

SURVEYOR'S REPORT

MAP OF RECORD SURVEY:

THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER (SEE SHEET INDEX IN TITLE BLOCK)

LEGAL DESCRIPTION:

NOT APPLICABLE. THIS IS NOT A BOUNDARY SURVEY.

INTENT:

THE INTENT OF THIS RECORD SURVEY IS TO SHOW THE RELATIONSHIP OF FIELD MEASURED IMPROVEMENTS TO THE CONSTRUCTION PLANS REFERENCED IN DATA SOURCE 4.

ACCURACY:

1. THE ACCURACY STANDARD USED FOR THIS SURVEY, AS CLASSIFIED IN THE MINIMUM TECHNICAL STANDARDS (5J-17 FAC), IS "COMMERCIAL/HIGH RISK". THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF SURVEY IS 1 FOOT IN 10,000 FEET. THE ACCURACY OBTAINED BY MEASUREMENT AND CALCULATION OF A CLOSED GEOMETRIC FIGURE WAS 1 FOOT IN 26,668 FEET.

2. PRIMARY CONTROL POINT POSITIONS FOR THIS SURVEY ARE CONTROL POINT #506 AND CONTROL POINT #507, AS SHOWN ON THE CONSTRUCTION PLANS REFERENCED IN DATA SOURCE 4, AND AS SHOWN ON THE MAP OF SURVEY. [SEE LIMITATION #11]

3. CONTROL ELEVATIONS FOR THIS SURVEY ARE BASED ON A LEVEL LOOP USING DIFFERENTIAL LEVELING TECHNIQUES. CLOSURES ACHIEVED IS 0.006" ERROR IN A 0.18 MILE LOOP LENGTH WHICH EXCEEDS THE MINIMUM ACCURACY REQUIREMENT CALCULATED AT A MAXIMUM MIS-CLOSURE OF 0.021 FEET. [SEE LIMITATION #12]

4. HORIZONTAL CONTROL MEASUREMENTS WERE MADE WITH A TRANSIT AND STEEL TAPE, OR DEVICES WITH EQUIVALENT OR HIGHER DEGREES OF ACCURACY.

DATA SOURCES:

1. THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALCULATED BEARING BETWEEN CONTROL POINT #506 AND CONTROL POINT #507 [SEE LIMITATION #11], CALCULATED AS BEING S89°55'01"E, AS SHOWN ON THE MAP OF SURVEY.

2. HORIZONTAL COORDINATES (IN U.S. SURVEY FEET) FOR THIS SURVEY ARE BASED UPON THE SITE DATUM FOR THE CONSTRUCTION PLANS REFERENCED IN DATA SOURCE 4. CONTROL POINTS UTILIZED ARE SHOWN AS (a) CONTROL POINT #506, A FOUND 1/2" IRON ROD WITH AN ILLEGIBLE CAP (N=1,467,701.20', E=318,429.90'); and (b) CONTROL POINT #507, A FOUND 1/2" IRON ROD WITH AN ILLEGIBLE CAP (N=1,467,700.33', E=319,029.94'). [SEE LIMITATION #11]

3. ELEVATIONS ARE BASED ON SITE BENCHMARKS SHOWN ON THE CONSTRUCTION PLANS REFERENCED IN DATA SOURCE 4. SITE BENCHMARKS UTILIZED ARE SHOWN ON THE MAP OF SURVEY AS (a) "SITE TBM #1", A FOUND BOX CUT IN HEADWALL, ELEVATION 51.02'; and (b) "SITE TBM #2", A FOUND RAILROAD SPIKE SET IN A POWER POLE, ELEVATION 49.94'. [SEE LIMITATION #12]

4. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF THAT CERTAIN SET OF CONSTRUCTION PLANS PREPARED BY CAMP, DRESSER & McKEE, INC. TITLED "WEST PASCO CLASS 1 LANDFILL CELL A-4", PROJECT NUMBER 6104-46136, LAST REVISED 6/29/2009, AND ELECTRONIC DRAWING FILE COPIES THEREOF. ALL SHADED BACK INFORMATION IS ACCORDING TO SAID ELECTRONIC DRAWING FILES AND HAS NOT BEEN MODIFIED BESIDES SHADING FOR UNDERLAY PURPOSES.

5. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT.

6. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF A RECORD SURVEY PREPARED BY FLORIDA DESIGN CONSULTANTS, INC. TITLED "PASCO COUNTY LANDFILL CELL A-4", JOB NUMBER 2009-70, LAST REVISED 12/21/2009.

7. EXISTING GROUND ELEVATIONS AT THE POINT OF EXISTING GAS LINE AND PROPOSED FORCEMAIN INTERSECTIONS AT THE SOUTHEAST AND SOUTHWEST CORNER OF THE SITE WERE PROVIDED BY THE CONTRACTOR ON 4/28/2010.

LIMITATIONS:

1. USE OF THIS SURVEY BY ANYONE OTHER THAN THOSE PREPARED FOR/CERTIFIED TO WILL BE THE RE-USERS SOLE RISK WITHOUT LIABILITY TO THE SURVEYOR.

2. THERE MAY BE ADDITIONAL EASEMENTS AND/OR RESTRICTIONS AFFECTING THIS PROPERTY THAT MAY OR MAY NOT BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

3. PRINTED DIMENSIONS SHOWN ON THE SURVEY SUPERSEDE SCALED DIMENSIONS. THERE MAY BE ITEMS DRAWN OUT OF SCALE TO GRAPHICALLY SHOW THEIR LOCATION.

4. CALCULATED (C) GEOMETRY SHOWN HEREON WAS CALCULATED USING FIELD LOCATED POINTS AND CERTAIN PUBLISHED DATA.

5. SHOWN ANYWHERE ON THIS SURVEY, THE WORD "CERTIFY" IS UNDERSTOOD TO BE AN EXPRESSION OF A PROFESSIONAL OPINION BASED UPON THE SURVEYOR'S BEST KNOWLEDGE, INFORMATION AND BELIEF, AND THAT IT THUS CONSTITUTES NEITHER A GUARANTEE NOR A WARRANTY.

6. THE SHADED BACK INFORMATION SHOWN ON THE MAP OF SURVEY [SEE DATA SOURCE 4] IS FOR INFORMATIONAL PURPOSES ONLY AND WAS NOT MODIFIED FROM IT'S ORIGINAL FORMAT BESIDES SHADING THE INFORMATION FOR UNDERLAY PURPOSES. ALL FEATURES SURVEYED BY FLORIDA DESIGN CONSULTANTS, INC. ARE SHOWN AS SOLID TEXT, LINES AND SYMBOLS WHICH IS NOT SHADED BACK.

7. THIS SURVEYOR CERTIFIES ONLY TO THE RECORD INFORMATION SHOWN ON THE MAP OF SURVEY. ALL SHADED BACK IMPROVEMENTS ARE PER THAT CERTAIN ELECTRONIC DRAWING FILE REFERENCED IN DATA SOURCE 4, AND WERE NOT FIELD VERIFIED EXCEPT AS SHOWN ON THE MAP OF SURVEY.

8. THE LOCATIONS OF THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES WERE PERFORMED BY A FIELD SURVEY AND ONLY LOCATED AS SHOWN ON THE MAP OF THE SURVEY. ONLY THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES WHICH WERE VISIBLE FROM GROUND LEVEL TO THE SURVEYOR ON THE ACTUAL DAY OF THE FIELD SURVEY WERE LOCATED AND MAPPED. NO EXCAVATIONS OR SUBSURFACE WORK EFFORTS OF ANY KIND WERE PERFORMED BY THE SURVEYOR TO VERIFY THE EXISTENCE OF ANY UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE GAS LINE SHOWN HEREON WAS LOCATED UTILIZING ABOVE GROUND GAS LINE MARKERS.

