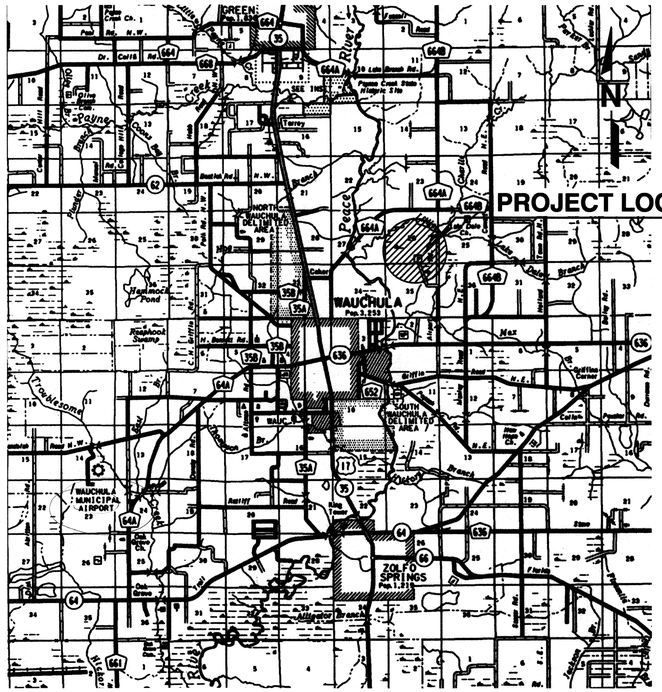
HARDEE COUNTY LANDFILL
PHASE II SECTION II
CONSTRUCTION DRAWINGS

PREPARED FOR

BOARD OF COUNTY COMMISSIONERS
HARDEE COUNTY, FLORIDA

APRIL 2013



LOCATION MAP
NOT TO SCALE

HARDEE COUNTY 19 21 FLORIDA

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
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. 09199033.23

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37	-	PHASE II SECTION I AND II FILL SEQUENCE NO. 6 SECTIONS

⚠ DRAWINGS REVISED PER R.A.I. NO. 1 – ISSUED 04/01/13

SHANE R. FISCHER LICENSE No. 58026 STATE OF FLORIDA PROFESSIONAL ENGINEER

SHANE R. FISCHER, P.E.
LICENSE NO. 58026

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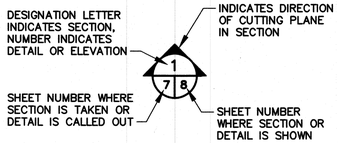
ABBREVIATIONS:

@	AT
∠	ANGLE
℄	CENTERLINE
Ø	DIAMETER
AB	ANCHOR BOLT
ADD'L	ADDITIONAL
ANCH	ANCHOR
APPROX	APPROXIMATE
BM	BEAM
BOT	BOTTOM
BP	BASE PLATE
C/C	CENTER TO CENTER
CIP	CAST IRON PIPE
CL	CENTER LINE
CLJ	CONTROL JOINT
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
C.O.	CLEAN OUT PORT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CPP	CORRUGATED PLASTIC PIPE
CTR	CENTER
CU FT	CUBIC FOOT/FEET
DET	DETAIL
DIA	DIAMETER
DI	DUCTILE IRON
DIP	DUCTILE IRON PIPE
D.O.	DITTO
DWG	DRAWING
DWL	DOWEL
E	EAST
EA	EACH
EF	EACH FACE
EL,ELEV	ELEVATION
ENCL	ENCLOSURE
EQL	EQUAL
EW	EACH WAY
FBV	FLORIDA BEARING VALUE
FDN	FOUNDATION
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
FE	FIRE EXTINGUISHER
FES	FLARED END SECTION
FIN	FINISHED
FL	FLOW LINE, OR FLORIDAN
FM	FORCE MAIN
FO	FIBER OPTIC
FT	FOOT
FTG	FOOTING
FTGS	FOOTINGS
FWM	FIRE MAIN WATER
GA	GAGE
GAL	GALLONS
GALV	GALVANIZED
HDPE	HIGH DENSITY POLYETHYLENE
H,HORIZ	HORIZONTAL
I.E.	INVERT ELEVATION
IN	INCH
INV	INVERT
IRR	IRRIGATION
JT	JOINT
KCJ	KEYED CONSTRUCTION JOINT
KWY	KEYWAY
L	ANGLE
LBR	LIMEROCK BEARING RATIO
LF	LINEAR FEET
MAX	MAXIMUM
MES	MITERED END SECTION
MFR	MANUFACTURER
MIN	MINIMUM
MH	MANHOLE
MW	MONITORING WELL
N	NORTH
NE	NORTHEAST
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
NW	NORTHWEST
OC	ON CENTER
OPNG	OPENING
PC	POINT OF CURVATURE
PE	POLYETHYLENE
PI	POINT OF INTERSECTION
POB	POINT OF BEGINNING
POE	POINT OF ENDING
PT	POINT OF TANGENT
PP	POWER POLE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYLCHLORIDE
PZ	PIEZOMETER
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RCW	RECLAIMED WATER
REINF	REINFORCING
REQ'D	REQUIRED
ROW	RIGHT OF WAY
S	SOUTH
SCHED,SCH	SCHEDULE
SE	SOUTHEAST
SECT	SECTION
SG	STAFF GAUGE
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SST	STAINLESS STEEL
STA	STATION
STD	STANDARD
STIR	STIRRUP
STL	STEEL
SW	SOUTHWEST, OR SURFACE WATER
T	TOP
T & B	TOP AND BOTTOM
TH	TEST HOLE
THK	THICKNESS
T.O.B.	TOP OF BOLT
T.O.C.	TOP OF CONCRETE
T.O.F.	TOP OF FOOTING
T.O.P.	TOP OF PAVEMENT, OR TOP OF PIPE
T.O.S.	TOP OF SLAB
T.O.W.	TOP OF WALL
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V,VERT	VERTICAL
W	WEST
W/O	WITHOUT
W//	WITH (COMBINATION FORM)
WM	WATER MAIN
WWF	WELDED WIRE FABRIC
WWM	WOVEN WIRE MESH



SECTION AND DETAIL DESIGNATION

GENERAL NOTES:

1. TOPOGRAPHIC SURVEY PERFORMED BY PICKETT & ASSOCIATES, INC., 475 SOUTH FIRST AVENUE, BARTOW, FLORIDA 33830, TEL. (863) 533-9095.
2. TOPOGRAPHIC SURVEY WAS PREPARED BY PHOTOGRAMMETRIC METHODS. SEE THE SURVEYOR'S REPORT FOR MAP ACCURACY AND SURVEYOR'S SIGNATURE AND SEAL. THIS SURVEY IS LIMITED TO THOSE FEATURES VISIBLE ON AERIAL PHOTOGRAPHY. AERIAL PHOTOGRAPHY PERFORMED APRIL 3, 2012.
3. HORIZONTAL DATUM COORDINATES ARE REFERENCED TO THE WEST ZONE OF THE FLORIDA STATE PLANE COORDINATE SYSTEM, NAD 1983, 1999 ADJUSTMENT. VERTICAL ELEVATIONS ARE REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929.
4. TRAFFIC MUST BE MAINTAINED AT ALL TIMES AS PER FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
5. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES, STRUCTURES, OR PRESERVATION AREAS AND OTHER FEATURES AFFECTING HIS WORK.
6. CONTRACTOR SHALL VERIFY ALL UTILITIES AND NOTIFY THE INDIVIDUAL UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION.
7. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, DRAINAGE CULVERTS, FENCES, ETC. WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION.
8. THE INFORMATION PROVIDED IN THESE PLANS AND REFERENCED IN THE AVAILABLE SOILS REPORT IS SOLELY TO ASSIST THE CONTRACTOR IN ACCESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
9. THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY ON CONFLICTS DURING CONSTRUCTION ON ANY IMPROVEMENTS SHOWN ON THE DRAWINGS.
10. PIPE LENGTHS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED AS REQUIRED IN THE FIELD, UPON APPROVAL BY ENGINEER.
11. EROSION CONTROL AND SEDIMENTATION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO BEGINNING ANY CLEARING AND GRUBBING. THEY SHALL BE INSTALLED TO THE LIMITS SHOWN ON THE DRAWING, REQUIRED IN THE SPECIFICATIONS AND IN ACCORDANCE WITH ALL REGULATORY AGENCY REQUIREMENTS.
12. THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS SHALL BE STRICTLY OBSERVED BY THE CONTRACTOR. ALL INGRESS, EGRESS AND TRAFFIC PATTERNS ON THE SITE SHALL BE WITHIN THE LIMITS OF CONSTRUCTION.
13. FINISHED GRADE FOR GROUND ELEVATIONS ON DRAWINGS REFER TO GRADE AFTER SODDING, OR OTHER SURFACE TREATMENT.
14. INSTALLATION OF ALL STORM SEWERS, INLETS, PIPE END TREATMENT AND APPURTENANCES SHALL BE IN ACCORDANCE WITH ALL REQUIREMENTS OF THE APPLICABLE SECTIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, OR AS INDICATED ON THE DRAWINGS.
15. CONTRACTOR SHALL PLACE PROTECTIVE BARRIERS AROUND EXISTING MONITORING WELLS TO PREVENT DAMAGE DUE TO CONSTRUCTION ACTIVITIES IF REQUESTED BY THE COUNTY.
16. THE CONTRACTOR SHALL INSTALL SILT FENCING AROUND PERIMETER OF LAYDOWN-STAGING AREA. AT THE CONCLUSION OF PROJECT THE ENTIRE LAYDOWN AREA WILL BE CLEARED OF ALL DEBRIS AND THE AREA SEEDED TO ESTABLISH A GRASS COVER AND STABILIZE THE SOIL.
17. SURFACE AND GROUND WATER ELEVATIONS AND STORMWATER RUNOFF VARY WITH THE TIME OF YEAR AND RAINFALL AMOUNTS ACROSS THE SITE. NEITHER THE CONSULTANT NOR THE COUNTY CAN ACCURATELY ESTIMATE THE SURFACE AND GROUND WATER ELEVATIONS THAT MAY BE ENCOUNTERED DURING THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHOULD BE PREPARED TO PERFORM THE WORK AND BASE THE BID ON THE POTENTIAL SURFACE AND GROUND WATER ON SITE.
18. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN SILT FENCE PER SECTION 01568 – TEMPORARY EROSION AND SEDIMENTATION CONTROL OF THE CONTRACT DOCUMENTS. FDOT DESIGN STANDARDS INDEX NO. 102 TYPE III SILT FENCE SHALL BE INSTALLED BY THE CONTRACTOR ALONG THE ENTIRE EXTERIOR LIMITS OF WORK TO PREVENT DAMAGE TO PROPERTIES OUTSIDE THE LIMITS OF WORK FROM SILTATION DUE TO CONSTRUCTION OF THE PROJECT.

SHANE R. FISCHER LICENSE NO. 58026 STATE OF FLORIDA PROFESSIONAL ENGINEER
SHANE R. FISCHER, P.E. LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: ABBREVIATIONS AND GENERAL NOTES

PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09J19033.23 | DSN. BY: SRF | DWN. BY: SDA | CHK. BY: SRF | Q/A RVW BY: CEH | APP. BY: SRF

CADD FILE: 993323GENNOTE

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO. 2 of 37

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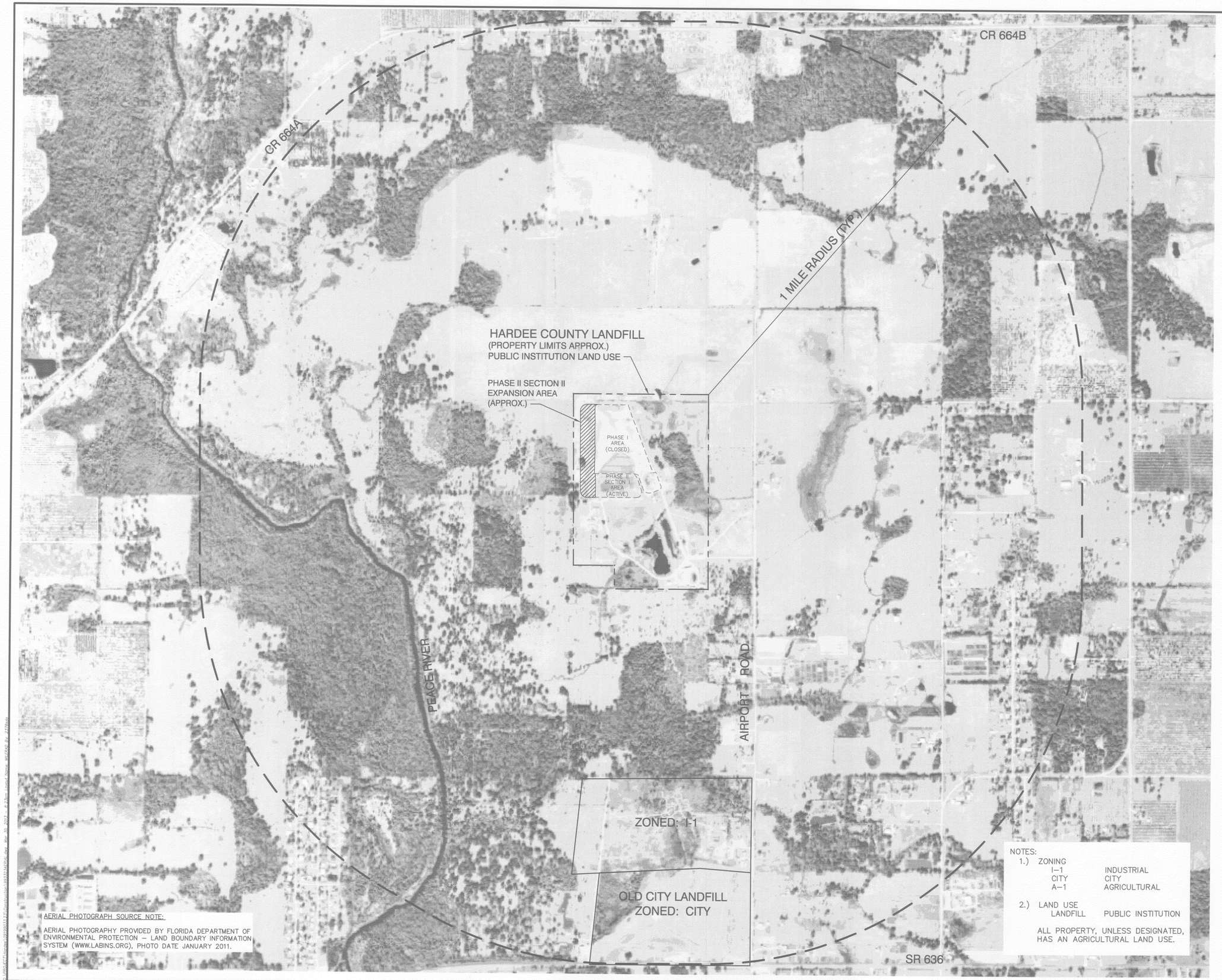

AERIAL PHOTOGRAPH SOURCE NOTE:

AERIAL PHOTOGRAPHY PROVIDED BY FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION – LAND BOUNDARY INFORMATION SYSTEM (WWW.LABINS.ORG), PHOTO DATE JANUARY 2011.

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.

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			

SHANE H. FISCHER, P.E.
LICENSE NO. 58026

DRAWING TITLE: OVERALL AERIAL SITE PLAN (JANUARY 2011)

PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION DRAWINGS

CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
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4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJECT NO: 09199033.23
DSN. BY: SRF
DWN. BY: SDA
CHK. BY: SRF
QA/A RVW. BY: CEH
APP. BY: SRF

CADD FILE: 993323AERIAL

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO. 3 of 37

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EXISTING

EXISTING MONITORING WELL TABLE		
WELL NUMBER	NORTHING	EASTING
MW-1	1177604.2260	726482.488
MW-2	1176800.972	727061.767
MW-4	1177588.34	727469.216
*MW-5	1177136.888	726199.5
MW-6	1176081.769	726652.386
MW-7	1175903.729	726370.416
*MW-8	1176543.71	726234.815
*MW-3	1176439.418	726193.823
MW-10R	1176262.89	726947.09
MW-11	1176198.382	726695.813
MW-12R	1176201.53	726403.89

EXISTING GAS PROBE TABLE		
PROBE NUMBER	NORTHING	EASTING
GP-1	1177602.658	726820.612
GP-2	1177601.357	726490.331
*GP-3	1177593.371	726188.964
*GP-4	1177304.268	726203.456
*GP-5	1176913.338	726205.276
*GP-6	1176692.365	726207.86
GP-9	1176697.437	727108.717
GP-10	1177021.197	726982.352
GP-11	1177341.968	726852.393
GP-12	1175710.195	726496.639
GP-13	1175700.036	726690.812

EXISTING PIEZOMETER TABLE		
WELL NUMBER	NORTHING	EASTING
P-7	1175812.82	726774.259
P-8	1175724.264	726530.637
P-11	1177153.801	726939.428
P-13	1176047.296	726494.261
P-14	1175889.67	726516.147
P-17	1177698.331	726212.616
P-18	1177585.22	725955.47
P-19	1177685.19	726890.75
P-20	1177564.956	726849.789
P-21	1177000.302	727105.589
P-22	1176021.166	726023.336
P-23	1175717.48	726021.42

EXISTING STAFF GAUGE TABLE		
POINT NUMBER	NORTHING	EASTING
SG 1	1177149.111	727100.065
SG 2	1177217.671	727292.17

* DENOTES GAS PROBE OR MONITORING WELL TO BE ABANDONED (TYP.)

NEW

NEW MONITORING WELL TABLE		
WELL NUMBER	NORTHING	EASTING
MW-13	1176675.10	725978.03
MW-14	1177140.10	725974.39

NEW GAS PROBE TABLE		
PROBE NUMBER	NORTHING	EASTING
GP-3R	1177624.46	726157.43
GP-4R	1177308.20	725945.51
GP-5R	1177004.63	725946.99
GP-6R	1176702.21	725946.53
GP-7R	1176402.21	725946.53
GP-8R	1176099.87	725949.54

N

200 100 0 200

SCALE IN FEET

LEGEND

- MW-13 — NEW GROUNDWATER MONITORING WELL
- MW-7 — EXISTING GROUNDWATER MONITORING WELL
- GP-7R — NEW GAS MONITORING PROBE
- GP-6 — EXISTING GAS MONITORING PROBE
- P-15 — EXISTING PIEZOMETER
- EXISTING MANHOLE
- SG-2 — EXISTING STAFF GUAGE
- EXISTING GROUNDWATER COLLECTION SYSTEM CLEANOUTS (APPROX. TYP. 9)
- EXISTING LFG CUTOFF TRENCH
- EXISTING LANDFILL PHASE LIMITS (APPROX.)
- PROPERTY LINE
- WETLAND LIMITS
- CONTRACTORS CONSTRUCTION LAYDOWN/STAGING AREA (APPROX.) – SEE NOTE 1.
- EXISTING LEACHATE COLLECTION PIPE AND MANHOLE
- APPROXIMATE LIMITS OF PHASE II SECTION II GEOMEMBRANE

NOTE:

1. THE GENERAL LOCATION OF THE CONTRACTOR'S CONSTRUCTION LAYDOWN/STAGING AREA IS SHOWN ON THE DRAWING. THE COUNTY AND THE CONTRACTOR WILL COORDINATE ON THE FINAL BOUNDARIES OF THE CONSTRUCTION LAYDOWN/STAGING AREA AND CONTRACTOR'S ACCESS FROM THE AREA TO THE MAIN ROAD AT THE PRE-CONSTRUCTION MEETING. THE CONSTRUCTION LAYDOWN/STAGING AREA SHALL BE GRADED TO EXISTING GRADES, SEEDED AND MULCHED AS REQUIRED UPON COMPLETION OF THE PROJECT PER THE SPECIFICATIONS.

AERIAL PHOTOGRAPH SOURCE NOTE:

AERIAL PHOTOGRAPHY PERFORMED BY
PICKETT & ASSOCIATES, INC.
502 MAIN STREET
WACHULA, FLORIDA 33873
PHONE: (863) 773-3990
PHOTO DATE: APRIL 3, 2012.

JANINE R. FISCHER LICENSE NO. 58026 STATE OF FLORIDA PROFESSIONAL ENGINEER
SHANE R. FRANKLIN, P.E. LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: EXISTING CONDITIONS AERIAL PHOTOGRAPH (04/03/2012)

PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.23 | DSN. BY: SRF | DRN. BY: SDA | CHK. BY: SRF | QA/A R/W BY: CEH | APP. BY: SRF

CADD FILE: 993323AERIAL

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO. 4 of

FND 4"X4" CM
N 1177605.9419
E 725850.9459

SE CORNER, SE¼
SEC. 26-33-25

NE CORNER, NE¼
SEC. 35-33-25

REC. IR&C CSI

N00°23'39"W 100.00'

81.92'

N89°55'46"E 2325.42'

N89°55'46"E 1909.77'

N00°17'41"W 100.00'

663.84'

FND 4"X4" CM

N 1177,500

N 1177,000

N 1176,500

E 726,000

E 726,500

E 727,000

E 727,500

E 728,000

GUN RANGE

GUN RANGE

W.E 79.6

W.E 78.6

W.E 79.4

RIP RAP

NOTE: FORMER SOIL STOCKPILE REMOVED TO ASSUMED ELEV. 86.0.

86.0

PHASE I (CLOSED)

PHASE II SECTION 2 (ACTIVE)

2416.76'

2316.45'

2317.86' (D)

2316.76' (C&F)

N00°23'19"W

N00°23'19"W

CULVERT

CULVERT

TANK

TANK

TANK

PIPES

E 727169.07
N 1176229.17
EL 83.18
PT#8

PROPERTY LINE (TYP.)

2745.00'

2645.00'

S00°17'41"E

DENSE TREES

MATCH LINE (SEE DRAWING NO. 6)

80 40 0 80
SCALE IN FEET

N

SURVEY SOURCE NOTE:

TOPOGRAPHIC SURVEY PERFORMED BY:
PICKETT & ASSOCIATES, INC.
475 SOUTH FIRST AVENUE
BARTOW, FLORIDA 33830
PHONE: (863) 533-9095
PHOTO DATE: APRIL 3, 2012.

SURVEY NOTES:

1. NORTH, THE GRID, AND THE COORDINATES SHOWN HEREON ARE REFERENCED TO THE WEST ZONE OF THE FLORIDA STATE PLANE COORDINATE SYSTEM, NAD 83, 1999 ADJUSTMENT.
2. ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
3. THIS TOPOGRAPHIC SURVEY WAS PREPARED BY PHOTOGRAMMETRIC METHODS. SEE THE SURVEYOR'S REPORT FOR MAP ACCURACY, SURVEYOR'S SIGNATURE, SEAL, AND REFERENCE BENCHMARK INFORMATION. THIS MAP IS LIMITED TO THOSE FEATURES VISIBLE ON AERIAL PHOTOGRAPHY.

LEGEND:

(THESE FEATURES ARE REPRESENTED BY SYMBOLS NOT TO SCALE)

- CONTROL
- PT# TARGET NUMBER
- N NORTHING
- E EASTING
- EL ELEVATION
- UTILITY POLE
- LIGHT POLE
- SIGN
- TRAFFIC LIGHT
- POST
- VALVE
- FLAG
- MAIL BOX
- GUYWIRE
- MANHOLE
- HYDRANT
- CULVERT
- CATCH BASIN
- AIR CONDITIONER
- ELECTRICAL
- MISCELLANEOUS SYMBOL
- TREE
- PALM
- SHRUB
- SWAMP/MARSH
- TOWER

(THESE FEATURES ARE TO SCALE)

- CURB
- PAVED SURFACE
- CONCRETE SURFACE
- UNPAVED ROAD
- FENCE
- GUARDRAIL
- WALL
- RAILROAD
- STRUCTURE
- TREE LINE
- SHRUB LINE
- MISC MISCELLANEOUS
- PIPELINE
- RECREATION
- EDGE OF GROVE
- EDGE OF WATER
- SWAMPLINE
- OBSCURED CONTOUR
- DEPRESSION CONTOUR

(THESE INFORMATIVE LABELS ARE NOT SCALE DEPENDENT)

- W.E. WATER ELEVATION
- × 120.1 SPOT ELEVATION
- × 120.1 OBSCURED SPOT
- 95 ELEVATION CONTOUR (5-FOOT INTERVAL)
- ELEVATION CONTOUR (1-FOOT INTERVAL)

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			

BRIAN R. FISCHER
LICENSED
PROFESSIONAL SURVEYOR & MAPPER
STATE OF FLORIDA
BRIAN R. FISCHER, P.E.
LICENSE NO. 58026

DRAWING TITLE
EXISTING CONDITIONS NORTH TOPOGRAPHIC SURVEY (04/03/2012)

PROJECT TITLE
HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION DRAWINGS

CLIENT
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

SCS ENGINEERS
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813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.23
DWN. BY: SDA
CHK. BY: SRF
D/A RVW BY: CEH
APP. BY: SRF

CADD FILE: 993323EXTOPO

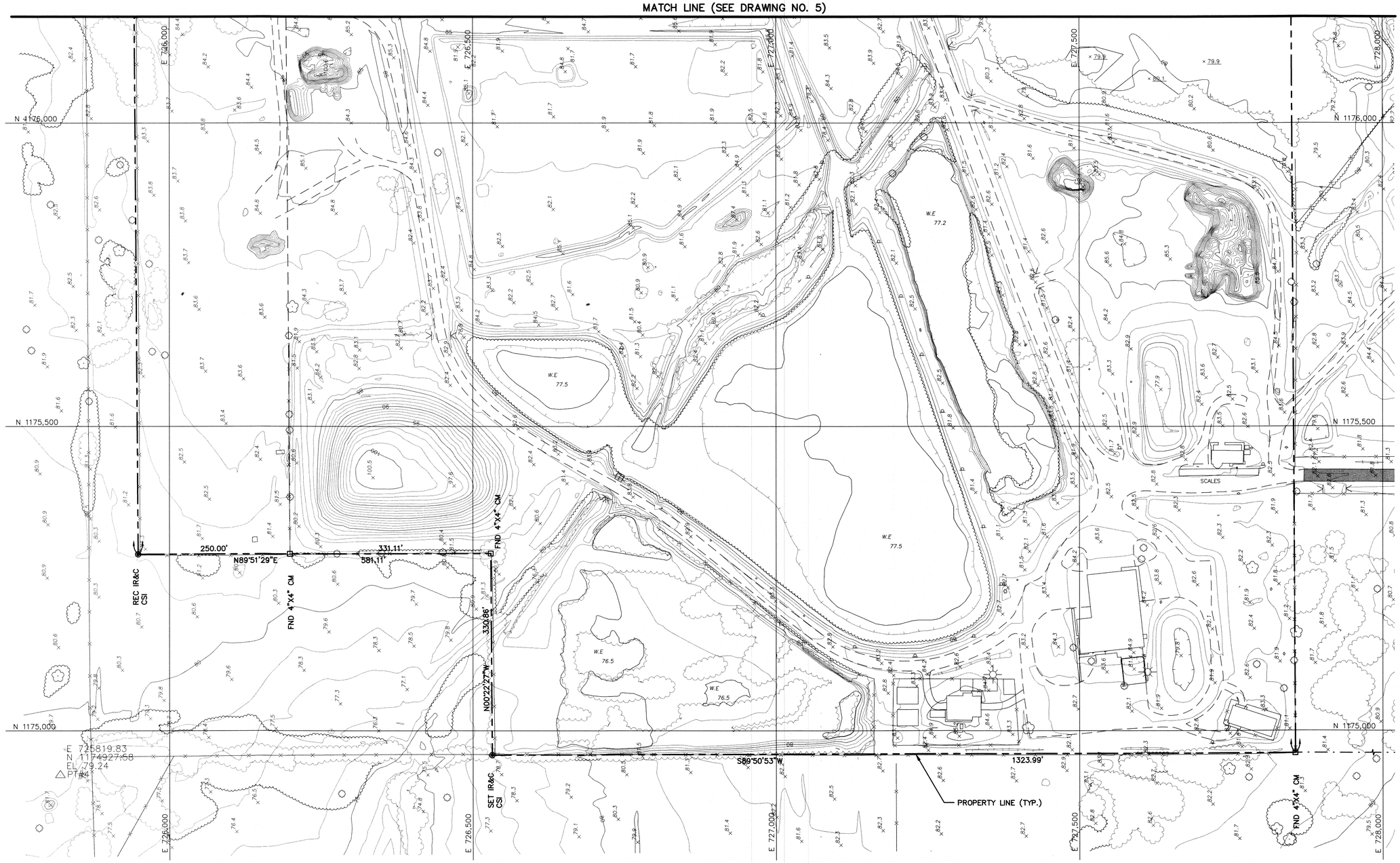
DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO. **5** of **37**

G:\SCS ENGINEERS\09199033.23 Hardee County Landfill\Drawings\Phase II\Section II\Drawings\Topo\Topo.dwg Apr 30, 2013 - 8:42am Brian Fischer, Eastern Time By: BFisher

MATCH LINE (SEE DRAWING NO. 5)



N

80 40 0 80
SCALE IN FEET

SURVEY SOURCE NOTE:

TOPOGRAPHIC SURVEY PERFORMED BY:
PICKETT & ASSOCIATES, INC.
475 SOUTH FIRST AVENUE
BARTOW, FLORIDA 33830
PHONE: (863) 533-9095
PHOTO DATE: APRIL 3, 2012.

