	- 3,534,413.079	689,547.325	MT	1.00004311	+1 03	38.7

 BW0507  
 BW0507!  

BW0507!SPC MS W	- 0.99999140	x 0.99999826	=	0.99998966
BW0507!UTM 15	- 0.99999140	x 1.00004311	=	1.00003451

 BW0507  
 BW0507  

SUPERSEDED SURVEY CONTROL

 BW0507  

BW0507	NAD 83(2007)-	31 55 47.40924(N)	090 59 41.88233(W)	AD(2002.00)	0
BW0507	ELLIP H (02/10/07)	54.805 (m)		GP(2002.00)	
BW0507	ELLIP H (04/15/02)	54.791 (m)		GP( )	4 2
BW0507	NAD 83(1993)-	31 55 47.40880(N)	090 59 41.88224(W)	AD( )	B
BW0507	ELLIP H (02/15/02)	54.792 (m)		GP( )	4 1
BW0507	NAVD 88 (06/28/04)	80.97 (m)	GEOID03 model used	GPS OBS	
BW0507	NAVD 88 (02/15/02)	81.0 (m)	GEOID99 model used	GPS OBS	
BW0507	NGVD 29 (??/??/92)	81.081 (m)	266.01 (f)	ADJ UNCH	2 0

 BW0507  
 BW0507.Superseded values are not recommended for survey control.



BW0507

BW0507.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
BW0507.See file dsdata.txt to determine how the superseded data were derived.

BW0507

BW0507\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15RXR8954734413(NAD 83)

BW0507

BW0507\_MARKER: DD = SURVEY DISK

BW0507\_SETTING: 36 = SET IN A MASSIVE STRUCTURE

BW0507\_SP\_SET: BRIDGE ABUTMENT

BW0507\_STAMPING: BM 61V-78 1970

BW0507\_MARK LOGO: MSHD

BW0507\_MAGNETIC: N = NO MAGNETIC MATERIAL

BW0507\_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

BW0507\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

BW0507+SATELLITE: SATELLITE OBSERVATIONS - November 03, 2014

BW0507

BW0507	HISTORY	- Date	Condition	Report By
BW0507	HISTORY	- 1970	MONUMENTED	MSHD
BW0507	HISTORY	- 20000202	GOOD	NGS
BW0507	HISTORY	- 20020723	GOOD	PYBURN
BW0507	HISTORY	- 2003	GOOD	PYBURN
BW0507	HISTORY	- 20080804	GOOD	MSDOT
BW0507	HISTORY	- 20141103	GOOD	JCLS

BW0507

BW0507

STATION DESCRIPTION

BW0507

BW0507'DESCRIBED BY MISSISSIPPI STATE HIGHWAY DEPARTMENT 1970

BW0507'2.3 MI SW FROM PORT GIBSON.

BW0507'THE MARK IS LOCATED 2.3 MILES SOUTHWEST OF THE COURTHOUSE IN PORT  
BW0507'GIBSON IN THE BASE OF THE WEST END OF THE NORTH RAILING OF THE NATCHEZ  
BW0507'TRACE PARKWAY BRIDGE OVER U.S. HIGHWAY 61. IT IS 90 FEET WEST  
BW0507'NORTHWEST OF THE CENTER OF HIGHWAY 61, 16 FEET NORTH OF THE CENTER OF  
BW0507'THE NATCHEZ TRACE PARKWAY, SET IN A DRILL HOLE IN THE BASE OF THE WEST  
BW0507'END OF THE NORTH CONCRETE RAILING OF THE BRIDGE AND IS ABOUT 1 FOOT  
BW0507'ABOVE THE LEVEL OF THE NATCHEZ TRACE PARKWAY. NOTE-- TO REACH FROM  
BW0507'THE U.S. POST OFFICE IN PORT GIBSON, GO EAST ON ORANGE STREET FOR 0.1  
BW0507'MILE TO THE INTERSECTION OF U.S. HIGHWAY 61. TURN RIGHT (SOUTH) AND  
BW0507'CONTINUE ON U.S. HIGHWAY 61 FOR 2.3 MILES TO THE NATCHEZ TRACE  
BW0507'OVERPASS AND THE MARK ON THE RIGHT AS DESCRIBED.

BW0507

BW0507

STATION RECOVERY (2000)

BW0507

BW0507'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2000

BW0507'RECOVERED AS DESCRIBED. TO REACH THE STATION, ENTER THE NATCHEZ TRACE  
BW0507'PARKWAY 0.2 MILE (0.3 KM) SOUTH OF ITS OVERPASS OVER ROUTE 61. TURN  
BW0507'WEST OFF OF ROUTE 61, THEN PROCEED 0.2 MILE (0.3 KM) UP THE RAMP TO  
BW0507'THE TRACE, THEN RIGHT (EASTERLY) AND 0.1 MILE (0.2 KM) ON THE TRACE TO  
BW0507'THE OVERPASS AND THE MARK ON THE LEFT, ON THE NORTH SIDE OF THE  
BW0507'ABUTMENT. THE MARK IS 2.5 M (8.2 FT) EAST OF THE WEST END OF THE  
BW0507'CONCRETE BRIDGE SIDE RAIL, 1.6 M (5.2 FT) NORTH OF THE EDGE OF  
BW0507'PAVEMENT, AND 0.25 M (0.82 FT) ABOVE THE LEVEL OF THE ROAD.

BW0507

BW0507

STATION RECOVERY (2002)

BW0507

BW0507'RECOVERY NOTE BY PYBURN AND ODOM, INCORPORATED 2002



WOOLPERT

BW0507'RECOVERED AS DESCRIBED

BW0507'IPYBURN

BW0507'

BW0507

BW0507

STATION RECOVERY (2003)

BW0507

BW0507'RECOVERY NOTE BY PYBURN AND ODOM, INCORPORATED 2003 (RC)

BW0507'RECOVERED AS DESCRIBED IPYBURN

BW0507

BW0507

STATION RECOVERY (2008)

BW0507

BW0507'RECOVERY NOTE BY MS DEPT TRANS 2008 (ST)

BW0507'RECOVERED AS DESCRIBED WITH THE FOLLOWING ADDENDUM THE MARK IS LOCATED

BW0507'245 FT (74.7 M) EAST OF THE PORT GIBSON SIGN ON THE NATCHEZ TRACE.

BW0507

BW0507

STATION RECOVERY (2014)

BW0507

BW0507'RECOVERY NOTE BY JOHN CHANCE LAND SURVEYS INC 2014 (MRY)

BW0507'RECOVERED IN GOOD CONDITION.



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 18, 2016
DN4038 *****
DN4038 HT_MOD      - This is a Height Modernization Survey Station.
DN4038 DESIGNATION - AMIT
DN4038 PID        - DN4038
DN4038 STATE/COUNTY- MS/AMITE
DN4038 COUNTRY    - US
DN4038 USGS QUAD   - GLOSTER (1988)
DN4038
DN4038                                *CURRENT SURVEY CONTROL
DN4038
DN4038* NAD 83(2011) POSITION- 31 12 00.15354(N) 091 00 36.24855(W) ADJUSTED
DN4038* NAD 83(2011) ELLIP HT- 96.272 (meters) (06/27/12) ADJUSTED
DN4038* NAD 83(2011) EPOCH - 2010.00
DN4038* NAVD 88 ORTHO HEIGHT - 122.94 (meters) 403.3 (feet) GPS OBS
DN4038* NAVD 88 EPOCH - 2009.55
DN4038 **This station is located in a suspected subsidence area (see below).
DN4038
DN4038 NAVD 88 orthometric height was determined with geoid model GEOID12A
DN4038 GEOID HEIGHT - -26.639 (meters) GEOID12A
DN4038 GEOID HEIGHT - -26.639 (meters) GEOID12B
DN4038 NAD 83(2011) X - -96,260.403 (meters) COMP
DN4038 NAD 83(2011) Y - -5,459,768.820 (meters) COMP
DN4038 NAD 83(2011) Z - 3,284,934.492 (meters) COMP
DN4038 LAPLACE CORR - 0.32 (seconds) DEFLEC12B
DN4038
DN4038 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DN4038 Standards:
DN4038      FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
DN4038      Horiz Ellip      SD_N SD_E SD_h      (unitless)
DN4038 -----
DN4038 NETWORK      0.84 1.25      0.38 0.30 0.64      0.06474823
DN4038 -----
DN4038 Click here for local accuracies and other accuracy information.
DN4038
DN4038
DN4038.The horizontal coordinates were established by GPS observations
DN4038.and adjusted by the National Geodetic Survey in June 2012.
DN4038
DN4038.NAD 83(2011) refers to NAD 83 coordinates where the reference
DN4038.frame has been affixed to the stable North American tectonic plate. See
DN4038.NA2011 for more information.
DN4038
DN4038.The horizontal coordinates are valid at the epoch date displayed above
DN4038.which is a decimal equivalence of Year/Month/Day.
DN4038
DN4038 ** This station is in an area of known vertical motion. Due to the
DN4038 ** variability of land subsidence, uplift, and crustal motion, NGS has,
DN4038 ** determined the orthometric heights for marks in these suspect

```



WOOLPERT

DN4038 \*\* subsidence areas should be considered valid only at the epoch date  
 DN4038 \*\* associated with the orthometric height. These heights must always  
 DN4038 \*\* be validated when used as control. All previously superseded  
 DN4038 \*\* orthometric heights are now considered suspect and are available  
 DN4038 \*\* in the superseded section. NGS does not recommend using suspect  
 DN4038 \*\* or superseded heights as control.  
 DN4038  
 DN4038.The orthometric height was determined by GPS observations and a  
 DN4038.high-resolution geoid model using precise GPS observation and  
 DN4038.processing techniques.  
 DN4038  
 DN4038.Significant digits in the geoid height do not necessarily reflect accuracy.  
 DN4038.GEOID12B height accuracy estimate available here.  
 DN4038  
 DN4038.The X, Y, and Z were computed from the position and the ellipsoidal ht.  
 DN4038  
 DN4038.The Laplace correction was computed from DEFLEC12B derived deflections.  
 DN4038  
 DN4038.The ellipsoidal height was determined by GPS observations  
 DN4038.and is referenced to NAD 83.  
 DN4038  
 DN4038. The following values were computed from the NAD 83(2011) position.  
 DN4038  
 DN4038;  

	North	East	Units	Scale	Factor	Converg.
DN4038;SPC MS W	- 188,651.899	635,506.692	MT	1.00000129	-0 21 02.1	
DN4038;SPC MS W	- 618,935.44	2,084,991.54	sFT	1.00000129	-0 21 02.1	
DN4038;UTM 15	- 3,453,477.971	689,590.939	MT	1.00004338	+1 01 52.1	

 DN4038  
 DN4038!  

	Elev Factor	x	Scale Factor	=	Combined Factor
DN4038!SPC MS W	- 0.99998488	x	1.00000129	=	0.99998617
DN4038!UTM 15	- 0.99998488	x	1.00004338	=	1.00002826

 DN4038  
 DN4038  

SUPERSEDED SURVEY CONTROL

 DN4038  
 DN4038  
 DN4038 NAD 83(2007)- 31 12 00.15321(N) 091 00 36.24902(W) AD(2002.00) A  
 DN4038 ELLIP H (09/06/11) 96.259 (m) GP(2002.00) 4 1  
 DN4038  
 DN4038.Superseded values are not recommended for survey control.  
 DN4038  
 DN4038.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
 DN4038.See file dsdata.txt to determine how the superseded data were derived.  
 DN4038  
 DN4038\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15RXQ8959053477(NAD 83)  
 DN4038  
 DN4038\_MARKER: DD = SURVEY DISK  
 DN4038\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT  
 DN4038\_STAMPING: AMIT 2008  
 DN4038\_MARK LOGO: MSDOT  
 DN4038\_PROJECTION: FLUSH  
 DN4038\_MAGNETIC: N = NO MAGNETIC MATERIAL  
 DN4038\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO  
 DN4038+STABILITY: SURFACE MOTION  
 DN4038\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
 DN4038+SATELLITE: SATELLITE OBSERVATIONS - December 13, 2008  
 DN4038



WOOLPERT

DN4038	HISTORY	- Date	Condition	Report By
DN4038	HISTORY	- 20081213	MONUMENTED	MSDOT

DN4038

DN4038

STATION DESCRIPTION

DN4038

DN4038'DESCRIBED BY MS DEPT TRANS 2008 (RDB)

DN4038'THE STATION IS LOCATED AT THE INTERSECTION OF HIGHWAY 33 AND HIGHWAY  
DN4038'24 IN THE TOWN OF GLOSTER MS, 6.25 MI (10.1 KM) SOUTHEAST OF CROSBY,  
DN4038'8.9 MI (14.3 KM) NORTHEAST OF CENTREVILLE AND 12.9 MI (20.8 KM) WEST  
DN4038'OF LIBERTY.

DN4038'

DN4038'TO REACH THE STATION FROM THE INTERSECTION OF HIGHWAY 48 AND HIGHWAY  
DN4038'24 GO NORTH ON HIGHWAY 24 FOR 8 MI (12.9 KM) TO THE INTERSECTION OF  
DN4038'HIGHWAY 33 AND HIGHWAY 24 TO THE STATION ON THE LEFT.

DN4038'

DN4038'THE STATION IS 50 FT (15.2 M) NORTH OF HIGHWAY 24, 125 FT (38.1 M)  
DN4038'SOUTH OF SPLIT IN HIGHWAY 33, 150 FT (45.7 M) EAST OF A POWER POLE,  
DN4038'AND 1 FT (0.3 M) SOUTH OF A FIBERGLASS WITNESS POST.



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 20, 2016
DN3845 *****
DN3845 HT_MOD      - This is a Height Modernization Survey Station.
DN3845 DESIGNATION - AP 22
DN3845 PID        - DN3845
DN3845 STATE/COUNTY- MS/HINDS
DN3845 COUNTRY    - US
DN3845 USGS QUAD  - UTICA EAST (1963)
DN3845
DN3845                                *CURRENT SURVEY CONTROL
DN3845
DN3845* NAD 83(2011) POSITION- 32 05 49.54970(N) 090 37 19.62914(W) ADJUSTED
DN3845* NAD 83(2011) ELLIP HT- 49.772 (meters) (06/27/12) ADJUSTED
DN3845* NAD 83(2011) EPOCH - 2010.00
DN3845* NAVD 88 ORTHO HEIGHT - 76.10 (meters) 249.7 (feet) GPS OBS
DN3845* NAVD 88 EPOCH - 2009.55
DN3845 **This station is located in a suspected subsidence area (see below).
DN3845
DN3845 NAVD 88 orthometric height was determined with geoid model GEOID12A
DN3845 GEOID HEIGHT - -26.327 (meters) GEOID12A
DN3845 GEOID HEIGHT - -26.327 (meters) GEOID12B
DN3845 NAD 83(2011) X - -58,723.267 (meters) COMP
DN3845 NAD 83(2011) Y - -5,408,068.263 (meters) COMP
DN3845 NAD 83(2011) Z - 3,369,583.869 (meters) COMP
DN3845 LAPLACE CORR - -0.24 (seconds) DEFLEC12B
DN3845
DN3845 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DN3845 Standards:
DN3845      FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
DN3845      Horiz Ellip      SD_N SD_E SD_h      (unitless)
DN3845 -----
DN3845 NETWORK      1.28 1.57      0.60 0.40 0.80      0.10620325
DN3845 -----
DN3845 Click here for local accuracies and other accuracy information.
DN3845
DN3845
DN3845.The horizontal coordinates were established by GPS observations
DN3845.and adjusted by the National Geodetic Survey in June 2012.
DN3845
DN3845.NAD 83(2011) refers to NAD 83 coordinates where the reference
DN3845.frame has been affixed to the stable North American tectonic plate. See
DN3845.NA2011 for more information.
DN3845
DN3845.The horizontal coordinates are valid at the epoch date displayed above
DN3845.which is a decimal equivalence of Year/Month/Day.
DN3845
DN3845 ** This station is in an area of known vertical motion. Due to the
DN3845 ** variability of land subsidence, uplift, and crustal motion, NGS has,
DN3845 ** determined the orthometric heights for marks in these suspect

```



DN3845 \*\* subsidence areas should be considered valid only at the epoch date  
 DN3845 \*\* associated with the orthometric height. These heights must always  
 DN3845 \*\* be validated when used as control. All previously superseded  
 DN3845 \*\* orthometric heights are now considered suspect and are available  
 DN3845 \*\* in the superseded section. NGS does not recommend using suspect  
 DN3845 \*\* or superseded heights as control.  
 DN3845  
 DN3845.The orthometric height was determined by GPS observations and a  
 DN3845.high-resolution geoid model using precise GPS observation and  
 DN3845.processing techniques.  
 DN3845  
 DN3845.Significant digits in the geoid height do not necessarily reflect accuracy.  
 DN3845.GEOID12B height accuracy estimate available here.  
 DN3845  
 DN3845.The X, Y, and Z were computed from the position and the ellipsoidal ht.  
 DN3845  
 DN3845.The Laplace correction was computed from DEFLEC12B derived deflections.  
 DN3845  
 DN3845.The ellipsoidal height was determined by GPS observations  
 DN3845.and is referenced to NAD 83.  
 DN3845  
 DN3845. The following values were computed from the NAD 83(2011) position.  
 DN3845  
 DN3845;  

	North	East	Units	Scale	Factor	Converg.
DN3845;SPC MS W	- 287,952.137	672,741.825	MT	0.99995916	-0 09 12.4	
DN3845;SPC MS W	- 944,722.97	2,207,153.80	sFT	0.99995916	-0 09 12.4	
DN3845;UTM 15	- 3,553,673.339	724,394.788	MT	1.00022101	+1 15 50.5	

 DN3845  
 DN3845!  

	Elev Factor	x	Scale Factor	=	Combined Factor
DN3845!SPC MS W	- 0.99999219	x	0.99995916	=	0.99995135
DN3845!UTM 15	- 0.99999219	x	1.00022101	=	1.00021319

 DN3845  
 DN3845  

SUPERSEDED SURVEY CONTROL

 DN3845  
 DN3845  
 DN3845 NAD 83(2007)- 32 05 49.54951(N) 090 37 19.62957(W) AD(2002.00) A  
 DN3845 ELLIP H (09/06/11) 49.762 (m) GP(2002.00) 4 1  
 DN3845  
 DN3845.Superseded values are not recommended for survey control.  
 DN3845  
 DN3845.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
 DN3845.See file dsdata.txt to determine how the superseded data were derived.  
 DN3845  
 DN3845\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15SYR2439453673(NAD 83)  
 DN3845  
 DN3845\_MARKER: DD = SURVEY DISK  
 DN3845\_SETTING: 34 = SET IN THE FOOTINGS OF SMALL/MEDIUM STRUCTURES  
 DN3845\_SP\_SET: BOX CULVERT  
 DN3845\_STAMPING: AP22 2008  
 DN3845\_MARK LOGO: MSDOT  
 DN3845\_MAGNETIC: N = NO MAGNETIC MATERIAL  
 DN3845\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO  
 DN3845+STABILITY: SURFACE MOTION  
 DN3845\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
 DN3845+SATELLITE: SATELLITE OBSERVATIONS - December 01, 2008  
 DN3845



WOOLPERT

DN3845	HISTORY	- Date	Condition	Report By
DN3845	HISTORY	- 20081201	MONUMENTED	MSDOT

DN3845

DN3845

STATION DESCRIPTION

DN3845

DN3845'DESCRIBED BY MS DEPT TRANS 2008 (SOL)

DN3845'THE STATION IS LOCATED APPROXIMATELY 1 MI (1.6 KM) SOUTH OF UTICA, MS

DN3845'IN SECTION 17 T3N R4W.

DN3845'

DN3845'TO REACH FROM THE INTERSECTION OF HIGHWAY 18 AND HIGHWAY 27 GO EAST

DN3845'ALONG HIGHWAY 18 88 FT (26.8 M) TO THE MARK ON THE LEFT. IT IS A

DN3845'BRASS DISK SET IN THE HEADWALL WEST END OF A 30 INCH (76 CM) PIPE

DN3845'UNDER HIGHWAY 18.

DN3845'

DN3845'THE STATION IS NORTHWEST OF A POWER POLE WITH A LIGHT 19.5 M (64.0 FT)

DN3845'31.5 M (103.3 FT) SOUTHWEST OF A GRAYCO MINI STORAGE SIGN, AND 53 FT

DN3845'(16.2 M) NORTH OF THE CENTERLINE OF HIGHWAY 18.

\*\*\* retrieval complete.

Elapsed Time = 00:00:03



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 19, 2016
CP2278 *****
CP2278 HT_MOD      - This is a Height Modernization Survey Station.
CP2278 DESIGNATION - B 338
CP2278 PID        - CP2278
CP2278 STATE/COUNTY- LA/TENSAS
CP2278 COUNTRY    - US
CP2278 USGS QUAD  - NEWELLTON (1994)
CP2278
CP2278                      *CURRENT SURVEY CONTROL
CP2278
CP2278* NAD 83(2011) POSITION- 32 00 59.97818(N) 091 08 00.93460(W) ADJUSTED
CP2278* NAD 83(2011) ELLIP HT-      4.134 (meters)          (06/27/12) ADJUSTED
CP2278* NAD 83(2011) EPOCH  - 2010.00
CP2278* NAVD 88 ORTHO HEIGHT - 30.44 (meters)          99.9 (feet) GPS OBS
CP2278
CP2278 NAVD 88 orthometric height was determined with geoid model      GEOID12A
CP2278 GEOID HEIGHT      -      -26.296 (meters)          GEOID12A
CP2278 GEOID HEIGHT      -      -26.296 (meters)          GEOID12B
CP2278 NAD 83(2011) X    -      -107,090.467 (meters)          COMP
CP2278 NAD 83(2011) Y    -      -5,412,023.078 (meters)          COMP
CP2278 NAD 83(2011) Z    -      3,362,000.205 (meters)          COMP
CP2278 LAPLACE CORR      -      0.01 (seconds)          DEFLEC12B
CP2278
CP2278 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
CP2278 Standards:
CP2278      FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
CP2278      Horiz Ellip              SD_N   SD_E   SD_h      (unitless)
CP2278 -----
CP2278 NETWORK      0.38   0.63              0.16   0.15   0.32      0.03307245
CP2278 -----
CP2278 Click here for local accuracies and other accuracy information.
CP2278
CP2278
CP2278.The horizontal coordinates were established by GPS observations
CP2278.and adjusted by the National Geodetic Survey in June 2012.
CP2278
CP2278.NAD 83(2011) refers to NAD 83 coordinates where the reference
CP2278.frame has been affixed to the stable North American tectonic plate. See
CP2278.NA2011 for more information.
CP2278
CP2278.The horizontal coordinates are valid at the epoch date displayed above
CP2278.which is a decimal equivalence of Year/Month/Day.
CP2278
CP2278.The orthometric height was determined by GPS observations and a
CP2278.high-resolution geoid model using precise GPS observation and
CP2278.processing techniques.
CP2278
CP2278.Significant digits in the geoid height do not necessarily reflect accuracy.

```



CP2278.GEOID12B height accuracy estimate available here.

CP2278

CP2278.The X, Y, and Z were computed from the position and the ellipsoidal ht.

CP2278

CP2278.The Laplace correction was computed from DEFLEC12B derived deflections.

CP2278

CP2278.The ellipsoidal height was determined by GPS observations

CP2278.and is referenced to NAD 83.

CP2278

CP2278. The following values were computed from the NAD 83(2011) position.

CP2278

CP2278;		North	East	Units	Scale Factor	Converg.
CP2278;SPC LA N	-	168,973.475	1,129,078.508	MT	0.99991623	+0 43 20.7
CP2278;SPC LA N	-	554,373.81	3,704,318.40	sFT	0.99991623	+0 43 20.7
CP2278;UTM 15	-	3,543,804.866	676,273.992	MT	0.99998321	+0 59 23.1
CP2278!	-	Elev Factor	x	Scale Factor	=	Combined Factor
CP2278!SPC LA N	-	0.99999935	x	0.99991623	=	0.99991558
CP2278!UTM 15	-	0.99999935	x	0.99998321	=	0.99998256

CP2278

SUPERSEDED SURVEY CONTROL

CP2278

CP2278	NAD 83(2007)-	32 00 59.97804(N)	091 08 00.93522(W)	AD(2002.00)	0
CP2278	ELLIP H (02/10/07)	4.143 (m)		GP(2002.00)	
CP2278	NAD 83(1992)-	32 00 59.97779(N)	091 08 00.93516(W)	AD( )	B
CP2278	ELLIP H (06/28/04)	4.135 (m)		GP( )	4 2
CP2278	NAVD 88 (06/28/04)	30.42 (m)	GEOID03 model used	GPS OBS	
CP2278	NAVD 88 (02/14/94)	30.443 (m)	99.88 (f)	ADJUSTED	1 2
CP2278	NAVD 88 (06/15/91)	30.451 (m)	99.90 (f)	SUPERSEDED	1 2
CP2278	NGVD 29 (??/??/??)	30.462 (m)	99.94 (f)	ADJUSTED	1 2

CP2278

CP2278.Superseded values are not recommended for survey control.

CP2278

CP2278.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

CP2278.See file dsdata.txt to determine how the superseded data were derived.

CP2278

CP2278\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15SXR7627343804(NAD 83)

CP2278

CP2278\_MARKER: DV = VERTICAL CONTROL DISK

CP2278\_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

CP2278\_STAMPING: B 338 1979

CP2278\_MARK LOGO: NGS

CP2278\_PROJECTION: RECESSED 5 CENTIMETERS

CP2278\_MAGNETIC: N = NO MAGNETIC MATERIAL

CP2278\_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

CP2278\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

CP2278+SATELLITE: SATELLITE OBSERVATIONS - January 08, 2013

CP2278\_ROD/PIPE-DEPTH: 9.14 meters

CP2278

CP2278	HISTORY	-	Date	Condition	Report By
CP2278	HISTORY	-	1979	MONUMENTED	NGS
CP2278	HISTORY	-	2003	GOOD	PYBURN
CP2278	HISTORY	-	20130108	GOOD	JMSM

CP2278

STATION DESCRIPTION

CP2278





# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,  Retrieval Date = FEBRUARY 20, 2016
CP3169 *****
CP3169 HT_MOD      -  This is a Height Modernization Survey Station.
CP3169 CBN        -  This is a Cooperative Base Network Control Station.
CP3169 DESIGNATION -  BOSSLER
CP3169 PID        -  CP3169
CP3169 STATE/COUNTY-  MS/MADISON
CP3169 COUNTRY    -  US
CP3169 USGS QUAD   -  FLORA (1988)
CP3169
CP3169                                *CURRENT SURVEY CONTROL
CP3169
CP3169* NAD 83(2011) POSITION- 32 30 51.93292(N) 090 20 50.47870(W)  ADJUSTED
CP3169* NAD 83(2011) ELLIP HT- 39.866 (meters) (06/27/12)  ADJUSTED
CP3169* NAD 83(2011) EPOCH   - 2010.00
CP3169* NAVD 88 ORTHO HEIGHT - 66.56 (meters) 218.4 (feet) GPS OBS
CP3169
CP3169 NAVD 88 orthometric height was determined with geoid model  GEOID03
CP3169 GEOID HEIGHT      -      -26.677 (meters)  GEOID03
CP3169 GEOID HEIGHT      -      -26.696 (meters)  GEOID12B
CP3169 NAD 83(2011) X    -    -32,638.108 (meters)  COMP
CP3169 NAD 83(2011) Y    -   -5,383,546.697 (meters)  COMP
CP3169 NAD 83(2011) Z    -    3,408,693.714 (meters)  COMP
CP3169 LAPLACE CORR      -      -0.14 (seconds)  DEFLEC12B
CP3169
CP3169 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
CP3169 Standards:
CP3169      FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
CP3169      Horiz  Ellip              SD_N   SD_E   SD_h      (unitless)
CP3169 -----
CP3169 NETWORK    0.54   1.02              0.22   0.22   0.52      -0.09137799
CP3169 -----
CP3169 Click here for local accuracies and other accuracy information.
CP3169
CP3169
CP3169.The horizontal coordinates were established by GPS observations
CP3169.and adjusted by the National Geodetic Survey in June 2012.
CP3169
CP3169.NAD 83(2011) refers to NAD 83 coordinates where the reference
CP3169.frame has been affixed to the stable North American tectonic plate. See
CP3169.NA2011 for more information.
CP3169
CP3169.The horizontal coordinates are valid at the epoch date displayed above
CP3169.which is a decimal equivalence of Year/Month/Day.
CP3169
CP3169.The orthometric height was determined by GPS observations and a
CP3169.high-resolution geoid model using precise GPS observation and
CP3169.processing techniques.
CP3169

```



CP3169. Significant digits in the geoid height do not necessarily reflect accuracy.  
CP3169.GEOID12B height accuracy estimate available here.

CP3169

CP3169. The X, Y, and Z were computed from the position and the ellipsoidal ht.  
CP3169

CP3169. The Laplace correction was computed from DEFLEC12B derived deflections.  
CP3169

CP3169. The ellipsoidal height was determined by GPS observations  
CP3169. and is referenced to NAD 83.

CP3169

CP3169. The following values were computed from the NAD 83(2011) position.

CP3169

CP3169;		North	East	Units	Scale Factor	Converg.
CP3169;SPC MS W	-	334,191.894	698,682.547	MT	0.99995002	-0 00 27.1
CP3169;SPC MS W	-	1,096,427.91	2,292,260.99	sFT	0.99995002	-0 00 27.1
CP3169;UTM 15	-	3,600,560.128	749,185.331	MT	1.00036576	+1 25 35.6

CP3169

CP3169! - Elev Factor x Scale Factor = Combined Factor

CP3169!SPC MS W - 0.99999374 x 0.99995002 = 0.99994376

CP3169!UTM 15 - 0.99999374 x 1.00036576 = 1.00035950

CP3169

SUPERSEDED SURVEY CONTROL

CP3169

CP3169	NAD 83(2007)-	32 30	51.93287(N)	090 20	50.47937(W)	AD(2002.00)	B
CP3169	ELLIP H (02/15/08)		39.866 (m)			GP(2002.00)	4 2
CP3169	NAD 83(2007)-	32 30	51.93184(N)	090 20	50.47948(W)	AD(2002.00)	0
CP3169	ELLIP H (02/10/07)		39.961 (m)			GP(2002.00)	
CP3169	ELLIP H (04/15/02)		39.893 (m)			GP( )	4 2
CP3169	NAD 83(1993)-	32 30	51.93235(N)	090 20	50.47911(W)	AD( )	B
CP3169	ELLIP H (02/15/02)		39.899 (m)			GP( )	4 1
CP3169	NAD 83(1993)-	32 30	51.93122(N)	090 20	50.47787(W)	AD( )	1
CP3169	ELLIP H (05/13/94)		40.024 (m)			GP( )	4 1
CP3169	NAD 83(1986)-	32 30	51.94597(N)	090 20	50.47714(W)	AD( )	1
CP3169	NAVD 88 (02/15/02)		66.5 (m)		GEOID99 model used	GPS OBS	
CP3169	NGVD 29 (02/20/88)		66.5 (m)		RAPOU78 model used	GPS OBS	

CP3169

CP3169. Superseded values are not recommended for survey control.

CP3169

CP3169. NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

CP3169. See file dsdata.txt to determine how the superseded data were derived.

CP3169

CP3169\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15SYS4918500560(NAD 83)

CP3169

CP3169\_MARKER: DH = HORIZONTAL CONTROL DISK

CP3169\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

CP3169\_STAMPING: BOSSLER 1983

CP3169\_MARK LOGO: NONE

CP3169\_MAGNETIC: N = NO MAGNETIC MATERIAL

CP3169\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

CP3169+STABILITY: SURFACE MOTION

CP3169\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

CP3169+SATELLITE: SATELLITE OBSERVATIONS - December 01, 2006

CP3169

CP3169 HISTORY - Date Condition Report By

CP3169 HISTORY - 1983 MONUMENTED NGS



CP3169	HISTORY	- 1987	GOOD	NGS
CP3169	HISTORY	- 19890418	GOOD	MSHD
CP3169	HISTORY	- 20000202	GOOD	NGS
CP3169	HISTORY	- 20040915	GOOD	INDIV
CP3169	HISTORY	- 20061201	GOOD	EMCINC

CP3169  
CP3169  
CP3169

STATION DESCRIPTION

CP3169'DESCRIBED BY NATIONAL GEODETIC SURVEY 1983 (CLN)  
CP3169'THE STATION IS LOCATED ABOUT 20 MI (32.2 KM) NORTHWEST OF JACKSON, 3  
CP3169'MI (4.8 KM) SOUTHWEST OF FLORA, IN THE NORTHEAST CORNER OF SECTION 25,  
CP3169'T 7N, R 1W, ON THE RIGHT-OF-WAY OF STATE HIGHWAY 22. TO REACH FROM  
CP3169'THE JUNCTION OF US HIGHWAY 49 AND STATE HIGHWAY 22 IN THE WEST EDGE OF  
CP3169'FLORA, GO SOUTHWEST ON STATE HIGHWAY 22 FOR 2.2 MI (3.5 KM) TO THE  
CP3169'AZIMUTH MARK ON THE RIGHT, CONTINUE SOUTHWEST ON HIGHWAY 22 FOR 0.4 MI  
CP3169'(0.6 KM) TO THE STATION ON THE RIGHT.  
CP3169'STATION MARK IS A STANDARD NGS DISK STAMPED--BOSSLER 1983--, SET IN  
CP3169'TOP OF A ROUND CONCRETE POST, FLUSH WITH THE GROUND. IT IS 55.02 M  
CP3169'(180.51 FT) SOUTH OF THE SOUTH GATE POST AT ENTRANCE TO SMALL  
CP3169'AIR-STRIP, 39.62 M (129.99 FT) EAST NORTHEAST OF A POWER POLE WITH  
CP3169'TRANSFORMER, 13.26 M (43.50 FT) WEST OF THE CENTER OF HIGHWAY 22 AND  
CP3169'0.30 M (0.98 FT) EAST OF A METAL WITNESS POST AND SIGN. REFERENCE  
CP3169'MARK NO1 IS A STANDARD NGS DISK, STAMPED BOSSLER NO 1 1983, SET IN TOP  
CP3169'OF A ROUND CONCRETE POST, FLUSH WITH THE GROUND. IT IS 41.15 M  
CP3169'(135.01 FT) NORTH OF A POWER POLE, 18.29 M (60.01 FT) EAST OF THE  
CP3169'CENTER OF HIGHWAY 22, 1.07 M (3.51 FT) WEST OF A FENCE AND 0.30 M  
CP3169'(0.98 FT) WEST OF A FIBERGLASS WITNESS POST. REFERENCE MARK NO2 IS A  
CP3169'STANDARD NGS DISK, STAMPED BOSSLER NO 2 1983, SET IN TOP OF A ROUND  
CP3169'CONCRETE POST, FLUSH WITH THE GROUND. IT IS 68.88 M (225.98 FT) SOUTH  
CP3169'OF THE SOUTH GATE POST AT ENTRANCE TO AIR-STRIP, 39.32 M (129.00 FT)  
CP3169'EAST OF A POWER POLE WITH TRANSFORMER, 12.07 M (39.60 FT) WEST OF THE  
CP3169'CENTER OF HIGHWAY 22 AND 0.40 M (1.31 FT) NORTH OF A FIBERGLASS  
CP3169'WITNESS POST. AZIMUTH MARK IS A STANDARD NGS DISK, STAMPED BOSSLER  
CP3169'1983, SET IN TOP OF A ROUND CONCRETE POST, FLUSH WITH THE GROUND. IT  
CP3169'IS 44.19 M (144.98 FT) WEST AND ACROSS HIGHWAY FROM POWER POLE NO 355,  
CP3169'13.11 M (43.01 FT) WEST OF THE CENTER OF HIGHWAY 22, 1.52 M (4.99 FT)  
CP3169'SOUTHEAST OF A METAL UNDERGROUND CABLE JUNCTION BOX AND 0.30 M (0.98  
CP3169'FT) EAST OF A FIBERGLASS WITNESS POST.

CP3169  
CP3169  
CP3169

STATION RECOVERY (1987)

CP3169'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1987 (AJL)  
CP3169'THE STATION WAS RECOVERED AT THIS DATE.  
CP3169'THE REFERENCE MARKS AND AZIMUTH MARK WERE NOT SEARCHED FOR OR USED.  
CP3169'THE FOLLOWING IS THE 1983 DESCRIPTION WHICH IS ADEQUATE TO REACH.  
CP3169'  
CP3169'THE STATION IS LOCATED ABOUT 32.2 KM (20 MI)  
CP3169'NORTHWEST OF JACKSON,  
CP3169'4.8 KM (3 MI) SOUTHWEST OF FLORA, IN THE NORTHEAST CORNER OF  
CP3169'SECTION 25, T7N, R1W AND ON THE RIGHT-OF-WAY OF STATE HIGHWAY 22.  
CP3169'OWNERSHIP--STATE OF MISSISSIPPI.  
CP3169'  
CP3169'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 49 AND STATE  
CP3169'HIGHWAY 22, AT THE WEST EDGE OF FLORA, GO SOUTHWEST FOR  
CP3169'3.5 KM (2.2 MI) ON STATE HIGHWAY 22 TO THE AZIMUTH MARK ON THE





# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 18, 2016
BW1848 *****
BW1848 HT_MOD      - This is a Height Modernization Survey Station.
BW1848 DESIGNATION - D 337
BW1848 PID        - BW1848
BW1848 STATE/COUNTY- LA/CONCORDIA
BW1848 COUNTRY    - US
BW1848 USGS QUAD   - FERRIDAY NORTH (1995)
BW1848
BW1848                                *CURRENT SURVEY CONTROL
BW1848
BW1848* NAD 83(2011) POSITION- 31 37 34.63767(N) 091 31 19.34322(W) ADJUSTED
BW1848* NAD 83(2011) ELLIP HT-    -5.238 (meters)          (06/27/12) ADJUSTED
BW1848* NAD 83(2011) EPOCH   - 2010.00
BW1848* NAVD 88 ORTHO HEIGHT -    20.96 (meters)          68.8 (feet) GPS OBS
BW1848
BW1848 NAVD 88 orthometric height was determined with geoid model      GEOID03
BW1848 GEOID HEIGHT      -          -26.197 (meters)          GEOID03
BW1848 GEOID HEIGHT      -          -26.186 (meters)          GEOID12B
BW1848 NAD 83(2011) X    -    -144,385.505 (meters)          COMP
BW1848 NAD 83(2011) Y    -    -5,433,980.166 (meters)          COMP
BW1848 NAD 83(2011) Z    -     3,325,215.495 (meters)          COMP
BW1848 LAPLACE CORR      -           -0.52 (seconds)          DEFLEC12B
BW1848
BW1848 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
BW1848 Standards:
BW1848      FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
BW1848      Horiz Ellip              SD_N   SD_E   SD_h      (unitless)
BW1848 -----
BW1848 NETWORK      0.42   0.78              0.17   0.17   0.40      0.04883726
BW1848 -----
BW1848 Click here for local accuracies and other accuracy information.
BW1848
BW1848
BW1848.The horizontal coordinates were established by GPS observations
BW1848.and adjusted by the National Geodetic Survey in June 2012.
BW1848
BW1848.NAD 83(2011) refers to NAD 83 coordinates where the reference
BW1848.frame has been affixed to the stable North American tectonic plate. See
BW1848.NA2011 for more information.
BW1848
BW1848.The horizontal coordinates are valid at the epoch date displayed above
BW1848.which is a decimal equivalence of Year/Month/Day.
BW1848
BW1848.The orthometric height was determined by GPS observations and a
BW1848.high-resolution geoid model using precise GPS observation and
BW1848.processing techniques.
BW1848
BW1848
BW1848.Significant digits in the geoid height do not necessarily reflect accuracy.

```



BW1848.GEOID12B height accuracy estimate available here.

BW1848

BW1848.The X, Y, and Z were computed from the position and the ellipsoidal ht.

BW1848

BW1848.The Laplace correction was computed from DEFLEC12B derived deflections.

BW1848

BW1848.The ellipsoidal height was determined by GPS observations

BW1848.and is referenced to NAD 83.

BW1848

BW1848. The following values were computed from the NAD 83(2011) position.

BW1848

BW1848;		North	East	Units	Scale Factor	Converg.
BW1848;SPC LA N	-	125,295.946	1,092,775.409	MT	0.99992760	+0 31 01.4
BW1848;SPC LA N	-	411,075.12	3,585,213.99	sFT	0.99992760	+0 31 01.4
BW1848;UTM 15	-	3,499,961.924	640,171.546	MT	0.99984233	+0 46 30.5
BW1848!	-	Elev Factor	x	Scale Factor	=	Combined Factor
BW1848!SPC LA N	-	1.00000082	x	0.99992760	=	0.99992842
BW1848!UTM 15	-	1.00000082	x	0.99984233	=	0.99984315

BW1848

SUPERSEDED SURVEY CONTROL

BW1848

BW1848	NAD 83(2007)-	31 37 34.63756(N)	091 31 19.34376(W)	AD(2002.00)	0
BW1848	ELLIP H (02/10/07)	-5.231 (m)		GP(2002.00)	
BW1848	NAD 83(1992)-	31 37 34.63730(N)	091 31 19.34368(W)	AD( )	B
BW1848	ELLIP H (06/28/04)	-5.228 (m)		GP( )	4 2
BW1848	NAVD 88 (02/14/94)	20.937 (m)	68.69 (f)	ADJUSTED	1 2
BW1848	NAVD 88 (06/15/91)	20.954 (m)	68.75 (f)	SUPERSEDED	1 2
BW1848	NGVD 29 (??/??/??)	20.939 (m)	68.70 (f)	ADJUSTED	1 2

BW1848

BW1848.Superseded values are not recommended for survey control.

BW1848

BW1848.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

BW1848.See file dsdata.txt to determine how the superseded data were derived.

BW1848

BW1848\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15RXQ4017199961(NAD 83)

BW1848

BW1848\_MARKER: DV = VERTICAL CONTROL DISK

BW1848\_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

BW1848\_STAMPING: D 337 1979

BW1848\_MARK LOGO: NGS

BW1848\_PROJECTION: RECESSED 5 CENTIMETERS

BW1848\_MAGNETIC: N = NO MAGNETIC MATERIAL

BW1848\_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

BW1848\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

BW1848+SATELLITE: SATELLITE OBSERVATIONS - January 17, 2013

BW1848\_ROD/PIPE-DEPTH: 7.62 meters

BW1848

BW1848	HISTORY	-	Date	Condition	Report By
BW1848	HISTORY	-	1979	MONUMENTED	NGS
BW1848	HISTORY	-	2003	GOOD	PYBURN
BW1848	HISTORY	-	20130117	GOOD	JMSM

BW1848

STATION DESCRIPTION

BW1848







WOOLPERT

DN4078 \*\* subsidence areas should be considered valid only at the epoch date
DN4078 \*\* associated with the orthometric height. These heights must always
DN4078 \*\* be validated when used as control. All previously superseded
DN4078 \*\* orthometric heights are now considered suspect and are available
DN4078 \*\* in the superseded section. NGS does not recommend using suspect
DN4078 \*\* or superseded heights as control.

DN4078.The orthometric height was determined by GPS observations and a
DN4078.high-resolution geoid model using precise GPS observation and
DN4078.processing techniques.

DN4078.Significant digits in the geoid height do not necessarily reflect accuracy.
DN4078.GEOID12B height accuracy estimate available here.

DN4078.The X, Y, and Z were computed from the position and the ellipsoidal ht.

DN4078.The Laplace correction was computed from DEFLEC12B derived deflections.

DN4078.The ellipsoidal height was determined by GPS observations

DN4078.and is referenced to NAD 83.

DN4078. The following values were computed from the NAD 83(2011) position.

Table with columns: North, East, Units, Scale Factor, Convergency. Rows include SPC MS W, UTM 15, and conversion factors for SPC MS W and UTM 15.

SUPERSEDED SURVEY CONTROL

DN4078 NAD 83(2007)- 31 13 46.72373(N) 091 17 49.56160(W) AD(2002.00) A
DN4078 ELLIP H (09/06/11) 11.906 (m) GP(2002.00) 4 1

DN4078.Superseded values are not recommended for survey control.

DN4078.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DN4078.See file dsdata.txt to determine how the superseded data were derived.

DN4078\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15RXQ6218956302(NAD 83)

DN4078\_MARKER: DD = SURVEY DISK
DN4078\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DN4078\_STAMPING: D712 2008
DN4078\_MARK LOGO: MSDOT
DN4078\_PROJECTION: FLUSH
DN4078\_MAGNETIC: N = NO MAGNETIC MATERIAL
DN4078\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DN4078+STABILITY: SURFACE MOTION
DN4078\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DN4078+SATELLITE: SATELLITE OBSERVATIONS - May 04, 2009



WOOLPERT

DN4078	HISTORY	- Date	Condition	Report By
DN4078	HISTORY	- 20080928	MONUMENTED	MSDOT
DN4078	HISTORY	- 20090504	GOOD	MSDOT

DN4078

DN4078

DN4078

STATION DESCRIPTION

DN4078'DESCRIBED BY MS DEPT TRANS 2009 (RDB)

DN4078'THE STATION IS LOCATED IN WILKINSON COUNTY MS ON HIGHWAY 61 NEAR THE

DN4078'BUFFALO RIVER BRIDGE, 8.24 MI (13.3 KM) NORTH OF THE TOWN OF

DN4078'WOODVILLE, 14.3 MI (23.0 KM) SOUTHWEST OF THE TOWN OF CROSBY, 23.08 MI

DN4078'(37.1 KM) SOUTH OF THE CITY OF NATCHEZ.

DN4078'

DN4078'TO REACH FROM THE INTERSECTION OF HIGHWAY 61 AND HIGHWAY 24 GO NORTH

DN4078'ON HIGHWAY 61 9.2 MI (14.8 KM) TO THE BUFFALO RIVER BRIDGE AND THE

DN4078'STATION IN THE MEDIAN.

DN4078'

DN4078'THE STATION IS 200 FT (61.0 M) SOUTH OF A CROSS-OVER ON HIGHWAY 61,

DN4078'100 FT (30.5 M) EAST OF THE SOUTHBOUND LANE OF HIGHWAY 61, 25 FT (7.6

DN4078'M) WEST OF THE NORTHBOUND LANE OF HIGHWAY 61 AND 1 FT (0.3 M) SOUTH OF

DN4078'A FIBERGLASS WITNESS POST.



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 19, 2016
DN4083 *****
DN4083 HT_MOD      - This is a Height Modernization Survey Station.
DN4083 DESIGNATION - D 717
DN4083 PID        - DN4083
DN4083 STATE/COUNTY- MS/ADAMS
DN4083 COUNTRY    - US
DN4083 USGS QUAD   - NATCHEZ (1976)
DN4083
DN4083                                *CURRENT SURVEY CONTROL
DN4083
DN4083* NAD 83(2011) POSITION- 31 33 13.74478(N) 091 24 51.09103(W) ADJUSTED
DN4083* NAD 83(2011) ELLIP HT- 26.800 (meters) (06/27/12) ADJUSTED
DN4083* NAD 83(2011) EPOCH - 2010.00
DN4083* NAVD 88 ORTHO HEIGHT - 53.08 (meters) 174.1 (feet) GPS OBS
DN4083* NAVD 88 EPOCH - 2009.55
DN4083 **This station is located in a suspected subsidence area (see below).
DN4083
DN4083 NAVD 88 orthometric height was determined with geoid model GEOID12A
DN4083 GEOID HEIGHT - -26.271 (meters) GEOID12A
DN4083 GEOID HEIGHT - -26.271 (meters) GEOID12B
DN4083 NAD 83(2011) X - -134,261.434 (meters) COMP
DN4083 NAD 83(2011) Y - -5,438,477.611 (meters) COMP
DN4083 NAD 83(2011) Z - 3,318,387.504 (meters) COMP
DN4083 LAPLACE CORR - 0.31 (seconds) DEFLEC12B
DN4083
DN4083 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DN4083 Standards:
DN4083      FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
DN4083      Horiz Ellip      SD_N SD_E SD_h      (unitless)
DN4083 -----
DN4083 NETWORK      0.69 0.94      0.28 0.28 0.48      0.06262916
DN4083 -----
DN4083 Click here for local accuracies and other accuracy information.
DN4083
DN4083
DN4083.The horizontal coordinates were established by GPS observations
DN4083.and adjusted by the National Geodetic Survey in June 2012.
DN4083
DN4083.NAD 83(2011) refers to NAD 83 coordinates where the reference
DN4083.frame has been affixed to the stable North American tectonic plate. See
DN4083.NA2011 for more information.
DN4083
DN4083.The horizontal coordinates are valid at the epoch date displayed above
DN4083.which is a decimal equivalence of Year/Month/Day.
DN4083
DN4083 ** This station is in an area of known vertical motion. Due to the
DN4083 ** variability of land subsidence, uplift, and crustal motion, NGS has,
DN4083 ** determined the orthometric heights for marks in these suspect

```



DN4083 \*\* subsidence areas should be considered valid only at the epoch date  
 DN4083 \*\* associated with the orthometric height. These heights must always  
 DN4083 \*\* be validated when used as control. All previously superseded  
 DN4083 \*\* orthometric heights are now considered suspect and are available  
 DN4083 \*\* in the superseded section. NGS does not recommend using suspect  
 DN4083 \*\* or superseded heights as control.  
 DN4083  
 DN4083.The orthometric height was determined by GPS observations and a  
 DN4083.high-resolution geoid model using precise GPS observation and  
 DN4083.processing techniques.  
 DN4083  
 DN4083.Significant digits in the geoid height do not necessarily reflect accuracy.  
 DN4083.GEOID12B height accuracy estimate available here.  
 DN4083  
 DN4083.The X, Y, and Z were computed from the position and the ellipsoidal ht.  
 DN4083  
 DN4083.The Laplace correction was computed from DEFLEC12B derived deflections.  
 DN4083  
 DN4083.The ellipsoidal height was determined by GPS observations  
 DN4083.and is referenced to NAD 83.  
 DN4083  
 DN4083. The following values were computed from the NAD 83(2011) position.  
 DN4083  
 DN4083;  

	North	East	Units	Scale	Factor	Converg.
DN4083;SPC MS W	- 228,184.385	597,377.141	MT	1.00007984	-0 33 56.4	
DN4083;SPC MS W	- 748,634.94	1,959,894.84	sFT	1.00007984	-0 33 56.4	
DN4083;UTM 15	- 3,492,071.716	650,517.616	MT	0.99987943	+0 49 48.0	

 DN4083  
 DN4083!  

	Elev Factor	x	Scale Factor	=	Combined Factor
DN4083!SPC MS W	- 0.99999579	x	1.00007984	=	1.00007563
DN4083!UTM 15	- 0.99999579	x	0.99987943	=	0.99987522

 DN4083  
 DN4083  

SUPERSEDED SURVEY CONTROL

 DN4083  
 DN4083  
 DN4083 NAD 83(2007)- 31 33 13.74454(N) 091 24 51.09140(W) AD(2002.00) A  
 DN4083 ELLIP H (09/06/11) 26.782 (m) GP(2002.00) 4 1  
 DN4083  
 DN4083.Superseded values are not recommended for survey control.  
 DN4083  
 DN4083.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
 DN4083.See file dsdata.txt to determine how the superseded data were derived.  
 DN4083  
 DN4083\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15RXQ5051792071(NAD 83)  
 DN4083  
 DN4083\_MARKER: DD = SURVEY DISK  
 DN4083\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT  
 DN4083\_STAMPING: D717 2008  
 DN4083\_MARK LOGO: MSDOT  
 DN4083\_PROJECTION: FLUSH  
 DN4083\_MAGNETIC: N = NO MAGNETIC MATERIAL  
 DN4083\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO  
 DN4083+STABILITY: SURFACE MOTION  
 DN4083\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
 DN4083+SATELLITE: SATELLITE OBSERVATIONS - May 04, 2009  
 DN4083



DN4083	HISTORY	- Date	Condition	Report By
DN4083	HISTORY	- 20081212	MONUMENTED	MSDOT
DN4083	HISTORY	- 20090504	GOOD	MSDOT

DN4083

DN4083

DN4083

STATION DESCRIPTION

DN4083'DESCRIBED BY MS DEPT TRANS 2009 (RDB)

DN4083'THE STATION IS LOCATED IN THE CITY OF NATCHEZ IN THE MEDIAN OF JOHN R.

DN4083'JUNKIN DRIVE, 1230 FT (374.9 M) FROM THE EAST BANK OF THE MISSISSIPPI

DN4083'RIVER, 920 FT (280.4 M) SOUTH OF THE INTERSECTION OF JOHN R. JUNKIN

DN4083'DRIVE AND S CANAL STREET, .25 MI EAST OF THE EAST BANK OF THE

DN4083'MISSISSIPPI RIVER, 1.86 MI (3.0 KM) EAST OF THE CITY OF VIDALIA, LA.

DN4083'TO REACH FROM THE INTERSECTION OF S CANAL STREET AND JOHN R. JUNKIN

DN4083'DRIVE GO WEST ON JOHN R. JUNKIN DRIVE 920 FT (280.4 M) TO A CROSS-OVER

DN4083'AND THE STATION IN THE MEDIAN.

DN4083'

DN4083'THE STATION IS 60 FT (18.3 M) WEST OF THE WESTBOUND LANE OF JOHN R.

DN4083'JUNKIN DRIVE, 50 FT (15.2 M) WEST OF A PAVED DITCH, 20 FT (6.1 M)

DN4083'SOUTH OF THE CENTER OF A CROSS-OVER, AND 1 FT (0.3 M) SOUTH OF A

DN4083'FIBERGLASS WITNESS POST.



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 18, 2016
DN4068 *****
DN4068 HT_MOD      - This is a Height Modernization Survey Station.
DN4068 DESIGNATION - DS 72
DN4068 PID        - DN4068
DN4068 STATE/COUNTY- MS/FRANKLIN
DN4068 COUNTRY    - US
DN4068 USGS QUAD   - MC CALL CREEK (1972)
DN4068
DN4068                                *CURRENT SURVEY CONTROL
DN4068
DN4068* NAD 83(2011) POSITION- 31 30 56.92602(N) 090 38 57.04184(W) ADJUSTED
DN4068* NAD 83(2011) ELLIP HT- 69.887 (meters) (06/27/12) ADJUSTED
DN4068* NAD 83(2011) EPOCH - 2010.00
DN4068* NAVD 88 ORTHO HEIGHT - 95.94 (meters) 314.8 (feet) GPS OBS
DN4068* NAVD 88 EPOCH - 2009.55
DN4068 **This station is located in a suspected subsidence area (see below).
DN4068
DN4068 NAVD 88 orthometric height was determined with geoid model GEOID12A
DN4068 GEOID HEIGHT - -26.049 (meters) GEOID12A
DN4068 GEOID HEIGHT - -26.049 (meters) GEOID12B
DN4068 NAD 83(2011) X - -61,662.418 (meters) COMP
DN4068 NAD 83(2011) Y - -5,442,026.022 (meters) COMP
DN4068 NAD 83(2011) Z - 3,314,818.352 (meters) COMP
DN4068 LAPLACE CORR - 0.31 (seconds) DEFLEC12B
DN4068
DN4068 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DN4068 Standards:
DN4068      FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
DN4068      Horiz Ellip      SD_N SD_E SD_h      (unitless)
DN4068 -----
DN4068 NETWORK      0.72 1.00      0.29 0.30 0.51      0.08602043
DN4068 -----
DN4068 Click here for local accuracies and other accuracy information.
DN4068
DN4068
DN4068.The horizontal coordinates were established by GPS observations
DN4068.and adjusted by the National Geodetic Survey in June 2012.
DN4068
DN4068.NAD 83(2011) refers to NAD 83 coordinates where the reference
DN4068.frame has been affixed to the stable North American tectonic plate. See
DN4068.NA2011 for more information.
DN4068
DN4068.The horizontal coordinates are valid at the epoch date displayed above
DN4068.which is a decimal equivalence of Year/Month/Day.
DN4068
DN4068 ** This station is in an area of known vertical motion. Due to the
DN4068 ** variability of land subsidence, uplift, and crustal motion, NGS has,
DN4068 ** determined the orthometric heights for marks in these suspect

```





DN4068	HISTORY	- Date	Condition	Report By
DN4068	HISTORY	- 20081003	MONUMENTED	MSDOT
DN4068	HISTORY	- 20090504	GOOD	MSDOT

DN4068

DN4068

DN4068

STATION DESCRIPTION

DN4068'DESCRIBED BY MS DEPT TRANS 2009 (RDB)

DN4068'THE STATION IS LOCATED IN FRANKLIN COUNTY ON HIGHWAY 84, 3.1 MI (5.0  
DN4068'KM) EAST OF THE VILLAGE OF MCCALL CREEK, 12.7 MI (20.4 KM) SOUTHWEST  
DN4068'OF THE CITY OF BROOKHAVEN, 10 MI (16.1 KM) WEST OF THE INTERSECTION OF  
DN4068'INTERSTATE 55 AND HIGHWAY 84.

DN4068'

DN4068'TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE 55 AND  
DN4068'HIGHWAY 84 GO WEST ON HIGHWAY 84 10.2 MI (16.4 KM) TO THE STATION ON  
DN4068'THE LEFT.

DN4068'

DN4068'THE STATION IS 250 FT (76.2 M) EAST OF A CROSS OVER ON HIGHWAY 84, 30  
DN4068'FT (9.1 M) WEST OF A GUARD RAIL, 30 FT (9.1 M) NORTH OF THE CENTER OF  
DN4068'THE EAST BOUND LANE OF HIGHWAY 84, AND 1 FT (0.3 M) SOUTH OF A  
DN4068'FIBERGLASS WITNESS POST.



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 18, 2016
BW0395 *****
BW0395 HT_MOD      - This is a Height Modernization Survey Station.
BW0395 CBN        - This is a Cooperative Base Network Control Station.
BW0395 DESIGNATION - F 19
BW0395 PID        - BW0395
BW0395 STATE/COUNTY- MS/AMITE
BW0395 COUNTRY    - US
BW0395 USGS QUAD  - PEORIA (1972)
BW0395
BW0395                                *CURRENT SURVEY CONTROL
BW0395
BW0395* NAD 83(2011) POSITION- 31 10 21.70520(N) 090 44 44.92573(W) ADJUSTED
BW0395* NAD 83(2011) ELLIP HT- 99.230 (meters) (06/27/12) ADJUSTED
BW0395* NAD 83(2011) EPOCH - 2010.00
BW0395* NAVD 88 ORTHO HEIGHT - 125.87 (meters) 413.0 (feet) GPS OBS
BW0395* NAVD 88 EPOCH - 2009.55
BW0395 **This station is located in a suspected subsidence area (see below).
BW0395
BW0395 NAVD 88 orthometric height was determined with geoid model GEOID12A
BW0395 GEOID HEIGHT - -26.637 (meters) GEOID12A
BW0395 GEOID HEIGHT - -26.637 (meters) GEOID12B
BW0395 NAD 83(2011) X - -71,098.703 (meters) COMP
BW0395 NAD 83(2011) Y - -5,461,727.182 (meters) COMP
BW0395 NAD 83(2011) Z - 3,282,342.139 (meters) COMP
BW0395 LAPLACE CORR - 0.10 (seconds) DEFLEC12B
BW0395
BW0395 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
BW0395 Standards:
BW0395      FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
BW0395      Horiz Ellip              SD_N   SD_E   SD_h      (unitless)
BW0395 -----
BW0395 NETWORK      0.93   1.59              0.39   0.37   0.81      0.07329523
BW0395 -----
BW0395 Click here for local accuracies and other accuracy information.
BW0395
BW0395
BW0395.The horizontal coordinates were established by GPS observations
BW0395.and adjusted by the National Geodetic Survey in June 2012.
BW0395
BW0395.NAD 83(2011) refers to NAD 83 coordinates where the reference
BW0395.frame has been affixed to the stable North American tectonic plate. See
BW0395.NA2011 for more information.
BW0395
BW0395.The horizontal coordinates are valid at the epoch date displayed above
BW0395.which is a decimal equivalence of Year/Month/Day.
BW0395
BW0395 ** This station is in an area of known vertical motion. Due to the
BW0395 ** variability of land subsidence, uplift, and crustal motion, NGS has,

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BW0395\_MARK LOGO: CGS  
BW0395\_PROJECTION: PROJECTING 30 CENTIMETERS  
BW0395\_MAGNETIC: N = NO MAGNETIC MATERIAL  
BW0395\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO  
BW0395+STABILITY: SURFACE MOTION  
BW0395\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
BW0395+SATELLITE: SATELLITE OBSERVATIONS - January 23, 2016

BW0395

BW0395	HISTORY	- Date	Condition	Report By
BW0395	HISTORY	- 1934	MONUMENTED	CGS
BW0395	HISTORY	- 1969	GOOD	MSHD
BW0395	HISTORY	- 20000606	GOOD	NGS
BW0395	HISTORY	- 20080408	GOOD	MSSU
BW0395	HISTORY	- 20081112	GOOD	MSDOT
BW0395	HISTORY	- 20160123	GOOD	COMPDA

BW0395  
BW0395 STATION DESCRIPTION  
BW0395

BW0395'DESCRIBED BY MISSISSIPPI STATE HIGHWAY DEPARTMENT 1969  
BW0395'3.9 MI E NE FROM LIBERTY.  
BW0395'THE MARK IS LOCATED 3.9 MILES EAST NORTHEAST OF LIBERTY IN THE  
BW0395'SOUTHEAST ANGLE OF THE CROSSING OF OLD HIGHWAY 24 AND A GRAVELED ROAD  
BW0395'IN THE NORTHWEST 1/4 OF SECTION 6,T 2N, R 5E, AND ON LAND OWNED BY  
BW0395'MRS. C. P. ROBERTSON. (NOTE) THE OLD HIGHWAY HAS BEEN ABANDONED AT  
BW0395'THE POINT AND IS NOW IN A PASTURE. IT IS 43 FEET NORTHEAST OF THE  
BW0395'CENTER OF A GRAVELED ROAD, 33 FEET SOUTHEAST OF THE CENTER OF THE OLD  
BW0395'HIGHWAY, 64 FEET SOUTHEAST OF A POWER LINE POLE WITH A TRANSFORMER AND  
BW0395'A GUY WIRE, 68.5 FEET EAST OF A T FENCE CORNER, 1 FOOT EAST OF A METAL  
BW0395'WITNESS POST, SET IN THE TOP OF A 9 INCH SQUARE CONCRETE POST  
BW0395'PROJECTING 12 INCHES, AND IS ABOUT LEVEL WITH THE GRAVELED ROAD.  
BW0395'NOTE-- TO REACH FROM THE AMITE COUNTY COURTHOUSE IN LIBERTY GO EAST ON  
BW0395'STATE HIGHWAY 24 FOR 3.9 MILES TO A SIDE ROAD RIGHT. TURN RIGHT  
BW0395'(SOUTH) AND CONTINUE ON A GRAVELED ROAD FOR 0.1 MILE TO THE CROSSING  
BW0395'OF THE OLD HIGHWAY AND THE MARK ON THE LEFT. NOTE-- ABOUT 6 INCHES OF  
BW0395'DIRT HAS ERODED FROM THE NORTH SIDE OF THE MARK.

BW0395  
BW0395 STATION RECOVERY (2000)  
BW0395

BW0395'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2000  
BW0395'RECOVERED AS AMENDED. THE STATION IS 43 FT (13.1 M) NE OF THE CENTER  
BW0395'OF WINDING RD. THERE IS A STREET SIGN ON RTE 24. OLD HWY 24 IS NOT  
BW0395'EVIDENT.

BW0395  
BW0395 STATION RECOVERY (2008)  
BW0395

BW0395'RECOVERY NOTE BY MISSISSIPPI STATE UNIVERSITY 2008 (DHN)  
BW0395'RECOVERED IN GOOD CONDITION.

BW0395  
BW0395 STATION RECOVERY (2008)  
BW0395

BW0395'RECOVERY NOTE BY MS DEPT TRANS 2008 (RDB)  
BW0395'RECOVERED AS DESCRIBED.

BW0395  
BW0395 STATION RECOVERY (2016)  
BW0395



WOOLPERT

BW0395'RECOVERY NOTE BY COMPASSDATA INC 2016 (NK)  
BW0395'RECOVERED IN GOOD CONDITION.



# The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 20, 2016
CP3406 *****
CP3406 DESIGNATION - F 363
CP3406 PID - CP3406
CP3406 STATE/COUNTY- MS/WARREN
CP3406 COUNTRY - US
CP3406 USGS QUAD - VICKSBURG EAST (1962)
CP3406
CP3406 *CURRENT SURVEY CONTROL
CP3406
CP3406* NAD 83(2011) POSITION- 32 20 49.32338(N) 090 51 31.88504(W) ADJUSTED
CP3406* NAD 83(2011) ELLIP HT- 51.594 (meters) (06/27/12) ADJUSTED
CP3406* NAD 83(2011) EPOCH - 2010.00
CP3406* NAVD 88 ORTHO HEIGHT - 78.182 (meters) 256.50 (feet) ADJUSTED
CP3406
CP3406 NAD 83(2011) X - -80,846.555 (meters) COMP
CP3406 NAD 83(2011) Y - -5,393,004.486 (meters) COMP
CP3406 NAD 83(2011) Z - 3,393,032.159 (meters) COMP
CP3406 LAPLACE CORR - 0.33 (seconds) DEFLEC12B
CP3406 GEOID HEIGHT - -26.576 (meters) GEOID12B
CP3406 DYNAMIC HEIGHT - 78.091 (meters) 256.20 (feet) COMP
CP3406 MODELED GRAVITY - 979,481.0 (mgal) NAVD 88
CP3406
CP3406 VERT ORDER - FIRST CLASS II
CP3406
CP3406 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
CP3406 Standards:
CP3406 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
CP3406 Horiz Ellip SD_N SD_E SD_h (unitless)
CP3406 -----
CP3406 NETWORK 0.66 1.10 0.29 0.25 0.56 -0.01853597
CP3406 -----
CP3406 Click here for local accuracies and other accuracy information.
CP3406
CP3406
CP3406.The horizontal coordinates were established by GPS observations
CP3406.and adjusted by the National Geodetic Survey in June 2012.
CP3406
CP3406.NAD 83(2011) refers to NAD 83 coordinates where the reference
CP3406.frame has been affixed to the stable North American tectonic plate. See
CP3406.NA2011 for more information.
CP3406
CP3406.The horizontal coordinates are valid at the epoch date displayed above
CP3406.which is a decimal equivalence of Year/Month/Day.
CP3406
CP3406.The orthometric height was determined by differential leveling and
CP3406.adjusted by the NATIONAL GEODETIC SURVEY
CP3406.in July 1994.
CP3406

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CP3406.Significant digits in the geoid height do not necessarily reflect accuracy.  
CP3406.GEOID12B height accuracy estimate available here.

CP3406

CP3406.The X, Y, and Z were computed from the position and the ellipsoidal ht.  
CP3406

CP3406.The Laplace correction was computed from DEFLEC12B derived deflections.  
CP3406

CP3406.The ellipsoidal height was determined by GPS observations  
CP3406.and is referenced to NAD 83.

CP3406

CP3406.The dynamic height is computed by dividing the NAVD 88  
CP3406.geopotential number by the normal gravity value computed on the  
CP3406.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45  
CP3406.degrees latitude (g = 980.6199 gals.).

CP3406

CP3406.The modeled gravity was interpolated from observed gravity values.  
CP3406

CP3406. The following values were computed from the NAD 83(2011) position.  
CP3406

CP3406;		North	East	Units	Scale	Factor	Converg.
CP3406;SPC MS W	-	315,751.340	650,531.746	MT	0.99998017	-0 16	52.3
CP3406;SPC MS W	-	1,035,927.52	2,134,286.24	sFT	0.99998017	-0 16	52.3
CP3406;UTM 15	-	3,580,917.889	701,497.150	MT	1.00010070	+1 08	45.6
CP3406!	-	Elev Factor	x	Scale Factor	=	Combined Factor	
CP3406!SPC MS W	-	0.99999190	x	0.99998017	=	0.99997207	
CP3406!UTM 15	-	0.99999190	x	1.00010070	=	1.00009260	

CP3406

SUPERSEDED SURVEY CONTROL

CP3406

CP3406	NAD 83(2007)-	32 20 49.32329(N)	090 51 31.88576(W)	AD(2002.00)	0
CP3406	ELLIP H (02/10/07)	51.619 (m)		GP(2002.00)	
CP3406	NAD 83(1993)-	32 20 49.32350(N)	090 51 31.88545(W)	AD( )	B
CP3406	ELLIP H (06/28/04)	51.630 (m)		GP( )	4 2
CP3406	NAD 83(1993)-	32 20 49.32350(N)	090 51 31.88545(W)	AD( )	1
CP3406	ELLIP H (11/18/03)	51.633 (m)		GP( )	3 2
CP3406	NAVD 88 (11/18/03)	78.18 (m)	256.5 (f)	LEVELING	3

CP3406

CP3406.Superseded values are not recommended for survey control.

CP3406

CP3406.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
CP3406.See file dsdata.txt to determine how the superseded data were derived.

CP3406

CP3406\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15SYR0149780917(NAD 83)

CP3406

CP3406\_MARKER: I = METAL ROD

CP3406\_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

CP3406\_STAMPING: F 363 1992

CP3406\_MARK LOGO: NGS

CP3406\_PROJECTION: FLUSH

CP3406\_MAGNETIC: N = NO MAGNETIC MATERIAL

CP3406\_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD

CP3406+STABILITY: POSITION/ELEVATION WELL

CP3406\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

CP3406+SATELLITE: SATELLITE OBSERVATIONS - January 26, 2016



CP3406\_ROD/PIPE-DEPTH: 19.1 meters

CP3406

CP3406	HISTORY	- Date	Condition	Report By
CP3406	HISTORY	- 1992	MONUMENTED	NGS
CP3406	HISTORY	- 20000215	GOOD	MSHD
CP3406	HISTORY	- 20020620	GOOD	PYBURN
CP3406	HISTORY	- 20040315	GOOD	MSHD
CP3406	HISTORY	- 20050319	GOOD	USPSQD
CP3406	HISTORY	- 20150315	GOOD	MSSU
CP3406	HISTORY	- 20160126	GOOD	COMPDA

CP3406

CP3406

STATION DESCRIPTION

CP3406

CP3406 'DESCRIBED BY NATIONAL GEODETIC SURVEY 1992

CP3406 'IN VICKSBURG, AT THE INTERSECTION OF CLAY AND CLEVELAND STREETS, 16.5

CP3406 'M (54.1 FT) EAST OF THE CENTER OF CLEVELAND STREET, 13.9 M (45.6 FT)

CP3406 'NORTH OF AND LEVEL WITH THE CENTERLINE OF CLAY STREET, 2.6 M (8.5 FT)

CP3406 'SOUTH OF THE MOST WESTERLY OF THREE FLAGPOLES, AND 1.5 M (4.9 FT) WEST

CP3406 'OF THE NORTH LEG OF A SIGN (PARK VIEW MEDICAL CENTER). NOTE--ACCESS

CP3406 'TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

CP3406

CP3406

STATION RECOVERY (2000)

CP3406

CP3406 'RECOVERY NOTE BY MISSISSIPPI STATE HIGHWAY DEPARTMENT 2000

CP3406 'RECOVERED IN GOOD CONDITION.

CP3406

CP3406

STATION RECOVERY (2002)

CP3406

CP3406 'RECOVERY NOTE BY PYBURN AND ODOM, INCORPORATED 2002

CP3406 'RECOVERED AS DESCRIBED

CP3406 'IPYBURN

CP3406 '

CP3406

CP3406

STATION RECOVERY (2004)

CP3406

CP3406 'RECOVERY NOTE BY MISSISSIPPI STATE HIGHWAY DEPARTMENT 2004

CP3406 'RECOVERY NOTE BY PYBURN AND ODOM, INC. 2004 STATION RECOVERED IN GOOD

CP3406 'CONDITION AS DESCRIBED.

CP3406

CP3406

STATION RECOVERY (2005)

CP3406

CP3406 'RECOVERY NOTE BY US POWER SQUADRON 2005 (KDW)

CP3406 'RECOVERED IN GOOD CONDITION.

CP3406

CP3406

STATION RECOVERY (2015)

CP3406

CP3406 'RECOVERY NOTE BY MISSISSIPPI STATE UNIVERSITY 2015 (AG)

CP3406 'RECOVERED IN GOOD CONDITION.

CP3406

CP3406

STATION RECOVERY (2016)

CP3406

CP3406 'RECOVERY NOTE BY COMPASSDATA INC 2016 (NK)

CP3406 'RECOVERED IN GOOD CONDITION.



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 18, 2016
BW0055 *****
BW0055 HT_MOD      -   This is a Height Modernization Survey Station.
BW0055 DESIGNATION -   G 208 RESET 1976
BW0055 PID        -   BW0055
BW0055 STATE/COUNTY- LA/POINTE COUPEE
BW0055 COUNTRY    -   US
BW0055 USGS QUAD  -   BIG BEND (1982)
BW0055
BW0055                                *CURRENT SURVEY CONTROL
BW0055
BW0055* NAD 83(2011) POSITION- 31 00 29.21288(N) 091 45 35.37568(W) ADJUSTED
BW0055* NAD 83(2011) ELLIP HT- -12.824 (meters) (06/27/12) ADJUSTED
BW0055* NAD 83(2011) EPOCH - 2010.00
BW0055* NAVD 88 ORTHO HEIGHT - 14.22 (meters) 46.7 (feet) GPS OBS
BW0055
BW0055 NAVD 88 orthometric height was determined with geoid model GEOID12A
BW0055 GEOID HEIGHT - -27.019 (meters) GEOID12A
BW0055 GEOID HEIGHT - -27.019 (meters) GEOID12B
BW0055 NAD 83(2011) X - -168,029.945 (meters) COMP
BW0055 NAD 83(2011) Y - -5,468,936.045 (meters) COMP
BW0055 NAD 83(2011) Z - 3,266,658.047 (meters) COMP
BW0055 LAPLACE CORR - -0.38 (seconds) DEFLEC12B
BW0055
BW0055 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
BW0055 Standards:
BW0055      FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
BW0055      Horiz Ellip      SD_N SD_E SD_h      (unitless)
BW0055 -----
BW0055 NETWORK      0.72  1.10      0.29  0.30  0.56      0.11881792
BW0055 -----
BW0055 Click here for local accuracies and other accuracy information.
BW0055
BW0055
BW0055.The horizontal coordinates were established by GPS observations
BW0055.and adjusted by the SEASIDE ENGINEERING & SURV in August 2014.
BW0055
BW0055.NAD 83(2011) refers to NAD 83 coordinates where the reference
BW0055.frame has been affixed to the stable North American tectonic plate. See
BW0055.NA2011 for more information.
BW0055
BW0055.The horizontal coordinates are valid at the epoch date displayed above
BW0055.which is a decimal equivalence of Year/Month/Day.
BW0055
BW0055.The orthometric height was determined by GPS observations and a
BW0055.high-resolution geoid model using precise GPS observation and
BW0055.processing techniques.
BW0055
BW0055.Significant digits in the geoid height do not necessarily reflect accuracy.

```



BW0055.GEOID12B height accuracy estimate available here.

BW0055

BW0055.Photographs are available for this station.

BW0055

BW0055.The X, Y, and Z were computed from the position and the ellipsoidal ht.

BW0055

BW0055.The Laplace correction was computed from DEFLEC12B derived deflections.

BW0055

BW0055.The ellipsoidal height was determined by GPS observations

BW0055.and is referenced to NAD 83.

BW0055

BW0055. The following values were computed from the NAD 83(2011) position.

BW0055

BW0055;		North	East	Units	Scale Factor	Converg.
BW0055;SPC LA S	-	278,100.250	959,268.361	MT	1.00008004	-0 12 47.7
BW0055;SPC LA S	-	912,400.57	3,147,199.61	sFT	1.00008004	-0 12 47.7
BW0055;UTM 15	-	3,431,161.368	618,388.815	MT	0.99977289	+0 38 20.3

BW0055

BW0055! - Elev Factor x Scale Factor = Combined Factor

BW0055!SPC LA S - 1.00000201 x 1.00008004 = 1.00008205

BW0055!UTM 15 - 1.00000201 x 0.99977289 = 0.99977490

BW0055

SUPERSEDED SURVEY CONTROL

BW0055

BW0055	NAD 83(2011)-	31 00 29.21268(N)	091 45 35.37672(W)	AD(2010.00)	0
BW0055	NAD 83(2007)-	31 00 29.21267(N)	091 45 35.37736(W)	AD(2002.00)	0
BW0055	ELLIP H (02/10/07)	-12.815 (m)		GP(2002.00)	
BW0055	NAD 83(1992)-	31 00 29.21261(N)	091 45 35.37714(W)	AD( ) B	
BW0055	ELLIP H (12/29/04)	-12.815 (m)		GP( ) 4 1	
BW0055	NAVD 88 (01/05/06)	14.28 (m)	GEOID03 model used	GP(2004.65)	
BW0055	NAVD 88 (05/09/05)	14.32 (m)	USGG200 model used	GPS OBS	
BW0055	NAVD 88 (02/14/94)	14.165 (m)	46.47 (f)	ADJUSTED	1 1
BW0055	NAVD 88 (06/15/91)	14.191 (m)	46.56 (f)	SUPERSEDED	1 1
BW0055	NGVD 29 (??/??/??)	14.140 (m)	46.39 (f)	ADJUSTED	1 1

BW0055

BW0055.Superseded values are not recommended for survey control.

BW0055

BW0055.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

BW0055.See file dsdata.txt to determine how the superseded data were derived.

BW0055

BW0055\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15RXQ1838831161(NAD 83)

BW0055

BW0055\_MARKER: DV = VERTICAL CONTROL DISK

BW0055\_SETTING: 46 = COPPER-CLAD STEEL ROD W/O SLEEVE (10 FT.+)

BW0055\_STAMPING: G208 RESET 1976

BW0055\_MARK LOGO: NGS

BW0055\_PROJECTION: FLUSH

BW0055\_MAGNETIC: I = MARKER IS A STEEL ROD

BW0055\_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

BW0055\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

BW0055+SATELLITE: SATELLITE OBSERVATIONS - January 22, 2013

BW0055\_ROD/PIPE-DEPTH: 3.0 meters

BW0055

BW0055 HISTORY - Date Condition Report By

BW0055 HISTORY - 1976 MONUMENTED NGS



BW0055 HISTORY - 20021106 GOOD 3001  
BW0055 HISTORY - 20061031 GOOD JCLS  
BW0055 HISTORY - 20090306 GOOD WOOLPT  
BW0055 HISTORY - 20130122 GOOD JMSM

BW0055

BW0055

BW0055

STATION DESCRIPTION

BW0055'DESCRIBED BY NATIONAL GEODETIC SURVEY 1976

BW0055'3.4 MI NE FROM SIMMESPORT.

BW0055'3.4 MILES NORTHEAST ALONG STATE HIGHWAY 418 FROM THE JUNCTION OF  
BW0055'STATE HIGHWAY 417, 0.1 MILE NORTH OF A LARGE WHITE FARMHOUSE, 34 FT  
BW0055'NORTHWEST OF THE CENTER LINE OF THE HIGHWAY, 33 FT NORTHEAST OF THE  
BW0055'CENTER OF A WIRE GATE, 1.5 FT NORTHWEST OF A FENCE LINE

BW0055

BW0055

BW0055

STATION RECOVERY (2002)

BW0055'RECOVERY NOTE BY 3001, INC 2002 (KC)

BW0055'THE STATION IS LOCATED 3.2 MILES NORTHEAST OF SIMMSPORT, 4.9 MILES

BW0055'NORTHWEST OF LETTSWORTH, 5 MILES WEST OF A BRIDGE OVER OLD RIVER

BW0055'LOCKS.

BW0055'

BW0055'OWNERSHIP- COE

BW0055'

BW0055'TO REACH THE STATION FROM THE INTERSECTION OF HWY 1 AND HWY 418 ON THE

BW0055'SOUTHERN END OF THE SIMMSPORT BRIDGE OVER ATCHAFALAYA RIVER, GO

BW0055'NORTHEAST ON HWY 418 ALONG LEVEE FOR 3.6 MILES TO A MARK ON THE LEFT

BW0055'NEAR THE TOE OF THE LEVEE JUST PAST A WHITE HOUSE 16403.

BW0055'

BW0055'THE STATION IS 34' NORTHWEST OF THE CENTERLINE OF HWY 418, 41'

BW0055'NORTHEAST OF A LONER 6IN ROUND FENCE POST WITH A WITNESS SIGN NAILED

BW0055'TO IT. STATION IS A BENCH MARK DISK SET ON TOP OF A COPPER CLAD STEEL

BW0055'ROD WHICH IS DRIVEN 10 FT INTO THE GROUND, STAMPED G208 RESET 1976.

BW0055

BW0055

BW0055

STATION RECOVERY (2006)

BW0055'RECOVERY NOTE BY JOHN CHANCE LAND SURVEYS INC 2006 (MRY)

BW0055'RECOVERED IN GOOD CONDITION.

BW0055

BW0055

BW0055

STATION RECOVERY (2009)

BW0055'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2009 (JPD)

BW0055'RECOVERED AS DESCRIBED

BW0055

BW0055

BW0055

STATION RECOVERY (2013)

BW0055'RECOVERY NOTE BY JOHNSON-MCADAMS SURVEYING AND MAPPING 2013 (GJ)

BW0055'RECOVERED AS DESCRIBED IN GOOD CONDITION.



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 20, 2016
CP3410 *****
CP3410 CBN          - This is a Cooperative Base Network Control Station.
CP3410 DESIGNATION - G 363
CP3410 PID          - CP3410
CP3410 STATE/COUNTY- MS/WARREN
CP3410 COUNTRY     - US
CP3410 USGS QUAD   - BOVINA (1972)
CP3410
CP3410                      *CURRENT SURVEY CONTROL
CP3410
CP3410* NAD 83(2011) POSITION- 32 21 16.06451(N) 090 38 33.21666(W) ADJUSTED
CP3410* NAD 83(2011) ELLIP HT- 18.680 (meters) (06/27/12) ADJUSTED
CP3410* NAD 83(2011) EPOCH   - 2010.00
CP3410* NAVD 88 ORTHO HEIGHT - 45.240 (meters) 148.42 (feet) ADJUSTED
CP3410
CP3410 NAD 83(2011) X   - -60,481.690 (meters) COMP
CP3410 NAD 83(2011) Y   - -5,392,802.707 (meters) COMP
CP3410 NAD 83(2011) Z   - 3,393,710.422 (meters) COMP
CP3410 LAPLACE CORR    - 0.23 (seconds) DEFLEC12B
CP3410 GEOID HEIGHT    - -26.587 (meters) GEOID12B
CP3410 DYNAMIC HEIGHT  - 45.188 (meters) 148.25 (feet) COMP
CP3410 MODELED GRAVITY - 979,493.6 (mgal) NAVD 88
CP3410
CP3410 VERT ORDER      - FIRST CLASS II
CP3410
CP3410 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
CP3410 Standards:
CP3410      FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
CP3410      Horiz Ellip              SD_N   SD_E   SD_h      (unitless)
CP3410 -----
CP3410 NETWORK      0.34   0.69              0.14   0.14   0.35      -0.01319669
CP3410 -----
CP3410 Click here for local accuracies and other accuracy information.
CP3410
CP3410
CP3410.The horizontal coordinates were established by GPS observations
CP3410.and adjusted by the National Geodetic Survey in June 2012.
CP3410
CP3410.NAD 83(2011) refers to NAD 83 coordinates where the reference
CP3410.frame has been affixed to the stable North American tectonic plate. See
CP3410.NA2011 for more information.
CP3410
CP3410.The horizontal coordinates are valid at the epoch date displayed above
CP3410.which is a decimal equivalence of Year/Month/Day.
CP3410
CP3410.The orthometric height was determined by differential leveling and
CP3410.adjusted by the NATIONAL GEODETIC SURVEY
CP3410.in July 1994.

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CP3410

CP3410.Significant digits in the geoid height do not necessarily reflect accuracy.  
 CP3410.GEOID12B height accuracy estimate available here.

CP3410

CP3410.Photographs are available for this station.

CP3410

CP3410.The X, Y, and Z were computed from the position and the ellipsoidal ht.

CP3410

CP3410.The Laplace correction was computed from DEFLEC12B derived deflections.

CP3410

CP3410.The ellipsoidal height was determined by GPS observations

CP3410.and is referenced to NAD 83.

CP3410

CP3410.The dynamic height is computed by dividing the NAVD 88

CP3410.geopotential number by the normal gravity value computed on the

CP3410.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

CP3410.degrees latitude (g = 980.6199 gals.).

CP3410

CP3410.The modeled gravity was interpolated from observed gravity values.

CP3410

CP3410. The following values were computed from the NAD 83(2011) position.

CP3410

CP3410;		North	East	Units	Scale	Factor	Converg.
CP3410;SPC LA N	-	207,114.039	1,174,818.334	MT	0.99994370	+0 58	55.3
CP3410;SPC LA N	-	679,506.64	3,854,383.15	sFT	0.99994370	+0 58	55.3
CP3410;SPC MS W	-	316,495.669	670,894.549	MT	0.99996044	-0 09	55.7
CP3410;SPC MS W	-	1,038,369.54	2,201,093.20	sFT	0.99996044	-0 09	55.7
CP3410;UTM 15	-	3,582,169.455	721,838.826	MT	1.00020691	+1 15	43.6

CP3410

CP3410! - Elev Factor x Scale Factor = Combined Factor

CP3410!SPC LA N - 0.99999707 x 0.99994370 = 0.99994077

CP3410!SPC MS W - 0.99999707 x 0.99996044 = 0.99995751

CP3410!UTM 15 - 0.99999707 x 1.00020691 = 1.00020398

CP3410

SUPERSEDED SURVEY CONTROL

CP3410

CP3410	NAD 83(2007)-	32 21 16.06462(N)	090 38 33.21706(W)	AD(2002.00)	A
CP3410	ELLIP H (09/06/11)	18.663 (m)		GP(2002.00)	4 1
CP3410	NAD 83(2007)-	32 21 16.06435(N)	090 38 33.21746(W)	AD(2002.00)	0
CP3410	ELLIP H (02/10/07)	18.706 (m)		GP(2002.00)	
CP3410	ELLIP H (09/12/01)	18.708 (m)		GP( )	3 1
CP3410	NAD 83(1993)-	32 21 16.07905(N)	090 38 33.21212(W)	AD( )	1
CP3410	NAD 83(1993)-	32 21 16.06425(N)	090 38 33.21726(W)	AD( )	B
CP3410	ELLIP H (01/12/94)	18.760 (m)		GP( )	4 1
CP3410	NAVD 88 (03/31/97)	45.24 (m)	148.4 (f)	LEVELING	3
CP3410	NAVD 88 (02/07/96)	45.27 (m)	148.5 (f)	LEVELING	3
CP3410	NAVD 88 (02/05/96)	45.24 (m)	148.4 (f)	LEVELING	3
CP3410	NAVD 88 (01/12/94)	45.3 (m)	GEOID93 model used	GPS OBS	

CP3410

CP3410.Superseded values are not recommended for survey control.

CP3410

CP3410.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

CP3410.See file dsdata.txt to determine how the superseded data were derived.

CP3410

CP3410\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15SYR2183882169(NAD 83)





CP3410 STATION RECOVERY (1994)  
CP3410  
CP3410'RECOVERY NOTE BY NATIONAL OCEAN SERVICE 1994 (RWD)  
CP3410'RECOVERED AS DESCRIBED.  
CP3410  
CP3410 STATION RECOVERY (1996)  
CP3410  
CP3410'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1996 (CSM)  
CP3410'RECOVERED AS DESCRIBED.  
CP3410  
CP3410 STATION RECOVERY (1998)  
CP3410  
CP3410'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1998 (CSM)  
CP3410'THE STATION IS LOCATED ABOUT 20.9 KM (13.00 MI) EAST OF VICKSBURG, 5.6  
CP3410'KM (3.45 MI) WEST-NORTHWEST OF EDWARDS AND 1.04 KM (0.65 MI) SOUTHWEST  
CP3410'OF THE SOUTHWEST END OF THE BRIDGE OVER BIG BLACK RIVER AT THE  
CP3410'HINDS/WARREN COUNTY LINE (MIDDLE 1 OF 3 BRIDGES), ALONG THE NORTH  
CP3410'RIGHT-OF-WAY OF INTERSTATE HIGHWAY 20. OWNERSHIP--MISSISSIPPI STATE  
CP3410'HIGHWAY DEPARTMENT, 412 WOODROW WILSON, JACKSON MS 39216, PHONE  
CP3410'601-944-9098. TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE  
CP3410'HIGHWAY 20 AND STATE HIGHWAY 22 (EXIT 19), NORTH OF EDWARDS, GO WEST  
CP3410'FOR 4.82 KM (3.00 MI) ON INTERSTATE HIGHWAY 20 TO A BILLBOARD AND  
CP3410'STATION ON THE RIGHT. THE STATION IS THE TOP CENTER OF A STAINLESS  
CP3410'STEEL ROD RECESSED 7 CM BELOW GROUND AND DRIVEN TO A DEPTH OF 17.4 M  
CP3410'(57.1 FT) IN A 1-INCH GREASE FILLED SLEEVE 0.9 M (3.0 FT) LONG,  
CP3410'ENCASED IN A 5-INCH PVC PIPE WITH NGS LOGO CAP SURROUNDED BY CONCRETE.  
CP3410'LOCATED 21.6 M (70.9 FT) NORTH OF THE CENTER OF THE WESTBOUND LANES OF  
CP3410'HIGHWAY, 6.2 M (20.3 FT) EAST-SOUTHEAST OF THE SOUTH-SOUTHWEST 1 OF 4  
CP3410'BILLBOARD POLES, 0.7 M (2.3 FT) SOUTH OF THE RIGHT-OF-WAY FENCE AND  
CP3410'WITNESS POST, ABOUT LEVEL WITH THE HIGHWAY AND FLUSH WITH GROUND.  
CP3410  
CP3410 STATION RECOVERY (2000)  
CP3410  
CP3410'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2000  
CP3410'RECOVERED AS DESCRIBED.  
CP3410  
CP3410 STATION RECOVERY (2000)  
CP3410  
CP3410'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2000  
CP3410'RECOVERED AS DESCRIBED.  
CP3410  
CP3410 STATION RECOVERY (2008)  
CP3410  
CP3410'RECOVERY NOTE BY MS DEPT TRANS 2008 (JL)  
CP3410'RECOVERED AS DESCRIBED WITH THE FOLLOWING ADDENDUMS, THE MARK IS 47.9  
CP3410'FT (14.6 M) NORTH OF THE EDGE OF PAVEMENT OF THE WEST BOUND LANE OF  
CP3410'I20.



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 18, 2016
DL9111 *****
DL9111 DESIGNATION - H 376
DL9111 PID - DL9111
DL9111 STATE/COUNTY- MS/FRANKLIN
DL9111 COUNTRY - US
DL9111 USGS QUAD - ROXIE (1988)
DL9111
DL9111 *CURRENT SURVEY CONTROL
DL9111
DL9111* NAD 83(2011) POSITION- 31 30 51.03252(N) 091 04 56.74269(W) ADJUSTED
DL9111* NAD 83(2011) ELLIP HT- 61.999 (meters) (06/27/12) ADJUSTED
DL9111* NAD 83(2011) EPOCH - 2010.00
DL9111* NAVD 88 ORTHO HEIGHT - 88.215 (meters) 289.42 (feet) ADJUSTED
DL9111* NAVD 88 EPOCH - 2009.55
DL9111 **This station is located in a suspected subsidence area (see below).
DL9111
DL9111 NAD 83(2011) X - -102,812.587 (meters) COMP
DL9111 NAD 83(2011) Y - -5,441,492.318 (meters) COMP
DL9111 NAD 83(2011) Z - 3,314,659.483 (meters) COMP
DL9111 LAPLACE CORR - 0.66 (seconds) DEFLEC12B
DL9111 GEOID HEIGHT - -26.216 (meters) GEOID12B
DL9111 DYNAMIC HEIGHT - 88.108 (meters) 289.07 (feet) COMP
DL9111 MODELED GRAVITY - 979,419.2 (mgal) NAVD 88
DL9111
DL9111 VERT ORDER - FIRST CLASS II
DL9111
DL9111 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DL9111 Standards:
DL9111 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
DL9111 Horiz Ellip SD_N SD_E SD_h (unitless)
DL9111 -----
DL9111 NETWORK 1.91 2.53 0.80 0.76 1.29 0.13378368
DL9111 -----
DL9111 Click here for local accuracies and other accuracy information.
DL9111
DL9111
DL9111.The horizontal coordinates were established by GPS observations
DL9111.and adjusted by the National Geodetic Survey in June 2012.
DL9111
DL9111.NAD 83(2011) refers to NAD 83 coordinates where the reference
DL9111.frame has been affixed to the stable North American tectonic plate. See
DL9111.NA2011 for more information.
DL9111
DL9111.The horizontal coordinates are valid at the epoch date displayed above
DL9111.which is a decimal equivalence of Year/Month/Day.
DL9111
DL9111 ** This station is in an area of known vertical motion. Due to the
DL9111 ** variability of land subsidence, uplift, and crustal motion, NGS has,

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DL9111 \*\* determined the orthometric heights for marks in these suspect  
DL9111 \*\* subsidence areas should be considered valid only at the epoch date  
DL9111 \*\* associated with the orthometric height. These heights must always  
DL9111 \*\* be validated when used as control. All previously superseded  
DL9111 \*\* orthometric heights are now considered suspect and are available  
DL9111 \*\* in the superseded section. NGS does not recommend using suspect  
DL9111 \*\* or superseded heights as control.  
DL9111  
DL9111.The orthometric height was determined by differential leveling and  
DL9111.adjusted by the NATIONAL GEODETIC SURVEY  
DL9111.in July 2012.  
DL9111  
DL9111.Significant digits in the geoid height do not necessarily reflect accuracy.  
DL9111.GEOID12B height accuracy estimate available here.  
DL9111  
DL9111.The X, Y, and Z were computed from the position and the ellipsoidal ht.  
DL9111  
DL9111.The Laplace correction was computed from DEFLEC12B derived deflections.  
DL9111  
DL9111.The ellipsoidal height was determined by GPS observations  
DL9111.and is referenced to NAD 83.  
DL9111  
DL9111.The dynamic height is computed by dividing the NAVD 88  
DL9111.geopotential number by the normal gravity value computed on the  
DL9111.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45  
DL9111.degrees latitude (g = 980.6199 gals.).  
DL9111  
DL9111.The modeled gravity was interpolated from observed gravity values.  
DL9111  
DL9111. The following values were computed from the NAD 83(2011) position.  
DL9111  
DL9111;  

	North	East	Units	Scale Factor	Converg.
DL9111;SPC MS W	- 223,525.683	628,847.588	MT	1.00001242	-0 23 29.7
DL9111;SPC MS W	- 733,350.51	2,063,144.13	sFT	1.00001242	-0 23 29.7
DL9111;UTM 15	- 3,488,180.895	682,088.928	MT	1.00000896	+1 00 09.4

DL9111  
DL9111!  

DL9111!SPC MS W	- 0.99999026	x	1.00001242	=	1.00000268
DL9111!UTM 15	- 0.99999026	x	1.00000896	=	0.99999922

DL9111  
DL9111  

SUPERSEDED SURVEY CONTROL

DL9111  
DL9111  
DL9111 NAD 83(2007)- 31 30 51.03233(N) 091 04 56.74304(W) AD(2002.00) A  
DL9111 ELLIP H (09/06/11) 61.986 (m) GP(2002.00) 4 1  
DL9111  
DL9111.Superseded values are not recommended for survey control.  
DL9111  
DL9111.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
DL9111.See file dsdata.txt to determine how the superseded data were derived.  
DL9111  
DL9111\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15RXQ8208888180(NAD 83)  
DL9111  
DL9111\_MARKER: DD = SURVEY DISK  
DL9111\_SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE  
DL9111\_SP\_SET: BOX CULVERT HEADWALL



DL9111\_STAMPING: H 376 2009  
DL9111\_MARK LOGO: MSDOT  
DL9111\_MAGNETIC: N = NO MAGNETIC MATERIAL  
DL9111\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO  
DL9111+STABILITY: SURFACE MOTION  
DL9111\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
DL9111+SATELLITE: SATELLITE OBSERVATIONS - May 06, 2009

DL9111  
DL9111 HISTORY - Date Condition Report By  
DL9111 HISTORY - 20090506 MONUMENTED EMC

DL9111  
DL9111 STATION DESCRIPTION

DL9111 'DESCRIBED BY EMC ENGINEERING SERV INC 2009  
DL9111 'THE STATION IS LOCATED IN ROXIE, MISSISSIPPI, ABOUT 167.0 MI (268.7  
DL9111 'KM) WEST OF YELLOW PINE, 166.5 MI (267.9 KM) WEST OF MELVIN AND 165.6  
DL9111 'MI (266.5 KM) WEST OF ISNEY. OWNERSHIP--MISSISSIPPI DEPARTMENT OF  
DL9111 'TRANSPORTATION.  
DL9111 '  
DL9111 'THE MARK IS IN THE SOUTHWEST CORNER OF THE HEADWALL IN THE SOUTHWEST  
DL9111 'CORNER OF THE INTERSECTION OF HIGHWAY 33 AND HIGHWAY 84.  
DL9111 '  
DL9111 'IT IS 61.8 FT (18.8 M) SOUTH-SOUTHWEST OF THE CENTERLINE OF EAST BOUND  
DL9111 'LANES OF HIGHWAY 84, 59.2 FT (18.0 M) NORTHWEST OF HWY33/HWY84 SIGN,  
DL9111 '37.0 FT (11.3 M) SOUTHWEST OF TOP OF CONCRETE SLOPE DRAIN, 9.7 FT (3.0  
DL9111 'M) SOUTHEAST OF BOTTOM OF CONCRETE SLOPE DRAIN AND 2.5 FT (0.8 M)  
DL9111 'NORTHWEST OF THE SOUTHEAST CORNER HEADWALL.