9. ALL BOUNDARY AND EASEMENT INFORMATION SHOWN HEREON IS SOLELY BASED UPON THOSE CERTAIN MAPS AND ELECTRONIC DRAWING FILES REFERENCED IN DATA SOURCE 4, FLORIDA DESIGN CONSULTANTS, INC. AND THE SURVEYOR AND MAPPER IN RESPONSIBLE CHARGE DOES NOT GUARANTEE THE VALIDITY OF SAID BOUNDARY INFORMATION OTHER THAN CONFORMATION TO SAID MAPS AND ELECTRONIC DRAWING FILES.

10. ORIGINAL FIELD WORK WAS COMPLETED ON 1/19/2010 AND IS CONTAINED IN FIELD BOOK 1526. FIELD WORK FOR REVISION 2 WAS COMPLETED ON 3/3/2010 AND IS CONTAINED IN FIELD BOOK 1526. FIELD WORK FOR REVISION 3 WAS COMPLETED ON 3/15/2010, IS CONTAINED IN FIELD BOOK 1526 AND IS LIMITED TO THE LINER EDGE AND PROPOSED FORCEMAIN LOCATION AS MARKED BY THE CONTRACTOR. FIELD WORK FOR REVISION 4 WAS COMPLETED ON 3/31/2010, IS CONTAINED IN FIELD BOOK 1526 AND IS LIMITED TO THE SPOT GRADES ON THE PROPOSED POND. FIELD WORK FOR REVISION 5 WAS COMPLETED ON 4/7/2010, IS CONTAINED IN FIELD BOOK 1526 AND IS LIMITED TO THE SPOT GRADES ON THE PROPOSED POND BEFORE THE LEACHATE SYSTEM WAS INSTALLED. FIELD WORK FOR REVISION 6 WAS COMPLETED ON 4/13/2010, IS CONTAINED IN FIELD BOOK 1526 AND IS LIMITED TO THE SPOT GRADES ON THE WEST 1/3 OF THE PROPOSED POND. FIELD WORK FOR REVISION 7 WAS COMPLETED ON 4/26/2010, IS CONTAINED IN FIELD BOOK 1526 AND IS LIMITED TO THE EXISTING 12" GAS LINE LOCATIONS AND DIMENSIONS TO THE PLAN FORCEMAIN FROM THE FIELD LOCATED EDGE OF PAVEMENT. REVISION 7 ALSO REMOVED THE PROPOSED FORCEMAIN LOCATION AS MARKED BY THE CONTRACTOR ADDED DURING REVISION 3. REVISION 8 IS LIMITED TO ADDING TIES TO THE GAS LINE AND EXISTING GROUND ELEVATION AT CROSSINGS (NO FIELD WORK PERFORMED). REVISION 9 IS LIMITED TO ADDING CROSSING DETAILS AT EAST AND WEST GAS LINE CROSSINGS (NO FIELD WORK PERFORMED). FIELD WORK FOR REVISION 10 COMMENCED ON 6/10/2010 AND WAS COMPLETED ON 7/8/2010, IS CONTAINED IN FIELD BOOK 1526 PAGES 70-73 AND IS LIMITED TO ADDING FORCEMAIN, LEACHATE DETECTION SYSTEM, LEACHATE COLLECTION SYSTEM LOCATIONS AND GROUND ELEVATIONS. FIELD WORK FOR REVISION 11 WAS PERFORMED ON 7/22/2010, IS CONTAINED IN FIELD BOOK 1526 PAGE 69 AND IS LIMITED TO ADDING LEACHATE SYSTEM AND STORM DRAIN PIPE LOCATIONS. FIELD WORK FOR REVISION 12 COMMENCED 8/26/2010 AND COMPLETED ON 10/19/2010, IS CONTAINED IN FIELD BOOK 1526 PAGES 68-61 AND IS LIMITED TO ADDING FORCEMAIN, WATER LINE, DRAINAGE STRUCTURES, LEACHATE SYSTEM, FINAL GROUND ELEVATIONS AND LIMITS OF SOD. FIELD WORK FOR REVISION 13 WAS PERFORMED ON 10/21/2010 AND IS LIMITED TO ADDING LIMITS OF SOD AT THE NORTHEAST CORNER. FIELD WORK FOR REVISION 14 WAS PERFORMED ON 11/5/2010 AND IS LIMITED TO ADDING SOD AREAS, LEACHATE SYSTEM, PARKING AND STORM DRAIN PIPE LOCATIONS. REVISION 15 IS LIMITED TO ADDING COORDINATES ON THE MONITORING WELLS AT THE CLIENTS REQUEST (NO FIELD WORK PERFORMED). REVISION 16 IS LIMITED TO ADDING LATITUDE AND LONGITUDE ON THE MONITORING WELLS (NO FIELD WORK PERFORMED). FIELD WORK FOR REVISION 17 WAS PERFORMED ON 2/23/2011, IS CONTAINED IN FIELD BOOK 1526 AND IS LIMITED TO ADDING LEACHATE SYSTEM LOCATIONS AND BORE DATA AT THE STORAGE TANK SHOWN ON SHEET 3. REVISE MONITOR WELL INFORMATION FROM PLAN COORDINATES TO STATE PLANE COORDINATES NORTH AMERICAN DATUM 1983/1990 ADJUSTMENT FLORIDA WEST ZONE (902).

11. THERE WERE TWO CONTROL POINT #506's ACCORDING TO THE CONSTRUCTION PLANS REFERENCED IN DATA SOURCE 4 [SEE SHEET G-2 "EXISTING CONDITIONS, CONSTRUCTION LIMITS, AND MONITORING WELLS" OF SAID CONSTRUCTION PLANS FOR EXAMPLE]. THE EASTERN MOST CONTROL POINT LABELED AS CONTROL POINT #506 ON SAID CONSTRUCTION PLANS WAS RENUMBERED BY THIS SURVEYOR TO CONTROL POINT #507 FOR IDENTIFICATION PURPOSES ONLY.

12. FLORIDA DESIGN CONSULTANTS, INC. PERFORMED A LEVEL BENCH RUN FROM SITE TBM #1, THROUGH CONTROL POINTS #506 AND #507 (SEE LIMITATION #11), TO SITE TBM #2. IT WAS DISCOVERED THAT THE ELEVATION SHOWN ON THE CONSTRUCTION PLANS [SEE DATA SOURCE #4] FOR CONTROL POINT #506 IS NOT CONSISTENT WITH THE ELEVATIONS SHOWN FOR THE SITE BENCHMARKS UTILIZED AND CONTROL POINT #507. THE ELEVATION SHOWN FOR SAID CONTROL POINT #506 IS 51.59', BASED ON MEASUREMENTS BY THIS SURVEYOR THE ELEVATION OF SAID CONTROL POINT #506, UTILIZING THE BENCHMARKS AS PROVIDED, IS 50.38'. [SEE ACCURACY #3]

13. THE LOCATION OF AS-BUILT UNDERGROUND UTILITY LINES SHOWN HEREON IS BASED ON INFORMATION PROVIDED BY THE CONTRACTOR AND FIELD SURVEY EFFORTS. AS NOTED ABOVE THE UTILITY CONTRACTOR MARKED CONSTRUCTED UNDERGROUND UTILITY LINES WITH EITHER A P.V.C. STANDPIPE OR WOOD STAND WITH A DIMENSION MARKED TO THE TOP OF PIPE IN ORDER FOR THE SURVEYOR TO OBTAIN A HORIZONTAL AND VERTICAL LOCATION ON TOP OF THE CONSTRUCTED UTILITY LINE. THE PIPELINE WAS BACK FILLED PRIOR TO THE RECORD SURVEY EFFORT WITH NO VISIBLE EVIDENCE TO SUPPORT THE ACTUAL PIPELINE LOCATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE STANDPIPE OR WOOD STAND PLACED BY THE CONTRACTOR WAS INSTALLED ACCURATELY ON TOP OF THE PIPE. THE UNDERSIGNED SURVEYOR MAKES NO GUARANTEE AS TO THE ACTUAL LOCATION OF ANY UNDERGROUND UTILITY LINES. TO AVOID DAMAGE TO EXISTING FACILITIES THE LOCATION OF EXISTING PIPELINES MUST BE VERIFIED PRIOR TO ANY EXCAVATION OR UNDERGROUND CONSTRUCTION ACTIVITIES BY USING GOOD CONSTRUCTION PRACTICES AND CONTACTING SUNSHINE STATE ONE CALL IN ACCORDANCE WITH FLORIDA STATUTES 553.851(1979).

