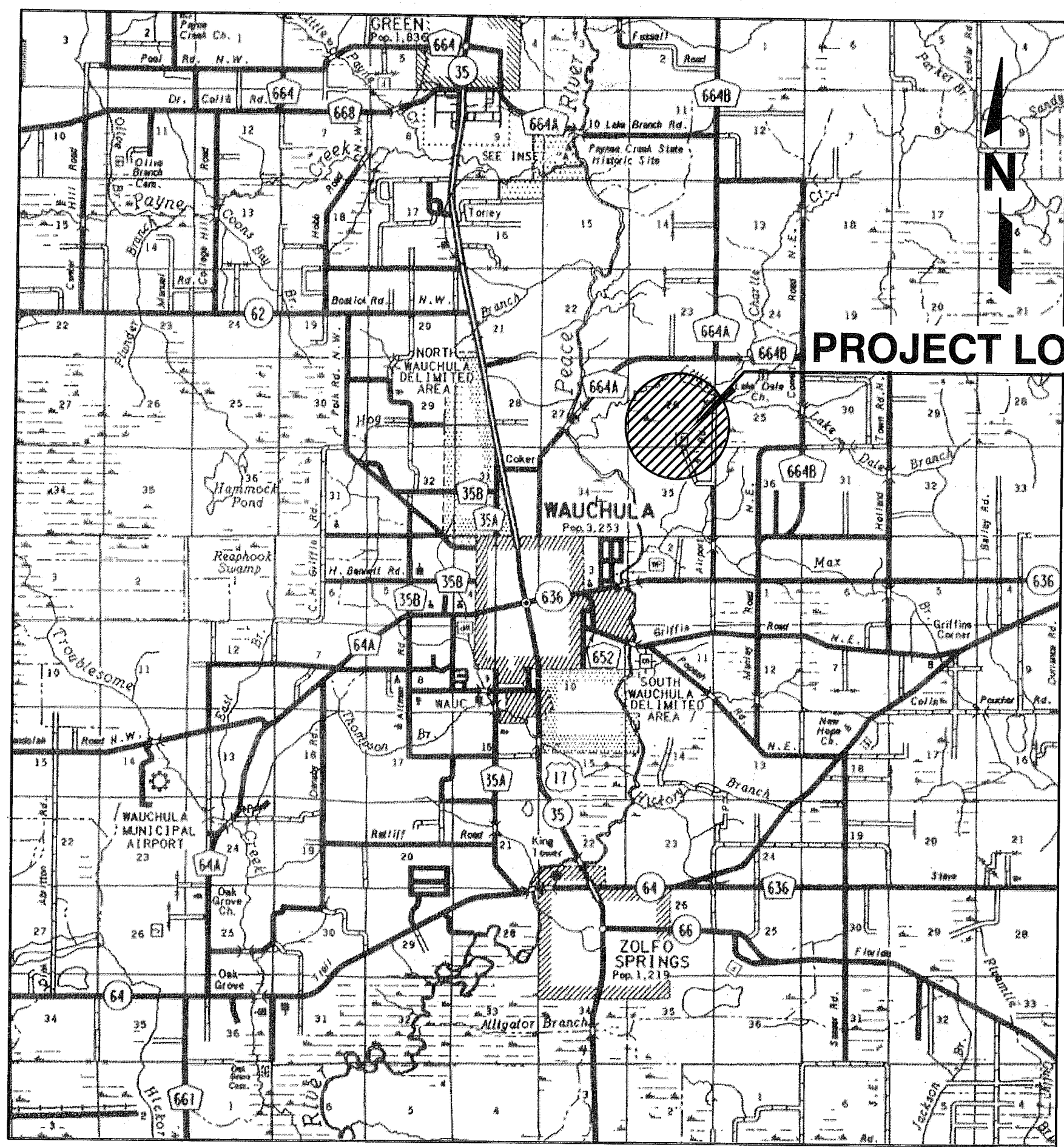


HARDEE COUNTY LANDFILL MODIFIED OPERATIONS DRAWINGS TO INCLUDE PHASE II SECTION I

PREPARED FOR
BOARD OF COUNTY COMMISSIONERS
HARDEE COUNTY, FLORIDA

MAY 2007



LOCATION MAP
NOT TO SCALE



DRAWING INDEX

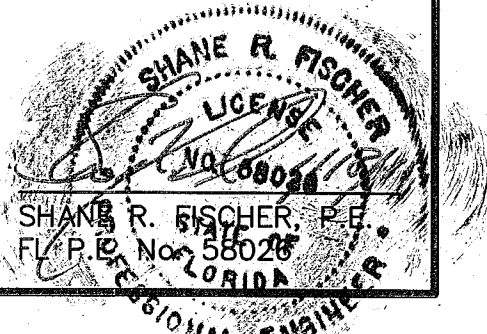
DRAWING NO.	DRAWING TITLE
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1	COVER SHEET
2	AERIAL PHOTOGRAPHY - MAY 2003
3	AERIAL PHOTOGRAPHY - JUNE 2006
4	PHASE I EXISTING CONDITIONS - JUNE 2006
5	PHASE I FILL SEQUENCE NO. 1
6	PHASE I FILL SEQUENCE NO. 2
7	PHASE I FILL SEQUENCE NO. 3
8	PHASE I FINAL BUILDOUT (TOP OF INTERMEDIATE COVER)
9	PHASE I AND PHASE II SITE PLAN
10	PHASE II SECTION I GROUNDWATER CONTROL SYSTEM
11	PHASE II SECTION I FILL SEQUENCE NO. 1
12	PHASE II SECTION I FILL SEQUENCE NO. 2
13	PHASE II SECTION I FILL SEQUENCE NO. 3
14	PHASE II SECTION I FILL SEQUENCE NO. 4
15	PHASE II SECTION I FILL SEQUENCE NO. 5
16	PHASE II SECTION I FILL SEQUENCE NO. 6
17	PHASE II SECTION I FILL SEQUENCE NO. 7
18	PHASE I SECTIONS
19	PHASE I DETAILS - 1
20	PHASE I DETAILS - 2
21	PHASE I DETAILS - 3
22	PHASE II SECTION I SECTIONS
23	PHASE II SECTION I SECTIONS
24	PHASE II SECTION I SECTIONS
25	PHASE II SECTION I SECTIONS
26	PHASE II SECTION I DETAILS

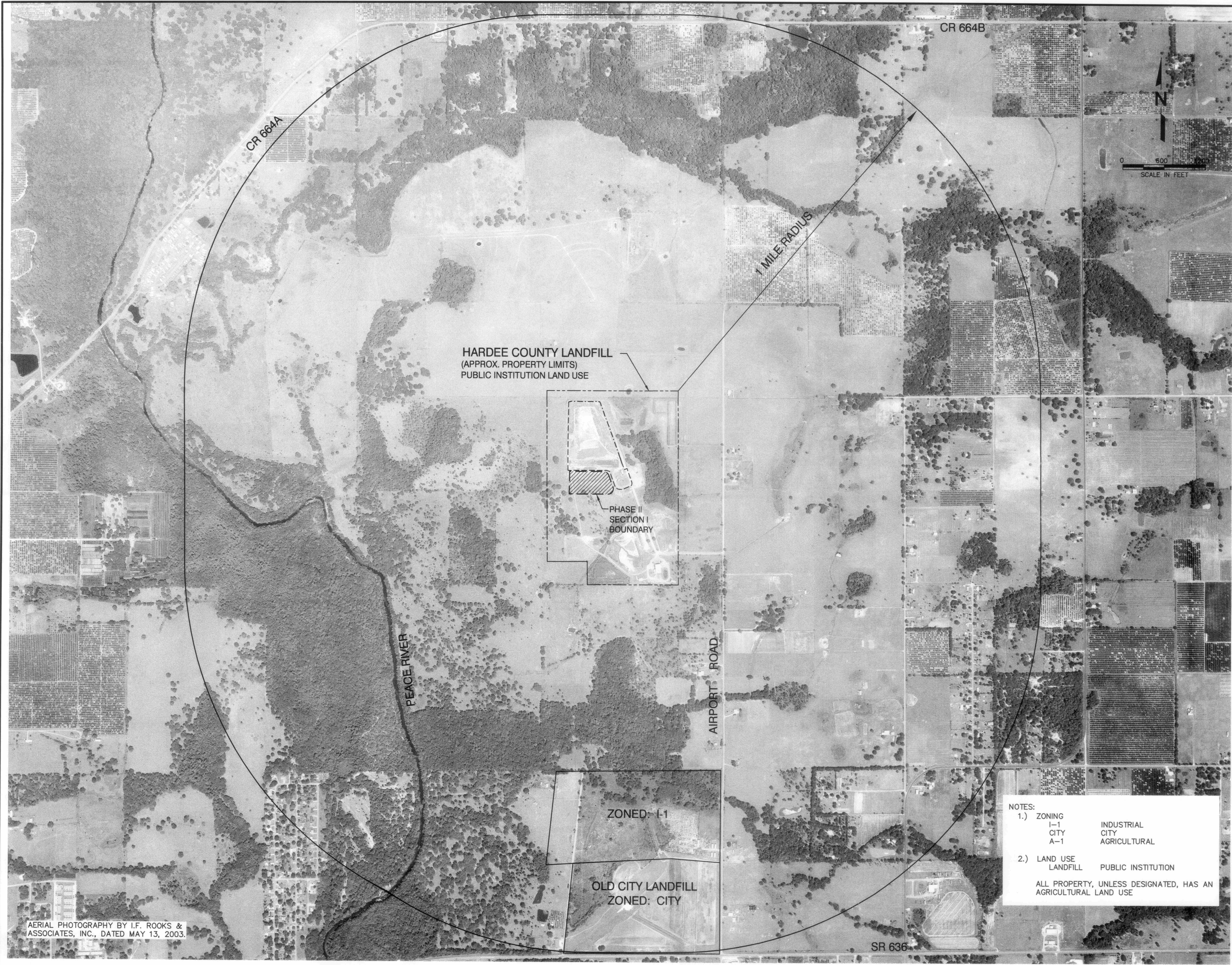
SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100
TAMPA, FLORIDA 33610
PH (813) 621-0080 FAX NO. (813) 623-6757
WWW.SCSENGINEERS.COM
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892
SCS PROJECT NO. 09199033.12

- △ REVISED OCTOBER 1, 2007
PER FDEP RAI NO. 1
- △ REVISED JANUARY 30, 2008
PER FDEP RAI NO. 2
- △ REVISED MAY 14, 2010
REVISED FILL SEQUENCE
- △ REVISED AUGUST 16, 2010
PER FDEP RAI NO. 2
- △ REVISED JANUARY 14, 2011
PER FDEP RAI NO. 2

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
JAN 18 2011
SOUTHWEST DISTRICT
TAMPA



2



NOTES:

1.) ZONING
 I-1 INDUSTRIAL
 CITY CITY
 A-1 AGRICULTURAL

2.) LAND USE
 LANDFILL PUBLIC INSTITUTION

ALL PROPERTY, UNLESS DESIGNATED, HAS AN AGRICULTURAL LAND USE

AERIAL PHOTOGRAPHY BY I.F. ROOKS & ASSOCIATES, INC., DATED MAY 13, 2003.

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			

DRAWING TITLE: **AERIAL PHOTOGRAPHY**
 DATE: **MAY 2003**

PROJECT TITLE: **HARDEE COUNTY LANDFILL OPERATIONS DRAWINGS**

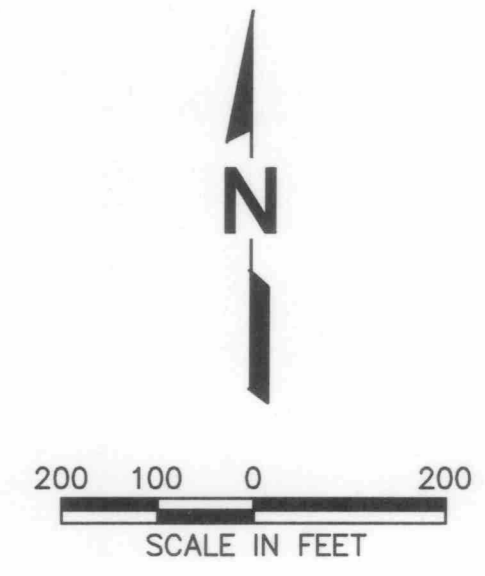
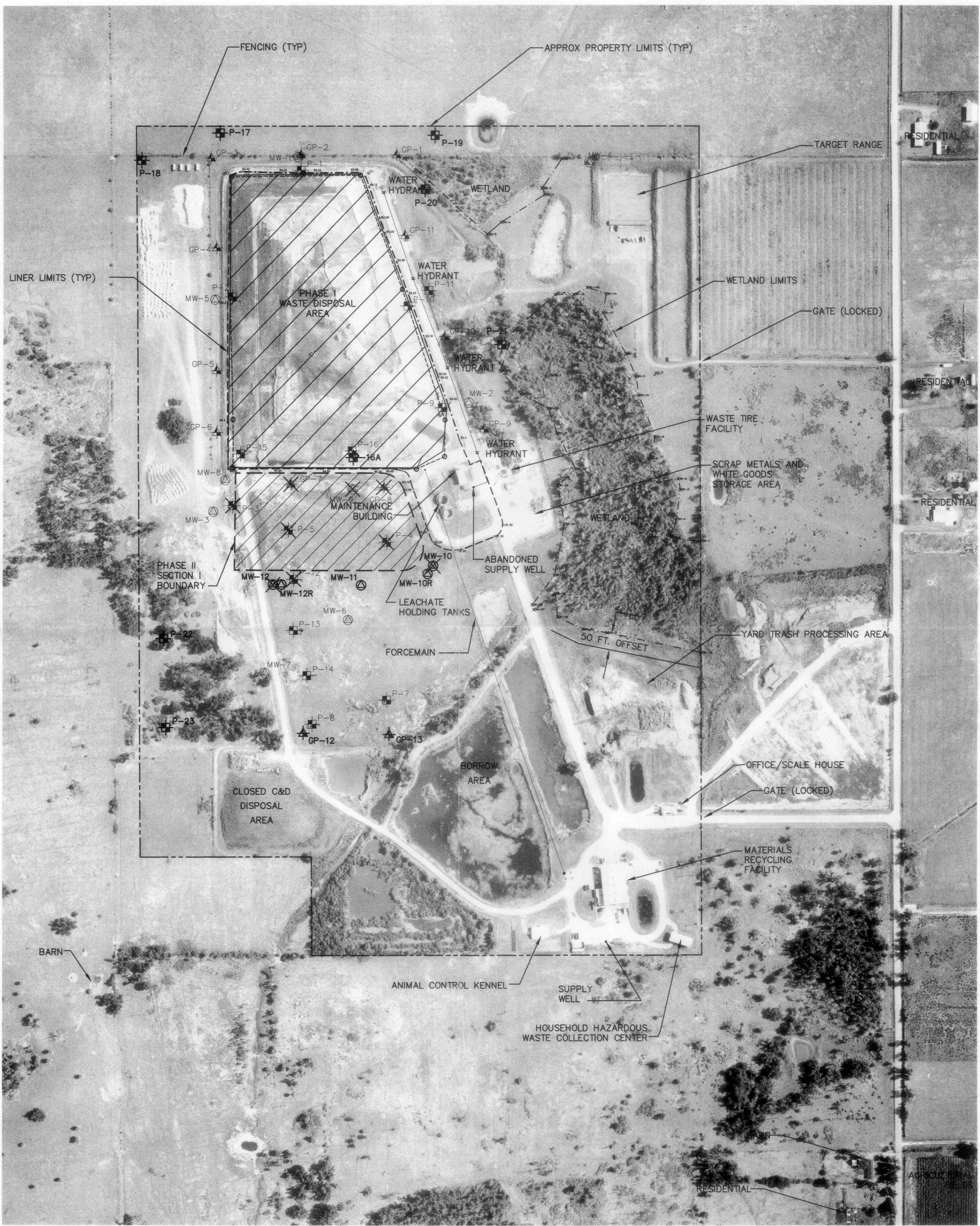
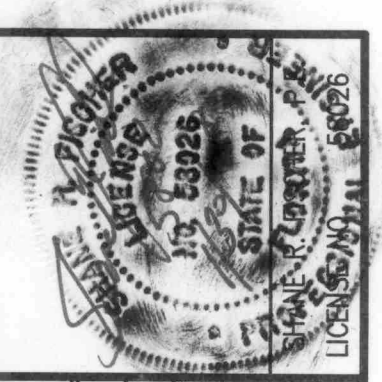
CLIENT: **HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS**

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 815 621-6000 FAX 813-621-6001
 100 TAMPA, FL 33610
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882

DATE: JUN 5 2007
 TIME: 10:30 AM
 DRAWN BY: SDA
 CHECKED BY: CEH
 APPR. BY: CEH

CADD FILE: 993312SEQ-AERIAL
 DATE: MAY 2007
 SCALE: AS SHOWN
 DRAWING NO.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 JUN - 5 2007
 SOUTHWEST DISTRICT
 TAMPA



LEGEND

- MW-7 EXISTING GROUNDWATER MONITORING WELL
- MW-9 ABANDONED GROUNDWATER MONITORING WELL
- MW-11 NEW GROUNDWATER MONITORING WELL
- GP-6 EXISTING GAS MONITORING PROBE
- GP-7 ABANDONED GAS MONITORING PROBE
- GP-12 NEW GAS MONITORING PROBE
- P-15 EXISTING PIEZOMETER
- P-3 ABANDONED PIEZOMETER
- P-22 NEW PIEZOMETER
- o EXISTING MANHOLE

NOTES:

1. GROUNDWATER MONITORING WELLS (MW-10, MW-11, AND MW-12); PIEZOMETERS (P-17, P-18, P-19, P-20, P-21, P-22, AND P-23) AND GAS PROBES (GP-12 AND GP-13) ARE INSTALLED PER CONSTRUCTION PERMIT NO. 38414-008-SC/01 FOR THE PHASE II SECTION I LANDFILL EXPANSION.
2. PIEZOMETERS (P-3, P-4, P-12 AND P-5); GAS PROBES (GP-7 AND GP-8) AND MONITORING WELL (MW-9) ABANDONED PER CONSTRUCTION PERMIT NO. 38414-008-SC/01 FOR THE PHASE II SECTION I LANDFILL EXPANSION.

AERIAL PHOTOGRAPHY PERFORMED BY:
 PICKETT SURVEYING & PHOTOGRAMMETRY
 475 S. 1ST AVE., BARTOW, FL 33830
 (863) 533-9095
 PHOTO DATE: 06/16/06

REV	DATE	DESCRIPTION	BY
1	1/30/08	ADDED MW-10R AND MW-12R	SRF

DRAWING TITLE: **AERIAL PHOTOGRAPHY
 JUNE 2006**
 PROJECT TITLE: **HARDEE COUNTY
 LANDFILL
 OPERATIONS DRAWINGS**

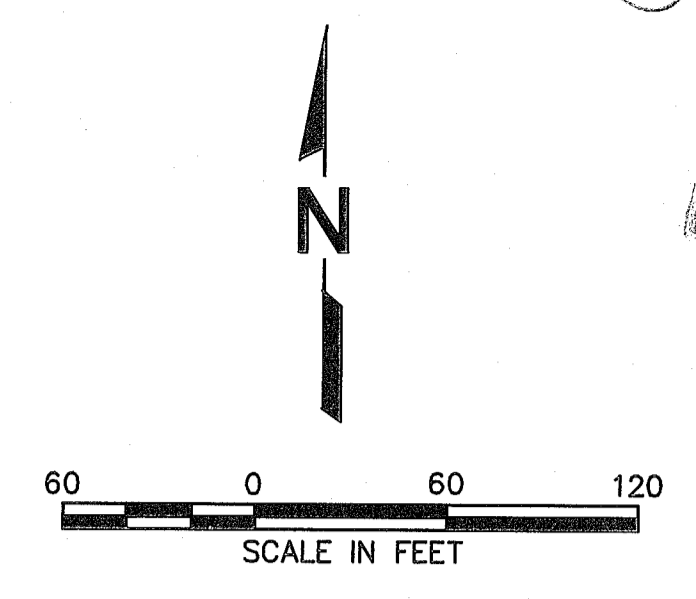
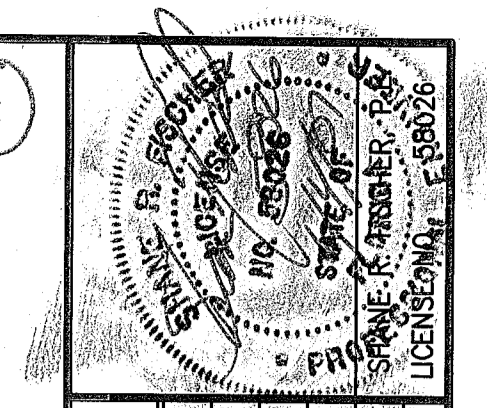
CLIENT: **HARDEE COUNTY
 BOARD OF
 COUNTY COMMISSIONERS**

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
 813.821.0080 FAX 813.822.6757
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882
 DATE: BY: SDA
 CHECKED BY: CEH
 DATE: BY: SRF
 CHECKED BY: CEH
 DATE: BY: SRF
 CHECKED BY: CEH

CADD FILE:
 993312SEQ-AERIAL
 DATE:
 MAY 2007
 SCALE:
 AS SHOWN

DRAWING NO.
3 of 26

8/10/08
 10:00 AM
 JAN 9 2008
 10:00 AM
 10:00 AM



- LEGEND:**
- GP-1 GAS MONITORING PROBE
 - GP-1 ABANDONED GAS MONITORING PROBE
 - MW-2 MONITORING WELL
 - MW-2 ABANDONED MONITORING WELL
 - P-1 PIEZOMETER
 - P-1 ABANDONED PIEZOMETER
 - P-21 NEW PIEZOMETER
 - MANHOLE
 - 85.1 SPOT ELEVATION
 - VEGETATION
 - FENCE
 - INDEX CONTOUR (6/16/06 SURVEY)
 - SURFACE WATER FLOW DIRECTION
 - OVERHEAD ELECTRIC
 - UNDERGROUND ELECTRIC
 - GUY WIRE

- NOTES:**
- ELEVATIONS AND TOPOGRAPHIC INFORMATION SHOWN DERIVED BY PHOTOGRAMMETRIC METHODS AND PERFORMED BY PICKETT SURVEYING & PHOTOGRAMMETRY, PHOTO DATE 06/16/06. SCS AND PICKETT MAKE NO REPRESENTATION OR GUARANTEES PERTAINING TO EASEMENTS, RESERVATIONS, RIGHT-OF-WAYS, SETBACKS, PROPERTY LIMITS, AND OTHER SIMILAR MATTERS.
 - CONTROL POINTS FOR THE AERIAL SURVEY BASED UPON FLORIDA STATE PLANE, WEST ZONE NAD 1983 AND NGVD 1929.
 - VERIFY ALL EXISTING ELEVATIONS, STRUCTURES, AND UTILITIES WHICH MAY AFFECT THE WORK PRIOR TO BEGINNING CONSTRUCTION. REPORT TO THE ENGINEER ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION.
 - MANHOLES, EDGE OF LINER, WETLAND LIMITS, DRAINAGE PIPES, MONITORING WELLS, BENCHMARKS AND PROPERTY LIMITS SURVEYED BY CHASTAIN SKILLMAN, INC. FIELD SURVEY DATED 7/2/2003.
- BENCHMARKS - CONCRETE MONUMENTS W/ BRASS DISK
- | | | |
|-------|---|----------------------|
| BM #1 | N 1175440.35
E 727746.08
EL. 84.025 | NEAR SCALE HOUSE |
| BM #2 | N 1176586.54
E 727034.07
EL. 85.875 | MAINTENANCE BUILDING |

REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

DRAWING TITLE: **PHASE I EXISTING CONDITIONS**

DATE: **JUNE 2006**

PROJECT TITLE: **HARDEE COUNTY LANDFILL OPERATIONS DRAWINGS**

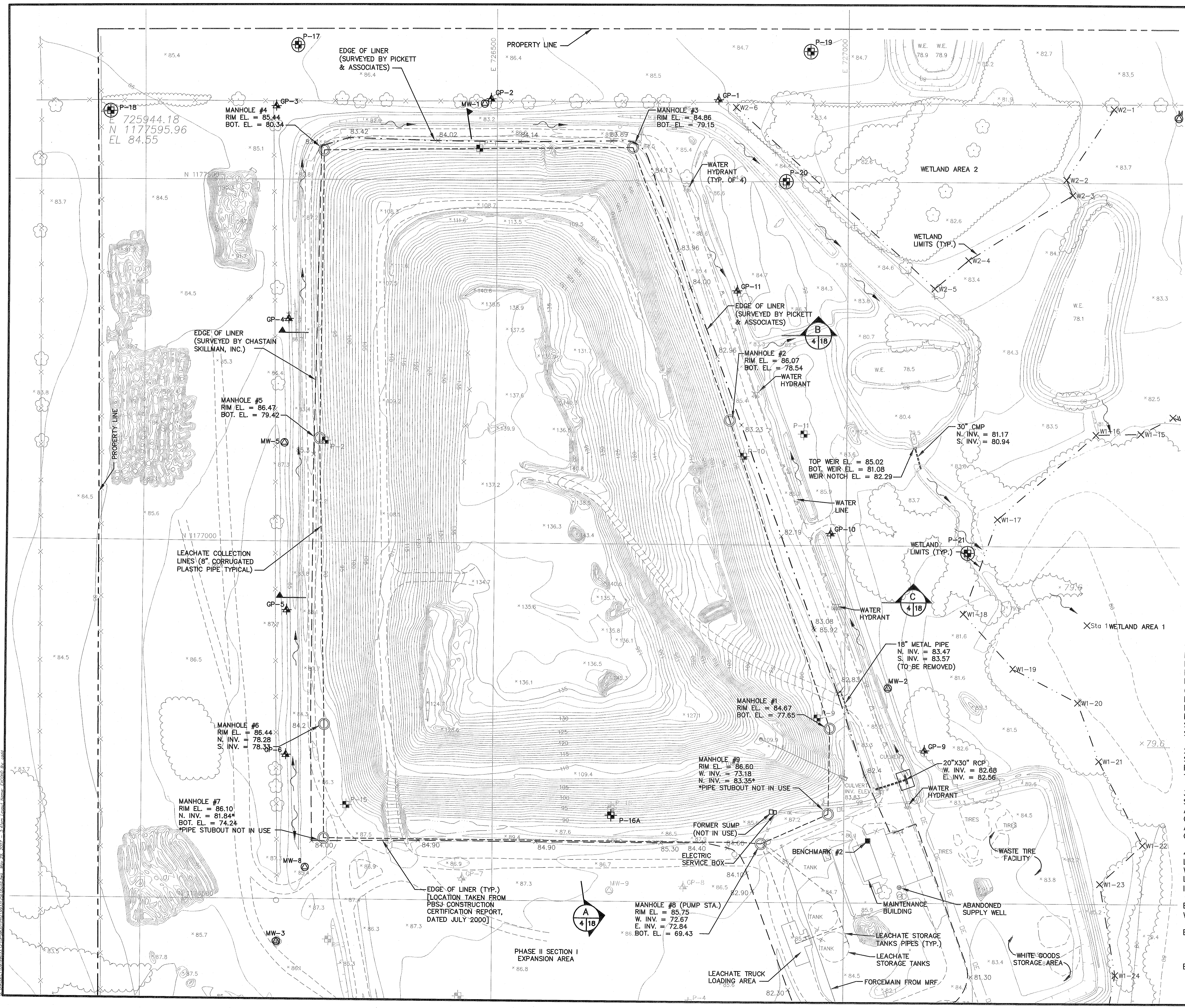
CLIENT: **HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS**

CADD FILE: 993312SEQbuild

DATE: MAY 2007

SCALE: AS SHOWN

DRAWING NO. **4** of 26

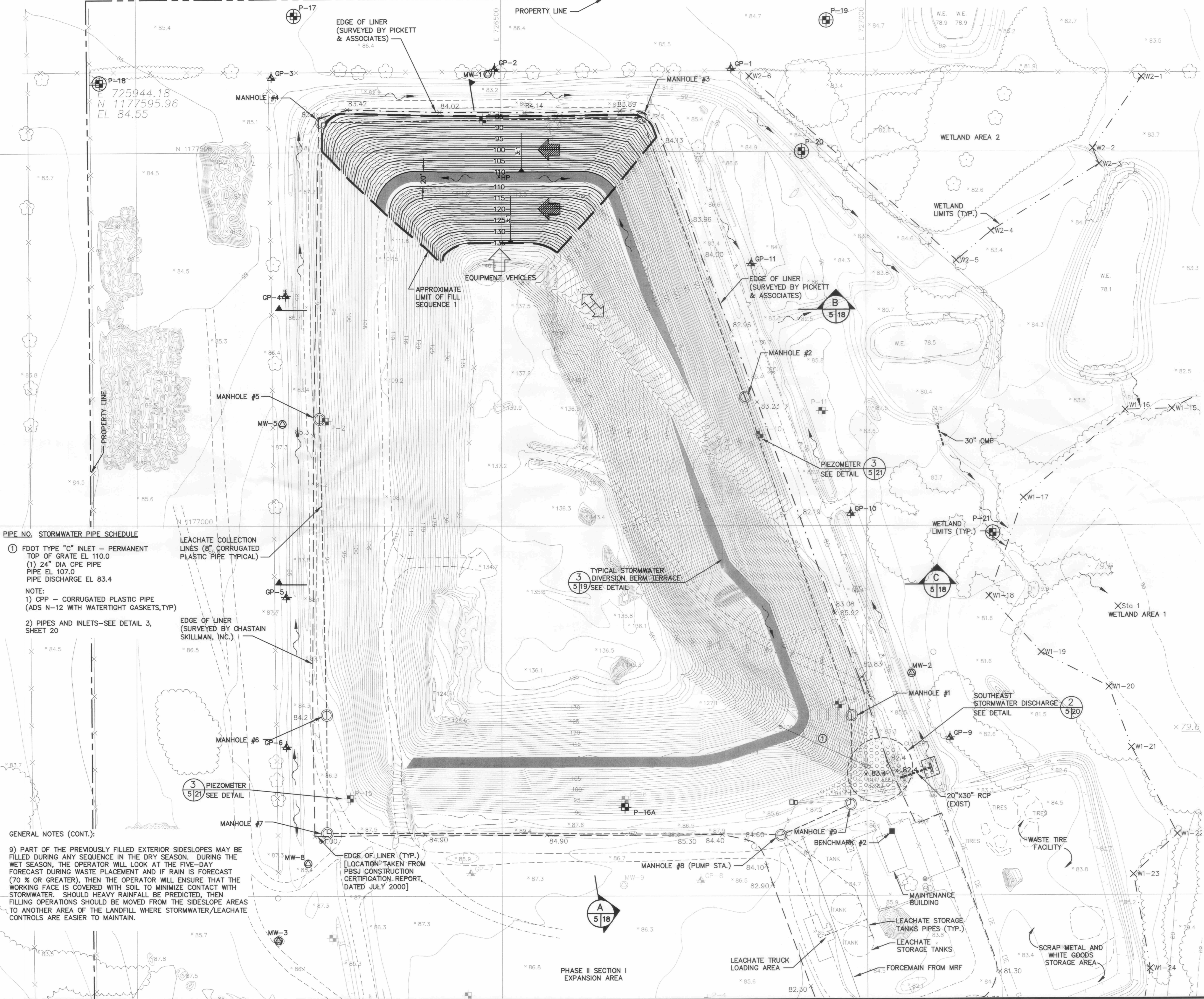




LEGEND:

GP-1	GAS MONITORING PROBE
GP-1	ABANDONED GAS MONITORING PROBE
MW-2	MONITORING WELL
MW-2	ABANDONED MONITORING WELL
P-1	PIEZOMETER
P-1	ABANDONED PIEZOMETER
P-21	NEW PIEZOMETER
MANHOLE	MANHOLE
85.1	SPOT ELEVATION
VEGETATION	VEGETATION
FENCE	FENCE
SURFACE WATER FLOW DIRECTION	SURFACE WATER FLOW DIRECTION
OVERHEAD ELECTRIC	OVERHEAD ELECTRIC
UNDERGROUND ELECTRIC	UNDERGROUND ELECTRIC
GUY WIRE	GUY WIRE
TRAFFIC FLOW DIRECTION	TRAFFIC FLOW DIRECTION
WASTE PROGRESSION DIRECTION	WASTE PROGRESSION DIRECTION
STORMWATER DIVERSION BERM	SEE DETAIL 3 5/19
85	EXISTING GRADE CONTOUR (AS OF 6/16/06)
85	TOP OF INTERMEDIATE COVER CONTOUR (CURRENT EXISTING)
85	TOP OF INTERMEDIATE COVER CONTOUR (FILL SEQUENCE 1)

- GENERAL NOTES:**
- ELEVATIONS AND TOPOGRAPHIC INFORMATION SHOWN DERIVED BY PHOTOGRAMMETRIC METHODS AND PERFORMED BY PICKETT SURVEYING & PHOTOGRAMMETRY, PHOTO DATE 06/16/06.
 - FILLING WILL ONLY CONTINUE ON THE SOUTHSIDE OF THE LANDFILL DURING PERIODS OF WET WEATHER OR AS NEEDED TO MEET OPERATIONAL REQUIREMENTS OF THE FACILITY.
 - THE OPERATORS SHALL CHECK ELEVATIONS OF THE WASTE, BY SURVEY, AND SET FILL STAKES FOR WASTE PLACEMENT. FILL GRADES SHOWN ARE TOP OF INTERMEDIATE COVER.
 - TO MINIMIZE THE EXPOSED AREA OF WASTE AND TO USE THE COVER MATERIALS, KEEP THE WORKING FACE ONLY WIDE ENOUGH TO ACCOMMODATE VEHICLES UNLOADING WASTE MATERIALS.
 - INITIAL COVER, CONSISTING OF 6-INCHES OF SOIL, WILL BE APPLIED AT THE END OF EACH WORK DAY OVER EXPOSED WASTE MATERIAL. TEMPORARY COVER SUCH AS TARPULINS MAYBE USED IF WASTE PLACEMENT OCCURS WITHIN 18 HOURS. INCREASE THE FREQUENCY OF APPLICATION IF WIND OR RAIN DISPERSE WASTE MATERIALS.
 - IN AREAS THAT WILL NOT RECEIVE WASTE WITHIN 180 DAYS, APPLY 12 INCHES OF INTERMEDIATE COVER (CLEAN FILL) OVER THE EXISTING 6-INCHES OF INITIAL COVER.
 - GRADES SHOWN ARE TOP OF INTERMEDIATE COVER, APPROXIMATELY 18 INCHES ABOVE WASTE GRADES.
 - INSPECT THE AREAS WITH COVER SOILS AT LEAST WEEKLY DEPENDING UPON WEATHER CONDITIONS FOR DAMAGED AREAS. REPAIR DAMAGED AREAS AS QUICKLY AS OPERATIONS PERMIT. PLACE SOD, SEED, OR MULCH ON THE REPAIRED AREAS TO MINIMIZE ADDITIONAL DAMAGE.



