

SPECIFIC PURPOSE SURVEY SURVEYOR'S REPORT  
TO ESTABLISH ELEVATIONS AT SPECIFIC  
WELL SITES ADJACENT TO THE L-8



L-8 WELL SITES - AUGUST 2014											
WELL SITE	SITE BM ELEV	SITE BENCH MARK	DESIGNATION	WELL LOCATION	NORTHING	EASTING	REFERENCE ELEVATION DESCRIPTION	REFERENCE ELEVATION (NAVD88)	GROUND ELEVATION (NAVD88)	FIELD BOOK	PAGE
L8FEB1	29.82	BM "LB FEB1 2014" A SFWMD ALUM CAP SET IN 1-1/4" GALVANIZED PIPE IN CONCRETE 3.7' EAST OF THE CENTER WELL; 14.5' SE OF THE N. WELL; 14.5' NE OF THE S. WELL	1L	NORTH	874,790	863,683	"V" NOTCH ON EAST TOP OF 8" PVC VERTICAL CASING	33.94	30.6	6T	20
			1M	CENTER				33.81	30.4		
			1U	SOUTH				33.72	30.3		
L8FEB2	28.75	BM "LB FEB2 2014" A SFWMD ALUM CAP SET IN 1-1/4" GALVANIZED PIPE IN CONCRETE 0.7' BELOW GROUND	2L	NORTHWEST	859,778	863,391	"V" NOTCH ON EAST TOP OF 8" PVC VERTICAL CASING	32.99	29.5	6T	22
			2M	CENTER				33.09	29.6		
			2U	SOUTHEAST				32.77	29.4		
L8FEB3	31.59	BM "LB FEB3 2014" A SFWMD ALUM CAP SET IN 1-1/4" GALVANIZED PIPE IN CONCRETE 0.5' BELOW GROUND	3L	NORTH	857,100	863,449	"V" NOTCH ON EAST TOP OF 8" PVC VERTICAL CASING	36.02	32.6	6T	24
			3M	CENTER				35.71	32.2		
			3U	SOUTH				35.75	32.2		
L8FEB4	18.05	BM "L8FEB4 2014" A SFWMD ALUM CAP SET IN CONC. STEP ON THE EAST TOP OF THE WEST CONCRETE LEVEE TOP	4U	SOUTH	869,534	859,736	"V" NOTCH ON EAST TOP OF 8" PVC VERTICAL CASING	18.66	15.3	6T	16-17
			4L	CENTER				18.70	15.4		
			4M	NORTH				18.70	15.2		
L8FEB5	15.74	BM "L8 RES SITE6 2010" RECOVERED POURED IN PLACE CONCRETE MONUMENT WITH SFWMD ALUMINUM CAP	5L	NORTH	875,100.07	859,786.20	"V" NOTCH ON EAST TOP OF 8" PVC VERTICAL CASING	18.95	15.5	6T	17-18
			5U	CENTER				18.59	15.3		
			5M	SOUTH				18.46	15.0		
L8FEB6	16.07	BM "L8 FEB6 2014" A SFWMD ALUM CAP SET IN 1-1/4" GALVANIZED PIPE IN CONCRETE 0.4' BELOW GROUND	DR2S	WEST	869,456	865,881	"V" NOTCH ON SOUTH SIDE OF 2" PVC VERTICAL CASING	15.86	16.4	6T	29
			DR2D	EAST				16.16	16.4		
L8FEB7	16.26	BM "TUNA" RECOVERED PALM BEACH COUNTY BRASS DISK	DR15	WEST	869,436.28	867,062.76	"V" NOTCH ON SOUTH SIDE OF 2" PVC VERTICAL CASING	14.79	15.1	6T	30
			DR1D	EAST				14.95	15.3		
L8PZ5	15.20	BM "L8 DIVIDE" FOUND NGS CLASS "B" STAINLESS STEEL ROD IN ALUMINUM CASING DRIVEN TO REFUSAL	L8PZ5D	NORTH	869,282.79	863,925.90	"V" NOTCH ON NW SIDE OF 4"X4" ALUMINUM WELL CASING	23.02	20.8	6T	25
			L8PZ5C	N'LY CENTER				23.14	20.8		
			L8PZ5B	S'LY CENTER				23.06	20.7		
			L8PZ5A	SOUTH				22.97	20.6		
L8PZ8	23.85	BM "MACKEREL" FOUND PALM BEACH COUNTY BRASS DISK	L8PZ8B	NORTH	869,590.03	864,211.54	"V" NOTCH ON NW SIDE OF 4"X4" ALUMINUM WELL CASING	26.71	24.1	6T	27
			L8PZ8A	SOUTH				26.83	24.3		



L-8 WELL SITES - AUGUST 2014




WELL SITE	SITE BM ELEV	SITE BENCH MARK	DESIGNATION	WELL LOCATION	NORTHING	EASTING	REFERENCE ELEVATION DESCRIPTION	REFERENCE ELEVATION (NAVD88)	GROUND ELEVATION (NAVD88)	FIELD BOOK	PAGE
L8FEB1	29.82	BM "LB FEB1 2014" A SFWMD ALUM CAP SET IN 1-1/4" GALVANIZED PIPE IN CONCRETE 3.7' EAST OF THE CENTER WELL; 14.5' SE OF THE N. WELL; 14.5' NE OF THE S. WELL	1L	NORTH	874,790	863,683	"V" NOTCH ON EAST TOP OF 8" PVC VERTICAL CASING	<del>33.84</del> 34.49	30.6	6T	20
			1M	CENTER				<del>33.81</del> 34.32	30.4		
			1U	SOUTH				<del>33.72</del> 34.23	30.3		
L8FEB2	28.75	BM "LB FEB2 2014" A SFWMD ALUM CAP SET IN 1-1/4" GALVANIZED PIPE IN CONCRETE 0.7' BELOW GROUND	2L	NORTHWEST	859,778	863,391	"V" NOTCH ON EAST TOP OF 8" PVC VERTICAL CASING	<del>32.95</del> 33.55	29.5	6T	22
			2M	CENTER				<del>33.69</del> 33.31	29.6		
			2U	SOUTHEAST				<del>32.77</del> 33.24	29.4		
L8FEB3	31.59	BM "LB FEB3 2014" A SFWMD ALUM CAP SET IN 1-1/4" GALVANIZED PIPE IN CONCRETE 0.5' BELOW GROUND	3L	NORTH	857,100	863,449	"V" NOTCH ON EAST TOP OF 8" PVC VERTICAL CASING	<del>36.02</del> 36.35	32.6	6T	24
			3M	CENTER				<del>35.71</del> 36.17	32.2		
			3U	SOUTH				<del>35.72</del> 36.20	32.2		
L8FEB4	18.05	BM "L8FEB4 2014" A SFWMD ALUM CAP SET IN CONC. STEP ON THE EAST TOP OF THE WEST CONCRETE LEVEE TOP	4U	SOUTH	869,534	859,736	"V" NOTCH ON EAST TOP OF 8" PVC VERTICAL CASING	<del>13.66</del> 19.15	15.3	6T	16-17
			4L	CENTER				<del>13.70</del> 19.22	15.4		
			4M	NORTH				<del>13.70</del> 19.21	15.2		
L8FEB5	15.74	BM "L8 RES SITE6 2010" RECOVERED POURED IN PLACE CONCRETE MONUMENT WITH SFWMD ALUMINUM CAP	5L	NORTH	875,100.07	859,786.20	"V" NOTCH ON EAST TOP OF 8" PVC VERTICAL CASING	<del>13.94</del> 19.41	15.5	6T	17-18
			5U	CENTER				<del>13.59</del> 19.10	15.3		
			5M	SOUTH				<del>13.40</del> 18.97	15.0		
L8FEB6	16.07	BM "L8 FEB6 2014" A SFWMD ALUM CAP SET IN 1-1/4" GALVANIZED PIPE IN CONCRETE 0.4' BELOW GROUND	DR2S	WEST	869,456	865,881	"V" NOTCH ON SOUTH SIDE OF 2" PVC VERTICAL CASING	15.86	16.4	6T	29
			DR2D	EAST				16.16	16.4		
L8FEB7	16.26	BM "TUNA" RECOVERED PALM BEACH COUNTY BRASS DISK	DR15	WEST	869,436.28	867,062.76	"V" NOTCH ON SOUTH SIDE OF 2" PVC VERTICAL CASING	14.79	15.1	6T	30
			DR1D	EAST				14.95	15.3		
L8PZ5	15.20	BM "L8 DIVIDE" FOUND NGS CLASS "B" STAINLESS STEEL ROD IN ALUMINUM CASING DRIVEN TO REFUSAL	L8PZ5D	NORTH	869,282.79	863,925.90	"V" NOTCH ON NW SIDE OF 4"X4" ALUMINUM WELL CASING	<del>23.02</del>	20.8	6T	25
			L8PZ5C	N'LY CENTER				<del>23.14</del>	20.8		
			L8PZ5B	S'LY CENTER				<del>23.06</del>	20.7		
			L8PZ5A	SOUTH				<del>22.97</del>	20.6		
L8PZ8	23.85	BM "MACKEREL" FOUND PALM BEACH COUNTY BRASS DISK	L8PZ8B	NORTH	869,590.03	864,211.54	"V" NOTCH ON NW SIDE OF 4"X4" ALUMINUM WELL CASING	<del>26.71</del>	24.1	6T	27
			L8PZ8A	SOUTH				<del>26.83</del>	24.3		

Use reference elevation in DBHydro



Use reference elevation in DBHydro

L-8 WELL SITES: L8FEB1; L8FEB2; L8FEB3											
WELL SITE	SITE BM ELEV	SITE BENCH MARK	WELL LOCATION	DESIGNATION	NORTHING	EASTING	REFERENCE ELEVATION DESCRIPTION	WELL ELEVATION (NAVD88)	GROUND ELEVATION (NAVD88)	FIELD BOOK	PAGE
L8FEB1	29.82	BM "LB FEB1 2014" A SFWMD ALUM CAP SET IN 1-1/4" GALVANIZED PIPE IN CONCRETE 3.7' EAST OF THE CENTER WELL; 14.5' SE OF THE N. WELL; 14.5' NE OF THE S. WELL	NORTH WELL	1L	874,790	863,683	"V" NOTCH ON EAST TOP OF 8" PVC VERTICAL CASING	33.94	30.61	6T	19-20
			CENTER WELL	1M				33.81	30.36		
			SOUTH WELL	1U				33.72	30.31		












L-8 WELL SITES - L8FEB2											
WELL SITE	SITE BM ELEV	SITE BENCH MARK	WELL LOCATION	DESIGNATION	NORTHING	EASTING	REFERENCE ELEVATION DESCRIPTION	WELL ELEVATION (NAVD88)	GROUND ELEVATION (NAVD88)	FIELD BOOK	PAGE
L8FEB2	28.75	BM "LB FEB2 2014" A SFWMD ALUM CAP SET IN 1-1/4" GALVANIZED PIPE IN CONCRETE 0.7' BELOW GROUND	NORTHWEST	2L	859,778	863,391	"V" NOTCH ON EAST TOP OF 8" PVC VERTICAL CASING	32.99	29.46	6T	22
			CENTER	2M				33.09	29.59		
			SOUTHEAST	2U				32.77	29.35		








L-8 WELL SITES - L8FEB3											
WELL SITE	SITE BM ELEV	SITE BENCH MARK	WELL LOCATION	DESIGNATION	NORTHING	EASTING	REFERENCE ELEVATION DESCRIPTION	WELL ELEVATION (NAVD88)	GROUND ELEVATION (NAVD88)	FIELD BOOK	PAGE
L8FEB3	31.59	BM "LB FEB3 2014" A SFWMD ALUM CAP SET IN 1-1/4" GALVANIZED PIPE IN	NORTH	3L	857,100	863,449	"V" NOTCH ON EAST TOP OF 8" PVC VERTICAL CASING	36.02	32.55	6T	24
			CENTER	3M				35.71	32.2		
			SOUTH	3U				35.75	32.24		





L-8 WELL SITES: L8FEB4; L8FEB5; L8FEB6											
WELL SITE	SITE BM ELEV	SITE BENCH MARK	WELL LOCATION	DESIGNATION	NORTHING	EASTING	REFERENCE ELEVATION DESCRIPTION	WELL ELEVATION (NAVD88)	GROUND ELEVATION (NAVD88)	FIELD BOOK	PAGE
L8FEB4	18.05	BM "L8FEB4 2014" A SFWMD ALUM CAP SET IN CONC. STEP ON THE EAST TOP OF THE WEST CONCRETE LEVEE TOP	SOUTH	4U	869,534	859,736	"V" NOTCH ON EAST TOP OF 8" PVC VERTICAL CASING	18.66	15.27	6T	16-17
			CENTER	4L				18.70	15.36		
			NORTH	4M				18.70	15.17		

L-8 WELL SITES - L8FEB5											
WELL SITE	SITE BM ELEV	SITE BENCH MARK	WELL LOCATION	DESIGNATION	NORTHING	EASTING	REFERENCE ELEVATION DESCRIPTION	WELL ELEVATION (NAVD88)	GROUND ELEVATION (NAVD88)	FIELD BOOK	PAGE
L8FEB5	15.74	BM "L8 RES SITE6 2010" RECOVERED POURED IN PLACE CONCRETE MONUMENT WITH SFWMD ALUMINUM CAP	NORTH	5L	875,100.07	859,786.20	"V" NOTCH ON EAST TOP OF 8" PVC VERTICAL CASING	18.95	15.49	6T	17-18
			CENTER	5U				18.57	15.26		
			SOUTH	5M				18.46	15.02		



L-8 WELL SITES - L8FEB6											
WELL SITE	SITE BM ELEV	SITE BENCH MARK	WELL LOCATION	DESIGNATION	NORTHING	EASTING	REFERENCE ELEVATION DESCRIPTION	WELL ELEVATION (NAVD88)	GROUND ELEVATION (NAVD88)	FIELD BOOK	PAGE
L8FEB6	16.07	BM "L8 FEB6 2014" A SFWMD ALUM CAP SET IN 1-1/4" GALVANIZED PIPE IN CONCRETE 0.4' BELOW GROUND	WEST	DR2S	869,456	865,881	"V" NOTCH ON SOUTH SIDE OF 2" PVC VERTICAL CASING	15.86	16.36	6T	29
			EAST	DR2D				16.16	16.42		



L-8 WELL SITES: L8FEB7; L8PZ5; L8PZ8											
WELL SITE	SITE BM ELEV	SITE BENCH MARK	WELL LOCATION	DESIGNATION	NORTHING	EASTING	REFERENCE ELEVATION DESCRIPTION	WELL ELEVATION (NAVD88)	GROUND ELEVATION (NAVD88)	FIELD BOOK	PAGE
L8FEB7	16.26	BM "TUNA" FOUND PALM BEACH COUNTY BRASS DISK	WEST	DR15	869,436.28	867,062.76	"V" NOTCH ON SOUTH SIDE OF 2" PVC VERTICAL CASING	14.79	15.12	6T	30
			EAST	DR1D				14.95	15.32		



L-8 WELL SITES - L8PZ5											
WELL SITE	SITE BM ELEV	SITE BENCH MARK	WELL LOCATION	DESIGNATION	NORTHING	EASTING	REFERENCE ELEVATION DESCRIPTION	WELL ELEVATION (NAVD88)	GROUND ELEVATION (NAVD88)	FIELD BOOK	PAGE
L8 PZ5	15.20	BM "L8 DIVIDE" FOUND STAINLESS STEEL ROD IN ALUMINUM CASING	NORTH	L8PZ5D	869,282.79	863,925.90	"V" NOTCH ON NW SIDE OF 4"x4" ALUMINUM WELL CASING	23.02	20.79	6T	25
			N'LY CENTER	L8PZ5C				23.14	20.75		
			S'LY CENTER	L8PZ5B				23.06	20.67		
			SOUTH	L8PZ5A				22.97	20.62		

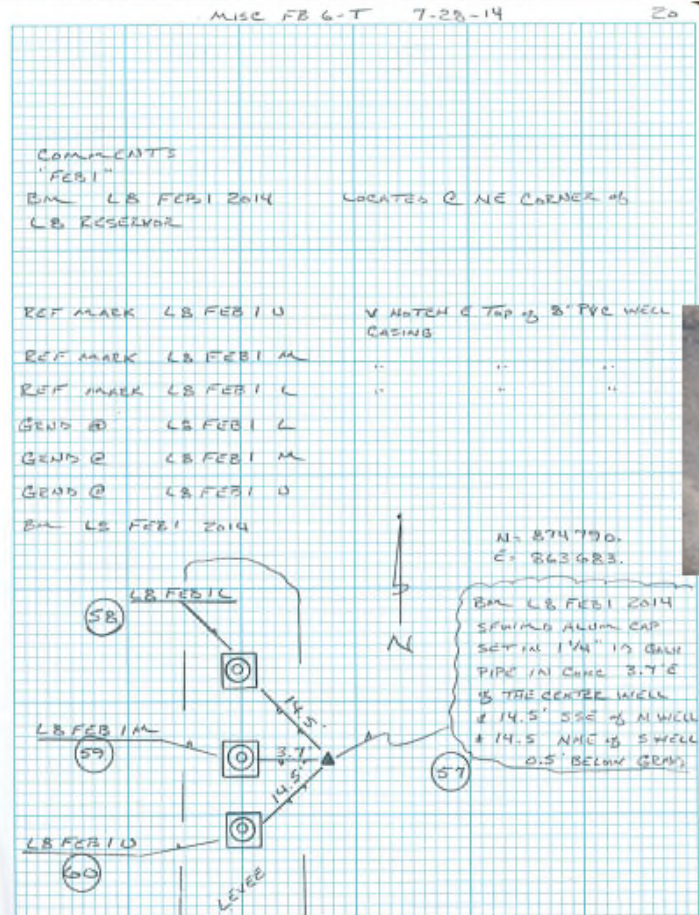


L-8 WELL SITES - L8PZ8											
WELL SITE	SITE BM ELEV	SITE BENCH MARK	WELL LOCATION	DESIGNATION	NORTHING	EASTING	REFERENCE ELEVATION DESCRIPTION	WELL ELEVATION (NAVD88)	GROUND ELEVATION (NAVD88)	FIELD BOOK	PAGE
L8PZ8	23.85	BM "MACKEREL" FOUND PALM BEACH COUNTY BRASS DISK	NORTH	L8PZ8B	869,590.03	864,211.54	"V" NOTCH ON NW SIDE OF 4"x4" ALUMINUM WELL CASING	26.71	24.14	6T	27
			SOUTH	L8PZ8A				26.83	24.32		



**BM L8FEB1**

COUNTY: PALM BEACH	PROJECT: L-8	DESIGNATION: <b>L8FEB1</b>
SECTION 17	TOWNSHIP: 43 SOUTH	RANGE: 40 EAST
NAME OF QUADRANGLE LOXAHATCHEE (1984)		
Established by: SFWMD	Recovered by _____ (Surveyor / Firm Name)	
DATE ESTABLISHED: 7/28/2014	FIELD BOOK MISC 6 T PAGE 19 & 20	
HORIZONTAL DATUM: 1927 (1983) ADJ _____ Other _____ (circle one) ZONE (E) or W		
STATE PLANE COORDINATES		N 874,790 E 863,683
LATITUDE: N DD° MM' SS.S"		LONGITUDE: W DD° MM' SS.S"
VERTICAL DATUM: MSL 1929 (1988) Other _____ (circle one)		EL. 29.821
VERTICAL DATUM: MSL (1929) 1988 Other _____ (circle one)		EL.
CONTROL ACCURACY: HORIZONTAL 1 2 3 (SUB-METER) (circle one) VERTICAL 1 2 (3)		
<b>DESCRIPTION</b>		
<p>To Reach:</p> <p>FROM THE INTERSECTION OF THE TURNPIKE ENTRANCE NORTH BOUND AND STATE ROAD 80 (SOUTHERN BLVD) IN WEST PALM BEACH PROCEED WEST ON STATE ROAD 80 12.45 MILES TO THE WEST SIDE OF L8 CANAL. TURN RIGHT AND PROCEED NORTH ALONG THE WEST SIDE OF THE L8 CANAL SHELL ROCK ROADWAY 3.65 MILE. TURN LEFT WEST AND PRECEDE DOWN AND UP THE LEVEE +/- 400 FEET TO WELL SITE L8 FEB 1 AND STATION LOCATION.</p> <p>STATION IS LOCATED 3.7 FEET EAST OF THE CENTER WELL (OF 3 WELLS) WITH A METAL WITNESS SIGN ATTACHED TO THE 8 INCH WELL CASING. 0.5 FEET BELOW GROUND.</p> <p>THE STATION IS A 1 ¼ INCH ID GALVANIZED PIPE WITH A SFWMD ALUMINUM CAP STAMPED L8 FEB 1 BM 2014. SET IN CONCRETE.</p> <p>NGS Benchmarks Used: M692 2007</p> <p>Notable Land marks: NORTHEAST CORNER OF L8 RESERVOIR</p>		



**BM L8FEB2**

Rev. 4/01

COUNTY: PALM BEACH	PROJECT L-8	DESIGNATION" <b>L8FEB2</b>
SECTION: 29	TOWNSHIP: 43 SOUTH	RANGE: 40 EAST
NAME OF QUADRANGLE LOXAHATCHEE (1984)		
Established by: SFWMD	Recovered by _____ (Surveyor / Firm Name)	
DATE ESTABLISHED: 7/28/2014	FIELD BOOK: MISC 6 T PAGE 21 & 22	
HORIZONTAL DATUM: 1927 <b>1983</b> ADJ _____ Other _____ (circle one) ZONE <b>E</b> or W		
STATE PLANE COORDINATES	N 859,778	E 863,391
LATITUDE: N DD° MM' SS.S"	LONGITUDE: W DD° MM' SS.S"	
VERTICAL DATUM: MSL 1929 <b>1988</b> Other _____ (circle one)	EL. 28.75	
VERTICAL DATUM: MSL <b>1929</b> 1988 Other _____ (circle one)	EL.	
CONTROL ACCURACY: HORIZONTAL 1 2 3 <b>SUB-METER</b> (circle one) VERTICAL 1 2 <b>3</b>		

**DESCRIPTION**

To Reach:

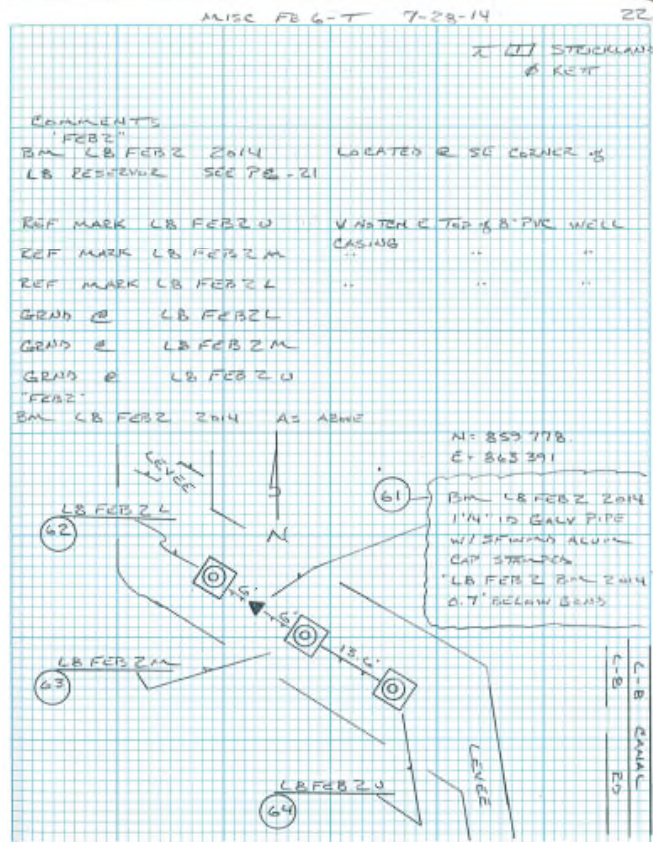
FROM THE INTERSECTION OF THE TURNPIKE ENTRANCE NORTH BOUND AND STATE ROAD 80 (SOUTHERN BLVD) IN WEST PALM BEACH PROCEED WEST ON STATE ROAD 80 12.45 MILES TO THE WEST SIDE OF L8 CANAL. TURN RIGHT AND PROCEED NORTH ALONG THE WEST SIDE OF THE L8 CANAL SHELL ROCK ROADWAY 0.8 MILE. TURN LEFT WEST AND PRECEDE DOWN AND UP THE LEVEE +/- 400 FEET TO WELL SITE L8 FEB 2 AND STATION LOCATION.

THE STATION IS LOCATED 6 FEET SOUTHEAST OF THE NORTHWEST MOST WELL WITH A METAL WITNESS SIGN ATTACHED TO THE 8 INCH WELL CASING. AND 6 FEET NORTHWEST OF THE CENTER WELL. (3 WELLS AT THIS LOCATION). AND 0.7 FEET BELOW GROUND.

THE STATION IS A 1 1/4 INCH ID GALVANIZED PIPE WITH A SFWMD ALUMINUM CAP STAMPED L8 FEB 2 BM 2014. SET IN CONCRETE.