BOUNDARY INCONSISTENCIES:

NOT APPLICABLE. THIS IS NOT A BOUNDARY SURVEY.

APPARENT PHYSICAL USE:

THE SUBJECT PROPERTY IS PART OF A SOLID WASTE LANDFILL, IS UNDER CONSTRUCTION AND CONTAINS IMPROVEMENTS NOT SHOWN ON THE MAP OF SURVEY.

EASEMENTS/RIGHT-OF-WAY:

NOT APPLICABLE. THIS IS NOT A BOUNDARY SURVEY.

PREPARED FOR:

RIPA & ASSOCIATES, INC.

CERTIFIED TO:

RIPA & ASSOCIATES, INC.

SURVEYOR AND MAPPER IN RESPONSIBLE CHARGE:

DENNIS BOGGS
PROFESSIONAL SURVEYOR AND MAPPER
LICENSE NUMBER LS 6069
STATE OF FLORIDA

ABBREVIATIONS LEGEND

AC	= Acres	FN&TT	= Found Nail and Tin Tab
A/C	= Air Conditioner	FOP	= Found Open End Iron Pipe
ADW	= Asphalt Driveway	FPB	= Electric Power Box
ADS	= Advance Drainage Systems	FPC	= Electric Power Company
ASPH	= Asphalt	FPP	= Found Pinched Iron Pipe
B/C	= Back of Curb	FRRS	= Found Railroad Spike
BCOM	= Board of County Commissioners Minutes Book	FT	= Feet
BFPD	= Back Flow Prevention Device	F/T	= Fence Tie
BLDG	= Building	FXC	= Found X-cut
BNDY	= Boundary	G/A	= Guy Wire Anchor
BO	= Blow Off Valve	GE	= Grite Elevation
(C)	= Calculated Data	GI	= Grite Inlet
C/C	= Covered Concrete	GV	= Gas Valve
CCCL	= Coastal Construction Control Line	IE	= Invert Elevation
COR	= Certified Corner Record	INV	= Invert
COW	= Concrete Driveway	LB	= Corporate Certification Number
CI	= Curb Inlet	LCS	= Leachate Collection System
CL	= Center Line	LDS	= Leachate Detection System
CLF	= Chain Link Fence	LF	= Linear Feet
CM	= Concrete Monument	LP	= Light Pole
CMP	= Corrugated Metal Pipe	LS	= Licensed Surveyor
CO	= Clean out	MAS	= Masonry
CONC	= Concrete	MES	= Mitered End Section
COR	= Corner	MH	= Manhole
CPB	= Condo Plat Book	MHW	= Mean High Water
C/S	= Concrete Slab	MOL	= More or Less
C/T	= Curb Tie	N	= North
DB	= Deed Book	N/C	= No Cap
DCVA	= Double Check Valve Assembly	N/F	= Not Found
DNR	= Department of Natural Resources	N/S	= Not Set
DEPT	= Department	N/A	= Not Accessible/Not Complete
DIA	= Diameter	NAD	= North American Datum
DIP	= Ductile Iron Pipe	NAVd	= North American Vertical Datum
DMH	= Drainage Manhole	NGS	= National Geodetic Survey
E	= East	NOVD	= National Geodetic Vertical Datum
ECMP	= Elliptical Corrugated Metal Pipe	NP	= Normal Pool Elevation
EL	= Elevation	(NR)	= Non Radial
EOW	= Edge of Water	O/A	= Overall
E/P	= Edge of Pavement	OHW	= Overhead Wire
EOP	= End of Pipe	ORB	= Official Record Book
ESMT	= Easement	(PA)	= Property Appraisers Map Data
(F)	= Field Data	PB	= Plat Book
FCM	= Found Concrete Monument	PC	= Point of Curvature
FDOT	= Florida Department of Transportation	PCED	= Pinellas County Engineering Department
FI	= Fire Hydrant	PACED	= Pasco County Engineering Department
FIR	= Found Iron Rod and Cap	PCSD	= Pinellas County Survey Department
FL	= Fire Line	PACSD	= Pasco County Survey Department
FND	= Found	PCP	= Permanent Control Point
FN&D	= Found Nail and Disk	PG(S)	= Pages
FFE	= Finished Floor Elevation	PI	= Point of Intersection
		PID	= Permanent Identification Number

PL	= Property Line
PLS	= Professional Land Surveyor
POB	= Point of Beginning
POC	= Point of Commencement
POL	= Point on Line
PRM	= Permanent Reference Monument
PSM	= Professional Surveyor and Mapper
PT	= Point of Tangency \ Point
PVC	= Polyvinyl Chloride Pipe
(R)	= Recorded Data
RCP	= Reinforced Concrete Pipe
RLS	= Registered Land Surveyor
RNG	= Range
R/W	= Right of Way
S	= South
(S)	= Survey Data (See Data Source 5)
SCM	= Set Concrete Monument, 4"x4", PRM LB 6707
SCM(W)	= Set Concrete Monument, 4"x4", FDC LB 6707 WITNESS PT
SEC	= Section
SHW	= Seasonal High Water Elevation
SIR	= Set 5/8" Iron Rod and Cap, FDC LB 6707
SIR(W)	= Set 5/8" Iron Rod and Cap, FDC LB 6707 WITNESS PT
SMH	= Sanitary Manhole
SN&D	= Set Nail and Disk, FDC LB 6707
SN&D(W)	= Set Nail and Disk, FDC LB 6707 WITNESS PT
SO	= Square
SR	= State Road
STY	= Story
SWFWMD	= Southwest Florida Water Management District
S/W	= Sidewalk
TBM	= Temporary Benchmark
TBO	= Temporary Blow-off
TOB	= Top of Bank
TRAV	= Traverse
(TYP)	= Typical
TWP	= Township
U/P	= Utility Pole
VCP	= Vitrified Clay Pipe
W	= West
W/	= With
W/F	= Wood Fence
WL	= Water Line
WUP	= Wood Utility Pole
W/T	= Wall Tie
WV	= Water Valve
xx'	= Degrees
xx"	= Minutes (Bearings)
xx'	= Seconds (Bearing)
xx'	= Feet (Distances)

LINETYPE LEGEND

---	= Boundary Line
---	= Center Line
---	= Easement Line
---	= Edge of Water
---	= Jurisdictional Line
---	= Right-Of-Way Line
---	= Section Line
---	= Top Bank or Top of Berm
---	= Toe of Slope or Grade Break
---	= Gas Line (See Limitation 8)
---	= Proposed Foremain
---	= Foremain
---	= Storm Sewer Line (See Limitation 12)

