

PROJECT INFORMATION

OWNER: FRIENDS RECYCLING, LLC  
2350 N.W. 27th Avenue. Ocala, FL  
(352) 622-5800

ENGINEER: Guerra Development Corp.,  
Juan C. Guerra, P.E.  
2817 N.E. 3rd Street  
Ocala, FL 34470  
(352) 629-8060

CONTRACTOR: N/A

GENERAL PURPOSE: Industrial - Landfill

ZONING: Site: M-1 (cells) Adjacent: North: R-1 West: R-1  
R-1 (DRA) East: ROAD South: M-1

LAND USE: Existing: Light Industrial  
Proposed: Light Industrial

PARCEL ACCOUNT #: 21645-000-24

WATER: Water Usage:  
Potable water = 700 GPD  
Irrigation = 2100 GPD (by 4" well)  
Total Flow = 2800 GPD (ESTIMATED)

SANITARY SEWER: Total Sanitary Flow = 630 GPD (ESTIMATED)

STORM DRAINAGE: Dry retention sized for 100-yr 24-hr event

ELECTRIC SERVICE: On-site along SW 27th Ave.

TRAFFIC ACCESS: As shown on plans, off N.W. 27th Avenue

GARBAGE COLLECTION: Dumpster provided on site.

SEDIMENTATION/EROSION: Erosion to be controlled by collection ditches once cells are elevated above original ground surface.

FLOOD DATA: This site is not located in a flood zone per F.I.R.M. maps.

OPEN SPACE DATA: This data applies to the closure stage of the project:

	Area (Sq. Ft.)	%
DRA	306,006	16.65%
Cells	914,760	49.78%
Impervious	15,500	0.84%
Open	601,480	32.73%
Total Site:	1,837,746	100.0%

INDEX OF SHEETS

- TITLE
  - CELL LAYOUT
  - CLOSURE & GRADING PLAN
  - D.R.A. & DETAILS
  - SITE PREPARATION
  - WELLS MAP
  - AREA BREAKDOWN MAP
- BOUNDARY SURVEY (BY ROGERS ENGINEERING)
- TOPO SURVEY (BY ROGERS ENGINEERING)

SITE DEVELOPMENT PLAN

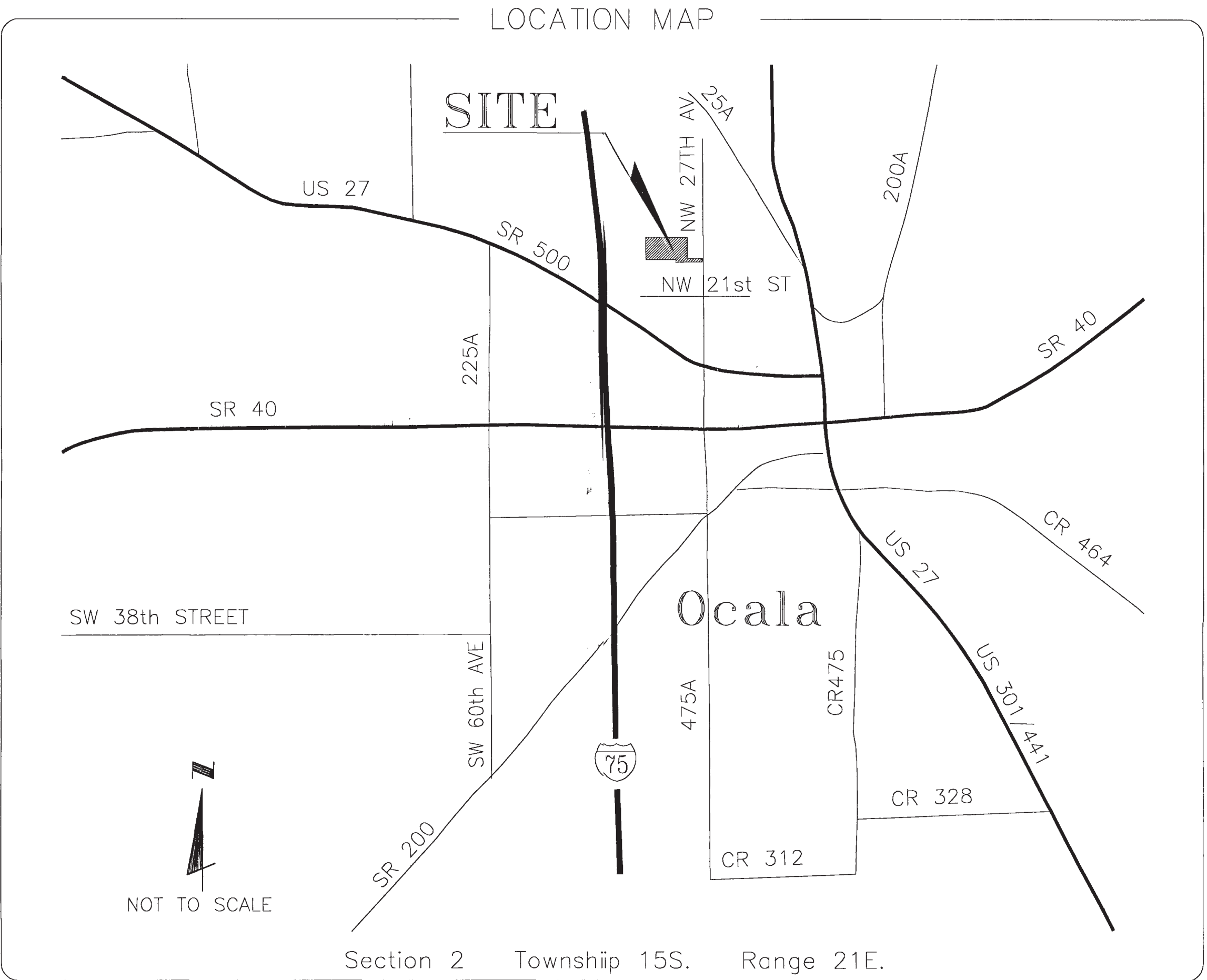
# FRIENDS RECYCLING, LLC

## CONSTRUCTION & DEMOLITION DEBRIS LANDFILL

City of Ocala, Florida

28 January 2013

G.D.C. Project No. 12-03



GENERAL NOTES



- This set of plans is not to be used for any purpose unless ALL sheets listed in the index are included in the set, securely bound and each sheet properly certified.
- All construction covered by these plans must conform with the latest material and procedures requirements and quality control standards contained in the latest City of Ocala Land Development Regulations.
- ANY deviation from these plans requires prior written approval from the professional engineer of record and, if applicable, from the City of Ocala.
- The general contractor for the project is hereby required, as part of the contract, to review each sheet of the set and study their correlation prior to bidding & construction. Contractor must immediately notify the engineer of any discrepancies found on the plans.
- General Contractor is hereby required to implement site safety at all times per OSHA.
- The general contractor is hereby required to contact ALL pertinent utility companies, field verify the location, both horizontal and vertical, of the utilities within the project boundary shown on the plans prior to starting construction.
  - ELECTRIC (CITY OF OCALA) (352) 351-6620
  - UNITED TELEPHONE (352) 368-8776
  - CDX CABLE (352) 854-3333
  - A. T. & T. (800) 241-3624
  - WATER AND SEWER (CITY OF OCALA) (352) 629-8521
  - PEOPLE'S GAS (TECO) (352) 622-0112
- All sign and markings material shall conform to the Manual of Uniform Traffic Control Devices and Safe Practices for Street and Highways and Utility Operations.
- Open
- A three (3) foot separation shall be maintained between limerock and DRA bottom areas. Soil borings shall be utilized to determine general soil conditions. If limerock is encountered, contractor must undercut to meet this requirement.
- The general contractor is hereby required to install and maintain the erosion/sedimentation control barrier prior to starting earthwork and during construction as per DOT Index 102. (See Grading and Drainage Plan for minimum barrier location) (See watershed boundaries detail on sheet 6 of 12 for minimum barrier locations.)
- All sanitary sewer construction up to and including service connection shall conform to the City of Ocala's Water and Sewer Construction Manual, June 20, 2007 or latest edition.
- All conduit installed under pavement must be encased in concrete.

OWNER'S CERTIFICATION

I hereby certify that I have reviewed these plans with the improvements called for and find them acceptable for the purpose of their intended use. I hereby certify that I and my successors and assigns shall perpetually maintain the improvements as shown hereon. All construction covered by these plans shall comply with the material requirements and quality control standards as set forth by current and applicable regulations from the pertinent regulatory agencies/municipality having jurisdiction over this project.

ENGINEER'S CERTIFICATION

I hereby certify that the drainage facilities specified hereon were designed in accordance with applicable requirements from the City of Ocala, Florida, and that adjacent properties will be protected from stormwater damage as a result of the proposed development, and that I shall submit a plan to the water management district and D.E.P. for permitting, if applicable.