SURVEY NOTES:

1. NORTH, THE GRID, AND THE COORDINATES SHOWN HEREON ARE REFERENCED TO THE WEST ZONE OF THE FLORIDA STATE PLANE COORDINATE SYSTEM, NAD 83, 1999 ADJUSTMENT.
2. ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
3. THIS TOPOGRAPHIC SURVEY WAS PREPARED BY PHOTOGRAMMETRIC METHODS. SEE THE SURVEYOR'S REPORT FOR MAP ACCURACY, SURVEYOR'S SIGNATURE, SEAL, AND REFERENCE BENCHMARK INFORMATION. THIS MAP IS LIMITED TO THOSE FEATURES VISIBLE ON AERIAL PHOTOGRAPHY.

LEGEND:

(THESE FEATURES ARE REPRESENTED BY SYMBOLS NOT TO SCALE)

- CONTROL
- PT# TARGET NUMBER
- N NORTHING
- E EASTING
- EL ELEVATION
- UTILITY POLE
- LIGHT POLE
- SIGN
- TRAFFIC LIGHT
- POST
- VALVE
- FLAG
- MAIL BOX
- GUYWIRE
- MANHOLE
- HYDRANT
- CULVERT
- CATCH BASIN
- AIR CONDITIONER
- ELECTRICAL
- MISCELLANEOUS SYMBOL
- TREE
- PALM
- SHRUB
- SWAMP/MARSH
- TOWER

(THESE FEATURES ARE TO SCALE)

- CURB
- PAVED SURFACE
- CONCRETE SURFACE
- UNPAVED ROAD
- FENCE
- GUARDRAIL
- WALL
- RAILROAD
- STRUCTURE
- TREE LINE
- SHRUB LINE
- MISC MISCELLANEOUS
- PIPELINE
- RECREATION
- EDGE OF GROVE
- EDGE OF WATER
- SWAMPLINE
- OBSCURED CONTOUR
- DEPRESSION CONTOUR

(THESE INFORMATIVE LABELS ARE NOT SCALE DEPENDENT)

- W.E. WATER ELEVATION
- × 120.1 SPOT ELEVATION
- × 120.1 OBSCURED SPOT
- 95 ELEVATION CONTOUR (5-FOOT INTERVAL)
- ELEVATION CONTOUR (1-FOOT INTERVAL)

REV	DATE	DESCRIPTION	BY

JAIME R. FISCHER — LICENSED PROFESSIONAL ENGINEER — STATE OF FLORIDA
SHANE R. FISCHER, P.E.
LICENSE NO. 58026

DRAWING TITLE
EXISTING CONDITIONS SOUTH
TOPOGRAPHIC SURVEY (04/03/2012)

PROJECT TITLE
HARDEE COUNTY LANDFILL
PHASE II SECTION II EXPANSION
CONSTRUCTION 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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09190333.23
DSN. BY: SRF
DWN. BY: SDA
CHK. BY: SRF
Q/A RVW BY: CEH
APP. BY: SRF

CADD FILE: 993323EXTOPO
DATE: APRIL 2013
SCALE: AS SHOWN
DRAWING NO. **6** of **37**

G:\SCS Projects\09190333.23\Civil\Hardee Phase II Section II\Drawings\Hardee Phase II Section II Expansion Construction Drawings.dwg, Apr 08, 2013 - 9:42am, Kevin Horne, Fortius South Fl v2012.ctb

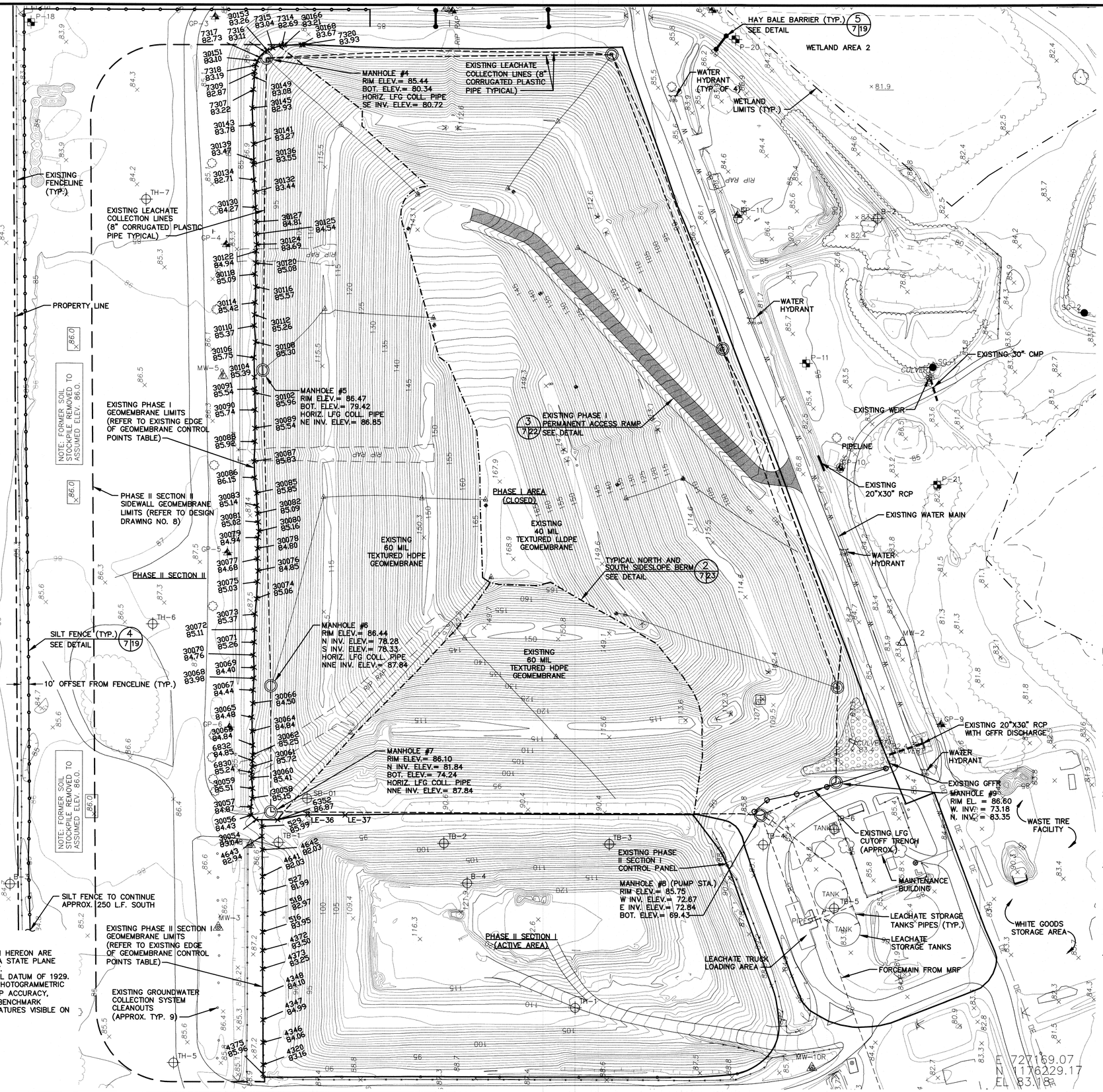
EXISTING EDGE OF GEOMEMBRANE CONTROL POINTS TABLE			
PHASE I			
POINT NO.	NORTHING	EASTING	ELEV.
6352	1176575.36	726268.86	86.87
6830	1176634.79	726236.20	85.24
6832	1176649.88	726237.10	84.85
7307	1177500.33	726237.77	83.22
7309	1177522.85	726239.30	82.87
7314	1177556.67	726273.80	82.69
7315	1177553.10	726261.87	83.04
7316	1177548.53	726251.95	83.11
7317	1177541.37	726245.22	82.73
7318	1177531.41	726240.95	83.19
7320	1177557.59	726300.26	83.93
30054	1176575.38	726241.81	83.04
30056	1176581.27	726235.48	84.43
30057	1176591.49	726235.30	84.87
30058	1176602.76	726236.60	85.15
30059	1176614.77	726237.30	85.51
30060	1176628.47	726235.87	85.41
30061	1176642.39	726236.69	85.72
30062	1176657.38	726237.30	85.25
30063	1176669.44	726237.66	84.84
30064	1176687.39	726236.72	84.84
30065	1176704.83	726236.45	84.48
30066	1176722.75	726237.49	84.50
30067	1176739.20	726237.86	84.44
30068	1176754.36	726239.05	83.98
30069	1176767.82	726239.10	84.40
30070	1176783.88	726238.34	84.76
30071	1176799.90	726239.33	85.26
30072	1176816.01	726239.79	85.11
30073	1176835.50	726240.34	85.37
30074	1176855.30	726242.13	85.06
30075	1176876.44	726243.40	85.03
30076	1176890.39	726243.84	84.85
30077	1176905.67	726243.59	84.68
30078	1176918.75	726243.15	84.80
30079	1176932.01	726244.23	84.94
30080	1176940.16	726245.08	85.16
30081	1176951.31	726244.44	85.02
30082	1176962.71	726243.15	85.09
30083	1176972.29	726242.73	85.14
30085	1176988.54	726241.84	85.85
30086	1177007.69	726239.81	86.15
30087	1177028.59	726238.95	85.83
30088	1177053.37	726240.06	85.92
30089	1177070.62	726239.89	85.54
30090	1177093.55	726240.19	85.74
30091	1177120.23	726240.02	85.54
30102	1177115.63	726239.77	85.96
30104	1177135.28	726239.29	85.39
30106	1177159.77	726238.74	85.75
30108	1177179.95	726240.67	85.30
30110	1177200.53	726239.17	85.37
30112	1177214.78	726239.17	85.26
30114	1177229.97	726240.17	85.42
30116	1177250.11	726240.89	85.57
30118	1177266.27	726239.92	85.09
30120	1177280.46	726240.91	85.08
30122	1177295.20	726241.46	84.94
30124	1177303.91	726241.99	83.69
30125	1177317.09	726241.37	84.54
30127	1177332.62	726241.20	84.81
30130	1177350.72	726240.59	84.27
30132	1177370.54	726239.80	83.44
30134	1177385.65	726238.52	82.71
30136	1177405.43	726237.45	83.55
30139	1177410.66	726238.10	83.47
30141	1177431.42	726237.91	83.27
30143	1177455.81	726236.91	83.78
30145	1177477.13	726236.14	82.93
30149	1177516.56	726238.60	83.08
30151	1177536.88	726242.70	83.10
30153	1177550.26	726255.13	83.26
30166	1177556.78	726276.50	83.21
30168	1177557.52	726298.49	83.67
LE–36	1176581.89	726307.44	83.89
LE–37	1176581.43	726354.95	84.36
PHASE II SECTION I			
POINT NO.	NORTHING	EASTING	ELEV.
516	1176433.66	726249.99	83.95
518	1176456.87	726250.29	82.97
527	1176483.79	726249.81	81.99
529	1176567.06	726249.29	85.99
4320	1176265.62	726250.98	83.16
4346	1176293.94	726250.80	84.06
4347	1176322.48	726250.71	84.99
4348	1176354.55	726250.49	84.10
4372	1176410.37	726250.10	83.50
4373	1176386.89	726250.16	83.25
4375	1176253.85	726251.00	85.96
4641	1176503.68	726249.87	82.03
4642	1176537.47	726249.68	82.03
4643	1176554.72	726249.44	82.94

SURVEY NOTES:

1. NORTH, THE GRID, AND THE COORDINATES SHOWN HEREON ARE REFERENCED TO THE WEST ZONE OF THE FLORIDA STATE PLANE COORDINATE SYSTEM, NAD 83, 1999 ADJUSTMENT.
2. ELEVATIONS ARE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929.
3. THIS TOPOGRAPHIC SURVEY WAS PREPARED BY PHOTOGRAMMETRIC METHODS. SEE THE SURVEYOR'S REPORT FOR MAP ACCURACY, SURVEYOR'S SIGNATURE, SEAL, AND REFERENCE BENCHMARK INFORMATION. THIS MAP IS LIMITED TO THOSE FEATURES VISIBLE ON AERIAL PHOTOGRAPHY.

SURVEY SOURCE NOTE:

TOPOGRAPHIC SURVEY PERFORMED BY:
PICKETT & ASSOCIATES, INC.
475 SOUTH FIRST AVENUE
BARTOW, FLORIDA 33830
PHONE: (863) 533–9095
PHOTO DATE: APRIL 3, 2012.



NOTES:

1. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING LINER, UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS AND SERVE AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED.
2. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THERE MAY BE SOME AREAS OF POSSIBLE UTILITY CONFLICTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO EXISTING UTILITIES AT NO ADDITIONAL COST TO THE COUNTY.
3. THE COUNTY AND THE CONTRACTOR WILL COORDINATE ON THE FINAL BOUNDARIES OF THE CONTRACTORS CONSTRUCTION LAYDOWN/STAGING AREA AND CONTRACTOR'S ACCESS FROM THE AREA TO THE MAIN ROAD AT THE PRE–CONSTRUCTION MEETING. THE CONSTRUCTION LAYDOWN/STAGING AREA SHALL BE GRADED TO EXISTING GRADES, SEEDED AND MULCHED AS REQUIRED UPON COMPLETION OF THE PROJECT PER THE SPECIFICATIONS.
4. QUANTITY AND LOCATION OF SILT FENCE MAY VARY. CONTRACTOR SHALL HAVE EROSION AND SEDIMENTATION CONTROLS IN PLACE DURING ALL CONSTRUCTION ACTIVITIES TO THE SATISFACTION OF THE ENGINEER.

STEVEN R. FISCHER LICENSE NO. 58026 STATE OF FLORIDA PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY
1	04/01/13	REVISED PER R.A.I. NO. 1	SRF

DRAWING TITLE: PROJECT AREA EXISTING CONDITIONS SITE PLAN

PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 622-4757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO.	DWN.: BTC	QA REVIEW BY: CEH
09199033.23	SDA	
CSW:	CHK.: BTC	APP.: BTC
0	SRF	SRF

CADD FILE: 993323EXSITE

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO. 7 of 37

N

60 30 0 60

SCALE IN FEET

GROUNDWATER CONTROL PIPING SYSTEM DETAIL (TYP.) SEE DETAIL 1/8 14

GROUNDWATER PIPE TRENCH DETAIL (TYP.) SEE DETAIL 4/8 14

8" PERF. SDR 11 HDPE GROUNDWATER COLLECTION PIPE @ 0.5% SLOPE (TYP. OF 9)

TRANSITION AND TIE TO EXISTING ROAD AT 5% SLOPE

REGRADE EXISTING SWALE TO DRAIN EAST

EAST SLOPE TIE-IN TO EXIST. PHASE II SECTION I (TYP.) SEE DETAIL 3/8 15

EAST SLOPE TIE-IN TO EXIST. PHASE II SECTION I AT LCS PIPE TRENCH (TYP.) SEE DETAIL 4/8 15

EXISTING 8" GROUNDWATER COLLECTION PIPE (TYP. OF 9)

EXISTING 8" LEACHATE COLLECTION PIPE (TYP. OF 3)

ANCHOR TRENCH SEE DETAIL 2/8 16

PROPERTY LINE

LIMIT OF PRIMARY GRADING WORK

10' SWALE BOT. (TYP.)

PERIMETER BERM (TYP.)

PERIMETER ROAD AND SWALE SEE DETAIL 1/8 16

PERIMETER SWALE (TYP.)

ANCHOR TRENCH (TYP.)

BOTTOM LINER SYSTEM SEE DETAIL 5/8 14

PHASE II SECTION II

PHASE II SECTION I (ACTIVE)

PHASE I (CLOSED)

"*" DENOTES GAS PROBE OR MONITORING WELL TO BE ABANDONED (TYP.)

EAST SLOPE TIE-IN TO EXIST. SOUTH PHASE I (TYP.) SEE DETAIL 2/8 15

EAST SLOPE TIE-IN TO EXIST. PHASE I (TYP.) SEE DETAIL 1/8 15

EXISTING VENT TRENCH TIE-IN TO MANHOLE DETAIL (MH-5 AND MH-6). SEE DETAIL 2/8 19

EXISTING HORIZONTAL LANDFILL GAS VENT TRENCH SEE DETAIL 3/8 20

EXISTING VENT TRENCH TIE-IN TO MANHOLE SEE DETAIL 1/8 19

STORMWATER FLUME (TYP.) SEE DETAIL 1/8 17

BOTTOM LINER SYSTEM WITH ADDL. LAYER OF 60-MIL LINER SEE DETAIL 6/8 14

LIMITS OF ADDITIONAL LAYER 60-MIL LINER TO ELEV. 82.5

TRANSITION AND TIE TO EXISTING ROAD AT 5% SLOPE

P-18 PT#1 E 725944.26 N 1177595.94 EL 85.05

H.P. 86.3

P-22

P-17

GP-3R

GP-4R

GP-5R

GP-6R

GP-7R

GP-8R

MW-13

MW-14

MW-1

MW-2

MW-3

MW-5

MW-6

MW-7

MW-10R

MW-11

MW-12R

*GP-4

*GP-5

*GP-6

*MW-3

*MW-5

*MW-8

MH-1

MH-3

MH-5

MH-6

MH-7

GWCO-1 GWCO-2 GWCO-3 GWCO-4 GWCO-5 GWCO-6 GWCO-7 GWCO-8 GWCO-9

GP-1 GP-2

RIP RAP

TANK

PIPING

LEGEND

- EXISTING ELEVATIONAL CONTOUR (5 FOOT INTERVAL) APRIL 2012 SURVEY
- EXISTING ELEVATIONAL CONTOUR (1 FOOT INTERVAL) APRIL 2012 SURVEY
- 5.51 × EXISTING SPOT ELEVATION DEC. 2010 SURVEY
- EXISTING PROPERTY LINE/BOUNDARY (CHASTAIN SKILLMAN SURVEY)
- MW-13 NEW GROUNDWATER MONITORING WELL
- MW-7 EXISTING GROUNDWATER MONITORING WELL
- GP-7R NEW GAS MONITORING PROBE
- GP-6 EXISTING GAS MONITORING PROBE
- P-15 EXISTING PIEZOMETER
- MH-5 EXISTING LEACHATE MANHOLE
- EXISTING LANDFILL GAS VENT
- EXISTING LANDFILL HORIZONTAL COLLECTOR RISER AND PIPE
- EXISTING EDGE OF LINER (SEE DRAWING NO. 7 FOR COORDINATE LOCATIONS)
- 10 FINISHED GRADE ELEVATIONAL CONTOUR (5 FOOT INTERVAL)
- FINISHED GRADE ELEVATIONAL CONTOUR (1 FOOT INTERVAL)
- FINISHED GRADE TOE OF SLOPE/TOP OF SLOPE
- 122.0 × FINISHED GRADE SPOT ELEVATION
- ACCESS ROAD COMPACTED LIMEROCK
- ROADWAY CENTERLINE/BASELINE
- SURFACE WATER FLOW DIRECTION
- LEACHATE SHEET FLOW DIRECTION
- 8" EXISTING LEACHATE COLLECTION PIPE AND DIAMETER
- ADDITIONAL LAYER OF 60-MIL LINER TO ELEV. 82.5
- LIMIT OF PRIMARY GRADING WORK
- GWCO-1 GROUNDWATER PIPE CLEAN-OUT
- LCO-1 LEACHATE PIPE CLEAN-OUT
- C.O. EXISITNG GROUNDWATER PIPE CLEAN-OUT
- C.O. EXISITNG LEACHATE PIPE CLEAN-OUT

STATE OF FLORIDA — SHANE R. FINCHER, P.E. — LICENSE NO. 59026

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: TOP OF SUBGRADE BOTTOM CELL GRADING SITE PLAN

PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION DRAWINGS

CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
4041 PARK OAKS BLVD, SUITE 150, TAMPA, FL 33610
813-621-0080 FAX 813-621-0207
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJECT NO. 09199033.23 | DWN. BY: SDA | CHK. BY: SRF | DSN. BY: SRF | O/A RVW. BY: CEH | APP. BY: SRF

CADD FILE: 993323GRADING

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO. 8 of 37

C:\PROJECTS\Hardee\09199033.23\Construction\993323GRADING.dwg Mar 30, 2013 - 8:37am Leroy Hayes, EPSG:Tax of Sarasota By: 2178696

NORTH AND MIDDLE LEACHATE COLLECTION CLEAN-OUT RISER CONNECTION
SEE DETAIL 2 9 24

LEACHATE COLLECTION PIPING SYSTEM EXTENSION DETAIL (TYP.)
SEE DETAIL 2 9 14

PROPERTY LINE

LEACHATE COLLECTION AND DETECTION RISER PIPING CONNECTION
SEE DETAIL 1 9 24

LEACHATE COLLECTION SUMP AND RISER
SEE DETAIL 1 9 18

SOUTH LEACHATE COLLECTION CLEAN-OUT RISER CONNECTION
SEE DETAIL 3 9 24

4" INSIDE DOUBLE WALL LEACHATE FORCEMAIN HDPE SDR 11

STORMWATER BY-PASS/DISCHARGE

LEACHATE COLLECTION AND DETECTION TRENCH
SEE DETAIL 5 9 16

LCS TRENCH ALONG PERIMETER ROAD (TYP.)
SEE DETAIL 7 9 16

LEACHATE COLLECTION TRENCH (TYP.)
SEE DETAIL 6 9 16

8" PERF. PIPE @ 0.50% SLOPE

8" PERF. PIPE @ 1.24% SLOPE

8" PERF. PIPE @ 1.14% SLOPE

12" PERF. PIPE @ 1.0% SLOPE

8" PERF. PIPE @ 1.0% SLOPE

10" PERF. PIPE @ 0.84% SLOPE

PHASE II SECTION II

PHASE II SECTION I (ACTIVE)

PHASE I (CLOSED)

EXISTING 8" GROUNDWATER COLLECTION PIPE (TYP. OF 9)

EXISTING 8" LEACHATE COLLECTION PIPE (TYP. OF 3)

RIP RAP

PIPE RACK

TANK

CULVERT

P-18 PT#1
E 725944.26
N 1177595.94
EL 85.05

LEGEND

- EXISTING ELEVATIONAL CONTOUR (5 FOOT INTERVAL) APRIL 2012 SURVEY
- EXISTING ELEVATIONAL CONTOUR (1 FOOT INTERVAL) APRIL 2012 SURVEY
- EXISTING SPOT ELEVATION DEC. 2010 SURVEY
- EXISTING PROPERTY LINE/BOUNDARY (CHASTAIN SKILLMAN SURVEY)
- NEW GROUNDWATER MONITORING WELL
- EXISTING GROUNDWATER MONITORING WELL
- NEW GAS MONITORING PROBE
- EXISTING GAS MONITORING PROBE
- EXISTING PIEZOMETER
- EXISTING LEACHATE MANHOLE
- EXISTING LANDFILL GAS VENT
- EXISTING LANDFILL HORIZONTAL COLLECTOR RISER AND PIPE
- EXISTING EDGE OF LINER (SEE DRAWING NO. 7 FOR COORDINATE LOCATIONS)
- FINISHED GRADE ELEVATIONAL CONTOUR (5 FOOT INTERVAL)
- FINISHED GRADE ELEVATIONAL CONTOUR (1 FOOT INTERVAL)
- FINISHED GRADE TOE OF SLOPE/TOP OF SLOPE
- FINISHED GRADE SPOT ELEVATION
- ACCESS ROAD COMPACTED LIMEROCK
- ROADWAY CENTERLINE/BASELINE
- SURFACE WATER FLOW DIRECTION
- LEACHATE SHEET FLOW DIRECTION
- EXISTING LEACHATE COLLECTION PIPE AND DIAMETER
- ADDITIONAL LAYER OF 60-MIL LINER TO ELEV. 82.5
- LIMIT OF PRIMARY GRADING WORK
- GROUNDWATER PIPE CLEAN-OUT
- LEACHATE PIPE CLEAN-OUT
- EXISITNG GROUNDWATER PIPE CLEAN-OUT
- EXISITNG LEACHATE PIPE CLEAN-OUT

