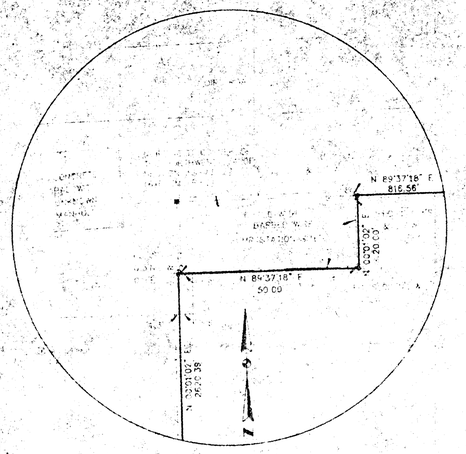
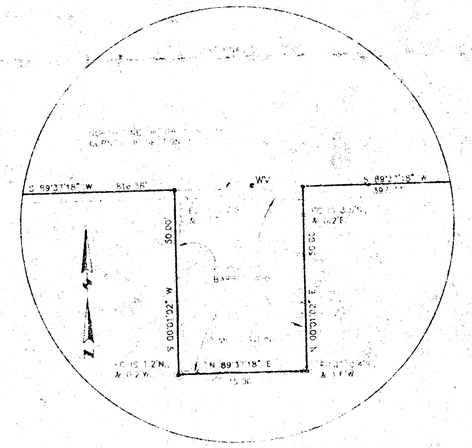
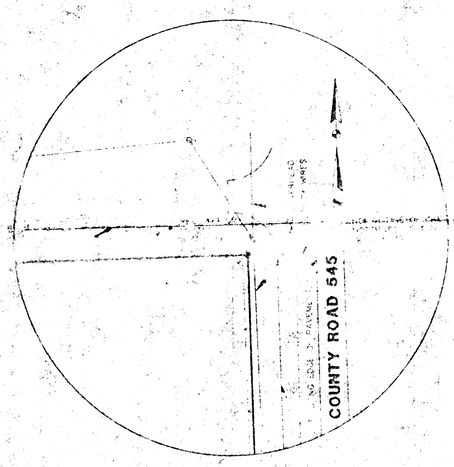


DETAIL "A"

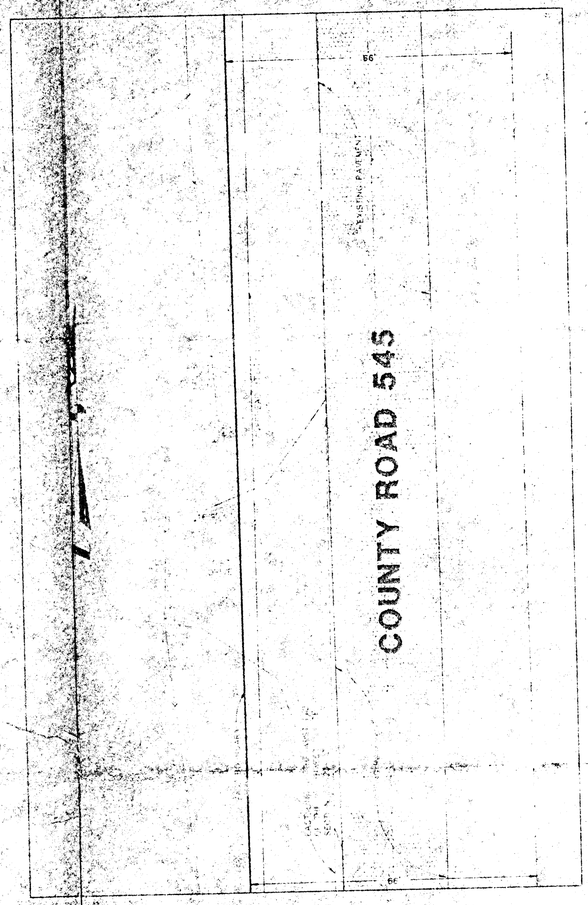
SCALE 1" = 20'



DETAIL "B"

