Specific Purpose Survey of
Well site C-258
Collier County, Florida
Prepared for:

## South Florida Water Management District

Prepared by:



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Licensed Business (L.B.) 6860

South Florida Water Management District's Purchase Order number 4500013259

Keith and Associates project number 07050.04, Task 001

Report Date: August 28, 2007

**Submittal: First** 

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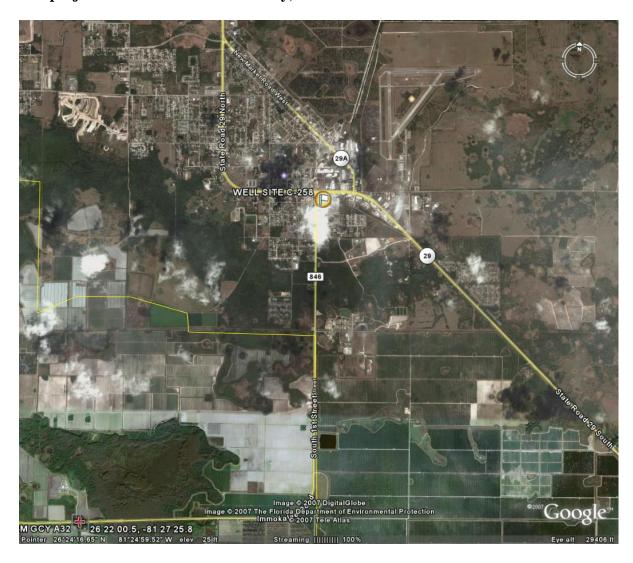
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## **PURPOSE**

To establish (NAVD 1988 and NGVD 1929) vertical data on the existing Well. Set a Brass Tag on the Well with the following data stamped on it:
Structure designation
Elevation of the well benchmark
Date of site work
Company initials and
Datum

## **LOCATION OF PROJECT**

The project is located in Collier County, Florida.



## **ITEMS DELIVERED TO THE DISTRICT**

- 1. Electronic copy of field notes.
- 2. Electronic copy of all computation sheets.
- 3. CORPSMET 95 file.
- 4. Site photographs.
- 5. Surveyor's Report.
- 6. District Benchmark Sheets.
- 7. District Well Excel Sheet.

## **DATUM FOR THE PROJECT**

The vertical datum for the project is National Geodetic Vertical Datum (NGVD) of 1929 and North American Vertical Datum (NAVD) of 1988. NGVD 1929 elevations were obtained from file NGVD29.txt supplied by the South Florida Water Management District. The horizontal datum is NAD (North American Datum) 1983/90.

#### **LEVELING METHODS**

Site Benchmark "C-258" is a 3-1/2" South Florida Water Management District brass disk set in the concrete median. A level loop was run starting at NGS benchmark E-533, through NGS benchmark F-533, through site benchmark C-258 2007 and back to E-533. A Leica NA2 conventional level was used for the level run and the site As-Builts. The level run meets or exceeds the closure requirement of "the square root of the level run in miles x 0.03"

#### **HORIZONTAL LOCATIONS**

Horizontal locations were obtained using a Trimble 5700 receiver and RTK cellular link.

Description	X, (Easting) 83/90 Coordinates	Y, (Northing) 83/90 Coordinates	Latitude	Longitude
Benchmark "C-258 2007"	519958	758042	26°25'06.8"	-81°24'58.3"
Well C-258	519985	757872	26°25'05.1"	-81°24'58.0"

## **VERTICAL CONTROL**

E-533	Elevation:	NAVD 1988	26.571	NGVD 1929	27.877
PID AJ7588	Latitude	26° 24′ 40.68930"		From NGVD29.txt file	
State/County FL/Collier	Longitude	-81° 25' 01.43296"			
USGS QUAD Immokalee (1987)					
Vertical Order First				•	

Vertical Order First
Class II
Horizontal Order First

The orthometric height was determined by differential leveling and adjusted by the NATIONAL GEODETIC SURVEY in February 2002.