N

60 30 0 60
SCALE IN FEET

JAIME R. FISCHER LICENSED PROFESSIONAL ENGINEER No. 55026 STATE OF FLORIDA
SHANE R. TIPTON, P.E. LICENSE NO. 55026

REV	DATE	DESCRIPTION	BY
1	04/01/13	REVISED PER R.A.I. NO. 1	SRF

DRAWING TITLE
LEACHATE COLLECTION SYSTEM SITE PLAN

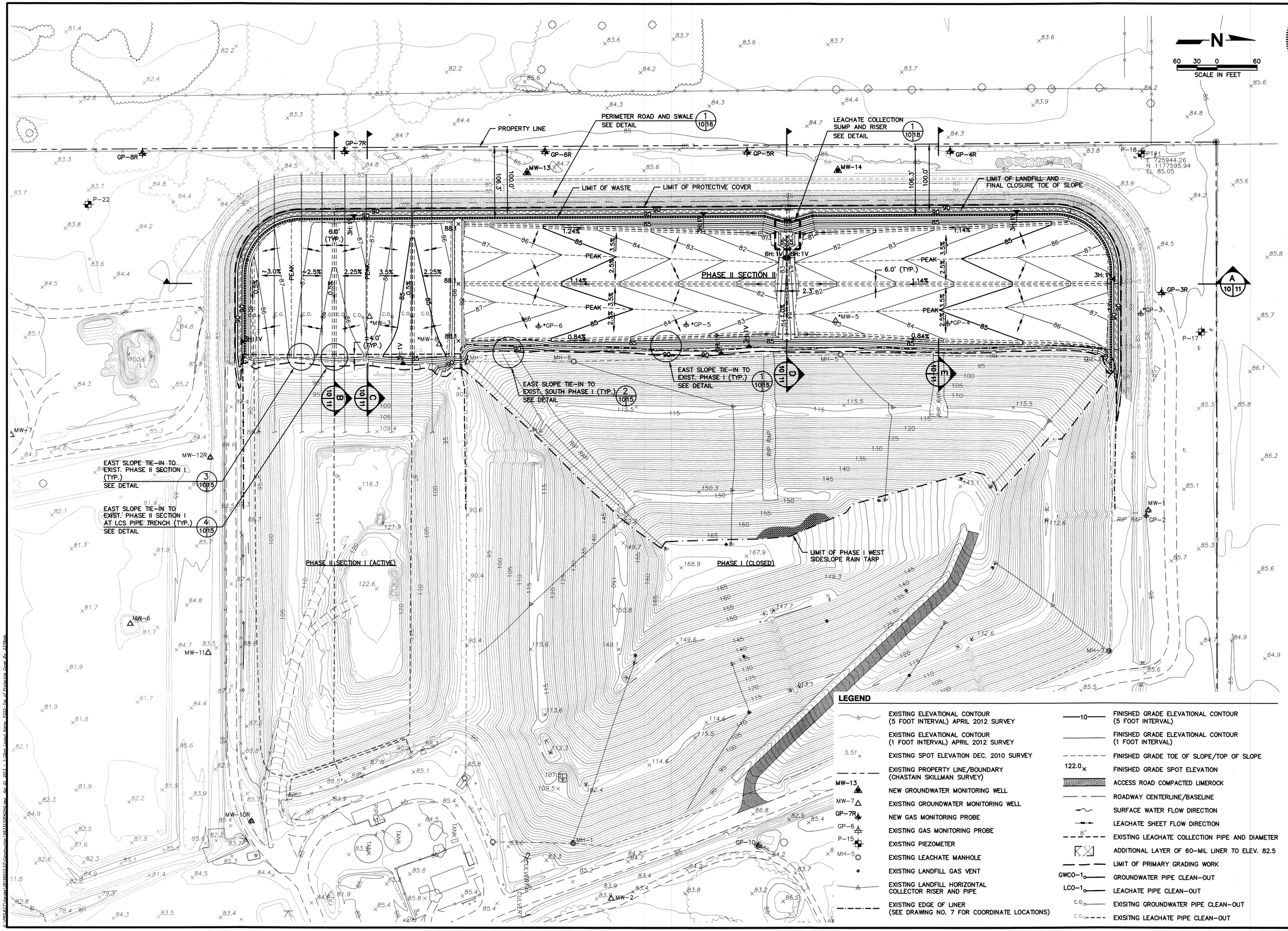
PROJECT TITLE
HARDEE COUNTY LANDFILL
PHASE II SECTION II EXPANSION
CONSTRUCTION DRAWINGS

CLIENT
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-0757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09J1909023.23
DWN. BY: SDA
CHK. BY: SRF
O/A RVW BY: CEH
APP. BY: SRF

CADD FILE: 993323GRADING
DATE: APRIL 2013
SCALE: AS SHOWN
DRAWING NO. 9 of 37



JEANNE R. FISCHER
LICENSED
PROFESSIONAL ENGINEER
No. 59026
STATE OF FLORIDA
SIGNED
SHANE R. FISCHER, P.E.
LICENSE NO. 59026

REV	DATE	DESCRIPTION	BY

DRAWING TITLE
TOP OF PROTECTIVE COVER BOTTOM CELL GRADING SITE PLAN

PROJECT TITLE
HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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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DSN. BY: SRF
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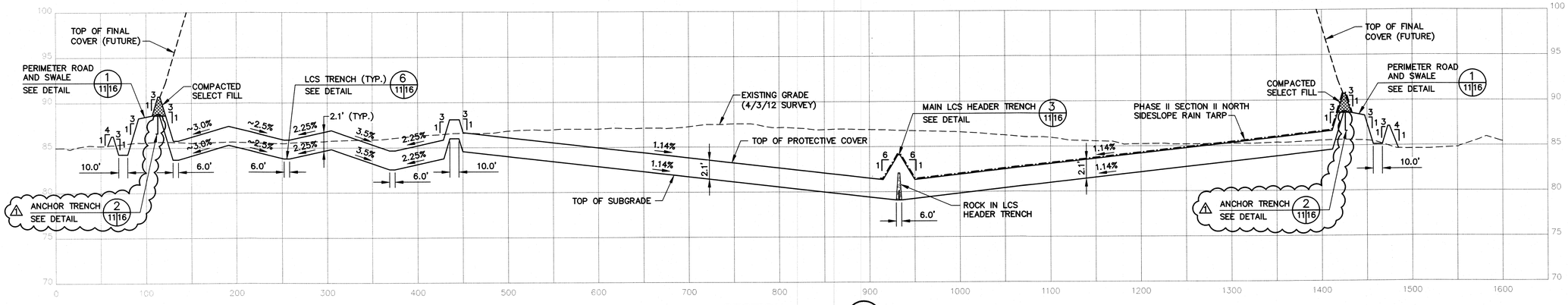
Q/A RVW. BY: CEH
APP. BY: SRF

CADD FILE: 993323GRADING

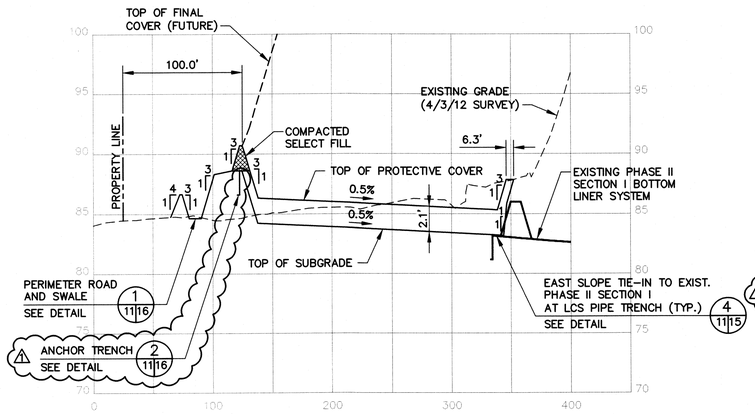
DATE: APRIL 2013

SCALE: AS SHOWN

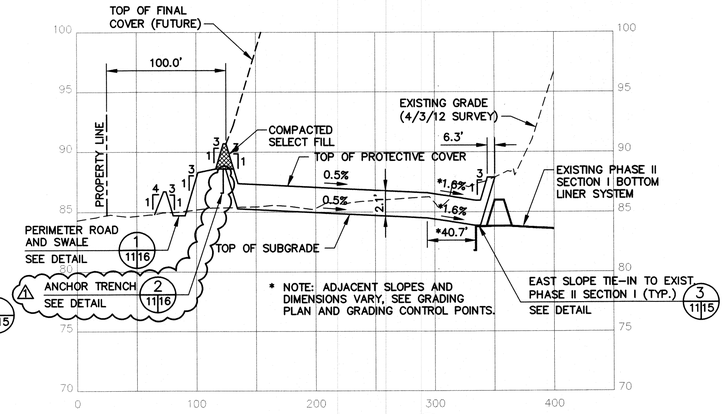
DRAWING NO. **10** of **37**



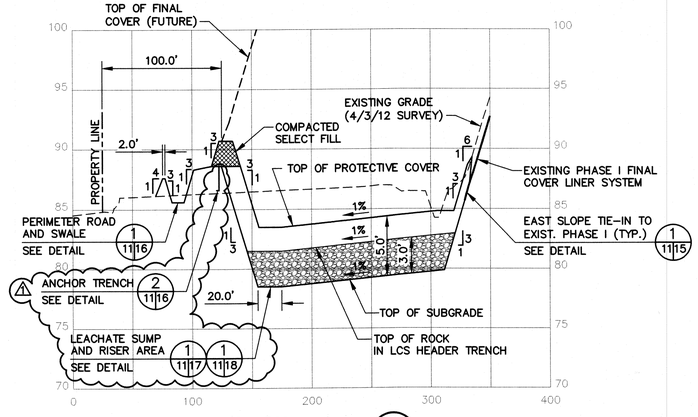
SECTION A 11
SCALE: 1" = 60' HORIZ. 1" = 6' VERT. 8.10



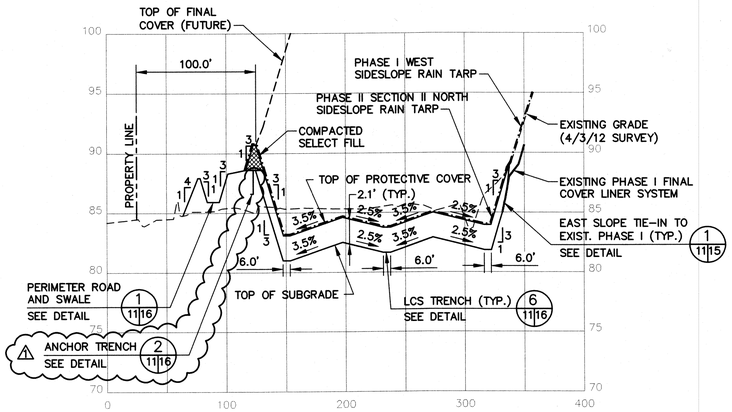
SECTION B 11
SCALE: 1" = 60' HORIZ. 1" = 6' VERT. 8.10



SECTION C 11
SCALE: 1" = 60' HORIZ. 1" = 6' VERT. 8.10



SECTION D 11
SCALE: 1" = 60' HORIZ. 1" = 6' VERT. 8.10



SECTION E 11
SCALE: 1" = 60' HORIZ. 1" = 6' VERT. 8.10

REV	DATE	DESCRIPTION	BY
1	04/01/13	REVISED PER R.A.I. NO. 1	SRF

DRAWING TITLE: **SECTIONS - BOTTOM CELL**

PROJECT TITLE: **HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.23 | DWN. BY: SDA | CHK. BY: SRF | D/A RVW BY: CEH | APP. BY: SRF | DSN. BY: SRF

CADD FILE: 993323SECTIONS1

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO. **11** of **37**

SHANE R. FISCHER LICENSE NO. 58026 STATE OF FLORIDA PROFESSIONAL ENGINEER

G:\DOCS\Projects\09199033.23\Construction\993323SECTIONS1.dwg Apr 01, 2013 - 12:18pm Kristin Horne Section By: 993323

MIDDLE TERRACE INLET AND DOWNCHUTE PIPES (TYP.) SEE DETAIL 1 12|21

PROPERTY LIMIT (TYP.)

LEACHATE COLLECTION SUMP AND RISER PIPE AREA

NOTE: FORMER SOIL STOCKPILE REMOVED TO ACCOMMODATE PHASE II

PT#1
E 725944.26
N 1177595.94
EL 85.05

H.P. 86.3

PHASE II SECTION II

TOP TERRACE INLET AND DOWNCHUTE PIPES (TYP.) SEE DETAIL 2 12|21

PHASE II SECTION I (ACTIVE)

PHASE I (CLOSED)

EXISTING STORMWATER DOWNCHUTE DISCHARGE (TYP.) SEE DETAIL 4 12|23

TYPICAL SOUTH SIDESLOPE BERM WITH FUTURE WASTE FILLING SEE DETAIL 1 12|23

EXISTING SOUTHEAST STORMWATER DISCHARGE SEE DETAIL 3 12|23

RIP RAP

TANK

PIPES

A 12|13

B 12|13

C 12|13

D 12|13

N

0 60 120

SCALE IN FEET

LEGEND

- EXISTING GRADE – 5 FOOT ELEVATION CONTOUR FROM APRIL 2012 TOPOGRAPHIC SURVEY
- EXISTING GRADE – 1 FOOT ELEVATION CONTOUR FROM APRIL 2012 TOPOGRAPHIC SURVEY
- EXISTING PROPERTY LINE/BOUNDARY (CHASTAIN SKILLMAN SURVEY)
- 95 TOP OF FINAL COVER GRADE 5 FOOT ELEVATION CONTOUR
- TOP OF FINAL COVER GRADE 1 FOOT ELEVATION CONTOUR
- 130.7 x TOP OF FINAL COVER GRADE SPOT ELEVATION
- LIMIT OF FINAL COVER AND PHASE II SECTION II EXPANSION (APPROXIMATE)
- STORMWATER DOWNCHUTE PIPE
- STORMWATER LATERAL CHUTE INLET
- STORMWATER OUTLET
- GROUT FILLED FABRIC REVETMENT

© 2013 SCS ENGINEERS

JAMES H. FISCHER LICENSE NUMBER 58026 STATE OF FLORIDA PROFESSIONAL ENGINEER
JAMES H. FISCHER, P.E.
LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY

DRAWING TITLE
FINAL CLOSURE SITE PLAN

PROJECT TITLE
HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION DRAWINGS

CLIENT
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
4041 PARK OAKS BLVD, SUITE 190, TAMPA, FL 33610
813 621-0080 FAX 813 623-5757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

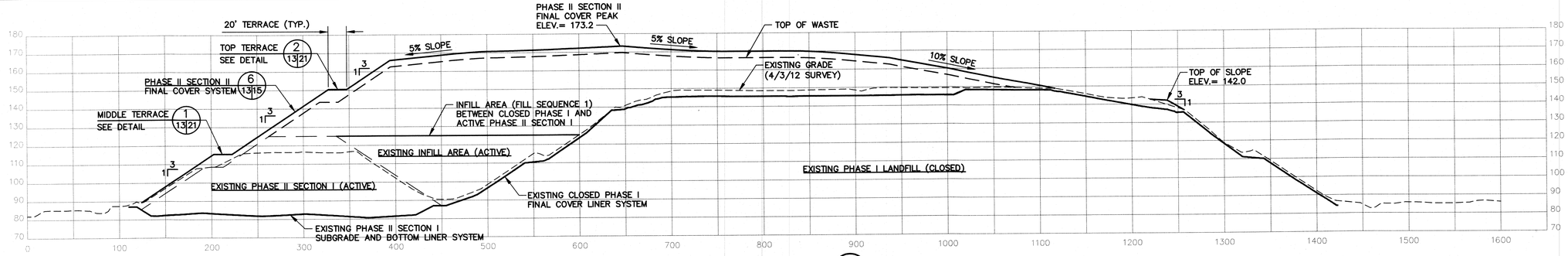
PROJ. NO. 09199033.23 | DSN. BY: SRF | DWN. BY: SDA | CHK. BY: SRF | QA/QC BY: CEH | APP. BY: SRF

CADD FILE: 993323FINALCVR

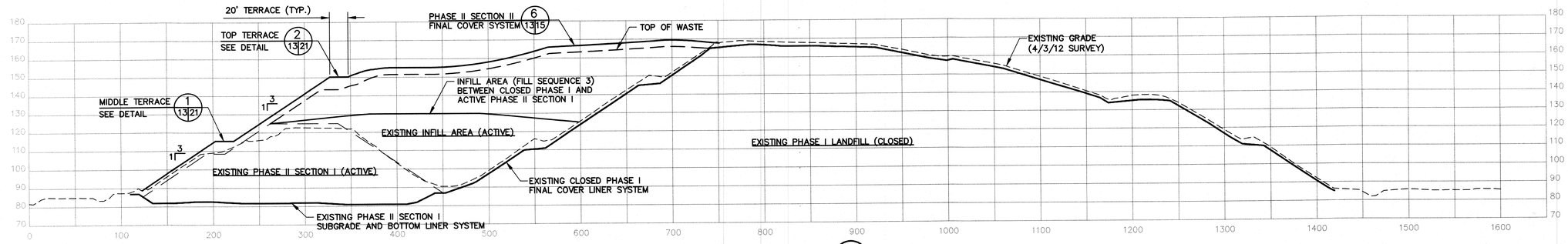
DATE: APRIL 2013

SCALE: AS SHOWN

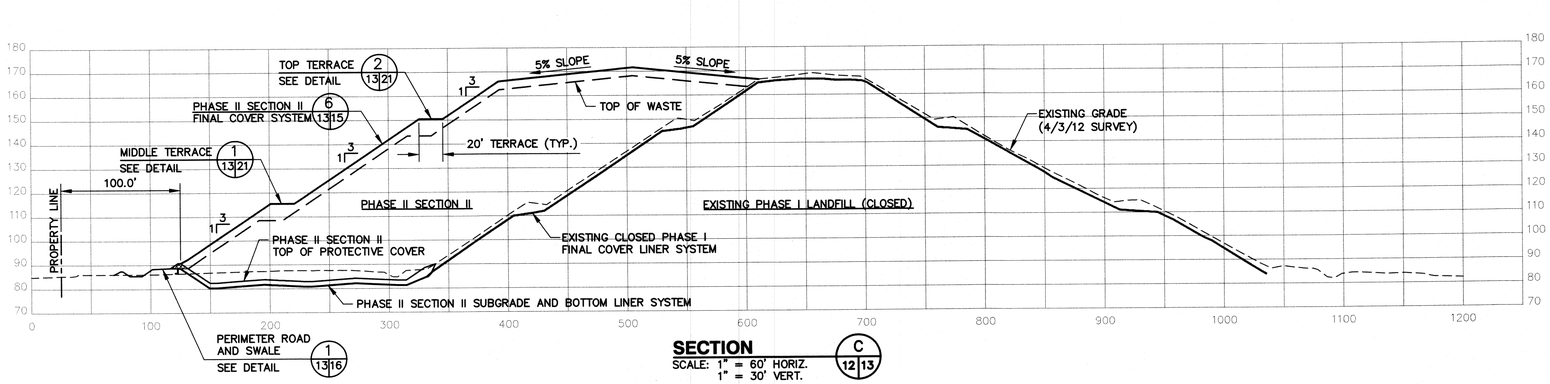
DRAWING NO. **12** of **37**



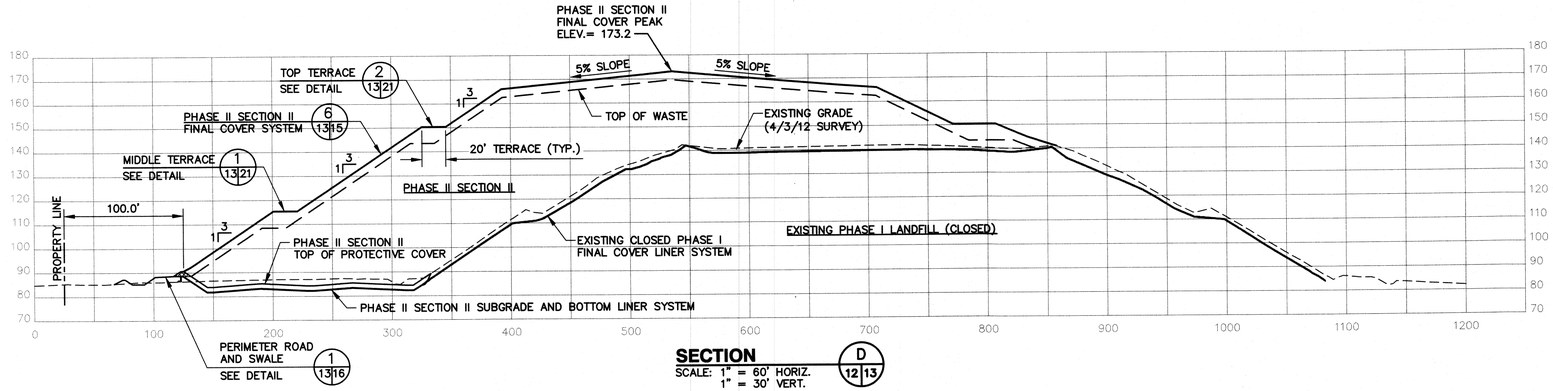
SECTION A 12|13
SCALE: 1" = 60' HORIZ.
1" = 30' VERT.



SECTION B 12|13
SCALE: 1" = 60' HORIZ.
1" = 30' VERT.



SECTION C 12|13
SCALE: 1" = 60' HORIZ.
1" = 30' VERT.



SECTION D 12|13
SCALE: 1" = 60' HORIZ.
1" = 30' VERT.

NOTE:

1. SLOPES SHALL NOT EXCEED 3H:1V AT ANY TIME, AFTER APPLICATION OF COVER SOILS. ALL FINAL SLOPES SHALL CONFORM TO THE DESIGN DIMENSIONS, SLOPES, AND ELEVATIONS.

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS
4041 PARK OAKS BLVD, SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-7757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.23 | DWN. BY: SDA | CHK. BY: SRF | QA/QC BY: CEH | APP. BY: SRF | DSN. BY: SRF

CADD FILE: 993323SECTIONS1

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO. 13 of 37

CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

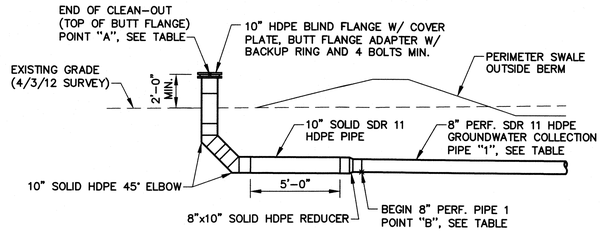
PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION DRAWINGS

DRAWING TITLE: SECTIONS - FINAL CLOSURE

REV	DATE	DESCRIPTION	BY

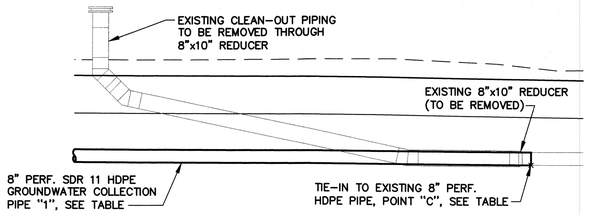
SIGNED, SEALED & DATED BY: STEVEN R. FOSTER, P.E. LICENSE NO. 56026

G:\Job 433\Hardee\09199033.23\Construction\993323SECTIONS1.dgn 30. April 2013 - 8:30am appod Home Sections - Final Closure By: Kathleen

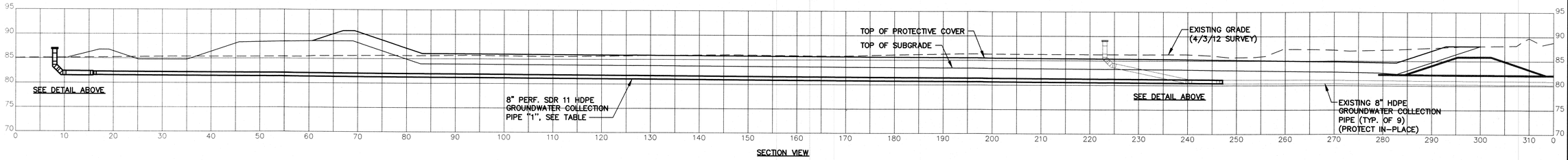


GROUNDWATER COLLECTION PIPE CLEAN-OUT DETAIL

GROUNDWATER COLLECTION PIPE TABLE										
END OF CLEAN-OUT (POINT "A")				BEGIN 8" PERF. PIPE (POINT "B")			8" PERF. PIPE (PIPE "1")	END 8" PERF. PIPE AND TIE-IN TO EXISITNG PIPE (POINT "C")		
CLEAN-OUT NO.	NORTHING	EASTING	ELEV.	NORTHING	EASTING	ELEV.	LINEAR FEET/SLOPE	NORTHING	EASTING	ELEV.
GWCO-1	1176273.17	725989.76	87.0	1176273.17	725998.17	81.65	224.0' @ 0.5%	1176273.17	726222.19	80.53
GWCO-2	1176296.68	725981.25	87.0	1176296.68	725989.78	81.53	234.3' @ 0.5%	1176296.68	726224.04	80.36
GWCO-3	1176337.32	725978.92	87.0	1176337.32	725987.52	81.46	234.8' @ 0.5%	1176337.32	726222.28	80.28
GWCO-4	1176368.12	725978.92	87.0	1176368.12	725987.53	81.45	233.6' @ 0.5%	1176368.12	726221.05	80.28
GWCO-5	1176402.41	725978.92	87.0	1176402.41	725987.50	81.48	230.2' @ 0.5%	1176402.41	726217.62	80.32
GWCO-6	1176434.31	725978.92	87.0	1176434.31	725987.48	81.49	233.2' @ 0.5%	1176434.31	726220.75	80.32
GWCO-7	1176472.76	725978.92	87.0	1176472.76	725987.41	81.57	230.7' @ 0.5%	1176472.76	726218.06	80.41
GWCO-8	1176502.37	725978.92	87.5	1176502.37	725987.95	81.02	228.8' @ 0.5%	1176502.37	726216.73	79.87
GWCO-9	1176532.36	725978.92	88.0	1176532.36	725988.04	80.94	233.6' @ 0.5%	1176532.36	726221.64	79.77



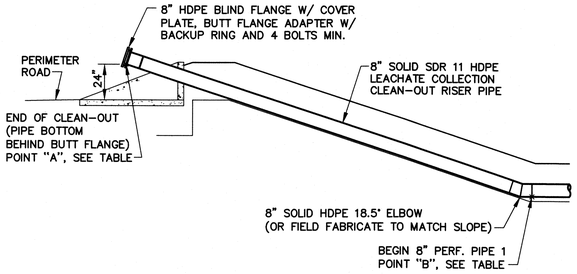
GROUNDWATER COLLECTION PIPE TIE-IN DETAIL



