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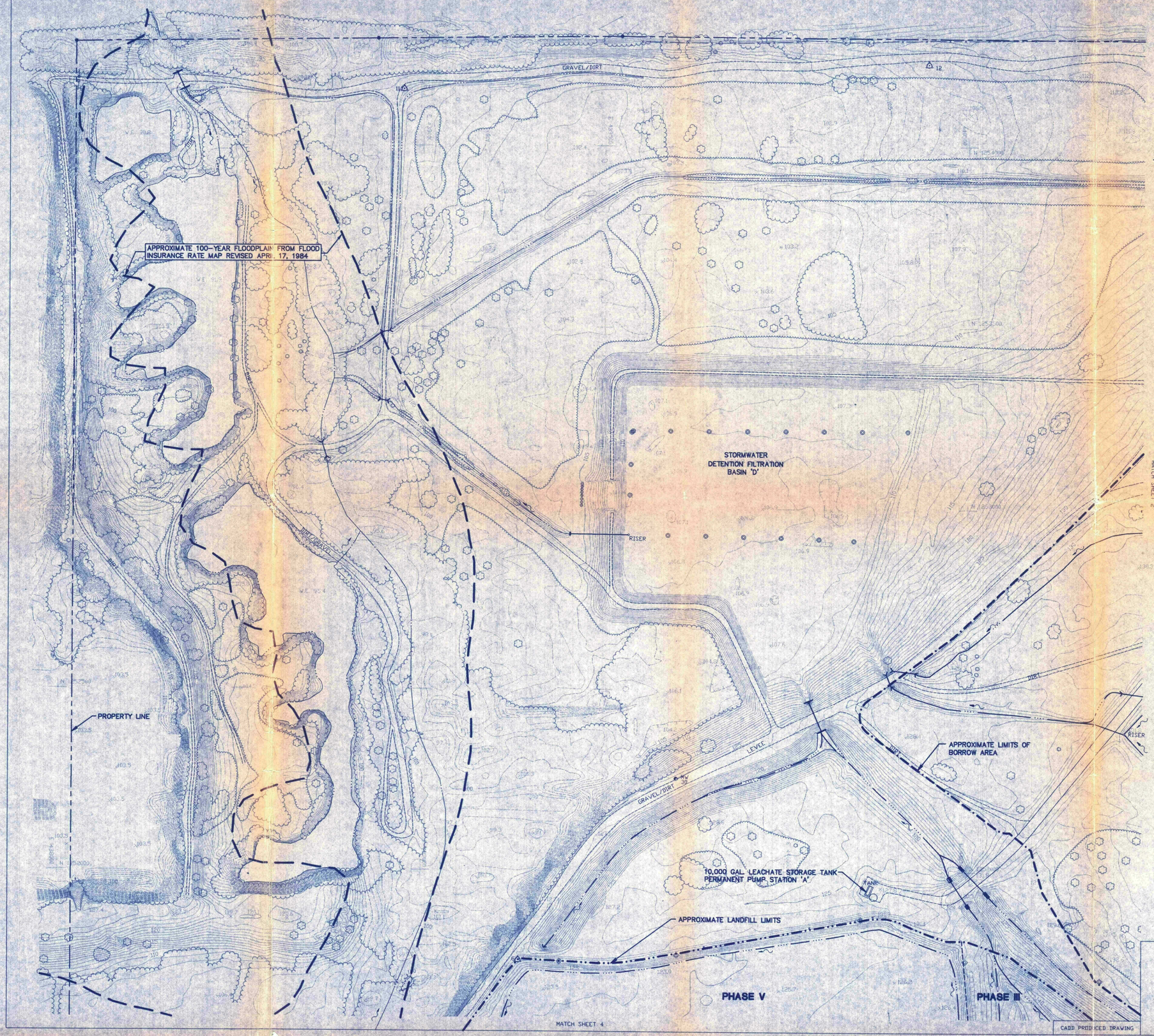


LEGEND

- BRUSHLINE
- CABLE MARKER
- CATCH BASIN
- DROP INLET
- FENCE
- FIRE HYDRANT
- GUARD RAIL
- LIGHT POLE
- MISCELLANEOUS POLE
- MONITORING WELL
- CENTERLINE OF OF EXIST. SWALE
- SUMP
- STORMWATER FILTRATION C/D
- MONUMENT
- POST
- RAILROAD TRACKS
- SIGN
- SWAMP
- TRAFFIC LIGHT
- TREE
- TREELINE
- UNIDENTIFIED OBJECT
- UTILITY POLE
- VALVE
- WATER LINE
- DRAINAGE FLOW DIRECTION
- LEACHATE COLLECTION SYSTEM C/D

ABBREVIATIONS

ASPH	ASPHALT
A/C	AIR CONDITIONER
BR	BRICK
CB	CATCH BASIN
C.CONC	CONCRETE
DI	DROP INLET
HDWL	HEAD WALL
MC	METAL COVER
MH	MANHOLE
TRANS.	TRANSFORMER
U/C	UNDER CONSTRUCTION
W	WALL
WOOD	WOOD

CONTROL LEGEND

POINT	DESCRIPTION	NORTH	EAST	ELEV.
1A	PANEL TARGET	1249252.2388	438212.4226	127.57
2A	PANEL TARGET	1249368.4921	439183.3644	125.52
3	PANEL TARGET	1249245.2818	440427.7973	126.66
4	PANEL TARGET	1249123.1526	441960.7618	130.04
5	PANEL TARGET	1249215.9069	442480.6826	125.91
6	PANEL TARGET	1251752.6848	439269.6626	128.74
7B	PANEL TARGET	1251467.706	440681.573	141.87
8	PANEL TARGET	1251440.3349	441914.9603	137.76
9	PANEL TARGET	1251415.3182	443469.7110	134.72
10	PANEL TARGET	1251971.6538	444410.6075	147.97
11	PANEL TARGET	1254155.5549	438946.0680	97.08
12	PANEL TARGET	1254225.9970	440388.4090	108.09
13	PANEL TARGET	1254257.2909	441873.9292	114.64
14	PANEL TARGET	1254252.4851	443345.6208	117.57
15	PANEL TARGET	1254232.4500	444864.5679	122.77
16	PANEL TARGET	1249941.6523	441795.3615	171.57

This map compiled by photogrammetric methods from aerial photography dated 3-18-94
Vertical datum based on NGS Mean Sea Level
Contour interval 1 ft
Grid based on Florida State Plane Coordinate System NAD 1927
Air Survey Corp. Project NO.7940226

Dashed contours indicate that ground is partially obscured by vegetation or shadows. These areas may not meet standard accuracy and require field testing\completion.

0 100 200 300 400 500
SCALE: 1"=125'

NOTE:
ALL TEMPORARY AND PERMANENT DRAINAGE STRUCTURES ARE IDENTIFIED ON THE FINAL DRAINAGE PLAN DRAWING NO. 3, APPENDIX E.

REV	DATE	DESCRIPTION	DES BY	APP BY

PROJECT NO
DATE
DES BY
DRN BY
CHK BY
APP BY

SOUTHEAST COUNTY LANDFILL
EXISTING TOPOGRAPHY
PERMIT RENEWAL-APPENDIX D

SHEET 1 OF 5
DRAWING NO

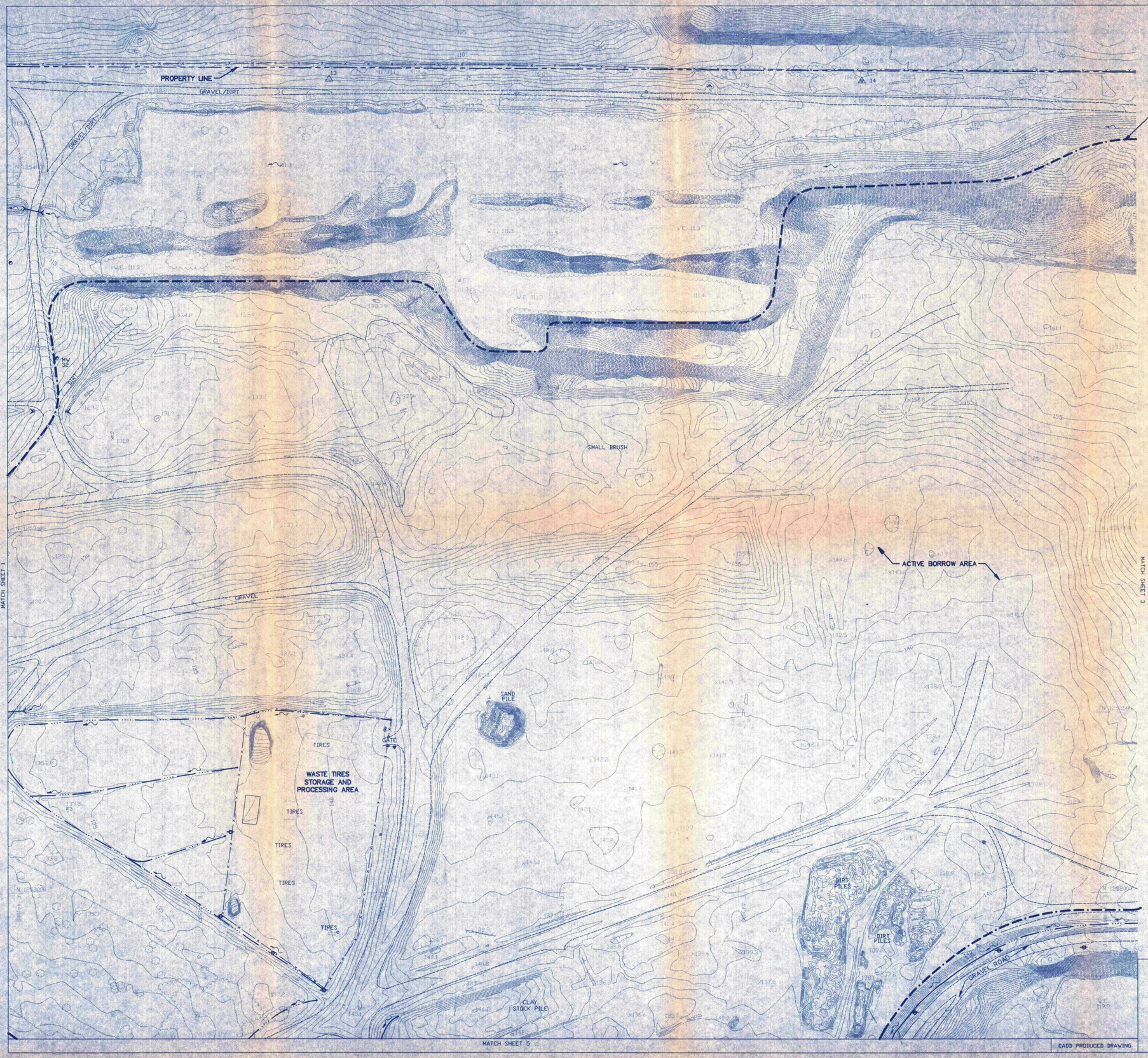
Waste Management of North America, Inc.
SOUTHEAST REGION

FILE NAME: 9940A3-X-XXXPD-SEC.DWG
PLOT DATE: XXXXXXXXXXXXXXXX

REFERENCE FILES:
XR-
XR-
XR-
XR-
XR-

TITLE:
JOB LV:
JOB LV:
JOB LV:
JOB LV:
JOB LV:

JOB LV:
JOB LV:
JOB LV:
JOB LV:
JOB LV:



ABBREVIATIONS

AASPH	ASPHALT
A/C	AIR CONDITIONER
BR	BRICK
CB	CATCH BASIN
C.CONC	CONCRETE
DI	DROP INLET
HDWL	HEAD WALL
MC	METAL COVER
MH	MANHOLE
TRANS	TRANSFORMER
U/C	UNDER CONSTRUCTION
W	WALL
WD	WOOD

LEGEND

BRUSHLINE	MONUMENT
CABLE MARKER	POST
CATCH BASIN	RAILROAD TRACKS
DROP INLET	SIGN
FENCE	SWAMP
FIRE HYDRANT	TRAFFIC LIGHT
GUARD RAIL	TREE
LIGHT POLE	TREELINE
MISCELLANEOUS POLE	UNIDENTIFIED OBJECT
MONITORING WELL	UTILITY POLE
CENTERLINE OF OF EXIST. SWALE	VALVE
SUMP	WATER LINE
STORMWATER FILTRATION C/D	DRAINAGE FLOW DIRECTION
	LEACHATE COLLECTION SYSTEM C/D

CONTROL LEGEND

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Air Survey Corp. Project NO.7940226

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0 100 200 300 400 500

SCALE: 1"=125'

NOTE:
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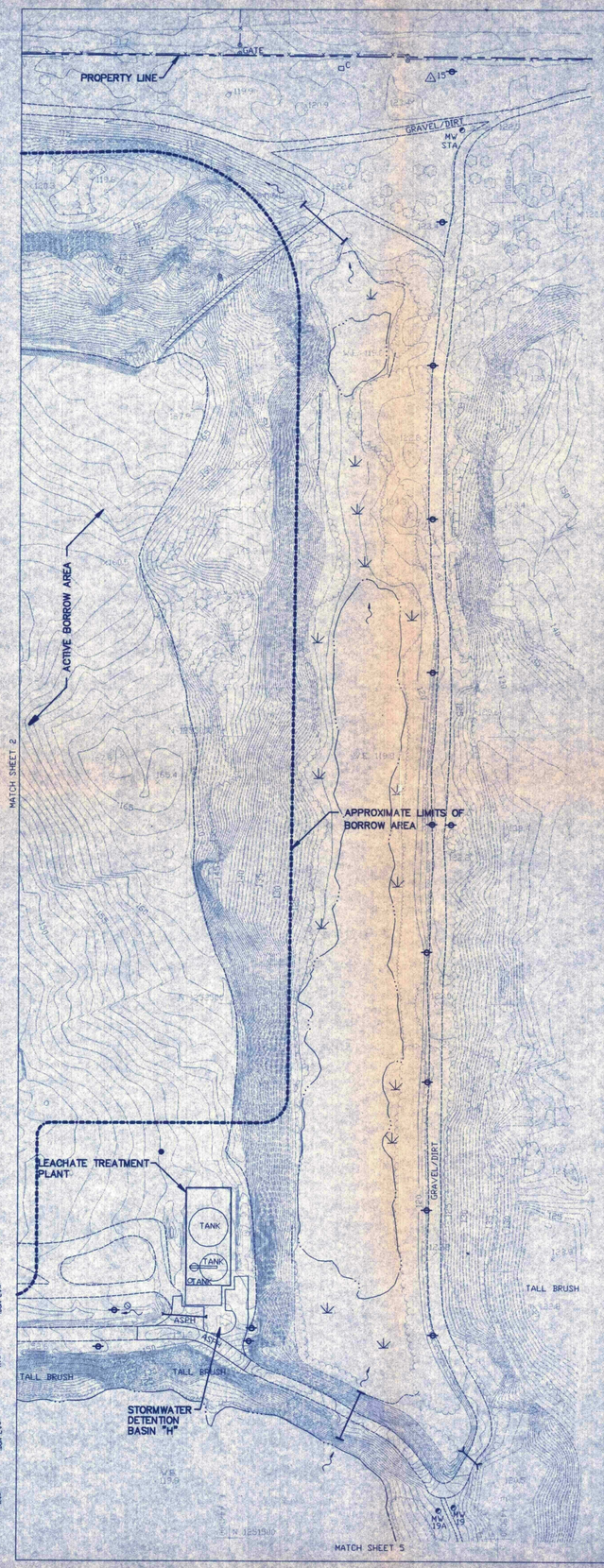
REV	DATE	DESCRIPTION	DES BY	APP BY

PROJECT NO.
DATE
DES BY
DRN BY
CHK BY
APP BY

SOUTHEAST COUNTY LANDFILL
EXISTING TOPOGRAPHY
PERMIT RENEWAL-APPENDIX D

Waste Management of North America, Inc.
SOUTHEAST REGION

SHEET 2 OF 5
DRAWING NO.