Guerra Development Corp.  
Consulting Engineering

GDC

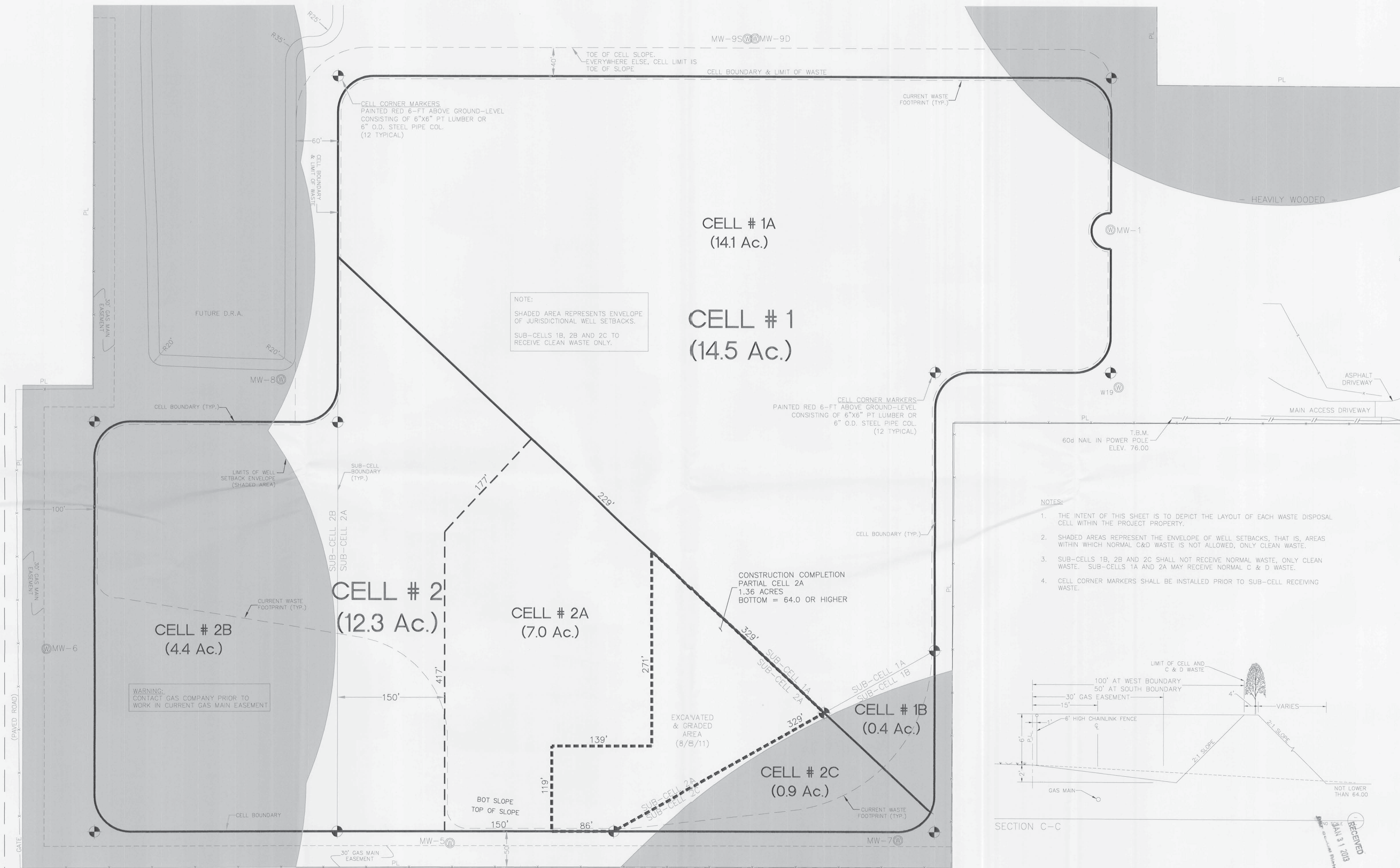
2817 N.E. 3rd Street, Ocala, FL 34470  
Ph: 352-629-8060  
email: guerracorp@att.net

*Gerald Laureano*  
FRIENDS RECYCLING, LLC  
Gerald Laureano, Operation Manager

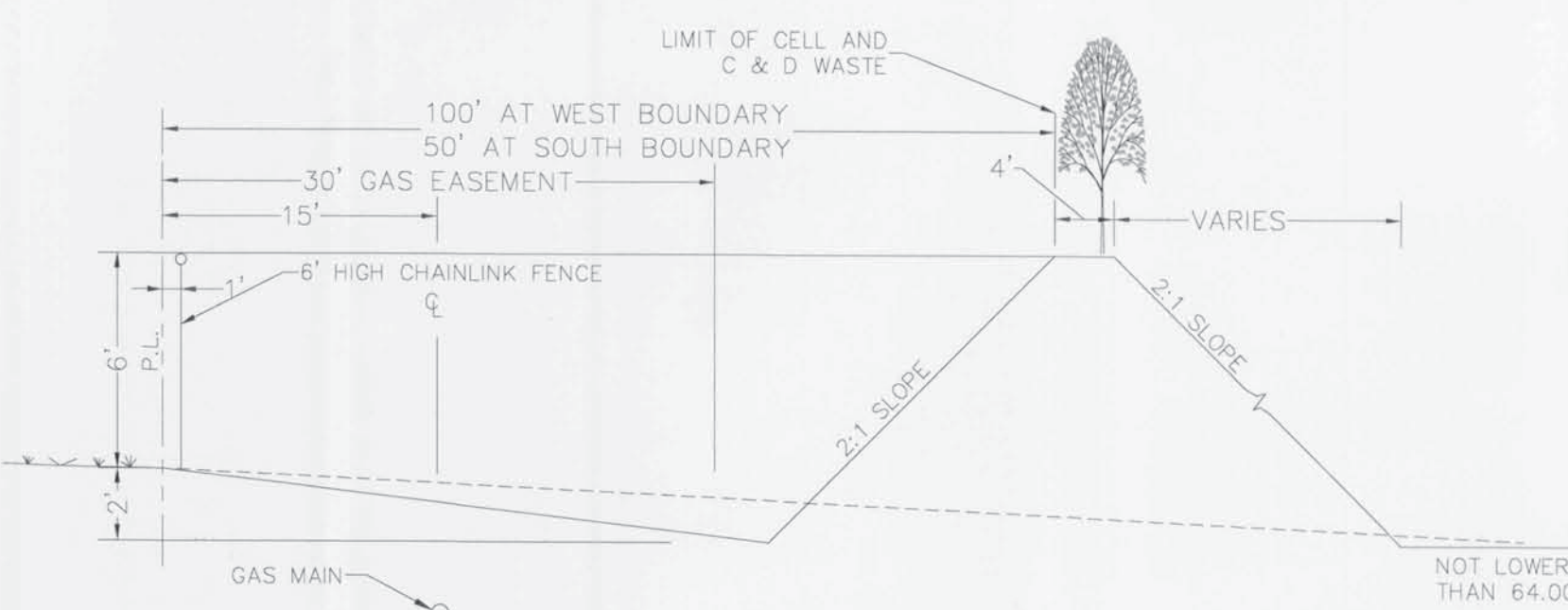
RECEIVED  
JAN 31 2013  
MR. General District


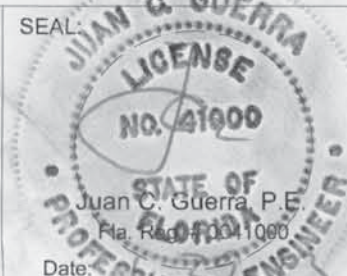

*Juan C. Guerra*  
Juan C. Guerra, P.E.  
Professional Engineer  
State of Florida  
No. 10041000  
Exp. 12/31/15