The mark is about 64.0 km (39.74 mi) northeast of Naples, in Section 3, Township 47 South, Range 29 East, Immokalee, Collier County, Florida. Ownership - Collier County. To reach the mark from the intersection of State Road 29 (Main Street) and County Road 846 (South 1St Street) in Immokalee, go southwest on County Road 846 (South 1st Street) 0.8 km (0.5 mi) to the intersection with Eustis Avenue and the mark on the right. The mark is a stainless steel rod 21.34 m (70.0 ft) east of the centerline of County Road 846 (S. 1St), 15.94 m (52.3 ft) east of the centerline of the eastbound lanes of County Road 846 (S. Street ), 15.97 m (52.4 ft) northeast of wood power pole number F 5121C100, 12.92 m (42.4 ft) southeast of the southeast corner of a bricked sign (Welcome to Immokalee), 5.49 m (18.0 ft) north of the centerline of Eustis Avenue and 1.31 m (4.3 ft) south of a carsonite witness post. The datum point is set 13 cm (0.42 ft) below the level of the ground, about the same level as Eustis Avenue, being the top of a stainless steel rod driven 20.58 m (67.51 ft) to refusal and encased in a 5- inch pvc pipe with an access cover. Note - a magnet was placed inside the sleeve, below the access cover.

## VERTICAL CONTROL (CONTINUED)

F-533	Elevation:	NAVD 1988	30.882'	NGVD 1929	32.188'
PID AJ7332	Latitude	26° 24' 58.93550"		From NGVD29.txt file	
State/County FL/Collier	Longitude	-81° 25' 02.12661"			
USGS QUAD Immokalee (1987)					
Vertical Order First		The orthometric height	was determ	ined by differen	tial leveling

Vertical Order First Class II Horizontal Order First The orthometric height was determined by differential leveling and adjusted by the NATIONAL GEODETIC SURVEY in February 2002.



The mark is about 64.0 km (39.74 mi) northeast of Naples, in Section 3, Township 47 South, Range 29 East, Immokalee, Collier County, Florida. To reach the mark from the intersection of State Road 29 (Main Street) and County Road 846 (South 1st Street) in Immokalee, go south on County Road 846 (South 1st Street) 0.2 km (0.14 mi) to the mark on the left. the mark is a stainless steel rod 42.06 m (138.0 ft) northwest of the northwest corner of a building at 210 South 1st Street, 39.01 m (128.0 ft) south of an extended centerline of Boston Ave, 10.97 m (36.0 ft) east of the centerline of County Road 846 (South 1st Street), 5.49 m (18.0 ft) east of the centerline of the eastbound lanes of County Road 846 (South 1st Street) and 0.30 m (1.0 ft) east of the east back of a concrete sidewalk. The datum point is set 11 cm (0.37 ft) below the level of the ground, about the same level as County Road 846, being the top of a stainless steel rod driven 24.20 m (79.40 ft) to refusal and encased in a 5- inch pvc pipe with an access cover. note -a magnet was placed inside the sleeve, below the access cove

## **VERTICAL CONTROL (CONTINUED)**

C-258		Elevation:	NAVD 1988	34.805'	NGVD 1929	36.111'
		Latitude	26° 25' 06.8"		Derived from the level loop as described in the Leveling Methods section of this report.	
State/County FL/Collier		Longitude	-81° 24' 58.3"			
USGS QUAD Immokalee (1987)						
Vertical Order Horizontal Order	Third Third		The mark is about 6	4.0 km (39	.74 mi) northea	st of

Main St.

Site Benchmark C-258

Site Benchmark C-258

The mark is about 64.0 km (39.74 mi) northeast of Naples, in Section 3, Township 47 South, Range 29 East, Immokalee, Collier County, Florida. To reach the mark from the intersection of State Road 29 (Main Street) and County Road 846 (South 1st Street) in Immokalee, proceed approximately 465' east to the intersection of State Road 29 (Main Street) and South 2nd Street) and a concrete median in the centerline of State Road 29 (Main Street) lying west of South 2nd Street . The mark is set in the concrete median approx. 60' west of the centerline of South 2nd Street and 9' west of the bullnose also being approximately 230' north and 100' east of well C-258 and opposite address 111 Main Street.

## **PROJECT RESULTS**

## **C-258 Well**

Reference mark: **Set mark on PVC pipe.** 

## **New Information at the site:**

**Set Brass Tag and stamped the following information.** 

Mark El. 38.036'

NGVD 29

Initials: **K&A**Date: **08/27/07** 

Offset (written in marker not stamped on tag):

1.306

## **Previous Information at the site:**

Reference Mark Elevation(s)

El. <u>None</u>
Date: <u>None</u>
Initials: <u>None</u>

Reference Mark location **Same as above mark.** 

## **<u>DTW</u>** (Distance to water inside well)

Unable to obtain, spigot threaded into well opening.