LEGEND

- BRUSHLINE
- CABLE MARKER
- CATCH BASIN
- DROP INLET
- FENCE
- FIRE HYDRANT
- GUARD RAIL
- LIGHT POLE
- MISCELLANEOUS POLE
- MONITORING WELL
- CENTERLINE OF EXIST. SWALE
- SUMP
- STORMWATER FILTRATION C/O
- MONUMENT
- POST
- RAILROAD TRACKS
- SIGN
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- DRAINAGE FLOW DIRECTION
- LEACHATE COLLECTION SYSTEM C/O

ABBREVIATIONS

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REV.	DATE	DESCRIPTION	DES BY	APP BY

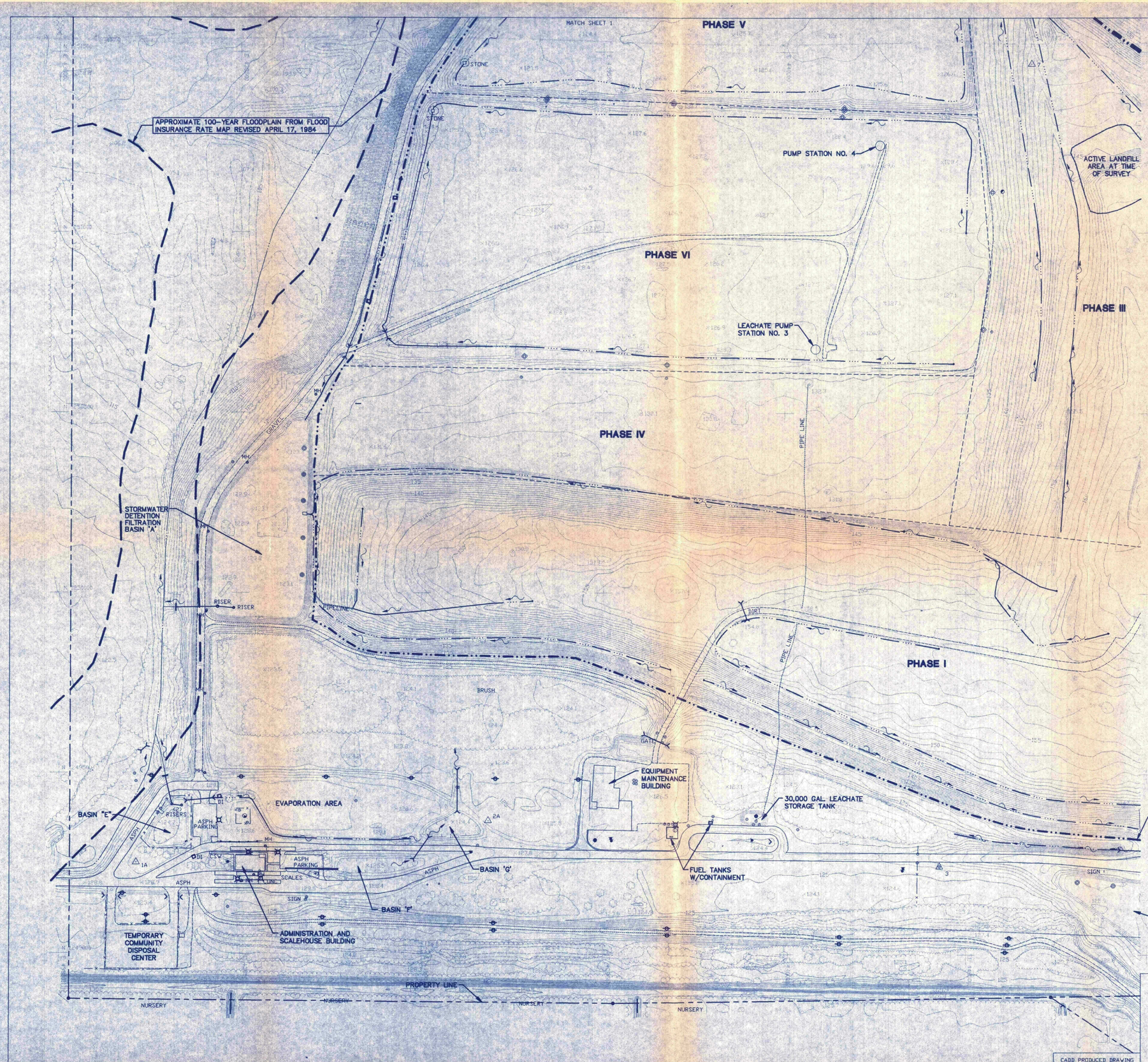
PROJECT NO
DATE
DES BY
DRN BY
CHK BY
APP BY

SOUTHEAST COUNTY LANDFILL
EXISTING TOPOGRAPHY
PERMIT RENEWAL-APPENDIX D

Waste Management of North America, Inc.
SOUTHEAST REGION

SHEET 3 OF 5
DRAWING NO

CADD PRODUCED DRAWING



ABBREVIATIONS

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LEGEND

BRUSHLINE	MONUMENT
CABLE MARKER	POST
CATCH BASIN	RAILROAD TRACKS
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CENTERLINE OF OF EXIST. SWALE	VALVE
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STORMWATER FILTRATION C/D	DRAINAGE FLOW DIRECTION
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REV	DATE	DESCRIPTION	DES BY	APP BY

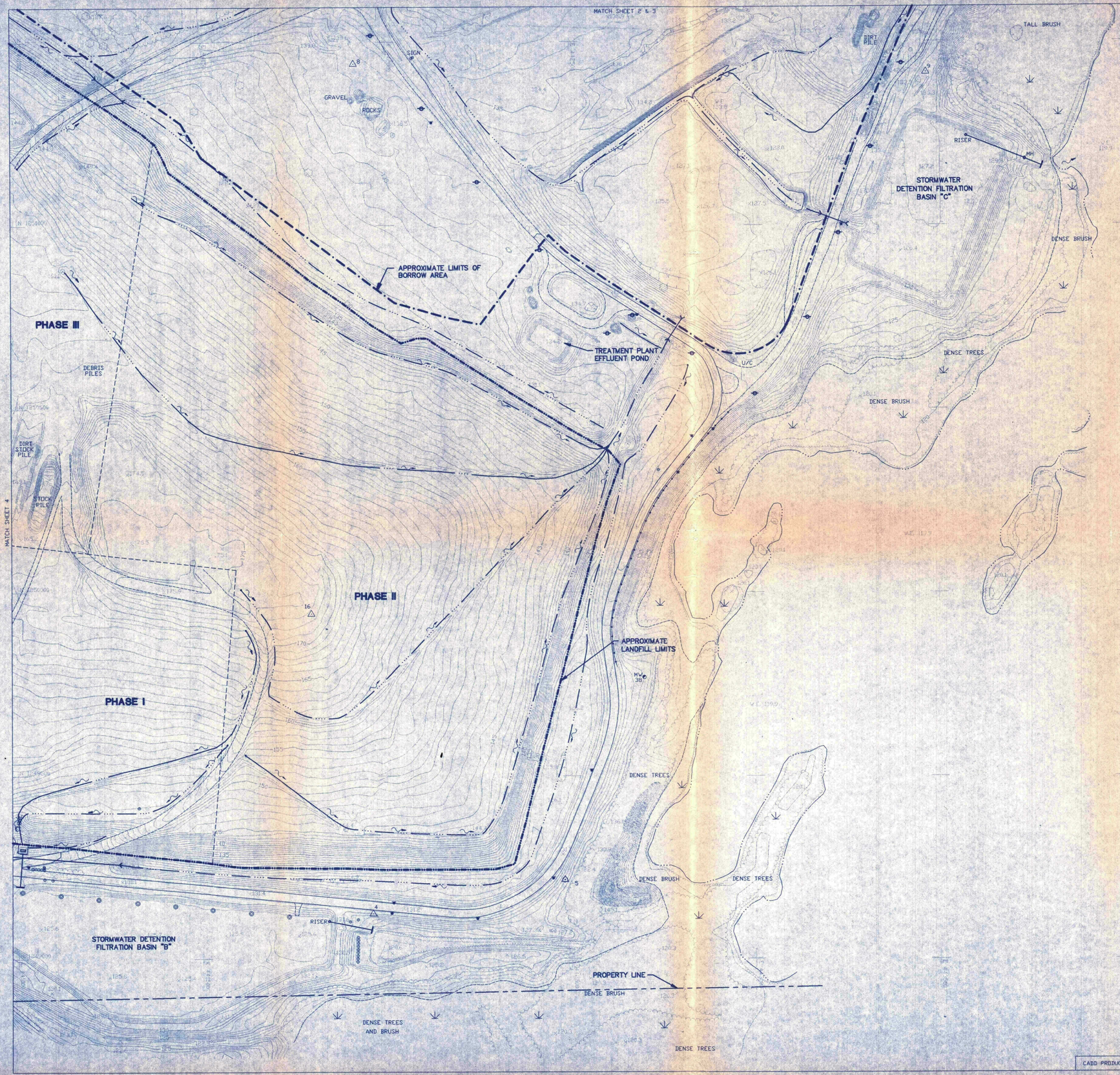
PROJECT NO
DATE
DES BY
DRN BY
CHK BY
APP BY

SOUTHEAST COUNTY LANDFILL
EXISTING TOPOGRAPHY
PERMIT RENEWAL-APPENDIX D

Waste Management of North America, Inc.
SOUTH/EAST REGION

SHEET 4 OF 5
DRAWING NO

CADD PRODUCED DRAWING



5

LEGEND

- BRUSHLINE
- CABLE MARKER
- CATCH BASIN
- DROP INLET
- FENCE
- FIRE HYDRANT
- GUARD RAIL
- LIGHT POLE
- MISCELLANEOUS POLE
- MONITORING WELL
- CENTERLINE OF DF EXIST. SWALE
- SUMP
- STORMWATER FILTRATION C/O
- MONUMENT
- POST
- RAILROAD TRACKS
- SIGN
- SWAMP
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ABBREVIATIONS

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CONTROL LEGEND

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0 100 200 300 400 500

SCALE: 1"=125'

N

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REV	DATE	DESCRIPTION	DES BY	APP BY

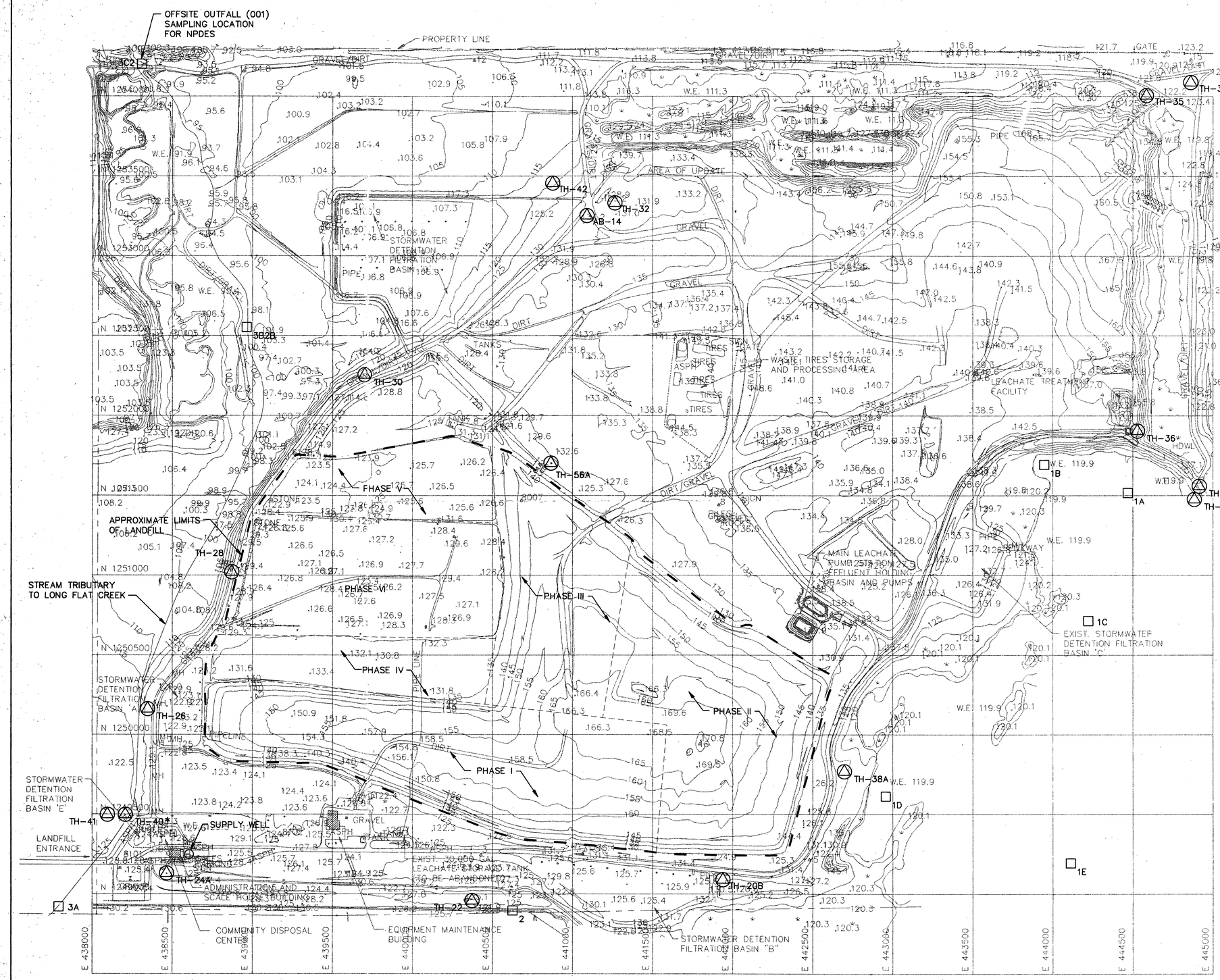
PROJECT NO
DATE
DES BY
DRN BY
CHK BY
APP BY

SOUTHEAST COUNTY LANDFILL
EXISTING TOPOGRAPHY
PERMIT RENEWAL-APPENDIX D

SHEET 5 OF 5
DRAWING NO

Waste Management of North America, Inc.
SOUTHEAST REGION

CADD PRODUCED DRAWING



N

300 0 300 600
SCALE IN FEET

WELL CONSTRUCTION CHARACTERISTIC, SELECTED WELLS

WELL NUMBER	ELEVATION AT LAND SURFACE	ELEVATION AT TOP OF PIPE	SCREEN INTERVAL	TOTAL DEPTH (BLS)
TH-19	127.32	129.94	146.0–151.0	151.0
TH-20B	129.99	133.76	9.0–19.0	19.0
TH-22	126.85	129.72	5.0–25.0	25.0
TH-24A	126.30	129.31	9.0–19.0	19.0
TH-28	128.75	132.08	26.0–31.0	31.0
TH-30	126.34	129.44	23.0–43.0	43.0
TH-36	150.74	154.43	33.0–48.0	48.0
TH-38A	128.69	132.75	14.0–19.0	19.0
TH-40	122.30	125.23	158.0–163.0	163.0
TH-56A	129.65	133.25	21.5–29.0	29.0

NOTE: ALL SCREENS .010" SLOT AND 2" PVC
ALL CASINS 2"ø PVC.