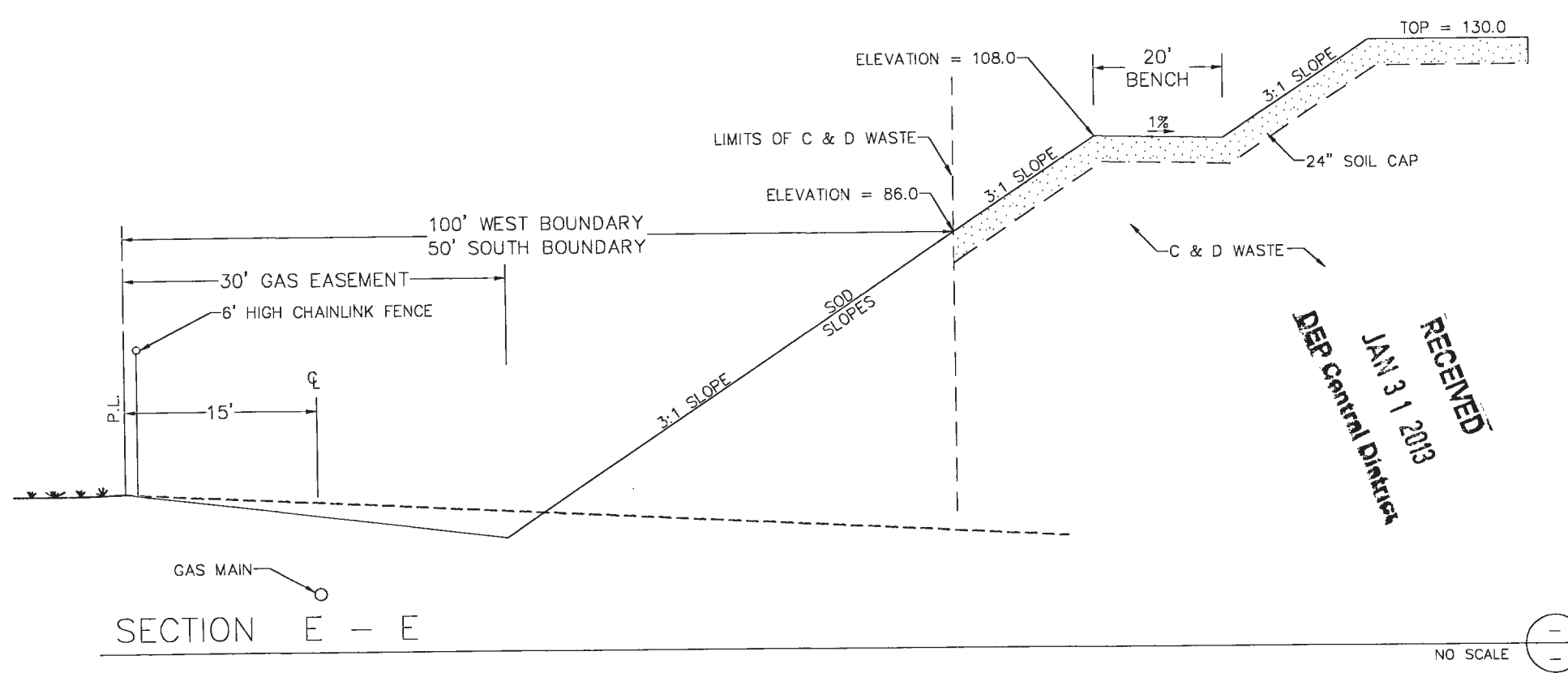
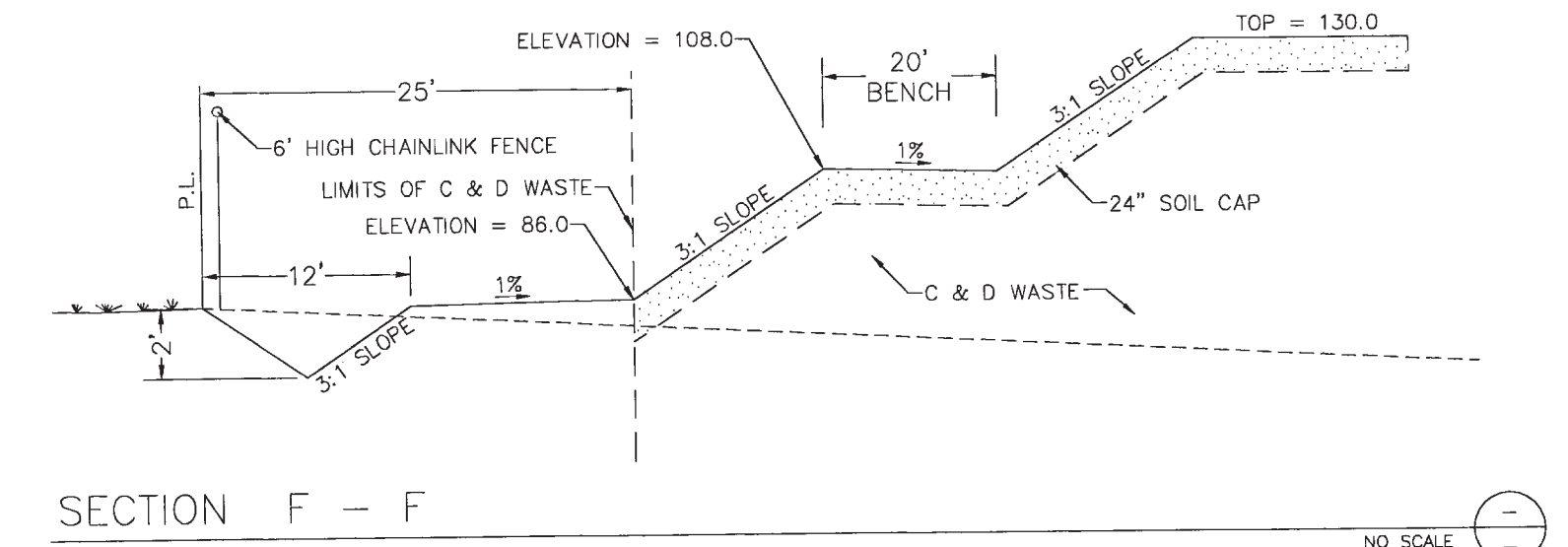
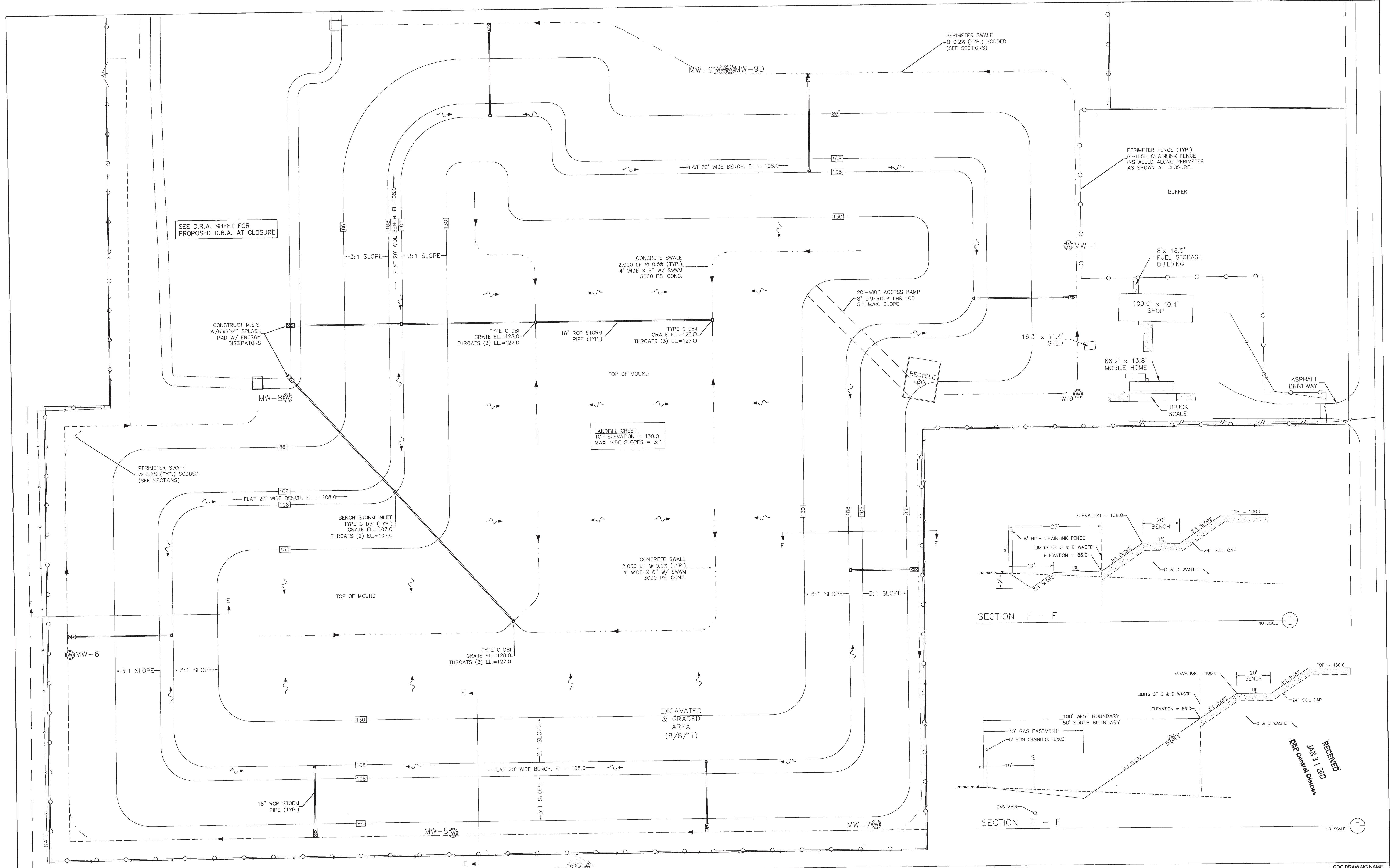





- NOTES:
1. THE INTENT OF THIS SHEET IS TO DEPICT THE LAYOUT OF EACH WASTE DISPOSAL CELL WITHIN THE PROJECT PROPERTY.
  2. SHADED AREAS REPRESENT THE ENVELOPE OF WELL SETBACKS, THAT IS, AREAS WITHIN WHICH NORMAL C&D WASTE IS NOT ALLOWED, ONLY CLEAN WASTE.
  3. SUB-CELLS 1B, 2B AND 2C SHALL NOT RECEIVE NORMAL WASTE, ONLY CLEAN WASTE. SUB-CELLS 1A AND 2A MAY RECEIVE NORMAL C & D WASTE.
  4. CELL CORNER MARKERS SHALL BE INSTALLED PRIOR TO SUB-CELL RECEIVING WASTE.