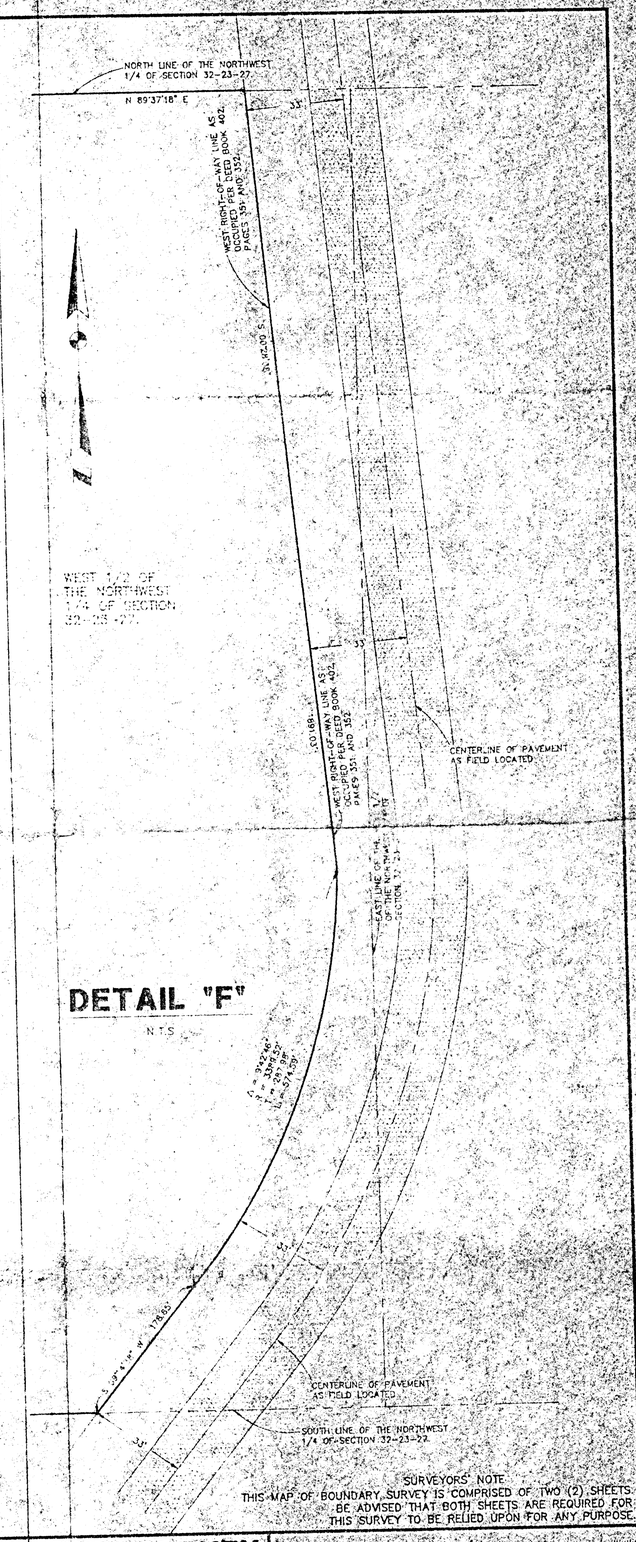


DETAIL "C"



DETAIL "D"

N.T.S.



DETAIL "F"

N.T.S.

LEGAL DESCRIPTION

SEE SHEET 1 OF 2 FOR LEGAL DESCRIPTION

GENERAL NOTES:

SEE SHEET 1 OF 2 FOR GENERAL NOTES

ABBREVIATION LEGEND

Δ = DELTA
R = RADIUS
L = ARC LENGTH
T = TANGENT
C/L = CENTER LINE
COR = CORNER
D.B. = DEED BOOK
P.B. = PLAT BOOK
PG. = PAGE
P.C. = POINT OF CURVATURE
P.I. = POINT OF INTERSECTION
LB # = LAND SURVEYOR BUSINESS NUMBER
IRS/C = IRON BAR AND CAP
⊗ = RECOVERED IRON PIPE AND CAP LB # 3577 UNLESS OTHERWISE NOTED
REC. = RECOVERED
BNDY = BOUNDARY
NTS = NOT TO SCALE
R/W = RIGHT OF WAY
N.T.S. = NOT TO SCALE
O.R. = OFFICIAL RECORD
CLF = CHAIN LINK FENCE
CM = CONCRETE MONUMENT
C/MO = CONCRETE
WV = WATER VALVE
UMH = UNKNOWN MANHOLE
WPP = WOOD POWER POLE
FC = FENCE CORNER

SURVEYORS' NOTE
THIS MAP OF BOUNDARY SURVEY IS COMPRISED OF TWO (2) SHEETS. BE ADVISED THAT BOTH SHEETS ARE REQUIRED FOR THIS SURVEY TO BE RELIED UPON FOR ANY PURPOSE.