SECTION VIEW

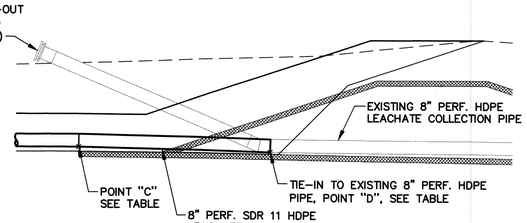
GROUNDWATER CONTROL PIPING SYSTEM DETAIL (TYP.) 1/8|14

SCALE: 1" = 10'

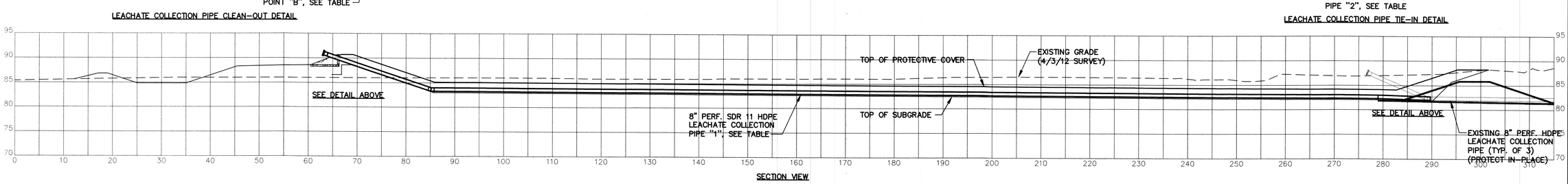


LEACHATE COLLECTION PIPE CLEAN-OUT DETAIL

LEACHATE COLLECTION PIPE TABLE															
END OF CLEAN-OUT (POINT "A")				BEGIN 8" PERF. PIPE 1 (POINT "B")			8" PERF. PIPE 1 (PIPE "1")	END 8" PERF. PIPE PIPE 1 AND BEGIN PIPE 2 (POINT "C")			8" PERF. PIPE 2 (PIPE "2")	END 8" PERF. PIPE 2 AND TIE-IN TO EXISITNG PIPE (POINT "D")		
CLEAN-OUT NO.	NORTHING	EASTING	ELEV.	NORTHING	EASTING	ELEV.	LINEAR FEET/SLOPE	NORTHING	EASTING	ELEV.	LINEAR FEET/SLOPE	NORTHING	EASTING	ELEV.
LCO-1	1176244.26	726105.81	90.60	1176263.48	726112.55	84.48	108.6' @ 0.5%	1176265.12	726221.12	83.94	41.2' @ 0.5%	1176266.37	726262.31	83.73
LCO-2	1176386.49	726034.78	90.60	1176386.62	726053.78	84.48	196.4' @ 0.5%	1176386.62	726250.16	83.50	8.9' @ 1.0%	1176386.62	726259.07	83.41
LCO-3	1176503.31	726033.98	90.60	1176503.45	726056.68	83.25	193.2' @ 0.5%	1176503.45	726249.88	82.28	10.7' @ 2.9%	1176503.45	726260.59	81.97



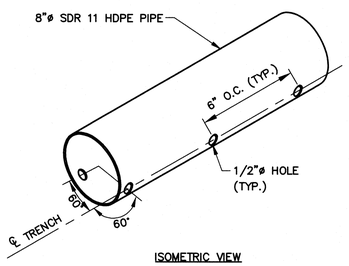
LEACHATE COLLECTION PIPE TIE-IN DETAIL



SECTION VIEW

LEACHATE COLLECTION PIPING SYSTEM EXTENSION DETAIL (TYP.) 2/9|14

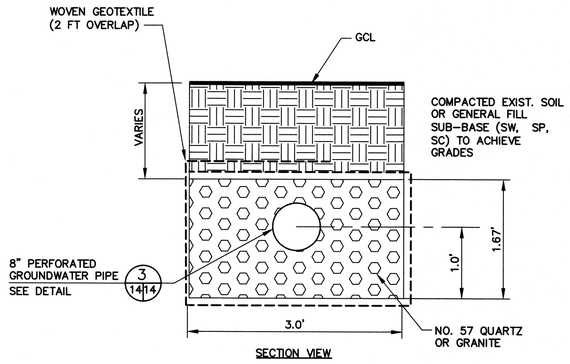
SCALE: 1" = 10'



ISOMETRIC VIEW

8" PERFORATED GROUNDWATER PIPE DETAIL 3/14|14

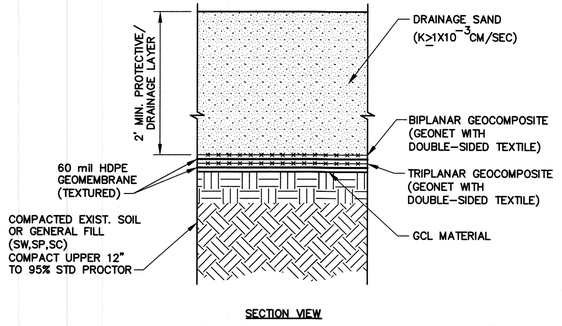
NOT TO SCALE



SECTION VIEW

GROUNDWATER PIPE TRENCH DETAIL 4/8|14

SCALE: 1" = 4'



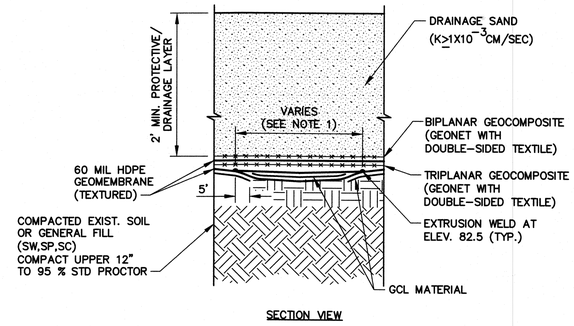
SECTION VIEW

BOTTOM LINER SYSTEM DETAIL 5/14

NOT TO SCALE

8,16,18,23

NOTE:
1. SEE DRAWING NO. 8 FOR HORIZONTAL LIMITS OF ADDITIONAL LAYER OF 60-MIL LINER.



SECTION VIEW

BOTTOM LINER SYSTEM WITH ADDL. LAYER OF 60-MIL LINER DETAIL 6/14

NOT TO SCALE

8,16,17,18

JEANNE R. FISCHER LICENSE NO. 67504 STATE OF FLORIDA PROFESSIONAL ENGINEER
SHAWN R. MAHONEY, P.E. LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: PIPING DETAILS - BOTTOM CELL

PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO.	DWN. BY	CHK. BY	O/A RVW. BY	APP. BY
09199033.23	SDA	SRF	CEH	SRF
09199033.23		SRF		

CADD FILE: 993323SECTIONS1

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO. 14 of 37

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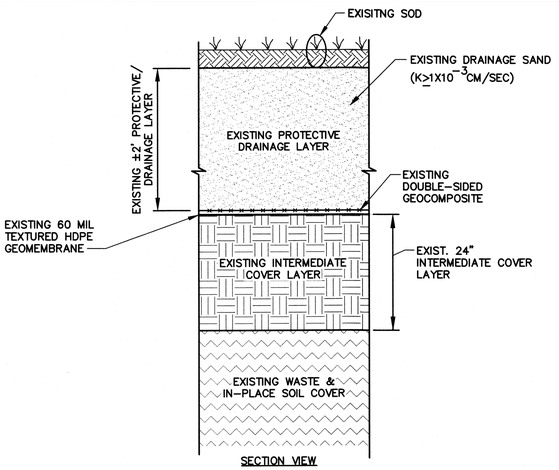
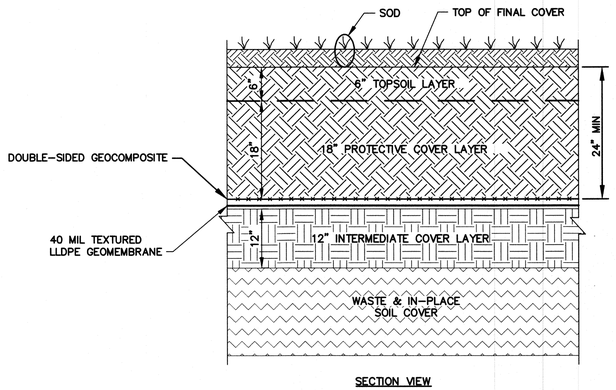


EXISTING PHASE I WEST SIDESLOPE FINAL COVER AND LINER SYSTEM DETAIL (5 / 17 15)

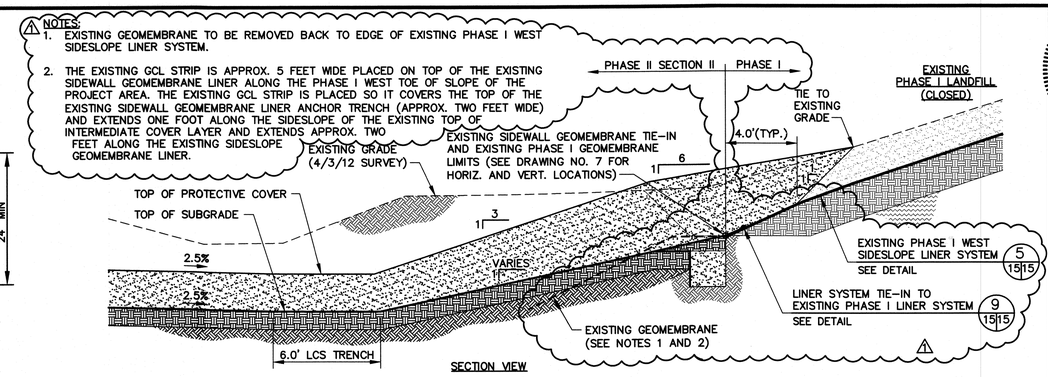
NOT TO SCALE



PHASE II SECTION II FINAL COVER SYSTEM DETAIL (6 / 15)

NOT TO SCALE

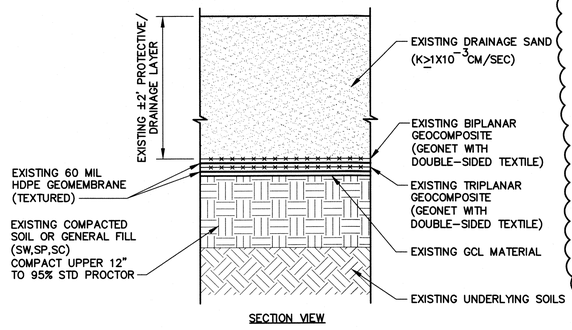
13.23



EAST SLOPE TIE-IN TO EXIST. PHASE I (TYP.) (1 / 15)

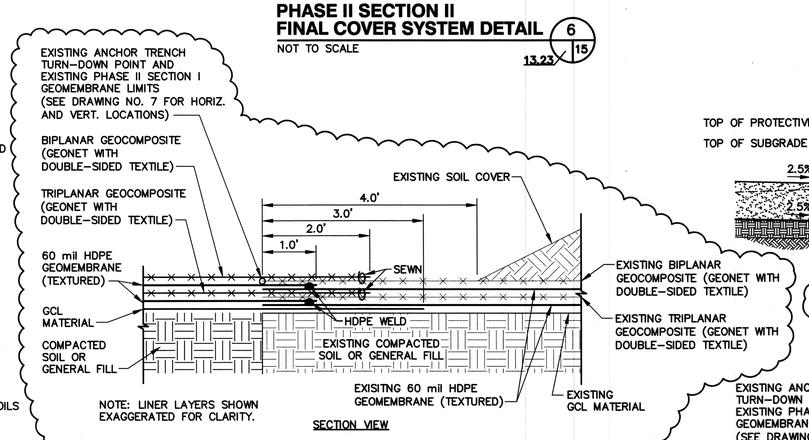
SCALE: 1" = 4'

8.10



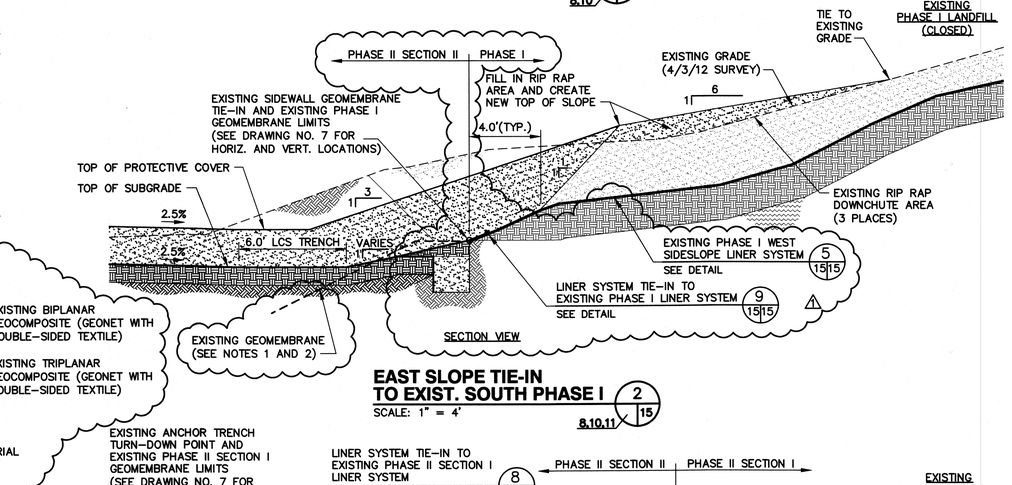
EXISTING PHASE II SECTION I BOTTOM LINER SYSTEM DETAIL (7 / 15 15)

NOT TO SCALE



LINER SYSTEM TIE-IN TO EXISITNG PHASE II SECTION I LINER SYSTEM DETAIL (8 / 15 15)

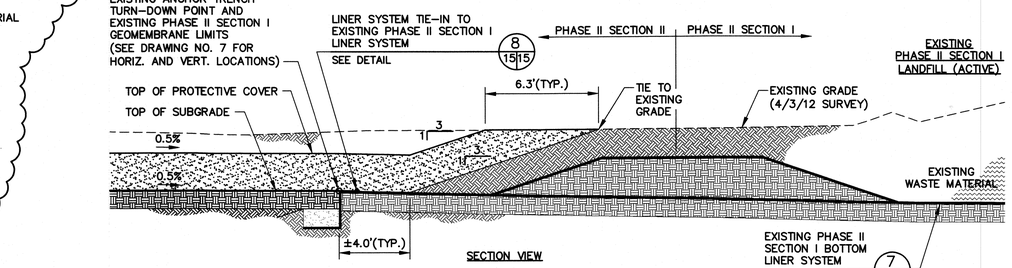
NOT TO SCALE



EAST SLOPE TIE-IN TO EXIST. SOUTH PHASE I (2 / 15)

SCALE: 1" = 4'

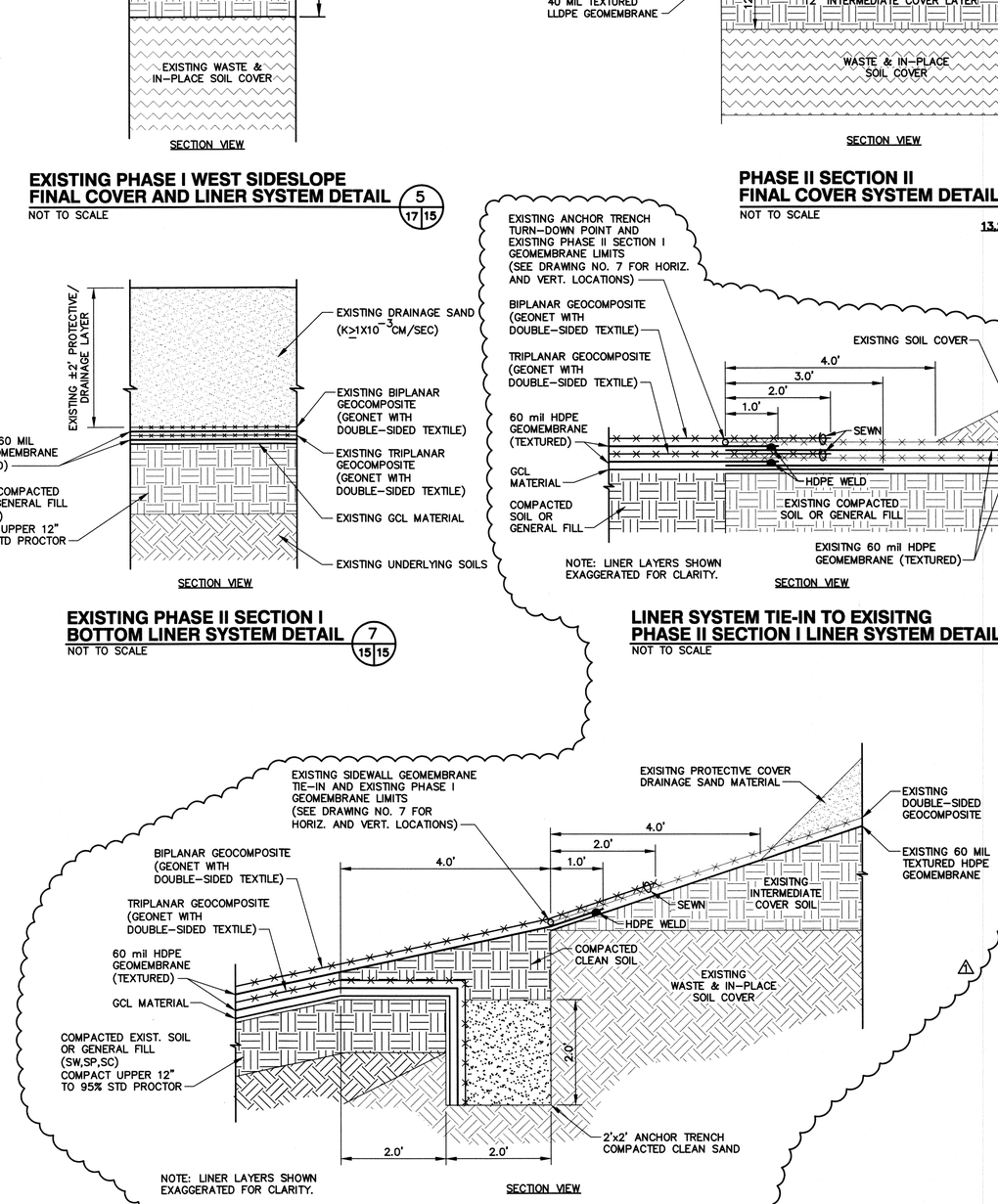
8.10.11



EAST SLOPE TIE-IN TO EXIST. PHASE II SECTION I (TYP.) (3 / 15)

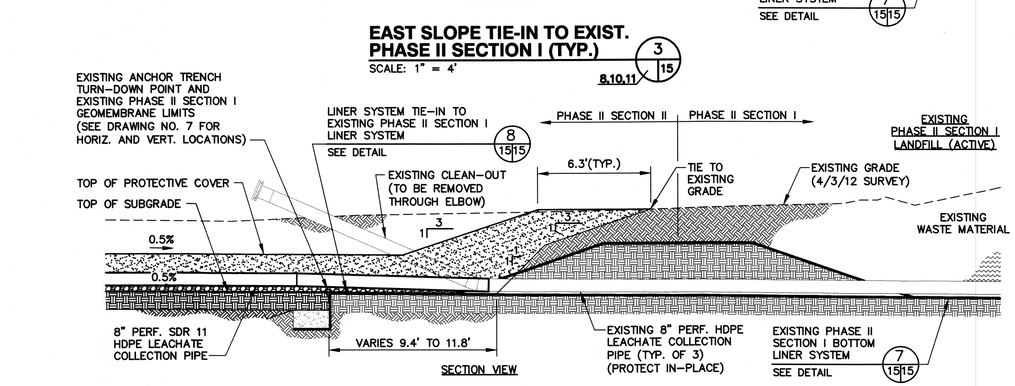
SCALE: 1" = 4'

8.10.11



LINER SYSTEM TIE-IN TO EXISTING PHASE I LINER SYSTEM DETAIL (9 / 15 15)

NOT TO SCALE



EAST SLOPE TIE-IN TO EXIST. PHASE II SECTION I AT LCS PIPE TRENCH (TYP.) (4 / 15)

SCALE: 1" = 4'

8.10.11

REV	DATE	DESCRIPTION	BY
1	04/01/13	REVISED PER R.A.I. NO. 1	SRF

JAMES R. FISCHER — LICENSE NO. 58026 — STATE OF FLORIDA — PROFESSIONAL ENGINEER — SHEET NO. 15

DRAWING TITLE: TIE-IN DETAILS - BOTTOM CELL

PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.23 | DWN. BY: SDA | CHK. BY: SRF | QA/QC BY: CEH | APP. BY: SRF

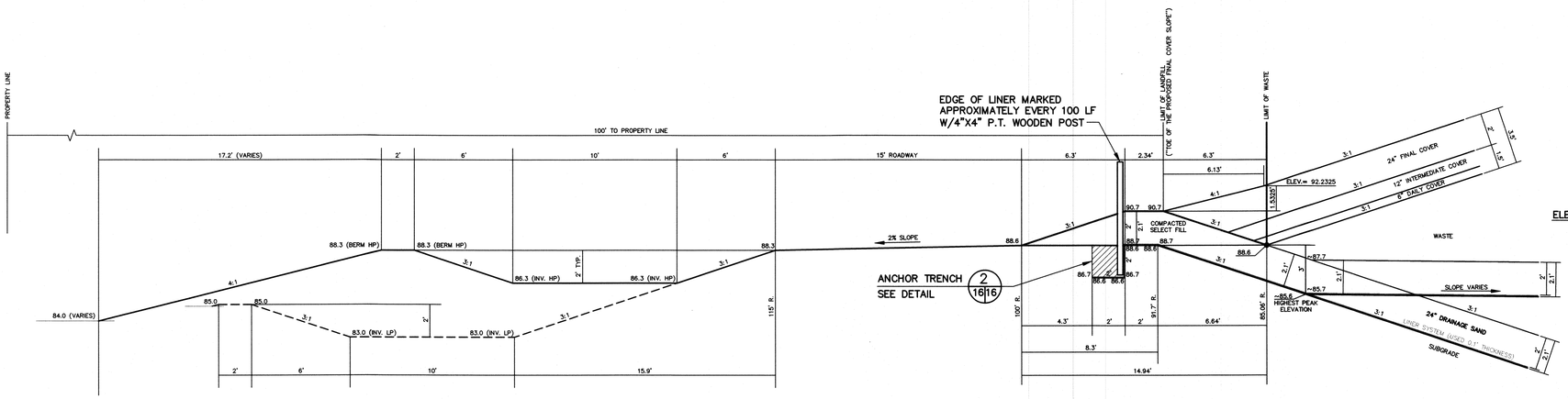
CADD FILE: 993323SECTIONS1

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO. 15 of 37

G:\SCS Projects\09199033.23 Construction\993323SECTIONS.dgn Mon, 01, 2013 - 8:37am, Kevin Moore Tim w. Plotted By: SRF

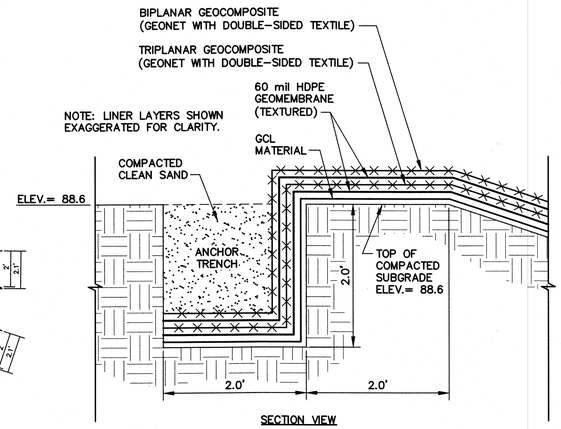


SECTION VIEW

PERIMETER ROAD AND SWALE DETAIL 1|16

SCALE: 1" = 4'

8,10,11,13



SECTION VIEW

ANCHOR TRENCH DETAIL 2|16

SCALE: 1" = 1'-0"