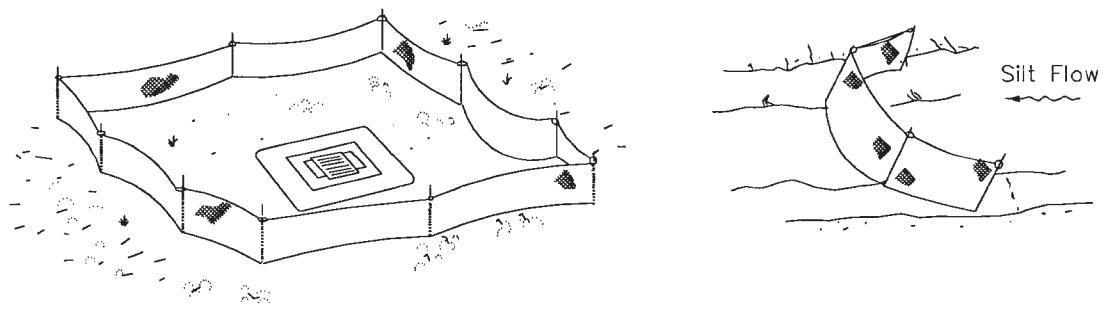
REVISIONS			Names	Date	ENGINEER OF RECORD:  Guerra Development Corp. Consulting Engineering 2817 NE 3rd St. Ocala, Florida 34470 (352) 629-8060 Phone guerracorp@att.net State of Florida Certificate of Authorization #4954		NORTH 	CLIENT: FRIENDS RECYCLING, LLC	SHEET TITLE: CELL LAYOUT			GDC DRAWING NAME 12-03_PLAN	
Date	By	Description	Drawn By	AMM					PROJECT NAME: FRIENDS RECYCLING RENEWAL			JOB NO. 12-03	SHEET NO. 2 of 7
			Checked By	JCG									
			Designed By	JCG									
			Checked By	JCG									
			Approved By	JCG									





REVISIONS			Names		Date	ENGINEER OF RECORD:		Guerra Development Corp. Consulting Engineering		SEAL:		NORTH		CLIENT:		FRIENDS RECYCLING, LLC		SHEET TITLE:		CLOSURE & GRADING PLAN		GDC DRAWING NAME	
Date	By	Description	Drawn By	AMM	28 JAN 13			2817 NE 3rd St. Ocala, Florida 34470 (352) 629-8060 Phone guerracorp@aatt.net State of Florida Certificate of Authorization #4954										PROJECT NAME:		JOB NO:		SHEET NO.	
			Checked By	JCG						HORIZ. SCALE: 1" = 60' VERT. SCALE: 1" = 120'								FRIENDS RECYCLING RENEWAL		12-03		3 of 7	
			Designed By	JCG																			
			Checked By	JCG																			
			Approved By	JCG																			





Type III Silt Fence Protection Around Ditch Bottom Inlets.

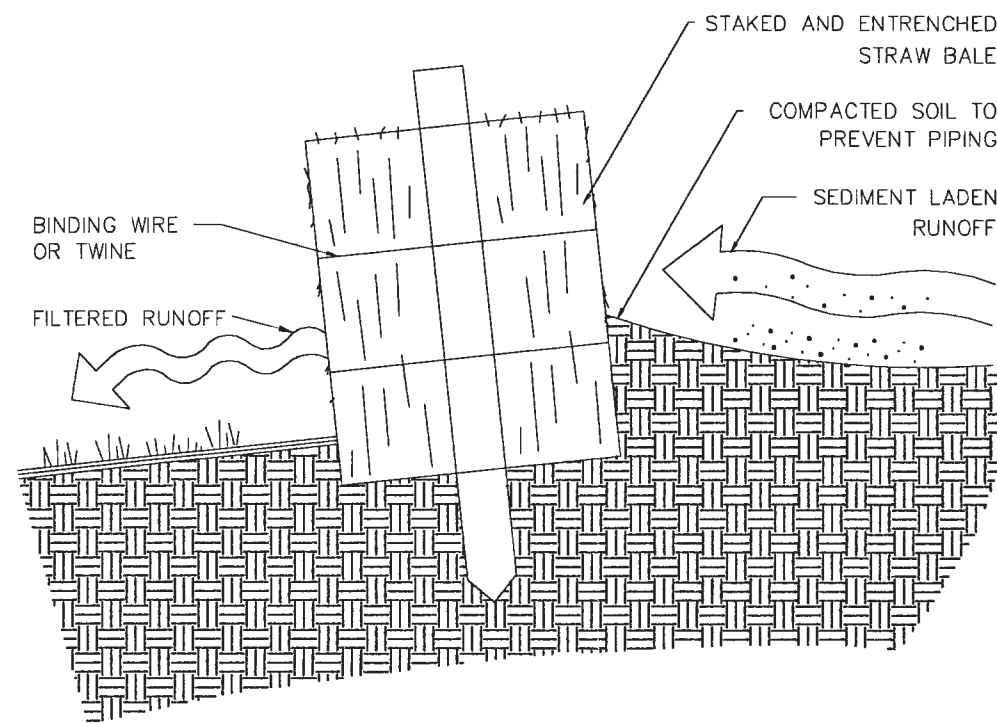
Note: Spacing for Type III Fence to be in accordance with Chart 1, Sheet 1 of 3 and ditch installations at drainage structures Sheet 2 of 3.