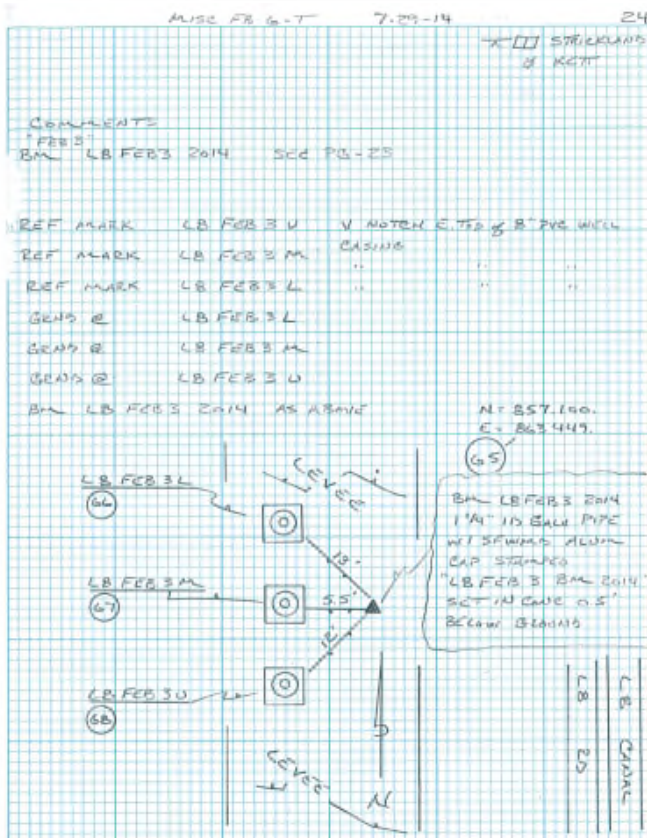
NGS Benchmarks Used: J692 2007

Notable Land marks:





BM L8FEB3		
Rev. 4/08 Rev. 4/01		
COUNTY: PALM BEACH	PROJECT L-8	DESIGNATION: L8FEB3
SECTION 32	TOWNSHIP 43 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE LOXAHATCHEE (1984)		
Established by SFWMD	Recovered by _____ (Surveyor / Firm Name)	
DATE ESTABLISHED: 7/29/2014	FIELD BOOK: MISC 6 T PAGE 23 & 24	
HORIZONTAL DATUM: 1927 (1983) ADJ _____ Other _____ (circle one) ZONE (E) or W		
STATE PLANE COORDINATES	N 857,100	E 863,449
LATITUDE: N DD° MM' SS.S"	LONGITUDE: W DD° MM' SS.S"	
VERTICAL DATUM: MSL 1929 (1988) Other _____ (circle one)	EL. 31.592	
VERTICAL DATUM: MSL (1929) 1988 Other _____ (circle one)	EL.	
CONTROL ACCURACY: HORIZONTAL 1 2 3 (SUB-METER) (circle one) VERTICAL 1 2 (3)		
DESCRIPTION		
<p>To Reach:</p> <p>FROM THE INTERSECTION OF THE TURNPIKE ENTRANCE NORTH BOUND AND STATE ROAD 80 (SOUTHERN BLVD) IN WEST PALM BEACH PROCEED WEST ON STATE ROAD 80 12.45 MILES TO THE WEST SIDE OF L8 CANAL. TURN RIGHT AND PROCEED NORTH ALONG THE WEST SIDE OF THE L8 CANAL SHELL ROCK ROADWAY 0.3 MILE. TURN LEFT WEST AND PRECEDE DOWN AND UP THE LEVEE +/- 350 FEET TO WELL SITE L8 FEB 3 AND STATION LOCATION.</p> <p>STATION IS LOCATED 5.5 FEET EAST OF THE CENTER WELL (OF 3 WELLS) WITH A METAL WITNESS SIGN ATTACHED TO 8 INCH WELL CASING. AND 0.5 FEET BELOW GROUND.</p> <p>THE STATION IS A 1/4 INCH ID GALVANIZED PIPE WITH A SFWMD ALUMINUM CAP STAMPED L8 FEB 3 BM 2014. SET IN CONCRETE.</p> <p>NGS Benchmarks Used: J692 2007</p>		



**BM L8FEB4**

Rev. 4/01

COUNTY PALM BEACH	PROJECT L-8	DESIGNATION <b>L8FEB4</b>
SECTION 17	TOWNSHIP 43 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE LOXAHATCHEE (1984)		
Established by SFWMD	Recovered by _____ (Surveyor / Firm Name)	
DATE ESTABLISHED: 7/21/2014	FIELD BOOK MISC 6 T PAGE 16 & 17	
HORIZONTAL DATUM: 1927 (1983) ADJ _____ Other _____ (circle one) ZONE (E) or W		
STATE PLANE COORDINATES	N 869,534	E 859,736
LATITUDE: N DD° MM' SS.S"	LONGITUDE: W DD° MM' SS.S"	
VERTICAL DATUM: MSL 1929 (1988) Other _____ (circle one)	EL. 18.053	
VERTICAL DATUM: MSL (1929) 1988 Other _____ (circle one)	EL.	
CONTROL ACCURACY: HORIZONTAL 1 2 3 (SUB-METER) (circle one) VERTICAL 1 2 (3)		

**DESCRIPTION**

To Reach:

FROM THE INTERSECTION OF THE TURNPIKE ENTRANCE NORTH BOUND AND STATE ROAD 80 (SOUTHERN BLVD) IN WEST PALM BEACH PROCEED WEST ON STATE ROAD 80 12.45 MILES TO THE WEST SIDE OF L8 CANAL. TURN RIGHT AND PROCEED NORTH ALONG THE WEST SIDE OF THE L8 CANAL SHELL ROCK ROADWAY 3.65 MILE. TURN LEFT WEST AND PRECEDE DOWN AND UP THE LEVEE +/- 350 FEET TO THE TOP OF LEVEE AND CONTINUE WEST 0.7 MILE TO THE WEST SIDE OF THE L8 RESERVOIR TURN LEFT SOUTH ALONG THE TOP OF CONCRETE LEVEE 1.0 MILE TO WELL SITE L8 FEB 4 AND STATION LOCATION ON THE LEFT.

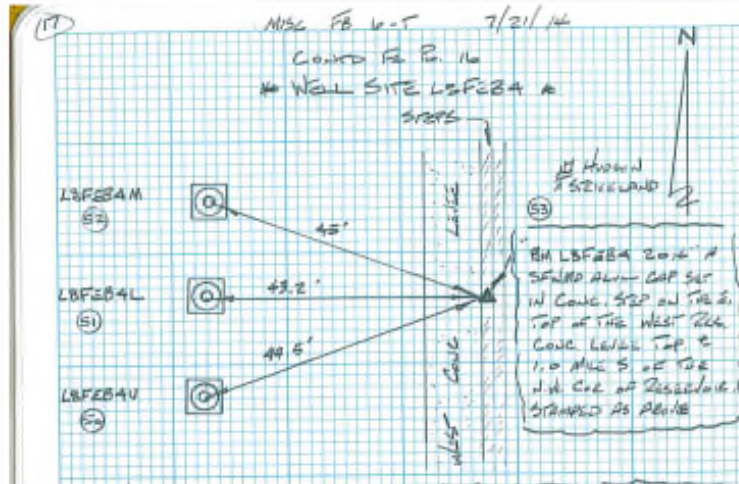
THE STATION IS LOCATED ON THE EAST TOP OF THE CONCRETE STEP OF THE CONCRETE LEVEE HAVING A METAL WITNESS SIGN ATTACHED TO CONCRETE LEVEE. AND 43.2 FEET EAST OF THE CENTER WELL (OF 3 WELLS)

THE STATION IS A 1 ¼ INCH ID GALVANIZED PIPE WITH A SFWMD ALUMINUM CAP STAMPED L8 FEB 4 BM 2014. SET IN CONCRETE.

NGS Benchmarks Used: BM SITE 5

Notable Land marks:

SKETCH



BM L8FEB6		
COUNTY PALM BEACH	PROJECT L-8	DESIGNATION <b>L8FEB6</b>
SECTION _____	TOWNSHIP 43 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE LOXAHATCHEE (1984)		
Established by SFWMD	Recovered by _____ (Surveyor / Firm Name)	
DATE ESTABLISHED: 7/30/2014	FIELD BOOK MISC 6 T PAGE 28 & 29	
HORIZONTAL DATUM: 1927 <b>1983</b> ADJ _____ Other _____ (circle one) ZONE <b>(E)</b> or W		
STATE PLANE COORDINATES	N 869,456	E 865,881
LATITUDE: N DD° MM' SS.S"	LONGITUDE: W DD° MM' SS.S"	
VERTICAL DATUM: MSL 1929 <b>1988</b> Other _____ (circle one)	EL. <b>16.071</b>	
VERTICAL DATUM: MSL <b>1929</b> 1988 Other _____ (circle one)	EL. ft	
CONTROL ACCURACY: HORIZONTAL 1 2 3 <b>(SUB-METER)</b> (circle one) VERTICAL 1 2 <b>(3)</b>		
DESCRIPTION		
<p>To Reach:</p> <p>FROM THE INTERSECTION OF THE TURNPIKE ENTRANCE NORTH BOUND AND STATE ROAD 80 (SOUTHERN BLVD) IN WEST PALM BEACH PROCEED WEST ON STATE ROAD 80 12.35 MILES TO THE EAST SIDE OF L8 CANAL TURN RIGHT AND PROCEED +/- 125 FEET NORTH ALONG THE EAST SIDE OF THE L8 CANAL TO LOCKED METAL GATE. PASS THROUGH GATE AND CONTINUE NORTH 2.65 MILES. TURN RIGHT EAST AND PROCEED DOWN THE LEVEE +/- 150 FEET TO A LOCKED DOUBLE CHAIN LINK FENCE GATE. PASS THROUGH GATE TURN RIGHT SOUTH +/- 75 FEET TURN LEFT EAST AND PROCEED 0.3 MILE ALONG THE SOUTH SIDE OF AN EAST WEST DITCH TO WELL SITE L8 FEB 6 AND STATION LOCATION ON THE LEFT.</p> <p>THE STATION IS LOCATED BETWEEN THE TWO WELLS LOCATED FLUSH WITH THE GROUND. 7 FEET EAST OF THE WEST WELL AND 6 FEET WEST OF THE EAST WELL. 1 FOOT SOUTH OF A CARSONITE WITNESS POST AND 0.4 FEET BELOW GROUND.</p> <p>THE STATION IS A 1 1/4 INCH ID GALVANIZED PIPE WITH A SFWMD ALUMINUM CAP STAMPED L8 FEB 6 BM 2014. SET IN CONCRETE.</p> <p>NGS Benchmarks Used: L8 DIVIDE</p> <p>Notable Land marks:</p>		
SKETCH		
<div style="display: flex; justify-content: space-between;"> <span>MISC FB 6-T</span> <span>7-30-14</span> <span>29</span> </div> <p style="text-align: right;">J.J.J. STECKLANDS &amp; ASSOCIATES</p> <p>CONCATS</p> <p>BM L8 FEB 6 2014 See PG. 28</p> <p>REF MARK L8 FEB 6 E "RF20E" "V. NORTH SIDE RTYR"</p> <p>REF MARK L8 FEB 6 W "RF20W" " " " "</p> <p>GRASS @ L8 FEB 6 W "GR20W"</p> <p>GRASS @ L8 FEB 6 E "GR20E"</p> <p>BM L8 FEB 6 2014 AS ABOVE</p> <p style="text-align: right;">N = 869,456. E = 865,881.</p> <p>DITCH</p> <p>CARSONITE POST</p> <p>20" x 30" CONC PAD W/ 14" ROUND WELLS ACCESS CONC FLUSH W/ GRAVLS</p> <p>74</p> <p>75</p> <p>L8 FEB 6 W PAINT ON CONC "DE 23"</p> <p>L8 FEB 6 E PAINT ON CONC "DE 20"</p> <p>SET BM L8 FEB 6 2014 1 1/4" ID GALV PIPE 36" LONG W/ SFWMD ALUM CAP STAMPED "L8 FEB 6 BM 2014" 0.4" BELOW GRAVLS</p>		

**BM MACKEREL**

COUNTY PALM BEACH	PROJECT L-8	DESIGNATION: <b>MACKEREL</b>
SECTION 20	TOWNSHIP 43 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE LOXAHATCHEE (1984)		
Established by SFWMD	Recovered by SFWMD (Surveyor / Firm Name)	
DATE RECOVERED 7/30/2014	FIELD BOOK MISC 6 T PAGE 28 & 29	
HORIZONTAL DATUM: 1927 (1983) ADJ ____ Other ____ (circle one) ZONE (E) or W		
STATE PLANE COORDINATES	N 869,590.03	E 864,211.541
LATITUDE: N DD° MM' SS.S"	LONGITUDE: W DD° MM' SS.S"	
VERTICAL DATUM: MSL 1929 (1988) Other ____ (circle one)	EL. 23.849 ft	
VERTICAL DATUM: MSL (1929) 1988 Other ____ (circle one)	EL. ft	
CONTROL ACCURACY: HORIZONTAL 1 2 (3) <u>SUB-METER</u> (circle one) VERTICAL 1 2 (3)		

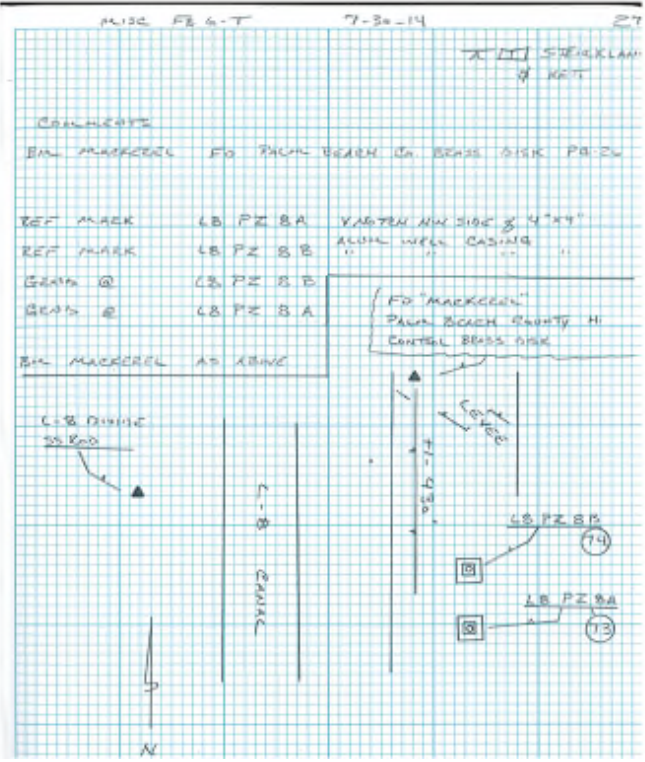
To Reach:

FROM THE INTERSECTION OF THE TURNPIKE ENTRANCE NORTH BOUND AND STATE ROAD 80 (SOUTHERN BLVD) IN WEST PALM BEACH PROCEED WEST ON STATE ROAD 80 12.35 MILES TO THE EAST SIDE OF L8 CANAL. TURN RIGHT AND PROCEED +/- 125 FEET NORTH ALONG THE EAST SIDE OF THE L8 CANAL TO LOCKED METAL GATE. PASS THROUGH GATE AND CONTINUE NORTH 2.65 MILES. TO WELL SITE L8 PZ 8 (TWO WELLS) AND THE STATION LOCATION IS 430 FEET NORTH OF THE WELL SITE.

THE STATION IS LOCATED 12 FEET EAST OF A PALM BEACH COUNTY METAL WITNESS POST AND SIGN. AND 430 FEET NORTH OF WELL SITE L8 PZ 8.

THE STATION IS A PALM BEACH COUNTY GEODETIC SURVEY BRASS DISK FOUND IN CONCRETE. STAMPED MACKEREL

NGS Benchmarks Used: L8 DIVIDE



BM TUNA

COUNTY PALM BEACH	PROJECT L-8	DESIGNATION TUNA
SECTION 16	TOWNSHIP 43 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE LOXAHATCHEE (1984)		
Established by SFWMD	Recovered by SFWMD (Surveyor / Firm Name)	
DATE RECOVERED: 7/30/2014	FIELD BOOK: MISC 6 T PAGE 28 & 29	
HORIZONTAL DATUM: 1927 1983 ADJ Other (circle one)	ZONE E or W	
STATE PLANE COORDINATES	N 869,436.28	E 867,062.76
LATITUDE: N DD° MM' SS.S"	LONGITUDE: W DD° MM' SS.S"	
VERTICAL DATUM: MSL 1929 1988 Other (circle one)	EL. 16.26 ft	
VERTICAL DATUM: MSL 1929 1988 Other (circle one)	EL. ft	
CONTROL ACCURACY: HORIZONTAL 1 2 3 SUB-METER (circle one) VERTICAL 1 2 3		

To Reach:

FROM THE INTERSECTION OF THE TURNPIKE ENTRANCE NORTH BOUND AND STATE ROAD 80 (SOUTHERN BLVD) IN WEST PALM BEACH PROCEED WEST ON STATE ROAD 80 12.35 MILES TO THE EAST SIDE OF L8 CANAL. TURN RIGHT AND PROCEED +/- 125 FEET NORTH ALONG THE EAST SIDE OF THE L8 CANAL TO LOCKED METAL GATE. PASS THROUGH GATE AND CONTINUE NORTH 2.65 MILES. TURN RIGHT EAST AND PROCEED DOWN THE LEVEE +/- 150 FEET TO A LOCKED DOUBLE CHAIN LINK FENCE GATE. PASS THROUGH GATE TURN RIGHT SOUTH +/- 75 FEET TURN LEFT EAST AND PROCEED 0.45 MILE ALONG THE SOUTH SIDE OF AN EAST WEST DITCH TO WELL SITE L8 FEB 7 (TWO WELLS FLUSH WITH GROUND) AND THE STATION LOCATION IS 175 FEET EAST OF THE WELL SITE.

THE STATION IS LOCATED 27 FEET NORTH OF A PALM BEACH COUNTY METAL WITNESS POST NAILED TO A CYPRESS TREE. AND 175 EAST OF WELL SITE L8 FEB 7.

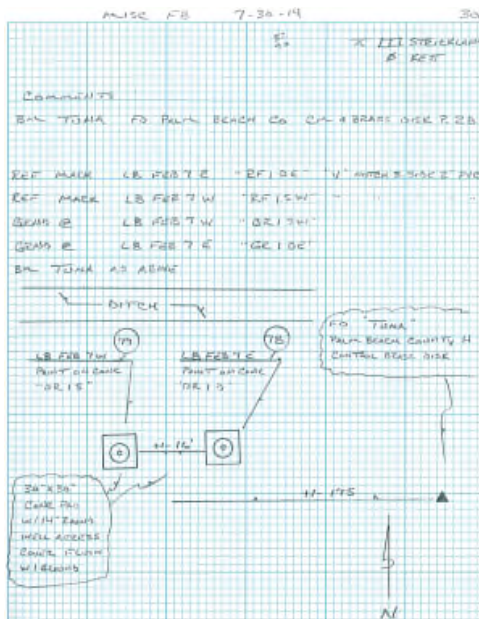
THE STATION IS A PALM BEACH COUNTY GEODETIC SURVEY BRASS DISK FOUND IN CONCRETE. STAMPED TUNA

DESCRIBED BY ADR GEODETIC SERVICES 1991

TO REACH THE STATION FROM THE INTERSECTION OF SOUTHERN BOULEVARD, (STATE ROUTE 80, US ROUTE 98, US ROUTE 441 TO THE WEST) AND STATE ROUTE 7 (US ROUTE 441 TO THE SOUTH), GO WEST ON SOUTHERN BOULEVARD FOR 7.5 MI (12.07 KM) TO LION COUNTRY SAFARI ROAD. TURN RIGHT AND GO NORTH ON LION COUNTRY SAFARI ROAD FOR 1.7 MI (2.74 KM) TO DOE DRIVE. TURN LEFT AND GO WEST ON DOE DRIVE FOR 0.5 MI (0.80 KM). BEAR RIGHT AND CONTINUE NORTHWEST ON DOE DRIVE FOR 0.35 MI (0.56 KM). BEAR RIGHT AND CONTINUE NORTH ON DOE DRIVE FOR 0.35 MI (0.56 KM) TO DEER RUN BOULEVARD. TURN LEFT AND GO WEST ON DEER RUN BOULEVARD FOR 1.3 MI (2.09 KM) TO DEER RUN TRAIL. TURN RIGHT AND GO 0.5 MI (0.80 KM) NORTH ON DEER RUN TRAIL TO THE END OF THE ROAD AND THE STATION 30 FEET SOUTH OF THE SOUTH EDGE OF A CANAL.

THE STATION IS NORTHEAST 38.21 FT (11.65 M) FROM A PK AND WASHER IN THE NORTH FACE OF A 6 INCH CYPRESS TREE, NORTHWEST 68.21 FT (20.79 M) FROM A NAIL AND TIN TAB IN A CYPRESS TREE, AND NORTH 36.21 FT (11.04 M) FROM A NAIL AND TIN TAB 3 FEET UP THE EAST SIDE OF A 20 INCH CYPRESS TREE. THE STATION IS 1.8 FT (0.55 M) NORTH OF A PALM BEACH COUNTY SURVEY WITNESS SIGN AND POST.

NGS Benchmarks Used: L8 DIVIDE



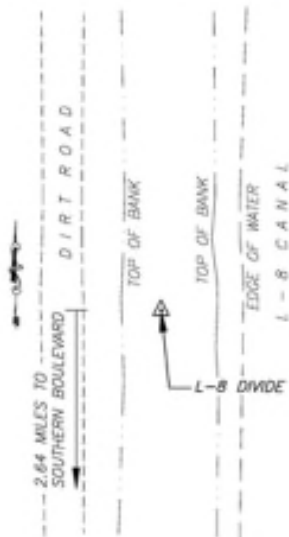
## BM L-8 DIVIDE

COUNTY <b>Palm Beach</b>	PROJECT <b>L-8 Divide - 1</b>	DESIGNATION <b>L-8 Divide</b>
SECTION <b>20</b>	TOWNSHIP <b>43 SOUTH</b>	RANGE <b>40 EAST</b>
NAME OF QUADRANGLE <b>Loxahatchee</b>		
Established by <b>Zeman, PSM #5655</b>		Recovered by <b>Wantman Group, Inc.</b>
DATE <b>01-28-13</b> (Established or Recovered)	FIELD BOOK <b>451</b>	PAGE <b>29</b>
HORIZONTAL DATUM: 1927 (1983) ADJ _____ OTHER _____ (circle one) ZONE (E) or W		
STATE PLANE COORDINATES:		N <b>869282.7917</b> ft      E <b>863925.9031</b> ft
LATITUDE: N <b>26°43'25.5729"</b>		LONGITUDE: W (-) <b>80°21'48.6654"</b>
VERTICAL DATUM: MSL 1929    1988    Other _____ (circle one)		
VERTICAL DATUM: MSL 1929    (1988)    Other _____ (circle one)		<b>15.20 EL. ft</b>
CONTROL ACCURACY: HORIZONTAL 1 2 (3) <b>SUB-METER</b> (circle one) VERTICAL 1 2 (3)		

### DESCRIPTION

To Reach: From the intersection State Road 7 / U.S. 441 and State Road 80 (Southern Boulevard) proceed West for 10.00 miles. Turn right on the Westerly dirt access road for Levee L-8, passing through a SFWMD gate, for 2.64 miles to the bench mark on the right. Bench mark is an NGS Class "B" rod mark driven to refusal. Rod is set in a magnesium collar with lid stamped "L-8 Divide".

NGS Vertical Points: "L 692" & "K 692"



**SPECIFIC PURPOSE SURVEY SURVEYOR'S REPORT  
TO ESTABLISH ELEVATIONS AT SPECIFIC  
WELL SITES ADJACENT TO THE L-8**

**TASK**

Establish a temporary measuring point on top of well sites L8FEB1, L8FEB2, L8FEB3, L8FEB4, L8FEB5, L8FEB6, L8FEB7, L8PZ5 and L8PZ8 adjacent to the L-8. Establish a GPS coordinate at each site. The wells are located in Sections 16, 17, 18, 29 & 32, Township 43 South, Range 40 East; Palm Beach County, FL. The SCADA (Supervisory Control and Data Acquisition) Section be installing platforms (as needed) in the near future; the Survey Section will return to establish a Reference Elevation and leave a stamped brass tag at each well.

**METHODOLOGY**

Elevations shown hereon are based on the North American Vertical Datum of 1988 (NAVD88). A permanent benchmark was recovered or set at each site. Conventional leveling was used to establish elevations. Coordinates were established using Real Time Kinematic (RTK) Global Positioning System (GPS). A description sheet for each benchmark is included in this report.

**FIELD STAFF**

Ned Strickland, Survey Specialist 2  
Ronnie Hudson, Survey Specialist 2  
Ryan Kett, Survey Specialist 2

**SURVEYOR'S NOTES**

1. Field work was performed on July 21, 24, 28, 29 and 30th, 2014. Field Notes are in SFWMD MISC Field Book #6-T.
2. Benchmark Description Sheets for this survey are attached hereon.
3. This survey utilized third order differential leveling procedures. Equipment: Trimble DiNi Digital Level and Bar Coded Rods.
4. Coordinates shown hereon are Florida State Plane, East Zone, North American Datum of 1983.
5. GPS receivers: Topcon Hiper GA; Base Station: Florida Department of Transportation tower network.
6. Data Collector: Spectra Precision Ranger 3L; Data Collector File: L8WELLS.RAW
7. To convert from NAVD88 to NGVD29, add 1.46.
8. All measurements are in U.S. Survey feet and decimal parts thereof.

**CERTIFICATION**

This certification is made to the South Florida Water Management District for the specific purpose of establishing elevations at the above-listed well sites as requested by Greg Coffelt, South Florida Water Management District. No responsibility or liability is assumed by the undersigned surveyor and mapper for use of this survey for any other purpose other than stated above or for any use by any person or entity other than the South Florida Water Management District.

I hereby certify that this specific purpose survey was made under my responsible charge and meets the applicable minimum technical standards for surveys as set forth by the Florida Board of Surveyors & Mappers, Chapter 5J-17.051, Florida Administrative Code, pursuant to Section 472.027, Florida State Statutes.

\_\_\_\_\_  
Michael K Horan Sr.      Date  
Professional Surveyor & Mapper  
Florida Certification Number 5494

SEC 17, 20, 29 TWP 43 RGE 40

ESTAB BM, REF ELEV, GROUND ELEV, & HORIZ  
COORDS & WELL LOCATIONS AROUND THE L-3 RESERVOIR  
AS PER INST.

REF:

1. INSTRUCTIONS SHEET
2. GIS MAP W/ WELL LOCATIONS
3. L-3 RESERVOIR TOP SURVEY BY WSM
4. Bm DASH SHEETS

ESTAB HORIZ CONTROL & WELLS W/ FLUOR NETWORK  
RTK LOCATIONS

FILE L3RESWELLS

BASE: DOT TOWNSHIP

Point # 2 CURR. I692 N: 0.028' E: 0.136' VERT: 0.378'

50, 52	L3FEB4 WELL LOCATIONS	} SEE SHEET Pg. 17
53	Bm L3FEB4	

7/24/14

Point # 3 CURR. Bm L3FE#6 (R#21)

54	L3FEB5M	WELL LOCATIONS	} SEE SHEET Pg. 17
55	L3FEB5U	" "	
56	L3FEB5L	" "	



CONTD FR Pg. 15  
ESTAB VERT CONTROL

LBFE24 WELL SITE

FILE: LBFE34

STA/P.No.	ELEV	Bm
1		21.57 [387]
9	18.053'	18.053
17-1	21.571	21.57
	END LEVEL LOOP ESTAB SITE ELEV	
9		18.053
13	18.656	
17	18.675	
20	18.704	
21	15.165	
22	15.304	
23	15.267	
24	18.053	18.053

PHD HUDSON  
T BRACKEN

LEVEL: D.I.N.I. w/BSP ROSS

COMMENTS

Bm SITE 5, RECOVERED IN GOOD COND. PER WSM SURVEY.

" Bm LBFE24" A SEWARD ALUM CAP SET IN THE E. TOP OF THE CONC. LEVEL TOP. 43.2' E. OF THE CENTER WELL @ LBFE24. STAMPED "LBFE24 Bm 2014" w/CENTER POINT.