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 20, 2016
CP2287 *****
CP2287 HT_MOD      - This is a Height Modernization Survey Station.
CP2287 DESIGNATION - L 24 49 USE
CP2287 PID        - CP2287
CP2287 STATE/COUNTY- LA/TENSAS
CP2287 COUNTRY    - US
CP2287 USGS QUAD  - NEWELLTON (1994)
CP2287
CP2287                      *CURRENT SURVEY CONTROL
CP2287
CP2287* NAD 83(2011) POSITION- 32 05 14.75271(N) 091 10 36.49191(W) ADJUSTED
CP2287* NAD 83(2011) ELLIP HT- -2.210 (meters) (06/27/12) ADJUSTED
CP2287* NAD 83(2011) EPOCH - 2010.00
CP2287* NAVD 88 ORTHO HEIGHT - 24.13 (meters) 79.2 (feet) GPS OBS
CP2287
CP2287 NAVD 88 orthometric height was determined with geoid model GEOID03
CP2287 GEOID HEIGHT - -26.339 (meters) GEOID03
CP2287 GEOID HEIGHT - -26.344 (meters) GEOID12B
CP2287 NAD 83(2011) X - -111,086.342 (meters) COMP
CP2287 NAD 83(2011) Y - -5,407,771.638 (meters) COMP
CP2287 NAD 83(2011) Z - 3,368,648.202 (meters) COMP
CP2287 LAPLACE CORR - -0.29 (seconds) DEFLEC12B
CP2287
CP2287 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
CP2287 Standards:
CP2287      FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
CP2287      Horiz Ellip              SD_N   SD_E   SD_h      (unitless)
CP2287 -----
CP2287 NETWORK      0.38   0.59              0.16   0.15   0.30      0.03686380
CP2287 -----
CP2287 Click here for local accuracies and other accuracy information.
CP2287
CP2287
CP2287.The horizontal coordinates were established by GPS observations
CP2287.and adjusted by the National Geodetic Survey in June 2012.
CP2287
CP2287.NAD 83(2011) refers to NAD 83 coordinates where the reference
CP2287.frame has been affixed to the stable North American tectonic plate. See
CP2287.NA2011 for more information.
CP2287
CP2287.The horizontal coordinates are valid at the epoch date displayed above
CP2287.which is a decimal equivalence of Year/Month/Day.
CP2287
CP2287.The orthometric height was determined by GPS observations and a
CP2287.high-resolution geoid model using precise GPS observation and
CP2287.processing techniques.
CP2287
CP2287.Significant digits in the geoid height do not necessarily reflect accuracy.

```



CP2287.GEOID12B height accuracy estimate available here.

CP2287

CP2287.The X, Y, and Z were computed from the position and the ellipsoidal ht.

CP2287

CP2287.The Laplace correction was computed from DEFLEC12B derived deflections.

CP2287

CP2287.The ellipsoidal height was determined by GPS observations

CP2287.and is referenced to NAD 83.

CP2287

CP2287. The following values were computed from the NAD 83(2011) position.

CP2287

CP2287;		North	East	Units	Scale Factor	Converg.
CP2287;SPC LA N	-	176,769.191	1,124,901.012	MT	0.99991911	+0 41 58.5
CP2287;SPC LA N	-	579,950.25	3,690,612.74	sFT	0.99991911	+0 41 58.5
CP2287;UTM 15	-	3,551,581.378	672,059.803	MT	0.99996510	+0 58 07.5
CP2287!	-	Elev Factor	x	Scale Factor	=	Combined Factor
CP2287!SPC LA N	-	1.00000035	x	0.99991911	=	0.99991946
CP2287!UTM 15	-	1.00000035	x	0.99996510	=	0.99996545

CP2287

CP2287	PID	Reference Object	Distance	Geod. Az
CP2287				dddmss.s
CP2287	DP1639	MRL R 37	37.912 METERS	13100

CP2287

CP2287 SUPERSEDED SURVEY CONTROL

CP2287

CP2287	NAD 83(2007)-	32 05 14.75256(N)	091 10 36.49255(W)	AD(2002.00)	0
CP2287	ELLIP H (02/10/07)	-2.201 (m)		GP(2002.00)	
CP2287	NAD 83(1992)-	32 05 14.75239(N)	091 10 36.49241(W)	AD( )	B
CP2287	ELLIP H (06/28/04)	-2.207 (m)		GP( )	4 2
CP2287	NAVD 88 (02/14/94)	24.118 (m)	79.13 (f)	ADJUSTED	1 2
CP2287	NAVD 88 (06/15/91)	24.124 (m)	79.15 (f)	SUPERSEDED	1 2
CP2287	NGVD 29 (??/??/??)	24.140 (m)	79.20 (f)	ADJUSTED	1 2

CP2287

CP2287.Superseded values are not recommended for survey control.

CP2287

CP2287.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

CP2287.See file dsdata.txt to determine how the superseded data were derived.

CP2287

CP2287\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15SXR7205951581(NAD 83)

CP2287

CP2287\_MARKER: DD = SURVEY DISK

CP2287\_SETTING: 46 = COPPER-CLAD STEEL ROD W/O SLEEVE (10 FT.+)

CP2287\_STAMPING: L-24-49 1978

CP2287\_MARK LOGO: USACE

CP2287\_PROJECTION: RECESSED 5 CENTIMETERS

CP2287\_MAGNETIC: N = NO MAGNETIC MATERIAL

CP2287\_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

CP2287\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

CP2287+SATELLITE: SATELLITE OBSERVATIONS - January 07, 2013

CP2287\_ROD/PIPE-DEPTH: 28.7 meters

CP2287

CP2287	HISTORY	- Date	Condition	Report By



CP2287	HISTORY	- 1978	MONUMENTED	USE
CP2287	HISTORY	- 1979	GOOD	NGS
CP2287	HISTORY	- 2003	GOOD	PYBURN
CP2287	HISTORY	- 20130107	GOOD	JMSM

CP2287

CP2287

CP2287

STATION DESCRIPTION

CP2287'DESCRIBED BY NATIONAL GEODETIC SURVEY 1979

CP2287'20.2 MI NE FROM ST JOSEPH.

CP2287'20.2 MILES NORTH-NORTHEAST ALONG THE GRAVEL ROAD ON TOP THE LEVEE FROM

CP2287'THE JUNCTION OF WASHINGTON STREET IN ST. JOSEPH, ON THE OUTSIDE OF

CP2287'A CURVE, AT LEVEE STATION MARKER 4950, 135 FEET WEST OF THE CENTER OF

CP2287'THE LEVEE ROAD, 105 FEET WEST OF THE LEVEE MARKER, 2 FEET EAST OF A

CP2287'FENCE LINE, AND SURROUNDED BY 4 CREOSOTE POSTS PAINTED YELLOW.

CP2287'THE MARK IS 20 FT BELOW LEVEE ROAD.

CP2287

CP2287

STATION RECOVERY (2003)

CP2287

CP2287'RECOVERY NOTE BY PYBURN AND ODOM, INCORPORATED 2003 (RC)

CP2287'RECOVERED AS DESCRIBED IPYBURN

CP2287

CP2287

STATION RECOVERY (2013)

CP2287

CP2287'RECOVERY NOTE BY JOHNSON-MCADAMS SURVEYING AND MAPPING 2013 (HM)

CP2287'RECOVERED AS DESCRIBED IN GOOD CONDITION.



# The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 16, 2016
DN4037 *****
DN4037 HT_MOD      - This is a Height Modernization Survey Station.
DN4037 DESIGNATION - LIBE
DN4037 PID        - DN4037
DN4037 STATE/COUNTY- MS/AMITE
DN4037 COUNTRY    - US
DN4037 USGS QUAD  - LIBERTY (1988)
DN4037
DN4037                                *CURRENT SURVEY CONTROL
DN4037
DN4037* NAD 83(2011) POSITION- 31 09 47.03340(N) 090 47 18.46595(W) ADJUSTED
DN4037* NAD 83(2011) ELLIP HT- 95.762 (meters) (06/27/12) ADJUSTED
DN4037* NAD 83(2011) EPOCH - 2010.00
DN4037* NAVD 88 ORTHO HEIGHT - 122.44 (meters) 401.7 (feet) GPS OBS
DN4037* NAVD 88 EPOCH - 2009.55
DN4037 **This station is located in a suspected subsidence area (see below).
DN4037
DN4037 NAVD 88 orthometric height was determined with geoid model GEOID12A
DN4037 GEOID HEIGHT - -26.665 (meters) GEOID12A
DN4037 GEOID HEIGHT - -26.665 (meters) GEOID12B
DN4037 NAD 83(2011) X - -75,171.869 (meters) COMP
DN4037 NAD 83(2011) Y - -5,462,222.380 (meters) COMP
DN4037 NAD 83(2011) Z - 3,281,426.647 (meters) COMP
DN4037 LAPLACE CORR - 0.22 (seconds) DEFLEC12B
DN4037
DN4037 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DN4037 Standards:
DN4037 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
DN4037 Horiz Ellip SD_N SD_E SD_h (unitless)
DN4037 -----
DN4037 NETWORK 0.77 1.20 0.34 0.28 0.61 0.10536790
DN4037 -----
DN4037 Click here for local accuracies and other accuracy information.
DN4037
DN4037
DN4037.The horizontal coordinates were established by GPS observations
DN4037.and adjusted by the National Geodetic Survey in June 2012.
DN4037
DN4037.NAD 83(2011) refers to NAD 83 coordinates where the reference
DN4037.frame has been affixed to the stable North American tectonic plate. See
DN4037.NA2011 for more information.
DN4037
DN4037.The horizontal coordinates are valid at the epoch date displayed above
DN4037.which is a decimal equivalence of Year/Month/Day.
DN4037
DN4037 ** This station is in an area of known vertical motion. Due to the
DN4037 ** variability of land subsidence, uplift, and crustal motion, NGS has,
DN4037 ** determined the orthometric heights for marks in these suspect

```



WOOLPERT

DN4037 \*\* subsidence areas should be considered valid only at the epoch date
DN4037 \*\* associated with the orthometric height. These heights must always
DN4037 \*\* be validated when used as control. All previously superseded
DN4037 \*\* orthometric heights are now considered suspect and are available
DN4037 \*\* in the superseded section. NGS does not recommend using suspect
DN4037 \*\* or superseded heights as control.

DN4037

DN4037.The orthometric height was determined by GPS observations and a
DN4037.high-resolution geoid model using precise GPS observation and
DN4037.processing techniques.

DN4037

DN4037.Significant digits in the geoid height do not necessarily reflect accuracy.
DN4037.GEOID12B height accuracy estimate available here.

DN4037

DN4037.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DN4037

DN4037.The Laplace correction was computed from DEFLEC12B derived deflections.
DN4037

DN4037.The ellipsoidal height was determined by GPS observations
DN4037.and is referenced to NAD 83.

DN4037

DN4037. The following values were computed from the NAD 83(2011) position.

DN4037

Table with columns: North, East, Units, Scale Factor, Convergency. Rows include SPC MS W, UTM 15, and conversion factors.

DN4037

SUPERSEDED SURVEY CONTROL

DN4037

DN4037 NAD 83(2007)- 31 09 47.03327(N) 090 47 18.46645(W) AD(2002.00) A
DN4037 ELLIP H (09/06/11) 95.750 (m) GP(2002.00) 4 1

DN4037

DN4037.Superseded values are not recommended for survey control.

DN4037

DN4037.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DN4037.See file dsdata.txt to determine how the superseded data were derived.

DN4037

DN4037\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15RYQ1079149779(NAD 83)

DN4037

- DN4037\_MARKER: DD = SURVEY DISK
DN4037\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DN4037\_STAMPING: LIBE 2008
DN4037\_MARK LOGO: MSDOT
DN4037\_PROJECTION: FLUSH
DN4037\_MAGNETIC: N = NO MAGNETIC MATERIAL
DN4037\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DN4037+STABILITY: SURFACE MOTION
DN4037\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DN4037+SATELLITE: SATELLITE OBSERVATIONS - December 13, 2008
DN4037



WOOLPERT

DN4037	HISTORY	- Date	Condition	Report By
DN4037	HISTORY	- 20081213	MONUMENTED	MSDOT

DN4037

DN4037

STATION DESCRIPTION

DN4037

DN4037'DESCRIBED BY MS DEPT TRANS 2008

DN4037'THE STATION IS LOCATED IN LIBERTY, MS. THE STATION IS 17.6 MI (28.3  
DN4037'KM) SOUTHEAST OF CROSBY, 13.3 MI (21.4 KM) EAST-SOUTHEAST OF GLOSTER,  
DN4037'AND 15.85 MI (25.5 KM) EAST-NORTHEAST OF CENTREVILLE.

DN4037'

DN4037'TO REACH FROM THE INTERSECTION OF MS HIGHWAY 24 AND MS HIGHWAY 584 GO  
DN4037'EAST FOR 1.2 MI (1.9 KM) TO THE INTERSECTION OF HIGHWAY 24 AND BLALOCK  
DN4037'CIRCLE. TURN LEFT ON BLALOCK CIRCLE THEN GO 0.1 MI (0.2 KM) TO THE  
DN4037'STATION ON THE LEFT.

DN4037'

DN4037'THE MARK IS 55 FT (16.8 M) WEST OF A PAVED ROAD, 34 FT (10.4 M) NORTH  
DN4037'OF A GRAVEL DRIVE, 38 FT (11.6 M) SOUTH OF A GRAVEL DRIVE, AND 1 FT  
DN4037'(0.3 M) SOUTH OF A FIBERGLASS WITNESS POST.



# The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 20, 2016
DF7992 *****
DF7992  CORS          -   This is a GPS Continuously Operating Reference Station.
DF7992  DESIGNATION -   LSU-ALEXANDRIA CORS ARP
DF7992  CORS_ID      -   LSUA
DF7992  PID          -   DF7992
DF7992  STATE/COUNTY-   LA/RAPIDES
DF7992  COUNTRY      -   US
DF7992  USGS QUAD    -   WOODWORTH EAST (1992)
DF7992
DF7992                                     *CURRENT SURVEY CONTROL
DF7992
DF7992*  NAD 83(2011) POSITION- 31 10 43.57804(N) 092 24 44.33510(W)  ADJUSTED
DF7992*  NAD 83(2011) ELLIP HT-      6.026 (meters)          (08/??/11)  ADJUSTED
DF7992*  NAD 83(2011) EPOCH   -   2010.00
DF7992*  NAVD 88 ORTHO HEIGHT -          *(meters)              *(feet)
DF7992
DF7992  NAD 83(2011) X   -   -229,887.762 (meters)          COMP
DF7992  NAD 83(2011) Y   -   -5,456,921.286 (meters)        COMP
DF7992  NAD 83(2011) Z   -   3,282,870.249 (meters)        COMP
DF7992  GEOID HEIGHT    -          -26.706 (meters)          GEOID12B
DF7992
DF7992  Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DF7992  Standards:
DF7992          FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
DF7992          Horiz Ellip              SD_N   SD_E   SD_h          (unitless)
DF7992  -----
DF7992  NETWORK      1.91   6.83              0.80   0.77   3.48          0.01462671
DF7992  -----
DF7992  Click here for local accuracies and other accuracy information.
DF7992
DF7992
DF7992.The coordinates were established by GPS observations
DF7992.and adjusted by the National Geodetic Survey in August 2011.
DF7992
DF7992.NAD 83(2011) refers to NAD 83 coordinates where the reference
DF7992.frame has been affixed to the stable North American Tectonic Plate.
DF7992
DF7992.The coordinates are valid at the epoch date displayed above
DF7992.which is a decimal equivalence of Year/Month/Day.
DF7992
DF7992.Significant digits in the geoid height do not necessarily reflect accuracy.
DF7992.GEOID12B height accuracy estimate available here.
DF7992
DF7992.The PID for the CORS L1 Phase Center is DN4598.
DF7992
DF7992.The XYZ, and position/ellipsoidal ht. are equivalent.
DF7992
DF7992.The ellipsoidal height was determined by GPS observations

```



DF7992.and is referenced to NAD 83.

DF7992

DF7992. The following values were computed from the NAD 83(2011) position.

DF7992

DF7992;		North	East	Units	Scale Factor	Converg.
DF7992;SPC LA N	-	75,263.796	1,008,358.575	MT	0.99999728	+0 02 46.9
DF7992;SPC LA N	-	246,927.97	3,308,256.42	sFT	0.99999728	+0 02 46.9
DF7992;UTM 15	-	3,449,563.287	555,999.465	MT	0.99963868	+0 18 15.3

DF7992

DF7992!	-	Elev Factor	x	Scale Factor	=	Combined Factor
DF7992!SPC LA N	-	0.99999905	x	0.99999728	=	0.99999633
DF7992!UTM 15	-	0.99999905	x	0.99963868	=	0.99963773

DF7992

DF7992 SUPERSEDED SURVEY CONTROL

DF7992

DF7992 NAD 83(CORS)- 31 10 43.57792(N) 092 24 44.33576(W) AD(2002.00) c  
DF7992 ELLIP H (09/??/03) 6.030 (m) GP(2002.00) c c

DF7992

DF7992.Superseded values are not recommended for survey control.

DF7992

DF7992.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

DF7992.See file dsdata.txt to determine how the superseded data were derived.

DF7992

DF7992\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15RWQ5599949563(NAD 83)

DF7992

DF7992\_MARKER: STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA

DF7992

DF7992 STATION DESCRIPTION

DF7992

DF7992'DESCRIBED BY NATIONAL GEODETIC SURVEY 2011

DF7992'STATION IS A GPS CORS. LATEST INFORMATION INCLUDING POSITIONS AND

DF7992'VELOCITIES ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE

DF7992'BY ANONYMOUS FTP OR THE WORLDWIDE WEB.

DF7992' ftp://cors.ngs.noaa.gov/cors/README.txt

DF7992' ftp://cors.ngs.noaa.gov/cors/coord/coord\_08

DF7992' ftp://cors.ngs.noaa.gov/cors/station\_log

DF7992' http://geodesy.noaa.gov/CORS



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 16, 2016
BW0421 *****
BW0421 DESIGNATION -  MEADVILLE
BW0421 PID          -  BW0421
BW0421 STATE/COUNTY-  MS/FRANKLIN
BW0421 COUNTRY      -  US
BW0421 USGS QUAD    -  MEADVILLE (1988)
BW0421
BW0421                      *CURRENT SURVEY CONTROL
BW0421
BW0421* NAD 83(2011) POSITION- 31 28 19.29964(N) 090 53 13.87260(W)  ADJUSTED
BW0421* NAD 83(2011) ELLIP HT- 84.227 (meters) (06/27/12)  ADJUSTED
BW0421* NAD 83(2011) EPOCH   - 2010.00
BW0421* NAVD 88 ORTHO HEIGHT - 110.398 (meters) 362.20 (feet) ADJUSTED
BW0421* NAVD 88 EPOCH       - 2009.55
BW0421 **This station is located in a suspected subsidence area (see below).
BW0421
BW0421 NAD 83(2011) X - -84,307.635 (meters) COMP
BW0421 NAD 83(2011) Y - -5,444,271.063 (meters) COMP
BW0421 NAD 83(2011) Z - 3,310,686.122 (meters) COMP
BW0421 LAPLACE CORR - 0.86 (seconds) DEFLEC12B
BW0421 GEOID HEIGHT - -26.166 (meters) GEOID12B
BW0421 DYNAMIC HEIGHT - 110.263 (meters) 361.75 (feet) COMP
BW0421 MODELED GRAVITY - 979,415.2 (mgal) NAVD 88
BW0421
BW0421 VERT ORDER - FIRST CLASS II
BW0421
BW0421 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
BW0421 Standards:
BW0421 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
BW0421 Horiz Ellip SD_N SD_E SD_h (unitless)
BW0421 -----
BW0421 NETWORK 1.02 1.23 0.41 0.42 0.63 0.13101401
BW0421 -----
BW0421 Click here for local accuracies and other accuracy information.
BW0421
BW0421
BW0421.The horizontal coordinates were established by GPS observations
BW0421.and adjusted by the National Geodetic Survey in June 2012.
BW0421
BW0421.NAD 83(2011) refers to NAD 83 coordinates where the reference
BW0421.frame has been affixed to the stable North American tectonic plate. See
BW0421.NA2011 for more information.
BW0421
BW0421.The horizontal coordinates are valid at the epoch date displayed above
BW0421.which is a decimal equivalence of Year/Month/Day.
BW0421
BW0421 ** This station is in an area of known vertical motion. Due to the
BW0421 ** variability of land subsidence, uplift, and crustal motion, NGS has,

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BW0421  
 BW0421 NAD 83(2007)- 31 28 19.29942(N) 090 53 13.87302(W) AD(2002.00) A  
 BW0421 ELLIP H (09/06/11) 84.214 (m) GP(2002.00) 4 1  
 BW0421 NAD 83(1993)- 31 28 19.29773(N) 090 53 13.87169(W) AD( ) 2  
 BW0421 NAD 83(1986)- 31 28 19.31295(N) 090 53 13.86724(W) AD( ) 2  
 BW0421 NAD 27 - 31 28 18.70600(N) 090 53 13.50600(W) AD( ) 2  
 BW0421 NAVD 88 (02/14/94) 110.433 (m) 362.31 (f) SUPERSEDED 2 0  
 BW0421 NAVD 88 (06/15/91) 110.464 (m) 362.41 (f) SUPERSEDED 2 0  
 BW0421 NGVD 29 (??/??/??) 110.444 (m) 362.35 (f) ADJUSTED 2 0

BW0421  
 BW0421.Superseded values are not recommended for survey control.

BW0421  
 BW0421.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
 BW0421.See file dsdata.txt to determine how the superseded data were derived.

BW0421  
 BW0421\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15RYQ0072283849(NAD 83)

BW0421  
 BW0421\_MARKER: DS = TRIANGULATION STATION DISK  
 BW0421\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT  
 BW0421\_STAMPING: MEADVILLE 1949  
 BW0421\_MARK LOGO: CGS  
 BW0421\_PROJECTION: FLUSH  
 BW0421\_MAGNETIC: N = NO MAGNETIC MATERIAL  
 BW0421\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO  
 BW0421+STABILITY: SURFACE MOTION  
 BW0421\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
 BW0421+SATELLITE: SATELLITE OBSERVATIONS - March 20, 2011

BW0421

HISTORY	- Date	Condition	Report By
BW0421	HISTORY - 1949	MONUMENTED	CGS
BW0421	HISTORY - 1956	GOOD	CGS
BW0421	HISTORY - 1959	GOOD	USGS
BW0421	HISTORY - 1968	GOOD	MSHD
BW0421	HISTORY - 1969	GOOD	MSHD
BW0421	HISTORY - 1969	GOOD	MSHD
BW0421	HISTORY - 20010125	GOOD	NGS
BW0421	HISTORY - 20081021	GOOD	MSDOT
BW0421	HISTORY - 20090129	GOOD	MAPTEC
BW0421	HISTORY - 20110320	GOOD	MSSU

BW0421  
 BW0421  
 BW0421 STATION DESCRIPTION  
 BW0421  
 BW0421'DESCRIBED BY COAST AND GEODETIC SURVEY 1949 (MJT)  
 BW0421'THE STATION IS LOCATED ABOUT 0.4 MILE EAST OF THE FRANKLIN  
 BW0421'COUNTY COURTHOUSE IN MEADVILLE IN A TRIANGULAR PARKWAY FORMED AT  
 BW0421'THE JUNCTION OF U.S. HIGHWAY 84 AND A GRAVELED ROAD LEADING  
 BW0421'SOUTHEAST TO THE VILLAGE OF SUMMIT. THE MARK IS 66 FEET EAST  
 BW0421'OF THE APPROXIMATE CENTERLINE OF A MACADAM ROAD, 56 FEET WEST  
 BW0421'OF THE APPROXIMATE CENTERLINE OF A MACADAM ROAD, 51 FEET  
 BW0421'SOUTH OF THE CENTERLINE OF U.S. HIGHWAY 84, AND 20 FEET  
 BW0421'SOUTHEAST OF A MARBLE MONUMENT.  
 BW0421'  
 BW0421'TO REACH THE STATION FROM THE COURTHOUSE IN MEADVILLE, GO  
 BW0421'EASTERLY ON U.S. HIGHWAY 84 FOR 0.35 MILE TO THE STATION ON THE  
 BW0421'RIGHT.





BW0421'OF MARBLE MEMORIAL HIGHWAY MONUMENT, IN CONCRETE POST FLUSH  
BW0421'WITH GROUND. A STANDARD U.S.C. AND G.S. TRIANGULATION STATION  
BW0421'DISK STAMPED MEADVILLE 1949.  
BW0421  
BW0421 STATION RECOVERY (1968)  
BW0421  
BW0421'RECOVERY NOTE BY MISSISSIPPI STATE HIGHWAY DEPARTMENT 1968 (HBT)  
BW0421'THE STATION WAS VISITED 2-19-68 AND THE STATION MARK, REFERENCE  
BW0421'MARK, NO. 1, NO. 2 AND THE AZIMUTH MARK WERE FOUND IN GOOD  
BW0421'CONDITION.  
BW0421'  
BW0421'THE STATION IS LOCATED APPROXIMATELY 0.4 MILE EAST OF THE FRANKLIN  
BW0421'COUNTY COURTHOUSE IN A TRIANGULAR PLOT OF GROUND FORMED BY  
BW0421'U.S. HIGHWAY 84 AND A BLACKTOP ROAD, IN THE SOUTHWEST 1/4 OF  
BW0421'SECTION 30, T 6N, R 3E. IT IS 51 FEET SOUTH OF U.S. HIGHWAY  
BW0421'84, 20 FEET SOUTHEAST OF A MARBLE MONUMENT, 66 FEET EAST OF  
BW0421'THE CENTER OF A BLACKTOP ROAD AND 56 FEET WEST OF THE CENTER OF  
BW0421'A BLACKTOP ROAD IN A TRIANGLE, 33.5 FEET NORTH OF A POWER LINE  
BW0421'SERVICE POLE AND 1 FOOT SOUTH OF A METAL WITNESS POST.  
BW0421'  
BW0421'IT IS A STANDARD TRIANGULATION DISK, STAMPED MEADVILLE 1949  
BW0421'FLUSH WITH THE GROUND.  
BW0421'  
BW0421'REFERENCE MARK NO. 1 IS 92.77 FEET SOUTH SOUTHEAST OF THE  
BW0421'STATION. IT IS 121 FEET SOUTH OF THE CENTER OF HIGHWAY 84, 36  
BW0421'FEET EAST OF THE CENTER OF A BLACKTOP ROAD, 6.5 FEET NORTH OF  
BW0421'A POWER LINE POLE AND 1 FOOT SOUTH OF A METAL WITNESS POST.  
BW0421'IT IS A STANDARD DISK, STAMPED MEADVILLE NO 1 1949 PROJECTING 2  
BW0421'INCHES.  
BW0421'  
BW0421'REFERENCE MARK NO. 2 IS 101.84 FEET WEST OF THE STATION. IT  
BW0421'IS 100 FEET SOUTH OF THE CENTER OF U.S. HIGHWAY 84, 39 FEET  
BW0421'WEST OF THE CENTER OF A BLACKTOP ROAD, 71 FEET SOUTH OF A  
BW0421'POWER LINE POLE WITH A STREET LIGHT, 69 FEET NORTH OF A POWER  
BW0421'LINE POLE WITH A TRANSFORMER, AND 1 FOOT WEST OF A METAL WITNESS  
BW0421'POST. IT IS A STANDARD REFERENCE MARK DISK, STAMPED MEADVILLE  
BW0421'NO 2 1949 PROJECTING 4 INCHES.  
BW0421'  
BW0421'THE DISTANCE BETWEEN REFERENCE MARK NO. 1 AND NO. 2 IS 159.60  
BW0421'FEET.  
BW0421'  
BW0421'THE AZIMUTH MARK IS 0.15 MILE SOUTH OF THE STATION. IT IS 39  
BW0421'FEET WEST OF THE CENTER OF A BLACKTOP ROAD, 28 FEET NORTHWEST  
BW0421'OF THE NORTHWEST CORNER OF A HOUSE, 1 FOOT EAST OF A FENCE, 45  
BW0421'FEET NORTHWEST OF A POWER LINE POLE WITH A STREET LIGHT AND  
BW0421'TRANSFORMER AND 1 FOOT SOUTH OF A METAL WITNESS POST. IT IS  
BW0421'A STANDARD AZIMUTH MARK DISK, STAMPED MEADVILLE 1949 PROJECTING  
BW0421'4 INCHES.  
BW0421'  
BW0421'TO REACH THE STATION FROM THE COURTHOUSE IN MEADVILLE GO EAST  
BW0421'ON U.S. HIGHWAY 84 FOR 0.4 MILE TO A SIDE ROAD AND THE STATION  
BW0421'ON THE RIGHT AS DESCRIBED. TO REACH THE AZIMUTH TURN RIGHT  
BW0421'(SOUTHEAST) AND CONTINUE ON MISSISSIPPI HIGHWAY 556 FOR 0.15  
BW0421'MILE TO A HOUSE AND THE MARK ON THE RIGHT AS DESCRIBED.  
BW0421'





BW0421 'THE JUNCTION OF MISSISSIPPI HIGHWAY 556 AND THE MARK ON THE  
BW0421 'RIGHT. TO REACH THE AZIMUTH, TURN RIGHT (SOUTHEAST) AND  
BW0421 'CONTINUE ON MISSISSIPPI HIGHWAY 556 FOR 0.15 MILE TO A HOUSE  
BW0421 'AND THE MARK ON THE RIGHT AS DESCRIBED.

BW0421 '

BW0421 'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN--0.4 MILE  
BW0421 'EAST OF MEADVILLE

BW0421

BW0421

STATION RECOVERY (1969)

BW0421

BW0421 'RECOVERY NOTE BY MISSISSIPPI STATE HIGHWAY DEPARTMENT 1969

BW0421 '0.2 MI E FROM MEADVILLE.

BW0421 'THE MARK IS LOCATED 0.2 MILE EAST OF MEADVILLE IN A TRIANGULAR PLOT OF  
BW0421 'GROUND FORMED BY THE JUNCTION OF MISSISSIPPI HIGHWAY 556 WITH U.S.  
BW0421 'HIGHWAYS 98 AND 84 IN THE NORTHWEST 1/4 OF SECTION 30, T 6N, R 3E. IT  
BW0421 'IS 51 FEET SOUTH OF THE CENTER OF U.S. HIGHWAY 84, 66 FEET EAST OF THE  
BW0421 'CENTER OF A BLACKTOP ROAD, 56 FEET WEST OF THE CNTER OF A BLACKTOP  
BW0421 'ROAD, 34 FEET NORTHEAST OF A POWER LINE SERVICE POLE, 18.5 FEET  
BW0421 'SOUTHEAST OF THE SOUTHEAST CORNER OF THE CALCOTE MEMORIAL MONUMENT,  
BW0421 '101 FEET NORTHEAST OF A POWER LINE POLE WITH A TRANSFORMER, 1 FOOT  
BW0421 'SOUTH OF A METAL WITNESS POST, SET IN THE TOP OF AN 11 INCH SQUARE  
BW0421 'CONCRETE POST ABOUT LEVEL WITH THE HIGHWAY AND IS FLUSH WITH THE  
BW0421 'GROUND. NOTE-- TO REACH FROM THE FRANKLIN COUNTY COURTHOUSE IN  
BW0421 'MEADVILLE GO EAST ON U.S. HIGHWAYS 98 ADN 84 FOR 0.4 MILE TO THE  
BW0421 'JUNCTION OF MISSISSIPPI HIGHWAY 556 AND THE MARK ON THE RIGHT AS  
BW0421 'DESCRIBED.

BW0421

BW0421

STATION RECOVERY (2001)

BW0421

BW0421 'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2001

BW0421 'RECOVERED IN GOOD CONDITION.

BW0421

BW0421

STATION RECOVERY (2008)

BW0421

BW0421 'RECOVERY NOTE BY MS DEPT TRANS 2008 (RDB)

BW0421 'RECOVERED AS DESCRIBED.

BW0421

BW0421

STATION RECOVERY (2009)

BW0421

BW0421 'RECOVERY NOTE BY MAPTECH INCORPORATED 2009 (NLN)

BW0421 'RECOVERED AS DESCRIBED.

BW0421

BW0421

STATION RECOVERY (2011)

BW0421

BW0421 'RECOVERY NOTE BY MISSISSIPPI STATE UNIVERSITY 2011 (JRC)

BW0421 'THE MARK IS ON A PIECE OF LAND SHAPED LIKE A SMALL TRIANGLE THAT  
BW0421 'DIVIDES TWO ROADS. THERE ARE STONES THAT BORDER THE SIDE TRIANGLE AND  
BW0421 'ALMOST TOUCH THE ROAD. THE MARK IS AT THE TIP OF THE TRIANGLE RIGHT  
BW0421 'BEHIND A CONCRETE MONUMENT.



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 19, 2016
CY4479 *****
CY4479 HT_MOD      - This is a Height Modernization Survey Station.
CY4479 DESIGNATION - PLEASANT AZ MK
CY4479 PID        - CY4479
CY4479 STATE/COUNTY- MS/COPIAH
CY4479 COUNTRY    - US
CY4479 USGS QUAD   - CASEYVILLE (1972)
CY4479
CY4479                                *CURRENT SURVEY CONTROL
CY4479
CY4479* NAD 83(2011) POSITION- 31 43 20.07898(N) 090 44 02.92325(W) ADJUSTED
CY4479* NAD 83(2011) ELLIP HT- 120.436 (meters) (06/27/12) ADJUSTED
CY4479* NAD 83(2011) EPOCH - 2010.00
CY4479* NAVD 88 ORTHO HEIGHT - 146.37 (meters) 480.2 (feet) GPS OBS
CY4479* NAVD 88 EPOCH - 2009.55
CY4479 **This station is located in a suspected subsidence area (see below).
CY4479
CY4479 NAVD 88 orthometric height was determined with geoid model GEOID12A
CY4479 GEOID HEIGHT - -25.925 (meters) GEOID12A
CY4479 GEOID HEIGHT - -25.925 (meters) GEOID12B
CY4479 NAD 83(2011) X - -69,579.421 (meters) COMP
CY4479 NAD 83(2011) Y - -5,429,972.385 (meters) COMP
CY4479 NAD 83(2011) Z - 3,334,336.452 (meters) COMP
CY4479 LAPLACE CORR - 0.25 (seconds) DEFLEC12B
CY4479
CY4479 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
CY4479 Standards:
CY4479 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
CY4479 Horiz Ellip SD_N SD_E SD_h (unitless)
CY4479 -----
CY4479 NETWORK 1.05 1.37 0.49 0.34 0.70 0.09809609
CY4479 -----
CY4479 Click here for local accuracies and other accuracy information.
CY4479
CY4479
CY4479.The horizontal coordinates were established by GPS observations
CY4479.and adjusted by the National Geodetic Survey in June 2012.
CY4479
CY4479.NAD 83(2011) refers to NAD 83 coordinates where the reference
CY4479.frame has been affixed to the stable North American tectonic plate. See
CY4479.NA2011 for more information.
CY4479
CY4479.The horizontal coordinates are valid at the epoch date displayed above
CY4479.which is a decimal equivalence of Year/Month/Day.
CY4479
CY4479 ** This station is in an area of known vertical motion. Due to the
CY4479 ** variability of land subsidence, uplift, and crustal motion, NGS has,
CY4479 ** determined the orthometric heights for marks in these suspect

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CY4479 \*\* subsidence areas should be considered valid only at the epoch date  
 CY4479 \*\* associated with the orthometric height. These heights must always  
 CY4479 \*\* be validated when used as control. All previously superseded  
 CY4479 \*\* orthometric heights are now considered suspect and are available  
 CY4479 \*\* in the superseded section. NGS does not recommend using suspect  
 CY4479 \*\* or superseded heights as control.

CY4479

CY4479.The orthometric height was determined by GPS observations and a  
 CY4479.high-resolution geoid model using precise GPS observation and  
 CY4479.processing techniques.

CY4479

CY4479.Significant digits in the geoid height do not necessarily reflect accuracy.

CY4479.GEOID12B height accuracy estimate available here.

CY4479

CY4479.The X, Y, and Z were computed from the position and the ellipsoidal ht.

CY4479

CY4479.The Laplace correction was computed from DEFLEC12B derived deflections.

CY4479

CY4479.The ellipsoidal height was determined by GPS observations

CY4479.and is referenced to NAD 83.

CY4479

CY4479. The following values were computed from the NAD 83(2011) position.

CY4479

CY4479;		North	East	Units	Scale	Factor	Converg.
CY4479;SPC MS W	-	246,421.917	662,014.044	MT	0.99996779	-0 12 38.7	
CY4479;SPC MS W	-	808,469.24	2,171,957.74	sFT	0.99996779	-0 12 38.7	
CY4479;UTM 15	-	3,511,882.046	714,689.962	MT	1.00016850	+1 11 30.6	
CY4479!	-	Elev Factor	x	Scale Factor	=	Combined Factor	
CY4479!SPC MS W	-	0.99998109	x	0.99996779	=	0.99994888	
CY4479!UTM 15	-	0.99998109	x	1.00016850	=	1.00014959	

CY4479

CY4479:		Primary Azimuth Mark	Grid Az
CY4479:SPC MS W	-	PLEASANT AZ MK 2	140 30 56.6
CY4479:UTM 15	-	PLEASANT AZ MK 2	139 06 47.3

CY4479

CY4479	PID	Reference Object	Distance	Geod. Az
CY4479				ddmmss.s
CY4479	CY4480	PLEASANT AZ MK 2		1401817.9
CY4479	BW2358	PLEASANT	398.060 METERS	32018

CY4479

CY4479 SUPERSEDED SURVEY CONTROL

CY4479

CY4479 NAD 83(2007)- 31 43 20.07881(N) 090 44 02.92373(W) AD(2002.00) A  
 CY4479 ELLIP H (09/06/11) 120.426 (m) GP(2002.00) 4 1

CY4479

CY4479.Superseded values are not recommended for survey control.

CY4479

CY4479.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

CY4479.See file dsdata.txt to determine how the superseded data were derived.

CY4479

CY4479\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15RYR1468911882(NAD 83)

CY4479



CY4479\_MARKER: DS = TRIANGULATION STATION DISK  
CY4479\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT  
CY4479\_STAMPING: PLEASANT 1948 RESET 1957  
CY4479\_MARK LOGO: CGS  
CY4479\_PROJECTION: FLUSH  
CY4479\_MAGNETIC: N = NO MAGNETIC MATERIAL  
CY4479\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO  
CY4479+STABILITY: SURFACE MOTION  
CY4479\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
CY4479+SATELLITE: SATELLITE OBSERVATIONS - February 02, 2008

CY4479	HISTORY	- Date	Condition	Report By
CY4479	HISTORY	- 1948	MONUMENTED	CGS
CY4479	HISTORY	- 20080202	GOOD	MSDOT

CY4479

CY4479 STATION DESCRIPTION

CY4479

CY4479'DESCRIBED BY MS DEPT TRANS 2008 (JL)  
CY4479'RECOVERED IN GOOD CONDITION WITH THE FOLLOWING ADDENDUMS. THE MARK IS  
CY4479'LOCATED IN JEFFERSON COUNTY IN THE COMMUNITY OF PLEASANT HILL, 4 MI  
CY4479'(6.4 KM) NORTHEAST ALONG HIGHWAY 28 FROM UNION CHURCH NEAR THE  
CY4479'COPIAH-JEFFERSON COUNTY LINE.

CY4479'

CY4479'TO REACH THE MARK FROM THE INTERSECTION OF INTERSTATE 55 AND HIGHWAY  
CY4479'28, (EXIT 61), PROCEED SOUTHWEST ON HIGHWAY 28 FOR 22 MI (35.4 KM) TO  
CY4479'THE INTERSECTION OF HIGHWAY 552 WEST AND SAINT PAUL ROAD (EAST), TURN  
CY4479'LEFT AND PROCEED EAST ON SAINT PAUL ROAD 0.2 M (0.7 FT) TO THE MARK ON  
CY4479'THE RIGHT.

CY4479'

CY4479'THE MARK IS 51 FT (15.5 M) WEST OF AN 16 INCH (41 CM) OAK TREE ON  
CY4479'FENCE LINE, 49 FT (14.9 M) EAST OF A POWER POLE NUMBER 21951 WHERE  
CY4479'POWER LINE CROSSES THE ROAD, 29 FT (8.8 M) SOUTH OF THE CENTERLINE OF  
CY4479'SAINT PAUL ROAD, 6.5 FT (2.0 M) SOUTH OF A 6 INCH (15 CM) CREOSOTE  
CY4479'FENCE POST, 1.5 FT (0.5 M) WEST OF A METAL WITNESS POST.





BW1870.GEOID12B height accuracy estimate available [here](#).

BW1870

BW1870.[Photographs](#) are available for this station.

BW1870

BW1870.The X, Y, and Z were computed from the position and the ellipsoidal ht.

BW1870

BW1870.The Laplace correction was computed from DEFLEC12B derived deflections.

BW1870

BW1870.The ellipsoidal height was determined by GPS observations

BW1870.and is referenced to NAD 83.

BW1870

BW1870. The following values were computed from the NAD 83(2011) position.

BW1870

BW1870;		North	East	Units	Scale Factor	Converg.
BW1870;SPC LA N	-	147,325.992	1,108,037.358	MT	0.99991608	+0 36 12.2
BW1870;SPC LA N	-	483,352.03	3,635,285.90	sFT	0.99991608	+0 36 12.2
BW1870;UTM 15	-	3,522,059.886	655,332.559	MT	0.99989758	+0 51 56.3
BW1870!	-	Elev Factor x Scale Factor =		Combined Factor		
BW1870!SPC LA N	-	0.99999964	x 0.99991608	=	0.99991572	
BW1870!UTM 15	-	0.99999964	x 0.99989758	=	0.99989722	

BW1870

SUPERSEDED SURVEY CONTROL

BW1870

BW1870	NAD 83(2007)-	31 49 25.06322(N)	091 21 31.41677(W)	AD(2002.00)	0
BW1870	ELLIP H (02/10/07)	2.296 (m)		GP(2002.00)	
BW1870	NAD 83(1992)-	31 49 25.06298(N)	091 21 31.41675(W)	AD( )	B
BW1870	ELLIP H (06/28/04)	2.294 (m)		GP( )	4 2
BW1870	NAD 83(1992)-	31 49 25.06247(N)	091 21 31.41576(W)	AD( )	B
BW1870	ELLIP H (11/18/03)	2.317 (m)		GP( )	4 1
BW1870	NAVD 88 (02/14/94)	28.430 (m)	93.27 (f)	ADJUSTED	1 2
BW1870	NAVD 88 (06/15/91)	28.442 (m)	93.31 (f)	SUPERSEDED	1 2
BW1870	NGVD 29 (??/??/??)	28.439 (m)	93.30 (f)	ADJUSTED	1 2

BW1870

BW1870.Superseded values are not recommended for survey control.

BW1870

BW1870.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

BW1870.[See file dsdata.txt](#) to determine how the superseded data were derived.

BW1870

BW1870\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15RXR5533222059(NAD 83)

BW1870

BW1870\_MARKER: DB = BENCH MARK DISK

BW1870\_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

BW1870\_STAMPING: Q 337 1979

BW1870\_PROJECTION: RECESSED 5 CENTIMETERS

BW1870\_MAGNETIC: N = NO MAGNETIC MATERIAL

BW1870\_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

BW1870\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

BW1870+SATELLITE: SATELLITE OBSERVATIONS - 2003

BW1870\_ROD/PIPE-DEPTH: 7.62 meters

BW1870

BW1870	HISTORY	- Date	Condition	Report By
BW1870	HISTORY	- 1979	MONUMENTED	NGS
BW1870	HISTORY	- 20020723	GOOD	PYBURN
BW1870	HISTORY	- 2003	GOOD	PYBURN



BW1870

BW1870

STATION DESCRIPTION

BW1870

BW1870'DESCRIBED BY NATIONAL GEODETIC SURVEY 1979

BW1870'2.2 MI NE FROM WATERPROOF.

BW1870'2.2 MILES NORTHEAST ALONG THE GRAVEL ROAD ON TOP OF THE LEVEE FROM

BW1870'THE WATER TANK AT THE JUNCTION OF 4TH STREET IN WATERPROOF, TO A

BW1870'CATTLE GUARD AND THE MARK IN THE FENCE LINE ON THE LEFT, 0.10 MILE

BW1870'NORTHEAST OF LEVEE STATION MARKER 6600, 11 FEET NORTHWEST OF THE

BW1870'CENTER OF THE CATTLE GUARD AND ROAD, 1.5 FEET WEST OF THE SOUTHEAST

BW1870'FENCE POST AT THE NORTHWEST SIDE OF THE CATTLE GUARD, 1 FOOT SOUTHWEST

BW1870'OF THE WIRE FENCE.

BW1870'THE MARK IS 1 FT SW FROM A WITNESS POST.

BW1870'THE MARK IS 1 FT BELOW ROAD.

BW1870

BW1870

STATION RECOVERY (2002)

BW1870

BW1870'RECOVERY NOTE BY PYBURN AND ODOM, INCORPORATED 2002

BW1870'RECOVERED AS DESCRIBED

BW1870'IPYBURN

BW1870'

BW1870

BW1870

STATION RECOVERY (2003)

BW1870

BW1870'RECOVERY NOTE BY PYBURN AND ODOM, INCORPORATED 2003 (RC)

BW1870'RECOVERED AS DESCRIBED IPYBURN



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

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PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 24, 2016
DG5002 *****
DG5002  CORS          - This is a GPS Continuously Operating Reference Station.
DG5002  DESIGNATION - TALLULAH CORS ARP
DG5002  CORS_ID     - TALL
DG5002  PID         - DG5002
DG5002  STATE/COUNTY- LA/MADISON
DG5002  COUNTRY     - US
DG5002  USGS QUAD   - TALLULAH (1994)
DG5002
DG5002                      *CURRENT SURVEY CONTROL
DG5002
DG5002* NAD 83(2011) POSITION- 32 24 01.19646(N) 091 10 58.81156(W) ADJUSTED
DG5002* NAD 83(2011) ELLIP HT-      7.410 (meters)          (08/??/11) ADJUSTED
DG5002* NAD 83(2011) EPOCH   - 2010.00
DG5002* NAVD 88 ORTHO HEIGHT -          *(meters)          *(feet)
DG5002
DG5002 NAD 83(2011) X  - -111,289.479 (meters)              COMP
DG5002 NAD 83(2011) Y  - -5,389,259.492 (meters)            COMP
DG5002 NAD 83(2011) Z  - 3,398,000.297 (meters)             COMP
DG5002 GEOID HEIGHT   - -26.475 (meters)                    GEOID12B
DG5002
DG5002 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DG5002 Standards:
DG5002          FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
DG5002          Horiz Ellip              SD_N   SD_E   SD_h          (unitless)
DG5002 -----
DG5002 NETWORK      1.22   4.32              0.52   0.48   2.20          0.03396589
DG5002 -----
DG5002 Click here for local accuracies and other accuracy information.
DG5002
DG5002 The coordinates were established by GPS observations
DG5002 and adjusted by the National Geodetic Survey in August 2011.
DG5002
DG5002 NAD 83(2011) refers to NAD 83 coordinates where the reference
DG5002 frame has been affixed to the stable North American Tectonic Plate.
DG5002
DG5002 The coordinates are valid at the epoch date displayed above
DG5002 which is a decimal equivalence of Year/Month/Day.
DG5002
DG5002 Significant digits in the geoid height do not necessarily reflect accuracy.
DG5002 GEOID12B height accuracy estimate available here.
DG5002
DG5002 The PID for the CORS L1 Phase Center is DK6706.
DG5002
DG5002 The XYZ, and position/ellipsoidal ht. are equivalent.
DG5002
DG5002 The ellipsoidal height was determined by GPS observations

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WOOLPERT

DG5002.and is referenced to NAD 83.

DG5002

DG5002. The following values were computed from the NAD 83(2011) position.

DG5002

DG5002;		North	East	Units	Scale Factor	Converg.
DG5002;SPC LA N	-	211,455.082	1,123,894.177	MT	0.99995011	+0 41 46.7
DG5002;SPC LA N	-	693,748.88	3,687,309.48	sFT	0.99995011	+0 41 46.7
DG5002;UTM 15	-	3,586,263.128	670,887.455	MT	0.99996012	+0 58 25.8
DG5002!	-	Elev Factor	x	Scale Factor	=	Combined Factor
DG5002!SPC LA N	-	0.99999884	x	0.99995011	=	0.99994895
DG5002!UTM 15	-	0.99999884	x	0.99996012	=	0.99995896

DG5002

DG5002 SUPERSEDED SURVEY CONTROL

DG5002

DG5002	ELLIP H (06/27/12)	7.424	(m)			GP(2010.00)
DG5002	NAD 83(2011)- 32 24	01.19667(N)		091 10	58.81186(W)	AD(2010.00) c
DG5002	NAD 83(CORS)- 32 24	01.19684(N)		091 10	58.81220(W)	AD(2002.00) c
DG5002	ELLIP H (04/??/04)	7.418	(m)			GP(2002.00) c c

DG5002

DG5002.Superseded values are not recommended for survey control.

DG5002

DG5002.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

DG5002.See file dsdata.txt to determine how the superseded data were derived.

DG5002

DG5002\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15SXR7088786263(NAD 83)

DG5002

DG5002\_MARKER: STATION IS THE ANTENNA REFERENCE POINT OF THE GPS ANTENNA

DG5002

DG5002 STATION DESCRIPTION

DG5002

DG5002'DESCRIBED BY NATIONAL GEODETIC SURVEY 2011  
 DG5002'STATION IS A GPS CORS. LATEST INFORMATION INCLUDING POSITIONS AND  
 DG5002'VELOCITIES ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE  
 DG5002'BY ANONYMOUS FTP OR THE WORLDWIDE WEB.  
 DG5002' ftp://cors.ngs.noaa.gov/cors/README.txt  
 DG5002' ftp://cors.ngs.noaa.gov/cors/coord/coord\_08  
 DG5002' ftp://cors.ngs.noaa.gov/cors/station\_log  
 DG5002' http://geodesy.noaa.gov/CORS



# The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

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PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,  Retrieval Date = FEBRUARY 20, 2016
CP0221 *****
CP0221 DESIGNATION -  TERRY RESET
CP0221 PID          -  CP0221
CP0221 STATE/COUNTY-  MS/HINDS
CP0221 COUNTRY      -  US
CP0221 USGS QUAD    -  TERRY (1971)
CP0221
CP0221                      *CURRENT SURVEY CONTROL
CP0221
CP0221* NAD 83(1993) POSITION- 32 06 01.13017(N) 090 18 01.16425(W)  ADJUSTED
CP0221* NAVD 88 ORTHO HEIGHT -   97.402 (meters)      319.56 (feet) ADJUSTED
CP0221* NAVD 88 EPOCH      - 2009.55
CP0221 **This station is located in a suspected subsidence area (see below).
CP0221
CP0221 LAPLACE CORR      -           -0.34 (seconds)          DEFLEC12B
CP0221 GEOID HEIGHT     -           -26.409 (meters)         GEOID12B
CP0221 DYNAMIC HEIGHT  -           97.288 (meters)      319.19 (feet) COMP
CP0221 MODELED GRAVITY -   979,464.0 (mgal)              NAVD 88
CP0221
CP0221 HORZ ORDER       -  SECOND
CP0221 VERT ORDER       -  FIRST      CLASS II
CP0221
CP0221.The horizontal coordinates were established by classical geodetic methods
CP0221.and adjusted by the National Geodetic Survey in May 1994.
CP0221.
CP0221 ** This station is in an area of known vertical motion. Due to the
CP0221 ** variability of land subsidence, uplift, and crustal motion, NGS has,
CP0221 ** determined the orthometric heights for marks in these suspect
CP0221 ** subsidence areas should be considered valid only at the epoch date
CP0221 ** associated with the orthometric height. These heights must always
CP0221 ** be validated when used as control. All previously superseded
CP0221 ** orthometric heights are now considered suspect and are available
CP0221 ** in the superseded section. NGS does not recommend using suspect
CP0221 ** or superseded heights as control.
CP0221
CP0221.The orthometric height was determined by differential leveling and
CP0221.adjusted by the NATIONAL GEODETIC SURVEY
CP0221.in July 2012.
CP0221
CP0221.No vertical observational check was made to the station.
CP0221
CP0221.Significant digits in the geoid height do not necessarily reflect accuracy.
CP0221.GEOID12B height accuracy estimate available here.
CP0221
CP0221.The Laplace correction was computed from DEFLEC12B derived deflections.
CP0221
CP0221.The dynamic height is computed by dividing the NAVD 88
CP0221.geopotential number by the normal gravity value computed on the

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CP0221	HISTORY	- 1945	MONUMENTED	CGS
CP0221	HISTORY	- 1948	GOOD	CGS
CP0221	HISTORY	- 1957	GOOD	CGS
CP0221	HISTORY	- 1961	GOOD	MSHD
CP0221	HISTORY	- 1965	GOOD	CGS
CP0221	HISTORY	- 1967	GOOD	CGS
CP0221	HISTORY	- 1969	GOOD	MSSU
CP0221	HISTORY	- 1969	GOOD	CGS
CP0221	HISTORY	- 1977	GOOD	NGS
CP0221	HISTORY	- 1977	GOOD	MSHD
CP0221	HISTORY	- 19920720	GOOD	NGS
CP0221	HISTORY	- 20070618	GOOD	3001
CP0221	HISTORY	- 20090317	GOOD	MSSU
CP0221	HISTORY	- 20100718	GOOD	JCLS

CP0221  
 CP0221  
 CP0221

STATION DESCRIPTION

CP0221'DESCRIBED BY COAST AND GEODETIC SURVEY 1945 (JCP)  
 CP0221'STATION IS LOCATED ON THE NE CORNER OF U.S. HIGHWAY 51 AND  
 CP0221'CEMETERY DRIVE AT THE NW EDGE OF TERRY ON LAND OWNED BY  
 CP0221'W.C. MITCHEL. IT IS 48 FEET E OF U.S. HIGHWAY 51, 80 FEET  
 CP0221'NW OF THE NW CORNER OF MR. MITCHELS HOUSE, AND 37 FEET SE  
 CP0221'OF THE E CONCRETE PILLAR OF CEMETERY DRIVE.  
 CP0221'  
 CP0221'STATION MARK IS A BRONZE STATION DISK SET IN TOP OF A CONCRETE  
 CP0221'POST, STAMPED TERRY 1945, AND ABOUT FLUSH WITH THE GROUND.  
 CP0221'UNDERGROUND MARK IS A BRONZE STATION DISK SET IN CONCRETE.  
 CP0221'  
 CP0221'REFERENCE MARK 1 IS 60.22 FEET NW OF THE STATION NEAR THE  
 CP0221'W PILLAR OF CEMETERY DRIVE. IT IS 46 FEET NE OF THE CENTER  
 CP0221'OF U.S. HIGHWAY 51 AND 1.5 FEET NW OF THE PILLAR. IT IS  
 CP0221'A BRONZE REFERENCE DISK SET IN TOP OF A CONCRETE POST, STAMPED  
 CP0221'TERRY NO 1 1945, AND PROJECTS ABOUT 4 INCHES.  
 CP0221'  
 CP0221'REFERENCE MARK 2 IS 134.36 FEET SW OF THE STATION, 53 FEET  
 CP0221'SE OF TELEPHONE POLE 110122, 88 FEET SW OF THE CENTER OF  
 CP0221'THE HIGHWAY, AND 66 FEET NW OF THE END OF THE SIDEWALK.  
 CP0221'IT IS A BRONZE REFERENCE DISK SET IN TOP OF A CONCRETE POST,  
 CP0221'STAMPED TERRY NO 2 1945, AND PROJECTS ABOUT 4 INCHES.  
 CP0221'  
 CP0221'AZIMUTH MARK IS ABOUT 0.25 MILE N OF THE STATION NEAR THE  
 CP0221'CEMETERY GATE, 3 FEET E OF THE W STONE PILLAR OF THE ENTRANCE  
 CP0221'TO THE TERRY CEMETERY. IT IS A BRONZE AZIMUTH DISK SET  
 CP0221'IN TOP OF A CONCRETE POST, STAMPED TERRY 1945, AND PROJECTS  
 CP0221'ABOUT 4 INCHES.  
 CP0221'  
 CP0221'TO REACH THE AZIMUTH MARK FROM THE STATION, GO N ON CEMETERY  
 CP0221'DRIVE FOR 0.25 MILE TO THE ENTRANCE TO THE TERRY CEMETERY  
 CP0221'AND AZIMUTH MARK.

CP0221'  
 CP0221'HEIGHT OF LIGHT ABOVE STATION MARK - 30 METERS.  
 CP0221'

STATION RECOVERY (1948)

CP0221  
 CP0221  
 CP0221'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1948 (FXP)



CP0221'THE STATION WAS RECOVERED AS DESCRIBED BY J.C.P. IN 1945  
CP0221'AND ALL MARKS WERE FOUND IN GOOD CONDITION. SURFACE, UNDERGROUND,  
CP0221'AZIMUTH, AND REFERENCE MARKS ARE STANDARD BRONZE DISKS SET  
CP0221'IN CONCRETE. THE

CP0221'ORIGINAL DESCRIPTION IS STILL ADEQUATE. A COMPLETE DESCRIPTION  
CP0221'FOLLOWS--  
CP0221'

CP0221'THE STATION IS LOCATED IN THE NORTHEAST EDGE OF TERRY AT  
CP0221'THE SOUTHWEST ENTRANCE TO THE TERRY CEMETERY, AND ON PROPERTY  
CP0221'OWNED BY MR. C.H. STRACHEN. IT IS 80 FEET WEST OF THE SOUTHWEST  
CP0221'CORNER OF MR. STRACHENS HOUSE, 48 FEET NORTHEAST OF THE  
CP0221'CENTERLINE OF U.S. HIGHWAY 51, AND 39 FEET SOUTHEAST OF  
CP0221'THE APPROXIMATE CENTER OF THE CEMETERY DRIVEWAY. THE MARK  
CP0221'IS FLUSH WITH THE GROUND, AND THE DISK IS STAMPED TERRY  
CP0221'1945.

CP0221'  
CP0221'REFERENCE MARK NO. 1 IS 60.22 FEET NORTHWEST OF THE STATION,  
CP0221'46 FEET NORTH OF THE CENTERLINE OF THE HIGHWAY, 12 FEET  
CP0221'WEST OF THE CENTER OF THE CEMETERY DRIVEWAY, AND 2 FEET  
CP0221'SOUTHWEST OF A STONE PILLAR. THE MARK PROJECTS 2 INCHES,  
CP0221'AND THE DISK IS STAMPED TERRY NO 1 1945.

CP0221'  
CP0221'REFERENCE MARK NO. 2 IS 134.36 FEET SOUTH-SOUTHWEST OF THE  
CP0221'STATION, 88 FEET SOUTH OF THE CENTERLINE OF THE HIGHWAY,  
CP0221'AND 50 FEET SOUTHEAST OF TELEPHONE POLE NO. 10122. THE  
CP0221'MARK PROJECTS 2 INCHES, AND THE DISK IS STAMPED TERRY NO  
CP0221'2 1945.

CP0221'  
CP0221'THE AZIMUTH MARK IS 0.25 MILE NORTH OF THE STATION, 9 FEET  
CP0221'WEST OF THE CENTER OF THE CEMETERY ENTRANCE, AND 3 FEET  
CP0221'EAST OF A STONE PILLAR. THE MARK PROJECTS 3 INCHES, AND  
CP0221'THE DISK IS STAMPED TERRY 1945.

CP0221'  
CP0221'TO REACH THE AZIMUTH MARK FROM THE STATION, GO NORTH ON THE  
CP0221'CEMETERY DRIVEWAY FOR 0.25 MILE TO THE AZIMUTH MARK ON THE  
CP0221'RIGHT.

CP0221'  
CP0221'HEIGHT OF LIGHT ABOVE MARK 30 METERS.

CP0221  
CP0221 STATION RECOVERY (1957)

CP0221  
CP0221'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1957 (RAG)  
CP0221'THE STATION WAS VISITED 4-14-57 AND THE STATION, AZIMUTH,  
CP0221'AND REFERENCE MARK NO. 1 WERE FOUND IN GOOD CONDITION. REFERENCE  
CP0221'MARK NO. 2 WAS FOUND DESTROYED WITH THE TOP OF THE MARK  
CP0221'BROKEN OFF, THE DISK WAS RECLAIMED. REFERENCE MARK NO.  
CP0221'3 WAS ESTABLISHED AT THIS DATE.

CP0221'  
CP0221'A NEW DESCRIPTION FOLLOWS--

CP0221'  
CP0221'THE STATION IS LOCATED AT THE NORTHEAST EDGE OF THE VILLAGE  
CP0221'OF TERRY, ACROSS THE ROAD FROM THE TERRY HIGH SCHOOL, IN  
CP0221'THE NORTHEAST ANGLE OF THE JUNCTION OF OLD HIGHWAY 51 AND  
CP0221'CEMETERY DRIVE, IN THE SOUTHWEST CORNER OF THE FRONT LAWN  
CP0221'OF A LARGE WHITE HOUSE OWNED BY MR. C.H. STATHAM AND NORTHEAST





CP0221 'IN GOOD CONDITION, AS DESCRIBED.  
CP0221  
CP0221 STATION RECOVERY (1967)  
CP0221  
CP0221 'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1967 (RB)  
CP0221 'STATION, R.M. 1, R.M. 3 AND AZIMUTH MARK FOUND IN GOOD CONDITION  
CP0221  
CP0221 STATION RECOVERY (1969)  
CP0221  
CP0221 'RECOVERY NOTE BY MISSISSIPPI STATE UNIVERSITY 1969 (RB)  
CP0221 'TERRY-GOOD  
CP0221 '  
CP0221 'R.M. 1-GOOD  
CP0221 '  
CP0221 'R.M. 3-GOOD  
CP0221 '  
CP0221 'AZ. MK.-GOOD  
CP0221  
CP0221 STATION RECOVERY (1969)  
CP0221  
CP0221 'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1969 (RRG)  
CP0221 'THE STATION, RM 1, RM 3, AND AZIMUTH MARK WERE ALL RECOVERED IN GOOD  
CP0221 'CONDITION. THE 1957 DESCRIPTION BY R.A.G. IN QUAD 320902, DATED  
CP0221 'JULY 1968 IS ADEQUATE.  
CP0221 '  
CP0221 'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN--AT TERRY.  
CP0221  
CP0221 STATION RECOVERY (1977)  
CP0221  
CP0221 'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1977 (CLN)  
CP0221 'THE STATION UNDERGROUND MARK AND REFERENCE MARKS NO. 1 AND NO. 3 AND  
CP0221 'THE AZIMUTH MARK WERE RECOVERED. THE UNDERGROUND MARK WAS LOWERED  
CP0221 'AND A NEW SURFACE MARK WAS ESTABLISHED AT THIS TIME. A COMPLETE NEW  
CP0221 'DESCRIPTION FOLLOWS--  
CP0221 '  
CP0221 'THE STATION IS LOCATED ABOUT 0.45 MILE NORTHWEST OF TERRY, NEAR THE  
CP0221 'INTERENCE TO THE TERRY CEMETERY AND ACROSS FROM THE TERRY HIGH  
CP0221 'SCHOOL IN THE NORTHEAST QUATER OF SECTION 16, T 3N, R 1W.  
CP0221 '  
CP0221 'TO REACH FROM THE POST OFFICE IN TERRY GO NORTHWEST ON CUNNINGHAM  
CP0221 'AVE FOR 0.45 MILE TO ENTRANCE TO CEMETERY AND THE STATION ON THE  
CP0221 'RIGHT.  
CP0221 '  
CP0221 'STATION MARK IS A STANDARD DISK---STAMPED---TERRY 1945 1977---SET IN  
CP0221 'THE TOP OF A ROUND CONCRETE POST 6 INCHES BELOW THE SURFACE OF THE  
CP0221 'GROUND. IT IS 141 FEET NORTHWEST OF POWER POLE NO. 291, 92.5 FEET  
CP0221 'EAST OF POWER POLE WITH GUY WIRES AND STREET LAMP, 53 FEET NORTHEAST  
CP0221 'OF THE CENTER OF PAVED ROAD, 42 FEET SOUTHEAST OF THE CENTER OF  
CP0221 'CEMETERY ROAD 24 FEET EAST OF A FIRE HYDRANT AND 21 FEET SOUTHWEST OF  
CP0221 'THE WEST CORNER OF CAR WASH.  
CP0221 '  
CP0221 'REFERENCE MARK NO. 1 IS A STANDARD DISK STAMPED---TERRY NO 1  
CP0221 '1945---SET IN THE TOP OF A SQUARE CONCRETE POST, FLUSH WITH THE  
CP0221 'GROUND. IT IS 86.5 FEET NORTHEAST OF POWER POLE WITH STREET LAMP 49.5  
CP0221 'FEET NORTHEAST OF THE CENTER OF PAVED ROAD, 49 FEET NORTH OF FIRE



CP0221'HYDRANT, 13 FEET NORTHWEST OF CENTER OF CEMETERY ROAD AND 1.7 FEET  
CP0221'SOUTHWEST OF THE SOUTHWEST FACE OF THE NORTHWEST STONE PILLAR AT  
CP0221'CEMETERY ENTRANCE.

CP0221'

CP0221'REFERENCE MARK NO. 3 IS A STANDARD DISK SET IN DRILL HOLE IN CONCRETE  
CP0221'SIDEWALK OF TERRY HIGH SCHOOL AND STAMPED---TERRY NO 3 1945. IT IS  
CP0221'136 FEET NORTHEAST OF THE NORTH CORNER OF TWO STORY BRICK SCHOOL  
CP0221'BUILDING, 25 FEET NORTHWEST OF THE PROJECTED PLANE OF NORTHWEST WALL  
CP0221'OF SAME BUILDING, 26 FEET SOUTHWEST OF CENTER OF CUNNINGHAM AVE., 81.5  
CP0221'FEET NORTH OF SCHOOL FLAG POLE AND IN NORTHEAST EDGE OF CONCRETE  
CP0221'SIDEWALK.

CP0221'

CP0221'AZIMUTH MARK IS A STANDARD DISK STAMPED---TERRY 1945---SET IN TOP OF  
CP0221'A SQUARE CONCRETE POST, PROJECTING 3 INCHES. IT IS IN THE CEMETERY,  
CP0221'39 FEET NORTHEAST OF A PAVED ROAD, 8 FEET NORTHWEST OF A PAVED ROAD,  
CP0221'23 FEET WEST OF THE WEST CORNER OF WILLIAM H. TRIBETTE HEADSTONE, 14  
CP0221'FEET SOUTH OF THE SOUTH CORNER OF FANNIE MILLER HEADSTONE AND 2.5  
CP0221'FEET SOUTHEAST OF THE EAST CORNER OF A STONE PILLAR.

CP0221'

CP0221'TO REACH AZIMUTH MARK FROM STATION, GO NORTHEAST ON CEMETERY ROAD  
CP0221'FOR 0.15 MILE TO SIDE ROAD LEFT, TURN LEFT FOR ABOUT 75 YARDS TO A  
CP0221'CROSS ROAD AND MARK.

CP0221

CP0221

STATION RECOVERY (1977)

CP0221

CP0221'RECOVERY NOTE BY MISSISSIPPI STATE HIGHWAY DEPARTMENT 1977

CP0221'0.45 MI NW FROM TERRY.

CP0221'THE MARK IS LOCATED 0.45 MILE NORTHWEST OF TERRY IN FRONT OF A CAR  
CP0221'WASH NEAR THE ENTRANCE TO THE TERRY CEMETERY ACROSS THE STREET FROM  
CP0221'THE TERRY HIGH SCHOOL NEAR THE JUNCTION OF A FRONTAGE ROAD ABOUT 100  
CP0221'YARDS SOUTHEAST OF I-55 IN THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF  
CP0221'SECTION 16, T 3N, R 1W. IT IS 141 FEET NORTHWEST OF POWER POLE NO.  
CP0221'291, 92.5 FEET EAST OF A POWER POLE WITH GUY WIRES AND A LAMP, 53 FEET  
CP0221'NORTHEAST OF THE CENTER OF A FRONTAGE ROAD, 42 FEET SOUTHEAST OF THE  
CP0221'CENTER OF CEMETERY DRIVE, 37 FEET SOUTH OF THE SOUTH CORNER OF THE  
CP0221'SOUTHEAST STONE PILLAR AT THE ENTRANCE TO THE CEMETERY, 24 FEET EAST  
CP0221'OF A FIRE PLUG SET IN THE TOP OF A ROUND CONCRETE POST AND IS 4 INCHES  
CP0221'BELOW THE GROUND. NOTE-- TO REACH FROM THE POST OFFICE IN TERRY GO  
CP0221'NORTHWEST ON CUNNINGHAM AVENUE FOR 0.45 MILE TO THE MARK ON THE RIGHT.

CP0221

CP0221

STATION RECOVERY (1992)

CP0221

CP0221'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1992

CP0221'0.5 KM (0.30 MI) NORTHEASTERLY ALONG CUNNINGHAM STREET FROM THE POST  
CP0221'OFFICE IN TERRY, 41.7 M (136.8 FT) NORTH OF REFERENCE MARK 3, 31.7 M  
CP0221'(104.0 FT) NORTHEAST OF THE CENTERLINE OF THE STREET, 18.3 M  
CP0221'(60.0 FT) SOUTHEAST OF REFERENCE MARK 1, 13.2 M (43.3 FT) SOUTHEAST  
CP0221'OF THE CENTER OF CEMETERY DRIVE, 11.2 M (36.7 FT) SOUTH OF THE SOUTH  
CP0221'CORNER OF THE MOST SOUTHEASTERLY OF 2 3 BY 3-FOOT CONCRETE POSTS AT  
CP0221'THE ENTRANCE TO THE TERRY CEMETERY, 7.3 M (24.0 FT) EAST OF A FIRE  
CP0221'HYDRANT, 6.4 M (21.0 FT) WEST OF THE WEST CORNER OF A CAR WASH, AND  
CP0221'THE MONUMENT IS RECESSED 0.3 M (1.0 FT) BELOW THE GROUND SURFACE.

CP0221

CP0221

STATION RECOVERY (2007)

CP0221



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CP0221'RECOVERY NOTE BY 3001, INC 2007 (JCP)

CP0221'RECOVERED IN GOOD CONDITION.

CP0221

CP0221

STATION RECOVERY (2009)

CP0221

CP0221'RECOVERY NOTE BY MISSISSIPPI STATE UNIVERSITY 2009 (CBA)

CP0221'RECOVERED IN GOOD CONDITION.

CP0221

CP0221

STATION RECOVERY (2010)

CP0221

CP0221'RECOVERY NOTE BY JOHN CHANCE LAND SURVEYS INC 2010

CP0221'RECOVERED IN GOOD CONDITION.



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

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PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 20, 2016
DL8639 *****
DL8639  CORS          -   This is a GPS Continuously Operating Reference Station.
DL8639  DESIGNATION  -   T H HARRIS CAMPUS CORS ARP
DL8639  CORS_ID      -   THHR
DL8639  PID          -   DL8639
DL8639  STATE/COUNTY-   LA/ST LANDRY
DL8639  COUNTRY      -   US
DL8639  USGS QUAD    -   OPELOUSAS (1992)
DL8639
DL8639                                     *CURRENT SURVEY CONTROL
DL8639
DL8639*  NAD 83(2011) POSITION- 30 31 45.63876(N) 092 04 50.18610(W)  ADJUSTED
DL8639*  NAD 83(2011) ELLIP HT-    2.728 (meters)          (08/??/11)  ADJUSTED
DL8639*  NAD 83(2011) EPOCH   -   2010.00
DL8639*  NAVD 88 ORTHO HEIGHT -          *(meters)          *(feet) NOT PUB
DL8639  **This station is located in a suspected subsidence area (see below).
DL8639
DL8639  NAD 83(2011) X   -   -199,632.285 (meters)          COMP
DL8639  NAD 83(2011) Y   -   -5,495,058.854 (meters)        COMP
DL8639  NAD 83(2011) Z   -   3,221,058.492 (meters)        COMP
DL8639  GEOID HEIGHT    -           -27.368 (meters)        GEOID12B
DL8639
DL8639. Formal positional accuracy estimates are not available for this CORS
DL8639. because its coordinates were determined in part using modeled
DL8639. velocities. Approximate one-sigma accuracies for latitude, longitude,
DL8639. and ellipsoid height can be obtained from the short-term time series.
DL8639. Additional information regarding modeled velocities is available on
DL8639. the CORS Coordinates and Multi-Year CORS Solution FAQ web pages.
DL8639
DL8639. The coordinates were established by GPS observations
DL8639. and adjusted by the National Geodetic Survey in August 2011.
DL8639
DL8639. NAD 83(2011) refers to NAD 83 coordinates where the reference
DL8639. frame has been affixed to the stable North American Tectonic Plate.
DL8639
DL8639. The coordinates are valid at the epoch date displayed above
DL8639. which is a decimal equivalence of Year/Month/Day.
DL8639
DL8639 ** This station is in an area of known vertical motion.  If an
DL8639 ** orthometric height was ever established but is not available
DL8639 ** in the current survey control section, the orthometric height
DL8639 ** is considered suspect.  Suspect heights are available in the
DL8639 ** superseded section only if requested.
DL8639
DL8639. Significant digits in the geoid height do not necessarily reflect accuracy.
DL8639. GEOID12B height accuracy estimate available here.
DL8639
DL8639. The PID for the CORS L1 Phase Center is DM6268.

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# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

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PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 24, 2016
DF9045 *****
DF9045 HT_MOD      - This is a Height Modernization Survey Station.
DF9045 DESIGNATION - VHM 3
DF9045 PID        - DF9045
DF9045 STATE/COUNTY- MS/WARREN
DF9045 COUNTRY    - US
DF9045 USGS QUAD   - VICKSBURG EAST (1962)
DF9045
DF9045                                *CURRENT SURVEY CONTROL
DF9045
DF9045* NAD 83(2011) POSITION- 32 17 23.61888(N) 090 51 07.58350(W) ADJUSTED
DF9045* NAD 83(2011) ELLIP HT- 13.557 (meters) (06/27/12) ADJUSTED
DF9045* NAD 83(2011) EPOCH - 2010.00
DF9045* NAVD 88 ORTHO HEIGHT - 40.10 (meters) 131.6 (feet) GPS OBS
DF9045
DF9045 NAVD 88 orthometric height was determined with geoid model GEOID99
DF9045 GEOID HEIGHT - -26.447 (meters) GEOID99
DF9045 GEOID HEIGHT - -26.547 (meters) GEOID12B
DF9045 NAD 83(2011) X - -80,261.066 (meters) COMP
DF9045 NAD 83(2011) Y - -5,396,369.075 (meters) COMP
DF9045 NAD 83(2011) Z - 3,387,656.965 (meters) COMP
DF9045 LAPLACE CORR - 0.06 (seconds) DEFLEC12B
DF9045
DF9045 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DF9045 Standards:
DF9045      FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
DF9045      Horiz Ellip              SD_N   SD_E   SD_h      (unitless)
DF9045 -----
DF9045 NETWORK      1.05   1.65              0.48   0.36   0.84      -0.05351203
DF9045 -----
DF9045 Click here for local accuracies and other accuracy information.
DF9045
DF9045
DF9045.The horizontal coordinates were established by GPS observations
DF9045.and adjusted by the National Geodetic Survey in June 2012.
DF9045
DF9045.NAD 83(2011) refers to NAD 83 coordinates where the reference
DF9045.frame has been affixed to the stable North American tectonic plate. See
DF9045.NA2011 for more information.
DF9045
DF9045.The horizontal coordinates are valid at the epoch date displayed above
DF9045.which is a decimal equivalence of Year/Month/Day.
DF9045
DF9045.The orthometric height was determined by GPS observations and a
DF9045.high-resolution geoid model using precise GPS observation and
DF9045.processing techniques.
DF9045
DF9045.Significant digits in the geoid height do not necessarily reflect accuracy.

```



DF9045.GEOID12B height accuracy estimate available [here](#).

DF9045

DF9045.The X, Y, and Z were computed from the position and the ellipsoidal ht.

DF9045

DF9045.The Laplace correction was computed from DEFLEC12B derived deflections.

DF9045

DF9045.The ellipsoidal height was determined by GPS observations

DF9045.and is referenced to NAD 83.

DF9045

DF9045. The following values were computed from the NAD 83(2011) position.

DF9045

DF9045;		North	East	Units	Scale Factor	Converg.
DF9045;SPC MS W	-	309,412.039	651,136.508	MT	0.99997943	-0 16 37.7
DF9045;SPC MS W	-	1,015,129.33	2,136,270.36	sFT	0.99997943	-0 16 37.7
DF9045;UTM 15	-	3,574,594.825	702,259.584	MT	1.00010451	+1 08 52.1
DF9045!	-	Elev Factor	x	Scale Factor	=	Combined Factor
DF9045!SPC MS W	-	0.99999787	x	0.99997943	=	0.99997730
DF9045!UTM 15	-	0.99999787	x	1.00010451	=	1.00010238

DF9045

SUPERSEDED SURVEY CONTROL

DF9045

DF9045 NAD 83(2007)- 32 17 23.61880(N) 090 51 07.58424(W) AD(2002.00) 0

DF9045 ELLIP H (02/10/07) 13.582 (m) GP(2002.00)

DF9045 NAD 83(1993)- 32 17 23.61901(N) 090 51 07.58404(W) AD( ) 1

DF9045 ELLIP H (11/18/03) 13.596 (m) GP( ) 3 2

DF9045

DF9045.Superseded values are not recommended for survey control.

DF9045

DF9045.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

DF9045.[See file dsdata.txt](#) to determine how the superseded data were derived.

DF9045

DF9045\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15SYR0225974594(NAD 83)

DF9045

DF9045\_MARKER: DD = SURVEY DISK

DF9045\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

DF9045\_STAMPING: VHM-3 2002

DF9045\_MARK LOGO: USACE

DF9045\_MAGNETIC: O = OTHER; SEE DESCRIPTION

DF9045\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

DF9045+STABILITY: SURFACE MOTION

DF9045\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

DF9045+SATELLITE: SATELLITE OBSERVATIONS - June 20, 2002

DF9045

DF9045 HISTORY - Date Condition Report By

DF9045 HISTORY - 20020620 MONUMENTED USACE

DF9045

STATION DESCRIPTION

DF9045

DF9045'DESCRIBED BY US ARMY CORPS OF ENGINEERS 2002

DF9045'THE STATION IS LOCATED IN THE CITY OF VICKSBURG, MISSISSIPPI.

DF9045'OWNERSHIP IS BY WARREN COUNTY, MISSISSIPPI.

DF9045'TO REACH THE STATION FROM THE INTERSECTION OF INTERSTATE 20

DF9045'AND HALLS FERRY ROAD IN VICKSBURG, MISSISSIPPI PROCEED 3 MILES

DF9045'SOUTH/SOUTHEAST ON



WOOLPERT

DF9045'HALLS 'FERRY ROAD TO THE STATION ON THE LEFT. THE STATION IS A  
DF9045'STANDARD COE BRASS CAP  
DF9045'SET FLUSH ON THE TOP OF A CONCRETE HEADWALL. THE STATION IS 16.5 FEET  
DF9045'NORTHEAST OF  
DF9045'THE CENTERLINE OF HALLS FERRY ROAD, 34 FEET SOUTHEAST  
DF9045'OF THE CENTERLINE OF A CONCRETE DRIVEWAY LEADING TO  
DF9045'A SMALL GROCERY STORE, APPROX. 120 FEET NORTH WEST OF THE INTERSECTION  
DF9045'OF GIBSON ROAD,  
DF9045'83 FEET SOUTHWEST OF THE SOUTHWEST CORNER OF THE GROCERY STORE.  
DF9045'



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 16, 2016
BW0892 *****
BW0892 DESIGNATION - WASHINGTON
BW0892 PID - BW0892
BW0892 STATE/COUNTY- MS/ADAMS
BW0892 COUNTRY - US
BW0892 USGS QUAD - WASHINGTON (1976)
BW0892
BW0892 *CURRENT SURVEY CONTROL
BW0892
BW0892* NAD 83(2011) POSITION- 31 34 43.75274(N) 091 17 58.76387(W) ADJUSTED
BW0892* NAD 83(2011) ELLIP HT- 59.199 (meters) (06/27/12) ADJUSTED
BW0892* NAD 83(2011) EPOCH - 2010.00
BW0892* NAVD 88 ORTHO HEIGHT - 85.419 (meters) 280.25 (feet) ADJUSTED
BW0892* NAVD 88 EPOCH - 2009.55
BW0892 **This station is located in a suspected subsidence area (see below).
BW0892
BW0892 NAD 83(2011) X - -123,357.266 (meters) COMP
BW0892 NAD 83(2011) Y - -5,437,311.878 (meters) COMP
BW0892 NAD 83(2011) Z - 3,320,766.514 (meters) COMP
BW0892 LAPLACE CORR - 0.48 (seconds) DEFLEC12B
BW0892 GEOID HEIGHT - -26.217 (meters) GEOID12B
BW0892 DYNAMIC HEIGHT - 85.315 (meters) 279.90 (feet) COMP
BW0892 MODELED GRAVITY - 979,425.5 (mgal) NAVD 88
BW0892
BW0892 VERT ORDER - FIRST CLASS II
BW0892
BW0892 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
BW0892 Standards:
BW0892 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
BW0892 Horiz Ellip SD_N SD_E SD_h (unitless)
BW0892 -----
BW0892 NETWORK 1.18 3.88 0.55 0.39 1.98 -0.04790066
BW0892 -----
BW0892 Click here for local accuracies and other accuracy information.
BW0892
BW0892
BW0892.The horizontal coordinates were established by GPS observations
BW0892.and adjusted by the National Geodetic Survey in June 2012.
BW0892
BW0892.NAD 83(2011) refers to NAD 83 coordinates where the reference
BW0892.frame has been affixed to the stable North American tectonic plate. See
BW0892.NA2011 for more information.
BW0892
BW0892.The horizontal coordinates are valid at the epoch date displayed above
BW0892.which is a decimal equivalence of Year/Month/Day.
BW0892
BW0892 ** This station is in an area of known vertical motion. Due to the
BW0892 ** variability of land subsidence, uplift, and crustal motion, NGS has,

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BW0892 \*\* determined the orthometric heights for marks in these suspect  
 BW0892 \*\* subsidence areas should be considered valid only at the epoch date  
 BW0892 \*\* associated with the orthometric height. These heights must always  
 BW0892 \*\* be validated when used as control. All previously superseded  
 BW0892 \*\* orthometric heights are now considered suspect and are available  
 BW0892 \*\* in the superseded section. NGS does not recommend using suspect  
 BW0892 \*\* or superseded heights as control.  
 BW0892  
 BW0892.The orthometric height was determined by differential leveling and  
 BW0892.adjusted by the NATIONAL GEODETIC SURVEY  
 BW0892.in July 2012.  
 BW0892  
 BW0892.Significant digits in the geoid height do not necessarily reflect accuracy.  
 BW0892.GEOID12B height accuracy estimate available [here](#).  
 BW0892  
 BW0892.The X, Y, and Z were computed from the position and the ellipsoidal ht.  
 BW0892  
 BW0892.The Laplace correction was computed from DEFLEC12B derived deflections.  
 BW0892  
 BW0892.The ellipsoidal height was determined by GPS observations  
 BW0892.and is referenced to NAD 83.  
 BW0892  
 BW0892.The dynamic height is computed by dividing the NAVD 88  
 BW0892.geopotential number by the normal gravity value computed on the  
 BW0892.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45  
 BW0892.degrees latitude (g = 980.6199 gals.).  
 BW0892  
 BW0892.The modeled gravity was interpolated from observed gravity values.  
 BW0892  
 BW0892. The following values were computed from the NAD 83(2011) position.  
 BW0892  
 BW0892;  

	North	East	Units	Scale Factor	Converg.
BW0892;SPC LA N	- 120,245.413	1,113,929.571	MT	0.99993213	+0 38 04.6
BW0892;SPC LA N	- 394,505.16	3,654,617.27	sFT	0.99993213	+0 38 04.6
BW0892;SPC MS W	- 230,854.973	608,276.751	MT	1.00005373	-0 30 21.9
BW0892;SPC MS W	- 757,396.69	1,995,654.64	sFT	1.00005373	-0 30 21.9
BW0892;UTM 15	- 3,495,006.596	661,347.117	MT	0.99992109	+0 53 26.2

 BW0892  
 BW0892!  

BW0892!SPC LA N	- 0.99999070	x 0.99993213	= 0.99992284
BW0892!SPC MS W	- 0.99999070	x 1.00005373	= 1.00004443
BW0892!UTM 15	- 0.99999070	x 0.99992109	= 0.99991180

 BW0892  
 BW0892:  

	Primary Azimuth Mark	Grid Az
BW0892:SPC LA N	- WASHINGTON AZ MK 2	128 42 48.6
BW0892:SPC MS W	- WASHINGTON AZ MK 2	129 51 15.1
BW0892:UTM 15	- WASHINGTON AZ MK 2	128 27 27.0

 BW0892  

PID	Reference Object	Distance	Geod. Az
BW0892			dddmmss.s
BW0892	CY5821 WASHINGTON AZ MK		1282646.8
BW0892	BW0895 WASHINGTON AZ MK 2		1292053.2
BW0892	BW0893 WASHINGTON RM 6	15.615 METERS	14605
BW0892	BW2411 NATCHEZ ST MARYS CATH SPIRE	APPROX. 9.9 KM	2570149.2



BW0892	BW2413 NATCHEZ MUNICIPAL TANK	APPROX. 9.6 KM 2590840.8
BW0892	BW0894 WASHINGTON RM 5	24.237 METERS 27511
BW0892	CY5823 WASHINGTON RM 1	31.288 METERS 28751
BW0892	CY5824 WASHINGTON RM 2	11.966 METERS 35944

BW0892 |-----|

BW0892  
 BW0892  
 BW0892

SUPERSEDED SURVEY CONTROL

BW0892	NAD 83(2007)-	31 34	43.75268(N)	091 17	58.76445(W)	AD(2002.00)	0
BW0892	ELLIP H (02/10/07)		59.208 (m)			GP(2002.00)	
BW0892	NAD 83(1993)-	31 34	43.75243(N)	091 17	58.76414(W)	AD( )	B
BW0892	ELLIP H (06/28/04)		59.213 (m)			GP( )	4 2
BW0892	NAD 83(1993)-	31 34	43.75150(N)	091 17	58.76331(W)	AD( )	2
BW0892	NAD 83(1986)-	31 34	43.76600(N)	091 17	58.75903(W)	AD( )	2
BW0892	NAD 27	- 31 34	43.16800(N)	091 17	58.36000(W)	AD( )	2
BW0892	NAVD 88 (06/28/04)		85.45 (m)	GEOID03 model used		GPS OBS	
BW0892	NAVD 88 (02/14/94)		85.421 (m)		280.25 (f)	SUPERSEDED	2 0
BW0892	NAVD 88 (06/15/91)		85.445 (m)		280.33 (f)	SUPERSEDED	2 0
BW0892	NGVD 29 (??/??/??)		85.425 (m)		280.27 (f)	ADJUSTED	2 0

BW0892

BW0892.Superseded values are not recommended for survey control.

BW0892

BW0892.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

BW0892.[See file dsdata.txt](#) to determine how the superseded data were derived.

BW0892

BW0892\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15RXQ6134795006(NAD 83)

BW0892

BW0892\_MARKER: DB = BENCH MARK DISK

BW0892\_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

BW0892\_STAMPING: WASHINGTON 1947

BW0892\_MARK LOGO: CGS

BW0892\_PROJECTION: RECESSED 13 CENTIMETERS

BW0892\_MAGNETIC: N = NO MAGNETIC MATERIAL

BW0892\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

BW0892+STABILITY: SURFACE MOTION

BW0892\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

BW0892+SATELLITE: SATELLITE OBSERVATIONS - January 24, 2016

BW0892

BW0892	HISTORY	- Date	Condition	Report By
BW0892	HISTORY	- 1947	MONUMENTED	CGS
BW0892	HISTORY	- 1956	GOOD	CGS
BW0892	HISTORY	- 1967	GOOD	CGS
BW0892	HISTORY	- 1969	GOOD	MSHD
BW0892	HISTORY	- 1969	GOOD	MSHD
BW0892	HISTORY	- 1970	GOOD	NGS
BW0892	HISTORY	- 1974	GOOD	MSSU
BW0892	HISTORY	- 1978	MARK NOT FOUND	MSHD
BW0892	HISTORY	- 1978	GOOD	NGS
BW0892	HISTORY	- 20031006	GOOD	INDIV
BW0892	HISTORY	- 20040316	GOOD	INDIV
BW0892	HISTORY	- 20090130	GOOD	MAPTEC
BW0892	HISTORY	- 20160124	GOOD	COMPDA

BW0892

STATION DESCRIPTION

BW0892

BW0892

BW0892'DESCRIBED BY COAST AND GEODETIC SURVEY 1947 (CAE)  
BW0892'THE STATION IS LOCATED IN WASHINGTON, 0.2 MILE EAST OF THE POST  
BW0892'OFFICE, IN THE GRASSY TRIANGLE FORMED AT THE JUNCTION OF U.S.  
BW0892'HIGHWAYS 61 AND 84. THE STATION MARK IS 130 FEET WEST OF A  
BW0892'GULF STATION, 74 FEET SOUTH OF THE CENTER LINE OF HIGHWAY  
BW0892'61, 41 FEET NORTH OF THE CENTER LINE OF HIGHWAY 84, AND 40  
BW0892'FEET WEST OF THE CENTER LINE OF A CONCRETE ROAD WHICH CONNECTS  
BW0892'THE TWO HIGHWAYS SLIGHTLY EAST OF THEIR JUNCTION. THE MARK  
BW0892'IS FLUSH WITH THE GROUND AND THE DISK IS STAMPED WASHINGTON  
BW0892'1947.

BW0892'

BW0892'REFERENCE MARK NO. 1 IS 102.65 FEET WEST-NORTHWEST OF THE  
BW0892'STATION, 33 FEET NORTH OF THE CENTER LINE OF HIGHWAY 84, AND 32  
BW0892'FEET SOUTH OF THE CENTER LINE OF HIGHWAY 61. THE MARK PROJECTS  
BW0892'1 INCH AND THE DISK IS STAMPED WASHINGTON NO 1 1947.

BW0892'

BW0892'REFERENCE MARK NO. 2 IS 39.26 FEET NORTH OF THE STATION  
BW0892'AND 35 FEET SOUTH OF THE CENTER LINE OF HIGHWAY 61. THE  
BW0892'MARK PROJECTS 1 INCH AND THE DISK IS STAMPED WASHINGTON  
BW0892'NO 2 1947.

BW0892'

BW0892'THE AZIMUTH MARK IS 0.3 MILE SOUTHEAST OF THE STATION, DIRECTLY  
BW0892'OPPOSITE AND ACROSS THE HIGHWAY FROM A SMALL GREEN HOUSE,  
BW0892'35 FEET SOUTH OF THE CENTER LINE OF U.S. HIGHWAY 84, AND 3  
BW0892'FEET SOUTHWEST OF A WHITE WITNESS POST. THE MARK PROJECTS  
BW0892'6 INCHES AND THE DISK IS STAMPED WASHINGTON 1947.

BW0892'

BW0892'HEIGHT OF LIGHT ABOVE STATION MARK 33 METERS.

BW0892

BW0892

STATION RECOVERY (1956)

BW0892

BW0892'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1956 (RAG)  
BW0892'THE STATION WAS VISITED 6-14-56 AND THE STATION MARK AND THE  
BW0892'AZIMUTH MARK WERE FOUND IN GOOD CONDITION. REFERENCE MARK  
BW0892'NO. 1 AND NO. 2 WERE DESTROYED BY CONSTRUCTION WORK DONE  
BW0892'ALONG THE HIGHWAY. REFERENCE MARK NO. 3 AND NO. 4 WERE  
BW0892'ESTABLISHED AT THIS DATE, BUT WERE NOT TIED TO THE AZIMUTH MARK  
BW0892'DUE TO THE OBSTRUCTION OF A LARGE SIGN WHICH COULD NOT BE  
BW0892'MOVED. A NEW DESCRIPTION FOLLOWS--

BW0892'

BW0892'THE STATION IS LOCATED 6.5 MILES EAST OF THE BUSINESS DISTRICT  
BW0892'OF NATCHEZ, AT THE VILLAGE OF WASHINGTON, IN THE TRIANGULAR  
BW0892'PLOT OF GROUND FORMED BY THE JUNCTION OF U.S. HIGHWAYS 61  
BW0892'AND 84 AND A ROAD CONNECTING THE TWO HIGHWAYS. IT IS DIRECTLY  
BW0892'OPPOSITE THE VILLAGE INN, 41 FEET NORTH OF THE CENTER LINE  
BW0892'OF U.S. HIGHWAY 84, 34 FEET SOUTH OF THE CENTER LINE OF THE  
BW0892'EAST-BOUND LANE OF U.S. HIGHWAY 61, 39 FEET WEST OF THE  
BW0892'CENTERLINE OF THE CONNECTING HIGHWAY AND 7 FEET NORTH OF  
BW0892'A POWER POLE. IT IS A STANDARD DISK, STAMPED WASHINGTON  
BW0892'1947, FLUSH WITH THE GROUND.

BW0892'

BW0892'REFERENCE MARK NO. 3 IS 52.45 FEET SOUTHEAST OF THE STATION,  
BW0892'AT THE SOUTHEAST POINT OF HE TRIANGULAR SHAPED PLOT OF GROUND  
BW0892'FORMED BY THE ROADS, 17 FEET NORTHEAST OF THE CENTER LINE  
BW0892'OF U.S. HIGHWAY 84, 11 FEET WEST-- OF THE CENTER LINE OF THE



BW0892'CONNECTING ROAD, 72 FEET NORTH OF A 3-FOOT OAK TREE, WHICH  
BW0892'IS IN THE FRONT YARD OF A WHITE HOUSE ON THE SOUTH SIDE OF  
BW0892'THE HIGHWAY, AND 45 FEET SOUTHEAST OF A POWER POLE. IT  
BW0892'IS A STANDARD DISK STAMPED WASHINGTON NO 3 1947, SET IN A  
BW0892'DRILL HOLE IN THE 8-INCH CURB OF THE HIGHWAY.

BW0892'

BW0892'REFERENCE MARK NO. 4 IS 91.39 FEET WEST OF THE STATION AT THE  
BW0892'WEST POINT OF THE TRIANGULAR PLOT OF GROUND, 15.5 FEET NORTH  
BW0892'OF THE CENTER LINE OF U.S. HIGHWAY 84, AND 15 FEET SOUTH  
BW0892'OF THE CENTER LINE OF THE EAST BOUND LANE OF U.S. HIGHWAY  
BW0892'61. IT IS A STANDARD DISK STAMPED WASHINGTON NO 4 1947,  
BW0892'SET IN A DRILL HOLE IN THE 8-INCH CURB OF THE HIGHWAY.

BW0892'

BW0892'THE AZIMUTH MARK IS 0.3 MILE SOUTHEAST OF THE STATION AT  
BW0892'THE NORTH END OF A CUT BANK, DIRECTLY ACROSS THE ROAD FROM  
BW0892'A SMALL WHITE HOUSE AND 35 FEET SOUTHWEST OF THE CENTER LINE  
BW0892'OF U.S. HIGHWAY 84. IT IS A STANDARD DISK, STAMPED WASHINGTON  
BW0892'1947, PROJECTING 6 INCHES.

BW0892

STATION RECOVERY (1967)

BW0892

BW0892'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1967 (LFS)  
BW0892'THE STATION WAS VISITED 8-15-67 AND THE STATION AND AZIMUTH MARK  
BW0892'WAS FOUND IN GOOD CONDITION. R.M. NO. 3 AND 4 WERE FOUND  
BW0892'DESTROYED. THE AZIMUTH MARK IS IN DANGER OF BEING DESTROYED  
BW0892'SO A NEW AZIMUTH MARK 2 WAS ESTABLISHED AT THIS DATE. THE  
BW0892'OLD AZIMUTH MARK WAS DESTROYED. R.M. NO. 5 AND 6 WAS ESTABLISHED  
BW0892'AT THIS DATE. A NEW DESCRIPTION FOLLOWS--

BW0892'

BW0892'THE STATION IS LOCATED 6.5 MILES EAST OF NATCHEZ AT THE  
BW0892'WASHINGTON, IN THE TRIANGULAR PLOT OF GROUND FORMED BY THE  
BW0892'JUNCTION OF U.S. HIGHWAY 61 AND 98 AND A ROAD CONNECTING  
BW0892'THE TWO HIGHWAYS DIRECTLY OPPOSITE THE RESTRUANT NORTH OF  
BW0892'HIGHWAY. THE STATION IS 38 FT. NORTH OF THE CENTER LINE OF  
BW0892'U.S. HIGHWAY 98, 34 FT. SOUTH OF THE CENTER LINE OF U.S.  
BW0892'HIGHWAY 61 (NORTH BOUND LANE), 38 FT. WEST OF THE CENTER LINE  
BW0892'OF CONNECTING ROAD BETWEEN THE TWO HIGHWAYS, 110 FT. NORTH  
BW0892'OF A 3 FOOT PECAN TREE SOUTH OF HIGHWAY 98, 7 FT. NORTH  
BW0892'OF A POWER POLE, 1 FOOT SOUTH OF A METAL WITNESS POST. IT  
BW0892'IS A TRIANGULATION DISK STAMPED WASHINGTON 1947, 6-INCHES  
BW0892'BELOW SURFACE OF THE GROUND.

BW0892'

BW0892'REFERENCE MARK NO. 5 IS 79.52 FT. WEST OF STATION AT  
BW0892'THE WEST POINT OF THE TRIANGULAR PLOT OF GROUND, 18 FT. SOUTH OF  
BW0892'THE CENTER LINE OF EAST BOUND LAND OF U.S. 61, 17 FT. NORTHEAST  
BW0892'OF THE CENTER LINE OF U.S. 98, 11.5 FT. EAST OF POINT OF ISLAND.  
BW0892'IT IS A REFERENCE MARK DISK STAMPED WASHINGTON 1947 NO 5 1967  
BW0892'PROJECTS 1-INCH.