LEGEND

TH-01 EXISTING MONITORING WELL LOCATION AND DESIGNATION

1E EXISTING SURFACE WATER LOCATION AND DESIGNATION

* FLORIDAN AQUIFER MONITOR WELL

REV	DATE	DESCRIPTION	CK. BY
1	11/14/94	REVISED WELL LOCATIONS	LER

DRAWING TITLE
EXISTING MONITORING WELL LOCATIONS

PROJECT TITLE
SOUTHEAST COUNTY LANDFILL OPERATING SEQUENCE PERMIT RENEWAL-APPENDIX I

CLIENT
HILLSBOROUGH COUNTY DEPARTMENT OF SOLID WASTE TAMPA, FLORIDA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3012 U.S. HWY. 301 NORTH, SUITE 700, TAMPA, FL 33619
PH (813) 621-0080 FAX NO. (813) 623-9757

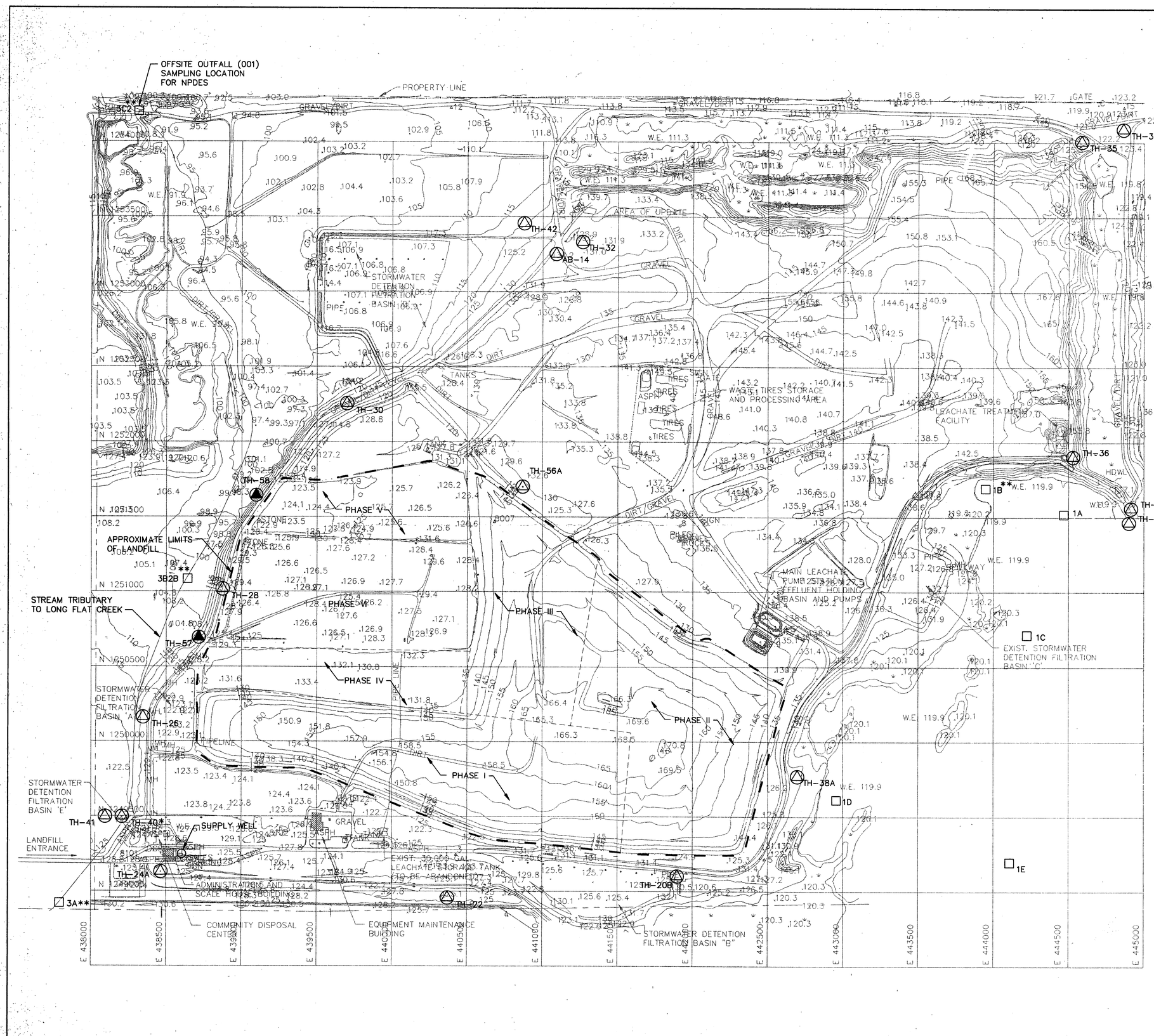
PROJ. NO. 0990018.34 | DWG. BY: BLJ/VD | O/A RVW BY: SMH | CHK. BY: LER | APP. BY: RBG

CADD FILE: EMWELL

DATE: AUGUST 22, 1994

SCALE: AS SHOWN

DRAWING NO. 1 of 2



N

300 0 300 600
SCALE IN FEET

LEGEND

TH-01	EXISTING MONITORING WELL LOCATION AND DESIGNATION
1E	SURFACE WATER MONITORING SITE LOCATION
TH-01	PROPOSED WATER QUALITY MONITORING WELL AND DESIGNATION
*	FLORIDAN AQUIFER MONITOR WELL
**	PROPOSED STAFF GAUGE LOCATION

7

REV.	DATE	DESCRIPTION	CK. BY
1	11/14/94	REVISED WELLS AND GAUGES	LER
2			
3			
4			
5			
6			

DRAWING TITLE
PROPOSED MONITORING WELL LOCATIONS

PROJECT TITLE
SOUTHEAST COUNTY LANDFILL
OPERATING SEQUENCE
PERMIT RENEWAL-APPENDIX I

CLIENT
HILLSBOROUGH COUNTY
DEPARTMENT OF SOLID WASTE
TAMPA, FLORIDA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3012 US. HWY. 301 NORTH, SUITE 700, TAMPA, FL 33619
PH (813) 621-0090 FAX NO. (813) 623-6757

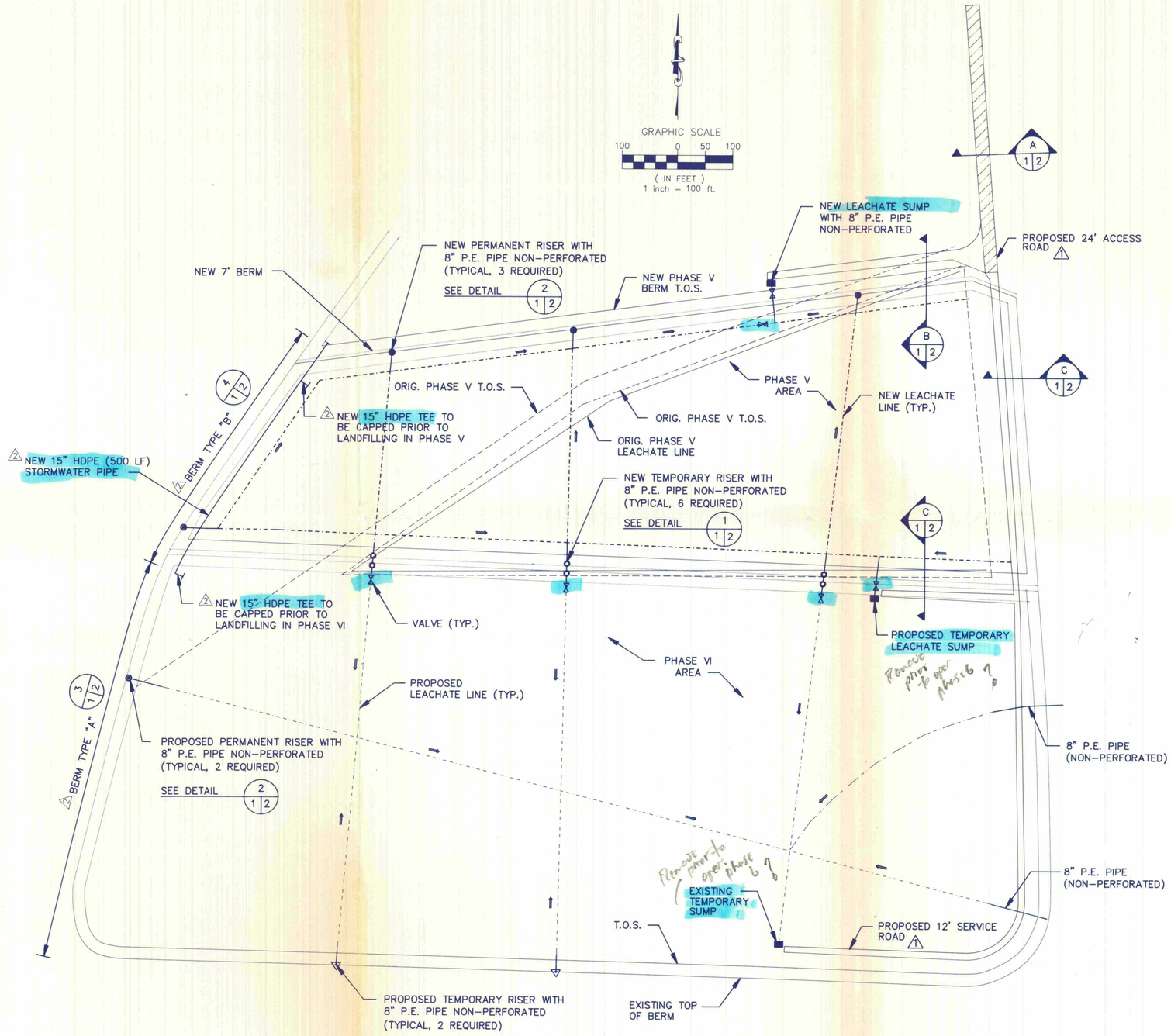
PROJ. NO. 0990018.34 | DWN. BY BLJ\VD | Q/A RVW BY SMH | CHK. BY LER | APP. BY RBG | DSN. BY —

CADD FILE: PMWELL

DATE: AUGUST 22, 1994

SCALE: AS SHOWN

DRAWING NO. 2 of 2



SUMMARY OF PROPOSED MODIFICATIONS

1. EXTEND PHASE V NORTHERN BOUNDARY TO THE NORTH.
2. ADD NEW LEACHATE LATERALS IN PHASE V.
3. ADD NEW RISER CLEAN-OUTS IN PHASE V.
4. RELOCATE PHASE V SUMP.
5. ADD DRAINAGE PIPE BETWEEN PHASE V & VI AND IN PHASE V TO DISCHARGE STORMWATER PRIOR TO FILLING.

NOTE:

1. FOR CONSTRUCTION DETAILS SEE CDM PHASE V & VI DRAWINGS DATED 4-19-89 AND TOMASINO & ASSOCIATES DRAWINGS DATED 1-15-90.

RECEIVED
AUG 27 1990
WASTE MANAGEMENT

(8)

CERTIFICATE OF AUTHORIZATION NO. 8629 STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER

Robert L. Gunsalus 8/24/90

NO.	REVISION	DATE
1	Added Proposed Service Road and Sections A, B, and C. Moved Sections and Details to Dwg No. 2.	6/90
2	Modified Stormwater Discharge System.	8/90
3		
4		

SHEET TITLE: PLAN

PROJECT TITLE: SOUTHEAST LANDFILL PROPOSED MODIFICATIONS TO PHASE V AND VI

HILLSBOROUGH COUNTY DEPARTMENT OF SOLID WASTE TAMPA, FLORIDA

SCS ENGINEERS
ENVIRONMENTAL CONSULTANT
3012 U.S. HWY. 301 N. SUITE 700
TAMPA, FLORIDA 33619
(813) 621-0080

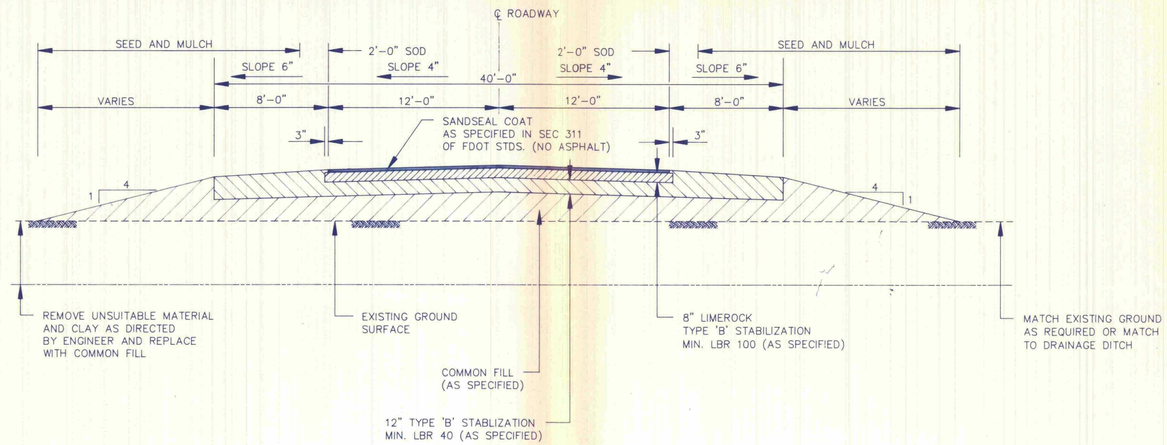
PROJ. NO. 0985027.15 | DWN. BY: VDR | Q/A RVW BY: GAF
DSN. BY: RBG | CHK. BY: LER | APP. BY: RBG

CAD FILE: PH5PLAN

DATE: 04/18/90

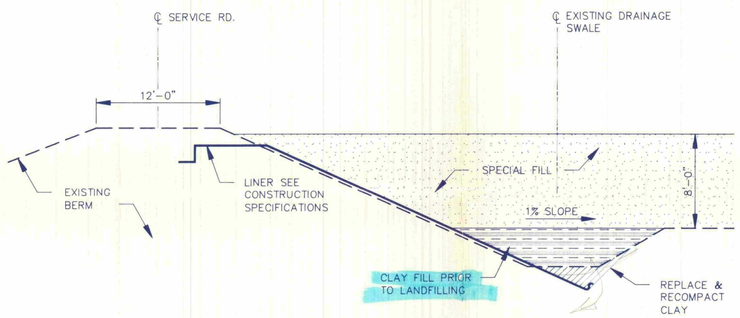
SCALE: 1"=100'

DRAWING NO. 1 of 2



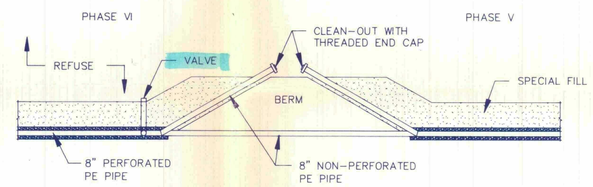
ACCESS ROADWAY CROSS SECTION (A 1|2)

NOT TO SCALE



TYPE "A" BERM (3 1|2)

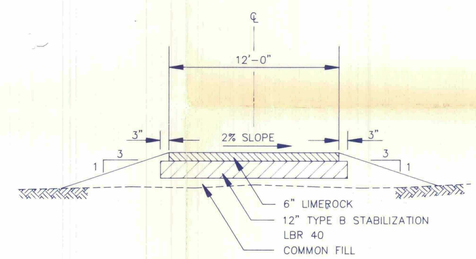
NOT TO SCALE



TYPICAL TEMPORARY RISER CLEAN-OUT DETAIL (1 1|2)

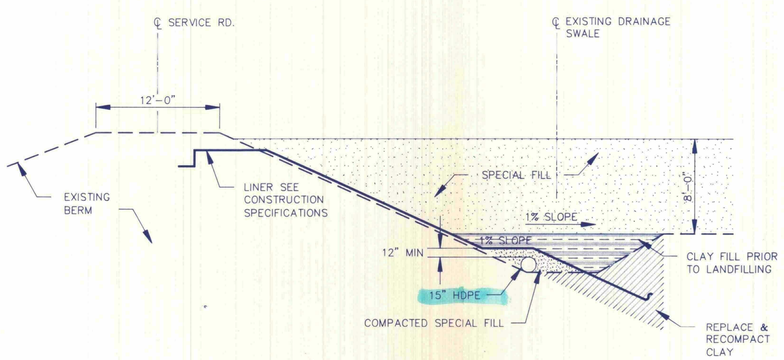
NOT TO SCALE

NOTE:
SYNTHETIC LINER NOT SHOWN FOR CLARITY.
SEE CDM PHASE V AND VI DRAWINGS
DETAILS "E" AND "H" SHEET NO. 4.



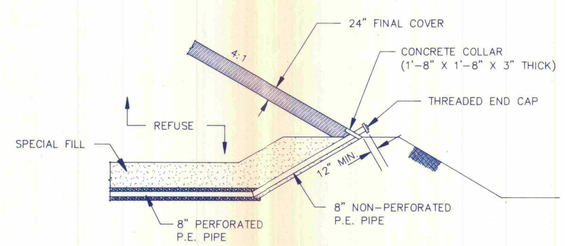
TYPICAL PERIMETER ROAD CROSS SECTION (B 1|2)

NOT TO SCALE



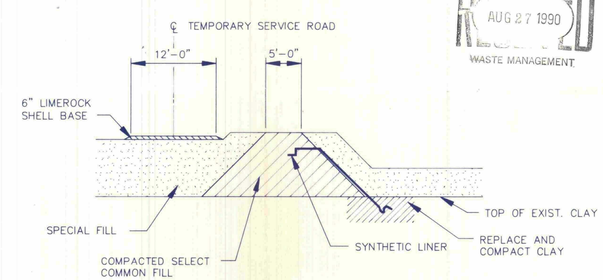
TYPE "B" BERM (4 1|2)

NOT TO SCALE



TYPICAL PERMANENT RISER CLEAN-OUT DETAIL (2 1|2)

NOT TO SCALE



INTERIOR LANDFILL BERM SECTION (C 1|2)

NOT TO SCALE

RECEIVED
AUG 27 1990
WASTE MANAGEMENT

GENERAL NOTE:
SECTIONS A, B AND C WERE COMPILED FROM
CONSTRUCTION-PHASE V AND VI DRAWINGS
BY CDM, SHEETS 4 AND 5, DATED APRIL 1989.