PIPE NO. STORMWATER PIPE SCHEDULE

1) FDOT TYPE "C" INLET - PERMANENT TOP OF GRATE EL 110.0
 (1) 24" DIA CPE PIPE
 PIPE EL 107.0
 PIPE DISCHARGE EL 83.4

NOTE:
 1) CPP - CORRUGATED PLASTIC PIPE (ADS N-12 WITH WATERTIGHT GASKETS, TYP)
 2) PIPES AND INLETS-SEE DETAIL 3, SHEET 20

LEACHATE COLLECTION LINES (8" CORRUGATED PLASTIC PIPE TYPICAL)

EDGE OF LINER (SURVEYED BY CHASTAIN SKILLMAN, INC.)

GENERAL NOTES (CONT.):

9) PART OF THE PREVIOUSLY FILLED EXTERIOR SIDESLOPES MAY BE FILLED DURING ANY SEQUENCE IN THE DRY SEASON. DURING THE WET SEASON, THE OPERATOR WILL LOOK AT THE FIVE-DAY FORECAST DURING WASTE PLACEMENT AND IF RAIN IS FORECAST (70% OR GREATER), THEN THE OPERATOR WILL ENSURE THAT THE WORKING FACE IS COVERED WITH SOIL TO MINIMIZE CONTACT WITH STORMWATER. SHOULD HEAVY RAINFALL BE PREDICTED, THEN FILLING OPERATIONS SHOULD BE MOVED FROM THE SIDESLOPE AREAS TO ANOTHER AREA OF THE LANDFILL WHERE STORMWATER/LEACHATE CONTROLS ARE EASIER TO MAINTAIN.

EDGE OF LINER (TYP.)
 [LOCATION TAKEN FROM PBSJ CONSTRUCTION CERTIFICATION REPORT, DATED JULY 2000]

DRAWING TITLE: **PHASE I FILL SEQUENCE NO. 1**
 PROJECT TITLE: **HARDEE COUNTY LANDFILL OPERATIONS DRAWINGS**

CUSTOMER: **HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS**

CLIENT: **SCS ENGINEERS**
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 401 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
 813 867-0880 FAX 813 863-9157
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882
 PROJ. NO. 09195033.12
 DWN. BY: SDA
 CHK. BY: CEH
 APP. BY: SRF
 O/A R/W BY: SRF
 APP. BY: CEH

CADD FILE: **993312SEQbuild**
 DATE: **MAY 2007**
 SCALE: **AS SHOWN**
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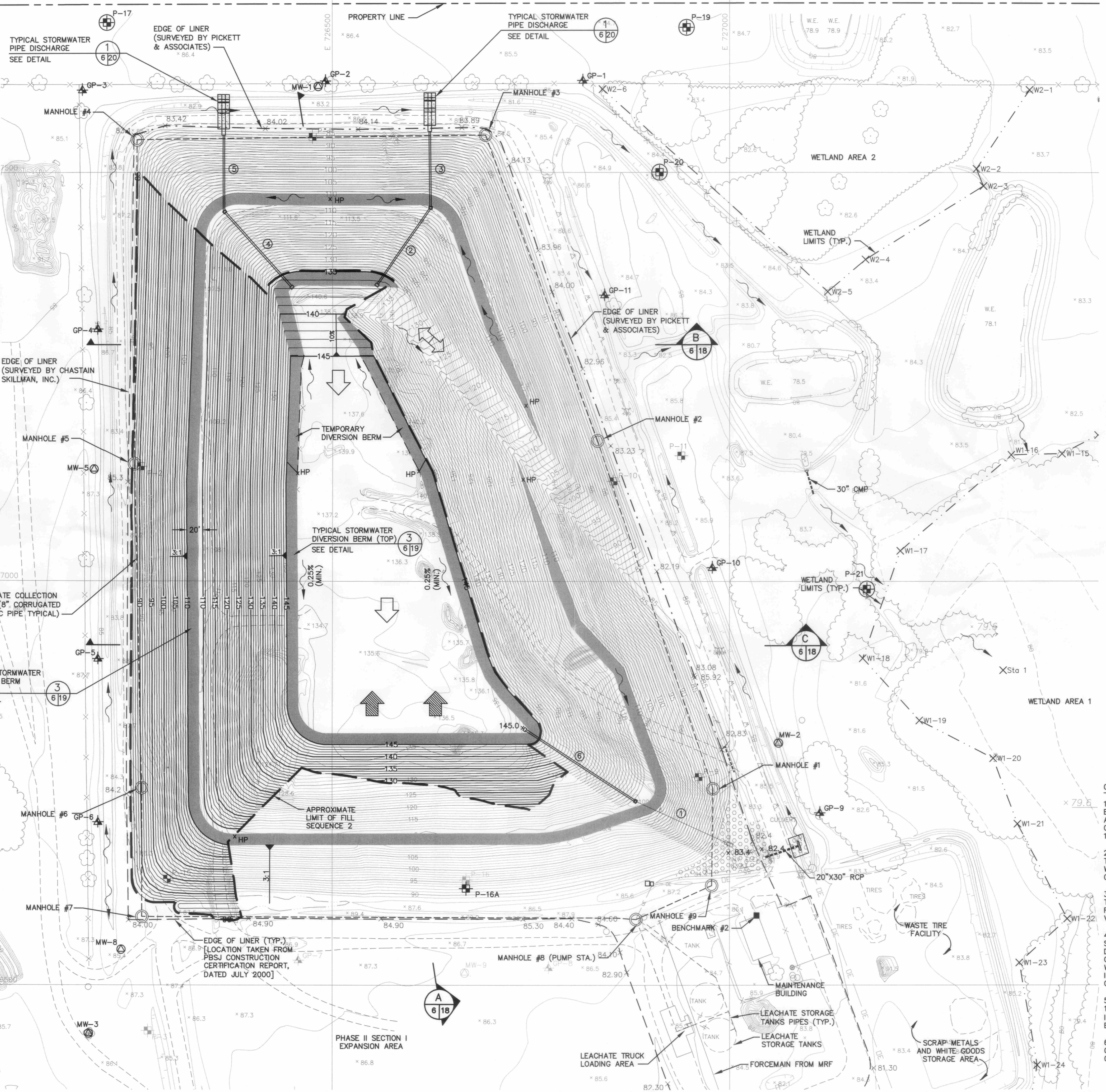
- PIPE NO. STORMWATER PIPE SCHEDULE**
- ② FDOT TYPE "C" INLET - PERMANENT
TOP OF GRATE EL 135.0
(1) 24" DIA CPE PIPE
PIPE DISCHARGE EL 107.0 (1) 24" DIA CPE PIPE
 - ③ FDOT TYPE "C" INLET - PERMANENT
TOP OF GRATE EL 110.0
(1) 24" DIA CPE PIPE
PIPE EL 107.0
PIPE DISCHARGE EL 85.0 (1) 24" DIA CPE PIPE
 - ④ FDOT TYPE "C" INLET - TEMPORARY
TOP OF GRATE EL 135.0
(1) 24" DIA CPE PIPE
PIPE DISCHARGE EL 107.0 (1) 24" DIA CPE PIPE
 - ⑤ FDOT TYPE "C" INLET - TEMPORARY
TOP OF GRATE EL 110.0
(1) 24" DIA CPE PIPE
PIPE EL 107.0
PIPE DISCHARGE EL 85.0 (1) 24" DIA CPE PIPE
 - ⑥ FDOT TYPE "C" INLET - PERMANENT
TOP OF GRATE EL 145.0
(1) 24" DIA CPE PIPE
PIPE EL 142.0
PIPE DISCHARGE EL 107.0

NOTE:
1) CPP - CORRUGATED PLASTIC PIPE (ADS N-12 WITH WATERTIGHT GASKETS, TYP)
2) PIPES AND INLETS-SEE DETAIL 3, SHEET 20

GENERAL NOTES (CONT.):

7) INSPECT THE AREAS WITH COVER SOILS AT LEAST WEEKLY DEPENDING UPON WEATHER CONDITIONS FOR DAMAGED AREAS. REPAIR DAMAGED AREAS AS QUICKLY AS OPERATIONS PERMIT. PLACE SOD, SEED, OR MULCH ON THE REPAIRED AREAS TO MINIMIZE ADDITIONAL DAMAGE.

8) PART OF THE PREVIOUSLY FILLED EXTERIOR SIDESLOPES MAY BE FILLED DURING ANY SEQUENCE IN THE DRY SEASON. DURING THE WET SEASON, THE OPERATOR WILL LOOK AT THE FIVE-DAY FORECAST DURING WASTE PLACEMENT AND IF RAIN IS FORECAST (70% OR GREATER), THEN THE OPERATOR WILL ENSURE THAT THE WORKING FACE IS COVERED WITH SOIL TO MINIMIZE CONTACT WITH STORMWATER. SHOULD HEAVY RAINFALL BE PREDICTED, THEN FILLING OPERATIONS SHOULD BE MOVED FROM THE SIDESLOPE AREAS TO ANOTHER AREA OF THE LANDFILL WHERE STORMWATER/LEACHATE CONTROLS ARE EASIER TO MAINTAIN.



LEGEND:

- ▲ GP-1 GAS MONITORING PROBE
- ▲ GP-1 ABANDONED GAS MONITORING PROBE
- △ MW-2 MONITORING WELL
- △ MW-2 ABANDONED MONITORING WELL
- ⊕ P-1 PIEZOMETER
- ⊕ P-1 ABANDONED PIEZOMETER
- ⊕ P-21 NEW PIEZOMETER
- MANHOLE
- 85.1 X SPOT ELEVATION
- VEGETATION
- FENCE
- SURFACE WATER FLOW DIRECTION
- DE — OVERHEAD ELECTRIC
- UE — UNDERGROUND ELECTRIC
- ← GUY WIRE
- ← TRAFFIC FLOW DIRECTION
- WASTE PROGRESSION DIRECTION
- STORMWATER DIVERSION BERM SEE DETAIL ③ 6/19
- 85 — EXISTING GRADE CONTOUR (AS OF 6/16/06)
- 85 — TOP OF INTERMEDIATE COVER CONTOUR (CURRENT EXISTING OR EXISTING AT END OF PREVIOUS SEQUENCE)
- 85 — TOP OF INTERMEDIATE COVER CONTOUR (FILL SEQUENCE 2)

GENERAL NOTES:

- 1) FILLING WILL ALONG THE SOUTHSIDE UNTIL ELEVATION 125 REACHED; FILLING WILL OCCUR ALONG THE EAST SIDE TO BRING SIDESLOPE TO GRADE AND COMPLETE PERMANENT ROAD TO ELEV. 135.
- 2) THE OPERATORS SHALL CHECK ELEVATIONS OF THE WASTE, BY SURVEY, AND SET FILL STAKES FOR WASTE PLACEMENT. FILL GRADES SHOWN ARE TOP OF INTERMEDIATE COVER.
- 3) TO MINIMIZE THE EXPOSED AREA OF WASTE AND TO USE THE COVER MATERIALS, KEEP THE WORKING FACE ONLY WIDE ENOUGH TO ACCOMMODATE VEHICLES UNLOADING WASTE MATERIALS.
- 4) INITIAL COVER, CONSISTING OF 6-INCHES OF SOIL, WILL BE APPLIED AT THE END OF EACH WORK DAY OVER EXPOSED WASTE MATERIAL. TEMPORARY COVER SUCH AS TARPULINS MAYBE USED IF WASTE PLACEMENT OCCURS WITHIN 18 HOURS. INCREASE THE FREQUENCY OF APPLICATION IF WIND OR RAIN DISPERSE WASTE MATERIALS.
- 5) IN AREAS THAT WILL NOT RECEIVE WASTE WITHIN 180 DAYS, APPLY 12 INCHES FOOT OF INTERMEDIATE COVER (CLEAN FILL) OVER THE EXISTING 6-INCHES OF INITIAL COVER.
- 6) GRADES SHOWN ARE TOP OF INTERMEDIATE COVER, APPROXIMATELY 18 INCHES ABOVE WASTE GRADES.

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 622-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882
PROJ. NO. 091919033.12 DRAWN BY: SDA CHECK BY: CEH
DATE: 05/11/07

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
JUN - 5 2007
SOUTHWEST DISTRICT TAMPA

PHASE I FILL SEQUENCE NO. 2
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS
HARDEE COUNTY LANDFILL OPERATIONS DRAWINGS

6 of 26



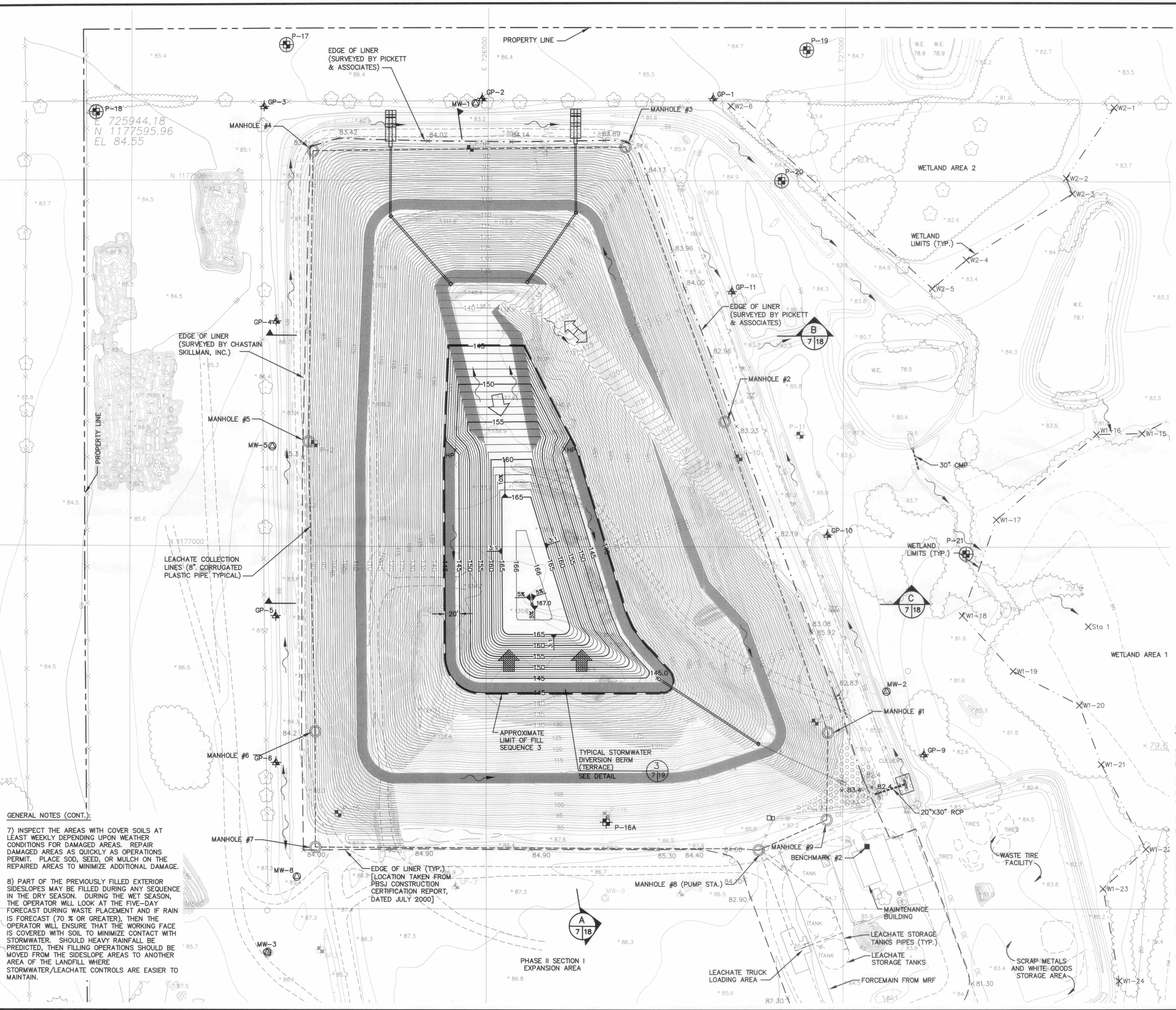
LEGEND:

- GP-1 GAS MONITORING PROBE
- GP-1 ABANDONED GAS MONITORING PROBE
- MW-2 MONITORING WELL
- MW-2 ABANDONED MONITORING WELL
- P-1 PIEZOMETER
- P-1 ABANDONED PIEZOMETER
- P-21 NEW PIEZOMETER
- MANHOLE
- 85.1 SPOT ELEVATION
- VEGETATION
- FENCE
- SURFACE WATER FLOW DIRECTION
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC
- GUY WIRE
- TRAFFIC FLOW DIRECTION
- WASTE PROGRESSION DIRECTION
- STORMWATER DIVERSION BERM SEE DETAIL (3/7/18)
- EXISTING CONTOUR (AS OF 6/16/2006)
- TOP OF INTERMEDIATE COVER CONTOUR (CURRENT EXISTING OR EXISTING AT END OF PREVIOUS SEQUENCE)
- TOP OF INTERMEDIATE COVER CONTOUR (FILL SEQUENCE 3)

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
JUN -5 2007
SOUTHWEST DISTRICT TAMPA

GENERAL NOTES:

- 1) FILLING WILL ONLY CONTINUE ON THE SOUTHSIDE OF THE LANDFILL DURING PERIODS OF WET WEATHER OR AS NEEDED TO MEET OPERATIONAL REQUIREMENTS OF THE FACILITY.
- 2) THE OPERATORS SHALL CHECK ELEVATIONS OF THE WASTE, BY SURVEY, AND SET FILL STAKES FOR WASTE PLACEMENT. FILL GRADES SHOWN ARE TOP OF INTERMEDIATE COVER.
- 3) TO MINIMIZE THE EXPOSED AREA OF WASTE AND TO USE THE COVER MATERIALS, KEEP THE WORKING FACE ONLY WIDE ENOUGH TO ACCOMMODATE VEHICLES UNLOADING WASTE MATERIALS.
- 4) INITIAL COVER, CONSISTING OF 6-INCHES OF SOIL, WILL BE APPLIED AT THE END OF EACH WORK DAY OVER EXPOSED WASTE MATERIAL. TEMPORARY COVER SUCH AS TARPULINS MAYBE USED IF WASTE PLACEMENT OCCURS WITHIN 18 HOURS. INCREASE THE FREQUENCY OF APPLICATION IF WIND OR RAIN DISPERSE WASTE MATERIALS.
- 5) IN AREAS THAT WILL NOT RECEIVE WASTE WITHIN 180 DAYS, APPLY 12 INCHES FOOT OF INTERMEDIATE COVER (CLEAN FILL) OVER THE EXISTING 6-INCHES OF INITIAL COVER.
- 6) GRADES SHOWN ARE TOP OF INTERMEDIATE COVER, APPROXIMATELY 18 INCHES ABOVE WASTE GRADES.



GENERAL NOTES (CONT.):

- 7) INSPECT THE AREAS WITH COVER SOILS AT LEAST WEEKLY DEPENDING UPON WEATHER CONDITIONS FOR DAMAGED AREAS. REPAIR DAMAGED AREAS AS QUICKLY AS OPERATIONS PERMIT. PLACE SOIL, SEED, OR MULCH ON THE REPAIRED AREAS TO MINIMIZE ADDITIONAL DAMAGE.
- 8) PART OF THE PREVIOUSLY FILLED EXTERIOR SIDESLOPES MAY BE FILLED DURING ANY SEQUENCE IN THE DRY SEASON. DURING THE WET SEASON, THE OPERATOR WILL LOOK AT THE FIVE-DAY FORECAST DURING WASTE PLACEMENT AND IF RAIN IS FORECAST (70 % OR GREATER), THEN THE OPERATOR WILL ENSURE THAT THE WORKING FACE IS COVERED WITH SOIL TO MINIMIZE CONTACT WITH STORMWATER. SHOULD HEAVY RAINFALL BE PREDICTED, THEN FILLING OPERATIONS SHOULD BE MOVED FROM THE SIDESLOPE AREAS TO ANOTHER AREA OF THE LANDFILL WHERE STORMWATER/LEACHATE CONTROLS ARE EASIER TO MAINTAIN.

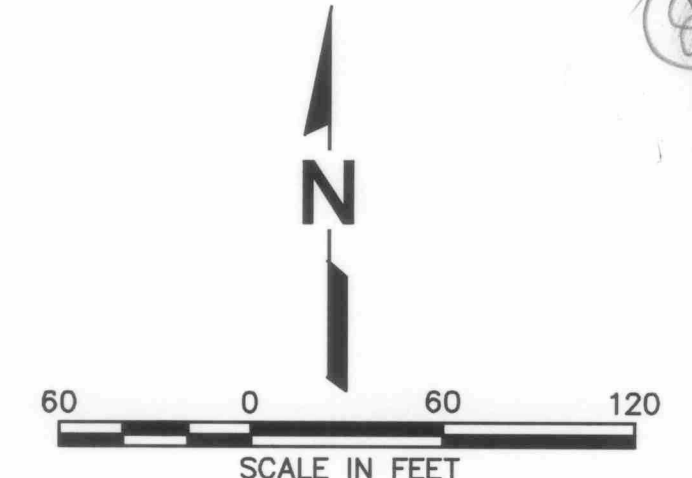
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DRAWING TITLE: **PHASE I FILL SEQUENCE NO. 3**
 PROJECT TITLE: **HARDEE COUNTY LANDFILL OPERATIONS DRAWINGS**

CLIENT: **HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS**

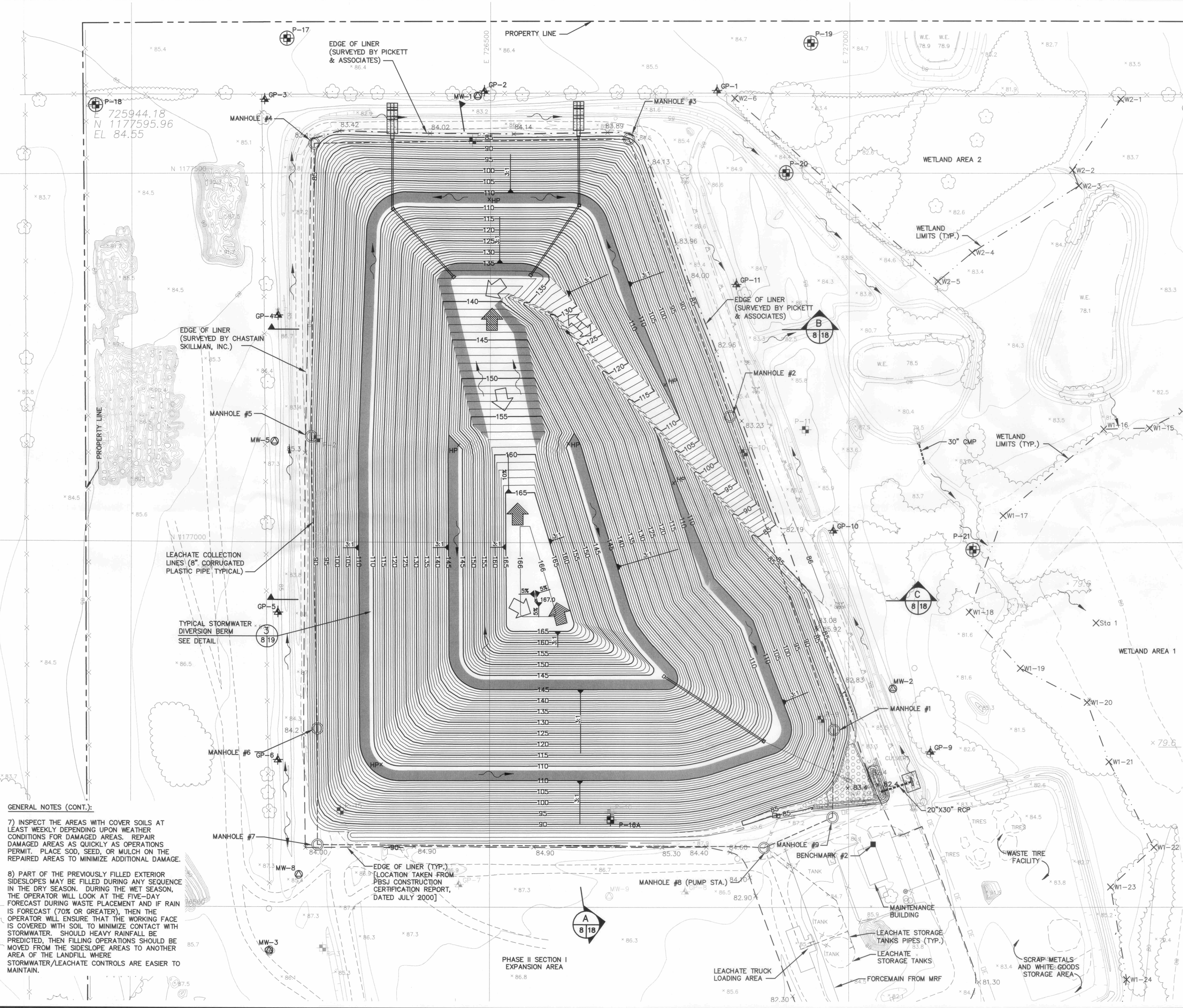
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 DATE: **MAY 2007**
 SCALE: **AS SHOWN**
 DRAWING NO. **7 of 26**

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 4611 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
 813-971-0000 FAX 813-971-0777
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892
 DATE: 07/16/2006
 DRAWN BY: SDA
 CHECKED BY: CEH
 APPR. BY: CEH



- LEGEND:**
- ▲ GP-1 GAS MONITORING PROBE
 - ▲ GP-1 ABANDONED GAS MONITORING PROBE
 - △ MW-2 MONITORING WELL
 - △ MW-2 ABANDONED MONITORING WELL
 - ⊕ P-1 PIEZOMETER
 - ⊕ P-1 ABANDONED PIEZOMETER
 - ⊕ P-21 NEW PIEZOMETER
 - MANHOLE
 - 85.1 × SPOT ELEVATION
 - VEGETATION
 - FENCE
 - SURFACE WATER FLOW DIRECTION
 - OE OVERHEAD ELECTRIC
 - UE UNDERGROUND ELECTRIC
 - GUY WIRE
 - TRAFFIC FLOW DIRECTION
 - WASTE PROGRESSION DIRECTION
 - STORMWATER DIVERSION BERM SEE DETAIL (3) 819
 - EXISTING CONTOUR (AS OF 6/16/06)
 - FINAL BUILDOUT CONTOUR (TOP OF INTERMEDIATE COVER)
 - FINAL BUILDOUT CONTOUR (TOP OF INTERMEDIATE COVER)

- GENERAL NOTES:**
- 1) FILL ACCESS ROAD WITH LOOSE FILL TO ACHIEVE GRADES SHOWN ON SOUTH SIDE.
 - 2) THE OPERATORS SHALL CHECK ELEVATIONS OF THE WASTE, BY SURVEY, AND SET FILL STAKES FOR WASTE PLACEMENT. FILL GRADES SHOWN ARE TOP OF INTERMEDIATE COVER.
 - 3) TO MINIMIZE THE EXPOSED AREA OF WASTE AND TO USE THE COVER MATERIALS, KEEP THE WORKING FACE ONLY WIDE ENOUGH TO ACCOMMODATE VEHICLES UNLOADING WASTE MATERIALS.
 - 4) INITIAL COVER, CONSISTING OF 6-INCHES OF SOIL, WILL BE APPLIED AT THE END OF EACH WORK DAY OVER EXPOSED WASTE MATERIAL. TEMPORARY COVER SUCH AS TARPULINS MAYBE USED IF WASTE PLACEMENT OCCURS WITHIN 18 HOURS. INCREASE THE FREQUENCY OF APPLICATION IF WIND OR RAIN DISPERSE WASTE MATERIALS.
 - 5) IN AREAS THAT WILL NOT RECEIVE WASTE WITHIN 180 DAYS, APPLY 12 INCHES OF INTERMEDIATE COVER (CLEAN FILL) OVER THE EXISTING 6-INCHES OF INITIAL COVER.
 - 6) GRADES SHOWN ARE TOP OF INTERMEDIATE COVER, APPROXIMATELY 18 INCHES ABOVE WASTE GRADES.