BW0892'

BW0892'REFERENCE MARK NO. 6 IS 51.24 FT. SOUTHEAST OF STATION AT  
BW0892'THE SOUTHEAST POINT OF ISLAND, 15 FT. NORTHEAST OF THE CENTER LINE  
BW0892'OF U.S. 98, 14 FT. WEST OF THE CENTER LINE OF ROAD CONNECTING  
BW0892'U.S. 61 AND 98, 3 FT. NORTH OF POINT OF ISLAND. IT IS A  
BW0892'REFERENCE MARK DISK STAMPED WASHINGTON 1947 NO. 6 1967 PROJECTS  
BW0892'1-INCH.





BW0892'THE AZIMUTH MARK IS 0.3 MILE SOUTHEAST OF THE STATION ACROSS  
BW0892'THE HIGHWAY AND NORTHWEST OF A RED BRICK CHURCH ON THE  
BW0892'NORTH SLOPE OF A HILL, 51 FEET SOUTHWEST OF THE CENTER OF  
BW0892'U.S. HIGHWAY 98 AND 84, 21 FEET SOUTHWEST OF A POWER LINE,  
BW0892'112 FEET SOUTHWEST OF A POWER LINE POLE WITH A TRANSFORMER AND  
BW0892'GUY WIRES, 36 FEET NORTH OF A BANK IN WOODS AND 1 FOOT SOUTHWEST  
BW0892'OF A METAL WITNESS POST. IT IS A STANDARD AZIMUTH MARK DISK,  
BW0892'STAMPED WASHINGTON 1947 AZ 2 1967 PROJECTING 4 INCHES. (NOTE  
BW0892'

BW0892'TO REACH THE STATION FROM THE TRUCK SCALES NEAR THE U.S.  
BW0892'HIGHWAY 61, 84 AND 98 BYPASS AT THE EAST EDGE OF NATCHEZ GO  
BW0892'NORTHEAST ON U.S. HIGHWAYS 61, 98 AND 84 FOR 4.3 MILES TO  
BW0892'THE JUNCTION OF U.S. HIGHWAYS 98 AND 84 AND THE STATION  
BW0892'ON THE RIGHT AS DESCRIBED.

BW0892'  
BW0892'TO REACH THE AZIMUTH, TURN RIGHT (NORTHEAST) AND CONTINUE ON  
BW0892'U.S. HIGHWAYS 98 AND 84 FOR 0.3 MILE TO THE AZIMUTH ON THE  
BW0892'RIGHT JUST BEFORE REACHING A SIDE ROAD RIGHT.

BW0892'  
BW0892'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN--AT WASHINGTON  
BW0892  
BW0892 STATION RECOVERY (1969)  
BW0892

BW0892'RECOVERY NOTE BY MISSISSIPPI STATE HIGHWAY DEPARTMENT 1969  
BW0892'IN WASHINGTON.

BW0892'THE MARK IS LOCATED 6 MILES NORTHEAST OF NATCHEZ AT WASHINGTON IN THE  
BW0892'TRIANGULAR PLOT OF GROUND FORMED BY THE JUNCTION OF U.S. HIGHWAY 98,  
BW0892'84 AND 61 AND A ROAD CONNECTING THE TWO HIGHWAYS DIRECTLY OPPOSITE A  
BW0892'GROCERY STORE NORTH OF U.S. HIGHWAY 61. IT IS 38 FEET NORTH OF THE  
BW0892'CENTER OF U.S. HIGHWAYS 98 AND 84, 34 FEET SOUTH OF THE CENTER OF THE  
BW0892'SOUTH LANE OF U.S. HIGHWAY 61, 38 FEET WEST OF THE CENTER OF A  
BW0892'CONNECTING ROAD BETWEEN THE TWO HIGHWAYS, 110 FEET NORTH OF A 50-INCH  
BW0892'PECAN, 7 FEET NORTH OF A POWER LINE POLE, 1 FOOT SOUTH OF A METAL  
BW0892'WITNESS POST. IT IS SET IN THE TOP OF AN 11-INCH SQUARE CONCRETE POST  
BW0892'ABOUT 1 FOOT ABOVE THE LEVEL OF THE HIGHWAY AND IS 6 INCHES BELOW THE  
BW0892'SURFACE OF THE GROUND. NOTE-- TO REACH THE MARK FROM THE TRUCK SCALES  
BW0892'NEAR THE U.S. HIGHWAY 61, 98 AND 84 BYPASS AT THE EAST EDGE OF NATCHEZ  
BW0892'GO NORTHEAST ON U.S. HIGHWAYS 61, 98 AND 84 FOR 4.3 MILES TO THE  
BW0892'JUNCTION OF U.S. HIGHWAYS 98 AND 84 AND THE MARK ON THE RIGHT AS  
BW0892'DESCRIBED.

BW0892  
BW0892 STATION RECOVERY (1970)  
BW0892

BW0892'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1970 (JRH)  
BW0892'STATION RECOVERED IN GOOD CONDITION AS DESCRIBED.

BW0892'  
BW0892'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN--AT WASHINGTON  
BW0892

BW0892  
BW0892 STATION RECOVERY (1974)  
BW0892

BW0892'RECOVERY NOTE BY MISSISSIPPI STATE UNIVERSITY 1974 (BS)  
BW0892'WASHINGTON 1947 - GOOD

BW0892'  
BW0892'WASHINGTON 1947 NO 5 1967 - GOOD  
BW0892'



BW0892'WASHINGTON 1947 NO 6 1967 - GOOD  
BW0892'  
BW0892'WASHINGTON 1947 AZ 2 1967 - GOOD  
BW0892  
BW0892 STATION RECOVERY (1978)  
BW0892  
BW0892'RECOVERY NOTE BY MISSISSIPPI STATE HIGHWAY DEPARTMENT 1978 (TLC)  
BW0892'WASHINGTON NO. 6 DESTROYED (BRONZE DISK TORN FROM CONCRETE  
BW0892'PEDESTAL).  
BW0892'  
BW0892'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN--IN WASHINGTON, MS.  
BW0892  
BW0892 STATION RECOVERY (1978)  
BW0892  
BW0892'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1978 (GLN)  
BW0892'THE STATION MARK, REFERENCE MARK NO 5 AND AZIMUTH MARK WERE RECOVERED  
BW0892'IN GOOD CONDITION. REFERENCE MARK NO 6 CONCRETE POST WAS FOUND WITH  
BW0892'THE DISK REMOVED. A NEW REFERENCE MARK NO. 7 WAS ESTABLISHED IN THE  
BW0892'SAME CONCRETE POST THAT REFERENCE MARK NO. 6 WAS IN. A NEW DESCRIPTIO  
BW0892'FOLLOWS--  
BW0892'  
BW0892'STATION IS LOCATED 6.5 MILES EAST OF NATCHEZ AT THE VILLAGE OF  
BW0892'WASHINGTON, IN A TRIANGULAR PLOT OF GROUND FORMED BY THE JUNCTION OF  
BW0892'U.S. HIGHWAYS 98 AND 61.  
BW0892'  
BW0892'STATION MARK IS A STANDARD DISK STAMPED---WASHINGTON 1947---SET IN  
BW0892'TOP OF A SQUARE CONCRETE POST 4 INCHES BELOW THE SURFACE OF THE  
BW0892'GROUND. IT IS 38 FEET NORTH OF THE CENTER OF HIGHWAY 98, 34 FEET  
BW0892'SOUTH OF THE CENTER OF HIGHWAY 61 (NORTH-BOUND LANE), 38 FEET WEST  
BW0892'OF THE CENTER OF A CONNECTING ROAD BETWEEN THE TWO HIGHWAYS, 7 FEET  
BW0892'NORTH OF A POWER POLE AND 1 FOOT SOUTH OF A METAL WITNESS POST AND  
BW0892'SIGN.  
BW0892'  
BW0892'REFERENCE MARK NO. 5 IS A STANDARD DISK, STAMPED---WASHINGTON 1947  
BW0892'NO 5 1967---SET IN TOP OF A ROUND CONCRETE POST FLUSH WITH THE  
BW0892'GROUND. IT IS AT THE WEST POINT OF TRIANGULAR PLOT OF GROUND, 18  
BW0892'FEET SOUTH OF THE CENTE OF NORTH BOUND LANE OF HIGHWAY 61, 17 FEET  
BW0892'NORTHEAST OF THE CENTER OF HIGHWAY 98 AND 11.8 FEET EAST OF POINT  
BW0892'OF ISLAND.  
BW0892'  
BW0892'REFERENCE MARK NO. 7 IS A STANDARD DISK, STAMPED---WASHINGTON 1947  
BW0892'NO 7 1978---SET IN TOP OF A ROUND CONCRETE POST PROJECTING 1  
BW0892'INCH. IT IS AT THE SOUTHEAST POINT OF TRIANGULAR POST, 15 FEET  
BW0892'NORTHEAST OF THE CENTER OF HIGHWAY 98, 14 FEET WEST OF THE CENTER OF  
BW0892'CONNECTING ROAD, 8 FEET SOUTH OF A STOP SIGN AND 3 FEET NORTH OF  
BW0892'POINT OF ISLAND.  
BW0892'  
BW0892'AZIMUTH MARK IS A STANDARD DISK, STAMPED---WASHINGTON 1947 AZ 2  
BW0892'1967---SET IN TOP OF A ROUND CONCRETE POST PROJECTING 3 INCHES. IT  
BW0892'IS 0.3 MILE SOUTHEAST OF THE STATION, NORTHWEST AND ACROSS HIGHWAY  
BW0892'FROM RED BRICK CHURCH AND DIRECTORLY ACROSS HIGHWAY FROM BRICK HOUSE,  
BW0892'59 FEET SOUTHWEST OF THE CENTER OF HIGHWAY 98, 21 FEET SOUTHWEST OF  
BW0892'AN OVERHEAD POWER LINE, 16 FEET NORTHWEST OF THE CENTER OF A GRAVEL  
BW0892'ROAD AND 1 FOOT SOUTHWEST OF A METAL WITNESS POST AND SIGN.  
BW0892'