(9)

REGISTERED PROFESSIONAL ENGINEER
ROBERT B. GARDNER
STATE OF FLORIDA
No. 33619
Robert B. Gardner 8/24/90

NO.	REVISION	DATE
2	Modified Stormwater Discharge System. Added Details 3 and 4.	8/90

SHEET TITLE: SECTIONS AND DETAILS

PROJECT TITLE: SOUTHEAST LANDFILL PROPOSED MODIFICATIONS TO PHASE V AND VI

HILLSBOROUGH COUNTY
DEPARTMENT OF SOLID WASTE
TAMPA, FLORIDA

SCS ENGINEERS
ENVIRONMENTAL CONSULTANT
3002 U.S. HWY. 301 N. SUITE 700
TAMPA, FLORIDA 33619
(813) 621-0080

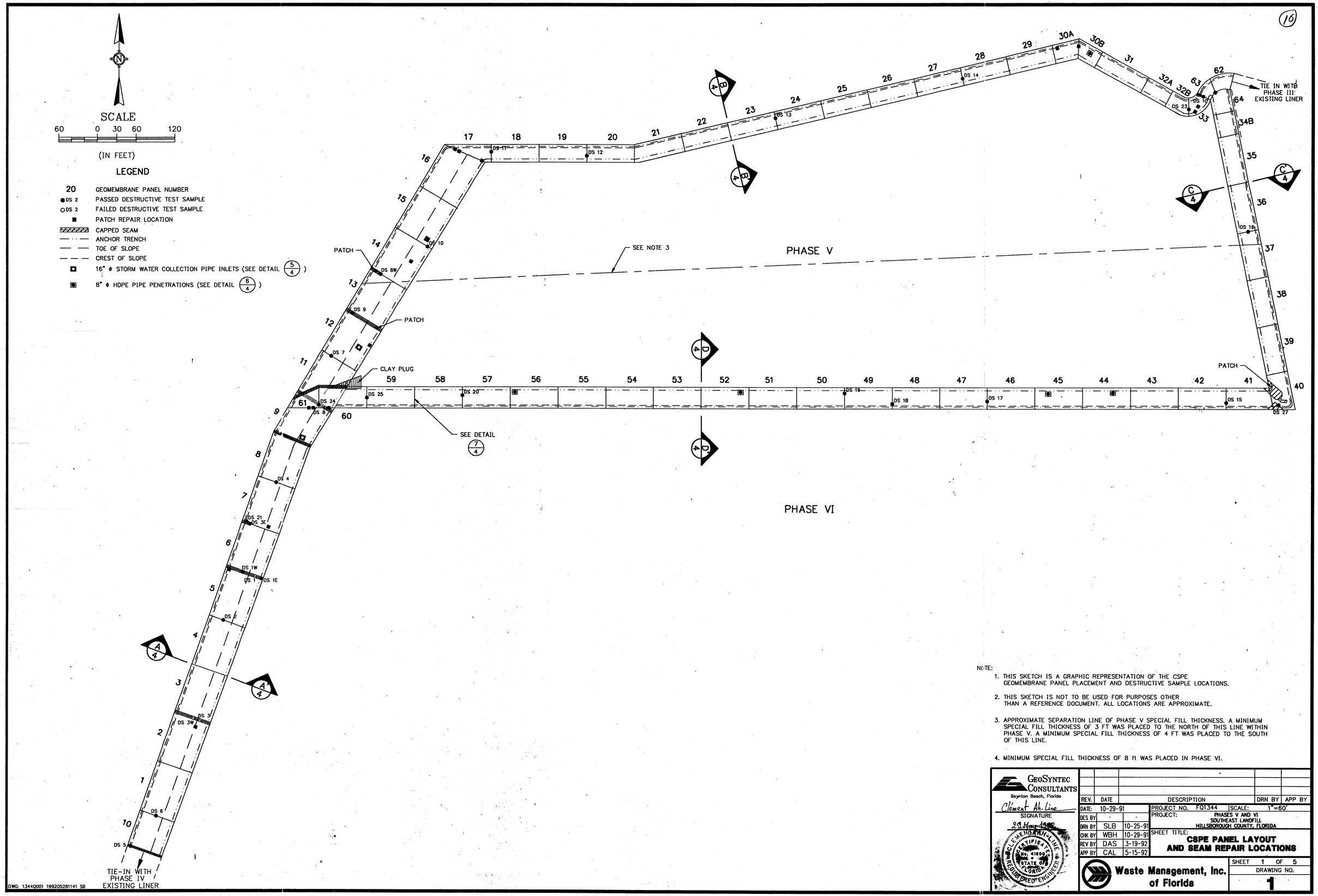
PROJ. NO. 0985027.15 | DWN. BY: VDR | Q/A RVW BY: GAF
DSN. BY: RBG | CHK. BY: LER | APP. BY: RBG

CAD FILE: PH5DET

DATE: JUNE 1990

SCALE: NOT TO SCALE

DRAWING NO. 2 of 2



NOTE:

1. THIS SKETCH IS A GRAPHIC REPRESENTATION OF THE CSPE GEOMEMBRANE PANEL PLACEMENT AND DESTRUCTIVE SAMPLE LOCATIONS.
2. THIS SKETCH IS NOT TO BE USED FOR PURPOSES OTHER THAN A REFERENCE DOCUMENT. ALL LOCATIONS ARE APPROXIMATE.
3. APPROXIMATE SEPARATION LINE OF PHASE V SPECIAL FILL THICKNESS. A MINIMUM SPECIAL FILL THICKNESS OF 3 FT WAS PLACED TO THE NORTH OF THIS LINE WITHIN PHASE V. A MINIMUM SPECIAL FILL THICKNESS OF 4 FT WAS PLACED TO THE SOUTH OF THIS LINE.
4. MINIMUM SPECIAL FILL THICKNESS OF 8 ft WAS PLACED IN PHASE VI.

GEOSYNTEC CONSULTANTS
Boynton Beach, Florida

Clement Ah-Line
SIGNATURE
29 November 1992

CLEMENT ALAN LINE
CERTIFICATE No. 41800
STATE OF FLORIDA
REGISTERED ENGINEER

REV.	DATE	DESCRIPTION	DRN BY	APP BY

DATE:	10-29-91	
DES BY	-	-
DRN BY	SLB	10-25-91
CHK BY	WBH	10-29-91
REV BY	DAS	3-19-92
APP BY	CAL	5-15-92

PROJECT NO. FQ1344 SCALE: 1"=60'
PROJECT: PHASES V AND VI
SOUTHEAST LANDFILL
HILLSBOROUGH COUNTY, FLORIDA

SHEET TITLE:
CSPE PANEL LAYOUT AND SEAM REPAIR LOCATIONS

Waste Management, Inc. of Florida

SHEET 1 OF 5
DRAWING NO.
1

(11)

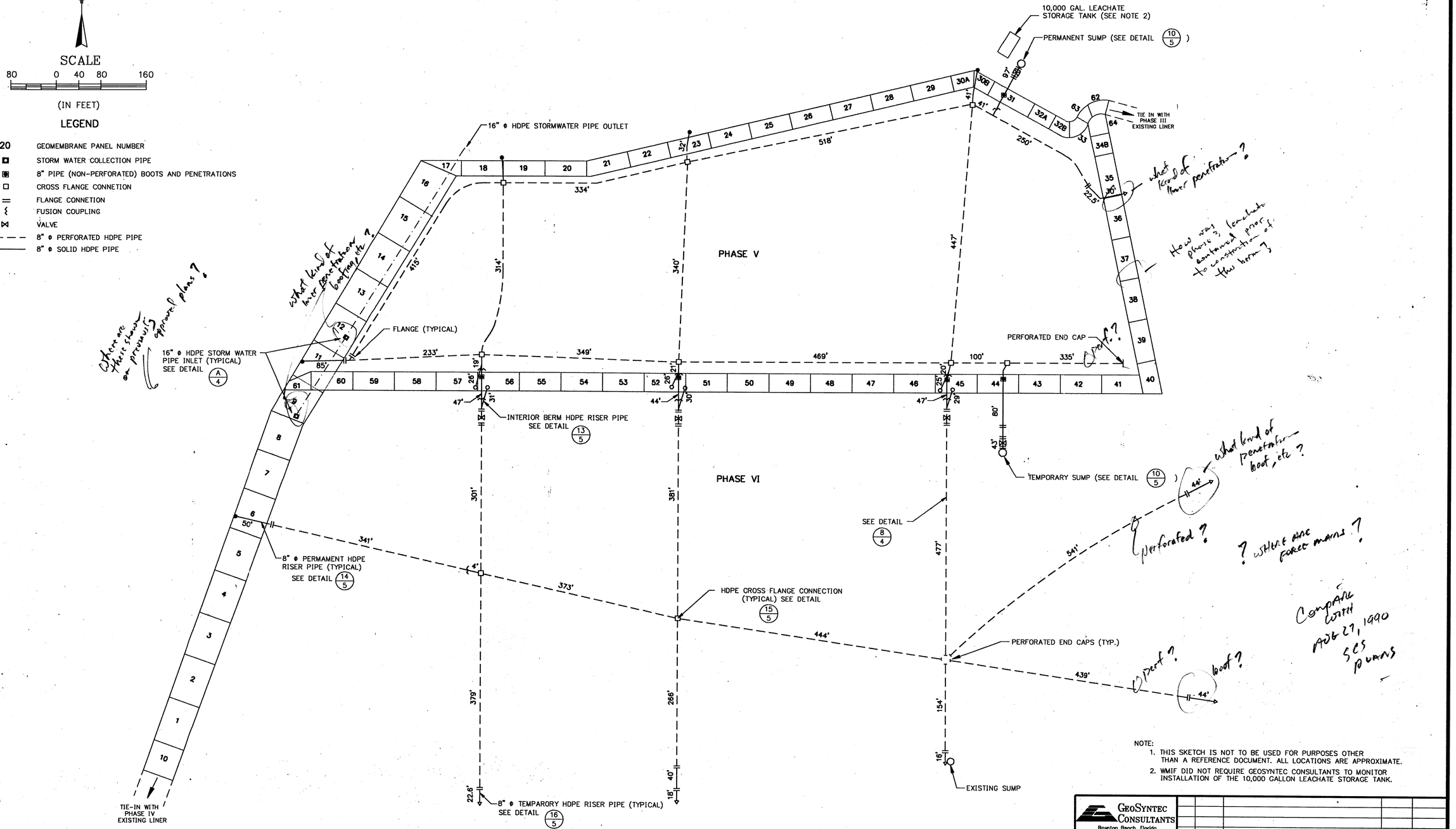
SCALE

80 0 40 80 160

(IN FEET)

LEGEND

- 20 GEOMEMBRANE PANEL NUMBER
- STORM WATER COLLECTION PIPE
- 8" PIPE (NON-PERFORATED) BOOTS AND PENETRATIONS
- CROSS FLANGE CONNETION
- FLANGE CONNETION
- FUSION COUPLING
- VALVE
- 8" ϕ PERFORATED HDPE PIPE
- 8" ϕ SOLID HDPE PIPE



NOTE:

1. THIS SKETCH IS NOT TO BE USED FOR PURPOSES OTHER THAN A REFERENCE DOCUMENT. ALL LOCATIONS ARE APPROXIMATE.
2. WMIF DID NOT REQUIRE GEOSYNTEC CONSULTANTS TO MONITOR INSTALLATION OF THE 10,000 GALLON LEACHATE STORAGE TANK.

GEOSYNTEC CONSULTANTS
Boynton Beach, Florida

Clement Ah-Line
SIGNATURE
23 May 1992
CLEMENT AH-LINE
CERTIFICATE No. 41806
STATE OF FLORIDA
REGISTERED ENGINEER

REV.	DATE	DESCRIPTION	DRN BY	APP BY

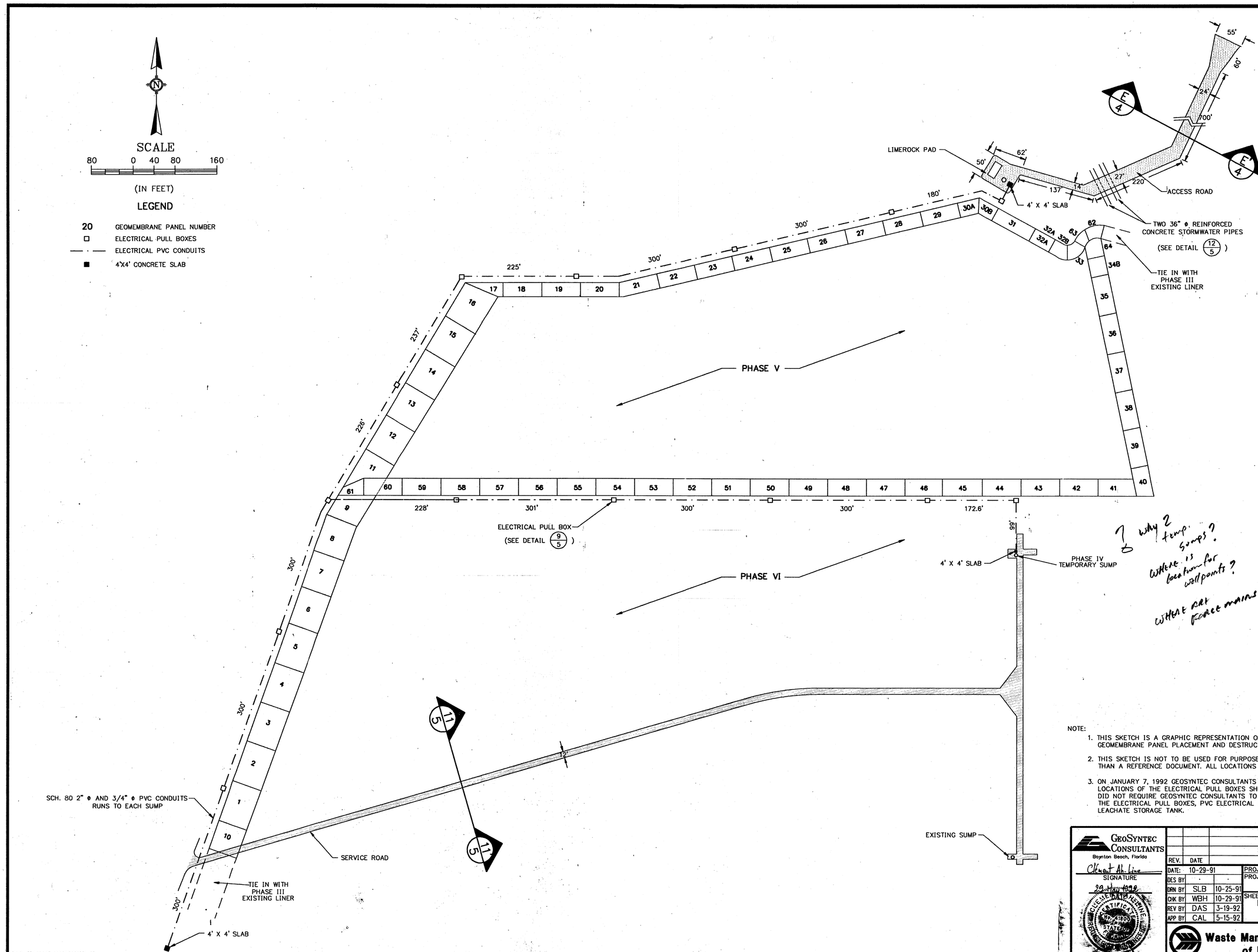
DATE:	10-29-91		PROJECT NO. FQ1344	SCALE: 1"=80'
DES BY			PROJECT: PHASES V AND VI SOUTHEAST LANDFILL HILLSBOROUGH COUNTY, FLORIDA	
DRN BY	SLB	10-25-91		
CHK BY	WBH	10-29-91	SHEET TITLE: **LEACHATE MANAGEMENT SYSTEM LAYOUT**	
REV BY	DAS	3-19-92		
APP BY	CAL	5-15-92		

Waste Management, Inc. of Florida

SHEET 2 OF 5

DRAWING NO. **2**

DWG: 1344Q002 199205281147 SB



? why 2 temp. sumps?
where is location for wellpoints?
where are force mains?