- GENERAL NOTES (CONT.):**
- 7) INSPECT THE AREAS WITH COVER SOILS AT LEAST WEEKLY DEPENDING UPON WEATHER CONDITIONS FOR DAMAGED AREAS. REPAIR DAMAGED AREAS AS QUICKLY AS OPERATIONS PERMIT. PLACE SOD, SEED, OR MULCH ON THE REPAIRED AREAS TO MINIMIZE ADDITIONAL DAMAGE.
 - 8) PART OF THE PREVIOUSLY FILLED EXTERIOR SIDESLOPES MAY BE FILLED DURING ANY SEQUENCE IN THE DRY SEASON. DURING THE WET SEASON, THE OPERATOR WILL LOOK AT THE FIVE-DAY FORECAST DURING WASTE PLACEMENT AND IF RAIN IS FORECAST (70% OR GREATER), THEN THE OPERATOR WILL ENSURE THAT THE WORKING FACE IS COVERED WITH SOIL TO MINIMIZE CONTACT WITH STORMWATER. SHOULD HEAVY RAINFALL BE PREDICTED, THEN FILLING OPERATIONS SHOULD BE MOVED FROM THE SIDESLOPE AREAS TO ANOTHER AREA OF THE LANDFILL WHERE STORMWATER/LEACHATE CONTROLS ARE EASIER TO MAINTAIN.

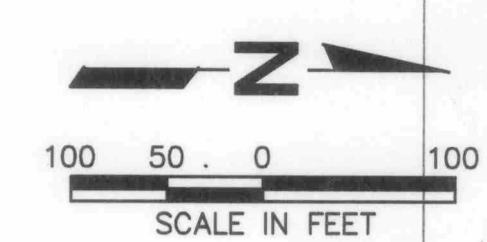
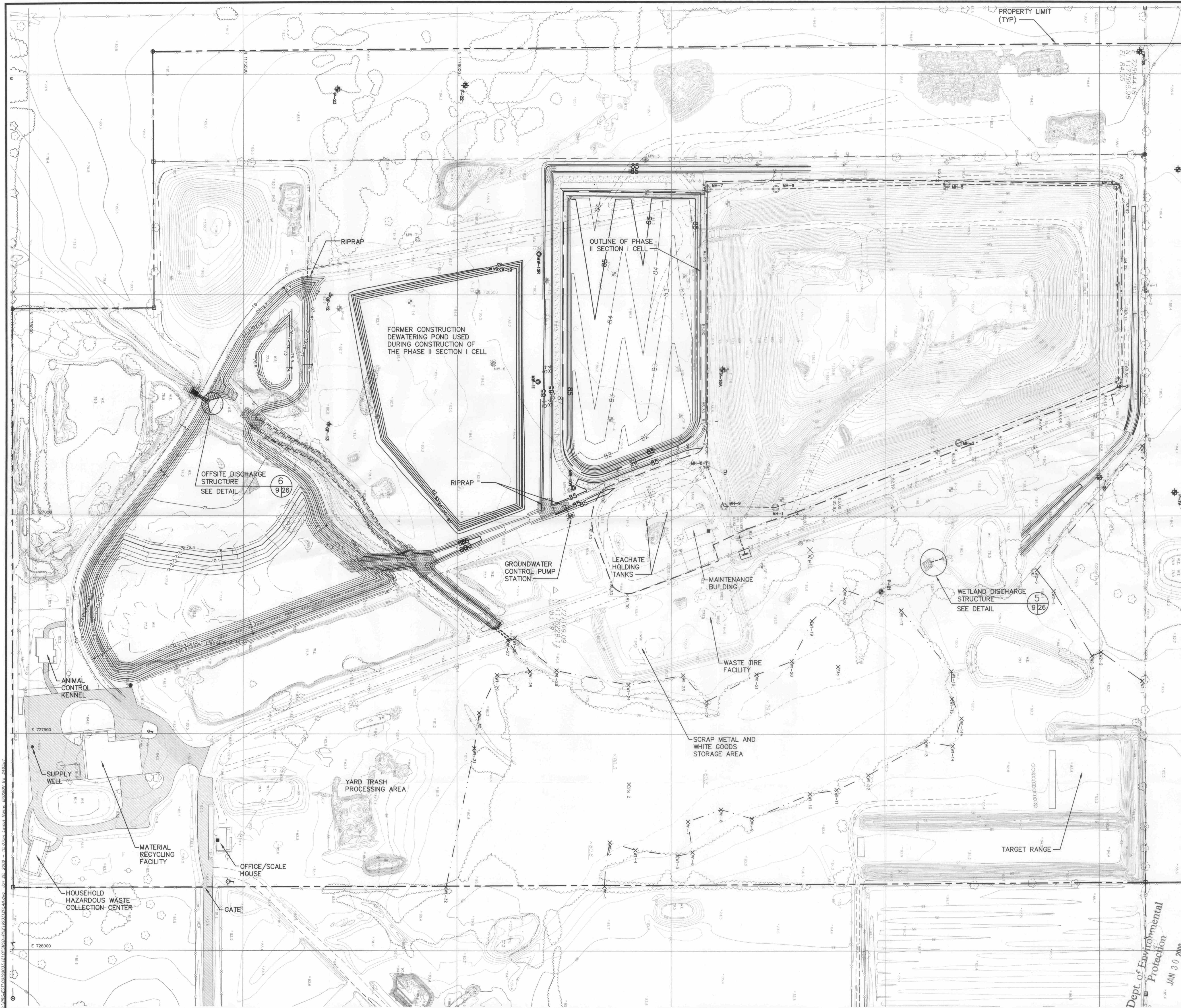
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DRAWING TITLE: **PHASE I FINAL BUILDOUT (TOP OF INTERMEDIATE COVER)**
 PROJECT TITLE: **HARDEE COUNTY LANDFILL OPERATIONS DRAWINGS**

CUSTOMER: **HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS**

CLIENT: **SCS ENGINEERS**
 STEARNS, CONTRAND AND SCHMIDT CONSULTING ENGINEERS
 4011 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
 813 621-0600 FAX 813 623-6757
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892
 DATE: 5/19/07 BY: SDA APP: B/SRF
 DATE: 5/19/07 BY: CEH APP: B/CEH

CADD FILE: 993312SEQbuild
 DATE: MAY 2007
 SCALE: AS SHOWN
 DRAWING NO. **8** of 26
 FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 JUN - 5 2007
 SOUTHWEST DISTRICT TAMPA



LEGEND

- MW-7 EXISTING GROUNDWATER MONITORING WELL
- MW-9 ABANDONED GROUNDWATER MONITORING WELL
- MW-11 NEW GROUNDWATER MONITORING WELL
- GP-6 EXISTING GAS MONITORING PROBE
- GP-7 ABANDONED GAS MONITORING PROBE
- GP-12 NEW GAS MONITORING PROBE
- P-15 EXISTING PIEZOMETER
- P-3 ABANDONED PIEZOMETER
- P-22 NEW PIEZOMETER
- EXISTING MANHOLE

AERIAL PHOTOGRAPHY PERFORMED BY:
 PICKETT SURVEYING & PHOTOGRAMMETRY
 475 S. 1ST AVE., BARTOW, FL 33830
 (863) 533-9095
 PHOTO DATE: 06/16/06



REV	DATE	DESCRIPTION	BY
1	1/30/08	ADDED MW-10R AND MW-12R	SRF

DRAWING TITLE
 PHASE II LAND PHASE II
 SITE PLAN

PROJECT TITLE
 HARDEE COUNTY
 LANDFILL EXPANSION
 OPERATIONS
 DRAWINGS

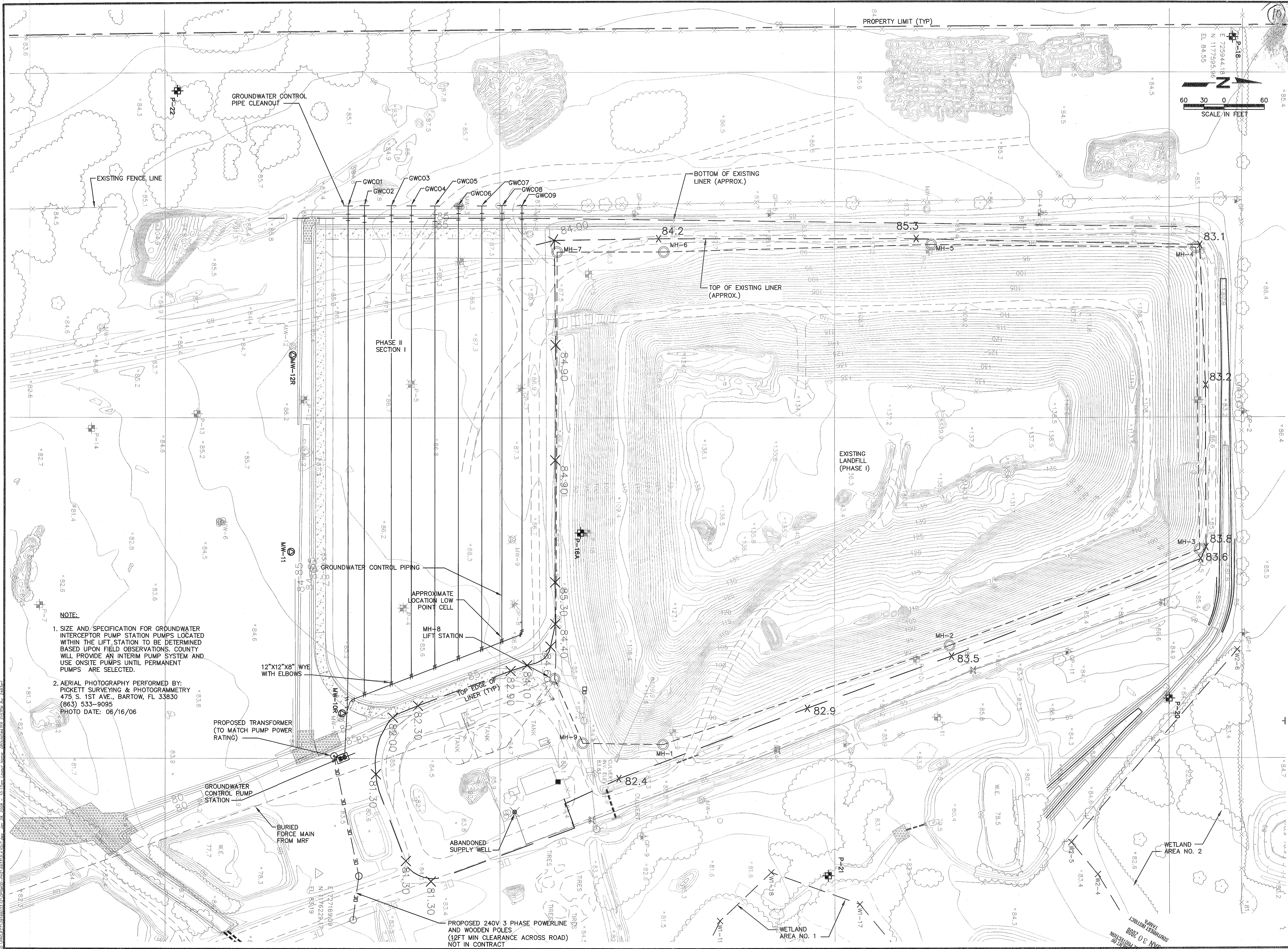
CLIENT
 HARDEE COUNTY
 BOARD OF
 COUNTY COMMISSIONERS

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 4041 PARK OAKS BLDG., SUITE 100, TAMPA, FL 33610
 813 821-0880 FAX 813 822-4757
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.12
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 CHK. BY: CEH
 O/A: RWB BY: SRF
 APP. BY: CEH

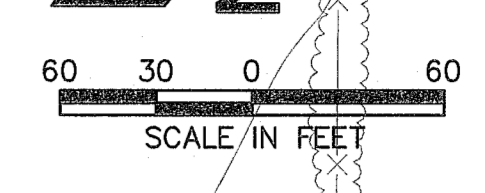
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DATE: MAY 2007
SCALE: AS SHOWN
DRAWING NO. 9 of 26

Dept. of Environmental
 Protection
 JAN 30 2008
 Southwest District

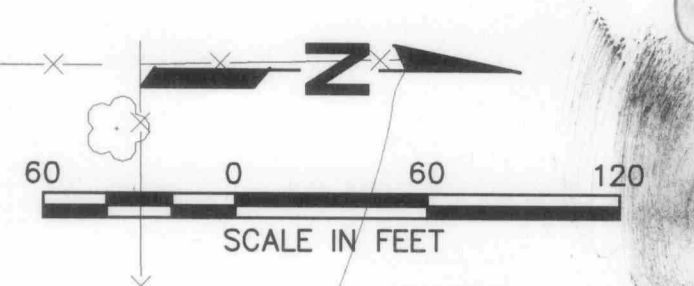
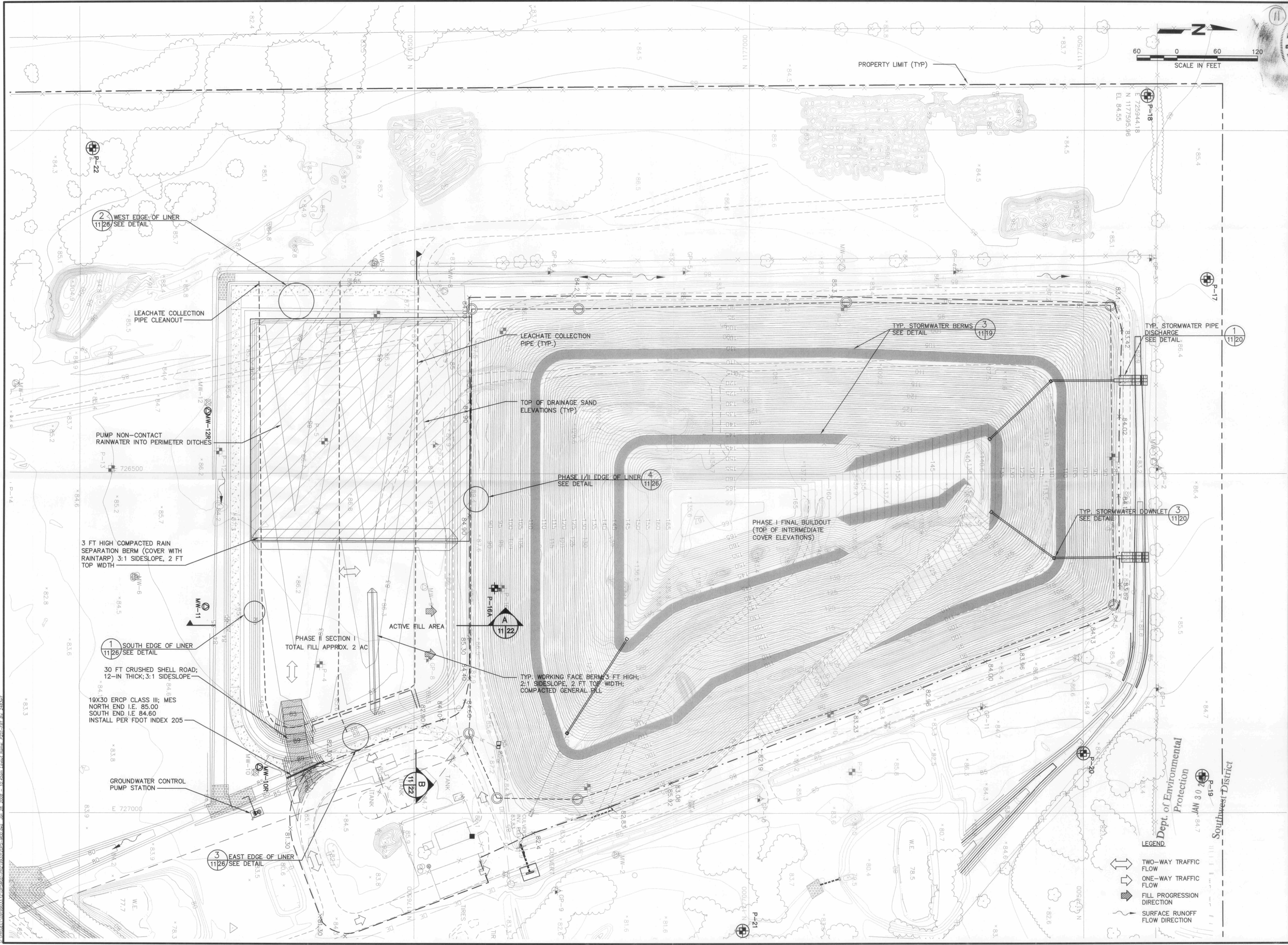


NOTE:

1. SIZE AND SPECIFICATION FOR GROUNDWATER INTERCEPTOR PUMP STATION PUMPS LOCATED WITHIN THE LIFT STATION TO BE DETERMINED BASED UPON FIELD OBSERVATIONS. COUNTY WILL PROVIDE AN INTERIM PUMP SYSTEM AND USE ONSITE PUMPS UNTIL PERMANENT PUMPS ARE SELECTED.
2. AERIAL PHOTOGRAPHY PERFORMED BY: PICKETT SURVEYING & PHOTOGRAMMETRY 475 S. 1ST AVE., BARTOW, FL 33830 (863) 533-9095 PHOTO DATE: 06/16/06



BY	DESCRIPTION
1/30/08	ADDED MW-10R AND MW-12R SRF
REV	DATE
1	1/30/08
DRAWING TITLE PHASE II SECTION I GROUNDWATER CONTROL SYSTEM	
PROJECT TITLE HARDEE COUNTY LANDFILL OPERATIONS DRAWINGS	
CUSTOMER HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	
CLIENT SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610 813.821.0080 FAX 813.822.6767 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892 DATE: 09/19/03 3.12 DIV: SDV CHK: CEH APP: CEH	
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BY	DESCRIPTION	DATE	REV
SRF	ADDED MW-10R AND MW-12R	1/30/08	1

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PROJECT TITLE		FILL SEQUENCE NO. 1
PROJECT TITLE		HARDEE COUNTY LANDFILL
PROJECT TITLE		OPERATIONS DRAWINGS

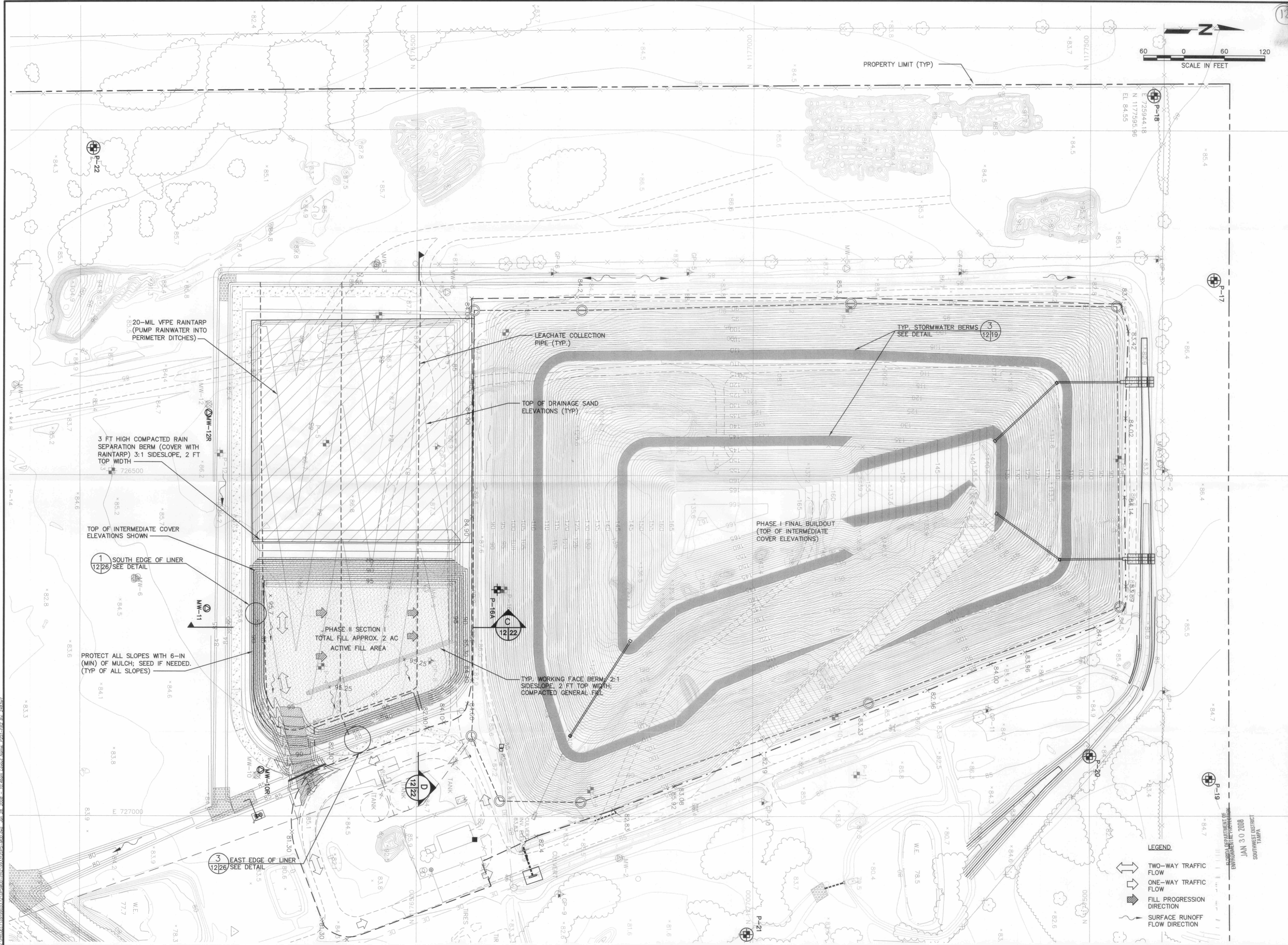
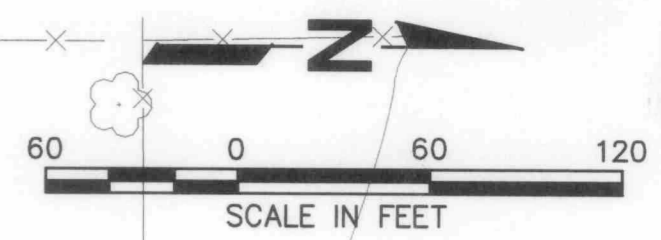
CUSTOMER	HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS
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CLIENT	HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS
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CONTRACTOR	SCS ENGINEERS STEARNIS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 4041 PARK OAKS BLDG., SUITE 100, TAMPA, FL 33610 813 821-0880 FAX 813 822-6757 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882
DATE	MAY 2007
SCALE	AS SHOWN
DRAWING NO.	9933120PS-MOD

DATE	MAY 2007
SCALE	AS SHOWN
DRAWING NO.	9933120PS-MOD
DRAWING NO.	11 of 26

- LEGEND**
- TWO-WAY TRAFFIC FLOW
 - ONE-WAY TRAFFIC FLOW
 - FILL PROGRESSION DIRECTION
 - SURFACE RUNOFF FLOW DIRECTION



REV	DATE	DESCRIPTION
1	1/30/06	ADDED MW-10R AND MW-12R

**PHASE II - SECTION I
FILL SEQUENCE NO. 2**

**HARDEE COUNTY
LANDFILL
OPERATIONS DRAWINGS**

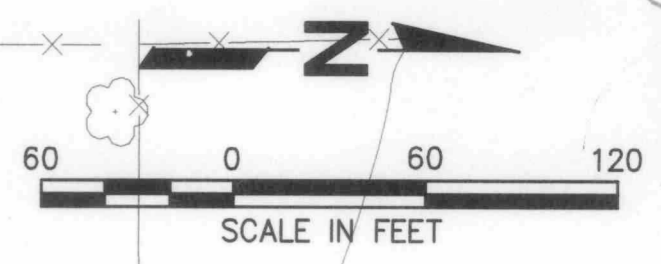
**HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS**

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 881-0880 FAX 813 881-8575
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00006892
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DWN. BY: SDA
CHK. BY: CEH
APP. BY: CEH

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DATE: MAY 2007
SCALE: AS SHOWN
DRAWING NO. **12** of 26

- LEGEND**
- TWO-WAY TRAFFIC FLOW
 - ONE-WAY TRAFFIC FLOW
 - FILL PROGRESSION DIRECTION
 - SURFACE RUNOFF FLOW DIRECTION

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
JAN 03 2008
SOUTHWEST DISTRICT
TAMPA



REV	DATE	DESCRIPTION
1	08/20/09	ADDED MW-TOR AND MW-12R

DRAWING TITLE
PHASE II - SECTION I
FILL SEQUENCE NO. 3

PROJECT TITLE
HARDEE COUNTY
LANDFILL
OPERATIONS DRAWINGS

CLIENT
HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS

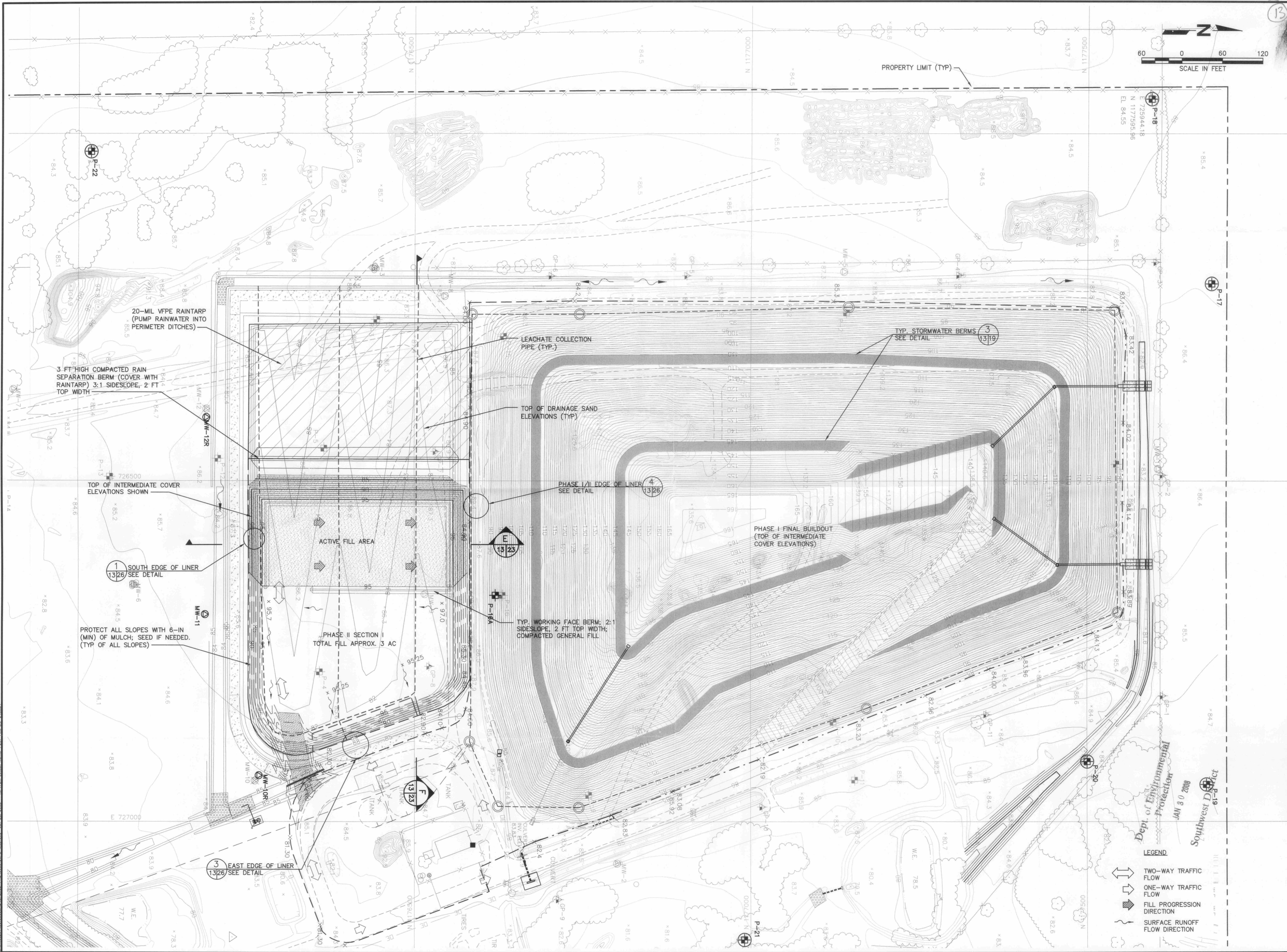
SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
 4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
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 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004982
 PROJ. NO. 09199033.12 DIV. BY: SDA
 DATE: JAN 8 0 2008
 DRAWN BY: SDA
 CHECK BY: CEH
 APPR. BY: CEH

