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DOCUMENT INFORMATION: (TITLE, NUMBER, REV, DATE)
79K38780 CX 39 AREA BENCH MARK SITE CONTROL (drawing set)
79K38822 CX 39 Area Bench Mark Site Control (Word doc)

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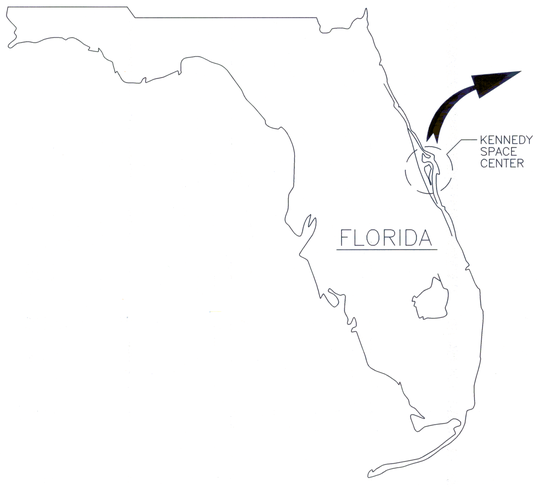
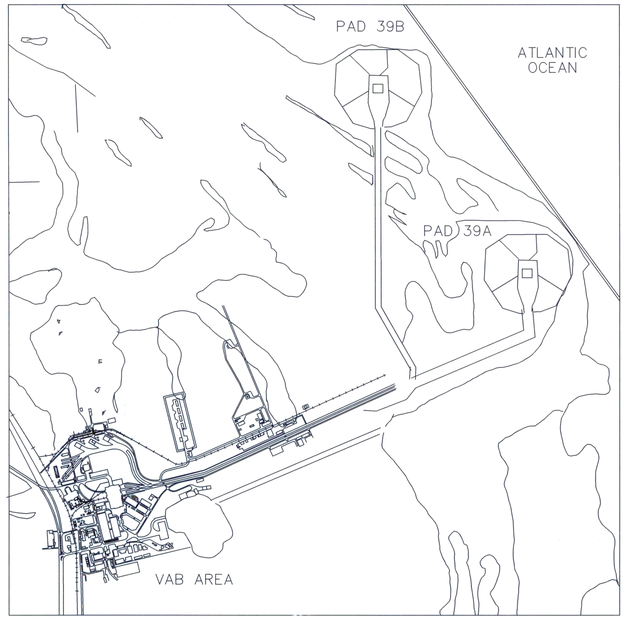
CX 39 AREA
BENCH MARK SITE CONTROL

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

John F. Kennedy Space Center
Kennedy Space Center, Florida 32899





N
AREA MAP
NO SCALE

NOTES:

1. This drawing set is a graphic representation of the locations of and published control coordinates for various control monuments lying in close proximity to Launch Complex 39 A, Launch Complex 39 B, the Vertical Assembly Building and the Crawler Park Site.
2. The control coordinates are in different control datums as indicated in the tables.
3. The control data shown is provided by various agencies as indicated in the tables.

LEGEND:

⊙ Indicates Control Point

ABBREVIATIONS:

E	Easting
MLPS	Mobile Launch Pad Support
N	Northing
NAD	North American Datum
NAVD	North American Vertical Datum
VAB	Vehicle Assembly Building
WGS	World Geodetic System

DRAWING INDEX

REV. STATUS	SHEET NO.	SHEET TITLE
	V1	COVER SHEET
	V2	KEY MAP
	V3	LAUNCH PAD 39 B
	V4	LAUNCH PAD 39 A
	V5	VAB AND PARK SITE 3

DRAWING No. 79K38780

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SUBMITTED	RICHARD YOUNG	5-19-10
APPROVED	STEVEN MOORE	5.19.10
	MITCHELL RABINOWITZ	5/19/10
	GUS DIAZ	5/19/10