Type III Silt Fence

Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

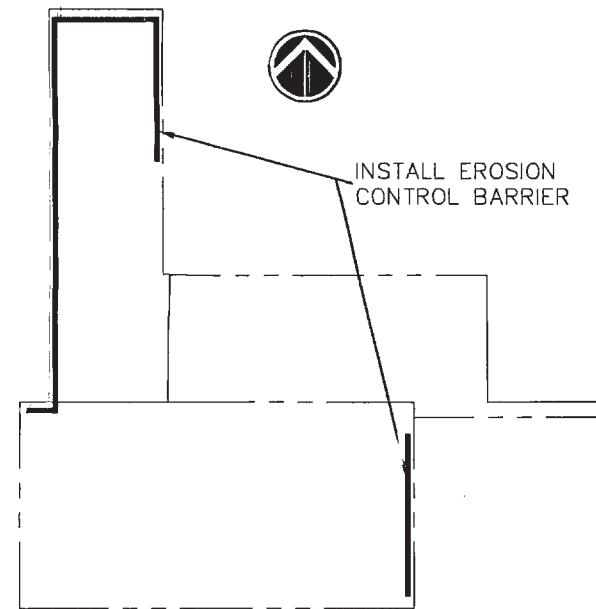
SILT FENCE - FDOT INDEX # 102

NO SCALE



EROSION BARRIER - STRAW BALE

NO SCALE



EROSION CONTROL PLAN

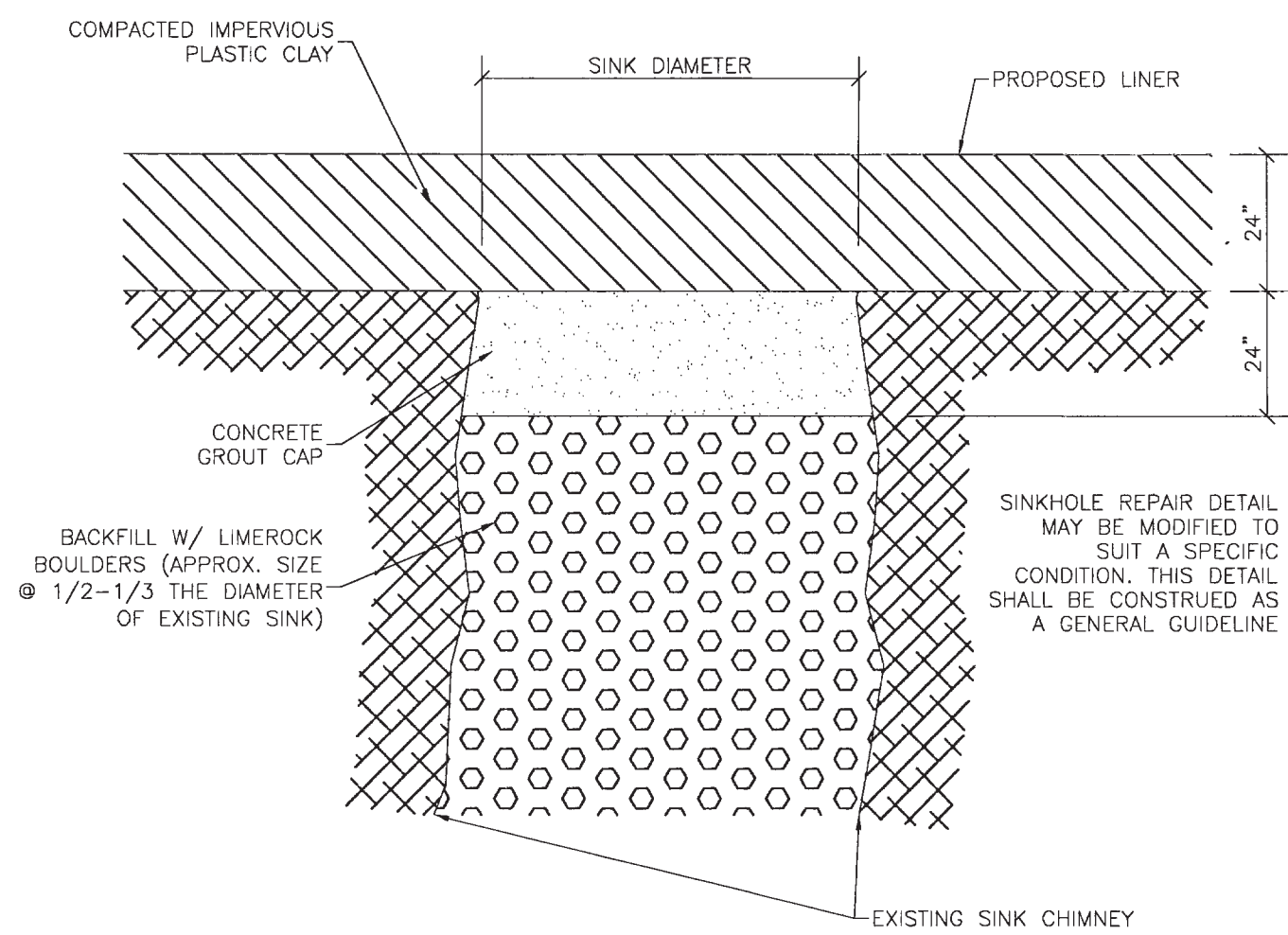
NO SCALE

#### NOTES:

1. THE GENERAL CONTRACTOR FOR THE PROJECT IS HEREBY MADE RESPONSIBLE FOR IMPLEMENTATION OF THESE EROSION AND SEDIMENTATION CONTROL MEASURES, AS WELL AS THOSE DESCRIBED IN THE "ENGINEER REPORT ON STORMWATER MANAGEMENT", AND THE PERMIT CONDITIONS FROM THE WATER MANAGEMENT DISTRICT.
2. SILT FENCES SHALL BE INSTALLED DOWNSTREAM FROM ALL DRA AND OTHER CONSTRUCTION AREAS AS TO PREVENT SILTATION FROM OCCURRING OFFSITE UNLESS DITCHES PREVENT OFFSITE RUNOFF.
3. STORM DRAINAGE SYSTEM, INCLUDING DRAs SHALL BE CONSTRUCTED DURING THE INITIAL PHASE OF THE PROJECT AND IN A DOWNSTREAM - TO - UPSTREAM SEQUENCE.
4. STORM INLET AND PIPES SHALL BE PROTECTED FROM EXCESSIVE SILTATION WITH SAND BAGS AND/OR STRAW BAILS.
5. DRAs SHALL BE EXCAVATED AND SODDED IMMEDIATELY AFTER FINISH GRADE. ALL OTHER DISTURBED AREAS NOT TO BE SODDED SHALL BE SEEDDED. THE PLANS SHOW EXTENT OF SODDING AT ROADWAYS AND DRAs.
6. ALL COMPONENTS OF THE STORM WATER CONVEYANCE SYSTEM, INCLUDING INLETS, PIPES, SPILLWAYS, DITCHES, ETC., SHALL BE FLUSHED AND/OR CLEANED TO HAVE ALL SILTS AND DEBRIS REMOVED PRIOR TO PROJECT COMPLETION.
7. TEMPORARY DITCH BLOCKS MADE OF STRAW BAILS SHALL BE INSTALLED AT DITCHES AND SWALES DURING CONSTRUCTION. TEMPORARY DITCH BLOCKS SHALL BE SPACED AT 300 FEET (MAX.).
8. ROUGH GRADING FOR DRAs SHALL BE MADE TO SIX (6) INCHES ABOVE THE DESIGN DRA BOTTOM ELEVATION. THE FINAL SIX (6) INCHES SHALL BE EXCAVATED DURING FINISH GRADING IMMEDIATELY PRIOR TO PROJECT COMPLETION.