CADD FILE:
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DATE:
 MAY 2007

SCALE:
 AS SHOWN

DRAWING NO.
13 of 26





REV	DATE	DESCRIPTION
1	1/30/08	ADDED MW-10R AND MW-12R SRF

DRAWING TITLE
PHASE II - SECTION I
FILL SEQUENCE NO. 4

PROJECT TITLE
HARDEE COUNTY
LANDFILL
OPERATIONS DRAWINGS

CLIENT
HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS

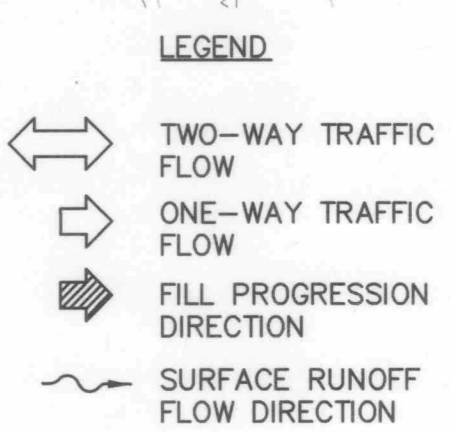
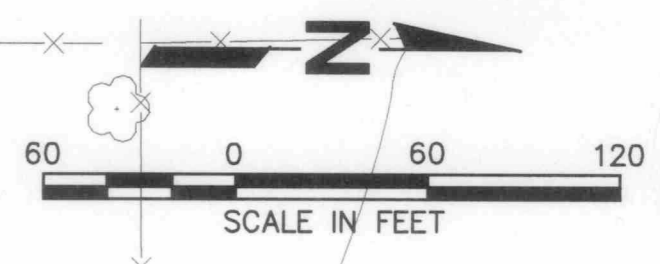
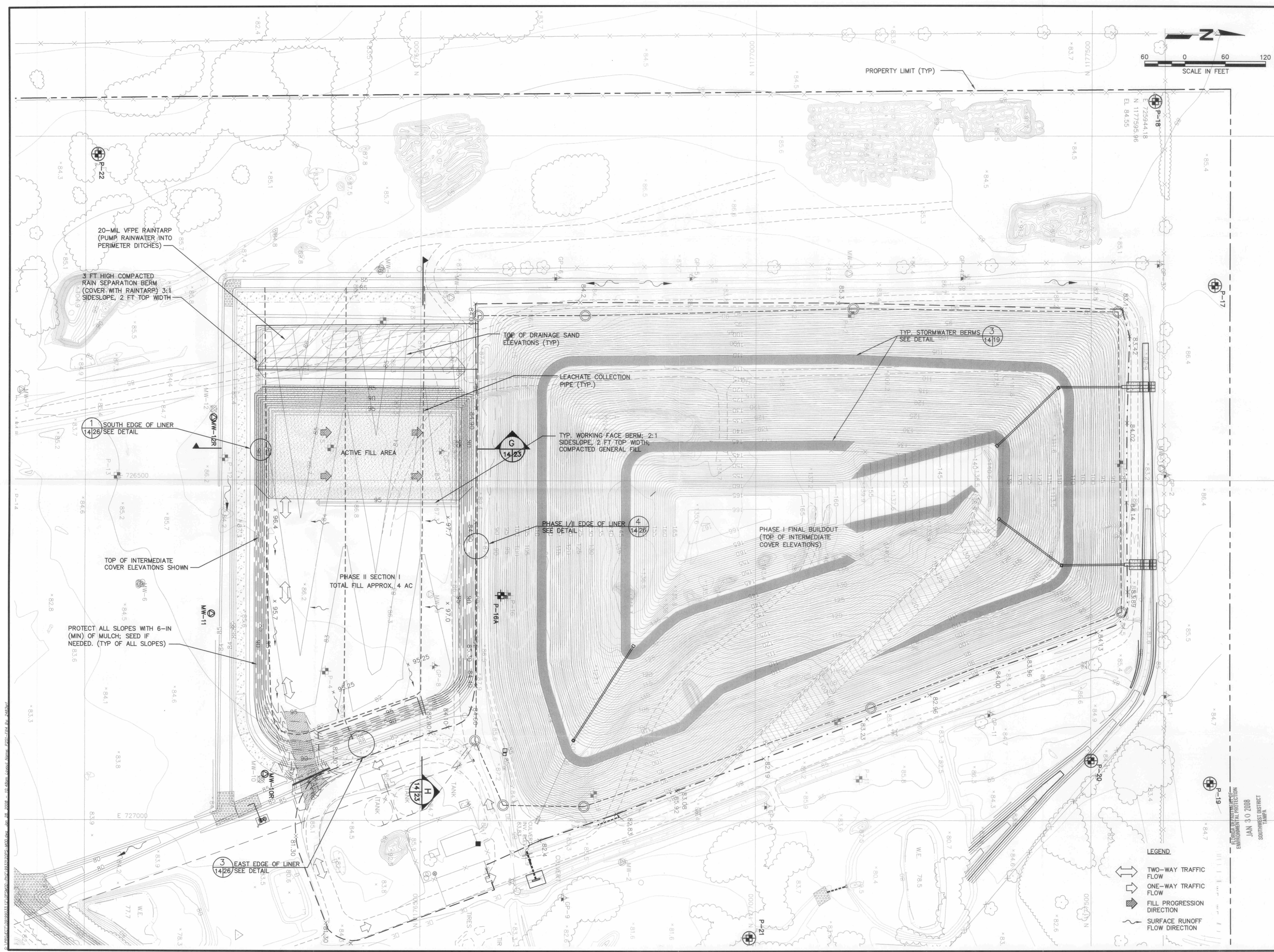
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STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
 4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
 813 871-0080 FAX 813 872-6757
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882
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 CHECK BY: CEH
 APP. BY: CEH

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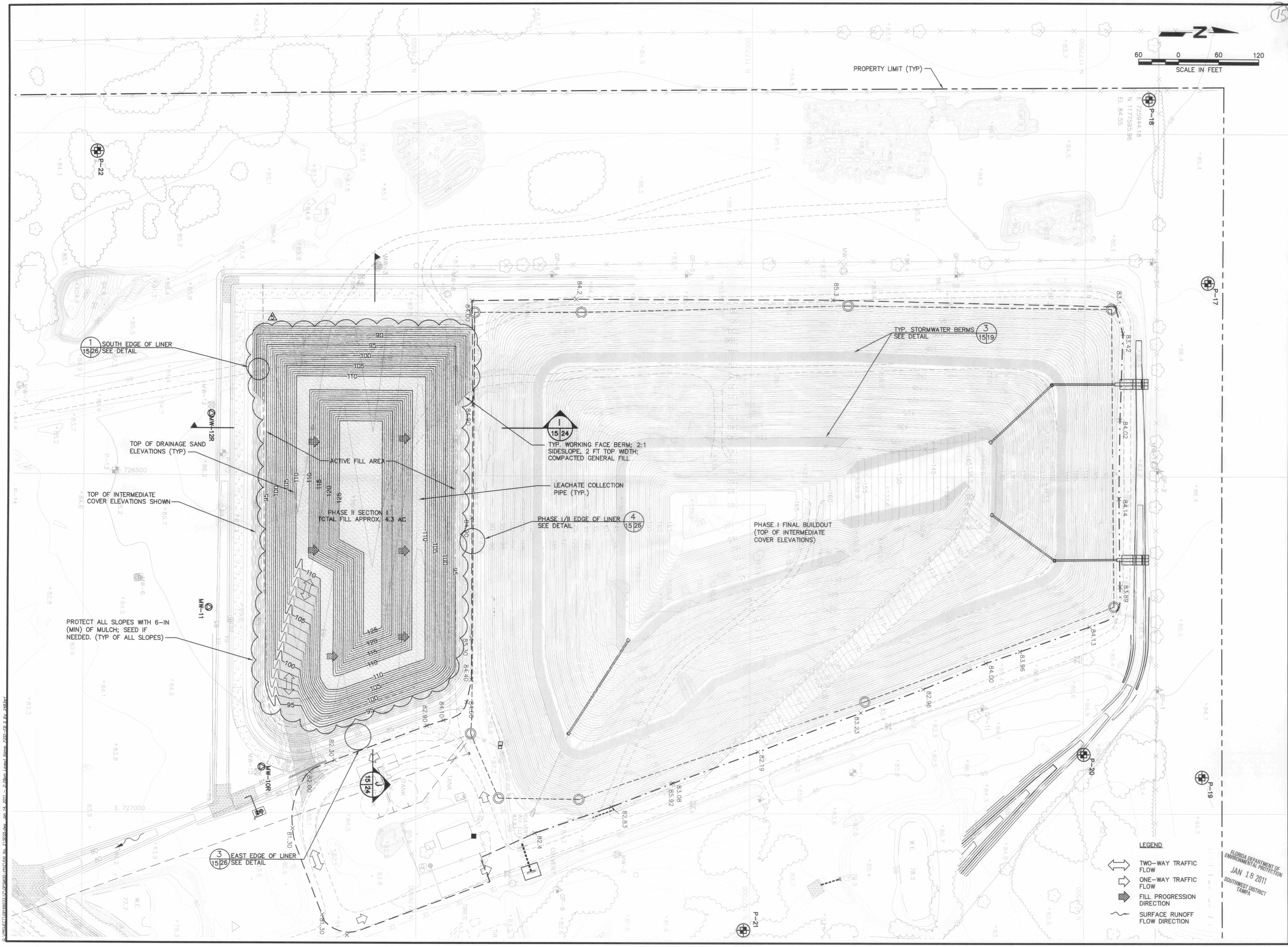
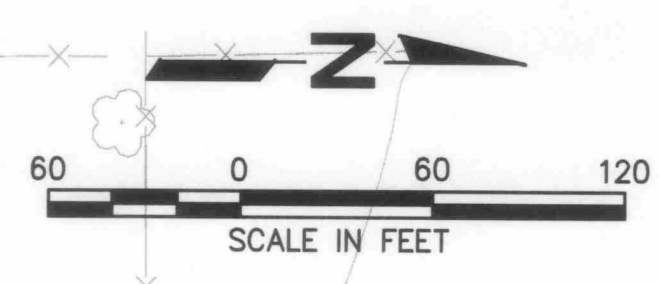
DATE:
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SCALE:
 AS SHOWN

DRAWING NO.
14 of 26



FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
 JAN 30 2008
 SOUTHWEST DISTRICT
 TAMPA



REV	DATE	DESCRIPTION	BY
1	1/30/08	ADDED MW-10R AND MW-12R	SRF
2	05/14/10	REVISED FILL SEQUENCE	SRF
3	08/16/10	REVISED PER FDP RAI NO. 1	SRF
4	01/14/11	REVISED PER FDP RAI NO. 2	SRF

DRAWING TITLE
PHASE II - SECTION I
FILL SEQUENCE NO. 5

PROJECT TITLE
HARDEE COUNTY
LANDFILL
OPERATIONS DRAWINGS

CLIENT
HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 821-0080 FAX 813 825-8757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00008822
PRCL. NO. 09199033.12
OWN. BY: SDA
CHK. BY: CEH
APP. BY: SRF
CEH

CADD FILE:
9933120PS-MOD

DATE:
MAY 2007

SCALE:
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DRAWING NO.
15 of 26

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
JAN 18 2011
SOUTHWEST DISTRICT TAMPA

- LEGEND**
- TWO-WAY TRAFFIC FLOW
 - ONE-WAY TRAFFIC FLOW
 - FILL PROGRESSION DIRECTION
 - SURFACE RUNOFF FLOW DIRECTION

PROTECT ALL SLOPES WITH 6-IN (MIN) OF MULCH; SEED IF NEEDED. (TYP OF ALL SLOPES)

TOP OF DRAINAGE SAND ELEVATIONS (TYP)

TOP OF INTERMEDIATE COVER ELEVATIONS SHOWN

PHASE II SECTION I
TOTAL FILL APPROX. 4.3 AC

TYP. WORKING FACE BERM; 2:1
SIDESLOPE, 2 FT TOP WIDTH;
COMPACTED GENERAL FILL

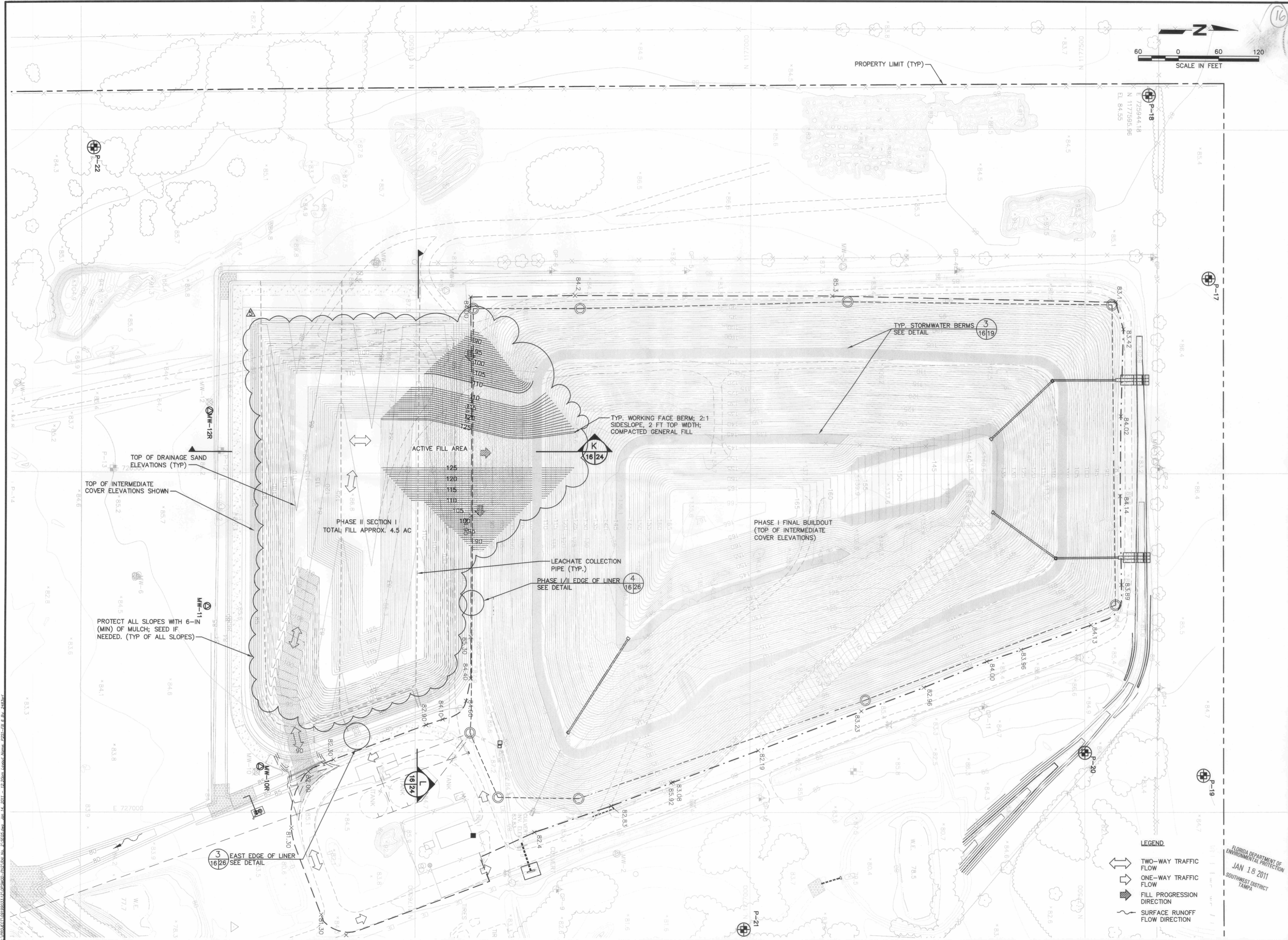
LEACHATE COLLECTION
PIPE (TYP.)

PHASE I/II EDGE OF LINER
SEE DETAIL

TYP. STORMWATER BERMS
SEE DETAIL

PHASE I FINAL BUILDOUT
(TOP OF INTERMEDIATE
COVER ELEVATIONS)

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REV	DATE	DESCRIPTION	BY
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2	05/14/10	REVISED FILL SEQUENCE	SRF
3	08/16/10	REVISED PER FDEP RAI NO. 1	SRF
4	01/14/11	REVISED PER FDEP RAI NO. 2	SRF

DRAWING TITLE
PHASE II - SECTION I
FILL SEQUENCE NO. 6

PROJECT TITLE
HARDEE COUNTY
LANDFILL
OPERATIONS DRAWINGS

CLIENT
HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
 813 881-0880 FAX 813 882-8757
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882
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 DSN. BY: SRF
 DWN. BY: SDA
 CHK. BY: CEH
 APP. BY: CEH

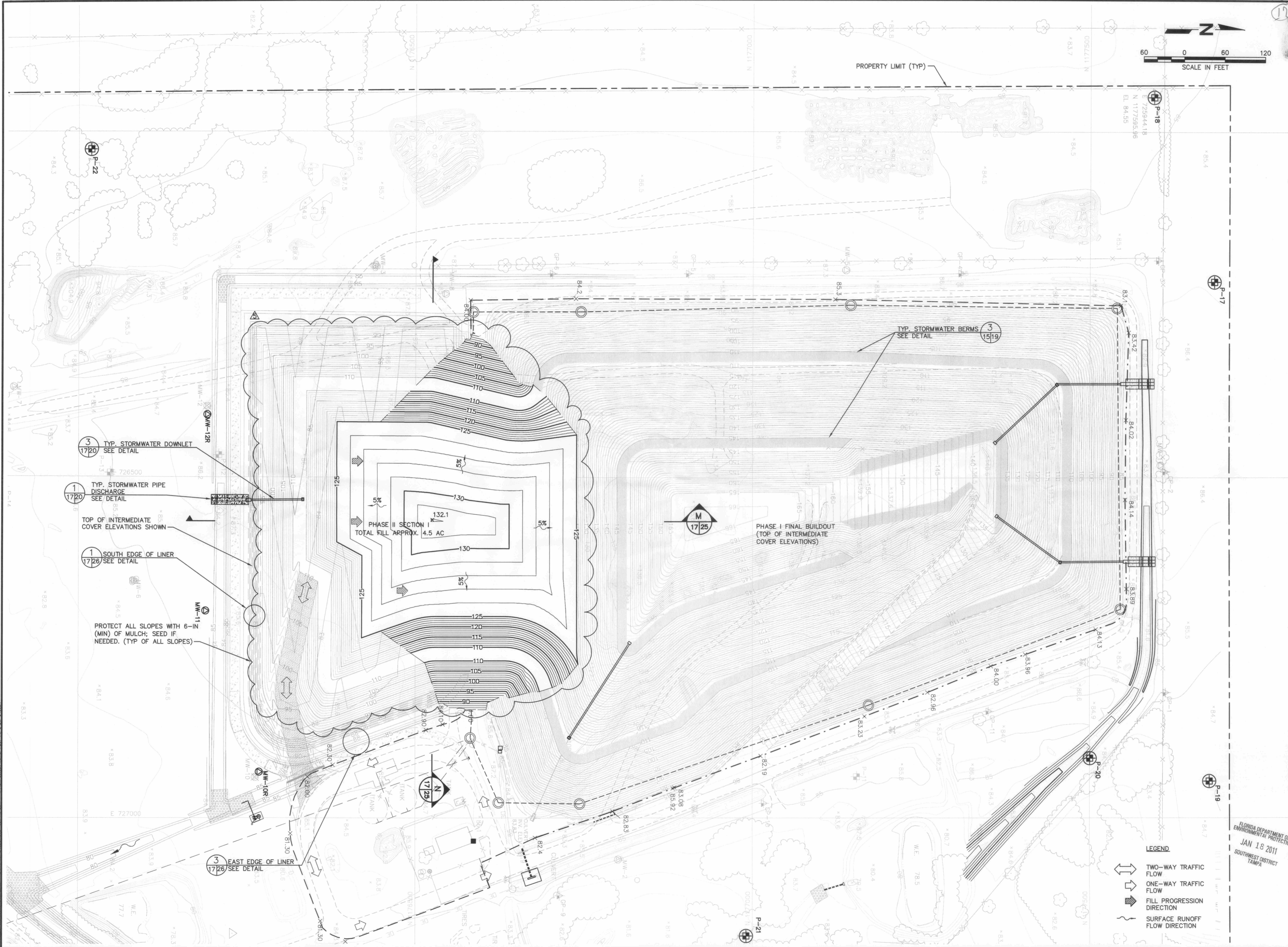
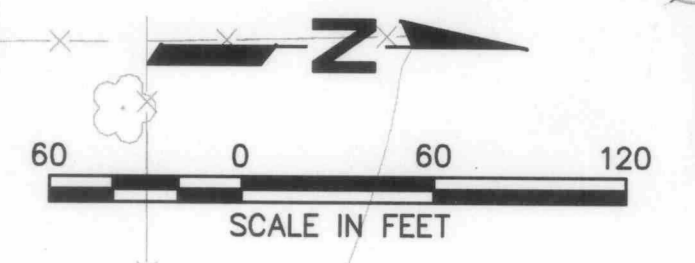
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 9933120PS-MOD

DATE:
 MAY 2007

SCALE:
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DRAWING NO.
16 of 26

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 JAN 18 2011
 SOUTHWEST DISTRICT TAMPA



- 3 TYP. STORMWATER DOWNLET
SEE DETAIL
- 1 TYP. STORMWATER PIPE DISCHARGE
SEE DETAIL
- TOP OF INTERMEDIATE COVER ELEVATIONS SHOWN
- 1 SOUTH EDGE OF LINER
SEE DETAIL
- PROTECT ALL SLOPES WITH 6-IN (MIN) OF MULCH; SEED IF NEEDED. (TYP OF ALL SLOPES)
- 3 EAST EDGE OF LINER
SEE DETAIL

- LEGEND**
- TWO-WAY TRAFFIC FLOW
 - ONE-WAY TRAFFIC FLOW
 - FILL PROGRESSION DIRECTION
 - SURFACE RUNOFF FLOW DIRECTION

REV	DATE	DESCRIPTION	BY
1	1/30/08	ADDED MM-10R AND MM-12R	SRF
2	05/14/10	REVISED FILL SEQUENCE	SRF
3	08/19/10	REVISED PER FDP RAI NO. 1	SRF
4	01/14/11	REVISED PER FDP RAI NO. 2	SRF

DRAWING TITLE
PHASE II - SECTION I
FILL SEQUENCE NO. 7

PROJECT TITLE
HARDEE COUNTY
LANDFILL
OPERATIONS DRAWINGS

CLIENT
HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD, SUITE 100, TAMPA, FL 33610
813 821-0080 FAX 813 823-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882
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DWN. BY: SDA
CHK. BY: SRF
APP. BY: CEH
CEH

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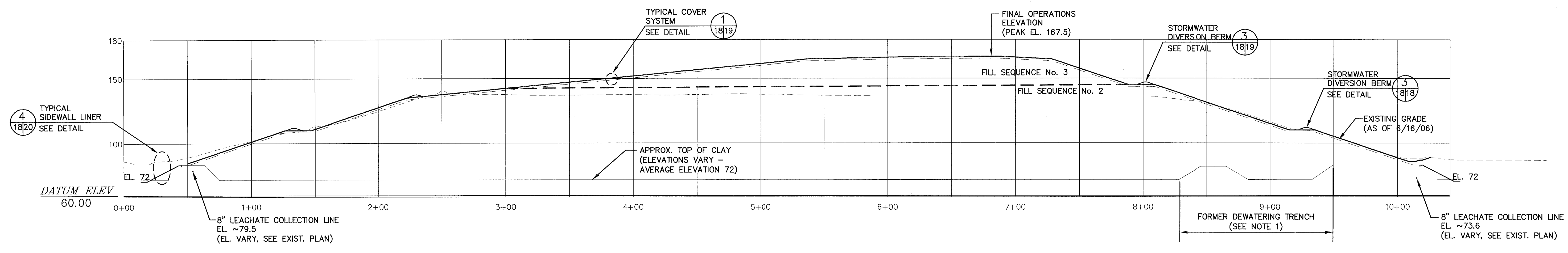
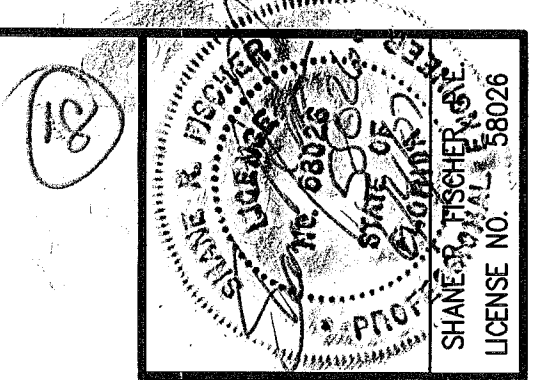
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MAY 2007

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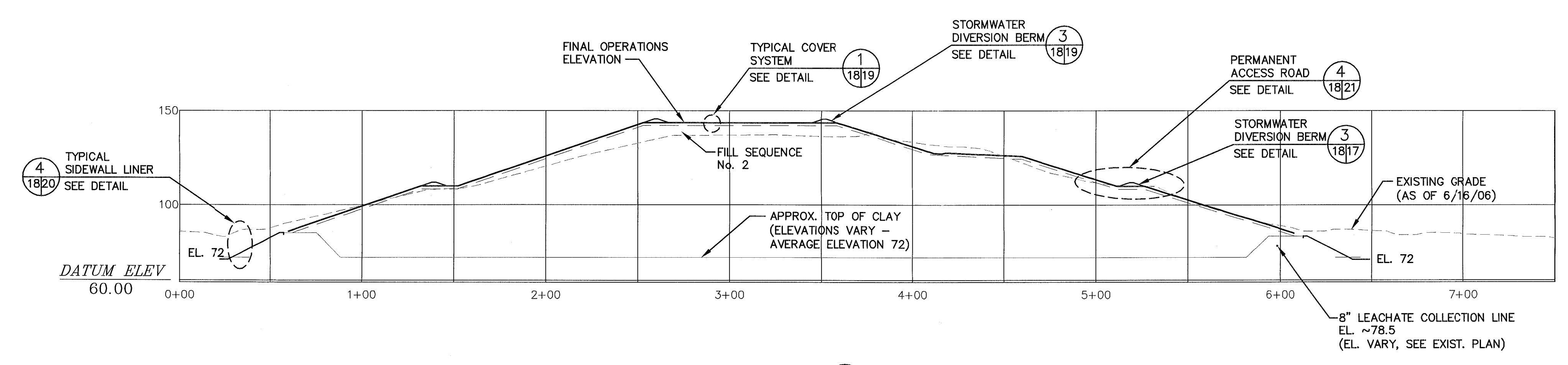
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17 of 26

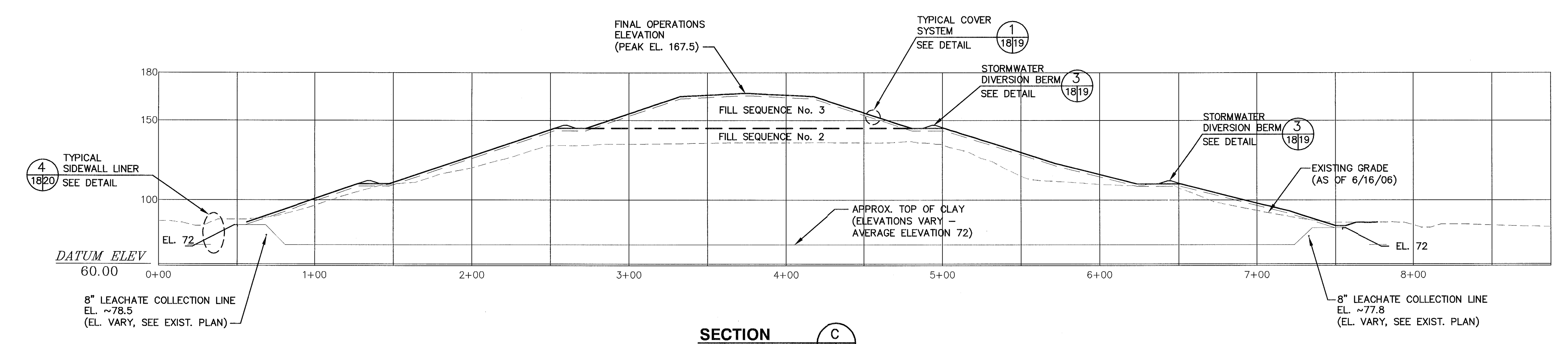
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
JAN 18 2011
SOUTHWEST DISTRICT
TAMPA



SECTION A
 H 1" = 40'
 V 1" = 40' 4.5,6,7,8



SECTION B
 H 1" = 40'
 V 1" = 40' 4.5,6,7,8



SECTION C
 H 1" = 40'
 V 1" = 40' 4.5,6,7,8

- NOTES:
1. BOTTOM CLAY ELEVATIONS AND SIDESLOPE SHOWN WERE APPROXIMATED FROM DRAWINGS BY ENVISOR, DATED NOVEMBER 1982, PROJECT NO. 81 014-82(1). ACTUAL DEPTH OF WASTE NOT DETERMINED.
 2. FINE GRADING WITH CLEAN SOIL ONLY (FREE OF WASTE, ROCKS, DEBRIS).
 3. PREVIOUSLY FILLED OUTER SLOPES DESIGNATED TO RECEIVE WASTE SHALL BE SURVEYED OR HAND BORINGS DUG AND MARKED IN THE FIELD TO ENSURE THAT AT LEAST A 2-FOOT THICK COMPACTED WASTE LAYER CAN BE PLACED PRIOR TO DISTURBING EXISTING COVER. ADDITIONAL SPACE CAN BE MADE AVAILABLE BY REMOVING COVER SOILS; HOWEVER, 18 INCHES OF SOILS SHALL BE PLACED OVER THE WASTE MATERIAL TO ACHIEVE GRADES SHOWN.
 4. SLOPES SHALL NOT EXCEED 3(H):1(V) AT ANY TIME, AFTER APPLICATION OF COVER SOILS. ALL FINAL SLOPES SHALL CONFORM TO THE DESIGN DIMENSIONS, SLOPES, AND ELEVATION.
 5. ALL FILL SEQUENCE GRADES SHOWN ARE TOP OF INTERMEDIATE COVER.