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CX 39 AREA

BENCH MARK
SITE CONTROL
COVER SHEET

FILE NO.	SIZE	DWG. NO.	REV
	F	79K38780	

PROJ. NO. SHEET 1 OF 5

KSC FORM 1-11 (REV. 3/76) (C/G 3/93)

rvey\Drawings - DXG\2006\060079 LC 39B\060079.1 CX 39 Area BM Site Control\0600791_V1.dwg, ANSI F, 5/18/2010 11:16:18 AM, dgiovannini

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KEY MAP

N

KEY MAP
NO SCALE

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CX 39 AREA

BENCH MARK
SITE CONTROL
KEY AMP

FILE NO.	SIZE	DWG. NO.	REV
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PROJ. NO. SHEET 2 OF 5

KSC FORM 1-11 (REV. 3/76) (C/G 3/93)

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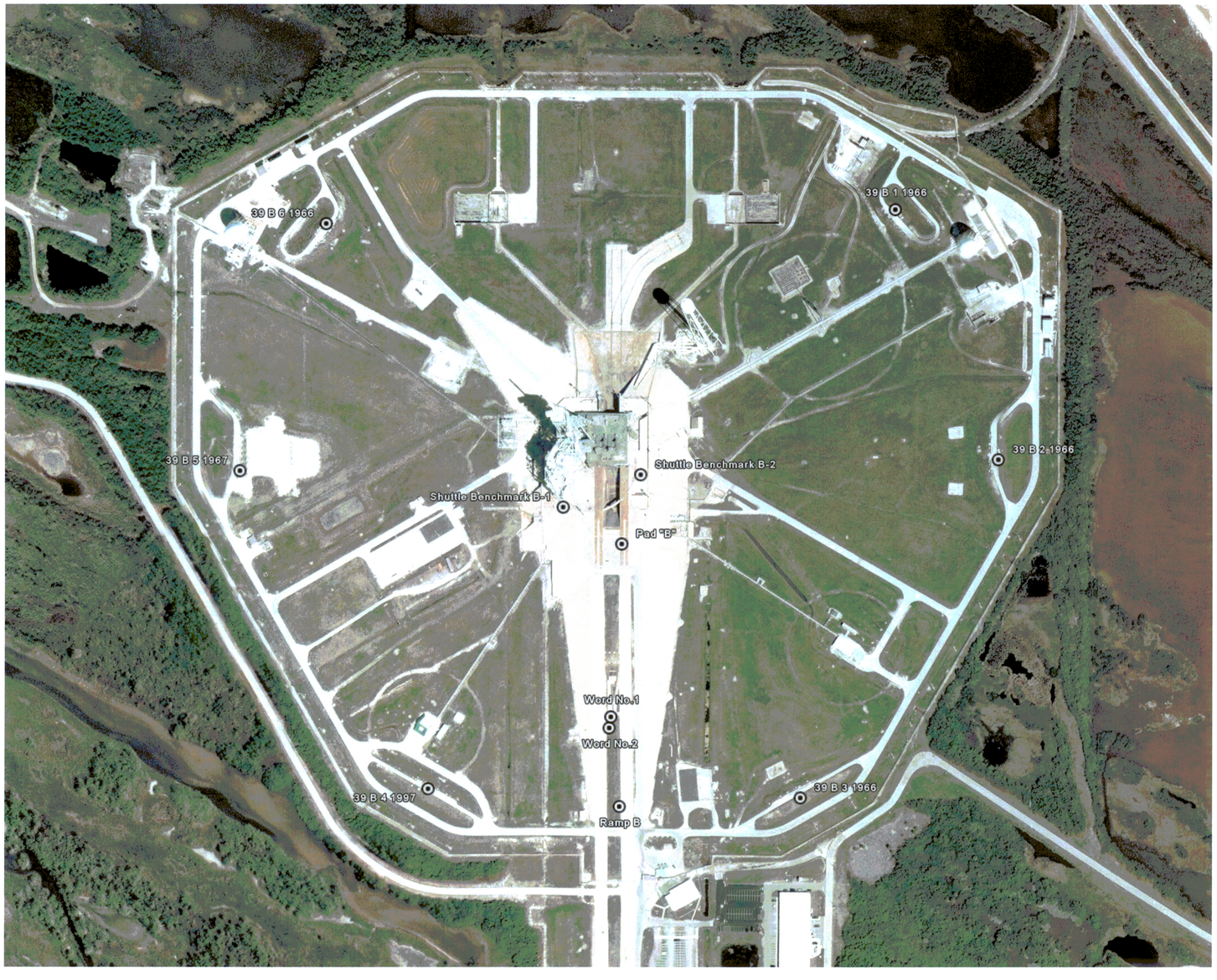
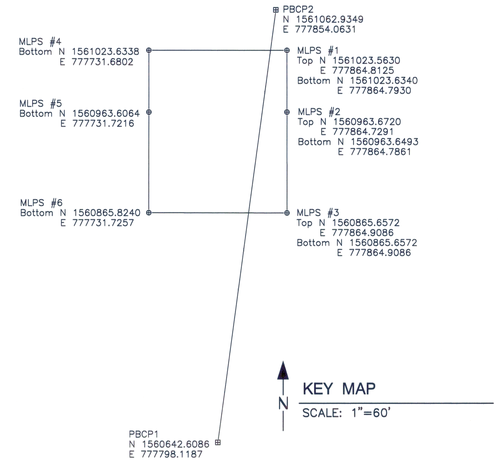