# The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,      Retrieval Date = FEBRUARY 20, 2016
CP3432 *****
CP3432 CBN          - This is a Cooperative Base Network Control Station.
CP3432 DESIGNATION - Y 362
CP3432 PID          - CP3432
CP3432 STATE/COUNTY- MS/HINDS
CP3432 COUNTRY      - US
CP3432 USGS QUAD    - JACKSON (1998)
CP3432
CP3432                      *CURRENT SURVEY CONTROL
CP3432
CP3432* NAD 83(2011) POSITION- 32 18 07.27550(N) 090 09 42.49853(W) ADJUSTED
CP3432* NAD 83(2011) ELLIP HT- 53.912 (meters) (06/27/12) ADJUSTED
CP3432* NAD 83(2011) EPOCH - 2010.00
CP3432* NAVD 88 ORTHO HEIGHT - 80.240 (meters) 263.25 (feet) ADJUSTED
CP3432
CP3432 NAD 83(2011) X - -15,239.254 (meters) COMP
CP3432 NAD 83(2011) Y - -5,396,260.000 (meters) COMP
CP3432 NAD 83(2011) Z - 3,388,815.265 (meters) COMP
CP3432 LAPLACE CORR - -1.23 (seconds) DEFLEC12B
CP3432 GEOID HEIGHT - -26.351 (meters) GEOID12B
CP3432 DYNAMIC HEIGHT - 80.151 (meters) 262.96 (feet) COMP
CP3432 MODELED GRAVITY - 979,524.1 (mgal) NAVD 88
CP3432
CP3432 VERT ORDER - FIRST CLASS II
CP3432
CP3432 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
CP3432 Standards:
CP3432          FGDC (95% conf, cm)          Standard deviation (cm)          CorrNE
CP3432          Horiz Ellip          SD_N SD_E SD_h          (unitless)
CP3432 -----
CP3432 NETWORK 0.52 0.86          0.19 0.23 0.44          0.04970068
CP3432 -----
CP3432 Click here for local accuracies and other accuracy information.
CP3432
CP3432
CP3432.The horizontal coordinates were established by GPS observations
CP3432.and adjusted by the National Geodetic Survey in June 2012.
CP3432
CP3432.NAD 83(2011) refers to NAD 83 coordinates where the reference
CP3432.frame has been affixed to the stable North American tectonic plate. See
CP3432.NA2011 for more information.
CP3432
CP3432.The horizontal coordinates are valid at the epoch date displayed above
CP3432.which is a decimal equivalence of Year/Month/Day.
CP3432
CP3432.The orthometric height was determined by differential leveling and
CP3432.adjusted by the NATIONAL GEODETIC SURVEY
CP3432.in February 1994.

```

CP3432  
 CP3432.Significant digits in the geoid height do not necessarily reflect accuracy.  
 CP3432.GEOID12B height accuracy estimate available [here](#).

CP3432  
 CP3432.[Photographs](#) are available for this station.

CP3432  
 CP3432.The X, Y, and Z were computed from the position and the ellipsoidal ht.

CP3432  
 CP3432.The Laplace correction was computed from DEFLEC12B derived deflections.

CP3432  
 CP3432.The ellipsoidal height was determined by GPS observations  
 CP3432.and is referenced to NAD 83.

CP3432  
 CP3432.The dynamic height is computed by dividing the NAVD 88  
 CP3432.geopotential number by the normal gravity value computed on the  
 CP3432.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45  
 CP3432.degrees latitude (g = 980.6199 gals.).

CP3432  
 CP3432.The modeled gravity was interpolated from observed gravity values.

CP3432  
 CP3432. The following values were computed from the NAD 83(2011) position.

CP3432

CP3432;	North	East	Units	Scale Factor	Converg.
CP3432;SPC MS W	- 310,651.489	716,154.085	MT	0.99995322	+0 05 30.0
CP3432;SPC MS W	- 1,019,195.76	2,349,582.19	sFT	0.99995322	+0 05 30.0
CP3432;UTM 15	- 3,577,452.176	767,247.412	MT	1.00048085	+1 31 03.3

CP3432  
 CP3432!  
 CP3432!SPC MS W  
 CP3432!UTM 15

	- Elev Factor	x	Scale Factor	=	Combined Factor
CP3432!SPC MS W	0.99999154	x	0.99995322	=	0.99994476
CP3432!UTM 15	0.99999154	x	1.00048085	=	1.00047238

CP3432  
 CP3432  
 CP3432 SUPERSEDED SURVEY CONTROL

CP3432	NAD 83(2007)-	32 18 07.27560(N)	090 09 42.49882(W)	AD(2002.00)	A
CP3432	ELLIP H (09/06/11)	53.899 (m)		GP(2002.00)	4 1
CP3432	NAD 83(2007)-	32 18 07.27528(N)	090 09 42.49919(W)	AD(2002.00)	0
CP3432	ELLIP H (02/10/07)	53.959 (m)		GP(2002.00)	
CP3432	ELLIP H (03/26/02)	53.924 (m)		GP(	) 4 2
CP3432	ELLIP H (07/24/97)	53.945 (m)		GP(	) 2 1
CP3432	NAD 83(1993)-	32 18 07.28973(N)	090 09 42.49556(W)	AD(	) 1
CP3432	NAD 83(1993)-	32 18 07.27511(N)	090 09 42.49927(W)	AD(	) A
CP3432	ELLIP H (01/12/94)	54.055 (m)		GP(	) 3 1
CP3432	NAVD 88 (07/24/97)	80.24 (m)	263.3 (f)	LEVELING	3
CP3432	NAVD 88 (01/12/94)	80.4 (m)	GEOID93 model used	GPS OBS	

CP3432  
 CP3432.Superseded values are not recommended for survey control.

CP3432  
 CP3432.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.  
 CP3432.[See file dsdata.txt](#) to determine how the superseded data were derived.

CP3432  
 CP3432\_U.S. NATIONAL GRID SPATIAL ADDRESS: 15SYR6724777452(NAD 83)

CP3432  
 CP3432\_MARKER: F = FLANGE-ENCASED ROD  
 CP3432\_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
   
 CP3432\_STAMPING: Y 362 1992



CP3432\_MARK LOGO: NGS  
CP3432\_PROJECTION: FLUSH  
CP3432\_MAGNETIC: N = NO MAGNETIC MATERIAL  
CP3432\_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO  
CP3432+STABILITY: SURFACE MOTION  
CP3432\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
CP3432+SATELLITE: SATELLITE OBSERVATIONS - April 28, 2009  
CP3432\_ROD/PIPE-DEPTH: 12.2 meters  
CP3432\_SLEEVE-DEPTH : 6.1 meters

CP3432	HISTORY	- Date	Condition	Report By
CP3432	HISTORY	- 1992	MONUMENTED	NGS
CP3432	HISTORY	- 19930303	GOOD	NGS
CP3432	HISTORY	- 19930401	GOOD	NGS
CP3432	HISTORY	- 20000201	GOOD	NGS
CP3432	HISTORY	- 20000501	GOOD	NGS
CP3432	HISTORY	- 20020807	GOOD	JCLS
CP3432	HISTORY	- 20040315	GOOD	COMPA
CP3432	HISTORY	- 20050525	GOOD	JCLS
CP3432	HISTORY	- 20070814	GOOD	JCLS
CP3432	HISTORY	- 20070814	GOOD	JCLS
CP3432	HISTORY	- 20080320	GOOD	INDIV
CP3432	HISTORY	- 20080828	GOOD	MSDOT
CP3432	HISTORY	- 20090428	GOOD	JCLS

CP3432

CP3432

STATION DESCRIPTION

CP3432

CP3432'DESCRIBED BY NATIONAL GEODETIC SURVEY 1992  
CP3432'IN JACKSON, AT 1695 HIGH STREET, 28.6 M (93.8 FT) EAST OF THE CENTER  
CP3432'OF A DRIVEWAY LEADING TO THE JUNIOR ACHIEVEMENT CENTER AT 1695 HIGH  
CP3432'STREET, 24.0 M (78.7 FT) SOUTH OF THE EXTENDED CENTER OF THE STREET,  
CP3432'3.8 M (12.5 FT) WEST OF THE CENTER OF A TRACK ROAD LEADING TO THE TOP  
CP3432'OF A LEVEE, 2.9 M (9.5 FT) SOUTH OF THE WEST SUPPORT POST OF A GATE,  
CP3432'AND 0.6 M (2.0 FT) WEST OF A WITNESS POST AND A CABLE FENCE.  
CP3432'NOTE--ACCESS TO THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

CP3432

CP3432

STATION RECOVERY (1993)

CP3432

CP3432'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1993  
CP3432'IN JACKSON, NEAR THE NORTHEAST CORNER OF THE LAWN OF THE JUNIOR  
CP3432'ACHIEVEMENT CENTER AT 1695 HIGH STREET, 28.6 M (93.8 FT) EAST OF THE  
CP3432'CENTER OF A DRIVEWAY LEADING TO THE CENTER, 24.0 M (78.7 FT) SOUTH OF  
CP3432'THE EXTENDED CENTER OF THE STREET, 3.8 M (12.5 FT) WEST OF THE CENTER  
CP3432'OF A TRACK ROAD LEADING SOUTH TO A LEVEE, 2.9 M (9.5 FT) SOUTH OF THE  
CP3432'WEST POST OF A GATE ACROSS THE ROAD, AND 0.6 M (2.0 FT) WEST OF A  
CP3432'WITNESS POST AND FENCE. NOTE--ACCESS TO THE DATUM POINT IS THROUGH A  
CP3432'5-INCH LOGO CAP.

CP3432

CP3432

STATION RECOVERY (1993)

CP3432

CP3432'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1993  
CP3432'STATION IS LOCATED ABOUT 1.0 MI (1.6 KM) EAST OF THE CENTER OF  
CP3432'DOWNTOWN JACKSON, AT THE EAST END OF HIGH STREET, ON STATE PROPERTY,  
CP3432'AT WEST BASE OF LEVEE.  
CP3432'TO REACH FROM THE JUNCTION OF INTERSTATE HIGHWAY 55 AND HIGH STREET



CP3432'(I-55 EXIT 96B), ON EAST EDGE OF JACKSON, GO EAST ON HIGH STREET FOR  
CP3432'0.25 MI (0.40 KM) TO LEVEE AND STATION ON RIGHT.  
CP3432'STATION IS A STAINLESS STEEL ROD WITH DATA POINT, ENCASED IN CONCRETE,  
CP3432'WITH LOGO COVER STAMPED---Y 362 1992---LOGO COVER IS FLUSH WITH THE  
CP3432'GROUND AND DATA POINT IS 3 INCHES BELOW THE SURFACE. IT IS 96.0 FT  
CP3432'(29.3 M) EAST OF THE CENTER OF ENTRANCE ROAD TO THE JR. ACHIEVEMENT  
CP3432'OF MS. BUILDING, 80.0 FT (24.4 M) SOUTH OF THE EXTENDED CENTER OF  
CP3432'HIGH STREET, 64.5 FT (19.7 M) SOUTHEAST OF POWER POLE WITH STREET  
CP3432'LAMP, 13.5 FT (4.1 M) SOUTH OF THE WEST IRON GATE POST OF LEVEE  
CP3432'ENTRANCE AND 2.0 FT (0.6 M) WEST SOUTHWEST OF A CABLE FENCE AND  
CP3432'CARSONITE WITNESS POST.

CP3432

CP3432 STATION RECOVERY (2000)

CP3432

CP3432'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2000

CP3432'RECOVERED AS DESCRIBED.

CP3432

CP3432 STATION RECOVERY (2000)

CP3432

CP3432'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2000

CP3432'RECOVERED AS DESCRIBED.

CP3432

CP3432 STATION RECOVERY (2002)

CP3432

CP3432'RECOVERY NOTE BY JOHN CHANCE LAND SURVEYS INC 2002

CP3432'RECOVERED IN GOOD CONDITION.

CP3432

CP3432 STATION RECOVERY (2004)

CP3432

CP3432'RECOVERY NOTE BY COMPASSCOM INC 2004 (DJ)

CP3432'RECOVERED IN GOOD CONDITION.

CP3432

CP3432 STATION RECOVERY (2005)

CP3432

CP3432'RECOVERY NOTE BY JOHN CHANCE LAND SURVEYS INC 2005

CP3432'RECOVERED IN GOOD CONDITION.

CP3432

CP3432 STATION RECOVERY (2007)

CP3432

CP3432'RECOVERY NOTE BY JOHN CHANCE LAND SURVEYS INC 2007 (MRY)

CP3432'RECOVERED IN GOOD CONDITION.

CP3432

CP3432 STATION RECOVERY (2007)

CP3432

CP3432'RECOVERY NOTE BY JOHN CHANCE LAND SURVEYS INC 2007

CP3432'RECOVERED IN GOOD CONDITION.

CP3432

CP3432 STATION RECOVERY (2008)

CP3432

CP3432'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2008 (JMR)

CP3432'RECOVERED-COVER IS MISSING

CP3432

CP3432 STATION RECOVERY (2008)

CP3432

CP3432'RECOVERY NOTE BY MS DEPT TRANS 2008 (SOL)



WOOLPERT

CP3432'RECOVERED AS DESCRIBED.

CP3432

CP3432

STATION RECOVERY (2009)

CP3432

CP3432'RECOVERY NOTE BY JOHN CHANCE LAND SURVEYS INC 2009

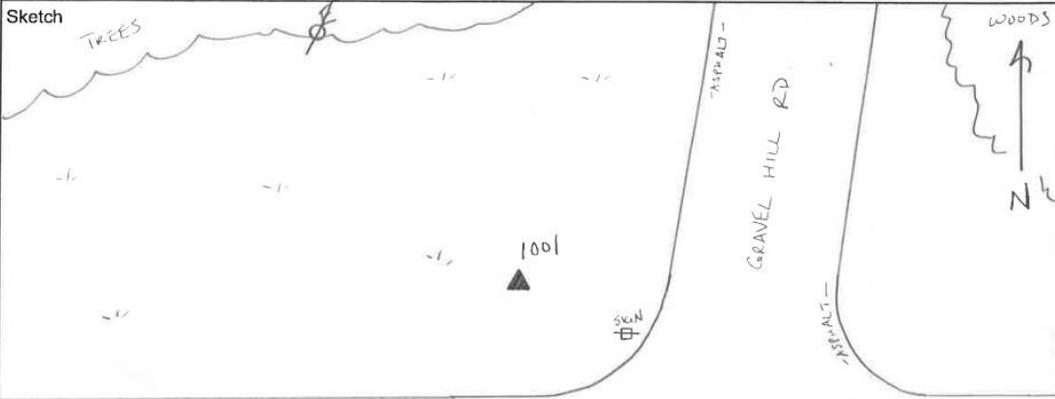
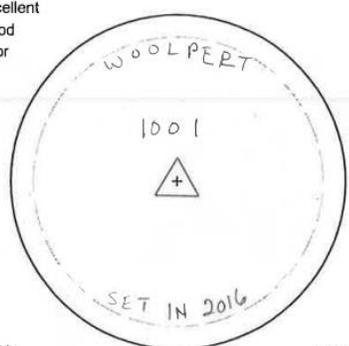
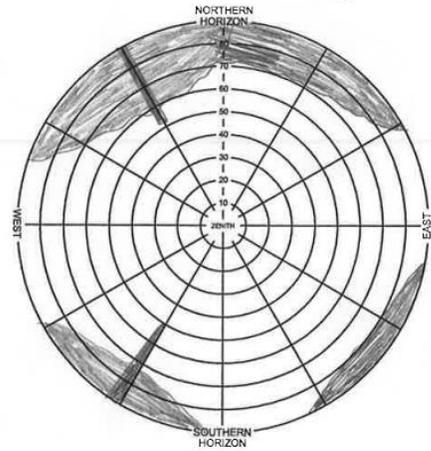
CP3432'RECOVERED IN GOOD CONDITION.



## Section 4: Station Observation Sheets and Photos

This section contains the station observation sheets and photos for all of the LiDAR control stations and recovered geodetic control stations for the USGS Mississippi NRCS FY16 LiDAR Project. The stations appear as they are ordered in the final coordinate listing of Section 2. LiDAR quality control stations and CORS were not documented.

# Woolpert Base Stations, Geodetic Control Stations and/or Geodetic Control Station Checks

76268 Mississippi NRCS 2016 LiDAR GPS Control Logs			
Station Designation <i>1001</i>	PID <i>N/A</i>	Location <b>Mississippi</b>	Date <i>02/20/2016</i>
<input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TACS <input type="checkbox"/> OBM <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> Other <u><i>TSM</i></u>		Observer <b>Zach Leesemann</b>	Organization <b>Woolpert Inc.</b>
<p>Sketch</p> 			
<p>Disk Detail <span style="float: right;"><input checked="" type="checkbox"/> Photos Available</span></p> <p>Monument is:</p> <p><input type="checkbox"/> A. Most stable  <input type="checkbox"/> B. Excellent  <input checked="" type="checkbox"/> C. Good  <input type="checkbox"/> D. Poor</p>  <p>Monument is:</p> <p><input type="checkbox"/> Recessed ___ cm  <input checked="" type="checkbox"/> Flush with ground  <input type="checkbox"/> Projecting ___ cm</p> <p>Disk is set:</p> <p><input type="checkbox"/> in bedrock.  <input type="checkbox"/> in concrete.  <input type="checkbox"/> in structure.</p>			
<p>Visibility Diagram <span style="float: right;"><input checked="" type="checkbox"/> Photos Available</span></p>  <p style="text-align: right;">○ No Obstructions above 10'</p>			

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>1001</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>1001_42350510.Topo</i>	<input type="checkbox"/> RTK File
------------------------------------	---	---	-----------------------------------

Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : : <i>8 : 23</i> local	Stop Time : : : <i>17 : 12</i> local	Calendar Date <i>02 / 20 / 2016</i>
--	--	--

Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID	Sta. SSN	Sta. ID <i>1001</i>	Session <i>-</i>	Julian Day <i>051</i>
-------------	----------	------------------------	---------------------	--------------------------

Latitude <i>N 31 ° 41 ' 27.97 "</i>	Longitude <i>W 91 ° 03 ' 02.23 "</i>
--	---

Antenna Ht. (before; include add. offsets) <i>2.00 m</i>	E-Height <i>75.5 m</i>
---	---------------------------

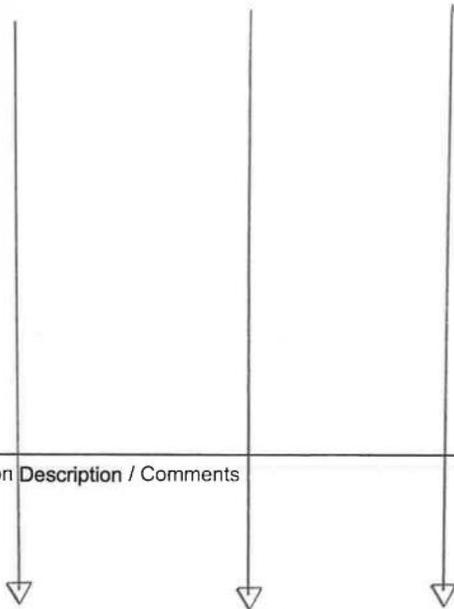
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	---

Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

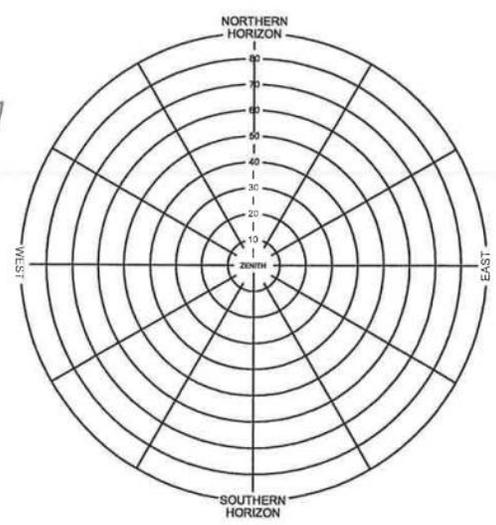
Sketch

*SEE S.R.L.*



Location	Description / Comments

Visibility Diagram  Photos Available



Setting Type • REBAR w/ NYLON CAP <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <i>23.5"</i>
Stamping <i>WOOLPERT 2016</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>WOOLPT</i>
Photo Ctrl Target Type <i>N/A</i>	

No Obstructions above 10'

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>1001</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>1001_42350520.T02</i> <input type="checkbox"/> RTK File
------------------------------------	---	--

Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : <i>7 : 38</i> local	Stop Time : : <i>18 : 40</i> local	Calendar Date <i>02/21/2016</i>
---	---	------------------------------------

Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID	Sta. SSN	Sta. ID <i>1001</i>	Session <i>-</i>	Julian Day <i>052</i>
-------------	----------	------------------------	---------------------	--------------------------

Latitude <i>N 31 ° 41 ' 27.97 "</i>	Longitude <i>W 91 ° 03 ' 02.23 "</i>
--	---

Antenna Ht. (before; include add. offsets) <i>2.00 m</i>	E-Height <i>75.5 m</i>
---	---------------------------

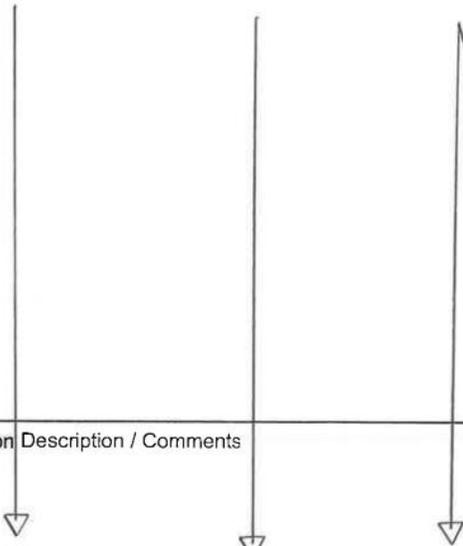
Ant. Ht. Measured To  Bottom of Ant. Mt.  Other: Ground Plane  Yes  No

Tripod Type  Fixed-Ht.  Slip-leg  Fixed mount  Bi-pod

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

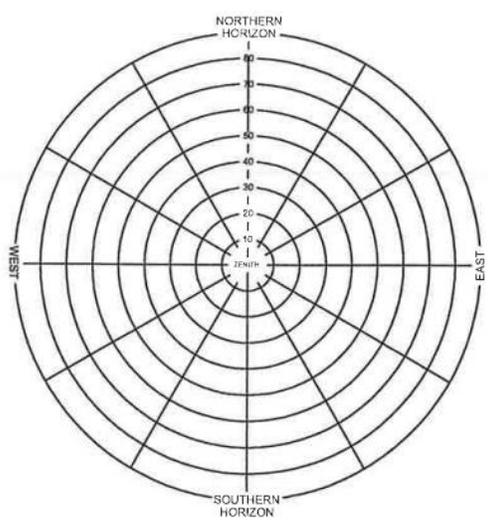
Sketch

*SEE PREVIOUS*



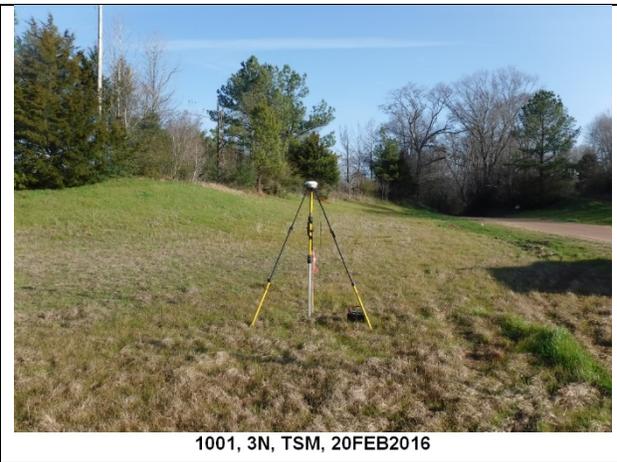
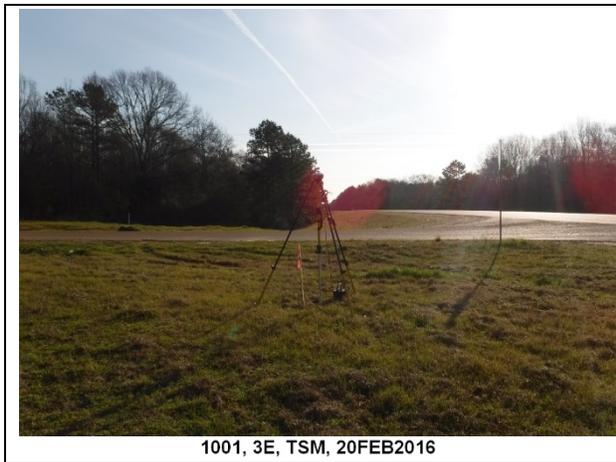
Location	Description / Comments
▼	
▼	
▼	

Visibility Diagram  Photos Available



Setting Type <i>REFLOR w/ Alum CAP</i>	Monument Size <i>~ 3.5"</i>
<input type="radio"/> Deep Rod <input type="radio"/> Concrete Mon. <input type="radio"/> Fixed Mt.	
Stamping <i>WOOLPERT 2016</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>WOOLPT</i>
Photo Ctrl Target Type <i>N/A</i>	

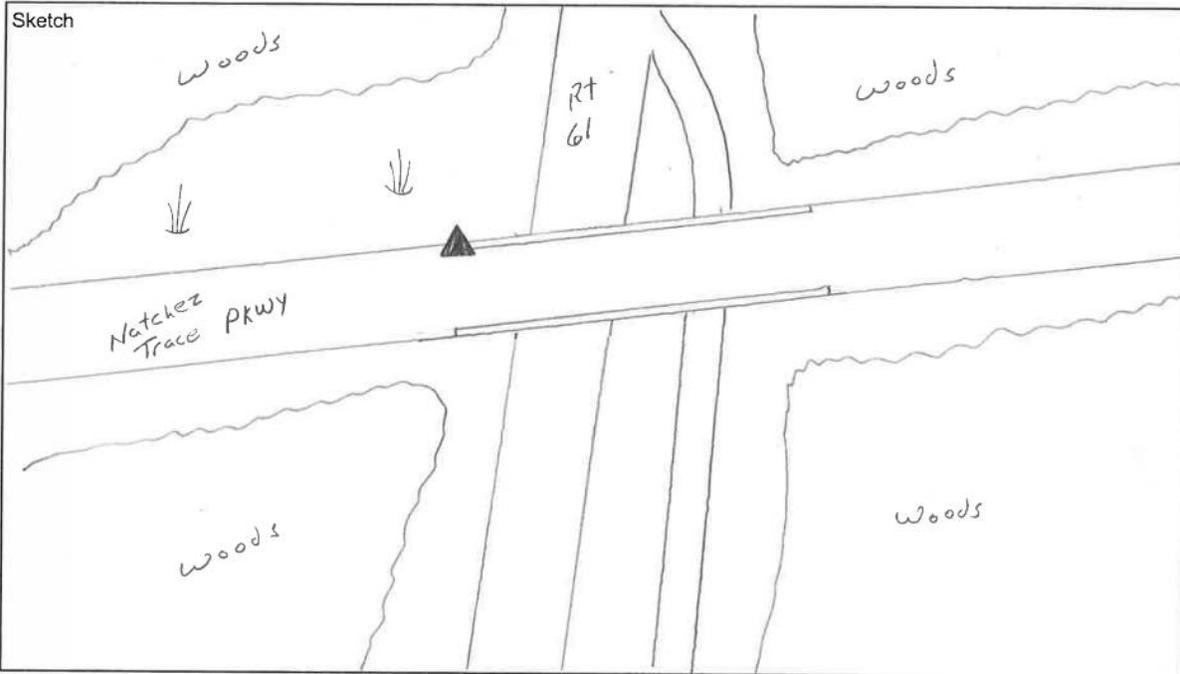
No Obstructions above 10'



76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>61 V 78</i>	PID <i>BW0507</i>	Location <b>Mississippi</b>	Date <i>2/21/2016</i>
<input type="radio"/> PACS <input type="radio"/> SACS <input type="radio"/> TACS <input type="radio"/> BM <input type="radio"/> FBN <input checked="" type="radio"/> CBN <input type="radio"/> Other _____	Observer <b>Bill Welbaum</b>	Organization <b>Woolpert Inc.</b>	



Disk Detail  Photos Available

Monument is:

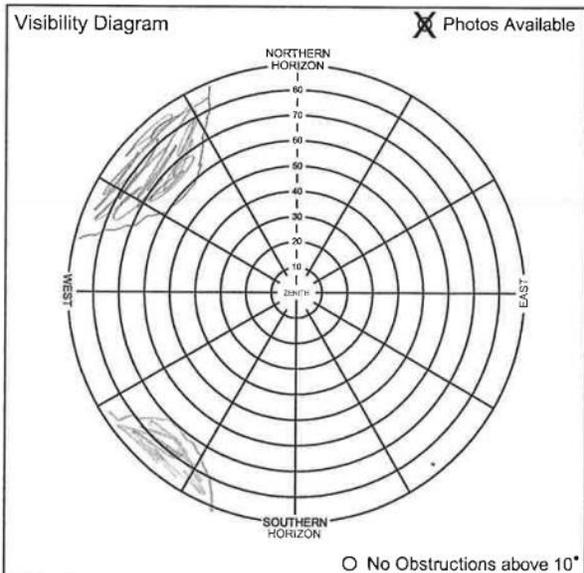
- A. Most stable
- B. Excellent
- C. Good
- D. Poor

Monument is:

- Recessed \_\_\_\_\_ cm
- Flush with ground
- Projecting \_\_\_\_\_ cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.



# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>61 V 78</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>76268BW02212016</i>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Bill Welbaum</b>	Home Office <b>Dayton</b>
Observer email <b>William.Welbaum@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1326</b> Cell - <b>937.284.0258</b>	

Start Time <i>2 : 04</i> utc	Stop Time <i>2 : 07</i> utc	Calendar Date <i>2 / 21 / 2016</i>
<i>1 : 04</i> local	<i>1 : 07</i> local	

Station Classification  
 FBN    CBN    BM    PACS    SACS    TSM  
 EoR    NAVAID    Photo Control    Other:

Station PID <i>BW0507</i>	Sta. SSN	Sta. ID <i>61V79</i>	Session	Julian Day <i>052</i>
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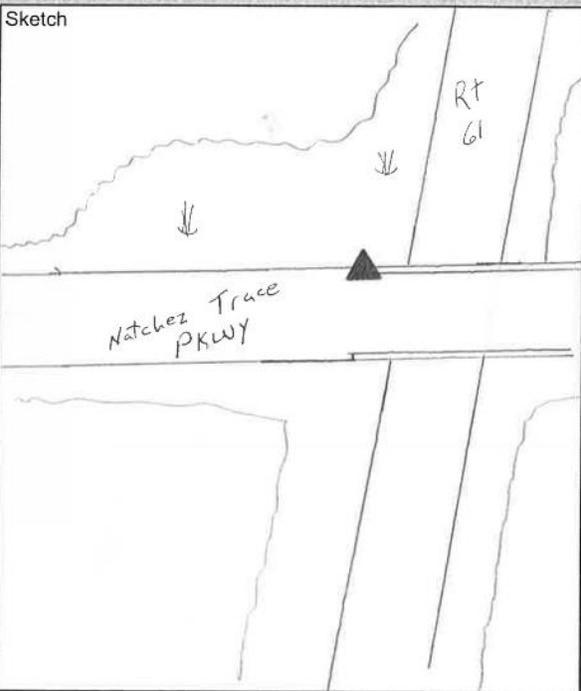
Latitude <i>N 31 ° 55 ' 47.40 "</i>	Longitude <i>W 90 ° 59 ' 41.88 "</i>
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Antenna Ht. (before; include add. offsets) <i>2.00 m 6.562</i>	E-Height <i>179.73 sft</i>
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Ant. Ht. Measured To      Ground Plane  
 Bottom of Ant. Mt.    Other:       Yes    No

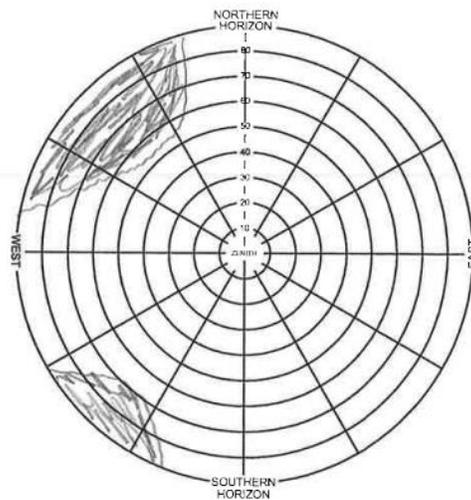
Tripod Type  
 Fixed-Ht.    Slip-leg    Fixed mount    Bi-pod

Receiver <i>P/N R8 mod 3</i>	Antenna <i>P/N R9 mod 3</i>
<i>S/N 8828</i>	<i>S/N 8829</i>



Location Description / Comments

Visibility Diagram       Photos Available



No Obstructions above 10'

Setting Type <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input checked="" type="checkbox"/> Fixed Mt.	Monument Size
Stamping <i>61 V 78 1970 BM</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>Miss. Highway Dept</i>
Photo Ctrl Target Type <i>N/A</i>	



61 V 78, BW0507, 1, 21FEB2016



61 V 78, BW0507, 2, 21FEB2016



61 V 78, BW0507, 3E, 21FEB2016



61 V 78, BW0507, 3N, 21FEB2016



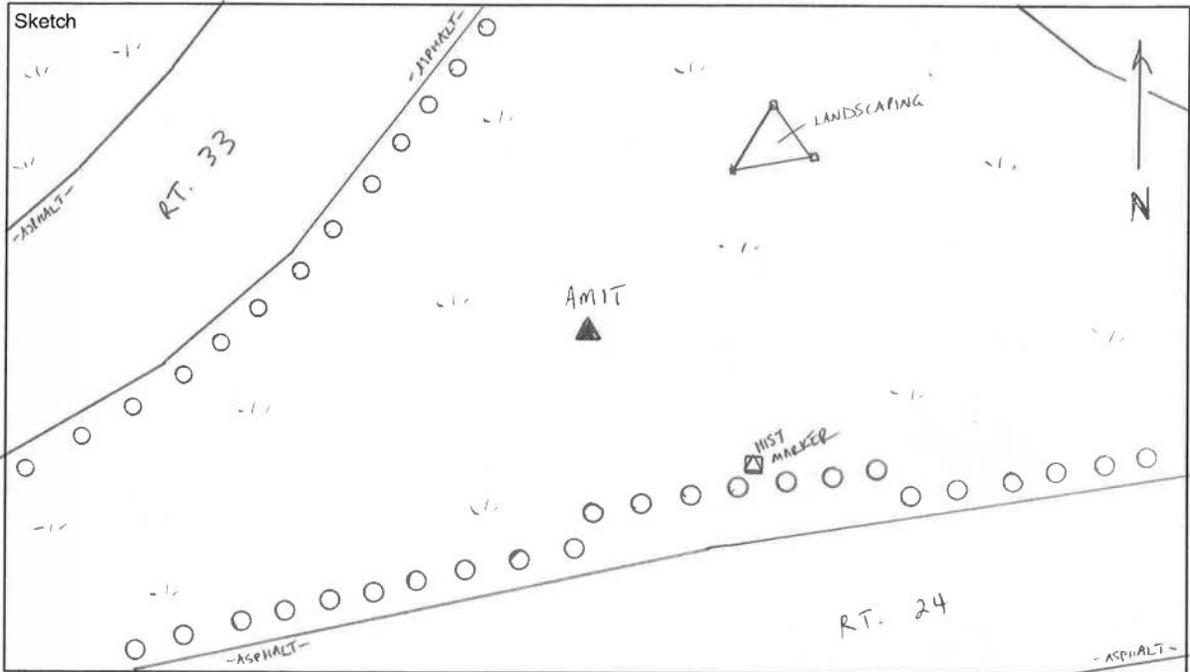
61 V 78, BW0507, 3S, 21FEB2016



61 V 78, BW0507, 3W, 21FEB2016

76268 Mississippi NRCS 2016 LiDAR GPS Control Logs 

Station Designation <b>AMIT</b>	PID <b>DN4038</b>	Location <b>Mississippi</b>	Date <b>02/18/2016</b>
<input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TACS <input type="checkbox"/> BMB <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> Other <u>HT MOD</u>		Observer <b>Zach Leesemann</b>	Organization <b>Woolpert Inc.</b>



Disk Detail  Photos Available

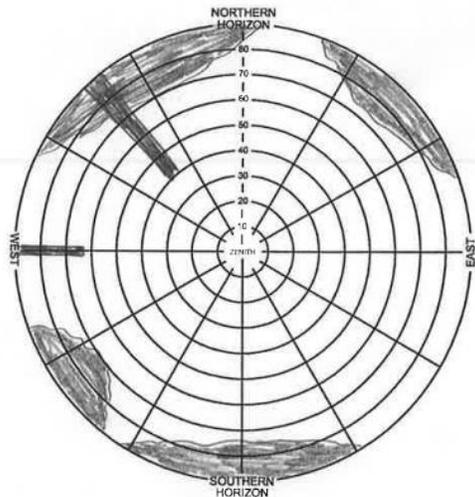
- Monument is:
- A. Most stable
  - B. Excellent
  - C. Good
  - D. Poor

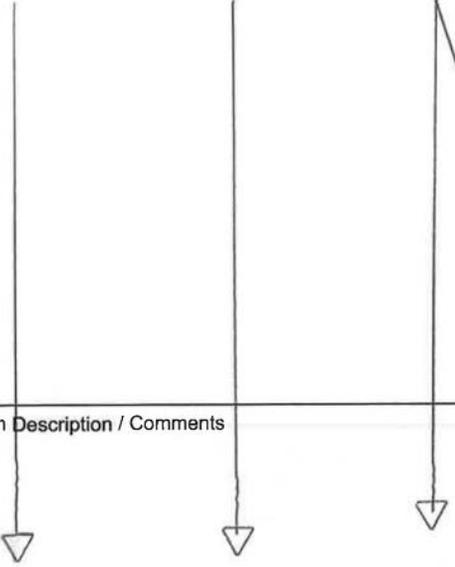
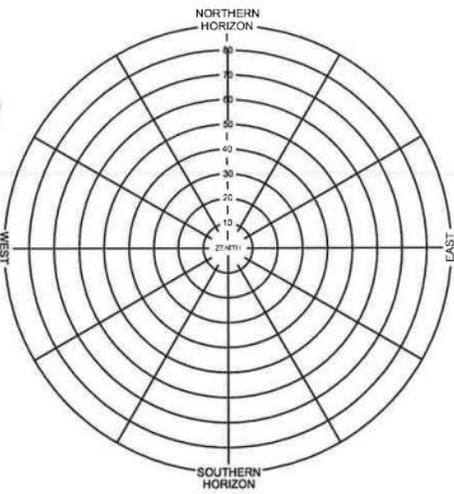


- Monument is:
- Recessed \_\_\_\_ cm
  - Flush with ground
  - Projecting \_\_\_\_ cm

- Disk is set:
- in bedrock.
  - in concrete.
  - in structure.

Visibility Diagram  Photos Available



76268 Mississippi NRCS 2016 LiDAR GPS Control Logs <span style="float: right;"></span>								
Station Designation <b>AmIT</b>		Airport LID & State <b>Mississippi</b>		Data File Name <input checked="" type="checkbox"/> RTK File <b>76268-02182016-ZRL.job</b>				
Observer Full Name <b>Zach Leeseemann</b>		Home Office <b>Dayton</b>		Start Time : : utc <b>10 : 56</b> local				
Observer email <b>Zach.Leeemann@Woolpert.com</b>				Stop Time : : utc <b>11 : 02</b> local				
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>		Calendar Date <b>02 / 18 / 2016</b>						
Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EOR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input checked="" type="checkbox"/> Other: <b>HT mod</b>								
Station PID <b>DN4038</b>		Sta. SSN -	Sta. ID <b>AmIT</b>	Session -				
Latitude <b>N 31 ° 12 ' 00.15 "</b>		Longitude <b>W 91 ° 00 ' 36.25 "</b>						
Antenna Ht. (before; include add. offsets) <b>2.00 m</b>		E-Height <b>315.767 sft</b>						
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:		Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod								
Receiver R8-3 P/N 67250-66 S/N 5211484428		Antenna R8-3 P/N 67250-66 S/N 5211484428						
Visibility Diagram <input checked="" type="checkbox"/> Photos Available								
<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">SEE S.R.L.</p>  </div>				 <p style="text-align: right;">○ No Obstructions above 10°</p>				
					Location Description / Comments			
					Setting Type <input type="checkbox"/> Deep Rod <input checked="" type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.		Monument Size <b>~ 3.5"</b>	
					Stamping <b>AmIT 2008</b>		Inscription (i.e. NGS, Woolpt, etc.) <b>MS DOT</b>	
Photo Ctrl Target Type <b>N/A</b>								



AMIT, DN4038, 1, HT\_MOD, 18FEB2016



AMIT, DN4038, 2, HT\_MOD, 18FEB2016



AMIT, DN4038, 3E, HT\_MOD, 18FEB2016



AMIT, DN4038, 3N, HT\_MOD, 18FEB2016



AMIT, DN4038, 3S, HT\_MOD, 18FEB2016

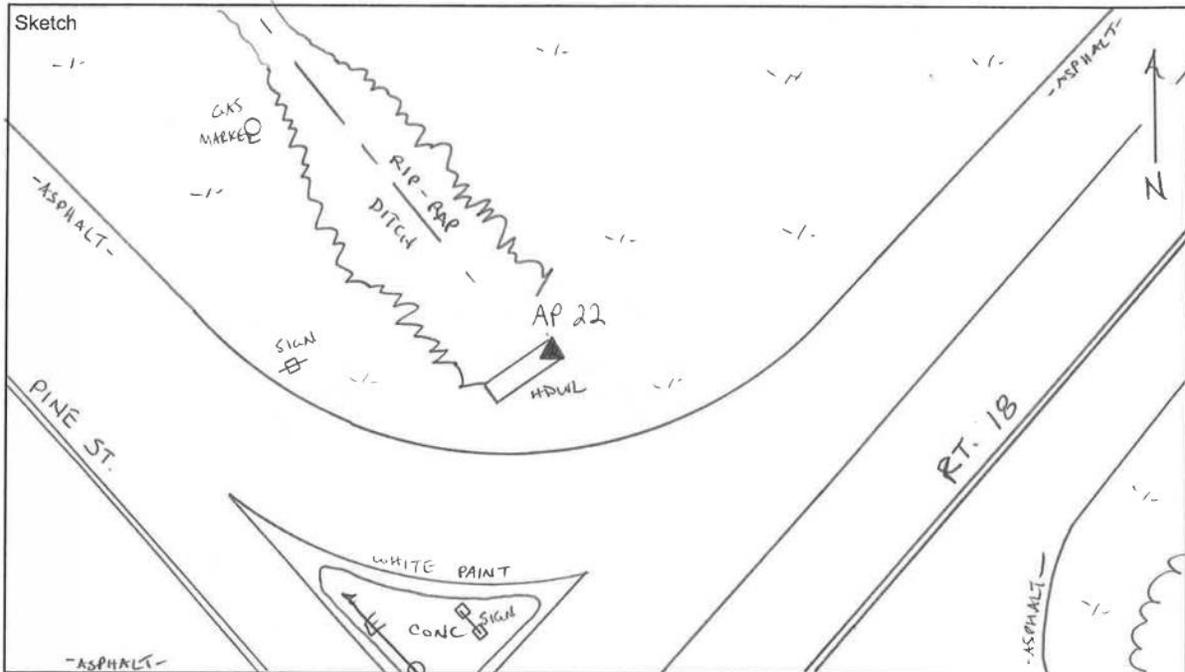


1001, 3W, TSM, 20FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



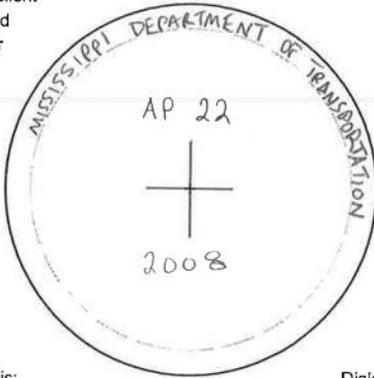
Station Designation <b>AP 22</b>	PID <b>DN3845</b>	Location <b>Mississippi</b>	Date <b>02/23/2016</b>
<input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TACS <input type="checkbox"/> BM <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> Other <u>HT MOD</u>		Observer <b>Zach Leeseemann</b>	Organization <b>Woolpert Inc.</b>



Photos Available

Disk Detail  
Monument is:

- A. Most stable
- B. Excellent
- C. Good
- D. Poor

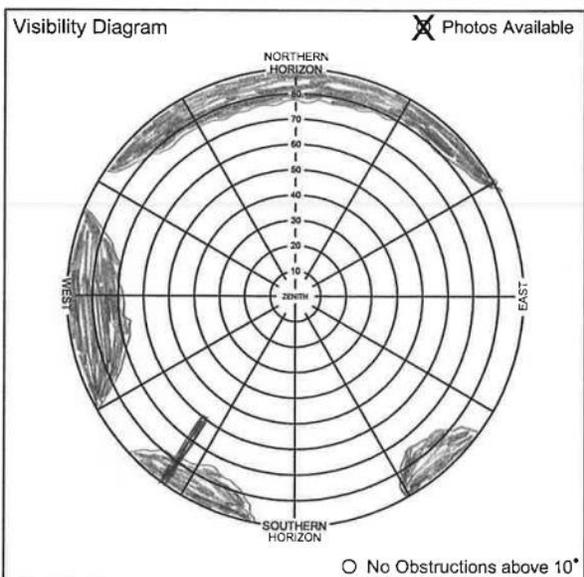


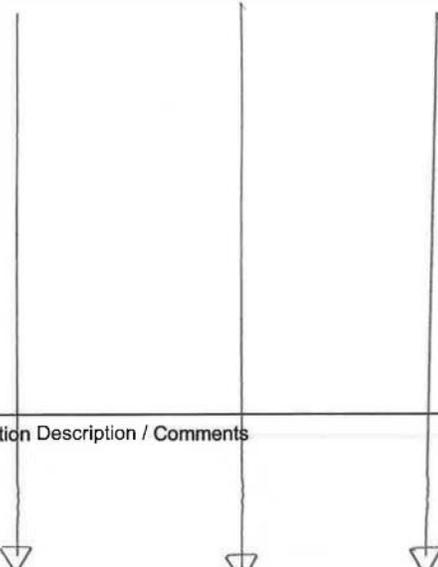
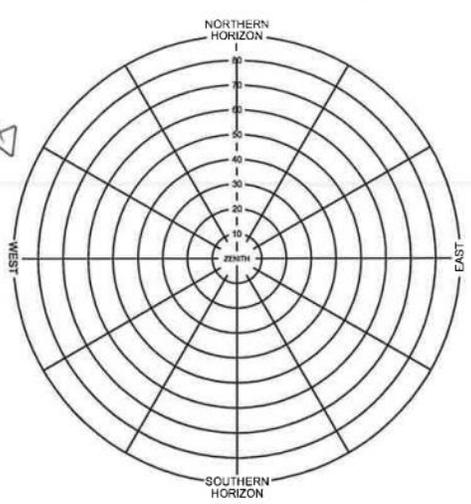
Monument is:

- Recessed \_\_\_\_ cm
- Flush with ground
- Projecting \_\_\_\_ cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.



76268 Mississippi NRCS 2016 LiDAR GPS Control Logs <span style="float: right;"></span>			
Station Designation <p style="text-align: center;">AP 22</p>		Airport LID & State <p style="text-align: center;"><b>Mississippi</b></p>	Data File Name <p style="text-align: center;">76268_02232016_ZRL.job</p>
Observer Full Name <p style="text-align: center;"><b>Zach Leeseemann</b></p>		Home Office <p style="text-align: center;"><b>Dayton</b></p>	Start Time : : utc 10 : 55 local
Observer email <p style="text-align: center;"><b>Zach.Leeemann@Woolpert.com</b></p>		Stop Time : : utc 11 : 02 local	Calendar Date <p style="text-align: center;">02/23/2016</p>
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>		Station Classification <input type="radio"/> FBN <input type="radio"/> CBN <input type="radio"/> BM <input type="radio"/> PACS <input type="radio"/> SACS <input type="radio"/> TSM <input type="radio"/> EOR <input type="radio"/> NAVAID <input checked="" type="radio"/> Photo Control <input type="radio"/> Other: HT MOD	
Sketch <p style="text-align: center;">SEE S.R.L.</p> 		Station PID <p style="text-align: center;">DN3845</p>	Sta. SSN <p style="text-align: center;">—</p>
Latitude <p style="text-align: center;">N 32 ° 05 ' 49.55 "</p>		Sta. ID <p style="text-align: center;">AP 22</p>	Session <p style="text-align: center;">—</p>
Longitude <p style="text-align: center;">W 90 ° 37 ' 19.63 "</p>		Julian Day <p style="text-align: center;">054</p>	Antenna Ht. (before; include add. offsets) <p style="text-align: center;">2.00 m</p>
E-Height <p style="text-align: center;">163.309 ft</p>		Ant. Ht. Measured To <input checked="" type="radio"/> Bottom of Ant. Mt. <input type="radio"/> Other:	Ground Plane <input type="radio"/> Yes <input checked="" type="radio"/> No
Tripod Type <input checked="" type="radio"/> Fixed-Ht. <input type="radio"/> Slip-leg <input type="radio"/> Fixed mount		Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
Location Description / Comments		Visibility Diagram <span style="float: right;"><input checked="" type="checkbox"/> Photos Available</span>	
			
Setting Type <input type="radio"/> Deep Rod <input checked="" type="radio"/> Concrete Mon. <input type="radio"/> Fixed Mt.		Monument Size <p style="text-align: center;">~ 3.5"</p>	
Stamping <p style="text-align: center;">AP 22 2008</p>		Inscription (i.e. NGS, Woolpt, etc.) <p style="text-align: center;">MS DAT</p>	
Photo Ctrl Target Type <p style="text-align: center;">N/A</p>		○ No Obstructions above 10°	



AP 22, DN3845, 1, HT\_MOD, 23FEB2016



AP 22, DN3845, 2, HT\_MOD, 23FEB2016



AP 22, DN3845, 3NE, HT\_MOD, 23FEB2016



AP 22, DN3845, 3NW, HT\_MOD, 23FEB2016



AP 22, DN3845, 3SE, HT\_MOD, 23FEB2016

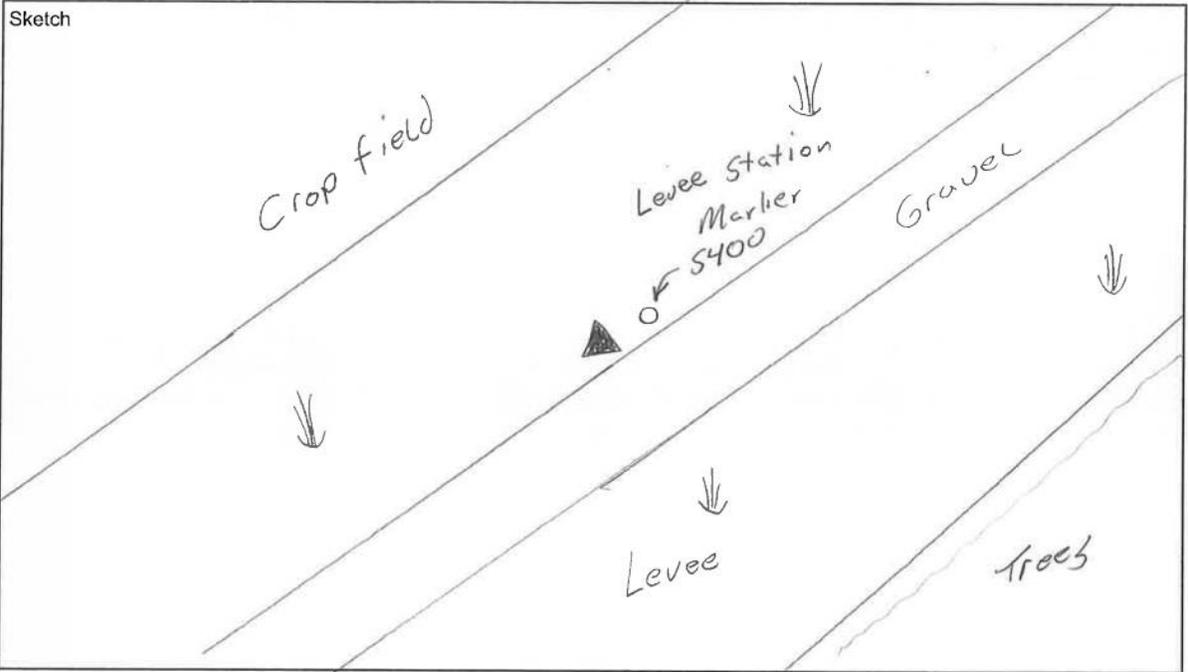


AP 22, DN3845, 3SW, HT\_MOD, 23FEB2016

76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>B 338</i>	PID <i>CP 2278</i>	Location <b>Mississippi</b>	Date <i>2/20/2016</i>
<input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TACS <input type="checkbox"/> OBM <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> Other <i>H M</i>	Observer <b>Bill Welbaum</b>	Organization <b>Woolpert Inc.</b>	



Disk Detail  Photos Available

Monument is:

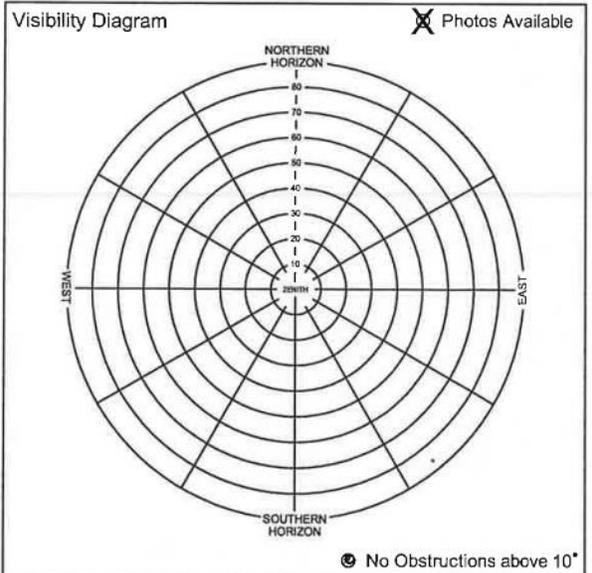
- A. Most stable
- B. Excellent
- C. Good
- D. Poor

Monument is:

- Recessed 5 cm
- Flush with ground
- Projecting \_\_\_ cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.



# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>B 338</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>36930510</i>	<input type="checkbox"/> RTK File
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Observer Full Name <b>Bill Welbaum</b>	Home Office <b>Dayton</b>
Observer email <b>William.Welbaum@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1326</b> Cell - <b>937.284.0258</b>	

Start Time <i>8 : 23</i> utc	Stop Time <i>6 : 48</i> utc	Calendar Date <i>2 / 20 / 2016</i>
<i>7 : 23</i> local	<i>5 : 48</i> local	

Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other: *H/M*

Station PID <i>CP 2278</i>	Sta. SSN	Sta. ID <i>B338</i>	Session	Julian Day <i>052</i>
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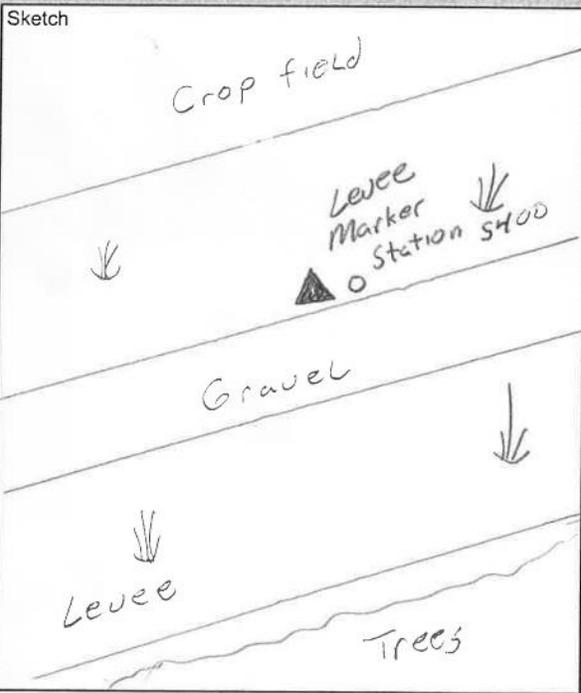
Latitude <i>N 32 ° 00 '59.47"</i>	Longitude <i>W 91 ° 08 '00.93"</i>
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Antenna Ht. (before; include add. offsets) <i>2.00 m 6.562</i>	E-Height <i>13.534 SFT</i>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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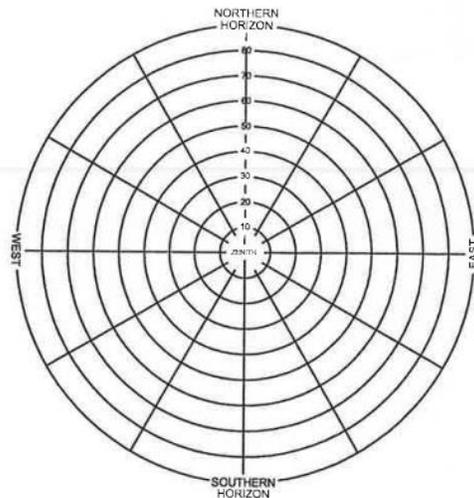
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input type="checkbox"/> Bi-pod
---

Receiver P/N <i>R8 Mod 2</i> S/N <i>3693</i>	Antenna P/N <i>R8 Mod 2</i> S/N <i>3693</i>
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Location Description / Comments

Visibility Diagram  Photos Available



No Obstructions above 10°

Setting Type <input checked="" type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size
Stamping <i>B338 1979</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>NGS</i>
Photo Ctrl Target Type <i>N/A</i>	

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>B 338</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>36930520</b>	<input type="checkbox"/> RTK File
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Observer Full Name <b>Bill Welbaum</b>	Home Office <b>Dayton</b>
Observer email <b>William.Welbaum@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1326</b> Cell - <b>937 . 284 . 0258</b>	

Start Time <b>8 : 23</b> utc <b>7 : 23</b> local	Stop Time <b>8 : 01</b> utc <b>7 : 01</b> local	Calendar Date <b>2 / 21 / 2016</b>
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Station Classification  
 EBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID <b>CP227g</b>	Sta. SSN	Sta. ID <b>B 338</b>	Session	Julian Day <b>052</b>
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Latitude <b>N 32 ° 00 ' 59.97 "</b>	Longitude <b>W 91 ° 08 ' 00.93 "</b>
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Antenna Ht. (before; include acid. offsets) <b>2.00m 6.562</b>	E-Height <b>13.53</b>
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Ant. Ht. Measured To  Bottom of Ant. Mt.  Other: Ground Plane  Yes  No

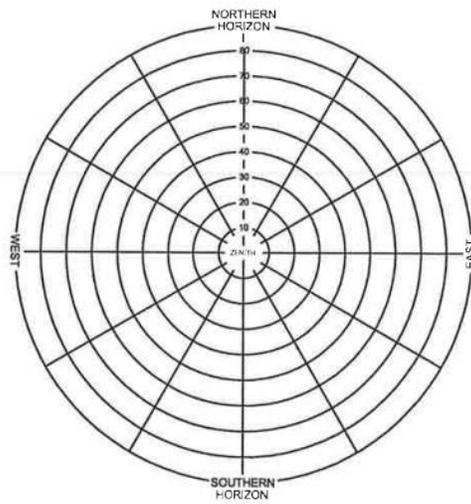
Tripod Type  
 Fixed-Ht.  Slip-leg  Fixed mount  Bi-pod

Receiver P/N <b>R8 Mod 2</b> S/N <b>3693</b>	Antenna P/N <b>R8 Mod 2</b> S/N <b>3693</b>
--	---

Sketch  
*See previous for Sketch*

Location Description / Comments

Visibility Diagram  Photos Available



Setting Type <input checked="" type="radio"/> Deep Rod <input type="radio"/> Concrete Mon. <input type="radio"/> Fixed Mt.	Monument Size
Stamping <b>B 338</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>NGS</b>
Photo Ctrl Target Type <b>N/A</b>	

No Obstructions above 10°

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>B 338</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>36930530</i>	<input type="checkbox"/> RTK File
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Observer Full Name <b>Bill Welbaum</b>	Home Office <b>Dayton</b>
Observer email <b>William.Welbaum@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1326</b> Cell - <b>937 . 284 . 0258</b>	

Start Time <i>8 : 43</i> utc <i>7 : 43</i> local	Stop Time <i>7 : 17</i> utc <i>6 : 17</i> local	Calendar Date <i>2/22/2016</i>
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Station Classification  
 EBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other: *H/M*

Station PID <i>CP2278</i>	Sta. SSN	Sta. ID <i>13338</i>	Session	Julian Day <i>053</i>
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Latitude <i>N 32 ° 00 ' 59.87 "</i>	Longitude <i>W 91 ° 08 ' 00.83 "</i>
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Antenna Ht. (before; include add. offsets) <i>2.00 M/G: 562</i>	E-Height <i>13.53</i>
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Ant. Ht. Measured To  Bottom of Ant. Mt.  Other:  Yes  No

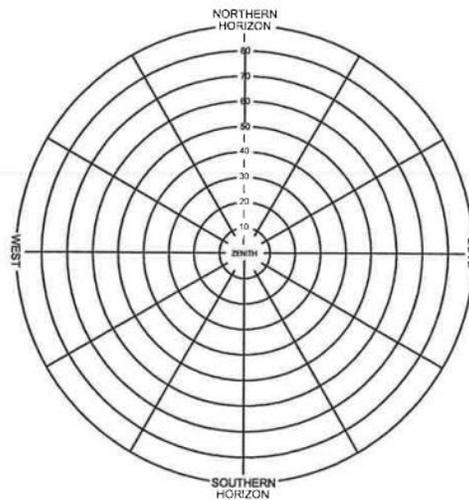
Tripod Type  
 Fixed-Ht.  Slip-leg  Fixed mount  Bi-pod

Receiver P/N <i>R8 Mod 2</i> S/N <i>3693</i>	Antenna P/N <i>R8 Mod 2</i> S/N <i>3693</i>
--	---

Sketch  
*SEE PREVIOUS*

Location Description / Comments  
*Y*

Visibility Diagram  Photos Available



No Obstructions above 10'

Setting Type <input checked="" type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size
Stamping <i>B 338 1979</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>NGS</i>
Photo Ctrl Target Type <i>N/A</i>	



B 338, CP2278, 1, HT\_MOD, 20FEB2016



B 338, CP2278, 2, HT\_MOD, 20FEB2016



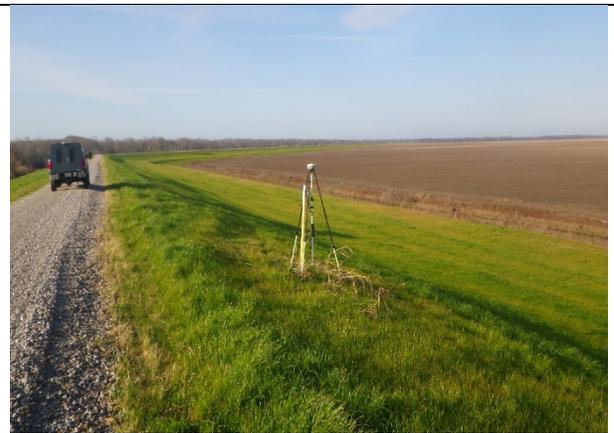
B 338, CP2278, 3E, HT\_MOD, 20FEB2016



B 338, CP2278, 3N, HT\_MOD, 20FEB2016



B 338, CP2278, 3S, HT\_MOD, 20FEB2016

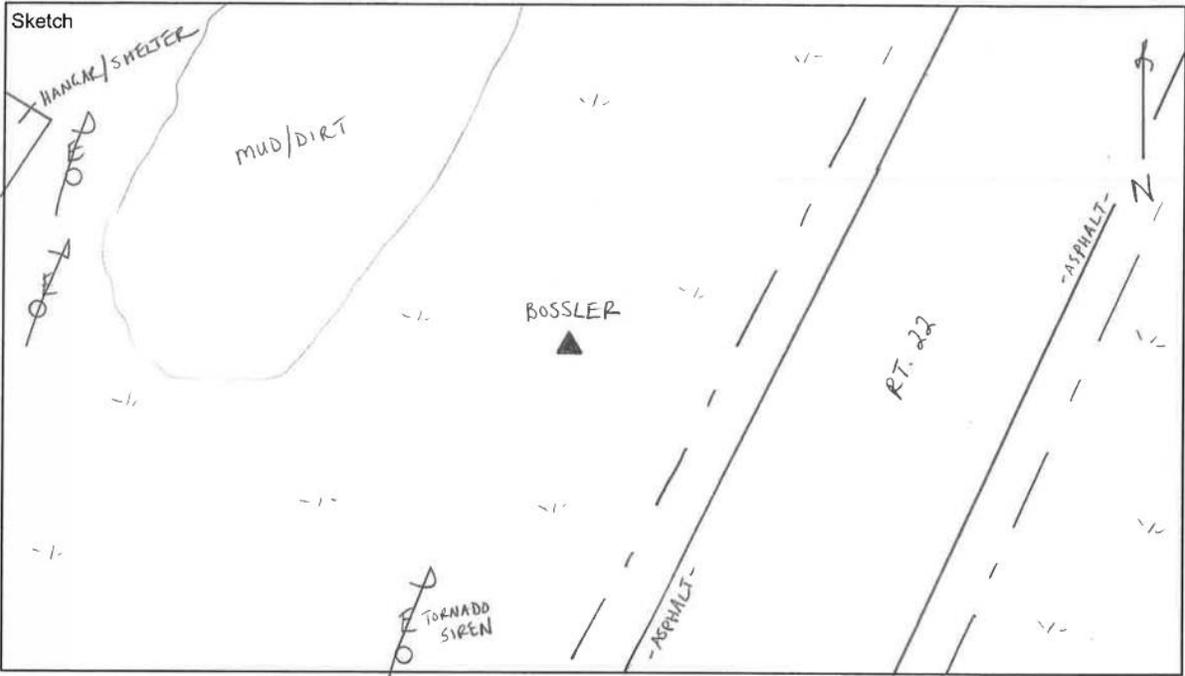


B 338, CP2278, 3W, HT\_MOD, 20FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>BOSSLER</b>	PID <b>CP3169</b>	Location <b>Mississippi</b>	Date <b>02 / 24 / 2016</b>
<input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TACS <input type="checkbox"/> OBM <input type="checkbox"/> FBN <input checked="" type="checkbox"/> CBN <input checked="" type="checkbox"/> Other <u>HT MOD</u>		Observer <b>Zach Leesemann</b>	Organization <b>Woolpert Inc.</b>



**Disk Detail**  Photos Available

Monument is:

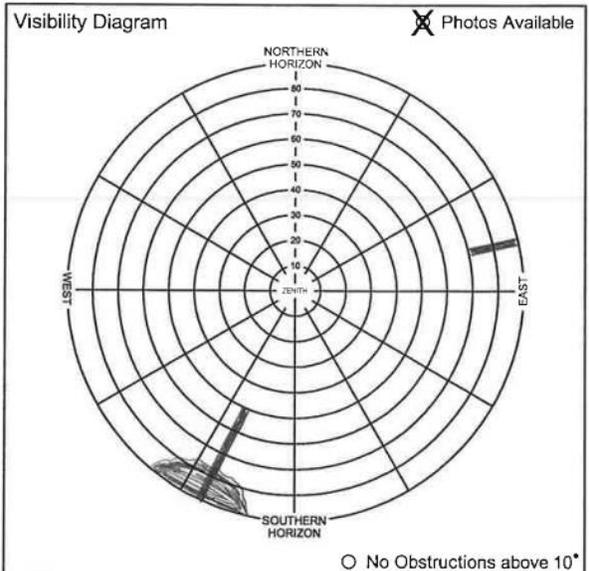
- A. Most stable
- B. Excellent
- C. Good
- D. Poor

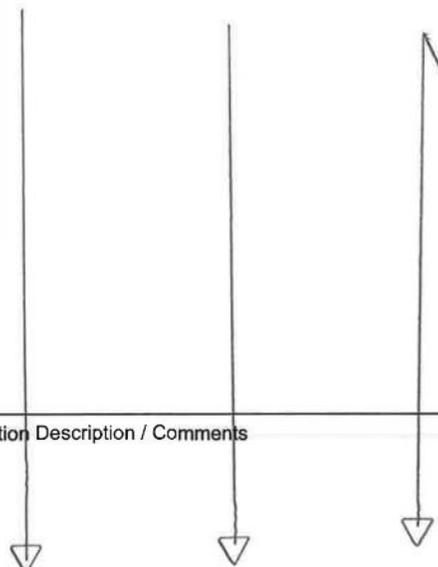
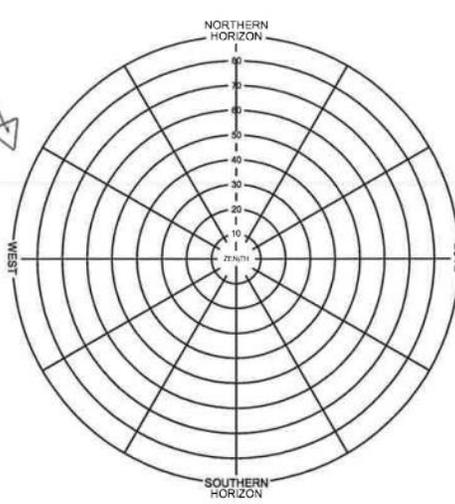
Monument is:

- Recessed \_\_\_cm
- Flush with ground
- Projecting \_\_\_cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.



76268 Mississippi NRCS 2016 LiDAR GPS Control Logs <span style="float: right;"></span>						
Station Designation <i>BOSSELER</i>		Airport LID & State <b>Mississippi</b>		Data File Name <i>76268-02242016-ZEL.job</i> <input checked="" type="checkbox"/> RTK File		
Observer Full Name <b>Zach Leesemann</b>		Home Office <b>Dayton</b>		Start Time : : utc <i>12 : 31</i> local		
Observer email <b>Zach.Leesemann@Woolpert.com</b>				Stop Time : : utc <i>12 : 37</i> local		
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>		Calendar Date <i>02 / 24 / 2016</i>				
Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:						
Station PID <i>CP3169</i>		Sta. SSN —	Sta. ID <i>BOSSELER</i>	Session —		
Latitude <b>N 32 ° 30 ' 51.93 "</b>		Longitude <b>W 90 ° 20 ' 50.48 "</b>				
Antenna Ht. (before; include add. offsets) <i>2.00 m</i>		E-Height <i>130.648 sft</i>				
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:		Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod						
Receiver R8-3 P/N 67250-66 S/N 5211484428		Antenna R8-3 P/N 67250-66 S/N 5211484428				
Visibility Diagram <input checked="" type="checkbox"/> Photos Available						
Sketch  <div style="text-align: center;"><i>SEE S.R.L.</i></div> 						
					Location Description / Comments	
					Setting Type <input type="checkbox"/> Deep Rod <input checked="" type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	
Monument Size <i>~ 3.5"</i>		Stamping <i>BOSSELER 1983</i>				
Inscription (i.e. NGS, Woolpt, etc.) <i>NGS</i>		Photo Ctrl Target Type <i>N/A</i>				
○ No Obstructions above 10°						



BOSSLER, CP3169, 1, CBN, HT\_MOD, 24FEB2016



BOSSLER, CP3169, 2, CBN, HT\_MOD, 24FEB2016



BOSSLER, CP3169, 3E, CBN, HT\_MOD, 24FEB2016



BOSSLER, CP3169, 3N, CBN, HT\_MOD, 24FEB2016



BOSSLER, CP3169, 3S, CBN, HT\_MOD, 24FEB2016

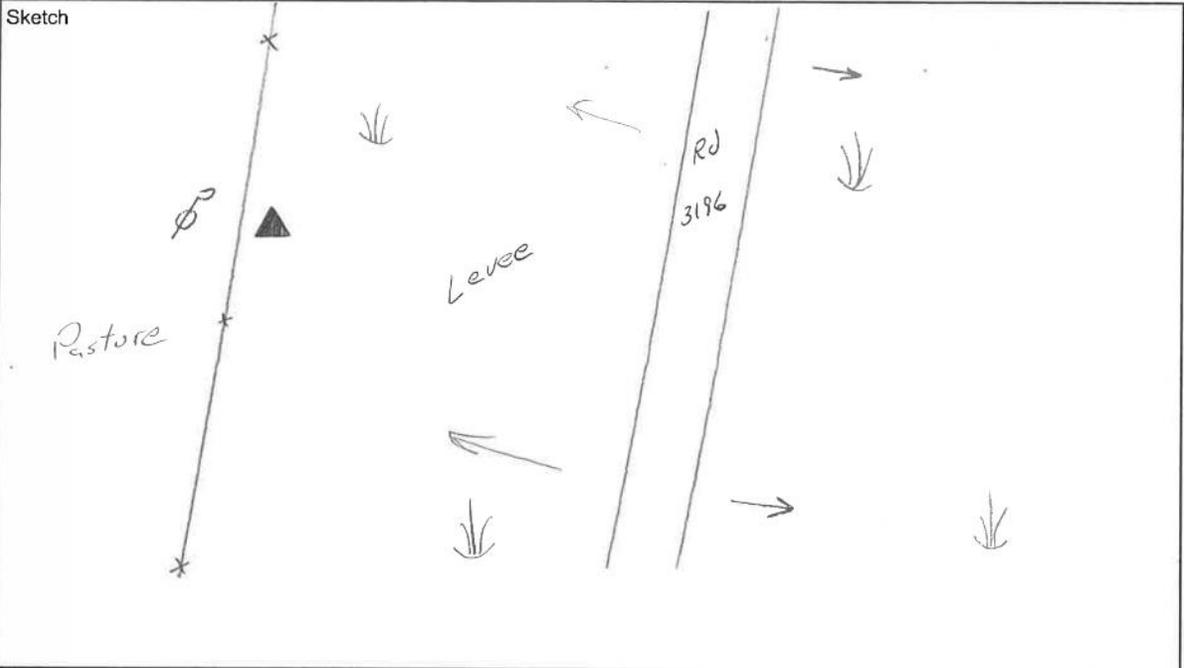


BOSSLER, CP3169, 3W, CBN, HT\_MOD, 24FEB2016

76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>D 337</i>	PID <i>BW1848</i>	Location <b>Mississippi</b>	Date <i>2 / 18 / 2016</i>
<input type="radio"/> PACS <input type="radio"/> SACS <input type="radio"/> TACS <input type="radio"/> BM <input type="radio"/> FBN <input type="radio"/> CBN <input checked="" type="radio"/> Other <i>H/M</i>	Observer <b>Bill Welbaum</b>	Organization <b>Woolpert Inc.</b>	



Disk Detail  Photos Available

Monument is:

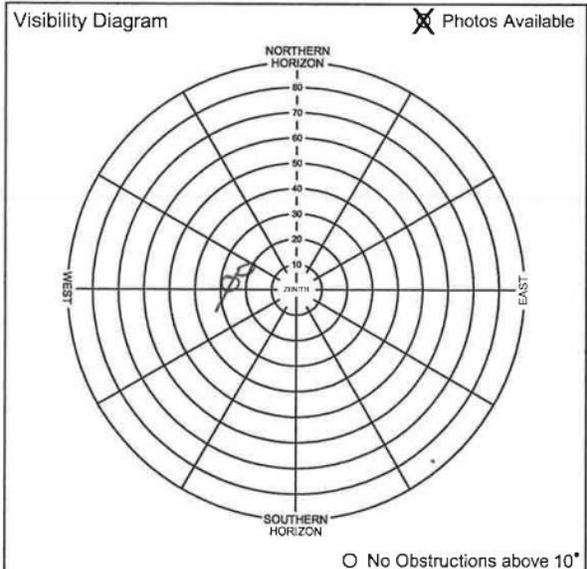
- A. Most stable
- B. Excellent
- C. Good
- D. Poor

Monument is:

- Recessed 5 cm
- Flush with ground
- Projecting \_\_\_\_ cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.



# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>D 337</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>76268BW02182016</i>
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Observer Full Name <b>Bill Welbaum</b>	Home Office <b>Dayton</b>
Observer email <b>William.Welbaum@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1326</b> Cell - <b>937.284.0258</b>	

Start Time <i>9 : 49</i> utc <i>8 : 49</i> local	Stop Time <i>9 : 52</i> utc <i>8 : 52</i> local	Calendar Date <i>2/18/2016</i>
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Station Classification

FBN    CBN    BM    PACS    SACS    TSM  
 EoR    NAVAID    Photo Control    Other:

Station PID <i>BW1848</i>	Sta. SSN	Sta. ID <i>D337</i>	Session <i>N/A</i>	Julian Day <i>049</i>
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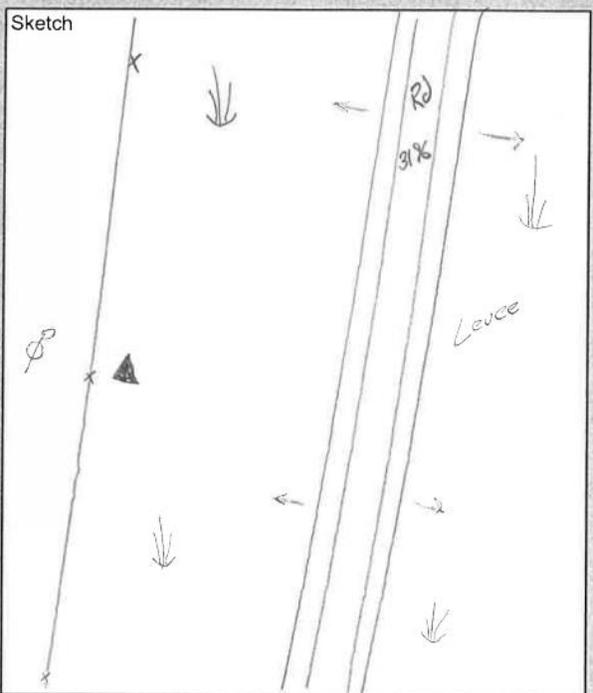
Latitude <i>N 31 ° 37 '34.63</i>	Longitude <i>"W 91 ° 31 '49.34 "</i>
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Antenna Ht. (before, include add. offsets) <i>2.00 M 6.562</i>	E-Height <i>-17.305 sft</i>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input type="checkbox"/> No
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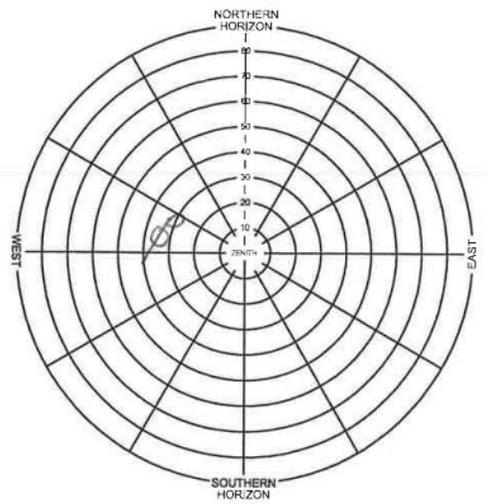
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input type="checkbox"/> Bi-pod
---

Receiver P/N <i>R8 Mod 3</i> S/N <i>8828</i>	Antenna P/N <i>R8 mod 3</i> S/N <i>8828</i>
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Location Description / Comments

Visibility Diagram  Photos Available



No Obstructions above 10'

Setting Type <i>w/tdisk</i>	Monument Size
<input checked="" type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	
Stamping <i>D 337 1979</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>NGS</i>
Photo Ctrl Target Type <i>N/A</i>	



D 337, BW1848, 1, HT\_MOD, 18FEB2016



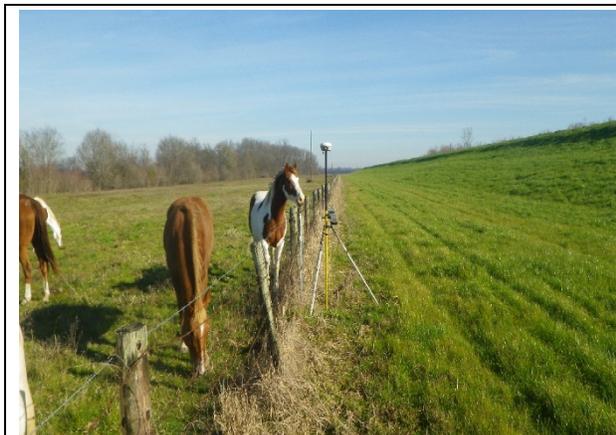
D 337, BW1848, 2, HT\_MOD, 18FEB2016



D 337, BW1848, 3S, HT\_MOD, 18FEB2016



D 337, BW1848, 3W, HT\_MOD, 18FEB2016



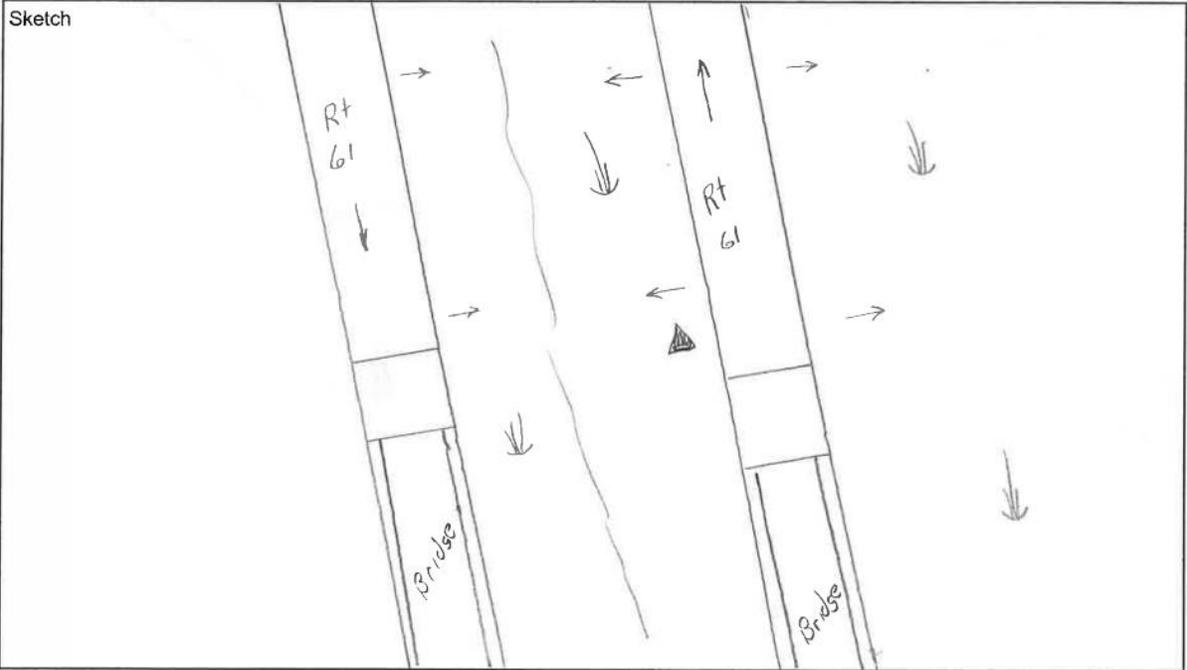
D 337, BW1884, 3N, HT\_MOD, 18FEB2016

N/A

76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>D 712</b>	PID <b>DN 4078</b>	Location <b>Mississippi</b>	Date <b>2/16/2016</b>
<input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TACS <input type="checkbox"/> QBM <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> Other <i>Height Mod</i>	Observer <b>Bill Welbaum</b>	Organization <b>Woolpert Inc.</b>	



Disk Detail  Photos Available

Monument is:

- A. Most stable
- B. Excellent
- C. Good
- D. Poor

Monument is:

- Recessed \_\_\_cm
- Flush with ground
- Projecting \_\_\_cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.

Visibility Diagram  Photos Available

No Obstructions above 10°

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>D712</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>36930470</i> <i>36930471</i>	<input type="checkbox"/> RTK File
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Observer Full Name <b>Bill Welbaum</b>	Home Office <b>Dayton</b>
Observer email <b>William.Welbaum@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1326</b> Cell - <b>937.284.0258</b>	

Start Time <i>2 :55</i> utc <i>1 :55</i> local	Stop Time <i>6 :55</i> utc <i>5 :55</i> local	Calendar Date <i>2 /16 /2016</i>
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID <i>ON 4078</i>	Sta. SSN	Sta. ID <i>D712</i>	Session <i>1,2</i>	Julian Day <i>047</i>