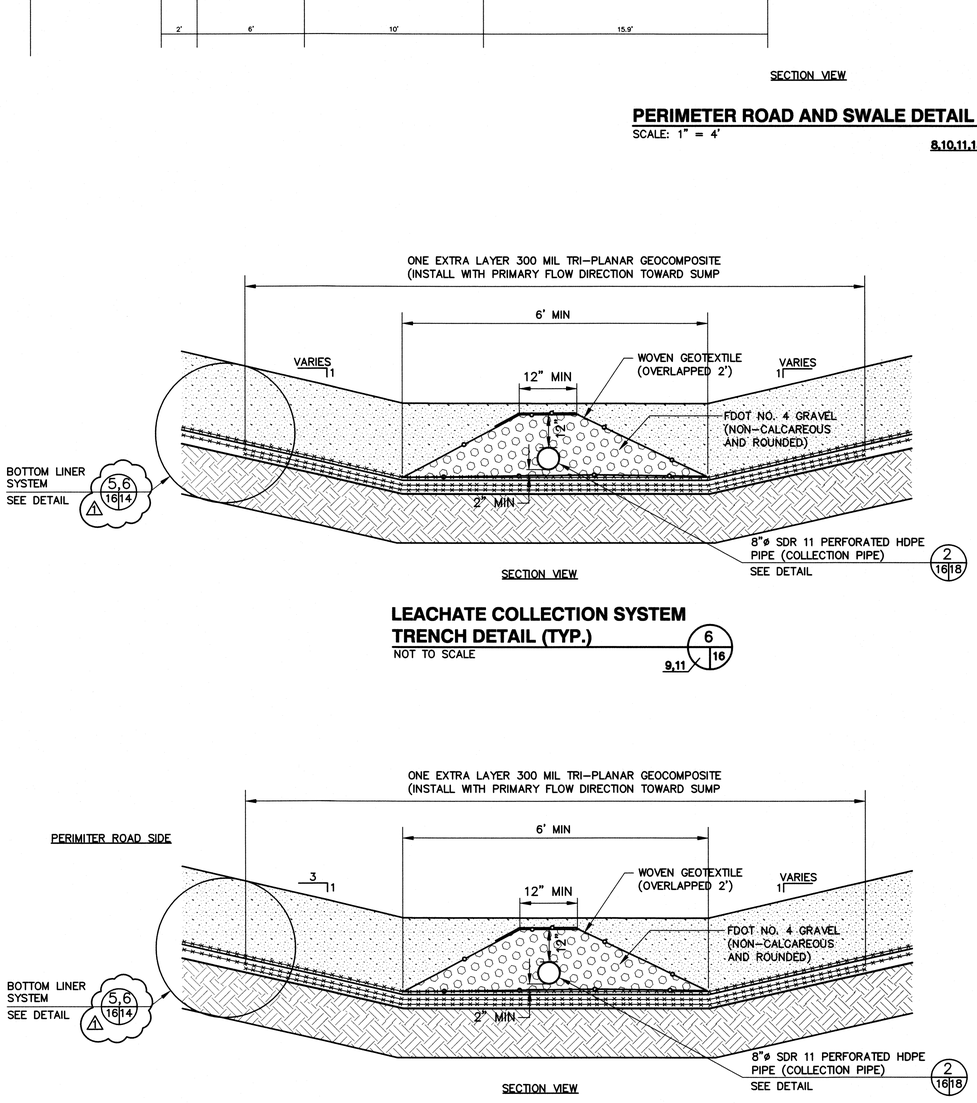
8,11,16

SECTION VIEW

LEACHATE COLLECTION SYSTEM TRENCH DETAIL (TYP.) 6|16

NOT TO SCALE

9,11

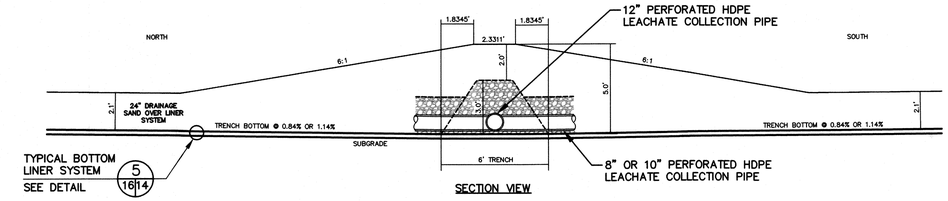


SECTION VIEW

LEACHATE COLLECTION SYSTEM TRENCH ALONG PERIMETER ROAD DETAIL (TYP.) 7|16

NOT TO SCALE

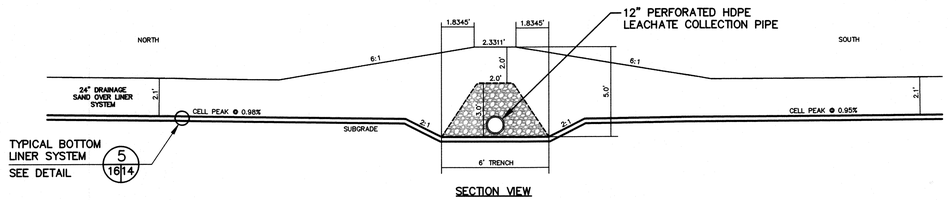
9,11



SECTION VIEW

MAIN LCS HEADER TRENCH AT TRENCH INTERSECTION DETAIL 3|11|16

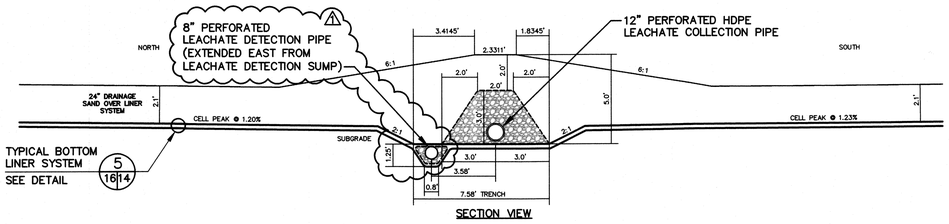
SCALE: 1" = 4'



SECTION VIEW

MAIN LCS HEADER TRENCH AT CELL PEAK DETAIL 4|9|16

SCALE: 1" = 4'



SECTION VIEW

MAIN LCS AND LDS HEADER TRENCH AT CELL PEAK DETAIL 5|9|16

SCALE: 1" = 4'

REV	DATE	DESCRIPTION	BY
1	04/01/13	REVISED PER R.A.I. NO. 1	SRF

DRAWING TITLE: PERIMETER ROAD AND TRENCH DETAILS BOTTOM CELL

PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09I390.33.23 | DWN. BY: SDA | Q/A RVW BY: CEH | CHK. BY: SRF | APP. BY: SRF

CADD FILE: 993323SECTIONS1

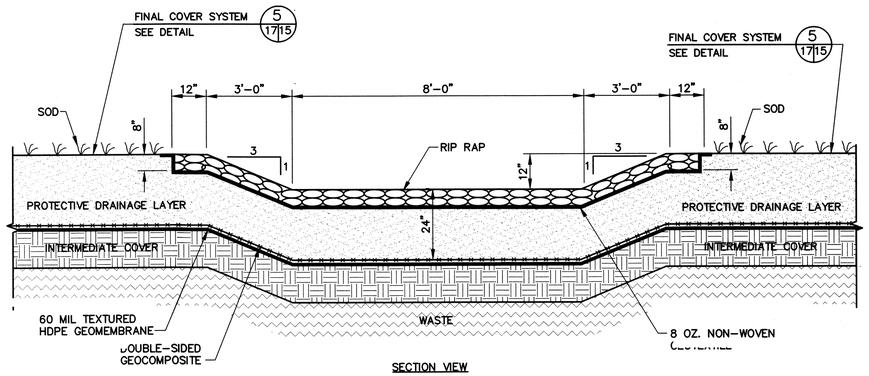
DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO. 16 of 37

JAIME R. FISCHER LICENSE NO. 58026 STATE OF FLORIDA PROFESSIONAL ENGINEER
SHANE R. FISCHER, P.E. LICENSE NO. 58026

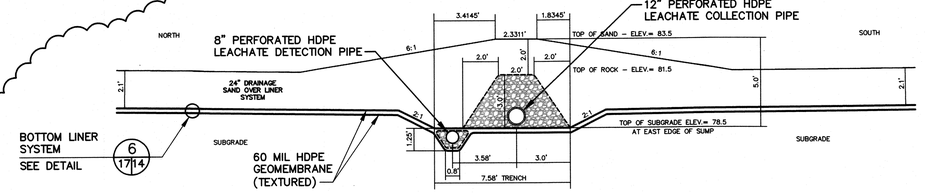
C:\SCS ACTIVE Projects\09I390\33\#11\Construction\09I390SCS1000.dgn Apr 01, 2013 - 12:24pm Hannah Nunn Perim Road & Trench Details Rev 04302013



SECTION VIEW

EXISTING PHASE I TEMPORARY STORMWATER FLUME DETAIL 1

SCALE: 1" = 2'-0"

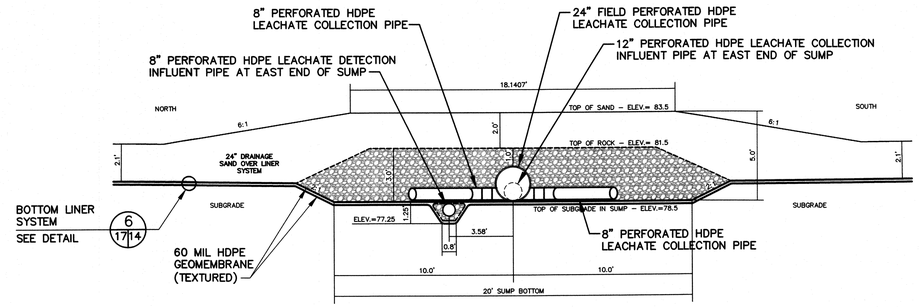


SUMP MOUND AND COLLECTION TRENCH AT EAST SUMP ENTRANCE

SECTION A

SCALE: 1" = 4'

18|17

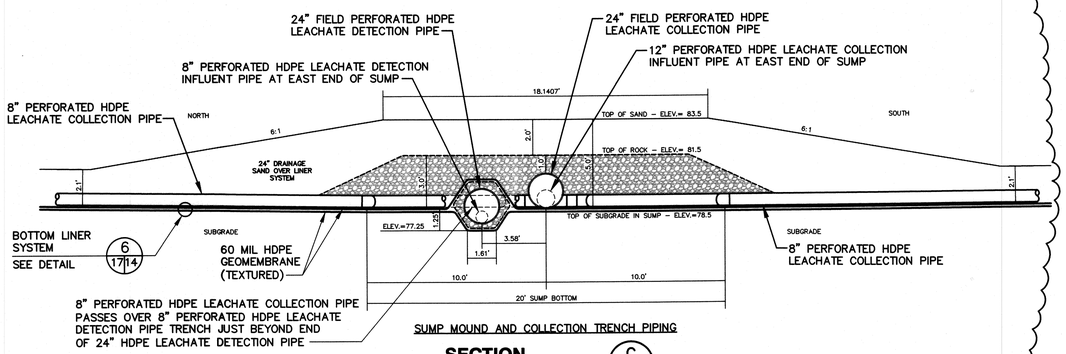


SUMP MOUND AND COLLECTION TRENCH PIPING

SECTION B

SCALE: 1" = 4'

18|17

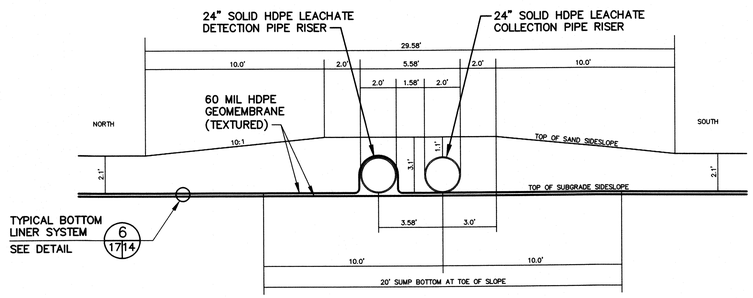


SUMP MOUND AND COLLECTION TRENCH PIPING

SECTION C

SCALE: 1" = 4'

18|17



SIDESLOPE RISER MOUND AND PIPING

SECTION D

SCALE: 1" = 4'

18|17

SHANE R. FISCHER
LICENSE NO. 58026
STATE OF FLORIDA
PROFESSIONAL ENGINEER
SHANE R. FISCHER, P.E.
LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
1	04/01/13	REVISED PER R.A.I. NO. 1	SRF

DRAWING TITLE
SUMP AND SIDESLOPE RISER DETAILS

PROJECT TITLE
HARDEE COUNTY LANDFILL
PHASE II SECTION II EXPANSION
CONSTRUCTION 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
813 621-0080 FAX 813 623-5757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.23
DSN. BY: SRF
DWN. BY: SDA
CHK. BY: SRF
O/A RVW BY: CEH
APP. BY: SRF

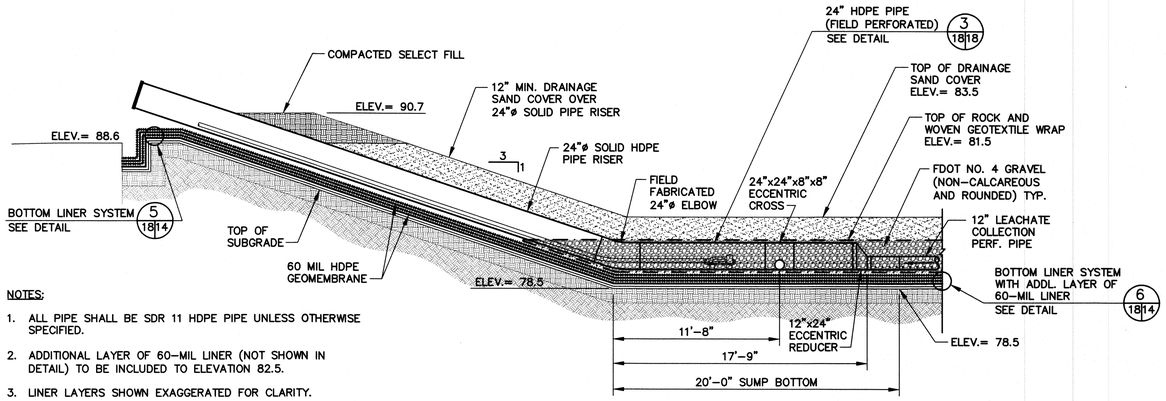
CADD FILE: 993323SECTIONS1

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO. **17** of **37**

C:\Documents and Settings\srf\Desktop\Projects\09199033.23 Hardee County Landfill Phase II Section II Expansion\Drawings\993323SECTIONS1.dgn Apr 01, 2013 - 12:08pm srf Hardee County Landfill Phase II Section II Expansion Sump & Sideslope Riser Details By: srf

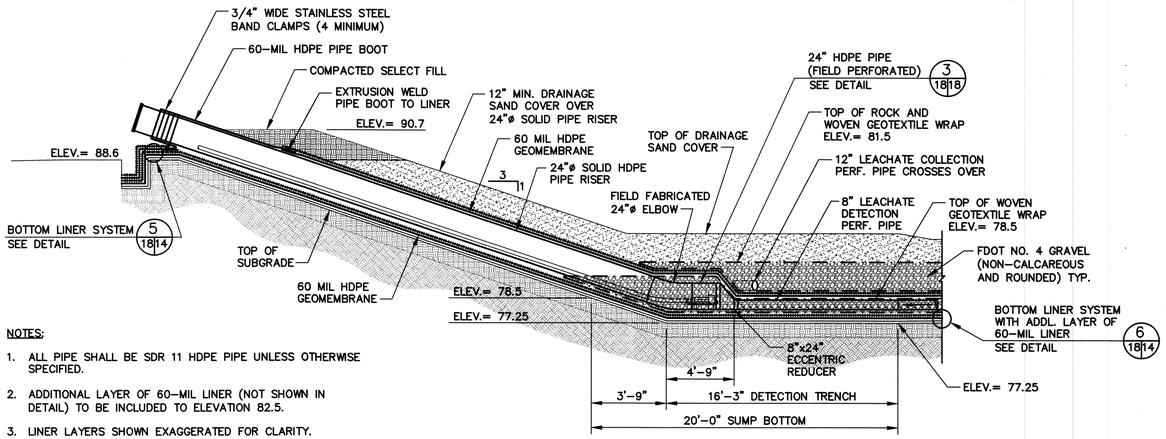


NOTES:

1. ALL PIPE SHALL BE SDR 11 HDPE PIPE UNLESS OTHERWISE SPECIFIED.
2. ADDITIONAL LAYER OF 60-MIL LINER (NOT SHOWN IN DETAIL) TO BE INCLUDED TO ELEVATION 82.5.
3. LINER LAYERS SHOWN EXAGGERATED FOR CLARITY.

LEACHATE COLLECTION PUMPING SECTION A 18|18

NOT TO SCALE

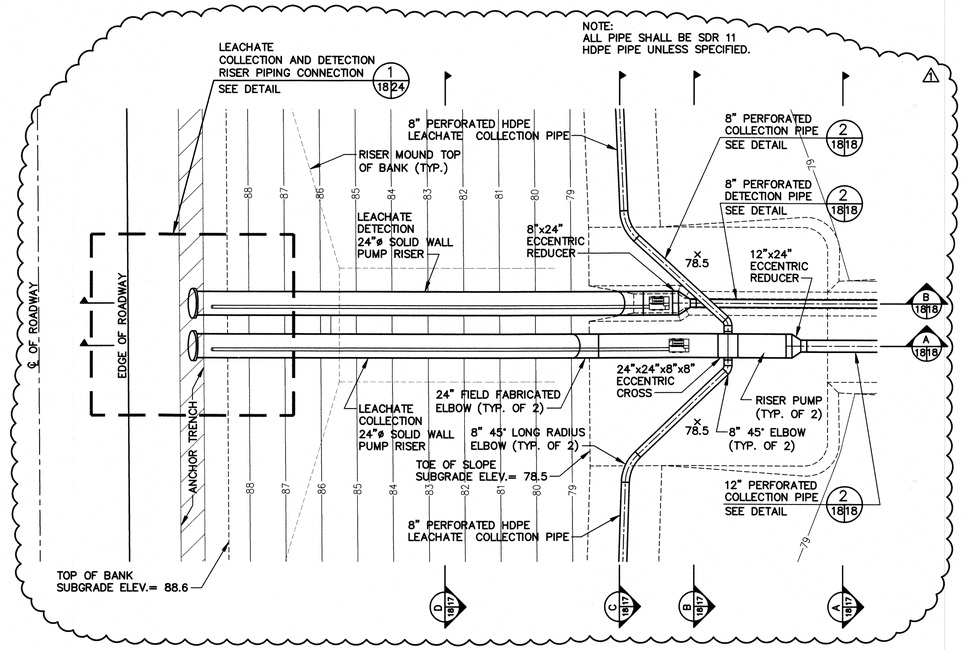


NOTES:

1. ALL PIPE SHALL BE SDR 11 HDPE PIPE UNLESS OTHERWISE SPECIFIED.
2. ADDITIONAL LAYER OF 60-MIL LINER (NOT SHOWN IN DETAIL) TO BE INCLUDED TO ELEVATION 82.5.
3. LINER LAYERS SHOWN EXAGGERATED FOR CLARITY.

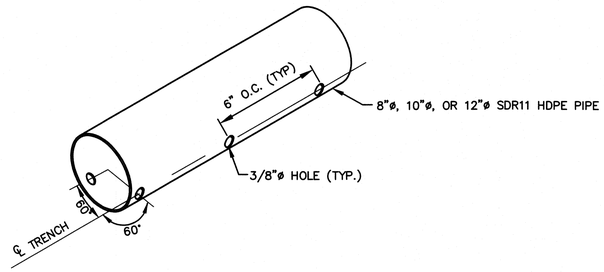
LEACHATE DETECTION PUMPING SECTION B 18|18

NOT TO SCALE



LEACHATE SUMP AND RISER DETAIL 1 18

SCALE: 1" = 6'-0" 9,10

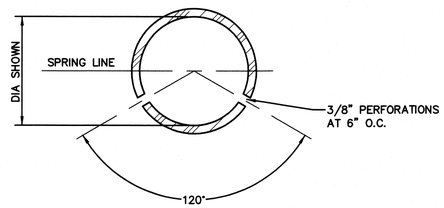


NOTES:

1. CONTRACTOR SHALL PLACE PERFORATED PIPE AS SHOWN (HOLES TOWARDS BOTTOM OF TRENCH).
2. PIPE SHALL HAVE SIX PERFORATIONS FOR EVERY ONE FOOT OF PIPE.

COLLECTION/DETECTION PIPE PERFORATION DETAIL 2 16,18|18

NOT TO SCALE



FIELD PERF. PIPE DETAIL 3 18|18

NOT TO SCALE

REV	DATE	DESCRIPTION	BY
1	04/01/13	REVISED PER R.A.I. NO. 1	SRF

DRAWING TITLE: DETAILS - 1

PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.23 | DWN. BY: SDA | Q/A RVW BY: CEH | CHK. BY: SRF | APP. BY: SRF | DSN. BY: SRF

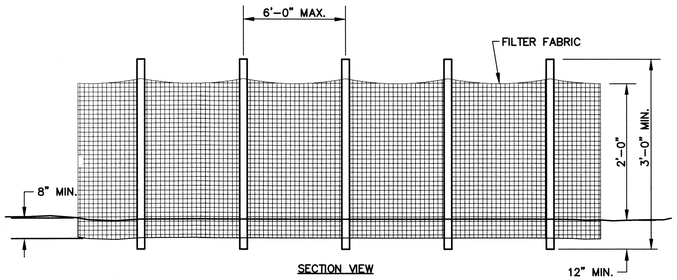
CADD FILE: 993323SUMPDETLS1

DATE: APRIL 2013

SCALE: AS SHOWN

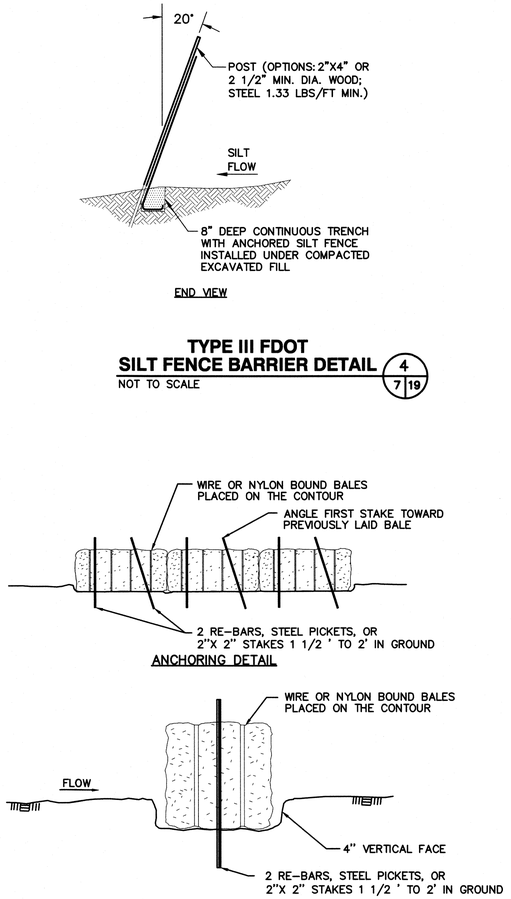
DRAWING NO. 18 of 37

SHANE R. FISCHER LICENSE NO. 58026 STATE OF FLORIDA PROFESSIONAL ENGINEER
SHANE R. FISCHER, P.E. LICENSE NO. 58026



TYPE III FDOT SILT FENCE BARRIER DETAIL 4 (7|19)

NOT TO SCALE



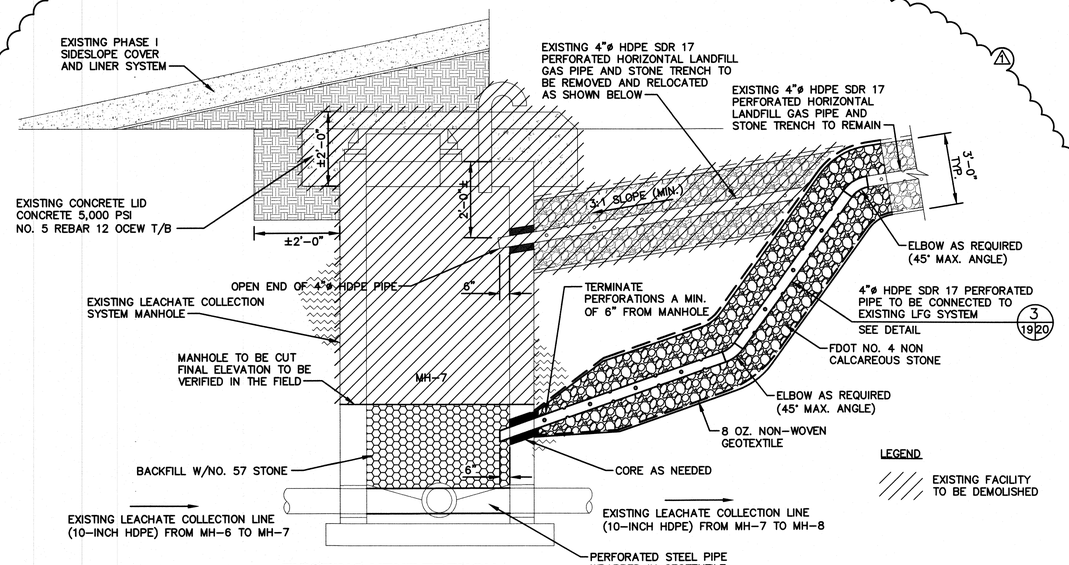
HAYBALE EMBEDDING DETAIL (TEMPORARY)

NOTES:

1. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF FOUR INCHES.
2. BALES SHALL BE SECURELY ANCHORED IN PLACE BY 3/8 INCH REBAR STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
3. INSPECTION SHALL BE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.
4. WHEN SILT REACHES A DEPTH OF 6 INCHES, IT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED SITE AS TO NOT CREATE A SILTATION PROBLEM.
5. AFTER THE DEVELOPMENT SITE IS COMPLETELY STABILIZED, THE BALE AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED SPOIL DISPOSAL SITE.