SYMBOLS LEGEND

+	= Aerial Target	⊕	= Metal Post
⊕	= Bench Mark	⊕	= Monitoring Well
⊕	= Cable TV Point Stripe	⊕	= Parking Meter
⊕	= Cable TV Box	⊕	= Reclaimed Water Point Stripe
⊕	= Communications Manhole	⊕	= Reclaimed Water Box
⊕	= Concrete Light Pole	⊕	= Sanitary Foremain Valve
⊕	= Concrete Post	⊕	= Sanitary Sewer Manhole
⊕	= Concrete Utility Pole	⊕	= Sanitary Cleanout/Drainage Cleanout
⊕	= Drainage Manhole	⊕	= Sanitary Sewer Point Stripe
⊕	= Electric Box	⊕	= Section Corner
⊕	= Electric Manhole	⊕	= Siamese Connection
⊕	= Electric Power Point Stripe	⊕	= Sign
⊕	= Electric Power Pedestal	⊕	= Sprinkler Control Box
⊕	= Fire Hydrant	⊕	= Sprinkler Head
⊕	= Flag Pole	⊕	= Storm Water Point Stripe
⊕	= Gas Line Marker	⊕	= Traffic Signal Box
⊕	= Gas Filler Cap	⊕	= Traffic Signal Pole
⊕	= Gas Valve	⊕	= Verizon Point Stripe
⊕	= Gas Meter Box	⊕	= Water Line Point Stripe
⊕	= Gas Line Point Stripe	⊕	= Water Meter
⊕	= Grite Inlet	⊕	= Water Valve
⊕	= Telephone Manhole	⊕	= Wood Utility Pole
⊕	= Telephone Pedestal	⊕	= Wood Light Pole
⊕	= Telephone Marker	⊕	= Wood Post
⊕	= Guy Anchor	⊕	= Per Plan
⊕	= Light Pole		
⊕	= Mail Box		
⊕	= Water Service (one whip)		
⊕	= Water Service (two whips)		

25.2' = Point of Elevation
25.2' = Calculated Dimension from Structure to Boundary / Right-of-Way Line

THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER

DRAWN JEB CHECKED JEB QUALITY CONTROL DB	 FLORIDA DESIGN CONSULTANTS, INC. ENGINEERS, ENVIRONMENTALISTS, SURVEYORS & PLANNERS 3030 Starkey Blvd, New Port Richey FL, 34655 Tel. (727) 649-7588 - Fax: (727) 648-3648 Certificate of Authorization: LB 6707 State of Florida	SUBJECT: PASCO COUNTY LANDFILL	SHEET DESCRIPTION: RECORD SURVEY REPORT AND LEGENDS	<table><tr><td>18</td><td>4-19-2011</td><td>REVISE LATITUDE AND LONGITUDE ON MONITOR WELLS (NO FIELD WORK PERFORMED)</td><td>DB</td><td>DB</td><td rowspan="5">SHEET INDEX: 1. SURVEYOR'S REPORT 2-3. MAP OF SURVEY - UTILITIES 4. MAP OF SURVEY - CELL ELEVATIONS 5. MAP OF SURVEY - MONITOR WELLS ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED.</td></tr><tr><td>17</td><td>3-1-2011</td><td>ADD LEACHATE SYSTEM BORE LOCATION</td><td>LCS</td><td>DB</td></tr><tr><td>16</td><td>2-18-2011</td><td>ADD LATITUDE AND LONGITUDE ON MONITORING WELLS (NO FIELD WORK PERFORMED)</td><td>DB</td><td>DB</td></tr><tr><td>15</td><td>11-11-2010</td><td>ADD LEACHATE SYSTEM ELEVATION</td><td>LCS</td><td>DB</td></tr><tr><td>14</td><td>11-8-2010</td><td>ADD SOD AREAS, LEACHATE SYSTEM, PARKING AND STORM DRAIN PIPE LOCATIONS</td><td>LCS</td><td>DB</td></tr><tr><td>1-13</td><td>VARIOUS</td><td>SEE LIMITATIONS 10</td><td>JEB</td><td>DB</td></tr><tr><td>NO.</td><td>DATE</td><td>REVISIONS</td><td>BY</td><td>QUALITY CONTROL</td><td></td></tr></table>	18	4-19-2011	REVISE LATITUDE AND LONGITUDE ON MONITOR WELLS (NO FIELD WORK PERFORMED)	DB	DB	SHEET INDEX: 1. SURVEYOR'S REPORT 2-3. MAP OF SURVEY - UTILITIES 4. MAP OF SURVEY - CELL ELEVATIONS 5. MAP OF SURVEY - MONITOR WELLS ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED.	17	3-1-2011	ADD LEACHATE SYSTEM BORE LOCATION	LCS	DB	16	2-18-2011	ADD LATITUDE AND LONGITUDE ON MONITORING WELLS (NO FIELD WORK PERFORMED)	DB	DB	15	11-11-2010	ADD LEACHATE SYSTEM ELEVATION	LCS	DB	14	11-8-2010	ADD SOD AREAS, LEACHATE SYSTEM, PARKING AND STORM DRAIN PIPE LOCATIONS	LCS	DB	1-13	VARIOUS	SEE LIMITATIONS 10	JEB	DB	NO.	DATE	REVISIONS	BY	QUALITY CONTROL		<table><tr><td>JOB NUMBER, 2009-70</td><td>SPN, N/A</td></tr><tr><td>PROJECT DATA NAME, 2009-70-CON</td><td></td></tr><tr><td>FIELD BOOK NUMBER & PAGES, SEE LIMITATIONS 10</td><td></td></tr><tr><td>LAST DATE OF ORIGINAL FIELD WORK, SEE LIMITATIONS 10</td><td></td></tr><tr><td>SCALE, NONE</td><td></td></tr></table>	JOB NUMBER, 2009-70	SPN, N/A	PROJECT DATA NAME, 2009-70-CON		FIELD BOOK NUMBER & PAGES, SEE LIMITATIONS 10		LAST DATE OF ORIGINAL FIELD WORK, SEE LIMITATIONS 10		SCALE, NONE		<table><tr><td>SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.</td><td>SHEET 1</td></tr><tr><td> PROFESSIONAL SURVEYOR AND MAPPER LICENSE NUMBER LS 6069 STATE OF FLORIDA</td><td>5</td></tr></table>	SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.	SHEET 1	 PROFESSIONAL SURVEYOR AND MAPPER LICENSE NUMBER LS 6069 STATE OF FLORIDA	5
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CONTROL POINTS			
POINT #	NORTHING	EASTING	ELEVATION
100	1,467,688.18(F)	318,274.28(F)	50.11(F)
101	1,468,432.41(F)	318,221.34(F)	44.13(F)
102	1,468,595.19(F)	319,662.75(F)	64.77(F)
103	1,467,701.84(F)	319,622.85(F)	51.51(F)
506	1,467,701.20(P)	318,429.90(P)	50.38(C)
507	1,467,700.33(P)	319,029.94(P)	51.59(P)

FLORIDA DESIGN CONSULTANTS, INC.
PERFORMED A LEVEL BENCH RUN WHICH
RESULTED IN A MEASURED ELEVATION FOR
CONTROL POINT #506 OF 50.38' (SEE
LIMITATION 12 FOR MORE INFORMATION)



FLORIDA DESIGN CONSULTANTS, INC.
ENGINEERS, ENVIRONMENTALISTS, SURVEYORS & PLANNERS

3030 Starkey Blvd, New Port Richey FL, 34655
Tel: (727) 849-7588 - Fax: (727) 848-3648

Certificate of Authorization: LB 6707
State of Florida

SUBJECT:

PASCO COUNTY LANDFILL

SHEET DESCRIPTION:

RECORD SURVEY
MONITOR WELLS

NO.	DATE	REVISIONS
18	4-19-2011	REVISE LATITUDE AND LONGITUDE ON MONITOR WELLS (NO FIELD WORK PERFORMED)
17	3-1-2011	ADD LEACHATE SYSTEM BORE LOCATION
16	2-18-2011	ADD LATITUDE AND LONGITUDE ON MONITORING WELLS (NO FIELD WORK PERFORMED)
15	11-11-2010	ADD LEACHATE SYSTEM ELEVATION
14	11-8-2010	ADD 500 AREAS, LEACHATE SYSTEM, PARKING AND STORM DRAIN PIPE LOCATIONS
1-13	VARIOUS	SEE LIMITATIONS 10

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1-13	VARIOUS	SEE LIMITATIONS 10

THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER

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1. SURVEYOR'S REPORT
2-3. MAP OF SURVEY - UTILITIES
4. MAP OF SURVEY - CELL ELEVATIONS
5. MAP OF SURVEY - MONITOR WELLS

ADDITIONS OR DELETIONS TO SURVEY MAPS
OR REPORTS BY OTHER THAN THE SIGNING
PARTY OR PARTIES IS PROHIBITED.