Bm SITE 5 ABOVE

Bm LBFE24 2014

V NOTCH ON E. TOP OF 3" PVC JUMP PIPE. (SOUTH WELL) #40

" " " " " " (CENTER WELL) #41

" " " " " " (NORTH WELL) #42

GRID ELEV @ NORTH WELL

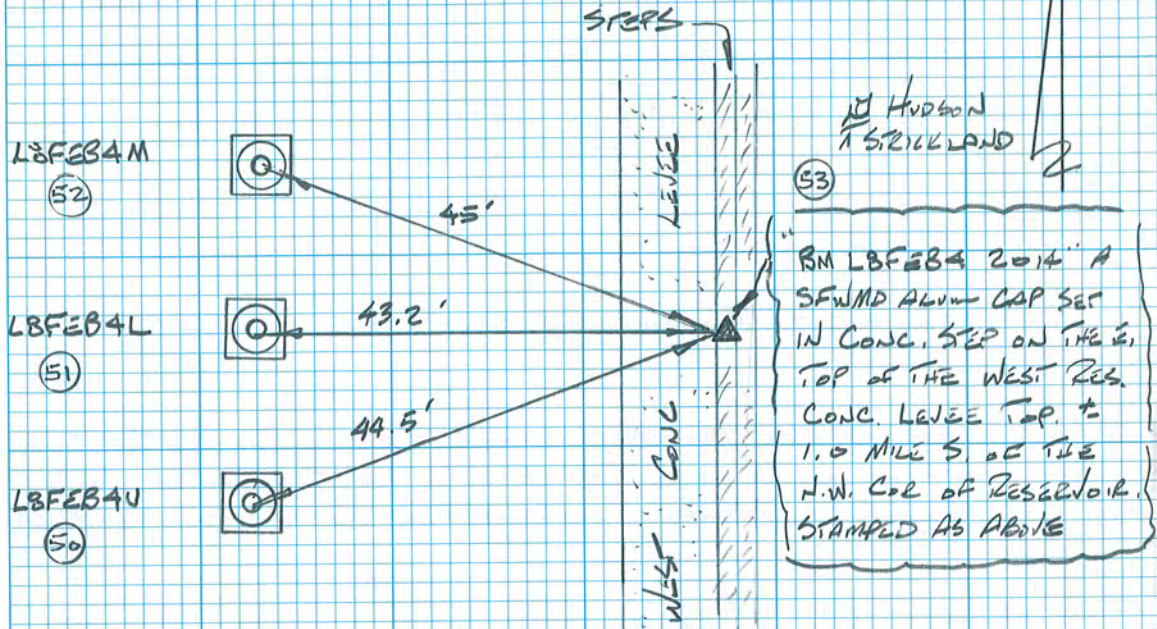
" " " CENTER WELL

" " " SOUTH WELL

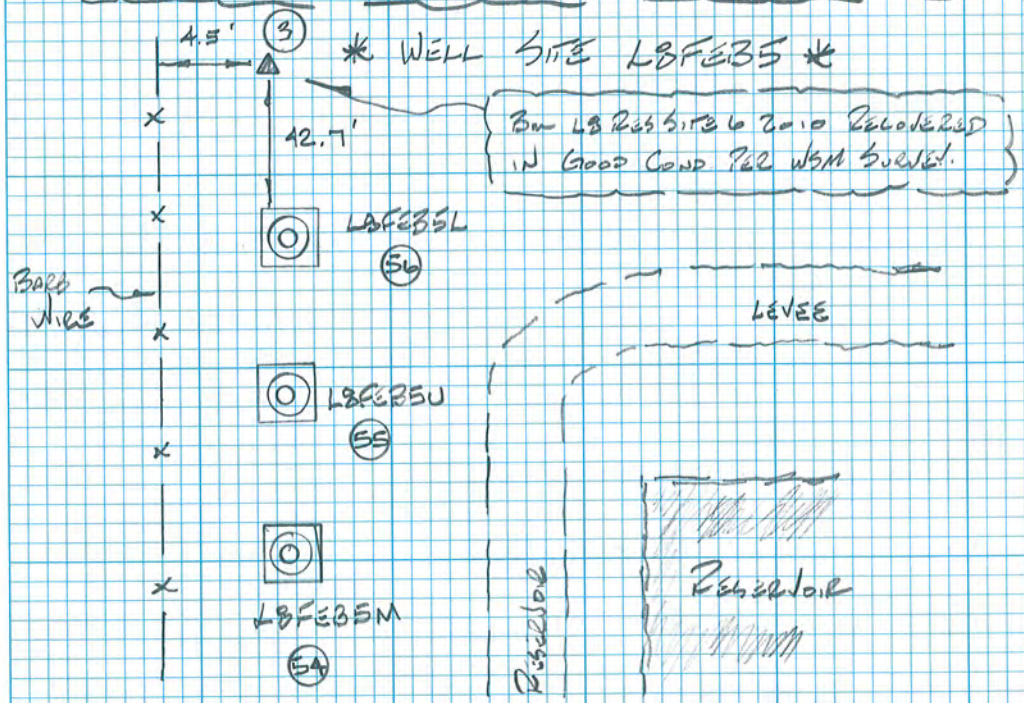
Bm ABOVE

CONTD FB P. 16

\* WELL SITE LBFEB4 \*



\* WELL SITE LBFEB5 \*



CONTO FB. Pg. 17

LBFEB5 WELL SITE

FILE: LBFEB5

STA / P#

ELEV

Bm

1			15.74 [38]
2		18.954	
3		18.57	
4		18.458	
5		15.023	
6		15.261	
7		15.488	
8		15.74	15.74

END LBFEB5 WELLS

SKETCH and Pg. 17

PHI HUDSON  
AT SPRINGLAND

Comments

LBFEB5 SITE 6 2010 Pg. 17

" LBFEB5L " V. NOTED IN E. TOP OF 8" PVC WELL CASING.

LBFEB5U " " " " " " "

LBFEB5M " " " " " "

LBFEB5M GROUND ELEV.

LBFEB5U " "

LBFEB5L " "

Bm ABOVE E2202 0.00'

SEC 8, 17 TWP 43 RGE 40

CONT'D FROM PG-18

\* WELL SITE LB FEB 1 \*

FILED LB FEB 1

STA / PTH	ELEV.	BM EL
-----------	-------	-------

1		23.71 (NAVD 88)
---	--	--------------------

6	29.822	29.821 ADJ NAVD 88
---	--------	--------------------------

11	23.711	23.71
----	--------	-------

ZOVER @ 4 CKPT J 692 N-0.001 E-0.151 VERT -0.619

57	LB FEB 1 BM 2014	} SEE SKETCH PG-25
58	LB FEB 1 L WELL LOCATIONS	
59	LB FEB 1 M " "	
60	LB FEB 1 U " "	

EA USES TRIMBLE DINI LEVEL & BAR CODE RODS

STRICKLAND & KETT

COMMENTS

BM M 692 2007 SS ROD

"FEB 1" LB FEB 1

BM LB FEB 1 2014 SET SFWMS ALUM CAP & 1 1/4" ID GALV PIPE IN CONC STAMPED "LB FEB 1 BM 2014" 3.7' EAST OF THE CENTER WELL CASING HAVING A METAL WITNESS SIGN ATTACHED TO 8" CASING & 0.5' BELOW GROUND

BM M 692 2007 SS ROD AS ABOVE

SEC	17	TWP	43	RGE	40
		CONT'D FROM P. 19			
	LB FEB 1	REF	ELEV'S		
STA / PTA			EL		BM ELEV
6			29.822 (NAVD 88)		29.821 ADJ NAVD 88
12			33.722		
13			33.811		
14			33.936		
15			30.605		
16			30.364		
17			30.312		
18			29.822		

## COMMENTS

"FEB 1"

BM LB FEB 1 2014

LOCATED @ NE CORNER of

LB RESERVOIR

REF MARK LB FEB 1 U

V NOTCH E. TOP of 3" PVC WELL CASING

REF MARK LB FEB 1 M

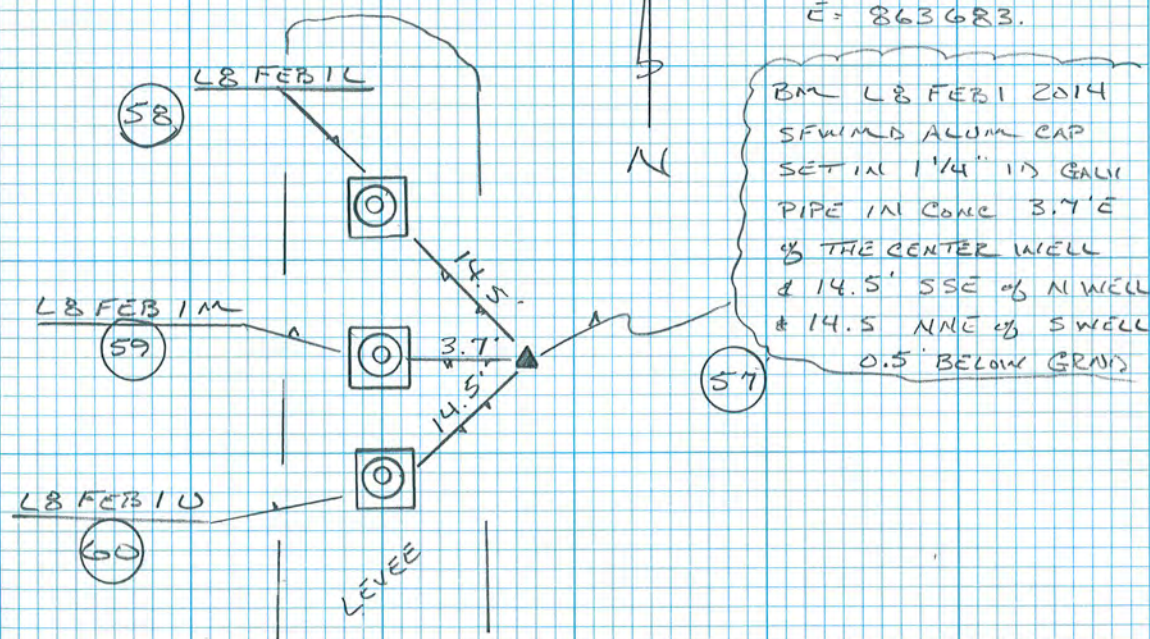
REF MARK LB FEB 1 C

GRND @ LB FEB 1 L

GRND @ LB FEB 1 M

GRND @ LB FEB 1 U

BM LB FEB 1 2014



SEC	TWP	RGE	40
29	43		
CONT'D FROM P-20			
* WELL SITE L8 FEBZ *			
FILE #	STA/PT#	EL	BM EL
	1		21.75 (NAVD 88)
	4	28.747	28.75 ADJ NAVD 88
	7	21.744	21.75

Ø III STEICKLANDS  
K KET

## COMMENTS

BM J 692 2007 SS RODS

"FEBZ"

BM L8 FEBZ 2014 SET 1 1/4" ID GALV PIPE w/ SFIRMS ALUM CAP STAMPED "L8 FEBZ BM 2014" 0.7' BELOW GROUND IN CONC. & 6' SE of FEBZ L WELL CASING w/ METAL WITNESS SIGN ATTACHED

BM J 692 2007 SS RODS AS ABOVE

SEC	TWP	RGE	40
29	43		
CONT'D FROM P-21			
L8 FEB 2 REF ELEV'S			
STA/PT#	EL	BM EL	
4	28.747	28.75	ADJ NAD88
8	32.768		
9	33.891		
10	32.993		
11	29.461		
12	29.594		
13	29.350		
14	28.748		

ROVER @

61	L8 FEB 2 BM 2014			
62	L8 FEB 2 L	WELL LOCATIONS	} SEE SKETCH	
63	L8 FEB 2 M	" "		
64	L8 FEB 2 U	" "		
5	CK PT J 692	N 0.006 E - 0.082	VERT - 0.701	

STUCKLAND  
KETT

COMMENTS

"FEB 2"  
BM L8 FEB 2 2014 LOCATED @ SE CORNER of  
L8 RESERVOIR SEE PC-21

REF MARK L8 FEB 2 U V NOTCH E. TOP of 8" PVC WELL

REF MARK L8 FEB 2 M " " "

REF MARK L8 FEB 2 L " " "

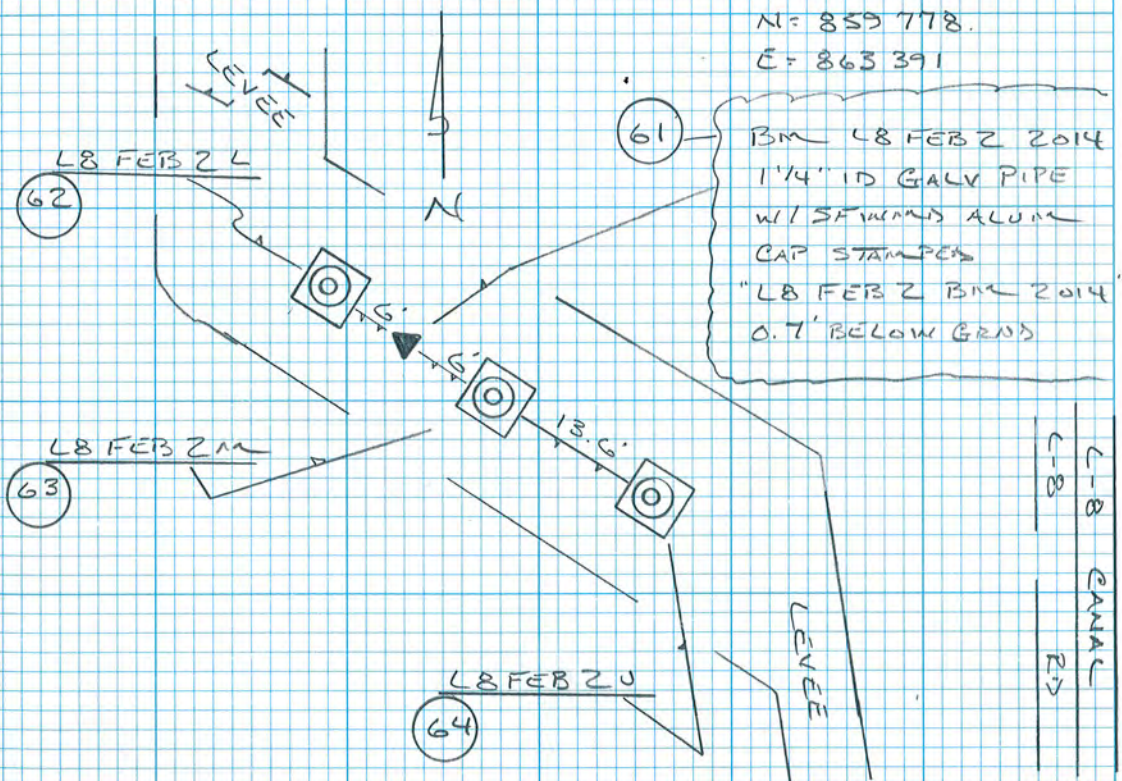
GRND @ L8 FEB 2 L

GRND @ L8 FEB 2 M

GRND @ L8 FEB 2 U

"FEB 2"

BM L8 FEB 2 2014 AS ABOVE



SEC	29,32	TWP	43	RGE	40
LINE #3					
FILE#	L8 FEB2				
STA/PT#		EL		BM EL	
BM	4	28.747		28.75	
				ADJ	
				NAVD 88	
"FEB3"					
BM	156	31.59		31.592	
				ADJ	
				NAVD 88	
"FEB2"					
BM	4/63	28.749			

EQ USED DINI LEVEL & BAR CODE RODS  
START W/ PT 4 & TP # 50

STRICKLAND  
Ø KETI

## COMMENTS

"FEB2"  
BM L8 FEB2 2014 SEE PG-21 & 22

## "FEB3"

BM L8 FEB3 2014 SET 1 1/4" ID GALV PIPE W/ SFWMS  
ALUM CAP STAMPED "L8 FEB3 BM 2014" 0.5' BELOW  
GRND SET IN CONC & 5.5' E. OF FEB3M HAVING A METAL  
WITNESS SIGN ATTACH

BM L8 FEB2 2014 AS ABOVE



STRICKLAND & KETT

SEC	32	TWP	43	RGE	40
		CONT'D FROM P-23			
	LB FEB 3	REF	ELEV'S		
STA / PTH			EL		BM EL
"FEB 3"					
BM 56			31.59		31.592
					ADJ
					NAVD 88
64			35.747		
65			35.713		
66			36.019		
67			32.55		
68			32.195		
69			32.237		
70			31.589		

7-28-14  
ROVER @

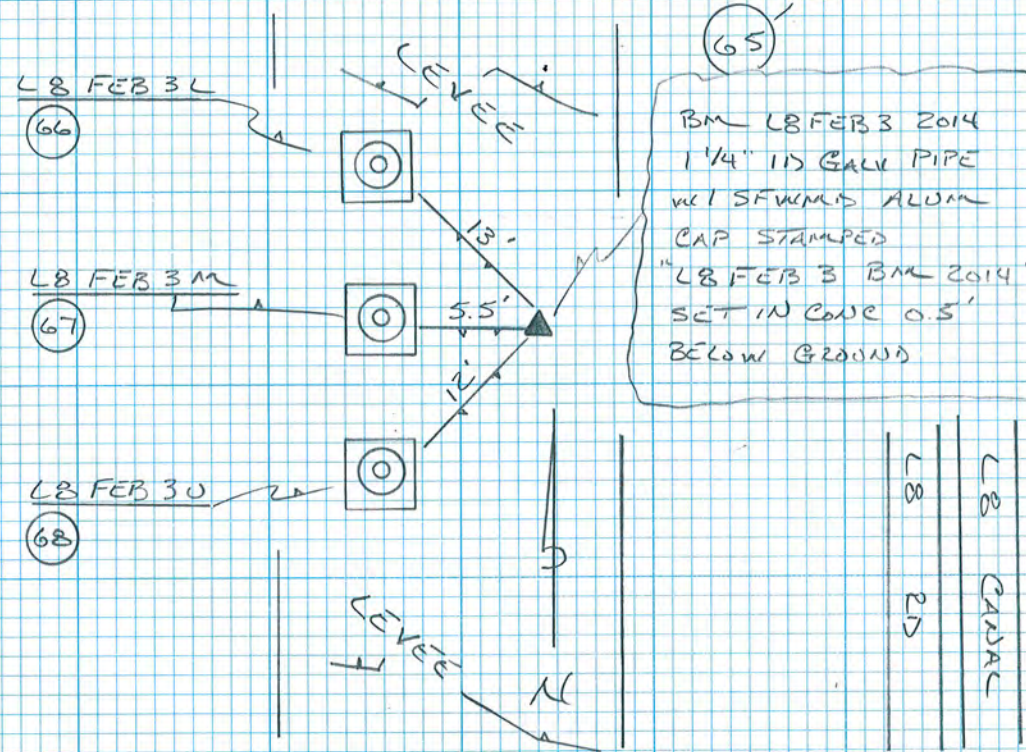
65	LB FEB 3	BM 2014			} SEE SKETCH
66	LB FEB 3 L	WELL LOCATIONS			
67	LB FEB 3 M	"	"	"	
68	LB FEB 3 U	"	"	"	

COMMENTS

"FEB 3"  
BM LB FEB 3 2014 SEE PG-23

REF MARK	LB FEB 3 U	V NOTCH C. TOP of 8" PVC WELL CASING
REF MARK	LB FEB 3 M	" " "
REF MARK	LB FEB 3 L	" " "
GRND @	LB FEB 3 L	
GRND @	LB FEB 3 M	
GRND @	LB FEB 3 U	
BM	LB FEB 3 2014	AS ABOVE

N = 857.100.  
E = 863.449.



LB	CASUAL
LB	RD

SEC	ZO	TWP	43	RGE	40
CONT'D FROM P-24					
FILE #	L8PZ5	L8PZ5	REF	EL	
STA / PT #		EL		BM EL	
1				15.20	NAVD 88
2		22.973			
3		23.055			
4		23.141			
5		23.020			
6		20.788			
7		20.75			
8		20.673			
9		20.619			

10 15.201 15.20

7-30-14  
ROVER @

CK PT	J 692	N: -0.061	E: -0.111	VERT -0.794
69	L8 PZ 5A	WELL LOCATIONS		} SEE SKETCH
70	L8 PZ 5B	"	"	
71	L8 PZ 5C	"	"	
72	L8 PZ 5D	"	"	

EQ USED TRIMBLE DINI LEVEL & BARCODE ROD

STRICKLAND  
& KETT

COMMENTS

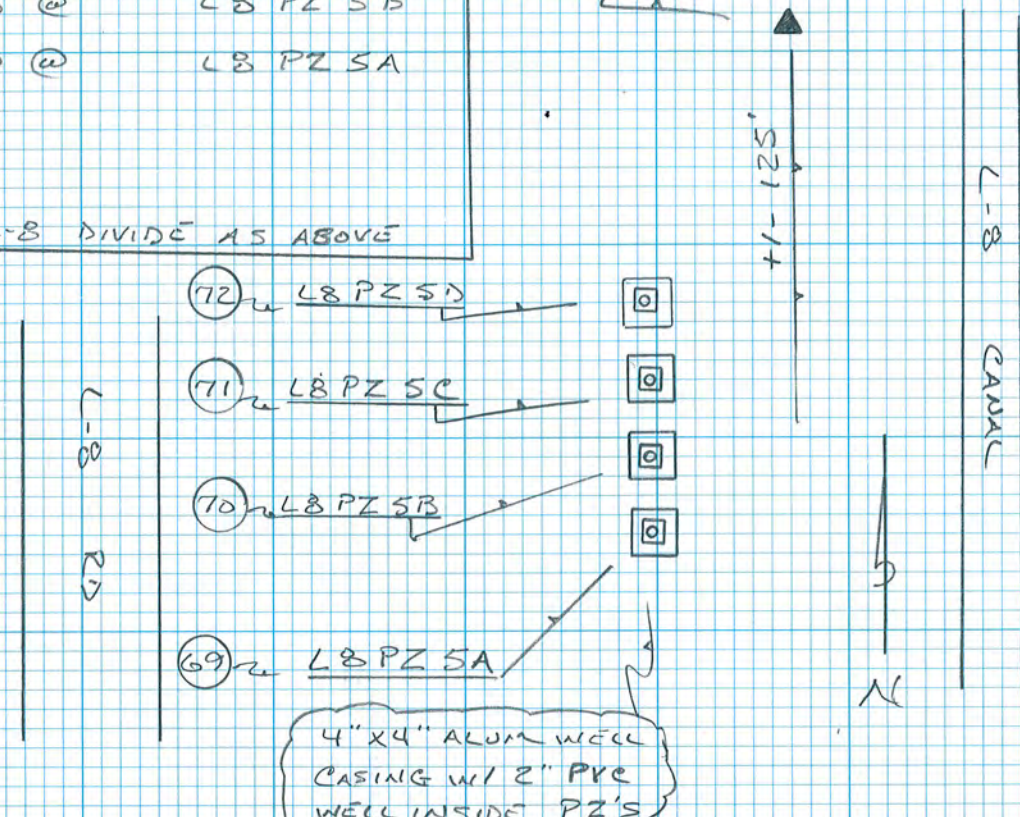
BM L-8 DIVIDE FD SS ROD IN ALUM CASING  
2.64 MI. N. of SR 80 ALONG L-8 CANAL WEST SIDE

REF MARK	L8 PZ 5A	V NOTCH NW SIDE of 4"x4" ALUM WELL CASING
REF MARK	L8 PZ 5B	" " " "
REF MARK	L8 PZ 5C	" " " "
REF MARK	L8 PZ 5D	" " " "

GRND @	L8 PZ 5D
GRND @	L8 PZ 5C
GRND @	L8 PZ 5B
GRND @	L8 PZ 5A

BM L-8 DIVIDE GOOD COND  
FD SS ROD IN ALUM CASING

BM L-8 DIVIDE AS ABOVE



SEC	20	TWP	43	RGE	40
FILE #	L8 PZ8	CONT'D	FROM P-25		
STA / PT#		EL		BM EL	
	1			15.20	(NAVD 88)
	3		23.848	23.849	ADJ NAVD 88
	5		15.199	15.20	

EQ USED DINI LEVEL &amp; BAR CODE RODS

A III STRICKLAND  
Ø KEA

## COMMENTS

BM L-8 DIVIDE FID SS ROD AS PER PG-25

"MACKEREL"

BM MACKEREL FID PALM BEACH COUNTY  
GEODETIC SURVEY BRASS DISK STAMPED "MACKEREL"

BM L-8 DIVIDE AS ABOVE

SEC 20 TWP 43 RGE 40

CONT'D FROM PG-26

LB PZ 8 REF EL

STA/PT#	EL	BM EL
3	23.848	23.849 ADJ NAVIS 88
6	26.833	
7	26.712	
8	24.138	
9	24.320	
10/3	23.848	

ROVER @

73	LB PZ 8A	WELL LOCATION	} SEE SKETCH LA
74	LB PZ 8B	" "	

STEICKLAN'S  
of KETL

COMMENTS

BM MACKEREL FD PALM BEACH CO. BRASS DISK PG-26

REF MARK LB PZ 8A VNOTCH NW SIDE of 4"x4"

REF MARK LB PZ 8B ALUM WELL CASING " " " "

GRND @ LB PZ 8B

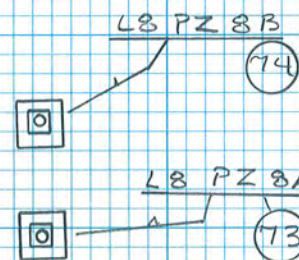
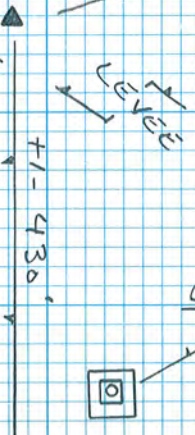
GRND @ LB PZ 8A

BM MACKEREL AS ABOVE

FD "MACKEREL"  
PALM BEACH COUNTY HI  
CONTROL BRASS DISK

L-8 DIVIDE  
SS ROD

L-8 CAWAL



SEC	16,20	TWP	43	RGE	40
CONT'D FROM PG-27					
LINE#	ESTABLISH SITE BM'S @ LB FEB 6 & 7				
STA / PT#		EL		BM EL	
3		23.848		23.849 ADJ NAVD88	
19		16.073		16.071 ADJ NAVD88	
22		16.264		16.26	
30		23.858		23.849 ADJ	

EQ USED DINA LEVEL &amp; BAR CODE RODS

START W/3 &amp; TP# 15

 STRICKLAND  
 KETT

## COMMENTS

BM MACKEREL FD PALM BEACH CO CM &amp; BRASS DISK

"FEB6"

BM LB FEB 6 2014 SET 1 1/4" X 36" LONG ID GALV PIPE  
 W/ SFWIND ALUM CAP STAMPED "LB FEB 6 BM 2014" IN CONE  
 6' W of THE EAST WELL & 7' E of WEST WELL & 1' SOUTH of  
 A CARBONITE WITNESS POST @ TOP of SLOPE of DITCH

BM TUNA FD PALM BEACH COUNTY GEODETIC SURVEY  
 BRASS DISK STAMPED "TUNA"

BM MACKEREL AS ABOVE

SEC 16

TWP 43

R&E

40

CONT'D FROM PG-28  
L8 FEB 6 REF EL'S

STA / PT#

EL

BM EL

19

16.073

16.071

ADJ  
NAVD 88

40

16.159

41

15.863

42

16.365

43

16.425

44

16.072

16.071

ADJ  
NAVD 88

ROWER @

75

L8 FEB 6 E

WELL LOC. } SEE

SKETCH

76

L8 FEB 6 W

" " }

SKETCH

77

L8 FEB 6 2014 BM

STEICKLAND'S  
Ø KETI

COMMENTS

BM L8 FEB 6 2014 SEE PG-28

REF MARK L8 FEB 6 E "RF2DE" "V" NOTCH S. SIDE 2" PVC

REF MARK L8 FEB 6 W "RF2SW" " " " "

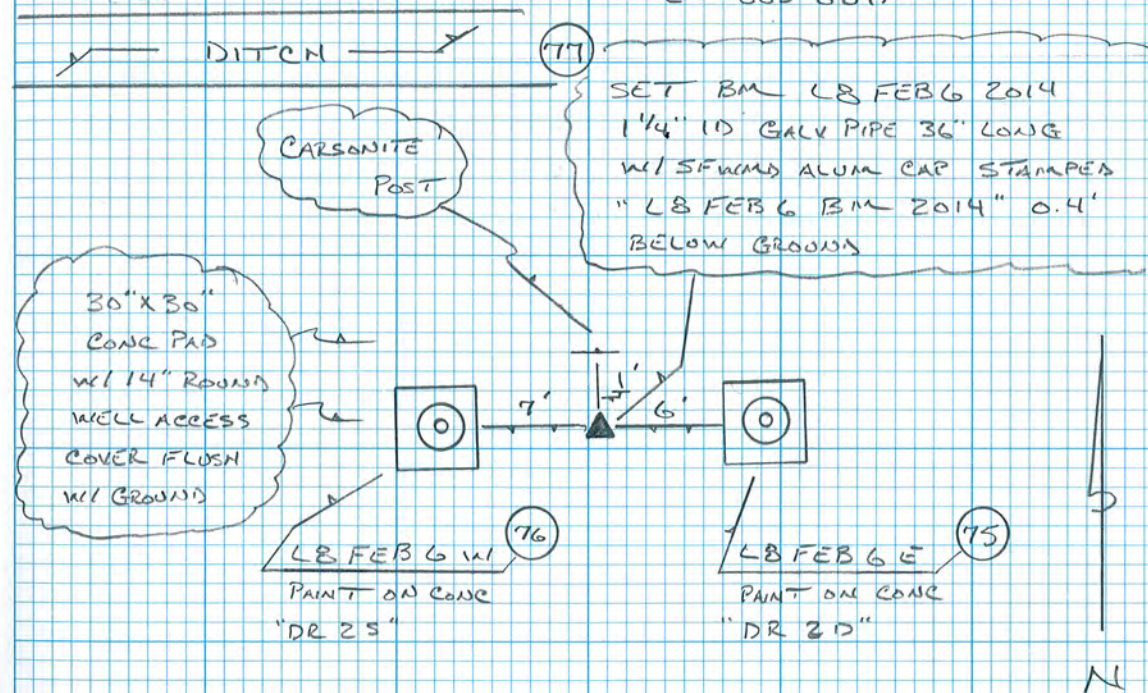
GRND @ L8 FEB 6 W "GR2SW"

GRND @ L8 FEB 6 E "GR2DE"

BM L8 FEB 6 2014 AS ABOVE

N = 869 456.