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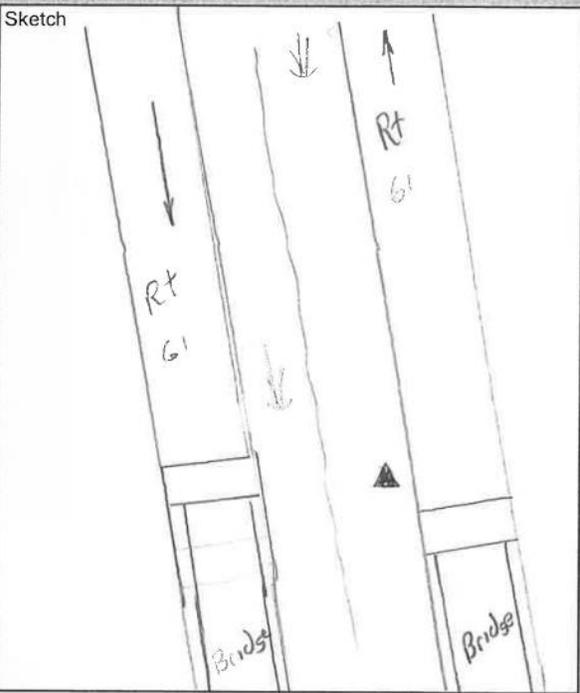
Latitude <i>N 31 °13 '46.72 "</i>	Longitude <i>W 91 °17 '49.56 "</i>
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Antenna Ht. (before; include add. offsets) <i>2.00m 6.562</i>	E-Height <i>39.117 5ft</i>
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Ant. Ht. Measured To <input checked="" type="radio"/> Bottom of Ant. Mt. <input type="radio"/> Other:	Ground Plane <input type="radio"/> Yes <input checked="" type="radio"/> No
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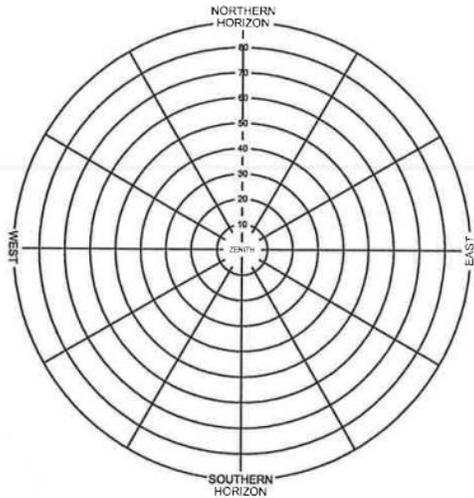
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input type="checkbox"/> Bi-pod
---

Receiver P/N <i>R8 Mod 2</i>	Antenna P/N <i>R8 Mod 2</i>
S/N	S/N



Location Description / Comments

Visibility Diagram  Photos Available



Setting Type <input type="checkbox"/> Deep Rod <input checked="" type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size
Stamping <i>D712 2008</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>Miss Dept transp.</i>
Photo Ctrl Target Type <i>N/A</i>	

No Obstructions above 10'

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>D 712</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>36930480</i>	<input type="checkbox"/> RTK File
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Observer Full Name <b>Bill Welbaum</b>	Home Office <b>Dayton</b>
Observer email <b>William.Welbaum@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1326</b> Cell - <b>937.284.0258</b>	

Start Time <i>8 : 38</i> utc	Stop Time <i>6 : 53</i> utc	Calendar Date <i>2 / 17 / 2016</i>
<i>7 : 38</i> local	<i>5 : 53</i> local	

Station Classification  
 FBN    CBN    BM    PACS    SACS    TSM  
 EoR    NAVAID    Photo Control    Other:

Station PID <i>DN4078</i>	Sta. SSN	Sta. ID <i>D712</i>	Session <i>1</i>	Julian Day <i>048</i>
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Latitude <i>N 31 ° 13 '46.76"</i>	Longitude <i>W 91 ° 17 '49.60 "</i>
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Antenna Ht. (before; include add. offsets) <i>2.00 M 6.562</i>	E-Height <i>34.02</i>
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Ant. Ht. Measured To  
 Bottom of Ant. Mt.    Other:      Ground Plane  
 Yes    No

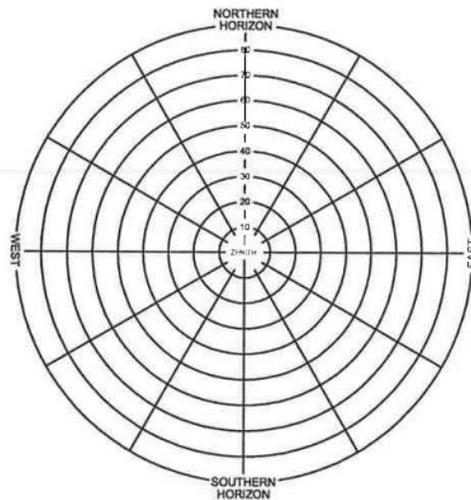
Tripod Type  
 Fixed-Ht.    Slip-leg    Fixed mount    Bi-pod

Receiver P/N <i>R8 Mod 2</i>	Antenna P/N <i>R8 Mod 2</i>
S/N	S/N

Sketch  
*See previous observation for sketch*

Location Description / Comments

Visibility Diagram       Photos Available



No Obstructions above 10'

Setting Type <input type="checkbox"/> Deep Rod <input checked="" type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size
Stamping <i>D 712 2009</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>Miss. Dept Trans.</i>
Photo Ctrl Target Type <i>N/A</i>	



D 712, DN4078, 1, HT\_MOD, 16FEB2012



D 712, DN4078, 2, HT\_MOD, 16FEB2012



D 712, DN4078, 3E, HT\_MOD, 16FEB2012



D 712, DN4078, 3N, HT\_MOD, 16FEB2012



D 712, DN4078, 3S, HT\_MOD, 16FEB2012

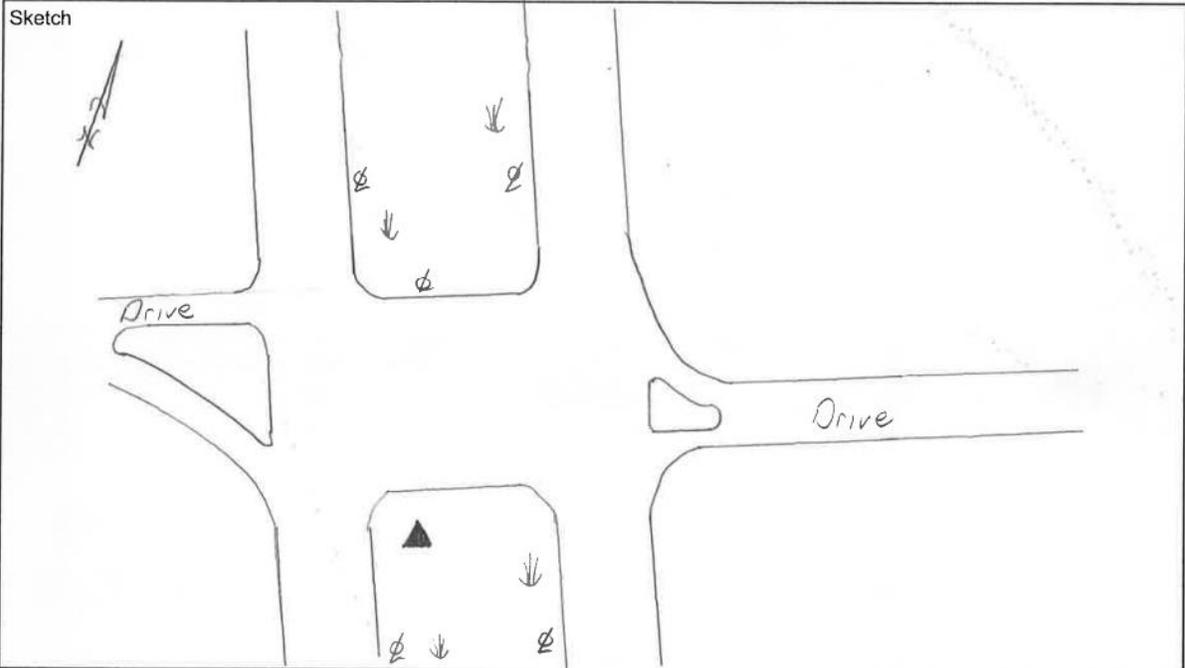


D 712, DN4078, 3W, HT\_MOD, 16FEB2012

76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>D 717</i>	PID <i>DN 4083</i>	Location <b>Mississippi</b>	Date <i>2 / 19 / 2016</i>
<input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TACS <input type="checkbox"/> BLM <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> Other <i>H/M</i>	Observer <b>Bill Welbaum</b>	Organization <b>Woolpert Inc.</b>	



Disk Detail  Photos Available

Monument is:

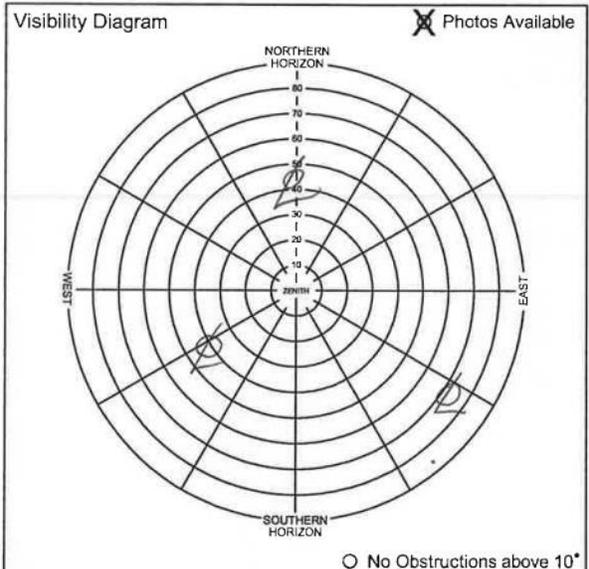
- A. Most stable
- B. Excellent
- C. Good
- D. Poor

Monument is:

- Recessed \_\_\_ cm
- Flush with ground
- Projecting \_\_\_ cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.



# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>D 717</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>76268BW02192016</i>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Bill Welbaum</b>	Home Office <b>Dayton</b>
Observer email <b>William.Welbaum@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1326</b> Cell - <b>937.284.0258</b>	

Start Time <i>10 : 51</i> utc <i>9 : 51</i> local	Stop Time <i>10 : 54</i> utc <i>9 : 54</i> local	Calendar Date <i>2/19/2016</i>
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Station Classification				
<input type="checkbox"/> FBN	<input type="checkbox"/> CBN	<input type="checkbox"/> BM	<input type="checkbox"/> PACS	<input type="checkbox"/> SACS
<input type="checkbox"/> TSM	<input type="checkbox"/> EoR	<input type="checkbox"/> NAVAID	<input type="checkbox"/> Photo Control	<input checked="" type="checkbox"/> Other:

Station PID <i>DN4083</i>	Sta. SSN	Sta. ID <i>D717</i>	Session	Julian Day <i>050</i>
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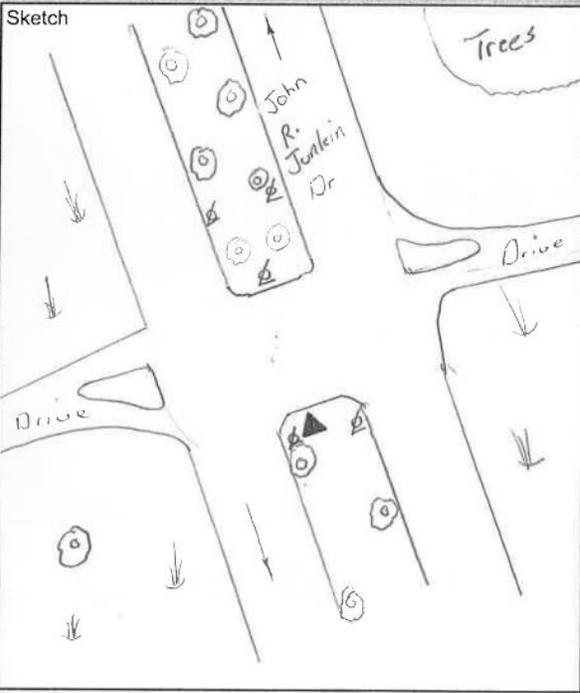
Latitude <i>N 31 ° 33 '13.74</i>	Longitude <i>"W 91 ° 24 '51.09 "</i>
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Antenna Ht. (before; include add. offsets) <i>2.00M 6.5625FT</i>	E-Height <i>87.825</i>
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Ant. Ht. Measured To <input checked="" type="radio"/> Bottom of Ant. Mt. <input type="radio"/> Other:	Ground Plane <input type="radio"/> Yes <input checked="" type="radio"/> No
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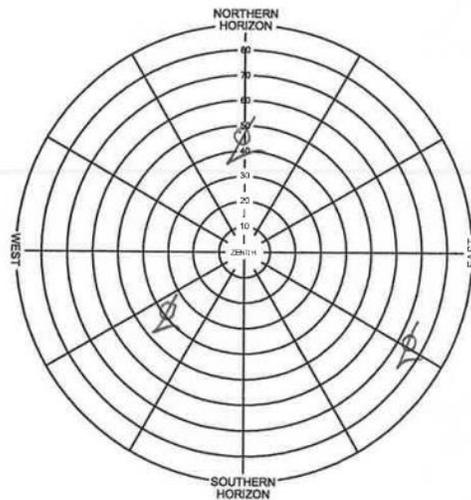
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input type="checkbox"/> Bi-pod
---

Receiver P/N <i>R8 Mod 3</i> S/N <i>8828</i>	Antenna P/N <i>R8 Mod 3</i> S/N <i>8828</i>
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Location Description / Comments

Visibility Diagram	<input checked="" type="checkbox"/> Photos Available
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No Obstructions above 10'

Setting Type <input type="checkbox"/> Deep Rod <input checked="" type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size
Stamping <i>D 717 2008</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>Miss Dept of Trans</i>
Photo Ctrl Target Type <i>N/A</i>	



D 717, DN4083, 1, HT\_MOD, 19FEB2016



D 717, DN4083, 2, HT\_MOD, 19FEB2016



D 717, DN4083, 3E, HT\_MOD, 19FEB2016



D 717, DN4083, 3N, HT\_MOD, 19FEB2016



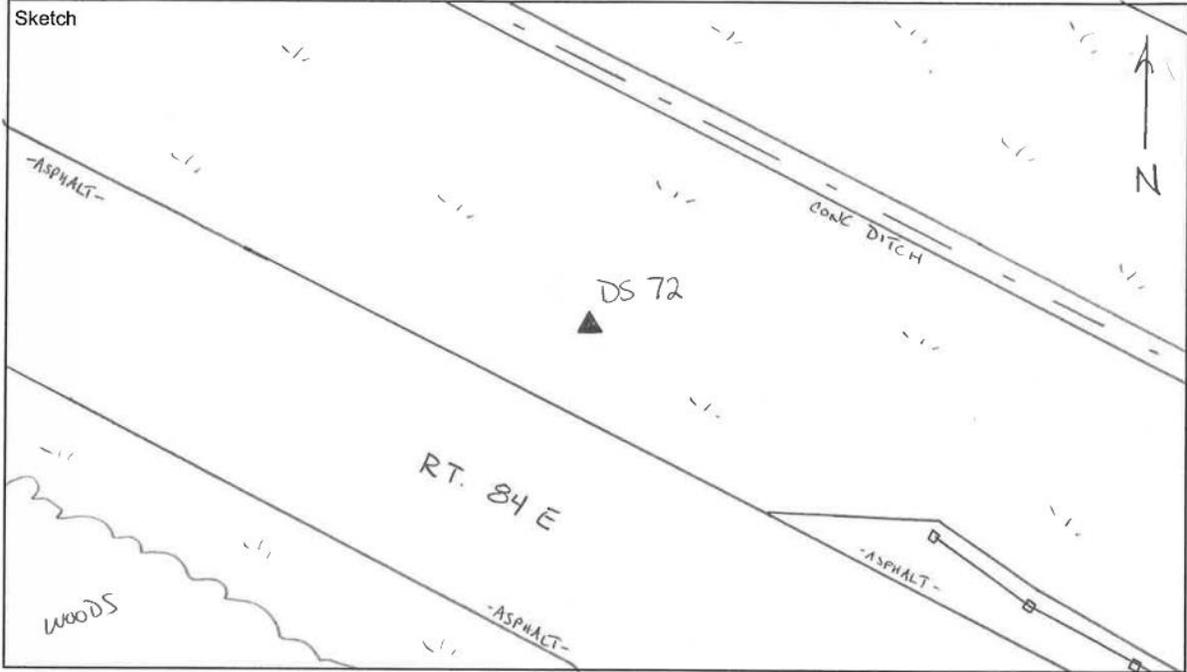
D 717, DN4083, 3S, HT\_MOD, 19FEB2016



D 717, DN4083, 3W, HT\_MOD, 19FEB2016

76268 Mississippi NRCS 2016 LiDAR GPS Control Logs 

Station Designation <b>DS 72</b>	PID <b>DN4068</b>	Location <b>Mississippi</b>	Date <b>02/18/2016</b>
<input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TACS <input type="checkbox"/> OBM <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> Other <u>HT MOD</u>		Observer <b>Zach Leesemann</b>	Organization <b>Woolpert Inc.</b>



Disk Detail  Photos Available

Monument is:

- A. Most stable
- B. Excellent
- C. Good
- D. Poor

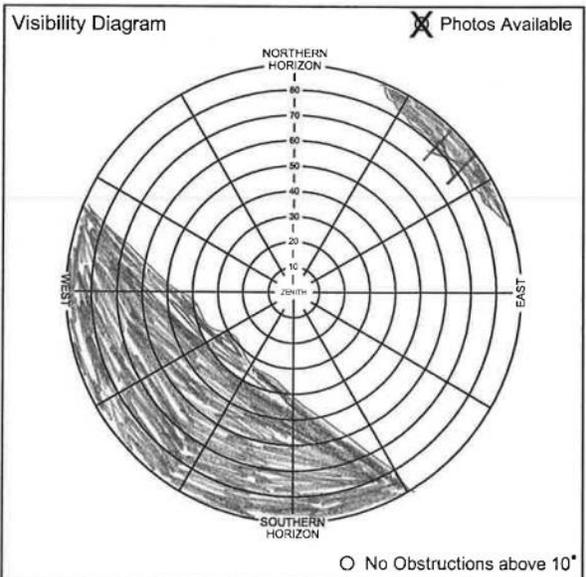


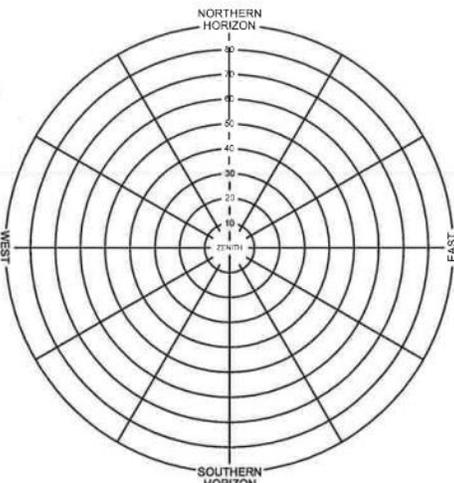
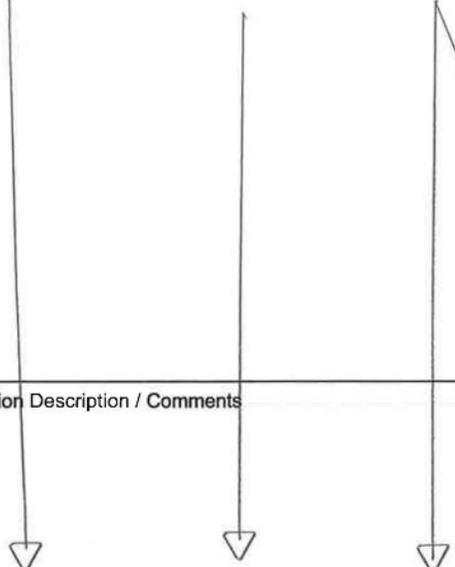
Monument is:

- Recessed 5 cm
- Flush with ground
- Projecting \_\_\_ cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.



76268 Mississippi NRCS 2016 LiDAR GPS Control Logs <span style="float: right;"></span>				
Station Designation <b>DS 72</b>		Airport LID & State <b>Mississippi</b>		Data File Name <b>76268-02182016-ZRL.job</b>
Observer Full Name <b>Zach Leeseemann</b>		Home Office <b>Dayton</b>		Start Time : : utc <b>14 : 50</b> local
Observer email <b>Zach.Leeemann@Woolpert.com</b>				Stop Time : : utc <b>14 : 59</b> local
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>		Calendar Date <b>02/18/2016</b>		
Station Classification <input type="radio"/> FBN <input type="radio"/> CBN <input type="radio"/> BM <input type="radio"/> PACS <input type="radio"/> SACS <input type="radio"/> TSM <input type="radio"/> EoR <input type="radio"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input checked="" type="radio"/> Other: HT MOD				
Station PID <b>DN4068</b>		Sta. SSN -	Sta. ID <b>DS 72</b>	Session -
Latitude <b>N 31 ° 30 ' 56.93 "</b>		Longitude <b>W 90 ° 38 ' 57.04 "</b>		
Antenna Ht. (before; include add. offsets) <b>2.00 m</b>		E-Height <b>229.114 sft</b>		
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="radio"/> Other:				Ground Plane <input type="radio"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="radio"/> Slip-leg <input type="radio"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod				
Receiver R8-3 P/N 67250-66 S/N 5211484428		Antenna R8-3 P/N 67250-66 S/N 5211484428		
Visibility Diagram				<input checked="" type="checkbox"/> Photos Available
				
○ No Obstructions above 10°				
Sketch  <p style="text-align: center;">SEE S.R.L.</p> 				
Location Description / Comments				
Setting Type <input type="radio"/> Deep Rod <input checked="" type="radio"/> Concrete Mon. <input type="radio"/> Fixed Mt.		Monument Size <b>~ 3.5"</b>		
Stamping <b>DS 72 Job</b>		Inscription (i.e. NGS, Woolpt, etc.) <b>MS DOT</b>		
Photo Ctrl Target Type <b>N/A</b>				



DS 72, DN4068, 1, HT\_MOD, 18FEB2016



DS 72, DN4068, 2, HT\_MOD, 18FEB2016



DS 72, DN4068, 3NE, HT\_MOD, 18FEB2016



DS 72, DN4068, 3NW, HT\_MOD, 18FEB2016



DS 72, DN4068, 3SE, HT\_MOD, 18FEB2016

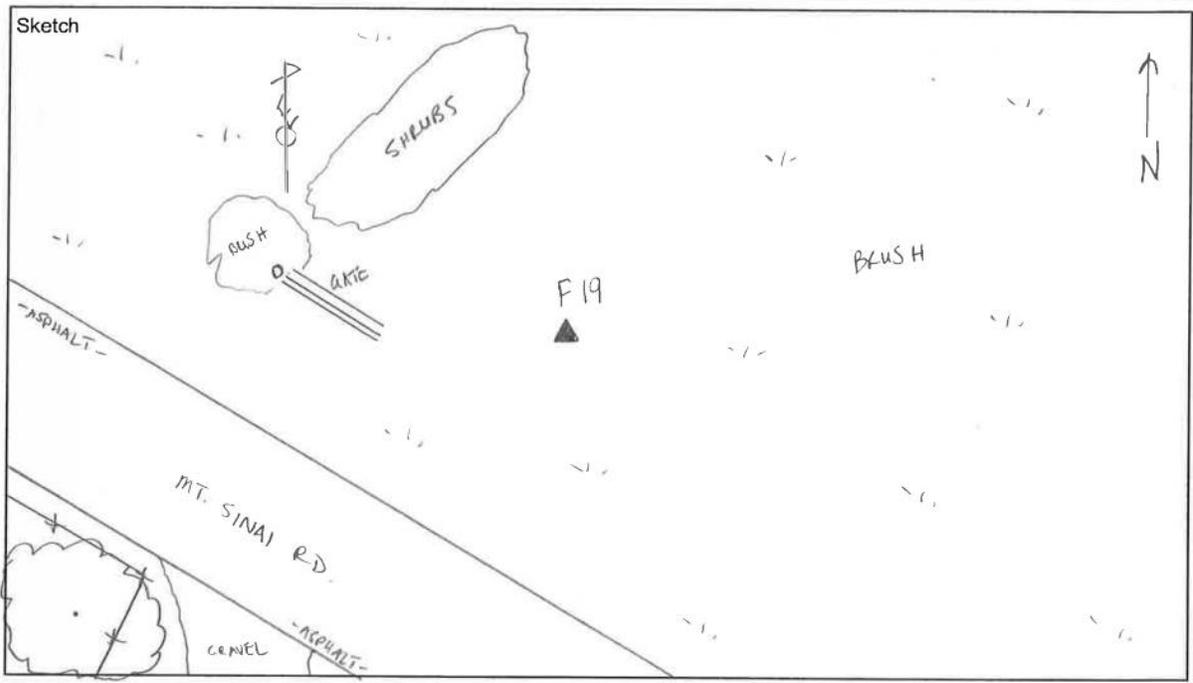


DS 72, DN4068, 3SW, HT\_MOD, 18FEB2016

**76268 Mississippi NRCS 2016 LiDAR GPS Control Logs**



Station Designation <b>F 19</b>	PID <b>BW0395</b>	Location <b>Mississippi</b>	Date <b>02/18/2016</b>
<input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TACS <input type="checkbox"/> BM <input type="checkbox"/> FBN <input checked="" type="checkbox"/> CBN <input checked="" type="checkbox"/> Other <u>HT MOD</u>		Observer <b>Zach Leeseemann</b>	Organization <b>Woolpert Inc.</b>



**Disk Detail**       Photos Available

Monument is:

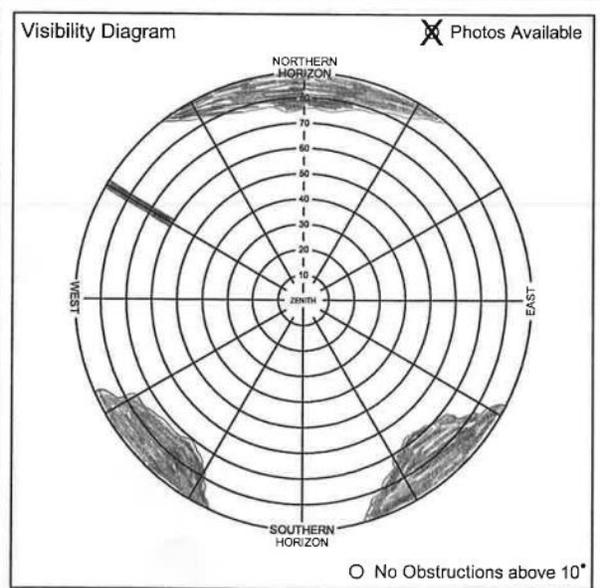
- A. Most stable
- B. Excellent
- C. Good
- D. Poor

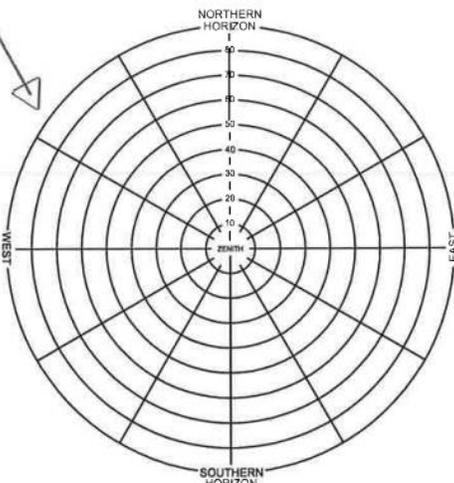
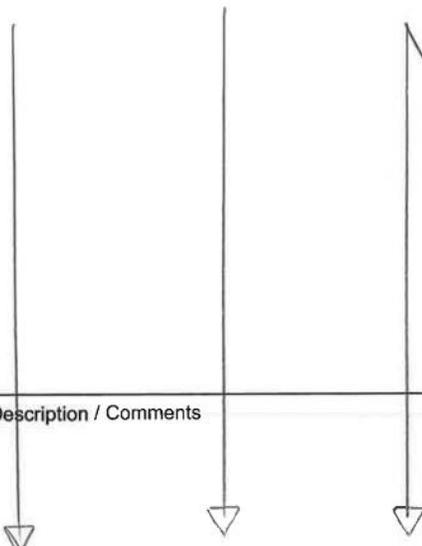
Monument is:

- Recessed \_\_\_ cm
- Flush with ground
- Projecting 40 cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.



76268 Mississippi NRCS 2016 LiDAR GPS Control Logs <span style="float: right;"></span>				
Station Designation <b>F 19</b>		Airport LID & State <b>Mississippi</b>		Data File Name <b>76268-02162016-221-jobs</b>
Observer Full Name <b>Zach Leeseemann</b>		Home Office <b>Dayton</b>		Start Time : : utc <b>8 : 27</b> local
Observer email <b>Zach.Leeemann@Woolpert.com</b>				Stop Time : : utc <b>8 : 34</b> local
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>		Calendar Date <b>02 / 16 / 2016</b>		
Station Classification <input type="radio"/> FBN <input checked="" type="radio"/> CBN <input type="radio"/> BM <input type="radio"/> PACS <input type="radio"/> SACS <input type="radio"/> TSM <input type="radio"/> EoR <input type="radio"/> NAVAID <input checked="" type="radio"/> Photo Control <input type="radio"/> Other: <b>HT MOD</b>				
Station PID <b>Bw039S</b>		Sta. SSN -	Sta. ID <b>F 19</b>	Session -
Latitude <b>N 31 ° 10 '21.71 "</b>		Longitude <b>W 90 ° 44 '44.93 "</b>		
Antenna Ht. (before; include add. offsets) <b>2.00 m</b>		E-Height <b>325.482 sft</b>		
Ant. Ht. Measured To <input checked="" type="radio"/> Bottom of Ant. Mt. <input type="radio"/> Other:		Ground Plane <input type="radio"/> Yes <input checked="" type="radio"/> No		
Tripod Type <input checked="" type="radio"/> Fixed-Ht. <input type="radio"/> Slip-leg <input type="radio"/> Fixed mount <input checked="" type="radio"/> Bi-pod				
Receiver R8-3 P/N 67250-66 S/N 5211484428		Antenna R8-3 P/N 67250-66 S/N 5211484428		
Visibility Diagram <span style="float: right;"><input checked="" type="checkbox"/> Photos Available</span>				
				
○ No Obstructions above 10°				
Setting Type <input type="radio"/> Deep Rod <input checked="" type="radio"/> Concrete Mon. <input type="radio"/> Fixed Mt.		Monument Size <b>≈ 3.5 "</b>		
Stamping <b>F 19 1954</b>		Inscription (i.e. NGS, Woolpt, etc.) <b>CGS</b>		
Photo Ctrl Target Type <b>N/A</b>				
Sketch  <p style="text-align: center;">SEE S.R.L.</p> 				
Location Description / Comments				



F 19, BW0395, 1, CBN, HT\_MOD, 18FEB2016



F 19, BW0395, 2, CBN, HT\_MOD, 18FEB2016



F 19, BW0395, 3E, CBN, HT\_MOD, 18FEB2016



F 19, BW0395, 3N, CBN, HT\_MOD, 18FEB2016



F 19, BW0395, 3S, CBN, HT\_MOD, 18FEB2016

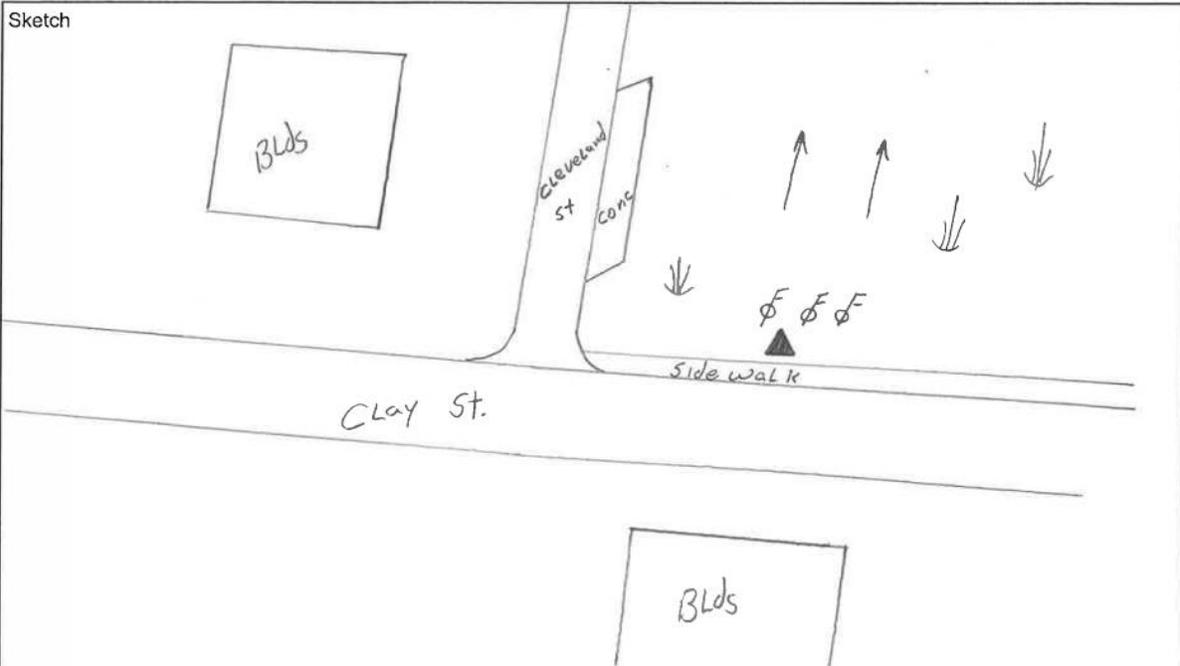


F 19, BW0395, 3W, CBN, HT\_MOD, 18FEB2016

76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>F 363</i>	PID <i>CP 3406</i>	Location <b>Mississippi</b>	Date <i>2/23/2016</i>
<input type="radio"/> PACS <input type="radio"/> SACS <input type="radio"/> TACS <input checked="" type="radio"/> BM <input type="radio"/> FBN <input type="radio"/> CBN <input type="radio"/> Other _____	Observer <b>Bill Welbaum</b>	Organization <b>Woolpert Inc.</b>	



Disk Detail  Photos Available

Monument is:

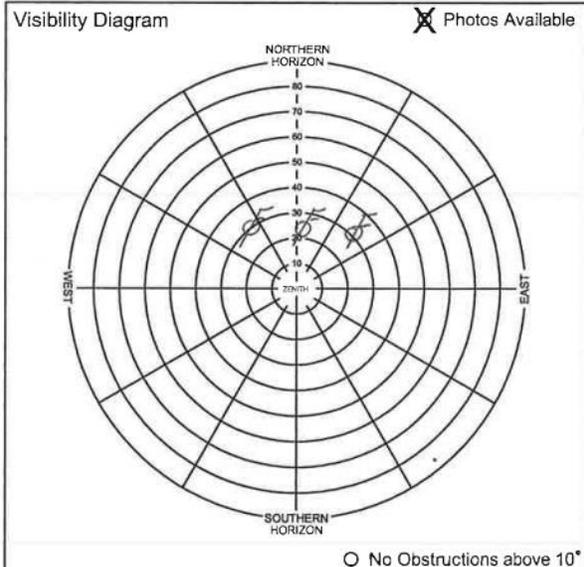
- A. Most stable
- B. Excellent
- C. Good
- D. Poor

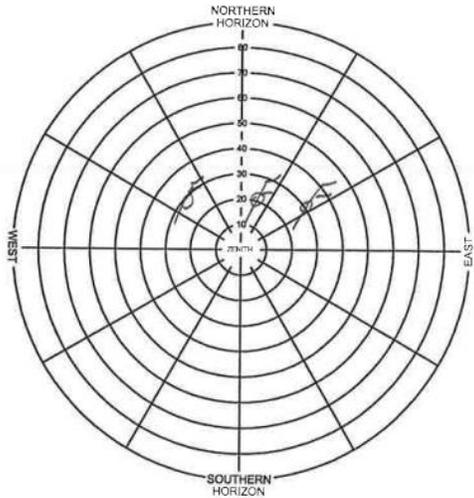
Monument is:

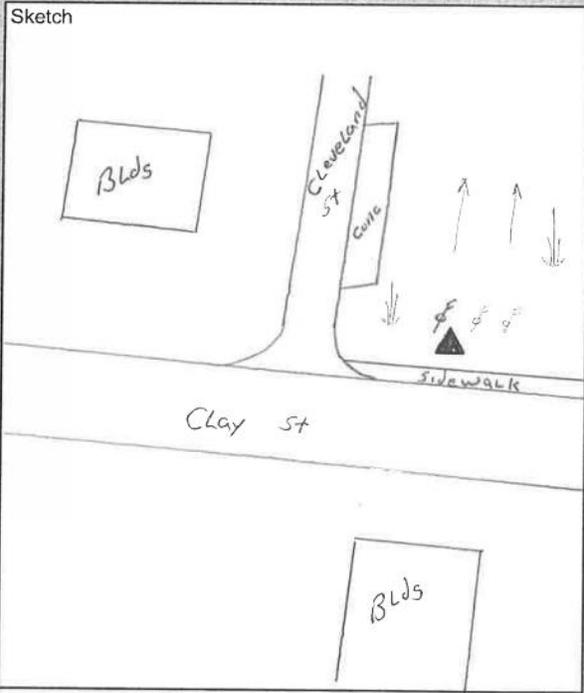
- Recessed \_\_\_\_\_ cm
- Flush with ground
- Projecting 4 cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.



<h2 style="margin: 0;">76268 Mississippi NRCS 2016 LiDAR GPS Control Logs</h2>			
Station Designation <i>F 363</i>		Airport LID & State <b>Mississippi</b>	
Observer Full Name <b>Bill Welbaum</b>		Home Office <b>Dayton</b>	
Observer email <b>William.Welbaum@Woolpert.com</b>			
Observer Phone Office - <b>937 . 531 . 1326</b> Cell - <b>937.284.0258</b>			
Start Time <i>6 :13</i> utc <i>5 :13</i> local		Stop Time <i>6 :18</i> utc <i>5 :18</i> local	
Calendar Date <i>2/23/2016</i>			
Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input type="checkbox"/> Photo Control <input type="checkbox"/> Other:			
Station PID <i>CP3406</i>		Sta. SSN <i>F363</i>	
Latitude <i>N 32 ° 20 '49.32 "</i>		Longitude <i>W 90 ° 51 '31.88 "</i>	
Antenna Ht. (before; include add. offsets) <i>2.00 m</i>		E-Height <i>6.562 ft</i>	
Ant. Ht. Measured To <input checked="" type="radio"/> Bottom of Ant. Mt. <input type="radio"/> Other:		Ground Plane <input type="radio"/> Yes <input checked="" type="radio"/> No	
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input type="checkbox"/> Bi-pod			
Receiver <i>P/N R8 Mod 2</i> <i>S/N 8828</i>		Antenna <i>P/N R8 Mod 2</i> <i>S/N 8828</i>	
Setting Type <input checked="" type="radio"/> Deep Rod <input type="radio"/> Concrete Mon. <input type="radio"/> Fixed Mt.		Monument Size	
Stamping <i>F 363 1992</i>		Inscription (i.e. NGS, Woolpt, etc.) <i>NGS</i>	
Photo Ctrl Target Type <i>N/A</i>			
Visibility Diagram <input checked="" type="checkbox"/> Photos Available			
			
<input type="checkbox"/> No Obstructions above 10'			



Location Description / Comments



F 363, CP3406, 1, 23FEB2016



F 363, CP3406, 2, 23FEB2016



F 363, CP3406, 3E, 23FEB2016



F 363, CP3406, 3N, 23FEB2016



F 363, CP3406, 3S, 23FEB2016

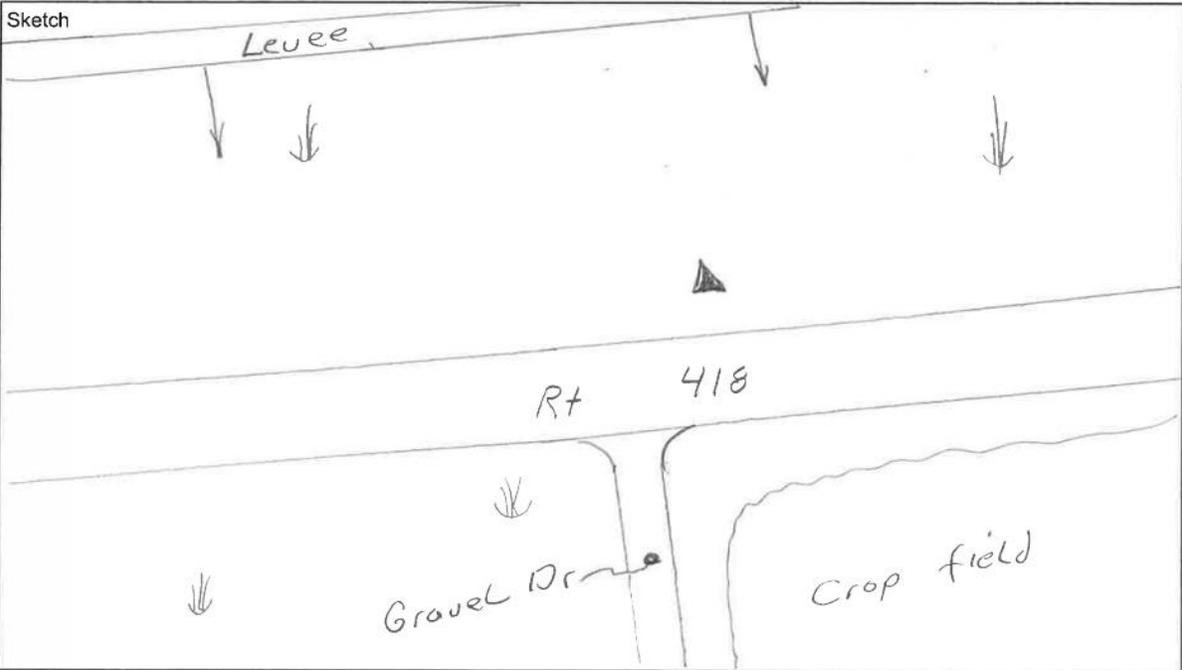


F 363, CP3406, 3W, 23FEB2016

**76268 Mississippi NRCS 2016 LiDAR GPS Control Logs**



Station Designation <i>G208 Reset 1976</i>	PID <i>BW0055</i>	Location <b>Mississippi</b>	Date <i>2 / 18 / 2016</i>
<input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TACS <input type="checkbox"/> OBM <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> Other <i>H/M</i>		Observer <b>Bill Welbaum</b>	Organization <b>Woolpert Inc.</b>



Disk Detail  Photos Available

Monument is:

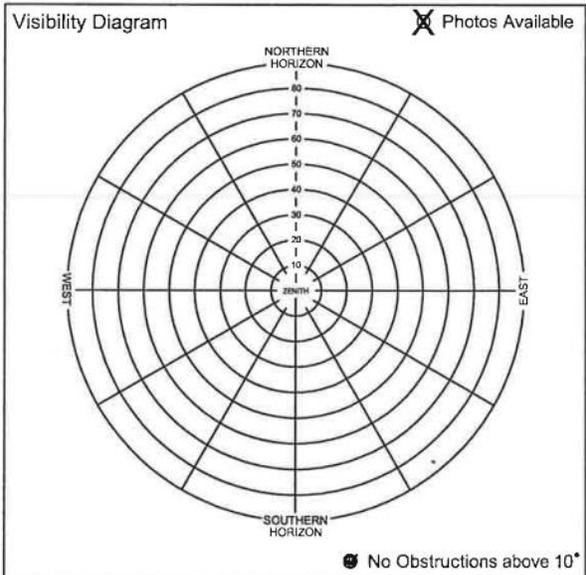
- A. Most stable
- B. Excellent
- C. Good
- D. Poor

Monument is:

- Recessed \_\_\_cm
- Flush with ground
- Projecting \_\_\_cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.



# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>G 208 Reset 1976</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>76268 BW02182016</i>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Bill Welbaum</b>	Home Office <b>Dayton</b>
Observer email <b>William.Welbaum@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1326</b> Cell - <b>937.284.0258</b>	

Start Time <i>3 :42</i> utc <i>2 :42</i> local	Stop Time <i>3 :42</i> utc <i>2 :42</i> local	Calendar Date <i>2/18/2016</i>
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Station Classification				
<input type="checkbox"/> FBN	<input type="checkbox"/> CBN	<input type="checkbox"/> OBM	<input type="checkbox"/> PACS	<input type="checkbox"/> SACS
<input type="checkbox"/> TSM	<input type="checkbox"/> EoR	<input type="checkbox"/> NAVAID	<input type="checkbox"/> Photo Control	<input checked="" type="checkbox"/> Other:

Station PID <i>BW0055</i>	Sta. SSN	Sta. ID <i>G 208</i>	Session <i>N/A</i>	Julian Day <i>049</i>
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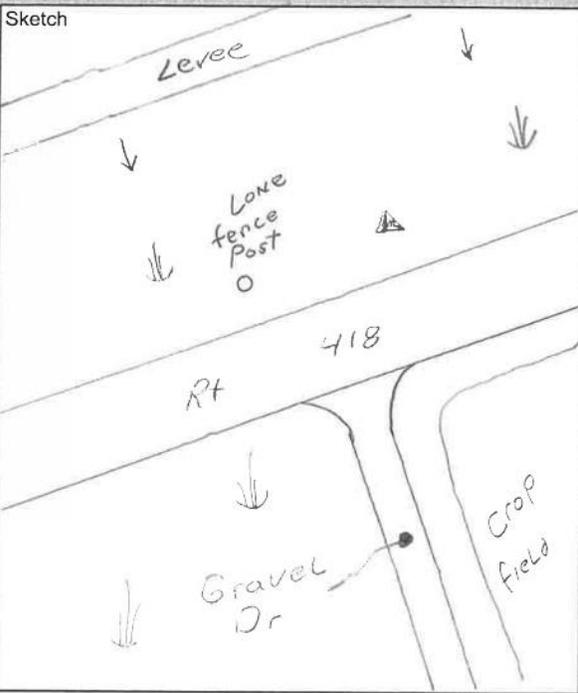
Latitude <i>N 31 °00 '29.21</i>	Longitude <i>"W 91 °45 '35.37"</i>
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Antenna Ht. (before; include add. offsets) <i>2.00 M 6.562 Sft</i>	E-Height <i>-42.03 Sft</i>
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Ant. Ht. Measured To <input checked="" type="radio"/> Bottom of Ant. Mt. <input type="radio"/> Other:	Ground Plane <input type="radio"/> Yes <input checked="" type="radio"/> No
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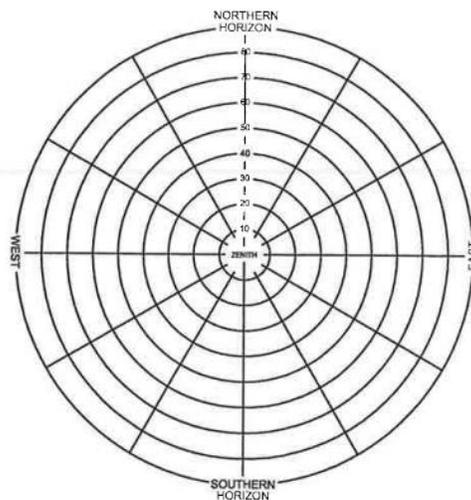
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input type="checkbox"/> Bi-pod
---

Receiver P/N <i>R8 Mod 3</i> S/N <i>8828</i>	Antenna P/N <i>R8 Mod 3</i> S/N <i>8828</i>
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Location Description / Comments

Visibility Diagram	<input checked="" type="checkbox"/> Photos Available
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No Obstructions above 10°

Setting Type <input type="checkbox"/> Deep Rod <input checked="" type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size
Stamping <i>Reset G208 1976</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>NGS</i>
Photo Ctrl Target Type <i>N/A</i>	



G 208 RESET 1976, BW0055, 1, HT\_MOD, 18FEB2016



G 208 RESET 1976, BW0055, 2, HT\_MOD, 18FEB2016



G 208 RESET 1976, BW0055, 3E, HT\_MOD, 18FEB2016



G 208 RESET 1976, BW0055, 3N, HT\_MOD, 18FEB2016



G 208 RESET 1976, BW0055, 3S, HT\_MOD, 18FEB2018

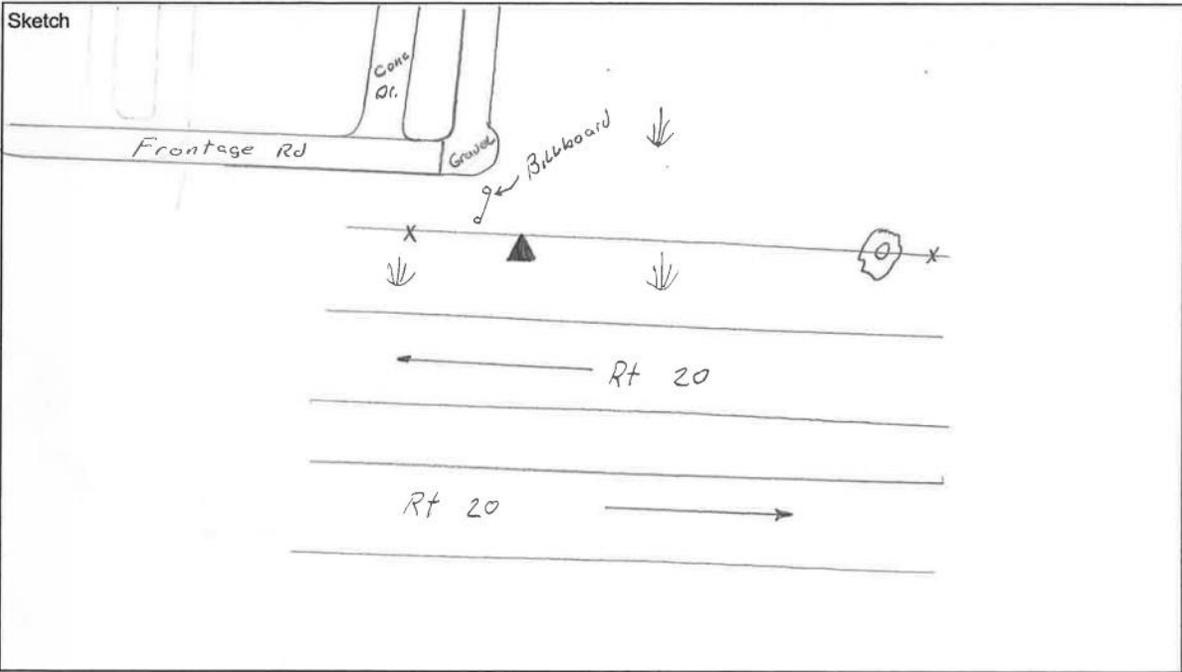


G 208 RESET 1976, BW0055, 3W, HT\_MOD, 18FEB2016

76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>G363</b>	PID <b>CP3410</b>	Location <b>Mississippi</b>	Date <b>2/23/2016</b>
<input type="radio"/> PACS <input type="radio"/> SACS <input type="radio"/> TACS <input checked="" type="radio"/> BM <input type="radio"/> FBN <input type="radio"/> CBN <input type="radio"/> Other _____		Observer <b>Bill Welbaum</b>	Organization <b>Woolpert Inc.</b>



Photos Available

Disk Detail

Monument is:

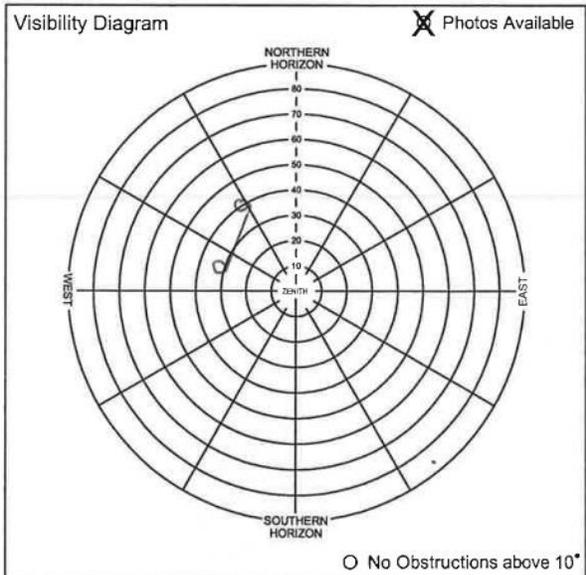
- A. Most stable
- B. Excellent
- C. Good
- D. Poor

Monument is:

- Recessed \_\_\_\_ cm
- Flush with ground
- Projecting \_\_\_\_ cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.



# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>G363</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>36930530</b>	<input type="checkbox"/> RTK File
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Observer Full Name <b>Bill Welbaum</b>	Home Office <b>Dayton</b>
Observer email <b>William.Welbaum@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1326</b> Cell - <b>937.284.0258</b>	

Start Time <b>8 : 20</b> utc <b>7 : 20</b> local	Stop Time <b>6 : 48</b> utc <b>5 : 48</b> local	Calendar Date <b>2 / 23 / 2016</b>
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID <b>CP3410</b>	Sta. SSN	Sta. ID <b>G363</b>	Session	Julian Day <b>053</b>
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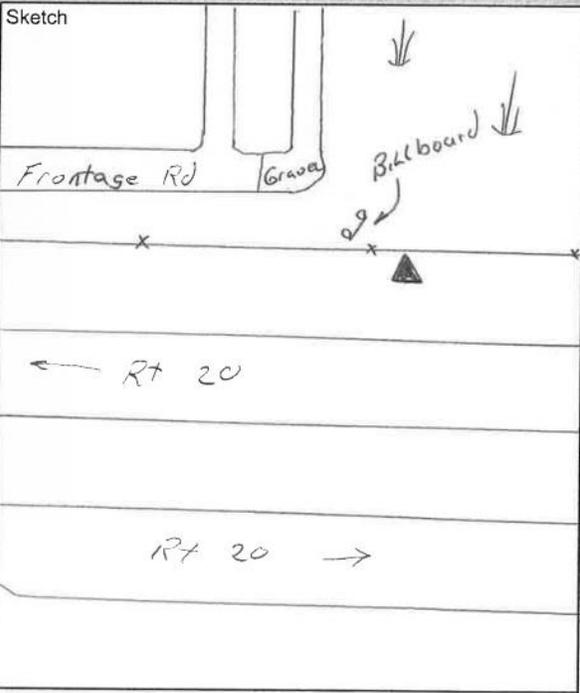
Latitude <b>N 32 ° 21 '16.12 "</b>	Longitude <b>W 90 ° 38 '33.24 "</b>
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Antenna Ht. (before; include add. offsets) <b>2.00m 6.5625ft</b>	E-Height <b>60.882</b>
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Ant. Ht. Measured To  
 Bottom of Ant. Mt.  Other:  Ground Plane  
 Yes  No

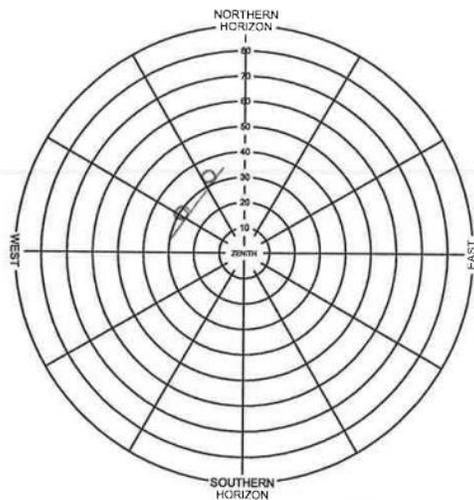
Tripod Type  
 Fixed-Ht.  Slip-leg  Fixed mount  Bi-pod

Receiver P/N <b>R8 Mod 2</b> S/N <b>3693</b>	Antenna P/N <b>R8 Mod 2</b> S/N <b>3693</b>
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Location Description / Comments

Visibility Diagram  Photos Available



No Obstructions above 10'

Setting Type <input checked="" type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size
Stamping <b>G363 1992</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>NGS</b>
Photo Ctrl Target Type <b>N/A</b>	

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>G 363</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>36930540</i>	<input type="checkbox"/> RTK File
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Observer Full Name <b>Bill Welbaum</b>	Home Office <b>Dayton</b>
Observer email <b>William.Welbaum@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1326</b> Cell - <b>937.284.0258</b>	

Start Time <i>7 : 33</i> utc	Stop Time <i>6 : 32</i> utc	Calendar Date <i>2 / 24 / 2016</i>
<i>6 : 33</i> local	<i>5 : 32</i> local	

Station Classification  
 FBN    CBN    BM    PACS    SACS    TSM  
 EoR    NAVAID    Photo Control    Other:

Station PID <i>CP 3410</i>	Sta. SSN	Sta. ID <i>G363</i>	Session	Julian Day <i>054</i>
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Latitude <i>N 32 ° 21 '16.12</i>	Longitude <i>W 90 ° 38 '33.27</i>
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Antenna Ht. (before; include add. offsets) <i>2.00m 6.56254</i>	E-Height <i>60.882</i>
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Ant. Ht. Measured To <input checked="" type="radio"/> Bottom of Ant. Mt. <input type="radio"/> Other:	Ground Plane <input type="radio"/> Yes <input checked="" type="radio"/> No
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Tripod Type  
 Fixed-Ht.    Slip-leg    Fixed mount    Bi-pod

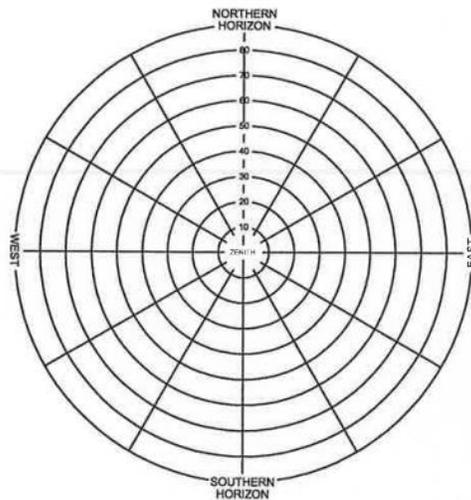
Receiver P/N <i>R8 Mod 2</i>	Antenna P/N <i>R8 Mod 2</i>
S/N <i>3693</i>	S/N <i>3693</i>

Sketch

*SEE previous observation for sketch*

Location Description / Comments

Visibility Diagram  Photos Available



Setting Type <input checked="" type="radio"/> Deep Rod <input type="radio"/> Concrete Mon. <input type="radio"/> Fixed Mt.	Monument Size
Stamping <i>G363 1992</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>NGS</i>
Photo Ctrl Target Type <i>N/A</i>	

No Obstructions above 10°





G 363, CP3410, 1, 23FEB2016



G 363, CP3410, 2, 23FEB2016



G 363, CP3410, 3E, 23FEB2016



G 363, CP3410, 3N, 23FEB2016



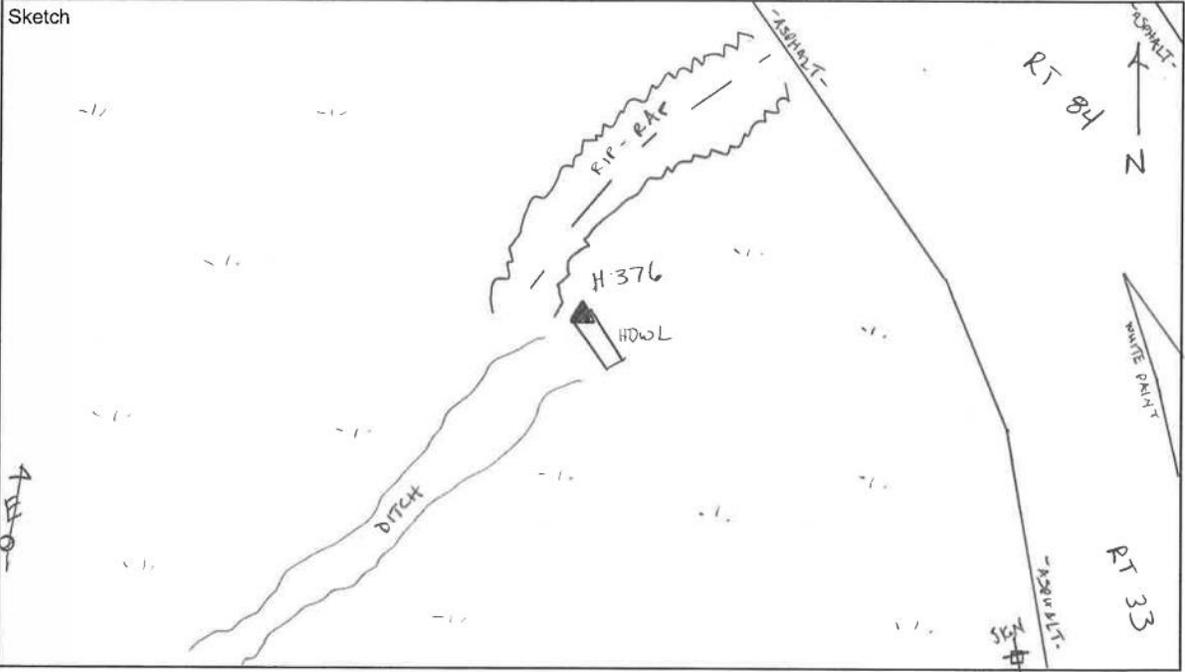
G 363, CP3410, 3S, 23FEB2016



G 363, CP3410, 3W, 23FEB2016

76268 Mississippi NRCS 2016 LiDAR GPS Control Logs **W** WOOLPERT  
DESIGN GEOSPATIAL INFRASTRUCTURE

Station Designation H 376	PID DL9111	Location Mississippi	Date 02/19/2016
<input type="radio"/> PACS <input type="radio"/> SACS <input type="radio"/> TACS <input checked="" type="radio"/> BM <input type="radio"/> FBN <input type="radio"/> CBN <input type="radio"/> Other _____		Observer <b>Zach Leesemann</b>	Organization <b>Woolpert Inc.</b>



Disk Detail  Photos Available

Monument is:

- A. Most stable
- B. Excellent
- C. Good
- D. Poor

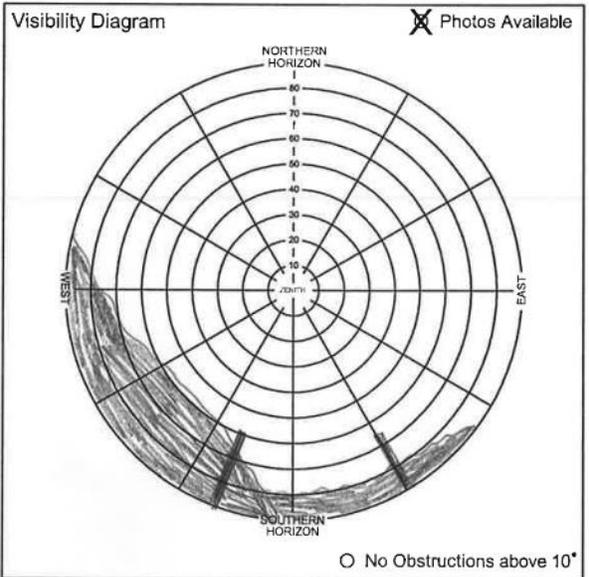
A circular sketch of a monument disk. The outer ring contains the text 'MISSISSIPPI DEPARTMENT OF TRANSPORTATION'. In the center, 'H 376' is written above a small dot, and '2009' is written below it.

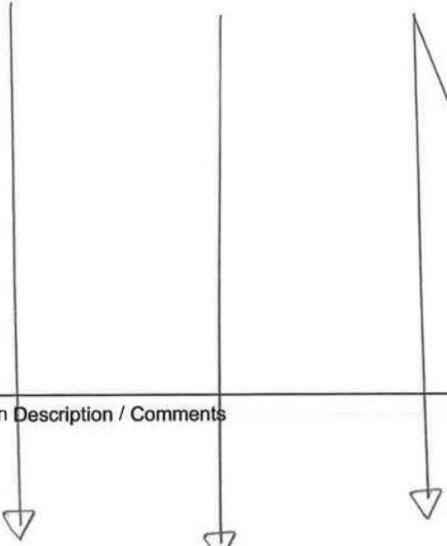
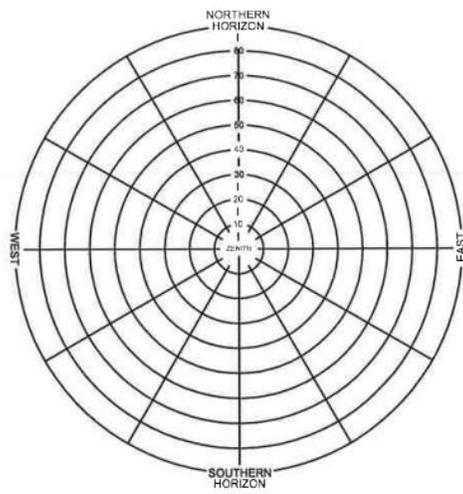
Monument is:

- Recessed \_\_\_\_\_ cm
- Flush with ground
- Projecting \_\_\_\_\_ cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.



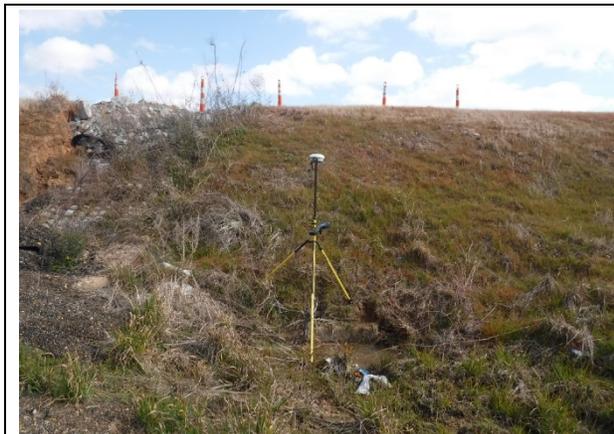
76268 Mississippi NRCS 2016 LiDAR GPS Control Logs <span style="float: right;"></span>									
Station Designation <b>H 376</b>		Airport LID & State <b>Mississippi</b>		Data File Name <input checked="" type="checkbox"/> RTK File <b>76268_02192016_ZRL.job</b>					
Observer Full Name <b>Zach Leeseemann</b>		Home Office <b>Dayton</b>		Start Time : : utc <b>10 : 27 local</b>					
Observer email <b>Zach.Leeemann@Woolpert.com</b>				Stop Time : : utc <b>10 : 34 local</b>					
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>		Calendar Date <b>02 / 19 / 2016</b>							
Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:									
Station PID <b>DL9111</b>	Sta. SSN <b>-</b>	Sta. ID <b>H 376</b>	Session <b>-</b>	Julian Day <b>050</b>					
Latitude <b>N 31 ° 30 ' 51.03 "</b>		Longitude <b>W 91 ° 04 ' 56.74 "</b>							
Antenna Ht. (before; include add, offsets) <b>2.00 m</b>		E-Height <b>203.270 sft</b>							
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:		Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod									
Receiver R8-3 P/N 67250-66 S/N 5211484428		Antenna R8-3 P/N 67250-66 S/N 5211484428							
Visibility Diagram <input checked="" type="checkbox"/> Photos Available									
<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">SEE S.R.L.</p>  </div>				 <p style="text-align: right;">○ No Obstructions above 10°</p>					
					Location Description / Comments				
					Setting Type <input type="checkbox"/> Deep Rod <input checked="" type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.		Monument Size <b>≈ 3.5"</b>		
					Stamping <b>H 376 2009</b>		Inscription (i.e. NGS, Woolpt, etc.) <b>MS DOT</b>		
Photo Ctrl Target Type <b>N/A</b>									



H 376, DL9111, 1, 19FEB2016



H 376, DL9111, 2, 19FEB2016



H 376, DL9111, 3NE, 19FEB2016



H 376, DL9111, 3SE, 19FEB2016



H 376, DL9111, 3SW, 19FEB2016

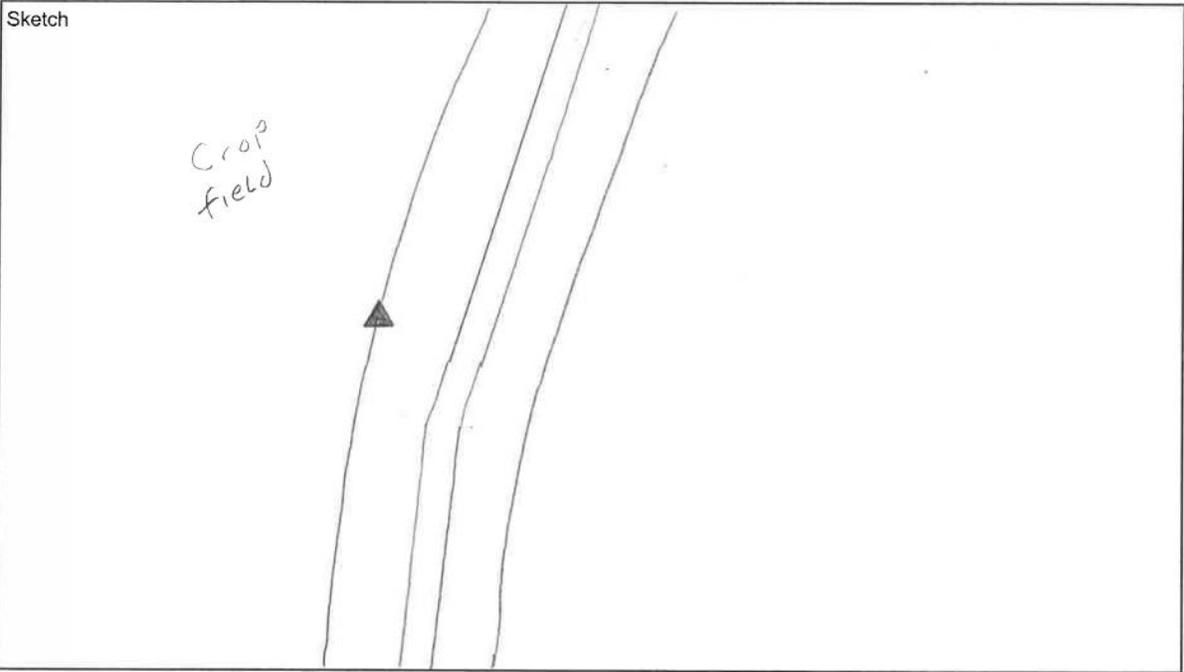


H 376, DL9111, 3W, 19FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>L 24 49 USE</b>	PID <b>CP 2287</b>	Location <b>Mississippi</b>	Date <b>2 / 20 / 2016</b>
<input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TACS <input type="checkbox"/> BM <input type="checkbox"/> OFBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> Other <u>H/M</u>	Observer <b>Bill Welbaum</b>	Organization <b>Woolpert Inc.</b>	



Disk Detail  Photos Available

Monument is:

- A. Most stable
- B. Excellent
- C. Good
- D. Poor

Monument is:

- Recessed \_\_\_\_ cm
- Flush with ground
- Projecting \_\_\_\_ cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.

Visibility Diagram  Photos Available

No Obstructions above 10'





L 24 49 USE, CP2287, 1, HT\_MOD, 20FEB2016



L 24 49 USE, CP2287, 2, HT\_MOD, 20FEB2016



L 24 49 USE, CP2287, 3E, HT\_MOD, 20FEB2016



L 24 49 USE, CP2287, 3N, HT\_MOD, 20FEB2016



L 24 49 USE, CP2287, 3S, HT\_MOD, 20FEB2016

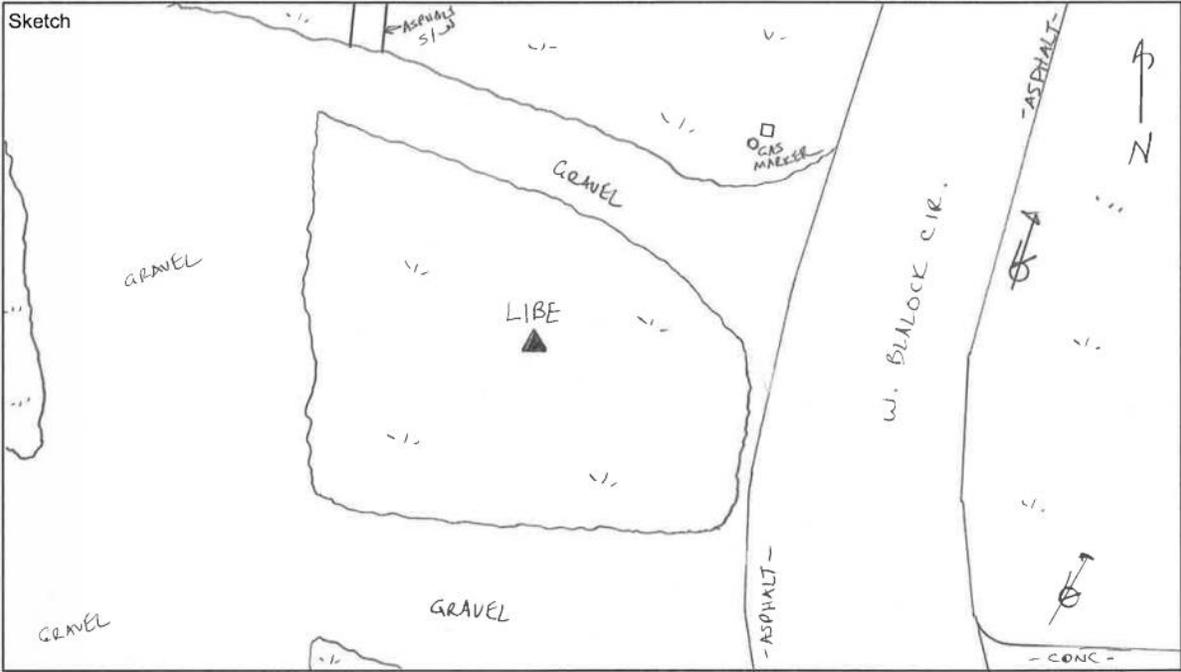


L 24 49 USE, CP2287, 3W, HT\_MOD, 20FEB2016

**76268 Mississippi NRCS 2016 LiDAR GPS Control Logs**



Station Designation <b>LIBE</b>	PID <b>DN4037</b>	Location <b>Mississippi</b>	Date <b>02/16/2016</b>
<input type="radio"/> PACS <input type="radio"/> SACS <input type="radio"/> TACS <input type="radio"/> BM <input type="radio"/> FBN <input type="radio"/> CBN <input checked="" type="radio"/> Other <b>HT MOD</b>		Observer <b>Zach Leesemann</b>	Organization <b>Woolpert Inc.</b>



Disk Detail  Photos Available

Monument is:

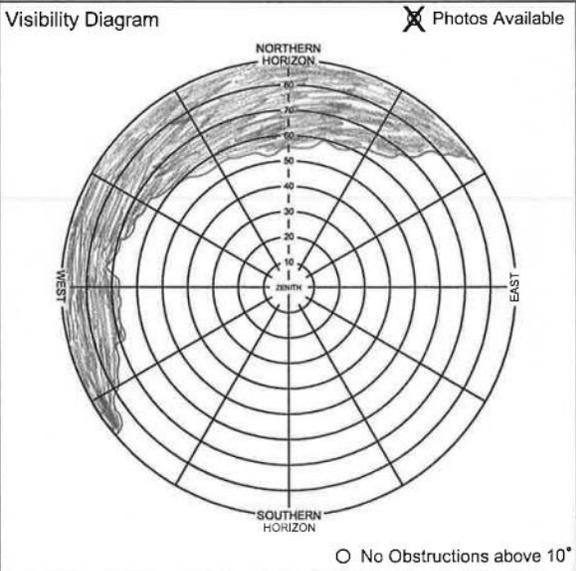
- A. Most stable
- B. Excellent
- C. Good
- D. Poor

Monument is:

- Recessed \_\_\_cm
- Flush with ground
- Projecting \_\_\_cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.



# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>LIBE</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>LIBE_42350470.T02</b>	<input type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : 10 : 07 local	Stop Time : 18 : 04 local	Calendar Date <b>02/16/2016</b>
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other: HT Mod

Station PID <b>DN4037</b>	Sta. SSN —	Sta. ID <b>LIBE</b>	Session —	Julian Day <b>047</b>
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Latitude <b>N 31 ° 09 '47.03 "</b>	Longitude <b>W 90 ° 47 '18.47 "</b>
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Antenna Ht. (before; include add. offsets) <b>2.00 M</b>	E-Height <b>95.762 M</b>
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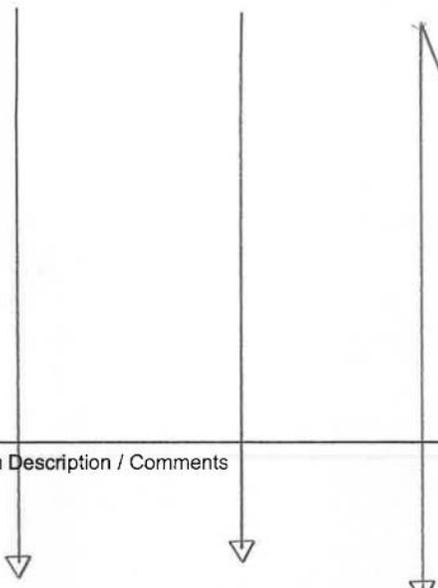
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N <del>87208-66</del> <b>87208-66</b> 523444235 S/N <del>521118428</del>	Antenna R8-3 P/N <del>87208-66</del> <b>87208-66</b> 523444235 S/N <del>521118428</del>
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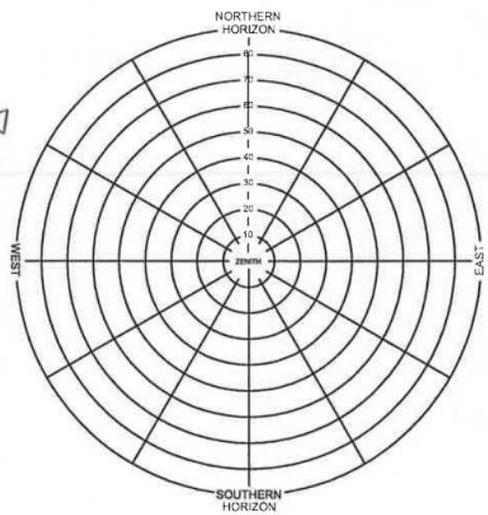
Sketch

SEE S.R.L.



Location Description / Comments

Visibility Diagram  Photos Available



Setting Type <input type="radio"/> Deep Rod <input checked="" type="radio"/> Concrete Mon. <input type="radio"/> Fixed Mt.	Monument Size <b>≈ 3.5"</b>
Stamping <b>LIBE 2008</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>MS DOT</b>
Photo Ctrl Target Type <b>N/A</b>	

No Obstructions above 10'

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

Station Designation <i>LIBE</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>LIBE_42350480_T02</i>
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : : <i>7 : 52</i> local	Stop Time : : : <i>18 : 10</i> local	Calendar Date <i>02/17/2016</i>
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other: *HT Mod*

Station PID <i>DN4037</i>	Sta. SSN —	Sta. ID <i>LIBE</i>	Session —	Julian Day <i>048</i>
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Latitude <i>N 31 ° 09 '47.03 "</i>	Longitude <i>W 90 ° 47 '18.47 "</i>
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Antenna Ht. (before, include add. offsets) <i>2.00 m</i>	E-Height <i>95.762 m</i>
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Ant. Ht. Measured To  
 Bottom of Ant. Mt.  Other: \_\_\_\_\_

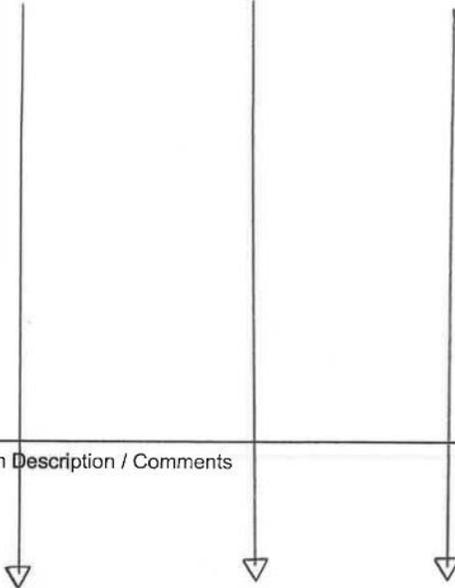
Ground Plane  
 Yes  No

Tripod Type  
 Fixed-Ht.  Slip-leg  Fixed mount  Bi-pod

Receiver R8-3 P/N <del>07250-66</del> <i>87250-66</i> <i>5234494235</i> S/N <del>521462425</del>	Antenna R8-3 P/N <del>07250-66</del> <i>87250-66</i> <i>5234494235</i> S/N <del>521462425</del>
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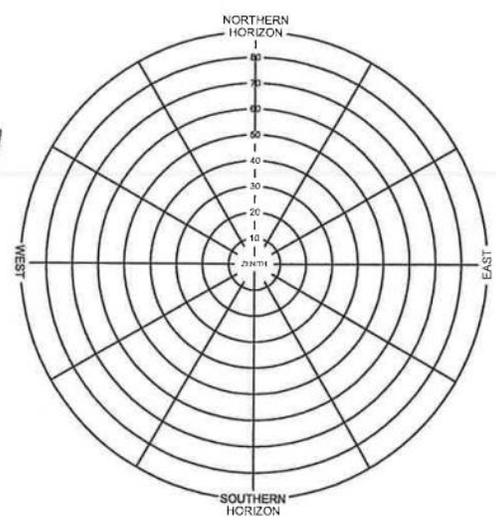
Sketch

*SEE PREVIOUS*



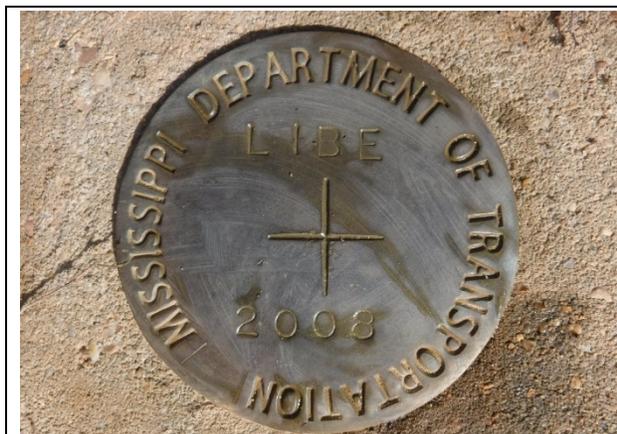
Location Description / Comments

Visibility Diagram  Photos Available



Setting Type <input type="checkbox"/> Deep Rod <input checked="" type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <i>~ 3.5 "</i>
Stamping <i>LIBE 2008</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>MS DOT</i>
Photo Ctrl Target Type <i>N/A</i>	

No Obstructions above 10'



LIBE, DN4037, 1, HT\_MOD, 16FEB2016



LIBE, DN4037, 2, HT\_MOD, 16FEB2016



LIBE, DN4037, 3E, HT\_MOD, 16FEB2016



LIBE, DN4037, 3N, HT\_MOD, 16FEB2016



LIBE, DN4037, 3S, HT\_MOD, 16FEB2016



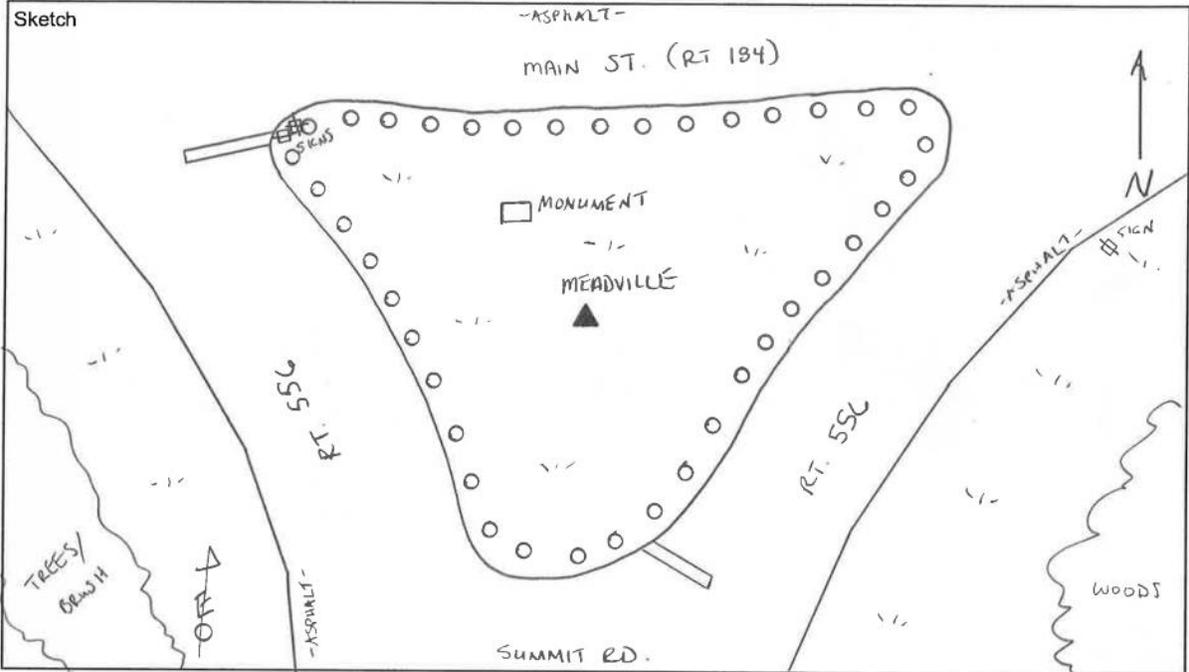
LIBE, DN4037, 3W, HT\_MOD, 16FEB2016

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76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>MEADVILLE</b>	PID <b>BW0421</b>	Location <b>Mississippi</b>	Date <b>02/18/2016</b>
<input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TACS <input checked="" type="checkbox"/> BM <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> Other _____	Observer <b>Zach Leesemann</b>	Organization <b>Woolpert Inc.</b>	



Disk Detail  Photos Available

Monument is:

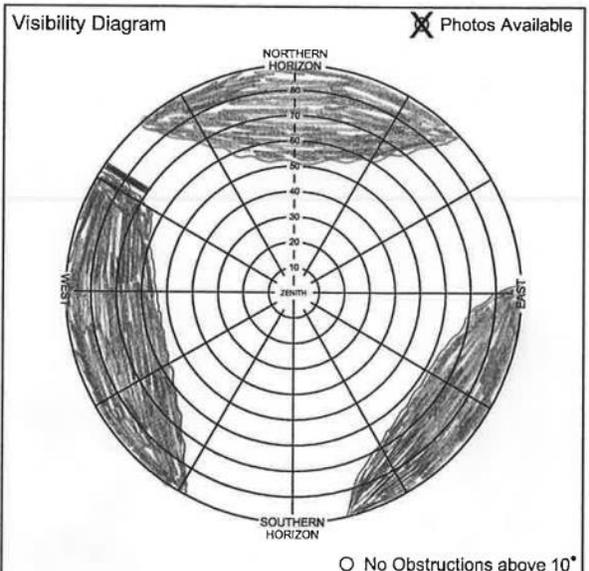
- A. Most stable
- B. Excellent
- C. Good
- D. Poor

Monument is:

- Recessed \_\_\_\_ cm
- Flush with ground
- Projecting \_\_\_\_ cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.



# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>MEADVILLE</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>MEADVILLE_42350490_T02</b>	<input type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : : <b>8 : 47</b> local	Stop Time : : : <b>17 : 50</b> local	Calendar Date <b>02/18/2016</b>
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID <b>BSW0421</b>	Sta. SSN -	Sta. ID <b>MEADVILLE</b>	Session -	Julian Day <b>049</b>
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Latitude <b>N 31° 28' 19.30"</b>	Longitude <b>W 90° 53' 13.87"</b>
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Antenna Ht. (before, include add. offsets) <b>2.00 m</b>	E-Height <b>84.227 m</b>
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Ant. Ht. Measured To  
 Bottom of Ant. Mt.  Other: \_\_\_\_\_

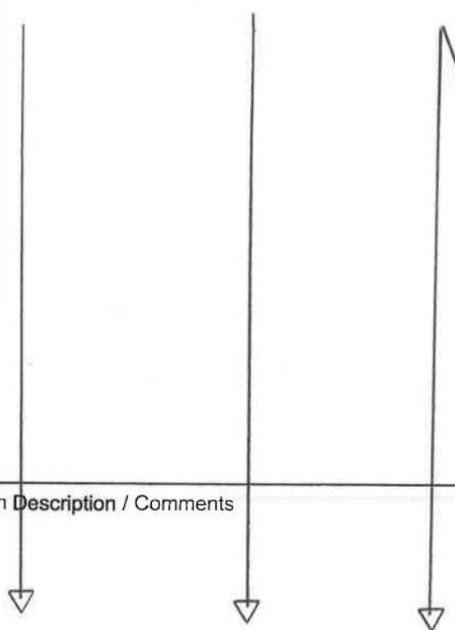
Ground Plane  
 Yes  No

Tripod Type  
 Fixed-Ht.  Slip-leg  Fixed mount  Bi-pod

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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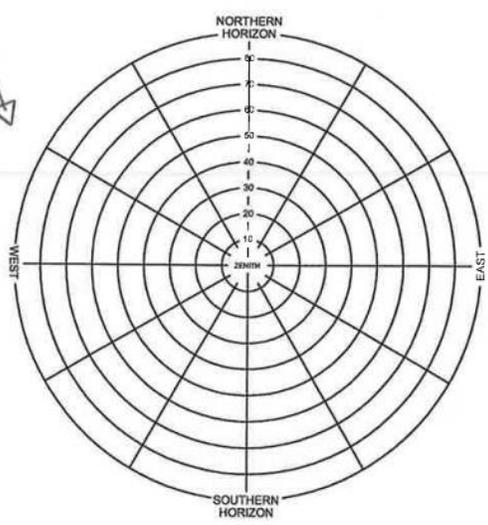
Sketch

SEE S. R. L.



Location Description / Comments
↓                      ↓                      ↓

Visibility Diagram  Photos Available



Setting Type <input type="checkbox"/> Deep Rod <input checked="" type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>≈ 3.5"</b>
Stamping <b>MEADVILLE 1949</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>CGS</b>
Photo Ctrl Target Type <b>N/A</b>	

No Obstructions above 10'





MEADVILLE, BW0421, 1, 18FEB2016



MEADVILLE, BW0421, 2, 18FEB2016



MEADVILLE, BW0421, 3E, 18FEB2016



MEADVILLE, BW0421, 3N, 18FEB2016



MEADVILLE, BW0421, 3S, 18FEB2016

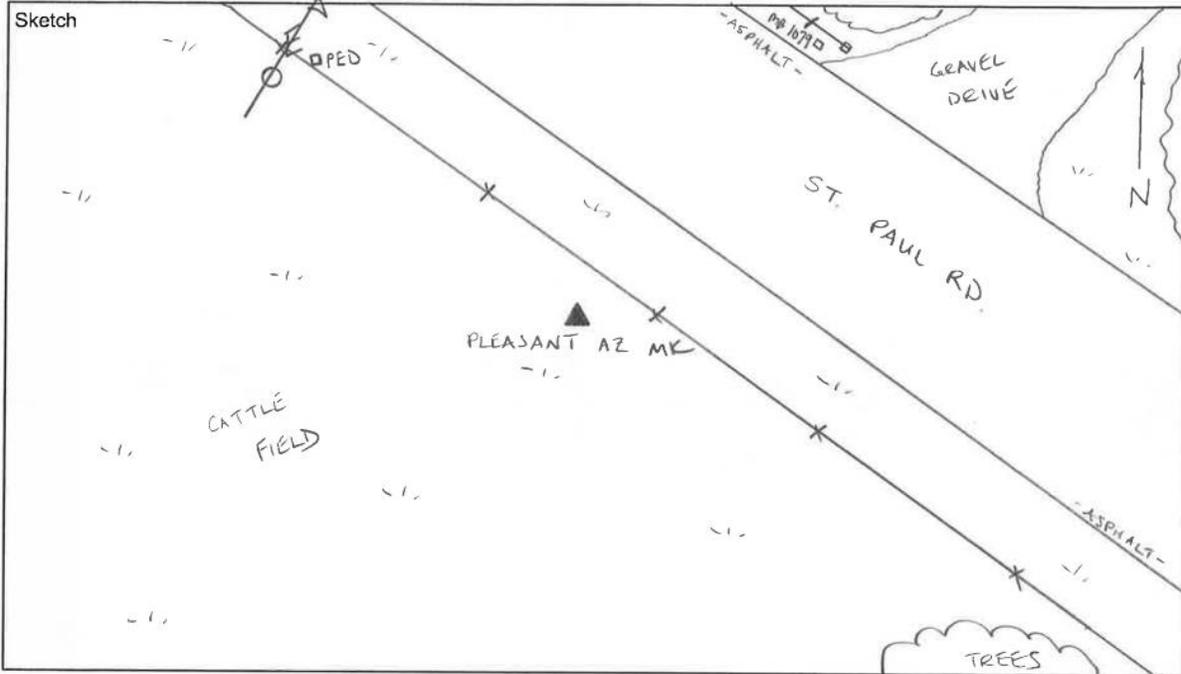


MEADVILLE, BW0421, 3W, 18FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

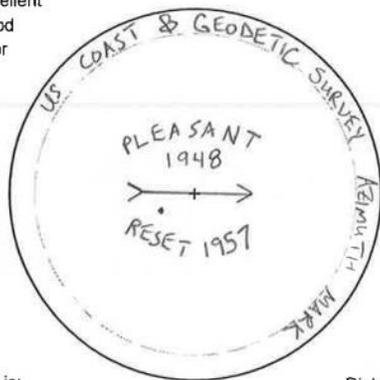


Station Designation PLEASANT AZ MK	PID CY4479	Location Mississippi	Date 02/20/2016
<input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TACS <input type="checkbox"/> BM <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> Other <u>HT MOD</u>		Observer <b>Zach Leesemann</b>	Organization <b>Woolpert Inc.</b>



Disk Detail  Photos Available

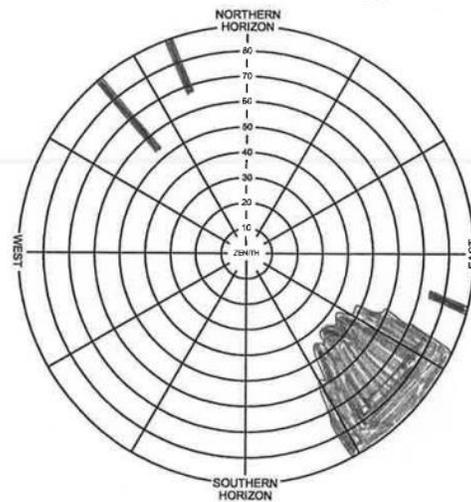
- Monument is:
- A. Most stable
  - B. Excellent
  - C. Good
  - D. Poor



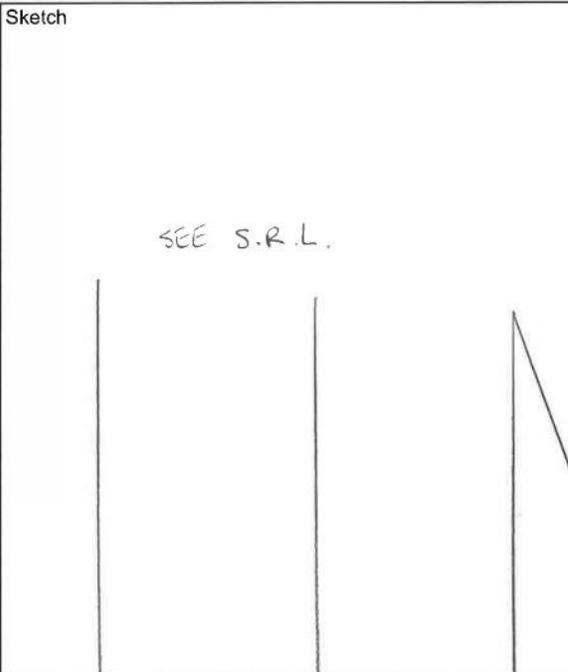
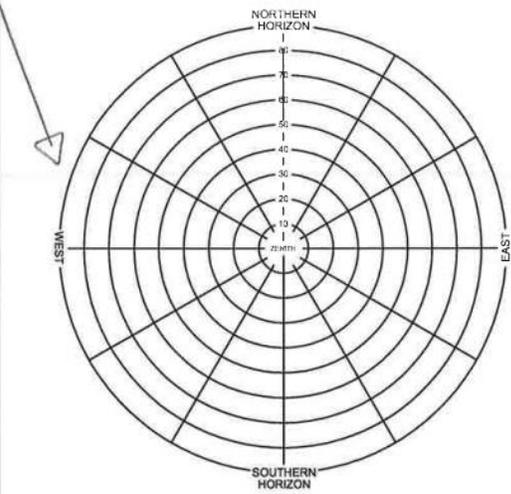
- Monument is:
- Recessed \_\_\_\_ cm
  - Flush with ground
  - Projecting \_\_\_\_ cm

- Disk is set:
- in bedrock.
  - in concrete.
  - in structure.

Visibility Diagram  Photos Available



No Obstructions above 10°

76268 Mississippi NRCS 2016 LiDAR GPS Control Logs <span style="float: right;"></span>							
Station Designation <i>PLEASANT AZ MK</i>		Airport LID & State <b>Mississippi</b>		Data File Name <input checked="" type="checkbox"/> RTK File <i>76268_02202016_ZRL.job</i>			
Observer Full Name <b>Zach Leeseemann</b>		Home Office <b>Dayton</b>		Start Time : : utc <i>11 : 55</i> local			
Observer email <b>Zach.Leeseemann@Woolpert.com</b>				Stop Time : : utc <i>12 : 02</i> local			
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>		Calendar Date <i>02/20/2016</i>					
Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EOR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other: <i>HT MoD</i>							
Station PID <i>CY4479</i>		Sta. SSN —	Sta. ID <i>PL AZMK</i>	Session —			
Latitude <i>N 31 ° 43 ' 20.08 "</i>		Longitude <i>W 90 ° 44 ' 02.92 "</i>					
Antenna Ht. (before; include add. offsets) <i>2.00 m</i>		E-Height <i>395.020 sft</i>					
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:		Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod							
Receiver R8-3 P/N 67250-66 S/N 5211484428		Antenna R8-3 P/N 67250-66 S/N 5211484428					
Visibility Diagram <input checked="" type="checkbox"/> Photos Available							
Sketch  <i>SEE S.R.L.</i>  							
					Setting Type <input type="checkbox"/> Deep Rod <input checked="" type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.		Monument Size <i>≈ 3.5"</i>
					Stamping <i>PLEASANT RESET 1948 1957</i>		Inscription (i.e. NGS, Woolpt, etc.) <i>CGS</i>
					Photo Ctrl Target Type <i>N/A</i>		
Location Description / Comments		<p style="text-align: center;">○ No Obstructions above 10'</p>					



PLEASANT AZ MK, CY4479, 1, HT\_MOD, 20FEB2016



PLEASANT AZ MK, CY4479, 2, HT\_MOD, 20FEB2016



PLEASANT AZ MK, CY4479, 3NE, HT\_MOD, 20FEB2016



PLEASANT AZ MK, CY4479, 3NW, HT\_MOD, 20FEB2016



PLEASANT AZ MK, CY4479, 3SE, HT\_MOD, 20FEB2016

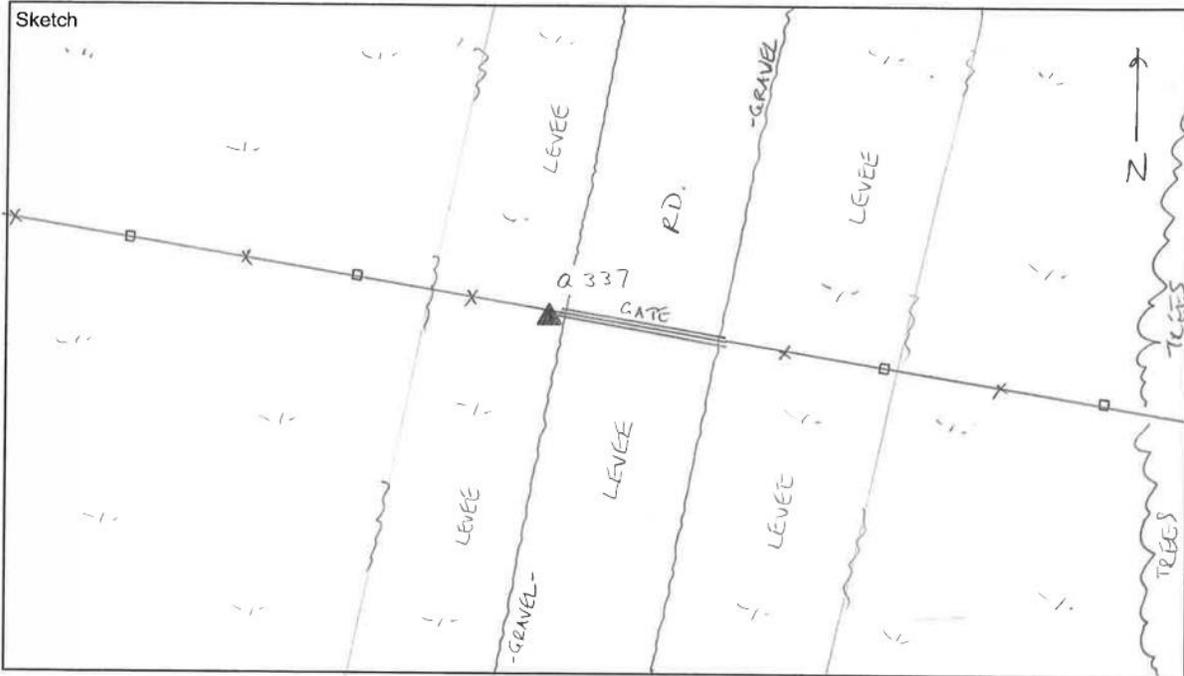


PLEASANT AZ MK, CY4479, 3SW, HT\_MOD, 20FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>Q 337</b>	PID <b>BW1870</b>	Location <b>Mississippi</b>	Date <b>02/21/2016</b>