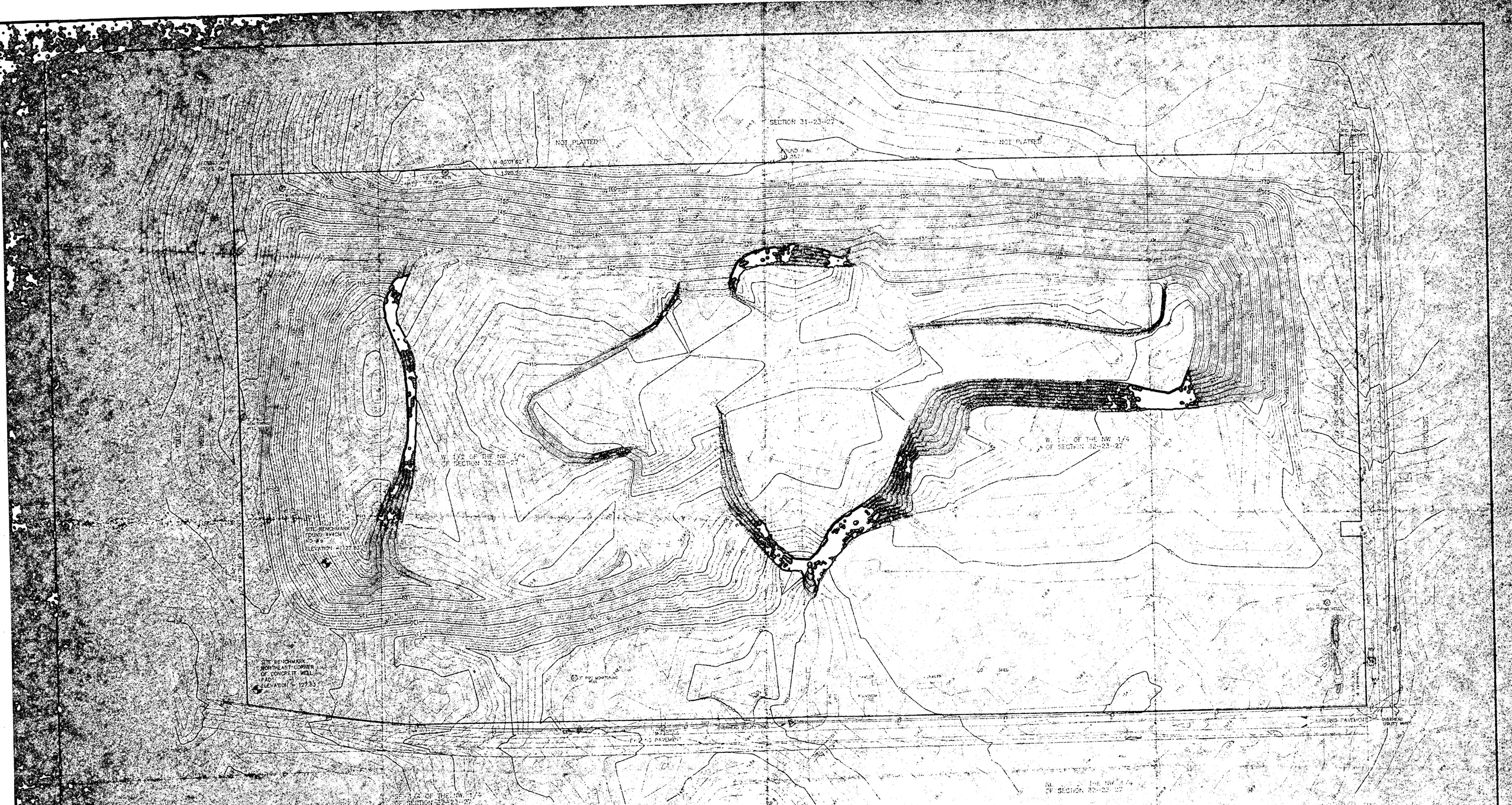
MAP OF BOUNDARY SURVEY FOR SCHOFIELD LANDFILL

ORANGE COUNTY, FLORIDA

FIELD BOOK	DRAWN BY	SURVEY NUMBER	DATE OF FIELD WORK
8801BND7.DWG	JDB	B801	4-14-97

THE CIVIL DESIGN GROUP
ENGINEERS · SURVEYORS · PLANNERS
431 SOUTH ROSALIND AVENUE, SUITE 200
ORLANDO, FLORIDA 32801
PHONE (407) 843-4140

SHEET	OF	SCALE	TOWNSHIP-RANGE-SECTION
2	2	1" = NTS	32-23-27



ABBREVIATION LEGEND

AC. = ACRES	R/W = RIGHT OF WAY
ARC LENGTH	N.T.S. = NOT TO SCALE
TANGENT	R.O.B. = RECORD BEARING
CENTER LINE	R.O.D. = RECORD DISTANCE
BENCH	CLF = CHAIN LINK FENCE
CONC. = CONCRETE	OVERHEAD UTILITY
PLAT BOOK	CONC. = CONCRETE
PAGE	W/V = WATER VALVE
CONCRETE MONUMENT	F.H. = FIRE HYDRANT
PLANTED DIAMETER	1/4 = QUARTER
PLANTED DIAMETER	W/M = WOOD MARKER
CATV = CABLE TELEVISION	
SET 5/8" IRON PIPE AND CAP	
LEGEND: IRON PIPE AND CAP FOUND UNLESS OTHERWISE NOTED	
R.O.W. = RIGHT OF WAY	
BOTT. = BOTTOM	

GENERAL NOTES:

BEARINGS AS SHOWN HEREON ARE BASED ON THE WEST LINE OF THE NORTHWEST 1/4 OF SECTION 32, TOWNSHIP 23 SOUTH, RANGE 27 EAST, AS HAVING AN ASSUMED BEARING OF N00°01'02"E.

NOT VISIBLE, AND SUBSURFACE IMPROVEMENTS NOT LOCATED UNLESS NOTED OTHERWISE.

THIS PROPERTY MAY BE SUBJECT TO ADDITIONAL EASEMENTS, COVENANTS AND RESTRICTIONS NOT SHOWN HEREON BUT FOUND IN THE PUBLIC RECORDS OF THIS COUNTY.

THIS SURVEY IS PERFORMED FOR THE SOLE AND EXCLUSIVE BENEFIT OF THE ENTITIES LISTED HEREON AND SHALL NOT BE RELIED UPON BY ANY OTHER ENTITY OR INDIVIDUAL WHOMSOEVER.