E = 865 881.



SEC	16	TWP	43	RGE	40
		CONT'D FROM PG-29			
		LB FEB 7 REF EL			
STA / PT#		EL		BM EL	
22		16.264		16.26	ADJ NAVD 88
50		14.948			
51		14.787			
52		15.122			
53		15.318			
54		16.264		16.26	ADJ NAVD 88

ROVER @

78	LB FEB 7 E	WELL LOCATION	} SEE SKETCH
79	LB FEB 7 W	" "	
7	CK PT J 692	N-0.046 E-0.185 VERT 6.153	

82  
90

STRICKLANDS  
& KETT

COMMENTS

BM TUNA FD PALM BEACH CO. CM & BRASS DISK P. 28

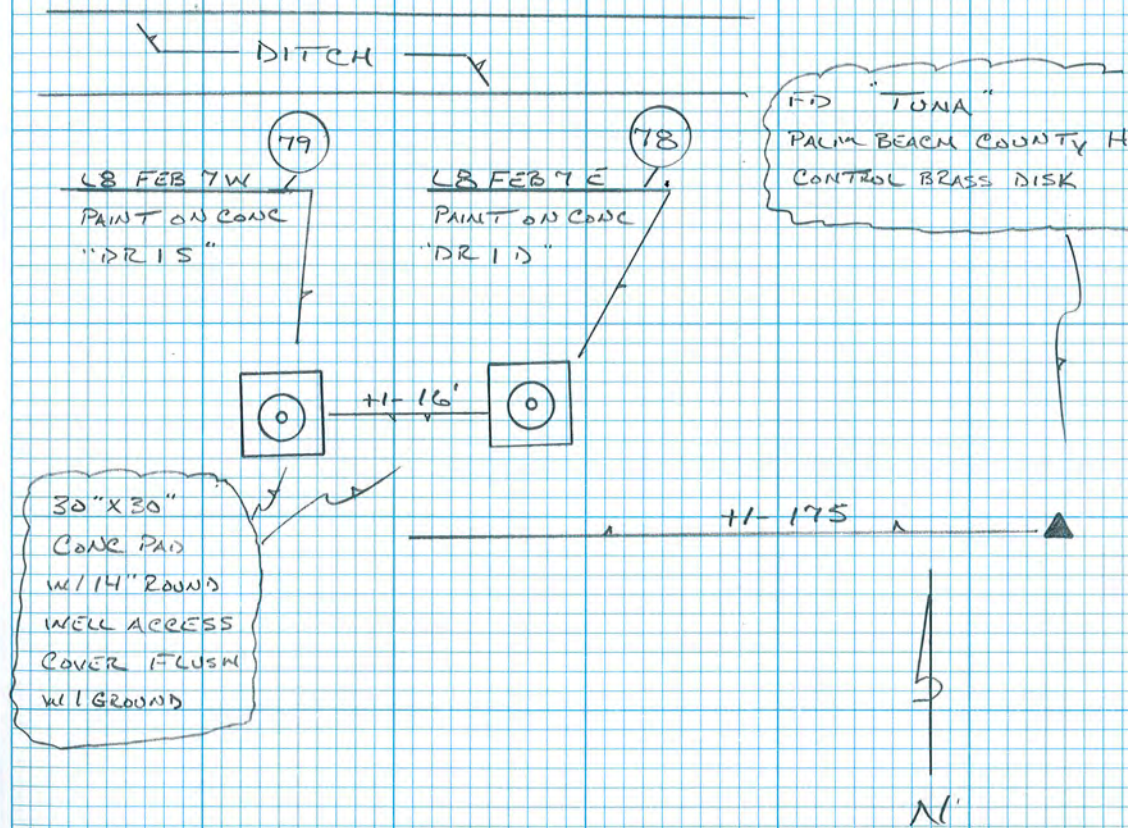
REF MARK LB FEB 7 E "RFIDE" "V" NOTCH S. SIDE 2" PVC

REF MARK LB FEB 7 W "RFISW" " " " " " "

GRND @ LB FEB 7 W "GRISW"

GRND @ LB FEB 7 E "GRIDE"

BM TUNA AS ABOVE





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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<b>COUNTY:</b> PALM BEACH		<b>PROJECT:</b> L-8	<b>DESIGNATION:</b> L8FEB1
<b>SECTION</b> 17		<b>TOWNSHIP:</b> 43 SOUTH	<b>RANGE:</b> 40 EAST
<b>NAME OF QUADRANGLE</b> LOXAHATCHEE (1984)			
<b>Established by:</b> SFWMD		<b>Recovered by</b> _____ (Surveyor / Firm Name)	
<b>DATE ESTABLISHED:</b> 7/28/2014		<b>FIELD BOOK</b> MISC 6 T PAGE 19 & 20	
<b>HORIZONTAL DATUM:</b> 1927 <u>1983</u> ADJ ____ <b>Other</b> ____ (circle one) ZONE <u>E</u> or W			
<b>STATE PLANE COORDINATES</b>		N <u>874,790</u>	E <u>863,683</u>
<b>LATITUDE:</b> N <i>DD° MM' SS.S"</i>		<b>LONGITUDE:</b> W <i>DD° MM' SS.S"</i>	
<b>VERTICAL DATUM:</b> MSL 1929 <u>1988</u> <b>Other</b> _____ (circle one)		EL. <u>29.821</u>	
<b>VERTICAL DATUM:</b> MSL <u>1929</u> 1988 <b>Other</b> _____ (circle one)		EL.	
<b>CONTROL ACCURACY:</b> HORIZONTAL 1 2 3 <u>SUB-METER</u> (circle one) VERTICAL 1 2 <u>3</u>			
<b>DESCRIPTION</b>			
<p>To Reach:</p> <p>FROM THE INTERSECTION OF THE TURNPIKE ENTRANCE NORTH BOUND AND STATE ROAD 80 (SOUTHERN BLVD) IN WEST PALM BEACH PROCEED WEST ON STATE ROAD 80 12.45 MILES TO THE WEST SIDE OF L8 CANAL. TURN RIGHT AND PROCEED NORTH ALONG THE WEST SIDE OF THE L8 CANAL SHELL ROCK ROADWAY 3.65 MILE. TURN LEFT WEST AND PRECEDE DOWN AND UP THE LEVEE +/- 400 FEET TO WELL SITE L8 FEB 1 AND STATION LOCATION.</p> <p>STATION IS LOCATED 3.7 FEET EAST OF THE CENTER WELL (OF 3 WELLS) WITH A METAL WITNESS SIGN ATTACHED TO THE 8 INCH WELL CASING. 0.5 FEET BELOW GROUND.</p> <p>THE STATION IS A 1 ¼ INCH ID GALVANIZED PIPE WITH A SFWMD ALUMINUM CAP STAMPED L8 FEB 1 BM 2014. SET IN CONCRETE.</p> <p>NGS Benchmarks Used: M692 2007</p> <p>Notable Land marks: NORTHEAST CORNER OF L8 RESERVOIR</p>			





MISC FB 6-T 7-28-14

20

COMMENTS

"FEBI"

BM LB FEBI 2014 LOCATED @ NE CORNER of  
LB RESERVOIR

REF MARK LB FEBI U V NOTCH E. TOP of 2" PVC WELL CASING

REF MARK LB FEBI M .. ..

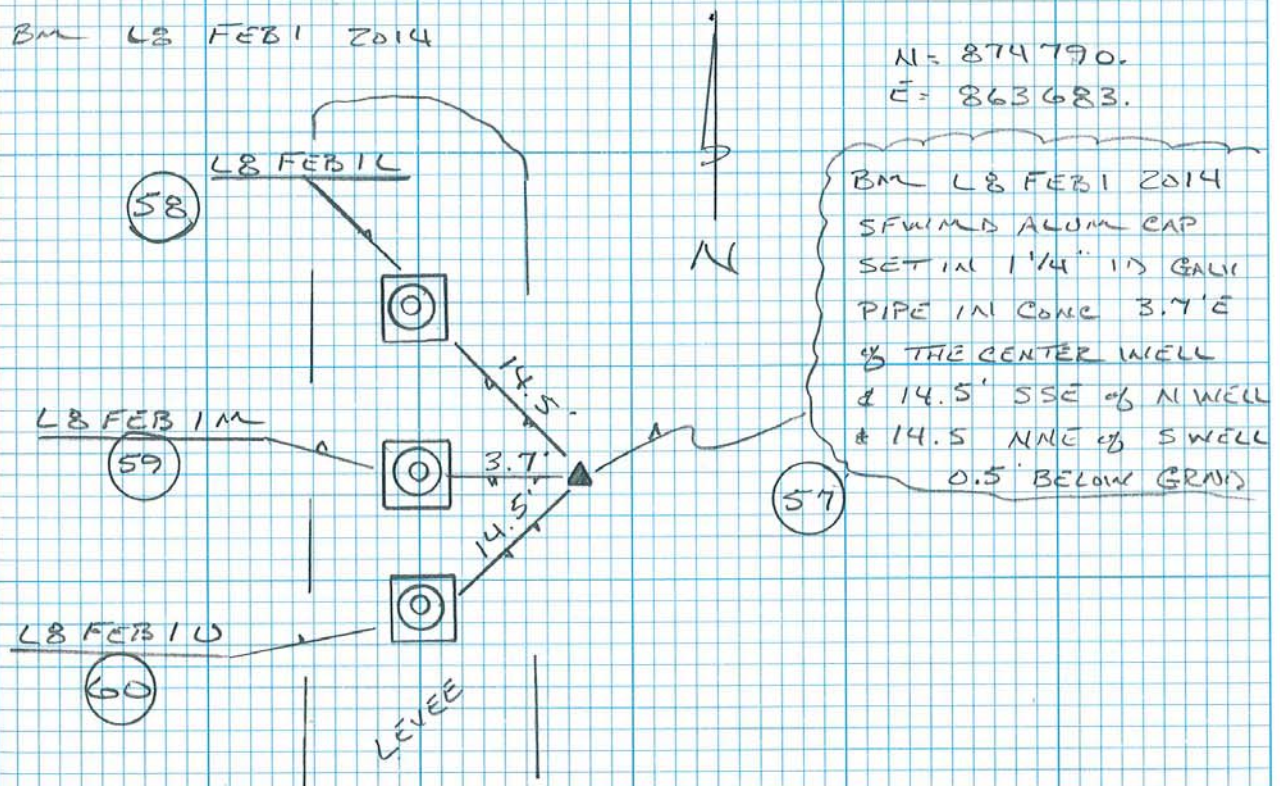
REF MARK LB FEBI L .. ..

GRND @ LB FEBI L

GRND @ LB FEBI M

GRND @ LB FEBI U

BM LB FEBI 2014





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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<b>COUNTY:</b> PALM BEACH		<b>PROJECT</b> L-8	<b>DESIGNATION"</b> L8FEB2
<b>SECTION:</b> 29		<b>TOWNSHIP:</b> 43 SOUTH	<b>RANGE:</b> 40 EAST
<b>NAME OF QUADRANGLE</b> LOXAHATCHEE (1984)			
<b>Established by:</b> SFWMD		<b>Recovered by</b> _____ (Surveyor / Firm Name)	
<b>DATE ESTABLISHED:</b> 7/28/2014		<b>FIELD BOOK:</b> MISC 6 T PAGE 21 & 22	
<b>HORIZONTAL DATUM:</b> 1927 (1983) ADJ ____ Other ____ (circle one) ZONE (E) or W			
<b>STATE PLANE COORDINATES</b>		N 859,778	E 863,391
<b>LATITUDE:</b> N DD° MM' SS.S"		<b>LONGITUDE:</b> W DD° MM' SS.S"	
<b>VERTICAL DATUM:</b> MSL 1929 (1988) Other ____ (circle one)			<b>EL.</b> 28.75
<b>VERTICAL DATUM:</b> MSL (1929) 1988 Other ____ (circle one)			<b>EL.</b>
<b>CONTROL ACCURACY:</b> HORIZONTAL 1 2 3 (SUB-METER) (circle one) VERTICAL 1 2 (3)			
<b>DESCRIPTION</b>			
<p>To Reach:</p> <p>FROM THE INTERSECTION OF THE TURNPIKE ENTRANCE NORTH BOUND AND STATE ROAD 80 (SOUTHERN BLVD) IN WEST PALM BEACH PROCEED WEST ON STATE ROAD 80 12.45 MILES TO THE WEST SIDE OF L8 CANAL. TURN RIGHT AND PROCEED NORTH ALONG THE WEST SIDE OF THE L8 CANAL SHELL ROCK ROADWAY 0.8 MILE. TURN LEFT WEST AND PRECEDE DOWN AND UP THE LEVEE +/- 400 FEET TO WELL SITE L8 FEB 2 AND STATION LOCATION.</p> <p>THE STATION IS LOCATED 6 FEET SOUTHEAST OF THE NORTHWEST MOST WELL WITH A METAL WITNESS SIGN ATTACHED TO THE 8 INCH WELL CASING. AND 6 FEET NORTHWEST OF THE CENTER WELL. (3 WELLS AT THIS LOCATION). AND 0.7 FEET BELOW GROUND.</p> <p>THE STATION IS A 1 ¼ INCH ID GALVANIZED PIPE WITH A SFWMD ALUMINUM CAP STAMPED L8 FEB 2 BM 2014. SET IN CONCRETE.</p> <p>NGS Benchmarks Used: J692 2007</p> <p>Notable Land marks:</p>			



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MISC FB 6-T 7-28-14

22

STRICKLAND  
KETT

COMMENTS

"FEBZ"

BM LB FEBZ 2014 LOCATED @ SE CORNER of  
LB RESERVOIR SEE PG - 21

REF MARK LB FEBZ U V NOTCH E. TOP of 8" PVC WELL CASING

REF MARK LB FEBZ M " " "

REF MARK LB FEBZ L " " "

GRND @ LB FEBZ L

GRND @ LB FEBZ M

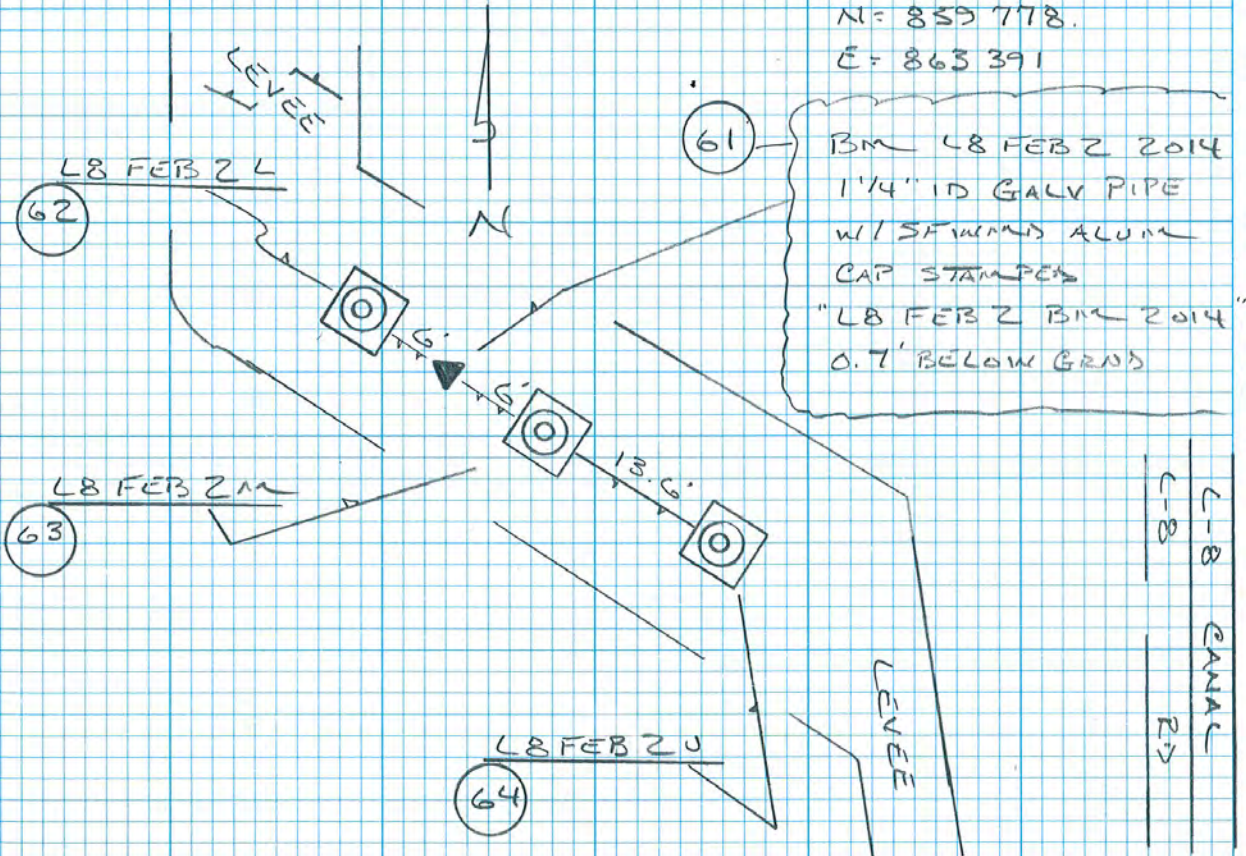
GRND @ LB FEBZ U

"FEBZ"

BM LB FEBZ 2014 AS ABOVE

N = 859 778.

E = 863 391





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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<b>COUNTY:</b> PALM BEACH		<b>PROJECT</b> L-8	<b>DESIGNATION:</b> L8FEB3
<b>SECTION</b> 32		<b>TOWNSHIP</b> 43 SOUTH	<b>RANGE</b> 40 EAST
<b>NAME OF QUADRANGLE</b> LOXAHATCHEE (1984)			
<b>Established by</b> SFWMD		<b>Recovered by</b> _____ (Surveyor / Firm Name)	
<b>DATE ESTABLISHED:</b> 7/29/2014		<b>FIELD BOOK:</b> MISC 6 T PAGE 23 & 24	
<b>HORIZONTAL DATUM:</b> 1927 (1983) ADJ _____ <b>Other</b> _____ (circle one) ZONE (E) or W			
<b>STATE PLANE COORDINATES</b>		N 857,100	E 863,449
<b>LATITUDE:</b> N DD° MM' SS.S"		<b>LONGITUDE:</b> W DD° MM' SS.S"	
<b>VERTICAL DATUM:</b> MSL 1929 (1988) <b>Other</b> _____ (circle one)			<b>EL.</b> 31.592
<b>VERTICAL DATUM:</b> MSL (1929) 1988 <b>Other</b> _____ (circle one)			<b>EL.</b>
<b>CONTROL ACCURACY:</b> HORIZONTAL 1 2 3 (SUB-METER) (circle one) VERTICAL 1 2 (3)			
<b>DESCRIPTION</b>			
<p>To Reach:</p> <p>FROM THE INTERSECTION OF THE TURNPIKE ENTRANCE NORTH BOUND AND STATE ROAD 80 (SOUTHERN BLVD) IN WEST PALM BEACH PROCEED WEST ON STATE ROAD 80 12.45 MILES TO THE WEST SIDE OF L8 CANAL. TURN RIGHT AND PROCEED NORTH ALONG THE WEST SIDE OF THE L8 CANAL SHELL ROCK ROADWAY 0.3 MILE. TURN LEFT WEST AND PRECEDE DOWN AND UP THE LEVEE +/- 350 FEET TO WELL SITE L8 FEB 3 AND STATION LOCATION.</p> <p>STATION IS LOCATED 5.5 FEET EAST OF THE CENTER WELL (OF 3 WELLS) WITH A METAL WITNESS SIGN ATTACHED TO 8 INCH WELL CASING. AND 0.5 FEET BELOW GROUND.</p> <p>THE STATION IS A 1 ¼ INCH ID GALVANIZED PIPE WITH A SFWMD ALUMINUM CAP STAMPED L8 FEB 3 BM 2014. SET IN CONCRETE.</p> <p>NGS Benchmarks Used: J692 2007</p>			



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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MISC FB 6-T 7.29-14 24

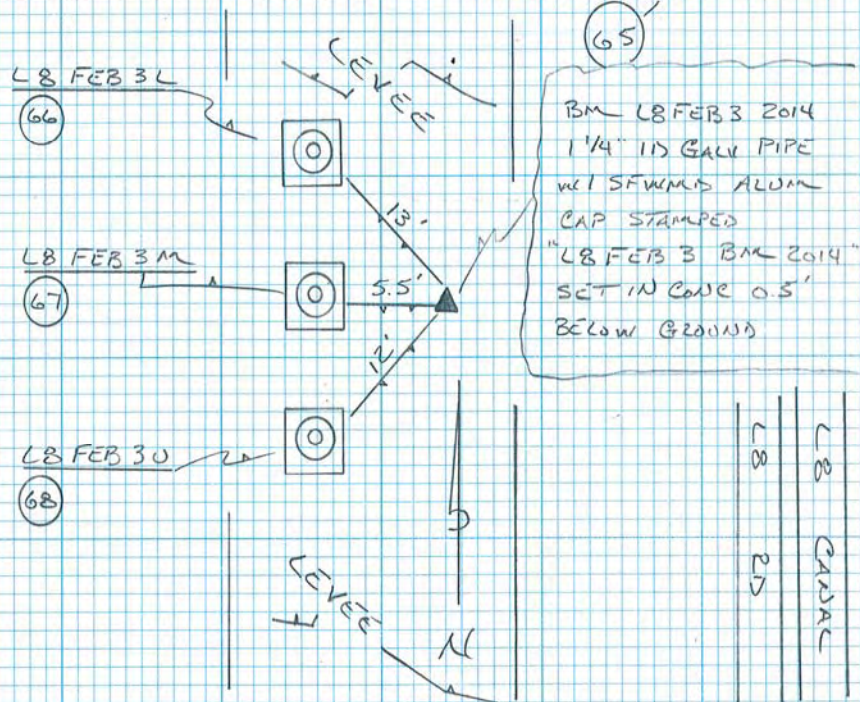
STRICKLAND  
& KETT

COMMENTS

"FEB3"  
BM LB FEB3 2014 SEE PG-23

REF MARK	LB FEB3 U	V NOTCH E. TOP of 8" PVC WELL CASING
REF MARK	LB FEB3 M	" " "
REF MARK	LB FEB3 L	" " "
GRND @	LB FEB3 L	
GRND @	LB FEB3 M	
GRND @	LB FEB3 U	
BM	LB FEB3 2014	AS ABOVE

N = 857.100.  
E = 863.449.



SKETCH



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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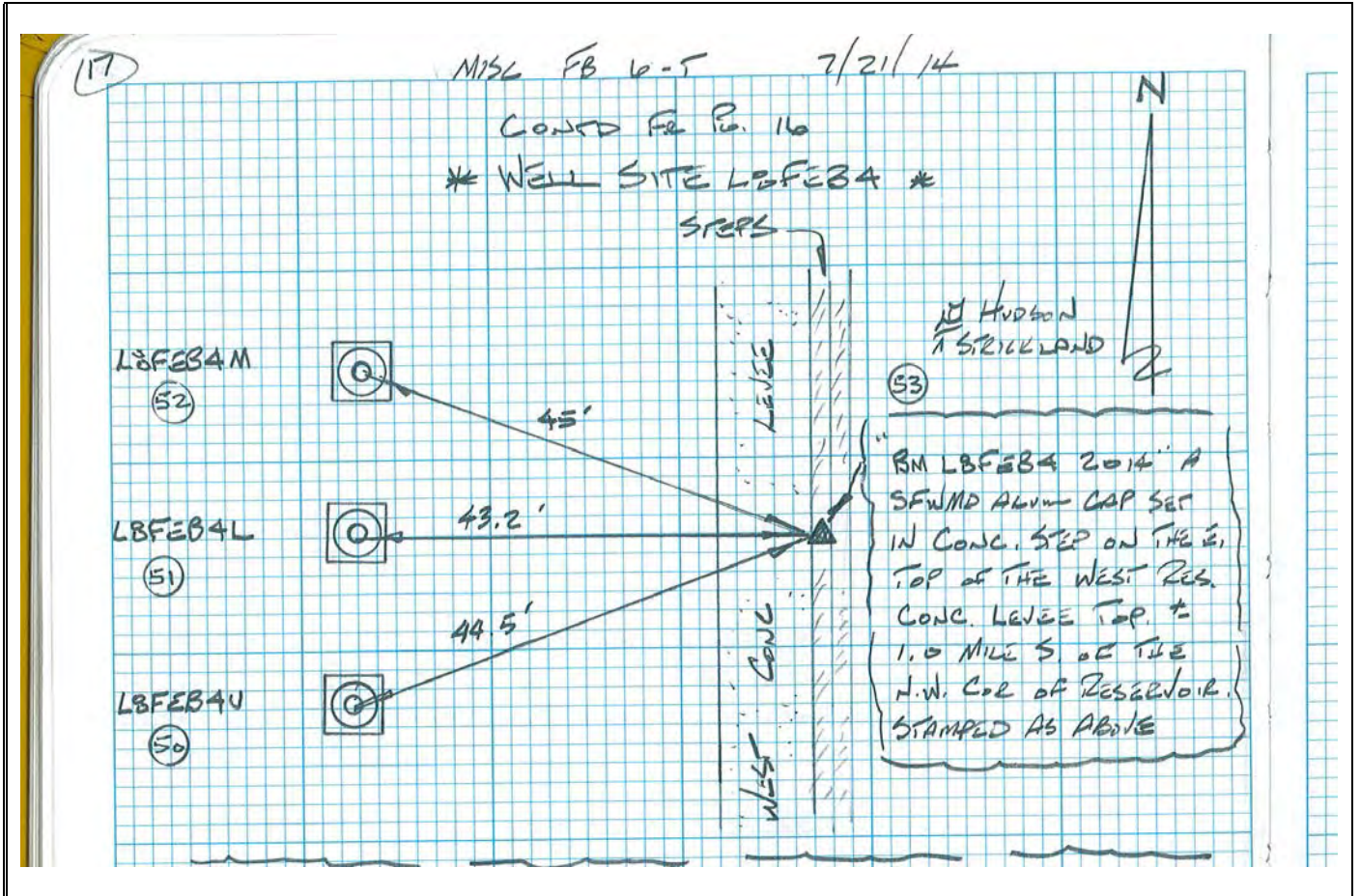
COUNTY PALM BEACH	PROJECT L-8	DESIGNATION <b>L8FEB4</b>
SECTION 17	TOWNSHIP 43 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE LOXAHATCHEE (1984)		
Established by SFWMD	Recovered by _____ (Surveyor / Firm Name)	
DATE ESTABLISHED : 7/21/2014	FIELD BOOK MISC 6 T PAGE 16 & 17	
HORIZONTAL DATUM: 1927 <b>1983</b> ADJ ____ Other ____ (circle one) ZONE <b>E</b> or W		
STATE PLANE COORDINATES	N 869,534	E 859,736
LATITUDE: N DD° MM' SS.S"	LONGITUDE: W DD° MM' SS.S"	
VERTICAL DATUM: MSL 1929 <b>1988</b> Other _____ (circle one)	EL. 18.053	
VERTICAL DATUM: MSL <b>1929</b> 1988 Other _____ (circle one)	EL.	
CONTROL ACCURACY: HORIZONTAL 1 2 3 <b>SUB-METER</b> (circle one) VERTICAL 1 2 <b>3</b>		
<b>DESCRIPTION</b>		
<p>To Reach:</p> <p>FROM THE INTERSECTION OF THE TURNPIKE ENTRANCE NORTH BOUND AND STATE ROAD 80 (SOUTHERN BLVD) IN WEST PALM BEACH PROCEED WEST ON STATE ROAD 80 12.45 MILES TO THE WEST SIDE OF L8 CANAL. TURN RIGHT AND PROCEED NORTH ALONG THE WEST SIDE OF THE L8 CANAL SHELL ROCK ROADWAY 3.65 MILE. TURN LEFT WEST AND PRECEDE DOWN AND UP THE LEVEE +/- 350 FEET TO THE TOP OF LEVEE AND CONTINUE WEST 0.7 MILE TO THE WEST SIDE OF THE L8 RESERVOIR TURN LEFT SOUTH ALONG THE TOP OF CONCRETE LEVEE 1.0 MILE TO WELL SITE L8 FEB 4 AND STATION LOCATION ON THE LEFT.</p> <p>THE STATION IS LOCATED ON THE EAST TOP OF THE CONCRETE STEP OF THE CONCRETE LEVEE HAVING A METAL WITNESS SIGN ATTACHED TO CONCRETE LEVEE. AND 43.2 FEET EAST OF THE CENTER WELL (OF 3 WELLS)</p> <p>THE STATION IS A 1 ¼ INCH ID GALVANIZED PIPE WITH A SFWMD ALUMINUM CAP STAMPED L8 FEB 4 BM 2014. SET IN CONCRETE.</p> <p>NGS Benchmarks Used: BM SITE 5 <span style="border: 1px solid red; padding: 2px;">This is not an NGS Benchmark</span></p>		
Notable Land marks:		
SKETCH		