PROFESSIONAL SURVEYOR AND MAPPER
LICENSE NUMBER LS 6069
STATE OF FLORIDA

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAY 04 2011
SOUTHWEST DISTRICT
TAMPA

SHEET 5
OF 5

SURVEYOR'S REPORT

MAP OF RECORD SURVEY:

THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER (SEE SHEET INDEX IN TITLE BLOCK)

LEGAL DESCRIPTION:

NOT APPLICABLE. THIS IS NOT A BOUNDARY SURVEY.

INTENT:

THE INTENT OF THIS RECORD SURVEY IS TO SHOW THE RELATIONSHIP OF FIELD MEASURED IMPROVEMENTS TO THE CONSTRUCTION PLANS REFERENCED IN DATA SOURCE 4.

ACCURACY:

1. THE ACCURACY STANDARD USED FOR THIS SURVEY, AS CLASSIFIED IN THE MINIMUM TECHNICAL STANDARDS (5J-17 FAC), IS "COMMERCIAL/HIGH RISK". THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF SURVEY IS 1 FOOT IN 10,000 FEET. THE ACCURACY OBTAINED BY MEASUREMENT AND CALCULATION OF A CLOSED GEOMETRIC FIGURE WAS 1 FOOT IN 26,668 FEET.

2. PRIMARY CONTROL POINT POSITIONS FOR THIS SURVEY ARE CONTROL POINT #506 AND CONTROL POINT #507, AS SHOWN ON THE CONSTRUCTION PLANS REFERENCED IN DATA SOURCE 4, AND AS SHOWN ON THE MAP OF SURVEY. [SEE LIMITATION #11]

3. CONTROL ELEVATIONS FOR THIS SURVEY ARE BASED ON A LEVEL LOOP USING DIFFERENTIAL LEVELING TECHNIQUES. CLOSURES ACHIEVED IS 0.006' ERROR IN A 0.18 MILE LOOP LENGTH WHICH EXCEEDS THE MINIMUM ACCURACY REQUIREMENT CALCULATED AT A MAXIMUM MIS-CLOSURE OF 0.021 FEET. [SEE LIMITATION #12]

4. HORIZONTAL CONTROL MEASUREMENTS WERE MADE WITH A TRANSIT AND STEEL TAPE, OR DEVICES WITH EQUIVALENT OR HIGHER DEGREES OF ACCURACY.

DATA SOURCES:

1. THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALCULATED BEARING BETWEEN CONTROL POINT #506 AND CONTROL POINT #507 [SEE LIMITATION #11], CALCULATED AS BEING S89°55'01"E, AS SHOWN ON THE MAP OF SURVEY.

2. HORIZONTAL COORDINATES (IN U.S. SURVEY FEET) FOR THIS SURVEY ARE BASED UPON THE SITE DATUM FOR THE CONSTRUCTION PLANS REFERENCED IN DATA SOURCE 4. CONTROL POINTS UTILIZED ARE SHOWN AS (a) CONTROL POINT #506, A FOUND 1/2" IRON ROD WITH AN ILLEGIBLE CAP (N=1,467,701.20', E=318,429.90'); and (b) CONTROL POINT #507, A FOUND 1/2" IRON ROD WITH AN ILLEGIBLE CAP (N=1,467,700.33', E=319,029.94'). [SEE LIMITATION #11]

3. ELEVATIONS ARE BASED ON SITE BENCHMARKS SHOWN ON THE CONSTRUCTION PLANS REFERENCED IN DATA SOURCE 4. SITE BENCHMARKS UTILIZED ARE SHOWN ON THE MAP OF SURVEY AS (a) "SITE TBM #1", A FOUND BOX CUT IN HEADWALL, ELEVATION 51.02'; and (b) "SITE TBM #2", A FOUND RAILROAD SPIKE SET IN A POWER POLE, ELEVATION 49.94'. [SEE LIMITATION #12]

4. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF THAT CERTAIN SET OF CONSTRUCTION PLANS PREPARED BY CAMP, DRESSER & MCKEE, INC., TITLED "WEST PASCO CLASS I LANDFILL CELL A-4", PROJECT NUMBER 6104-46136, LAST REVISED 6/29/2009, AND ELECTRONIC DRAWING FILE COPIES THEREOF. ALL SHADED BACK INFORMATION IS ACCORDING TO SAID ELECTRONIC DRAWING FILES AND HAS NOT BEEN MODIFIED BESIDES SHADING FOR UNDERLAY PURPOSES.

5. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT.

6. THIS SURVEY WAS PREPARED WITHTHE BENEFIT OF A RECORD SURVEY PREPARED BY FLORIDA DESIGN CONSULTANTS, INC., TITLED "PASCO COUNTY LANDFILL CELL A-4", JOB NUMBER 2009-70, LAST REVISED 12/21/2009.

7. EXISTING GROUND ELEVATIONS AT THE POINT OF EXISTING GAS LINE AND PROPOSED FORCEMAIN INTERSECTIONS AT THE SOUTHEAST AND SOUTHWEST CORNER OF THE SITE WERE PROVIDED BY THE CONTRACTOR ON 4/28/2010.

LIMITATIONS:

1. USE OF THIS SURVEY BY ANYONE OTHER THAN THOSE PREPARED FOR/CERTIFIED TO WILL BE THE RE-USERS SOLE RISK WITHOUT LIABILITY TO THE SURVEYOR.

2. THERE MAY BE ADDITIONAL EASEMENTS AND/OR RESTRICTIONS AFFECTING THIS PROPERTY THAT MAY OR MAY NOT BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

3. PRINTED DIMENSIONS SHOWN ON THE SURVEY SUPERSEDE SCALED DIMENSIONS. THERE MAY BE ITEMS DRAWN OUT OF SCALE TO GRAPHICALLY SHOW THEIR LOCATION.

4. CALCULATED (C) GEOMETRY SHOWN HEREON WAS CALCULATED USING FIELD LOCATED POINTS AND CERTAIN PUBLISHED DATA.

5. SHOWN ANYWHERE ON THIS SURVEY, THE WORD "CERTIFY" IS UNDERSTOOD TO BE AN EXPRESSION OF A PROFESSIONAL OPINION BASED UPON THE SURVEYOR'S BEST KNOWLEDGE, INFORMATION AND BELIEF, AND THAT IT THUS CONSTITUTES NEITHER A GUARANTEE NOR A WARRANTY.

6. THE SHADED BACK INFORMATION SHOWN ON THE MAP OF SURVEY [SEE DATA SOURCE 4] IS FOR INFORMATIONAL PURPOSES ONLY AND WAS NOT MODIFIED FROM IT'S ORIGINAL FORMAT BESIDES SHADING THE INFORMATION FOR UNDERLAY PURPOSES. ALL FEATURES SURVEYED BY FLORIDA DESIGN CONSULTANTS, INC. ARE SHOWN AS SOLID TEXT, LINES AND SYMBOLS WHICH IS NOT SHADED BACK.