NOTE:

1. THIS SKETCH IS A GRAPHIC REPRESENTATION OF THE CSPE GEOMEMBRANE PANEL PLACEMENT AND DESTRUCTIVE SAMPLE LOCATIONS.
2. THIS SKETCH IS NOT TO BE USED FOR PURPOSES OTHER THAN A REFERENCE DOCUMENT. ALL LOCATIONS ARE APPROXIMATE.
3. ON JANUARY 7, 1992 GEOSYNTEC CONSULTANTS VERIFIED THE APPROXIMATE LOCATIONS OF THE ELECTRICAL PULL BOXES SHOWN ON THIS DRAWING. WMIF DID NOT REQUIRE GEOSYNTEC CONSULTANTS TO MONITOR INSTALLATION OF THE ELECTRICAL PULL BOXES, PVC ELECTRICAL CONDUIT, OR THE LEACHATE STORAGE TANK.

GEOSYNTEC CONSULTANTS
Boynton Beach, Florida

SIGNATURE

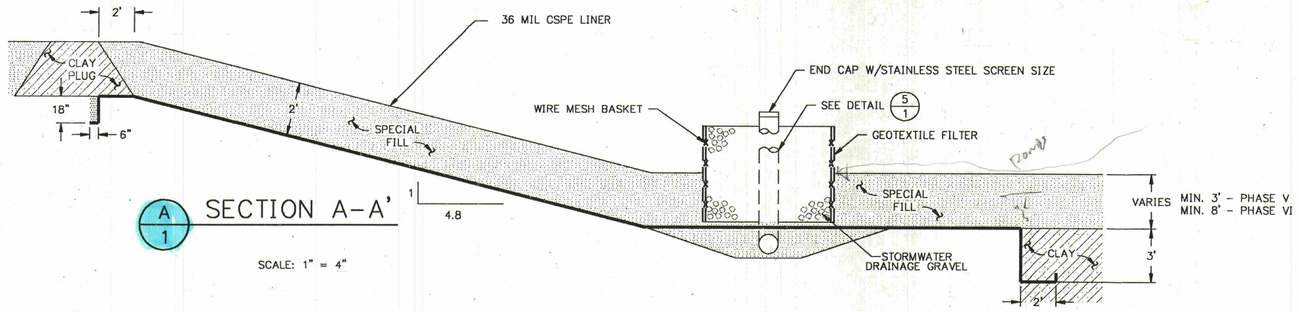
REV.	DATE	DESCRIPTION	DRN BY	APP BY

DATE:	10-29-91	
DES BY	-	-
DRN BY	SLB	10-25-91
CHK BY	WBH	10-29-91
REV BY	DAS	3-19-92
APP BY	CAL	5-15-92

PROJECT NO. F01344 SCALE: 1"=80'
PROJECT: PHASES V AND VI SOUTHEAST LANDFILL HILLSBOROUGH COUNTY, FLORIDA
SHEET TITLE: **ELECTRICAL PULLBOX, CONDUIT, AND ACCESS ROAD LAYOUT**

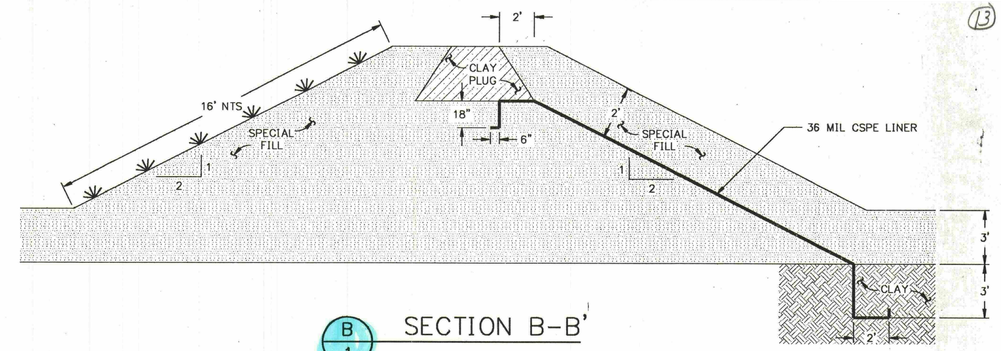
Waste Management, Inc. of Florida

SHEET 3 OF 5
DRAWING NO. **3**



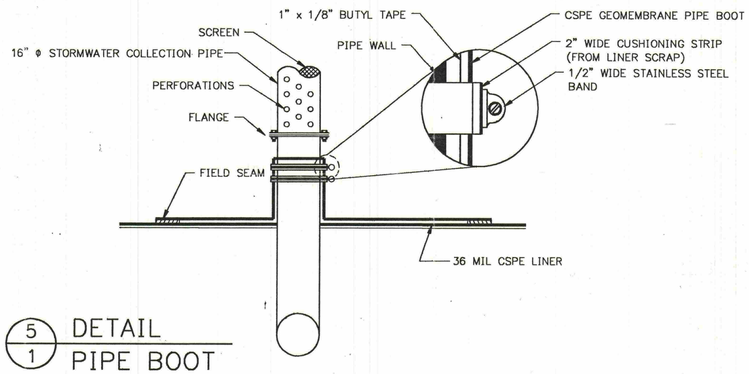
A/1 SECTION A-A'

SCALE: 1" = 4"

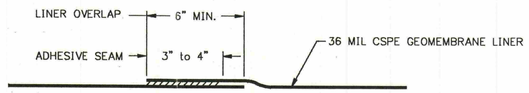


B/1 SECTION B-B'

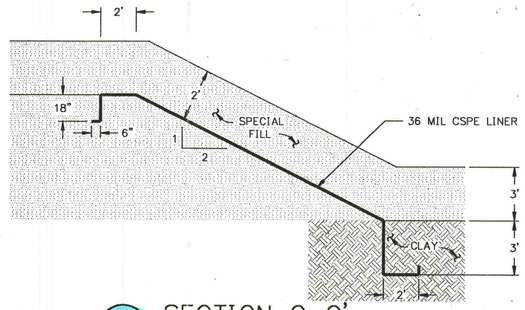
SCALE: 1" = 4"



5/1 DETAIL
PIPE BOOT
NOT TO SCALE

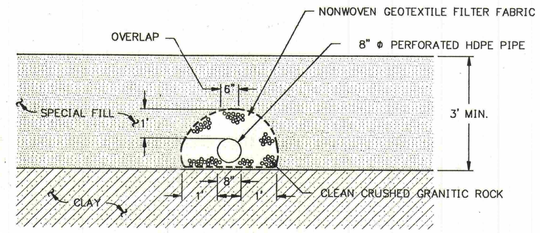


7/1 DETAIL
TYPICAL FIELD SEAM DETAIL
NOT TO SCALE

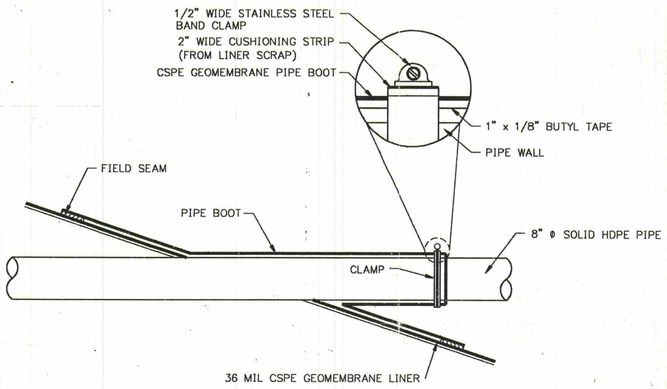


C/1 SECTION C-C'

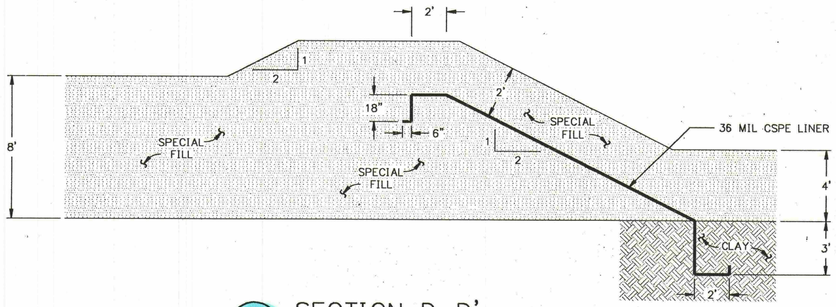
SCALE: 1" = 4"



8/1 DETAIL
LEACHATE COLLECTION SYSTEM
SCALE: 1" = 4"

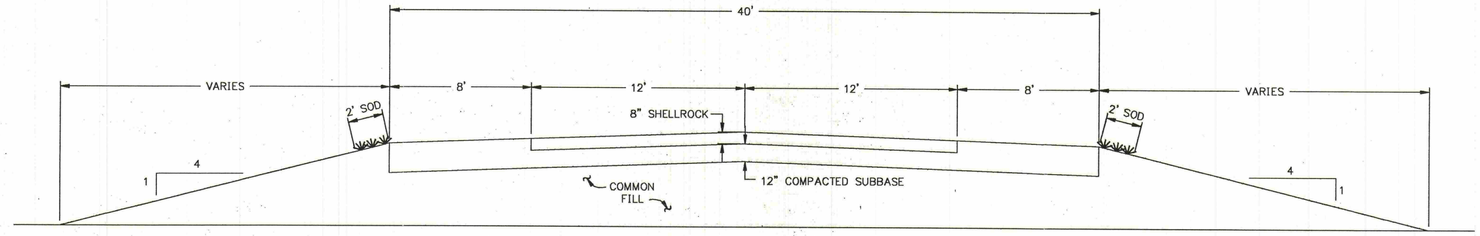


6/1 DETAIL
PIPE BOOT
NOT TO SCALE



D/1 SECTION D-D'

SCALE: 1" = 4"



NOTE: TESTING OF THE 12" THICK COMPACTED SUBBASE LAYER AND THE 8" THICK SHELLROCK CONDUCTED BY OTHERS

E/1 DETAIL
ACCESS ROADWAY CROSS SECTION E-E'
SCALE: 1" = 4"

DWG: 1344Q004 199205280828 SB

GEOSYNTEC CONSULTANTS
Boynton Beach, Florida

Clement Ah-Line
SIGNATURE
29 May 1992
DATE

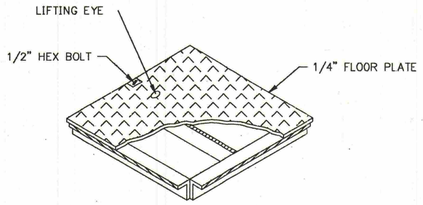
CLEMENT AH-LINE CERTIFICATE No. 41800 STATE OF FLORIDA REGISTERED ENGINEER

REV.	DATE	DESCRIPTION	DRN BY	APP BY

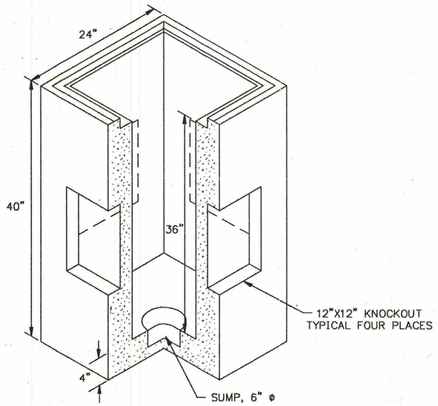
DATE: 10-29-91	PROJECT NO. FQ1344	SCALE: AS SHOWN
DES BY		PROJECT: PHASES V AND VI SOUTHEAST LANDFILL HILLSBOROUGH COUNTY, FLORIDA
DRN BY SLB 10-25-91		
CHK BY WBH 10-29-91		SHEET TITLE: **DETAILS I**
REV BY DAS 3-19-92		
APP BY CAL 5-15-92		

Waste Management, Inc. of Florida

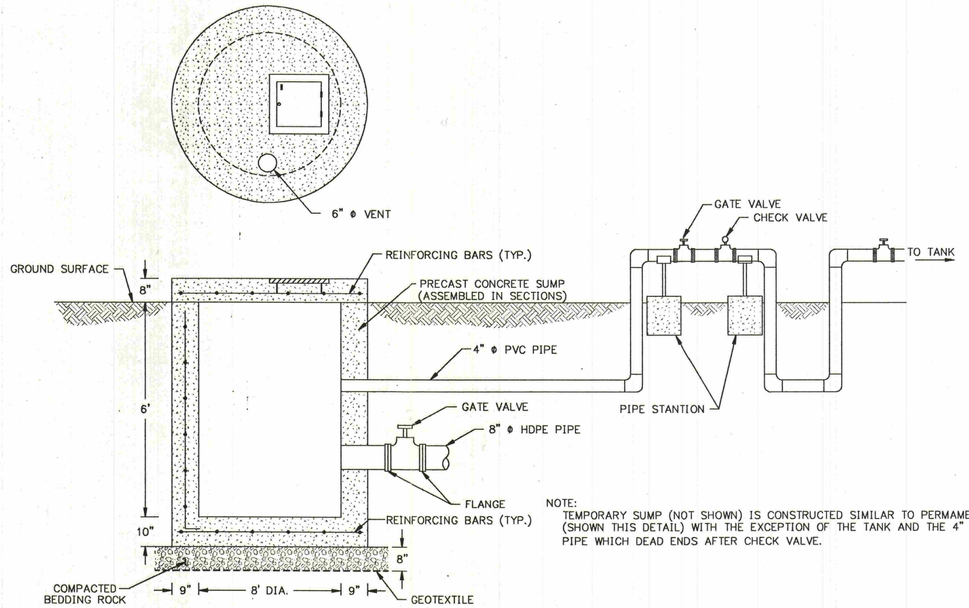
SHEET 4 OF 5
DRAWING NO. 4



STEEL TRAFFIC COVER

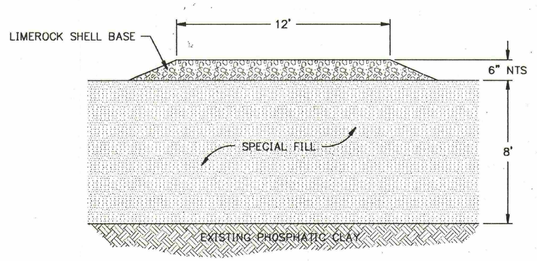


9/3 DETAIL
TYPICAL ELECTRICAL PULL BOX
SCALE: 1" = 1'

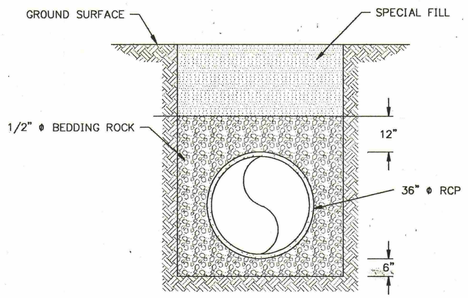


NOTE:
TEMPORARY SUMP (NOT SHOWN) IS CONSTRUCTED SIMILAR TO PERMAMENT SUMP (SHOWN THIS DETAIL) WITH THE EXCEPTION OF THE TANK AND THE 4" ϕ PVC PIPE WHICH DEAD ENDS AFTER CHECK VALVE.