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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COUNTY PALM BEACH	PROJECT L-8	DESIGNATION <b>L8FEB6</b>
SECTION _____	TOWNSHIP 43 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE LOXAHATCHEE (1984)		
Established by SFWMD	Recovered by _____ (Surveyor / Firm Name)	
DATE ESTABLISHED: 7/30/2014	FIELD BOOK MISC 6 T PAGE 28 & 29	
HORIZONTAL DATUM: 1927 <b>1983</b> ADJ _____ Other _____ (circle one) ZONE <b>E</b> or W		
STATE PLANE COORDINATES	N 869,456	E 865,881
LATITUDE: N DD° MM' SS.S"	LONGITUDE: W DD° MM' SS.S"	
VERTICAL DATUM: MSL 1929 <b>1988</b> Other _____ (circle one)	EL. <b>16.071</b>	
VERTICAL DATUM: MSL <b>1929</b> 1988 Other _____ (circle one)	EL. ft	
CONTROL ACCURACY: HORIZONTAL 1 2 3 <b>SUB-METER</b> (circle one) VERTICAL 1 2 <b>3</b>		
<b>DESCRIPTION</b>		
<p>To Reach:</p> <p>FROM THE INTERSECTION OF THE TURNPIKE ENTRANCE NORTH BOUND AND STATE ROAD 80 (SOUTHERN BLVD) IN WEST PALM BEACH PROCEED WEST ON STATE ROAD 80 12.35 MILES TO THE EAST SIDE OF L8 CANAL. TURN RIGHT AND PROCEED +/- 125 FEET NORTH ALONG THE EAST SIDE OF THE L8 CANAL TO LOCKED METAL GATE. PASS THROUGH GATE AND CONTINUE NORTH 2.65 MILES. TURN RIGHT EAST AND PROCEED DOWN THE LEVEE +/- 150 FEET TO A LOCKED DOUBLE CHAIN LINK FENCE GATE. PASS THROUGH GATE TURN RIGHT SOUTH +/- 75 FEET TURN LEFT EAST AND PROCEED 0.3 MILE ALONG THE SOUTH SIDE OF AN EAST WEST DITCH TO WELL SITE L8 FEB 6 AND STATION LOCATION ON THE LEFT.</p> <p>THE STATION IS LOCATED BETWEEN THE TWO WELLS LOCATED FLUSH WITH THE GROUND. 7 FEET EAST OF THE WEST WELL AND 6 FEET WEST OF THE EAST WELL. 1 FOOT SOUTH OF A CARSONITE WITNESS POST AND 0.4 FEET BELOW GROUND.</p> <p>THE STATION IS A 1 ¼ INCH ID GALVANIZED PIPE WITH A SFWMD ALUMINUM CAP STAMPED L8 FEB 6 BM 2014. SET IN CONCRETE.</p> <p>NGS Benchmarks Used: L8 DIVIDE <span style="border: 1px solid red; padding: 2px;">This is not an NGS Benchmark</span></p> <p>Notable Land marks:</p> <p>SKETCH</p>		



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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MISC FB 6-T

7-30-14

29

STEICKLAN'S  
Ø KETI

COMMENTS

BM LB FEB 6 2014 SEE PG-28

REF MARK LB FEB 6 E "RFZDE" "V" NOTCH S. SIDE 2" PVC

REF MARK LB FEB 6 W "RFZSW" " " " " "

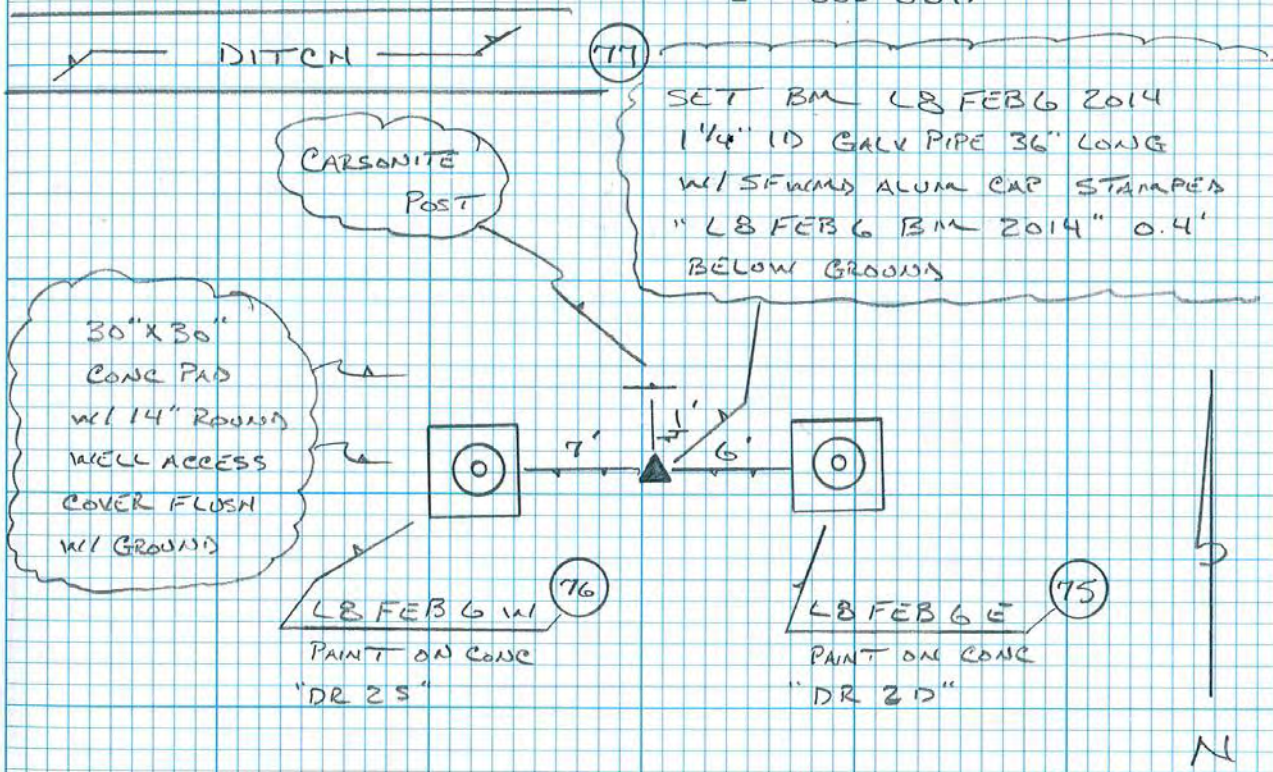
GRND @ LB FEB 6 W "GRZSW"

GRND @ LB FEB 6 E "GRZDE"

BM LB FEB 6 2014 AS ABOVE

N = 869 456.

E = 865 881.





SOUTH FLORIDA WATER MANAGEMENT DISTRICT

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PICTURE



COUNTY PALM BEACH	PROJECT L-8	DESIGNATION: MACKEREL
SECTION 20	TOWNSHIP 43 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE LOXAHATCHEE (1984)		
Established by SFWMD	Recovered by SFWMD____ (Surveyor / Firm Name)	
DATE RECOVERED 7/30/2014	FIELD BOOK MISC 6 T PAGE 28 & 29	
HORIZONTAL DATUM: 1927 (1983) ADJ _____ Other____ (circle one) ZONE (E) or W		
STATE PLANE COORDINATES	N 869,590.03	E 864,211.541
LATITUDE: N DD° MM' SS.S"	LONGITUDE: W DD° MM' SS.S"	
VERTICAL DATUM: MSL 1929 (1988) Other _____ (circle one)	EL. 23.849 ft	
VERTICAL DATUM: MSL (1929) 1988 Other _____ (circle one)	EL. ft	
CONTROL ACCURACY: HORIZONTAL 1 2 (3) SUB-METER (circle one) VERTICAL 1 2 (3)		
<p>To Reach:</p> <p>FROM THE INTERSECTION OF THE TURNPIKE ENTRANCE NORTH BOUND AND STATE ROAD 80 (SOUTHERN BLVD) IN WEST PALM BEACH PROCEED WEST ON STATE ROAD 80 12.35 MILES TO THE EAST SIDE OF L8 CANAL. TURN RIGHT AND PROCEED +/- 125 FEET NORTH ALONG THE EAST SIDE OF THE L8 CANAL TO LOCKED METAL GATE. PASS THROUGH GATE AND CONTINUE NORTH 2.65 MILES. TO WELL SITE L8 PZ 8 (TWO WELLS) AND THE STATION LOCATION IS 430 FEET NORTH OF THE WELL SITE.</p> <p>THE STATION IS LOCATED 12 FEET EAST OF A PALM BEACH COUNTY METAL WITNESS POST AND SIGN. AND 430 FEET NORTH OF WELL SITE L8 PZ 8.</p> <p>THE STATION IS A PALM BEACH COUNTY GEODETIC SURVEY BRASS DISK FOUND IN CONCRETE. STAMPED MACKEREL</p> <p>NGS Benchmarks Used: L8 DIVIDE <span style="border: 1px solid red; padding: 2px;">This is not an NGS Benchmark</span></p>		
Notable Land marks:		

SKETCH

MISC FB 6-T

7-30-14

27

K M STEICKLAW'S  
of KETC

COMMENTS

BM MACKEREL FD PALM BEACH CO. BRASS DISK PG-26

REF MARK L8 PZ 8A VNOTCH NW SIDE of 4"x4"

REF MARK L8 PZ 8B ALUM WELL CASING " " " "

GRWA @ L8 PZ 8B

GRWA @ L8 PZ 8A

BM MACKEREL AS ABOVE

FD "MACKEREL"  
PALM BEACH COUNTY HI  
CONTROL BRASS DISK

L-8 DIME  
SS ROD

L-8 CANAL

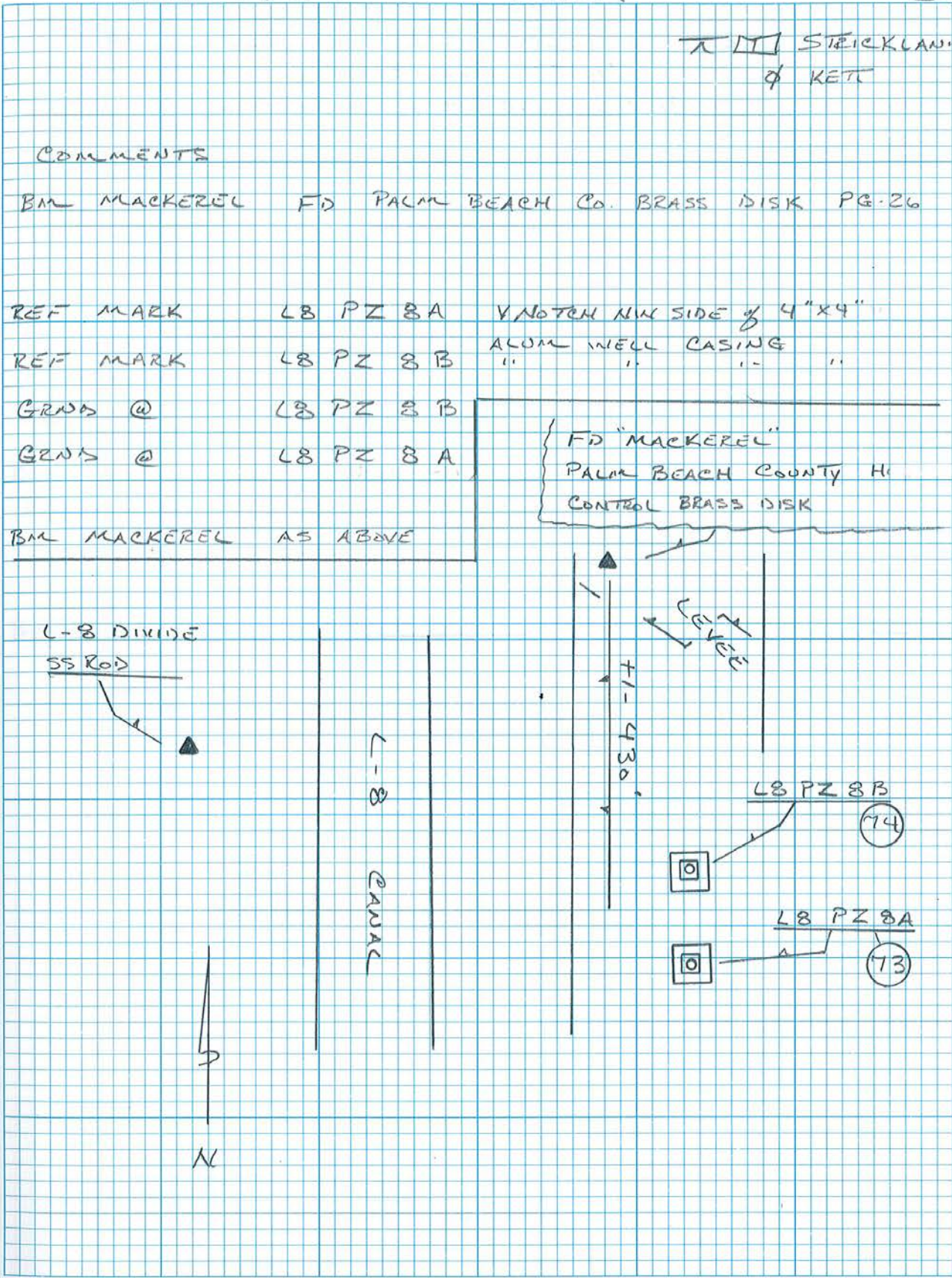
71-430'

LEVEL

L8 PZ 8B (74)

L8 PZ 8A (73)

N







# CONTROL STATIONS REPORT

NAME: MACKREL

DATE LAST RECOVERED: 09/23/1993

STAMPED: MACKREL

PID:

STATUS 2009:

DISK: Y

TOWNSHIP: 43

RANGE: 40

SECTION: 17

STABILITY:

FIELD BOOK:

FIELD BOOK PAGE:

NAVD88 VERTICAL CONSTRAIN:

NGVD 1929:

NGVD 29 AGENCY:

NGVD 29 LEVELING DATE:

VERTICAL 29 By:

NAVD88 FEET:

NAVD 88 AGENCY:

NAVD 88 LEVELING DATE:

VERTICAL 88 By:

VERTICAL CONTROL SURVEY DRAWING NO.:

HORIZONTAL ACCURACY: 22

HORIZONTAL AGENCY: PBCO

HORIZONTAL CONSTRAIN: N

Y72: 869425.7049

X72: 707972.8665

N90: 869590.0300

E90: 864211.5410

FIELD BOOK HORIZONTAL:

FIELD BOOK PAGE HORIZONTAL:

HPDF: Y

CONVERGENCE 90: 0:17'11.886"

SCALE FACTOR 90: 0.999990801

POINT NO: 30364

HORIZONTAL CONTROL SURVEY DRAWING NO: S-3-94-763

HORIZONTAL 90 BY: Gary L. Beaty

APPROXIMATE LATITUDE: 26 43 28.61858

APPROXIMATE LONGITUDE: 80 21 45.47923

MONUMENT TYPE: PBCO BRASS DISK/CM

GPS ACCURACY:

GPS NO:

GPS HORIZONTAL AGENCY:

DATE CREATED 98:

N98:

m

SCALE FACTOR 98:

CONVERGENCE 98:

E98:

m

DATUM:

ADJUSTMENT:

GPS HORIZONTAL 98 BY:

N=No Y=Yes 10=First Order 21=Second Order Class I 22=Second Order Class II 30=Third Order 2=0.02m Local Accuracy  
3=0.03m Local Accuracy m=Meters

**It is the responsibility of the user to verify the data by referring to the Certified Survey on file in the Office of the County Engineer.**

## MEMO

TO REACH THE STATION FROM THE INTERSECTION OF SEMINOLE PRATT WHITNEY ROAD AND WEST SYCAMORE ROAD, GO 2.9 MILES WEST ON SYCAMORE ROAD TO THE GATE ON THE EAST RIGHT OF WAY TO THE L-8 CANAL, KEY 19T455. TURN LEFT THROUGH THE GATE, KEY 51066, AND GO SOUTH 1.05 MILES TO THE STATION ON THE RIGHT.

THE STATION IS A PALM BEACH COUNTY BRASS DISK SET IN CONCRETE STAMPED "MACKREL".

THE STATION IS LOCATED 9 FEET EAST OF A WITNESS POST AND PALM BEACH COUNTY SIGN ON THE WEST CUT OF THE LEVEE, 102.3 FEET WEST OF THE EAST END OF A 4 FOOT CULVERT UNDER THE L-8 LEVEE, 36 FEET NORTH OF A POWER LINE RUNNING EAST WHEN EXTENDED TO THE WEST, EAST OF A GAS TANK ON THE EAST SIDE OF THE CANAL ON THE EAST SIDE OF L-8 LEVEE, AND 83.8 FEET EAST OF THE WEST END OF THE SAME 4 FOOT CULVERT, .20 FEET BELOW THE SURFACE OF THE LEVEE TOP.

<b>COUNTY</b> PALM BEACH	<b>PROJECT</b> L-8	<b>DESIGNATION</b> TUNA
<b>SECTION</b> 16	<b>TOWNSHIP</b> 43 SOUTH	<b>RANGE</b> 40 EAST
<b>NAME OF QUADRANGLE</b> LOXAHATCHEE (1984)		
<b>Established by</b> SFWMD		<b>Recovered by</b> SFWMD (Surveyor / Firm Name)
<b>DATE RECOVERED:</b> 7/30/2014		<b>FIELD BOOK:</b> MISC 6 T PAGE 28 & 29
<b>HORIZONTAL DATUM:</b> 1927 (1983) ADJ Other (circle one) ZONE (E) or W		
<b>STATE PLANE COORDINATES</b>	N 869,436.28	E 867,062.76
<b>LATITUDE:</b> N DD° MM' SS.S"	<b>LONGITUDE:</b> W DD° MM' SS.S"	
<b>VERTICAL DATUM:</b> MSL 1929 (1988) Other (circle one)	EL. 16.26 ft	
<b>VERTICAL DATUM:</b> MSL (1929) 1988 Other (circle one)	EL. ft	
<b>CONTROL ACCURACY:</b> HORIZONTAL 1 2 (3) <u>SUB-METER</u> (circle one) VERTICAL 1 2 (3)		
<p>To Reach:</p> <p>FROM THE INTERSECTION OF THE TURNPIKE ENTRANCE NORTH BOUND AND STATE ROAD 80 (SOUTHERN BLVD) IN WEST PALM BEACH PROCEED WEST ON STATE ROAD 80 12.35 MILES TO THE EAST SIDE OF L8 CANAL. TURN RIGHT AND PROCEED +/- 125 FEET NORTH ALONG THE EAST SIDE OF THE L8 CANAL TO LOCKED METAL GATE. PASS THROUGH GATE AND CONTINUE NORTH 2.65 MILES. TURN RIGHT EAST AND PROCEED DOWN THE LEVEE +/- 150 FEET TO A LOCKED DOUBLE CHAIN LINK FENCE GATE. PASS THROUGH GATE TURN RIGHT SOUTH +/- 75 FEET TURN LEFT EAST AND PROCEED 0.45 MILE ALONG THE SOUTH SIDE OF AN EAST WEST DITCH TO WELL SITE L8 FEB 7 (TWO WELLS FLUSH WITH GROUND) AND THE STATION LOCATION IS 175 FEET EAST OF THE WELL SITE.</p> <p>THE STATION IS LOCATED 27 FEET NORTH OF A PALM BEACH COUNTY METAL WITNESS POST NAILED TO A CYPRESS TREE. AND 175 EAST OF WELL SITE L8 FEB 7.</p> <p>THE STATION IS A PALM BEACH COUNTY GEODETIC SURVEY BRASS DISK FOUND IN CONCRETE. STAMPED TUNA</p> <p>DESCRIBED BY ADR GEODETIC SERVICES 1991</p> <p>TO REACH THE STATION FROM THE INTERSECTION OF SOUTHERN BOULEVARD, (STATE ROUTE 80, US ROUTE 98, US ROUTE 441 TO THE WEST) AND STATE ROUTE 7 (US ROUTE 441 TO THE SOUTH), GO WEST ON SOUTHERN BOULEVARD FOR 7.5 MI (12.07 KM) TO LION COUNTRY SAFARI ROAD. TURN RIGHT AND GO NORTH ON LION COUNTRY SAFARI ROAD FOR 1.7 MI (2.74 KM) TO DOE DRIVE. TURN LEFT AND GO WEST ON DOE DRIVE FOR 0.5 MI (0.80 KM) , BEAR RIGHT AND CONTINUE NORTHWEST ON DOE DRIVE FOR 0.35 MI (0.56 KM) , BEAR RIGHT AND CONTINUE NORTH ON DOE DRIVE FOR 0.35 MI (0.56 KM) TO DEER RUN BOULEVARD. TURN LEFT AND GO WEST ON DEER RUN BOULEVARD FOR 1.3 MI (2.09 KM) TO DEER RUN TRAIL. TURN RIGHT AND GO 0.5 MI (0.80 KM) NORTH ON DEER RUN TRAIL TO THE END OF THE ROAD AND THE STATION 30 FEET SOUTH OF THE SOUTH EDGE OF A CANAL.</p> <p>THE STATION IS NORTHEAST 38.21 FT (11.65 M) FROM A PK AND WASHER IN THE NORTH FACE OF A 6 INCH CYPRESS TREE, NORTHWEST 68.21 FT (20.79 M) FROM A NAIL AND TIN TAB IN A CYPRESS TREE, AND NORTH 36.21 FT (11.04 M) FROM A NAIL AND TIN TAB 3 FEET UP THE EAST SIDE OF A 20 INCH CYPRESS TREE. THE STATION IS 1.8 FT (0.55 M) NORTH OF A PALM BEACH COUNTY SURVEY WITNESS SIGN AND POST.</p> <p>NGS Benchmarks Used: L8 DIVIDE <span style="border: 1px solid red; padding: 2px;">This is not an NGS Benchmark</span></p>		
<b>DESCRIPTION</b>		
Notable Land marks:		

SKETCH

MISC FB 7-30-14

30

B2  
90

STRICKLAND  
KETT

COMMENTS

BM TUNA FD PALM BEACH CO. CM & BRASS DISK P. 28

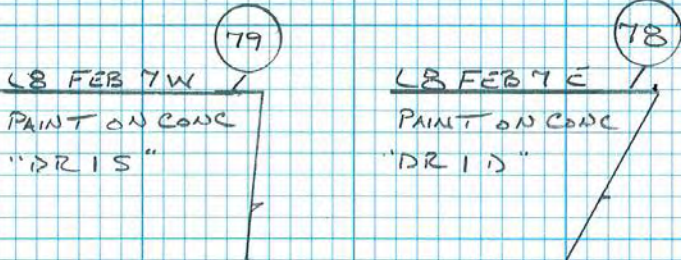
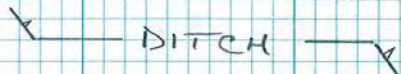
REF MARK L8 FEB 7 E "RFIDE" "V" NOTCH S. SIDE 2" PVC

REF MARK L8 FEB 7 W "RFLSW" " " " " " "

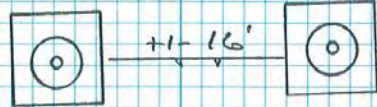
GRND @ L8 FEB 7 W "GRISW"

GRND @ L8 FEB 7 E "GRIDE"

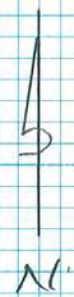
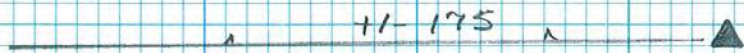
BM TUNA AS ABOVE



FD "TUNA"  
PALM BEACH COUNTY H  
CONTROL BRASS DISK



30" X 30"  
CONCRETE PAD  
W/ 14" ROUND  
WELL ACCESS  
COVER FLUSH  
W/ GROUND



PICTURE



# CONTROL STATIONS REPORT

NAME: TUNA

DATE LAST RECOVERED:

STAMPED: TUNA

PID:

STATUS 2009:

DISK: Y

TOWNSHIP: 43

RANGE: 40

SECTION: 16

STABILITY:

FIELD BOOK:

FIELD BOOK PAGE:

NAVD88 VERTICAL CONSTRAIN:

NGVD 1929:

NGVD 29 AGENCY:

NGVD 29 LEVELING DATE:

VERTICAL 29 By:

NAVD88 FEET:

NAVD 88 AGENCY:

NAVD 88 LEVELING DATE:

VERTICAL 88 By:

VERTICAL CONTROL SURVEY DRAWING NO.:

HORIZONTAL ACCURACY: 10

HORIZONTAL AGENCY: ADR

HORIZONTAL CONSTRAIN: Y

Y72: 869271.9598

X72: 710824.0786

N90: 869436.2310

E90: 867062.7690

FIELD BOOK HORIZONTAL:

FIELD BOOK PAGE HORIZONTAL:

HPDF: Y

CONVERGENCE 90: 0:17'26.008" SCALE FACTOR 90: 0.999992171

POINT NO: 30362

HORIZONTAL CONTROL SURVEY DRAWING NO: S-3-94-763

HORIZONTAL 90 BY: Gary L. Beaty

APPROXIMATE LATITUDE: 26 43 26.95324

APPROXIMATE LONGITUDE: 80 21 14.04332

MONUMENT TYPE: PBCO BRASS DISK/CM

GPS ACCURACY: 2

GPS NO: 1041

GPS HORIZONTAL AGENCY: PBCO

DATE CREATED 98: 11/19/1998

N98: 869436.2323 m

SCALE FACTOR 98: 0.999992171

CONVERGENCE 98: 0:17'26.008"

E98: 867062.7281 m

DATUM: 83

ADJUSTMENT: 90/98

GPS HORIZONTAL 98 BY: Glenn W. Mark

N=No Y=Yes 10=First Order 21=Second Order Class I 22=Second Order Class II 30=Third Order 2=0.02m Local Accuracy  
3=0.03m Local Accuracy m=Meters

**It is the responsibility of the user to verify the data by referring to the Certified Survey on file in the Office of the County Engineer.**

## MEMO

TO REACH THE STATION FROM THE INTERSECTION OF SOUTHERN BOULEVARD AND LION COUNTRY SAFARI ROAD, GO NORTH ON LION COUNTRY SAFARI ROAD FOR 1.7 MILES TO DOE DRIVE. TURN LEFT AND GO WEST ON DOE DRIVE FOR 0.5 MILE. BEAR RIGHT AND CONTINUE NORTHWEST ON DOE DRIVE FOR 0.35 MILE. BEAR RIGHT AND CONTINUE NORTH ON DOE DRIVE FOR 0.35 MILE TO DEER RUN BOULEVARD. TURN LEFT AND GO WEST ALONG DEER RUN BOULEVARD FOR 1.3 MILE TO DEER RUN TRAIL. TURN RIGHT AND GO 0.5 MILE NORTH ON DEER RUN TRAIL AND ITS NORTHERLY PROJECTION TO THE STATION ON THE SOUTH SIDE OF A CANAL.