TOPOGRAPHIC INFORMATION AS SHOWN IS BASED ON ASSUMED DATUM BASED ON THE BENCH MARKS AS SHOWN.

BOUNDARY INFORMATION AS SHOWN IS BASED UPON BOUNDARY SURVEY PERFORMED BY THE CIVIL DESIGN GROUP, INC. WITH LAST DATE OF FIELD SURVEY OF 8-19-95.

LEGAL DESCRIPTION

All that portion of the west 1/2 of the Northwest 1/4 of Section 32, Township 23 South, Range 27 East, located in Orange County, Florida, lying West of Avalon Road (State Road #545) located in Orange County, Florida.

LESS AND EXCEPT: The Northerly 20.00 feet of the Westerly 50.00 feet of the Northwest 1/4 of the Northwest 1/4 of Section 32, Township 23 South, Range 27 East, located in Orange County, Florida.

LESS AND EXCEPT: The Northerly 50.00 feet of the Easterly 35.00 feet of the Westerly 90.54 feet of the Northwest 1/4 of the Northwest 1/4 of Section 32, Township 23 South, Range 27 East, located in Orange County, Florida.

ITEM 2-B

MAP OF TOPOGRAPHIC SURVEY FOR 545 BORROW PIT

ORANGE COUNTY, FLORIDA

FILE NAME	DRAWN BY	PROJECT NUMBER	LAST DATE OF FIELD SURVEY
8301T7.DWG	JOB	9631	8-7-98

SHEET	OF	SCALE	SECTION-TOWNSHIP-RANGE	DATE	REVISIONS	REVISED BY	CHECKED BY
1	1	1"=100'	32-23-27				

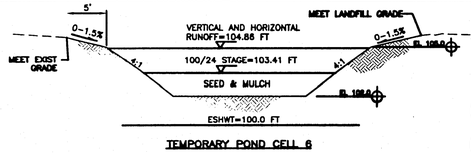
CIVIL DESIGN GROUP, INC.

NOTE:

1. SURVEY INFORMATION SHOWN HEREON IS A COMPOSITE OF DATA FROM 1) TOPOGRAPHIC SURVEY PREPARED BY CIVIL DESIGN GROUP DATED 8/7/96, AND 2) PARTIAL TOPOGRAPHIC SURVEY PREPARED BY HARTMAN & ASSOCIATES, INC.
2. ELEVATION SHOWN HEREON ARE BASED ON VERTICAL DATUM, AS PROVIDED BY CLIENT.
3. THE NORTH TEMPORARY STORMWATER POND SHOWN HEREON IS SHOWN PER SURVEY DATA FROM HARTMAN & ASSOCIATES, INC. COLLECTED 11-16-96.
4. BOUNDARY INFORMATION SHOWN HEREON IS BASED UPON A "MAP OF TOPOGRAPHIC SURVEY FOR 545 BORROW PIT", DATED 8/7/96 BY THE CIVIL DESIGN GROUP. THE DRAWING FILE 88011TP7.DWG WAS PROVIDED BY CLIENT.