Reference mark: <u>N/A</u> El. <u>N/A</u> (NGVD 29)

Measurement to water: N/A

Date: <u>N/A</u> Time: <u>N/A</u>

## **Well C-258**



8/27/07 Keith and Associates

## **Comments**

Elevations shown hereon are NGVD 1929 datum unless noted otherwise.

Party Chief: A. McKinney Field Book: 278 Page Pages 9-11,

Field Book: 273 Page Page 52

Bench Mark: "<u>C-258"</u> El. <u>34.805', Vertical Datum: NAVD1988</u>

El. 36.111', Vertical Datum: NGVD1929

Offset: 1.306' SFWMD VALUE (subtract this value from NGVD 1929 to

convert to NAVD 1988)

Offset: 1.306' NGS VALUE (subtract this value from NGVD 1929 to

convert to NAVD 1988)

The offset values referred to as "SFWMD VALUE" and "NGS VALUE" were derived by subtracting the NAVD 1988 value from the NGVD 1929 value at NGS benchmark F-533.

NAVD 88 - North American Vertical Datum of 1988

NGVD29 - National Geodetic Vertical Datum of 1929

NAD 83 -99 (Horizontal Datum) North American Datum

**NGS - National Geodetic Survey** 

SFWMD - South Florida Water Management District

**PVC - Polyvinyl Chloride** 

L.B. - Licensed Business

RTK – Real Time Kinematic

K&A - Keith and Associates

PSM - Professional Surveyor & Mapper

**USGS – United States Geological Survey** 

**QUAD – Quadrangle Map** 

**PID - Permanent Identifier** 

#### SURVEYOR'S CERTIFICATION

I hereby certify that this Specific Purpose Survey meets applicable portions of the Minimum Technical Standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61-G17, Florida Administrative Code. This report is prepared for the sole and specific use of the South Florida Water Management District and is not assignable.

Keith and Associates, Inc. L.B. number 6860

	By:
Date of Survey	Michael M. Mossey, PSM
August 27, 2007	Professional Surveyor and Mapper
	State of Florida
	Certificate No. 5660