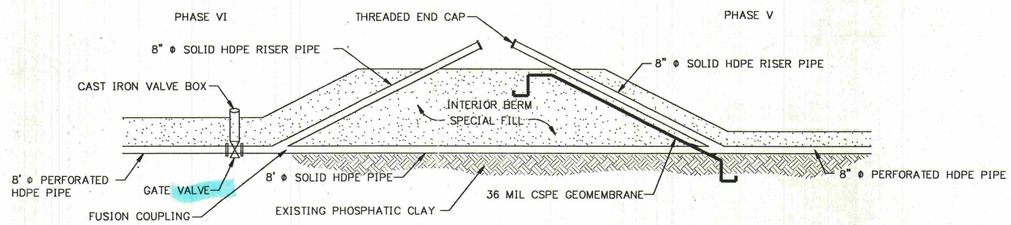
10/2 DETAIL
TYPICAL SUMP
SCALE: 1" = 2'



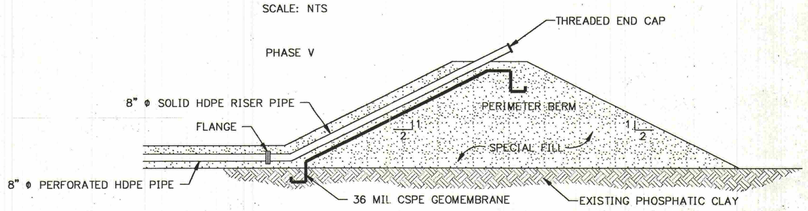
11/3 SECTION
TEMPORARY SERVICE ROAD
SCALE: 1" = 4'



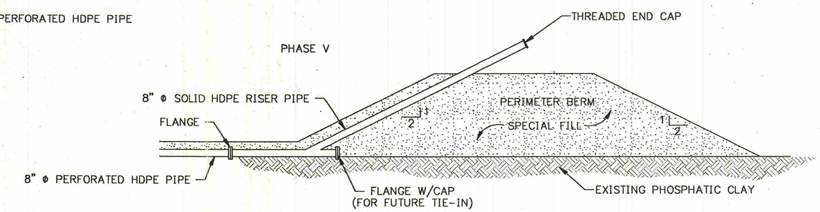
12/2 SECTION
REINFORCED CONCRETE STORMWATER PIPE
SCALE: 1" = 2'



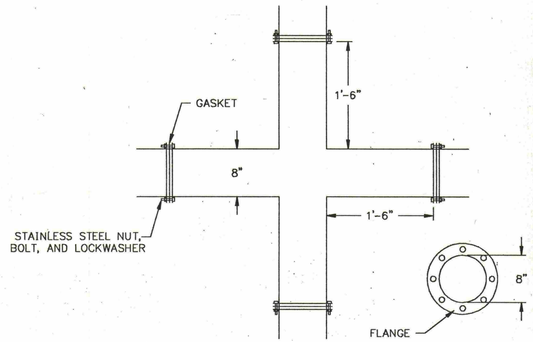
13/2 DETAIL
TYPICAL INTERIOR BERM RISER
SCALE: NTS



14/2 DETAIL
TYPICAL PERMANENT RISER
SCALE: NTS



16/2 DETAIL
TYPICAL TEMPORARY RISER
SCALE: NTS



15/2 DETAIL
TYPICAL CROSS FLANGE
SCALE: 1" = 1'

GeoSyntec Consultants
Boynton Beach, Florida

REV.	DATE	DESCRIPTION	DRN BY	APP BY

SIGNATURE: Clement Ah-Line
DATE: 29 May 1992
CLEMENT AH-LINE CERTIFICATE No. 41800 STATE OF FLORIDA REGISTERED ENGINEER

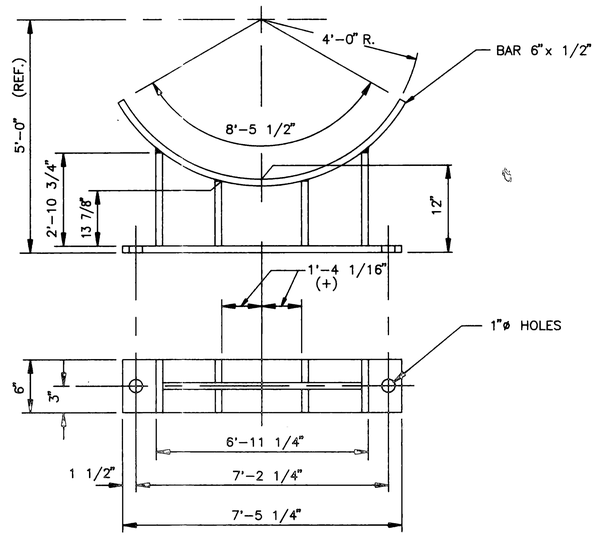
DATE:	10-29-91	
DES BY	-	-
DRN BY	SLB	3-9-92
CHK BY	DAS	5-13-92
REV BY	DAS	5-14-92
APP BY	CAL	5-15-92

PROJECT NO. FQ1344 SCALE: AS SHOWN
PROJECT: PHASES V AND VI
SOUTHEAST LANDFILL
HILLSBOROUGH COUNTY, FLORIDA
SHEET TITLE: **DETAILS II**

Waste Management, Inc. of Florida

SHEET 5 OF 5
DRAWING NO. 5

DWG: 1344Q005 1992052808 33 SB

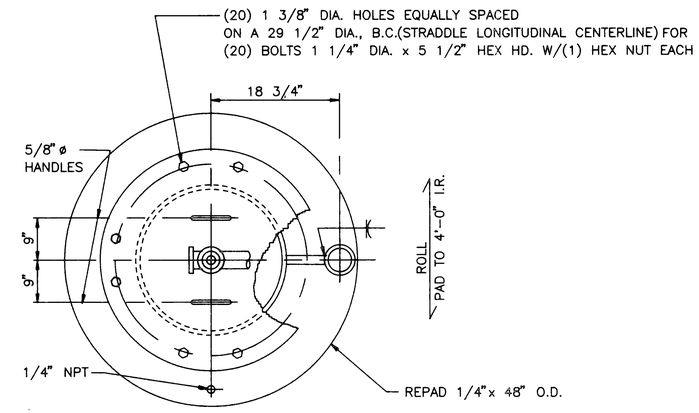


SADDLE DETAIL

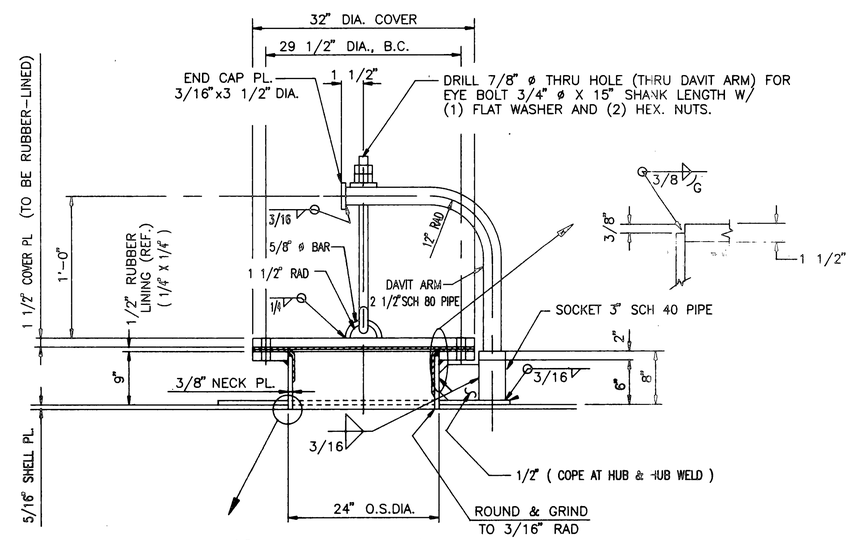
(3) REQ'D.
SHIP LOOSE

NOTE;

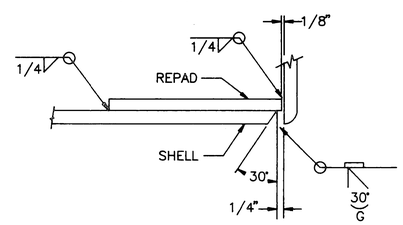
ALL PLATE 3/8"
EXCEPT 1/2" ROLLED BAR



PLAN VIEW



ONE REQ'D. GASKET 1/8" x 32" O.D. x 24 1/8" I.D.
W/(20) 1 3/8" DIA. HOLES ON 29 1/2" DIA., B.C.



ELEVATION

NOTE: SEE DWG. D-90081-01
FOR TRUE DAVIT ORIENTATION

("AS BUILT" JUNE 22, 1992)

DATE:	11/19/90	11/20/90	8/29	9/25/91	6/22/92
CUST:	3 FSP	4 FSP			8P
SHOP:				3P	
FIELD:					
OTHER:					

(4-MILES 3P)

MATERIAL OF CONSTRUCTION (UNLESS OTHERWISE NOTED)	
PLATE:	A36
SHAPES:	A36
PIPE:	A53B
FLANGES:	A36
GASKETS:	RUBBER (RED)
BOLTING:	A307B

WORK WITH DWG. D-90081-01

M.W. TO BE PAINTED & LINED AS SHOWN ON D-90081-01

SADDLES PAINT: BLAST SSPC-SP6. ONE (1) COAT OF KOPPERS PUG PRIMER 3 TO 4 MIL DFT

STATUS	BY	DATE	REV.	DESCRIPTION	BY CHK.	DATE
RELEASED TO FIELD						
RELEASED FOR FABRICATION	C.T.	9/25/91				
APPROVAL RECEIVED	C.T.	9/24/91				
ISSUED FOR APPROVAL	C.T.	11/19/90				
CHECKED	ROW	11/19/90				
DRAWING	C.T.	11/19/90	1	ADDED GASKET	C.T. ROW	9/24/91

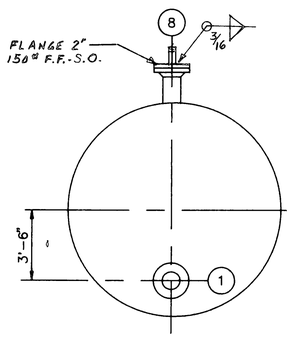
TAMPA TANK & WELDING, INC.
TAMPA, FLORIDA

ARRANGEMENT AND DETAILS OF
24" MANWAY W/ DAVIT & SADDLES
CUSTOMER: SOUTHEAST LANDFILL
LITHIA, FLORIDA

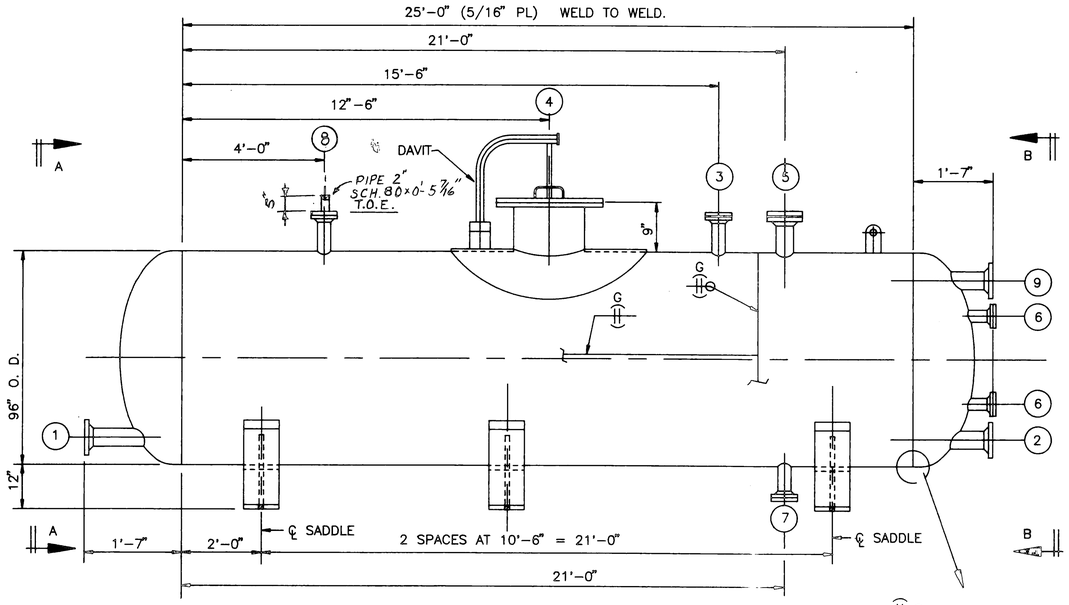
CUSTOMER'S P.O. NO.:	066891
JOB NUMBER	
CONTRACT NUMBER	90081
SHEET NO.	OF
DRAWING NO.: D- 90081-02	REV. 1

NOZZLE SCHEDULE (16)

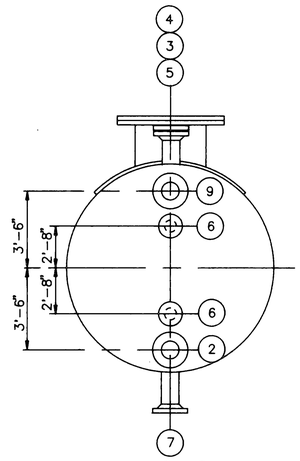
MARK	QUANTITY	PIPE SIZE & SCHEDULE	FLANGE & FACING	COMMENTS
1	ONE	4" SCH. 160	150# FFSO	OUTLET TO PUMP.
2	ONE	4" SCH. 160	150# FFSO	DISCHARGE
3	ONE	2" SCH. 160	150#F.FSO	W/ BLIND FLANGE, BOLTS AND GASKET
4	ONE	24"-3/8"PL.	1 1/2"PL	MANWAY D-90081-02
5	ONE	6" SCH. 120	150#F.FSO	W/ BLIND FLANGE, BOLTS AND GASKET
6	2	2" SCH. 80	150#F.FSO	S.G. CONN. W/ BLIND FLANGE, BOLTS AND GASKET
7	ONE	2" SCH. 160	150#F.FSO	DRAIN W/ B.F., BOLTS AND GASKET
8	ONE	2" SCH. 160	150#FFSO	VENT (SEE DETAIL)
9	ONE	4" SCH. 160	150# FFSO	SPARE W/ B.F. BOLTS AND GASKET



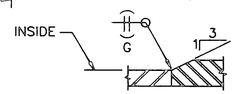
VIEW "A-A"

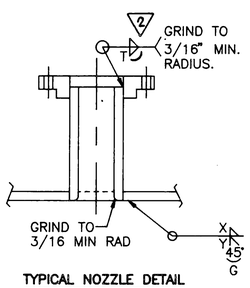


ELEVATION



VIEW "B-B"





TYPICAL NOZZLE DETAIL

T= NECK THICKNESS
X= (SHELL)
X= (HEAD)
Y= 5/16" (SHELL)
Y= 1/2" (HEAD)

NOTES

1. NOZZLE PROJECTION TO BE 6" U.N.
2. SHELL NOZZLES TO HAVE FLANGE BOLT HOLES STRADDLE LONGITUDINAL VESSEL CENTERLINES.
3. HEAD NOZZLES TO HAVE FLANGE BOLT HOLES STRADDLE VERTICAL CENTERLINE.
4. SUPPLY TWO (2) LIFTING LUGS. (MINIMUM)
5. ⚠ DELETED
6. ALL FLANGE FACES TO BE PROTECTED FOR SHIPMENT.
7. GRIND ALL INTERNAL WELDS SMOOTH, NOT FLUSH. ALL INTERNAL SURFACES SHALL BE SMOOTH CONTOURED FOR RUBBERLINING.
8. ALL NOZZLES TO BE FLUSH W/ VESSEL INTERIOR AND GROUND TO A SMOOTH EVEN RADIUS. ALL CORNERS TO BE GROUND TO A MIN. 3/16" RADIUS.
9. SEE DWG. D-90081-02 FOR MANWAY AND SADDLE DETAILS.
10. HYDROTEST @ 150 psig BEFORE RUBBER LINING.

TANK DATA

DESIGNED & FABRICATED PER : NON CODE	
NUMBER TANKS REQ'D. : ONE	CORROSION ALLOWANCE : NONE
TANK CONTENTS : LEACHATE	SPECIFIC GRAVITY OF CONTENTS : 1.00
OPERATING PRESSURE : 100psig	OPERATING TEMPERATURE : AMBIENT
DESIGN PRESSURE : 100 psig	DESIGN TEMPERATURE : AMBIENT
RADIOGRAPHY : NO	JOINT EFFICIENCY : 80%

SPECIFIC HEAD DATA

HEAD TYPE : FLANGED & DISHED	DISH RAD. : 96"
MINIMUM THICKNESS : 1/2"	KNUCKLE RAD. : 5 3/4"
MATERIAL: A36	STR. FLG. : 1 1/2"

("AS BUILT" JUNE 22, 1992)

DATE:	11/19/90	11/20/90	7/29	9/25/91	6/22/92
CUST.	3 FSP	4 FSP		3-P	8P
SHOP:					
FIELD:					
OTHER:			(STAMPING)		

MATERIAL OF CONSTRUCTION (UNLESS OTHERWISE NOTED)	
PLATE:	A36
SHAPES:	A36
PIPE:	A53B
FLANGES:	A105
GASKETS:	RUBBER (RED)
BOLTING:	A307B

EXTERIOR FINISH:
BY LINING SUPPLIER
BLAST PER SSPC-SP6

ONE (1) COAT OF KOPPERS PUG PRIMER 3 TO 4 MIL D.F.T.