REV	DATE	DESCRIPTION	BY

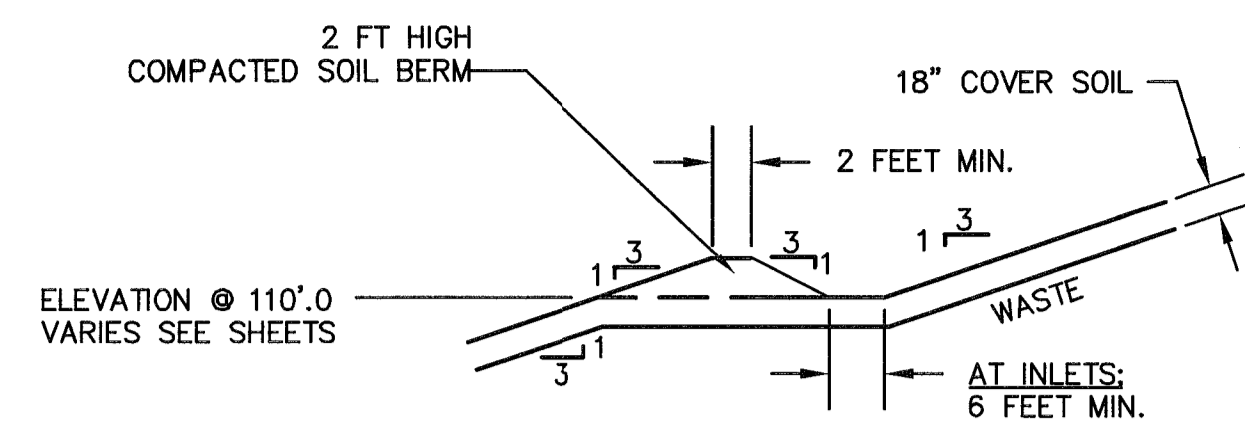
DRAWING TITLE: PHASE I - SECTIONS
 PROJECT TITLE: HARDEE COUNTY LANDFILL OPERATIONS DRAWINGS

HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

CLIENT: SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
 4041 PARK OAKS BLDG., SUITE 100, TAMPA, FL 33610
 813 621-0080 FAX 813 622-8757
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882
 PROJ. NO. 091990303.12
 DATE: JUN - 5 2007
 DRAWN BY: SDA
 CHECKED BY: SRF
 O/A REVIEW BY: CEH
 APPR. BY: CEH

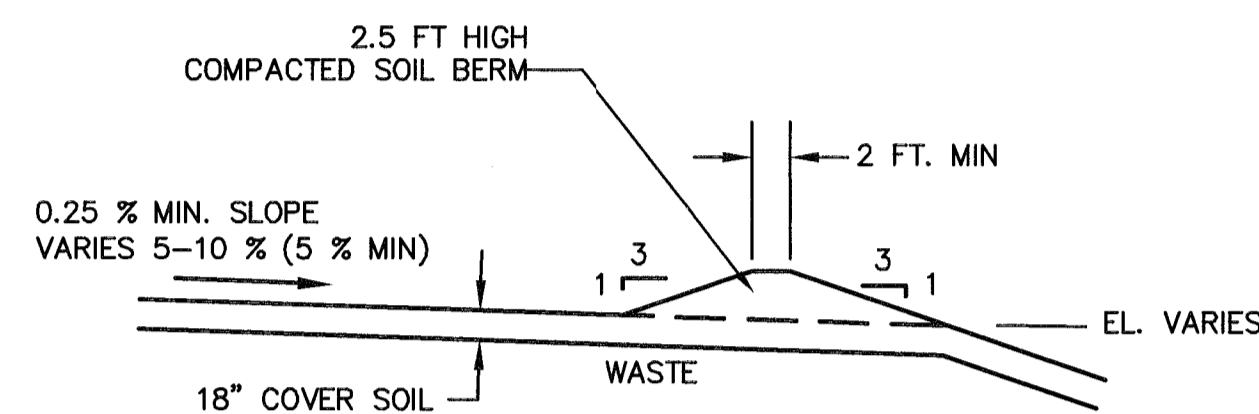
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 DATE: MAY 2007
 SCALE: AS SHOWN
 DRAWING NO. 18 of 26

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 JUN - 5 2007
 SOUTHWEST DISTRICT TAMPA



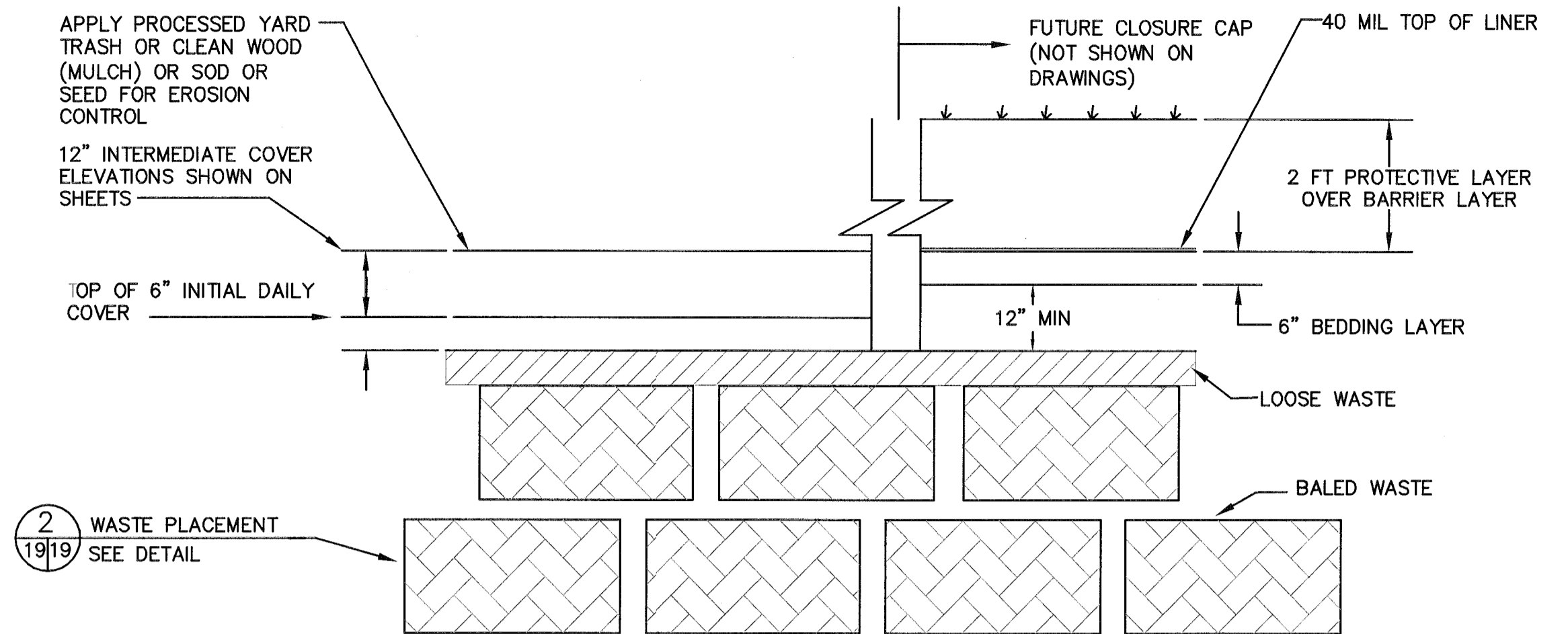
TERRACE BERM

NOTE: MINIMUM SLOPE TO DROP INLET 0.15%

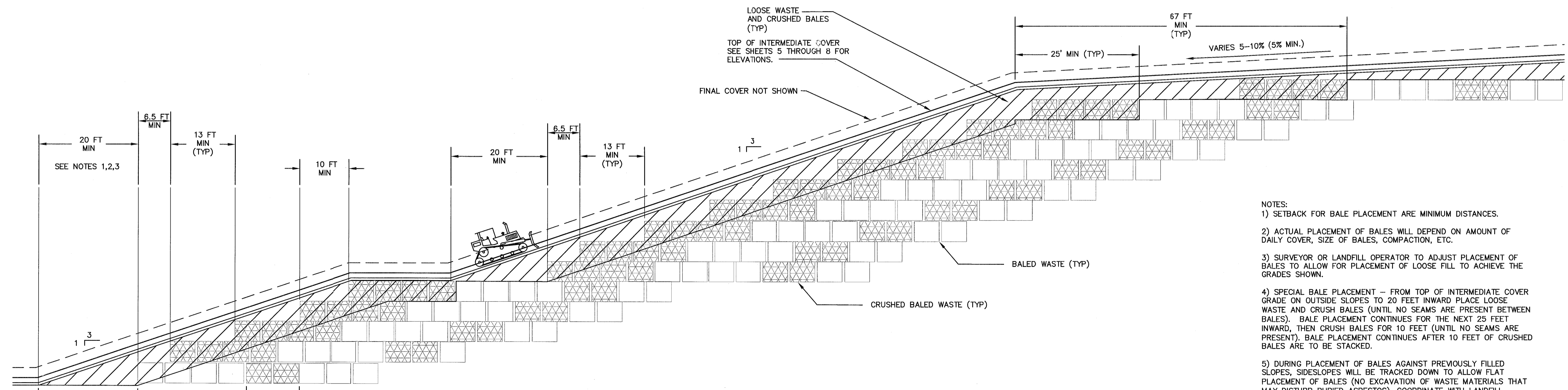


BERM ON TOP OF LANDFILL

TYPICAL STORMWATER DIVERSION BERM DETAIL 3
SCALE: H 1" = 10'
V 1" = 10'



TYPICAL COVER SYSTEM DETAIL 1
NOT TO SCALE



TYPICAL WASTE PLACEMENT DETAIL 2
NOT TO SCALE

- NOTES:
- 1) SETBACK FOR BALE PLACEMENT ARE MINIMUM DISTANCES.
 - 2) ACTUAL PLACEMENT OF BALES WILL DEPEND ON AMOUNT OF DAILY COVER, SIZE OF BALES, COMPACTION, ETC.
 - 3) SURVEYOR OR LANDFILL OPERATOR TO ADJUST PLACEMENT OF BALES TO ALLOW FOR PLACEMENT OF LOOSE FILL TO ACHIEVE THE GRADES SHOWN.
 - 4) SPECIAL BALE PLACEMENT - FROM TOP OF INTERMEDIATE COVER GRADE ON OUTSIDE SLOPES TO 20 FEET INWARD PLACE LOOSE WASTE AND CRUSH BALES (UNTIL NO SEAMS ARE PRESENT BETWEEN BALES). BALE PLACEMENT CONTINUES FOR THE NEXT 25 FEET INWARD, THEN CRUSH BALES FOR 10 FEET (UNTIL NO SEAMS ARE PRESENT). BALE PLACEMENT CONTINUES AFTER 10 FEET OF CRUSHED BALES ARE TO BE STACKED.
 - 5) DURING PLACEMENT OF BALES AGAINST PREVIOUSLY FILLED SLOPES, SIDESLOPES WILL BE TRACKED DOWN TO ALLOW FLAT PLACEMENT OF BALES (NO EXCAVATION OF WASTE MATERIALS THAT MAY DISTURB BURIED ASBESTOS). COORDINATE WITH LANDFILL DIRECTOR ON LOCATIONS OF BURIED ASBESTOS.

REV	DATE	DESCRIPTION	BY

DRAWING TITLE
PHASE I
DETAILS - 1

PROJECT TITLE
HARDEE COUNTY
LANDFILL
OPERATIONS DRAWINGS

CUSTOMER
HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS

CLIENT
SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 871-0080 FAX 813 828-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892
PROJ. NO. 09193033.12 DRAWN BY: SDA CHECK BY: CEH
DATE: 07/16/19

CADD FILE: 993312SEQDET1
DATE: MAY 2007
SCALE: AS SHOWN
DRAWING NO.: 19 of 26

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
JUN - 5 2007
SOUTHWEST DISTRICT
TAMPA



REV	DATE	DESCRIPTION

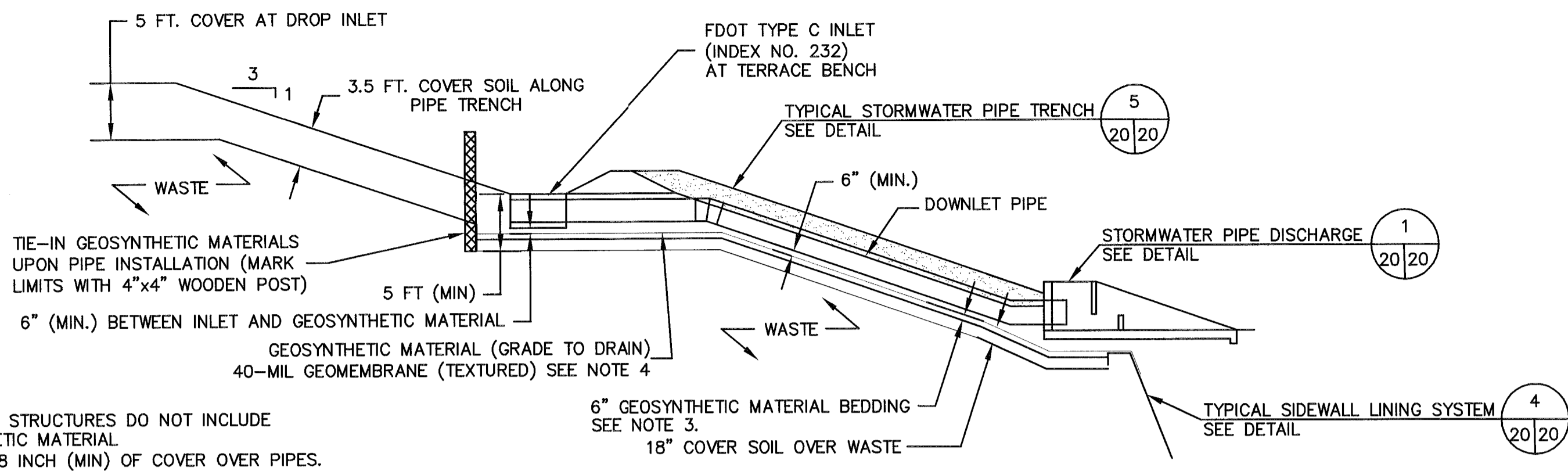
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DETAILS - 2
HARDEE COUNTY
LANDFILL
OPERATIONS DRAWINGS

HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS

CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

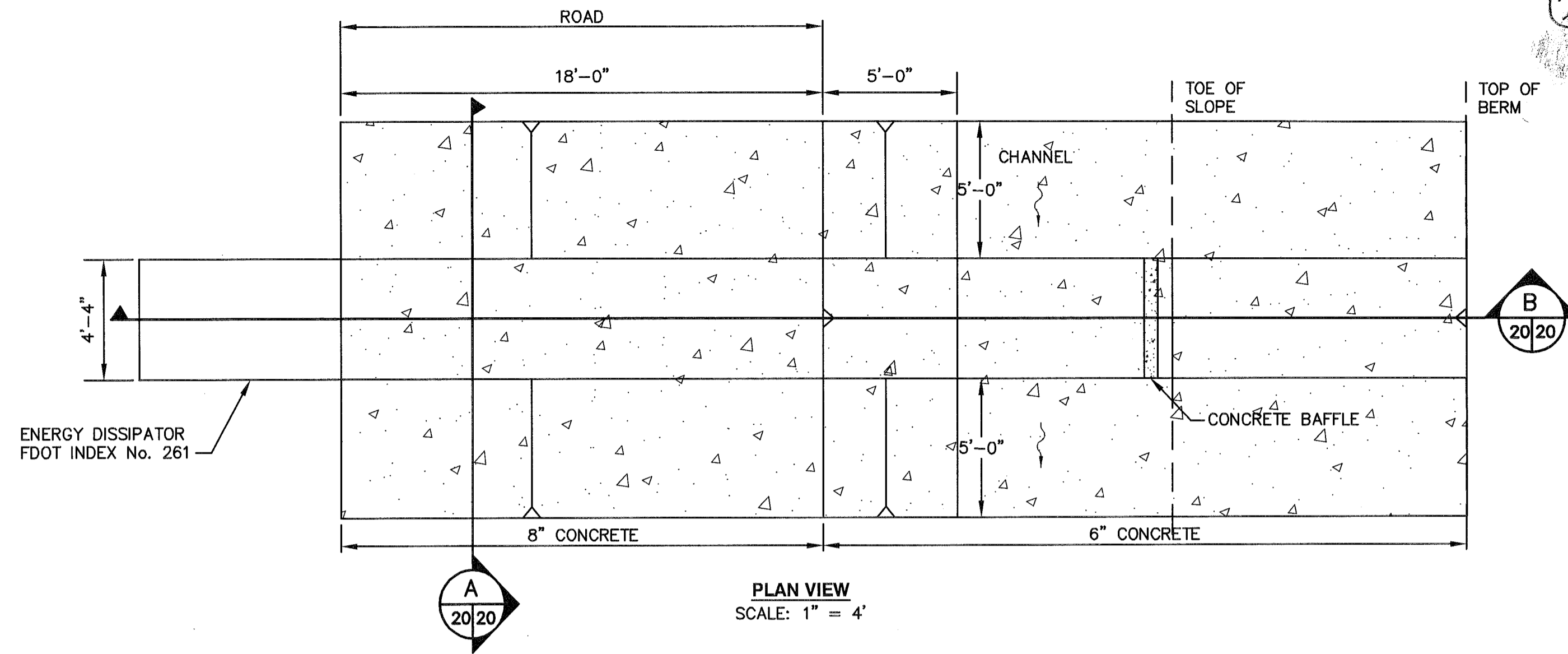
SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813.851.0880 FAX 813.852.8757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882
PROJ. NO. 09195033.12
DWN. BY: SDA
CHK. BY: OEH
APP. BY: RJD

CADD FILE: 993312SEQDET.L
DATE: MAY 2007
SCALE: AS SHOWN
DRAWING NO.

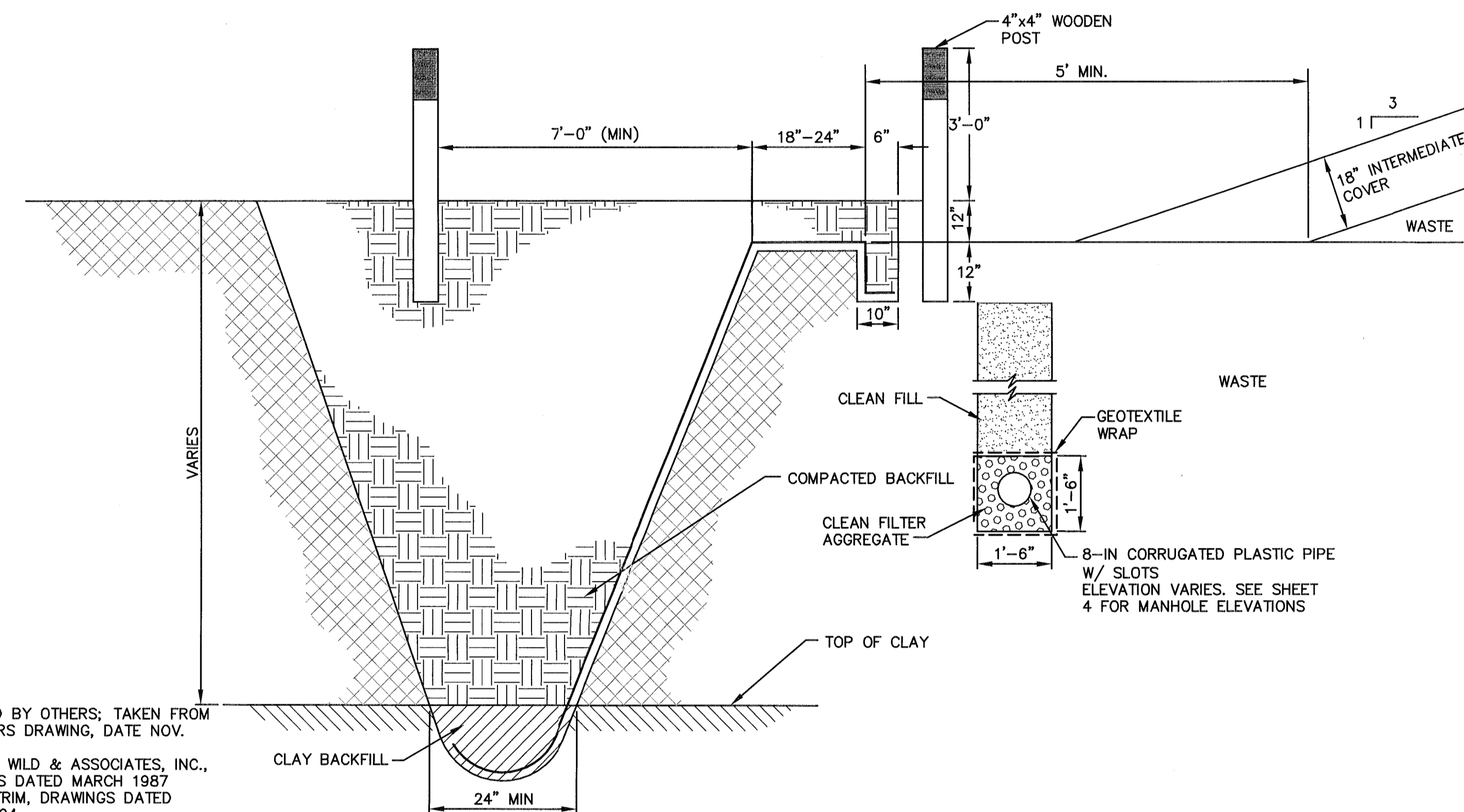


- NOTES:
- TEMPORARY STRUCTURES DO NOT INCLUDE GEOSYNTHETIC MATERIAL
 - MAINTAIN 18 INCH (MIN) OF COVER OVER PIPES.
 - GEOSYNTHETIC MATERIAL BEDDING 6 INCH (MIN) - CLEAN COMPACTED SOIL (SP, SC, SOILS WITH <15%-200 SIEVE) - NO ROCKS, STICKS, ROOTS
 - PLACE ADDITIONAL PIECE OF GEOSYNTHETIC MATERIAL, 40-MIL LLDPE GEOMEMBRANE (TEXTURED), OVER 40-MIL GEOMEMBRANE (TEXTURED) UNDER ALL PERMANENT STRUCTURE, INLETS, AND END TREATMENTS

TYPICAL STORMWATER DOWNLET DETAIL (3)
SCALE: H 1" = 10'
V 1" = 10'

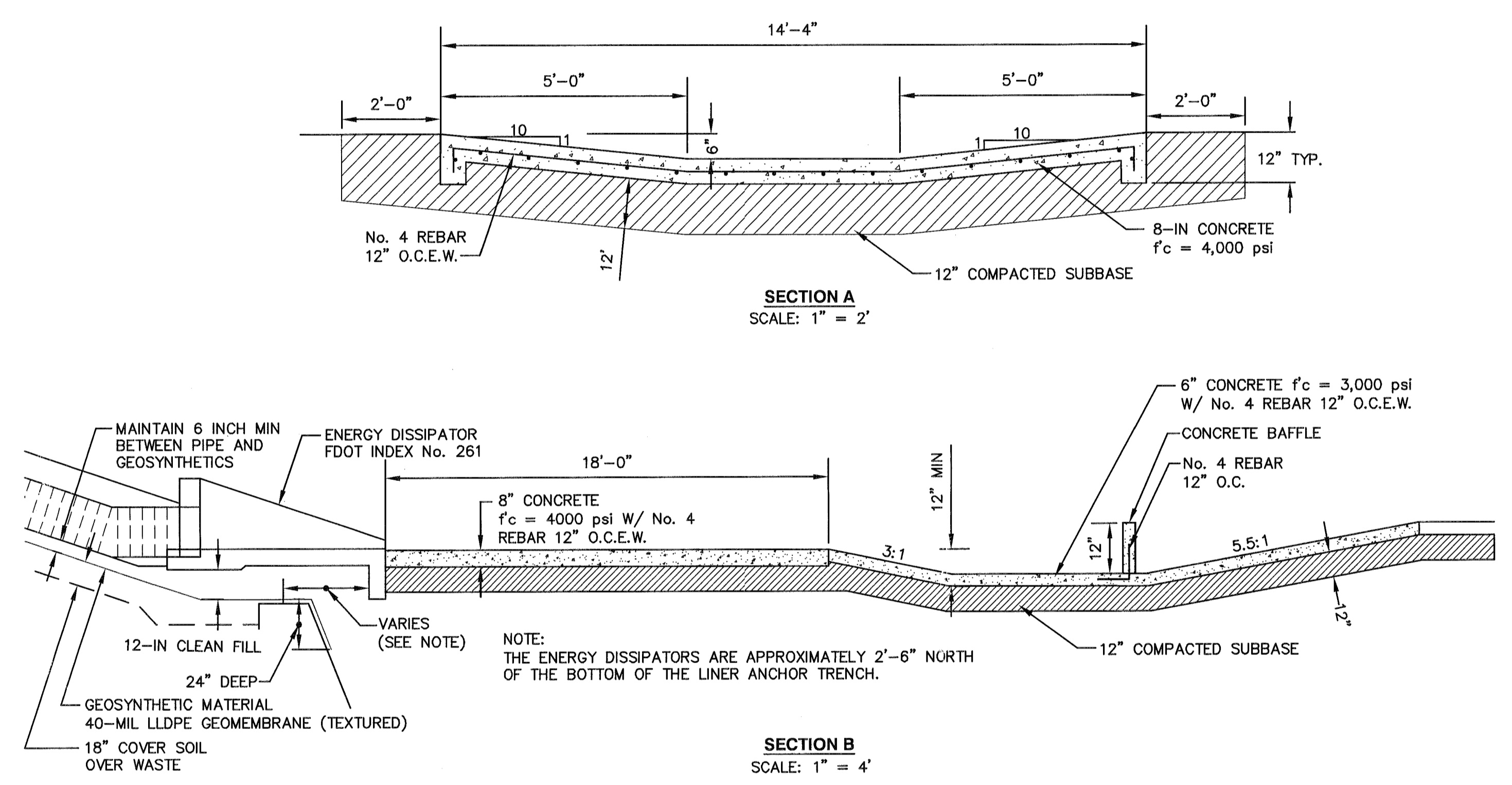


PLAN VIEW
SCALE: 1" = 4'



- NOTES:
- DESIGNED BY OTHERS; TAKEN FROM -ENVISORS DRAWING, DATE NOV. 1982 -BRILEY, WILD & ASSOCIATES, INC., DRAWINGS DATED MARCH 1987 -WADE TRIM, DRAWINGS DATED SEPT. 1994
 - SEE PLANS FOR LIMITS OF INTERMEDIATE COVER.