LAUNCH PAD 39 B

KEY MAP
NO SCALE

DETAIL OF MOBILE LAUNCH PAD SUPPORTS AND TARGET POINTS



All control values shown on this detail were determined by Allen Engineering, Inc. using information published on the NGS Data Sheet for Control Monument 39 B 3, PID AK1118. Horizontal information is in North American Datum (NAD) 83 (1990) datum. Monument is a Triangulation Station Disk set in the top of a concrete monument stamped 39 B-3 1966.

Data Provided By National Geospatial Intelligence Agency					
Station Name	**Latitude NAD 83 (2007)**	**Longitude NAD 83 (2007)**	**Northing NAD 83 (2007)**	**Easting NAD 83 (2007)**	**NAVD 88 Elevation (Feet)**
Ramp B	28° 37' 25.9261" N	80° 37' 14.9515" W	1559719.969	777812.830	15.056
Shuttle Benchmark B-1	28° 37' 36.2478" N	80° 37' 17.1531" W	1560759.863	777614.382	51.240
Shuttle Benchmark B-2	28° 37' 37.3708" N	80° 37' 14.1366" W	1560876.103	777881.783	51.233
Pad "B"	28° 37' 34.9766" N	80° 37' 14.8721" W	1560634.083	777817.007	51.210
Word No.1	28° 37' 29.0182" N	80° 37' 15.2850" W	1560032.174	777782.120	30.256
Word No.2	28° 37' 28.6405" N	80° 37' 15.3480" W	1559994.009	777776.626	28.097
39 B 1 1966	28° 37' 46.5133" N	80° 37' 04.2236" W	1561802.300	778762.208	16.568
39 B 2 1966	28° 37' 37.8934" N	80° 37' 00.2075" W	1560932.843	779122.877	16.877
39 B 3 1966	28° 37' 26.2348" N	80° 37' 07.9054" W	1559753.144	778440.648	16.637
39 B 4 1997	28° 37' 26.5426" N	80° 37' 22.3916" W	1559780.139	777149.604	16.611
39 B 5 1967	28° 37' 37.5028" N	80° 37' 29.7391" W	1560885.049	776491.357	16.581
39 B 6 1966	28° 37' 46.0221" N	80° 37' 26.3825" W	1561746.429	776787.767	16.503
Data From Published National Geodetic Survey (NGS) Data Sheets					
Station Name	**Latitude NAD 83 (1990)**	**Longitude NAD 83 (1990)**	**Northing NAD 83 (1990)**	**Easting NAD 83 (1990)**	**NAVD 88 Elevation (Feet)**
Ramp B	28° 37' 25.9248" N	80° 37' 14.9521" W	1559719.840	777812.780	15.22
Shuttle Benchmark B-1					
Shuttle Benchmark B-2					
Pad "B"			1560634.036	777817.041	51.28
Word No.1	28° 37' 29.0173" N	80° 37' 15.2852" W	1560032.09	777782.10	30.26
Word No.2	28° 37' 28.6397" N	80° 37' 15.3485" W	1559993.93	777776.58	28.3*
39 B 1 1966	28° 37' 46.5128" N	80° 37' 04.2232" W	1561802.25	778762.21	16.64
39 B 2 1966	28° 37' 37.8928" N	80° 37' 00.2070" W	1560932.78	779122.92	16.88
39 B 3 1966	28° 37' 26.2336" N	80° 37' 07.9053" W	1559753.02	778440.66	16.68
39 B 4 1997					
39 B 5 1967	28° 37' 37.5021" N	80° 37' 29.7405" W	1560884.98	776491.24	16.7*
39 B 6 1966	28° 37' 46.0214" N	80° 37' 26.3826" W	1561746.36	776787.76	16.62
Note: Elevations shown with * have been converted from NGVD 1929 datum to NAD 88 by NGS					