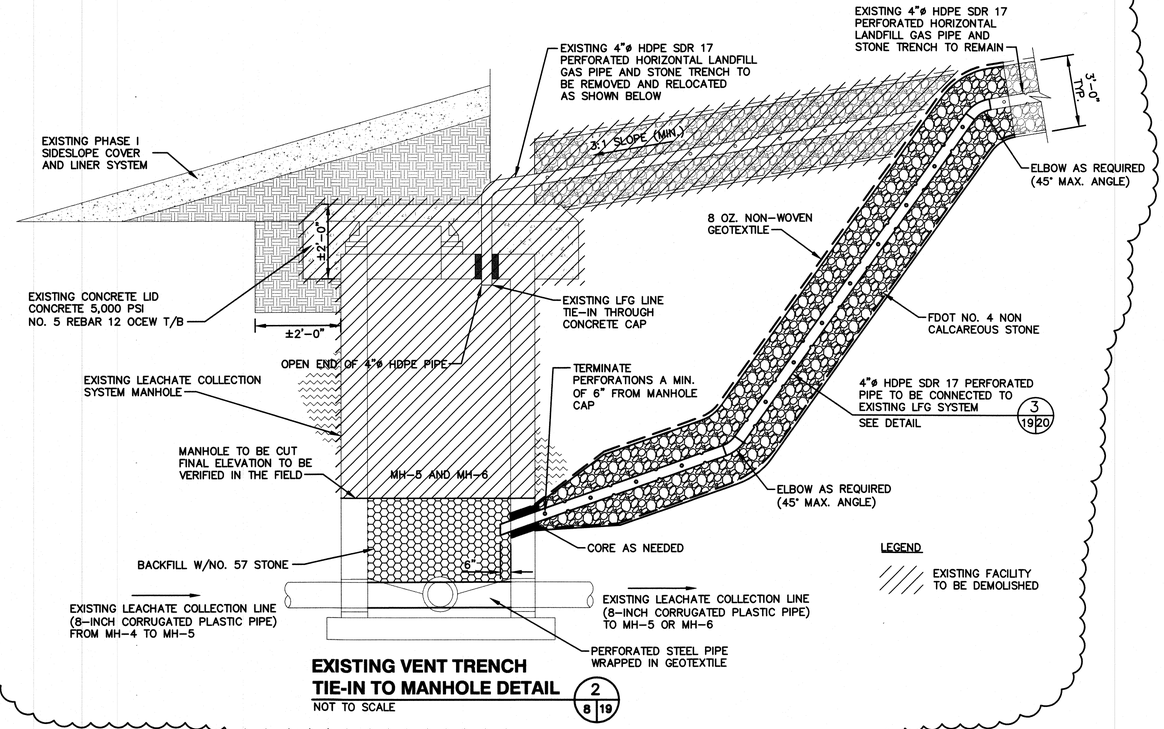
HAY BALE BARRIER DETAIL 5 (7|19)

NOT TO SCALE



EXISTING VENT TRENCH TIE-IN TO MANHOLE DETAIL 1 (8.20|19)

NOT TO SCALE



EXISTING VENT TRENCH TIE-IN TO MANHOLE DETAIL 2 (8|19)

NOT TO SCALE

JAIME R. FISCHER — LICENSED — STATE OF FLORIDA — PROFESSIONAL ENGINEER
SHANE R. FITZHUGH, P.E.
LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
1	04/01/13	REVISED PER R.A.I. NO. 1	SRF

DRAWING TITLE: **DETAILS - 2**

PROJECT TITLE: **HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

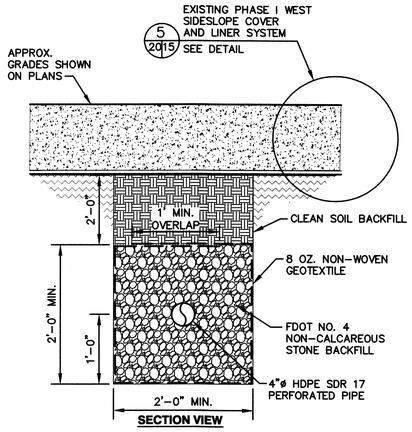
PROJ. NO. 09199033.23 | DWN. BY: SDA | CHK. BY: SRF | QA/QC BY: CEH | APP. BY: SRF

CADD FILE: 993323LFGDETL1

DATE: APRIL 2013

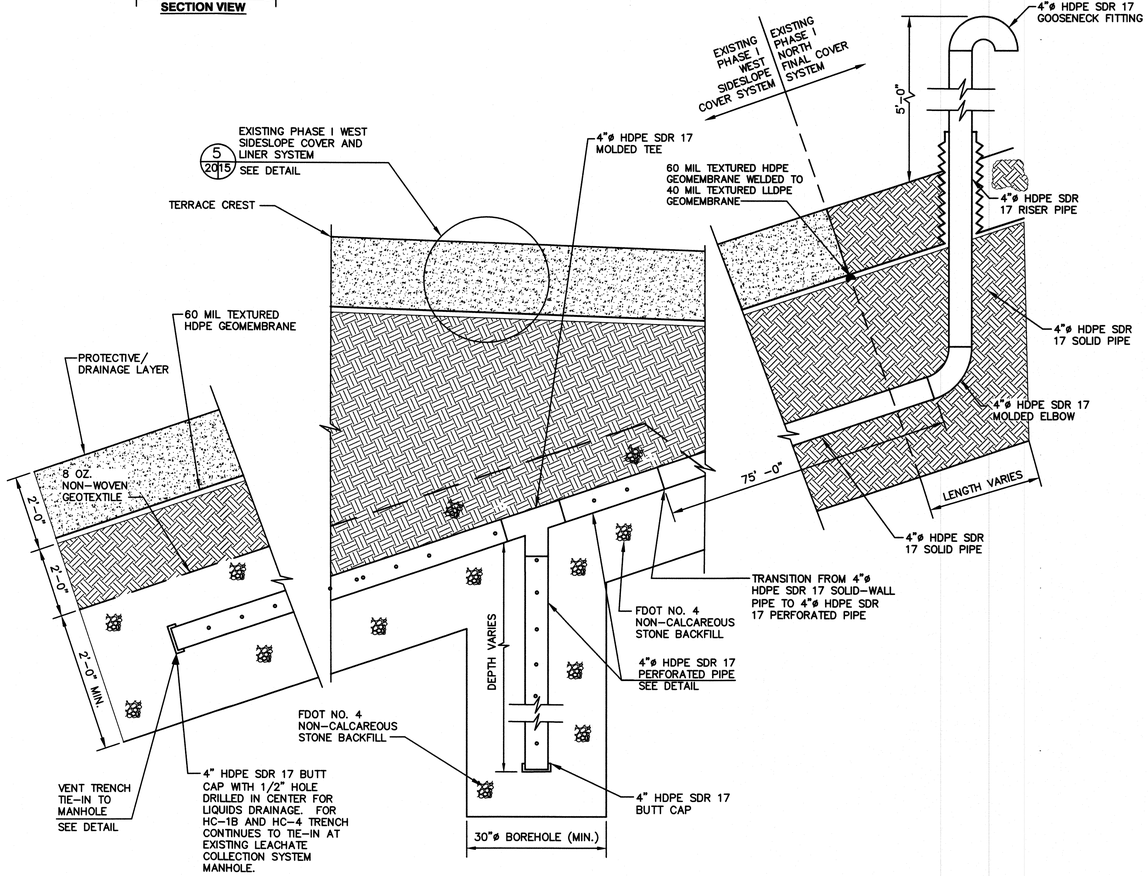
SCALE: AS SHOWN

DRAWING NO. **19** of **37**

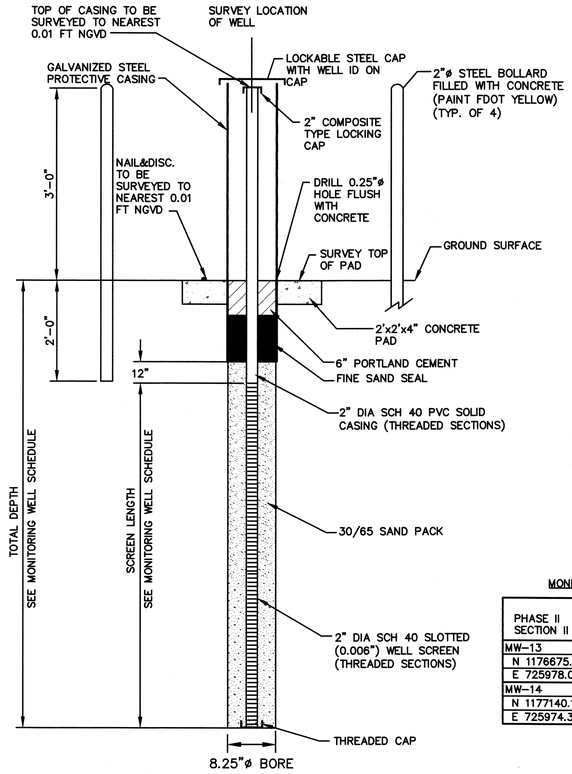


LANDFILL GAS MONITORING PROBE SCHEDULE

Probe ID	Northing	Easting	Approx. Ground Surface	Well Depth	Slotted Pipe Length	Solid Pipe Length Below Grade	Solid Pipe Length Above Grade
GP-3R	1177624.46	726157.43	82.0	7.56	5.06	2.5	3
GP-4R	1177308.20	725945.51	84.0	8.54	6.04	2.5	3
GP-5R	1177004.63	725946.99	85.0	9.54	7.04	2.5	3
GP-6R	1176702.21	725946.53	84.5	9.92	7.42	2.5	3
GP-7R	1176402.21	725946.53	84.0	9.42	6.92	2.5	3
GP-8R	1176099.87	725949.54	84.0	10.59	8.09	2.5	3



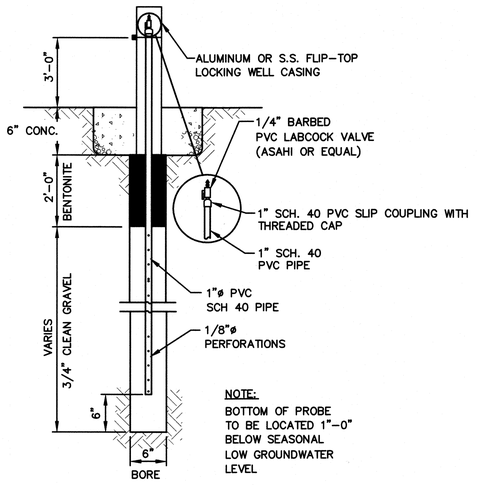
EXISTING HORIZONTAL LANDFILL GAS VENT TRENCH DETAIL (TYP.) 3 / 8 20
NOT TO SCALE



MONITORING WELL SCHEDULE

PHASE II SECTION II	GROUND ELEV. (FT NGVD)	TOTAL DEPTH (FT BLS)	SCREEN LENGTH (FT)
MW-13	85.9	17.0	15.0
N 1176675.10			
E 725978.03			
MW-14	86.0	17.0	15.0
N 1177140.10			
E 725974.39			

TYPICAL MONITORING WELL DETAIL 1 / 4,8,9 20
NOT TO SCALE



LANDFILL GAS MONITORING PROBE (GP) DETAIL 2 / 4,8,9 20
NOT TO SCALE

J:\PROJECTS\Hardee\09\09033.23\Construction\993323LFGDETL1.dgn 30 Apr 2013 8:30am Kevin Howe (FDOT)

WILLIAM R. FISCHER LICENSE NO. 58026 STATE OF FLORIDA PROFESSIONAL ENGINEER
SHANE R. FISCHER, P.E. LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: **DETAILS - 3**

PROJECT TITLE: **HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 623-5757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

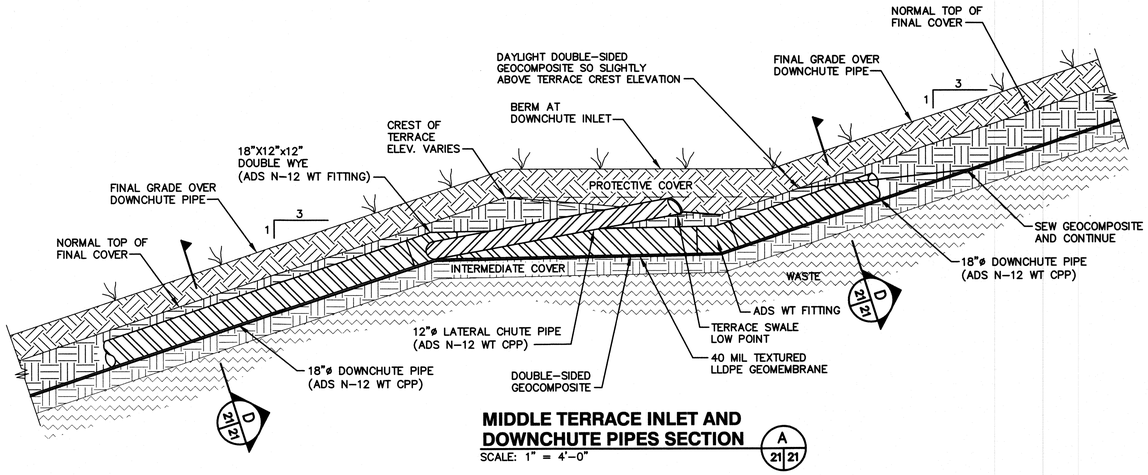
PROJ. NO. 09\09033.23 | DWN. BY: SDA | CHK. BY: SRF | Q/A REVW BY: CEH | APP. BY: SRF | DSGN BY: SRF

CADD FILE: 993323LFGDETL1

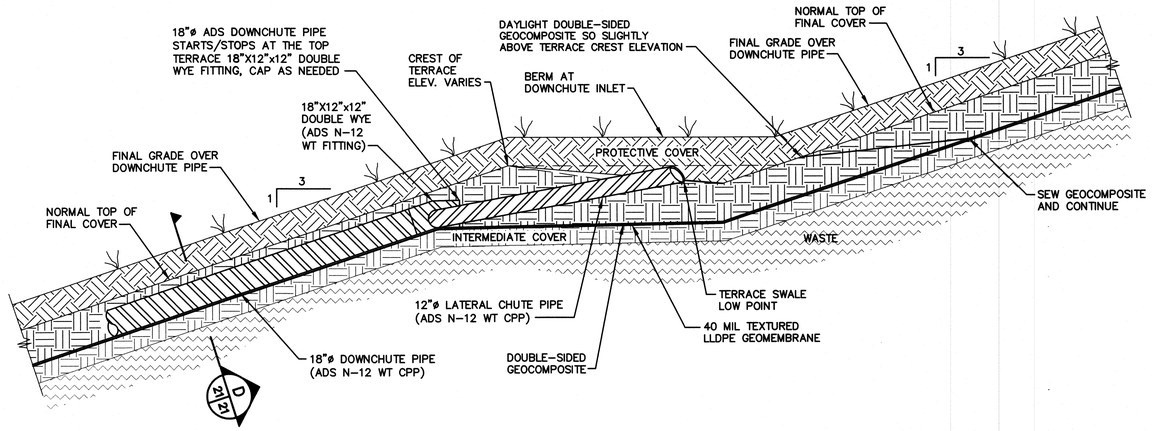
DATE: APRIL 2013

SCALE: AS SHOWN

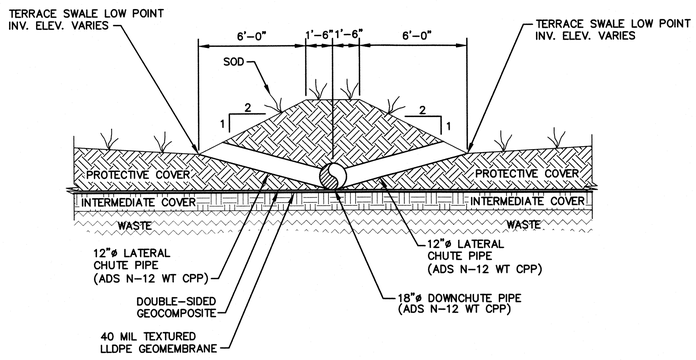
DRAWING NO. **20** of 37



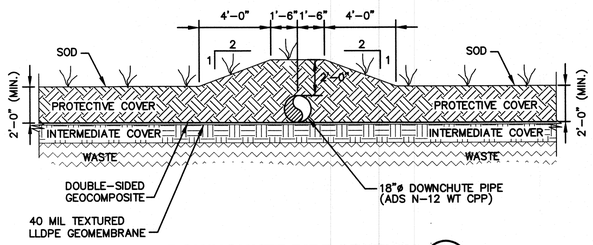
MIDDLE TERRACE INLET AND DOWNCHUTE PIPES SECTION A 21/21
SCALE: 1" = 4'-0"



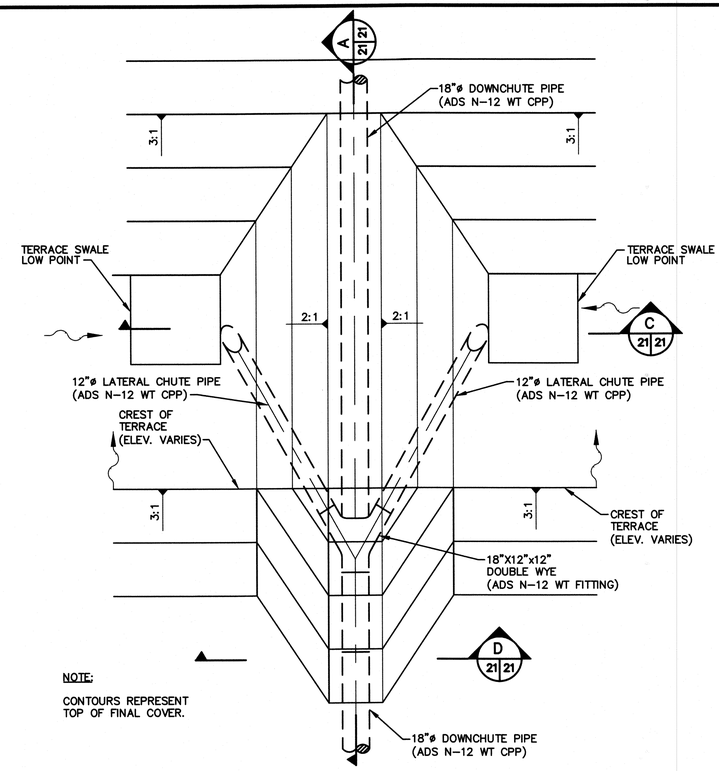
TOP TERRACE INLET AND DOWNCHUTE PIPES SECTION B 21/21
SCALE: 1" = 4'-0"



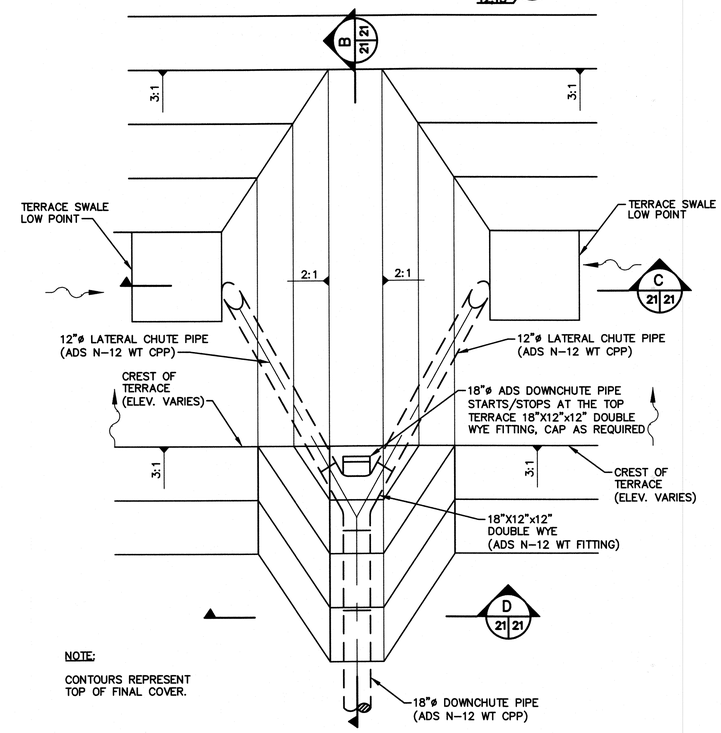
DOWNCHUTE INLET AND DOWNCHUTE PIPE SECTION C 21/21
SCALE: 1" = 4'-0"



DOWNCHUTE PIPE SECTION D 21/21
SCALE: 1" = 4'-0"



MIDDLE TERRACE INLET AND DOWNCHUTE PIPES DETAIL 1 21
SCALE: 1" = 4'-0"
12.13



TOP TERRACE INLET AND DOWNCHUTE PIPES DETAIL 2 21
SCALE: 1" = 4'-0"
12.13

STATE OF FLORIDA LICENSED PROFESSIONAL ENGINEER SHANE R. SCHMIDT P.E. LICENSE NO. 56026

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: **DETAILS - 4**

PROJECT TITLE: **HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 623-0757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

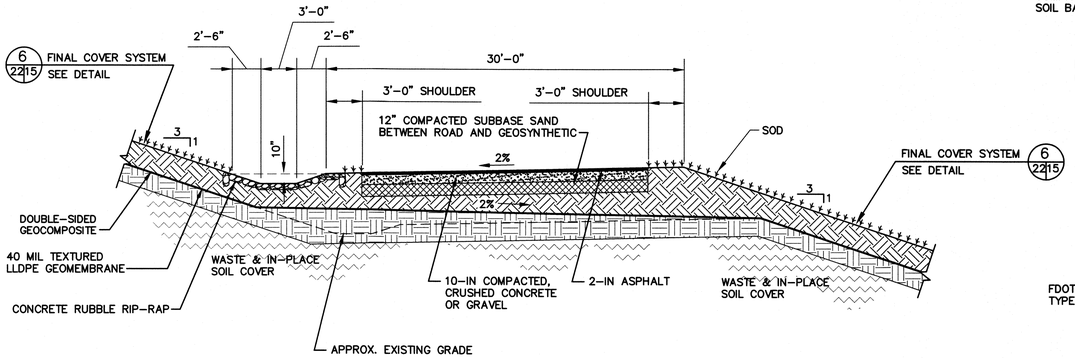
PROJ. NO.	DWN. BY:	CHK. BY:	D/A RVW BY:	APP. BY:
01993033.23	SDA	CEH	SRF	
TASK NO. 0021		SRF		

CADD FILE: 993323DETAILS2

DATE: APRIL 2013

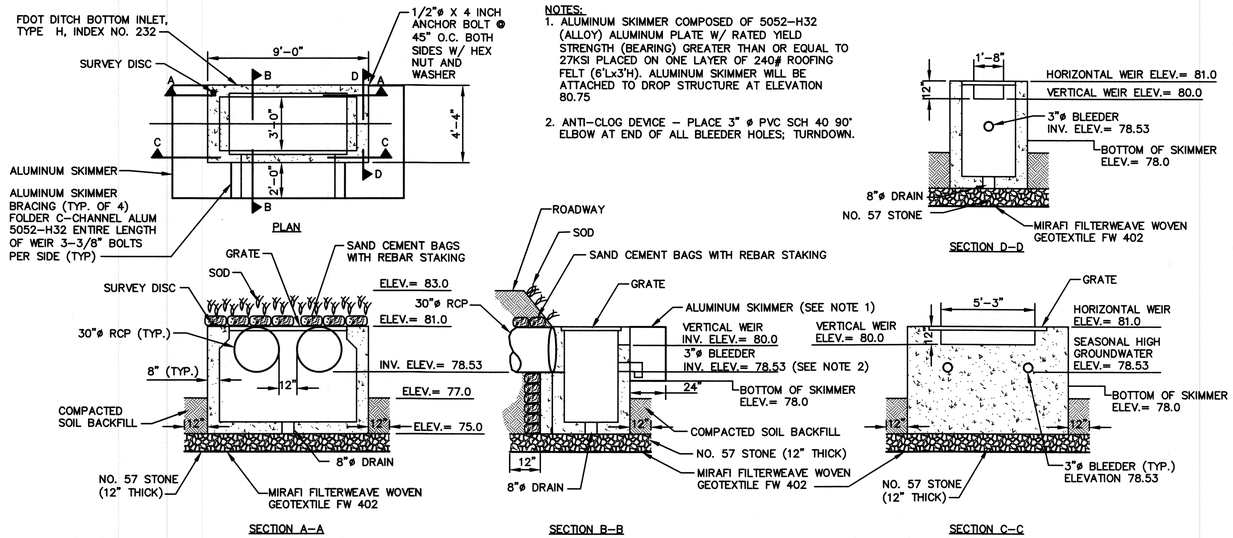
SCALE: AS SHOWN

DRAWING NO. **21** of **37**



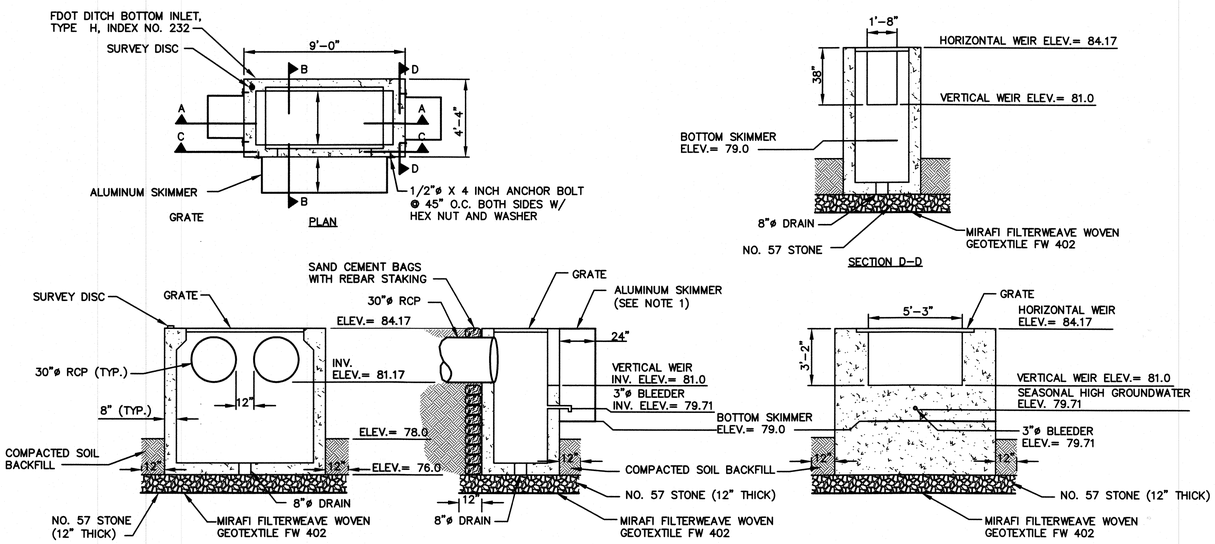
EXISTING PHASE I PERMANENT ACCESS RAMP DETAIL 3 / 10|22

SCALE: 1" = 6'



EXISTING OFF-SITE DISCHARGE STRUCTURE DETAIL 2 / 4|22

NOT TO SCALE



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
						81	20"x38"	2			
Borrow Pit	78.53	30	2	81.00	79"x36"	80	63"x12"	1	78.53	3	4
						80	20"x12"				

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

EXISTING WETLAND DISCHARGE STRUCTURE DETAIL 1 / 4|22

NOT TO SCALE

S:\Data\Projects\09199033.23\Construction\993323DETAILS5.dgn 30 Jan 2013 - 8:49am Kamal Nsour Details 22 By: KNsour

SHANE R. FISCHER LICENSE NO. 58026 STATE OF FLORIDA PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: DETAILS - 5

PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0090 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

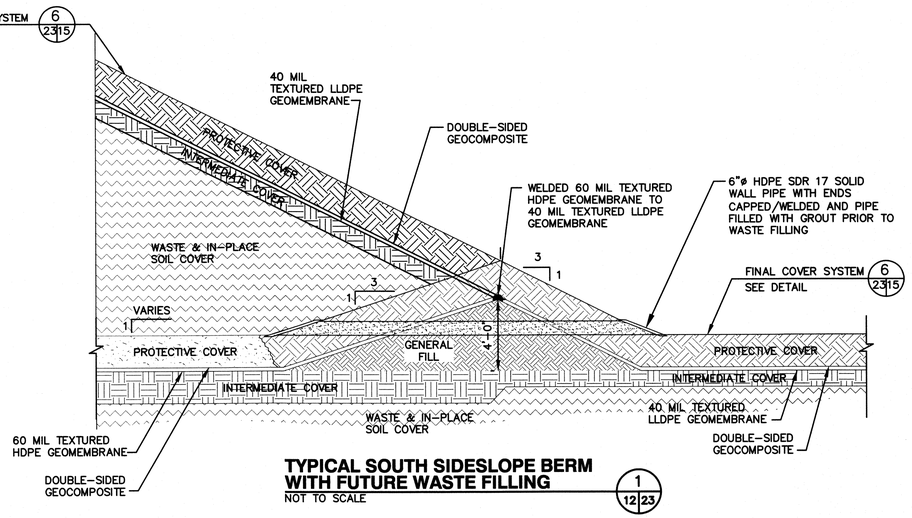
PROJ. NO. 09199033.23 | DSN. BY: SRF | DWN. BY: SDA | CHK. BY: SRF | Q/A RVW BY: CEH | APP. BY: SRF

CADD FILE: 993323DETAILS5

DATE: APRIL 2013

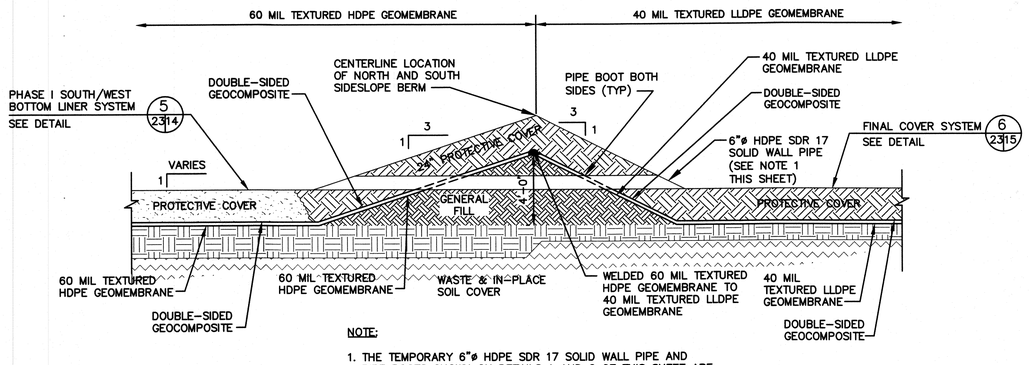
SCALE: AS SHOWN

DRAWING NO. 22 of 37



TYPICAL SOUTH SIDESLOPE BERM WITH FUTURE WASTE FILLING 1 12 23

NOT TO SCALE

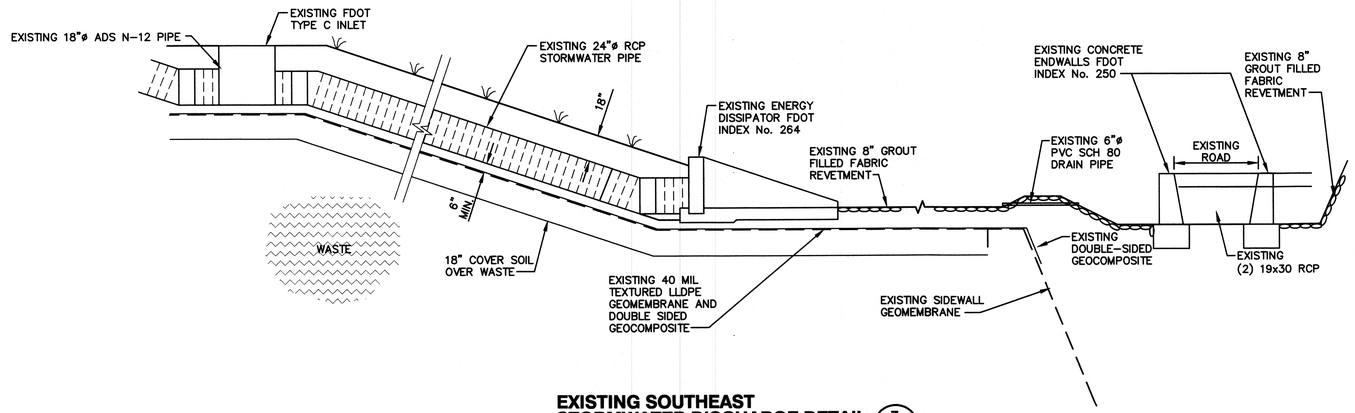


NOTE:

1. THE TEMPORARY 6"ø HDPE SDR 17 SOLID WALL PIPE AND PIPE BOOTS SHOWN ON DETAILS 1 AND 2 OF THIS SHEET ARE ONLY LOCATED THROUGH THE SOUTH SIDESLOPE BERMS.