THE STATION IS A PALM BEACH COUNTY BRASS DISK IN A ROUND CONCRETE MONUMENT STAMPED "TUNA".

THE STATION IS LOCATED 68.21 FEET NORTHWEST OF A NAIL AND TIN TAB IN A CYPRESS, 36.21 FEET NORTH OF ANOTHER NAIL AND TIN TAB 3 FOOT UP THE EAST SIDE OF A 20 INCH CYPRESS AND 1.8 FEET NORTH OF A PALM BEACH COUNTY SURVEY WITNESS SIGN AND POST.



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

<b>COUNTY WEST PALM BEACH</b>		<b>PROJECT L-8</b>		<b>DESIGNATION L8 RES SITE 5</b>	
<b>SECTION <u>20</u></b>		<b>TOWNSHIP 43 S</b>		<b>RANGE 40 E</b>	
<b>GEOGRAPHIC INDEX OF QUAD</b>					
Established by <u>WHIDDEN SURVEYING</u> _ Recovered by			NAME OF QUADRANGLE <u>LOXAHATCHEE (1984)</u>		
SURVEYOR <u>C. LINDSTEDT</u> DATE <u>8/16/2010</u>			FIELD BOOK _____ PAGES		
HORIZONTAL DATUM: 1927 (1983) Other _____ (circle one) ZONE (E) or W					
VERTICAL DATUM: MSL (1929) (1988) Other _____ (circle one)					
CONTROL ACCURACY: HORIZONTAL 1 2 (3) <u>+/-3M</u> (circle one) VERTICAL 1 2 (3)					
STATE PLANE COORDINATES		X 859658.48 USFT	Y 866417.03 USFT	EL 23.01 FEET (29) EL 21.57 FEET (88)	
LATITUDE N 26 42 57.418		LONGITUDE W 080 22 35.864			
<b>DESCRIPTION</b>					
<p>To Reach:</p> <p>THE MARK IS ABOUT 18.0 MI WEST OF WEST PALM BEACH IN SECTION 20, TOWNSHIP 43 SOUTH, RANGE 40 EAST. TO REACH THE MARK FROM THE INTERSECTION OF STATE ROAD 80 (SOUTHERN BOULEVARD), STATE ROAD 7, U.S. HIGHWAY 441 AND U.S. HIGHWAY 98 ON THE SOUTHWEST SIDE OF WEST PALM BEACH, GO WEST ON U.S. HIGHWAY 441, 98 AND STATE ROAD 80 FOR 2.8 MI TO THE JUNCTION OF FOREST HILL BOULEVARD ON THE LEFT, CONTINUE WEST ON U.S. HIGHWAY 441, 98 AND STATE ROAD 80 FOR 3.95 MI TO THE JUNCTION OF SEMINOLE PRATT WHITNEY ROAD ON THE RIGHT, CONTINUE WEST ON U.S. HIGHWAY 441, 98 AND STATE ROAD 80 FOR 3.9 MI TO THE ENTRANCE OF PALM BEACH AGGREGATE ON THE RIGHT. TURN RIGHT ON ENTRANCE ROAD AND GO NORTH FOR 1.7 MI. TURN RIGHT ON A LEVEE ROAD AND GO EAST FOR 0.18 MILES TO A BEND IN THE LEVEE ROAD. TURN LEFT AND GO NORTH FOR 0.09 MILES TO A BEND IN THE LEVEE ROAD. TURN LEFT AND GO WEST FOR 0.16 MILES TO BEND IN LEVEE ROAD. TURN RIGHT ON LEVEE ROAD AND GO NORTH FOR 0.34 MILES TO A BEND IN THE LEVEE ROAD. TURN LEFT ON LEVEE ROAD AND GO WEST FOR 0.32 MILES THE STATION ON THE LEFT. MONUMENT IS A 12" ROUND POURED IN PLACE CONCRETE MONUMENT WITH A SOUTH FLORIDA WATER MANAGEMENT DISTRICT ALUMINUM DISK STAMPED "L8 RES SITE 5 2010"</p>					



**SOUTH FLORIDA WATER MANAGEMENT DISTRICT**

Rev. 4/01

<b>COUNTY WEST PALM BEACH</b>		<b>PROJECT L-8</b>		<b>DESIGNATION L8 RES SITE 6</b>	
<b>SECTION <u>17</u></b>		<b>TOWNSHIP 43 S</b>		<b>RANGE 40 E</b>	
<b>GEOGRAPHIC INDEX OF QUAD</b>					
Established by <u>WHIDDEN SURVEYING</u> _ Recovered by			NAME OF QUADRANGLE <u>LOXAHATCHEE (1984)</u>		
SURVEYOR <u>C. LINDSTEDT</u> DATE <u>8/16/2010</u>			FIELD BOOK _____ PAGES		
HORIZONTAL DATUM: 1927 ( ) 1983 ( ) Other _____ (circle one) ZONE (E) or W					
VERTICAL DATUM: MSL (1929) (1988) Other _____ (circle one)					
CONTROL ACCURACY: HORIZONTAL 1 2 (3) <u>+/-3M</u> (circle one) VERTICAL 1 2 (3)					
STATE PLANE COORDINATES		X 859786.20 USFT	Y 875100.07 USFT	EL 17.18 FEET (29) EL 15.74 FEET (88)	
LATITUDE N 26 44 23.403			LONGITUDE W 080 22 33.986		
<b>DESCRIPTION</b>					
<p>To Reach:</p> <p>THE MARK IS ABOUT 18.0 MI WEST OF WEST PALM BEACH IN SECTION 17, TOWNSHIP 43 SOUTH, RANGE 40 EAST. TO REACH THE MARK FROM THE INTERSECTION OF STATE ROAD 80 (SOUTHERN BOULEVARD), STATE ROAD 7, U.S. HIGHWAY 441 AND U.S. HIGHWAY 98 ON THE SOUTHWEST SIDE OF WEST PALM BEACH, GO WEST ON U.S. HIGHWAY 441, 98 AND STATE ROAD 80 FOR 2.8 MI TO THE JUNCTION OF FOREST HILL BOULEVARD ON THE LEFT, CONTINUE WEST ON U.S. HIGHWAY 441, 98 AND STATE ROAD 80 FOR 3.95 MI TO THE JUNCTION OF SEMINOLE PRATT WHITNEY ROAD ON THE RIGHT, CONTINUE WEST ON U.S. HIGHWAY 441, 98 AND STATE ROAD 80 FOR 3.9 MI TO THE ENTRANCE OF PALM BEACH AGGREGATE ON THE RIGHT. TURN RIGHT ON TO ENTRANCE ROAD AND GO NORTH FOR 1.7 MI. TURN RIGHT ON A LEVEE ROAD AND GO EAST FOR 0.18 MILES TO A BEND IN THE LEVEE ROAD. TURN LEFT AND GO NORTH FOR 0.09 MILES TO A BEND IN THE LEVEE ROAD. TURN LEFT AND GO WEST FOR 0.16 MILES TO BEND IN LEVEE ROAD. TURN RIGHT ON LEVEE ROAD AND GO NORTH FOR 0.34 MILES TO A BEND IN THE LEVEE ROAD. TURN LEFT ON LEVEE ROAD AND GO WEST FOR 0.32 TO BEND IN THE LEVEE ROAD. TURN RIGHT ON LEVEE ROAD AND GO 1.64 MILES MARKS ON THE LEFT. MONUMENT IS A 12" ROUND POURED IN PLACE CONCRETE MONUMENT WITH A SOUTH FLORIDA WATER MANAGEMENT DISTRICT ALUMINUM DISK STAMPED "L8 RES SITE 6 LB 7232 2010"</p>					



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

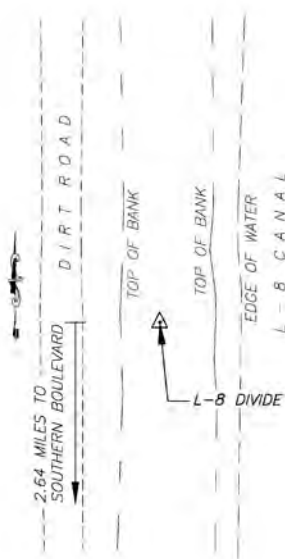
Rev. 4/08

COUNTY Palm Beach	PROJECT L-8 Divide – 1	DESIGNATION L-8 Divide
SECTION 20	TOWNSHIP 43 SOUTH	RANGE 40 EAST
NAME OF QUADRANGLE Loxahatchee		
Established by <u>Zeman, PSM #5655</u>		Recovered by <u>Wantman Group, Inc.</u>
DATE <u>01-28-13</u> (Established or Recovered)	FIELD BOOK <u>451</u>	PAGE <u>29</u>
HORIZONTAL DATUM: 1927 (1983) ADJ ____ OTHER ____ (circle one) ZONE (E) or W		
STATE PLANE COORDINATES:	N 869282.7917 ft	E 863925.9031 ft
LATITUDE: N 26°43'25.5729"	LONGITUDE: W (-)80°21'48.6654"	
VERTICAL DATUM: MSL 1929 1988 Other ____ (circle one)		
VERTICAL DATUM: MSL 1929 (1988) Other ____ (circle one)		15.20 EL. ft
CONTROL ACCURACY: HORIZONTAL 1 2 (3) SUB-METER (circle one) VERTICAL 1 2 (3)		

DESCRIPTION

To Reach: From the intersection State Road 7 / U.S. 441 and State Road 80 (Southern Boulevard) proceed West for 10.00 miles. Turn right on the Westerly dirt access road for Levee L-8, passing through a SFWMD gate, for 2.64 miles to the bench mark on the right. Bench mark is an NGS Class "B" rod mark driven to refusal. Rod is set in a magnesium collar with lid stamped "L-8 Divide".

NGS Vertical Points: "L 692" & "K 692"





# 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 = DECEMBER 30, 2015
DL7818 *****
DL7818 DESIGNATION - M 692
DL7818 PID - DL7818
DL7818 STATE/COUNTY- FL/PALM BEACH
DL7818 COUNTRY - US
DL7818 USGS QUAD - LOXAHATCHEE (1984)
DL7818
DL7818 *CURRENT SURVEY CONTROL
DL7818
DL7818* NAD 83(1986) POSITION- 26 44 32.4 (N) 080 21 52.5 (W) HD HELD2
DL7818* NAVD 88 ORTHO HEIGHT - 7.227 (meters) 23.71 (feet) ADJUSTED
DL7818
DL7818 GEOID HEIGHT - -25.754 (meters) GEOID12B
DL7818 DYNAMIC HEIGHT - 7.216 (meters) 23.67 (feet) COMP
DL7818 MODELED GRAVITY - 979,110.2 (mgal) NAVD 88
DL7818
DL7818 VERT ORDER - FIRST CLASS II
DL7818
DL7818.The horizontal coordinates were established by autonomous hand held GPS
DL7818.observations and have an estimated accuracy of +/- 10 meters.
DL7818.
DL7818.The orthometric height was determined by differential leveling and
DL7818.adjusted by the NATIONAL GEODETIC SURVEY
DL7818.in June 2010.
DL7818
DL7818.Significant digits in the geoid height do not necessarily reflect accuracy.
DL7818.GEOID12B height accuracy estimate available here.
DL7818
DL7818.The dynamic height is computed by dividing the NAVD 88
DL7818.geopotential number by the normal gravity value computed on the
DL7818.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DL7818.degrees latitude (g = 980.6199 gals.).
DL7818
DL7818.The modeled gravity was interpolated from observed gravity values.
DL7818
DL7818; North East Units Estimated Accuracy
DL7818;SPC FL E - 267,014. 263,208. MT (+/- 10 meters HH2 GPS)
DL7818
DL7818 SUPERSEDED SURVEY CONTROL
DL7818
DL7818.No superseded survey control is available for this station.
DL7818
DL7818_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNM6318658054(NAD 83)
DL7818
DL7818_MARKER: F = FLANGE-ENCASED ROD
DL7818_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
DL7818_STAMPING: M 692 2007
DL7818_MARK LOGO: NGS
DL7818_PROJECTION: FLUSH

```

DL7818\_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET  
 DL7818\_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL  
 DL7818\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
 DL7818+SATELLITE: SATELLITE OBSERVATIONS - June 09, 2007  
 DL7818\_ROD/PIPE-DEPTH: 8.4 meters

DL7818  
 DL7818 HISTORY - Date Condition Report By  
 DL7818 HISTORY - 20070609 MONUMENTED FLDEP

DL7818  
 DL7818 STATION DESCRIPTION  
 DL7818

DL7818'DESCRIBED BY FL DEPT OF ENV PRO 2007  
 DL7818'THE MARK IS ABOUT 18.1 MI (29.1 KM) WEST OF WEST PALM BEACH, IN  
 DL7818'SECTION 8, TOWNSHIP 43 SOUTH, RANGE 40 EAST.  
 DL7818'  
 DL7818'TO REACH THE MARK FROM THE INTERSECTION OF STATE ROAD 7, STATE ROAD 80  
 DL7818'AND U.S. HIGHWAY 98 AND U.S. HIGHWAY 441 ON THE SOUTHWEST SIDE OF WEST  
 DL7818'PALM BEACH, GO WEST ON STATE ROAD 80 AND U.S. HIGHWAYS 98, 441  
 DL7818'(SOUTHERN BOULEVARD) FOR 10.1 MI (16.3 KM) TO THE WEST SIDE OF THE L-8  
 DL7818'CANAL BRIDGE AND A LEVEE ROAD ON THE RIGHT. TURN RIGHT ON L-8 LEVEE  
 DL7818'ROAD AND GO NORTH FOR 3.8 MI (6.1 KM) TO A 45-DEGREE LEFT HAND TURN.  
 DL7818'TURN LEFT AND CONTINUE NORTHWEST ON L-8 LEVEE ROAD FOR 0.15 MI (0.2  
 DL7818'KM) TO THE MARK ON THE RIGHT, A STAINLESS STEEL ROD DRIVEN TO REFUSAL  
 DL7818'AT A DEPTH OF 27.7 FT (8.4 M) WITH AN NATIONAL GEODETIC SURVEY LOGO  
 DL7818'CAP FLUSH WITH THE GROUND AND ABOUT 0.5 FT (0.2 M) BELOW THE LEVEL OF  
 DL7818'L-8 LEVEE ROAD, THE DATUM POINT IS RECESSED 0.1 FT (0.0 M) BELOW THE  
 DL7818'LEVEL OF THE NATIONAL GEODETIC SURVEY LOGO CAP.  
 DL7818'  
 DL7818'LOCATED 12.0 FT (3.7 M) NORTHEAST OF THE APPROXIMATE CENTERLINE OF L-8  
 DL7818'LEVEE ROAD, 4.0 FT (1.2 M) NORTHEAST OF THE NORTHEAST EDGE OF THE L-8  
 DL7818'LEVEE ROAD AND 1.1 FT (0.3 M) SOUTHWEST OF A CARSONITE WITNESS POST.  
 DL7818'  
 DL7818'NOTE A MAGNET WAS PLACED INSIDE OF THE NATIONAL GEODETIC SURVEY LOGO  
 DL7818'CAP.  
 DL7818'  
 DL7818'NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH (13 CM)  
 DL7818'NATIONAL GEODETIC SURVEY LOGO CAP.

\*\*\* retrieval complete.  
 Elapsed Time = 00:00:01



# 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 = DECEMBER 30, 2015
DL7815 *****
DL7815 DESIGNATION - J 692
DL7815 PID - DL7815
DL7815 STATE/COUNTY- FL/PALM BEACH
DL7815 COUNTRY - US
DL7815 USGS QUAD - LOXAHATCHEE (1984)
DL7815
DL7815 *CURRENT SURVEY CONTROL
DL7815
DL7815* NAD 83(1986) POSITION- 26 41 58.7 (N) 080 21 51.0 (W) HD_HELD2
DL7815* NAVD 88 ORTHO HEIGHT - 6.628 (meters) 21.75 (feet) ADJUSTED
DL7815
DL7815 GEOID HEIGHT - -25.630 (meters) GEOID12B
DL7815 DYNAMIC HEIGHT - 6.618 (meters) 21.71 (feet) COMP
DL7815 MODELED GRAVITY - 979,110.1 (mgal) NAVD 88
DL7815
DL7815 VERT ORDER - FIRST CLASS II
DL7815
DL7815.The horizontal coordinates were established by autonomous hand held GPS
DL7815.observations and have an estimated accuracy of +/- 10 meters.
DL7815.
DL7815.The orthometric height was determined by differential leveling and
DL7815.adjusted by the NATIONAL GEODETIC SURVEY
DL7815.in June 2010.
DL7815
DL7815.Significant digits in the geoid height do not necessarily reflect accuracy.
DL7815.GEOID12B height accuracy estimate available here.
DL7815
DL7815.The dynamic height is computed by dividing the NAVD 88
DL7815.geopotential number by the normal gravity value computed on the
DL7815.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DL7815.degrees latitude (g = 980.6199 gals.).
DL7815
DL7815.The modeled gravity was interpolated from observed gravity values.
DL7815
DL7815; North East Units Estimated Accuracy
DL7815;SPC FL E - 262,283. 263,273. MT (+/- 10 meters HH2 GPS)
DL7815
DL7815 SUPERSEDED SURVEY CONTROL
DL7815
DL7815 No superseded survey control is available for this station.
DL7815
DL7815_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6325153325(NAD 83)
DL7815
DL7815_MARKER: F = FLANGE-ENCASED ROD
DL7815_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
DL7815_STAMPING: J 692 2007
DL7815_MARK LOGO: NGS
DL7815_PROJECTION: FLUSH

```

DL7815\_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET  
 DL7815\_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL  
 DL7815\_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR  
 DL7815+SATELLITE: SATELLITE OBSERVATIONS - June 09, 2007  
 DL7815\_ROD/PIPE-DEPTH: 5.5 meters

DL7815

HISTORY	Date	Condition	Report By
HISTORY	20070609	MONUMENTED	FLDEP

DL7815

DL7815 STATION DESCRIPTION

DL7815

DL7815'DESCRIBED BY FL DEPT OF ENV PRO 2007

DL7815'THE MARK IS ABOUT 18.0 MI (29.0 KM) WEST OF WEST PALM BEACH, IN  
 DL7815'SECTION 29, TOWNSHIP 43 SOUTH, RANGE 40 EAST.

DL7815'

DL7815'TO REACH THE MARK FROM THE INTERSECTION OF STATE ROAD 7, STATE ROAD 80  
 DL7815'AND U.S. HIGHWAY 98 AND U.S. HIGHWAY 441 ON THE SOUTHWEST SIDE OF WEST  
 DL7815'PALM BEACH, GO WEST ON STATE ROAD 80 AND U.S. HIGHWAYS 98, 441  
 DL7815'(SOUTHERN BOULEVARD) FOR 10.1 MI (16.3 KM) TO THE WEST SIDE OF THE L-8  
 DL7815'CANAL BRIDGE AND A LEVEE ROAD ON THE RIGHT. TURN RIGHT ON L-8 LEVEE  
 DL7815'ROAD AND GO NORTH FOR 1.0 MI (1.6 KM) TO THE MARK ON THE RIGHT, A  
 DL7815'STAINLESS STEEL ROD DRIVEN TO REFUSAL AT A DEPTH OF 18.0 FT (5.5 M)  
 DL7815'WITH AN NATIONAL GEODETIC SURVEY LOGO CAP FLUSH WITH THE GROUND AND  
 DL7815'ABOUT 1.0 FT (0.3 M) BELOW THE LEVEL OF L-8 LEVEE ROAD, THE DATUM  
 DL7815'POINT IS RECESSED 0.2 FT (0.1 M) BELOW THE LEVEL OF THE NATIONAL  
 DL7815'GEODETIC SURVEY LOGO CAP.

DL7815'

DL7815'LOCATED 15.0 FT (4.6 M) EAST OF THE APPROXIMATE CENTERLINE OF L-8  
 DL7815'LEVEE ROAD, 2.0 FT (0.6 M) EAST OF THE EAST EDGE OF THE L-8 LEVEE ROAD  
 DL7815'AND 1.7 FT (0.5 M) WEST OF A CARSONITE WITNESS POST.

DL7815'

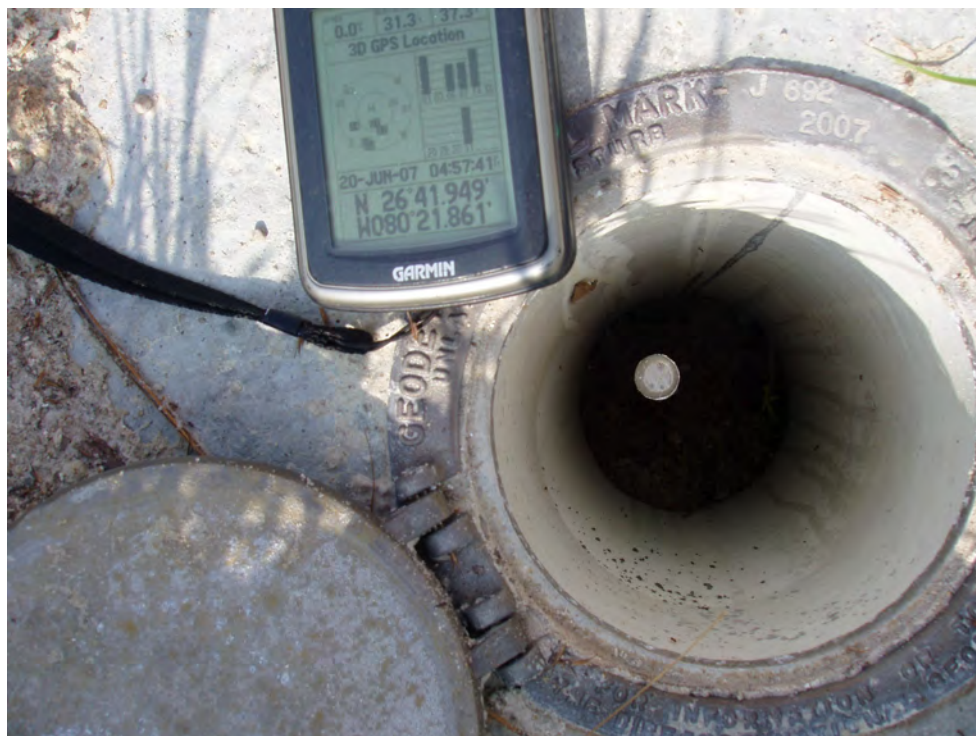
DL7815'NOTE A MAGNET WAS PLACED INSIDE OF THE NATIONAL GEODETIC SURVEY LOGO  
 DL7815'CAP.

DL7815'

DL7815'NOTE ACCESS TO THE DATUM POINT IS HAD THROUGH A 5-INCH (13 CM)  
 DL7815'NATIONAL GEODETIC SURVEY LOGO CAP.

\*\*\* retrieval complete.

Elapsed Time = 00:00:01



Project Information		Coordinate System	
Name:	S:\IN-HOUSE PROJECTS\L8 WELLS 7-14-14\4- Digital Files\Digital Level\Trimble Project\L8FEB1.vce	Name:	Default
Size:	128 KB	Datum:	WGS 1984
Modified:	7/31/2014 10:19:40 AM (UTC:-4)	Zone:	Default
Time zone:	Eastern Standard Time	Geoid:	
Reference number:		Vertical datum:	
Description:			

## Level Report

**Imported file:** [L8FEB1.DAT](#)  
**Instrument:** DiNi  
**Standard error per kilometer of double leveling:** 0.00230 ft  
**Standard error per turn/station setup:** 0.00000 ft  
**Creation option:** Delta elevations  
**Description usage:** Feature codes

### Run - 1 Raw Observations

**Raw Misclosure:** 0.00100 ft  
**Σ BS Distances:** 1730.740 ft  
**Σ FS Distances:** 1771.950 ft  
**Run Length:** 3502.690 ft  
**Reduction:** Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/> 5.31100 ft			0.00000 ft	23.710 ft	0.00000 ft	23.710 ft ▲	Benchmark	225.920 ft	M692 3
<input type="checkbox"/>	2			<input checked="" type="checkbox"/> 4.72700 ft	0.58400 ft	24.294 ft	-0.00014 ft	24.294 ft	Computed	225.460 ft	3
	2	<input checked="" type="checkbox"/> 6.61600 ft								222.770 ft	3
<input type="checkbox"/>	3			<input checked="" type="checkbox"/> 5.42300 ft	1.19300 ft	25.487 ft	-0.00028 ft	25.487 ft	Computed	223.100 ft	3
	3	<input checked="" type="checkbox"/> 3.00700 ft								227.720 ft	3
<input type="checkbox"/>	4			<input checked="" type="checkbox"/> 7.38900 ft	-4.38200 ft	21.105 ft	-0.00045 ft	21.105 ft	Computed	256.630 ft	3
	4	<input checked="" type="checkbox"/> 9.32600 ft								120.310 ft	3
<input type="checkbox"/>	5			<input checked="" type="checkbox"/> 2.00600 ft	7.32000 ft	28.425 ft	-0.00048 ft	28.425 ft	Computed	102.100 ft	3
	5	<input checked="" type="checkbox"/> 4.71600 ft								75.430 ft	3
<input checked="" type="checkbox"/>	6			<input checked="" type="checkbox"/> 3.32000 ft	1.39600 ft	29.821 ft	-0.00050 ft	29.821 ft	Computed	69.420 ft	FEB1 3
	6	<input checked="" type="checkbox"/> 3.40500 ft								69.160 ft	FEB1 3

<input type="checkbox"/>	7		<input checked="" type="checkbox"/> 4.86900 ft	-1.46400 ft	28.357 ft	-0.00051 ft	28.356 ft	Computed	75.300 ft	3
	7	<input checked="" type="checkbox"/> 2.23200 ft							102.000 ft	3
<input type="checkbox"/>	8		<input checked="" type="checkbox"/> 9.53800 ft	-7.30600 ft	21.051 ft	-0.00055 ft	21.050 ft	Computed	121.100 ft	3
	8	<input checked="" type="checkbox"/> 6.87900 ft							239.530 ft	3
<input type="checkbox"/>	9		<input checked="" type="checkbox"/> 2.50500 ft	4.37400 ft	25.425 ft	-0.00072 ft	25.424 ft	Computed	250.160 ft	3
	9	<input checked="" type="checkbox"/> 5.87300 ft							223.130 ft	3
<input type="checkbox"/>	10		<input checked="" type="checkbox"/> 6.94500 ft	-1.07200 ft	24.353 ft	-0.00086 ft	24.352 ft	Computed	223.390 ft	3
	10	<input checked="" type="checkbox"/> 4.63100 ft							224.770 ft	3
<input checked="" type="checkbox"/>	11		<input checked="" type="checkbox"/> 5.27300 ft	-0.64200 ft	23.711 ft	-0.00100 ft	23.710 ft ▲	Benchmark	225.290 ft	M692 3

**Run - 1 (N1) Reduced Observations**

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
<a href="#">1-6 (E1)</a>	Enabled	6.11100 ft	-0.00050 ft	6.11050 ft	5	1748.860 ft	28.97600 ft	22.86500 ft	0.02194 ft
<a href="#">6-11 (E2)</a>	Enabled	-6.11000 ft	-0.00050 ft	-6.11050 ft	5	1753.830 ft	23.02000 ft	29.13000 ft	0.02202 ft

**Run - 1 (N1) Reduced Coordinates**

Point ID	Status	Elevation
<a href="#">1</a>	Enabled	23.71000 ft
<a href="#">11</a>	Enabled	23.71000 ft

**Run - 1001 Raw Observations**

Raw Misclosure: ?