STENCIL ON BOTH SIDES OF TANK IN 4" HIGH LETTERS "THIS TANK IS RUBBER LINED, DO NOT WELD OR APPLY HEAT".

INTERIOR FINISH:
BY LINING SUPPLIER
BLAST PER SSPC-SP5

ARCO 864 RUBBER LINING

STATUS	BY	DATE
RELEASED TO FIELD		
RELEASED FOR FABRICATION	C.T.	9-25-91
APPROVAL RECEIVED	C.T.	9-24-91 (2:43)
ISSUED FOR APPROVAL	C.T.	11/19/90
CHECKED	ROW	11/19/90
DRAWING	C.T.	11/19/90

REV.	DESCRIPTION	BY CHK	DATE
2	MOVED GRIND SYMBOL ON WELD	JMS	11/12/91
1	REV. NOZ. MKS & REV. ALL FLG'S. TO F.F.	CT ROW	9/24/91
	DELETED NOTE "5" ~ GASKET ARE REQ'D.		

TAMPA TANK & WELDING, INC.
TAMPA, FLORIDA

DETAILS OF LEACHATE STORAGE TANK

CUSTOMER SOUTHEAST LANDFILL

JOBSITE: LITHIA, FLORIDA

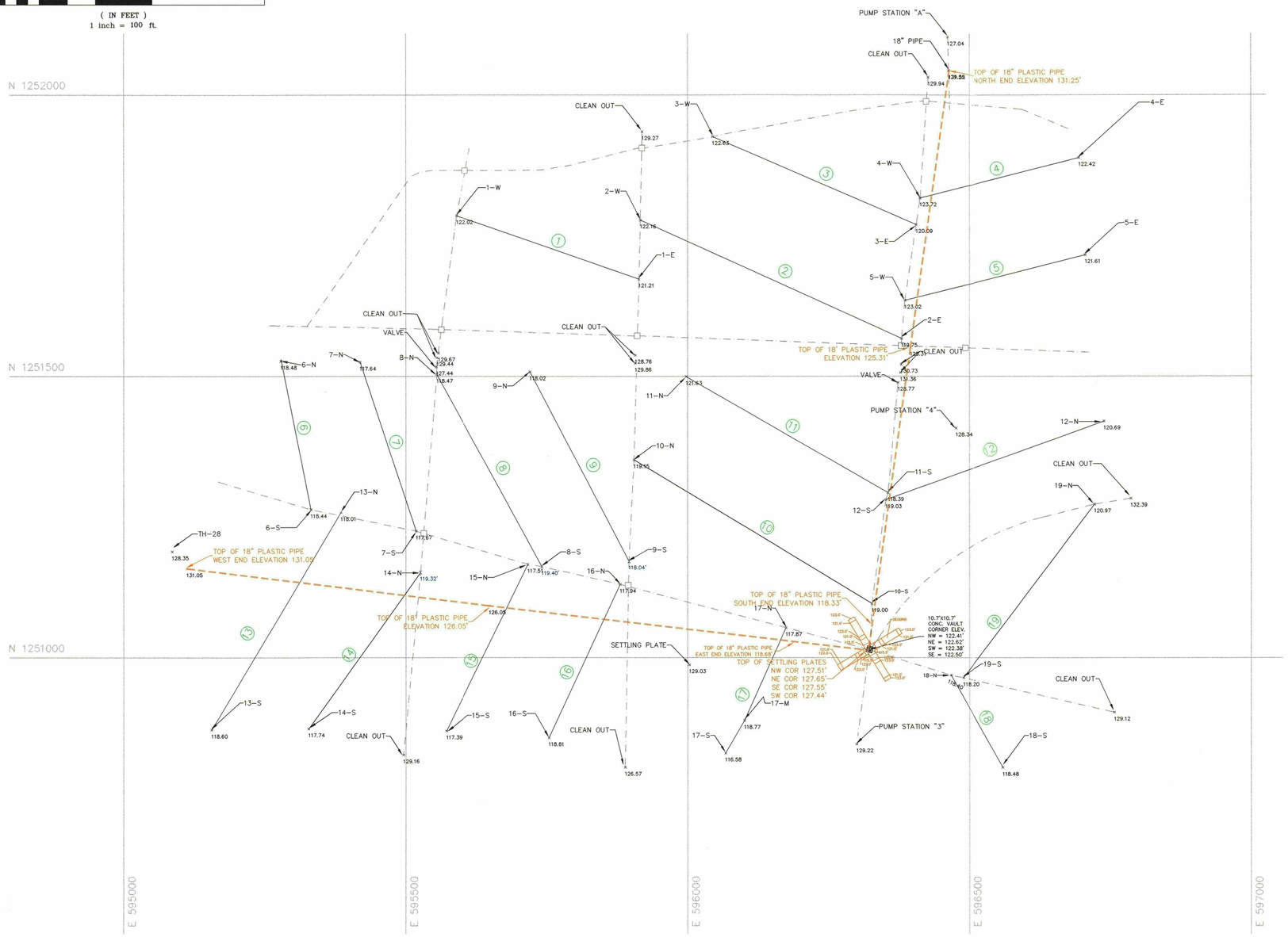
CUSTOMER'S P.O. NO.: 066891
JOB NUMBER
CONTRACT NUMBER 90081
SHEET NUMBER OF
DRAWING NO.: D- 90081-01
REV. 2

SPECIFIC PURPOSE SURVEY
SOUTHEAST COUNTY LANDFILL

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.



Point	Northing	Easting	Elevation	Description
28	1251188.51	595085.81	128.35	TH-28
30	1252423.26	595915.33		TH-30
100	1252102.31	596461.28	127.04	PUMP STATION "A"
101	1252031.42	596426.53	129.94	CLEAN OUT
102	1252043.24	596462.99	129.52	18" PIPE
103	1251888.31	596694.92	122.42	4-E
* 104	1251816.12	596412.25	123.72	4-W
105	1251768.82	596405.30	120.09	3-E
* 106	1251634.35	596385.37	123.02	5-W
107	1251566.48	596379.49	119.75	2-E
108	1251715.30	596706.09	121.61	5-E
109	1251925.57	596044.35	122.63	3-W
110	1251934.52	595919.34	129.27	CLEAN OUT
111	1251777.11	595916.14	122.16	2-W
112	1251672.12	595913.70	121.21	1-E
113	1251537.22	595907.35	128.76	CLEAN OUT
114	1251523.09	595907.12	129.86	CLEAN OUT
115	1251784.99	595590.12	122.02	1-W
116	1251541.13	595558.02	129.67	CLEAN OUT
117	1251533.13	595555.28	129.44	CLEAN OUT
118	1251516.55	595554.17	127.44	VALVE
119	1251503.27	595555.09	118.47	9-N
120	1251524.99	595418.87	117.64	7-N
121	1251526.79	595278.53	118.48	6-N
122	1251507.69	595720.26	118.02	9-N
123	1251499.33	595997.39	121.63	11-N
124	1251350.87	595905.01	119.15	10-N
125	1251520.66	596378.69	130.73	CLEAN OUT
126	1251506.23	596377.50	131.36	CLEAN OUT
127	1251488.84	596373.08	128.77	VALVE
128	1251407.99	596476.20	128.34	PUMP STATION "4"
129	1251402.31	596739.06	120.69	12-N
130	1251271.99	596722.13	120.97	19-N
131	1251282.42	596786.73	132.39	CLEAN OUT
132	1251279.74	596351.64	119.03	12-S
133	1251292.32	596355.59	118.39	11-S
134	1250902.99	596757.50	129.12	CLEAN OUT
135	1250964.42	596489.40	118.20	19-S
136	1250968.59	596467.54	118.40	18-N
137	1250804.61	596359.52	118.48	18-S
138	1250846.19	596299.91	129.22	PUMP STATION "3"
139	1250830.07	596067.32	116.58	17-S
140	1250888.00	596100.77	118.77	17-M
141	1250987.19	596003.16	129.03	SETTLING PLATE
142	1250804.63	595989.09	126.57	CLEAN OUT
143	1250857.34	595753.94	118.81	16-S
144	1250869.54	595572.07	117.39	15-S
145	1250826.90	595495.78	129.16	CLEAN OUT
146	1250873.45	595327.58	117.74	14-S
147	1250871.51	595155.92	118.60	13-S
148	1251156.71	595121.13	128.71	PROPOSED 18" PIPE
149	1251262.68	595331.74	118.44	6-S
150	1251257.37	595384.97	118.01	13-N
151	1251224.12	595518.16	117.67	7-S
152	1251151.26	595525.89	121.37	
153	1251165.13	595716.68	117.51	15-N
154	1251161.22	595741.47	119.55	
155	1251170.96	595895.97	119.15	
156	1251130.05	595880.43	117.94	16-N
157	1251053.14	596174.46	117.87	17-N
158	1251095.92	596326.85	119.00	10-S
159	1251019.26	596329.37	122.62	VAULT
160	1251008.28	596326.64	122.50	VAULT
161	1251010.89	596315.97	122.38	VAULT
162	1251021.10	596318.87	122.41	VAULT
163	1251017.99	596306.93	119.88	INVERT OF 8" PLASTIC
164	1251034.44	596338.16	119.44	TOP OF 8" PLASTIC PI
165	1251007.60	596341.56	119.71	TOP OF 8" PLASTIC PI
166	1250963.44	596348.01	121.00	STUD
167	1250976.86	596279.73	120.05	STUD
168	1251059.18	596283.05	120.26	STUD
169	1251051.36	596361.15	120.98	STUD
170	1251034.23	596340.12	120.92	TOP OF GRID
171	1251039.19	596311.86	120.30	TOP OF GRID
173	1250859.56	598983.42	137.56	PLS 3840\LB4417
174	1250556.67	598828.08	138.10	RIP-RAP
175	1250568.67	598840.60	138.77	RIP-RAP
176	1250584.62	598818.35	136.94	RIP-RAP
177	1250572.48	598822.98	133.61	CL SWALE
178	1250624.50	598742.04	132.60	CL SWALE
179	1250682.33	598666.67	132.20	CL SWALE
180	1250729.38	598586.43	131.03	CL SWALE
181	1250773.54	598500.63	130.72	CL SWALE
182	1250835.14	598424.80	129.77	CL SWALE
183	1250886.81	598339.87	129.71	CL SWALE
184	1250927.38	598263.29	129.38	CL SWALE
185	1250969.50	598185.53	128.90	CL SWALE
186	1251021.84	598118.39	128.84	CL SWALE
187	1251083.90	598037.90	128.31	CL SWALE
188	1251152.82	597950.28	128.10	CL SWALE
189	1251464.50	597556.91	127.02	CL SWALE
190	1251495.67	597547.67	130.52	RIP-RAP
191	1251522.54	597513.53	132.22	RIP-RAP
192	1251513.09	597502.27	127.71	INVERT OF 36" CMP
193	1251510.25	597499.03	127.58	INVERT OF 36" CMP
194	1251500.39	597492.56	129.68	RIP-RAP
195	1251474.03	597530.65	128.49	RIP-RAP
196	1251570.73	597432.55	126.74	INVERT 36" CMP
197	1251567.06	597429.96	126.68	INVERT 36" CMP

* ELEVATIONS FOR POINT NUMBERS 104 AND 106 REPRESENT TOP OF TIRE TRENCH.

Point	Northing	Easting	Elevation	Description
250	1251158.19	595111.76	131.05	top 18" plastic
251	1251091.88	595648.17	126.05	top 18" plastic
252	1251012.83	596321.62	118.68	top 18" plastic
253	1251016.91	596321.23	118.33	top 18" plastic
254	1251014.90	596321.33	122.31	top vault
255	1251020.39	596319.06	127.51	top settling plate
256	1251011.73	596316.45	127.44	top settling plate
257	1251008.83	596326.01	127.55	top settling plate
258	1251017.75	596328.39	127.65	top settling plate
259	1251551.05	596395.09	125.31	top 18" plastic pipe
260	1252043.81	596463.71	131.25	top 18" plastic pipe
261	1251229.32	597846.54	127.92	cl swale
264	1251330.22	597726.44	127.90	cl swale
268	1251433.85	597596.83	127.72	cl swale
269	1251464.50	597556.91	127.70	cl swale

SURVEYOR'S NOTES

1.) THIS IS A SPECIFIC PURPOSE SURVEY, THE PURPOSE OF WHICH IS TO DEPICT THE FIELD LOCATIONS OF THE ENDS OF PROPOSED TRENCHES, CLEAN OUTS, VALVES, PIPES. THE LOCATIONS AND ELEVATIONS OF THE CENTERLINE OF AN EXISTING SWALE AND 36" CMPs HAVE ALSO BEEN SHOWN.
2.) THE FIELD SURVEY WAS PREFORMED ON OCTOBER 3, 1998.
3.) THE HORIZONTAL CONTROL POINTS USED ARE TH-28 AND TH-30.
4.) THE VERTICAL CONTROL POINTS USED ARE TH-28 AND THE BRASS DISK STAMPED PLS #3840 LB #4417 AS SHOWN HEREON.
5.) FEATURES DEPICTED IN RED WERE FIELD LOCATED ON DECEMBER 8TH, 1998.
6.) THE GEOGRID WAS NOT UNCOVERED, SPOT SHOTS HAVE BEEN TAKEN TO VERIFY CORRECT LOCATION.
7.) ELEVATIONS DEPICTED IN BLUE FOR 14-N, 8-S, 9-S, ARE BASED ON FIELD NOTES PROVIDED BY RED MAN CONSULTANTS DATED 02/17/99 PER CLIENTS REQUEST.

D.E.P.
MAR 05 1999
Southwest District Tampa

PAUL F. AKERS PROFESSIONAL SURVEYOR AND MAPPER #5733

NOT VALID UNLESS SIGNED AND SEALED WITH THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

(17)

REV.	DATE	DESCRIPTION	CK. BY
1	12/08/98	LOCATED 18" PLASTIC PIPES. CENTERLINE OF SWALE. SETTLING PLATES	PFA
2	02/02/99	ELEV. FOR 14-N, 8-S, 9-S. BASED ON FIELD NOTES BY RED MAN CONSULTANTS DATED 02/17/99.	PFA

DRAWING TITLE
SPECIFIC PURPOSE SURVEY

PROJECT TITLE
SOUTHEAST COUNTY LANDFILL
PHASES V AND VI LEACHATE COLLECTION
REMOVAL SYSTEMS IMPROVEMENTS

CLIENT
ERC CONTRACTORS

PAUL F. AKERS
PROFESSIONAL SURVEYOR AND MAPPER
5502 LAKE MARY BLVD. SHORES COURT
ORLANDO, FLORIDA 32839 PH# (407) 850-9266

PROJ. NO. 98-15
DWN. BY: PFA
Q/A RVW BY:
DSN. BY:
CHK. BY: PFA
APP. BY:

CADD FILE: EAST.DWG

DATE: OCT. 3, 1998

SCALE: 1"=100'

DRAWING NO.