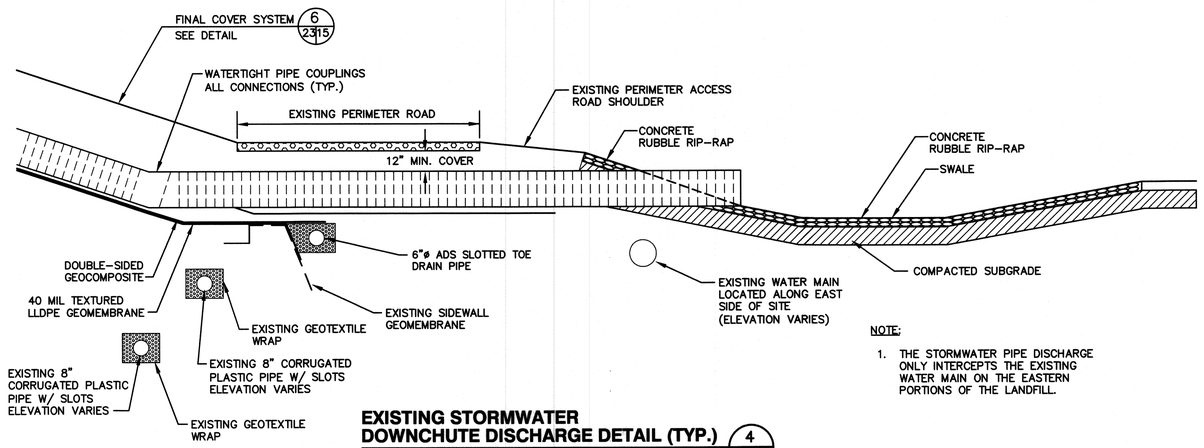
TYPICAL NORTH AND SOUTH SIDESLOPE BERM 2 7 23

NOT TO SCALE



EXISTING SOUTHEAST STORMWATER DISCHARGE DETAIL 3 12 23

NOT TO SCALE



NOTE:

1. THE STORMWATER PIPE DISCHARGE ONLY INTERCEPTS THE EXISTING WATER MAIN ON THE EASTERN PORTIONS OF THE LANDFILL.

EXISTING STORMWATER DOWNCHUTE DISCHARGE DETAIL (TYP.) 4 12 23

NOT TO SCALE

JANE R. FISCHER
LICENSE
No. 58026
STATE OF FLORIDA
PROFESSIONAL ENGINEER
JANE R. FISCHER, P.E.
LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: **DETAILS - 5**

PROJECT TITLE: **HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 01899033.23 | DWN. BY: SDA | D/A RVW BY: CEH
DSN. BY: SRF | CHK. BY: SRF | APP. BY: SRF

CADD FILE: 993323DETAILS5

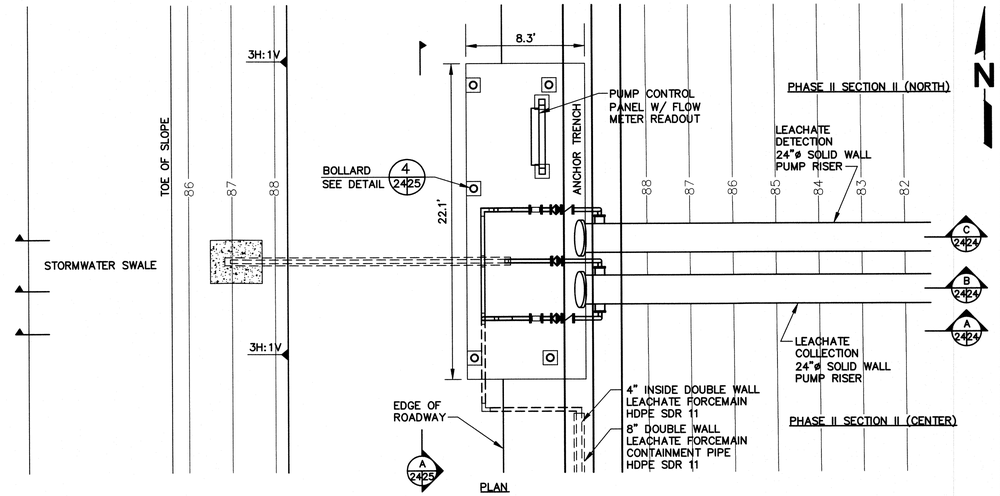
DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO.

23 of 37

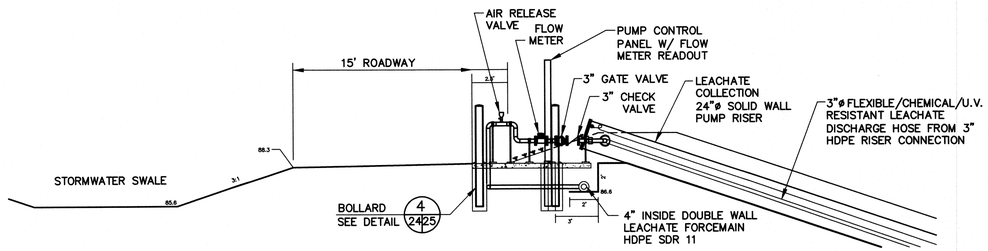
G:\SCS Projects\01899033.23\Construction\993323DETAILS5.dgn Mar 30, 2013 - 8:29am Layout Name: Detail #4 By: srfisher



LEACHATE COLLECTION AND DETECTION RISER PIPING CONNECTION DETAIL

1 / 9,18 / 24

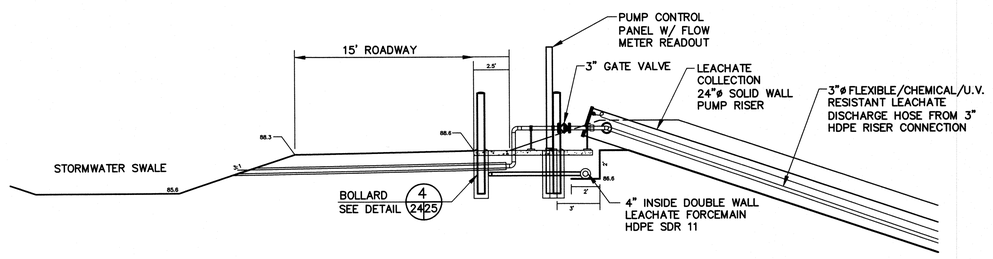
SCALE: 1" = 5'



LEACHATE COLLECTION RISER PIPE CONNECTION SECTION

A / 24 / 24

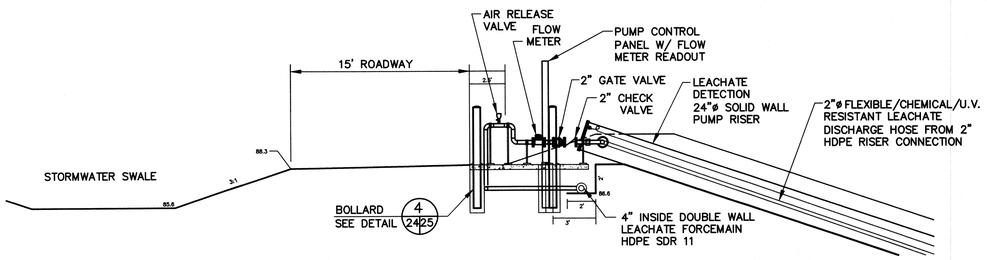
SCALE: 1" = 5'



LEACHATE COLLECTION RISER PIPE STORMWATER BY-PASS CONNECTION SECTION

B / 24 / 24

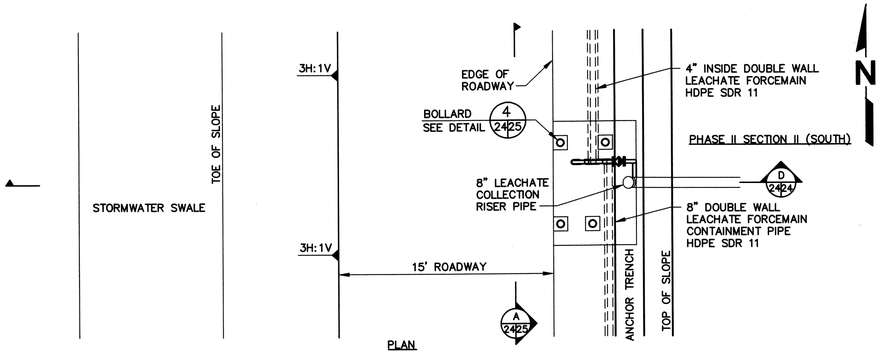
SCALE: 1" = 5'



LEACHATE DETECTION RISER PIPE CONNECTION SECTION

C / 24 / 24

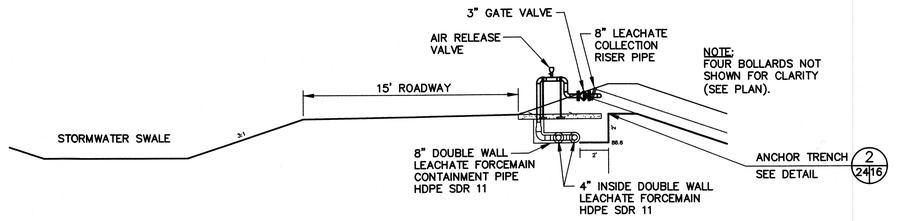
SCALE: 1" = 5'



NORTH AND MIDDLE LEACHATE COLLECTION CLEAN-OUT RISER CONNECTION DETAIL

2 / 9 / 24

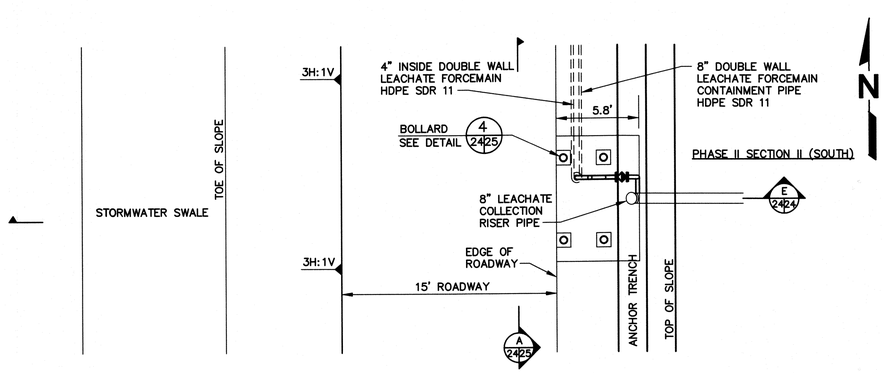
SCALE: 1" = 5'



NORTH AND MIDDLE LEACHATE COLLECTION CLEAN-OUT RISER CONNECTION SECTION

D / 24 / 24

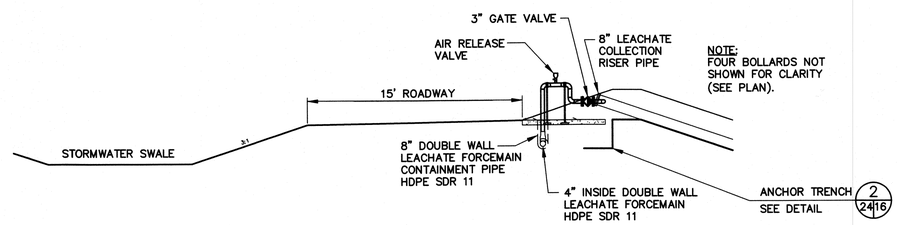
SCALE: 1" = 5'



SOUTH LEACHATE COLLECTION CLEAN-OUT RISER CONNECTION DETAIL

3 / 9 / 24

SCALE: 1" = 5'



SOUTH LEACHATE COLLECTION CLEAN-OUT RISER CONNECTION SECTION

E / 24 / 24

SCALE: 1" = 5'

R. FISCHER SHANE, P.E. LICENSE NO. 58026
STATE OF FLORIDA PROFESSIONAL ENGINEER
SHANE R. FISCHER, P.E. LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: DETAILS - 7

PROJECT TITLE: HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 623-4757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.23 | DSN. BY: SRF | DWN. BY: SDA | CHK. BY: SRF | QA/QC R/W BY: CEH | APP. BY: SRF

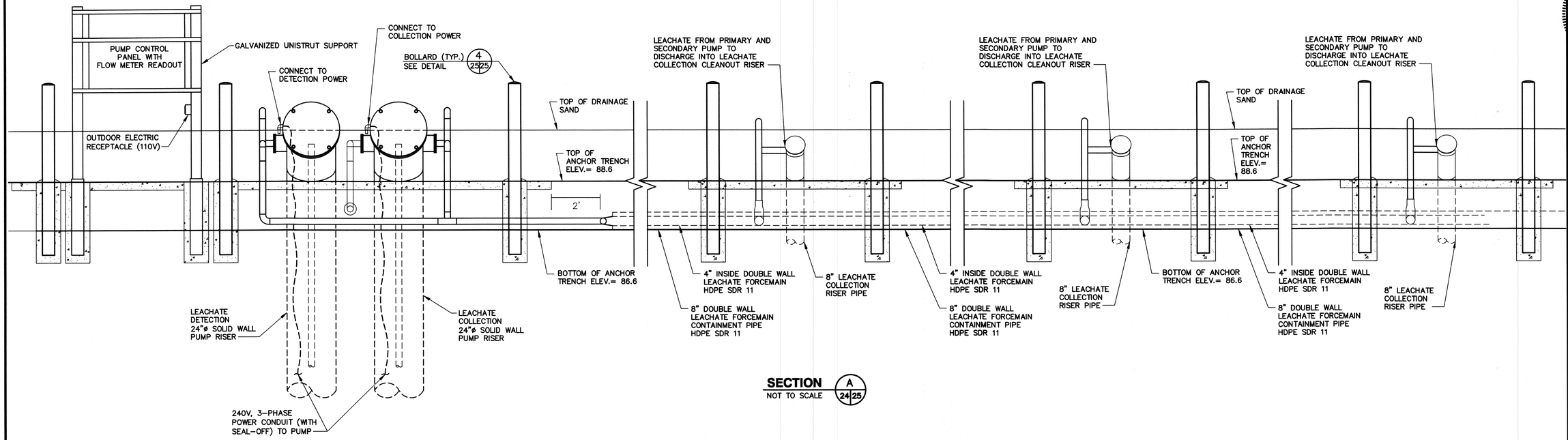
CADD FILE: 993323SUMPDETLS2

DATE: APRIL 2013

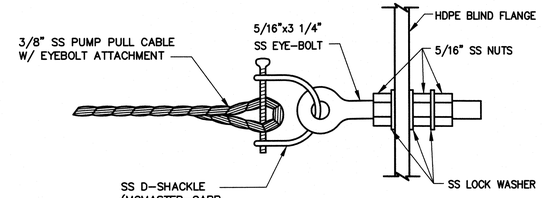
SCALE: AS SHOWN

DRAWING NO. 24 of 37

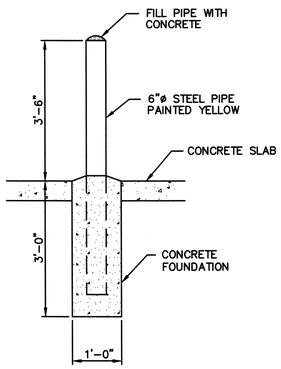
G:\2009\09199033.23\Construction\993323\sheets\993323sht24.dgn Mar 30, 2013 - 8:55am Leigh Ann Sims Points 24 By: 3323sht



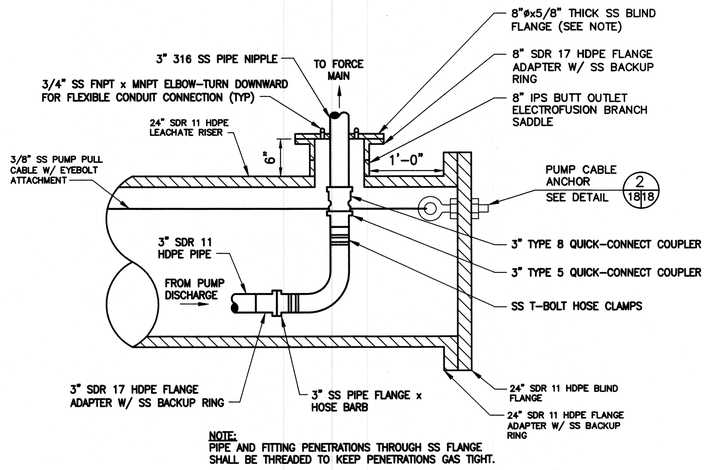
SECTION A 24/25
NOT TO SCALE



PUMP ANCHOR DETAIL 1 18/18
NOT TO SCALE

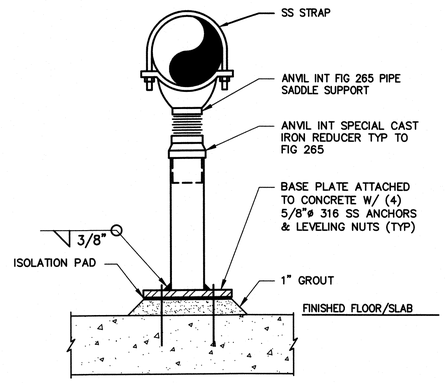


BOLLARD DETAIL 4 24,25
NOT TO SCALE



NOTE:
PIPE AND FITTING PENETRATIONS THROUGH SS FLANGE SHALL BE THREADED TO KEEP PENETRATIONS GAS TIGHT.

RISER DISCHARGE DETAIL 3 18/18
NOT TO SCALE



PIPE SUPPORT DETAIL 2 18/18
NOT TO SCALE

SHANE R. FISCHER LICENSE NO. 58026 STATE OF FLORIDA PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY

DRAWING TITLE: **DETAILS - 8**

PROJECT TITLE: **HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 623-4757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 091990033.23 | DWN. BY: SDA | CHK. BY: SRF | QA/A RVW BY: CEH | APP. BY: SRF | DSN. BY: SRF

CADD FILE: 993323SUMPDETLS2

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO. **25** of **37**

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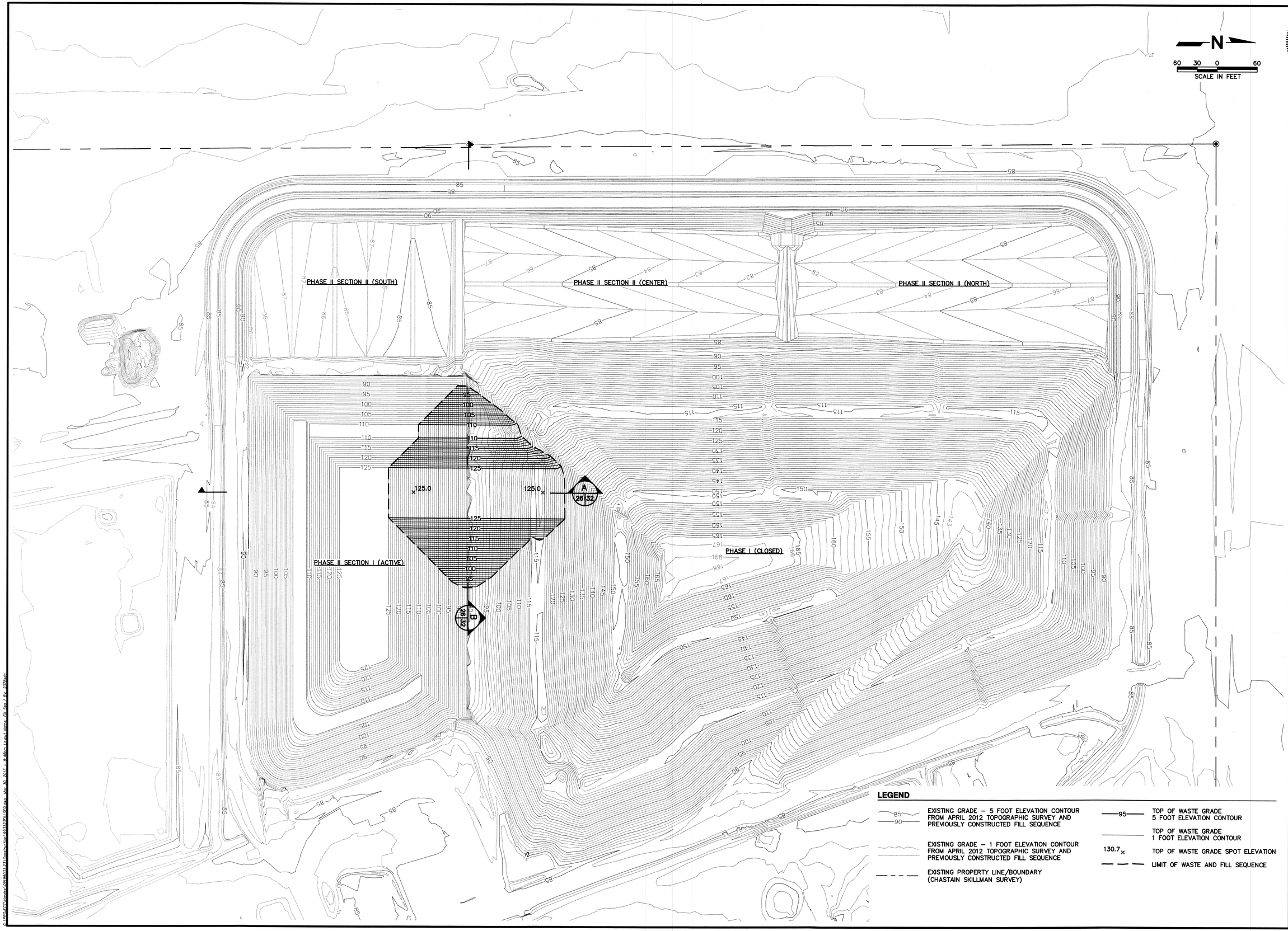

I HEREBY CERTIFY THAT I AM A REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF FLORIDA, PRACTICING WITH SCS ENGINEERS, AND THAT THE FACILITY WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE PERMIT REQUIREMENTS.