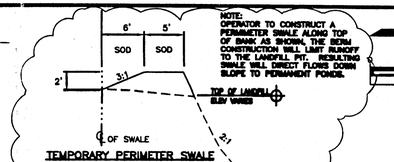
LEGEND

- 156 — EXISTING CONTOURS
- PERMITTED CONTOURS
- CELL BOUNDARIES
- BASIN BOUNDARIES
- PROPERTY BOUNDARY



TEMPORARY POND CELL 6

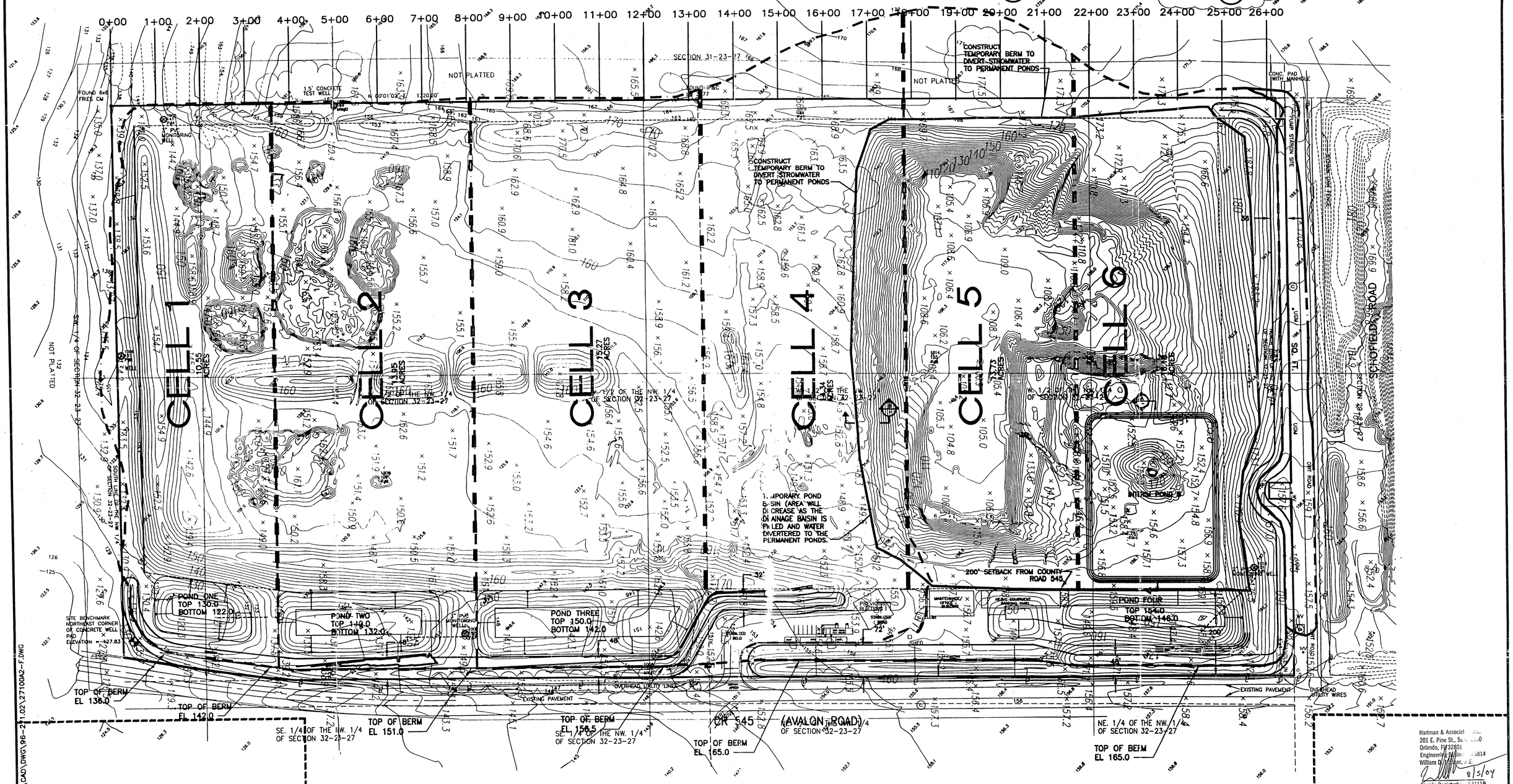
SECTION A
SCALE: NTS



NOTE: OPERATOR TO CONSTRUCT A PERIMETER SWALE ALONG TOP OF BANK AS SHOWN. THE BERM CONSTRUCTION WILL LIMIT RUNOFF TO THE LANDFILL PIT. REGRADING SWALE WILL DIRECT FLOWS DOWN SLOPE TO PERMANENT PONDS.

TEMPORARY PERIMETER SWALE

SECTION B
SCALE: NTS



Plotted: May 21, 2003 - 3:43pm

Hartman & Associates, Inc.
201 E. Pine St., Suite 1000
Orlando, FL 32801
Engineering Business No. 5814
William D. Musser, P.E.
8/5/04
Florida Registration No. 41118

HARTMAN & ASSOCIATES, INC.
engineers, hydrogeologists, surveyors & management consultants
201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801
TELEPHONE (407) 839-3955 - FAX (407) 839-3790

CWI - 545 C & D LANDFILL PERMIT RENEWAL ORANGE COUNTY, FLORIDA

FINAL GRADING AND DRAINAGE PLAN

DATE	REVISIONS	REVISED	CHECKED

William D. Musser, P.E.
P.E. No. 41118, FL
201 East Pine Street
Orlando, Florida 32801
Engineering Business No. 5814
DATE 5/21/03