1 of 1

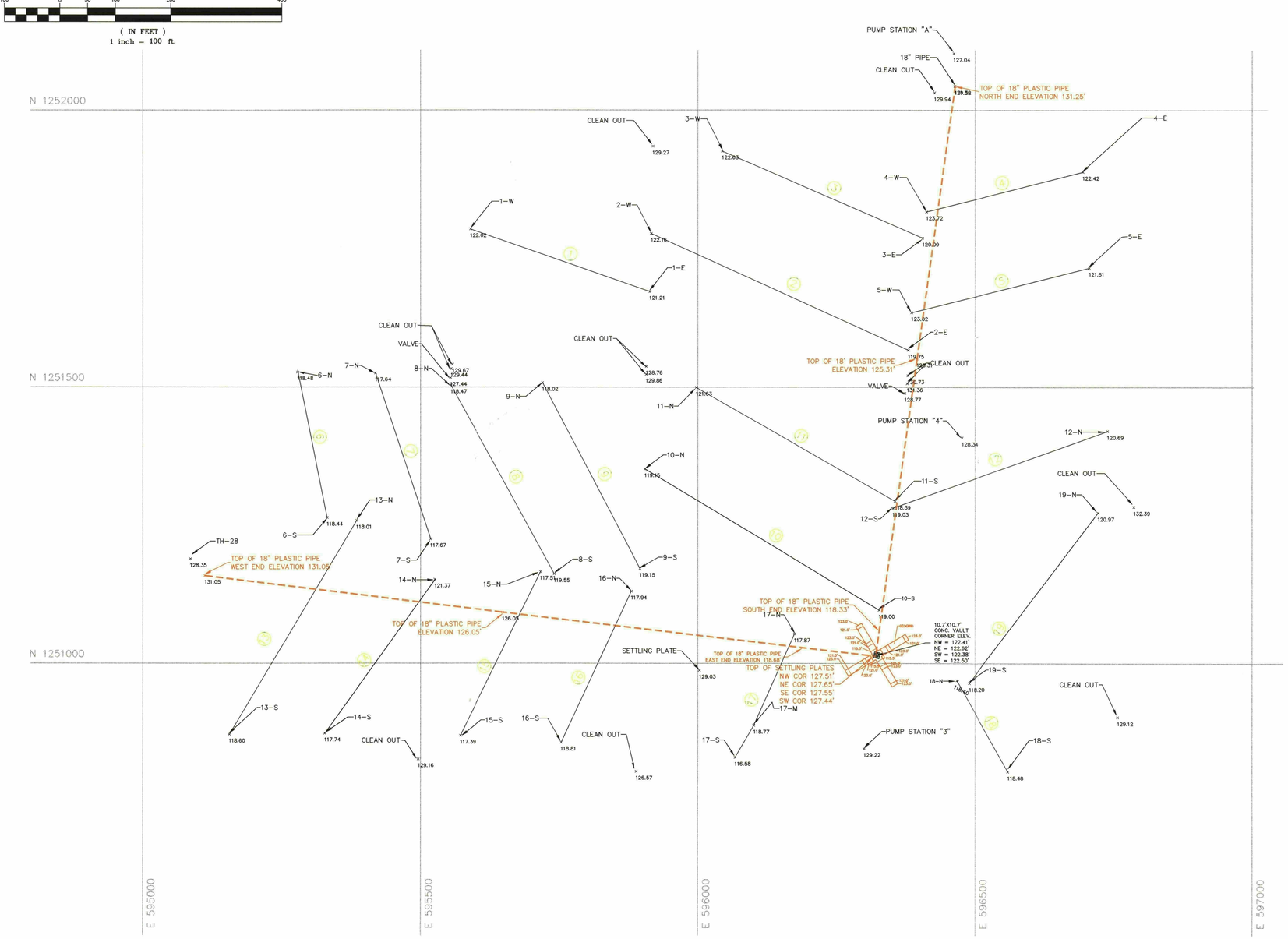
SPECIFIC PURPOSE SURVEY

SOUTHEAST COUNTY LANDFILL

GRAPHIC SCALE

100 0 50 100 200 400

(IN FEET)
1 inch = 100 ft.



Point	Northing	Easting	Elevation	Description
28	1251188.51	595085.81	128.35	TH-28
30	1252423.26	595915.33	-	TH-30
100	1252102.31	596461.28	127.04	PUMP STATION "A"
101	1252031.42	596426.53	129.94	CLEAN OUT
102	1252043.24	596462.99	129.52	18" PIPE
103	1251888.31	596694.92	122.42	4-E
104	1251816.12	596412.25	123.72	4-W
105	1251768.82	596405.30	120.09	3-E
106	1251634.35	596385.37	123.02	5-W
107	1251566.48	596379.49	119.75	2-E
108	1251715.30	596706.09	121.61	5-E
109	1251925.57	596044.35	122.63	3-W
110	1251934.52	595919.34	129.27	CLEAN OUT
111	1251777.11	595916.14	122.16	2-W
112	1251672.12	595913.70	121.21	1-E
113	1251537.22	595907.35	128.76	CLEAN OUT
114	1251523.09	595907.12	129.86	CLEAN OUT
115	1251784.99	595590.12	122.02	1-W
116	1251541.13	595558.02	129.67	CLEAN OUT
117	1251533.13	595555.28	129.44	CLEAN OUT
118	1251516.55	595554.17	127.44	VALVE
119	1251503.27	595555.09	118.47	8-N
120	1251524.99	595418.87	117.64	7-N
121	1251526.79	595278.53	118.48	6-N
122	1251507.69	595720.26	118.02	9-N
123	1251499.33	595997.39	121.63	11-N
124	1251350.87	595905.01	119.15	10-N
125	1251520.66	596378.69	130.73	CLEAN OUT
126	1251506.23	596377.50	131.36	CLEAN OUT
127	1251488.84	596373.08	128.77	VALVE
128	1251407.99	596476.20	128.34	PUMP STATION "4"
129	1251420.31	596739.06	120.69	12-N
130	1251271.99	596722.13	120.97	19-N
131	1251282.42	596786.73	132.39	CLEAN OUT
132	1251279.74	596351.64	119.03	12-S
133	1251292.32	596355.59	118.39	11-S
134	1250902.99	596757.50	129.12	CLEAN OUT
135	1250964.42	596489.40	118.20	19-S
136	1250968.59	596467.54	118.40	18-N
137	1250804.61	596559.52	118.48	18-S
138	1250846.19	596299.91	129.22	PUMP STATION "3"
139	1250830.07	596067.32	116.58	17-S
140	1250886.00	596100.77	118.77	17-M
141	1250987.19	596003.16	129.03	SETTLING PLATE
142	1250804.63	595889.09	126.57	CLEAN OUT
143	1250857.34	595753.94	118.81	16-S
144	1250869.54	595572.07	117.39	15-S
145	1250826.90	595495.78	129.16	CLEAN OUT
146	1250873.45	595327.58	117.74	14-S
147	1250871.51	595150.92	118.60	13-S
148	1251156.71	595121.13	128.71	PROPOSED 18" PIPE
149	1251262.68	595331.74	118.44	6-S
150	1251257.37	595384.97	118.01	13-N
151	1251224.12	595518.16	117.67	7-S
152	1251151.26	595525.89	121.37	14-N
153	1251165.13	595716.68	117.51	15-N
154	1251161.22	595741.47	119.55	8-S
155	1251170.96	595895.97	119.15	9-S
156	1251130.05	595880.43	117.94	16-N
157	1251053.14	596174.46	117.87	17-N
158	1251095.92	596326.85	119.00	10-S
159	1251019.26	596329.37	122.62	VAULT
160	1251008.28	596326.64	122.50	VAULT
161	1251010.89	596315.97	122.38	VAULT
162	1251021.10	596318.87	122.41	VAULT
163	1251017.39	596306.93	119.88	INVERT OF 8" PLASTIC
164	1251034.44	596338.16	119.44	TOP OF 8" PLASTIC PI
165	1251007.60	596341.56	119.71	TOP OF 8" PLASTIC PI
166	1250963.44	596348.01	121.00	STUD
167	1250976.86	596279.73	120.05	STUD
168	1251059.18	596283.05	120.26	STUD
169	1251051.36	596361.15	120.98	STUD
170	1251034.23	596340.12	120.92	TOP OF GRID
171	1251039.19	596311.86	120.30	TOP OF GRID
173	1250859.56	598983.42	137.56	PLS 3840\1B4417
174	1250556.67	598828.08	138.10	RIP-RAP
175	1250568.67	598840.60	138.77	RIP-RAP
176	1250584.62	598818.35	136.94	RIP-RAP
177	1250572.48	598822.98	133.61	CL SWALE
178	1250624.50	598742.04	132.60	CL SWALE
179	1250682.33	598666.67	132.20	CL SWALE
180	1250729.38	598586.43	131.03	CL SWALE
181	1250773.54	598500.63	130.72	CL SWALE
182	1250835.14	598424.80	129.77	CL SWALE
183	1250886.81	598339.87	129.71	CL SWALE
184	1250927.38	598263.29	129.38	CL SWALE
185	1250969.50	598185.53	128.90	CL SWALE
186	1251021.84	598118.39	128.84	CL SWALE
187	1251083.90	598037.90	128.31	CL SWALE
188	1251152.82	597950.28	128.10	CL SWALE
189	1251464.50	597556.91	127.02	CL SWALE
190	1251493.67	597547.67	130.52	RIP-RAP
191	1251522.54	597513.53	132.22	RIP-RAP
192	1251513.09	597502.27	127.71	INVERT OF 36" CMP
193	1251510.25	597499.03	127.58	INVERT OF 36" CMP
194	1251500.39	597492.56	129.68	RIP-RAP
195	1251474.03	597530.65	128.49	RIP-RAP
196	1251570.73	597432.55	126.74	INVERT 36" CMP
197	1251567.06	597429.96	126.68	INVERT 36" CMP

Point	Northing	Easting	Elevation	Description
250	1251158.19	595111.76	131.05	top 18" plastic
251	1251091.88	595648.17	126.05	top 18" plastic
252	1251012.83	596321.62	118.68	top 18" plastic
253	1251016.91	596321.23	118.33	top 18" plastic
254	1251014.90	596321.33	122.31	top vault
255	1251020.39	596319.06	127.51	top settling plate
256	1251011.73	596316.45	127.44	top settling plate
257	1251008.83	596326.01	127.55	top settling plate
258	1251017.75	596328.39	127.65	top settling plate
259	1251551.05	596395.09	125.31	top 18" plastic pipe
260	1252042.81	596463.71	131.25	top 18" plastic pipe
261	1251229.32	597846.54	127.92	cl swale
264	1251330.22	597728.44	127.90	cl swale
268	1251433.85	597596.83	127.72	cl swale
269	1251464.50	597556.91	127.70	cl swale

SURVEYOR'S NOTES

1.) THIS IS A SPECIFIC PURPOSE SURVEY, THE PURPOSE OF WHICH IS TO DEPICT THE FIELD LOCATIONS OF THE ENDS OF PROPOSED TRENCHES, CLEAN OUTS, VALVES, PIPES. THE LOCATIONS AND ELEVATIONS OF THE CENTERLINE OF AN EXISTING SWALE AND 36" CMPs HAVE ALSO BEEN SHOWN.
2.) THE FIELD SURVEY WAS PREFORMED ON OCTOBER 3, 1998.
3.) THE HORIZONTAL CONTROL POINTS USED ARE TH-28 AND TH-30.
4.) THE VERTICAL CONTROL POINTS USED ARE TH-28 AND THE BRASS DISK STAMPED PLS #3840 LB #4417 AS SHOWN HEREON.
5.) FEATURES DEPICTED IN RED WERE FIELD LOCATED ON DECEMBER 8TH, 1998.
6.) THE GEOGRID WAS NOT UNCOVERED, SPOT SHOTS HAVE BEEN TAKEN TO VERIFY CORRECT LOCATION.

D.E.R.
DEC 31 1998
SOUTHWEST DISTRICT
TAMPA

PAUL F. AKERS PROFESSIONAL SURVEYOR AND MAPPER #5733

NOT VALID UNLESS SIGNED AND SEALED WITH THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER

REV.	DATE	DESCRIPTION	CK. BY
1	12/08/98	LOCATED 18" PLASTIC PIPES.	PFA
		CENTERLINE OF SWALE.	
		SETTLING PLATES.	

DRAWING TITLE
SPECIFIC PURPOSE SURVEY

PROJECT TITLE
SOUTHEAST COUNTY LANDFILL
PHASES V AND VI LEACHATE COLLECTION
REMOVAL SYSTEMS IMPROVEMENTS

CLIENT
ERC CONTRACTORS

PAUL F. AKERS
PROFESSIONAL SURVEYOR AND MAPPER
5502 LAKE MARY JESS SHORES COURT
ORLANDO, FLORIDA 32839 PH# (407) 850-9266

PROJ. NO. 98-15 | DWN. BY: PFA | Q/A RVW BY: | DSN. BY: | CHK. BY: PFA | APP. BY:

CADD FILE: EAST.DWG

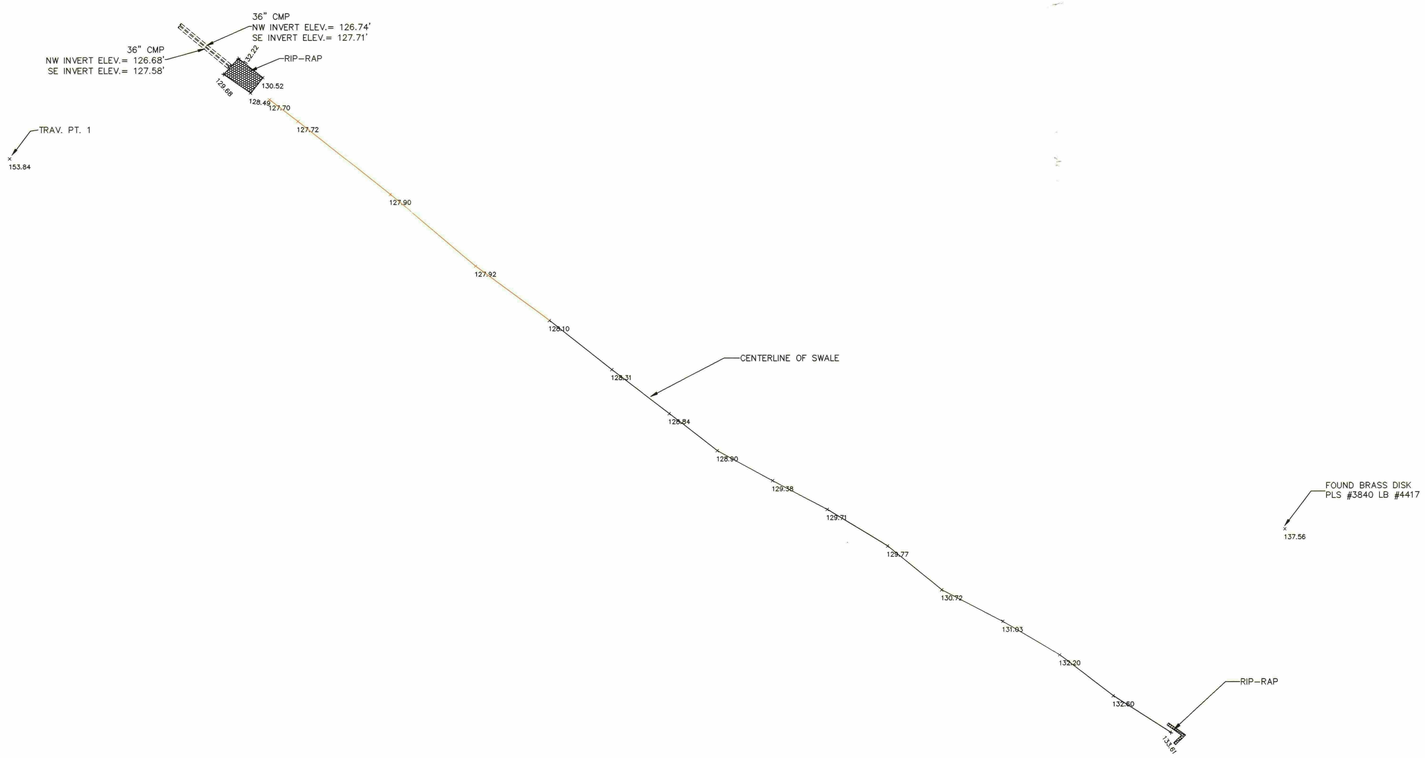
DATE: OCT. 3, 1998

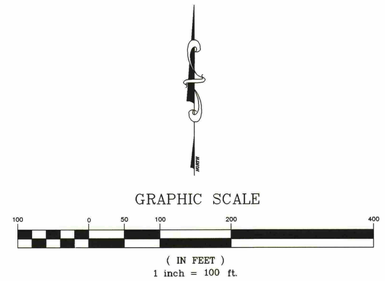
SCALE: 1"=100'

DRAWING NO.

1 of 2

SPECIFIC PURPOSE SURVEY
SOUTHEAST COUNTY LANDFILL





D.E.R.
DEC 31 1998
SOUTHWEST DISTRICT
TAMPA

(19)

REV.	DATE	DESCRIPTION	CK. BY

DRAWING TITLE
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2 of 2