<input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TACS <input type="checkbox"/> OBM <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> Other <u>HT MOD</u>	Observer <b>Zach Leesemann</b>		Organization <b>Woolpert Inc.</b>



Disk Detail  Photos Available

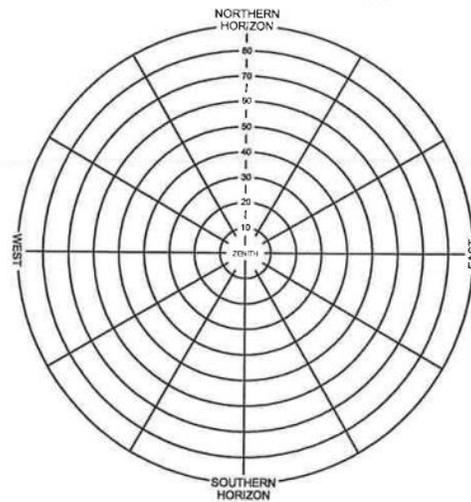
- Monument is:
- A. Most stable
  - B. Excellent
  - C. Good
  - D. Poor



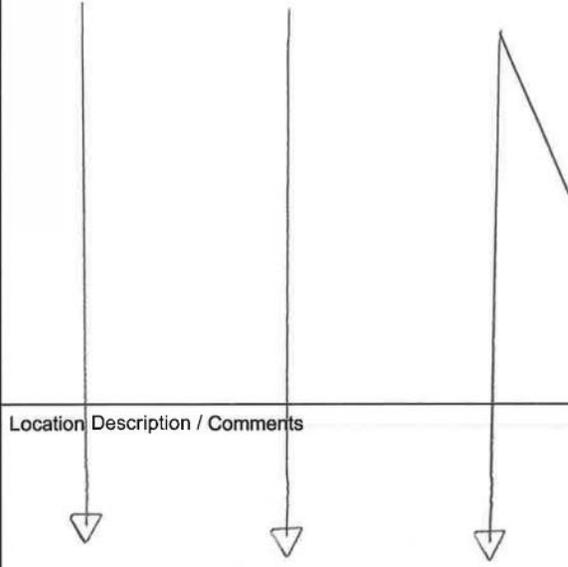
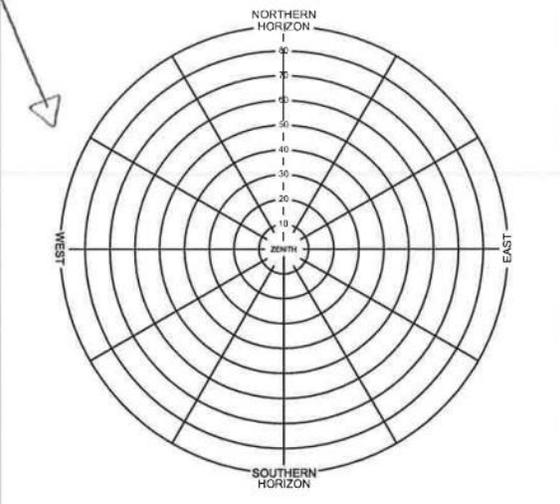
- Monument is:
- Recessed \_\_\_cm
  - Flush with ground
  - Projecting \_\_\_cm

- Disk is set:
- in bedrock.
  - in concrete.
  - in structure.

Visibility Diagram  Photos Available



No Obstructions above 10'

76268 Mississippi NRCS 2016 LiDAR GPS Control Logs <span style="float: right;"></span>							
Station Designation <b>Q 337</b>		Airport LID & State <b>Mississippi</b>		Data File Name <b>76268_02212016_ZRL.job</b> <input checked="" type="checkbox"/> RTK File			
Observer Full Name <b>Zach Leeseemann</b>		Home Office <b>Dayton</b>		Start Time : : utc <b>11 : 41 local</b>			
Observer email <b>Zach.Leeemann@Woolpert.com</b>				Stop Time : : utc <b>11 : 48 local</b>			
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>		Calendar Date <b>02/21/2016</b>					
Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input checked="" type="checkbox"/> Other: <b>HT MOD</b>							
Station PID <b>BW1870</b>		Sta. SSN —	Sta. ID <b>Q 337</b>	Session —			
Latitude <b>N 31 ° 49 ' 25.06 "</b>		Longitude <b>W 91 ° 21 ' 31.42 "</b>					
Antenna Ht. (before; include add. offsets) <b>2.00 m</b>		E-Height <b>7.359 sft</b>					
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:		Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod							
Receiver R8-3 P/N 67250-66 S/N 5211484428		Antenna R8-3 P/N 67250-66 S/N 5211484428					
Visibility Diagram <input checked="" type="checkbox"/> Photos Available							
Sketch  <div style="text-align: center;">SEE S.R.L.</div> 							
					Receiver R8-3		Antenna R8-3
					P/N 67250-66		P/N 67250-66
					S/N 5211484428		S/N 5211484428
Setting Type <input type="checkbox"/> Deep Rod <input checked="" type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.		Monument Size <b>≈ 3.5"</b>					
Stamping <b>Q 337 1979</b>		Inscription (i.e. NGS, Woolpt, etc.) <b>NGS</b>					
Photo Ctrl Target Type <b>N/A</b>							
Location Description / Comments							



Q 337, BW1870, 1, HT\_MOD, 21FEB2016



Q 337, BW1870, 2, HT\_MOD, 21FEB2016



Q 337, BW1870, 3E, HT\_MOD, 21FEB2016



Q 337, BW1870, 3N, HT\_MOD, 21FEB2016



Q 337, BW1870, 3SW, HT\_MOD, 21FEB2016

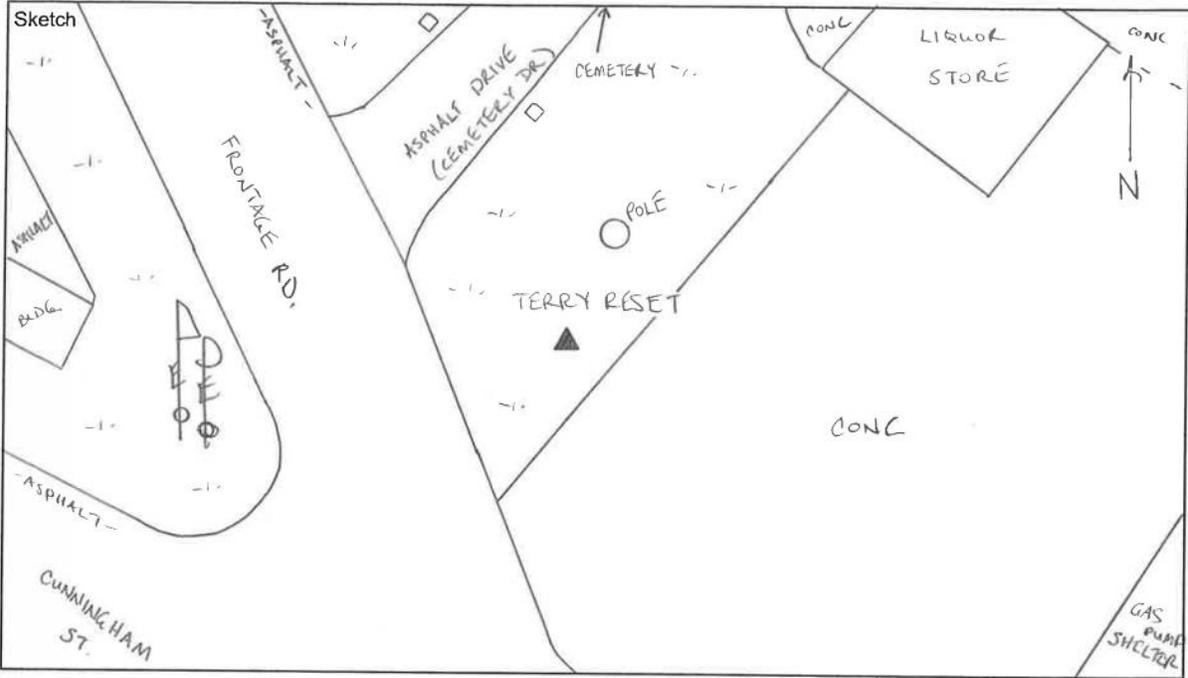


Q 337, BW1870, 3W, HT\_MOD, 21FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>TERRY RESET</b>	PID <b>CP0221</b>	Location <b>Mississippi</b>	Date <b>02/22/2016</b>
<input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TACS <input checked="" type="checkbox"/> BM <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> Other _____	Observer <b>Zach Leeseemann</b>	Organization <b>Woolpert Inc.</b>	

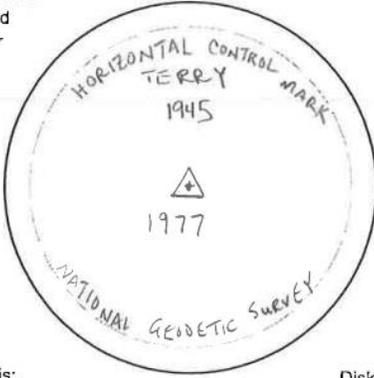


Photos Available

Disk Detail

Monument is:

- A. Most stable
- B. Excellent
- C. Good
- D. Poor

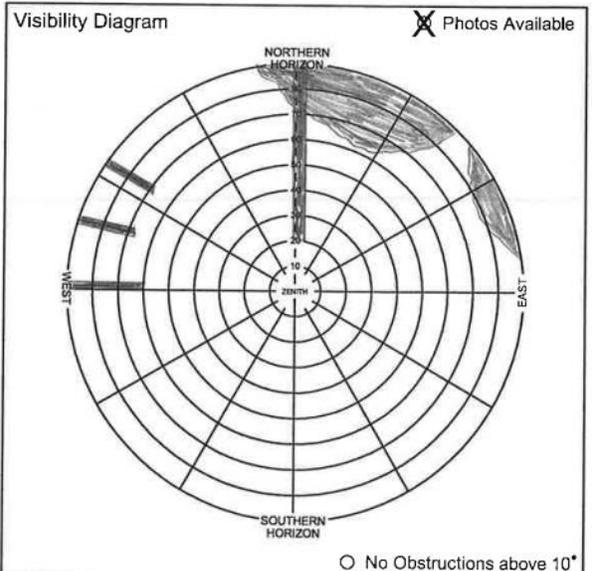


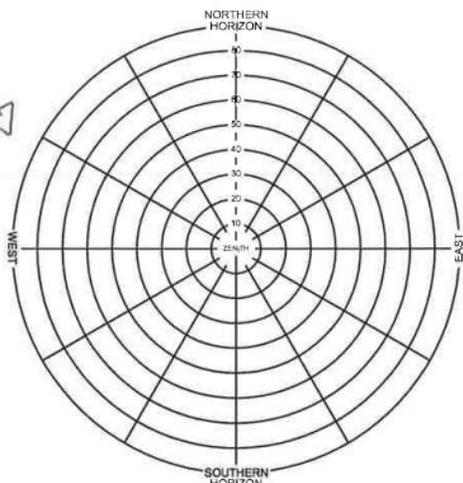
Monument is:

- Recessed 18 cm
- Flush with ground
- Projecting \_\_\_\_\_ cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.



76268 Mississippi NRCS 2016 LiDAR GPS Control Logs <span style="float: right;"></span>				
Station Designation <b>TERRY RESET</b>		Airport LID & State <b>Mississippi</b>		Data File Name <input checked="" type="checkbox"/> RTK File <b>76268-02222016-ZRL.job</b>
Observer Full Name <b>Zach Leeseemann</b>		Home Office <b>Dayton</b>		Start Time : : utc <b>11 : 57</b> local
Observer email <b>Zach.Leeemann@Woolpert.com</b>				Stop Time : : utc <b>12 : 04</b> local
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>		Calendar Date <b>02/22/2016</b>		
Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID <b>CP0221</b>		Sta. SSN <b>-</b>	Sta. ID <b>TERRY RESET</b>	Session <b>-</b>
Latitude <b>N 32° 06' 01.13"</b>		Longitude <b>W 90° 18' 01.16"</b>		
Antenna Ht. (before; include add. off/sets) <b>2.00 m</b>		E-Height <b>232.841 sft</b>		
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:		Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod				
Receiver R8-3 P/N 67250-66 S/N 5211484428		Antenna R8-3 P/N 67250-66 S/N 5211484428		
Visibility Diagram <input checked="" type="checkbox"/> Photos Available				
				
○ No Obstructions above 10°				
Sketch <b>SEE S.R.L.</b>				
Location		Description / Comments		
↓		↓		
↓		↓		
Setting Type <input type="checkbox"/> Deep Rod <input checked="" type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.		Monument Size <b>≈ 3.5"</b>		
Stamping <b>TERRY A45 1977</b>		Inscription (i.e. NGS, Woolpt, etc.) <b>NGS</b>		
Photo Ctrl Target Type <b>N/A</b>				



TERRY RESET, CP0221, 1, 22FEB2016



TERRY RESET, CP0221, 2, 22FEB2016



TERRY RESET, CP0221, 3NE, 22FEB2016



TERRY RESET, CP0221, 3NW, 22FEB2016



TERRY RESET, CP0221, 3SE, 22FEB2016



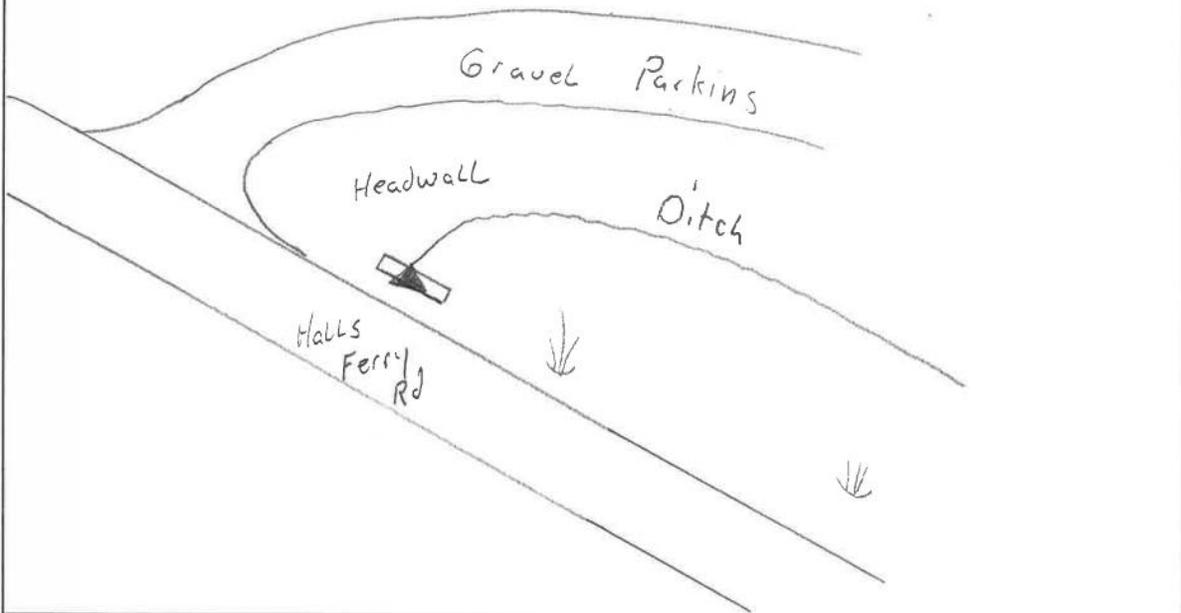
TERRY RESET, CP0221, 3SW, 22FEB2016

76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>VHM 3</i>	PID <i>DF9045</i>	Location <b>Mississippi</b>	Date <i>2/24/2016</i>
<input type="radio"/> PACS <input type="radio"/> SACS <input type="radio"/> TACS <input checked="" type="radio"/> BM <input type="radio"/> FBN <input type="radio"/> CBN <input checked="" type="radio"/> Other <i>H/M</i>	Observer <b>Bill Welbaum</b>	Organization <b>Woolpert Inc.</b>	

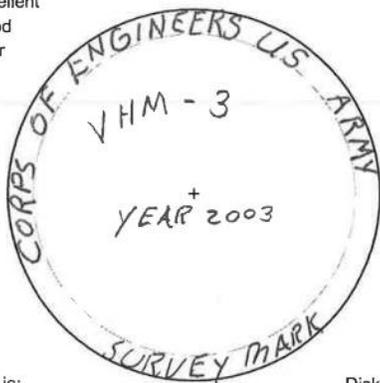
Sketch



Disk Detail  Photos Available

Monument is:

- A. Most stable
- B. Excellent
- C. Good
- D. Poor



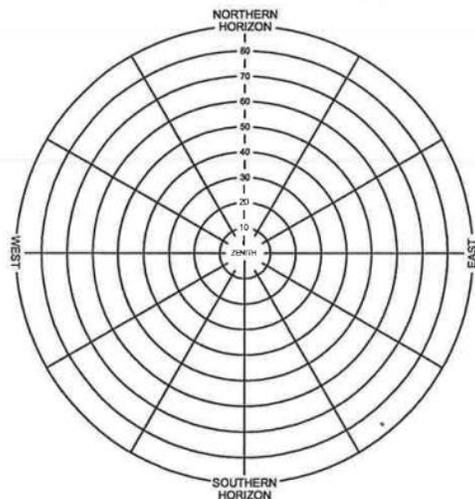
Monument is:

- Recessed \_\_\_cm
- Flush with ground
- Projecting \_\_\_cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.

Visibility Diagram  Photos Available



No Obstructions above 10°

76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>VHM3</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>76268BWOZ242016</i>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Bill Welbaum</b>	Home Office <b>Dayton</b>
Observer email <b>William.Welbaum@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1326</b> Cell - <b>937.284.0258</b>	

Start Time <i>12 : 30</i> utc	Stop Time <i>12 : 33</i> utc	Calendar Date <i>2/24/2016</i>
<i>11 : 30</i> local	<i>11 : 33</i> local	

Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other: *H/M*

Station PID <i>DF9045</i>	Sta. SSN	Sta. ID <i>VHM3</i>	Session	Julian Day <i>054</i>
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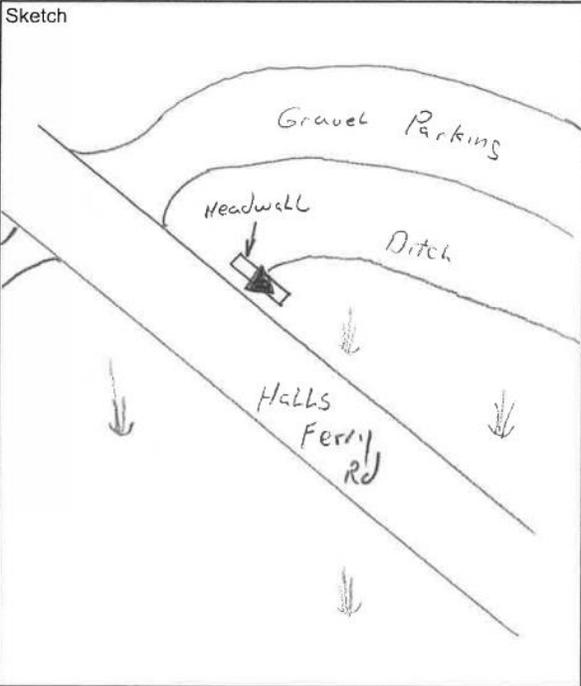
Latitude <i>N 32 ° 17 ' 23.6 "</i>	Longitude <i>W 90 ° 51 ' 07.58 "</i>
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Antenna Ht. (before; include add. offsets) <i>2.00m 6.562</i>	E-Height <i>44.42 sft</i>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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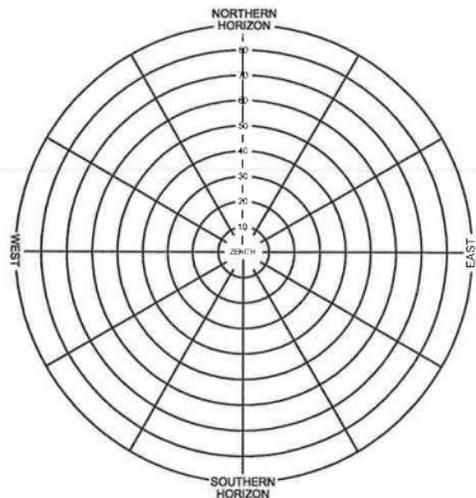
Tripod Type  
 Fixed-Ht.  Slip-leg  Fixed mount  Bi-pod

Receiver P/N <i>R8 Mod 3</i> S/N <i>8828</i>	Antenna P/N <i>R8 Mod 3</i> S/N <i>8828</i>
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Location Description / Comments

Visibility Diagram  Photos Available



No Obstructions above 10'

Setting Type <input type="checkbox"/> Deep Rod <input checked="" type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size
Stamping <i>VHM-3 2002</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>USACE</i>
Photo Ctrl Target Type <i>N/A</i>	



VHM 3, DF9045, 1, 24FEB2016



VHM 3, DF9045, 2, 24FEB2016



VHM 3, DF9045, 3E, 24FEB2016



VHM 3, DF9045, 3N, 24FEB2016



VHM 3, DF9045, 3S, 24FEB2016

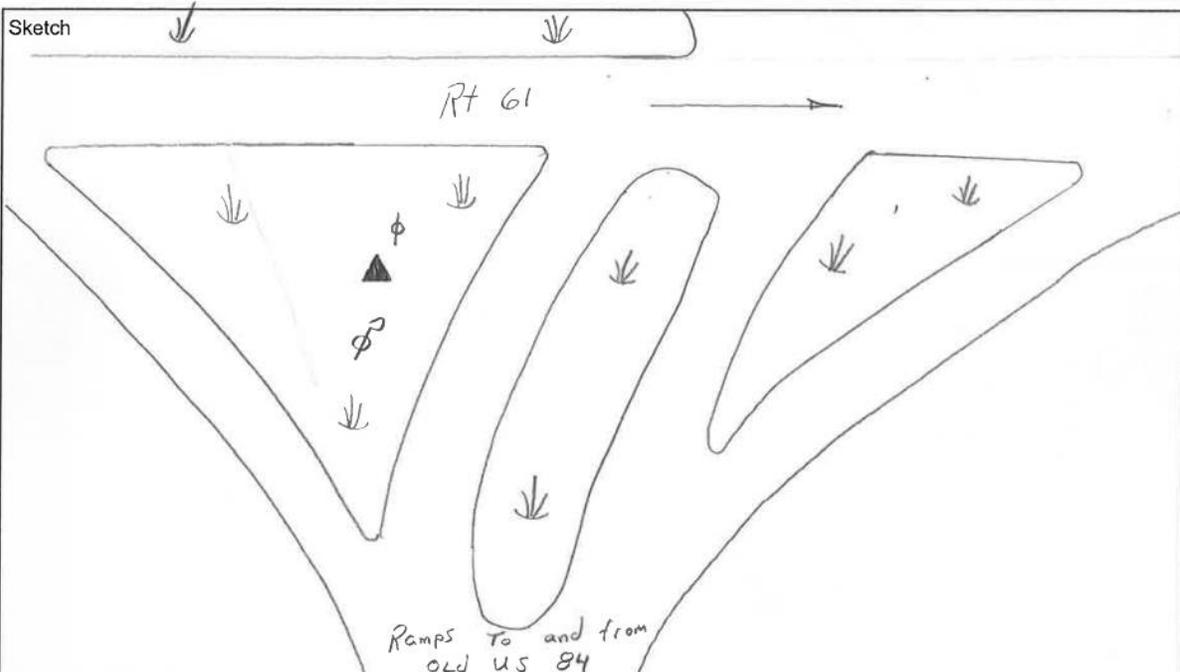


VHM 3, DF9045, 3W, 24FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>Washington</i>	PID <i>BW0892</i>	Location <b>Mississippi</b>	Date <i>2 / 18 / 2016</i>
<input type="radio"/> PACS <input type="radio"/> SACS <input type="radio"/> TACS <input checked="" type="radio"/> BM <input type="radio"/> FBN <input type="radio"/> CBN <input type="radio"/> Other _____		Observer <b>Bill Welbaum</b>	Organization <b>Woolpert Inc.</b>



Disk Detail  Photos Available

Monument is:

- A. Most stable
- B. Excellent
- C. Good
- D. Poor

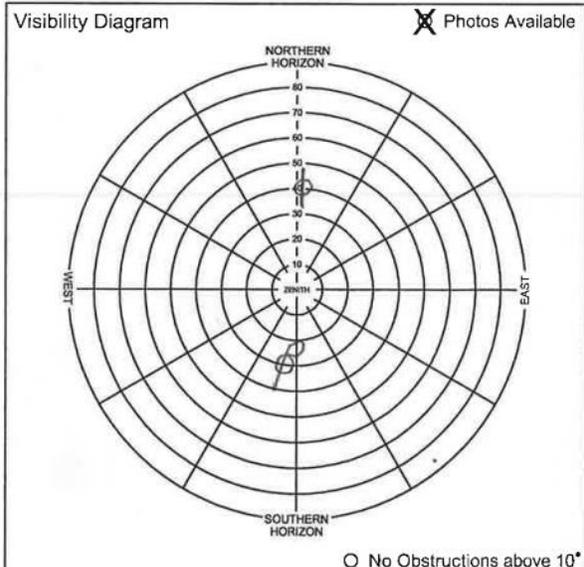


Monument is:

- Recessed *13* cm
- Flush with ground
- Projecting \_\_\_\_\_ cm

Disk is set:

- in bedrock.
- in concrete.
- in structure.



# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>Washington</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>36930490</i>	<input type="checkbox"/> RTK File
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Observer Full Name <b>Bill Welbaum</b>	Home Office <b>Dayton</b>
Observer email <b>William.Welbaum@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1326</b> Cell - <b>937.284.0258</b>	

Start Time <i>8 : 06</i> utc <i>7 : 06</i> local	Stop Time <i>6 : 39</i> utc <i>5 : 39</i> local	Calendar Date <i>2/18/2016</i>
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID <i>BW0892</i>	Sta. SSN	Sta. ID <i>Wash.</i>	Session <i>1</i>	Julian Day <i>049</i>
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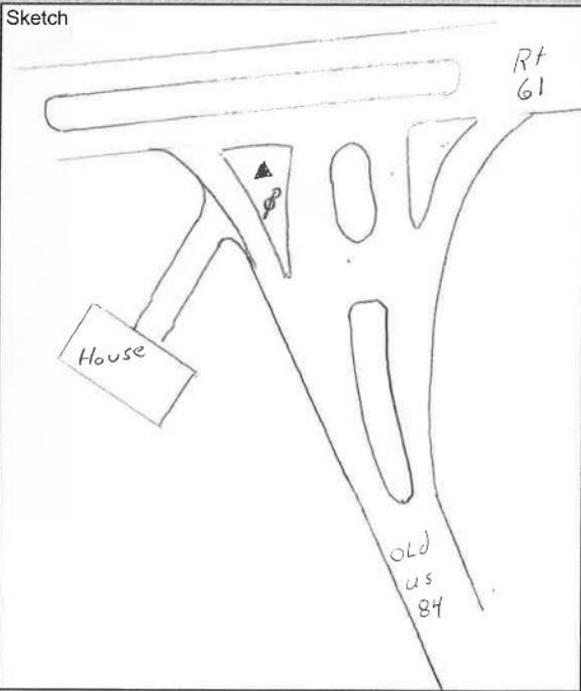
Latitude <i>N 31 ° 34 ' 43.75 "</i>	Longitude <i>W 91 ° 17 ' 58.76 "</i>
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Antenna Ht. (before; include add. offsets) <i>2.00 M 6.562</i>	E-Height <i>194.242</i>
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Ant. Ht. Measured To  Bottom of Ant. Mt.  Other: Ground Plane  Yes  No

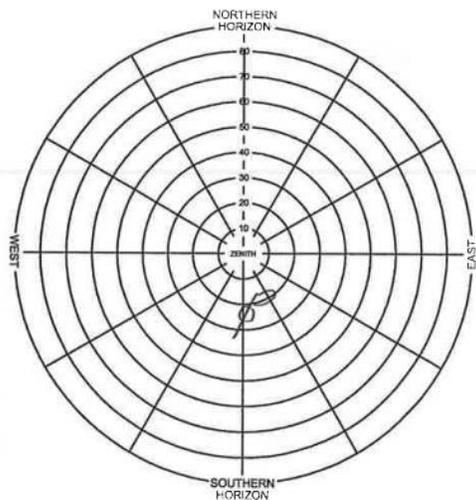
Tripod Type  
 Fixed-Ht.  Slip-leg  Fixed mount  Bi-pod

Receiver P/N <i>R8 Mod 2</i> S/N <i>3693</i>	Antenna P/N <i>R8 Mod 2</i> S/N <i>3693</i>
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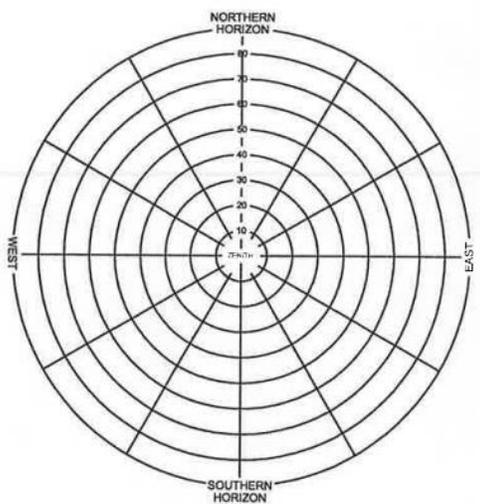
Location Description / Comments

Visibility Diagram  Photos Available



No Obstructions above 10'

Setting Type <input type="checkbox"/> Deep Rod <input checked="" type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size
Stamping <i>Washington 1942</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>NGS</i>
Photo Ctrl Target Type <i>N/A</i>	

<h2 style="margin: 0;">76268 Mississippi NRCS 2016 LiDAR GPS Control Logs</h2>					
Station Designation <i>Washington</i>		Airport LID & State <b>Mississippi</b>		Data File Name <i>36930500</i> <input type="checkbox"/> RTK File	
Observer Full Name <b>Bill Welbaum</b>		Home Office <b>Dayton</b>		Start Time <i>7 : 38</i> <small>utc</small>	
Observer email <b>William.Welbaum@Woolpert.com</b>		Stop Time <i>4 : 52</i> <small>utc</small>		Calendar Date <i>2/19/2016</i>	
Observer Phone Office - <b>937 . 531 . 1326</b> Cell - <b>937.284.0258</b>		Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input type="checkbox"/> Photo Control <input type="checkbox"/> Other:		Station PID	
Sketch  <div style="text-align: center; font-style: italic; padding: 20px 0;">                     See previous observation for sketch                 </div>		Latitude <i>N 31 ° 34 '43.75 "</i>		Longitude <i>W 91 ° 17 '58.76 "</i>	
		Antenna Ht. (before, include add. offsets) <i>200 M 6.5625ft</i>		E-Height <i>194.19</i>	
		Ant. Ht. Measured To <input type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:		Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input type="checkbox"/> Bi-pod		Receiver P/N <i>R8 Mod 2</i> S/N <i>3693</i>	
		Antenna P/N <i>R9 Mod 2</i> S/N <i>3693</i>		Antenna P/N <i>R9 Mod 2</i> S/N <i>3693</i>	
Location Description / Comments		Visibility Diagram <input checked="" type="checkbox"/> Photos Available  			
Setting Type <input type="checkbox"/> Deep Rod <input checked="" type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.		Monument Size		<input type="checkbox"/> No Obstructions above 10°	
Stamping		Inscription (i.e. NGS, Woolpt, etc.)			
Photo Ctrl Target Type					



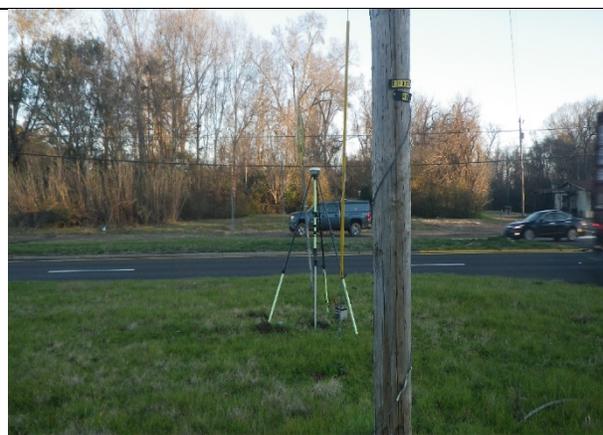
WASHINGTON, BW0892, 1, 18FEB2016



WASHINGTON, BW0892, 2, 18FEB2016



WASHINGTON, BW0892, 3E, 18FEB2016



WASHINGTON, BW0892, 3N, 18FEB2016



WASHINGTON, BW0892, 3S, 18FEB2016

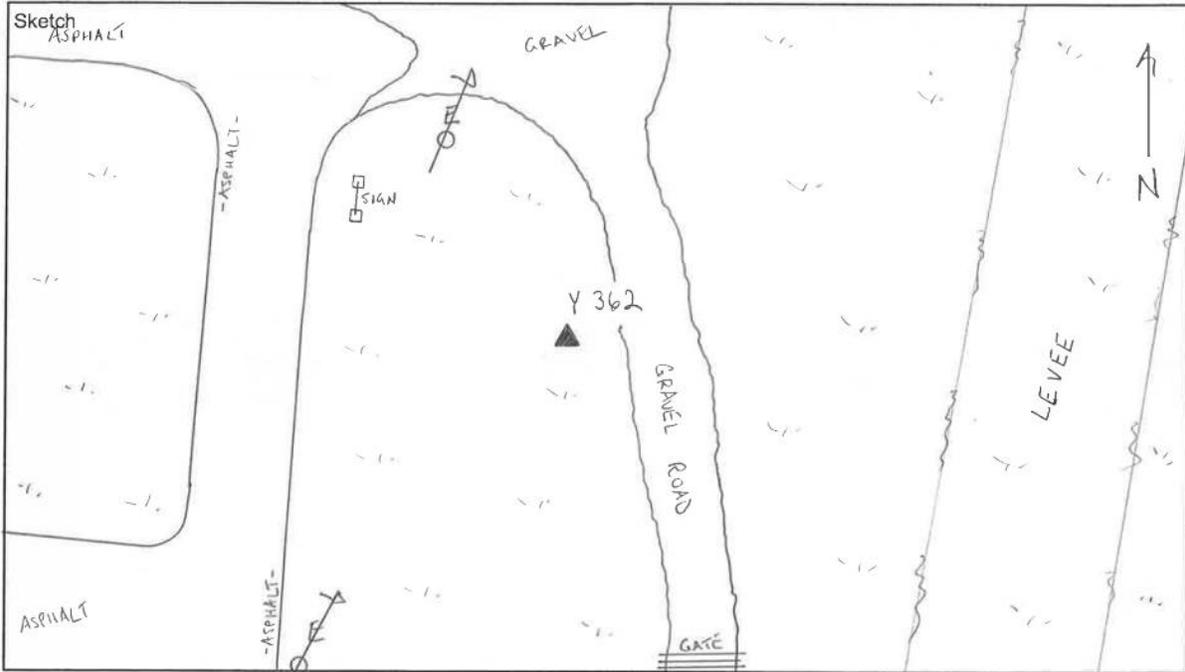


WASHINGTON, BW0892, 3W, 18FEB2016

76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

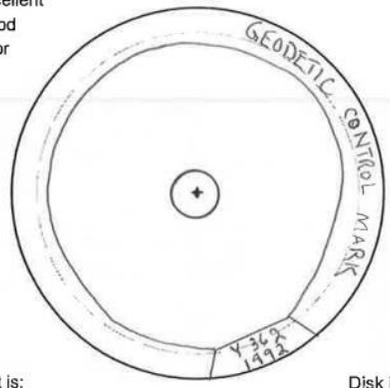


Station Designation Y 362	PID CP3432	Location Mississippi	Date 02/22/2016
<input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TACS <input type="checkbox"/> BLM <input type="checkbox"/> FBN <input checked="" type="checkbox"/> CBN <input type="checkbox"/> Other _____	Observer <b>Zach Leesemann</b>	Organization <b>Woolpert Inc.</b>	



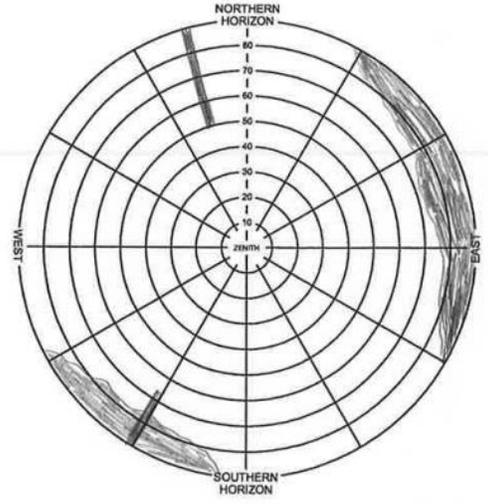
Disk Detail  Photos Available

- Monument is:
- A. Most stable
  - B. Excellent
  - C. Good
  - D. Poor



- Monument is:
- Recessed \_\_\_\_cm
  - Flush with ground
  - Projecting \_\_\_\_cm
- Disk is set:
- in bedrock.
  - in concrete.
  - in structure.

Visibility Diagram  Photos Available



# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation Y 362	Airport LID & State <b>Mississippi</b>	Data File Name Y_362_4235030_T02	<input type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time 7 : 47 local	Stop Time 17 : 56 local	Calendar Date 02/22/2016
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID CP3432	Sta. SSN -	Sta. ID Y 362	Session -	Julian Day 053
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Latitude N 32° 18' 07.28"	Longitude W 90° 09' 42.50"
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Antenna Ht. (before; include add. offsets) 2.00 m	E-Height 53.912 m
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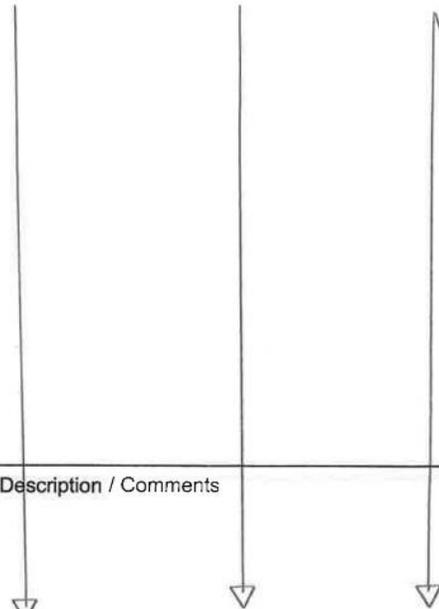
Ant. Ht. Measured To  
 Bottom of Ant. Mt.  Other:  Yes  No

Tripod Type  
 Fixed-Ht.  Slip-leg  Fixed mount  Bi-pod

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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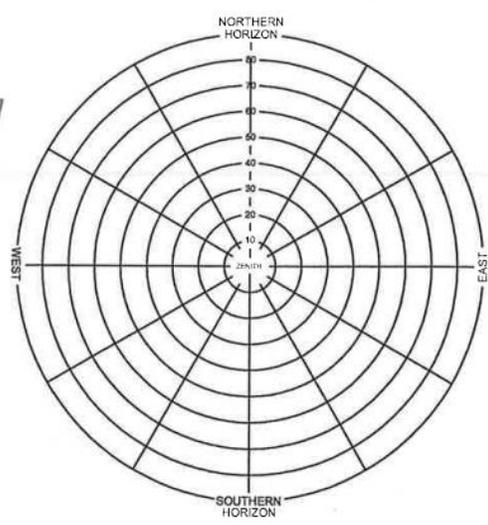
Sketch

SEE S.R.L.



Location Description / Comments

Visibility Diagram  Photos Available



Setting Type <input checked="" type="radio"/> Deep Rod <input type="radio"/> Concrete Mon. <input type="radio"/> Fixed Mt.	Monument Size ≈ 5.0"
Stamping Y 362 1492	Inscription (i.e. NGS, Woolpt, etc.) NGS
Photo Ctrl Target Type N/A	

No Obstructions above 10'

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>Y 362</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>Y_362_42350540_To2</i>	<input type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : <i>7 : 05</i> local	Stop Time : : <i>17 : 33</i> local	Calendar Date <i>02/23/2016</i>
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID <i>CP3432</i>	Sta. SSN —	Sta. ID <i>Y 362</i>	Session —	Julian Day <i>054</i>
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Latitude <i>N 32 ° 18 '07.28 "</i>	Longitude <i>W 90 ° 09 '42.50 "</i>
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Antenna Ht. (before; include add. offsets) <i>2.00 m</i>	E-Height <i>53.912 m</i>
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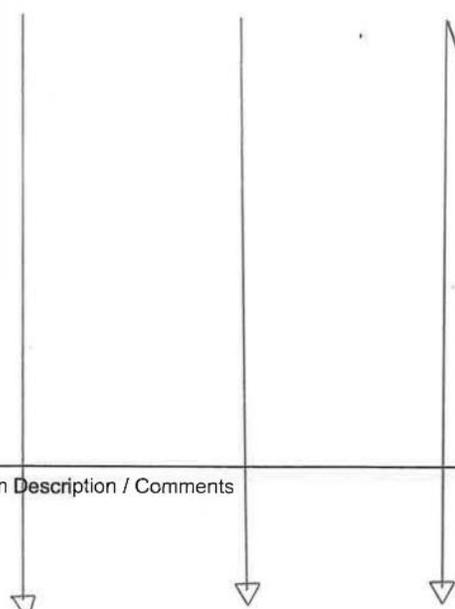
Ant. Ht. Measured To  
 Bottom of Ant. Mt.  Other:  Yes  No

Tripod Type  
 Fixed-Ht.  Slip-leg  Fixed mount  Bi-pod

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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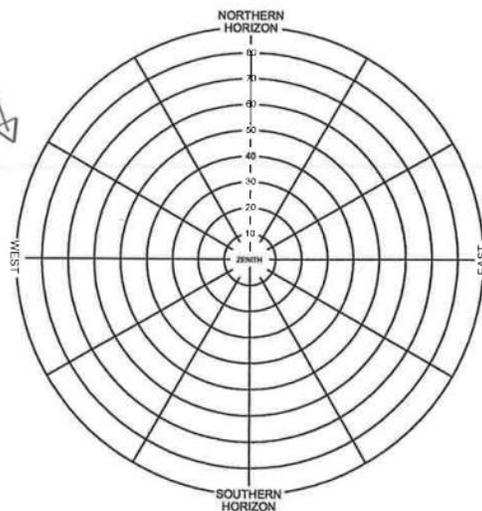
Sketch

*SEE PREVIOUS*



Location Description / Comments
---------------------------------

Visibility Diagram  Photos Available



Setting Type <input checked="" type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <i>≈ 5 00</i>
Stamping <i>Y 362 1992</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>NGS</i>
Photo Ctrl Target Type <i>N/A</i>	

No Obstructions above 10'

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation Y 362	Airport LID & State <b>Mississippi</b>	Data File Name Y_362_42350550_T02	<input type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeseemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : 7 : 14 local	Stop Time : 21 : 04 local	Calendar Date 02/24/2016
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Station Classification  
 FBN  CBN  BM  OPACS  OSACS  OTSM  
 EoR  NAVAID  Photo Control  Other:

Station PID CP3432	Sta. SSN —	Sta. ID Y362	Session —	Julian Day 055
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Latitude N 32 ° 18 ' 07.28 "	Longitude W 90 ° 09 ' 42.50 "
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Antenna Ht. (before; include add. offsets) 2.00 m	E-Height 53.912 m
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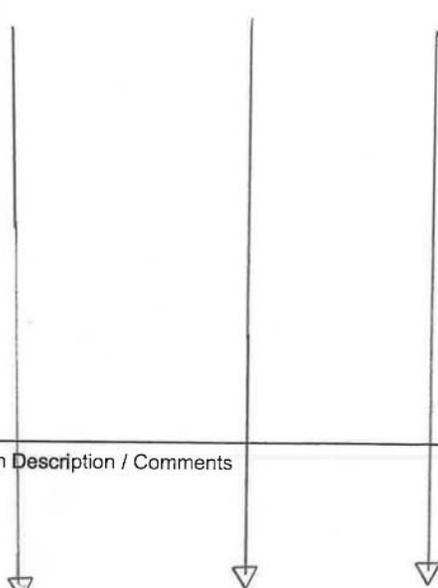
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="radio"/> Other:	Ground Plane <input type="radio"/> Yes <input checked="" type="checkbox"/> No
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Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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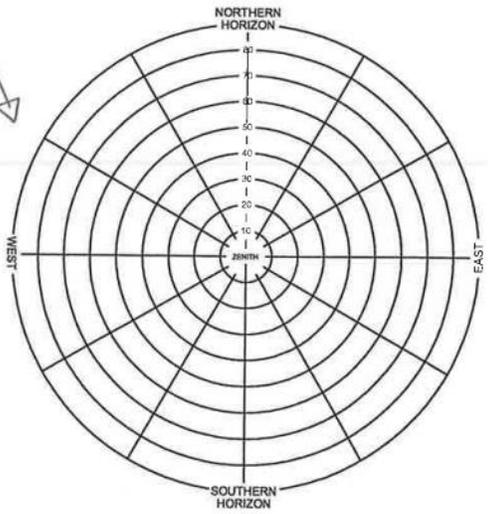
Sketch

SEE PREVIOUS



Location Description / Comments

Visibility Diagram  Photos Available



Setting Type <input checked="" type="radio"/> Deep Rod <input type="radio"/> Concrete Mon. <input type="radio"/> Fixed Mt.	Monument Size ≈ 5.00"
Stamping Y 362 1992	Inscription (i.e. NGS, Woolpt, etc.) NGS
Photo Ctrl Target Type N/A	

No Obstructions above 10'





Y 362, CP3432, 1, CBN, 22FEB2016



Y 362, CP3432, 2, CBN, 22FEB2016



Y 362, CP3432, 3E, CBN, 22FEB2016



Y 362, CP3432, 3N, CBN, 22FEB2016

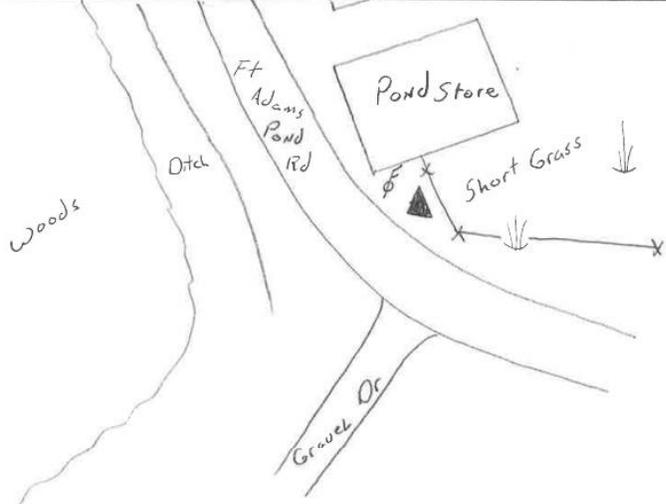
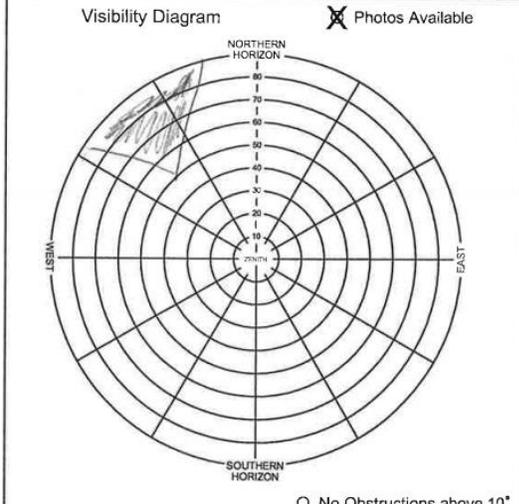


Y 362, CP3432, 3S, CBN, 22FEB2016



Y 362, CP3432, 3W, CBN, 22FEB2016

# LiDAR Control Stations

76268 Mississippi NRCS 2016 LiDAR GPS Control Logs			
LiDAR Control point # <b>1</b>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>	
Latitude <b>N 31 ° 04 ' 13.00 "</b>	Longitude <b>W 91 ° 30 ' 32.41 "</b>	Calendar Date <b>2 / 17 / 2016</b>	Observer Initials <b>BW</b>
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>Start 4:24 End 4:59 File 88280489</p> </div> <div style="width: 65%;">  </div> </div> <div style="text-align: right; margin-top: 20px;"> <p>Visibility Diagram <span style="font-size: small;">✕ Photos Available</span></p>  <p style="text-align: right; font-size: x-small;">○ No Obstructions above 10°</p> </div>			



**1, 3E, 17FEB2016**

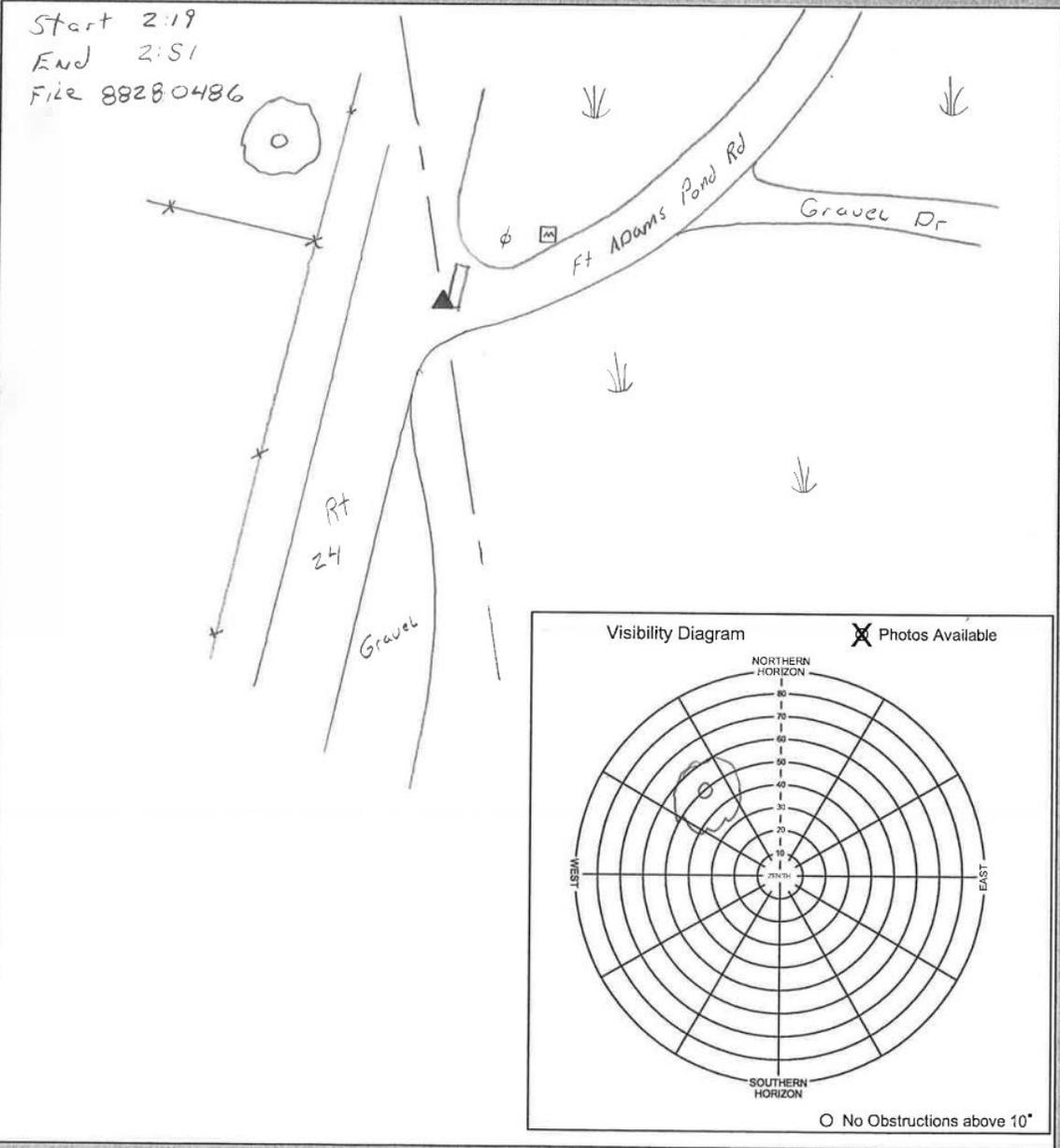


**1, 3N, 17FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <b>2</b>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>	
Latitude <b>N 31 ° 05 ' 15.95 "</b>	Longitude <b>W 91 ° 32 ' 49.42 "</b>	Calendar Date <b>2 / 17 / 2016</b>	Observer Initials <b>BW</b>





**2, 3N, 17FEB2016**

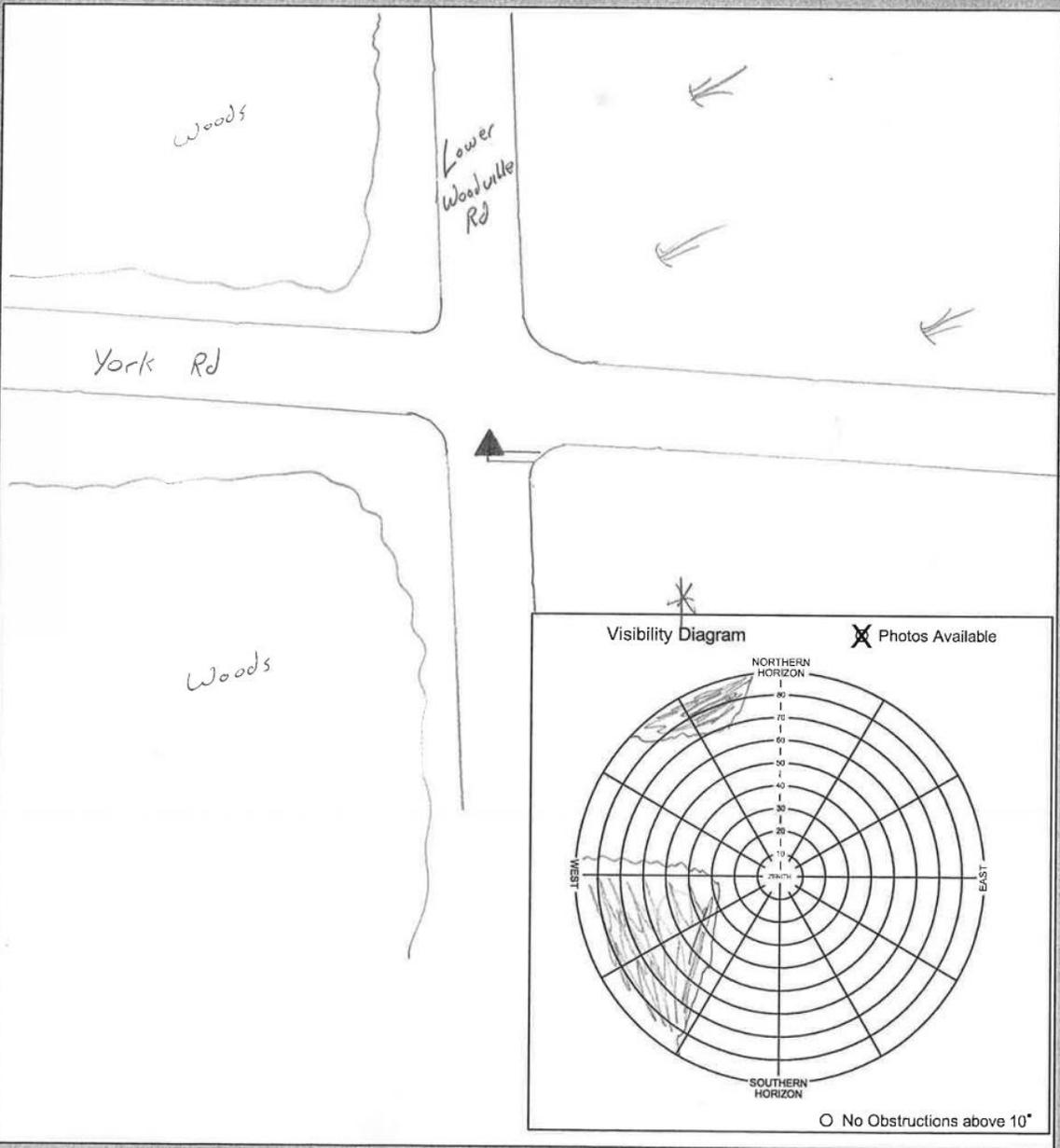


**2, 3W, 17FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # 3	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>	
Latitude <b>N 31 ° 22 ' 43.94 "</b>	Longitude <b>W 91 ° 23 ' 49.03 "</b>	Calendar Date 2 / 19 / 2016	Observer Initials <b>BW</b>





**3, 3E, 19FEB2016**



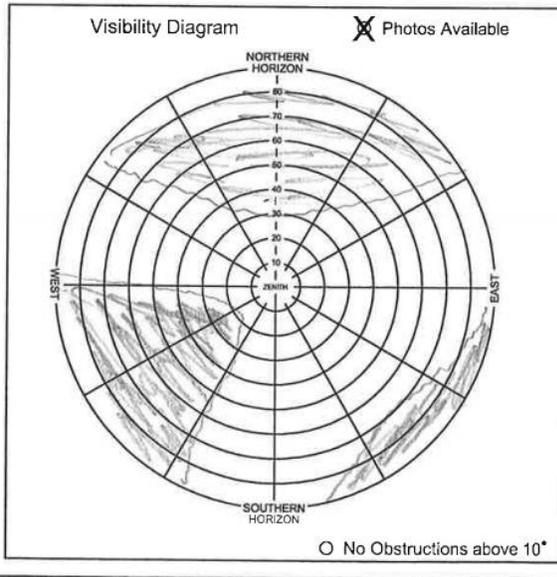
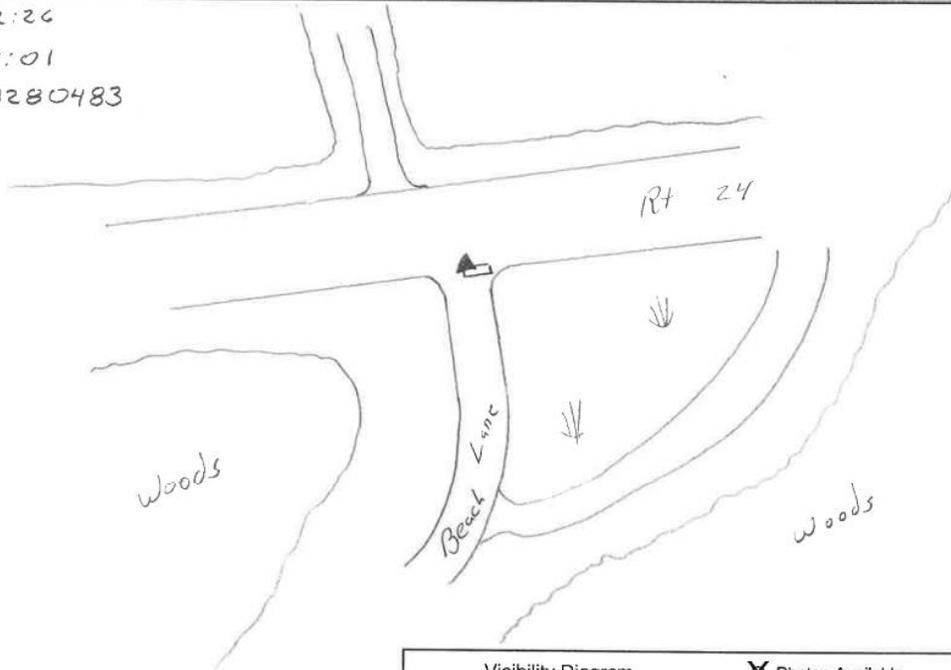
**3, 3N, 19FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # 41	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude N 31 °09 '09.68 "	Longitude W 91 °27 '23.31 "	Calendar Date 2 /17 /2016
		Observer Initials <b>BW</b>

Start 12:26  
 End 1:01  
 File 88280483





**4, 3E, 17FEB2016**

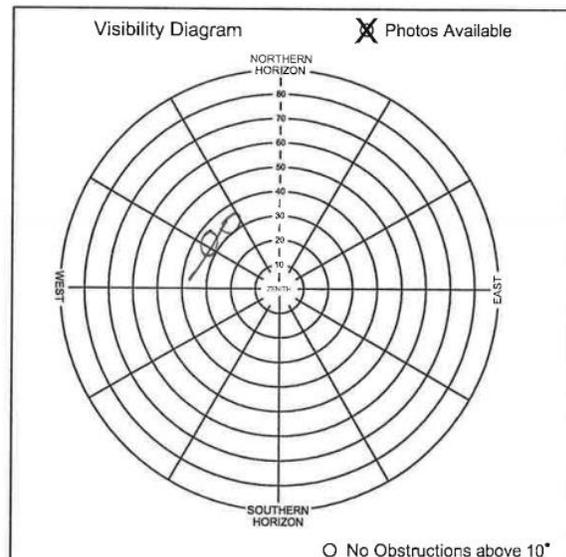
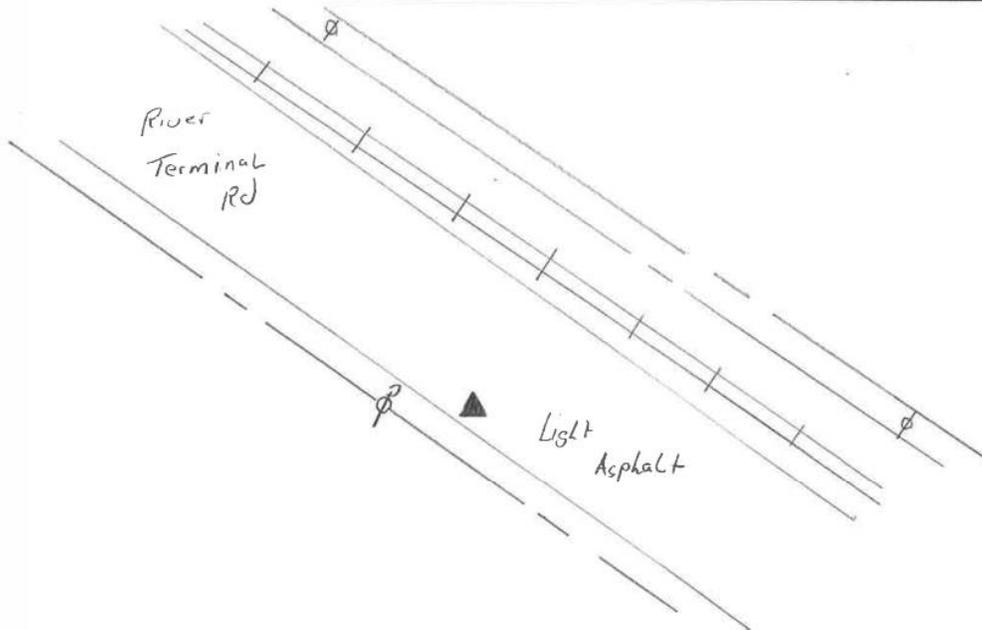


**4, 3N, 17FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LIDAR Control point # <i>5</i>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 31° 31' 59.58"</b>	Longitude <b>W 91° 26' 20.96"</b>	Calendar Date <i>2/18/2016</i>
		Observer Initials <b>BW</b>





**5, 3E, 18FEB2016**

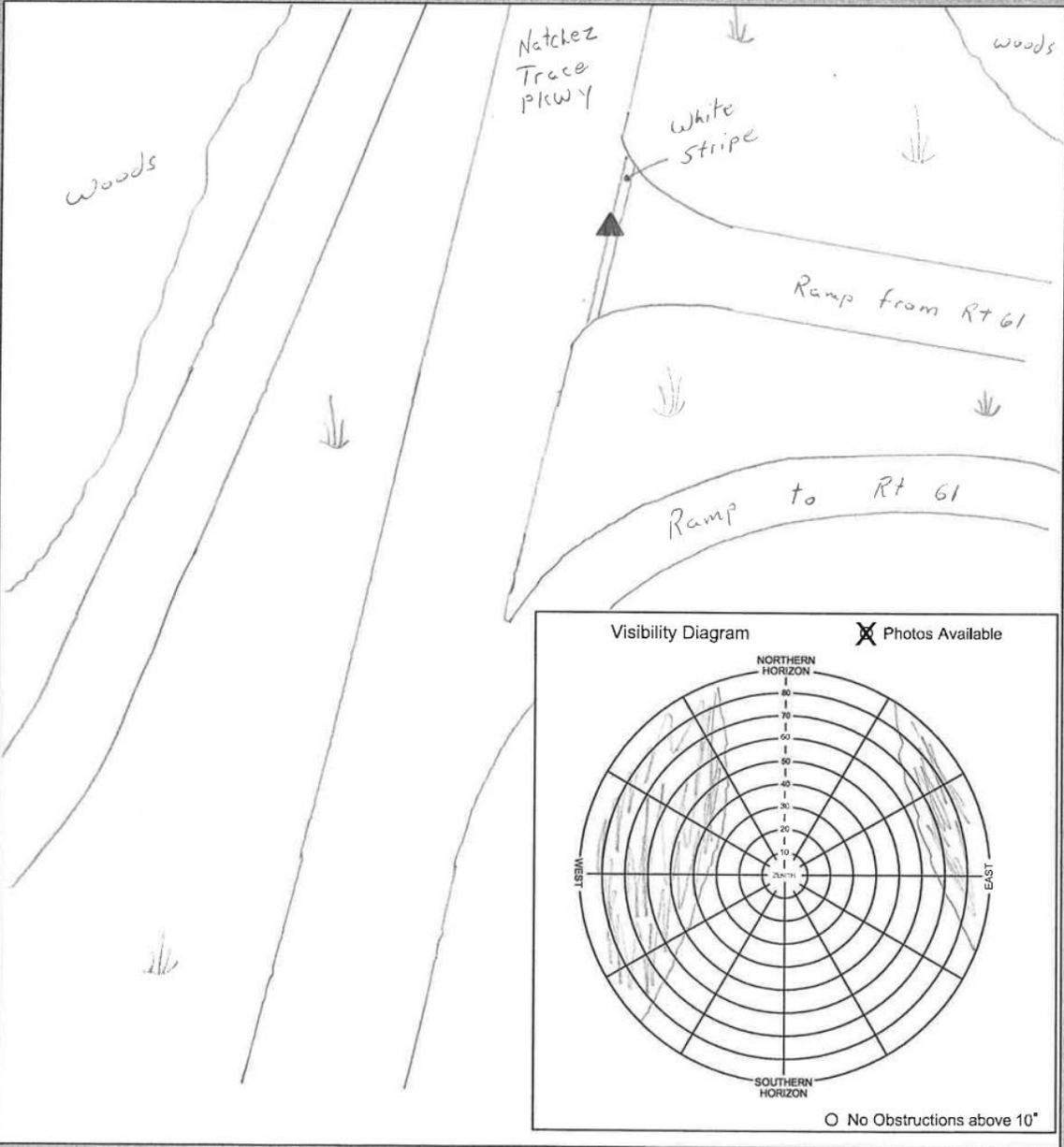


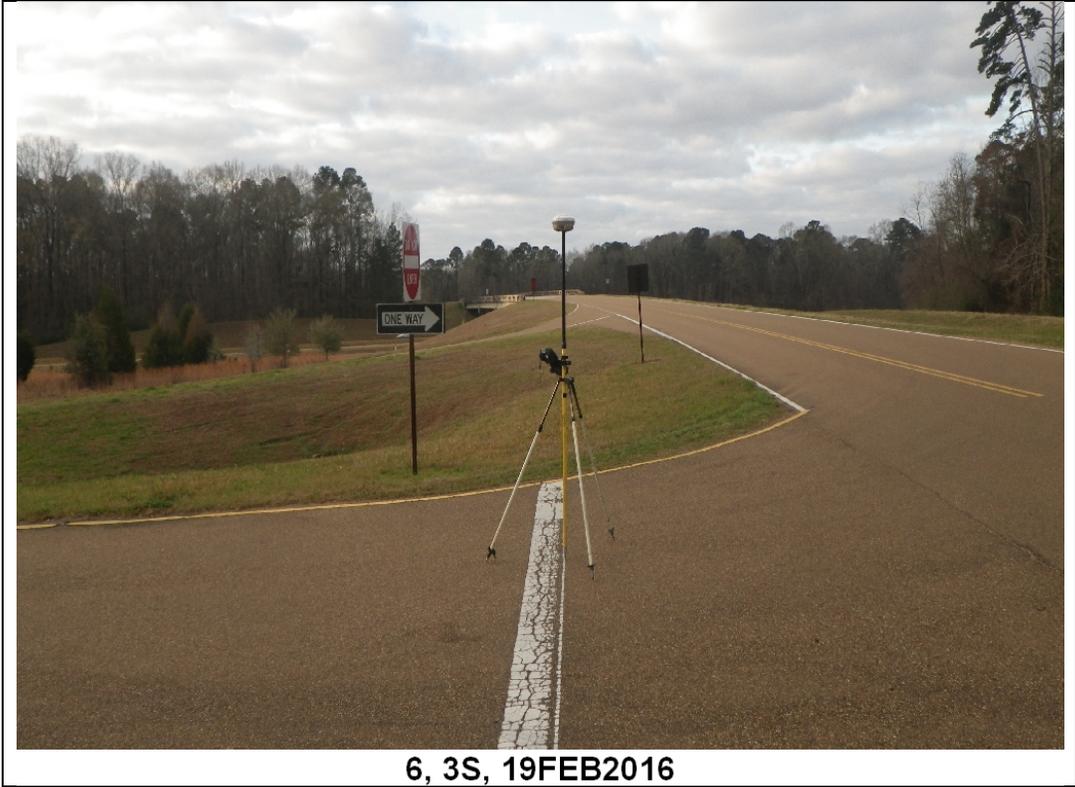
**5, 3N, 18FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <b>6</b>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>	
Latitude <b>N 31° 36' 39.29"</b>	Longitude <b>W 91° 15' 41.38"</b>	Calendar Date <b>2 / 19 / 2016</b>	Observer Initials <b>BW</b>

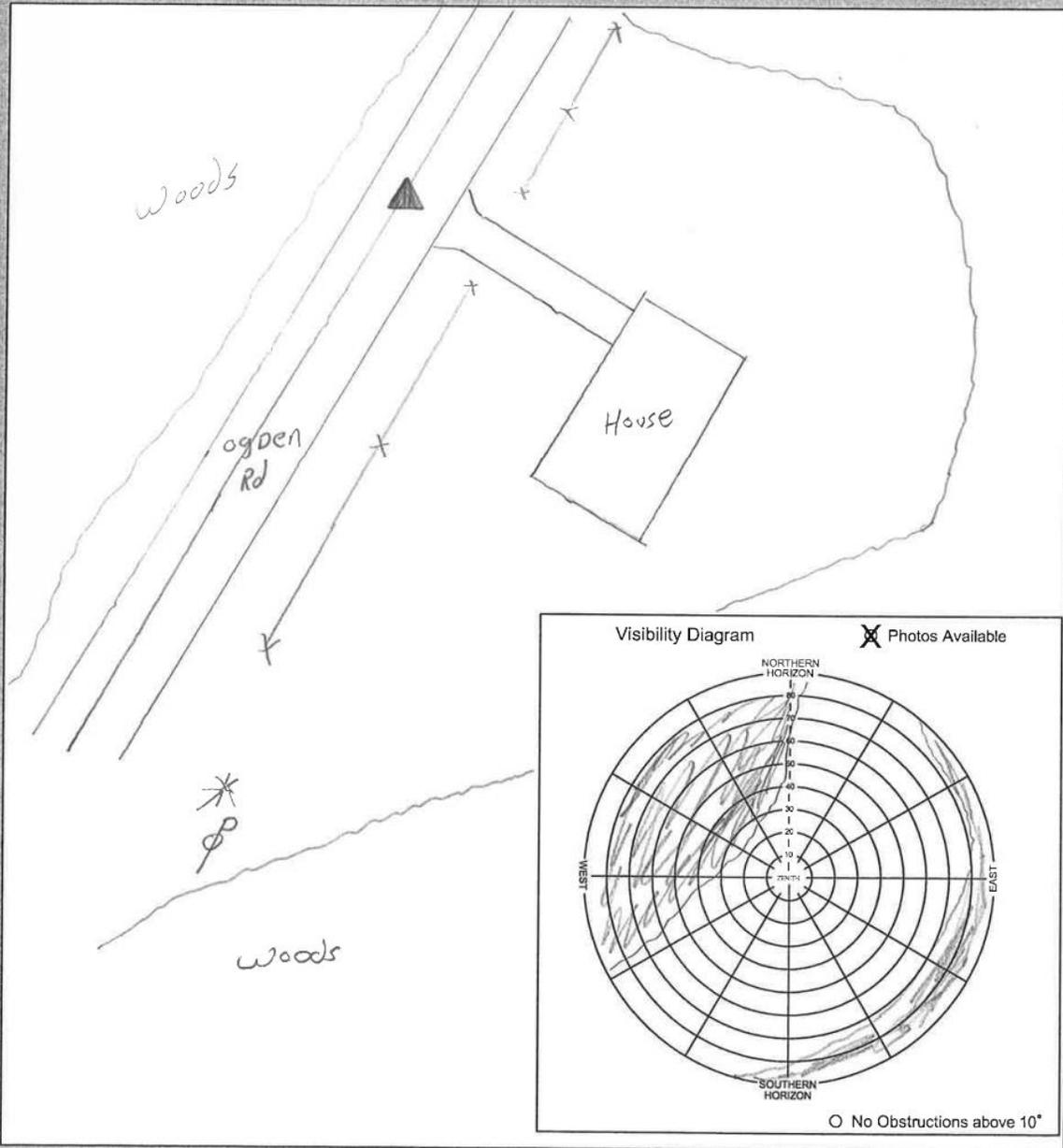




# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <b>7</b>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 31 ° 27 ' 11.12 "</b>	Longitude <b>W 91 ° 19 ' 22.50 "</b>	Calendar Date <b>2 / 19 / 2016</b>
		Observer Initials <b>BW</b>





**7, 3E, 19FEB2016**

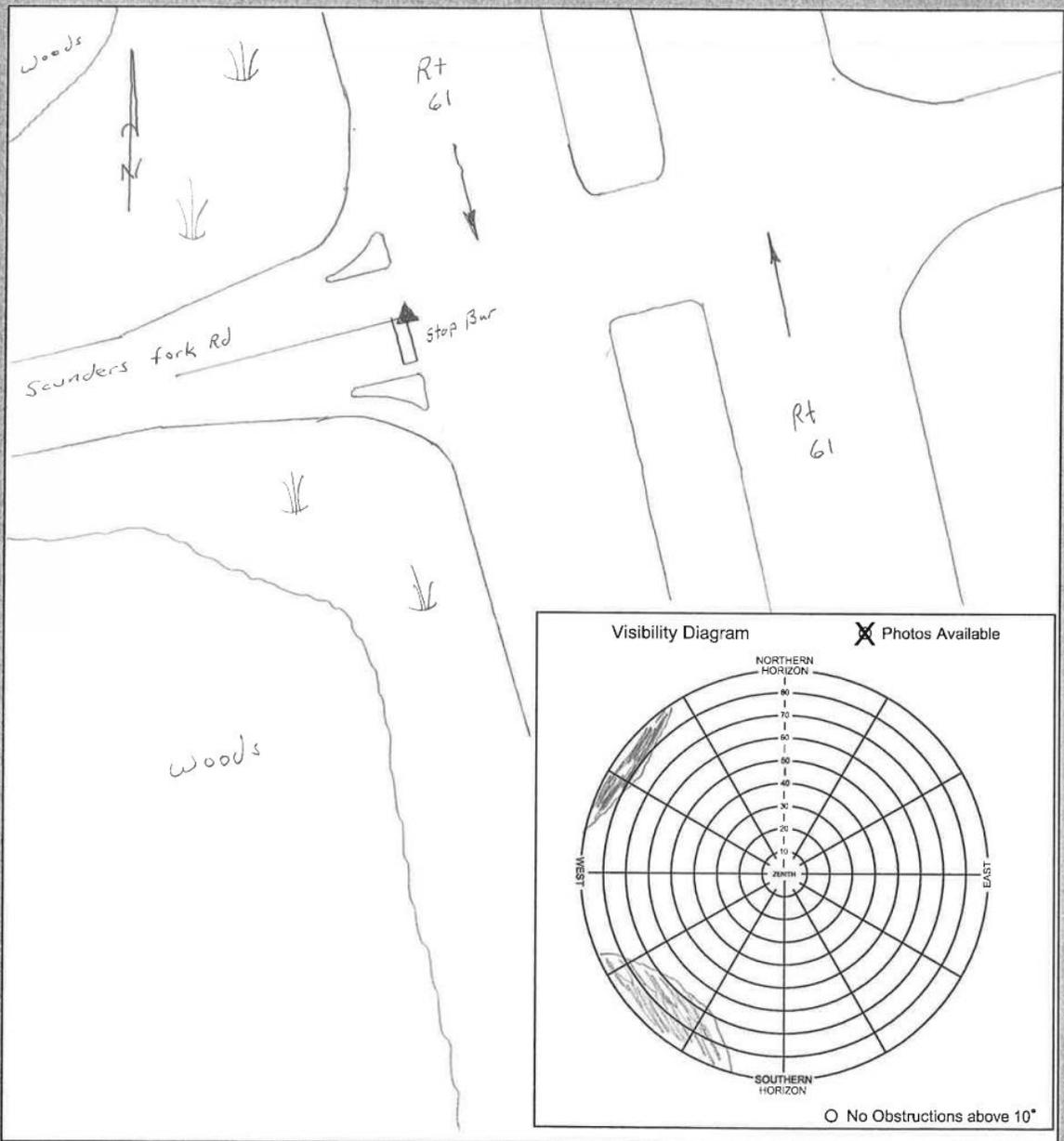


**7, 3N, 19FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # 8	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>	
Latitude <b>N 31° 15' 43.18"</b>	Longitude <b>W 91° 19' 52.29"</b>	Calendar Date 2/16/2015	Observer Initials <b>BW</b>





**8, 3E, 16FEB2016**



**8, 3N, 16FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <p style="text-align: center;">9</p>	Airport LID & State <p style="text-align: center;"><b>Mississippi</b></p>	Data File Name <span style="float: right;"><input checked="" type="checkbox"/> RTK File</span> <p style="text-align: center;">76268_02172016-ZRL Job</p>
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : 16 : 45 local	Stop Time : 16 : 50 local	Calendar Date 02/17/2016
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Station Classification  
 FBN    CBN    BLM    OPACS    SACS    TSM  
 EoR    NAVAID    Photo Control    Other:

Station PID	Sta. SSN	Sta. ID <p style="text-align: center;">9</p>	Session <p style="text-align: center;">-</p>	Julian Day <p style="text-align: center;">048</p>
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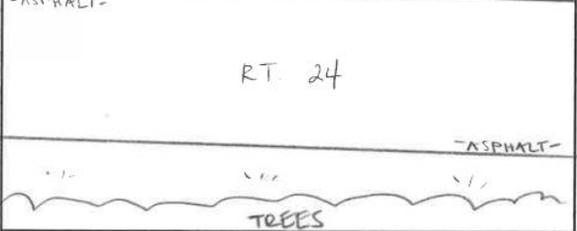
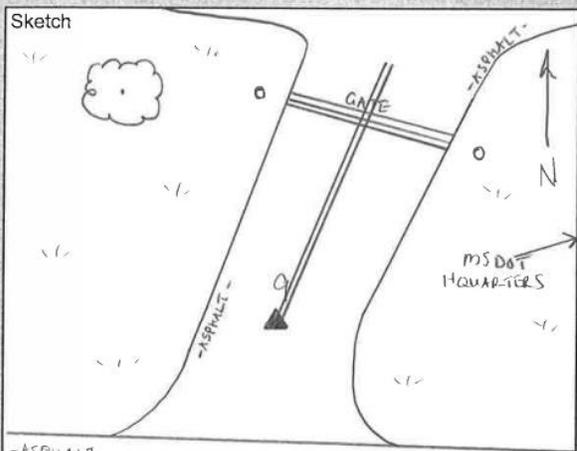
Latitude <b>N 31 ° 05 ' 15.27 "</b>	Longitude <b>W 91 ° 14 ' 47.90 "</b>
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Antenna Ht. (before; include add. off/sets) <b>2.00 m</b>	E-Height <b>295.946 sft</b>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	
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Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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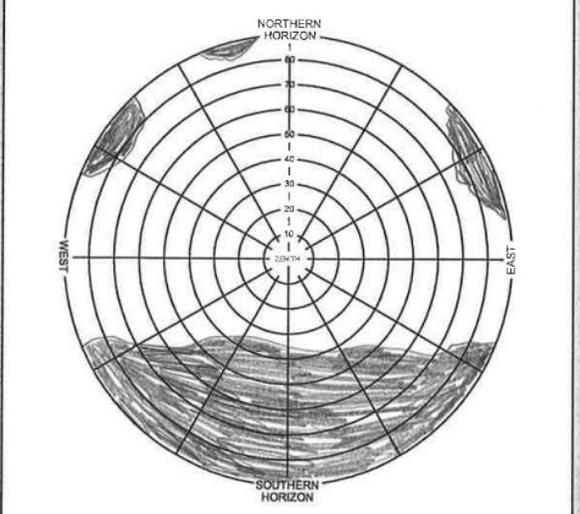


Location Description / Comments

X

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <p style="text-align: center;">N/A</p>
Stamping <p style="text-align: center;">N/A</p>	Inscription (i.e. NGS, Woolpt, etc.) <p style="text-align: center;">N/A</p>
Photo Ctrl Target Type <p style="text-align: center;">PAINT STRIPE</p>	

Visibility Diagram  Photos Available





**9, 3E, 17FEB2016**



**9, 3N, 17FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation 10	Airport LID & State <b>Mississippi</b>	Data File Name 76268_02172016_ZRL Job	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email! <b>Zach.Leeseemann@Woolpert.com</b>	
Observer Phone Office- <b>937 . 531 . 1211</b> Cell- <b>937 . 684 . 0558</b>	

Start Time 16 : 01 local	Stop Time 16 : 06 local	Calendar Date 02/17/2016
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Station Classification  
 FBN  CBN  BM  OPACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID	Sta. SSN	Sta. ID 10	Session	Julian Day 048
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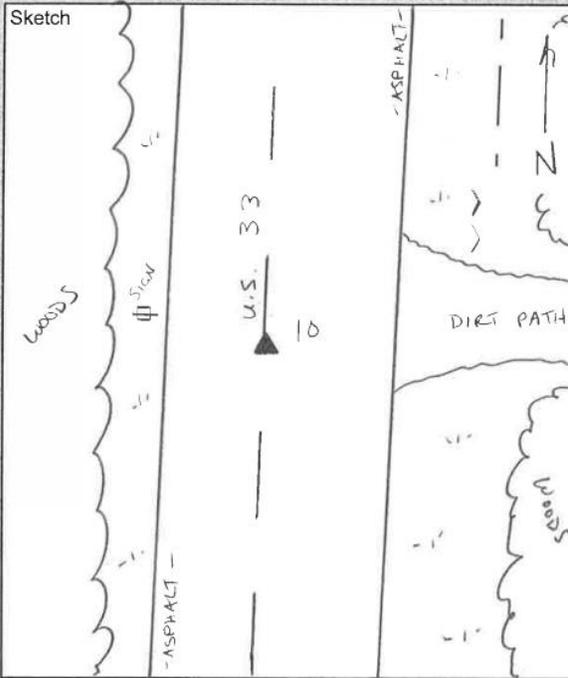
Latitude N 31 ° 00 ' 06.41 "	Longitude W 91 ° 06 ' 00.11 "
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Antenna Ht. (before; include acc. offsets) 2.00 m	E-Height 210.830 sft
--	-------------------------

Ant. Ht. Measured To  
 Bottom of Ant. Mt.  Other:  Yes  No

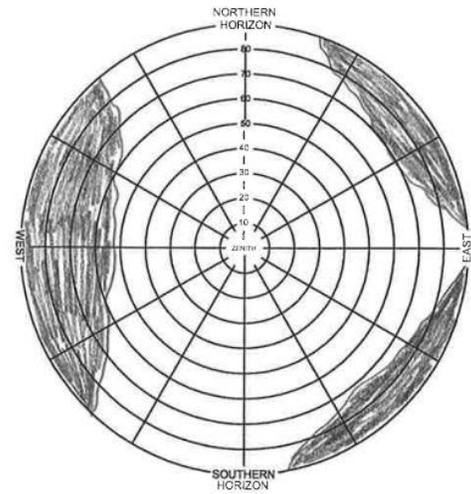
Tripod Type  
 Fixed-Ht.  Slip-leg  Fixed mount  Bi-pod

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments  
 X

Visibility Diagram  Photos Available



No Obstructions above 10'

Setting Type • MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpert, etc.) N/A
Photo Ctrl Target Type PAINT STRIPE	



**10, 3S, 17FEB2016**

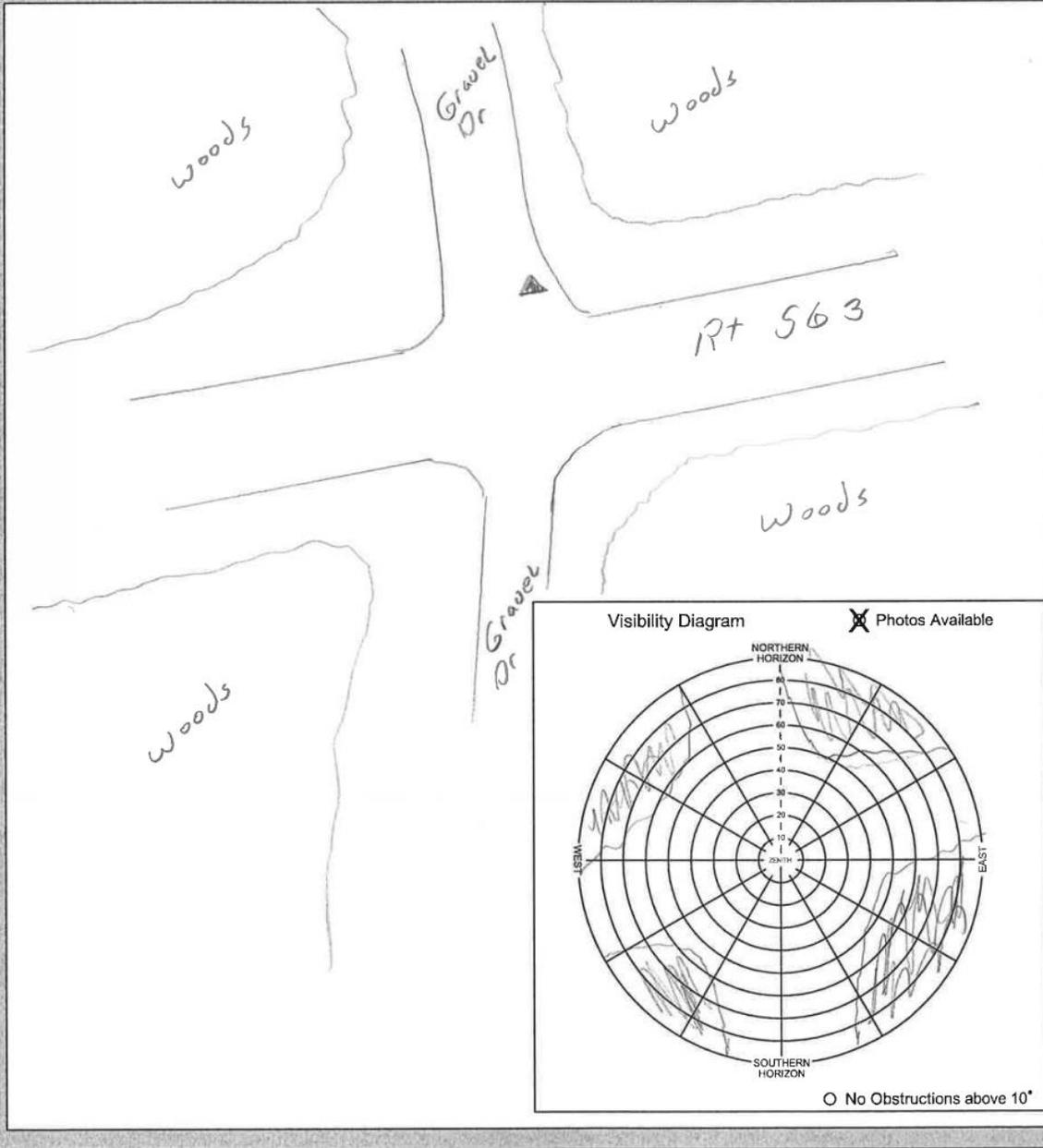


**10, 3W, 17FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <i>11</i>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>	
Latitude <i>N 31° 15' 27.14"</i>	Longitude <i>W 91° 09' 12.79"</i>	Calendar Date <i>2/16/2016</i>	Observer Initials <b>BW</b>





**11, 3E, 16FEB2016**



**11, 3N, 16FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>12</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02192016_ZRL Job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
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Observer email <b>Zach.Leeseemann@Woolpert.com</b>
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Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>
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Start Time : 12 : 02 local	Stop Time : 12 : 07 local	Calendar Date 02 / 19 / 2016
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:
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Station PID ---	Sta. SSN ---	Sta. ID 12	Session ---	Julian Day 050
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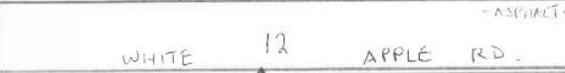
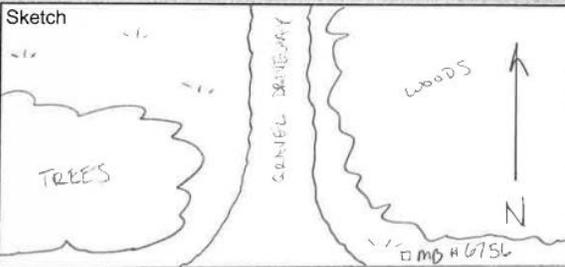
Latitude <b>N 31 ° 26 ' 36.60 "</b>	Longitude <b>W 91 ° 06 ' 09.31 "</b>
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Antenna Ht. (before, include add. offsets) 2.00 m	E-Height 117.953 sft
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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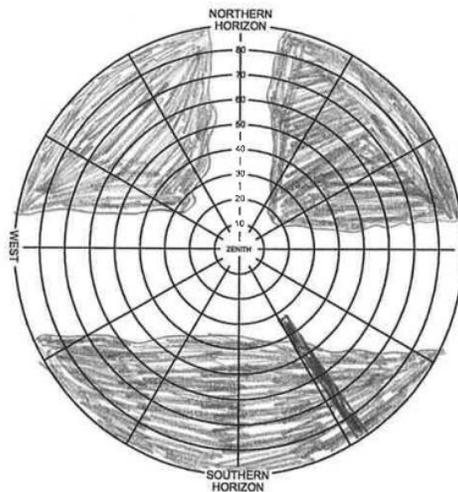
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments  
**X**

Visibility Diagram  Photos Available



No Obstructions above 10'

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type CL ASPHALT RD	



**12, 3E, 19FEB2016**



**12, 3S, 19FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation 13	Airport LID & State <b>Mississippi</b>	Data File Name 76268_02162016_ZRL.job	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time 11 : 17 local	Stop Time 11 : 25 local	Calendar Date 02/16/2016
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Station Classification					
<input type="checkbox"/> FBN	<input type="checkbox"/> CBN	<input type="checkbox"/> BM	<input type="checkbox"/> PACS	<input type="checkbox"/> SACS	<input type="checkbox"/> TSM
<input type="checkbox"/> EoR	<input type="checkbox"/> NAVAID	<input checked="" type="checkbox"/> Photo Control			<input type="checkbox"/> Other:

Station PID	Sta. SSN	Sta. ID 13	Session	Julian Day 04
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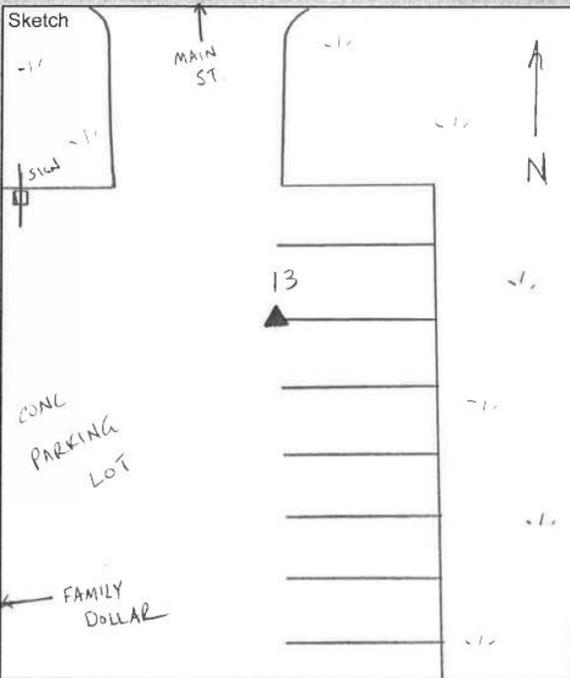
Latitude N 31° 09' 30.72"	Longitude W 90° 48' 19.31"
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Antenna Ht. (before; include add. offsets) 2.00	E-Height 267.632 sft
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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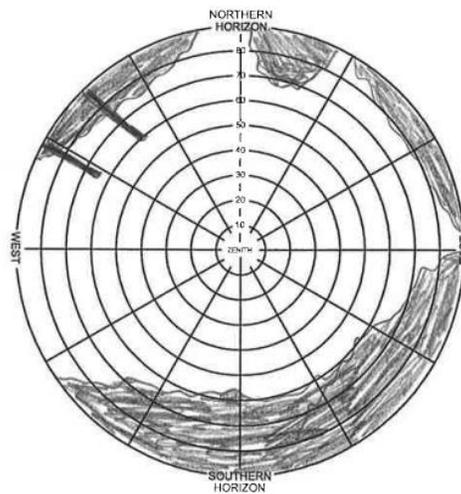
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments  X
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Visibility Diagram	<input checked="" type="checkbox"/> Photos Available
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No Obstructions above 10'

Setting Type • MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type PAINT STRIPE	



**13, 3NE, 16FEB2016**



**13, 3NW, 16FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>14</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268-02172016-ZRL.job</b>	<input checked="" type="checkbox"/> RTK File
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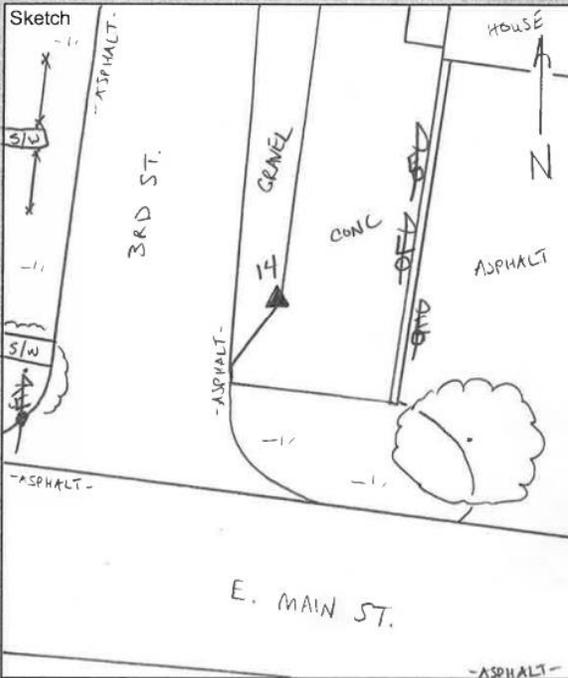
Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office- <b>937 . 531 . 1211</b> Cell- <b>937 . 684 . 0558</b>	

Start Time : 12 : 18 local	Stop Time : 12 : 29 local	Calendar Date 02/17/2016
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID <b>14</b>	Session	Julian Day <b>048</b>

Latitude <b>N 31 ° 11 '50.25 "</b>	Longitude <b>W 91 ° 01 '03.07 "</b>
Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>320.344 sft</b>
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

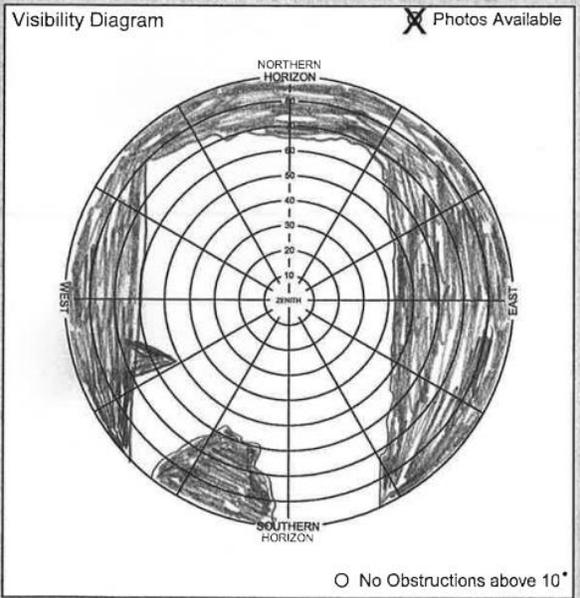
Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--



Location Description / Comments

X

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>CORNER CONC.</b>	





**14, 3S, 17FEB2016**



**14, 3W, 17FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>15</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>15_44280473.To2</b>	<input type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : utc <b>12 : 42</b> local	Stop Time : : utc <b>13 : 03</b> local	Calendar Date <b>02/16/2016</b>
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Station Classification				
<input type="radio"/> FBN	<input type="radio"/> CBN	<input type="radio"/> BM	<input type="radio"/> PACS	<input type="radio"/> SACS
<input type="radio"/> TSM	<input type="radio"/> EoR	<input type="radio"/> NAVAID	<input checked="" type="radio"/> Photo Control	<input type="radio"/> Other:

Station PID	Sta. SSN	Sta. ID <b>15</b>	Session	Julian Day <b>647</b>
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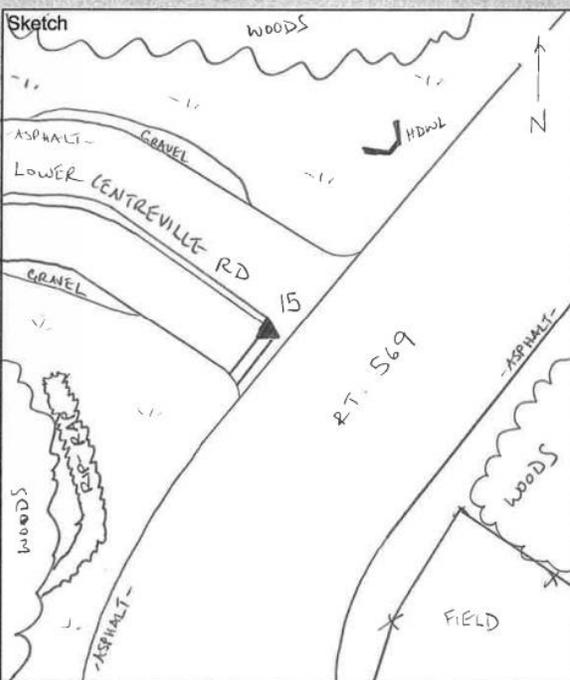
Latitude <b>N 31° 03' 18.61"</b>	Longitude <b>W 90° 53' 57.64"</b>
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Antenna Ht. (before, include add. offsets) <b>2.00 m</b>	E-Height <b>227.5 sft</b>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

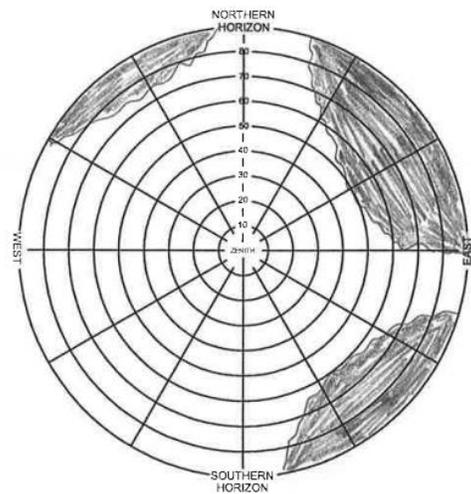
Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--



Location Description / Comments

X

Visibility Diagram	<input checked="" type="checkbox"/> Photos Available
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No Obstructions above 10'

Setting Type • MARKED POINT <input type="radio"/> Deep Rod <input type="radio"/> Concrete Mon. <input type="radio"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINT STRIPE</b>	



**15, 3NE, 16FEB2016**



**15, 3SE, 16FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

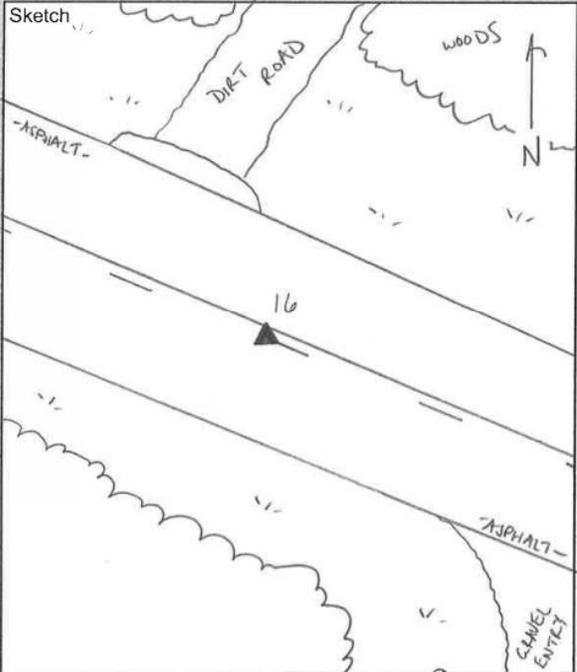


Station Designation <i>16</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>76268_02162016_ZRL.job</i>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : : <i>14 : 23</i> local	Stop Time : : : <i>14 : 28</i> local	Calendar Date <i>02/16/2016</i>
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID <i>16</i>	Session	Julian Day <i>047</i>

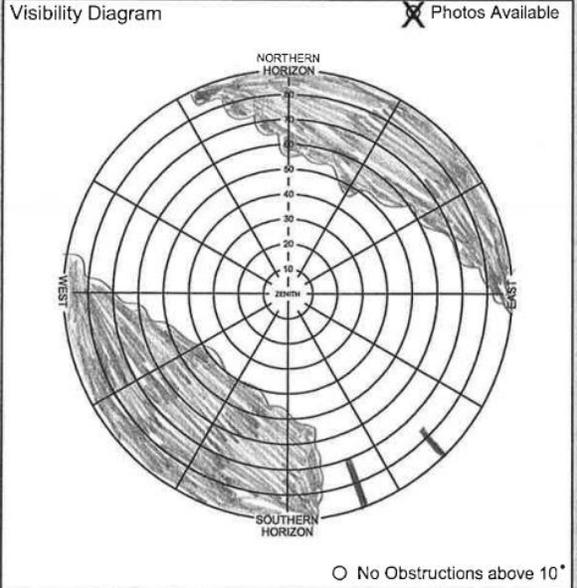


Latitude <i>N 31° 04' 55.33"</i>	Longitude <i>W 90° 41' 46.50"</i>
Antenna Ht. (before, include add. offsets) <i>2.00 M</i>	E-Height <i>260.045 SPt</i>
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments

*X*



Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <i>N/A</i>
Stamping <i>N/A</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>N/A</i>
Photo Ctrl Target Type <i>PAINT STRIPE</i>	



**16, 3NE, 16FEB2016**



**16, 3NW, 16FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

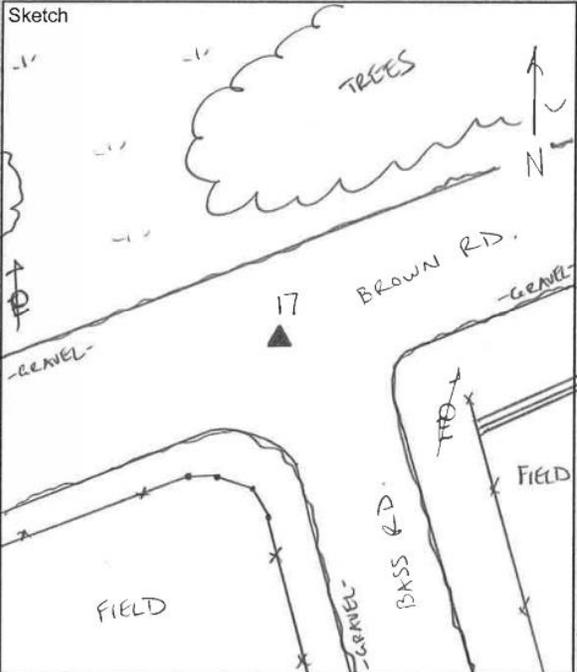


Station Designation <b>17</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02162016_ZEL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : : <b>17 : 10</b> local	Stop Time : : : <b>17 : 20</b> local	Calendar Date <b>02/16/2016</b>
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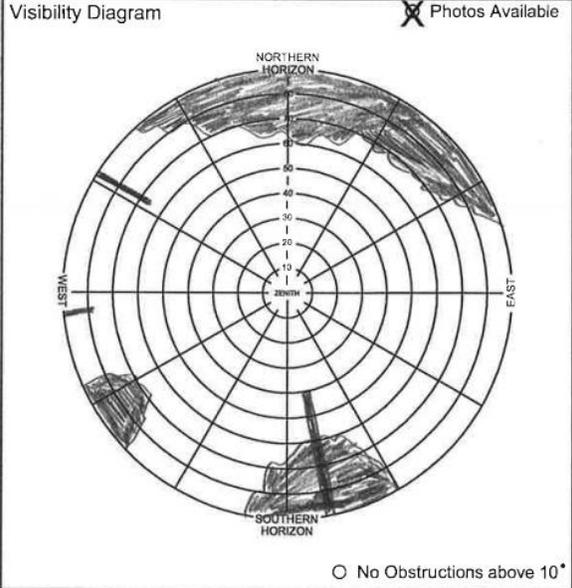
Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID	Session	Julian Day
		<b>17</b>		<b>047</b>



Latitude <b>N 31 ° 14 ' 19.41 "</b>	Longitude <b>W 90 ° 36 ' 55.00 "</b>
Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>365.429 sft</b>
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

Location Description / Comments  
**X**



Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>CL GRAVEL RD</b>	



**17, 3NE, 16FEB2016**



**17, 3S, 16FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>18</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>76268_02172016_ZRL.job</i>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
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Observer email <b>Zach.Leesemann@Woolpert.com</b>
--

Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>
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Start Time : : : 9 : 42 local	Stop Time : : : 9 : 51 local	Calendar Date <i>02/17/2016</i>
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Station Classification				
<input type="checkbox"/> FBN	<input type="checkbox"/> CBN	<input type="checkbox"/> BM	<input type="checkbox"/> PACS	<input type="checkbox"/> SACS
<input type="checkbox"/> TSM	<input type="checkbox"/> EoR	<input type="checkbox"/> NAVOID	<input checked="" type="checkbox"/> Photo Control	<input type="checkbox"/> Other:

Station PID	Sta. SSN	Sta. ID <i>18</i>	Session <i>-</i>	Julian Day <i>048</i>
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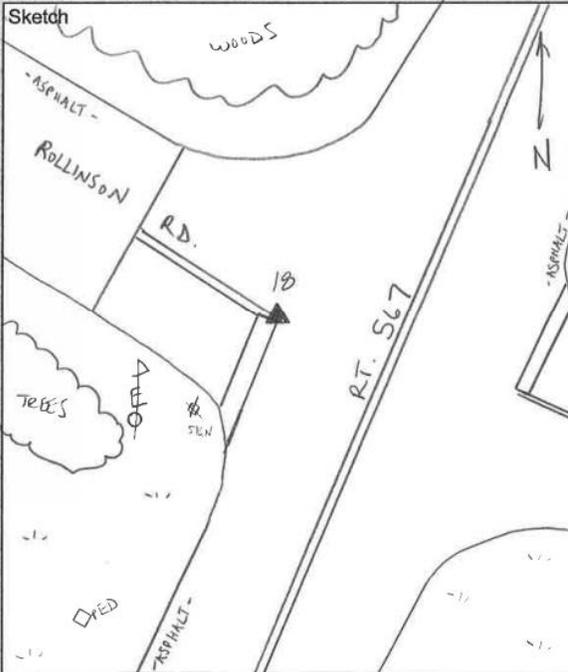
Latitude <b>N 31 ° 18 '53.98"</b>	Longitude <b>W 90 ° 49 '34.37"</b>
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Antenna Ht. (before; include add. offsets) <i>2.00 m</i>	E-Height <i>370.471 sft</i>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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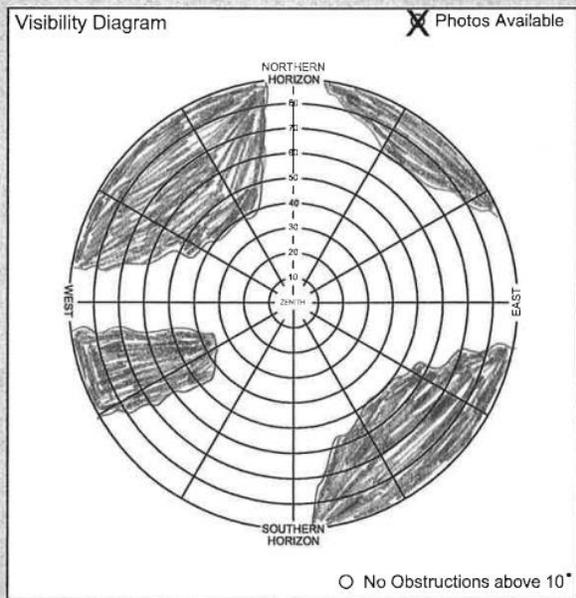
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
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Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments  
*X*

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <i>N/A</i>
Stamping <i>N/A</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>N/A</i>
Photo Ctrl Target Type <i>PAINT STRIPE</i>	





**18, 3E, 17FEB2016**



**18, 3S, 17FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

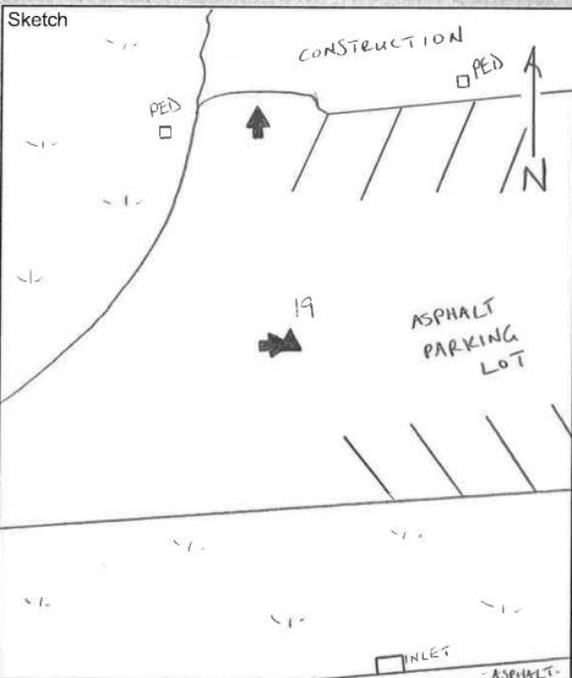


Station Designation <b>19</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02182016_ZRL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeseemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : <b>9 : 15</b> local	Stop Time : <b>9 : 22</b> local	Calendar Date <b>02/18/2016</b>
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> OPACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID <b>19</b>	Session	Julian Day <b>049</b>



Latitude <b>N 31 ° 28 ' 15.22 "</b>	Longitude <b>W 90 ° 50 ' 20.32 "</b>
Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>206.9375ft</b>

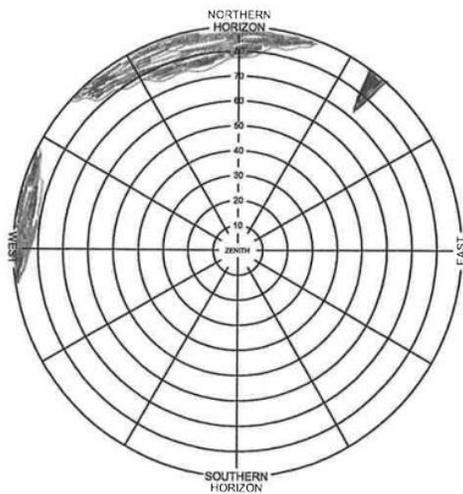
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

Location Description / Comments

**X**

Visibility Diagram  Photos Available



No Obstructions above 10°

Setting Type • <b>MARKED POINT</b>	Monument Size <b>N/A</b>
<input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINTED ARROW</b>	



**19, 3NW, 18FEB2016**



**19, 3SW, 18FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation 20	Airport LID & State <b>Mississippi</b>	Data File Name 20-44280500.T02	<input type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time 8 : 24 local	Stop Time 8 : 43 local	Calendar Date 02/19/2016
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID	Sta. SSN	Sta. ID	Session	Julian Day
		20	-	050

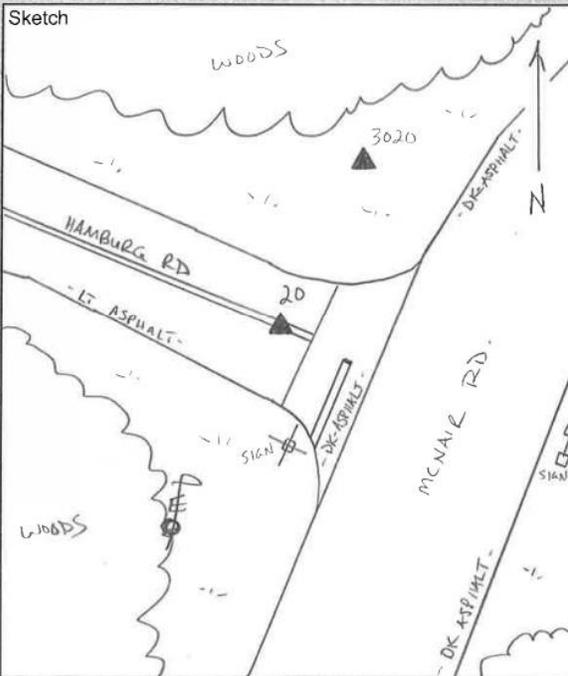
Latitude N 31 ° 34 ' 28.47 "	Longitude W 90 ° 58 ' 26.59 "
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Antenna Ht. (before; include add. offsets) 2.00 m	E-Height 248.4015 ft
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
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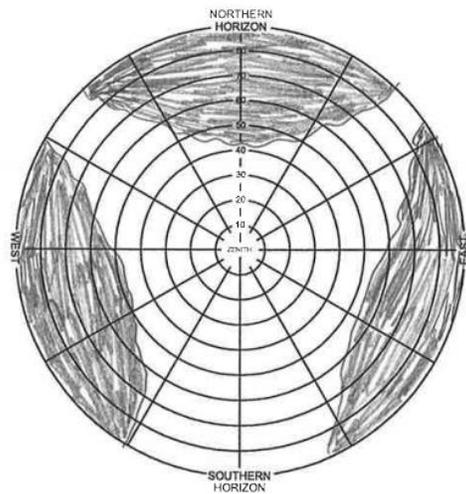
Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments

X

Visibility Diagram  Photos Available



No Obstructions above 10°

Setting Type • MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpert, etc.) N/A
Photo Ctrl Target Type CL PAINT STRIPE ASPHALT RD	



20, 3SE, 19FEB2016



20, 3SW, 19FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

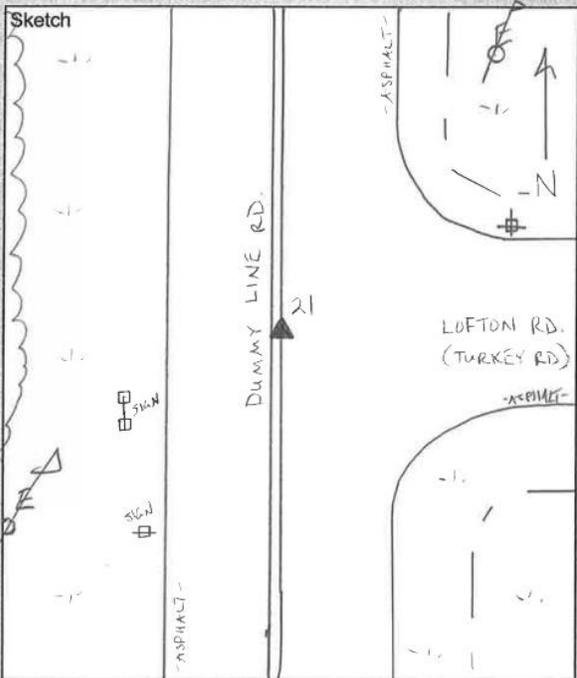


Station Designation 21	Airport LID & State <b>Mississippi</b>	Data File Name 76268-02182016-2RL.job	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office- <b>937 . 531 . 1211</b> Cell- <b>937 . 684 . 0558</b>	

Start Time 14 : 16 local	Stop Time 14 : 22 local	Calendar Date 02 / 18 / 2016
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> OPACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID	Session	Julian Day
		21	-	049



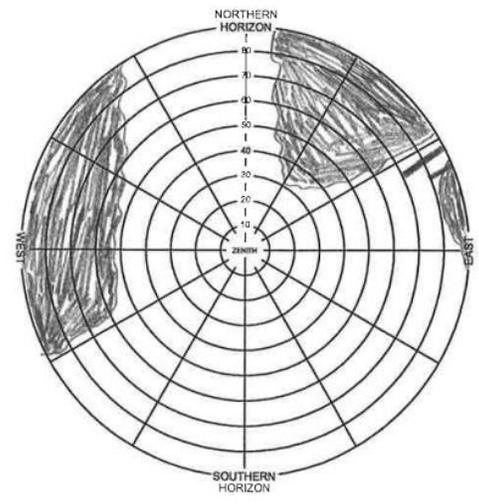
Latitude <b>N 31 ° 31 '07.68"</b>	Longitude <b>W 90 ° 39 '24.10 "</b>