7. THIS SURVEYOR CERTIFIES ONLY TO THE RECORD INFORMATION SHOWN ON THE MAP OF SURVEY. ALL SHADED BACK IMPROVEMENTS ARE PER THAT CERTAIN ELECTRONIC DRAWING FILE REFERENCED IN DATA SOURCE 4, AND WERE NOT FIELD VERIFIED EXCEPT AS SHOWN ON THE MAP OF SURVEY.

8. THE LOCATIONS OF THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES WERE PERFORMED BY A FIELD SURVEY AND ONLY LOCATED AS SHOWN ON THE MAP OF THE SURVEY. ONLY THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES WHICH WERE VISIBLE FROM GROUND LEVEL TO THE SURVEYOR ON THE ACTUAL DAY OF THE FIELD SURVEY WERE LOCATED AND MAPPED. NO EXCAVATIONS OR SUBSURFACE WORK EFFORTS OF ANY KIND WERE PERFORMED BY THE SURVEYOR TO VERIFY THE EXISTENCE OF ANY UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES AND/OR THEIR APPURTENANCES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE GAS LINE SHOWN HEREON WAS LOCATED UTILIZING ABOVE GROUND GAS LINE MARKERS.

9. ALL BOUNDARY AND EASEMENT INFORMATION SHOWN HEREON IS SOLELY BASED UPON THOSE CERTAIN MAPS AND ELECTRONIC DRAWING FILES REFERENCED IN DATA SOURCE 4. FLORIDA DESIGN CONSULTANTS, INC. AND THE SURVEYOR AND MAPPER IN RESPONSIBLE CHARGE DOES NOT GUARANTEE THE VALIDITY OF SAID BOUNDARY INFORMATION OTHER THAN CONFORMATION TO SAID MAPS AND ELECTRONIC DRAWING FILES.

10. ORIGINAL FIELD WORK WAS COMPLETED ON 1/19/2010 AND IS CONTAINED IN FIELD BOOK 1526. FIELD WORK FOR REVISION 2 WAS COMPLETED ON 3/3/2010 AND IS CONTAINED IN FIELD BOOK 1526. FIELD WORK FOR REVISION 3 WAS COMPLETED ON 3/15/2010, IS CONTAINED IN FIELD BOOK 1526 AND IS LIMITED TO THE LINER EDGE AND PROPOSED FORCEMAIN LOCATION AS MARKED BY THE CONTRACTOR. FIELD WORK FOR REVISION 4 WAS COMPLETED ON 3/31/2010, IS CONTAINED IN FIELD BOOK 1526 AND IS LIMITED TO THE SPOT GRADES ON THE PROPOSED POND. FIELD WORK FOR REVISION 5 WAS COMPLETED ON 4/7/2010, IS CONTAINED IN FIELD BOOK 1526 AND IS LIMITED TO THE SPOT GRADES ON THE PROPOSED POND BEFORE THE LEACHATE SYSTEM WAS INSTALLED. FIELD WORK FOR REVISION 6 WAS COMPLETED ON 4/13/2010, IS CONTAINED IN FIELD BOOK 1526 AND IS LIMITED TO THE SPOT GRADES ON THE WEST 1/3 OF THE PROPOSED POND. FIELD WORK FOR REVISION 7 WAS COMPLETED ON 4/26/2010, IS CONTAINED IN FIELD BOOK 1526 AND IS LIMITED TO THE EXISTING 12" GAS LINE LOCATIONS AND DIMENSIONS TO THE PLAN FORCEMAIN FROM THE FIELD LOCATED EDGE OF PAVEMENT. REVISION 7 ALSO REMOVED THE PROPOSED FORCEMAIN LOCATION AS MARKED BY THE CONTRACTOR ADDED DURING REVISION 3. REVISION 8 IS LIMITED TO ADDING TIES TO THE GAS LINE AND EXISTING GROUND ELEVATION AT CROSSINGS (NO FIELD WORK PERFORMED). REVISION 9 IS LIMITED TO ADDING CROSSING DETAILS AT EAST AND WEST GAS LINE CROSSINGS (NO FIELD WORK PERFORMED). FIELD WORK FOR REVISION 10 COMMENCED ON 6/10/2010 AND WAS COMPLETED ON 7/8/2010, IS CONTAINED IN FIELD BOOK 1526 PAGES 70-73 AND IS LIMITED TO ADDING FORCEMAIN, LEACHATE DETECTION SYSTEM, LEACHATE COLLECTION SYSTEM LOCATIONS AND GROUND ELEVATIONS. FIELD WORK FOR REVISION 11 WAS PERFORMED ON 7/22/2010, IS CONTAINED IN FIELD BOOK 1526 PAGE 69 AND IS LIMITED TO ADDING LEACHATE SYSTEM AND STORM DRAIN PIPE LOCATIONS. FIELD WORK FOR REVISION 12 COMMENCED 8/26/2010 AND COMPLETED ON 10/19/2010, IS CONTAINED IN FIELD BOOK 1526 PAGES 68-61 AND IS LIMITED TO ADDING FORCEMAIN, WATER LINE, DRAINAGE STRUCTURES, LEACHATE SYSTEM, FINAL GROUND ELEVATIONS AND LIMITS OF SOD FIELD WORK FOR REVISION 13 WAS PERFORMED ON 10/21/2010 AND IS LIMITED TO ADDING LIMITS OF SOD AT THE NORTHEAST CORNER. FIELD WORK FOR REVISION 14 WAS PERFORMED ON 11/5/2010 AND IS LIMITED TO ADDING SOD AREAS, LEACHATE SYSTEM, PARKING AND STORM DRAIN PIPE LOCATIONS. REVISION 15 IS LIMITED TO ADDING COORDINATES ON THE MONITORING WELLS AT THE CLIENTS REQUEST (NO FIELD WORK PERFORMED). REVISION 16 IS LIMITED TO ADDING LATITUDE AND LONGITUDE ON THE MONITORING WELLS (NO FIELD WORK PERFORMED). FIELD WORK FOR REVISION 17 WAS PERFORMED ON 2/23/2011, IS CONTAINED IN FIELD BOOK 1526 AND IS LIMITED TO ADDING LEACHATE SYSTEM LOCATIONS AND BORE DATA AT THE STORAGE TANK SHOWN ON SHEET 3. REVISE MONITOR WELL INFORMATION FROM PLAN COORDINATES TO STATE PLANE COORDINATES NORTH AMERICAN DATUM 1983/1990 ADJUSTMENT FLORIDA WEST ZONE (902).

11. THERE WERE TWO CONTROL POINT #506's ACCORDING TO THE CONSTRUCTION PLANS REFERENCED IN DATA SOURCE 4 [SEE SHEET G-2 "EXISTING CONDITIONS, CONSTRUCTION LIMITS, AND MONITORING WELLS" OF SAID CONSTRUCTION PLANS FOR EXAMPLE]. THE EASTERN MOST CONTROL POINT LABELED AS CONTROL POINT #506 ON SAID CONSTRUCTION PLANS WAS RENUMBERED BY THIS SURVEYOR TO CONTROL POINT #507 FOR IDENTIFICATION PURPOSES ONLY.