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CX 39 AREA

BENCH MARK
SITE CONTROL
LAUNCH PAD 39 B

FILE NO.	SIZE	DWG. NO.	REV
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PROJ. NO. SHEET 3 OF 5

KSC FORM 1-11 (REV. 3/76) (C/G 3/93)

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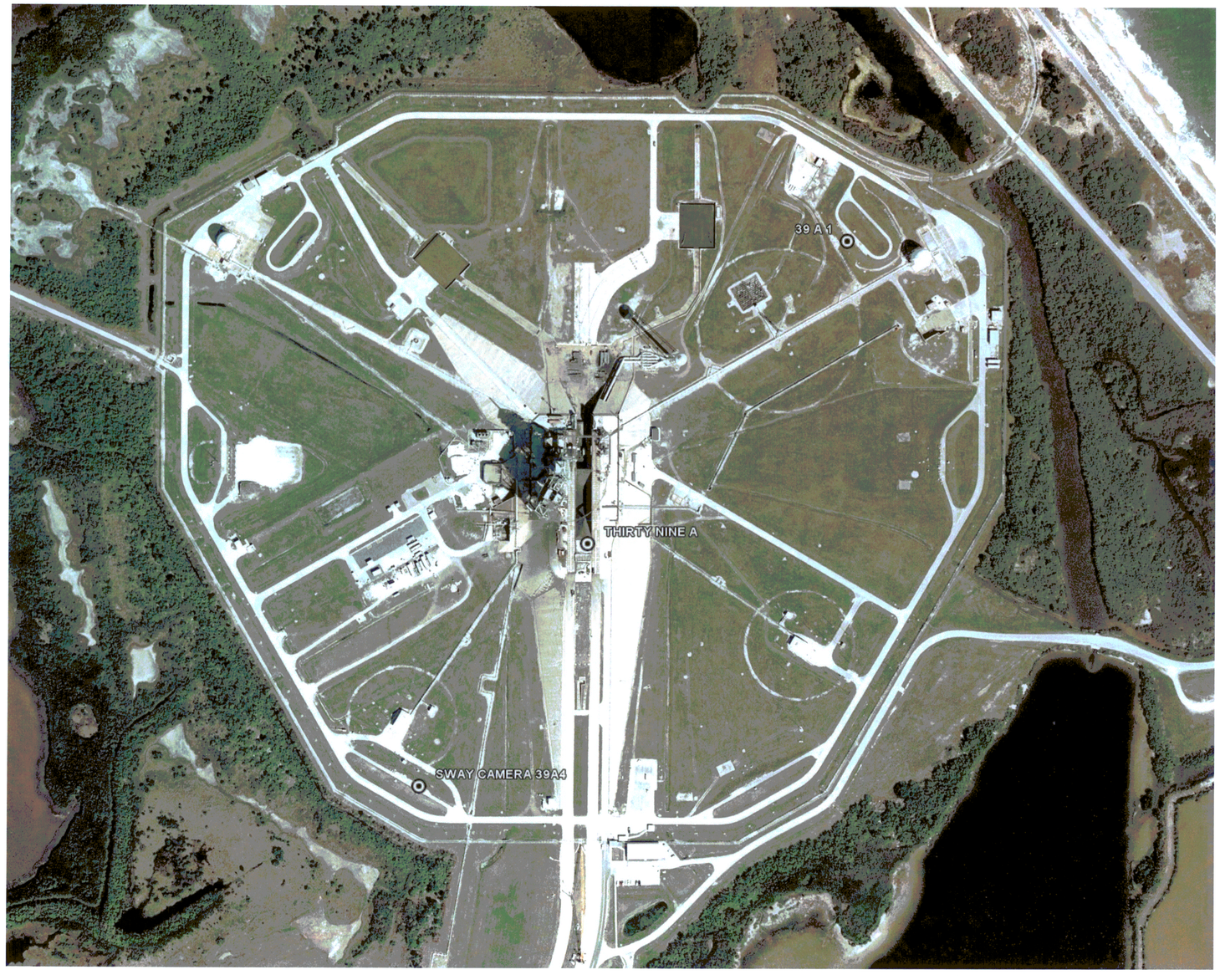