	BY	DATE
DESIGNED	RDH	1-03
DRAWN	ARD	1-03
CHECKED	JLD	1-03
QC APPROVAL	WDM	1-03

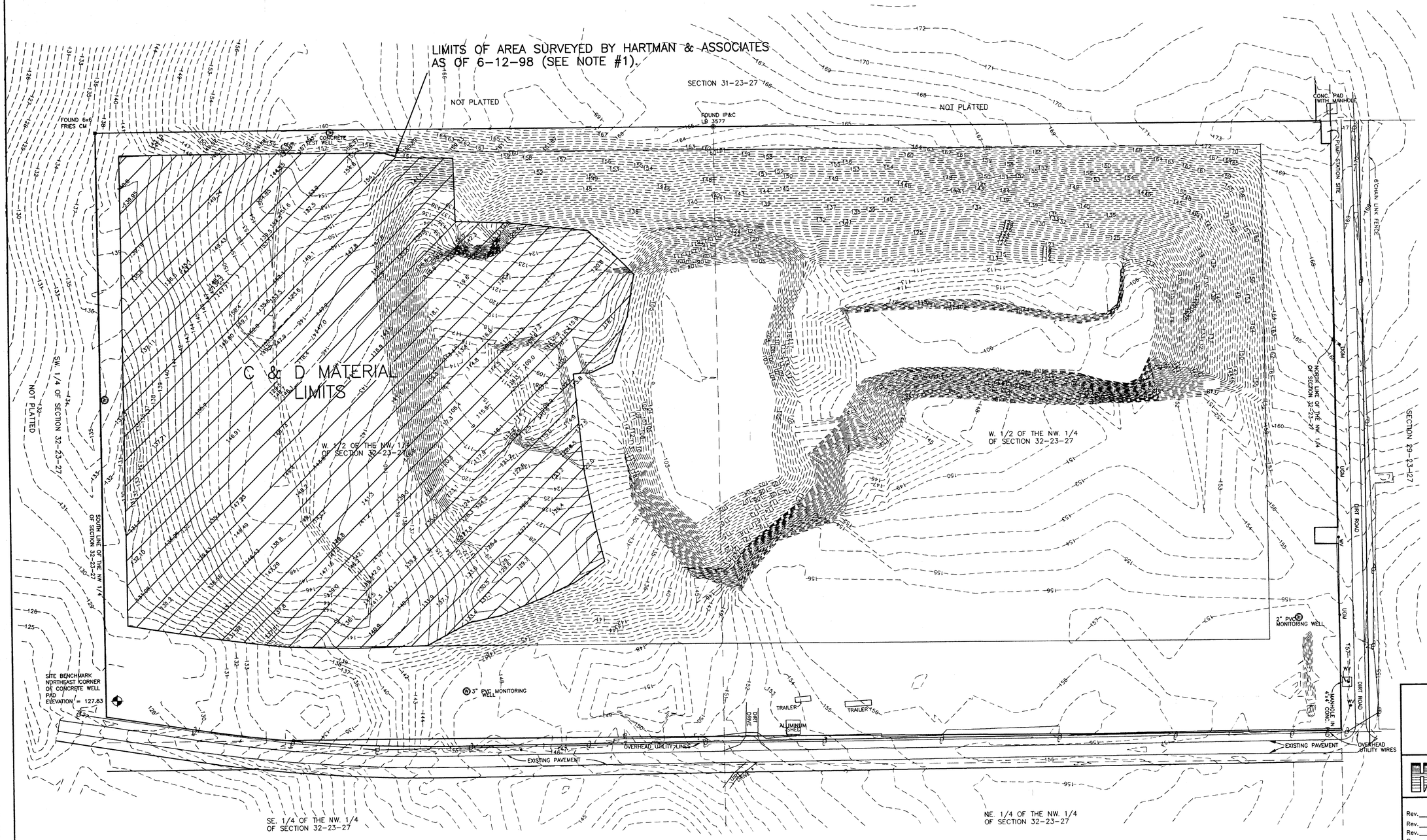
FILE: 27100A2-F.DWG

PROJECT NO. 96-271.02
SCALE 1"=100'
ITEM 2-F
SHEET OF

NOTE:

1. SURVEY INFORMATION SHOWN HEREON IS A COMPOSITE OF DATA FROM 1) TOPOGRAPHIC SURVEY PREPARED BY CIVIL DESIGN GROUP DATED 8/7/96, AND 2) PARTIAL TOPOGRAPHIC SURVEY PREPARED BY HARTMAN & ASSOCIATES, INC.
2. ELEVATION SHOWN HEREON ARE BASED ON VERTICAL DATUM, AS PROVIDED BY CLIENT.
4. BOUNDARY INFORMATION SHOWN HEREON IS BASED UPON A "MAP OF TOPOGRAPHIC SURVEY FOR 545 BORROW PIT", DATED 8/7/96 BY THE CIVIL DESIGN GROUP. THE DRAWING FILE 8801TP7.DWG WAS PROVIDED BY CLIENT.
5. THIS IS NOT A SURVEY.

SCALE: 1"=100'



TOPOGRAPHIC SURVEY OF THE C & D MATERIAL CWI – 545 C&D LANDFILL FOR PERMIT RENEWAL

HARTMAN & ASSOCIATES, INC.
engineers, hydrogeologists, surveyors & management consultants
201 EAST PINE STREET – SUITE 1000 – ORLANDO, FL 32801
TELEPHONE (407) 839-3855 – FAX (407) 839-3790
LICENSED BUSINESS NO. #5614

REVISIONS

Rev. _____ Date: _____
Rev. _____ Date: _____
Rev. _____ Date: _____
Rev. _____ Date: _____

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

Job No:	97-271.02
Cadd File:	97/27100E05
Field Date:	6/12/98
Drawn By:	LEJ
Field By:	DRC
Field Bk/Pg:	130/13

Lawrence E. Jenkins
Professional Surveyor and Mapper
Florida Registration #5364

C:\TEMP\SCHCALC\27100E05.dwg Fri Jan 29 11:11:49 1999 E

LINE TABLE		
LINE	BEARING	LENGTH
L1	S 09°14'51" W	178.83
L2	S 89°37'31" W	50.00
L3	S 00°01'35" W	20.00
L4	S 00°01'35" W	50.01
L5	S 89°37'31" W	35.00
L6	S 00°01'35" W	50.01
L7	N 89°37'31" E	24.98
L8	S 00°27'55" E	9.96

CURVE TABLE					
CURVE	RADIUS	DELTA	LENGTH	CHORD	BEARING
C1	3389.52	9°12'46"	574.59	573.90	N 04°23'28" E

LEGAL DESCRIPTION:

ALL THAT PORTION OF THE WEST 1/2 OF THE NORTHWEST 1/4 OF SECTION 32, TOWNSHIP 23 SOUTH, RANGE 27 EAST, LOCATED IN ORANGE COUNTY, FLORIDA, LYING WEST OF AVALON ROAD (STATE ROAD 545) LOCATED IN ORANGE COUNTY, FLORIDA.