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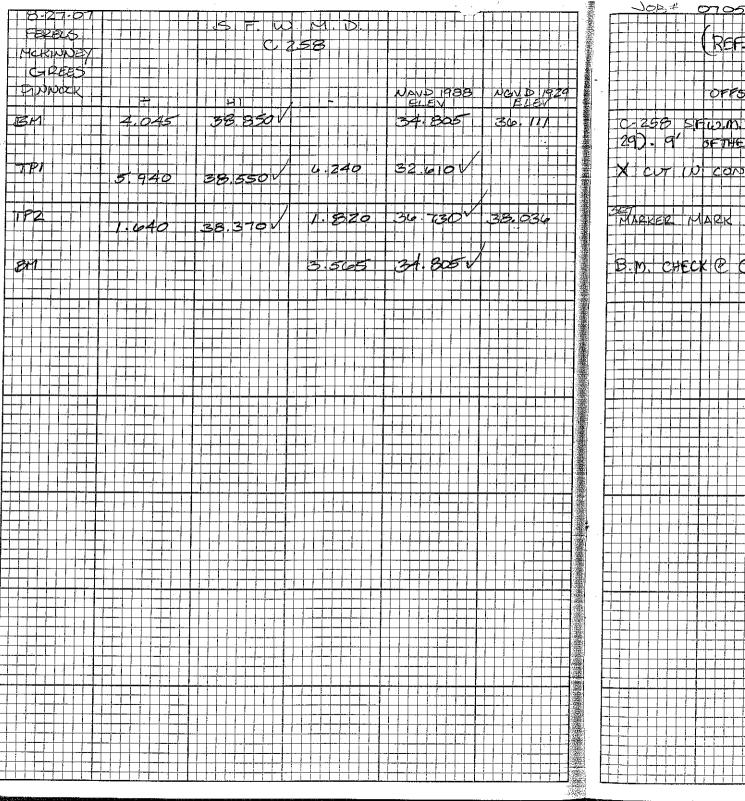
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C-258 Monitor Well.met
Identification_Information:
         Ci tati on:
                  Citation_Information:
                          Originator: Michael M. Mossey, P.S.M. (ed.)
Publication_Date: 20070828
Publication_Time: Unknown
                           Title: C-258
                           Edition: 1
                           Publication_Information:
                                    Publication_Place: Not Published
                                    Publisher: None
                           Online_Linkage: mmossey@keith-associates.com
         Description:
                  Abstract: Culvert C-258
                  Purpose:
                           To establish reference elevations in NAVD 1988 and
                           NGVD 1929 datum at the site on the existing
                           well. Set brass tag on the well and stamp the date
                          of survey, datum (NGVD 1929), company initals, structure designation and elevation of the well mark. Set a site
                           benchmark.
         Time_Period_of_Content:
                  Time_Period_Information:
                           Range_of_Dates/Times:
                                    Beginning_Date: 20070815
                                    Ending_Date: 20070827
                 Currentness_Reference: Publication Date
         Status:
                  Progress: Complete
                 Maintenance_and_Update_Frequency: Unknown
         Spati al _Domai n:
                  Boundi ng_Coordi nates:
                           West_Bounding_Coordinate: 81°24′58.3″
                           East_Boundi ng_Coordi nate: 81°24' 58. 3"
                           North_Bounding_Coordinate: 26°25'06.8"
                           South_Boundi ng_Coordi nate: 26°25' 06.8"
         Keywords:
                  Theme:
                           Theme_Keyword_Thesaurus: Specific Purpose Survey Theme_Keyword: Well Site
                  PI ace:
                           Place_Keyword_Thesaurus: Collier County, Florida
                           Place_Keyword: Well Site C-258
                           Place_Keyword: Sections 3 Township 47 S - Range 29 E
         Access_Constraints: None
         Use_Constraints: None
         Point_of_Contact:
                  Contact_Information:
                           Contact_Person_Pri mary:
                                    Contact_Person: Howard Ehmke
                                    Contact_Organization: South Florida Water Management
District
                           Contact_Position: Lead Project Manager Acceler8
                           Contact_Address:
                                    Address_Type: mailing and physical address
                                    Address:
                                             2301 Centre Park West Drive,
                                             Sui te # 150,
                                    City: West Palm Beach
                                    State_or_Province: Florida
                                    Postal_Code: 33409
                                    Country: USA
                           Contact_Voice_Telephone: Office (561) 682-6923
```

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```
C-258 Monitor Well.met
                                Contact_Electronic_Mail_Address: skrupa@sfwmd.gov
                                Hours_of_Service: 8:00 am to 5:00 pm EST
Data_Quality_Information:
          Attribute_Accuracy:
Attribute_Accuracy_Report:
Attribute_Accuracy_Report:
Horizontal locations were obtained using a Trimble 5700
                                receiver and RTK cellular link. The vertical data was collected using a Leica NA2 Level. Coordinates are
                                based on the Florida State Plane Coordinate System, East
                                Zone, NAD 1983/90. Elevations are based on NGVD 1929 with an offset supplied to convert to NAVD 1988.
          Logical_Consistency_Report:

Vertical data at the site was established using site
Benchmark "C-258 2007", a South Florida Water

Management 3-1/2" brass disk in the concrete median
                     at the intersection of Main St. (S.R. 29) and South 2nd
                     Street.
           Completeness Report:
                      38. 036'
                                   (NGVD1929) Monitoring Well
                     Offset written at wells (-) 1.306' to NAVD 1988.
                     Site Benchmark C-258 2007
NAVD 1988 elevation 34.805' (field derived)
NGVD 1929 elevation 36.111' (field derived)
                     Benchmark E-533
                     NAVD 1988 elevation 26.571'
                                                           (Data sheet)
                     NGVD 1929 elevation 27.877'
                                                           (NGVD29. txt file)
                      Benchmark F-533
                     NAVD 1988 elevation 30.882'
                                                           (Data sheet(s))
                     NGVD 1929 elevation 32.188'
                                                           (NGVD29. txt file)
           Posi ti onal _Accuracy:
    Hori zontal _Posi ti onal _Accuracy:
    Posi ti onal _Accuracy:
                                Horizontal_Positional_Accuracy_Report:
The horizontal locations of the benchmarks were
obtai ned
                                           using sub-meter GPS methods, Trimble 5700 receiver
and
                                           RTK cellular link.
                                Quanti tati ve_Hori zontal _Posi ti onal _Accuracy_Assessment:
Horizontal_Positional_Accuracy_Value: +/- 3'
Horizontal_Positional_Accuracy_Explanation: Value derived using Trimble 5700 receiver/celluar RTK link.
                     Verti cal _Posi ti onal _Accuracy:
                                Verti cal _Posi ti onal _Accuracy_Report:
                                           NGS benchmarks E-533 and F-533 were used to
establish
                                           elevations on the site benchmarks.
                                Quanti tati ve_Verti cal _Posi ti onal _Accuracy_Assessment:
Vertical_Positional_Accuracy_Value: 0.002
Vertical_Positional_Accuracy_Explanation: Better
than 0.03ft. x sq. root of miles of the level loop.
                                Quanti tati ve_Verti cal _Posi ti onal _Accuracy_Assessment:
                                           Vertical_Positional_Accuracy_Value: 0.002
                                           Vertical_Positional_Accuracy_Explanation: Better
than 0.03ft. x the sq. root of miles of the level loop.
           Li neage:
                     Process_Step:
                                Process_Description:
                                           Differential leveling was performed using a Leica
NA2
                                           conventional level. For the well as-built the newly
                                           established values for benchmark C-258 2007 were
used.
```