Σ BS Distances: 16.040 ft

Σ FS Distances: 17.520 ft

Run Length: 33.560 ft

Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	6	<input checked="" type="checkbox"/> 4.79800 ft			0.00000 ft	29.821 ft	-0.00050 ft	29.821 ft	Computed	16.040 ft	FEB1 3
<input checked="" type="checkbox"/>	12			<input checked="" type="checkbox"/> 0.89800 ft	3.90000 ft	33.721 ft	-0.00050 ft	33.721 ft	Computed	17.520 ft	REF1U 3
<input checked="" type="checkbox"/>	13		<input checked="" type="checkbox"/> 0.80800 ft		3.99000 ft	33.811 ft	-0.00050 ft	33.811 ft	Computed	19.160 ft	REF1M 3
<input checked="" type="checkbox"/>	14		<input checked="" type="checkbox"/> 0.68400 ft		4.11400 ft	33.935 ft	-0.00050 ft	33.935 ft	Computed	28.610 ft	REF1L 3
<input checked="" type="checkbox"/>	15		<input checked="" type="checkbox"/> 4.01400 ft		0.78400 ft	30.605 ft	-0.00050 ft	30.605 ft	Computed	28.020 ft	GR1L 3

			ft								
<input checked="" type="checkbox"/>	16		<input checked="" type="checkbox"/> 4.25500 ft		0.54300 ft	30.364 ft	-0.00050 ft	30.364 ft	Computed	18.140 ft	GR1M 3
<input checked="" type="checkbox"/>	17		<input checked="" type="checkbox"/> 4.30800 ft		0.49000 ft	30.311 ft	-0.00050 ft	30.311 ft	Computed	16.270 ft	GR1U 3
<input checked="" type="checkbox"/>	18		<input checked="" type="checkbox"/> 4.79700 ft		0.00100 ft	29.822 ft	-0.00050 ft	29.822 ft	Computed	16.010 ft	FEB1 3

**Run - 10001 (N2) Reduced Observations**

Observation	Status	Raw $\Delta$ Elevation	Correction	Final $\Delta$ Elevation	Setups	Length	$\Sigma$ BS Readings	$\Sigma$ FS Readings	Std. Error
<a href="#">6-12 (E3)</a>	Enabled	3.90000 ft	0.00000 ft	3.90000 ft	1	33.560 ft	4.79800 ft	0.89800 ft	0.00088 ft
<a href="#">6-13 (E4)</a>	Enabled	3.99000 ft	0.00000 ft	3.99000 ft	1	35.200 ft	4.79800 ft	0.80800 ft	0.00092 ft
<a href="#">6-14 (E5)</a>	Enabled	4.11400 ft	0.00000 ft	4.11400 ft	1	44.650 ft	4.79800 ft	0.68400 ft	0.00116 ft
<a href="#">6-15 (E6)</a>	Enabled	0.78400 ft	0.00000 ft	0.78400 ft	1	44.060 ft	4.79800 ft	4.01400 ft	0.00115 ft
<a href="#">6-16 (E7)</a>	Enabled	0.54300 ft	0.00000 ft	0.54300 ft	1	34.180 ft	4.79800 ft	4.25500 ft	0.00089 ft
<a href="#">6-17 (E8)</a>	Enabled	0.49000 ft	0.00000 ft	0.49000 ft	1	32.310 ft	4.79800 ft	4.30800 ft	0.00084 ft
<a href="#">6-18 (E9)</a>	Enabled	0.00100 ft	0.00000 ft	0.00100 ft	1	32.050 ft	4.79800 ft	4.79700 ft	0.00084 ft

Date: 7/31/2014 10:19:44 AM	Project: S:\IN-HOUSE PROJECTS\L8 WELLS 7-14-14\4- Digital Files\Digital Level\Trimble Project\L8FEB1.vce	Trimble Business Center
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Project Information		Coordinate System	
Name:	S:\IN-HOUSE PROJECTS\L8 WELLS 7-14-14\4- Digital Files\Digital Level\Trimble Project\L8FEB2.vce	Name:	Default
Size:	148 KB	Datum:	WGS 1984
Modified:	7/31/2014 10:25:34 AM (UTC:-4)	Zone:	Default
Time zone:	Eastern Standard Time	Geoid:	
Reference number:		Vertical datum:	
Description:			

## Level Report

**Imported file:** [L8FEB2.DAT](#)  
**Instrument:** DiNi  
**Standard error per kilometer of double leveling:** 0.00230 ft  
**Standard error per turn/station setup:** 0.00000 ft  
**Creation option:** Delta elevations  
**Description usage:** Feature codes

### Run - 1 Raw Observations

**Raw Misclosure:** -0.00500 ft  
**Σ BS Distances:** 864.470 ft  
**Σ FS Distances:** 865.680 ft  
**Run Length:** 1730.150 ft  
**Reduction:** Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/> 3.33800 ft			0.00000 ft	21.750 ft	0.00000 ft	21.750 ft ▲	Benchmark	158.460 ft	J692 3
<input type="checkbox"/>	2			<input checked="" type="checkbox"/> 5.23400 ft	-1.89600 ft	19.854 ft	0.00102 ft	19.855 ft	Computed	162.890 ft	3
	2	<input checked="" type="checkbox"/> 8.59500 ft								117.420 ft	3
<input type="checkbox"/>	3			<input checked="" type="checkbox"/> 1.14300 ft	7.45200 ft	27.306 ft	0.00162 ft	27.308 ft	Computed	128.770 ft	3
	3	<input checked="" type="checkbox"/> 6.18500 ft								150.000 ft	3
<input checked="" type="checkbox"/>	4			<input checked="" type="checkbox"/> 4.74300 ft	1.44200 ft	28.748 ft	0.00249 ft	28.750 ft	Computed	146.690 ft	FEB2 3
	4	<input checked="" type="checkbox"/> 4.43200 ft								146.690 ft	FEB2 3
<input type="checkbox"/>	5			<input checked="" type="checkbox"/> 5.87500 ft	-1.44300 ft	27.305 ft	0.00336 ft	27.308 ft	Computed	149.640 ft	3
	5	<input checked="" type="checkbox"/> 1.17700 ft								128.710 ft	3
<input type="checkbox"/>	6			<input checked="" type="checkbox"/> 8.59100 ft	-7.41400 ft	19.891 ft	0.00396 ft	19.895 ft	Computed	117.590 ft	3
	6	<input checked="" type="checkbox"/> 5.13500 ft								163.190 ft	3



1	<input checked="" type="checkbox"/> 3.28100 ft	1.85400 ft	21.745 ft	0.00500 ft	21.750 ft	Benchmark	160.100 ft	J692 3
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**Run - 1 (N1) Reduced Observations**

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
<a href="#">1-4 (E1)</a>	Enabled	6.99800 ft	0.00249 ft	7.00049 ft	3	864.230 ft	18.11800 ft	11.12000 ft	0.01309 ft
<a href="#">4-1 (E2)</a>	Enabled	-7.00300 ft	0.00251 ft	-7.00049 ft	3	865.920 ft	10.74400 ft	17.74700 ft	0.01312 ft

**Run - 1 (N1) Reduced Coordinates**

Point ID	Status	Elevation
<a href="#">1</a>	Enabled	21.75000 ft

**Run - 10001 Raw Observations**

Raw Misclosure: ?

Σ BS Distances: 34.090 ft

Σ FS Distances: 45.310 ft

Run Length: 79.400 ft

Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/> 5.60200 ft			0.00000 ft	28.748 ft	0.00249 ft	28.750 ft	Computed	34.090 ft	FEB2 3
<input checked="" type="checkbox"/>	8			<input checked="" type="checkbox"/> 1.58000 ft	4.02200 ft	32.770 ft	0.00249 ft	32.772 ft	Computed	45.310 ft	REF2U 3
<input checked="" type="checkbox"/>	9		<input checked="" type="checkbox"/> 1.25800 ft		4.34400 ft	33.092 ft	0.00249 ft	33.094 ft	Computed	36.550 ft	REF2M 3
<input checked="" type="checkbox"/>	10		<input checked="" type="checkbox"/> 1.35600 ft		4.24600 ft	32.994 ft	0.00249 ft	32.996 ft	Computed	32.250 ft	REF2L 3
<input checked="" type="checkbox"/>	11		<input checked="" type="checkbox"/> 4.88700 ft		0.71500 ft	29.463 ft	0.00249 ft	29.465 ft	Computed	30.810 ft	GR2L 3
<input checked="" type="checkbox"/>	12		<input checked="" type="checkbox"/> 4.75500 ft		0.84700 ft	29.595 ft	0.00249 ft	29.597 ft	Computed	35.100 ft	GR2M 3
<input checked="" type="checkbox"/>	13		<input checked="" type="checkbox"/> 4.99800 ft		0.60400 ft	29.352 ft	0.00249 ft	29.354 ft	Computed	44.130 ft	GR2U 3
<input checked="" type="checkbox"/>	14		<input checked="" type="checkbox"/> 5.60100 ft		0.00100 ft	28.749 ft	0.00249 ft	28.751 ft	Computed	34.120 ft	FEB2 3

**Run - 10001 (N2) Reduced Observations**

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
<a href="#">4-8 (E3)</a>	Enabled	4.02200 ft	0.00000 ft	4.02200 ft	1	79.400 ft	5.60200 ft	1.58000 ft	0.00207 ft
<a href="#">4-9 (E4)</a>	Enabled	4.34400 ft	0.00000 ft	4.34400 ft	1	70.640 ft	5.60200 ft	1.25800 ft	0.00184 ft
<a href="#">4-10 (E5)</a>	Enabled	4.24600 ft	0.00000 ft	4.24600 ft	1	66.340 ft	5.60200 ft	1.35600 ft	0.00173 ft
						64.900			

<a href="#">4-11 (E6)</a>	Enabled	0.71500 ft	0.00000 ft	0.71500 ft	1	ft	5.60200 ft	4.88700 ft	0.00169 ft
<a href="#">4-12 (E7)</a>	Enabled	0.84700 ft	0.00000 ft	0.84700 ft	1	69.190 ft	5.60200 ft	4.75500 ft	0.00180 ft
<a href="#">4-13 (E8)</a>	Enabled	0.60400 ft	0.00000 ft	0.60400 ft	1	78.220 ft	5.60200 ft	4.99800 ft	0.00204 ft
<a href="#">4-14 (E9)</a>	Enabled	0.00100 ft	0.00000 ft	0.00100 ft	1	68.210 ft	5.60200 ft	5.60100 ft	0.00178 ft

**Run - 3 Raw Observations**

**Raw Misclosure:** 0.00100 ft  
**Σ BS Distances:** 2690.200 ft  
**Σ FS Distances:** 2694.130 ft  
**Run Length:** 5384.330 ft  
**Reduction:** Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	4	<input checked="" type="checkbox"/> 6.16300 ft			0.00000 ft	28.748 ft	0.00249 ft	28.750 ft	Computed	180.480 ft	FEB2 3
<input type="checkbox"/>	50			<input checked="" type="checkbox"/> 4.43300 ft	1.73000 ft	30.478 ft	0.00243 ft	30.480 ft	Computed	185.730 ft	3
	50	<input checked="" type="checkbox"/> 5.66300 ft								229.990 ft	3
<input type="checkbox"/>	51			<input checked="" type="checkbox"/> 1.21800 ft	4.44500 ft	34.923 ft	0.00234 ft	34.925 ft	Computed	226.380 ft	3
	51	<input checked="" type="checkbox"/> 3.42800 ft								225.030 ft	3
<input type="checkbox"/>	52			<input checked="" type="checkbox"/> 3.98400 ft	-0.55600 ft	34.367 ft	0.00225 ft	34.369 ft	Computed	223.590 ft	3
	52	<input checked="" type="checkbox"/> 5.07700 ft								230.220 ft	3
<input type="checkbox"/>	53			<input checked="" type="checkbox"/> 5.18900 ft	-0.11200 ft	34.255 ft	0.00216 ft	34.257 ft	Computed	226.570 ft	3
	53	<input checked="" type="checkbox"/> 4.98300 ft								230.350 ft	3
<input type="checkbox"/>	54			<input checked="" type="checkbox"/> 4.96700 ft	0.01600 ft	34.271 ft	0.00206 ft	34.273 ft	Computed	233.990 ft	3
	54	<input checked="" type="checkbox"/> 3.96200 ft								191.930 ft	3
<input type="checkbox"/>	55			<input checked="" type="checkbox"/> 4.86600 ft	-0.90400 ft	33.367 ft	0.00200 ft	33.369 ft	Computed	182.610 ft	3
	55	<input checked="" type="checkbox"/> 4.43700 ft								64.930 ft	3
<input checked="" type="checkbox"/>	56			<input checked="" type="checkbox"/> 6.21400 ft	-1.77700 ft	31.590 ft	0.00199 ft	31.592 ft	Computed	60.070 ft	FEB3
	56	<input checked="" type="checkbox"/> 5.93200 ft								60.430 ft	3
<input type="checkbox"/>	57			<input checked="" type="checkbox"/> 4.15600 ft	1.77600 ft	33.366 ft	0.00199 ft	33.368 ft	Computed	64.700 ft	3
	57	<input checked="" type="checkbox"/> 4.95900 ft								182.910 ft	3

<input type="checkbox"/>	58		<input checked="" type="checkbox"/> 3.94700 ft	1.01200 ft	34.378 ft	0.00193 ft	34.380 ft	Computed	191.210 ft	3
	58	<input checked="" type="checkbox"/> 4.88600 ft							233.400 ft	3
<input type="checkbox"/>	59		<input checked="" type="checkbox"/> 5.12100 ft	-0.23500 ft	34.143 ft	0.00183 ft	34.145 ft	Computed	231.330 ft	3
	59	<input checked="" type="checkbox"/> 5.25300 ft							226.670 ft	3
<input type="checkbox"/>	60		<input checked="" type="checkbox"/> 5.08400 ft	0.16900 ft	34.312 ft	0.00174 ft	34.314 ft	Computed	229.860 ft	3
	60	<input checked="" type="checkbox"/> 3.81500 ft							221.590 ft	3
<input type="checkbox"/>	61		<input checked="" type="checkbox"/> 3.28600 ft	0.52900 ft	34.841 ft	0.00165 ft	34.843 ft	Computed	225.750 ft	3
	61	<input checked="" type="checkbox"/> 1.42700 ft							226.570 ft	3
<input type="checkbox"/>	62		<input checked="" type="checkbox"/> 5.80000 ft	-4.37300 ft	30.468 ft	0.00156 ft	30.470 ft	Computed	229.300 ft	3
	62	<input checked="" type="checkbox"/> 4.26500 ft							185.700 ft	3
	4		<input checked="" type="checkbox"/> 5.98400 ft	-1.71900 ft	28.749 ft	0.00149 ft	28.750 ft	Computed	183.040 ft	FEB2 3

**Run - 3 (N3) Reduced Observations**

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
<a href="#">4-56 (E10)</a>	Enabled	2.84200 ft	-0.00050 ft	2.84150 ft	7	2691.870 ft	33.71300 ft	30.87100 ft	0.02766 ft
<a href="#">56-4 (E11)</a>	Enabled	-2.84100 ft	-0.00050 ft	-2.84150 ft	7	2692.460 ft	30.53700 ft	33.37800 ft	0.02766 ft

**Run - 10002 Raw Observations**

Raw Misclosure: ?

Σ BS Distances: 27.070 ft

Σ FS Distances: 22.570 ft

Run Length: 49.640 ft

Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	56	<input checked="" type="checkbox"/> 5.03800 ft			0.00000 ft	31.590 ft	0.00199 ft	31.592 ft	Computed	27.070 ft	FEB3
<input checked="" type="checkbox"/>	64			<input checked="" type="checkbox"/> 0.88100 ft	4.15700 ft	35.747 ft	0.00199 ft	35.749 ft	Computed	22.570 ft	REF3U 3
<input checked="" type="checkbox"/>	65		<input checked="" type="checkbox"/> 0.91500 ft		4.12300 ft	35.713 ft	0.00199 ft	35.715 ft	Computed	30.120 ft	REF3M 3
<input checked="" type="checkbox"/>	66		<input checked="" type="checkbox"/> 0.60900 ft		4.42900 ft	36.019 ft	0.00199 ft	36.021 ft	Computed	39.800 ft	REF3L 3
<input checked="" type="checkbox"/>	67		<input checked="" type="checkbox"/> 4.07800 ft		0.96000 ft	32.550 ft	0.00199 ft	32.552 ft	Computed	39.300 ft	GR3L 3
			<input checked="" type="checkbox"/> 4.43300		0.60500						

<input checked="" type="checkbox"/>	68		ft		ft	32.195 ft	0.00199 ft	32.197 ft	Computed	29.360 ft	GR3M 3
<input checked="" type="checkbox"/>	69	<input checked="" type="checkbox"/>	4.39100 ft		0.64700 ft	32.237 ft	0.00199 ft	32.239 ft	Computed	21.360 ft	GR3U 3
<input checked="" type="checkbox"/>	70	<input checked="" type="checkbox"/>	5.03900 ft		-0.00100 ft	31.589 ft	0.00199 ft	31.591 ft	Computed	27.070 ft	FEB3 3

**Run - 10002 (N4) Reduced Observations**

Observation	Status	Raw $\Delta$ Elevation	Correction	Final $\Delta$ Elevation	Setups	Length	$\Sigma$ BS Readings	$\Sigma$ FS Readings	Std. Error
<a href="#">56-64 (E12)</a>	Enabled	4.15700 ft	0.00000 ft	4.15700 ft	1	49.640 ft	5.03800 ft	0.88100 ft	0.00129 ft
<a href="#">56-65 (E13)</a>	Enabled	4.12300 ft	0.00000 ft	4.12300 ft	1	57.190 ft	5.03800 ft	0.91500 ft	0.00149 ft
<a href="#">56-66 (E14)</a>	Enabled	4.42900 ft	0.00000 ft	4.42900 ft	1	66.870 ft	5.03800 ft	0.60900 ft	0.00174 ft
<a href="#">56-67 (E15)</a>	Enabled	0.96000 ft	0.00000 ft	0.96000 ft	1	66.370 ft	5.03800 ft	4.07800 ft	0.00173 ft
<a href="#">56-68 (E16)</a>	Enabled	0.60500 ft	0.00000 ft	0.60500 ft	1	56.430 ft	5.03800 ft	4.43300 ft	0.00147 ft
<a href="#">56-69 (E17)</a>	Enabled	0.64700 ft	0.00000 ft	0.64700 ft	1	48.430 ft	5.03800 ft	4.39100 ft	0.00126 ft
<a href="#">56-70 (E18)</a>	Enabled	-0.00100 ft	0.00000 ft	-0.00100 ft	1	54.140 ft	5.03800 ft	5.03900 ft	0.00141 ft

Date: 7/31/2014 10:25:38 AM	Project: SAIN-HOUSE PROJECTS\L8 WELLS 7-14-14\4- Digital Files\Digital Level\Trimble Project\L8FEB2.vce	Trimble Business Center
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Project Information		Coordinate System	
Name:	S:\IN-HOUSE PROJECTS\L8 WELLS 7-14-14\4- Digital Files\Digital Level\Trimble Project\L8FEB4.vce	Name:	Default
Size:	123 KB	Datum:	WGS 1984
Modified:	7/31/2014 10:28:57 AM (UTC:-4)	Zone:	Default
Time zone:	Eastern Standard Time	Geoid:	
Reference number:		Vertical datum:	
Description:			

### Level Report

No adjustment needed.  
Closed flat.

**Imported file:** [L8FEB4.DAT](#)  
**Instrument:** DiNi  
**Standard error per kilometer of double leveling:** 0.00230 ft  
**Standard error per turn/station setup:** 0.00000 ft  
**Creation option:** Delta elevations  
**Description usage:** Feature codes



#### Run - 1 Raw Observations

**Raw Misclosure:** 0.00000 ft  
**Σ BS Distances:** 3120.110 ft  
**Σ FS Distances:** 3111.810 ft  
**Run Length:** 6231.920 ft  
**Reduction:** Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/> 2.46700 ft			0.00000 ft	21.570 ft	0.00000 ft	21.570 ft ▲	Benchmark	194.980 ft	BMST5 3
<input type="checkbox"/>	2			<input checked="" type="checkbox"/> 5.52600 ft	-3.05900 ft	18.511 ft	?	?	Computed	188.190 ft	3
	2	<input checked="" type="checkbox"/> 4.89200 ft								210.890 ft	3
<input type="checkbox"/>	3			<input checked="" type="checkbox"/> 5.05100 ft	-0.15900 ft	18.352 ft	?	?	Computed	189.140 ft	3
	3	<input checked="" type="checkbox"/> 5.31000 ft								203.180 ft	3
<input type="checkbox"/>	4			<input checked="" type="checkbox"/> 5.29500 ft	0.01500 ft	18.367 ft	?	?	Computed	188.480 ft	3
	4	<input checked="" type="checkbox"/> 5.15500 ft								193.830 ft	3
<input type="checkbox"/>	5			<input checked="" type="checkbox"/> 5.17700 ft	-0.02200 ft	18.345 ft	?	?	Computed	190.520 ft	3
	5	<input checked="" type="checkbox"/> 4.99900 ft								191.400 ft	3
<input type="checkbox"/>	6			<input checked="" type="checkbox"/> 4.93800 ft	0.06100 ft	18.406 ft	?	?	Computed	190.290 ft	3
	6	<input checked="" type="checkbox"/> 5.04800 ft								190.490 ft	3

<input type="checkbox"/>	7		<input checked="" type="checkbox"/> 5.19000 ft	-0.14200 ft	18.264 ft	?	?	Computed	184.650 ft	3
	7	<input checked="" type="checkbox"/> 5.10800 ft							190.260 ft	3
<input type="checkbox"/>	8		<input checked="" type="checkbox"/> 4.87700 ft	0.23100 ft	18.495 ft	?	?	Computed	186.320 ft	3
	8	<input checked="" type="checkbox"/> 4.73900 ft							210.040 ft	3
<input checked="" type="checkbox"/>	9		<input checked="" type="checkbox"/> 5.18000 ft	-0.44100 ft	18.054 ft	?	?	Computed	213.290 ft	BMFE4 3
	9	<input checked="" type="checkbox"/> 5.40900 ft							212.930 ft	BMFE4 3
<input type="checkbox"/>	10		<input checked="" type="checkbox"/> 4.96800 ft	0.44100 ft	18.495 ft	?	?	Computed	210.070 ft	3
	10	<input checked="" type="checkbox"/> 5.08100 ft							186.290 ft	3
<input type="checkbox"/>	11		<input checked="" type="checkbox"/> 4.99800 ft	0.08300 ft	18.578 ft	?	?	Computed	189.990 ft	3
	11	<input checked="" type="checkbox"/> 5.07200 ft							185.070 ft	3
<input type="checkbox"/>	12		<input checked="" type="checkbox"/> 5.20100 ft	-0.12900 ft	18.449 ft	?	?	Computed	190.290 ft	3
	12	<input checked="" type="checkbox"/> 5.17000 ft							190.710 ft	3
<input type="checkbox"/>	13		<input checked="" type="checkbox"/> 5.28000 ft	-0.11000 ft	18.339 ft	?	?	Computed	191.110 ft	3
	13	<input checked="" type="checkbox"/> 5.17300 ft							190.850 ft	3
<input type="checkbox"/>	14		<input checked="" type="checkbox"/> 5.12800 ft	0.04500 ft	18.384 ft	?	?	Computed	193.700 ft	3
	14	<input checked="" type="checkbox"/> 5.31000 ft							191.400 ft	3
<input type="checkbox"/>	15		<input checked="" type="checkbox"/> 5.33200 ft	-0.02200 ft	18.362 ft	?	?	Computed	200.950 ft	3
	15	<input checked="" type="checkbox"/> 5.18800 ft							189.730 ft	3
<input type="checkbox"/>	16		<input checked="" type="checkbox"/> 5.03500 ft	0.15300 ft	18.515 ft	?	?	Computed	209.840 ft	3
	16	<input checked="" type="checkbox"/> 5.67000 ft							188.060 ft	3
<input checked="" type="checkbox"/>	17		<input checked="" type="checkbox"/> 2.61500 ft	3.05500 ft	21.570 ft	0.00000 ft	21.570 ft ▲	Benchmark	194.980 ft	BMST5 3

**Run - 1 (N1) Reduced Observations**

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
<a href="#">1-9 (E1)</a>	Enabled	-3.51600 ft	?	?	8	3115.950 ft	37.71800 ft	41.23400 ft	0.02876 ft
<a href="#">9-17 (E2)</a>	Enabled	3.51600 ft	?	?	8	3115.970 ft	42.07300 ft	38.55700 ft	0.02876 ft

**Run - 1 (N1) Reduced Coordinates**

Point ID	Status	Elevation
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<a href="#">1</a>	Enabled	21.57000 ft
<a href="#">17</a>	Enabled	21.57000 ft

### Run - 10001 Raw Observations

Raw Misclosure: ?