LESS AND EXCEPT: THE NORTHERLY 20 FEET OF THE WESTERLY 50 FEET OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 32, TOWNSHIP 23 SOUTH, RANGE 27 EAST, LOCATED IN ORANGE COUNTY, FLORIDA.

LESS AND EXCEPT: THE NORTHERLY 50 FEET OF THE EASTERLY 35 FEET OF THE WESTERLY 901.54 FEET OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 32, TOWNSHIP 23 SOUTH, RANGE 27 EAST, LOCATED IN ORANGE COUNTY, FLORIDA.

CONTAINING 78.90 ACRES MORE OR LESS.

NOTES:

1. THE PURPOSE OF THIS SURVEY IS TO VERIFY SPOT ELEVATIONS IN THE AREAS SHOWN.

2. NO OTHER INFORMATION WAS VERIFIED BY THIS SURVEY.

3. TOPOGRAPHIC INFORMATION BASED ON SURVEY PROVIDED BY CLIENT AS PREPARED BY PICKET SURVEYING AND PHOTOGRAMMETRY, PROJECT NO. 12138-5, DATED 03/11/05.

4. BOUNDARY INFORMATION BASED ON SURVEY PROVIDED BY CLIENT AS PREPARED BY LAND TECH SURVEYING AND MAPPING CORP., PROJECT NO. 03123, DATED 1/25/03.

DATE	REVISIONS	REVISED	CHECKED

REFERENCE DRAWINGS

LAWRENCE E. JENKINS
PROFESSIONAL SURVEYOR
AND MAPPER
FLORIDA REGISTRATION #5364

HARTMAN & ASSOCIATES, INC.
engineers, hydrographists, surveyors & management consultants
201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801
TELEPHONE (407) 839-3955 - FAX (407) 839-3790
ENGINEERING BUSINESS No. 3914