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The elevation stamped on the brass tag is in NGVD

```
C-258 Monitor Well.met
1929
                                    datum with an offset written on the well to convert
the
                                    elevation to NAVD 1988.
                           Process_Date: 20070828
Spatial_Reference_Information:
         Hori zontal _Coordi nate_System_Defi ni ti on:
                  Geographi c:
                           Lati tude_Resol uti on: 26°25'05.1"
                           Longi tude_Resolution: -81°24'58.3"
                           Geographic_Coordinate_Units: Degrees, minutes, and decimal
seconds
Distribution_Information:
         Di stri butor:
                  Contact_Information:
                           Contact_Organi zati on_Pri mary:
                                    Contact_Organization: Keith and Associates
                                    Contact_Person: Mi chael Mossey
                           Contact_Position: Project Surveyor
                           Contact_Address:
                                    Address_Type: mailing and physical address
Address: 301 East Atlantic Boulevard
                                    City: Pompano Beach
State_or_Province: Florida
                                    Postal_Code: 33060-6643
                                    Country: Broward
                           Contact_Voi ce_Tel ephone: 954 788-3400
                           Contact_Facsimile_Telephone: 954 788-3500
                           Contact_El ectronic_Mail_Address:
mmossey@kei th-associ ates. com
                           Hours_of_Service: 8:00-5:00 est.
         Distribution_Liability: None
Metadata_Reference_Information:
         Metadata_Date: 20070828
         Metadata Review Date: 20050721
         Metadata_Contact:
                  Contact_Information:
                           Contact_Person_Pri mary:
                                    Contact_Person: Michael M. Mossey, P. S. M.
                           Contact_Organization: Keith and Associates Contact_Position: Project Surveyor
                           Contact_Address:
                                    Address_Type: mailing and physical address
Address: 301 East Atlantic Boulevard
                                    City: Pompano Beach
                                    State_or_Province: FL
                                    Postal_Code: 33060-6643
                           Country: USA
Contact_Voice_Telephone: 954 788-3400
                           Contact_Facsimile_Telephone: 954 788-3500
                           Contact_Electronic_Mail_Address:
mmossey@kei th-associ ates.com
                           Hours_of_Service: 8:00 am to 5:00 pm EST
         Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial
Metadata
        Metadata_Standard_Version: 19940608
```