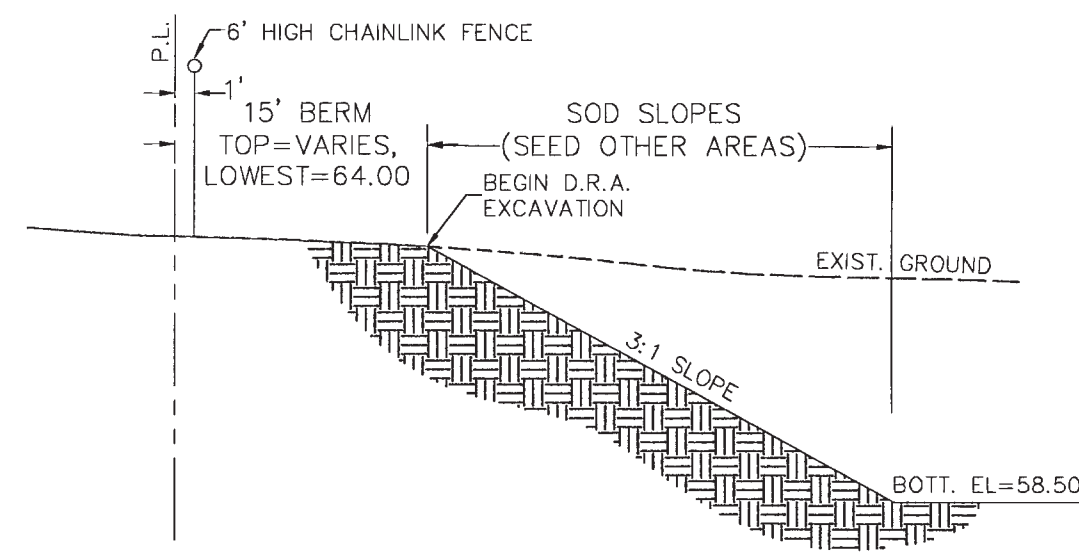
EROSION AND SEDIMENTATION CONTROL

NO SCALE



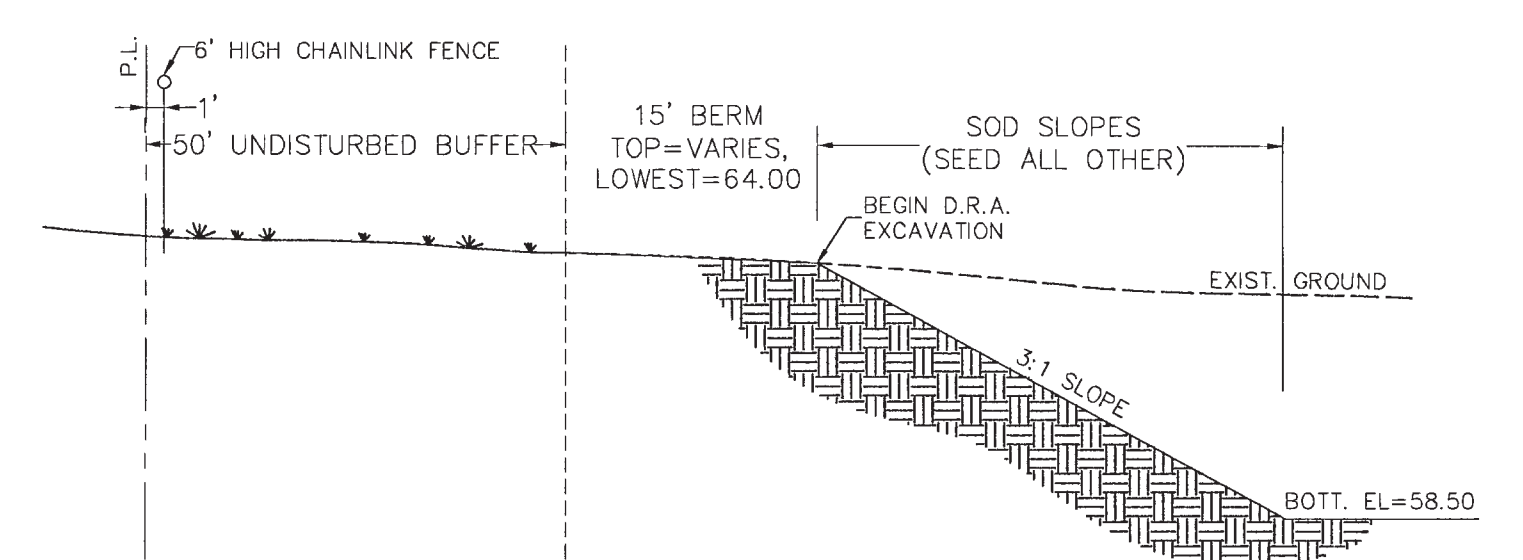
SINKHOLE CHIMNEY REPAIR DETAIL

NO SCALE



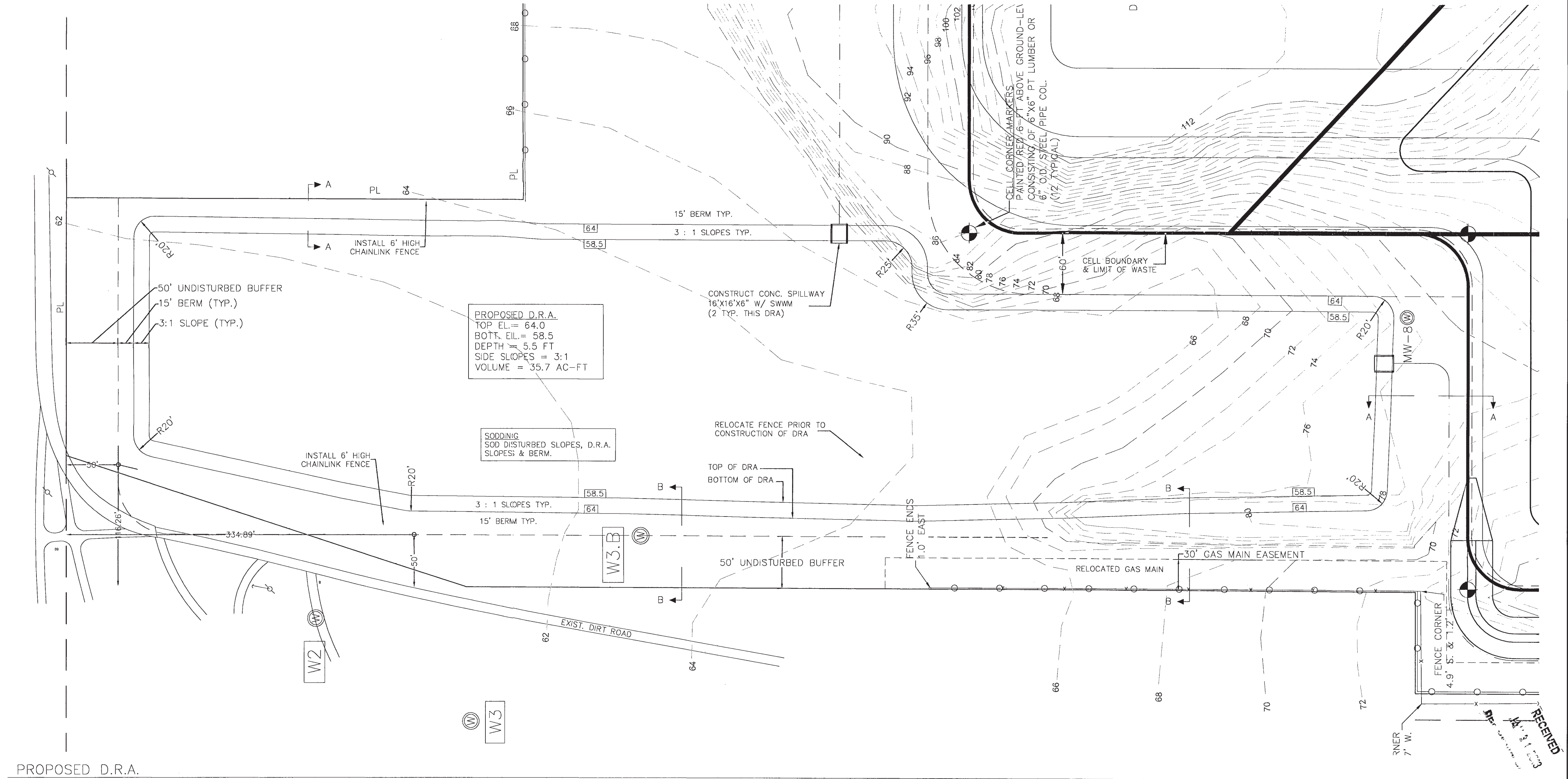
SECTION A-A

NO SCALE



SECTION B-B

NO SCALE

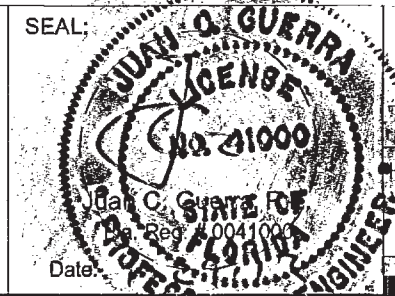


PROPOSED D.R.A.

ENGINEER OF RECORD:



**Guerra Development Corp.**  
Consulting Engineering  
2817 NE 3rd St. Ocala, Florida 34470  
(352) 629-8060 Phone  
guerracorp@aol.net  
State of Florida Certificate of Authorization #4954



HORIZ. SCALE: 1" = 60'  
VERT. SCALE: 1" = 10'  
0 30' 60' 120'



CLIENT:

FRIENDS RECYCLING, LLC

SHEET TITLE:

D.R.A. & DETAILS

PROJECT NAME:

FRIENDS RECYCLING RENEWAL

JOB NO:

12-03

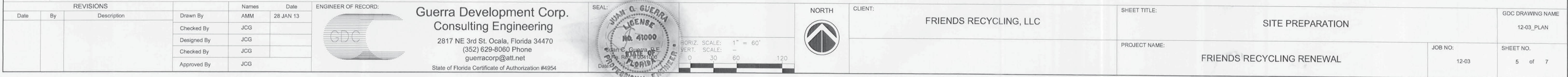
GDC DRAWING NAME

12-03\_PLAN

SHEET NO.

4 of 7

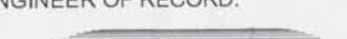
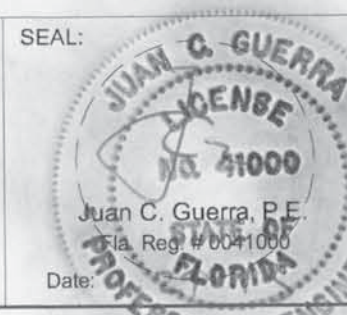