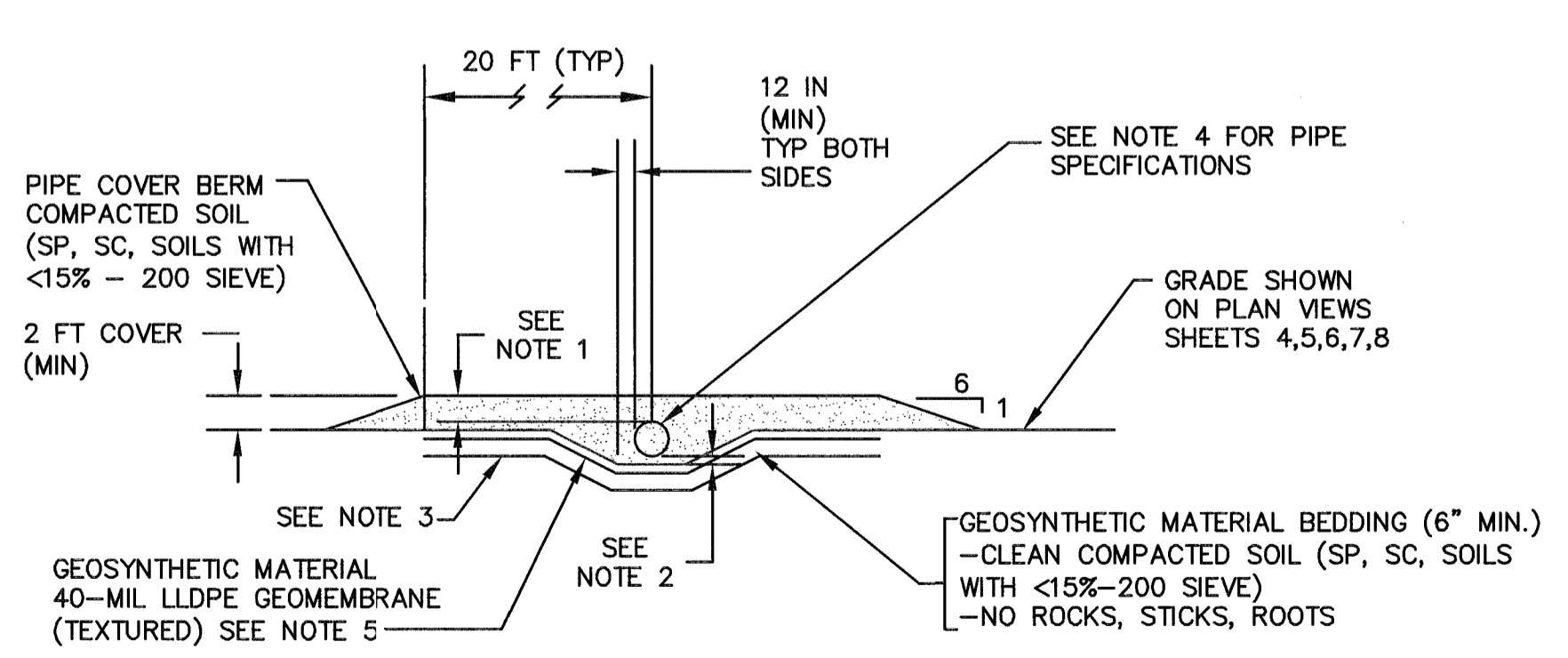
TYPICAL SIDEWALL LINING SYSTEM DETAIL (4)
NOT TO SCALE



SECTION A
SCALE: 1" = 2'

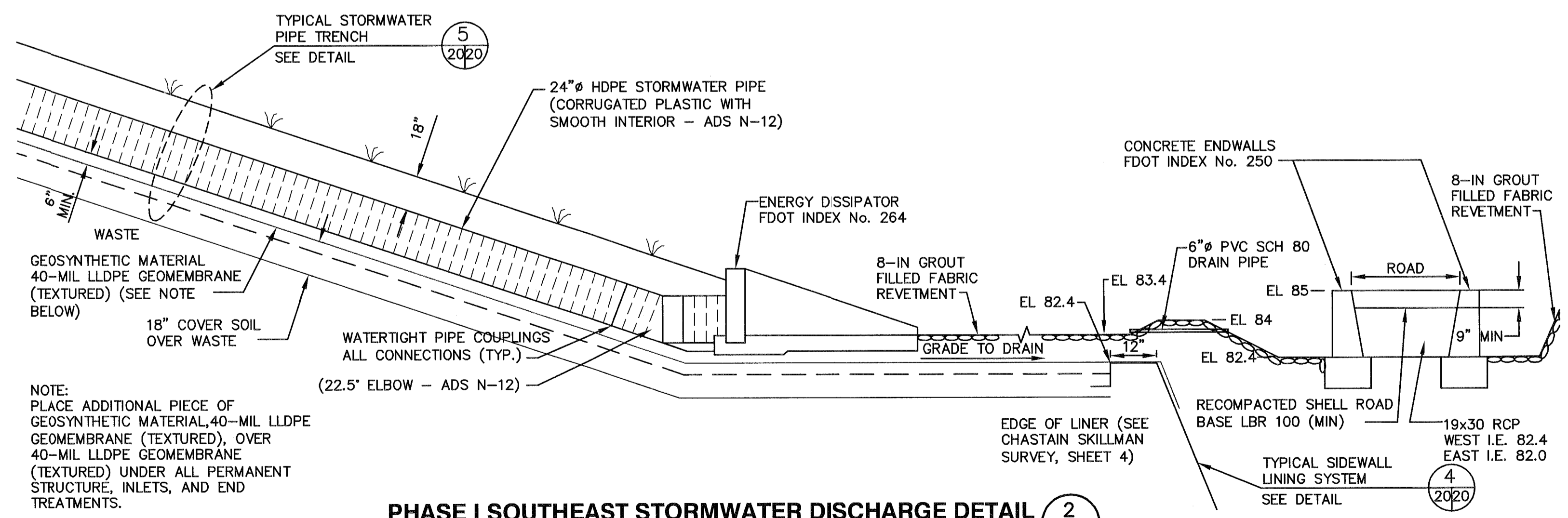
SECTION B
SCALE: 1" = 4'

STORMWATER PIPE DISCHARGE DETAIL (1)
NOT TO SCALE



- NOTE:
- MAINTAIN 18 INCH (MIN) OF COMPACTED SOIL (SP, SC, SOILS WITH <15%-200 SIEVE) COVER OVER PIPES
 - MAINTAIN 6 INCH OF COMPACTED SOIL (SP, SC, SOILS WITH <15%-200 SIEVE) BETWEEN PIPE AND GEOSYNTHETIC MATERIALS
 - MAINTAIN 18 INCH COVER SOIL OVER WASTE
 - ALL STORMWATER PIPES - CORRUGATED PLASTIC PIPE SMOOTH INTERIOR ADS N-12 WITH WATERTIGHT COUPLINGS AND FITTINGS. INSTALL PIPE PER ASTM D 2321
 - PLACE ADDITIONAL PIECE OF GEOSYNTHETIC MATERIAL, 40-MIL LLDPE GEOMEMBRANE (TEXTURED), UNDER ALL PERMANENT STRUCTURE, INLETS, AND END TREATMENTS

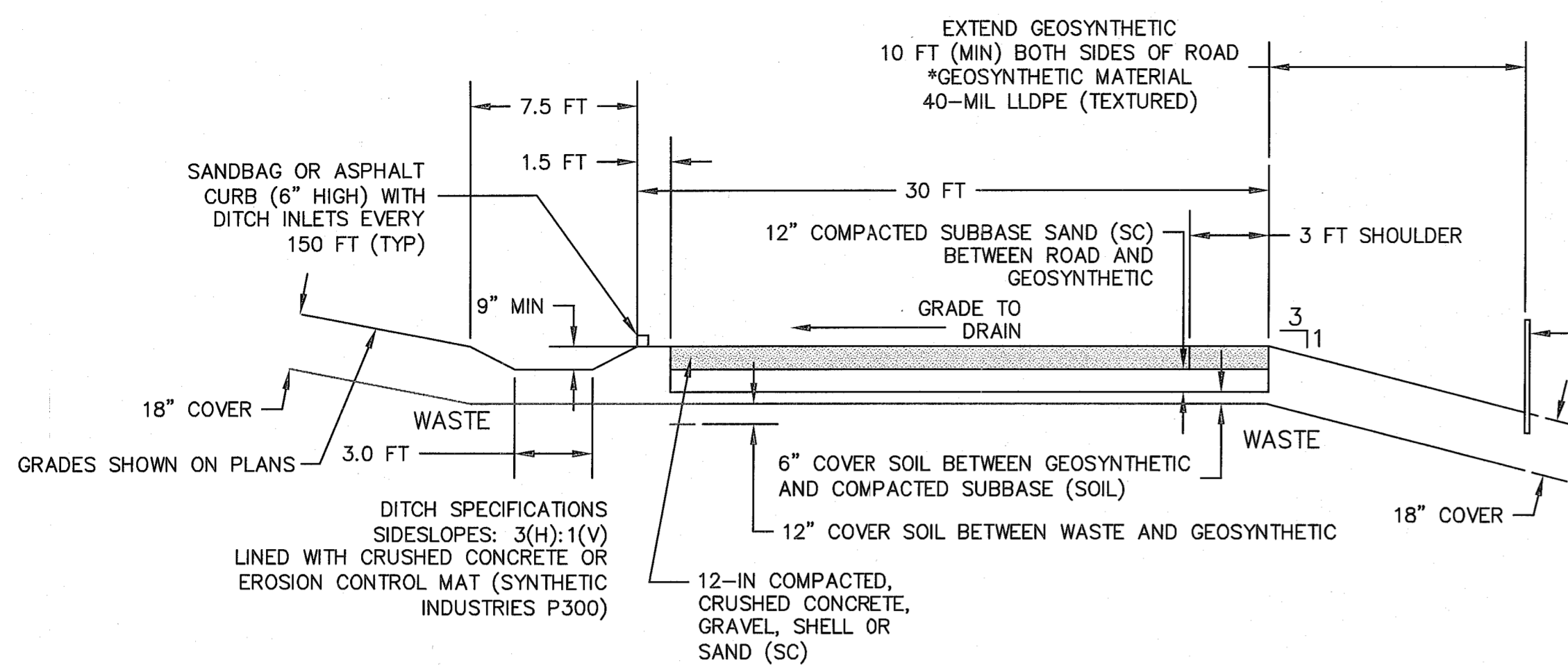
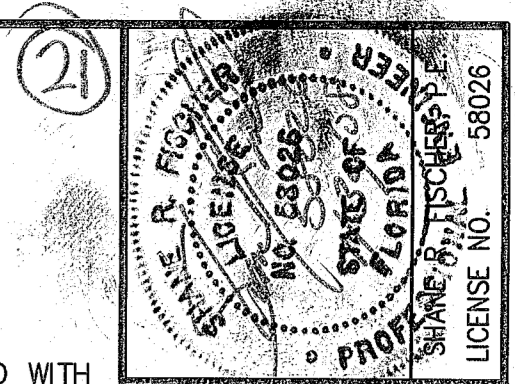
TYPICAL STORMWATER TRENCH DETAIL (5)
SCALE: H 1" = 10'
V 1" = 10'



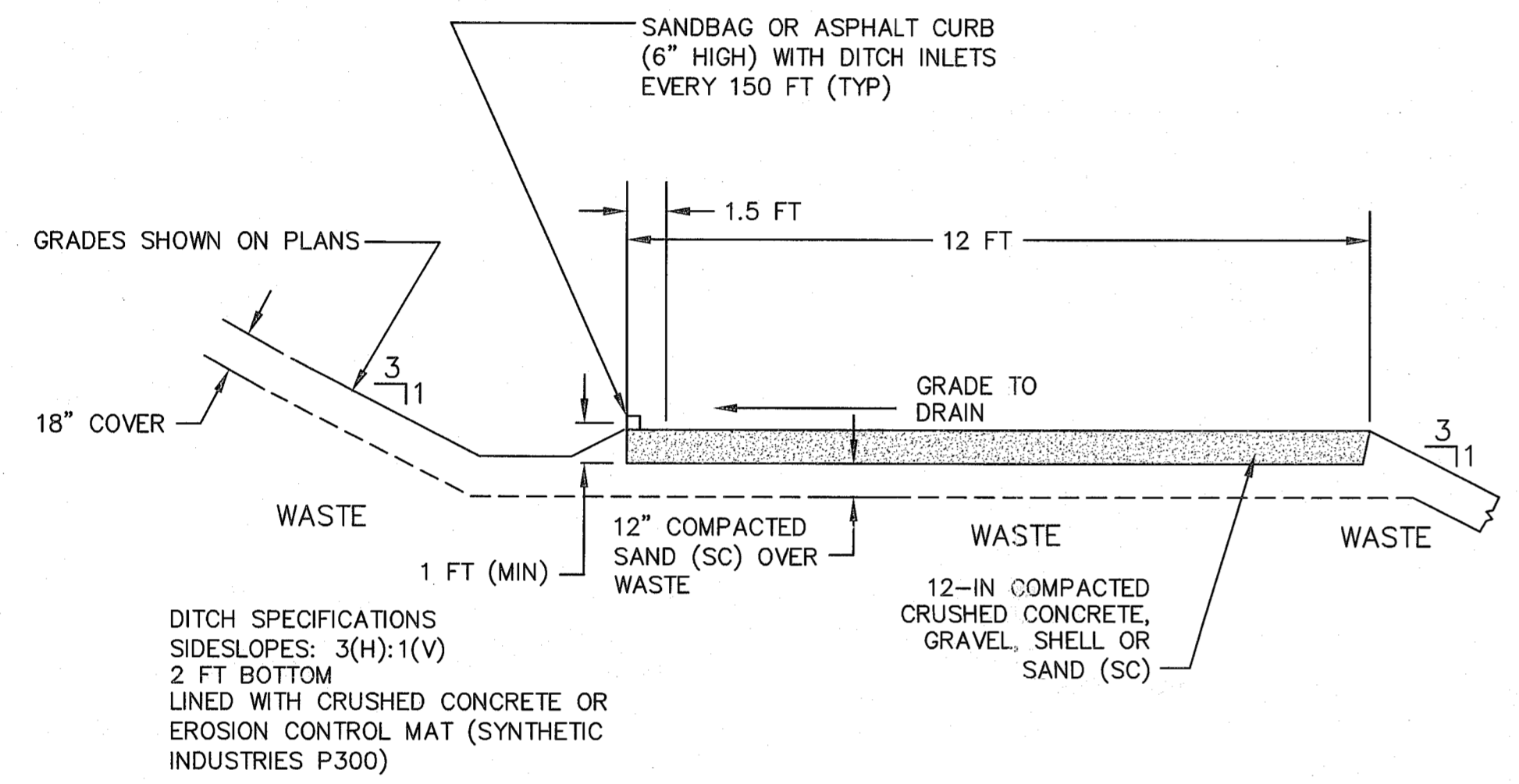
- NOTE:
- PLACE ADDITIONAL PIECE OF GEOSYNTHETIC MATERIAL, 40-MIL LLDPE GEOMEMBRANE (TEXTURED), OVER 40-MIL LLDPE GEOMEMBRANE (TEXTURED) UNDER ALL PERMANENT STRUCTURE, INLETS, AND END TREATMENTS.

PHASE I SOUTHEAST STORMWATER DISCHARGE DETAIL (2)
NOT TO SCALE

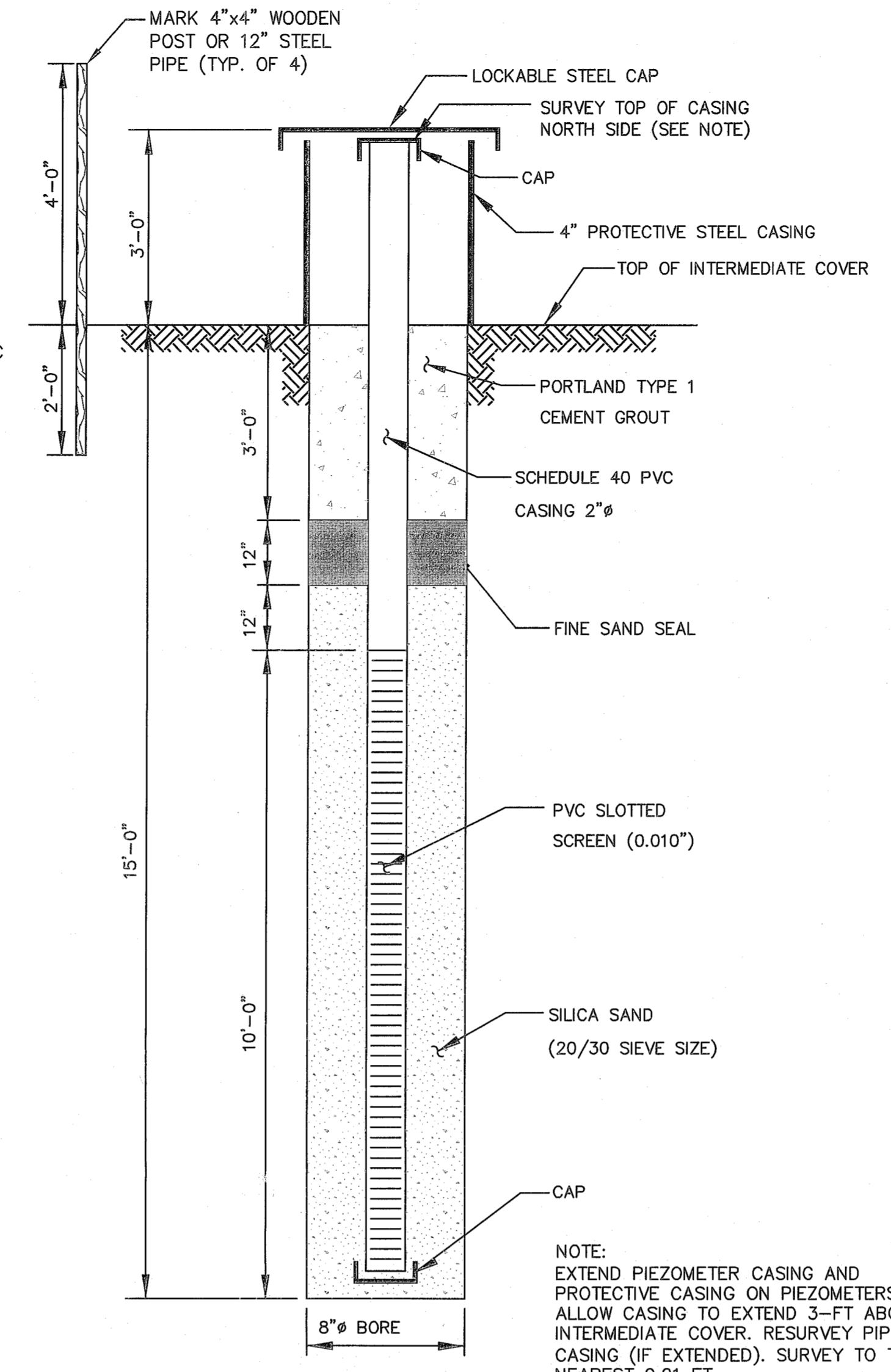
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
JUN - 5 2007
SOUTHWEST DISTRICT TAMPA



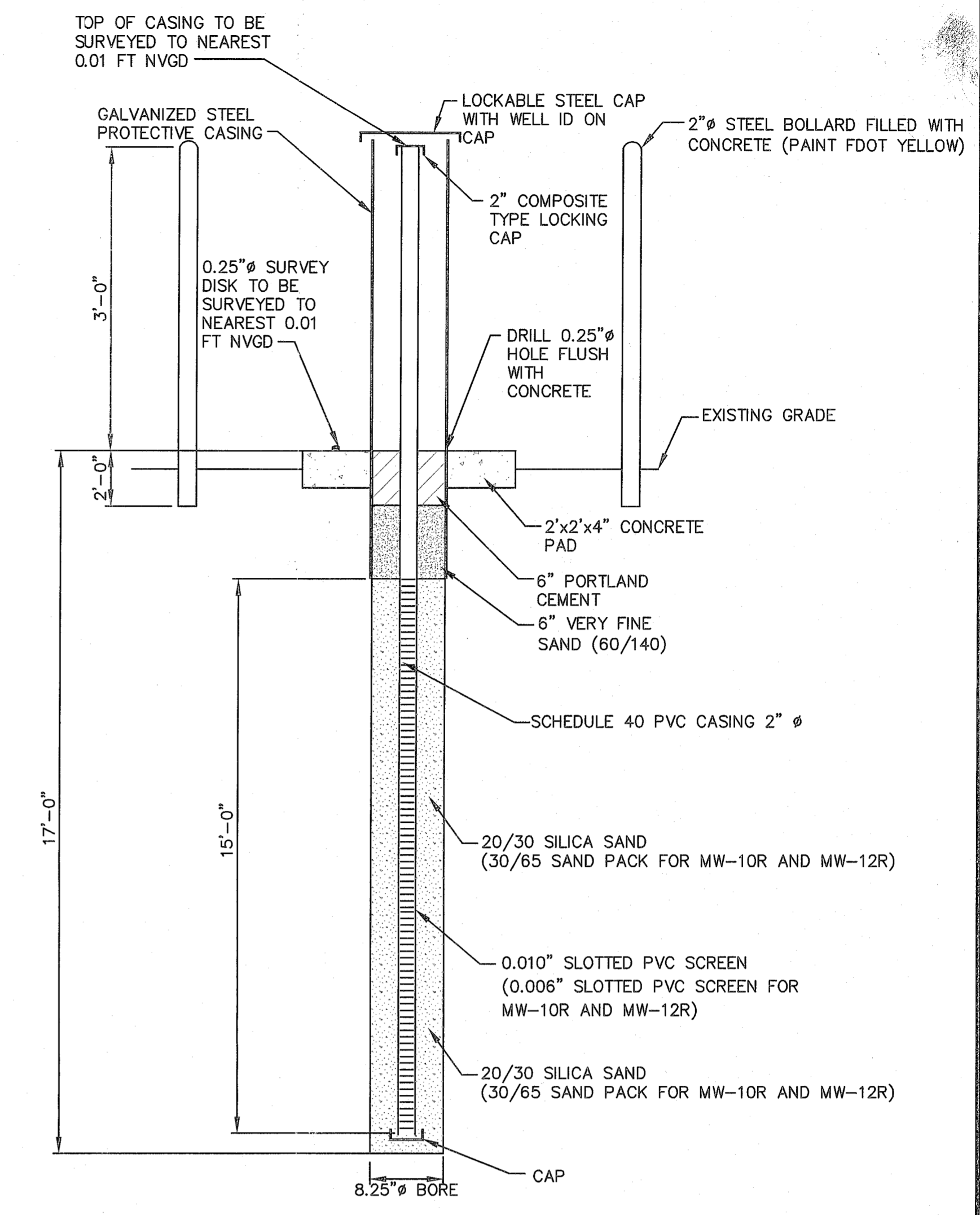
PHASE I TYPICAL PERMANENT ACCESS ROAD DETAIL 4
NOT TO SCALE 5.9 21



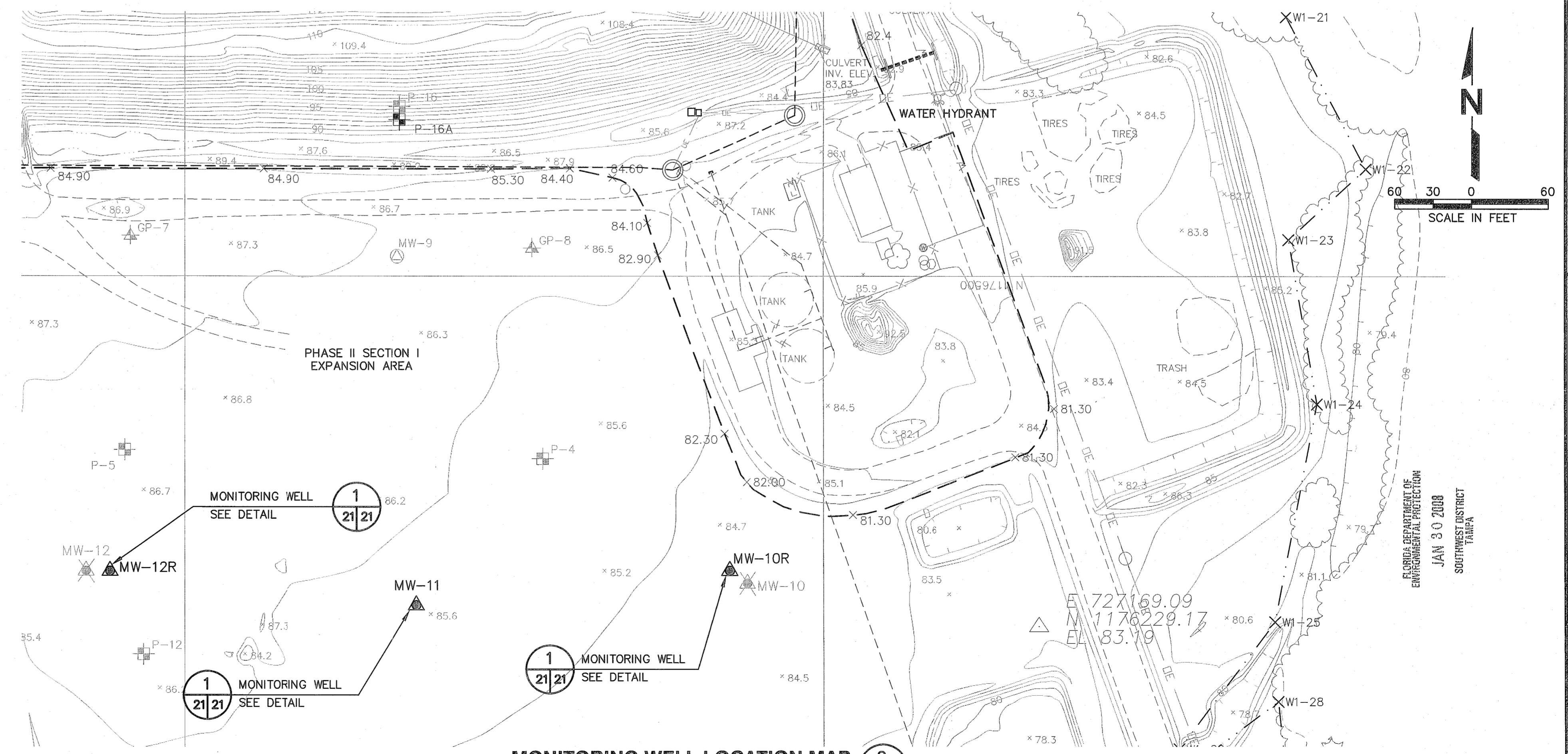
PHASE I TYPICAL TEMPORARY ACCESS ROAD DETAIL 5
NOT TO SCALE 5.6.7 21



TYPICAL PIEZOMETER DETAIL 3
NOT TO SCALE 5 21



TYPICAL MONITORING WELL DETAIL 1
NOT TO SCALE 3.21 21



MONITORING WELL LOCATION MAP 2
SCALE: AS SHOWN 3 21

REV	DATE	DESCRIPTION	BY	SRF
1	1/30/08	ADDED MW-10R AND MW-12R		

PHASE I DETAILS - 3
HARDEE COUNTY LANDFILL OPERATIONS DRAWINGS

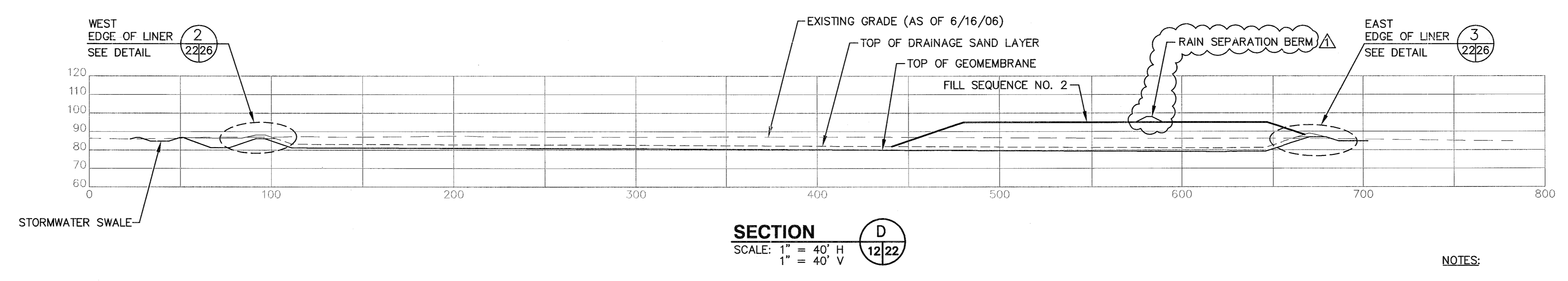
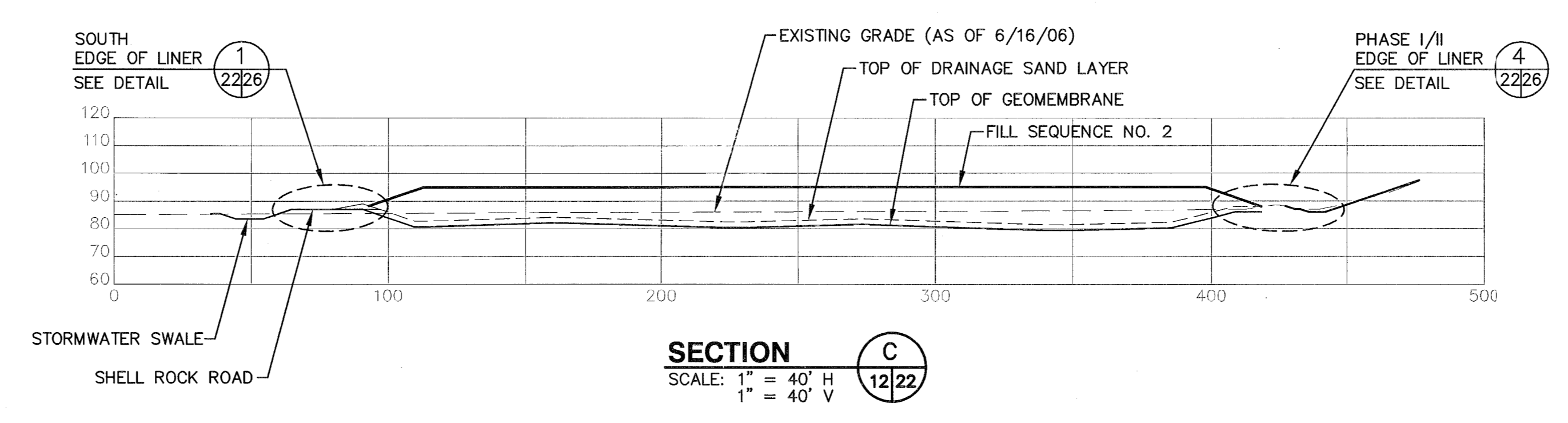
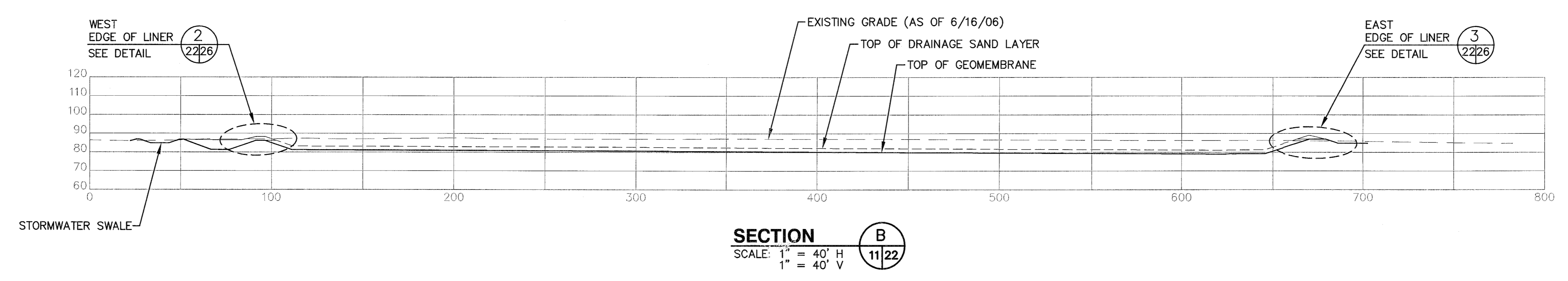
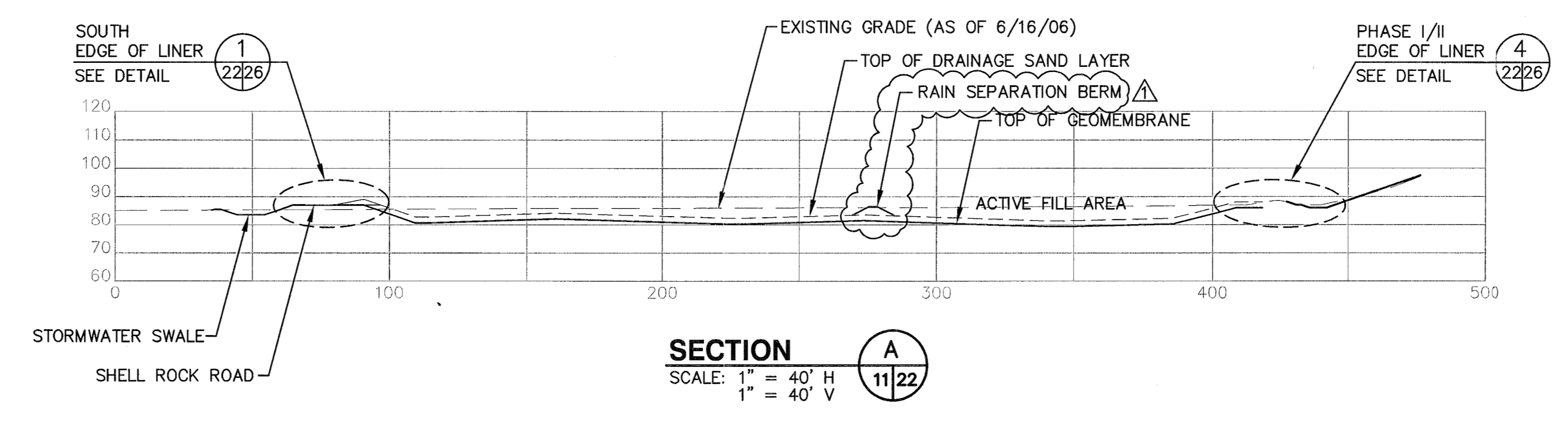
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS
 CADD FILE: 993312SEQDET
 DATE: MAY 2007
 SCALE: AS SHOWN
 DRAWING NO. 21 of 26

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 4401 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
 813 821-0800 FAX 813 828-9757
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 0006882
 PROJ. NO. 993033.12
 DESIGNED BY: SDA
 CHECKED BY: SRF
 DRAWN BY: SDA
 APPR. BY: CEH

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 JAN 30 2008
 SOUTHWEST DISTRICT
 TAMPA

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OCT 01 2007
 SOUTHWEST DISTRICT TAMPA



- NOTES:**
- SLOPES SHALL NOT EXCEED 3(H):1(V) AT ANY TIME, AFTER APPLICATION OF COVER SOILS. ALL FINAL SLOPES SHALL CONFORM TO THE DESIGN DIMENSIONS, SLOPES, AND ELEVATION.
 - ALL FILL SEQUENCE GRADES SHOWN ARE TOP OF INTERMEDIATE COVER.