C-258	7050.04	PARTY CHIEF	A. McKINNE	DATE:	July 26	, 2007		Datum:	NAVD 1988	FIELD BOOK 278	PAGES	9-11	
STATION	3 WIRE	AVG.(ENG)	НІ	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	6.575												
ВМ	5.440	5.440	32.011			26.571	26.571						E-533 SS ROD IN LOGO
E-533	4.305	0.000											CAP 20' +/- N. OF CL OF E. EUSTIS
													AVE. & 65' +/- E. OF S. 1st ST.
STADIA		227.000											
	8.578			5.419									
TP1	7.425	7.423	35.173		4.260	27.751		458.70	-0.000133754	-0.000133754	27.751	8.458	
	6.265	0.002		3.102	0.000			-4.70					
	22.268			12.781				-4.70					
STADIA		231.300			231.700								
	7.949			6.835									
TP2	6.707	6.710	36.257	5.628	5.627	29.546		473.00	-0.000137924	-0.000271679	29.547	9.006	
	5.475	-0.003		4.418	0.001			-10.40					
	20.131			16.881				-15.10					
STADIA		247.400			241.700								
	7.180			6.570									
TP3	6.010	6.010	36.909		5.358	30.899		489.60	-0.000142765	-0.000414443	30.899	9.418	
	4.840	0.000		4.148	-0.003			5.20					
	18.030			16.073				-9.90					
STADIA		234.000			242.200								
	0.070			7.005									
	8.076	0.040	07.010	7.035	0.000	00.070		40.4.70	0.000400750	0.000544400		2 111	5.500.00 DOD IN LOO
TP4	6.940	6.942	37.818		6.033	30.876		434.70	-0.000126756	-0.000541199	30.877	9.411	E-533 SS ROD IN LOGO
F-533	5.810	-0.002		5.028	0.002			33.30					CAP 40' +/- E. OF CL OF 1st ST &
074514	20.826	000.000		18.098	000 700			23.40					125' +/- S. OF CL OF BOSTON AVE
STADIA		226.600			200.700								
	7.400			0.050									
TDE	7.400	0.500	00.004	6.950	5.007	00.044		455.00	0.000400075	0.000070075	20.040	0.757	
TP5	6.589	6.590	38.601	5.805	5.807	32.011		455.00	-0.000132675	-0.000673875	32.012	9.757	
	5.780	-0.001		4.666	-0.002			-1.80					
OTAB!A	19.769	400.000		17.421	000 400			21.60					
STADIA		162.000			228.400								

C-258	7050.04	PARTY CHIEF	A. McKINNE	DATE:	July 26	, 2007		Datum:	NAVD 1988	FIELD BOOK 278	PAGES	9-11	
STATION	3 WIRE	AVG.(ENG)	ні	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	5.010			E 00E									
TDO	5.610	5.000	00.404	5.295	4.500	0.4.074		04470	0.000004705	0.000705040	0.4.074	40.005	
TP6	5.090	5.090	39.161	4.528	4.530	34.071		314.70	-0.000091765	-0.000765640	34.071	10.385	
	4.570	0.000		3.768	-0.002			9.30					
OTA DIA	15.270			13.591	450 700			30.90					
STADIA		104.000			152.700								
	0.000			E 0.4E									
TDZ	6.030	4.022	39.637	5.045	4.057	24.004		044.00	0.000070500	0.000000447	24.005	10.000	CET CEWIND IN CONCRETE MEDIAN
TP7	4.830	4.833	39.637	4.358	4.357	34.804		241.80	-0.000070508	-0.000836147	34.805	10.609	SET SFWMD IN CONCRETE MEDIAN
	3.640	-0.003		3.667	0.001			-33.80					C-258 2007 CL MAIN ST. 60' +/- W. OF CL
OTA DIA	14.500	000 000		13.070	407.000			-2.90					OF 2nd STREET9' +/- W. OF THE BULLNOSE
STADIA		239.000			137.800								OPP ADDRESS 111 MAIN STREET
	0.000			0.000									
TDO	6.920	F 750	20.470	8.090	0.047	20.704		470.50	0.000420070	0.000074047	22.722	0.074	
TP8	5.756	5.758	38.478		6.917	32.721		473.50	-0.000138070	-0.000974217	32.722	9.974	
	4.597	-0.002		5.745	-0.002			4.50					
CTADIA	17.273	232.300		20.750	224 500			1.60					
STADIA		232.300			234.500								
	5.400			8.270									
TP9	4.175	4.173	35.525	7.130	7.127	31.352		461.30	-0.000134513	-0.001108730	31.353	9.556	
11-9		0.002	33.323		0.003	31.332			-0.000134313	-0.001106730	31.333	9.556	
	2.945 12.520	0.002		5.980	0.003			3.30					
STADIA	12.520	245.500		21.380	229.000			4.90					
STADIA		245.500			229.000			1					
	6.370			6.150									
TP10	5.170	5.170	35.762	4.933	4.933	30.592		489.00	-0.000142590	-0.001251319	30.594	9.325	
1110	3.970	0.000	33.702	3.715	0.000	30.332		2.00	-0.000142330	-0.001231319	30.334	9.525	
-	15.510	0.000		14.798	0.000			6.90					
STADIA	13.510	240.000		14.790	243.500			0.90					
STADIA		240.000			243.300					<u> </u>			