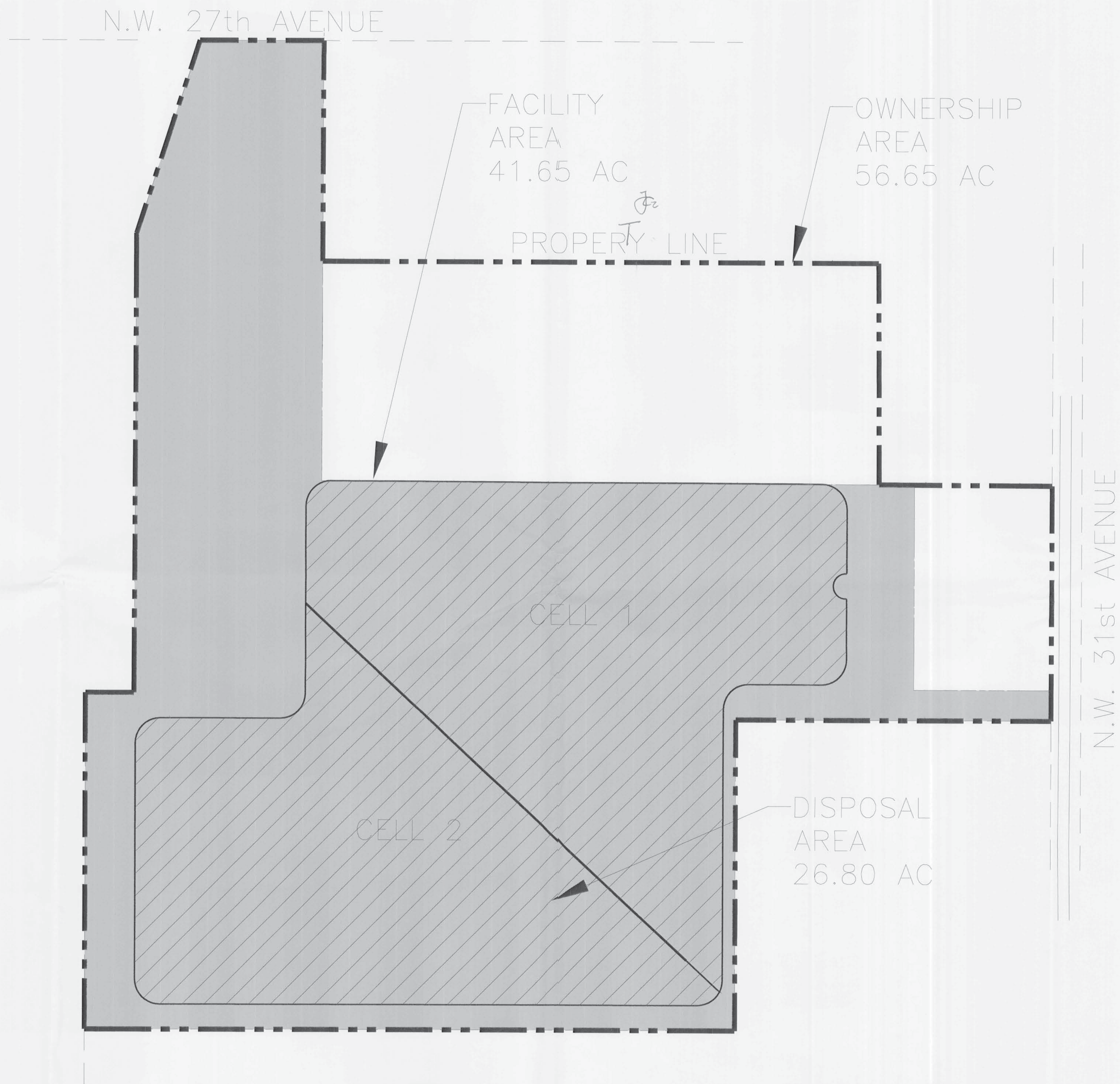




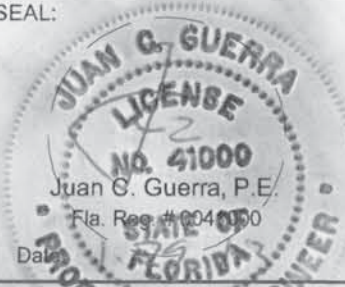

RECEIVED  
JAN 31 2013  
DES Central District

REVISIONS			Names		Date	<div>ENGINEER OF RECORD:</div> <div></div> <div>Guerra Development Corp. Consulting Engineering</div> <div>2817 NE 3rd St. Ocala, Florida 34470 (352) 629-8060 Phone guerracorp@att.net</div> <div>State of Florida Certificate of Authorization #4954</div>	<div>SEAL:</div> <div></div> <div>Juan C. Guerra, P.E. No. 41000 State of Florida Professional Engineer</div> <div>Date: _____</div>	<div>HORIZ. SCALE: 1" = 100'</div> <div>VERT. SCALE: 1" = 100'</div> <div>0 50' 100' 200'</div>	<div>NORTH</div> <div></div>	CLIENT:		FRIENDS RECYCLING, LLC		SHEET TITLE:		WELLS MAP		GDC DRAWING NAME		12-03_WELLS							
Date	By	Description	Drawn By	AMM	28 JAN 13					PROJECT NAME:								FRIENDS RECYCLING RENEWAL		JOB NO:		12-03		SHEET NO.		6 of 7	

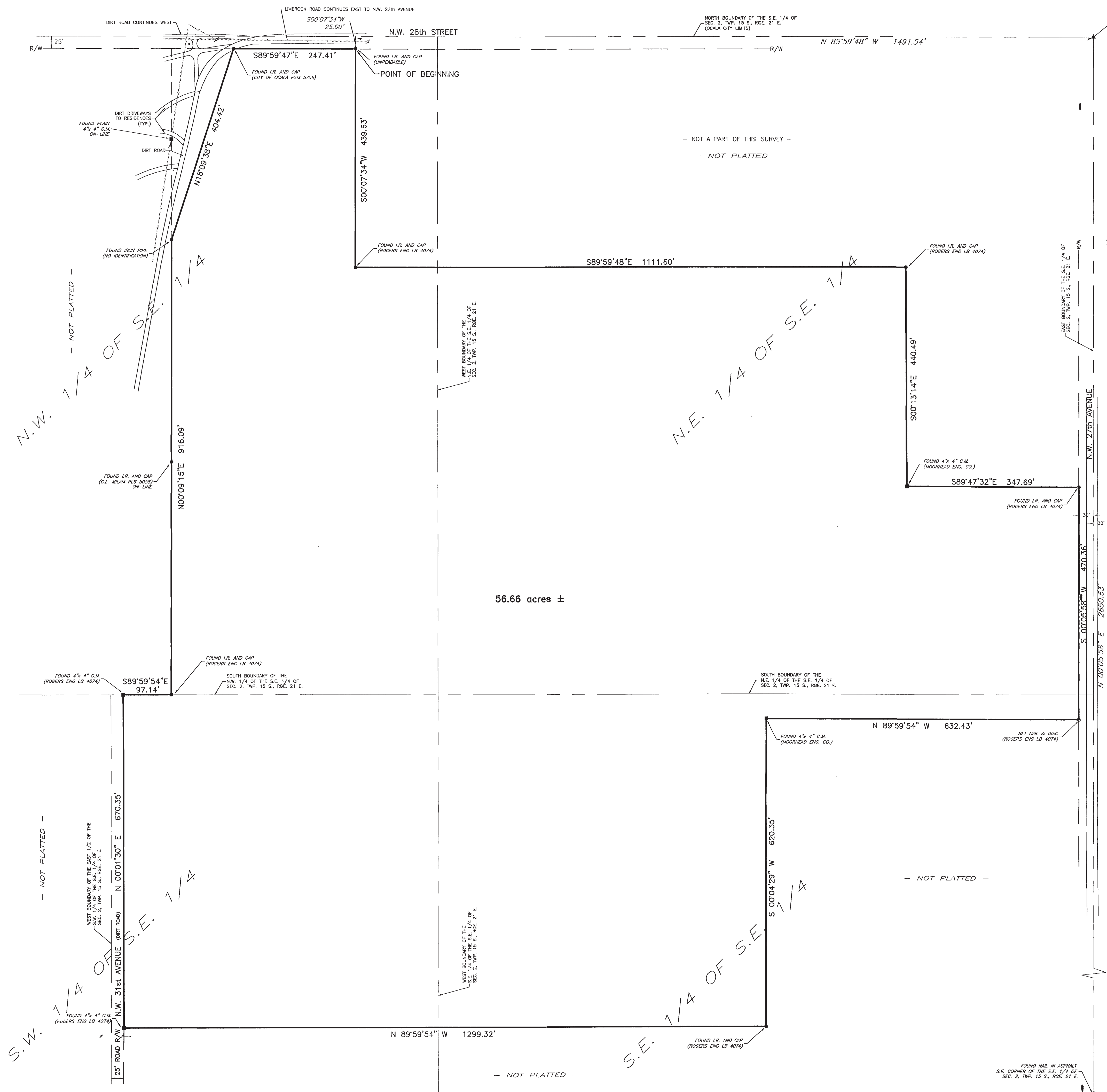




RECEIVED  
JAN 31 2013  
Doral - Central District

REVISIONS			Names		Date	ENGINEER OF RECORD:	Guerra Development Corp. Consulting Engineering 2817 NE 3rd St. Ocala, Florida 34470 (352) 629-8060 Phone guerracorp@att.net State of Florida Certificate of Authorization #4954	SEAL: 	N.T.S. HORIZ. SCALE: N.T.S. VERT. SCALE: N.T.S. 	CLIENT: FRIENDS RECYCLING, LLC	SHEET TITLE: AREA BREAKDOWN MAP		GDC DRAWING NAME 12-03_AREA	
Date	By	Description	Drawn By	AMM	28 JAN 13									
			Checked By	JCG										
			Designed By	JCG										
			Checked By	JCG										
			Approved By	JCG										
											PROJECT NAME: FRIENDS RECYCLING RENEWAL		JOB NO: 12-03	SHEET NO. 7 of 7





### LEGAL DESCRIPTION




A PORTION OF THE S.E. 1/4 OF SECTION 2, TOWNSHIP 15 SOUTH, RANGE 21 EAST, MARION COUNTY, FLORIDA LYING WEST OF N.W. 27TH AVENUE, SOUTH OF N.W. 28TH STREET AND EAST OF N.W. 31ST AVENUE BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHEAST CORNER OF THE S.E. 1/4 OF SAID SECTION 2;  
THENCE N89°59'48"W ALONG THE NORTH BOUNDARY OF SAID S.E. 1/4, 1491.54  
FEET; THENCE DEPARTING SAID NORTH BOUNDARY S00°07'34"W, 25.00 FEET TO A  
POINT ON THE SOUTH RIGHT-OF-WAY LINE OF N.W. 28TH STREET (50 FEET WIDE),  
SAID POINT ALSO BEING THE POINT OF BEGINNING; THENCE DEPARTING SAID RIGHT  
OF WAY LINE S00°59'54"W, 439.63 FEET; THENCE S89°59'48"E, 1111.60 FEET;  
THENCE S00°13'14"E, 440.49 FEET; THENCE S89°47'32"E, 347.69 FEET TO A  
POINT ON THE WEST RIGHT-OF-WAY LINE OF N.W. 27TH AVENUE (60 FEET WIDE);  
THENCE S00°05'58"W ALONG SAID RIGHT-OF-WAY LINE, 470.36 FEET;  
THENCE DEPARTING SAID RIGHT-OF-WAY LINE N89°59'54"W, 632.43 FEET; THENCE  
S00°04'29"W, 620.35 FEET; THENCE N89°59'54"W, 1299.32 FEET TO A POINT ON  
THE EAST RIGHT OF WAY LINE OF N.W. 31ST AVENUE (25 FEET WIDE); THENCE  
N00°01'30"E ALONG SAID RIGHT-OF-WAY LINE, 670.35 FEET; THENCE DEPARTING  
SAID RIGHT-OF-WAY LINE N89°59'54"W, 97.14 FEET; THENCE N00°09'15"E, 916.09  
FEET; THENCE N18°09'38"E, 404.42 FEET TO A POINT ON THE AFORESAID  
SOUTH RIGHT-OF-WAY LINE OF N.W. 28TH STREET; THENCE S89°59'47"E ALONG  
SAID RIGHT-OF-WAY LINE, 247.41 FEET TO THE POINT OF BEGINNING.