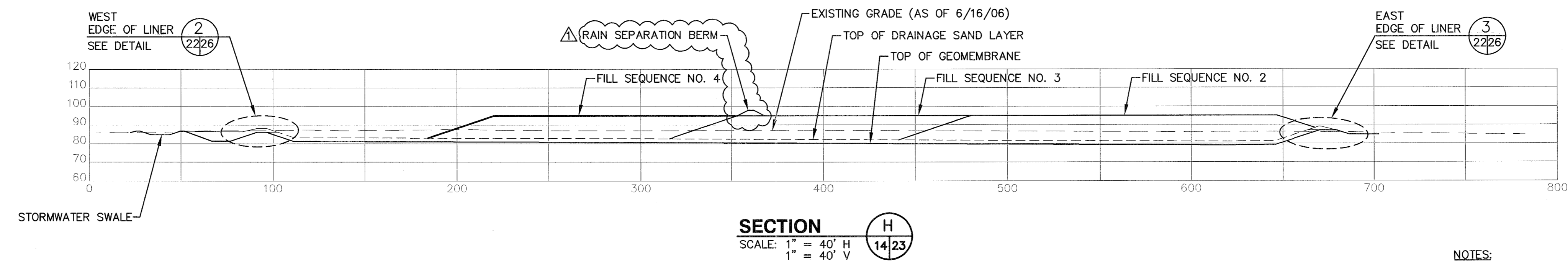
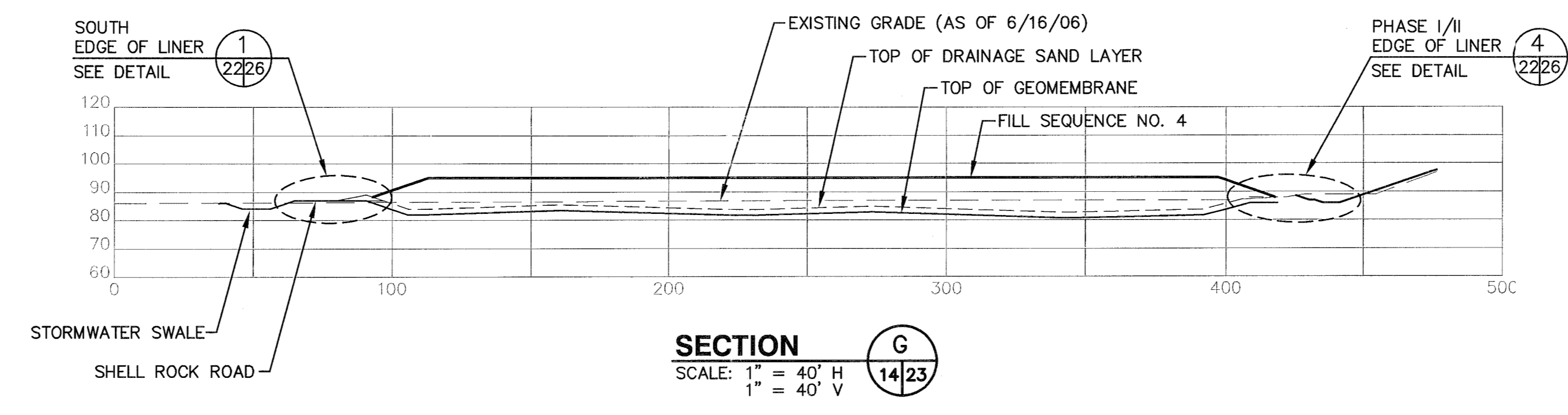
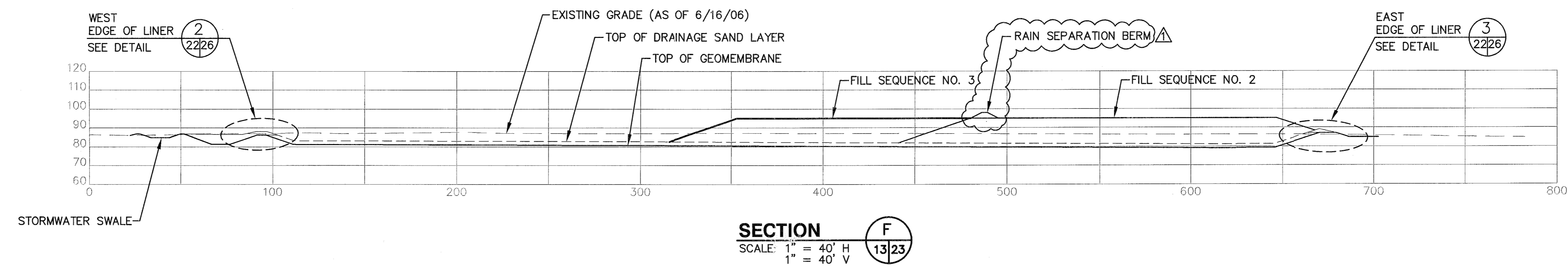
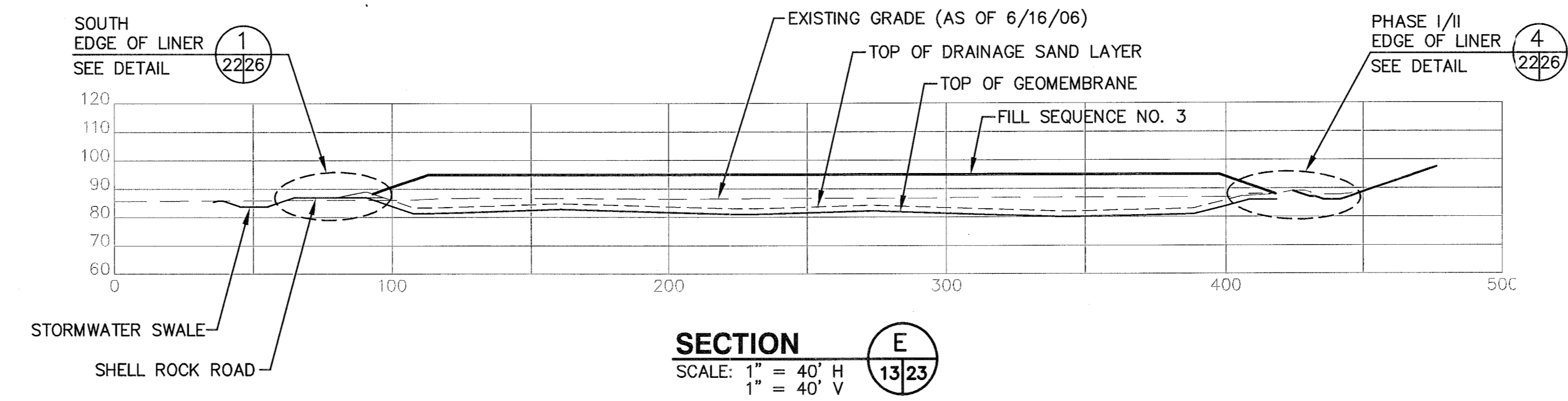
REV	DATE	DESCRIPTION	BY
1	10/17/07	REVISION PER FDEP RAI NO. 1	SRF

DRAWING TITLE: PHASE II SECTION I SECTIONS
 PROJECT TITLE: HARDEE COUNTY LANDFILL OPERATIONS DRAWINGS

CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
 813 867-0080 FAX 813 862-8757
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892
 PROJ. NO. 993312P2S1SECTIONS
 DATE: MAY 2007
 DRAWING NO. 22 of 26

CADD FILE: 993312P2S1SECTIONS
 DATE: MAY 2007
 SCALE: AS SHOWN
 DRAWING NO. 22 of 26



FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
OCT 01 2007
SOUTHWEST DISTRICT
TAMPA

- NOTES:**
- SLOPES SHALL NOT EXCEED 3(H):1(V) AT ANY TIME, AFTER APPLICATION OF COVER SOILS. ALL FINAL SLOPES SHALL CONFORM TO THE DESIGN DIMENSIONS, SLOPES, AND ELEVATION.
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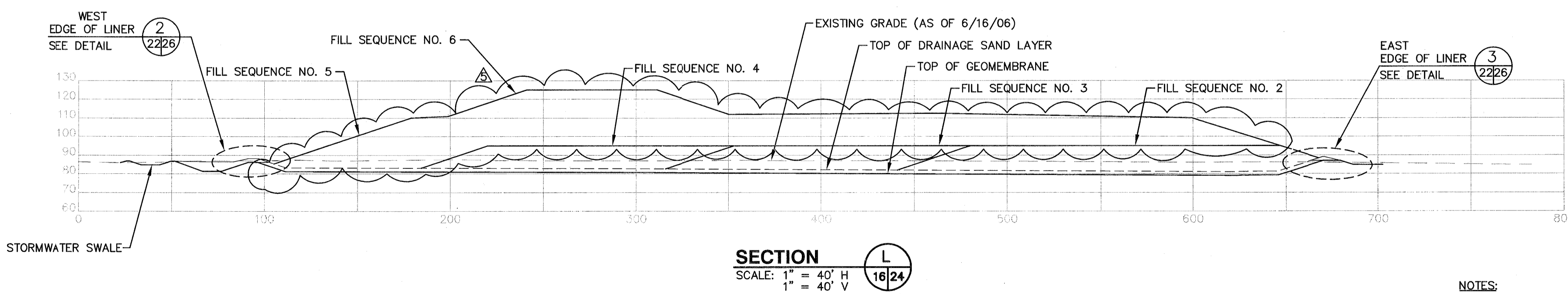
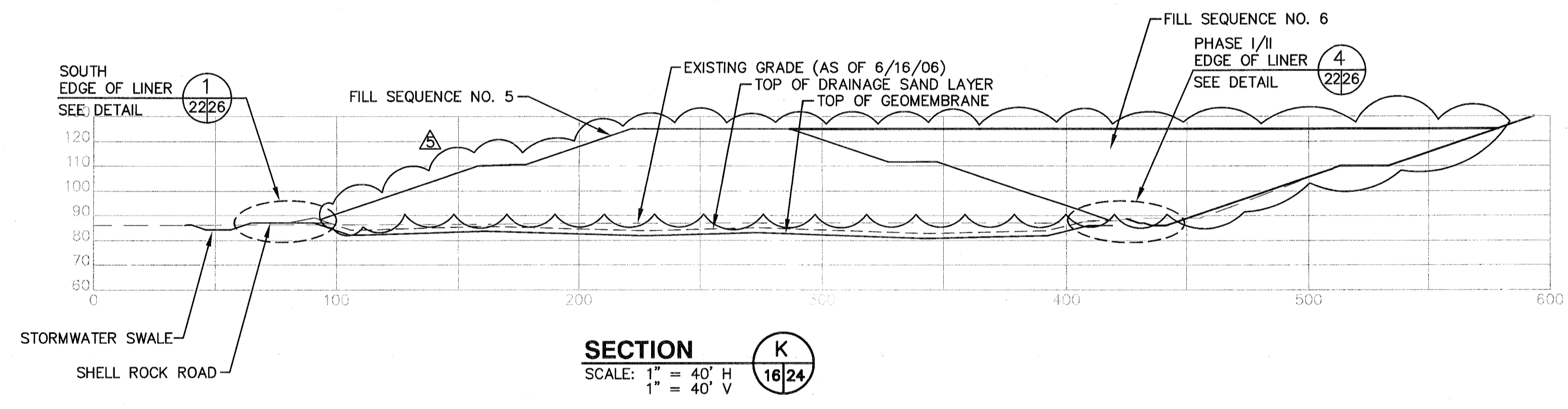
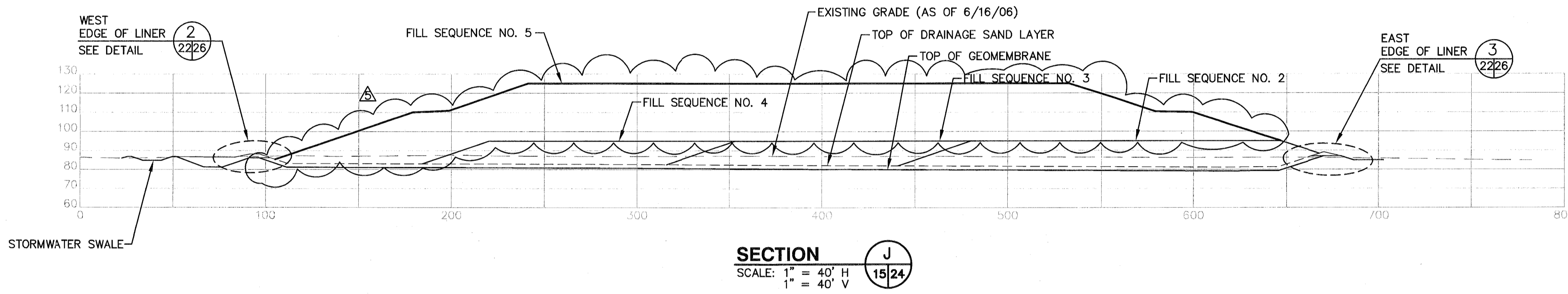
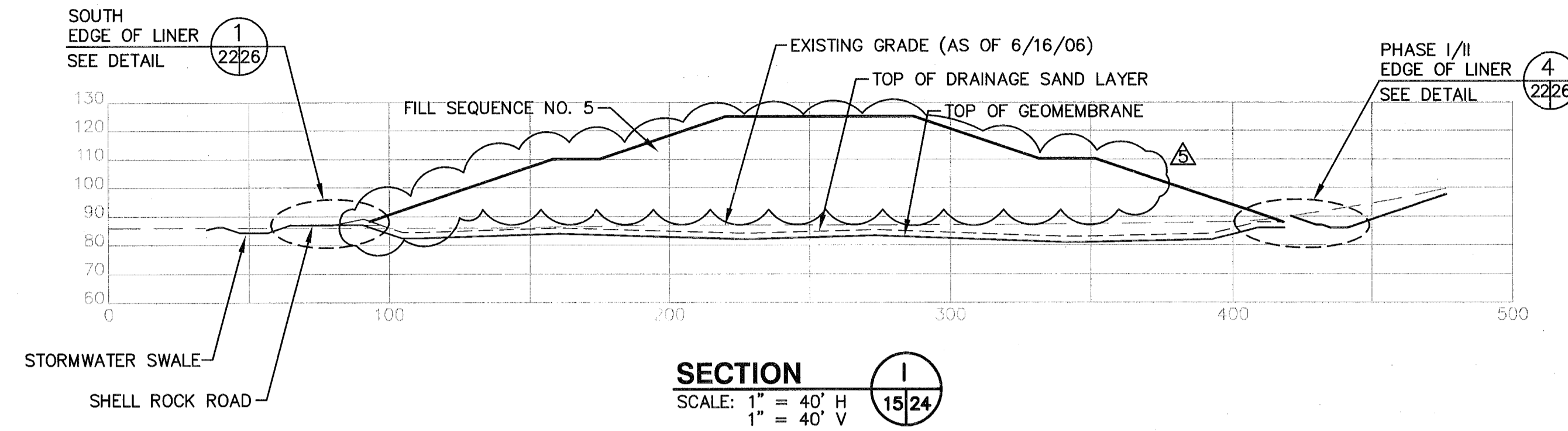
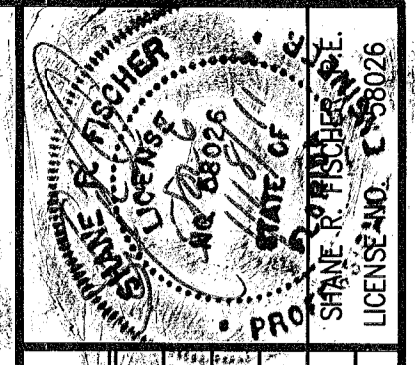
REV	DATE	DESCRIPTION	BY
1	10/1/07	REVISION PER TDEP RAI NO. 1	SRF

DRAWING TITLE: PHASE II SECTION I SECTIONS
 PROJECT TITLE: HARDEE COUNTY LANDFILL OPERATIONS DRAWINGS

CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
 813 821-0880 FAX 813 822-6757
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 0004882
 PROJ. NO. 993312P2S1
 DWN. BY: SDA
 CDR. BY: CEH
 APP. BY: CEH

CADD FILE: 993312P2S1SECTIONS
 DATE: MAY 2007
 SCALE: AS SHOWN
 DRAWING NO.



- NOTES:**
1. SLOPES SHALL NOT EXCEED 3(H):1(V) AT ANY TIME, AFTER APPLICATION OF COVER SOILS. ALL FINAL SLOPES SHALL CONFORM TO THE DESIGN DIMENSIONS, SLOPES, AND ELEVATION.
 2. ALL FILL SEQUENCE GRADES SHOWN ARE TOP OF INTERMEDIATE COVER.

REV	DATE	DESCRIPTION	BY
1	10/1/07	REVISION PER FDEP RAI NO. 1	SRF
2	05/14/10	REVISED FILL SEQUENCE	SRF
3	08/16/10	REVISED PER FDEP RAI NO. 1	SRF
4	01/14/11	REVISED PER FDEP RAI NO. 2	SRF

DRAWING TITLE
PHASE II SECTION I SECTIONS

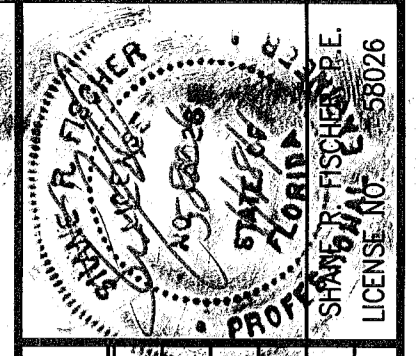
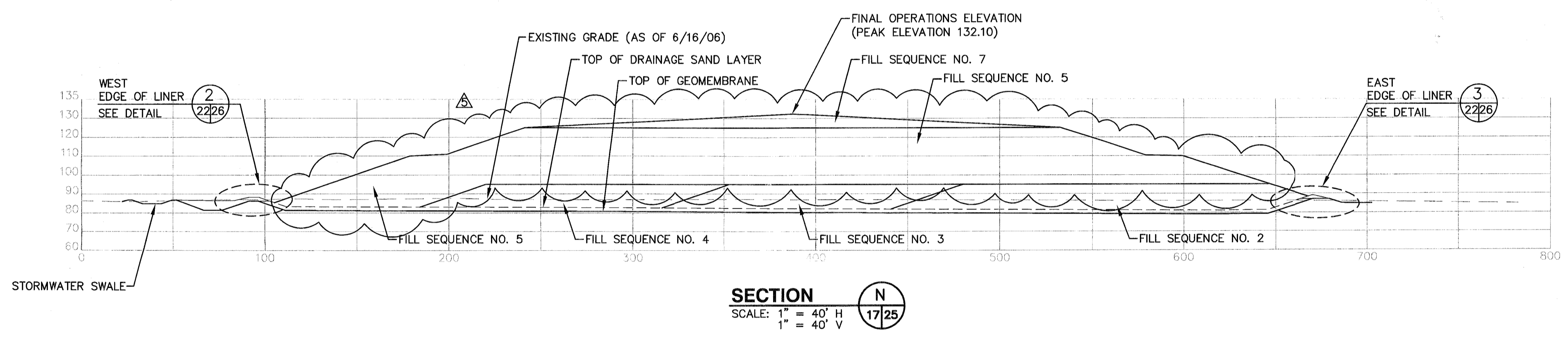
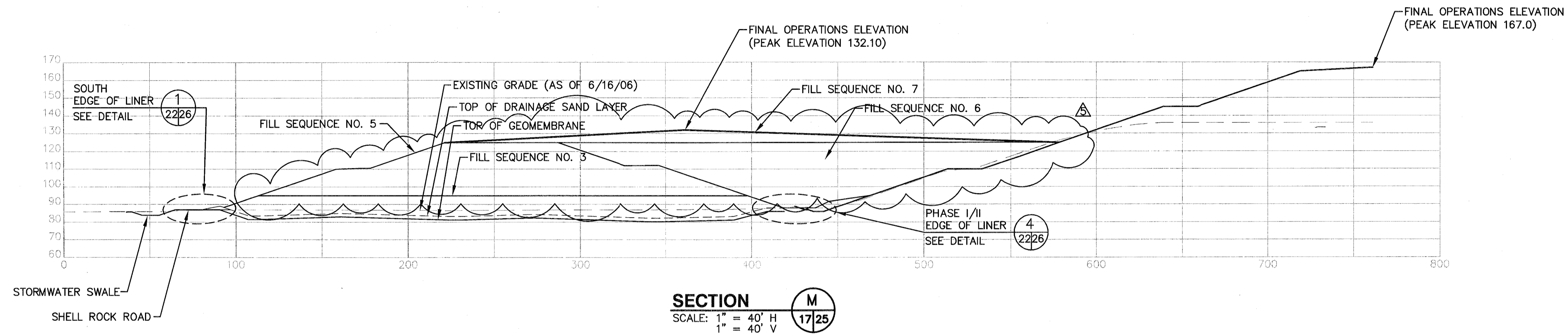
PROJECT TITLE
HARDEE COUNTY LANDFILL OPERATIONS DRAWINGS

CLIENT
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
6041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 874-0080 FAX 813 823-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892
091990333.12
TAMPA, FL 33610

DATE: MAY 2007
SCALE: AS SHOWN
DRAWING NO. 24 of 26

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
JAN 18 2011
SOUTHWEST DISTRICT TAMPA



REV	DATE	DESCRIPTION
1	05/14/10	REVISED FILL SEQUENCE
2	08/16/10	REVISED PER FDEP RAI NO. 1
3	01/14/11	REVISED PER FDEP RAI NO. 2