12. FLORIDA DESIGN CONSULTANTS, INC. PERFORMED A LEVEL BENCH RUN FROM SITE TBM #1, THROUGH CONTROL POINTS #506 AND #507 (SEE LIMITATION #11), TO SITE TBM #2. IT WAS DISCOVERED THAT THE ELEVATION SHOWN ON THE CONSTRUCTION PLANS [SEE DATA SOURCE #4] FOR CONTROL POINT #506 IS NOT CONSISTENT WITH THE ELEVATIONS SHOWN FOR THE SITE BENCHMARKS UTILIZED AND CONTROL POINT #507. THE ELEVATION SHOWN FOR SAID CONTROL POINT #506 IS 51.59'. BASED ON MEASUREMENTS BY THIS SURVEYOR THE ELEVATION OF SAID CONTROL POINT #506, UTILIZING THE BENCHMARKS AS PROVIDED, IS 50.38'. [SEE ACCURACY #3]

13. THE LOCATION OF AS-BUILT UNDERGROUND UTILITY LINES SHOWN HEREON IS BASED ON INFORMATION PROVIDED BY THE CONTRACTOR AND FIELD SURVEY EFFORTS. AS NOTED ABOVE, THE UTILITY CONTRACTOR MARKED CONSTRUCTED UNDERGROUND UTILITY LINES WITH EITHER A P.V.C. STANDPIPE OR WOOD STAND WITH A DIMENSION MARKED TO THE TOP OF PIPE IN ORDER FOR THE SURVEYOR TO OBTAIN A HORIZONTAL AND VERTICAL LOCATION ON TOP OF THE CONSTRUCTED UTILITY LINE. THE PIPELINE WAS BACK FILLED PRIOR TO THE RECORD SURVEY EFFORT WITH NO VISIBLE EVIDENCE TO SUPPORT THE ACTUAL PIPELINE LOCATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE STANDPIPE OR WOOD STAND PLACED BY THE CONTRACTOR WAS INSTALLED ACCURATELY ON TOP OF THE PIPE. THE UNDERSIGNED SURVEYOR MAKES NO GUARANTEE AS TO THE ACTUAL LOCATION OF ANY UNDERGROUND UTILITY LINES. TO AVOID DAMAGE TO EXISTING FACILITIES THE LOCATION OF EXISTING PIPELINES MUST BE VERIFIED PRIOR TO ANY EXCAVATION OR UNDERGROUND CONSTRUCTION ACTIVITIES BY USING GOOD CONSTRUCTION PRACTICES AND CONTACTING SUNSHINE STATE ONE CALL IN ACCORDANCE WITH FLORIDA STATUTES 553.851(1979).

BOUNDARY INCONSISTENCIES:

NOT APPLICABLE. THIS IS NOT A BOUNDARY SURVEY.

APPARENT PHYSICAL USE:

THE SUBJECT PROPERTY IS PART OF A SOLID WASTE LANDFILL, IS UNDER CONSTRUCTION AND CONTAINS IMPROVEMENTS NOT SHOWN ON THE MAP OF SURVEY.

EASEMENTS/RIGHT-OF-WAY:

NOT APPLICABLE. THIS IS NOT A BOUNDARY SURVEY.

PREPARED FOR:

RIPA & ASSOCIATES, INC.

CERTIFIED TO:

RIPA & ASSOCIATES, INC.

SURVEYOR AND MAPPER IN RESPONSIBLE CHARGE:

DENNIS BOGGS
PROFESSIONAL SURVEYOR AND MAPPER
LICENSE NUMBER LS 6069
STATE OF FLORIDA

ABBREVIATIONS LEGEND

AC	= Acres	FN&TT	= Found Nail and Tin Tab	ℙ	= Property Line
A/C	= Air Conditioner	FOP	= Found Open End Iron Pipe	PLS	= Professional Land Surveyor
ADW	= Asphalt Driveway	FPB	= Electric Power Box	POB	= Point of Beginning
ADS	= Advance Drainage Systems	FPC	= Electric Power Company	POC	= Point of Commencement
ASPH	= Asphalt	FPP	= Found Pinched Iron Pipe	POL	= Point on Line
B/C	= Back of Curb	FRRS	= Found Railroad Spike	PRM	= Permanent Reference Monument
BCCM	= Board of County Commissioners Minutes Book	FT	= Feet	PSM	= Professional Surveyor and Mapper
BFPD	= Back Flow Prevention Device	F/T	= Fence Tie	PT	= Point of Tangency \ Point
BLDG	= Building	FXC	= Found X-cut	PVC	= Polyvinyl Chloride Pipe
BNDY	= Boundary	G/A	= Guy Wire Anchor	(R)	= Recorded Data
BO	= Blow Off Valve	GE	= Grate Elevation	RCP	= Reinforced Concrete Pipe
(C)	= Calculated Data	GI	= Grate Inlet	RLS	= Registered Land Surveyor
C/C	= Covered Concrete	GV	= Gas Valve	RNG	= Range
CCCL	= Coastal Construction Control Line	IE	= Invert Elevation	R/W	= Right of Way
CCR	= Certified Corner Record	INV	= Invert	S	= South
CDW	= Concrete Driveway	LB	= Corporate Certification Number	(S)	= Survey Data (See Data Source 5)
CI	= Curb Inlet	LCS	= Leachate Collection System	SCM	= Set Concrete Monument, 4"x4", PRM LB 6707
℄	= Center Line	LDS	= Leachate Detection System	SCM(W)	= Set Concrete Monument, 4"x4", FDC LB 6707 WITNESS PT
CLF	= Chain Link Fence	LF	= Linear Feet	SEC	= Section
CM	= Concrete Monument	LP	= Light Pole	SHW	= Seasonal High Water Elevation
CMP	= Corrugated Metal Pipe	LS	= Licensed Surveyor	SIR	= Set 5/8"Iron Rod and Cap, FDC LB 6707
CO	= Clean out	MAS	= Masonry	SIR(W)	= Set 5/8"Iron Rod and Cap, FDC LB 6707 WITNESS PT
CONC	= Concrete	MES	= Mitered End Section	SMH	= Sanitary Manhole
COR	= Corner	MH	= Manhole	SN&D	= Set Nail and Disk, FDC LB 6707
CPB	= Condo Plat Book	MHW	= Mean High Water	SN&D(W)	= Set Nail and Disk, FDC LB 6707 WITNESS PT
C/S	= Concrete Slab	MOQ	= More or Less	SQ	= Square
C/T	= Curb Tie	N	= North	SR	= State Road
DB	= Deed Book	N/C	= No Cap	STY	= Story
DCVA	= Double Check Valve Assembly	N/F	= Not Found	SWFWMD	= Southwest Florida Water Management District
DNR	= Department of Natural Resources	N/S	= Not Set	S/W	= Sidewalk
DEPT	= Department	N/A	= Not Accessible/Not Complete	TBM	= Temporary Benchmark
DIA	= Diameter	NAD	= North American Datum	TBO	= Temporary Blow-off
DIP	= Ductile Iron Pipe	NAVD	= North American Vertical Datum	TOB	= Top of Bank
DMH	= Drainage Manhole	NGS	= National Geodetic Survey	TRAV	= Traverse
E	= East	NGVD	= National Geodetic Vertical Datum	(TYP)	= Typical
ECMP	= Elliptical Corrugated Metal Pipe	NP	= Normal Pool Elevation	TWP	= Township
EL	= Elevation	(NR)	= Non Radial	U/P	= Utility Pole
EOW	= Edge of Water	O/A	= Overall	VCP	= Vitrified Clay Pipe
E/P	= Edge of Pavement	OHW	= Overhead Wire	W	= West
EOP	= End of Pipe	ORB	= Official Record Book	W	= With
ESMT	= Easement	(PA)	= Property Appraisers Map Data	W/F	= Wood Fence
(F)	= Field Data	PB	= Plat Book	WL	= Water Line
FCM	= Found Concrete Monument	PC	= Point of Curvature	WUP	= Wood Utility Pole
FDOT	= Florida Department of Transportation	PCED	= Pinellas County Engineering Department	W/T	= Wall Tie
FH	= Fire Hydrant	PACED	= Pasco County Engineering Department	WV	= Water Valve
FIR	= Found Iron Rod and Cap	PCSD	= Pinellas County Survey Department	xx'	= Degrees
FL	= Fire Line	PACSD	= Pasco County Survey Department	xx'	= Minutes (Bearings)
FND	= Found	PCP	= Permanent Control Point	xx"	= Seconds (Bearing)
FN&D	= Found Nail and Disk	PG(S)	= Pages	xx'	= Feet (Distances)
FFE	= Finished Floor Elevation	PI	= Point of Intersection		
		PID	= Permanent Identification Number		