Antenna Ht. (before; include add. offsets) 2.00 m	E-Height 230.028 sft
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments

X

Visibility Diagram  Photos Available



Setting Type = MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type CL ASPHALT RD	



**21, 3N, 18FEB2016**



**21, 3W, 18FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

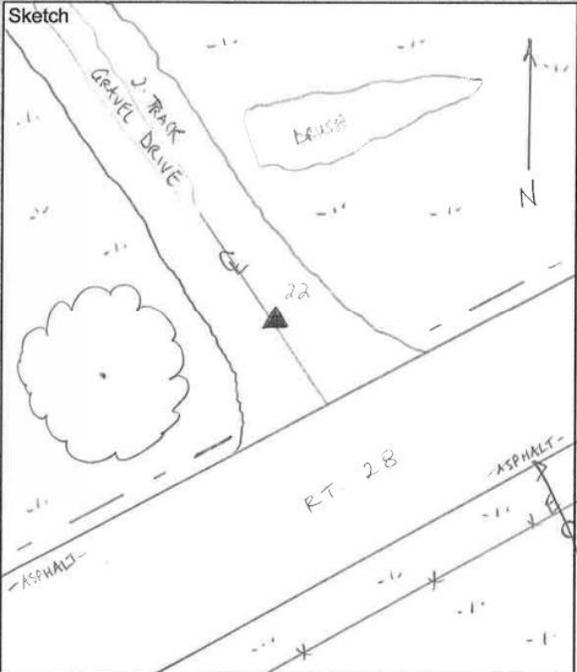


Station Designation 22	Airport LID & State <b>Mississippi</b>	Data File Name 76268-02202016-2RL.job	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time 11 : 34 local	Stop Time 11 : 41 local	Calendar Date 02 / 20 / 2016
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input checked="" type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID 22	Session	Julian Day 051

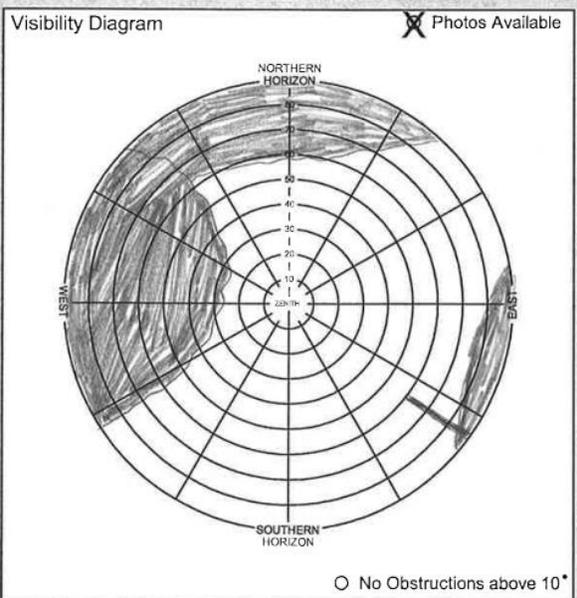


Latitude N 31 ° 41 ' 54.28 "	Longitude W 90 ° 45 ' 59.97 "
Antenna Ht. (before; include add. offsets) 2.00 m	E-Height 298.264 5ft
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

Location Description / Comments

X



Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpert, etc.) N/A
Photo Ctrl Target Type CL GRAVEL RD.	



**22, 3NW, 20FEB2016**



**22, 3SW, 20FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

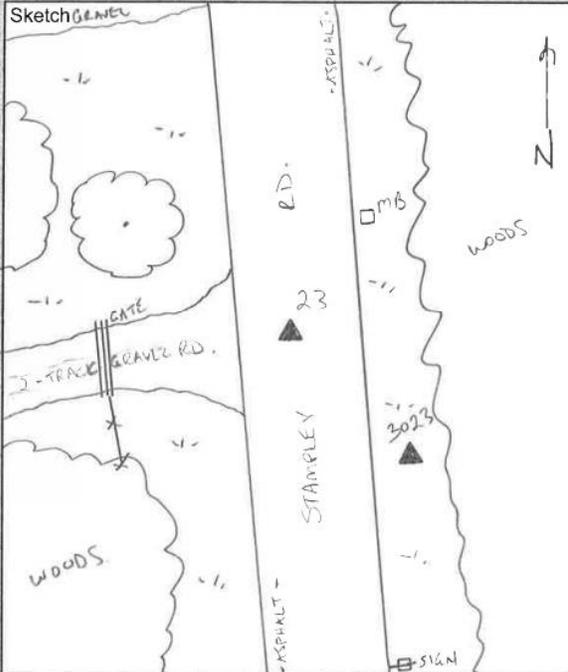


Station Designation 23	Airport LID & State <b>Mississippi</b>	Data File Name 76268-02212016-ZRL.job	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone	
Office- <b>937 . 531 . 1211</b>	Cell- <b>937 . 684 . 0558</b>

Start Time 13 : 09 local	Stop Time 13 : 14 local	Calendar Date 02/21/2016
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Station Classification				
<input type="checkbox"/> FBN	<input type="checkbox"/> CBN	<input checked="" type="checkbox"/> BM	<input type="checkbox"/> PACS	<input type="checkbox"/> SACS
<input type="checkbox"/> TSM	<input type="checkbox"/> EoR	<input type="checkbox"/> NAVAID	<input checked="" type="checkbox"/> Photo Control	
Station PID	Sta. SSN	Sta. ID	Session	Julian Day
		23		052

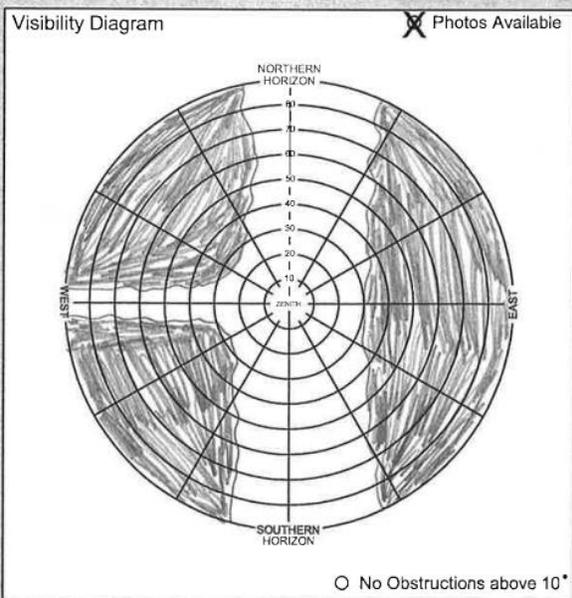


Latitude N 31 ° 40 ' 01.72 "	Longitude W 91 ° 07 ' 19.42 "
Antenna Ht. (before; include add. offsets) 2.00 m	E-Height 253.801 sft
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

Location Description / Comments

X



Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type CL ASPHALT RD	



**23, 3E, 21FEB2016**



**23, 3N, 21FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

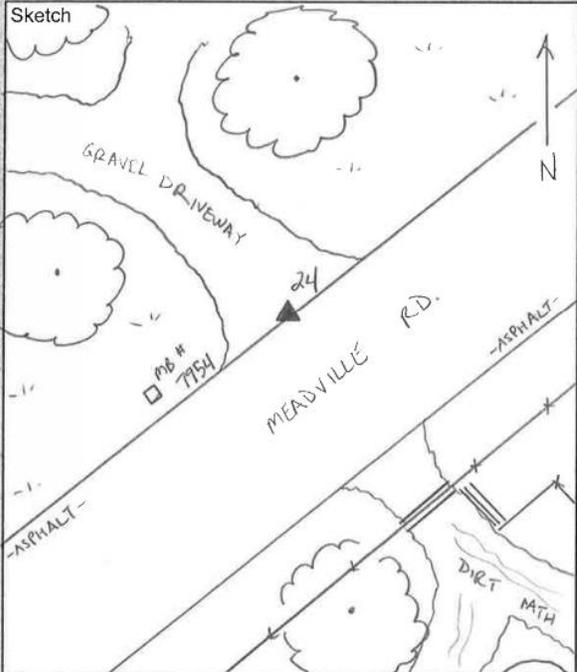


Station Designation 24	Airport LID & State <b>Mississippi</b>	Data File Name 76268_02182016_ZRL.job	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : 17 : 15 local	Stop Time : : 17 : 27 local	Calendar Date 02/18/2016
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID 24	Session	Julian Day 048

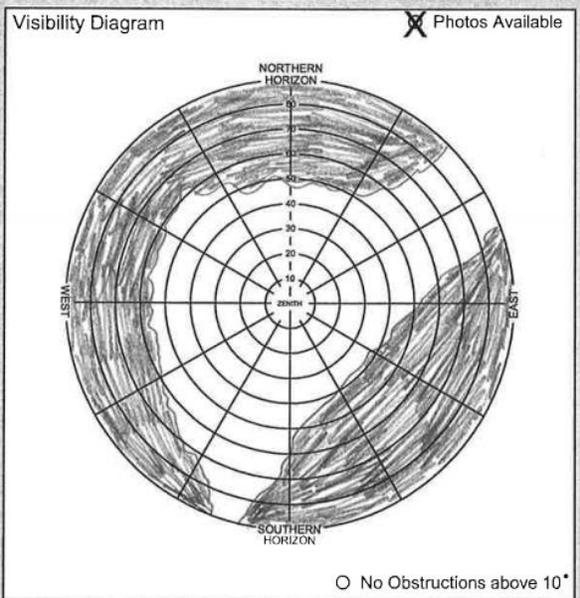


Latitude N 31° 36' 39.93"	Longitude W 90° 50' 37.35"
Antenna Ht. (before; include add. offsets) 2.00 m	E-Height 403.8615 ft
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments

X



Setting Type • MARKED POINT	Monument Size N/A
<input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type PAINT STRIPE	



**24, 3NE, 18FEB2016**



**24, 3NW, 18FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

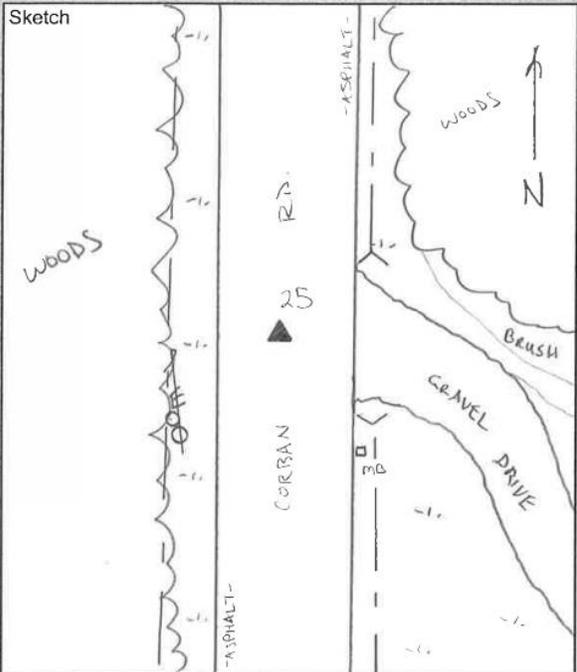


Station Designation 25	Airport LID & State <b>Mississippi</b>	Data File Name 76268-02202016-ZLL.job	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time 16 : 56 local	Stop Time 17 : 02 local	Calendar Date 02/20/2016
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVOID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID 25	Session	Julian Day 051

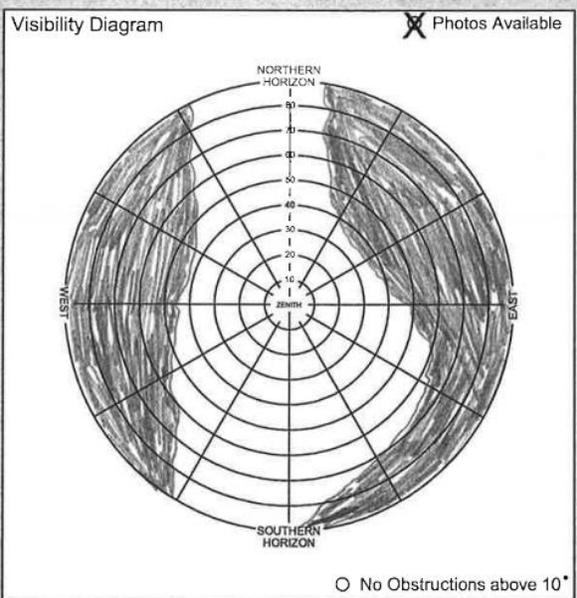


Latitude N 31 ° 43 ' 19.47 "	Longitude W 91 ° 01 ' 43.80 "
Antenna Ht. (before; include add. offsets) 2.00 m	E-Height 136.405 sft
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

Location Description / Comments

X



Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type PRINT STRIPE	



**25, 3N, 20FEB2016**



**25, 3W, 20FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

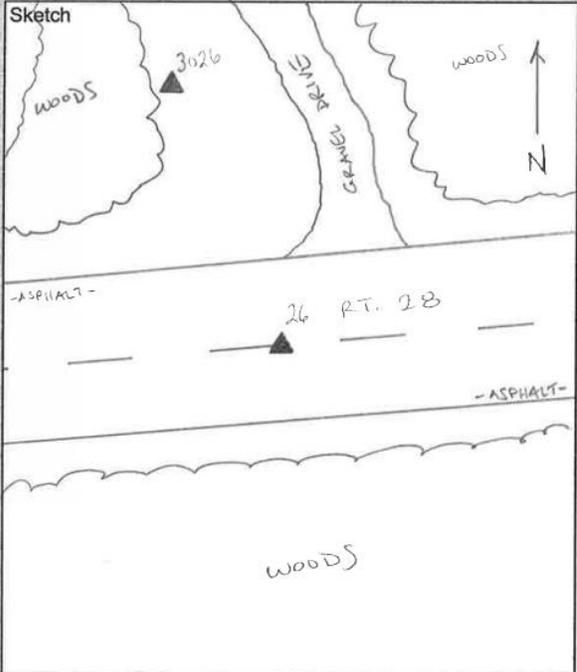


Station Designation 26	Airport LID & State <b>Mississippi</b>	Data File Name 76268_02202016_26L	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeseemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time 10 : 20 local	Stop Time 10 : 27 local	Calendar Date 02/20/2016
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID 26	Session	Julian Day 051

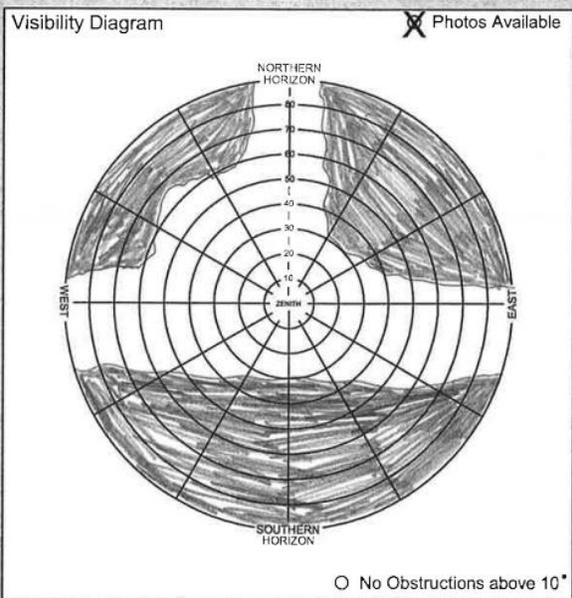


Latitude N 31° 41' 17.30"	Longitude W 90° 53' 44.64"
Antenna Ht. (before; include add. offsets) 2.00 m	E-Height 292.683 sft
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

Location Description / Comments

X



Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type PRINT STRIPE	



**26, 3S, 20FEB2016**



**26, 3W, 20FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>27</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02202016_ZEL Job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : utc <b>12 : 44 local</b>	Stop Time : : utc <b>12 : 49 local</b>	Calendar Date <b>02 / 20 / 2016</b>
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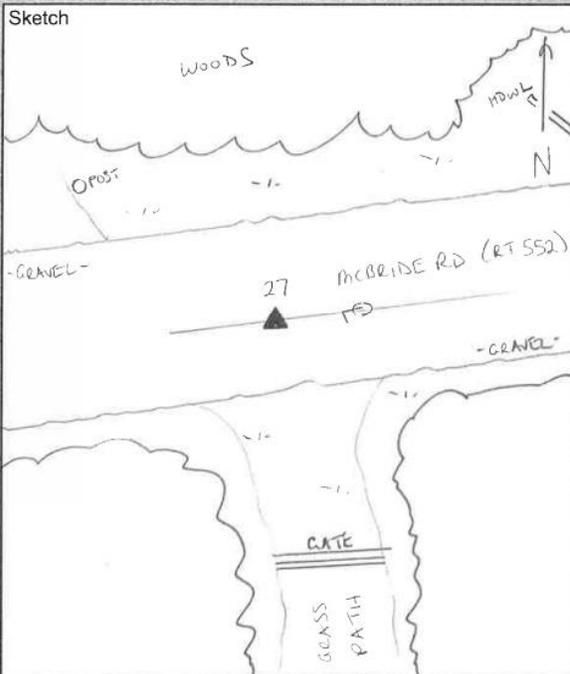
Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID	Session	Julian Day
		<b>27</b>		<b>051</b>

Latitude <b>N 31 ° 45 '48.83"</b>	Longitude <b>W 96 ° 48 '55.71"</b>
Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>165.188 m</b>

Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

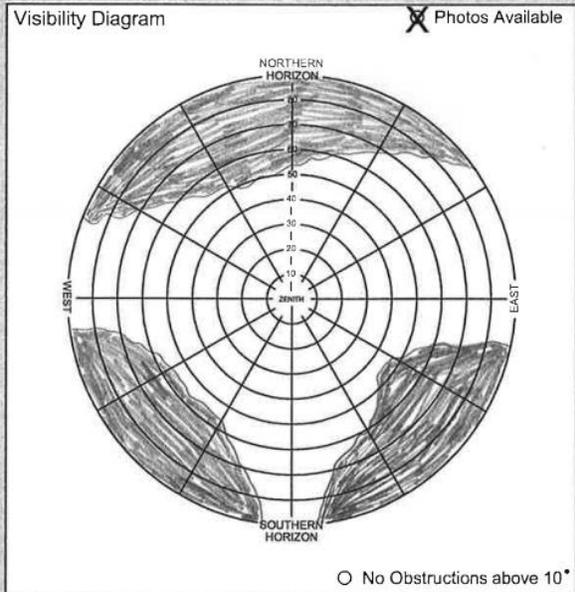
Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments

X

Setting Type • MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>CL GRAVEL RD</b>	





**27, 3E, 20FEB2016**



**27, 3N, 20FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

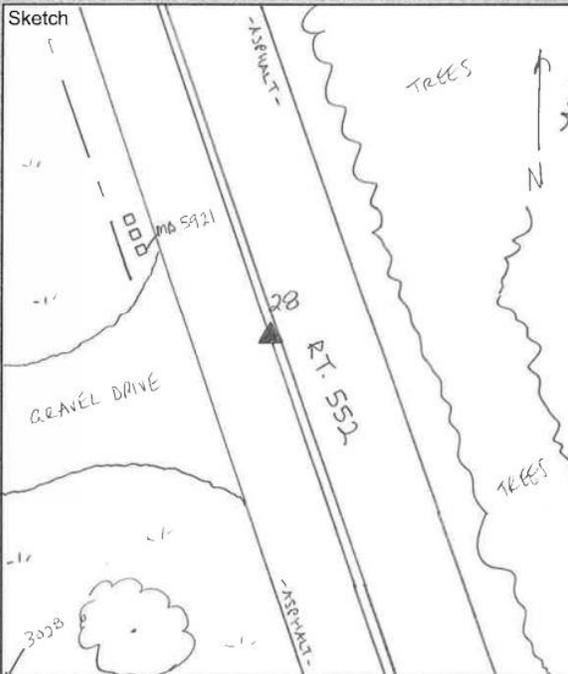


Station Designation 28	Airport LID & State <b>Mississippi</b>	Data File Name 28_44280512.To2	<input type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time 14 : 02 local	Stop Time 14 : 19 local	Calendar Date 02/20/2016
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID	Session	Julian Day
		28		051

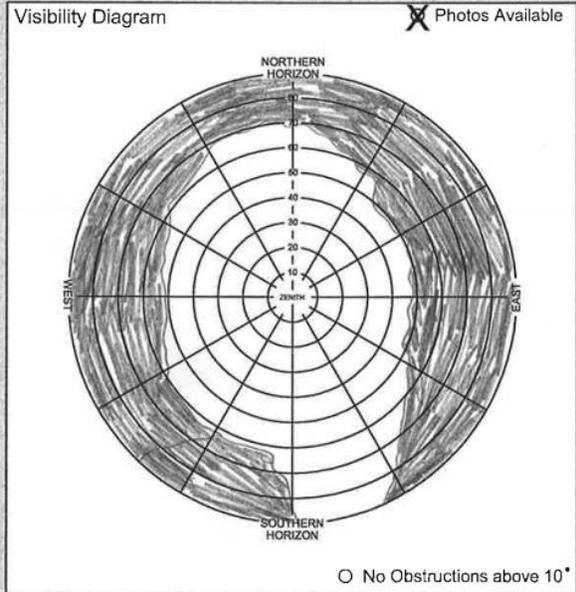


Latitude N 31 ° 47 ' 08.28 "	Longitude W 90 ° 58 ' 16.90 "
Antenna Ht. (before; include add. offsets) 2.00 m	E-Height 205.014 sft
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments

X



Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type CL ASPHALT RD.	



**28, 3SE, 20FEB2016**

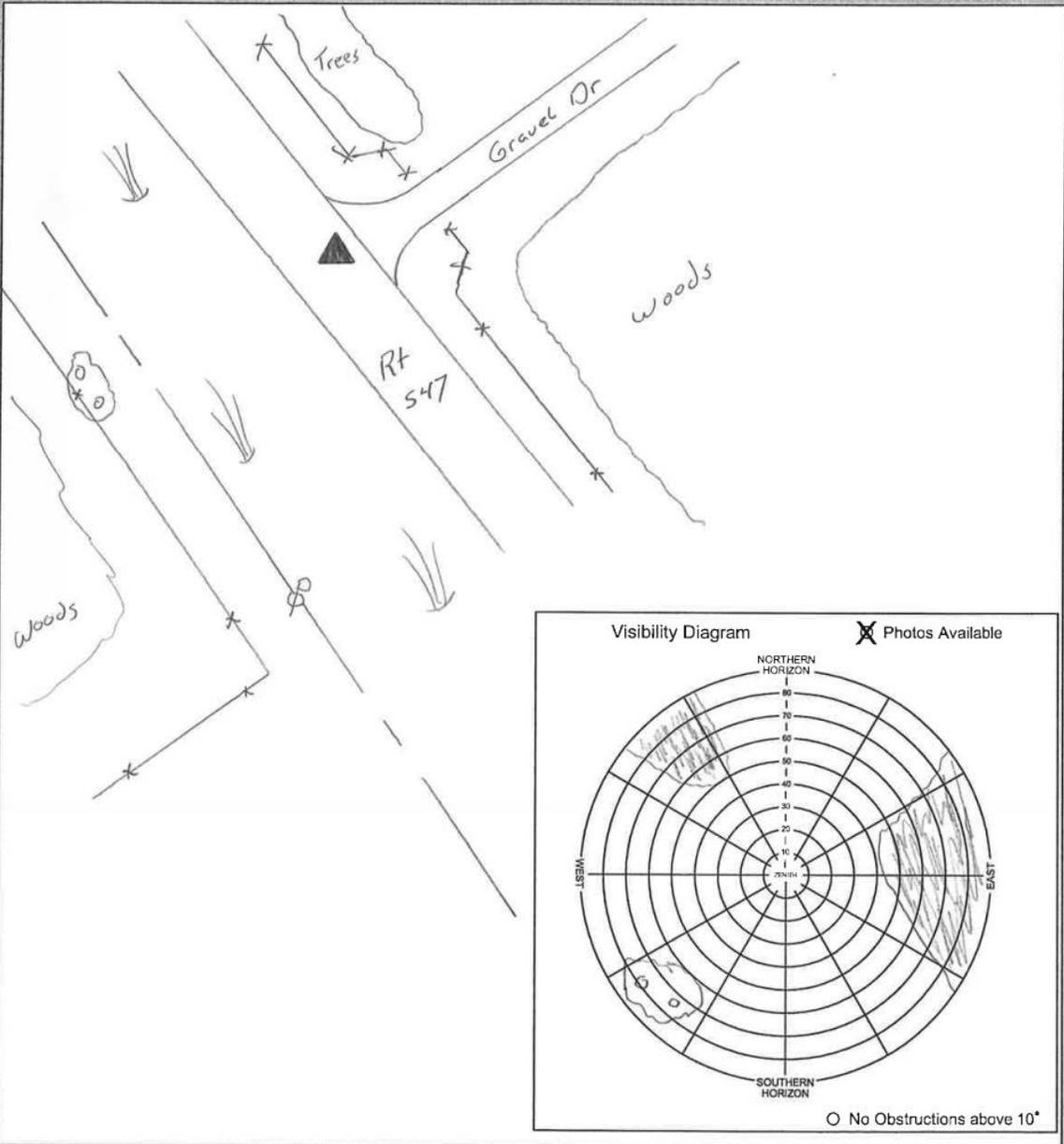


**28, 3SW, 20FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # 29	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude N 31 ° 51 ' 56.76 "	Longitude W 90 ° 51 ' 41.57 "	Calendar Date 2 / 21 / 2016
		Observer Initials <b>BW</b>





**29, 3N, 21FEB2016**

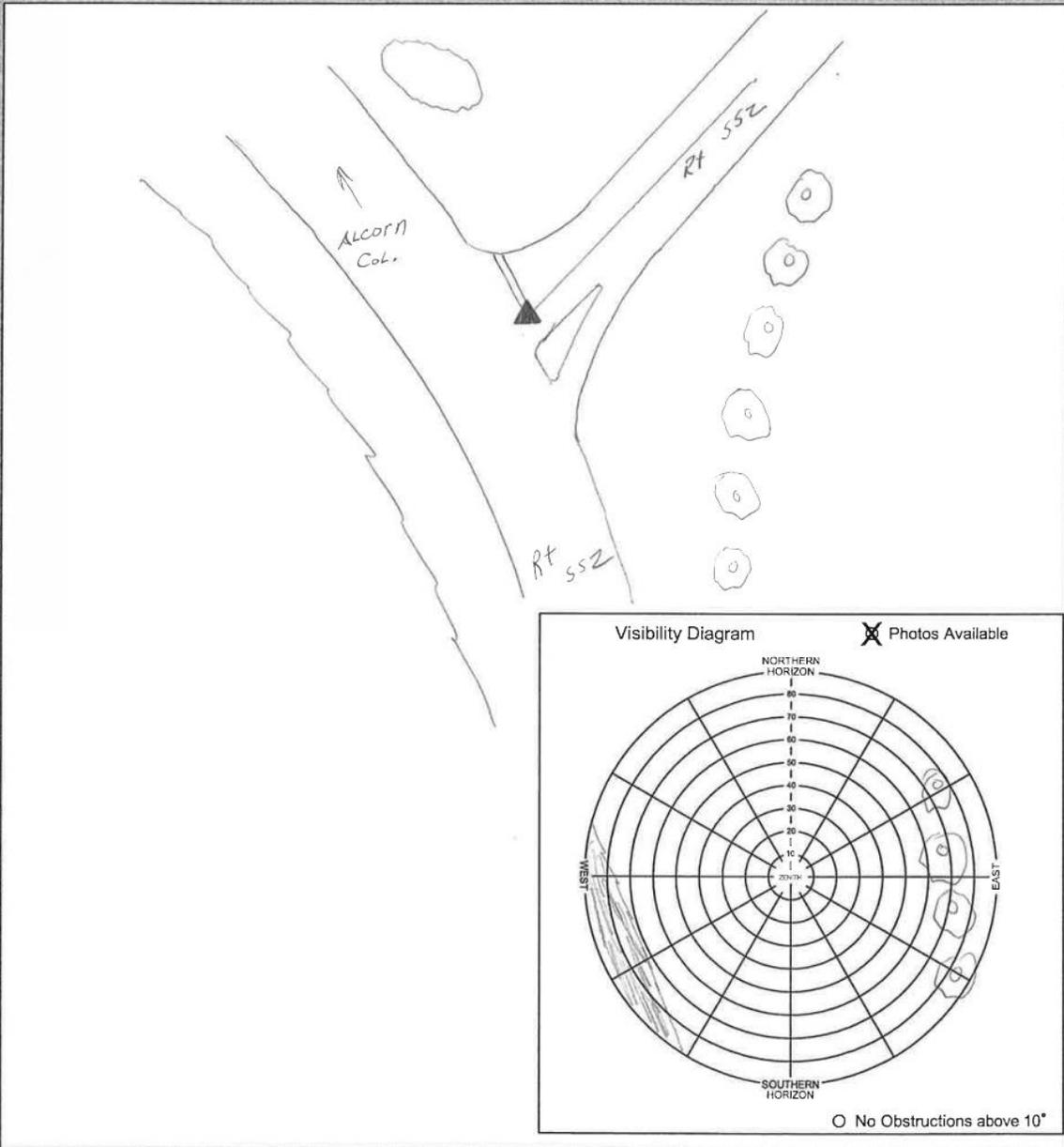


**29, 3W, 21FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # 30	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>	
Latitude N 31° 52' 06.26"	Longitude W 91° 07' 37.59"	Calendar Date 2/21/2016	Observer Initials <b>BW</b>





**30, 3N, 21FEB2016**



**30, 3W, 21FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>31</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268-02212016-REL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
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Observer email <b>Zach.Leeemann@Woolpert.com</b>
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Observer Phone Office- <b>937 . 531 . 1211</b> Cell- <b>937 . 684 . 0558</b>
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Start Time : : 15 : 25 local	Stop Time : : 15 : 29 local	Calendar Date <b>02/21/2016</b>
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:
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Station PID	Sta. SSN	Sta. ID <b>31</b>	Session	Julian Day <b>052</b>
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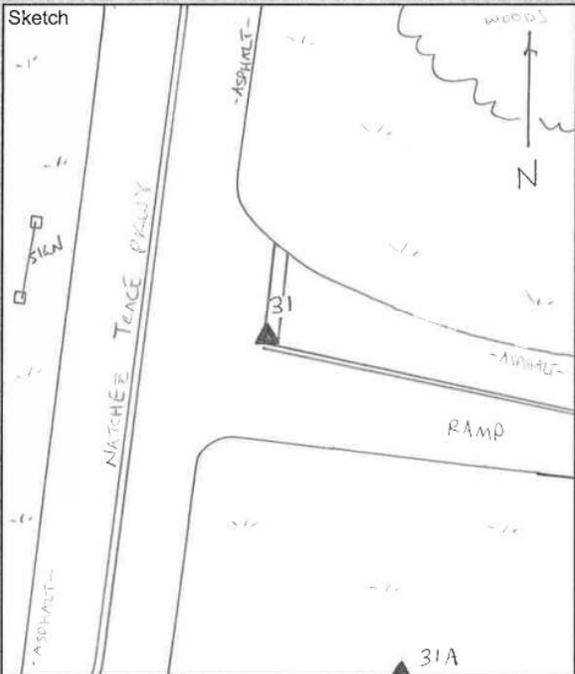
Latitude <b>N 31 ° 44 '56.32"</b>	Longitude <b>W 91 ° 10 '31.12"</b>
--------------------------------------	---------------------------------------

Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>39.852 sft</b>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	---

Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

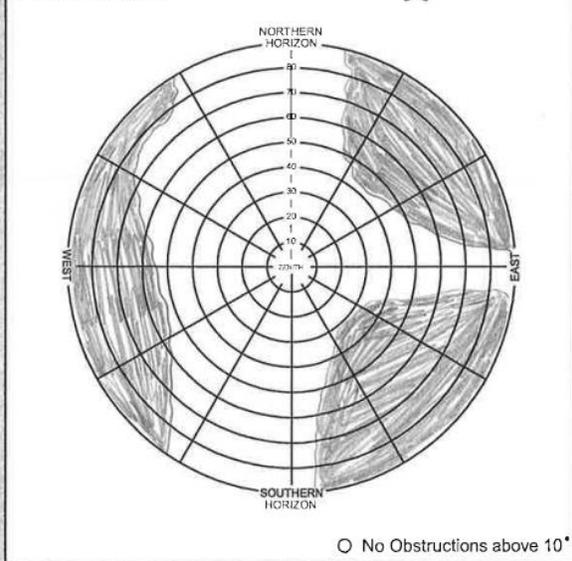
Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments  
\* 31A ALSO SHOT IN SHORT GRASS DUE TO DARK ASPHALT IN THE SURROUNDING AREA.

Setting Type • <b>MARKED POINT</b>	Monument Size <b>N/A</b>
<input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpert, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINT STRIPE</b>	

Visibility Diagram  Photos Available





**31, 3E, 21FEB2016**



**31, 3N, 21FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>31A</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02212016_ZPL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeseemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : <b>15 : 19</b> local	Stop Time : : <b>15 : 24</b> local	Calendar Date <b>02/21/2016</b>
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Station Classification  
 FBN  CBN  BM  OPACS  SACS  OTSM  
 EoR  NAVAID  Photo Control  Other:

Station PID	Sta. SSN	Sta. ID <b>31A</b>	Session	Julian Day <b>052</b>
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Latitude <b>N 31 ° 44 '55.93 "</b>	Longitude <b>W 91 ° 10 '31.15 "</b>
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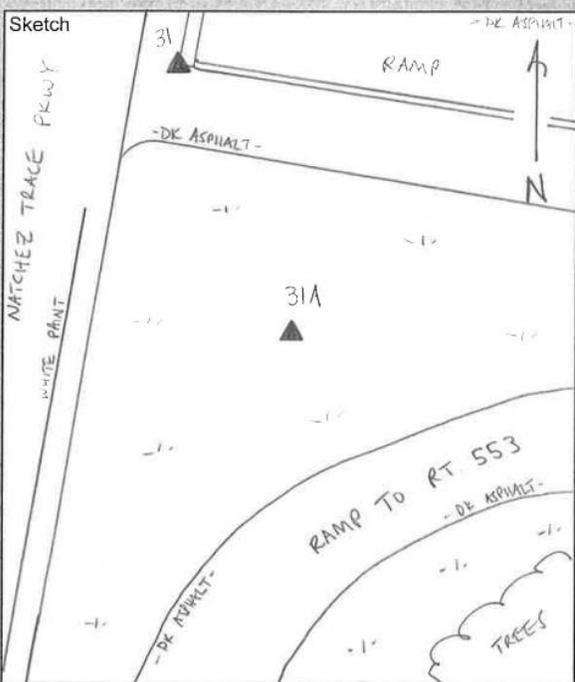
Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>41.151 sf</b>
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Ant. Ht. Measured To  Bottom of Ant. Mt.  Other:  Yes  No

Tripod Type  
 Fixed-Ht.  Slip-leg  Fixed mount  Bi-pod

Receiver R8-3  
P/N 67250-66  
S/N 5211484428

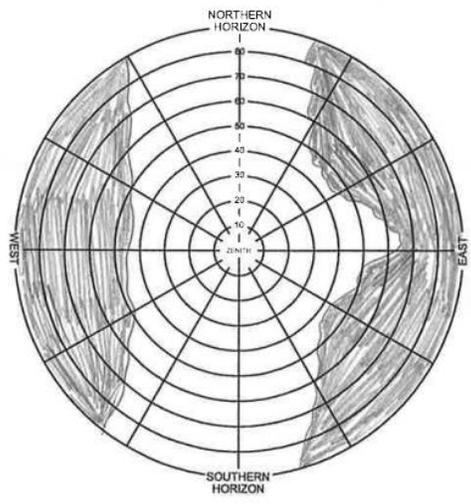
Antenna R8-3  
P/N 67250-66  
S/N 5211484428



Location Description / Comments

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>SHORT GRASS</b>	

Visibility Diagram  Photos Available



No Obstructions above 10'



**31A, 3E, 21FEB2016**



**31A, 3S, 21FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <p style="text-align: center;">32</p>	Airport LID & State <p style="text-align: center;"><b>Mississippi</b></p>	Data File Name <p style="text-align: center;">32 - 44280521.T02</p>
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : 14 : 08 local	Stop Time : : 14 : 31 local	Calendar Date <p style="text-align: center;">02/21/2016</p>
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Station Classification  
 FBN    CBN    BM    PACS    SACS    TSM  
 EoR    NAVAID    Photo Control    Other:

Station PID	Sta. SSN	Sta. ID <p style="text-align: center;">32</p>	Session	Julian Day <p style="text-align: center;">052</p>
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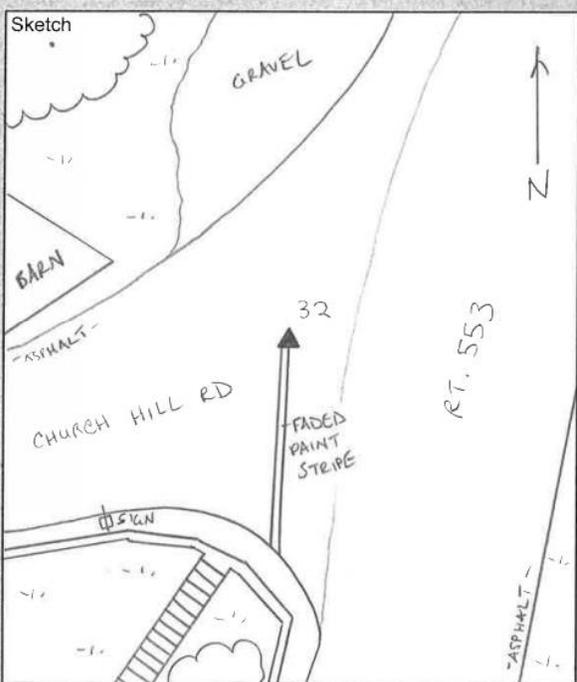
Latitude <p style="text-align: center;">N 31 ° 42 ' 57.48 "</p>	Longitude <p style="text-align: center;">W 91 ° 14 ' 17.47 "</p>
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Antenna Ht. (before, include add. offsets) <p style="text-align: center;">2.00m</p>	E-Height <p style="text-align: center;">116.09 sft</p>
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Ant. Ht. Measured To <input checked="" type="radio"/> Bottom of Ant. Mt. <input type="radio"/> Other:	Ground Plane <input type="radio"/> Yes <input checked="" type="radio"/> No
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Tripod Type <input checked="" type="radio"/> Fixed-Ht. <input type="radio"/> Slip-leg <input type="radio"/> Fixed mount <input checked="" type="radio"/> Bi-pod
--

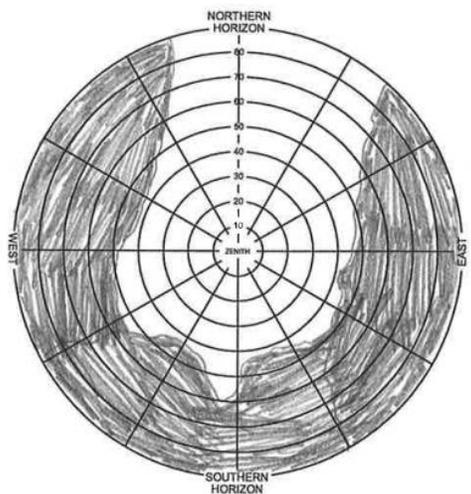
Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments  

X

Visibility Diagram  Photos Available



Setting Type <input checked="" type="radio"/> MARKED POINT <input type="radio"/> Deep Rod <input type="radio"/> Concrete Mon. <input type="radio"/> Fixed Mt.	Monument Size <p style="text-align: center;">N/A</p>
Stamping <p style="text-align: center;">N/A</p>	Inscription (i.e. NGS, Woolpt, etc.) <p style="text-align: center;">N/A</p>
Photo Ctrl Target Type <p style="text-align: center;">PAINT STRIPE</p>	

○ No Obstructions above 10°



**32, 3E, 21FEB2016**

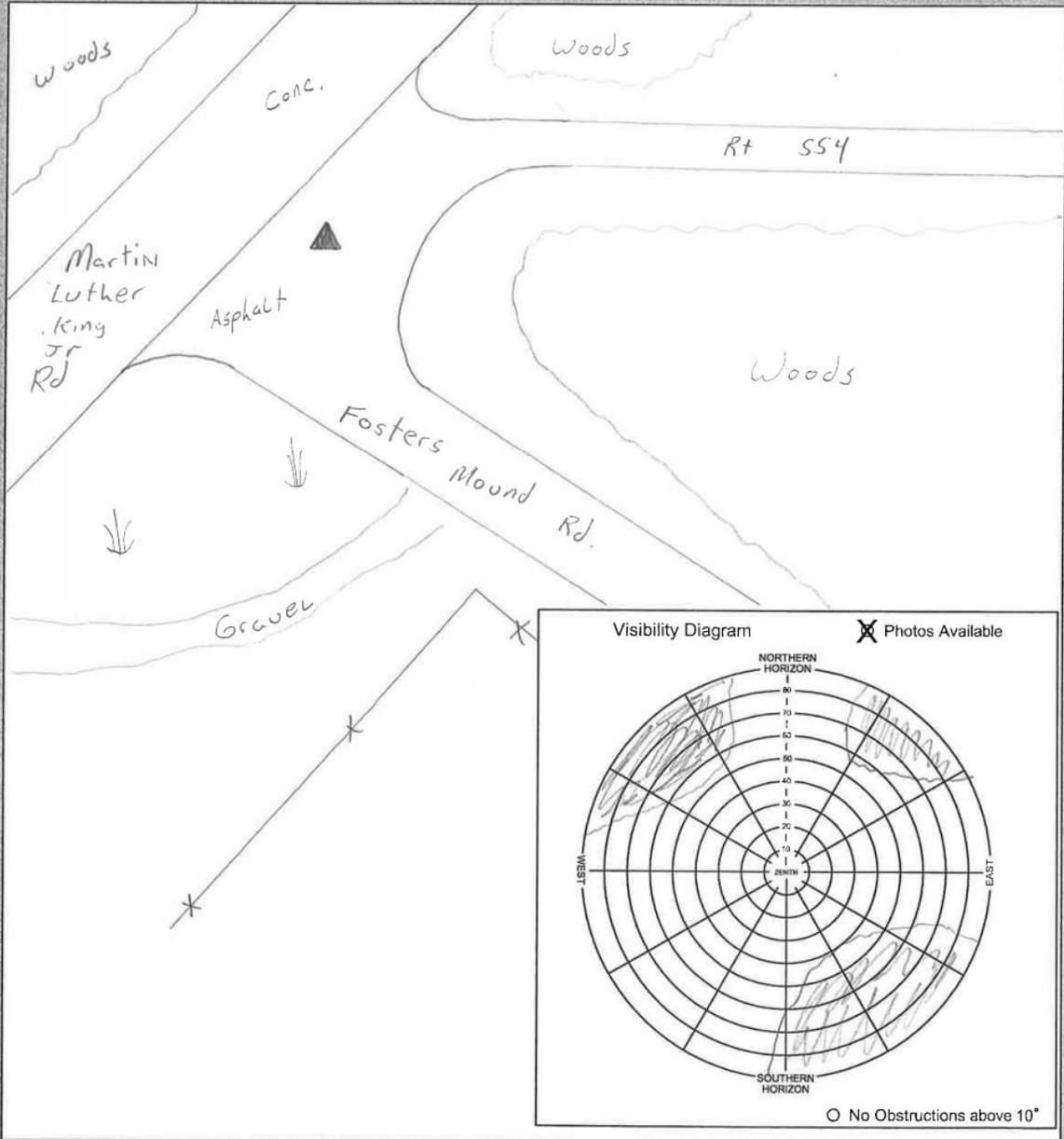


**32, 3S, 21FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # 33	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>	
Latitude <b>N 31° 37' 49.72"</b>	Longitude <b>W 91° 20' 53.16"</b>	Calendar Date 2/19/2016	Observer Initials <b>BW</b>





**33, 3N, 19FEB2016**



**33, 3W, 19FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation 34	Airport LID & State <b>Mississippi</b>	Data File Name 76268_02182016 - ZFL Job	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeseemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : utc 12 : 29 local	Stop Time : : utc 12 : 37 local	Calendar Date 02/18/2016
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID	Sta. SSN	Sta. ID 34	Session	Julian Day 049
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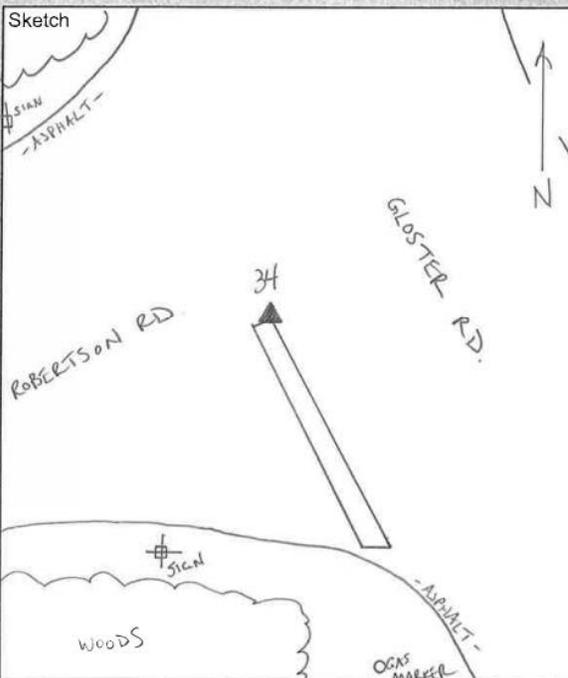
Latitude N 31 ° 21 '19.19 "	Longitude W 90 ° 56 '04.09 "
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Antenna Ht. (before, include add. offsets) 2.00 m	E-Height 179 381 511
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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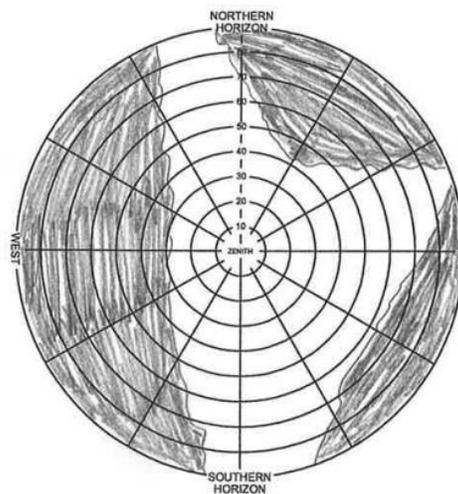


Location Description / Comments

X

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type PAINT STRIPE	

Visibility Diagram  Photos Available



No Obstructions above 10°



**34, 3E, 18FEB2016**

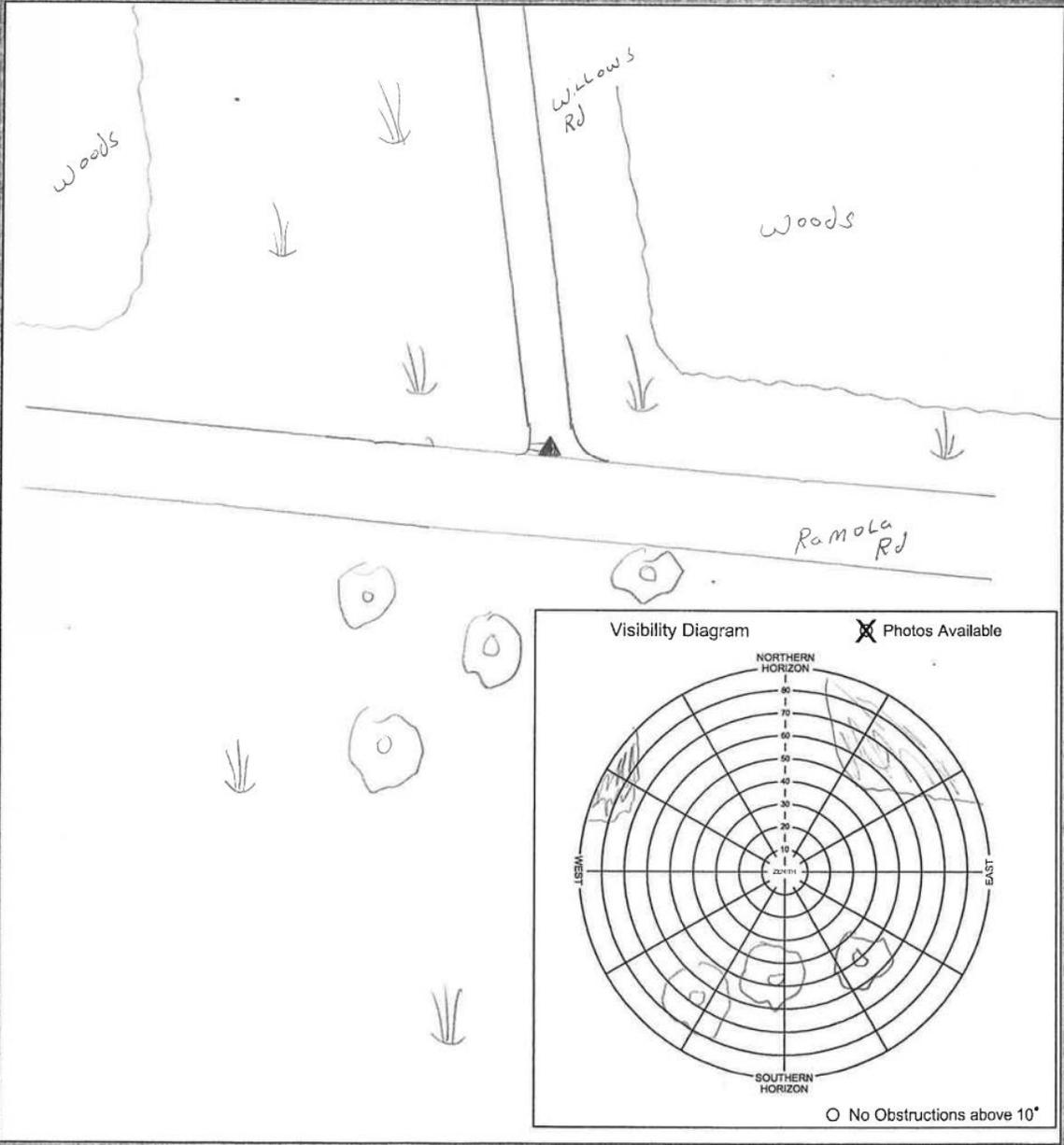


**34, 3S, 18FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LIDAR Control point # <b>35</b>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 31° 59' 29.94"</b>	Longitude <b>W 90° 51' 53.76"</b>	Calendar Date <b>2/22/2016</b>
		Observer Initials <b>BW</b>





**35, 3E, 22FEB2016**

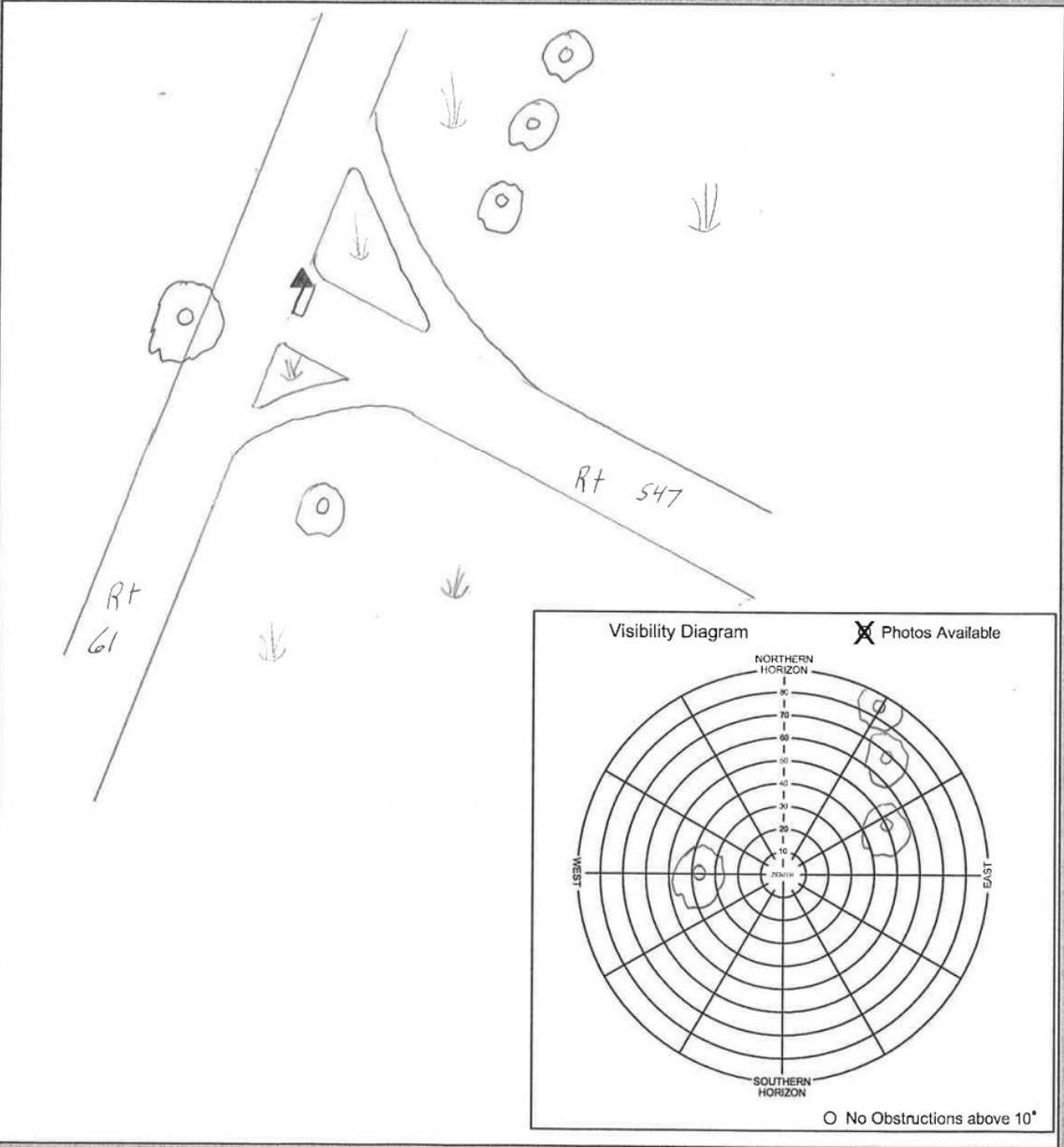


**35, 3N, 22FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <b>36</b>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 31 ° 56 ' 49.05 "</b>	Longitude <b>W 90 ° 59 ' 15.06 "</b>	Calendar Date <b>2 / 21 / 2016</b>
		Observer Initials <b>BW</b>





36, 3N, 21FEB2016

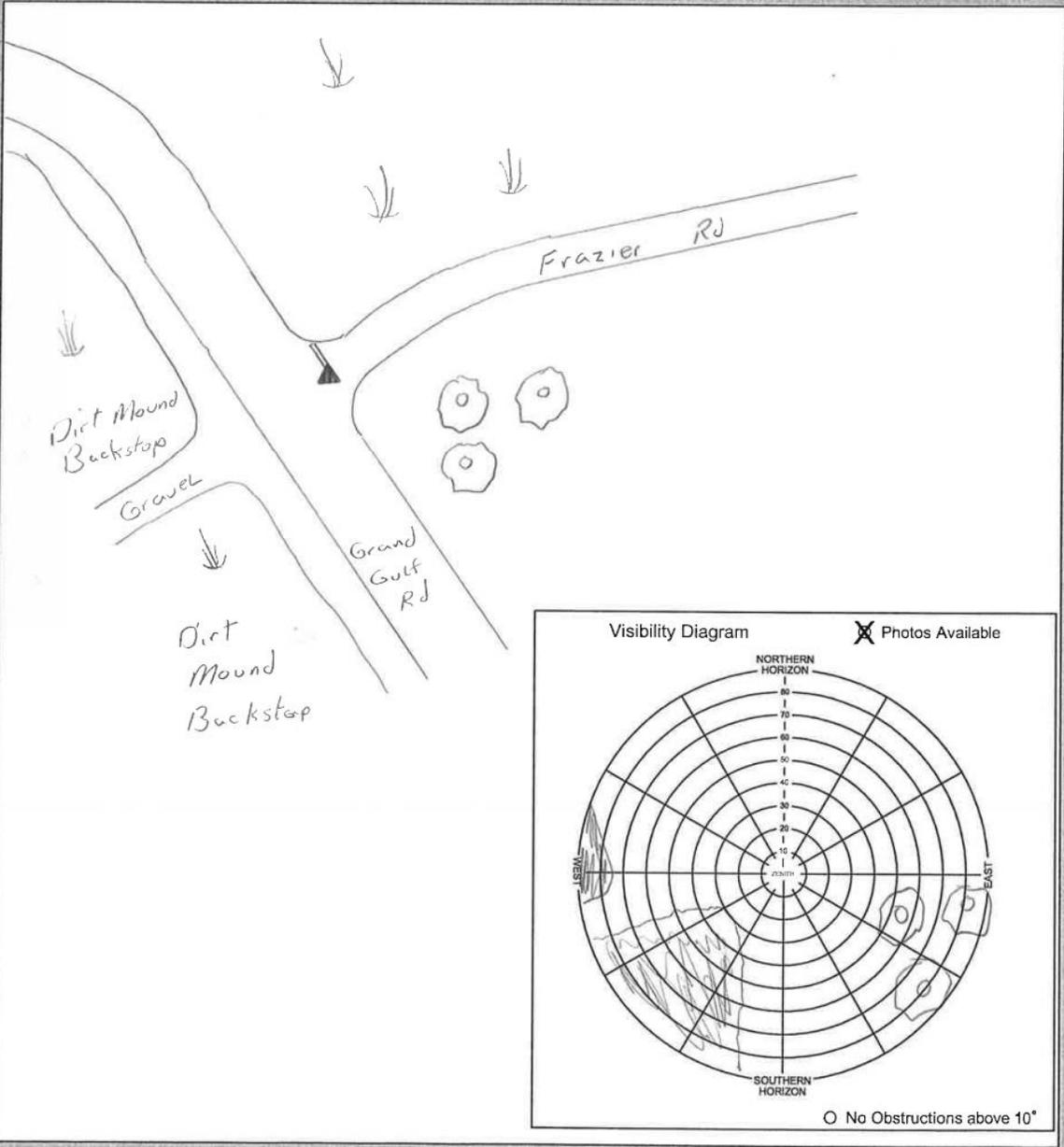


36, 3W, 21FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # 37	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude N 32 ° 01 ' 13.47 "	Longitude W 91 ° 02 ' 50.95 "	Calendar Date 2 / 21 / 2016
		Observer Initials <b>BW</b>





**37, 3N, 21FEB2016**

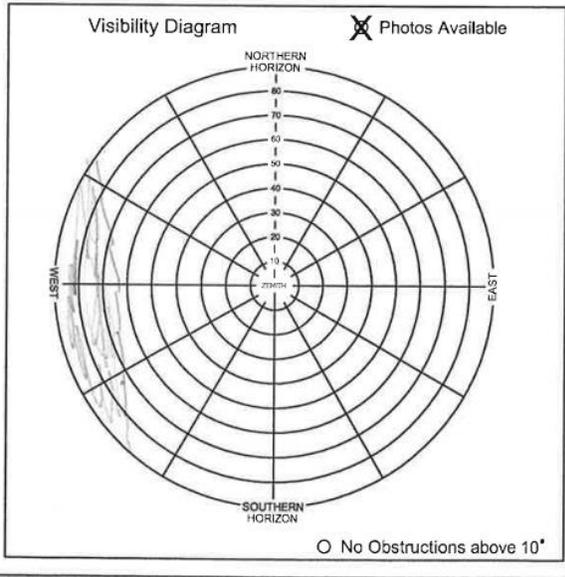
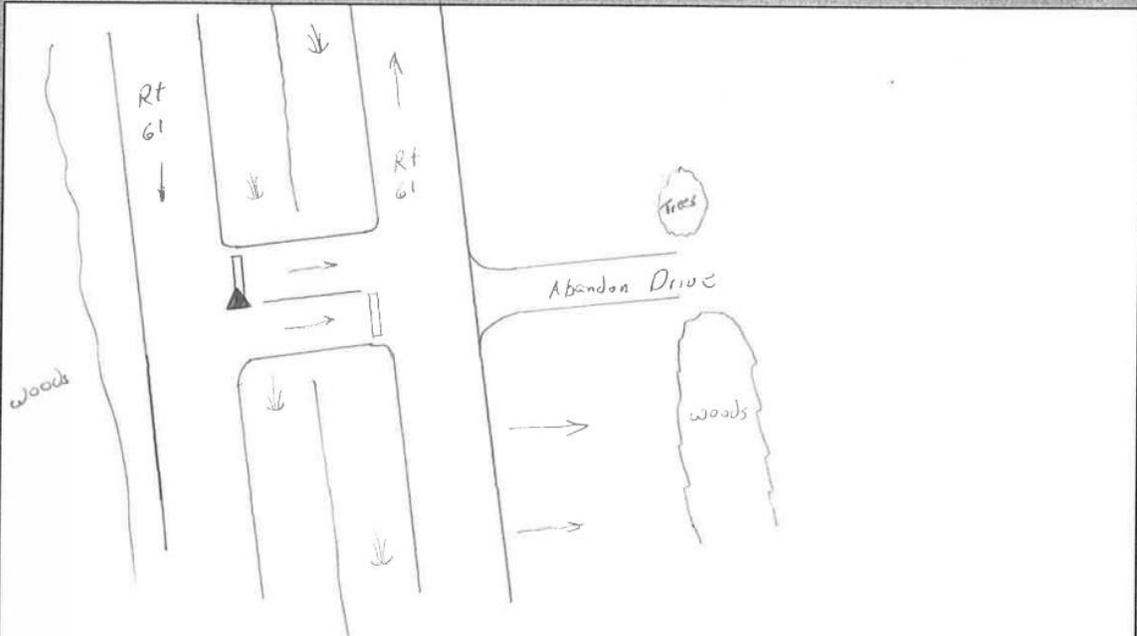


**37, 3W, 21FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <i>38</i>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 32° 09 ' 07.67 "</b>	Longitude <b>W 90 ° 56 ' 34.13 "</b>	Calendar Date <i>2 / 20 / 2016</i>
		Observer Initials <b>BW</b>





**38, 3E, 20FEB2016**

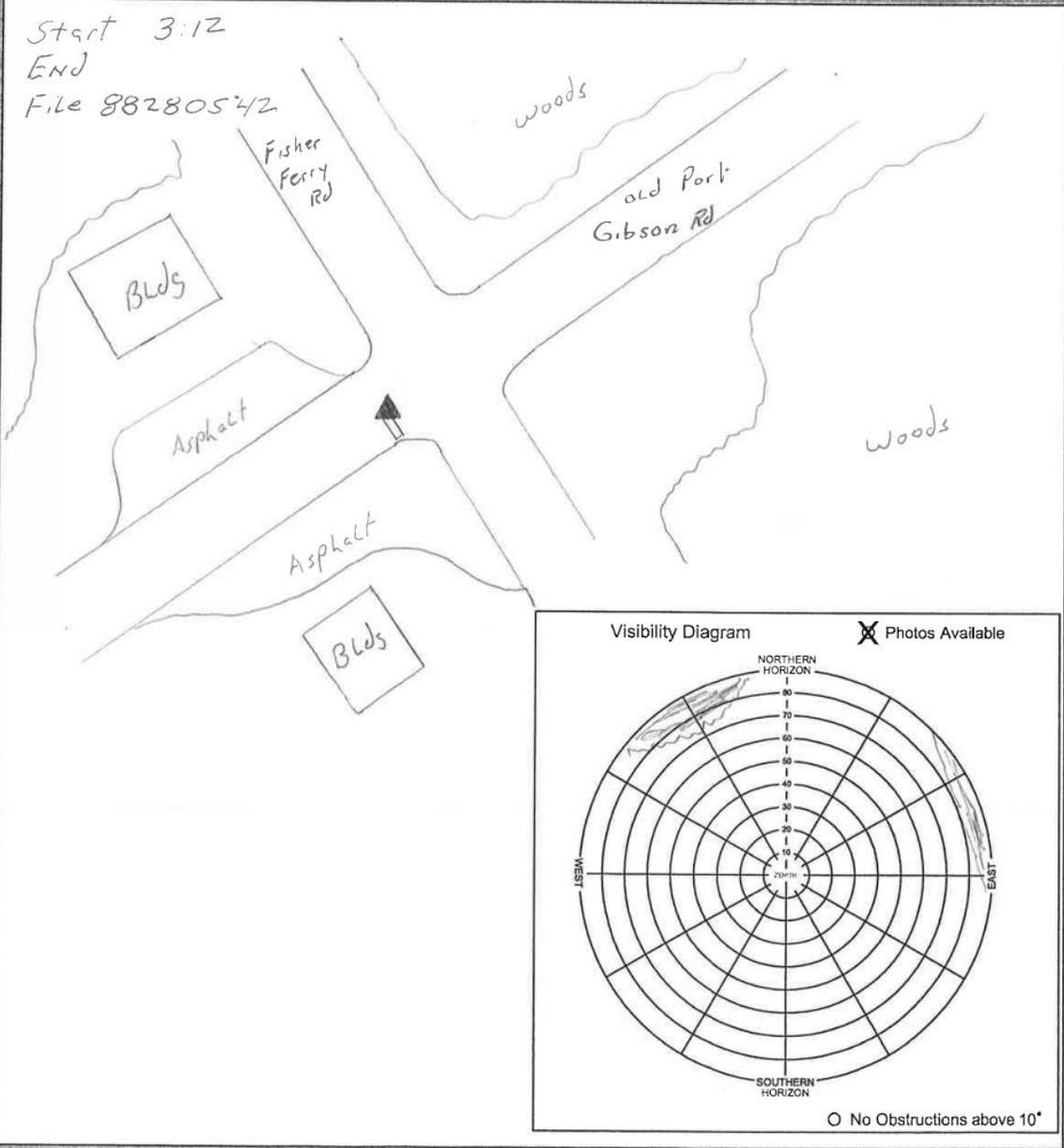


**38, 3N, 20FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <b>39</b>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 32 ° 08 ' 31.61 "</b>	Longitude <b>W 90 ° 44 ' 54.72 "</b>	Calendar Date <b>2 / 23 / 2016</b>
		Observer Initials <b>BW</b>





39, 3E, 23FEB2016

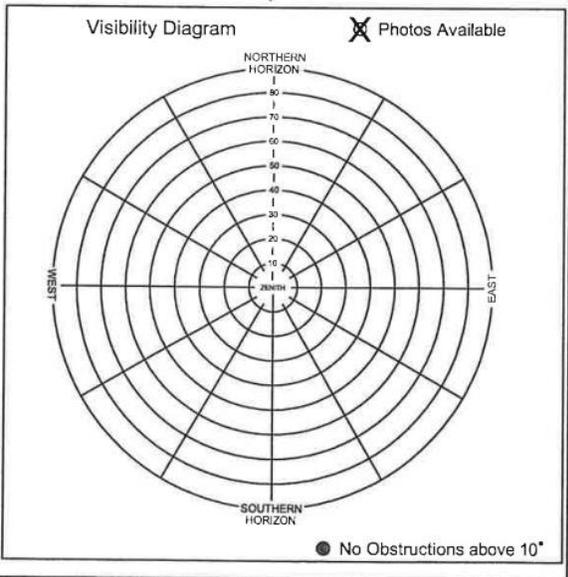
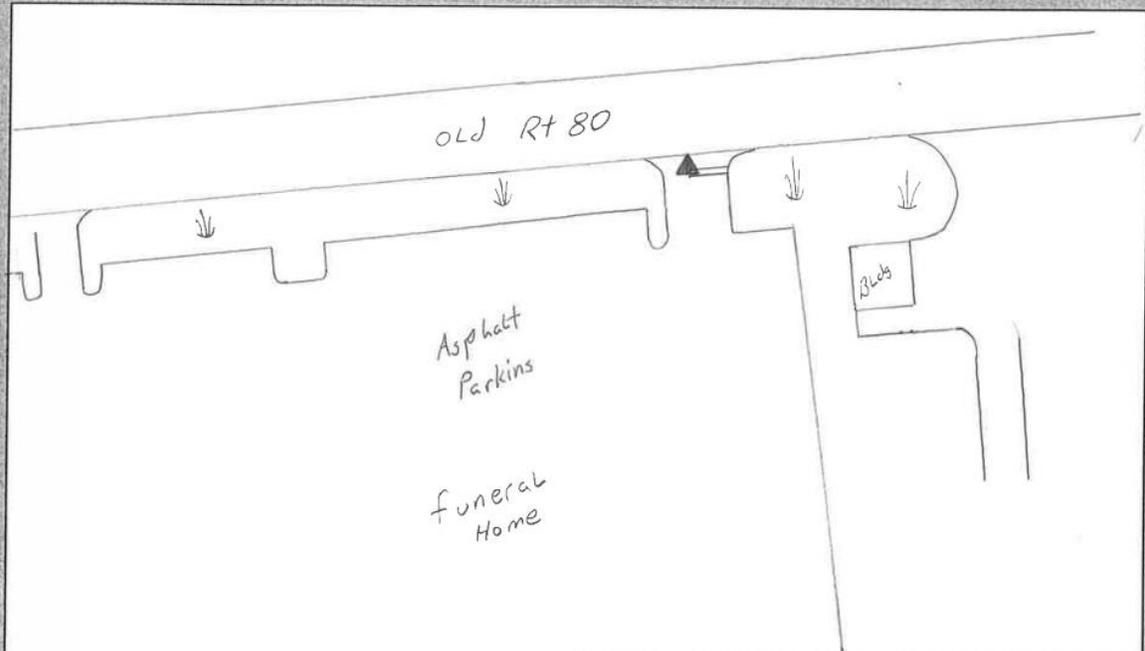


39, 3N, 23FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <i>40</i>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>	
Latitude <b>N 32° 20' 39.82"</b>	Longitude <b>W 90° 49' 35.08"</b>	Calendar Date <i>2/23/2016</i>	Observer Initials <b>BW</b>





40, 3E, 23FEB2016

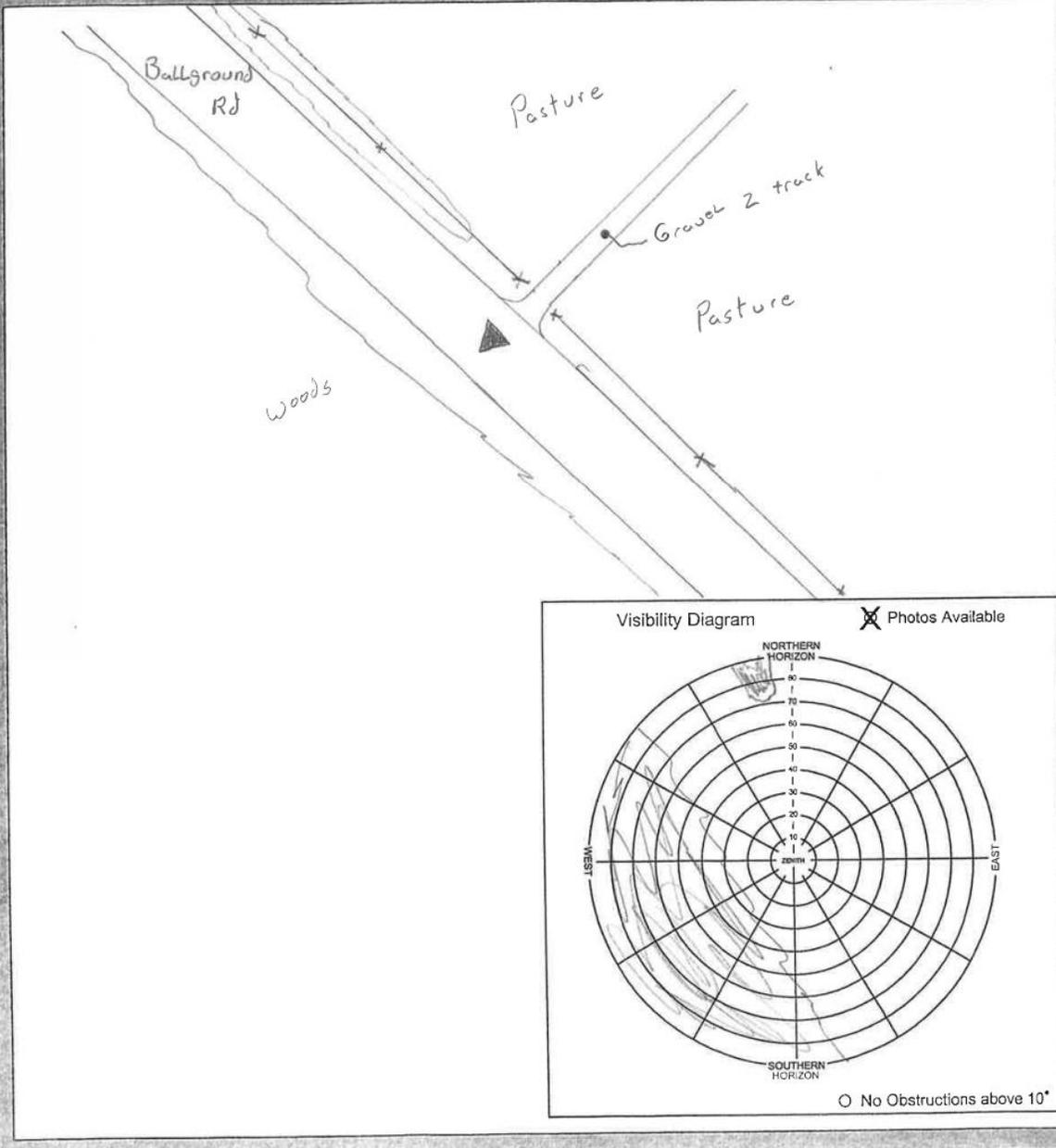


40, 3N, 23FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LIDAR Control point # 41	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude N 32° 31 ' 11.23 "	Longitude W 90° 44 ' 29.11 "	Calendar Date 2 / 24 / 2016
		Observer Initials <b>BW</b>





**41, 3S, 24FEB2016**

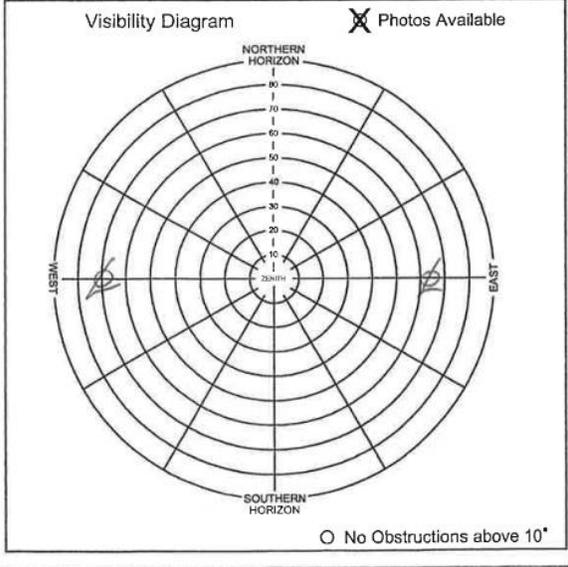
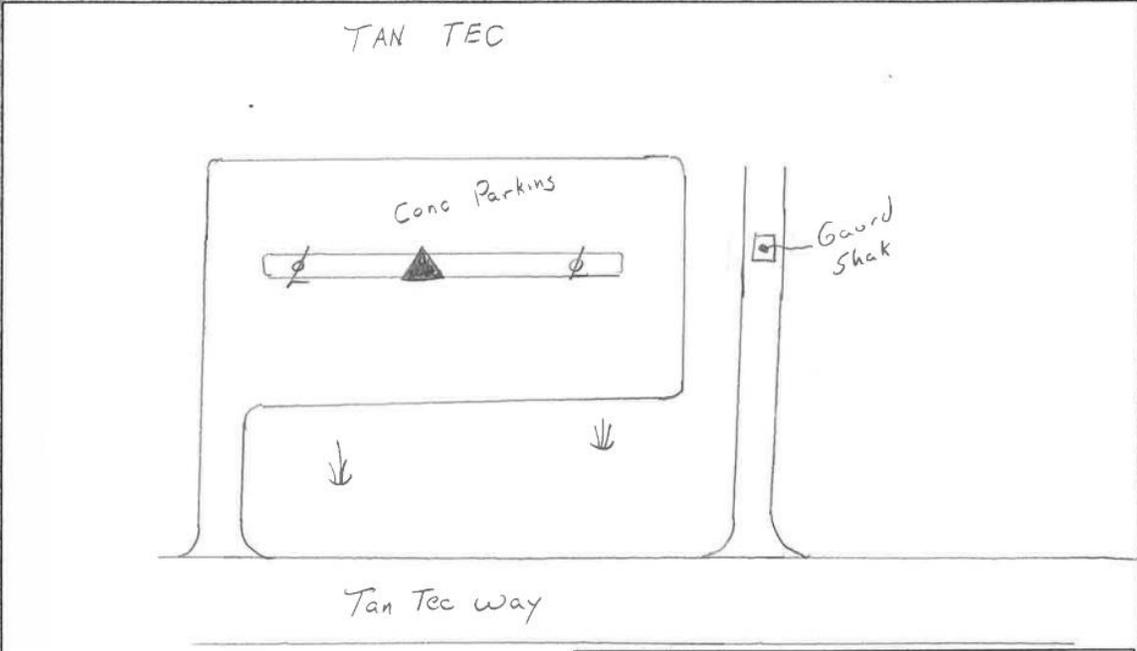


**41,3E, 24FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <b>42</b>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>	
Latitude <b>N 32° 22' 12.89"</b>	Longitude <b>W 90° 40' 03.34"</b>	Calendar Date <b>2 / 23 / 2016</b>	Observer Initials <b>BW</b>





42, 3N, 23FEB2016

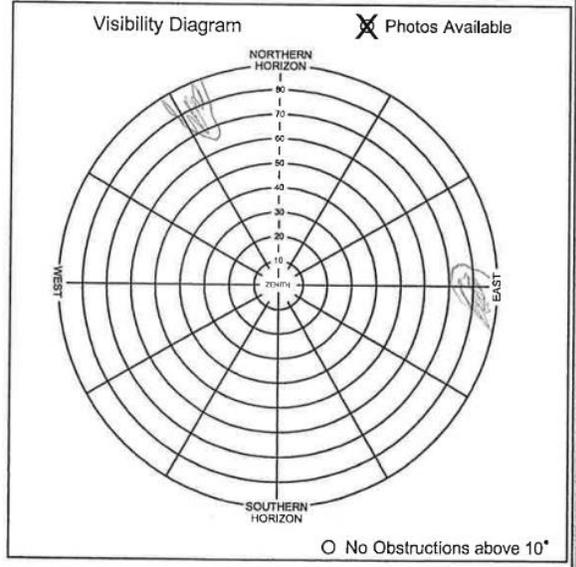
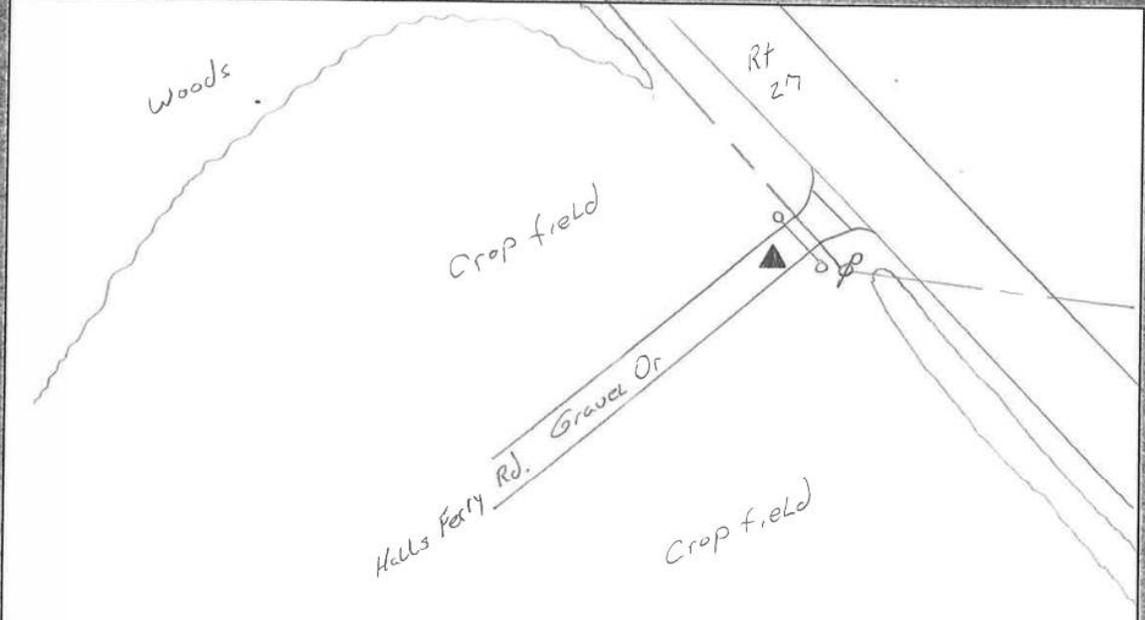


42, 3W, 23FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <i>43</i>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 32° 14' 51.01"</b>	Longitude <b>W 90° 45' 07.42"</b>	Calendar Date <i>2/23/2016</i>
		Observer Initials <b>BW</b>





**43, 3E, 23FEB2016**



**43, 3N, 23FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

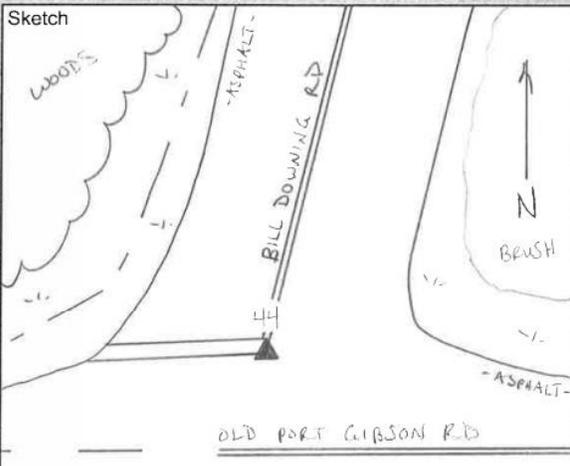


Station Designation 44	Airport LID & State <b>Mississippi</b>	Data File Name 76268_02232016_2RL.job	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time 14 : 13 local	Stop Time 14 : 25 local	Calendar Date 02/23/2016
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> OPACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID 44	Session	Julian Day 054



Latitude N 32° 13' 58.48"	Longitude W 90° 31' 35.19"
Antenna Ht. (before, include add. offsets) 2.00 m	E-Height 113.165

Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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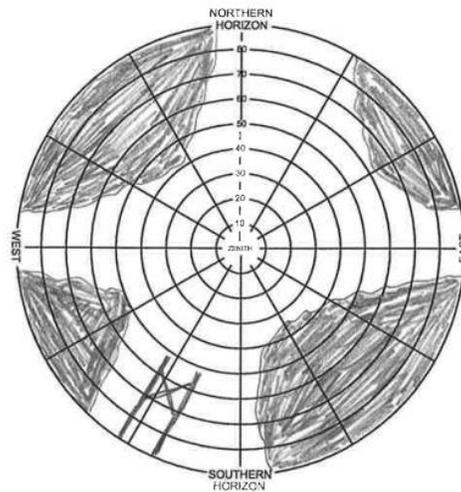


Location Description / Comments

X

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type PAINT STRIPE	

Visibility Diagram  Photos Available





**44, 3S, 23FEB2016**



**44, 3W, 23FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

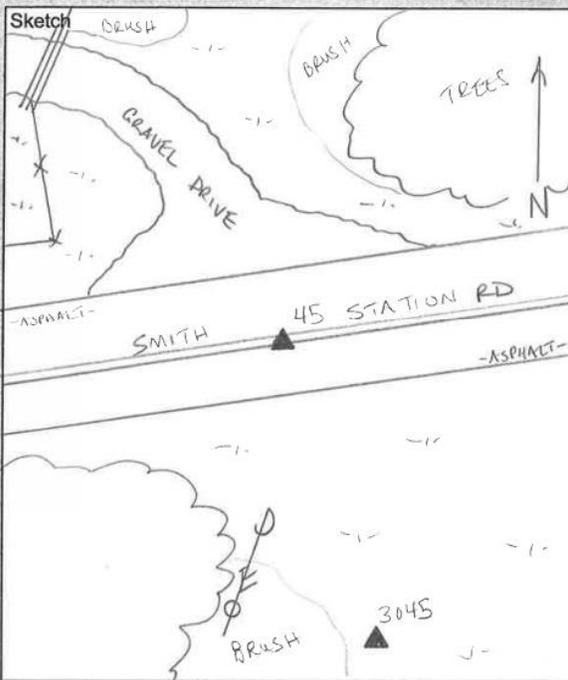


Station Designation <b>45</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02232016_24.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : 13 : 26 local	Stop Time : 13 : 32 local	Calendar Date 02/23/2016
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> OPACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID <b>45</b>	Session	Julian Day <b>054</b>



Latitude <b>N 32 ° 16 ' 49.41 "</b>	Longitude <b>W 90 ° 37 ' 22.27 "</b>
Antenna Ht. (before; include add. off/sets) <b>2.00m</b>	E-Height

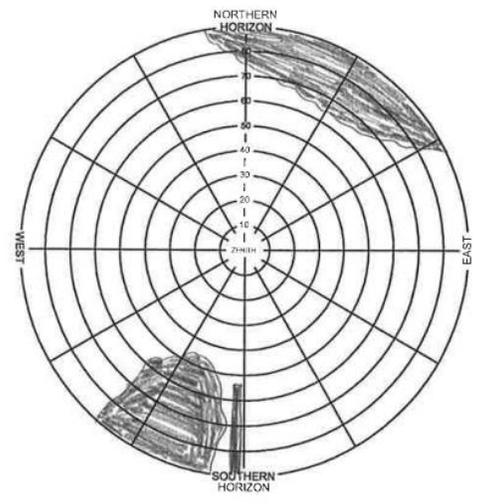
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments

X

Visibility Diagram  Photos Available



No Obstructions above 10'

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>CL ASPHALT RD</b>	



**45, 3S, 23FEB2016**

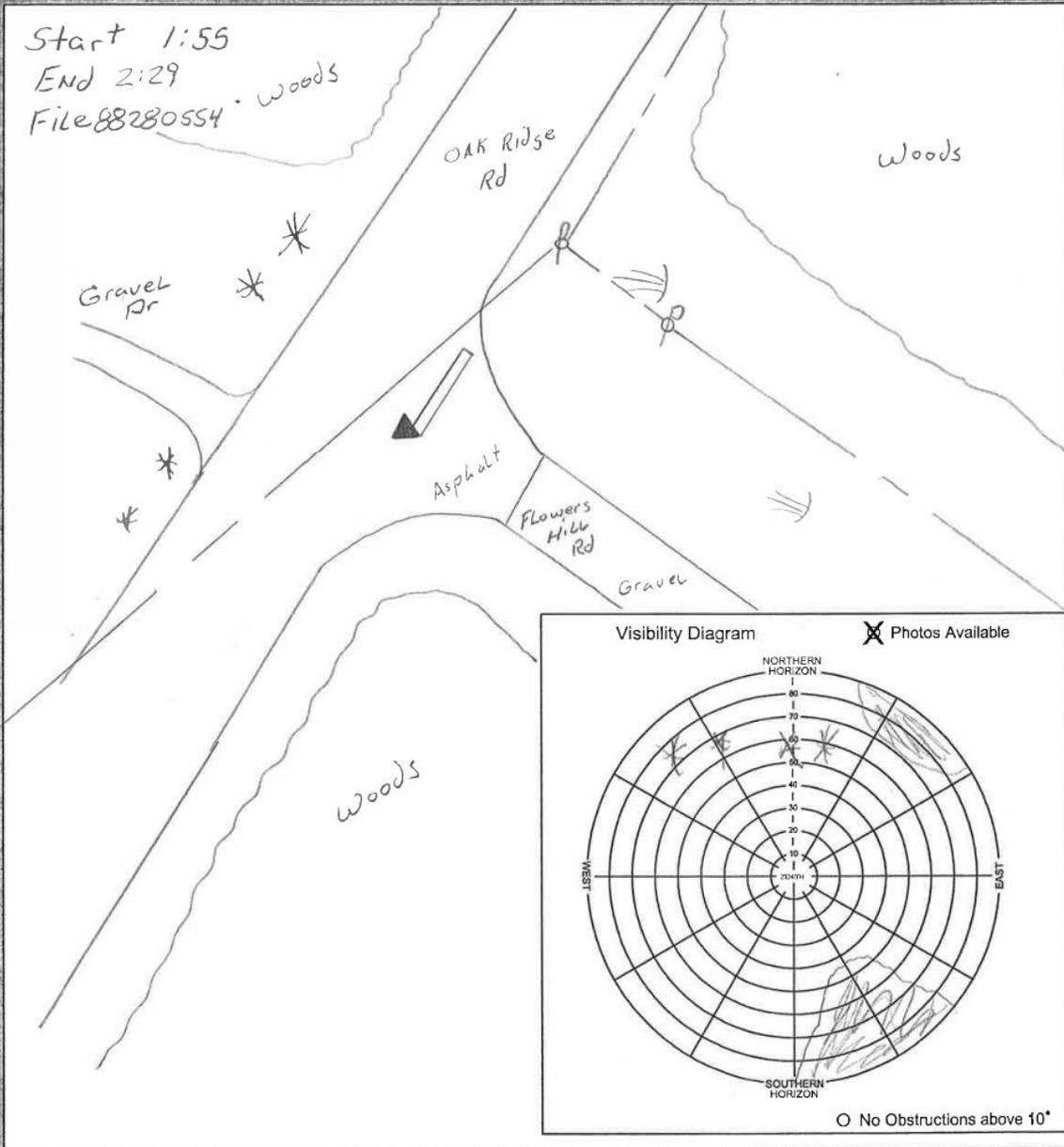


**45, 3W, 23FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LIDAR Control point # <i>46</i>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 32 ° 27 ' 48.60 "</b>	Longitude <b>W 90 ° 42 ' 48.73 "</b>	Calendar Date <i>2/24/2016</i>
		Observer Initials <b>BW</b>





**46, 3E, 24FEB2016**

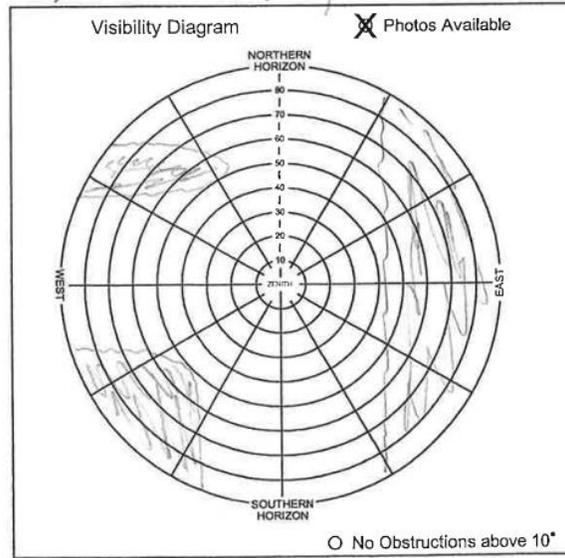
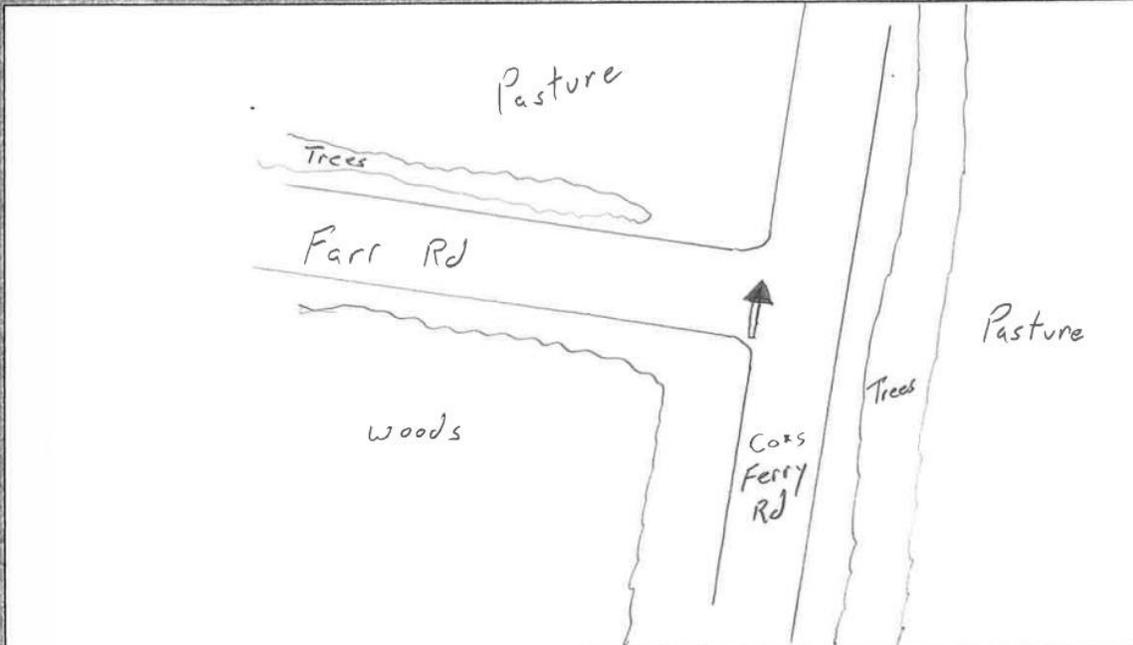


**46, 3N, 24FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LIDAR Control point # <b>47</b>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 32 ° 28 ' 58.27 "</b>	Longitude <b>W 90 ° 29 ' 16.10 "</b>	Calendar Date <b>2 / 25 / 2016</b>
		Observer Initials <b>BW</b>





**47, 3N, 25FEB2016**



**47, 3W, 25FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>48</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02222016_ZRLJOB</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
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Observer email <b>Zach.Leeseemann@Woolpert.com</b>
---

Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>
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Start Time : 16 : 03 local	Stop Time : 16 : 11 local	Calendar Date 02/22/2016
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:
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Station PID	Sta. SSN	Sta. ID 48	Session	Julian Day 053
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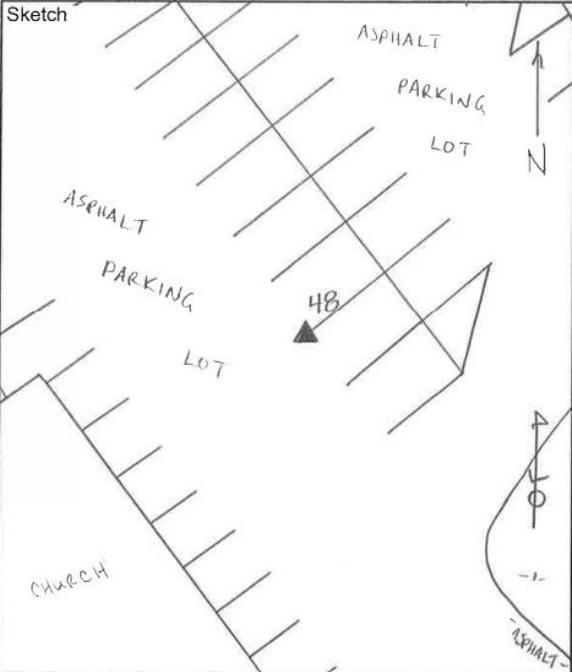
Latitude N 32 ° 08 ' 40.56 "	Longitude W 90 ° 28 ' 20.85 "
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Antenna Ht. (before; include add. offsets) 2.00 m	E-Height 220.175 sft
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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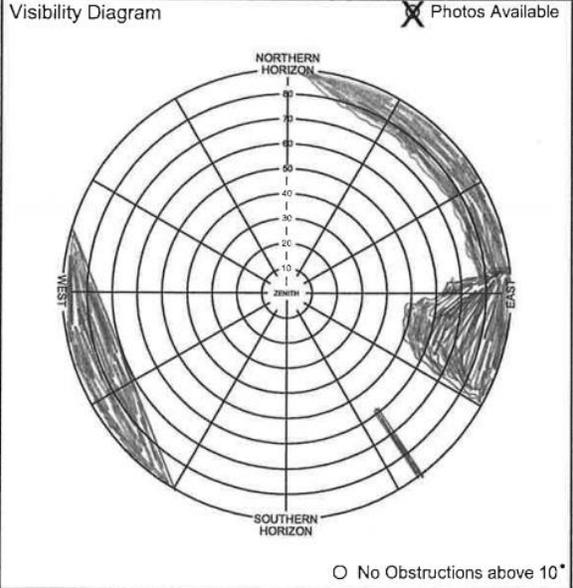
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--



Location Description / Comments <b>X</b>
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Setting Type • MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type PAINT STRIPE	





**48, 3NE, 22FEB2016**



**48, 3SE, 22FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>49</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268-02232016-ZPL Job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : <b>11 : 45</b> local	Stop Time : : <b>11 : 54</b> local	Calendar Date <b>02/23/2016</b>
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID -	Sta. SSN -	Sta. ID <b>49</b>	Session -	Julian Day <b>054</b>
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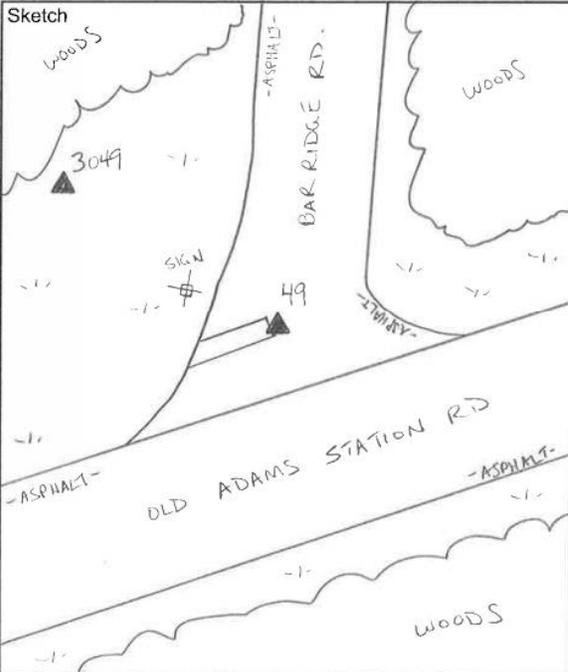
Latitude <b>N 32 ° 11 ' 42.44 "</b>	Longitude <b>W 90 ° 37 ' 23.57 "</b>
--	---

Antenna Ht. (before, include add. offsets) <b>2.00 m</b>	E-Height <b>263.8025 ft</b>
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Ant. Ht. Measured To  
 Bottom of Ant. Mt.  Other:  Yes  No

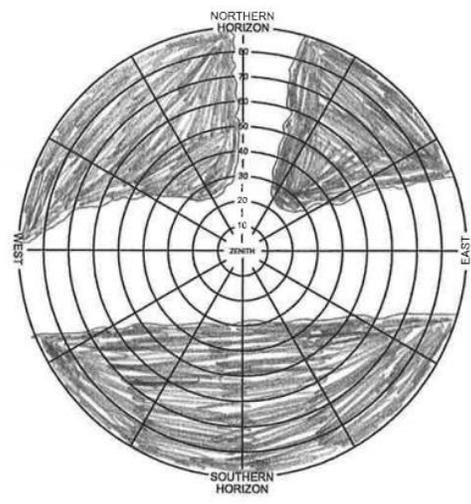
Tripod Type  
 Fixed-Ht.  Slip-leg  Fixed mount  Bi-pod

Receiver <b>R8-3</b>	Antenna <b>R8-3</b>
P/N <b>67250-66</b>	P/N <b>67250-66</b>
S/N <b>5211484428</b>	S/N <b>5211484428</b>



Location Description / Comments  
**X**

Visibility Diagram  Photos Available



No Obstructions above 10'

Setting Type <input checked="" type="checkbox"/> MARKED POINT	Monument Size <b>N/A</b>
<input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINT STRIPE</b>	



**49, 3SE, 23FEB2016**



**49, 3SW, 23FEB2016**





50, 3E, 22FEB2016



50, 3S, 22FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>51</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02222016.ZPL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
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Observer email <b>Zach.Leesemann@Woolpert.com</b>
--

Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>
---

Start Time : : utc <b>14 : 28</b> local	Stop Time : : utc <b>14 : 34</b> local	Calendar Date <b>02/22/2016</b>
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Station Classification				
<input type="checkbox"/> FBN	<input type="checkbox"/> CBN	<input type="checkbox"/> BM	<input type="checkbox"/> PACS	<input type="checkbox"/> SACS
<input type="checkbox"/> TSM	<input type="checkbox"/> EoR	<input type="checkbox"/> NAVAID	<input checked="" type="checkbox"/> Photo Control	<input type="checkbox"/> Other:

Station PID	Sta. SSN	Sta. ID <b>51</b>	Session	Julian Day <b>053</b>
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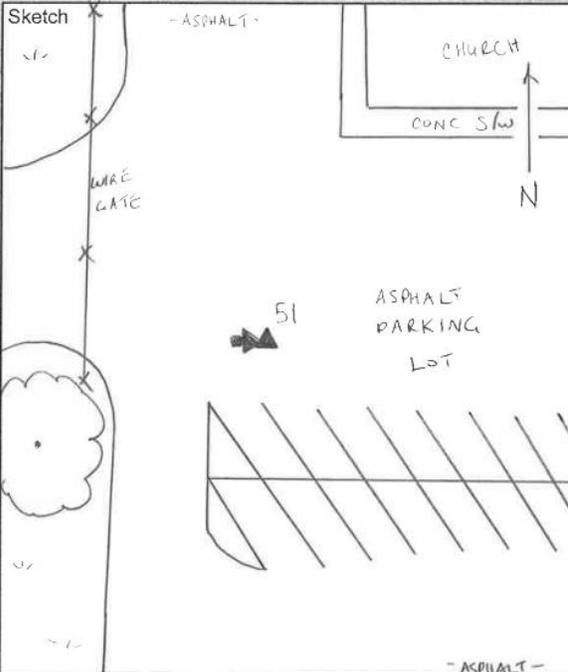
Latitude <b>N 32 ° 05 '12.75</b>	Longitude <b>W 90 ° 25 '39.32"</b>
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Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>257.541</b>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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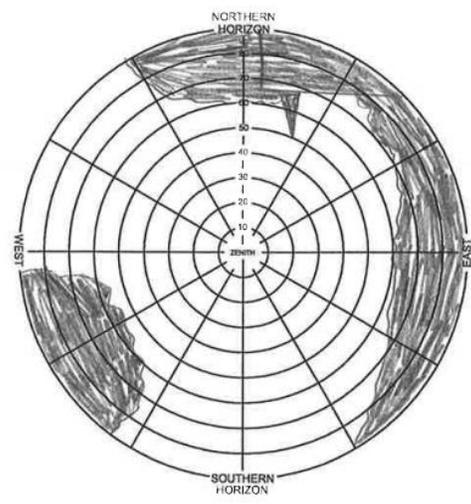
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver <b>R8-3</b> P/N 67250-66 S/N 5211484428	Antenna <b>R8-3</b> P/N 67250-66 S/N 5211484428
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Location Description / Comments <b>X</b>
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Visibility Diagram	<input checked="" type="checkbox"/> Photos Available
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Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINTED ARROW</b>	



**51, 3E, 22FEB2016**



**51, 3S, 22FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>52</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02222016_244.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
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Observer email <b>Zach.Leesemann@Woolpert.com</b>
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Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>
---

Start Time : 12 : 21 local	Stop Time : 12 : 28 local	Calendar Date 02/22/2016
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:
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Station PID	Sta. SSN	Sta. ID <b>52</b>	Session	Julian Day <b>053</b>
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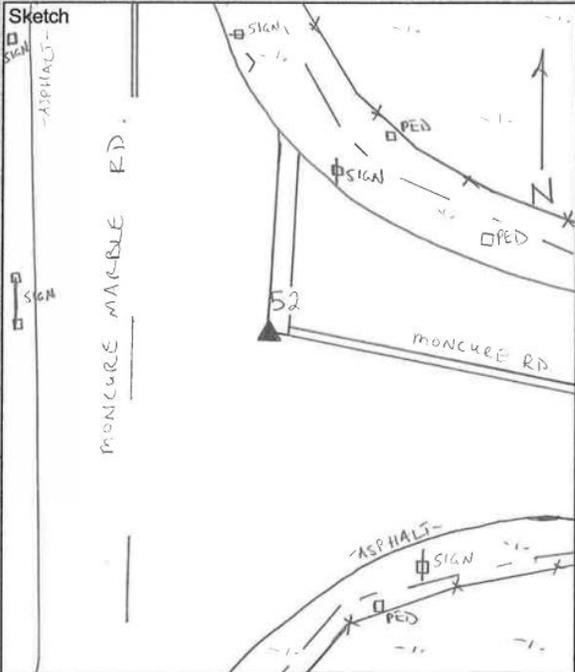
Latitude <b>N 32° 03' 44.85"</b>	Longitude <b>W 90° 16' 51.87"</b>
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Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>223.179 sft</b>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	---

Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

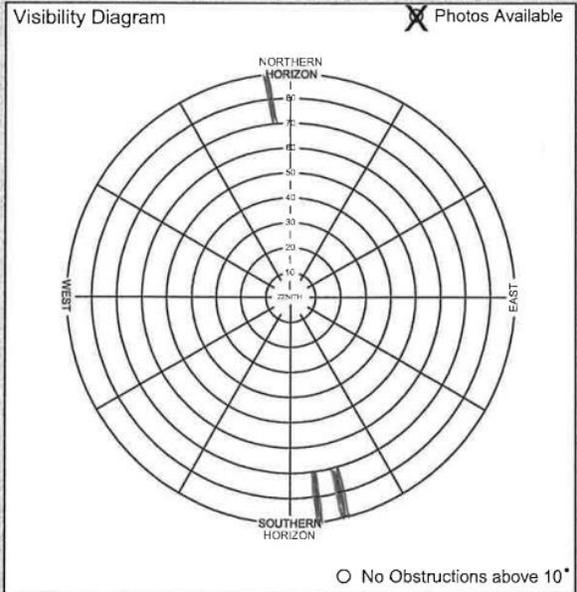
Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--



Location Description / Comments

X

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type PAINT STRIPE	





52, 3N, 22FEB2016



52, 3W, 22FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



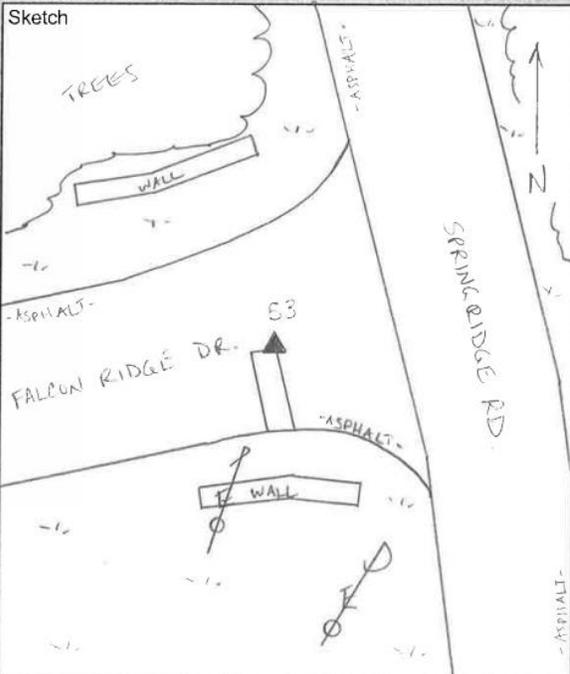
Station Designation 53	Airport LID & State <b>Mississippi</b>	Data File Name 53_44280540_T02	<input type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time 8 : 35 local	Stop Time 9 : 00 local	Calendar Date 03/23/2016
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID	Session	Julian Day
		53		054

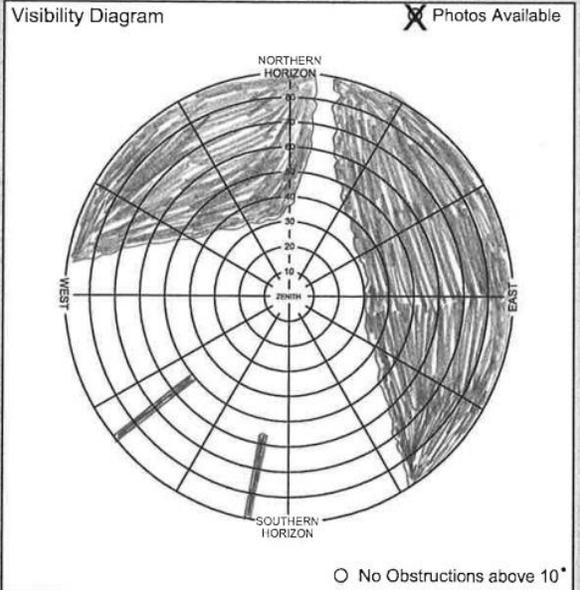
Latitude N 32 ° 13 ' 03.26 "	Longitude W 90 ° 20 ' 45.65 "
Antenna Ht. (before, include add. offsets) 2.00 m	E-Height 349.9 sft
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	



Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

Location Description / Comments

X



Setting Type • MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type PAINT STRIPE	



53, 3E, 23FEB2016



53, 3S, 23FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>54</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02242016_ZFL Job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
--	------------------------------

Observer email <b>Zach.Leesemann@Woolpert.com</b>
--

Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>
---

Start Time : 16 : 45 local	Stop Time : 16 : 51 local	Calendar Date 02/24/2016
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Station Classification				
<input type="checkbox"/> FBN	<input type="checkbox"/> CBN	<input checked="" type="checkbox"/> BM	<input type="checkbox"/> PACS	<input type="checkbox"/> SACS
<input type="checkbox"/> TSM	<input type="checkbox"/> EoR	<input type="checkbox"/> NAVAID	<input checked="" type="checkbox"/> Photo Control	<input type="checkbox"/> Other:

Station PID	Sta. SSN	Sta. ID <b>54</b>	Session	Julian Day <b>055</b>
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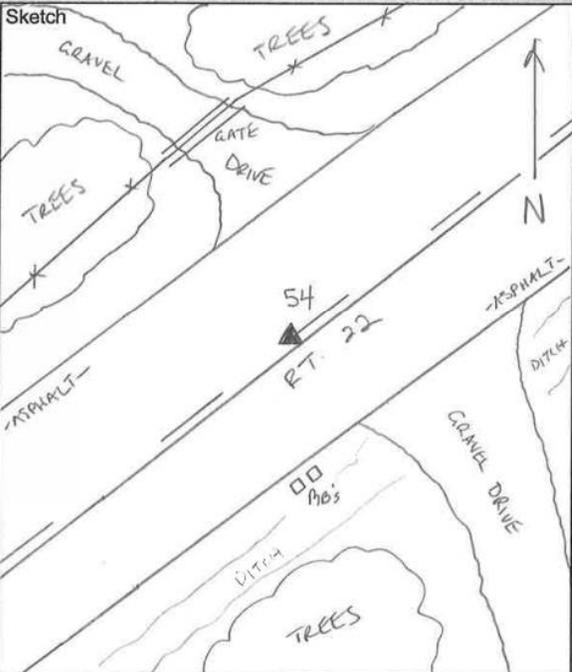
Latitude <b>N 32° 25' 16.02"</b>	Longitude <b>W 90° 29' 50.98"</b>
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Antenna Ht. (before, include add. offsets) <b>2.00 m</b>	E-Height <b>176.944 sft</b>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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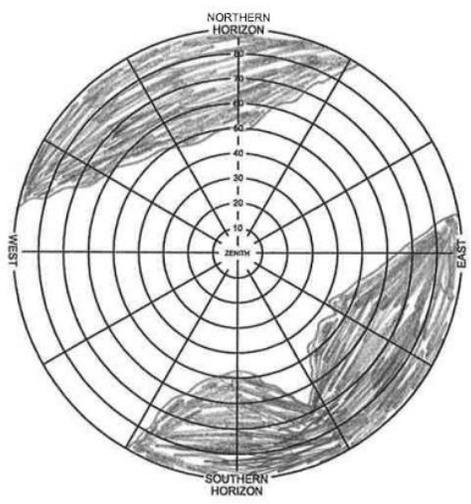
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--



Location Description / Comments <b>X</b>
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Visibility Diagram	<input checked="" type="checkbox"/> Photos Available
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No Obstructions above 10'

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINT STRIKE</b>	



**54, 3NE, 24FEB2016**



**54, 3NW, 24FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>55</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02242016_ZLL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : : <b>14 : 24</b> local	Stop Time : : : <b>14 : 30</b> local	Calendar Date <b>02 / 24 / 2016</b>
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Station Classification  
 FBN    CBN    BM    OPACS    SACS    TSM  
 EoR    NAVAID    Photo Control    Other:

Station PID	Sta. SSN	Sta. ID <b>55</b>	Session	Julian Day <b>055</b>
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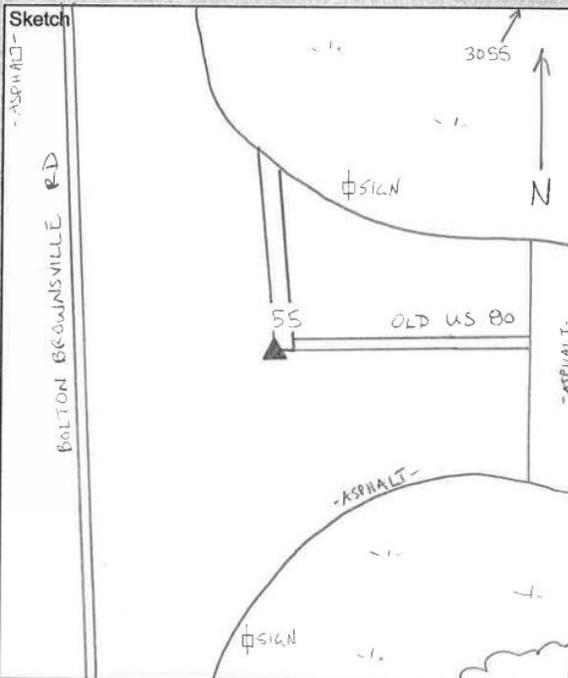
Latitude <b>N 32 ° 21 '45.93 "</b>	Longitude <b>W 90 ° 27 '50.91 "</b>
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Antenna Ht. (before; include add. offsets) <b>2.00m</b>	E-Height <b>137.568 sft</b>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	---

Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

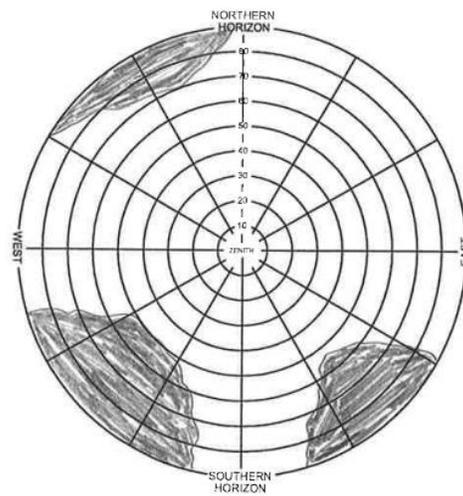


Location Description / Comments

X

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINT STRIPE</b>	

Visibility Diagram  Photos Available



○ No Obstructions above 10'



**55, 3S, 24FEB2016**



**55, 3W, 24FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

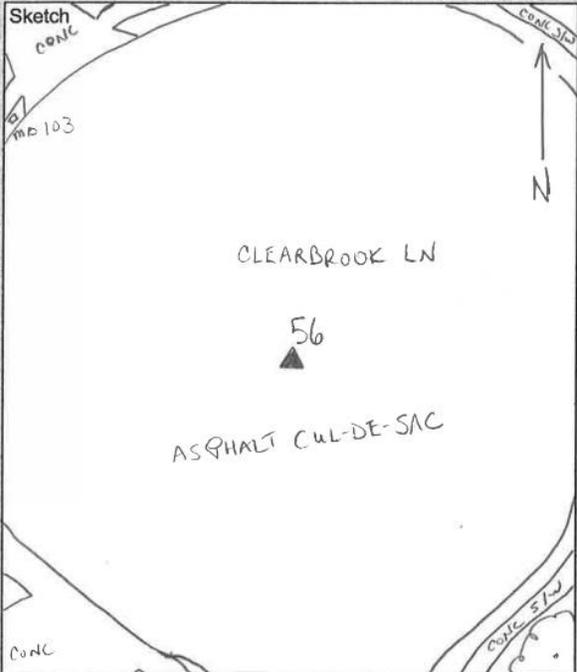


Station Designation <b>56</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02232016_ZRL job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : 16 : 02 local	Stop Time : : 16 : 12 local	Calendar Date <b>02/23/2016</b>
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> OPACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID —	Sta. SSN —	Sta. ID <b>56</b>	Session —	Julian Day <b>054</b>

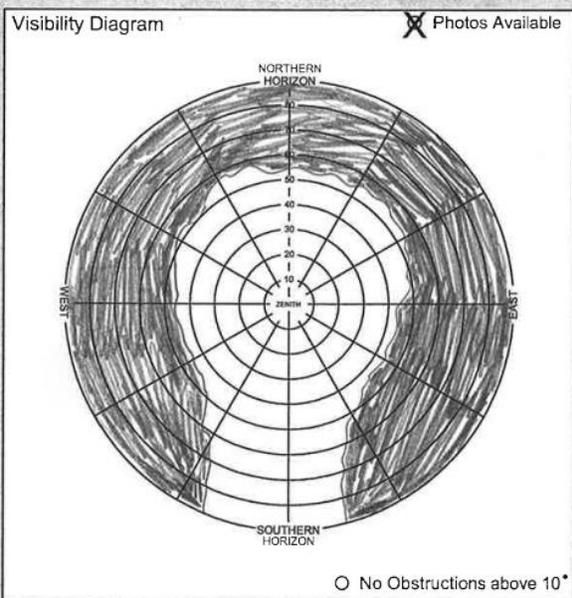


Latitude <b>N 32 ° 20 ' 45.13 "</b>	Longitude <b>W 90 ° 20 ' 50.09 "</b>
Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>235.334 sft</b>
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

Location Description / Comments

X



Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>CENTER ASPHALT CUL-DE-SAC</b>	



**56, 3N, 23FEB2016**



**56, 3W, 23FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>57</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>75268_02242016_22L.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : 13 : 19 local	Stop Time : 13 : 23 local	Calendar Date <b>02/24/2016</b>
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID -	Sta. SSN -	Sta. ID <b>57</b>	Session -	Julian Day <b>055</b>
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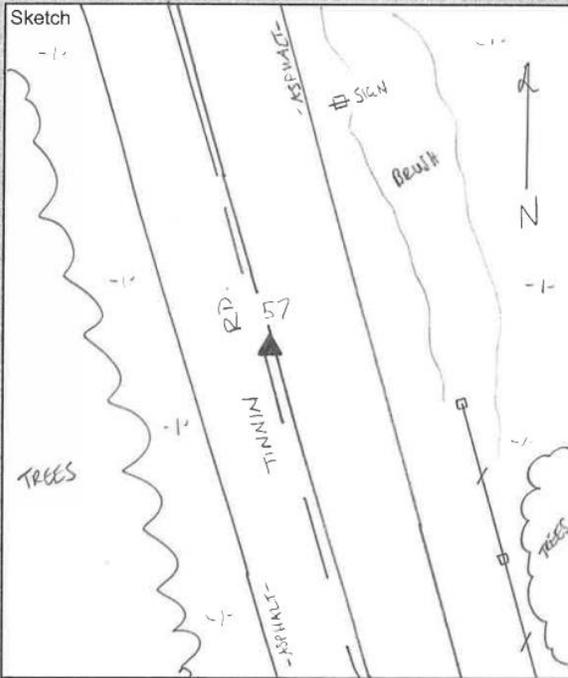
Latitude <b>N 32 ° 27 ' 02.56 "</b>	Longitude <b>W 90 ° 22 ' 28.80 "</b>
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Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>189.256 sft</b>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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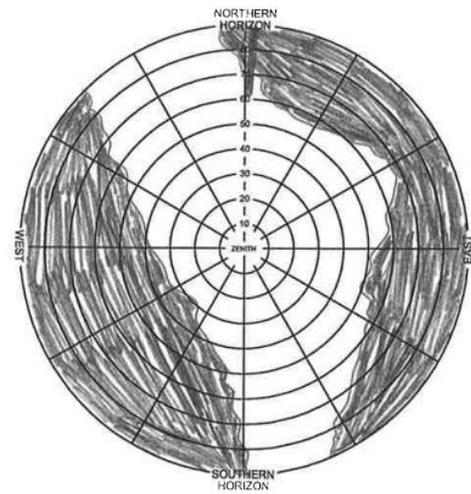
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--



Location Description / Comments  
**X**

Visibility Diagram  Photos Available



No Obstructions above 10'

Setting Type <input checked="" type="checkbox"/> MARKED <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpert, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINT STRIPE</b>	



**57, 3NW, 24FEB2016**



**57, 3SW, 24FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation 58	Airport LID & State <b>Mississippi</b>	Data File Name 76268-02242016-ZFL.job	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeseemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time 11 : 28 local	Stop Time 11 : 37 local	Calendar Date 02/24/2016
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID	Sta. SSN	Sta. ID 58	Session	Julian Day 055
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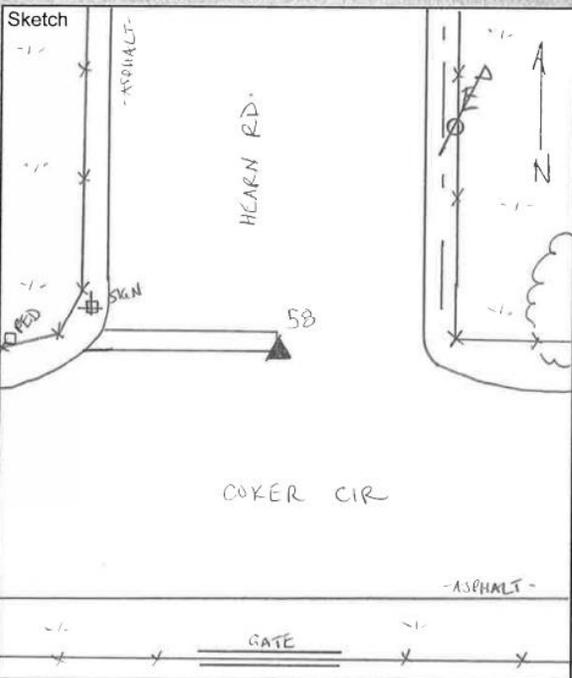
Latitude N 32° 28' 49.00"	Longitude W 90° 15' 38.68"
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Antenna Ht. (before, include add. offsets) 2.00 m	E-Height 163.052 sft
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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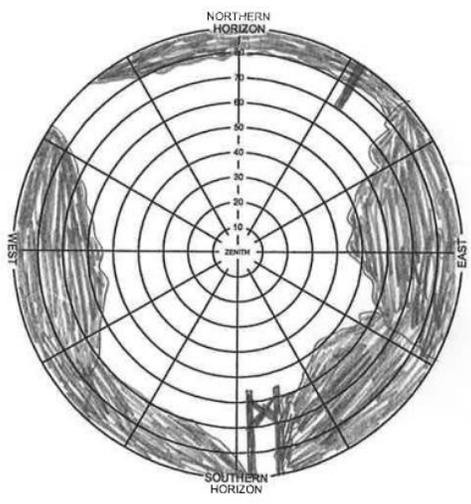


Location Description / Comments

X

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type PAINT STRIPE	

Visibility Diagram  Photos Available



No Obstructions above 10°



**58, 3N, 24FEB2016**



**58, 3W, 24FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>59</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268-02242016-ZRL job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : 10 : 10 local	Stop Time : 10 : 15 local	Calendar Date <b>02/24/2016</b>
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID -	Sta. SSN -	Sta. ID <b>59</b>	Session -	Julian Day <b>055</b>
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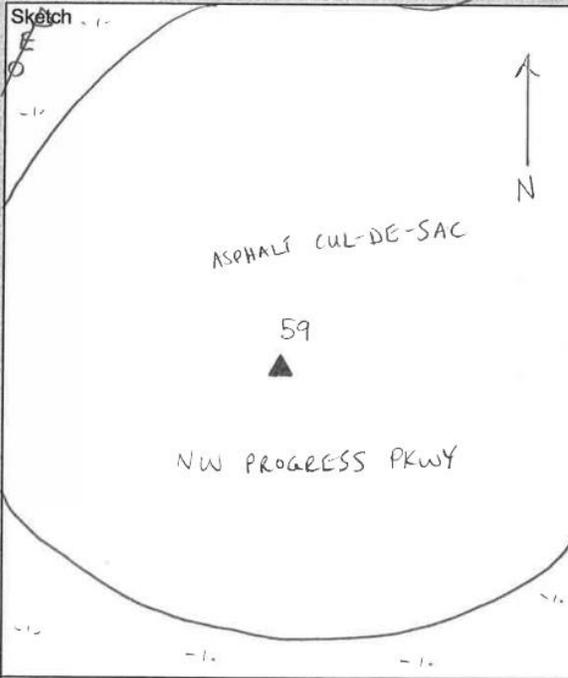
Latitude <b>N 32 ° 23 '11.02 "</b>	Longitude <b>W 90 ° 13 '49.17 "</b>
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Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>259.961 sft</b>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

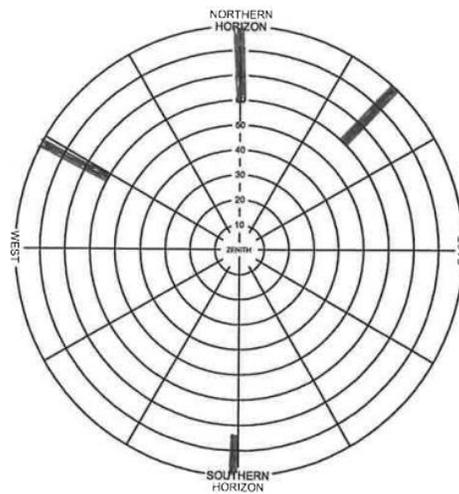
Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments

X

Visibility Diagram  Photos Available



○ No Obstructions above 10'

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>CENTER ASPHALT CUL-DE-SAC</b>	



**59, 3E, 24FEB2016**



**59, 3S, 24FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>60</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02242016_ZEL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : utc <b>11 : 02</b> local	Stop Time : : utc <b>11 : 07</b> local	Calendar Date <b>02/24/2016</b>
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID	Sta. SSN	Sta. ID <b>60</b>	Session	Julian Day <b>055</b>
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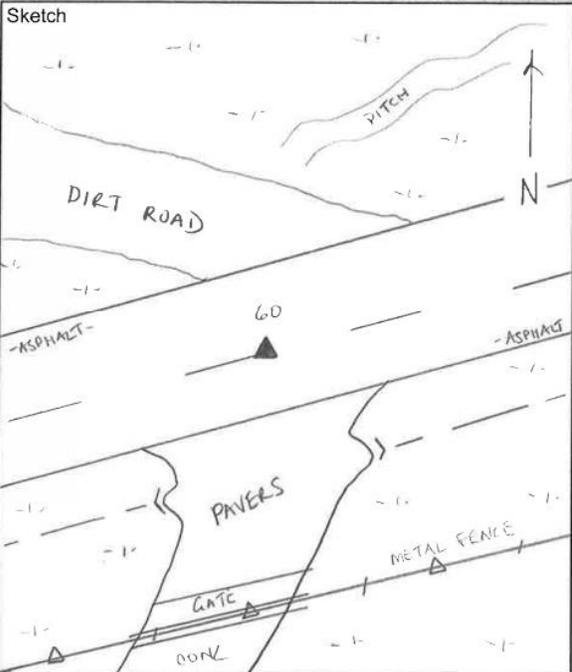
Latitude <b>N 32 ° 26 ' 19.33 "</b>	Longitude <b>W 90 ° 18 ' 32.40 "</b>
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Antenna Ht. (before; include add, offsets) <b>2.00m</b>	E-Height <b>146.8315ft</b>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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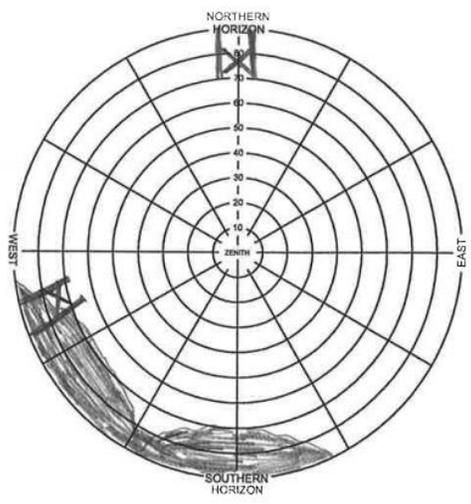
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--



Location Description / Comments  
**X**

Visibility Diagram  Photos Available



No Obstructions above 10'

Setting Type • <b>MARKED POINT</b>	Monument Size <b>N/A</b>
<input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINT STRIPE</b>	



**60, 3NE, 24FEB2016**



**60, 3SE, 24FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

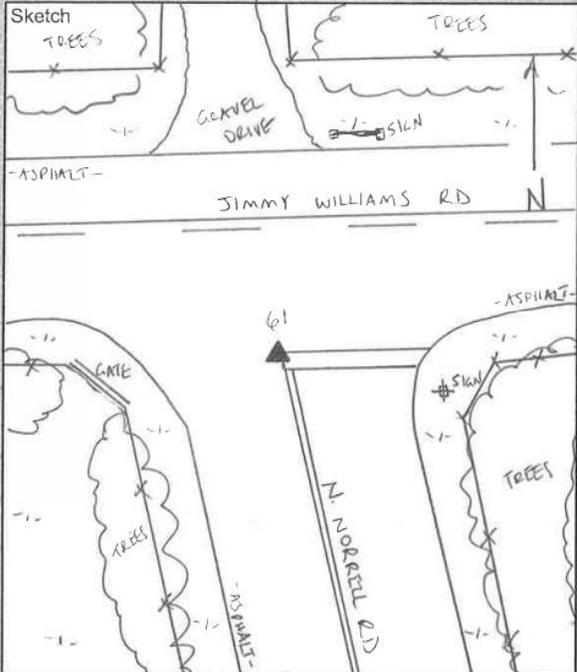


Station Designation 61	Airport LID & State <b>Mississippi</b>	Data File Name 76268_02242016_2RL.job	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time 13 : 37 local	Stop Time 13 : 45 local	Calendar Date 02/24/2016
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Station Classification				
<input type="checkbox"/> FBN	<input type="checkbox"/> CBN	<input type="checkbox"/> BM	<input type="checkbox"/> PACS	<input type="checkbox"/> SACS
<input type="checkbox"/> TSM	<input type="checkbox"/> EoR	<input type="checkbox"/> NAVAID	<input checked="" type="checkbox"/> Photo Control	<input type="checkbox"/> Other:
Station PID	Sta. SSN	Sta. ID 61	Session	Julian Day 055

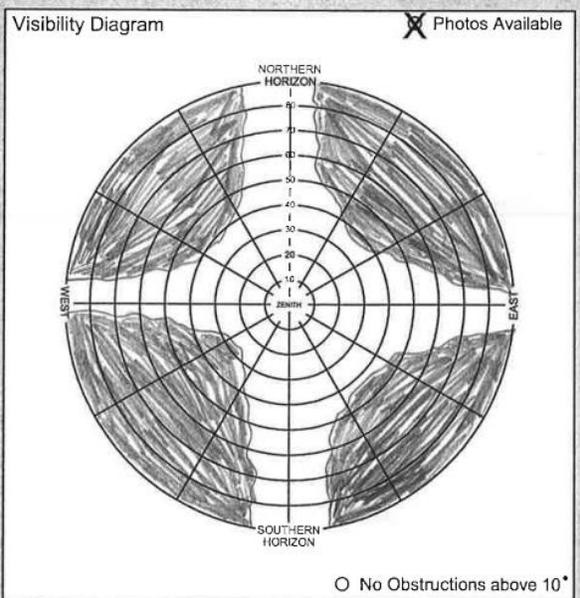


Latitude N 32° 24 '20.58"	Longitude W 90° 24 '13.49"
Antenna Ht. (before, include acc. offsets) 2.00 m	E-Height 232.935 sft
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

Location Description / Comments

X



Setting Type <input checked="" type="checkbox"/> MARKED POINT	Monument Size N/A
<input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	
Stamping N/A	Inscription (i.e. NGS, Woolpert, etc.) N/A
Photo Ctrl Target Type PAINT STRIPE	



61, 3E, 24FEB2016



61, 3N, 24FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>62</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268-02242016-ZRL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
--	------------------------------

Observer email <b>Zach.Leesemann@Woolpert.com</b>
--

Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>
---

Start Time : : : <b>7 : 50</b> local	Stop Time : : : <b>7 : 57</b> local	Calendar Date <b>02 / 24 / 2016</b>
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:
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Station PID	Sta. SSN	Sta. ID <b>62</b>	Session <b>-</b>	Julian Day <b>055</b>
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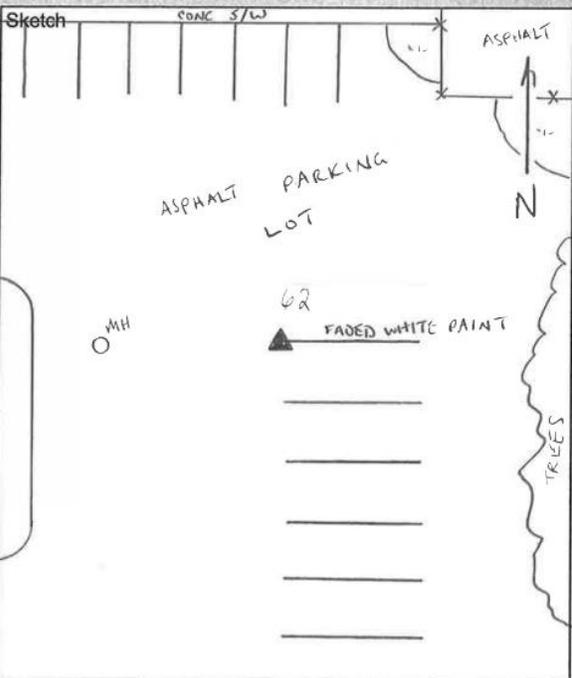