PHASE II SECTION I SECTIONS
HARDEE COUNTY LANDFILL OPERATIONS DRAWINGS

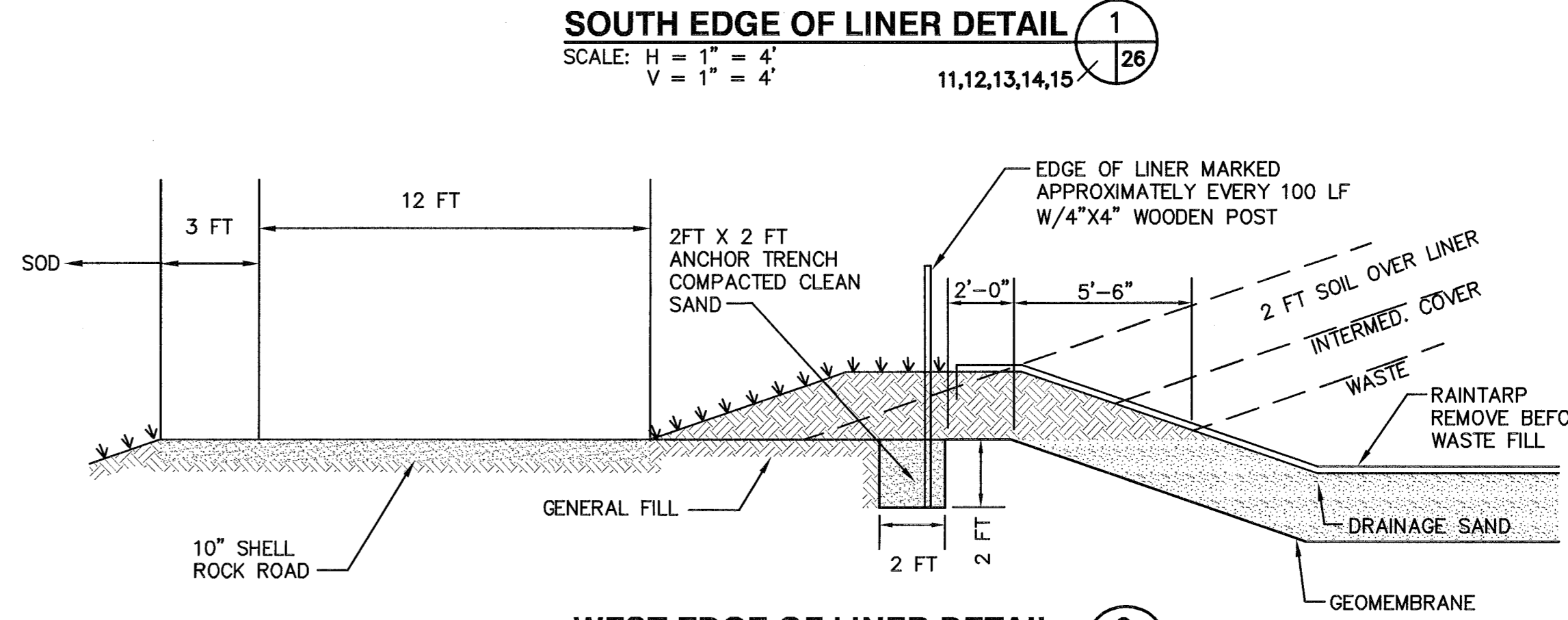
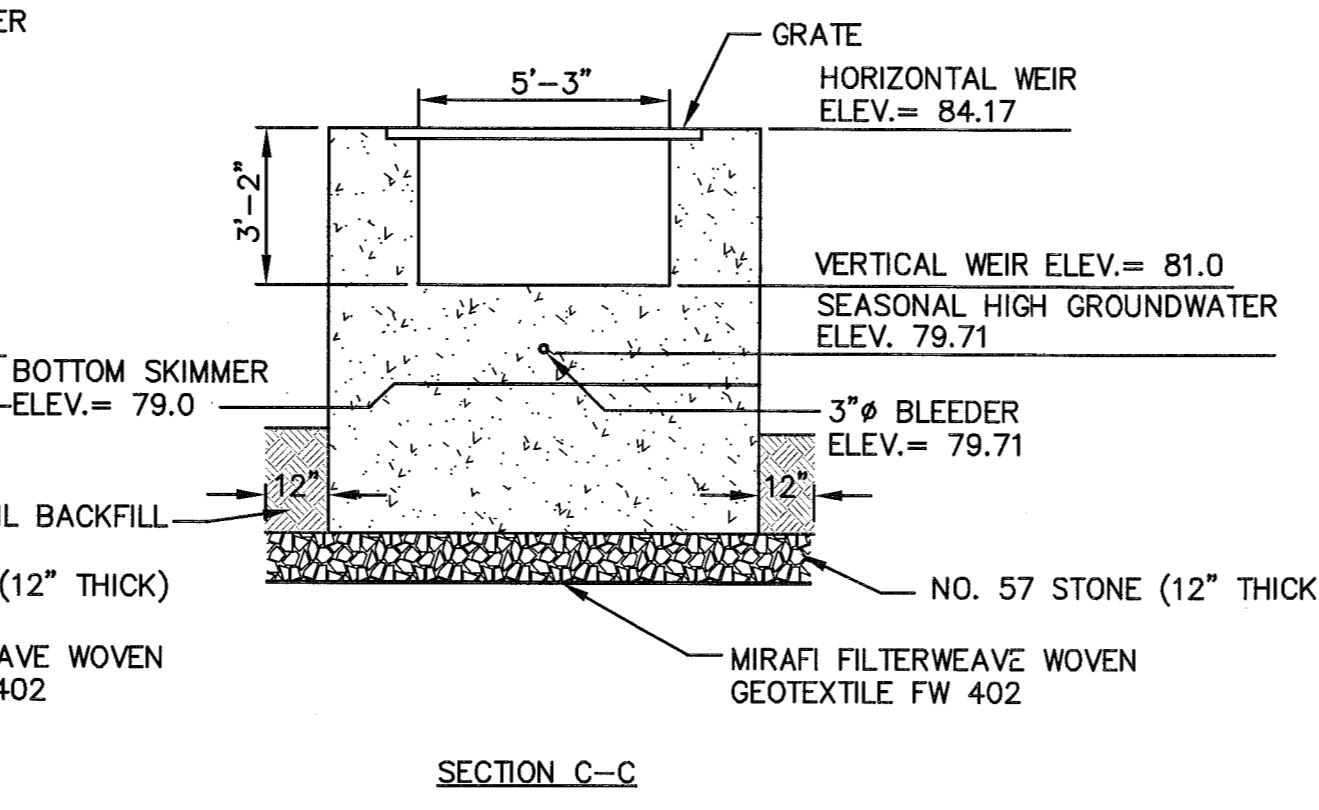
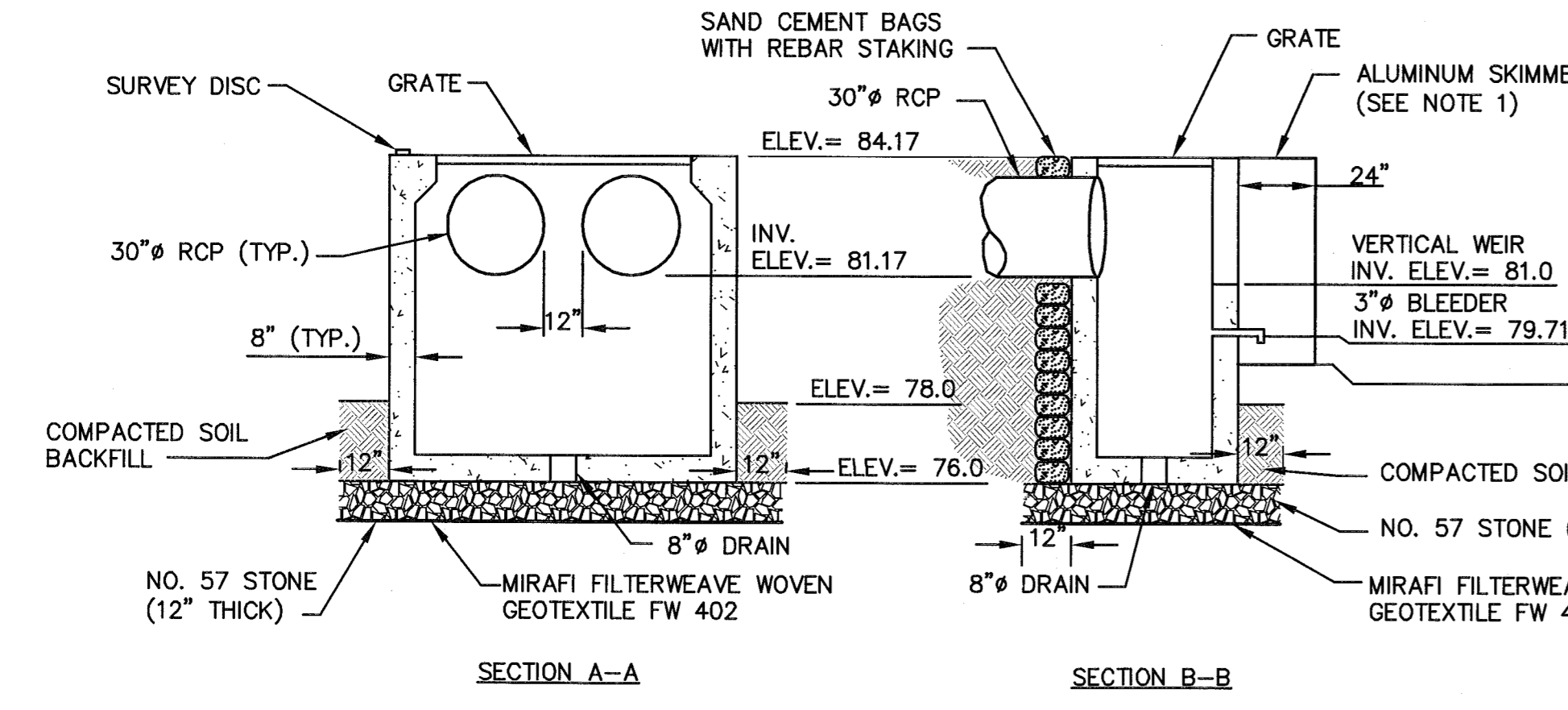
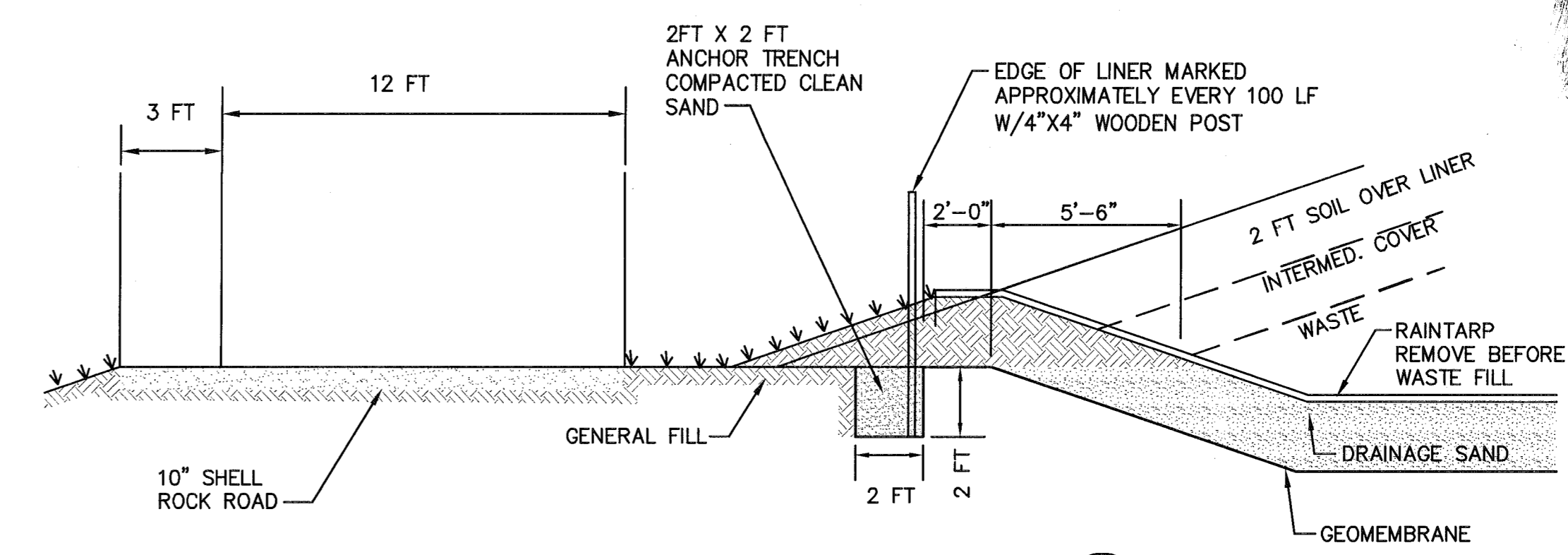
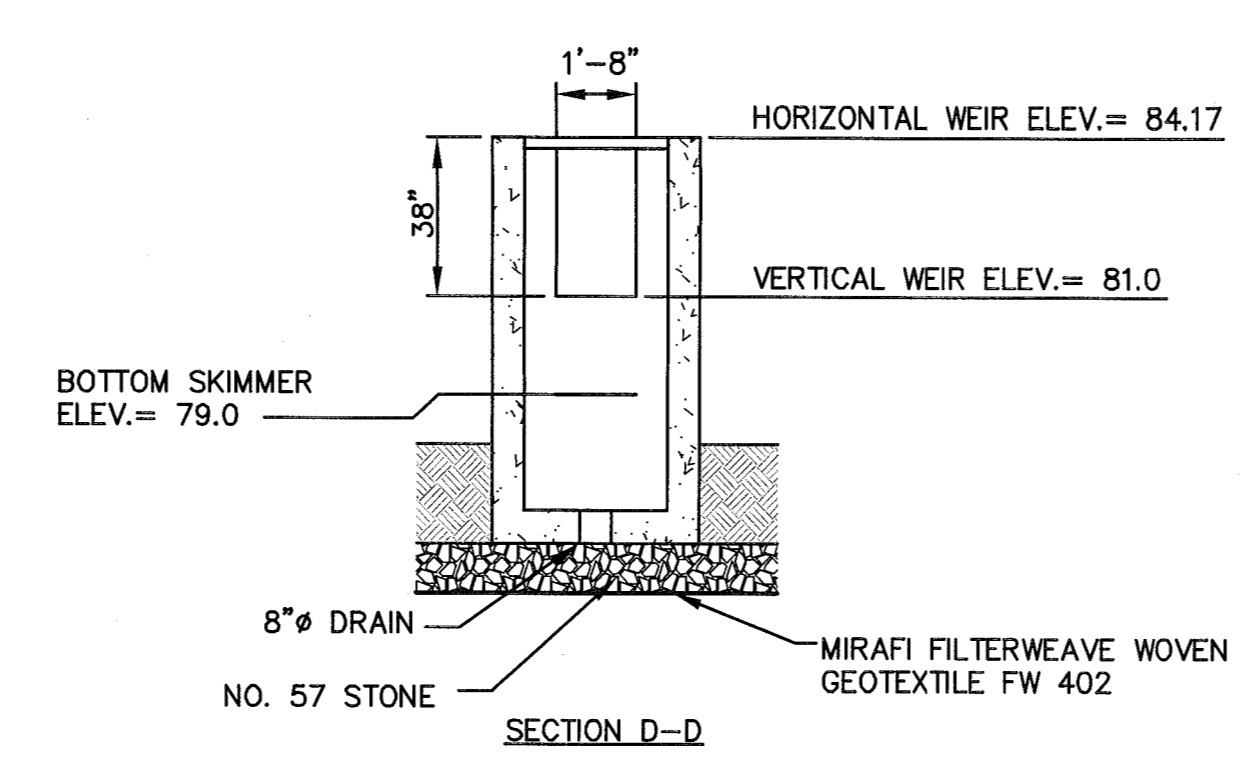
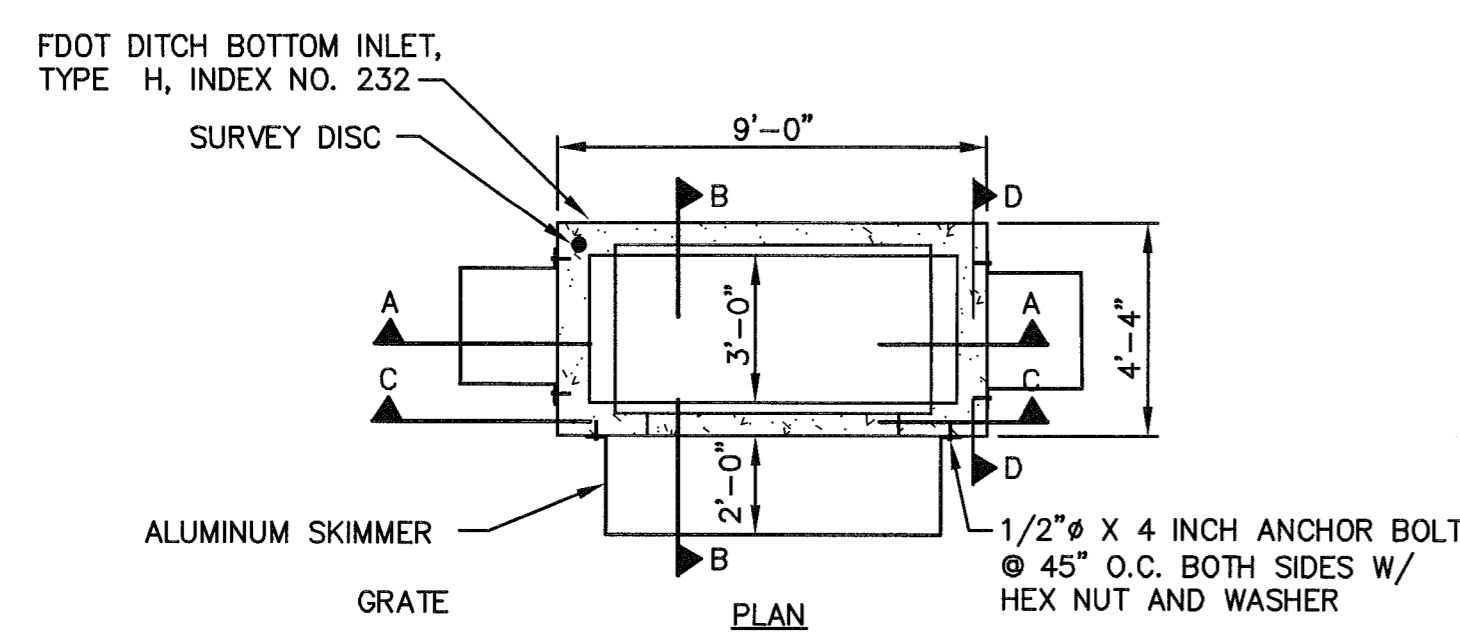
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 4041 PARKLOANS BLVD., SUITE 100, TAMPA, FL 33610
 813.827.0680 FAX 813.828.8757
 FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004882
 REG. NO. 091399033.12
 DESIGNER: SDA
 CHECKED: CEH
 DATE: JAN 18 2011
 SOUTH WEST DISTRICT TAMPA

CADD FILE: 993312P2S1SECTIONS
 DATE: MAY 2007
 SCALE: AS SHOWN
 DRAWING NO. 25 of 26

- NOTES:**
- SLOPES SHALL NOT EXCEED 3(H):1(V) AT ANY TIME, AFTER APPLICATION OF COVER SOILS. ALL FINAL SLOPES SHALL CONFORM TO THE DESIGN DIMENSIONS, SLOPES, AND ELEVATION.
 - ALL FILL SEQUENCE GRADES SHOWN ARE TOP OF INTERMEDIATE COVER.

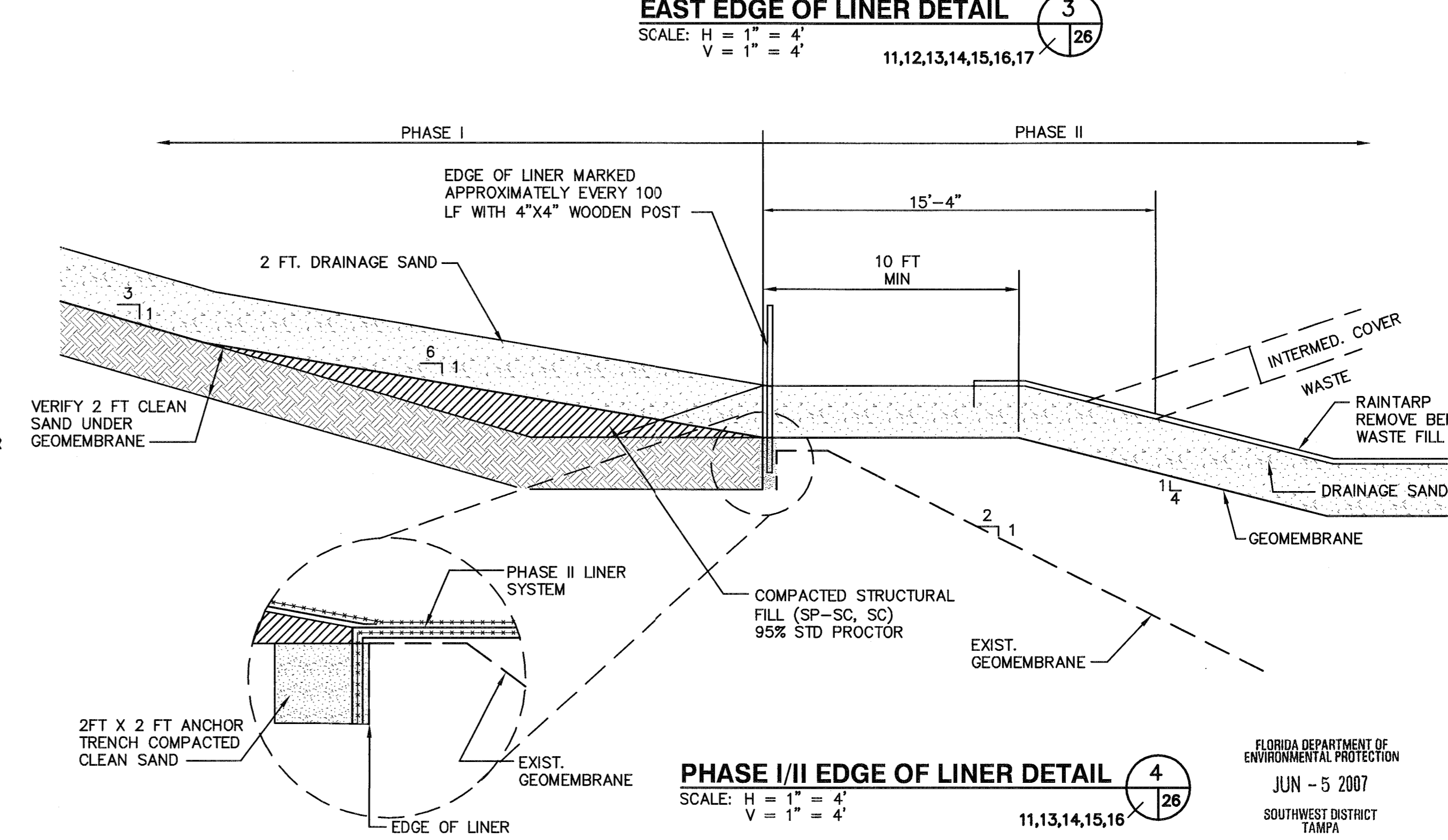
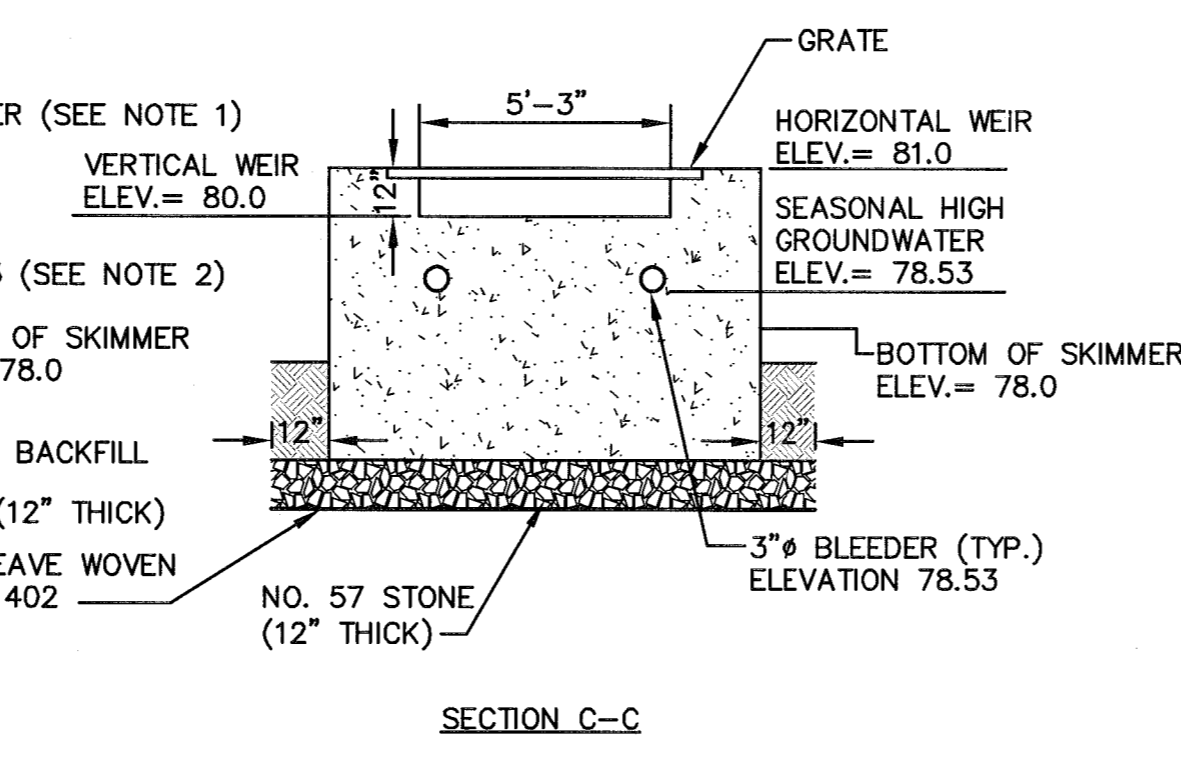
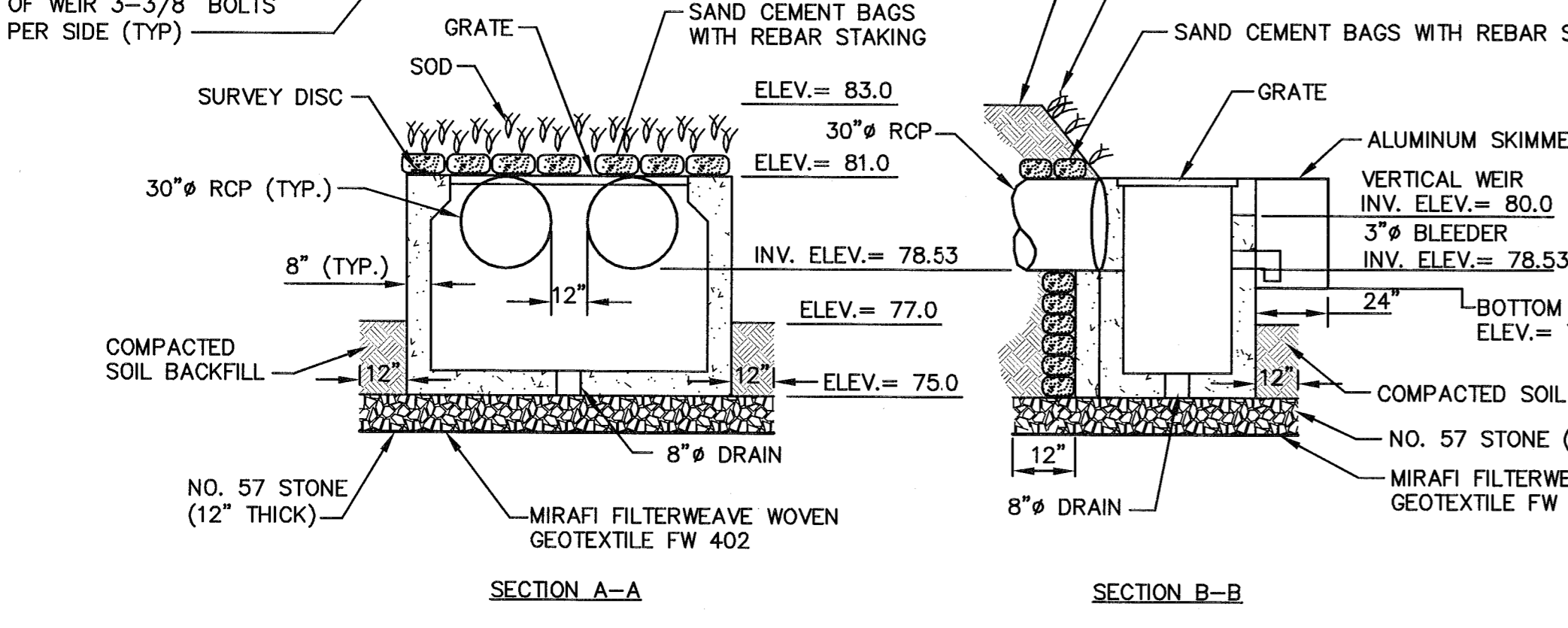
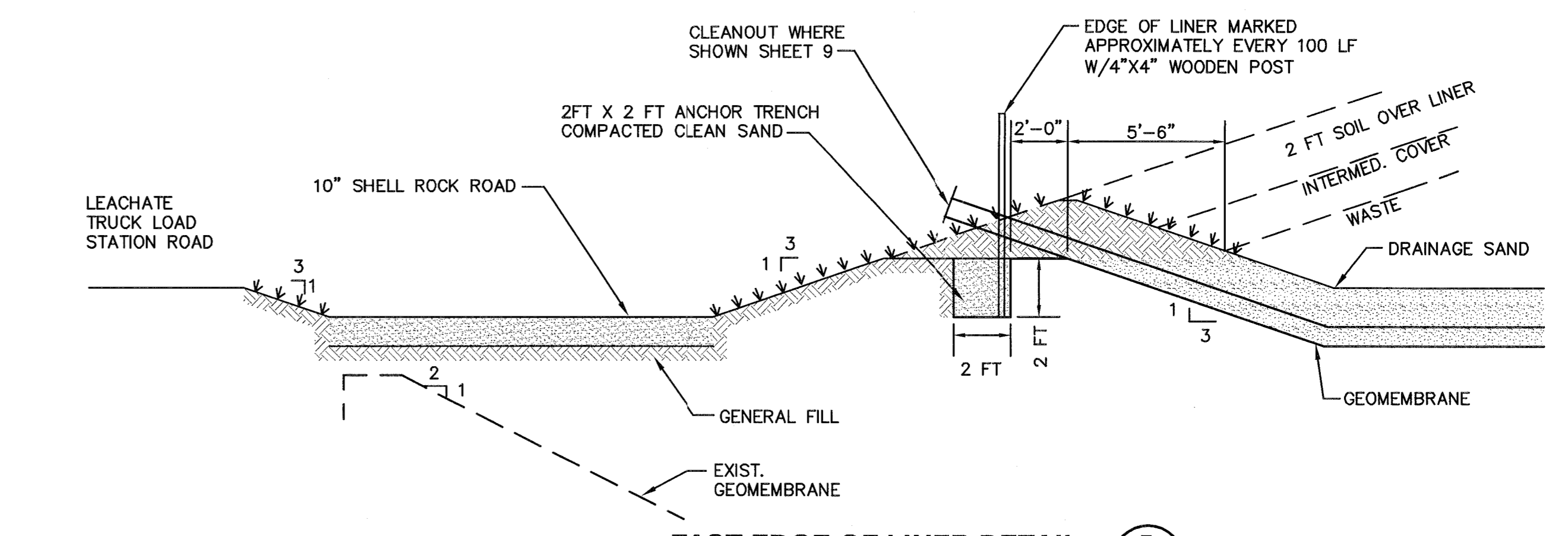
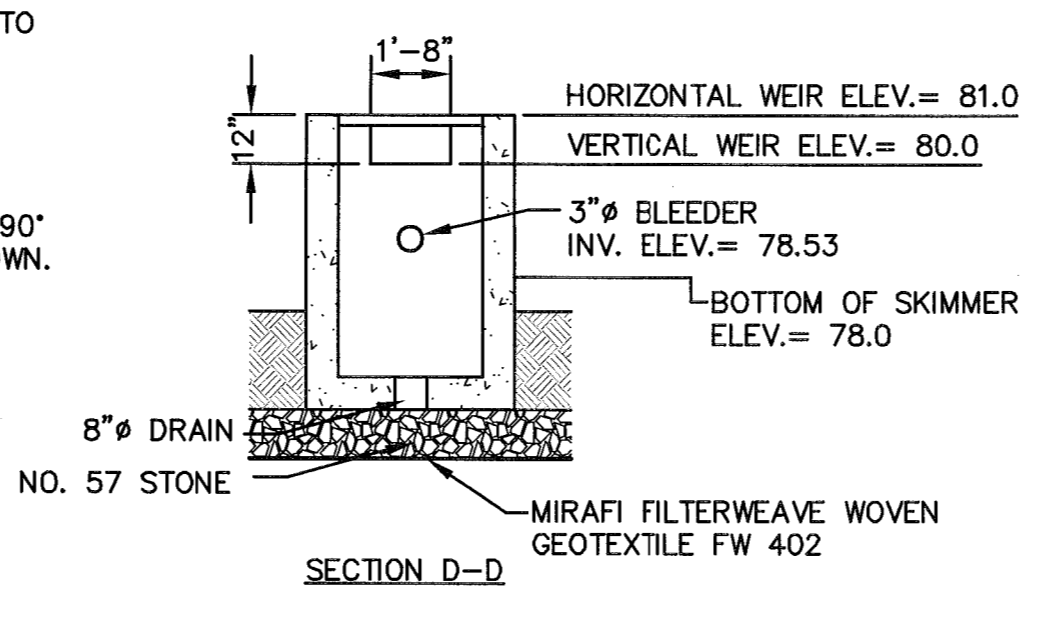
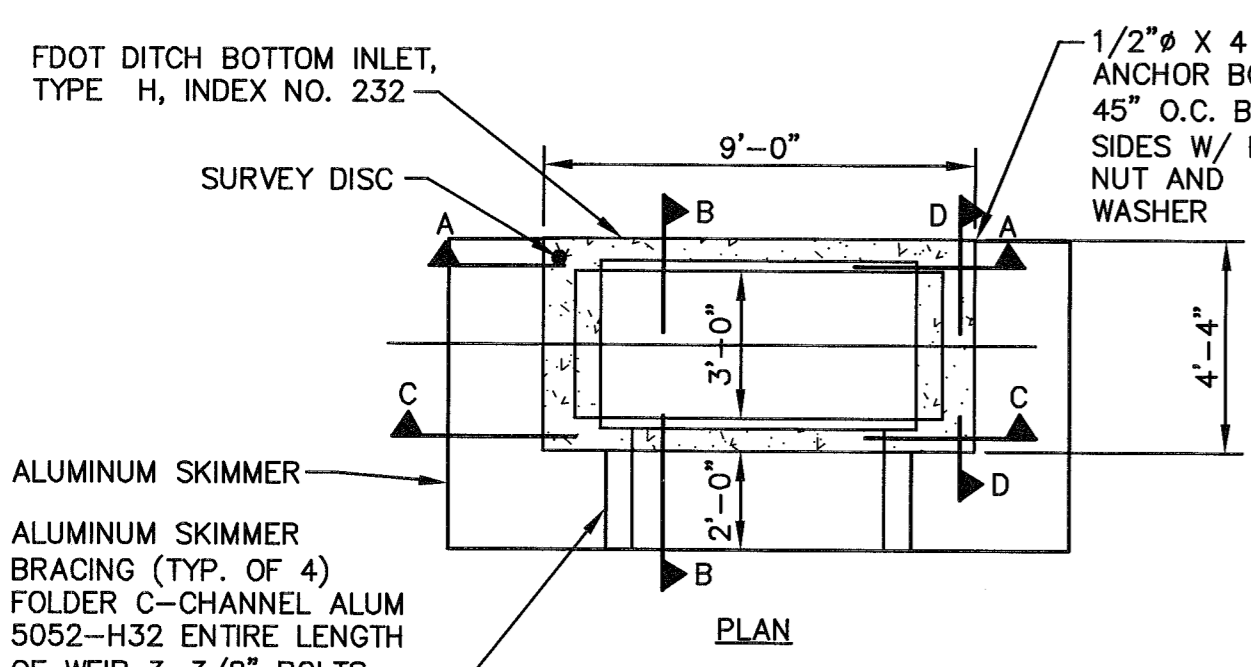
6:0306.C:\P\091399033.12\CS\0401-74701.dwg, 14, 2011, 1:32pm, Local, None, Sh, 17, 2226, SCS, Inc., SCS, Inc., 2226



DROP STRUCTURE SCHEDULE											
Location	Discharge Pipe Invert	Discharge Pipe Diameter (Inches)	No. of Discharge Pipes	Horizontal Weir Invert	Horizontal Weir Dimensions	Vertical Weir Invert	Vertical Weir Dimensions	No. of Vertical Weirs	Bleeder Elevation	Bleeder Diameter (Inches)	No. of Bleeders
Primary Pond	81.17	30	2	84.17	79"x36"	81	63"x38"	1	79.71	3	1
Borrow Pit	78.53	30	2	81.00	79"x36"	80	63"x12"	1	78.53	3	4

THE DROP STRUCTURES ARE FDOT DITCH BOTTOM INLETS, TYPE H, INDEX NO. 232

WETLAND DISCHARGE STRUCTURE DETAIL 5
NOT TO SCALE 9/26



OFF-SITE DISCHARGE STRUCTURE DETAIL 6
NOT TO SCALE 9/26

- NOTES:
- ALUMINUM SKIMMER COMPOSED OF 5052-H32 (ALLOY) ALUMINUM PLATE W/ RATED YIELD STRENGTH (BEARING) GREATER THAN OR EQUAL TO 27KSI PLACED ON ONE LAYER OF 240# ROOFING FELT (6'x37'). ALUMINUM SKIMMER WILL BE ATTACHED TO DROP STRUCTURE AT ELEVATION 80.75
 - ANTI-CLOG DEVICE - PLACE 3" PVC SCH 40 90° ELBOW AT END OF ALL BLEEDER HOLES; TURNDOWN.

BY	DESCRIPTION	DATE	REV

PHASE II SECTION I
DETAILS
HARDEE COUNTY
LANDFILL
OPERATIONS DRAWINGS

HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS

CLIENT: SCS ENGINEERS
STEARNES, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
401 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813-821-0088 FAX 813-826-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892
PROJECT NO. 03033.12
DATE: 05/03/07
DRAWN BY: SDA
CHECKED BY: CEH
APP. BY: CEH

CADD FILE: 993312XSEC
DATE: MAY 2007
SCALE: AS SHOWN
DRAWING NO.