Linetype Legend

---	= Boundary Line
---	= Center Line
---	= Easement Line
---	= Edge of Water
---	= Jurisdictional Line
---	= Right-Of-Way Line
---	= Section Line
---	= Top Bank or Top of Berm
---	= Toe of Slope or Grade Break
---	= Gas Line (See Limitation 8)
---	= Proposed Foremain
---	= Foremain
---	= Storm Sewer Line (See Limitation 12)

DOCUMENT LEGEND

(C)	= CALCULATED DATA
(F)	= FIELD DATA
(P)	= PLAN DATA (SEE DATA SOURCE 4)

SYMBOLS LEGEND

+	= Aerial Target	⊙	= Metal Post
⊕	= Bench Mark	⊙	= Monitoring Well
⊕	= Cable TV Point Stripe	⊙	= Parking Meter
⊕	= Cable TV Box	⊕	= Reclaimed Water Point Stripe
⊕	= Communications Manhole	⊕	= Reclaimed Water Box
⊕	= Concrete Light Pole	⊕	= Sanitary Foremain Valve
⊕	= Concrete Post	⊕	= Sanitary Sewer Manhole
⊕	= Concrete Utility Pole	⊕	= Sanitary Cleanout/Drainage Cleanout
⊕	= Drainage Manhole	⊕	= Sanitary Sewer Point Stripe
⊕	= Electric Box	⊕	= Section Corner
⊕	= Electric Manhole	⊕	= Siamese Connection
⊕	= Electric Power Point Stripe	⊕	= Sign
⊕	= Electric Power Pedestal	⊕	= Sprinkler Control Box
⊕	= Fire Hydrant	⊕	= Sprinkler Head
⊕	= Flag Pole	⊕	= Storm Water Point Stripe
⊕	= Gas Line Marker	⊕	= Traffic Signal Box
⊕	= Gas Filler Cap	⊕	= Traffic Signal Pole
⊕	= Gas Valve	⊕	= Verizon Point Stripe
⊕	= Gas Meter Box	⊕	= Water Line Point Stripe
⊕	= Gas Line Paint Stripe	⊕	= Water Meter
⊕	= Grate Inlet	⊕	= Water Valve
⊕	= Telephone Manhole	⊕	= Wood Utility Pole
⊕	= Telephone Pedestal	⊕	= Wood Light Pole
⊕	= Telephone Marker	⊕	= Wood Post
⊕	= Guy Anchor	⊕	= Per Plan
⊕	= Light Pole	⊕	
⊕	= Mail Box	⊕	
⊕	= Water Service (one whip)	⊕	
⊕	= Water Service (two whips)	⊕	

THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER

DRAWN	 FLORIDA DESIGN CONSULTANTS, INC. ENGINEERS, ENVIRONMENTALISTS, SURVEYORS & PLANNERS 3030 Starkey Blvd. New Port Richey FL 34655 Tel: (727) 849-7588 - Fax: (727) 848-3648 Certificate of Authorization: LB 6707 State of Florida	SUBJECT:	SHEET DESCRIPTION:				18 4-19-2011 REVISE LATITUDE AND LONGITUDE ON MONITOR WELLS (NO FIELD WORK PERFORMED) DB DB SHEET INDEX: 1. SURVEYOR'S REPORT				JOB NUMBER: 2009-70 EPL: N/A	SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.  PROFESSIONAL SURVEYOR AND MAPPER LICENSE NUMBER LS 6069 STATE OF FLORIDA	SHEET 1 OF 5
CHECKED		PASCO COUNTY LANDFILL	17 3-1-2011 ADD LEACHATE SYSTEM BORE LOCATION LCS DB 2-3. MAP OF SURVEY - UTILITIES				PROJECT DATA BASE: 2009-70-CON	FIELD BOOK NUMBER & PAGES: SEE LIMITATIONS 10					
DESIGNED			16 2-18-2011 ADD LATITUDE AND LONGITUDE ON MONITORING WELLS (NO FIELD WORK PERFORMED) DB DB 4. MAP OF SURVEY - CELL ELEVATIONS				LAST DATE OF ORIGINAL FIELD WORK: SEE LIMITATIONS 10						
QUALITY CONTROL			15 11-11-2010 ADD LEACHATE SYSTEM ELEVATION LCS DB 5. MAP OF SURVEY - MONITOR WELLS										
DB			14 11-8-2010 ADD SOD AREAS, LEACHATE SYSTEM, PARKING AND STORM DRAIN PIPE LOCATIONS LCS DB ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED.						SCALE: NONE				
		NO.	DATE	REVISIONS		BY	QUALITY CONTROL						



CONTROL POINTS			
POINT #	NORTHING	EASTING	ELEVATION
100	1,467,688.18(F)	318,274.28(F)	50.11(F)
101	1,468,432.41(F)	318,221.34(F)	44.13(F)
102	1,468,595.19(F)	319,662.75(F)	64.77(F)
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CONTROL POINT #506 OF 50.38' (SEE
LIMITATION 12 FOR MORE INFORMATION)

DRAWN

JEB

CHECKED

JEB

QUALITY CONTROL

DB

FLORIDA DESIGN CONSULTANTS, INC.
ENGINEERS, ENVIRONMENTALISTS, SURVEYORS & PLANNERS
3030 Starkey Blvd. New Port Richey FL 34655
Tel. (727) 849-7588 - Fax. (727) 848-3648
Certificate of Authorization: LB 6707
State of Florida

SUBJECT:
PASCO COUNTY LANDFILL

SHEET DESCRIPTION:
RECORD SURVEY
MONITOR WELLS

NO.	DATE	REVISIONS
18	4-19-2011	REVISE LATITUDE AND LONGITUDE ON MONITOR WELLS (NO FIELD WORK PERFORMED)
17	3-1-2011	ADD LEACHATE SYSTEM BORE LOCATION
16	2-18-2011	ADD LATITUDE AND LONGITUDE ON MONITORING WELLS (NO FIELD WORK PERFORMED)
15	11-11-2010	ADD LEACHATE SYSTEM ELEVATION
14	11-8-2010	ADD SOD AREAS, LEACHATE SYSTEM, PARKING AND STORM DRAIN PIPE LOCATIONS
1-13	VARIOUS	SEE LIMITATIONS 10

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1-13	VARIOUS	SEE LIMITATIONS 10

THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER

1. SURVEYOR'S REPORT

2-3. MAP OF SURVEY - UTILITIES

4. MAP OF SURVEY - CELL ELEVATIONS

5. MAP OF SURVEY - MONITOR WELLS

ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED.

JOB NUMBER:
2009-70

EPN:
N/A

PROJECT DATA BASE:
2009-70-CO

FIELD BOOK NUMBER & PAGES:
SEE LIMITATIONS 10

LAST DATE OF ORIGINAL FIELD WORK:
SEE LIMITATIONS 10

SCALE:
1" = 60'

SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

DENNIS BOGGS

PROFESSIONAL SURVEYOR AND MAPPER

LICENSE NUMBER LS 6069

STATE OF FLORIDA

SHEET

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OF

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