Latitude <b>N 32 ° 20 ' 08.62 "</b>	Longitude <b>W 90 ° 09 ' 12.55 "</b>
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Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>204.571 sft</b>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

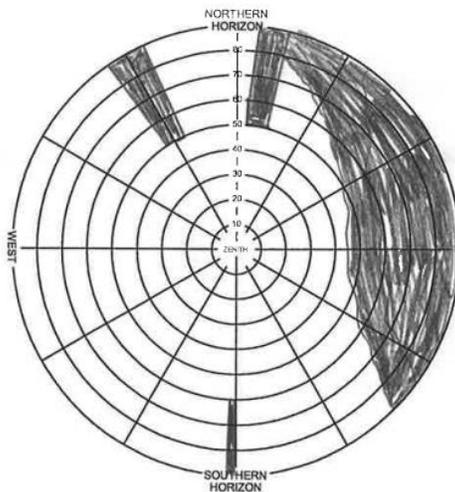
Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--



Location Description / Comments <b>X</b>
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Setting Type <input checked="" type="checkbox"/> MARKED POINT	Monument Size <b>N/A</b>
<input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>FADED PAINT STRIPE</b>	

Visibility Diagram	<input checked="" type="checkbox"/> Photos Available
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**62, 3E, 24FEB2016**



**62, 3N, 24FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>63</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02232016_RL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : <b>16 : 40</b> local	Stop Time : <b>16 : 47</b> local	Calendar Date <b>02 / 23 / 2016</b>
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID <b>63</b>	Session	Julian Day <b>054</b>

Sketch

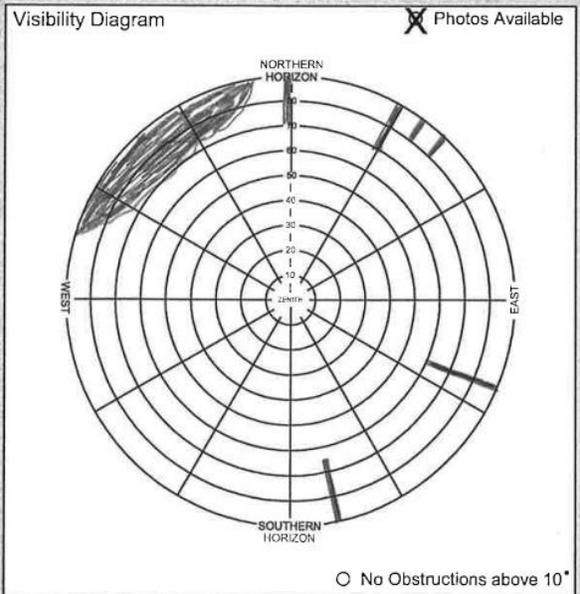
Latitude <b>N 32 ° 19 ' 09.57 "</b>	Longitude <b>W 90 ° 14 ' 44.08 "</b>
Antenna Ht. (before, include add. offsets) <b>2.00 m</b>	E-Height <b>237.917 sft</b>

Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments

**X**



Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>CORNER PAINT</b>	



**63, 3N, 23FEB2016**



**63, 3W, 23FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>64</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>64-44280530.T02</b>	<input type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
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Observer email <b>Zach.Leesemann@Woolpert.com</b>
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Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>
---

Start Time : : <b>9 : 08</b> local	Stop Time : : <b>9 : 19</b> local	Calendar Date <b>02/22/2016</b>
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:
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Station PID -	Sta. SSN -	Sta. ID <b>64</b>	Session -	Julian Day <b>053</b>
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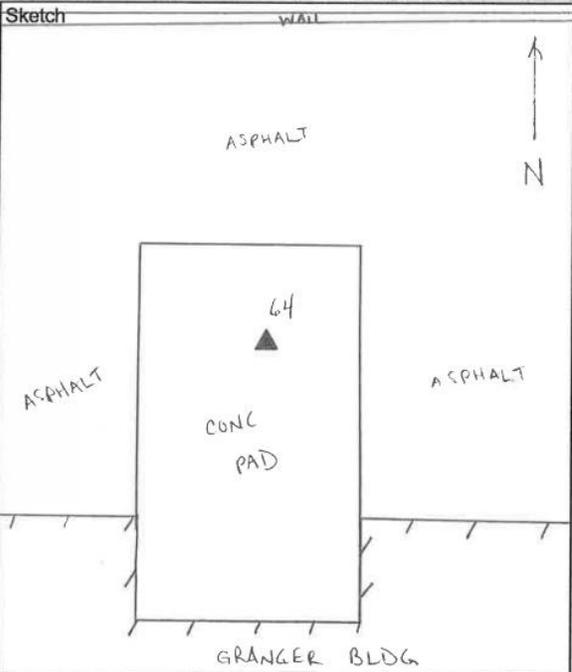
Latitude <b>N 32 ° 14 '56.88 "</b>	Longitude <b>W 90 ° 12 '50.18 "</b>
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Antenna Ht. (before, include add. offsets) <b>2.00 m</b>	E-Height <b>243.5 sft</b>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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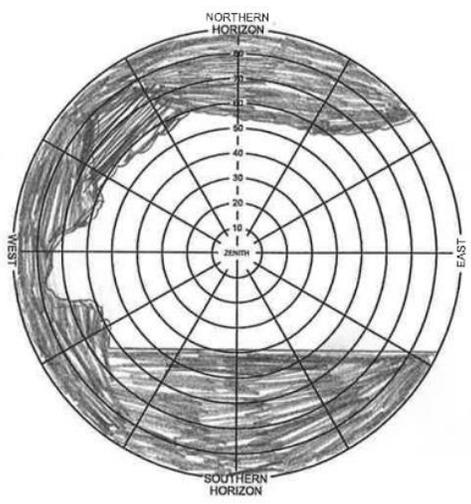
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments <b>X</b>
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Visibility Diagram	<input checked="" type="checkbox"/> Photos Available
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Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>CENTER CONC. PAD</b>	

No Obstructions above 10'



**64, 3E, 22FEB2016**



**64, 3S, 22FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>65</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02222016_ZPL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
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Observer email <b>Zach.Leeemann@Woolpert.com</b>
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Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>
---

Start Time : : utc <b>11 : 06</b> local	Stop Time : : utc <b>11 : 13</b> local	Calendar Date <b>02/22/2016</b>
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Station Classification <input type="checkbox"/> EBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:
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Station PID	Sta. SSN	Sta. ID <b>65</b>	Session	Julian Day <b>055</b>
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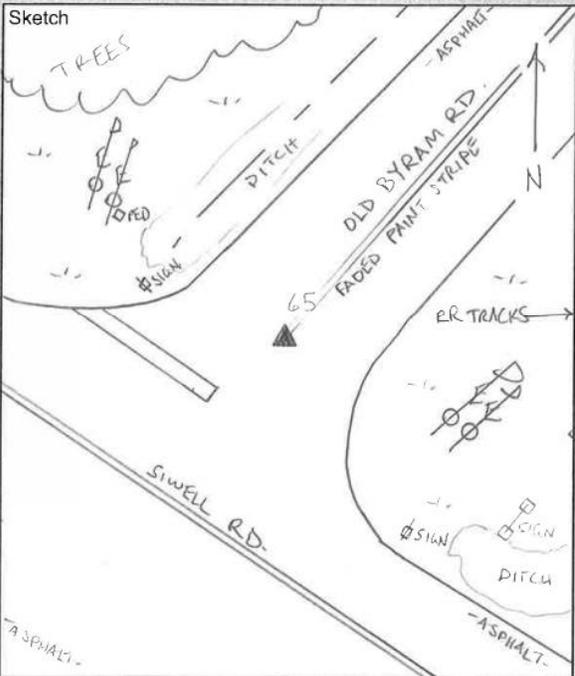
Latitude <b>N 32° 10' 45.50"</b>	Longitude <b>W 90° 14' 42.32"</b>
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Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>176.813 sft</b>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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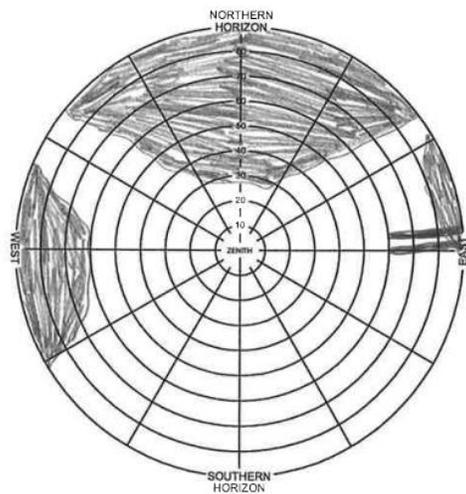
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--



Location Description / Comments <b>X</b>
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Visibility Diagram	<input checked="" type="checkbox"/> Photos Available
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○ No Obstructions above 10'

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>FADED PAINT STRIPE</b>	



**65, 3NW, 22FEB2016**



**65, 3SW, 22FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <i>66</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>76268-02172016-2PL.job</i>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : : <i>14 : 20</i> local	Stop Time : : : <i>14 : 31</i> local	Calendar Date <i>02/17/2016</i>
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID	Sta. SSN	Sta. ID <i>66</i>	Session	Julian Day <i>048</i>
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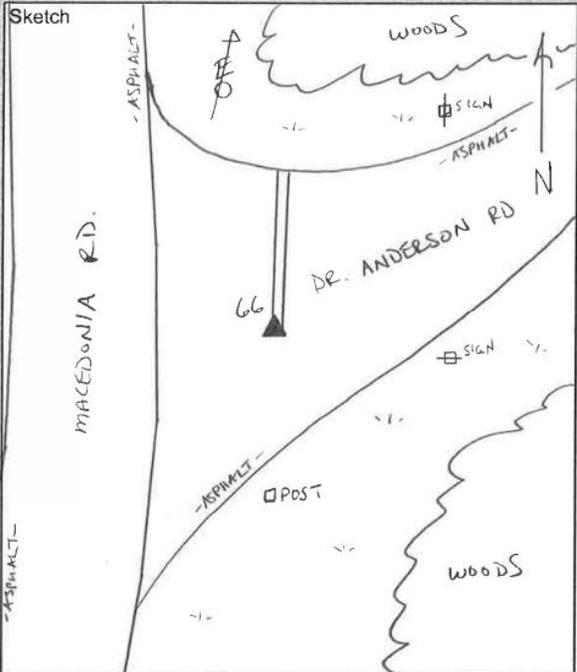
Latitude <i>N 31 ° 06 ' 25.05 "</i>	Longitude <i>W 91 ° 04 ' 03.61 "</i>
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Antenna Ht. (before; include add, offsets) <i>2.00 m</i>	E-Height <i>285.487 sf4</i>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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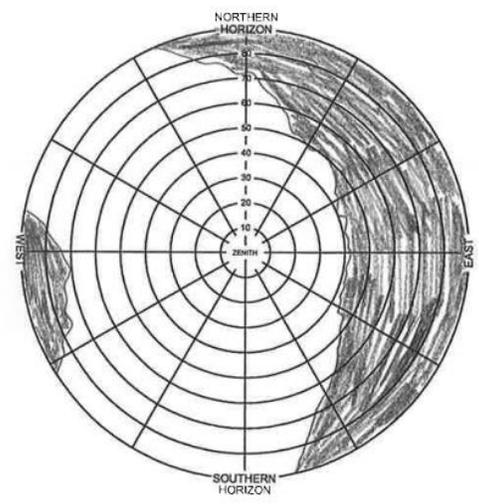
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--



Location Description / Comments  
*X*

Visibility Diagram  Photos Available



No Obstructions above 10'

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <i>N/A</i>
Stamping <i>N/A</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>N/A</i>
Photo Ctrl Target Type <i>PAINT STRIPE</i>	



**66, 3N, 17FEB2016**



**66, 3W, 17FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>67</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02172016_ZPL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : 10 : 34 local	Stop Time : 10 : 43 local	Calendar Date 02/17/2016
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID	Sta. SSN	Sta. ID <b>67</b>	Session	Julian Day <b>048</b>
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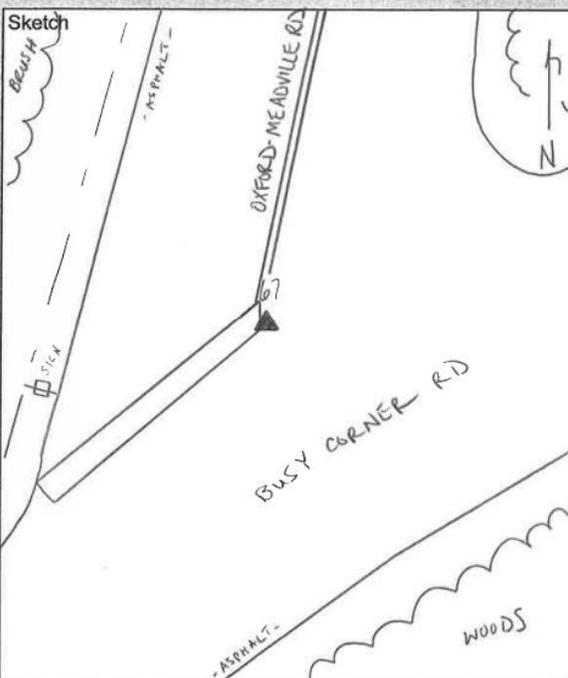
Latitude <b>N 31 ° 15 '34.34"</b>	Longitude <b>W 90 ° 53 '53.17 "</b>
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Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>328.88 ft</b>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

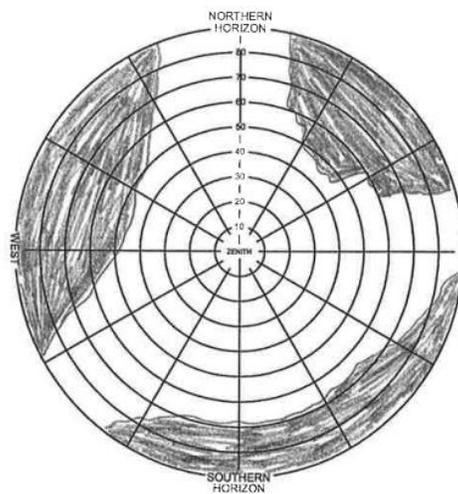
Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINT STRIPE</b>	

Visibility Diagram  Photos Available



No Obstructions above 10'



**67, 3S, 17FEB2016**



**67, 3W, 17FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

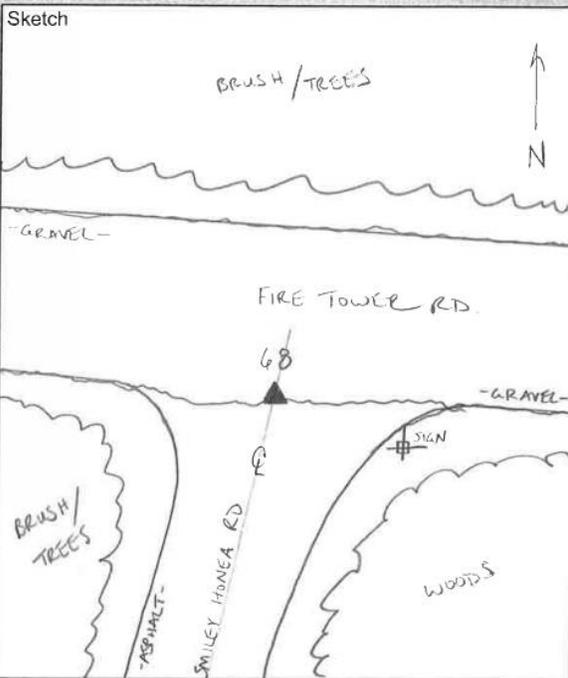


Station Designation <i>68</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>76268 - 02162016 - RLL job</i>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : : <i>15 : 53</i> local	Stop Time : : : <i>16 : 00</i> local	Calendar Date <i>02/16/2016</i>
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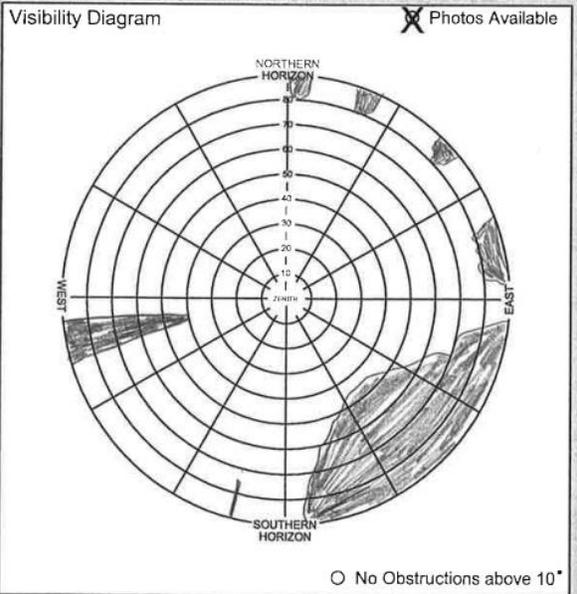
Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID <i>68</i>	Session <i>-</i>	Julian Day <i>047</i>



Latitude <i>N 31° 09' 32.22"</i>	Longitude <i>W 90° 35' 28.00"</i>
Antenna Ht. (before, include add. offsets) <i>2.00 M</i>	E-Height <i>343.554 sft</i>
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments  
*X*



Setting Type • MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <i>N/A</i>
Stamping <i>N/A</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>N/A</i>
Photo Ctrl Target Type <i>CL GRAVEL RD</i>	



**68, 3E, 16FEB2016**



**68, 3N, 16FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>69</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268-02172016-ZRL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : : <b>9 : 07</b> local	Stop Time : : : <b>9 : 15</b> local	Calendar Date <b>02/17/2016</b>
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID	Sta. SSN	Sta. ID <b>69</b>	Session	Julian Day <b>048</b>
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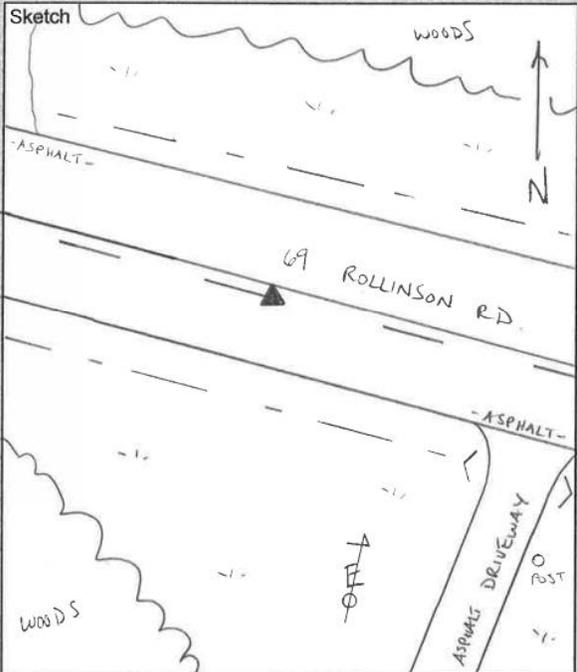
Latitude <b>N 31 ° 17 '30.52"</b>	Longitude <b>W 90 ° 43 '37.12"</b>
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Antenna Ht. (before; include add., offsets) <b>2.00 m</b>	E-Height <b>353.978 sf t</b>
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Ant. Ht. Measured To  Bottom of Ant. Mt.  Other:  Yes  No

Tripod Type  
 Fixed-Ht.  Slip-leg  Fixed mount  Bi-pod

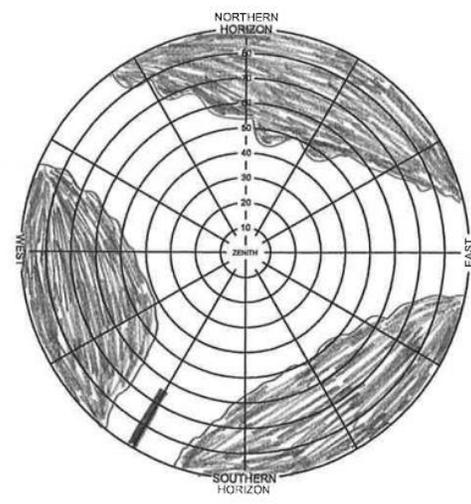
Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments  
**X**

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINT STRIPE</b>	

Visibility Diagram  Photos Available





**69, 3E, 17FEB2016**

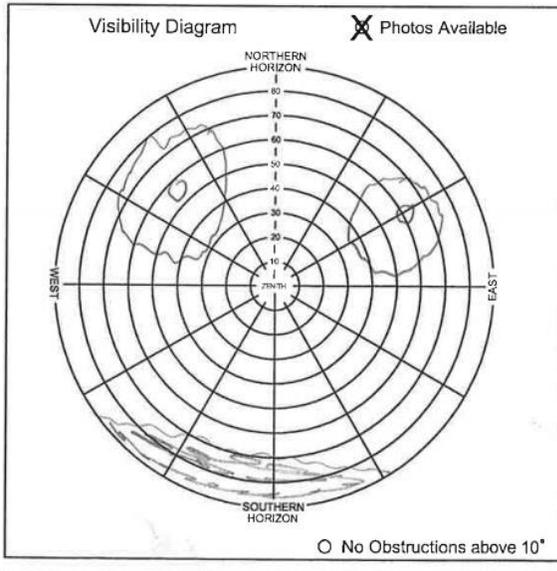
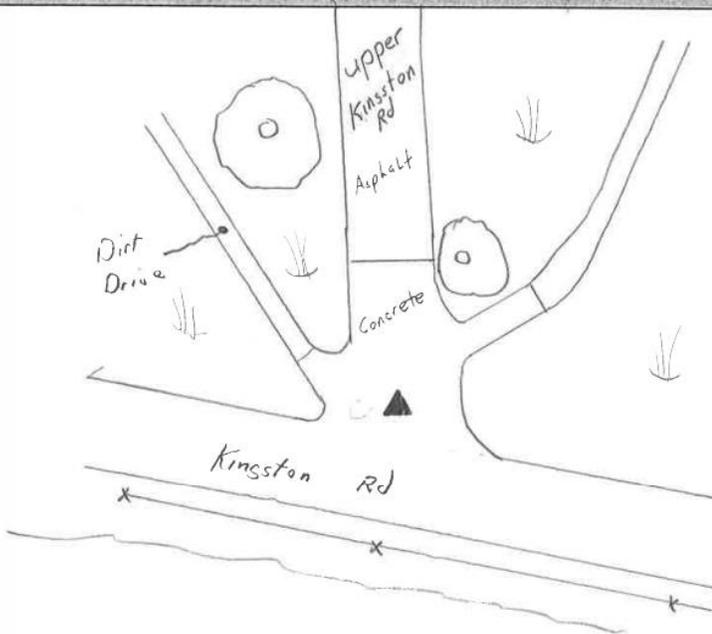


**69, 3S, 17FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <b>70</b>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 31 ° 24 ' 28.72 "</b>	Longitude <b>W 91 ° 16 ' 43.74 "</b>	Calendar Date <b>2 / 19 / 2016</b>
		Observer Initials <b>BW</b>





**70, 3E, 19FEB2016**



**70, 3N, 19FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

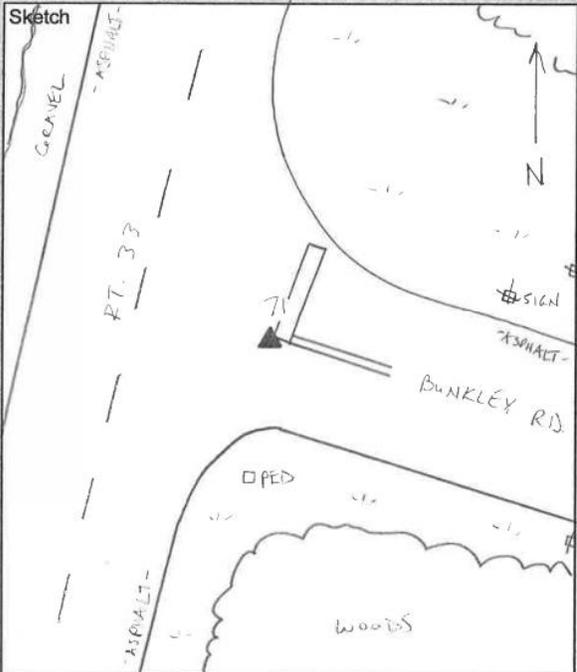


Station Designation <b>71</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02192016_ZACH.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone	
Office - <b>937 . 531 . 1211</b>	Cell - <b>937 . 684 . 0558</b>

Start Time : : : utc <b>12 : 28 local</b>	Stop Time : : : utc <b>12 : 33 local</b>	Calendar Date <b>02 / 19 / 2016</b>
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Station Classification				
<input type="checkbox"/> FBN	<input type="checkbox"/> CBN	<input type="checkbox"/> BM	<input type="checkbox"/> PACS	<input type="checkbox"/> SACS
<input type="checkbox"/> TSM	<input type="checkbox"/> EoR	<input type="checkbox"/> NAVAID	<input checked="" type="checkbox"/> Photo Control	<input type="checkbox"/> Other:
Station PID	Sta. SSN	Sta. ID <b>71</b>	Session	Julian Day <b>050</b>



Latitude <b>N 31 ° 22 ' 51.30 "</b>	Longitude <b>W 91 ° 07 ' 06 31 "</b>
Antenna Ht. (before, include add. offsets) <b>2.00 m</b>	E-Height <b>56 820 sft</b>

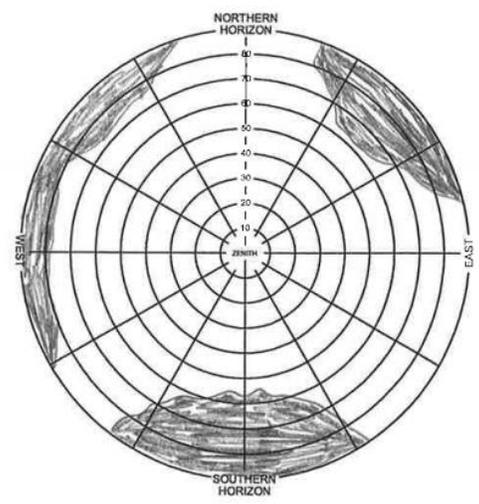
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments

X

Visibility Diagram  Photos Available



Setting Type <input checked="" type="checkbox"/> MARKED POINT	Monument Size
<input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	<b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINT STRIPE</b>	

No Obstructions above 10'



**71, 3N, 19FEB2016**



**71, 3W, 19FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

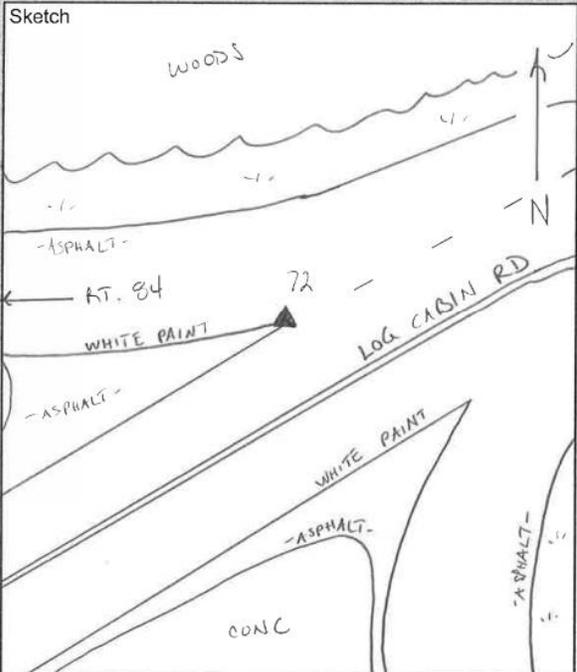


Station Designation 72	Airport LID & State <b>Mississippi</b>	Data File Name 76268_02192016_2RL.job	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time 9 : 41 local	Stop Time 9 : 48 local	Calendar Date 02/19/2016
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID	Session	Julian Day
		72		050

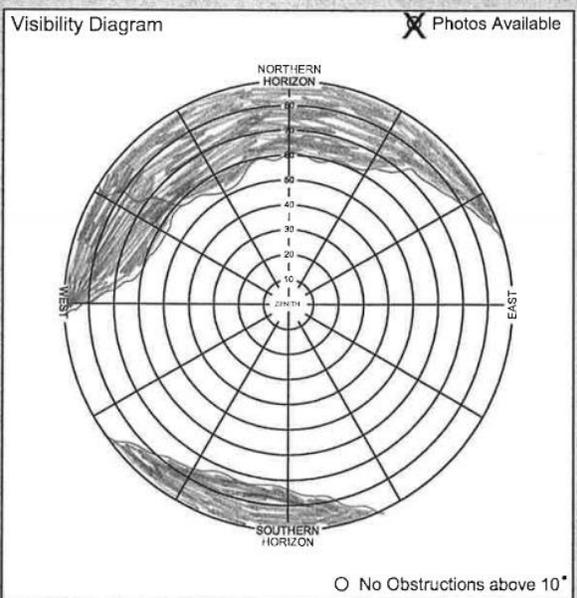


Latitude N 31° 32' 37.49"	Longitude W 91° 07' 58.22"
Antenna Ht. (before; include add. offsets) 2.00 m	E-Height 301.912 sft
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

Location Description / Comments

X



Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type PAINT STAKE	



**72, 3SE, 19FEB2016**



**72, 3SW, 19FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

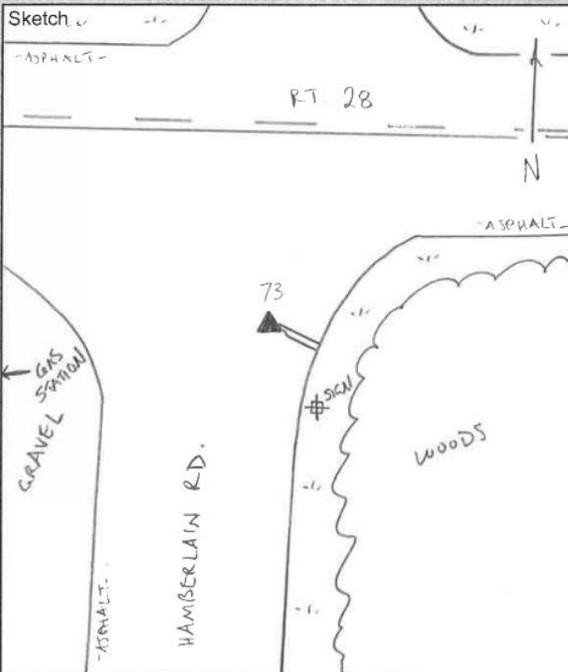


Station Designation <b>73</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268-02202016-REL Job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office- <b>937 . 531 . 1211</b> Cell- <b>937 . 684 . 0558</b>	

Start Time : : 9 : 29 local	Stop Time : : 9 : 39 local	Calendar Date <b>02/20/2016</b>
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID <b>73</b>	Session	Julian Day <b>051</b>



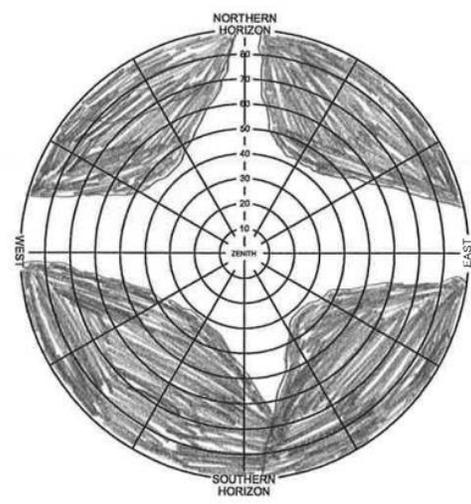
Latitude <b>N 31 ° 39 ' 50.43 "</b>	Longitude <b>W 90 ° 57 ' 49.78 "</b>
Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>394.651 sft</b>

Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments  
**X**

Visibility Diagram  Photos Available



Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINT STRIPE</b>	

No Obstructions above 10'



**73, 3E, 20FEB2016**



**73, 3S, 20FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

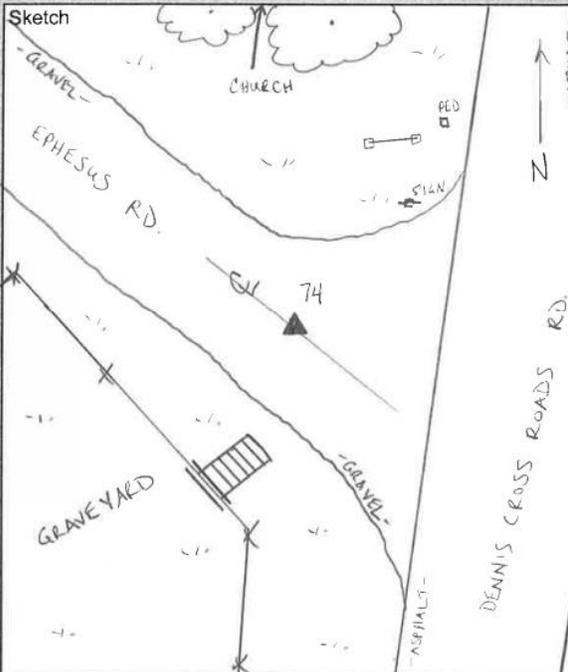


Station Designation <b>74</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02202016_ZRL Job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : : 16 : 04 local	Stop Time : : : 16 : 09 local	Calendar Date <b>02 / 20 / 2016</b>
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVOID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID <b>74</b>	Session	Julian Day <b>051</b>

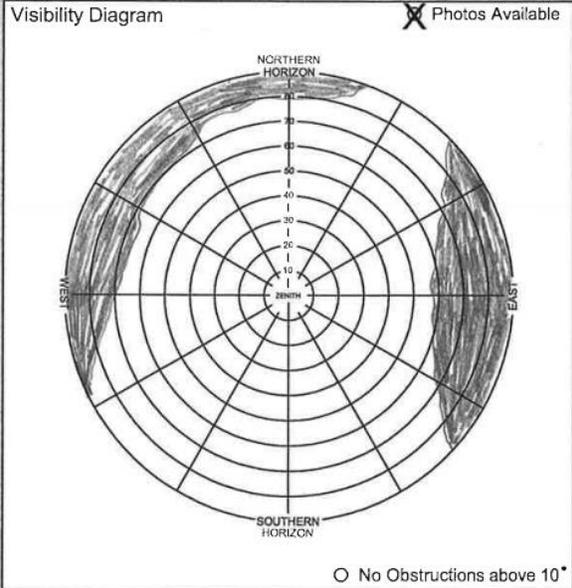


Latitude <b>N 31 ° 43 ' 51.58 "</b>	Longitude <b>W 90 ° 56 ' 42.70 "</b>
Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>218.272 584</b>
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

Location Description / Comments

X



Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>CL GRAVEL RD.</b>	



**74, 3NW, 20FEB2016**



**74, 3SW, 20FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>75</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268-02212016_ZRL_job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : 16 : 33 local	Stop Time : 16 : 39 local	Calendar Date 02/21/2016
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID	Sta. SSN	Sta. ID <b>75</b>	Session	Julian Day <b>052</b>
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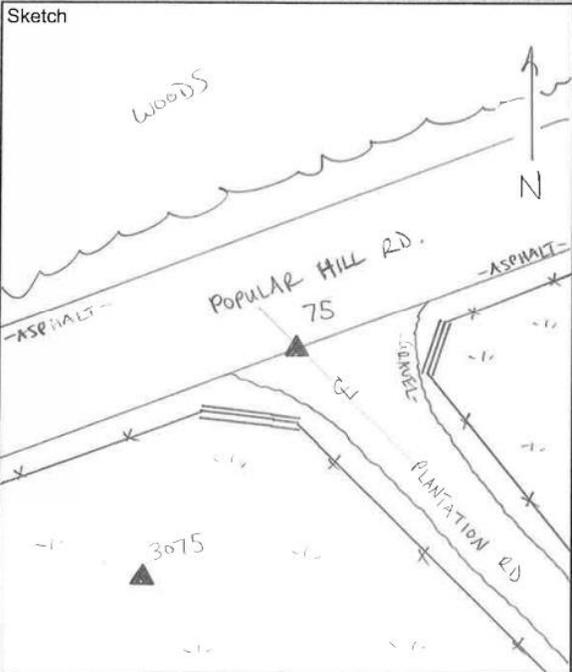
Latitude <b>N 31 ° 47 ' 18.60 "</b>	Longitude <b>W 91 ° 05 ' 29.21 "</b>
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Antenna Ht. (before, include add. offsets) <b>2.00 m</b>	E-Height <b>72.635 sft</b>
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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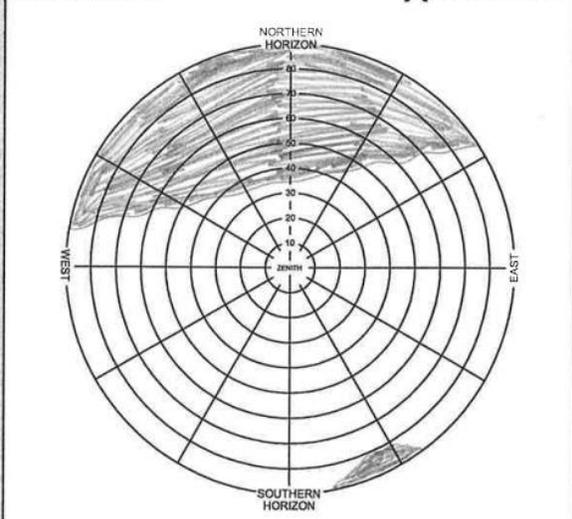
Tripod Type  
 Fixed-Ht.  Slip-leg  Fixed mount  Bi-pod

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments

Visibility Diagram  Photos Available



Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>CL GRAVEL RD</b>	



**75, 3NE, 21FEB2016**



**75, 3SE, 21FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

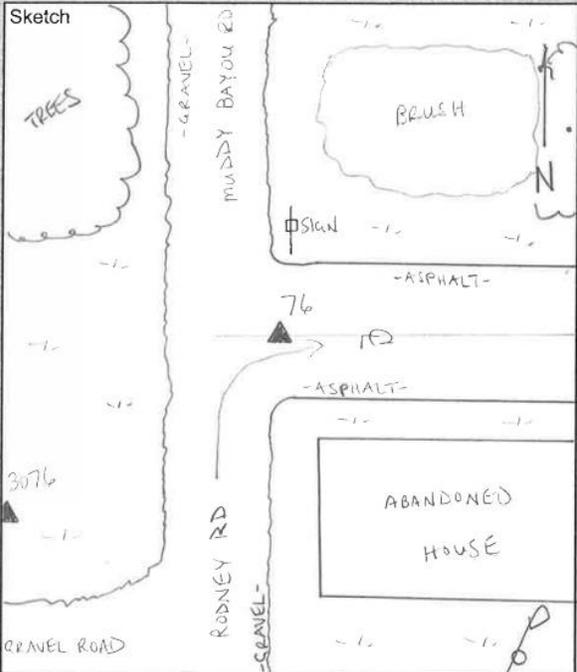


Station Designation <b>76</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02212016_ZRL job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone	
Office - <b>937 . 531 . 1211</b>	Cell - <b>937 . 684 . 0558</b>

Start Time : : : <b>17 : 15</b> local	Stop Time : : : <b>17 : 20</b> local	Calendar Date <b>02/21/2016</b>
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Station Classification				
<input type="checkbox"/> FBN	<input type="checkbox"/> CBN	<input type="checkbox"/> BM	<input type="checkbox"/> PACS	<input type="checkbox"/> SACS
<input type="checkbox"/> TSM	<input type="checkbox"/> EoR	<input type="checkbox"/> NAVAID	<input checked="" type="checkbox"/> Photo Control	<input type="checkbox"/> Other:
Station PID	Sta. SSN	Sta. ID <b>76</b>	Session	Julian Day <b>052</b>



Latitude <b>N 31 ° 51 '41.52 "</b>	Longitude <b>W 91 ° 11 '59.38 "</b>
Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>-3.616 sf4</b>

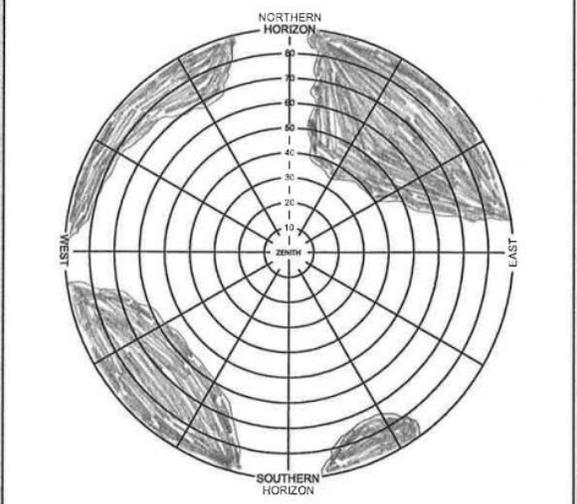
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments

X

Visibility Diagram  Photos Available



No Obstructions above 10'

Setting Type • <b>MARKED POINT</b>	Monument Size <b>N/A</b>
<input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>CL ASPHALT RD</b>	



**76, 3S, 21FEB2016**

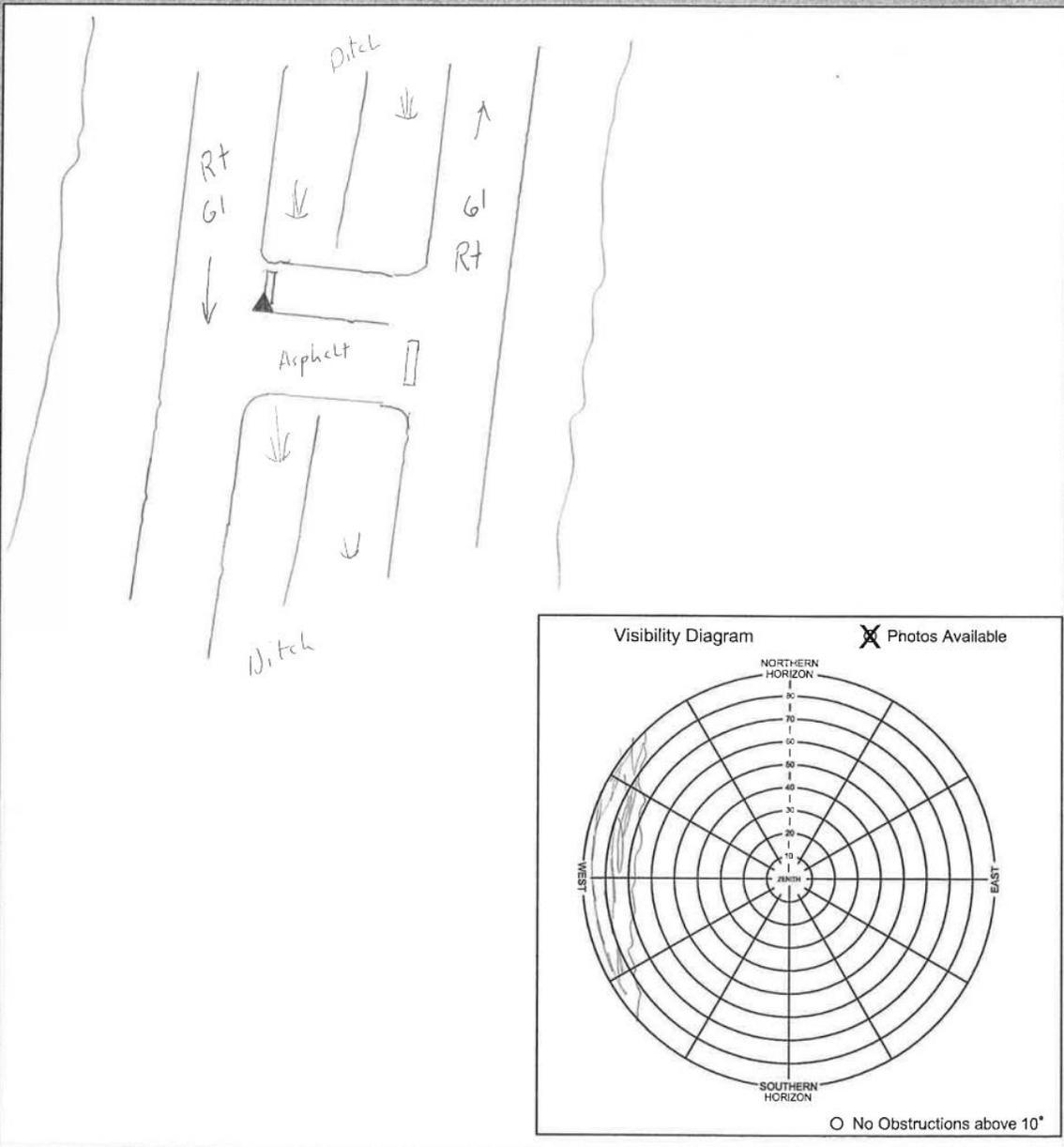


**76, 3W, 21FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <b>77</b>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 32° 03' 46.68"</b>	Longitude <b>W 90° 55' 23.33 "</b>	Calendar Date <b>02/21/2016</b>
		Observer Initials <b>BW</b>





**77, 3E, 21FEB2016**



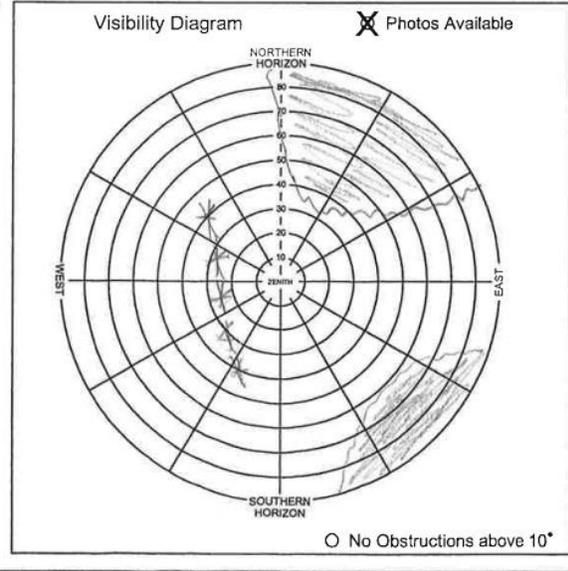
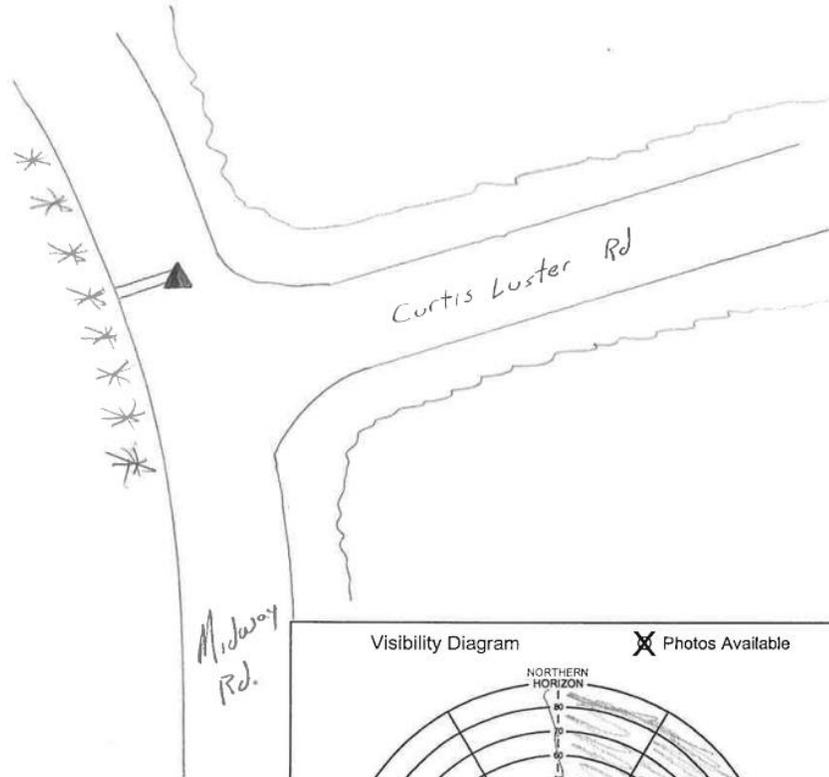
**77, 3N, 21FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <i>78</i>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 32° 04' 39.92"</b>	Longitude <b>W 90° 46' 10.27"</b>	Calendar Date <i>2/22/2016</i>
		Observer Initials <b>BW</b>

*Start 2:16  
END 3:50  
File 88280530*





**78, 3N, 22FEB2016**

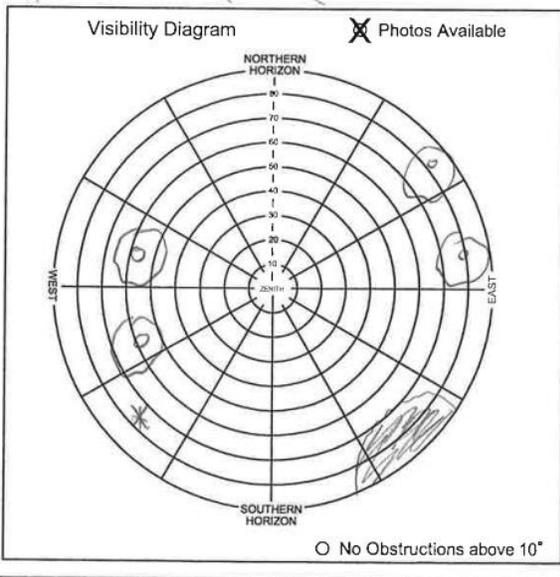
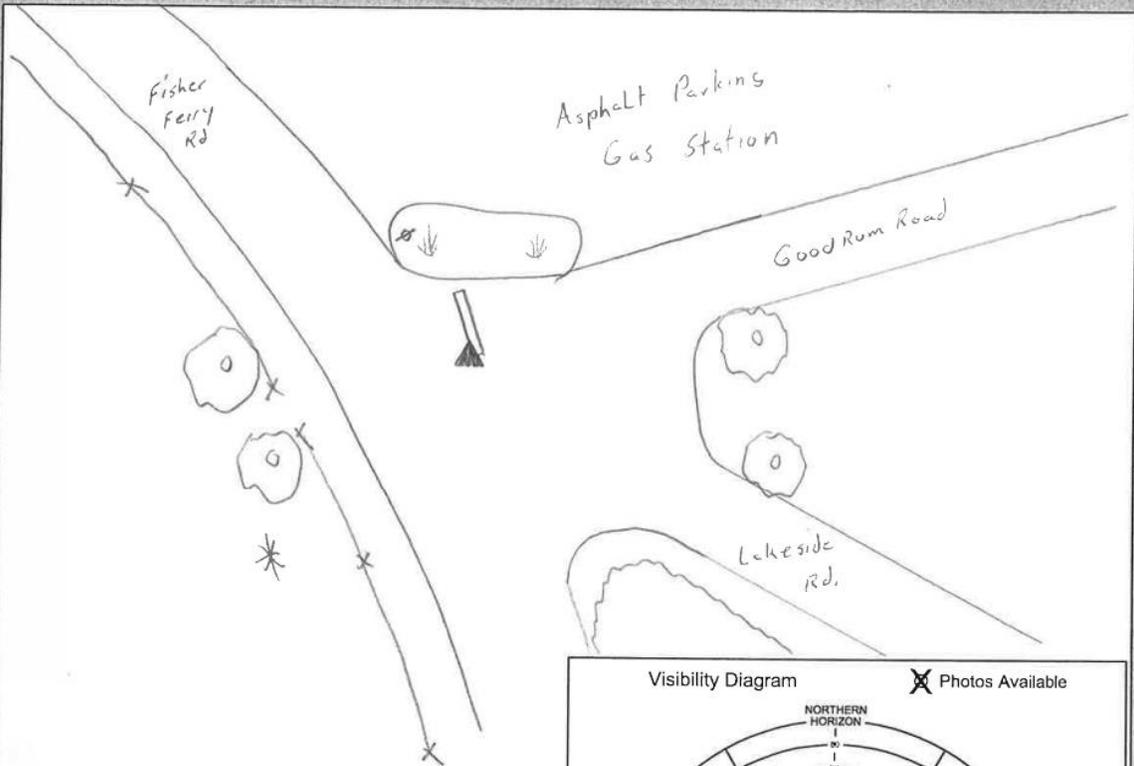


**78, 3W, 22FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <b>79</b>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>	
Latitude <b>N 32 ° 14 ' 47.43 "</b>	Longitude <b>W 90 ° 50 ' 57.31 "</b>	Calendar Date <b>2 / 24 / 2016</b>	Observer Initials <b>BW</b>





79, 3E, 24FEB2016

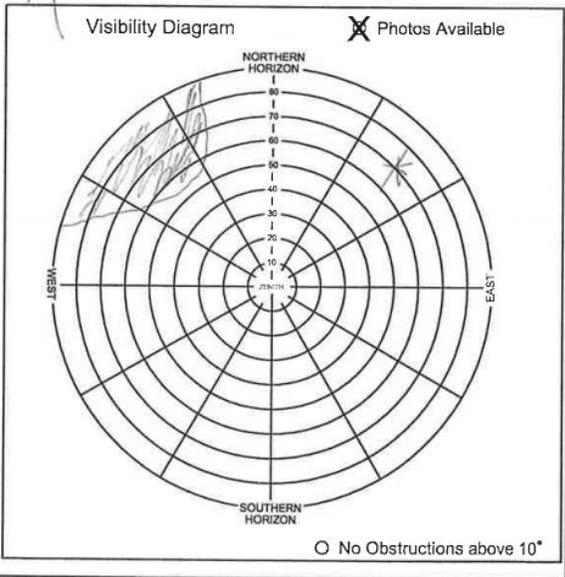
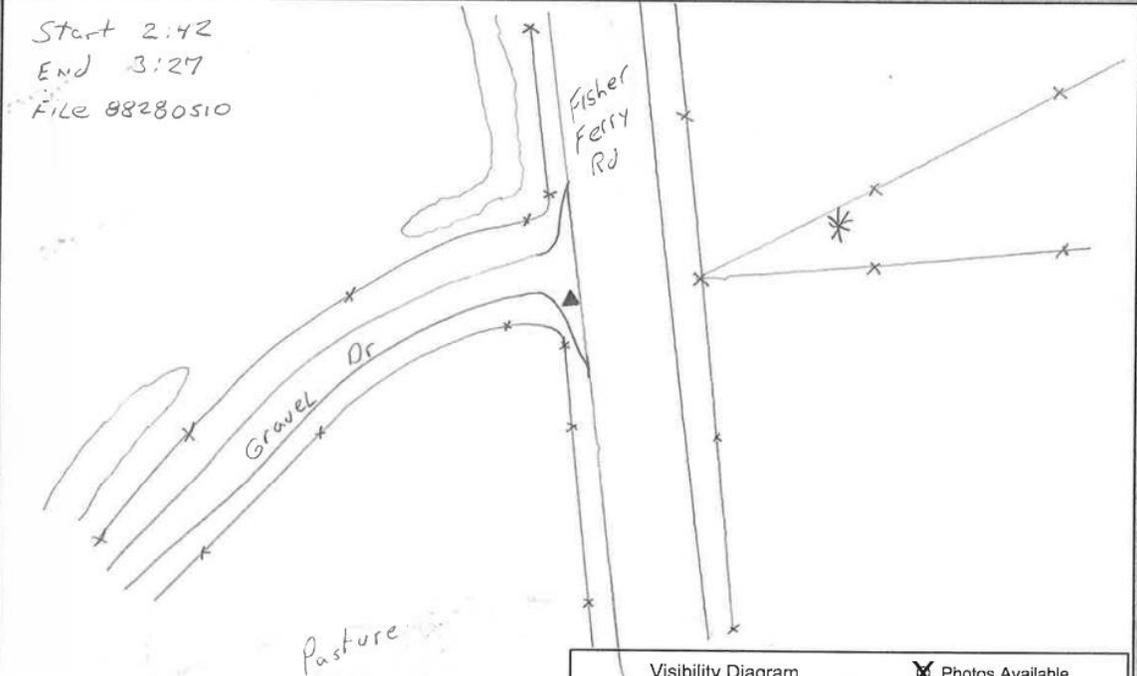


79, 3N, 24FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # 80	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>	
Latitude <b>N 32 ° 11 ' 40.51 "</b>	Longitude <b>W 90 ° 48 ' 52.48 "</b>	Calendar Date 2 / 20 / 2016	Observer Initials <b>BW</b>





**80, 3N, 20FEB2016**

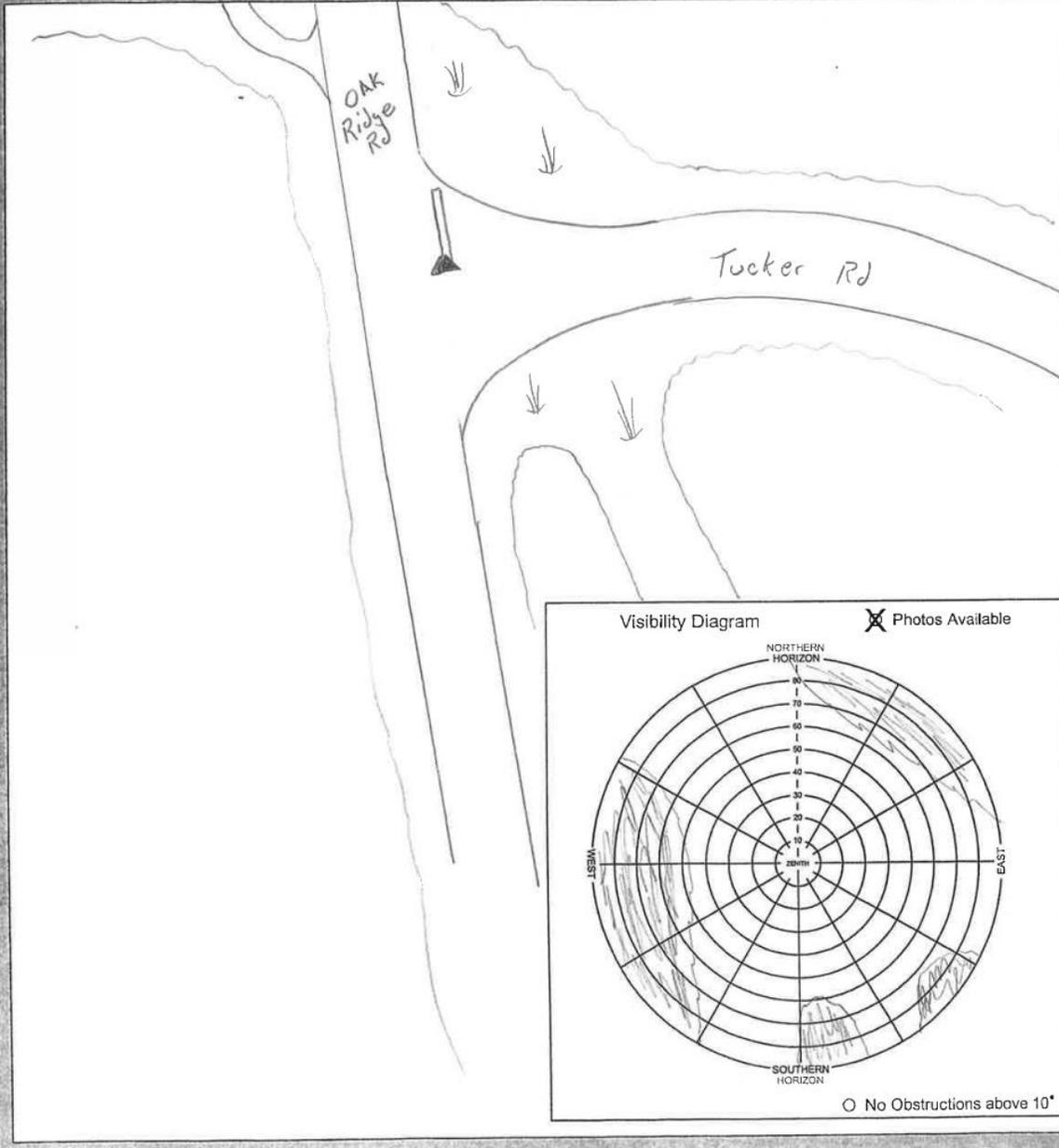


**80, 3W, 20FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LIDAR Control point # <i>81</i>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 32° 24 ' 25.01 "</b>	Longitude <b>W 90° 46 ' 54.64 "</b>	Calendar Date <b>2 / 24 / 2016</b>
		Observer Initials <b>BW</b>





81, 3E, 24FEB2016

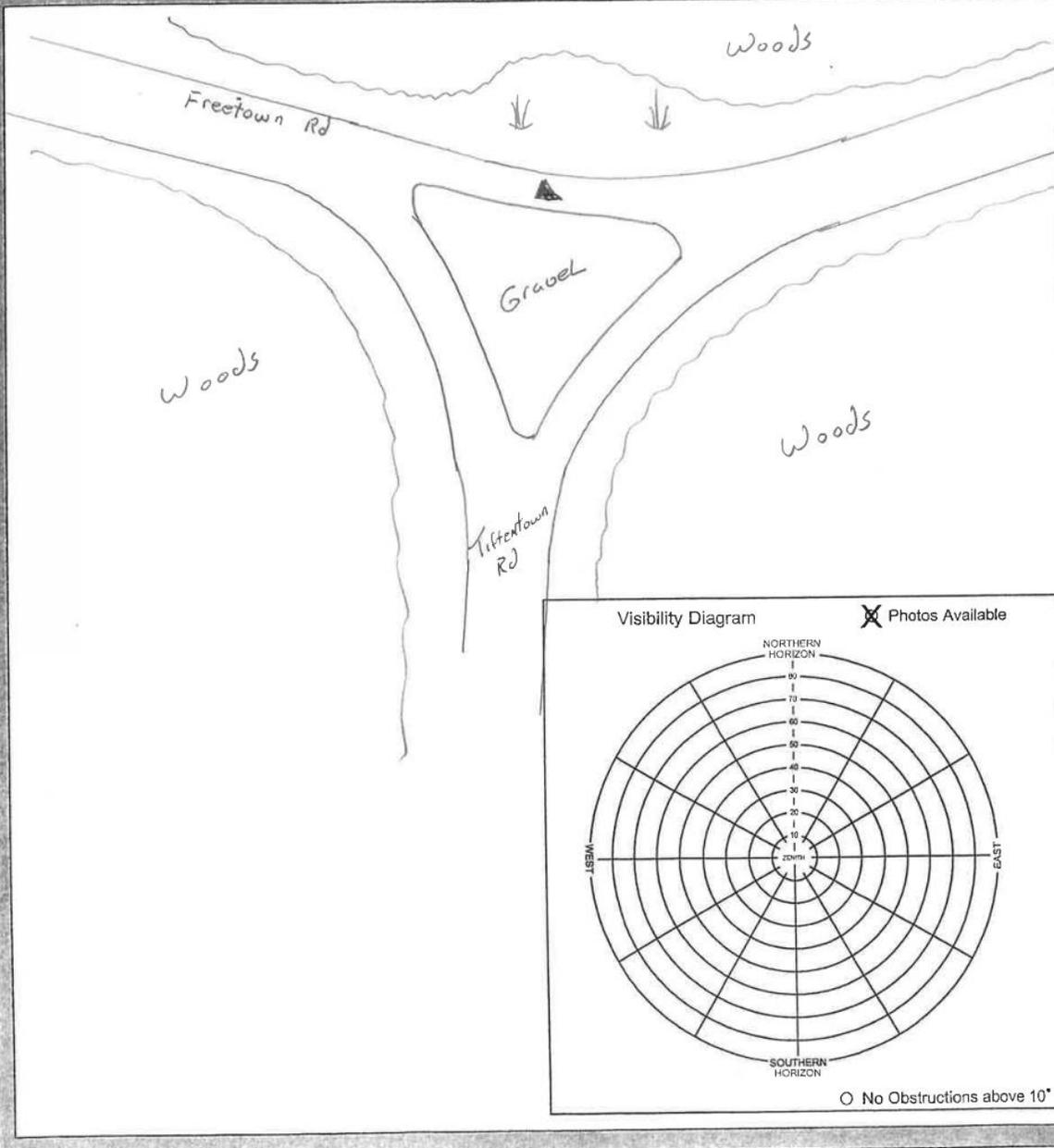


81, 3N, 24FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LIDAR Control point # <i>82</i>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>	
Latitude <b>N 32° 23 ' 53.91 "</b>	Longitude <b>W 90 ° 41 ' 41.55 "</b>	Calendar Date <i>2 / 24 / 2016</i>	Observer Initials <b>BW</b>





**82, 3E, 24FEB2016**

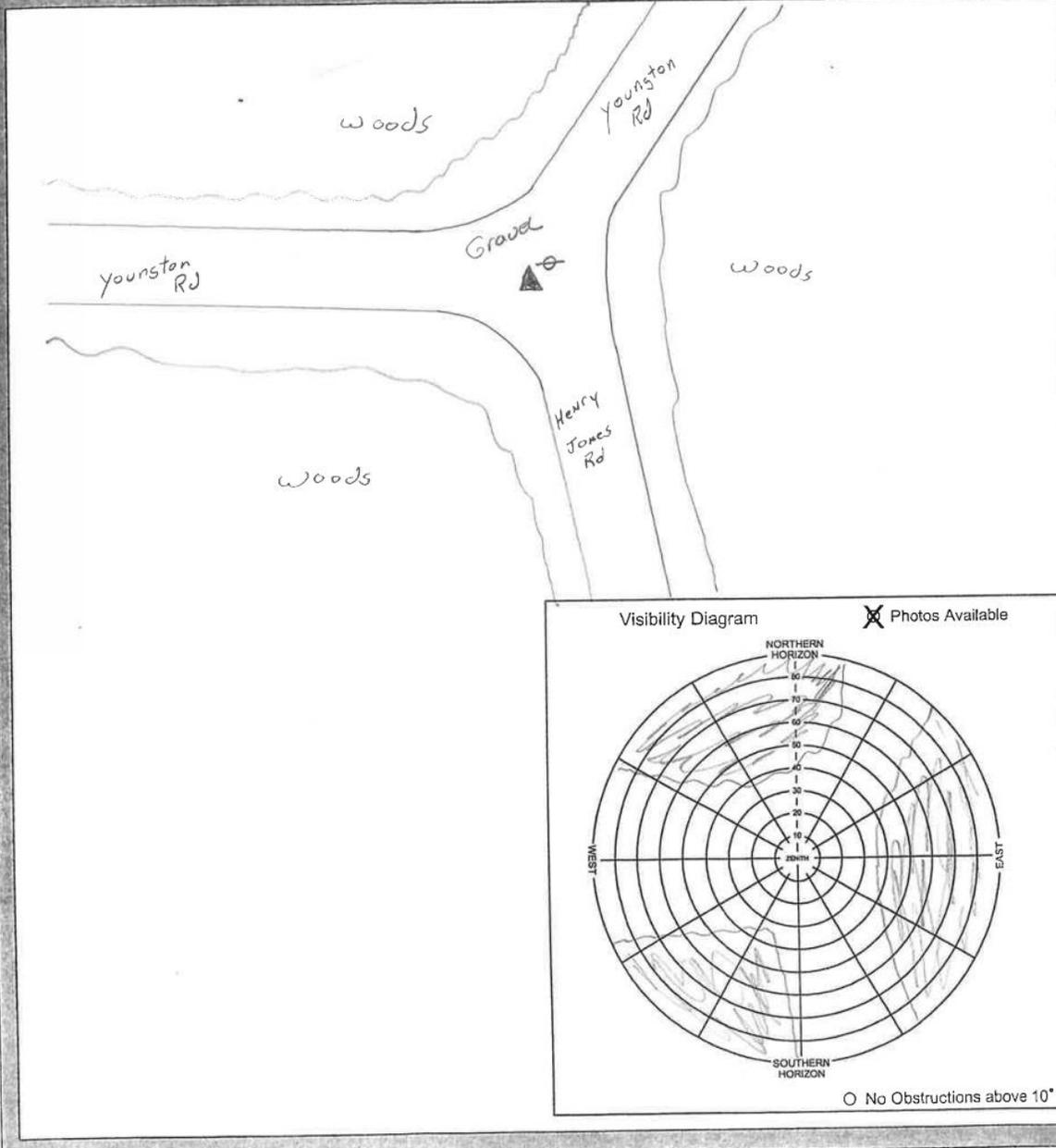


**82, 3N, 24FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LIDAR Control point # 83	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>	
Latitude N 32° 26' 51.08"	Longitude W 90° 37' 13.76"	Calendar Date 2 / 24 / 2016	Observer Initials <b>BW</b>





**83, 3E, 24FEB2016**



**83, 3S, 24FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation 84	Airport LID & State <b>Mississippi</b>	Data File Name 76268-02242016-2PL.job	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeseemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time 16 : 22 local	Stop Time 16 : 29 local	Calendar Date 02/24/2016
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Station Classification				
<input type="checkbox"/> FBN	<input type="checkbox"/> CBN	<input type="checkbox"/> BM	<input type="checkbox"/> OPACS	<input type="checkbox"/> OSACS
<input type="checkbox"/> OTSM	<input type="checkbox"/> EoR	<input type="checkbox"/> NAVAID	<input checked="" type="checkbox"/> Photo Control	

Station PID	Sta. SSN	Sta. ID 84	Session	Julian Day 055
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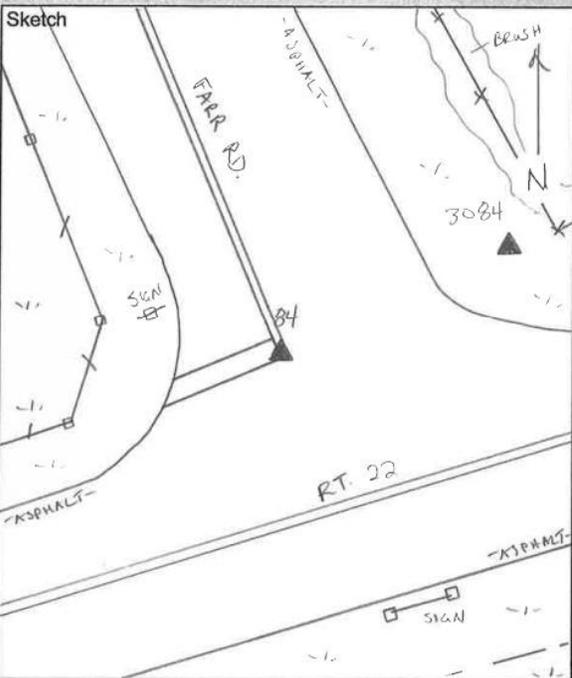
Latitude N 32° 23' 36.05"	Longitude W 90° 31' 52.61"
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Antenna Ht. (before; include add. offsets) 2.00 m	E-Height 202.422 spt
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
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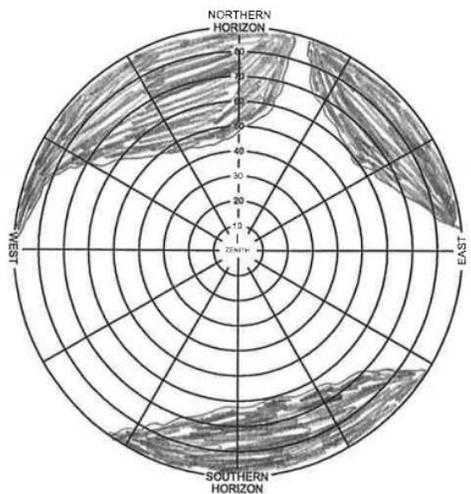
Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments

X

Visibility Diagram	<input checked="" type="checkbox"/> Photos Available
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○ No Obstructions above 10°

Setting Type • MARKED POINT	Monument Size N/A
<input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type PAINT STRIPE	



**84, 3SE, 24FEB2016**



**84, 3SW, 24FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

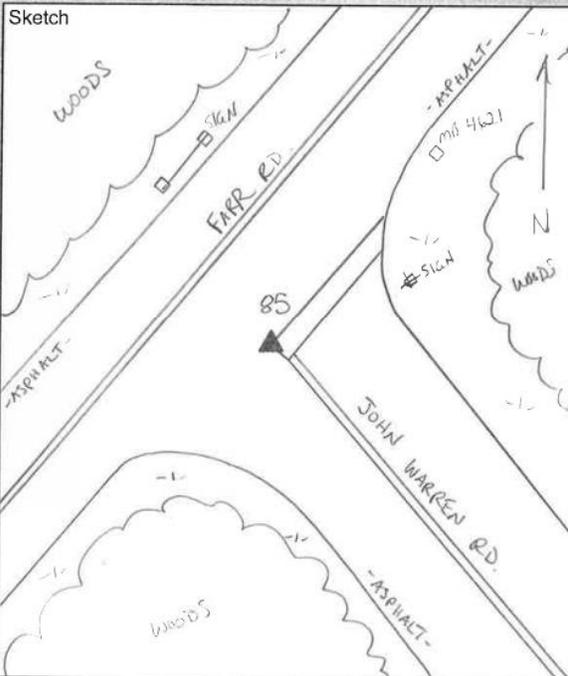


Station Designation <b>85</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268 - 02252016 - 262 Job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeseemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : <b>7 : 56</b> local	Stop Time : : <b>8 : 03</b> local	Calendar Date <b>02 / 25 / 2016</b>
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID <b>85</b>	Session	Julian Day <b>056</b>



Latitude <b>N 32 ° 27 ' 45.85 "</b>	Longitude <b>W 90 ° 31 ' 32.89 "</b>
Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height

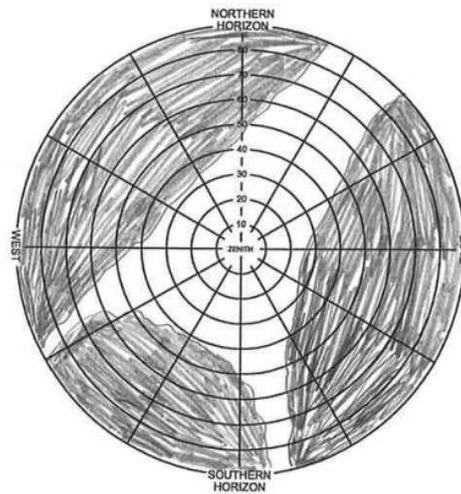
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments

X

Visibility Diagram  Photos Available



Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINT STRIPE</b>	



**85, 3NW, 25FEB2016**



**85, 3SW, 25FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

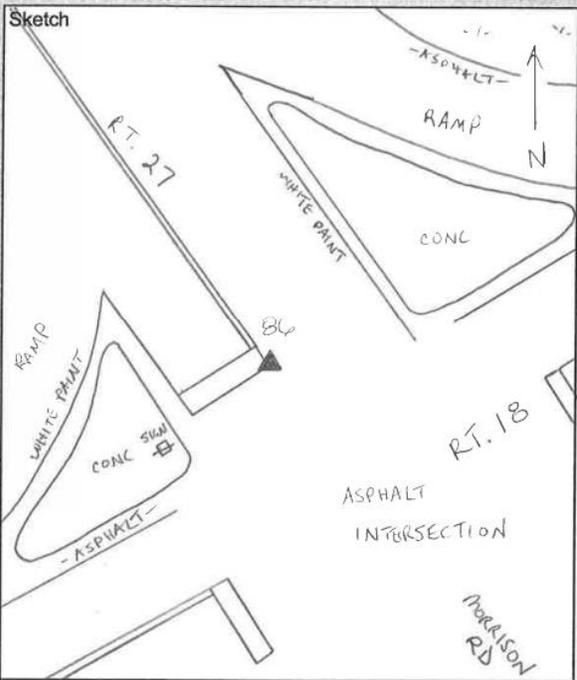


Station Designation <i>86</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>76268_02232016_ZRL.job</i>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : : <i>10 : 23</i> local	Stop Time : : : <i>10 : 34</i> local	Calendar Date <i>02/23/2016</i>
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID	Session	Julian Day
		<i>80</i>		<i>054</i>

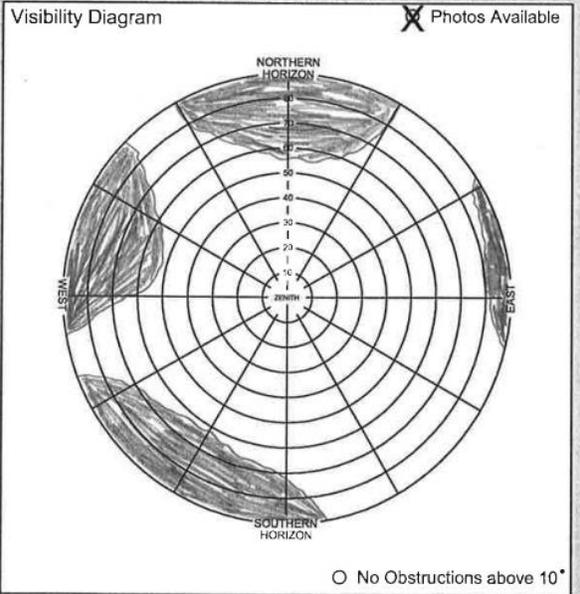


Latitude <b>N 32° 06' 42.16"</b>	Longitude <b>W 90° 36' 23.40"</b>
Antenna Ht. (before; include add. offsets) <i>2.00 m</i>	E-Height <i>223 482.5ft</i>
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
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Location Description / Comments

*X*



Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <i>N/A</i>
Stamping <i>N/A</i>	Inscription (i.e. NGS, Woolpert, etc.) <i>N/A</i>
Photo Ctrl Target Type <i>PAINT STRIPE</i>	



86, 3NE, 23FEB2016



86, 3SE, 23FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

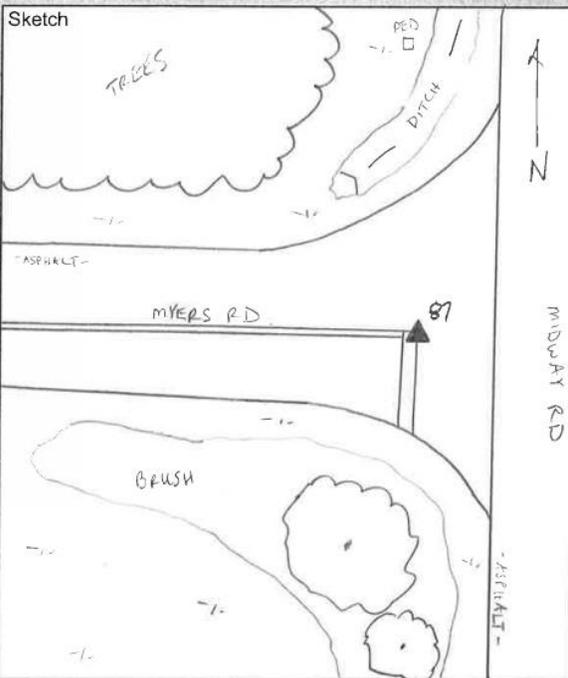


Station Designation <b>87</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02222016_ZRL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : 16 : 49 local	Stop Time : 16 : 55 local	Calendar Date 02 / 22 / 2016
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID	Session	Julian Day
		87	-	053



Latitude <b>N 32° 09' 59.23"</b>	Longitude <b>W 90° 22' 36.28"</b>
Antenna Ht. (before, include add. offsets) <b>2.00 m</b>	E-Height <b>306.472 sft</b>

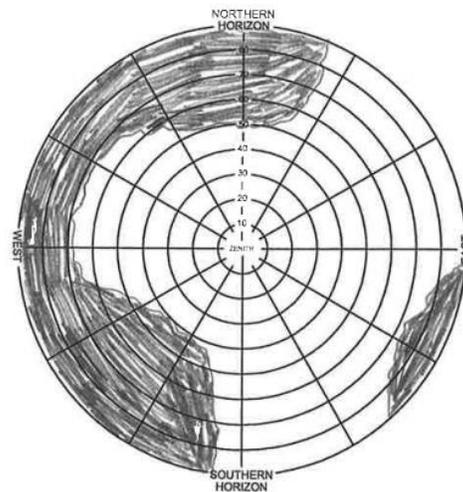
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

Location Description / Comments

X

Visibility Diagram  Photos Available



Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINT STRIPE</b>	

No Obstructions above 10'



87, 3E, 22FEB2016



87, 3S, 22FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

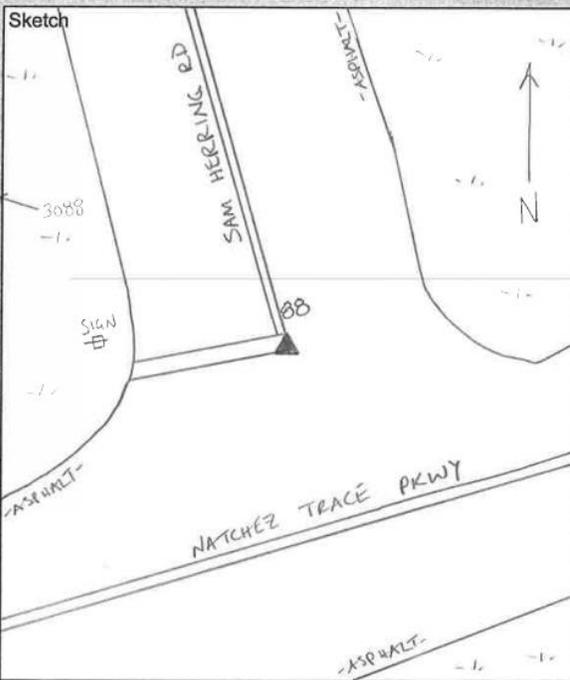


Station Designation <b>88</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268-02232016_ZEL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : : <b>15 : 17</b> local	Stop Time : : : <b>15 : 24</b> local	Calendar Date <b>09 / 23 / 2016</b>
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID <b>88</b>	Session	Julian Day <b>054</b>



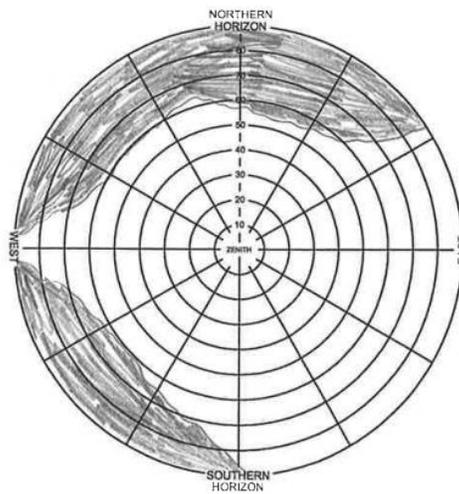
Latitude <b>N 32 ° 17 ' 34.64 "</b>	Longitude <b>W 90 ° 24 ' 22.77 "</b>
Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>187.545 sft</b>
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

Location Description / Comments

X

Visibility Diagram  Photos Available



○ No Obstructions above 10'

Setting Type • <b>MARKED POINT</b>	Monument Size <b>N/A</b>
<input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINT STRIPE</b>	



**88, 3SE, 23FEB2016**



**88, 3SW, 23FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

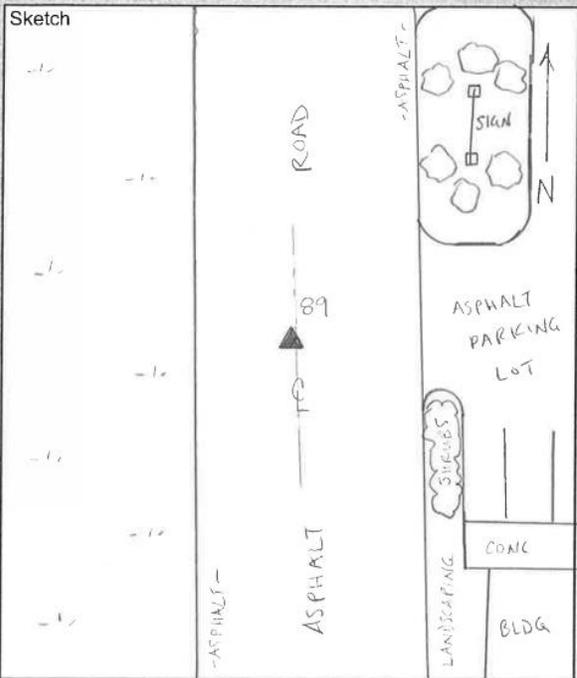


Station Designation <b>89</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02232016_2RL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : : <b>7 : 39</b> local	Stop Time : : : <b>7 : 46</b> local	Calendar Date <b>02 / 23 / 2016</b>
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> OPACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID —	Sta. SSN —	Sta. ID <b>89</b>	Session —	Julian Day <b>054</b>



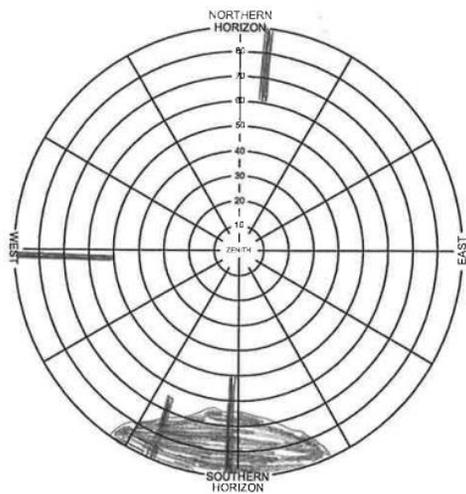
Latitude <b>N 32 ° 16 ' 21.55 "</b>	Longitude <b>W 90 ° 17 ' 06.37 "</b>
Antenna Ht. (before; include add. offsets) <b>2.00m</b>	E-Height <b>359.463 sft</b>
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

Location Description / Comments

X

Visibility Diagram  Photos Available



No Obstructions above 10'

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>CL ASPHALT RD</b>	



89, 3S, 23FEB2016



89, 3W, 23FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>90</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02242016_ZRL.job</b>	<input checked="" type="checkbox"/> RTK File
----------------------------------	---	---	--

Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : 15 : 27 local	Stop Time : 15 : 34 local	Calendar Date <b>02/24/2016</b>
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Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID	Sta. SSN	Sta. ID <b>90</b>	Session	Julian Day <b>055</b>
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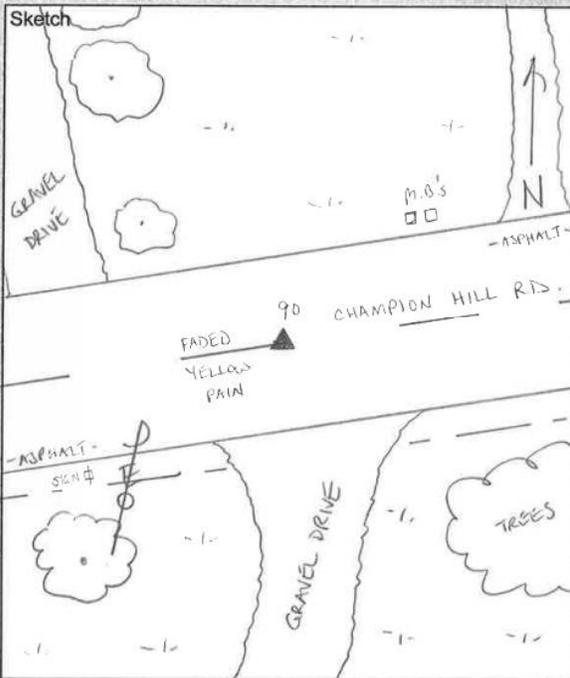
Latitude <b>N 32 ° 20 ' 24.14 "</b>	Longitude <b>W 90 ° 32 ' 19.55 "</b>
--	---

Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>139.986 sft</b>
---	--------------------------------

Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	---

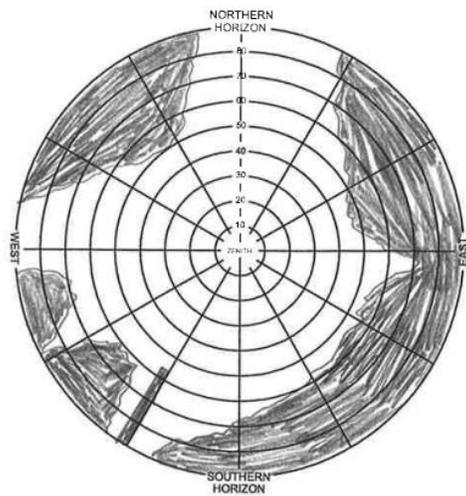
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--



Location Description / Comments  
**X**

Visibility Diagram  Photos Available



No Obstructions above 10'

Setting Type • <b>MARKED POINT</b>	Monument Size <b>N/A</b>
<input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINT STRIPE</b>	



**90, 3E, 24FEB2016**



**90, 3S, 24FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

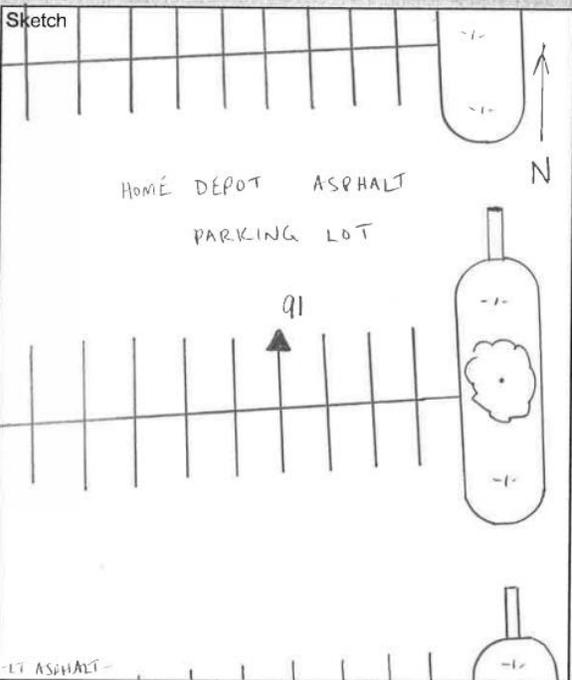


Station Designation <b>91</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02242016_ZEL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeseemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : : <b>8 : 53</b> local	Stop Time : : : <b>9 : 01</b> local	Calendar Date <b>02/24/2016</b>
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID ---	Sta. SSN ---	Sta. ID <b>91</b>	Session ---	Julian Day <b>055</b>

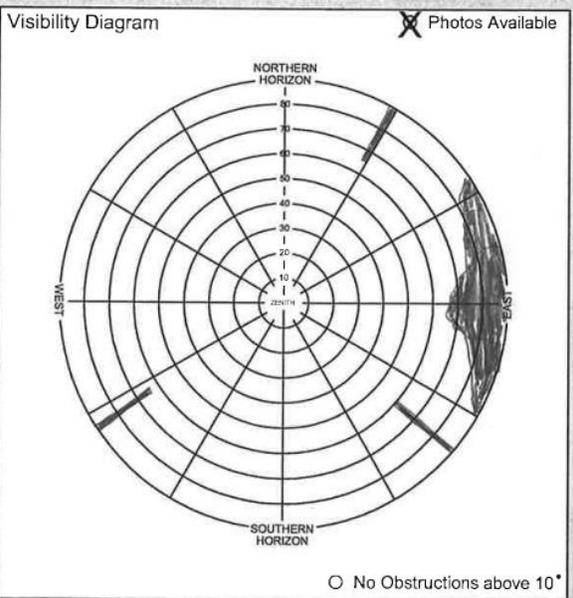


Latitude <b>N 32° 23' 44.49"</b>	Longitude <b>W 90° 08' 49.36"</b>
Antenna Ht. (before, include add. offsets) <b>200m</b>	E-Height <b>222.177 ft</b>
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

Location Description / Comments

X



Setting Type • <b>MARKED POINT</b>	Monument Size <b>N/A</b>
<input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>PAINT STRIPE</b>	



**91, 3E, 24FEB2016**



**91, 3S, 24FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation 92	Airport LID & State <b>Mississippi</b>	Data File Name 76268_02222016_ZRL Job	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
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Observer email <b>Zach.Leesemann@Woolpert.com</b>
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Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>
---

Start Time 10 : 22 local : utc	Stop Time 10 : 30 local : utc	Calendar Date 02/22/2016
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input checked="" type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVAID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:
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Station PID	Sta. SSN	Sta. ID 92	Session	Julian Day 053
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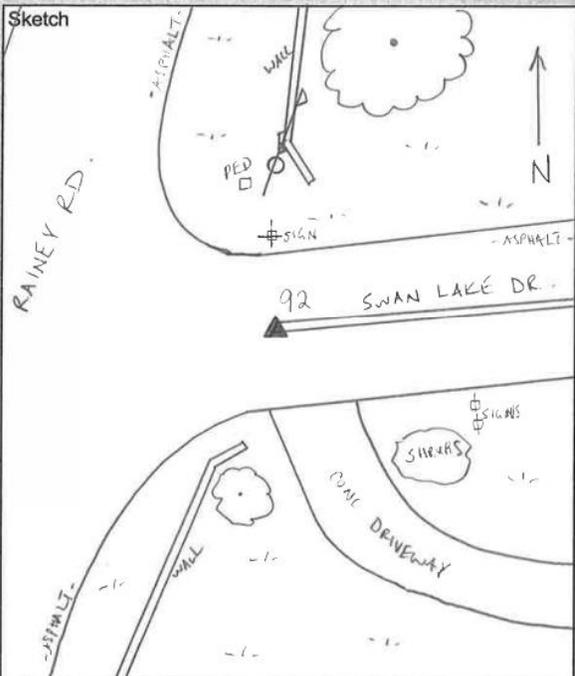
Latitude N 32 ° 13 '41.70 "	Longitude W 90 ° 15 '10.54 "
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Antenna HL. (before; include add. offsets) 2.00 m	E-Height 242.785 sf4
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Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	---

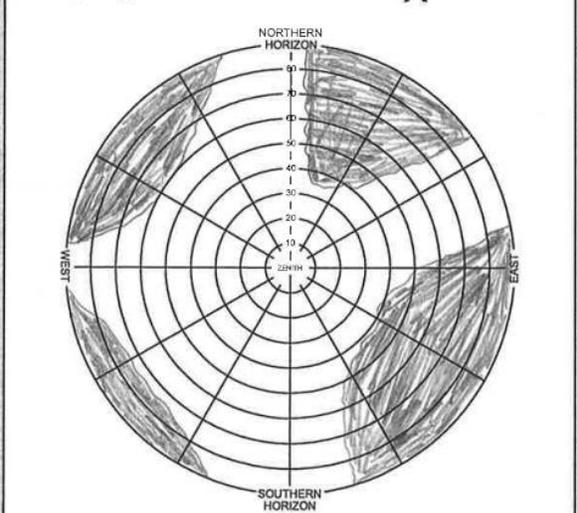
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--



Location Description / Comments  X
--

Visibility Diagram	<input checked="" type="checkbox"/> Photos Available
--------------------	--



Setting Type • MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size N/A
Stamping N/A	Inscription (i.e. NGS, Woolpt, etc.) N/A
Photo Ctrl Target Type PAINT STRIPE	

No Obstructions above 10°



92, 3E, 22FEB2016

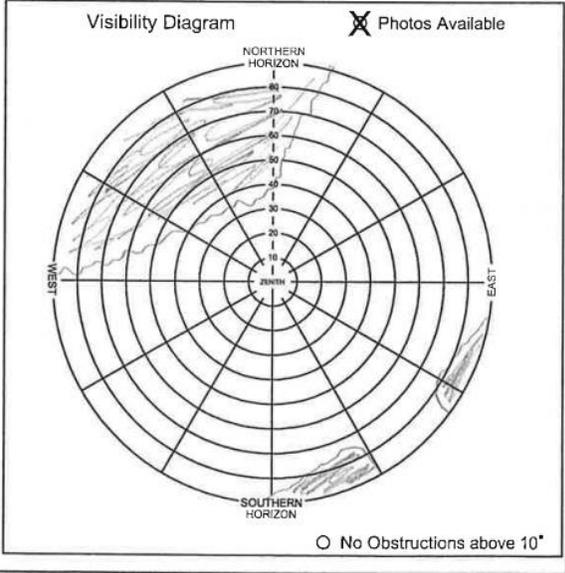
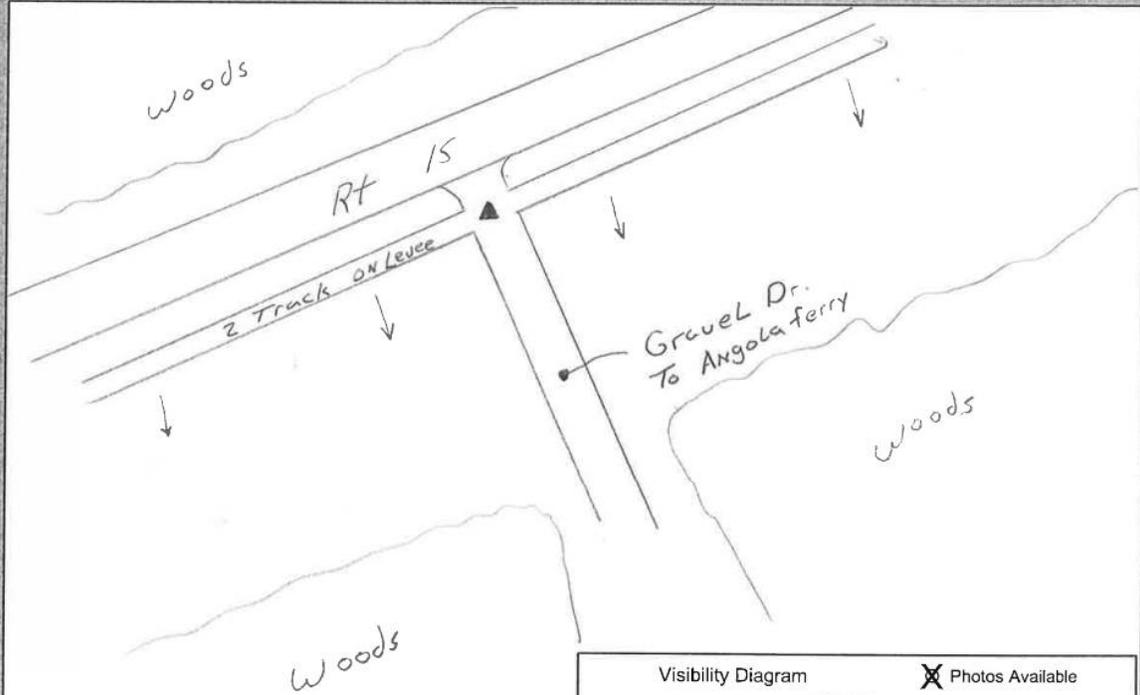


92, 3N, 22FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LIDAR Control point # <b>93</b>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 31 ° 00 ' 44.44 "</b>	Longitude <b>W 91 ° 38 ' 01.44 "</b>	Calendar Date <b>2/18/2016</b>
		Observer Initials <b>BW</b>





**93, 3E, 18FEB2016**

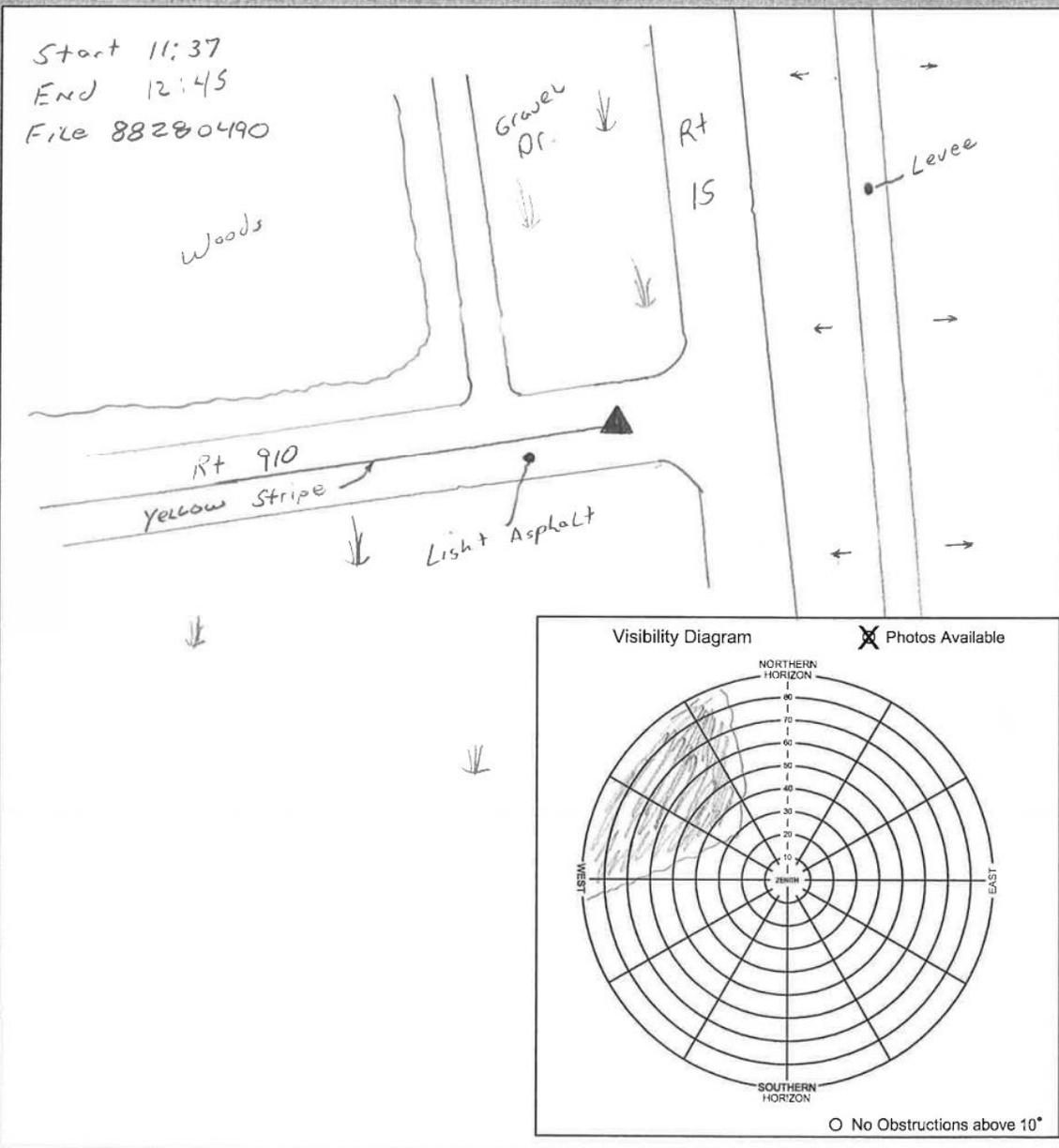


**93, 3N, 18FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LIDAR Control point # 94	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude N 31 ° 11 ' 20.47 "	Longitude W 91 ° 37 ' 53.70 "	Calendar Date 2 / 18 / 2016
		Observer Initials <b>BW</b>





**94, 3N, 18FEB2016**

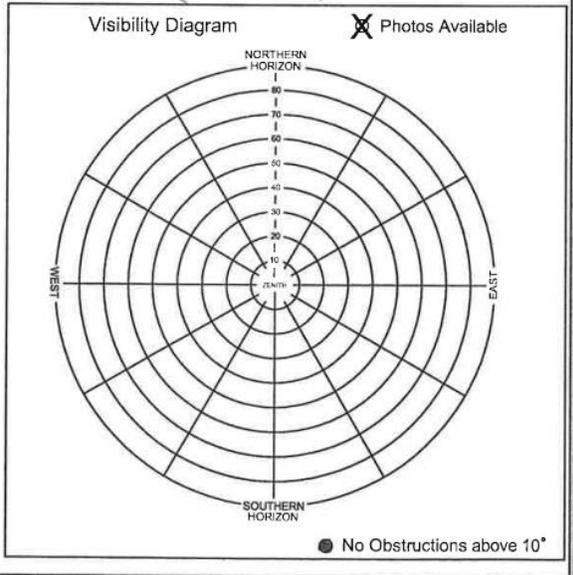
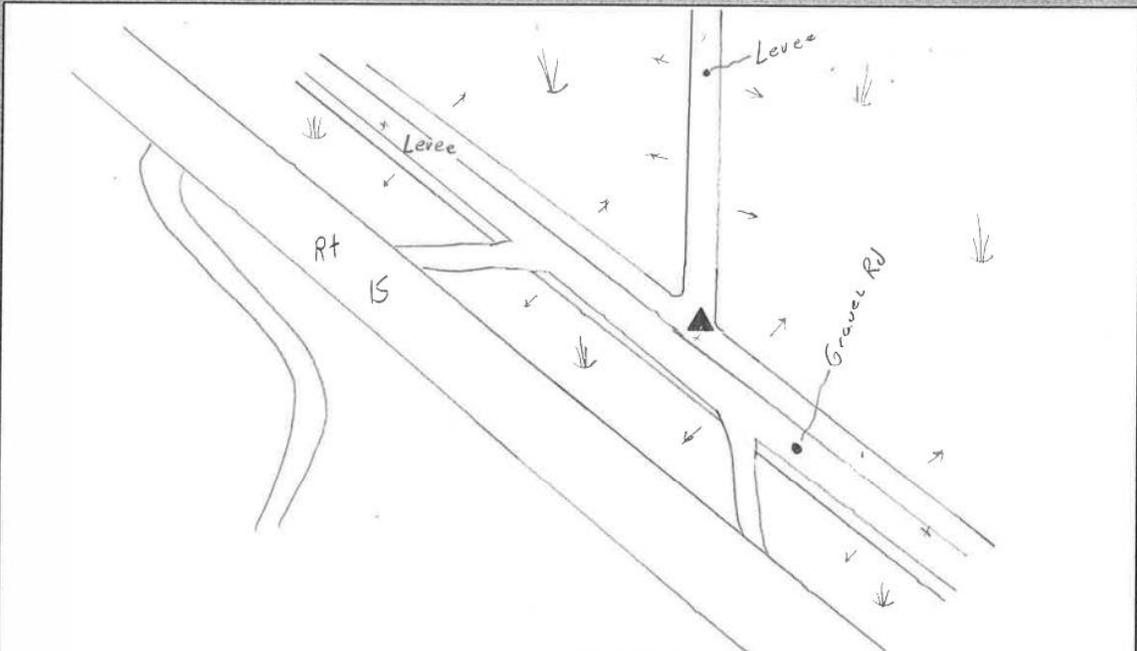


**94, 3W, 18FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <b>95</b>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 31 ° 13 ' 48.08 "</b>	Longitude <b>W 91 ° 38 ' 54.23 "</b>	Calendar Date <b>2 / 18 / 2016</b>
		Observer Initials <b>BW</b>





**95, 3E, 18FEB2016**

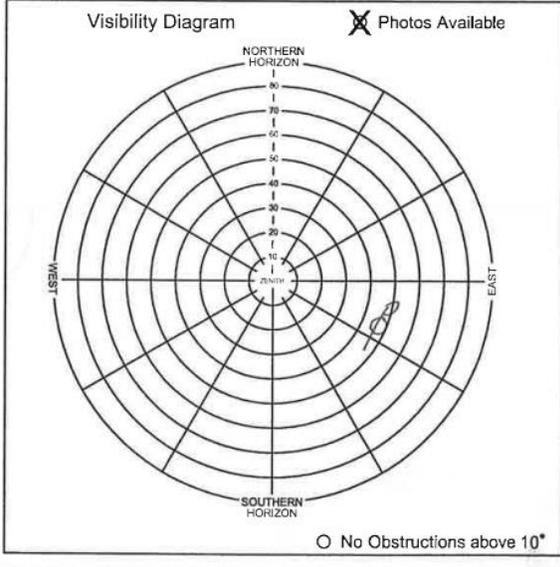
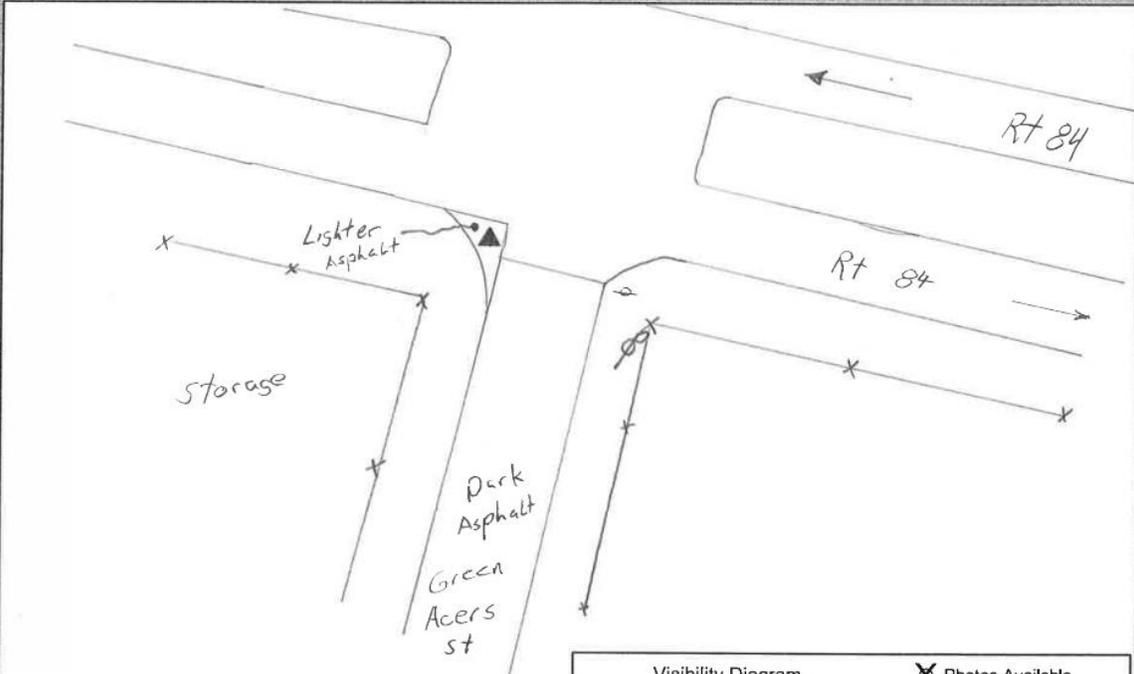


**95, 3N, 18FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LIDAR Control point # <b>96</b>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 31 ° 35 ' 57.11 "</b>	Longitude <b>W 91 ° 30 ' 46.90 "</b>	Calendar Date <b>2 / 18 / 2016</b>
		Observer Initials <b>BW</b>





**96, 3N, 18FEB2016**



**96, 3W, 18FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # 97	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude N 31 ° 03 ' 05.27 "	Longitude W 91 ° 34 ' 39.09 "	Calendar Date 2 / 18 / 2016
		Observer Initials <b>BW</b>

Woods

Gravel

Rt 15

Woods

Start 1:14  
End 2:33  
File 88280491

Visibility Diagram  Photos Available

NORTHERN HORIZON

80  
70  
60  
50  
40  
30  
20  
10  
0  
10  
20  
30  
40  
50  
60  
70  
80

WEST EAST

SOUTHERN HORIZON

○ No Obstructions above 10°



**97, 3E, 18FEB2016**



**97, 3N, 18FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



Station Designation <b>98</b>	Airport LID & State <b>Mississippi</b>	Data File Name <b>76268_02172016-8PL.job</b>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leeseemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leeseemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : <b>17 : 14</b> local	Stop Time : <b>17 : 21</b> local	Calendar Date <b>02 / 17 / 2016</b>
---	--	--

Station Classification  
 FBN  CBN  BM  PACS  SACS  TSM  
 EoR  NAVAID  Photo Control  Other:

Station PID -	Sta. SSN -	Sta. ID <b>98</b>	Session -	Julian Day <b>048</b>
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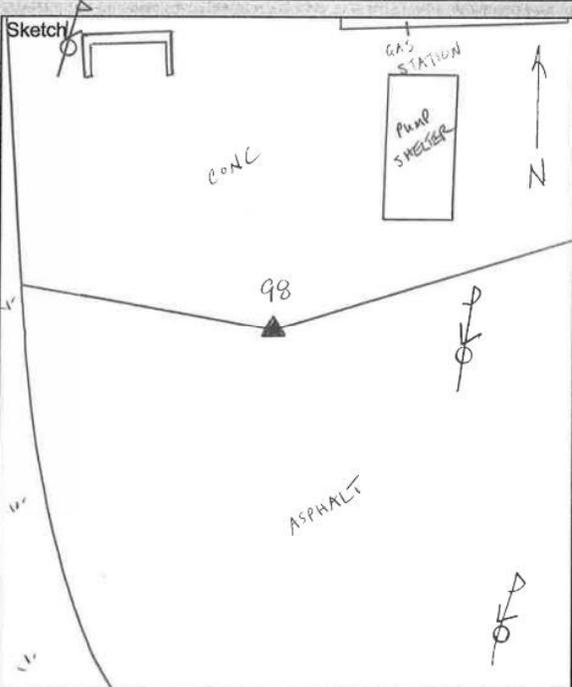
Latitude <b>N 30 ° 59 ' 34.00 "</b>	Longitude <b>W 91 ° 20 ' 53.34 "</b>
--	---

Antenna Ht. (before; include add. offsets) <b>2.00 m</b>	E-Height <b>233.831 sft</b>
---	--------------------------------

Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
--	---

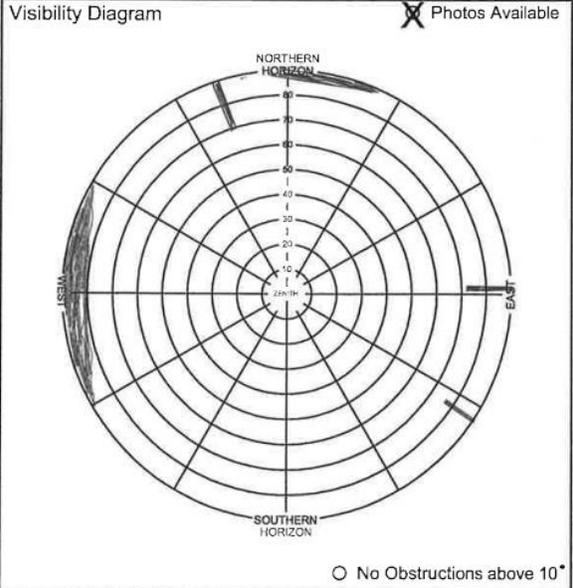
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod
--

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--



Location Description / Comments  
 \* SHOT TAKEN IN LOUISIANA  
 X

Setting Type <input checked="" type="checkbox"/> MARKED POINT <input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	Monument Size <b>N/A</b>
Stamping <b>N/A</b>	Inscription (i.e. NGS, Woolpt, etc.) <b>N/A</b>
Photo Ctrl Target Type <b>CORNER CONC.</b>	





98, 3E, 17FEB2016

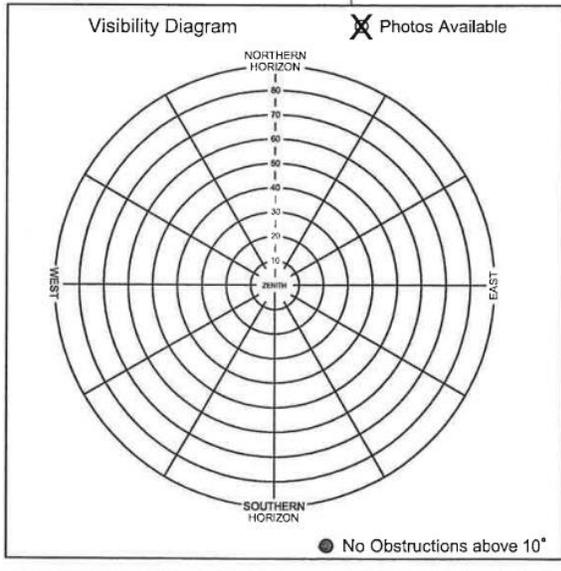
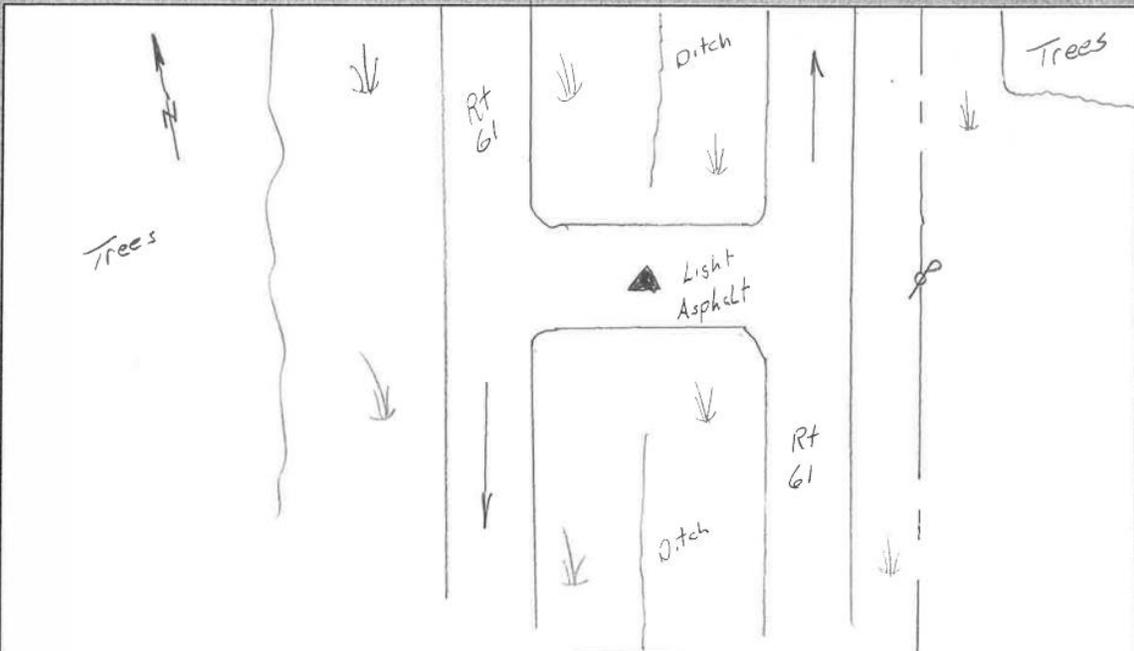


98, 3N, 17FEB2016

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LIDAR Control point # 99	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude N 31 ° 07 ' 47.09 "	Longitude W 91 ° 16 ' 28.15 "	Calendar Date 2 /17/2016
		Observer Initials <b>BW</b>





**99, 3S, 17FEB2016**

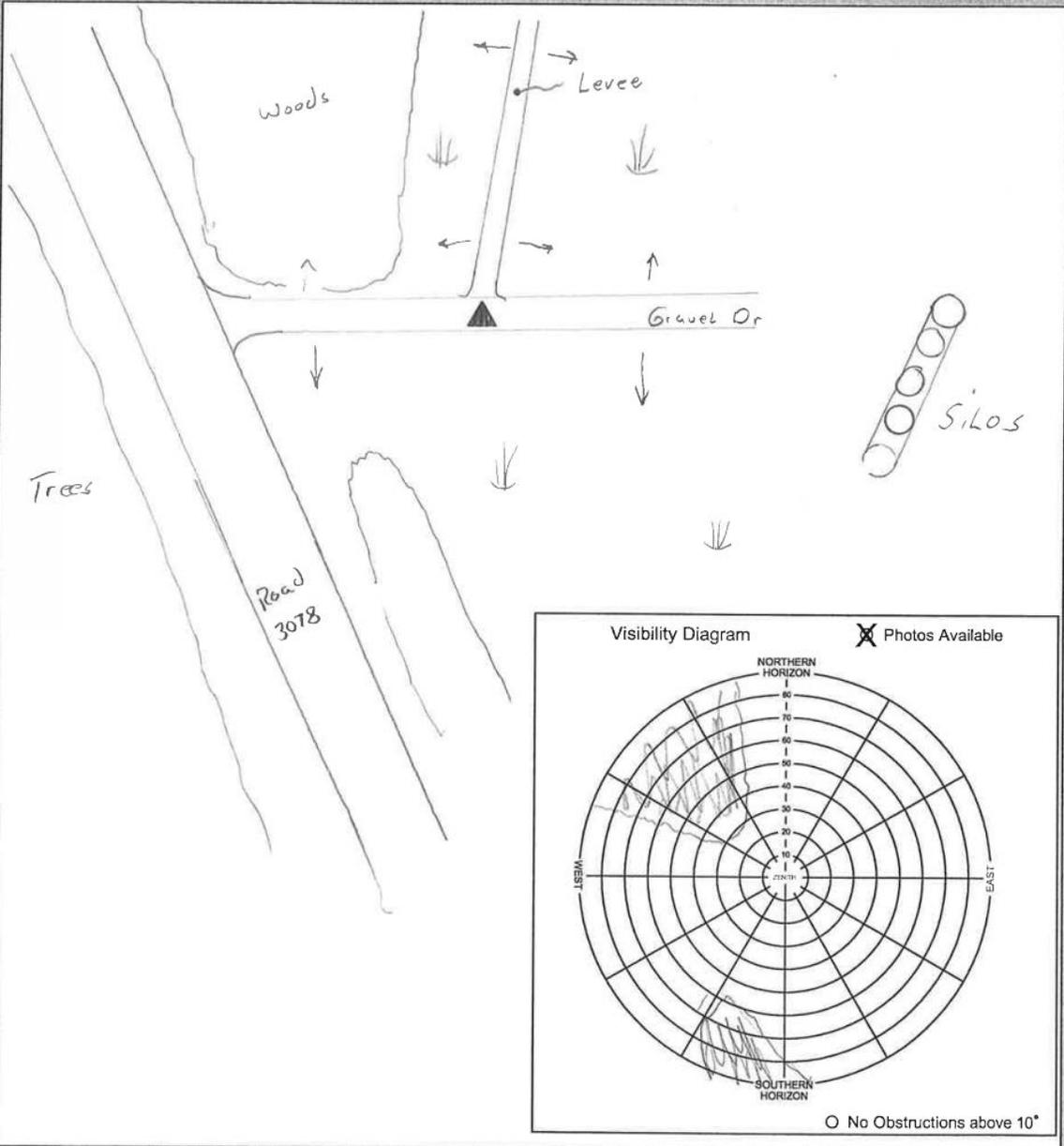


**99, 3W, 17FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <i>100</i>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 31° 56' 23.75"</b>	Longitude <b>W 91° 11' 58.58"</b>	Calendar Date <i>2/20/2016</i>
		Observer Initials <b>BW</b>





**100, 3E, 20FEB2016**

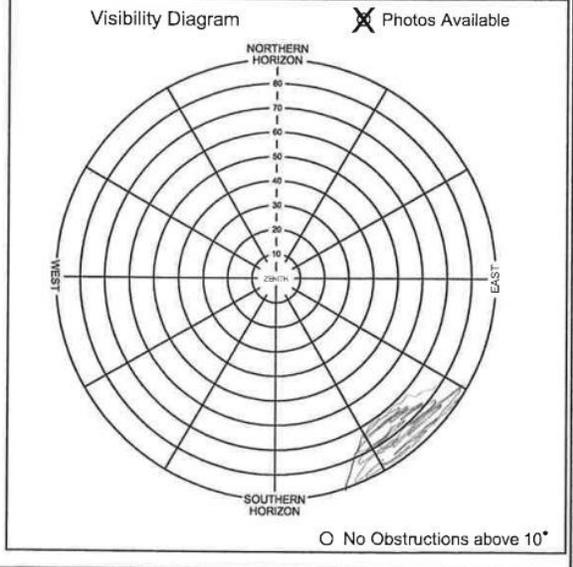
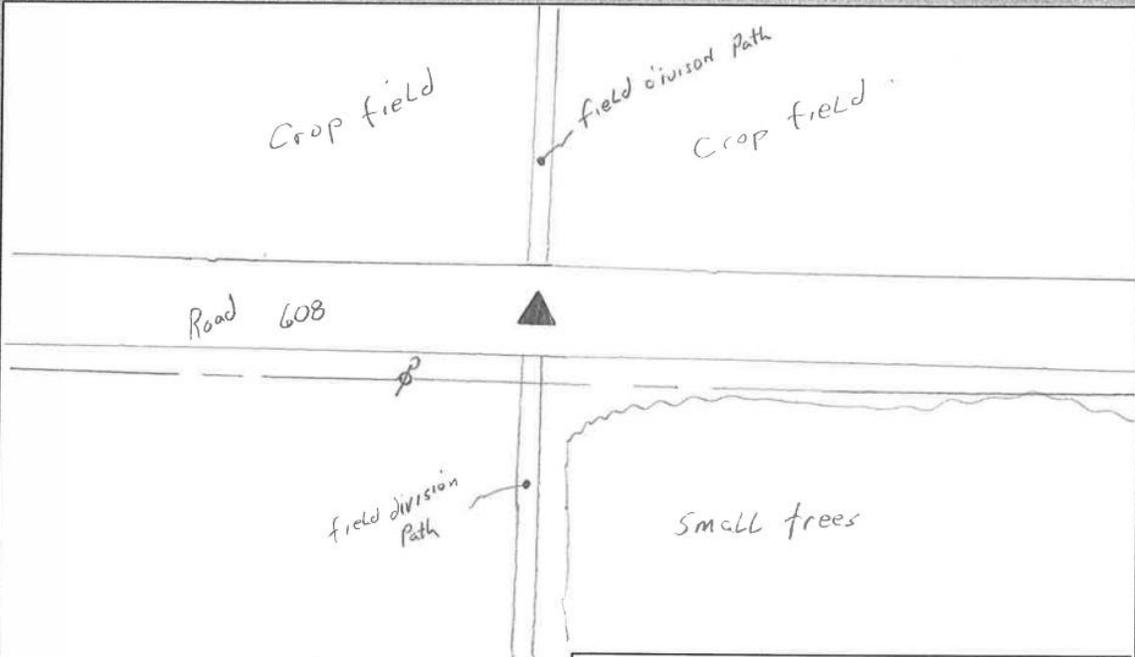


**100, 3S, 20FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs



LiDAR Control point # <i>101</i>	General location <b>Mississippi</b>	Ground Class <b>NVA - VVA</b>
Latitude <b>N 32° 07' 16.14"</b>	Longitude <b>W 91° 16' 53.17"</b>	Calendar Date <i>2/20/2016</i>
		Observer Initials <b>BW</b>





**101, 3E, 20FEB2016**



**101, 3S, 20FEB2016**

# 76268 Mississippi NRCS 2016 LiDAR GPS Control Logs

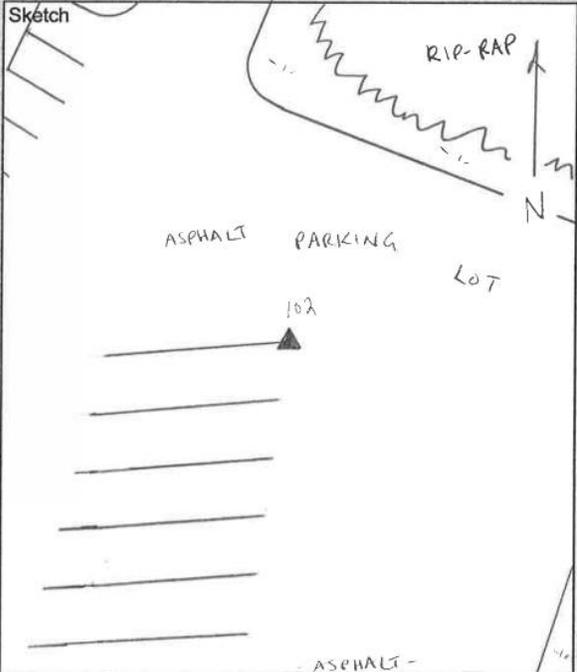


Station Designation <i>102</i>	Airport LID & State <b>Mississippi</b>	Data File Name <i>76268-02242016-ZEL.job</i>	<input checked="" type="checkbox"/> RTK File
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Observer Full Name <b>Zach Leesemann</b>	Home Office <b>Dayton</b>
Observer email <b>Zach.Leesemann@Woolpert.com</b>	
Observer Phone Office - <b>937 . 531 . 1211</b> Cell - <b>937 . 684 . 0558</b>	

Start Time : : 9 : 33 local	Stop Time : : 9 : 40 local	Calendar Date <i>02/24/2016</i>
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Station Classification <input type="checkbox"/> FBN <input type="checkbox"/> CBN <input type="checkbox"/> BM <input type="checkbox"/> PACS <input type="checkbox"/> SACS <input type="checkbox"/> TSM <input type="checkbox"/> EoR <input type="checkbox"/> NAVOID <input checked="" type="checkbox"/> Photo Control <input type="checkbox"/> Other:				
Station PID	Sta. SSN	Sta. ID <i>102</i>	Session	Julian Day <i>055</i>

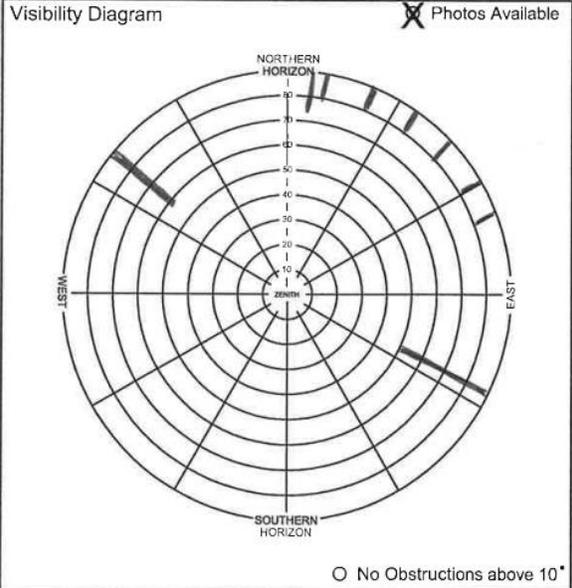


Latitude <i>N 32° 23' 48.58"</i>	Longitude <i>W 90° 03' 56.02"</i>
Antenna Ht. (before; include add, offsets) <i>2.00 m</i>	E-Height <i>186.850 sft</i>
Ant. Ht. Measured To <input checked="" type="checkbox"/> Bottom of Ant. Mt. <input type="checkbox"/> Other:	Ground Plane <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tripod Type <input checked="" type="checkbox"/> Fixed-Ht. <input type="checkbox"/> Slip-leg <input type="checkbox"/> Fixed mount <input checked="" type="checkbox"/> Bi-pod	

Receiver R8-3 P/N 67250-66 S/N 5211484428	Antenna R8-3 P/N 67250-66 S/N 5211484428
---	--

Location Description / Comments

*X*



Setting Type • <i>MARKED POINT</i>	Monument Size <i>N/A</i>
<input type="checkbox"/> Deep Rod <input type="checkbox"/> Concrete Mon. <input type="checkbox"/> Fixed Mt.	
Stamping <i>N/A</i>	Inscription (i.e. NGS, Woolpt, etc.) <i>N/A</i>
Photo Ctrl Target Type <i>PAINT STRIPE</i>	



**102, 3E, 24FEB2016**

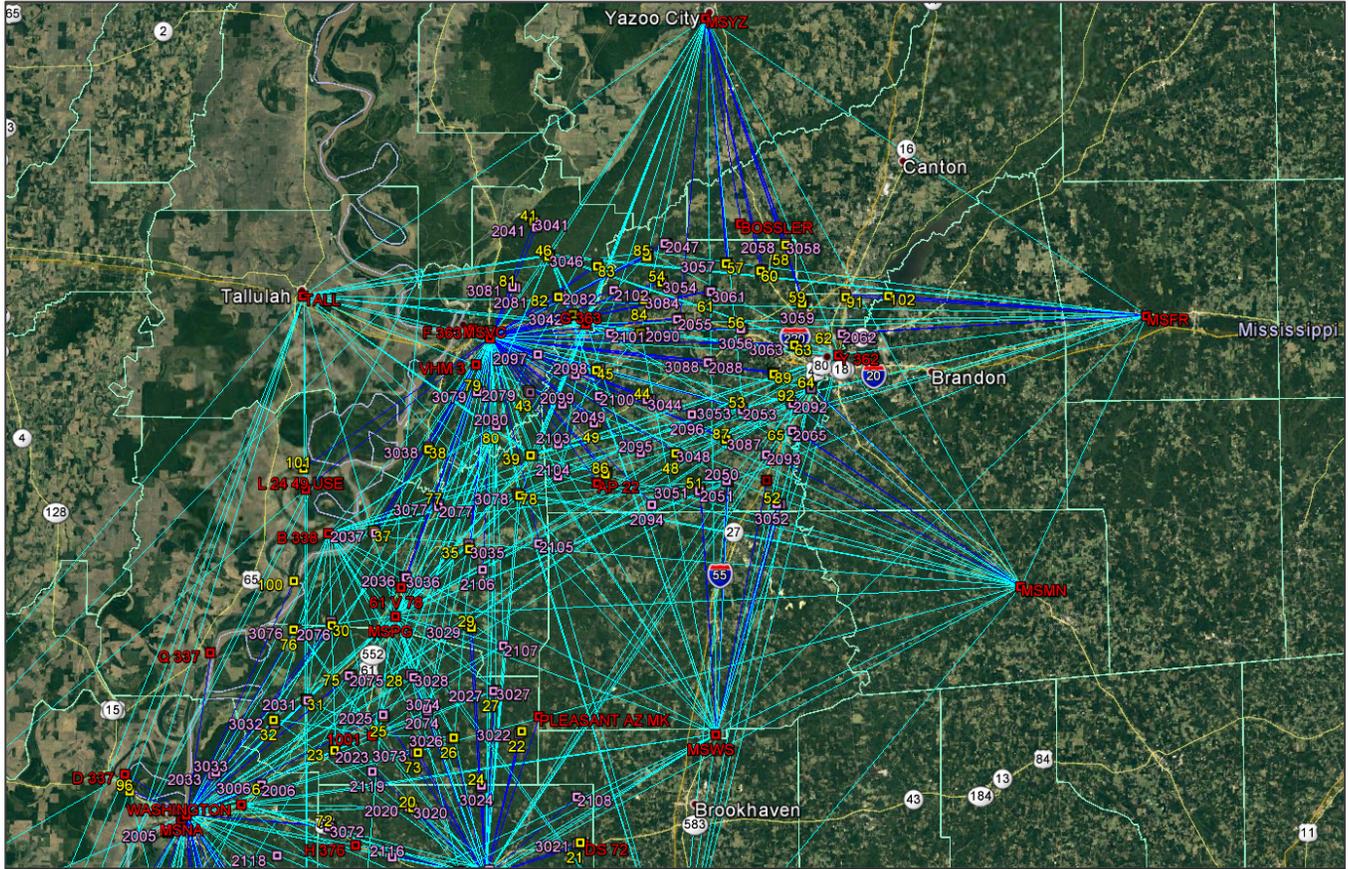


**102, 3N, 24FEB2016**



## Section 5: GPS Control Diagram

This section contains a graphical representation of the control stations used for the USGS Mississippi NRCS FY16 LiDAR Project. The diagrams on the following pages depict the control stations used in the NAD83 (2011) adjustment.



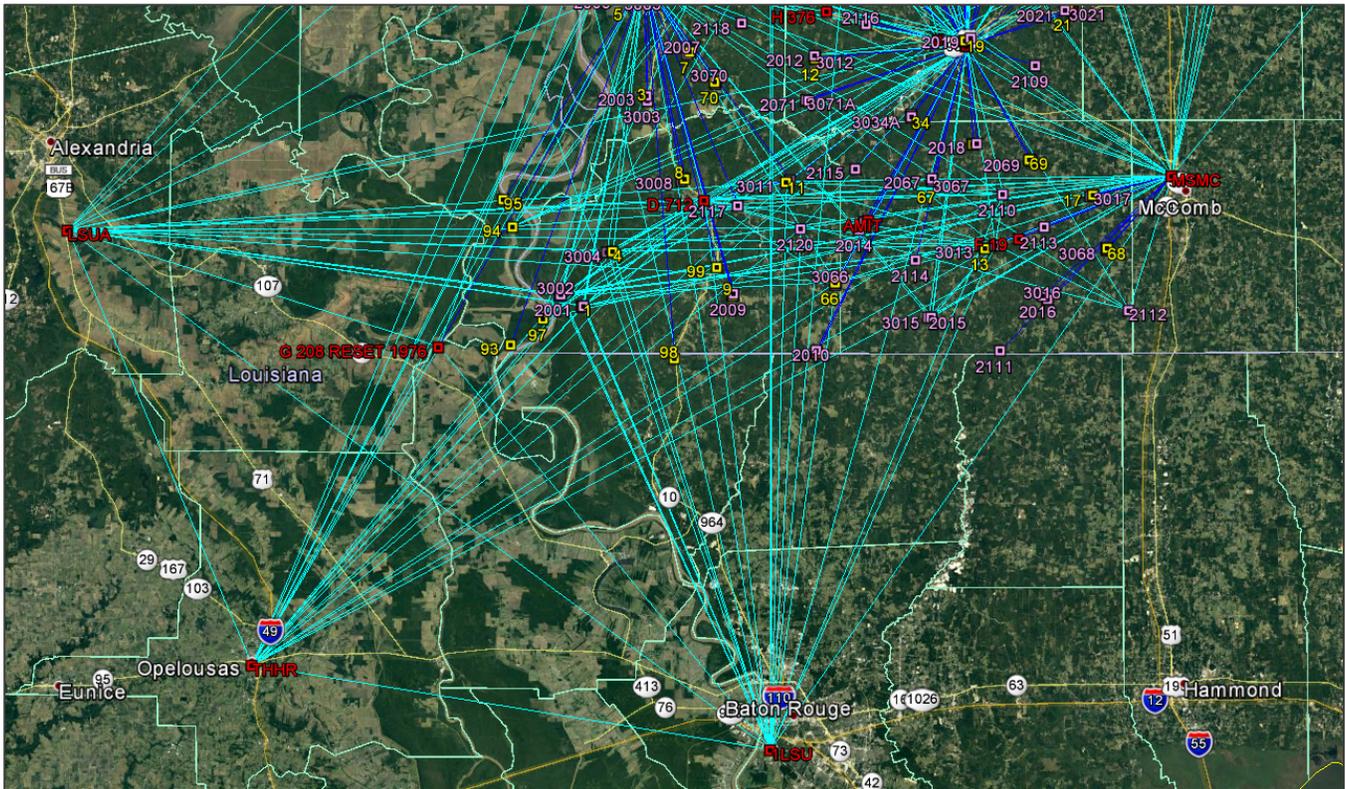
**USGS MISSISSIPPI NRCS FY16 LIDAR PROJECT  
TASK ORDER NUMBER: G16PD00331  
NORTHERN HALF**

Horizontal Datum: NAD 83 (2011)  
Vertical Datum: NAVD 88  
Units: Meters  
UTM Zone: UTM 15 North  
Geoid Model: Geoid 12B  
Coordinate System: Grid  
Date: March 2017



- Geodetic Control and/or Geodetic Control Check
- LiDAR Control Stations
- LiDAR Quality Control Stations

**NOT TO SCALE**



**USGS MISSISSIPPI NRCS FY16 LiDAR PROJECT  
TASK ORDER NUMBER: G16PD00331  
SOUTHERN HALF**

*Horizontal Datum: NAD 83 (2011)  
Vertical Datum: NAVD 88  
Units: Meters  
UTM Zone: UTM 15 North  
Geoid Model: Geoid 12B  
Coordinate System: Grid  
Date: March 2017*



- Geodetic Control and/or Geodetic Control Check
- LiDAR Control Stations
- LiDAR Quality Control Stations

**NOT TO SCALE**