C-258	7050.04	PARTY CHIEF	A MaKINNE	DATE:	ll 00	2007		Datum:	NAVD 1988	FIELD BOOK 278	PAGES	0.44	
U-258	7030.04	PARTI CHIEF	A. WCKINNE	DATE:	July 26	, 2007		Datum:	IVAVD 1900	FIELD BOOK 276	PAGES	9-11	
STATION	3 WIRE	AVG.(ENG)	HI	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	6.870			7.430									
TP11	5.620	5.623	35.181		6.205	29.558		485.00	-0.000141423	-0.001392743	29.559	9.010	
	4.380	-0.003		4.980	-0.001			-5.00					
	16.870			18.614				1.90					
STADIA		249.000			245.000								
	5.363			8.695									
TP12	4.273	4.270	31.971	7.480	7.480	27.701		492.00	-0.000143464	-0.001536207	27.703	8.444	
	3.174	0.003		6.265	0.000			6.00					
	12.810			22.440				7.90					
STADIA		218.900			243.000								
				6.545									
ВМ				5.400	5.402	26.569	26.571	228.50	-0.000066629	-0.001666667	26.571	8.099	E-533 SS ROD IN LOGO
				4.260	-0.002			-228.50					CAP 20' +/- N. OF CL OF E. EUSTIS
				16.205				-1.70					AVE. & 65' +/- E. OF S. 1st ST.
					228.500								
							LOR=	5715.70	CHECK VALUES 1	O VERIFY SAME			
									OR TO SEE THEY				
	TOTAL + =	2857.000		TOTAL -=	2858.700			5715.70	THIRD ORDER SP	ECS( MAX DIFF. 3	33 FT.)		
					-1.70								
					RAW CL	OSURE=	-0.002						
					<b>ERROR PE</b>	R FOOT=	0.000						
		MTS A	LLOWABLE	ERROR	FOR THIRD	ORDER=	0.031						
					ACTUAL	ERROR=	0.002	RED II	BADGREEN IF	GOOD			

6/26/2015

C-258	7050.04	PARTY CHIEF	A. McKINNE	DATE:	July 26	, 2007		Datum:	NGVD 1929	FIELD BOOK 278	PAGES	9-11	
STATION	3 WIRE	AVG.(ENG)	ні	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
		, ,			` ′								
	6.575												
BM	5.440	5.440	33.317			27.877	27.877						E-533 SS ROD IN LOGO
E-533	4.305	0.000											CAP 20' +/- N. OF CL OF E. EUSTIS
													AVE. & 65' +/- E. OF S. 1st ST.
STADIA		227.000											
	0.570			E 440									
TP1	8.578 7.425	7.423	36.479	5.419 4.260	4.260	29.057		458.70	-0.000133754	-0.000133754	29.057	8.857	
IFI	6.265	0.002	36.479	3.102	0.000	29.057		-4.70	-0.000133754	-0.000133754	29.057	0.007	
	22.268			12.781	0.000			-4.70 -4.70					
STADIA	22.200	231.300		12.701	231.700			-4.70					
01712171		201.000			2011100								
	7.949			6.835									
TP2	6.707	6.710	37.563	5.628	5.627	30.852		473.00	-0.000137924	-0.000271679	30.853	9.404	
	5.475	-0.003		4.418	0.001			-10.40					
	20.131			16.881				-15.10					
STADIA		247.400			241.700								
	7.180			6.570									
TP3	6.010	6.010	38.215	5.355	5.358	32.205		489.60	-0.000142765	-0.000414443	32.205	9.816	
	4.840	0.000		4.148	-0.003			5.20					
OTA DIA	18.030			16.073	040.000			-9.90					
STADIA		234.000			242.200								
	8.076			7.035									
TP4	6.940	6.942	39.124	6.035	6.033	32.182		434.70	-0.000126756	-0.000541199	32.183	9.809	E-533 SS ROD IN LOGO
F-533	5.810	-0.002	00.121	5.028	0.002	02.102		33.30	0.000120100	0.000011100	02.100	0.000	CAP 40' +/- E. OF CL OF 1st ST &
. 555	20.826	0.002		18.098	0.002			23.40					125' +/- S. OF CL OF BOSTON AVE
STADIA	20.020	226.600		10.000	200.700			20.10					120 17 0. 01 02 01 00010117112
		_											
	7.400			6.950									
TP5	6.589	6.590	39.907	5.805	5.807	33.317		455.00	-0.000132675	-0.000673875	33.318	10.155	
	5.780	-0.001		4.666	-0.002			-1.80					
	19.769			17.421				21.60					
STADIA		162.000			228.400								