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

SPECIFIC PURPOSE SURVEY OF THE CELL VERIFICATION FOR CWI - 545 C & D LANDFILL

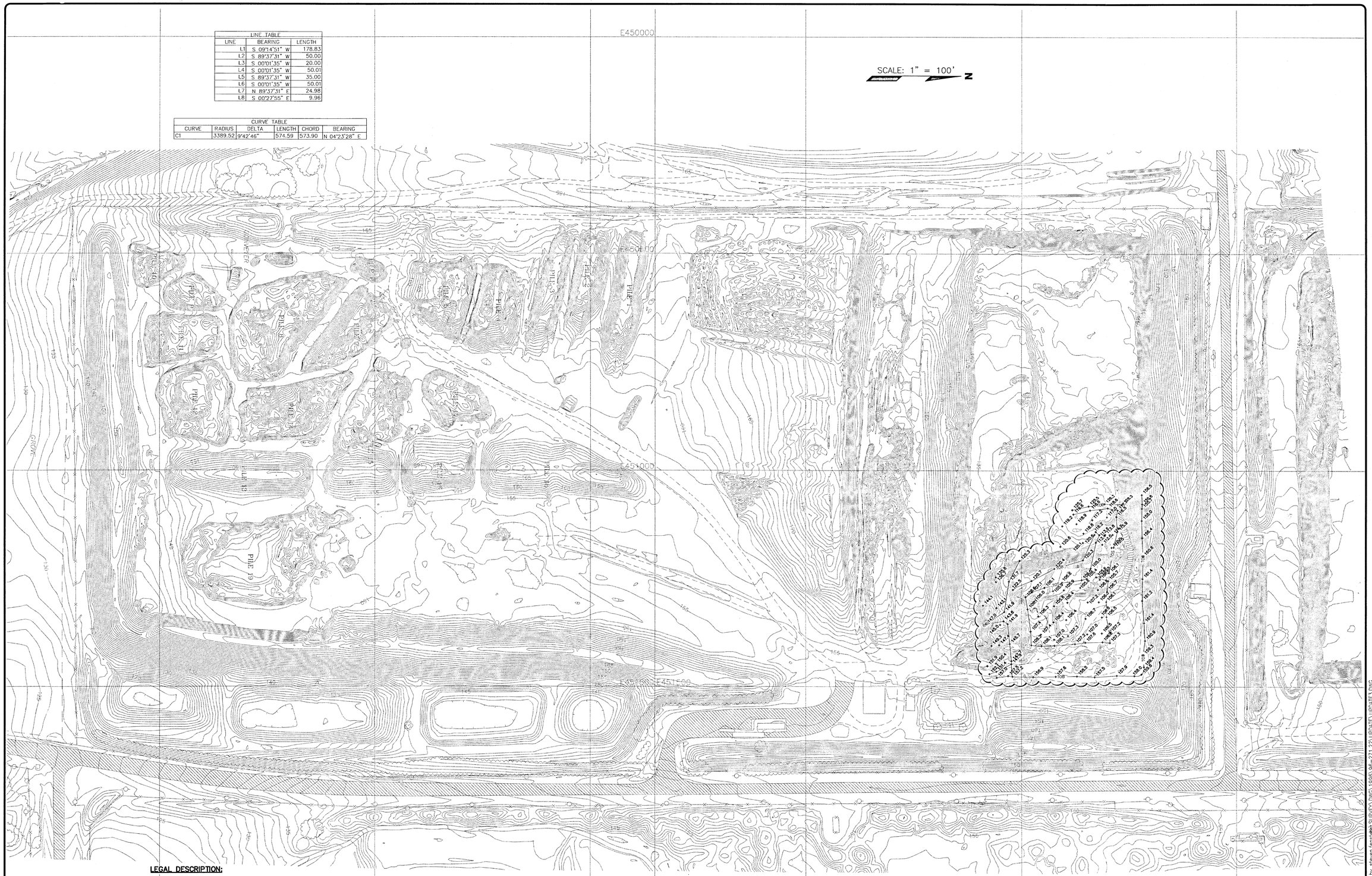
RECEIVED JUN 6 2005

	BY	DATE
DRAWN	CIS	5/4/02
FIELD	TN	4/27/05
FIELD BOOK/PAGE		
PROJECT NO. 96.0271.022		
SCALE 1"=100'		
SHEET 1 OF 1		

Plotted: May 17, 2005 - 11:23am by steve.ferris(M:\SURVEY\DWG\1996\96-271.22\UPDATE\UPDATE.DWG)

LINE TABLE		
LINE	BEARING	LENGTH
L1	S 09°14'51" W	178.83
L2	S 89°37'31" W	50.00
L3	S 00°01'35" W	20.00
L4	S 00°01'35" W	50.01
L5	S 89°37'31" W	35.00
L6	S 00°01'35" W	50.01
L7	N 89°37'31" E	24.98
L8	S 00°27'55" E	9.96

CURVE TABLE					
CURVE	RADIUS	DELTA	LENGTH	CHORD	BEARING
C1	3389.52	9°42'46"	574.59	573.90	N 04°23'28" E



LEGAL DESCRIPTION:

ALL THAT PORTION OF THE WEST 1/2 OF THE NORTHWEST 1/4 OF SECTION 32, TOWNSHIP 23 SOUTH, RANGE 27 EAST, LOCATED IN ORANGE COUNTY, FLORIDA, LYING WEST OF AVALON ROAD (STATE ROAD 545) LOCATED IN ORANGE COUNTY, FLORIDA.

LESS AND EXCEPT: THE NORTHERLY 20 FEET OF THE WESTERLY 50 FEET OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 32, TOWNSHIP 23 SOUTH, RANGE 27 EAST, LOCATED IN ORANGE COUNTY, FLORIDA.

LESS AND EXCEPT: THE NORTHERLY 50 FEET OF THE EASTERLY 35 FEET OF THE WESTERLY 901.54 FEET OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 32, TOWNSHIP 23 SOUTH, RANGE 27 EAST, LOCATED IN ORANGE COUNTY, FLORIDA.

CONTAINING 78.90 ACRES MORE OR LESS.

NOTES:

1. THE PURPOSE OF THIS SURVEY IS TO VERIFY SPOT ELEVATIONS IN THE AREAS SHOWN.

2. NO OTHER INFORMATION WAS VERIFIED BY THIS SURVEY.

3. TOPOGRAPHIC INFORMATION BASED ON SURVEY PROVIDED BY CLIENT AS PREPARED BY PICKET SURVEYING AND PHOTOGRAMMETRY, PROJECT NO. 12138-5, DATED 03/11/05.

4. BOUNDARY INFORMATION BASED ON SURVEY PROVIDED BY CLIENT AS PREPARED BY LAND TECH SURVEYING AND MAPPING CORP., PROJECT NO. 03123, DATED 1/25/03.

REFERENCE DRAWINGS	DATE	REVISIONS	REVISED	CHECKED

LAWRENCE E. JENKINS
PROFESSIONAL SURVEYOR
AND MAPPER
FLORIDA REGISTRATION #5364

HARTMAN & ASSOCIATES, INC.
engineers, hydrogeologists, surveyors & management consultants
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TELEPHONE (407) 839-3955 - FAX (407) 839-3790
ENGINEERING BUSINESS No. 3814

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

NOV 08 2005
Central Dist. - EP

SPECIFIC PURPOSE SURVEY OF THE CELL VERIFICATION FOR CWI - 545 C & D LANDFILL

	BY	DATE
DRAWN	CS/SF	11/2/05
FIELD	TN	10/31/05

FIELD BOOK/PAGE

PROJECT NO. 96.0271.022

SCALE 1"=100'

SHEET 1 OF 1

Plotted: Nov 07, 2005 - 8:00am by steven.fenstermaker\SURVEY\DWG\1996\96-271.22\UPDATE\UPDATE3.DWG

I O ROXA