Σ BS Distances: 41.400 ft

Σ FS Distances: 63.620 ft

Run Length: 105.020 ft

Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	9	<input checked="" type="checkbox"/> 5.08400 ft			0.00000 ft	18.054 ft	?	?	Computed	41.400 ft	BMFE4 3
<input checked="" type="checkbox"/>	18			<input checked="" type="checkbox"/> 4.48100 ft	0.60300 ft	18.657 ft	?	?	Computed	63.620 ft	REF4U 3
<input checked="" type="checkbox"/>	19		<input checked="" type="checkbox"/> 4.44200 ft		0.64200 ft	18.696 ft	?	?	Computed	52.260 ft	REF4L 3
<input checked="" type="checkbox"/>	20		<input checked="" type="checkbox"/> 4.43400 ft		0.65000 ft	18.704 ft	?	?	Computed	44.650 ft	REF4M 3
<input checked="" type="checkbox"/>	21		<input checked="" type="checkbox"/> 7.97100 ft		-2.88700 ft	15.167 ft	?	?	Computed	43.770 ft	4MG 3
<input checked="" type="checkbox"/>	22		<input checked="" type="checkbox"/> 7.77300 ft		-2.68900 ft	15.365 ft	?	?	Computed	53.250 ft	4LG 3
<input checked="" type="checkbox"/>	23		<input checked="" type="checkbox"/> 7.87000 ft		-2.78600 ft	15.268 ft	?	?	Computed	63.580 ft	4UG 3
<input checked="" type="checkbox"/>	24		<input checked="" type="checkbox"/> 5.08400 ft		0.00000 ft	18.054 ft	?	?	Computed	41.400 ft	BMFE4 3

### Run - 10001 (N2) Reduced Observations

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
<a href="#">9-18 (E3)</a>	Enabled	0.60300 ft	?	?	1	105.020 ft	5.08400 ft	4.48100 ft	0.00274 ft
<a href="#">9-19 (E4)</a>	Enabled	0.64200 ft	?	?	1	93.660 ft	5.08400 ft	4.44200 ft	0.00244 ft
<a href="#">9-20 (E5)</a>	Enabled	0.65000 ft	?	?	1	86.050 ft	5.08400 ft	4.43400 ft	0.00224 ft
<a href="#">9-21 (E6)</a>	Enabled	-2.88700 ft	?	?	1	85.170 ft	5.08400 ft	7.97100 ft	0.00222 ft
<a href="#">9-22 (E7)</a>	Enabled	-2.68900 ft	?	?	1	94.650 ft	5.08400 ft	7.77300 ft	0.00247 ft
<a href="#">9-23 (E8)</a>	Enabled	-2.78600 ft	?	?	1	104.980 ft	5.08400 ft	7.87000 ft	0.00274 ft
<a href="#">9-24 (E9)</a>	Enabled	0.00000 ft	?	?	1	82.800 ft	5.08400 ft	5.08400 ft	0.00216 ft

Date: 7/31/2014 10:29:18 AM	Project: S\IN-HOUSE PROJECTS\L8 WELLS 7-14-14\4- Digital Files\Digital Level\Trimble Project\L8FEB4.vce	Trimble Business Center
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Project Information		Coordinate System	
Name:	S:\IN-HOUSE PROJECTS\L8 WELLS 7-14-14\4- Digital Files\Digital Level\Trimble Project\L8FEB5.vce	Name:	Default
Size:	118 KB	Datum:	WGS 1984
Modified:	7/31/2014 10:31:43 AM (UTC:-4)	Zone:	Default
Time zone:	Eastern Standard Time	Geoid:	
Reference number:		Vertical datum:	
Description:			

## Level Report

**Imported file:** [L8FEB5.DAT](#)  
**Instrument:** DiNi  
**Standard error per kilometer of double leveling:** 0.00230 ft  
**Standard error per turn/station setup:** 0.00000 ft  
**Creation option:** Delta elevations  
**Description usage:** Feature codes

### Run - 10001 Raw Observations





**Raw Misclosure:** ?  
**Σ BS Distances:** 58.200 ft  
**Σ FS Distances:** 33.990 ft  
**Run Length:** 92.190 ft  
**Reduction:** Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/> 4.39400 ft			0.00000 ft	15.740 ft	0.00000 ft	15.740 ft ▲	Benchmark	58.200 ft	BM6 3
<input checked="" type="checkbox"/>	2			<input checked="" type="checkbox"/> 1.18000 ft	3.21400 ft	18.954 ft	0.00000 ft	18.954 ft	Computed	33.990 ft	REF5L 3
<input checked="" type="checkbox"/>	3		<input checked="" type="checkbox"/> 1.56400 ft		2.83000 ft	18.570 ft	0.00000 ft	18.570 ft	Computed	34.120 ft	REF5U 3
<input checked="" type="checkbox"/>	4		<input checked="" type="checkbox"/> 1.67600 ft		2.71800 ft	18.458 ft	0.00000 ft	18.458 ft	Computed	37.570 ft	REF5M 3
<input checked="" type="checkbox"/>	5		<input checked="" type="checkbox"/> 5.11100 ft		-0.71700 ft	15.023 ft	0.00000 ft	15.023 ft	Computed	37.110 ft	5MGR 3
<input checked="" type="checkbox"/>	6		<input checked="" type="checkbox"/> 4.87300 ft		-0.47900 ft	15.261 ft	0.00000 ft	15.261 ft	Computed	34.250 ft	5UGR 3
<input checked="" type="checkbox"/>	7		<input checked="" type="checkbox"/> 4.64700 ft		-0.25300 ft	15.487 ft	0.00000 ft	15.487 ft	Computed	34.580 ft	5LGR 3
<input checked="" type="checkbox"/>	8		<input checked="" type="checkbox"/> 4.39400 ft		0.00000 ft	15.740 ft	0.00000 ft	15.740 ft	Computed	58.170 ft	BM6 3


### Run - 10001 (N1) Reduced Observations

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
<a href="#">1-2 (E1)</a>	Enabled	3.21400 ft	0.00000 ft	3.21400 ft	1	92.190 ft	4.39400 ft	1.18000 ft	0.00241 ft
<a href="#">1-3 (E2)</a>	Enabled	2.83000 ft	0.00000 ft	2.83000 ft	1	92.320 ft	4.39400 ft	1.56400 ft	0.00241 ft
<a href="#">1-4 (E3)</a>	Enabled	2.71800 ft	0.00000 ft	2.71800 ft	1	95.770 ft	4.39400 ft	1.67600 ft	0.00250 ft



 <a href="#">1-5 (E4)</a>	Enabled	-0.71700 ft	0.00000 ft	-0.71700 ft	1	95.310 ft	4.39400 ft	5.11100 ft	0.00249 ft
 <a href="#">1-6 (E5)</a>	Enabled	-0.47900 ft	0.00000 ft	-0.47900 ft	1	92.450 ft	4.39400 ft	4.87300 ft	0.00241 ft
 <a href="#">1-7 (E6)</a>	Enabled	-0.25300 ft	0.00000 ft	-0.25300 ft	1	92.780 ft	4.39400 ft	4.64700 ft	0.00242 ft
 <a href="#">1-8 (E7)</a>	Enabled	0.00000 ft	0.00000 ft	0.00000 ft	1	116.370 ft	4.39400 ft	4.39400 ft	0.00304 ft

**[Run - 10001 \(N1\)](#) Reduced Coordinates**

Point ID	Status	Elevation
 <a href="#">1</a>	Enabled	15.74000 ft

Date: 7/31/2014 10:31:46 AM	Project: S:\IN-HOUSE PROJECTS\L8 WELLS 7-14-14\4- Digital Files\Digital Level\Trimble Project\L8FEB5.vce	Trimble Business Center
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Project Information		Coordinate System	
Name:	S:\IN-HOUSE PROJECTS\L8 WELLS 7-14-14\4- Digital Files\Digital Level\Trimble Project\L8PZ5.vce	Name:	Default
Size:	122 KB	Datum:	WGS 1984
Modified:	7/31/2014 10:33:32 AM (UTC:-4)	Zone:	Default
Time zone:	Eastern Standard Time	Geoid:	
Reference number:		Vertical datum:	
Description:			

## Level Report

**Imported file:** [L8PZ5.DAT](#)  
**Instrument:** DiNi  
**Standard error per kilometer of double leveling:** 0.00230 ft  
**Standard error per turn/station setup:** 0.00000 ft  
**Creation option:** Delta elevations  
**Description usage:** Feature codes










### Run - 10001 Raw Observations

**Raw Misclosure:** ?  
**Σ BS Distances:** 76.020 ft  
**Σ FS Distances:** 56.690 ft  
**Run Length:** 132.710 ft  
**Reduction:** Adjusted Values


Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/> 8.60300 ft			0.00000 ft	15.200 ft	0.00000 ft	15.200 ft ▲	Benchmark	76.020 ft	L8DIV 3
<input checked="" type="checkbox"/>	2			<input checked="" type="checkbox"/> 0.83100 ft	7.77200 ft	22.972 ft	0.00000 ft	22.972 ft	Computed	56.690 ft	REF5A 3
<input checked="" type="checkbox"/>	3		<input checked="" type="checkbox"/> 0.74800 ft		7.85500 ft	23.055 ft	0.00000 ft	23.055 ft	Computed	51.120 ft	REF5B 3
<input checked="" type="checkbox"/>	4		<input checked="" type="checkbox"/> 0.66200 ft		7.94100 ft	23.141 ft	0.00000 ft	23.141 ft	Computed	45.770 ft	REF5C 3
<input checked="" type="checkbox"/>	5		<input checked="" type="checkbox"/> 0.78300 ft		7.82000 ft	23.020 ft	0.00000 ft	23.020 ft	Computed	40.350 ft	REF5D 3
<input checked="" type="checkbox"/>	6		<input checked="" type="checkbox"/> 3.01500 ft		5.58800 ft	20.788 ft	0.00000 ft	20.788 ft	Computed	39.270 ft	GR5D 3
<input checked="" type="checkbox"/>	7		<input checked="" type="checkbox"/> 3.05300 ft		5.55000 ft	20.750 ft	0.00000 ft	20.750 ft	Computed	44.720 ft	GR5C 3
<input checked="" type="checkbox"/>	8		<input checked="" type="checkbox"/> 3.13100 ft		5.47200 ft	20.672 ft	0.00000 ft	20.672 ft	Computed	50.100 ft	GR5B 3
<input checked="" type="checkbox"/>	9		<input checked="" type="checkbox"/> 3.18400 ft		5.41900 ft	20.619 ft	0.00000 ft	20.619 ft	Computed	55.540 ft	GR5A 3
<input checked="" type="checkbox"/>	10		<input checked="" type="checkbox"/> 8.60300 ft		0.00000 ft	15.200 ft	0.00000 ft	15.200 ft	Computed	76.050 ft	L8DIV 3

### Run - 10001 (N1) Reduced Observations

Observation	Status	Raw Δ	Correction	Final Δ	Setups	Length	Σ BS	Σ FS	Std.
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		Elevation		Elevation			Readings	Readings	Error
 <a href="#">1-2 (E1)</a>	Enabled	7.77200 ft	0.00000 ft	7.77200 ft	1	132.710 ft	8.60300 ft	0.83100 ft	0.00346 ft
 <a href="#">1-3 (E2)</a>	Enabled	7.85500 ft	0.00000 ft	7.85500 ft	1	127.140 ft	8.60300 ft	0.74800 ft	0.00332 ft
 <a href="#">1-4 (E3)</a>	Enabled	7.94100 ft	0.00000 ft	7.94100 ft	1	121.790 ft	8.60300 ft	0.66200 ft	0.00318 ft
 <a href="#">1-5 (E4)</a>	Enabled	7.82000 ft	0.00000 ft	7.82000 ft	1	116.370 ft	8.60300 ft	0.78300 ft	0.00304 ft
 <a href="#">1-6 (E5)</a>	Enabled	5.58800 ft	0.00000 ft	5.58800 ft	1	115.290 ft	8.60300 ft	3.01500 ft	0.00301 ft
 <a href="#">1-7 (E6)</a>	Enabled	5.55000 ft	0.00000 ft	5.55000 ft	1	120.740 ft	8.60300 ft	3.05300 ft	0.00315 ft
 <a href="#">1-8 (E7)</a>	Enabled	5.47200 ft	0.00000 ft	5.47200 ft	1	126.120 ft	8.60300 ft	3.13100 ft	0.00329 ft
 <a href="#">1-9 (E8)</a>	Enabled	5.41900 ft	0.00000 ft	5.41900 ft	1	131.560 ft	8.60300 ft	3.18400 ft	0.00343 ft
 <a href="#">1-10 (E9)</a>	Enabled	0.00000 ft	0.00000 ft	0.00000 ft	1	152.070 ft	8.60300 ft	8.60300 ft	0.00397 ft

**Run - 10001 (N1) Reduced Coordinates**

Point ID	Status	Elevation
 <a href="#">1</a>	Enabled	15.20000 ft

Date: 7/31/2014 10:33:35 AM	Project: S:\IN-HOUSE PROJECTS\L8 WELLS 7-14-14\4- Digital Files\Digital Level\Trimble Project\L8PZ5.vce	Trimble Business Center
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<b>Project Information</b>		<b>Coordinate System</b>	
Name:	S:\IN-HOUSE PROJECTS\L8 WELLS 7-14-14\4- Digital Files\Digital Level\Trimble Project\L8PZ8.vce	Name:	Default
Size:	154 KB	Datum:	WGS 1984
Modified:	7/31/2014 10:35:37 AM (UTC:-4)	Zone:	Default
Time zone:	Eastern Standard Time	Geoid:	
Reference number:		Vertical datum:	
Description:			

## Level Report

**Imported file:** [L8PZ8.DAT](#)  
**Instrument:** DiNi  
**Standard error per kilometer of double leveling:** 0.00230 ft  
**Standard error per turn/station setup:** 0.00000 ft  
**Creation option:** Delta elevations  
**Description usage:** Feature codes

### Run - 1 Raw Observations

**Raw Misclosure:** -0.00200 ft  
**Σ BS Distances:** 565.510 ft  
**Σ FS Distances:** 562.330 ft  
**Run Length:** 1127.840 ft  
**Reduction:** Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/> 9.12300 ft			0.00000 ft	15.200 ft	0.00000 ft	15.200 ft ▲	Benchmark	252.200 ft	L8DIV 3
<input type="checkbox"/>	2			<input checked="" type="checkbox"/> 2.57600 ft	6.54700 ft	21.747 ft	0.00099 ft	21.748 ft	Computed	249.930 ft	3
	2	<input checked="" type="checkbox"/> 5.37600 ft								28.410 ft	3
<input checked="" type="checkbox"/>	3			<input checked="" type="checkbox"/> 3.27500 ft	2.10100 ft	23.848 ft	0.00100 ft	23.849 ft	Computed	33.920 ft	MACKE 3
	3	<input checked="" type="checkbox"/> 2.93800 ft								34.150 ft	MACKE 3
<input type="checkbox"/>	4			<input checked="" type="checkbox"/> 5.03800 ft	-2.10000 ft	21.748 ft	0.00102 ft	21.749 ft	Computed	28.380 ft	3
	4	<input checked="" type="checkbox"/> 2.44500 ft								250.750 ft	3
	1			<input checked="" type="checkbox"/> 8.99500 ft	-6.55000 ft	15.198 ft	0.00200 ft	15.200 ft ▲	Benchmark	250.100 ft	L8DIV 3

### Run - 1 (N1) Reduced Observations

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
1-3 (E1)	Enabled	8.64800 ft	0.00100 ft	8.64900 ft	2	564.460 ft	14.49900 ft	5.85100 ft	0.01320 ft

<a href="#">3-1 (E2)</a>	Enabled	-8.65000 ft	0.00100 ft	-8.64900 ft	2	563.380 ft	5.38300 ft	14.03300 ft	0.01317 ft
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**Run - 1 (N1) Reduced Coordinates**

Point ID	Status	Elevation
<a href="#">1</a>	Enabled	15.20000 ft

**Run - 10001 Raw Observations**

Raw Misclosure: ?

 $\Sigma$  BS Distances: 215.810 ft $\Sigma$  FS Distances: 218.110 ft

Run Length: 433.920 ft

Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	$\Delta$ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/> 5.42700 ft			0.00000 ft	23.848 ft	0.00100 ft	23.849 ft	Computed	215.810 ft	MACKE 3
<input checked="" type="checkbox"/>	6			<input checked="" type="checkbox"/> 2.44300 ft	2.98400 ft	26.832 ft	0.00100 ft	26.833 ft	Computed	218.110 ft	REF8A 3
<input checked="" type="checkbox"/>	7		<input checked="" type="checkbox"/> 2.56300 ft		2.86400 ft	26.712 ft	0.00100 ft	26.713 ft	Computed	211.580 ft	REF8B 3
<input checked="" type="checkbox"/>	8		<input checked="" type="checkbox"/> 5.13700 ft		0.29000 ft	24.138 ft	0.00100 ft	24.139 ft	Computed	212.370 ft	GR8B 3
<input checked="" type="checkbox"/>	9		<input checked="" type="checkbox"/> 4.95500 ft		0.47200 ft	24.320 ft	0.00100 ft	24.321 ft	Computed	218.630 ft	GR8A 3
<input checked="" type="checkbox"/>	10		<input checked="" type="checkbox"/> 5.42700 ft		0.00000 ft	23.848 ft	0.00100 ft	23.849 ft	Computed	215.780 ft	MACKE 3

**Run - 10001 (N2) Reduced Observations**

Observation	Status	Raw $\Delta$ Elevation	Correction	Final $\Delta$ Elevation	Setups	Length	$\Sigma$ BS Readings	$\Sigma$ FS Readings	Std. Error
<a href="#">3-6 (E3)</a>	Enabled	2.98400 ft	0.00000 ft	2.98400 ft	1	433.920 ft	5.42700 ft	2.44300 ft	0.01132 ft
<a href="#">3-7 (E4)</a>	Enabled	2.86400 ft	0.00000 ft	2.86400 ft	1	427.390 ft	5.42700 ft	2.56300 ft	0.01115 ft
<a href="#">3-8 (E5)</a>	Enabled	0.29000 ft	0.00000 ft	0.29000 ft	1	428.180 ft	5.42700 ft	5.13700 ft	0.01117 ft
<a href="#">3-9 (E6)</a>	Enabled	0.47200 ft	0.00000 ft	0.47200 ft	1	434.440 ft	5.42700 ft	4.95500 ft	0.01133 ft
<a href="#">3-10 (E7)</a>	Enabled	0.00000 ft	0.00000 ft	0.00000 ft	1	431.590 ft	5.42700 ft	5.42700 ft	0.01126 ft

**Run - 2 Raw Observations**

Raw Misclosure: 0.00900 ft

 $\Sigma$  BS Distances: 2939.770 ft $\Sigma$  FS Distances: 2944.270 ft

Run Length: 5884.040 ft

## Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/> 1.96400 ft			0.00000 ft	23.848 ft	0.00100 ft	23.849 ft	Computed	87.760 ft	MACKE 3
<input type="checkbox"/>	15			<input checked="" type="checkbox"/> 5.99500 ft	-4.03100 ft	19.817 ft	0.00088 ft	19.818 ft	Computed	88.320 ft	3
	15	<input checked="" type="checkbox"/> 3.28200 ft								134.480 ft	3
<input type="checkbox"/>	16			<input checked="" type="checkbox"/> 5.01600 ft	-1.73400 ft	18.083 ft	0.00061 ft	18.084 ft	Computed	133.400 ft	3
	16	<input checked="" type="checkbox"/> 2.65500 ft								225.890 ft	3
<input type="checkbox"/>	17			<input checked="" type="checkbox"/> 5.37100 ft	-2.71600 ft	15.367 ft	-0.00018 ft	15.367 ft	Computed	225.890 ft	3
	17	<input checked="" type="checkbox"/> 5.42300 ft								233.140 ft	3
<input type="checkbox"/>	18			<input checked="" type="checkbox"/> 3.76300 ft	1.66000 ft	17.027 ft	-0.00104 ft	17.026 ft	Computed	239.660 ft	3
	18	<input checked="" type="checkbox"/> 4.36400 ft								192.680 ft	3
<input checked="" type="checkbox"/>	19			<input checked="" type="checkbox"/> 5.31800 ft	-0.95400 ft	16.073 ft	-0.00163 ft	16.071 ft	Computed	199.020 ft	FEB6 3
	19	<input checked="" type="checkbox"/> 6.37100 ft								217.360 ft	FEB6 3
<input type="checkbox"/>	20			<input checked="" type="checkbox"/> 5.83200 ft	0.53900 ft	16.612 ft	-0.00237 ft	16.610 ft	Computed	220.210 ft	3
	20	<input checked="" type="checkbox"/> 4.67800 ft								228.280 ft	3
<input type="checkbox"/>	21			<input checked="" type="checkbox"/> 5.01500 ft	-0.33700 ft	16.275 ft	-0.00319 ft	16.272 ft	Computed	230.870 ft	3
	21	<input checked="" type="checkbox"/> 5.68200 ft								142.290 ft	3
<input checked="" type="checkbox"/>	22			<input checked="" type="checkbox"/> 5.69300 ft	-0.01100 ft	16.264 ft	-0.00350 ft	16.260 ft	Computed	143.410 ft	TUNA 3
	22	<input checked="" type="checkbox"/> 5.43600 ft								143.540 ft	TUNA 3
<input type="checkbox"/>	23			<input checked="" type="checkbox"/> 5.42600 ft	0.01000 ft	16.274 ft	-0.00381 ft	16.270 ft	Computed	141.930 ft	3
	23	<input checked="" type="checkbox"/> 5.00600 ft								229.690 ft	3
<input type="checkbox"/>	24			<input checked="" type="checkbox"/> 4.66700 ft	0.33900 ft	16.613 ft	-0.00463 ft	16.608 ft	Computed	228.840 ft	3
	24	<input checked="" type="checkbox"/> 5.79100 ft								219.620 ft	3
<input type="checkbox"/>	25			<input checked="" type="checkbox"/> 6.32800 ft	-0.53700 ft	16.076 ft	-0.00536 ft	16.071 ft	Computed	218.080 ft	3
	25	<input checked="" type="checkbox"/> 5.54100 ft								198.620 ft	3
<input type="checkbox"/>	26			<input checked="" type="checkbox"/> 4.75300 ft	0.78800 ft	16.864 ft	-0.00596 ft	16.858 ft	Computed	193.540 ft	3
	26	<input checked="" type="checkbox"/> 3.80300 ft								239.140 ft	3

<input type="checkbox"/>	27		<input checked="" type="checkbox"/> 5.26800 ft	-1.46500 ft	15.399 ft	-0.00681 ft	15.392 ft	Computed	231.920 ft	3
	27	<input checked="" type="checkbox"/> 5.31200 ft							225.200 ft	3
<input type="checkbox"/>	28		<input checked="" type="checkbox"/> 2.75900 ft	2.55300 ft	17.952 ft	-0.00760 ft	17.944 ft	Computed	226.480 ft	3
	28	<input checked="" type="checkbox"/> 5.21700 ft							134.710 ft	3
<input type="checkbox"/>	29		<input checked="" type="checkbox"/> 3.45900 ft	1.75800 ft	19.710 ft	-0.00788 ft	19.702 ft	Computed	134.810 ft	3
	29	<input checked="" type="checkbox"/> 6.11300 ft							87.370 ft	3
	3		<input checked="" type="checkbox"/> 1.96600 ft	4.14700 ft	23.857 ft	-0.00800 ft	23.849 ft	Computed	87.890 ft	MACKE 3

**Run - 2 (N3) Reduced Observations**

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
<a href="#">3-19 (E8)</a>	Enabled	-7.77500 ft	-0.00264 ft	-7.77764 ft	5	1760.240 ft	17.68800 ft	25.46300 ft	0.02157 ft
<a href="#">19-22 (E9)</a>	Enabled	0.19100 ft	-0.00187 ft	0.18913 ft	3	1182.420 ft	16.73100 ft	16.54000 ft	0.01815 ft
<a href="#">22-3 (E10)</a>	Enabled	7.59300 ft	-0.00450 ft	7.58850 ft	8	2941.380 ft	42.21900 ft	34.62600 ft	0.02817 ft

**Run - 1002 Raw Observations**

Raw Misclosure: ?

Σ BS Distances: 40.650 ft

Σ FS Distances: 47.900 ft

Run Length: 88.550 ft

Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	19	<input checked="" type="checkbox"/> 6.11400 ft			0.00000 ft	16.073 ft	-0.00163 ft	16.071 ft	Computed	40.650 ft	FEB6 3
<input checked="" type="checkbox"/>	40			<input checked="" type="checkbox"/> 6.02900 ft	0.08500 ft	16.158 ft	-0.00163 ft	16.156 ft	Computed	47.900 ft	RF2DE 3
<input checked="" type="checkbox"/>	41		<input checked="" type="checkbox"/> 6.32500 ft		-0.21100 ft	15.862 ft	-0.00163 ft	15.860 ft	Computed	32.840 ft	RF2SW 3
<input checked="" type="checkbox"/>	42		<input checked="" type="checkbox"/> 5.82200 ft		0.29200 ft	16.365 ft	-0.00163 ft	16.363 ft	Computed	34.350 ft	GR2SW 3
<input checked="" type="checkbox"/>	43		<input checked="" type="checkbox"/> 5.76300 ft		0.35100 ft	16.424 ft	-0.00163 ft	16.422 ft	Computed	49.280 ft	GR2DE 3
<input checked="" type="checkbox"/>	44		<input checked="" type="checkbox"/> 6.11500 ft		-0.00100 ft	16.072 ft	-0.00163 ft	16.070 ft	Computed	40.620 ft	FEB6 3

**Run - 1002 (N4) Reduced Observations**

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
<a href="#">19-40</a>						88.550			

<a href="#">(E11)</a>	Enabled	0.08500 ft	0.00000 ft	0.08500 ft	1	ft	6.11400 ft	6.02900 ft	0.00231 ft
<a href="#">19-41</a> <a href="#">(E12)</a>	Enabled	-0.21100 ft	0.00000 ft	-0.21100 ft	1	73.490 ft	6.11400 ft	6.32500 ft	0.00192 ft
<a href="#">19-42</a> <a href="#">(E13)</a>	Enabled	0.29200 ft	0.00000 ft	0.29200 ft	1	75.000 ft	6.11400 ft	5.82200 ft	0.00196 ft
<a href="#">19-43</a> <a href="#">(E14)</a>	Enabled	0.35100 ft	0.00000 ft	0.35100 ft	1	89.930 ft	6.11400 ft	5.76300 ft	0.00235 ft
<a href="#">19-44</a> <a href="#">(E15)</a>	Enabled	-0.00100 ft	0.00000 ft	-0.00100 ft	1	81.270 ft	6.11400 ft	6.11500 ft	0.00212 ft

### Run - 1003 Raw Observations

Raw Misclosure: ?

Σ BS Distances: 90.290 ft

Σ FS Distances: 82.510 ft

Run Length: 172.800 ft

Reduction: Adjusted Values

Create	Point ID	BS	IS	FS	Δ Elevation	Raw Elevation	Correction	Adj. Elevation	Type	Distance	Description
<input checked="" type="checkbox"/>	22	<input checked="" type="checkbox"/> 5.63400 ft			0.00000 ft	16.264 ft	-0.00350 ft	16.260 ft	Computed	90.290 ft	TUNA 3
<input checked="" type="checkbox"/>	50			<input checked="" type="checkbox"/> 6.94900 ft	-1.31500 ft	14.949 ft	-0.00350 ft	14.945 ft	Computed	82.510 ft	RF1DE 3
<input checked="" type="checkbox"/>	51		<input checked="" type="checkbox"/> 7.11000 ft		-1.47600 ft	14.788 ft	-0.00350 ft	14.784 ft	Computed	98.290 ft	RF1SW 3
<input checked="" type="checkbox"/>	52		<input checked="" type="checkbox"/> 6.77600 ft		-1.14200 ft	15.122 ft	-0.00350 ft	15.118 ft	Computed	96.950 ft	GR1SW 3
<input checked="" type="checkbox"/>	53		<input checked="" type="checkbox"/> 6.57900 ft		-0.94500 ft	15.319 ft	-0.00350 ft	15.315 ft	Computed	80.910 ft	GR1DE 3
<input checked="" type="checkbox"/>	54	<input checked="" type="checkbox"/> 5.63400 ft			0.00000 ft	16.264 ft	-0.00350 ft	16.260 ft	Computed	90.220 ft	TUNA 3

### Run - 1003 (N5) Reduced Observations

Observation	Status	Raw Δ Elevation	Correction	Final Δ Elevation	Setups	Length	Σ BS Readings	Σ FS Readings	Std. Error
<a href="#">22-50</a> <a href="#">(E16)</a>	Enabled	-1.31500 ft	0.00000 ft	-1.31500 ft	1	172.800 ft	5.63400 ft	6.94900 ft	0.00451 ft
<a href="#">22-51</a> <a href="#">(E17)</a>	Enabled	-1.47600 ft	0.00000 ft	-1.47600 ft	1	188.580 ft	5.63400 ft	7.11000 ft	0.00492 ft
<a href="#">22-52</a> <a href="#">(E18)</a>	Enabled	-1.14200 ft	0.00000 ft	-1.14200 ft	1	187.240 ft	5.63400 ft	6.77600 ft	0.00488 ft
<a href="#">22-53</a> <a href="#">(E19)</a>	Enabled	-0.94500 ft	0.00000 ft	-0.94500 ft	1	171.200 ft	5.63400 ft	6.57900 ft	0.00447 ft
<a href="#">22-54</a> <a href="#">(E20)</a>	Enabled	0.00000 ft	0.00000 ft	0.00000 ft	1	180.510 ft	5.63400 ft	5.63400 ft	0.00471 ft



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