C-258	7050.04	PARTY CHIEF	A. McKINNE	DATE:	July 26	, 2007		Datum:	NGVD 1929	FIELD BOOK 278	PAGES	9-11	
STATION	3 WIRE	AVG.(ENG)	ні	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
	5.610			5.295									
TP6	5.090		40.467	4.528	4.530	35.377		314.70	-0.000091765	-0.000765640	35.377	10.783	
	4.570	0.000		3.768	-0.002			9.30					
	15.270			13.591				30.90					
STADIA		104.000			152.700								
	6.030			5.045									
TP7	4.830	4.833	40.943		4.357	36.110		241.80	-0.000070508	-0.000836147	36.111	11.007	SET SFWMD IN CONCRETE MEDIAN
	3.640	-0.003		3.667	0.001			-33.80					C-258 2007 CL MAIN ST. 60' +/- W. OF CL
	14.500			13.070				-2.90					OF 2nd STREET9' +/- W. OF THE BULLNOSE
STADIA		239.000			137.800								OPP. ADDRESS 111 MAIN STREET
	6.920			8.090									
TP8	5.756	5.758	39.784	6.915	6.917	34.027		473.50	-0.000138070	-0.000974217	34.028	10.372	
	4.597	-0.002		5.745	-0.002			4.50					
221211	17.273			20.750				1.60					
STADIA		232.300			234.500								
	5 100		<u> </u>	0.070									
	5.400	4.470	22.224	8.270	7.407	00.050		404.00	0.000404540	0.004400700	22.252	0.054	
TP9	4.175		36.831	7.130	7.127	32.658		461.30	-0.000134513	-0.001108730	32.659	9.954	
	2.945	0.002		5.980	0.003			3.30					
OTABLA	12.520	0.45.500		21.380	200 000			4.90					
STADIA		245.500	ļ		229.000								
	0.070		<del> </del>	0.450									
TD40	6.370	E 470	27.000	6.150	4.000	24.000		400.00	0.0004.40500	0.004054040	24 000	0.700	
TP10	5.170		37.068		4.933	31.898		489.00	-0.000142590	-0.001251319	31.900	9.723	
	3.970	0.000		3.715	0.000			2.00					
CTADIA	15.510			14.798	040.500			6.90					
STADIA		240.000	<u> </u>		243.500								

C-258	7050.04	PARTY CHIEF	A. McKINNE	DATE:	July 26,	2007		Datum:	NGVD 1929	FIELD BOOK 278	PAGES	9-11	
STATION	3 WIRE	AVG.(ENG)	НІ	3 WIRE	AVG.(ENG)	ELEV.	BM EL.	DIST.	ERROR	ACCUM.	ADJ. ELEV.	METRIC	DESCRIPTION
		, ,			` ′								
	6.870			7.430									
TP11	5.620	5.623	36.487	6.204	6.205	30.864		485.00	-0.000141423	-0.001392743	30.865	9.408	
	4.380	-0.003		4.980	-0.001			-5.00					
	16.870			18.614				1.90					
STADIA		249.000			245.000								
	5.363			8.695									
TP12	4.273	4.270	33.277	7.480	7.480	29.007		492.00	-0.000143464	-0.001536207	29.009	8.842	
	3.174	0.003		6.265	0.000			6.00					
	12.810			22.440				7.90					
STADIA		218.900			243.000								
				6.545									
ВМ				5.400	5.402	27.875	27.877	228.50	-0.000066629	-0.001666667	27.877	8.497	E-533 SS ROD IN LOGO
				4.260	-0.002			-228.50					CAP 20' +/- N. OF CL OF E. EUSTIS
				16.205				-1.70					AVE. & 65' +/- E. OF S. 1st ST.
					228.500								
							LOR=		CHECK VALUES T				
									OR TO SEE THEY				
	TOTAL + =	2857.000		TOTAL -=				5715.70	THIRD ORDER SP	ECS( MAX DIFF. 3	33 FT.)		
					-1.70								
						OSURE=	-0.002						
					ERROR PE		0.000						
		MTS A	LLOWABLE	ERROR	FOR THIRD		0.031						
					ACTUAL	ERROR=	0.002	RED II	BADGREEN IF	GOOD			