LAUNCH PAD 39 A

KEY MAP
NO SCALE

Data From Published National Geodetic Survey (NGS) Data Sheets					
Station Name	Latitude NAD 83 (1990)	Longitude NAD 83 (1990)	Northing NAD 83 (1990)	Easting NAD 83 (1990)	NAVD 88 Elevation (Feet)
39 A 1	28° 36' 38.06022" N	80° 36' 03.98792" W	1554906.130	784152.920	19.85
SWAY CAMERA 39A4	28° 36' 18.24510" N	80° 36' 21.46591" W	1552899.670	782601.750	16.80
THIRTY NINE A	28° 36' 27.06119" N	80° 36' 14.60900" W	1553792.100	783209.970	46.38

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APPROVED: RICHARD YOUNG	5-17-10

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CX 39 AREA

BENCH MARK
SITE CONTROL
LAUNCH PAD 39 A

FILE NO.	SIZE	DWG. NO.	REV
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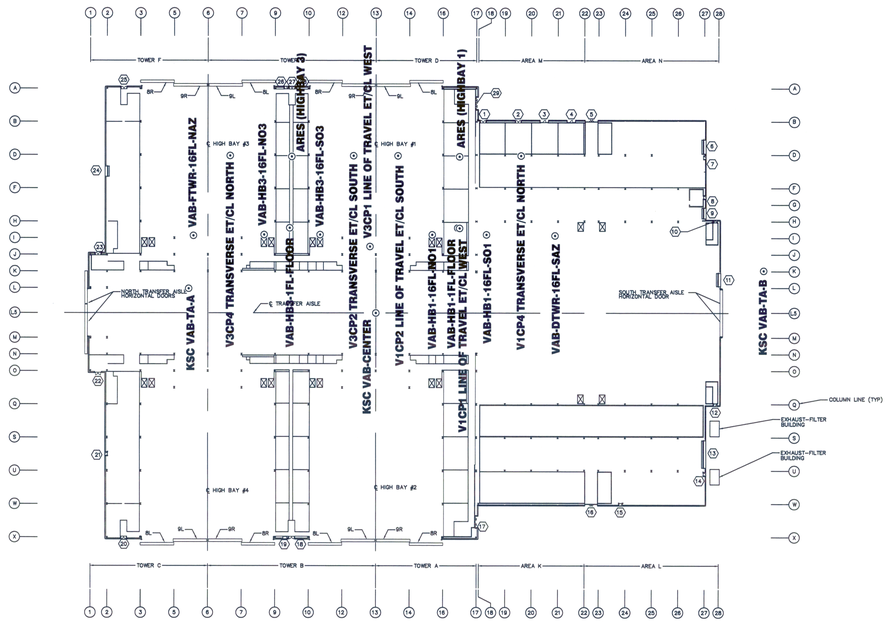