**SURVEY REPORT:**

1. BEARINGS ARE BASED ON ASSUMED DATUM: MORE PARTICULARLY THE EAST BOUNDARY OF THE S.E. 1/4 OF SECTION 2, TOWNSHIP 15 SOUTH, RANGE 21 EAST AS BEING S00°05'58"W.
2. FIELD SURVEY DATE : 12-21-2012.
3. NO TITLE INFORMATION REFLECTING RIGHTS-OF-WAY, OR EASEMENTS OF RECORD, WAS FURNISHED TO THIS SURVEYOR UNLESS SHOWN OR NOTED HEREON.
4. THE LEGAL DESCRIPTION SHOWN HEREON WAS WRITTEN BY THE SURVEYOR AND DESCRIBES THE PERIMETER OF ALL TAX PARCELS UNDER THE OWNERSHIP OF FRIENDS RECYCLING, LLC, THAT HAVE BEEN PREVIOUSLY SURVEYED BY THIS FIRM.
5. UNDERGROUND IMPROVEMENTS, OR UTILITIES, WERE NOT LOCATED.
6. ALL RIGHTS OF WAY SHOWN HEREON ARE PHYSICALLY OPEN UNLESS OTHERWISE STATED.
7. THIS PROPERTY APPEARS TO BE IN A ZONE "X" (AREA OUTSIDE THE 1-PERCENT ANNUAL CHANCE FLOODPLAIN) ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP COMMUNITY NUMBER 120330 PANEL 0508 SUFFIX D EFFECTIVE DATE AUGUST 28, 2008.
8. THIS SURVEY MEETS ALL APPLICABLE REQUIREMENTS CONTAINED IN CHAPTER 5J-17.050 THROUGH .052, FLORIDA ADMINISTRATIVE CODE AND THE ACCURACY OBTAINED BY MEASUREMENT AND CALCULATION OF A CLOSED GEOMETRIC FIGURE WAS FOUND TO EXCEED THE MINIMUM RELATIVE DISTANCE ACCURACY FOR SUBURBAN LAND USE.
9. UNLESS IT BEARS THE SIGNATURE AND SEAL OF THE LICENSED SURVEYOR AND MAPPER, THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.

### LEGEND

C.M.	CONCRETE MONUMENT
I.R.	IRON ROD
R/W	RIGHT OF WAY
E/P	EDGE OF PAVEMENT
C/L	CENTERLINE
SEC.	SECTION
TWP.	TOWNSHIP
RGE.	RANGE
	UTILITY POLE AND GUY ANCHOR
	OVERHEAD WIRES
	FENCE
CONC.	CONCRETE

SEE SHEET 2  
FOR IMPROVEMENTS AND TOPOGRAPHIC SURVEY

**ROGERS ENGINEERING, Inc.**  
Civil Engineering & Land Surveying

RECEIVED  
JAN 31 2003  
D&E Control Div.

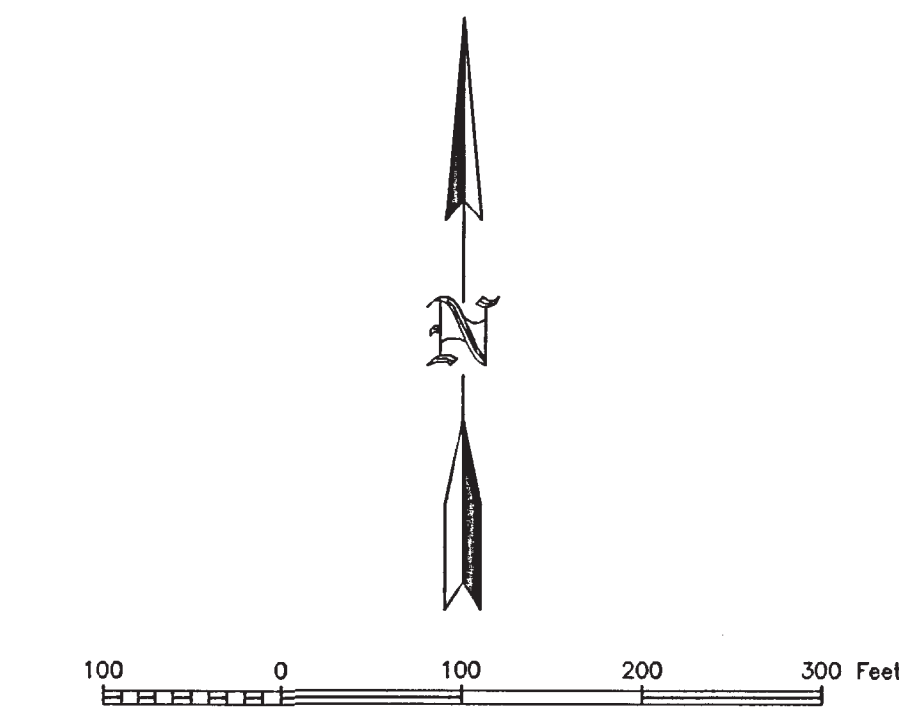
DATE  
12-21-2012

SCALE  
1" = 100'

SHEET  
1 OF 2

RODNEY K. ROGERS  
PROFESSIONAL SURVAYOR  
REGISTRATION NO. 527  
STATE OF FLORIDA





- NOTES:
1. THIS PROPERTY CONTAINS AN ACTIVE LANDFILL OPERATION THAT ALTERS THE GROUND CONTOUR ELEVATIONS IN CERTAIN AREAS ON A DAILY BASIS. THE CONTOUR LINES SHOWN HEREON REPRESENT THE PROPERTY CONDITION ON THE DATE OF THE SURVEY.
  2. FIELD SURVEY DATE : 12-21-2012.
  3. ELEVATIONS AND CONTOURS SHOWN HEREON ARE BASED ON N.G.V.D. DATUM; CITY OF OCALA BM @ N.W. 27th AVENUE AND N.W. 18th STREET; ELEVATION 69.47 (NAVD-88).
  4. THE TOP ELEVATION OF THE MONITORING WELLS, AS SHOWN HEREON, REPRESENT THE ELEVATION OF THE TOP OF THE WELL CASING ON THE NORTH EDGE. THE GROUND ELEVATION REPRESENTS THE ELEVATION OF THE GROUND, NEXT TO THE WELL CASING ON THE NORTH SIDE.

- LEGEND
- I.R. IRON ROD
  - R/W RIGHT OF WAY
  - UTILITY POLE AND GUY ANCHOR
  - OVERHEAD WIRES
  - FENCE
  - CONC. CONCRETE
  - GROUND CONTOUR LINE
  - T.B.M. TEMPORARY BENCHMARK
  - ELEV. ELEVATION
  - LAT. LATITUDE
  - LONG. LONGITUDE

SEE SHEET 1  
FOR SURVEY REPORT, LEGAL DESCRIPTION AND BOUNDARY SURVEY

RODNEY K. ROGERS, P.E.  
PROFESSIONAL SURVEYOR  
REGISTRATION NO. 5274  
STATE OF FLORIDA

A TOPOGRAPHIC SURVEY FOR FRIENDS RECYCLING, L.L.C.		DATE 12-21-2012
		SCALE 1" = 100'
		SHEET 2 OF 2
ROGERS ENGINEERING, Inc. Civil Engineering & Land Surveying 1105 S.E. 3rd Avenue • Ocala, Florida 34471 • Ph. (352) 622-9214 • Lic. Bus. #4074		Robert L. Rogers, P.E. Fl. Reg. No. 10027 rlrogers@rogerseng.com Rodney K. Rogers, P.S.M. Fl. Reg. No. 5274 rkrogers@rogerseng.com William A. Menzies, P.E. Fl. Reg. No. 74581 wmenzies@rogerseng.com