DETAIL OF VERTICAL ASSEMBLY BUILDING STATIONS

KEY MAP
NO SCALE

Data Provided By National Geospatial Intelligence Agency					
Station Name	**Latitude NAD 83 (2007)**	**Longitude NAD 83 (2007)**	**Easting NAD 83 (2007)**	**Northing NAD 83 (2007)**	**NAVD 88 Elevation (Feet)**
ARES (HIGHBAY 1)	28°35'09.3136"N	80°39'01.7096"W	768339.324	1545893.325	8.691
ARES (HIGHBAY 3)	28°35'11.1442"N	80°39'02.2000"W	768295.066	1546078.085	8.570
KSC VAB-CENTER	28°35'09.8196"N	80°39'03.9062"W	768143.353	1545943.859	8.707
KSC VAB-TA-A	28°35'11.9230"N	80°39'04.1480"W	768121.179	1546156.236	8.740
KSC VAB-TA-B	28°35'05.6935"N	80°39'02.2404"W	768293.071	1545527.564	8.688
V1CP1 LINE OF TRAVEL ET/CL WEST	28°35'09.1269"N	80°39'02.6030"W	768259.734	1545874.237	8.727
V1CP2 LINE OF TRAVEL ET/CL SOUTH	28°35'09.9888"N	80°39'01.8792"W	768324.005	1545961.475	8.766
V1CP4 TRANSVERSE ET/CL NORTH	28°35'08.6427"N	80°39'01.5182"W	768356.584	1545825.615	8.809
V3CP1 LINE OF TRAVEL ET/CL WEST	28°35'10.0574"N	80°39'03.0934"W	768215.742	1545968.088	8.757
V3CP2 TRANSVERSE ET/CL SOUTH	28°35'10.4733"N	80°39'02.0086"W	768312.327	1546010.375	8.753
V3CP4 TRANSVERSE ET/CL NORTH	28°35'11.8193"N	80°39'02.3694"W	768279.766	1546146.225	8.799
VAB-DTWR-16FL-SAZ	28°35'08.0642"N	80°39'02.4154"W	768276.771	1545766.955	
VAB-FTWR-16FL-NAZ	28°35'12.0096"N	80°39'03.4738"W	768181.256	1546165.158	
VAB-HB1-16FL-NO1	28°35'09.4102"N	80°39'02.7638"W	768245.316	1545902.808	
VAB-HB1-16FL-SO1	28°35'08.8159"N	80°39'02.6042"W	768259.719	1545842.826	
VAB-HB1-1FL-FLOOR	28°35'09.1489"N	80°39'02.6048"W	768259.567	1545876.458	8.760
VAB-HB3-16FL-NO3	28°35'11.2422"N	80°39'03.2556"W	768200.934	1546087.709	
VAB-HB3-16FL-SO3	28°35'10.6324"N	80°39'03.0920"W	768215.698	1546026.162	

VERTICAL ASSEMBLY BUILDING & PARK SITE 3

KEY MAP
NO SCALE

Data Provided By National Geospatial Intelligence Agency					
Station Name	**WGS 84 Latitude**	**WGS 84 Longitude**	**Northing NAD 83 (2007)**	**Easting NAD 83 (2007)**	**NAVD 88 Elevation (Feet)**
CHARLIE-1	28°35'24.8791"N	80°39'17.2603"W	1547461.392	766948.486	6.299
MLP EAST	28°35'25.8008"N	80°39'06.0606"W	1547557.398	767946.647	6.683
MLP WEST	28°35'23.4131"N	80°39'14.3693"W	1547314.086	767206.640	6.686
PK-A	28°35'25.7148"N	80°39'10.7282"W	1547547.507	767530.567	7.753

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CX 39 AREA

BENCH MARK
SITE CONTROL
VAB AND PARK SITE 3

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PROJ. NO.	SHEET 5 OF 5		

KSC FORM 1-11 (REV. 3/76) (C/G 3/93)

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