SHANE R. FISCHER, P.E. LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY

DRAWING TITLE
PHASE II SECTION I FILL SEQUENCE NO. 1 PLAN

PROJECT TITLE
HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09233.23 | DWN. BY: SDA | CHK. BY: SRF | Q/A REVW. BY: CEH | APP. BY: SRF
DATE: APRIL 2013 | DESIGN BY: SRF

CADD FILE: 993323FILLSEQ

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO.
26 of **37**

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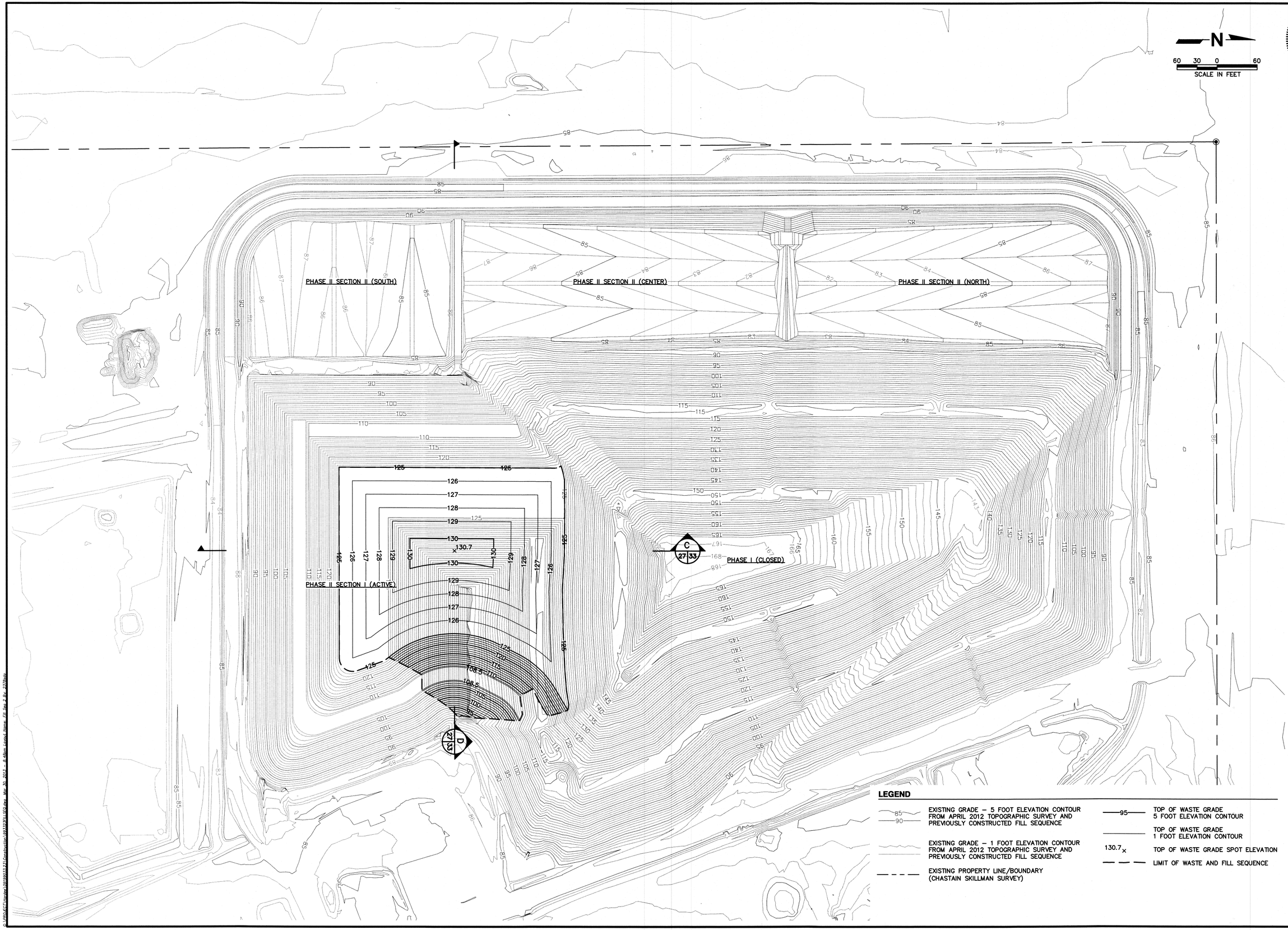


JAIME R. FISCHER LICENSE NO. 58026 STATE OF FLORIDA PROFESSIONAL ENGINEER
SHAWN F. RITTER, P.E. LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY

DRAWING TITLE
PHASE II SECTION I FILL SEQUENCE NO. 2 PLAN

PROJECT TITLE
HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

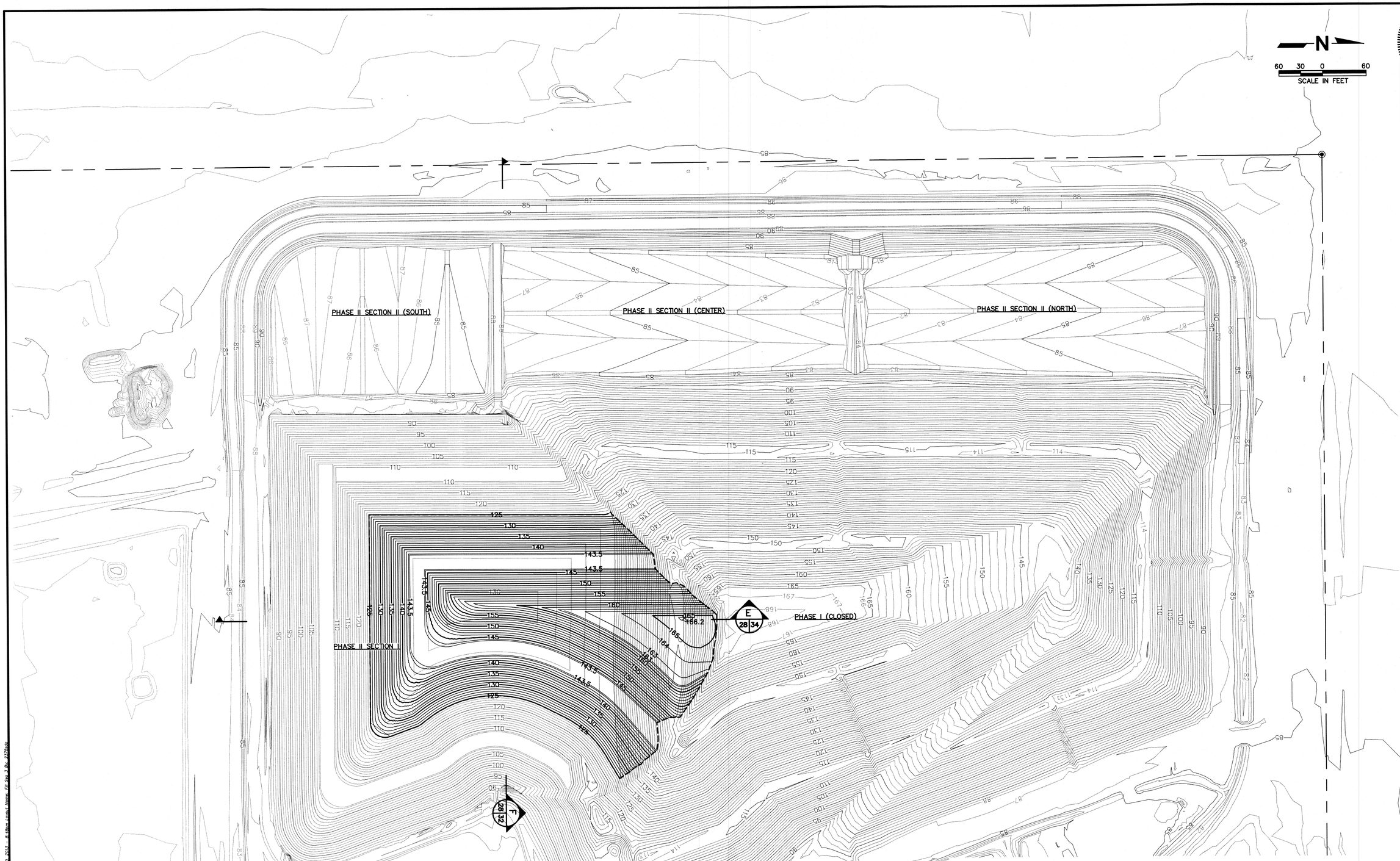
PROJ. NO. 09190333.23 | DSN. BY: SRF | DWN. BY: SDA | CHK. BY: SRF | QA RVW BY: CEH | DPP. BY: SRF

CADD FILE: 993323FILLSEQ

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO. **27** of 37



REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			

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

PROJECT TITLE
HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION DRAWINGS

CLIENT
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 MACDILL AVE., SUITE 100, TAMPA, FL 33610
813.874.0666 FAX 813.874.0775
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.23
DSN. BY: SRF
DWN. BY: SDA
CHK. BY: SRF
Q/A RVW BY: CEH
APP. BY: SRF

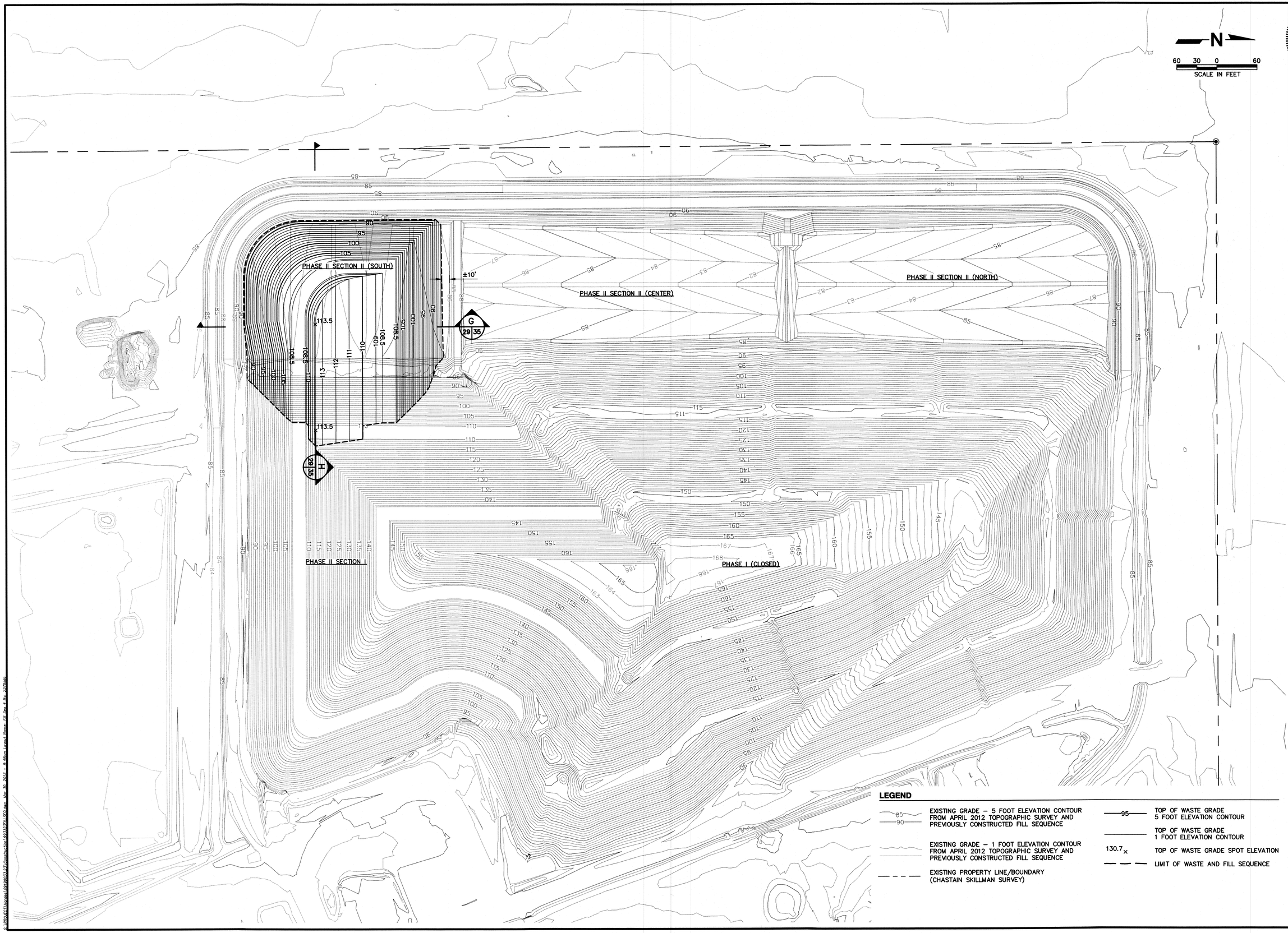
CADD FILE: 993323FILLSEQ

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO.
28 of **37**

STEPHANIE R. HISCHEN LICENSE NO. 58026 STATE OF FLORIDA
SCOTT R. LADD LICENSE NO. 58026 STATE OF FLORIDA PROFESSIONAL ENGINEER
SHANE R. HISCHEN, P.E. LICENSE NO. 58026



REV	DATE	DESCRIPTION	BY

SHANE R. FISCHER LICENSE NO. 58026 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWING TITLE
PHASE II SECTION I AND II FILL SEQUENCE NO. 4 PLAN

PROJECT TITLE
HARDEE COUNTY LANDFILL
PHASE II SECTION II EXPANSION
CONSTRUCTION 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
813 621-0080 FAX 813 623-5757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO: 01199033.23 | DWN. BY: SDA | D/A RVW BY: CEH
TASK. BY: SRF | CHK. BY: SRF | APP. BY: SRF

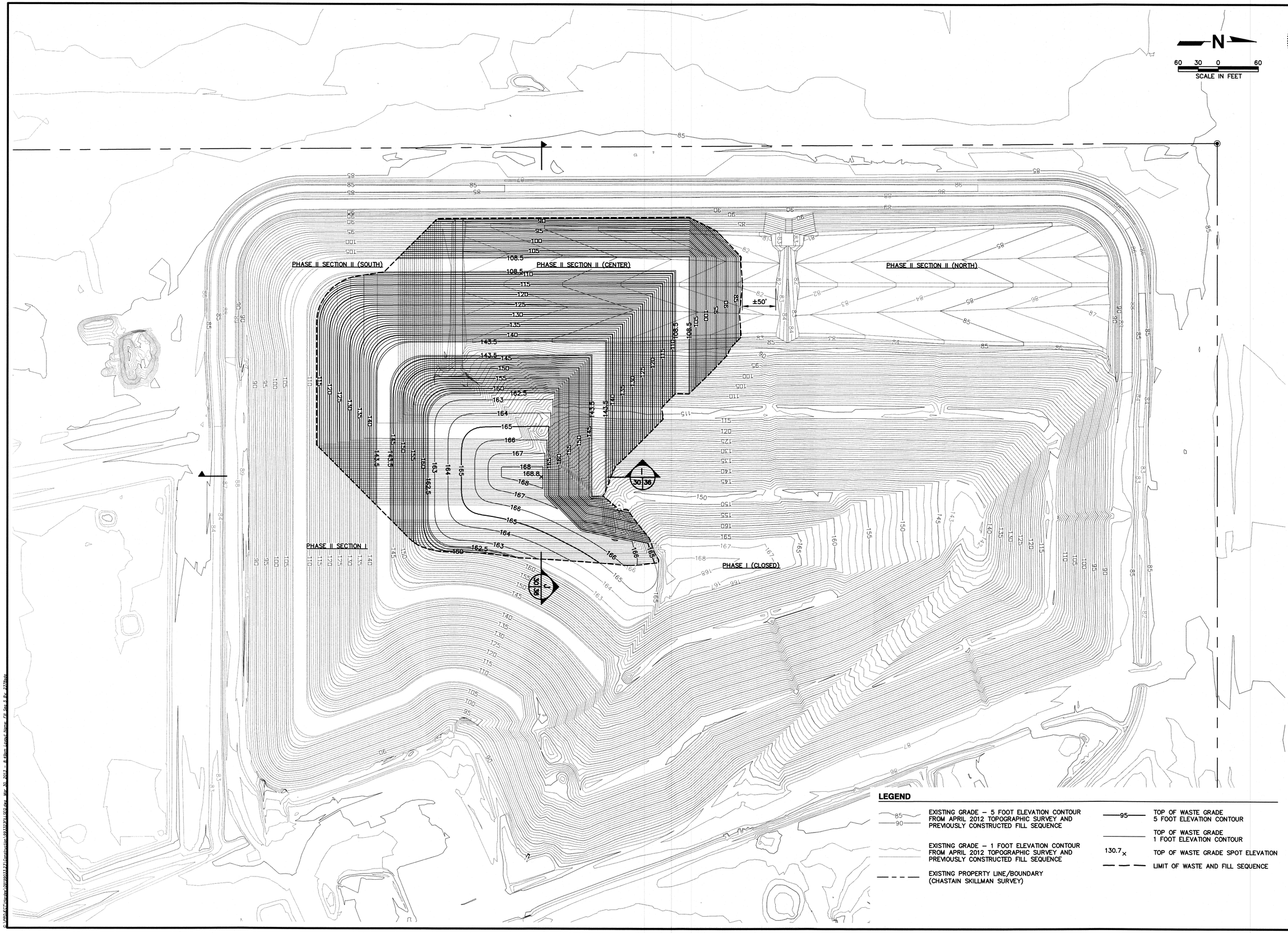
CADD FILE: 993323FILLSEQ

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO.
29 of **37**

G:\Projects\01199033.23\Construction\993323FILLSEQ.dgn Mar 30, 2013 - 8:29am Layout Name: FILL SEQ 4 By: SRFisher



REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			

DRAWING TITLE
PHASE II SECTION I AND II FILL SEQUENCE NO. 5 PLAN

PROJECT TITLE
HARDEE COUNTY LANDFILL
PHASE II SECTION II EXPANSION
CONSTRUCTION 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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.23 | DWN. BY: SDA | CHK. BY: SRF | QA/QC BY: CEH | APP. BY: SRF

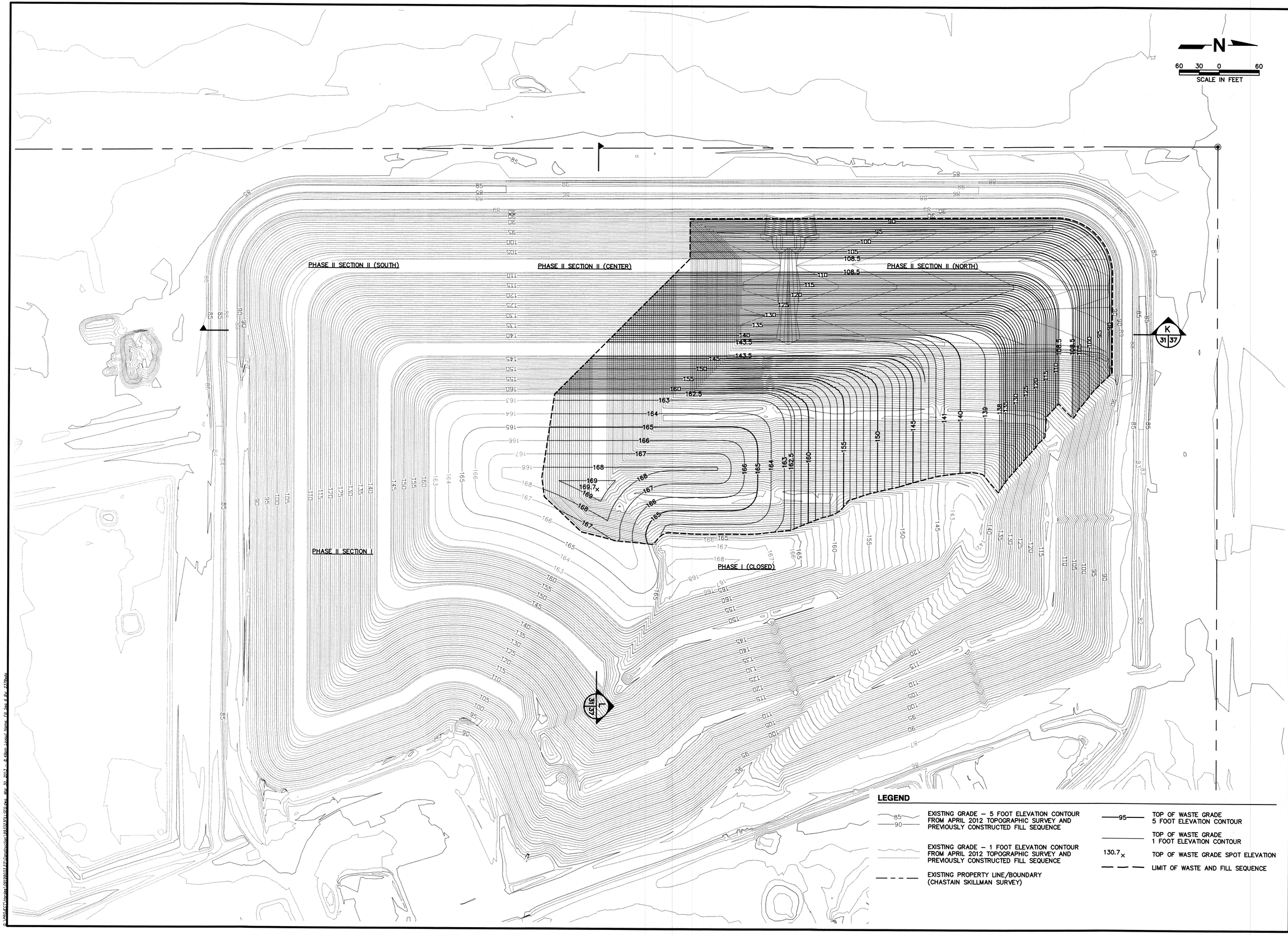
CADD FILE: 993323FILLSEQ

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO. **30** of **37**

JAMES H. FISCHER LICENSE NO. 58026 STATE OF FLORIDA PROFESSIONAL ENGINEER
SHAWN R. FISCHER, P.E. LICENSE NO. 58026



SHANE H. FISCHER LICENSE NO. 58026 STATE OF FLORIDA PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			

DRAWING TITLE
PHASE II SECTION I AND II FILL SEQUENCE NO. 6 PLAN

PROJECT TITLE
HARDEE COUNTY LANDFILL
PHASE II SECTION II EXPANSION
CONSTRUCTION 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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO.	DWN. BY:	CHK. BY:	QA/QC BY:	APP. BY:
01199033.23	SDA	SRF	CEH	SRF
TASK NO. 0007	SRF			

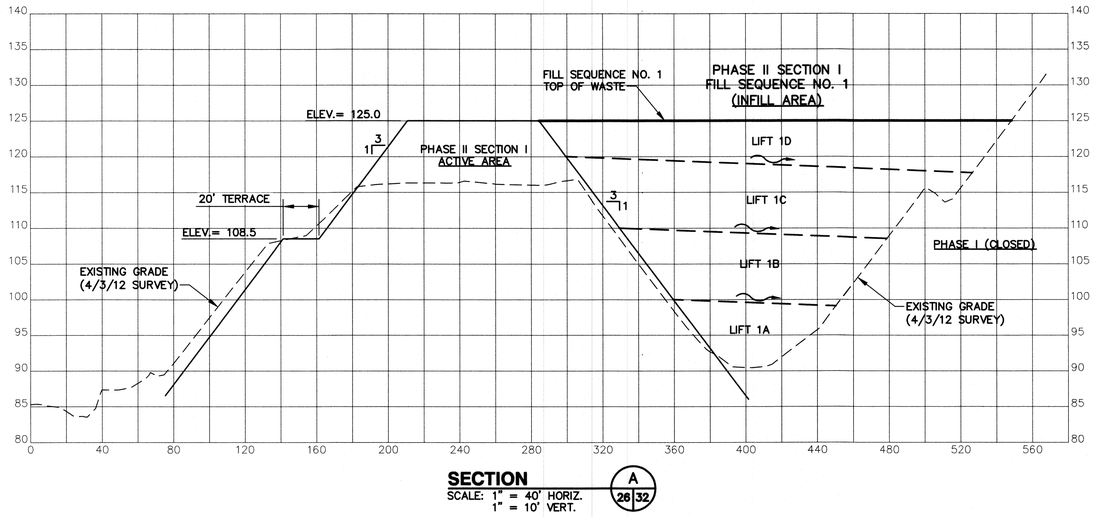
CADD FILE: 993323FILLSEQ

DATE: APRIL 2013

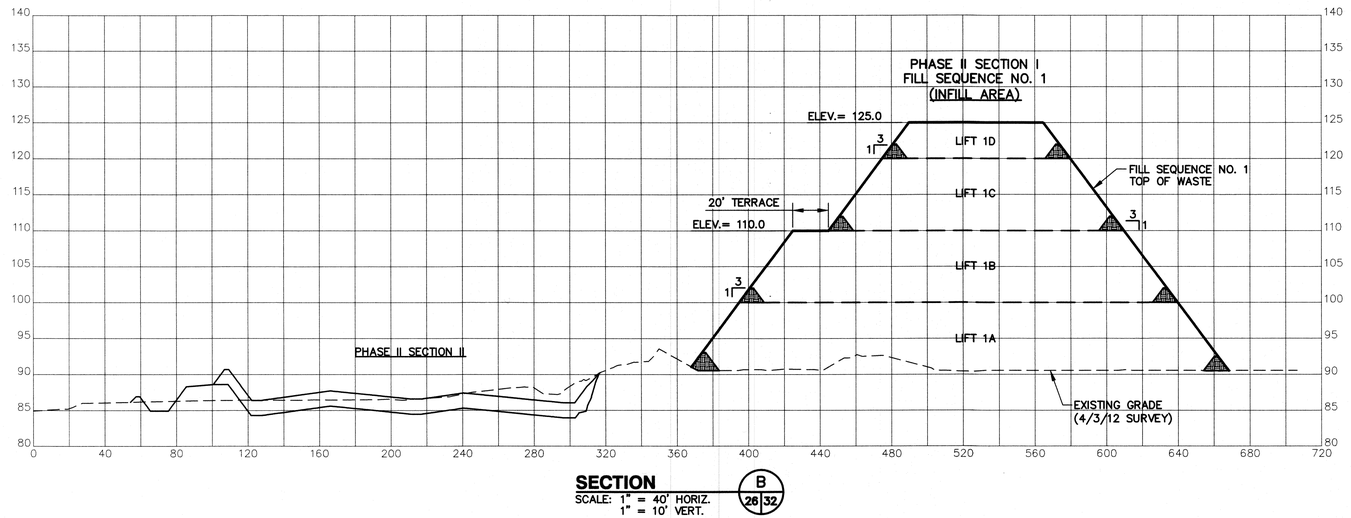
SCALE: AS SHOWN

DRAWING NO.
31 of **37**

G:\1990-GC\Hardee\01990323.23\Construction\993323FILLSEQ.dwg, Mar 30, 2013 - 8:45am, Layout Name: FILL Seq 6 By: AXRefs:



SECTION A (26 | 32)
SCALE: 1" = 40' HORIZ.
1" = 10' VERT.



SECTION B (26 | 32)
SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

NOTE:

1. SLOPES SHALL NOT EXCEED 3H:1V AT ANY TIME, AFTER APPLICATION OF COVER SOILS. ALL FINAL SLOPES SHALL CONFORM TO THE DESIGN DIMENSIONS, SLOPES, AND ELEVATIONS.

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.23 | DWN. BY: SDA | Q/A REVIEW BY: CEH
DSN. BY: SRF | CHK. BY: SRF | APP. BY: SRF

CLIENT
HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS

DRAWING TITLE
PHASE II SECTION I
FILL SEQUENCE NO. 1 SECTIONS

PROJECT TITLE
HARDEE COUNTY LANDFILL
PHASE II SECTION II EXPANSION
CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION	BY

STATE OF FLORIDA
WAYNE R. FISCHER
LICENSE NO. 58026
PROFESSIONAL ENGINEER

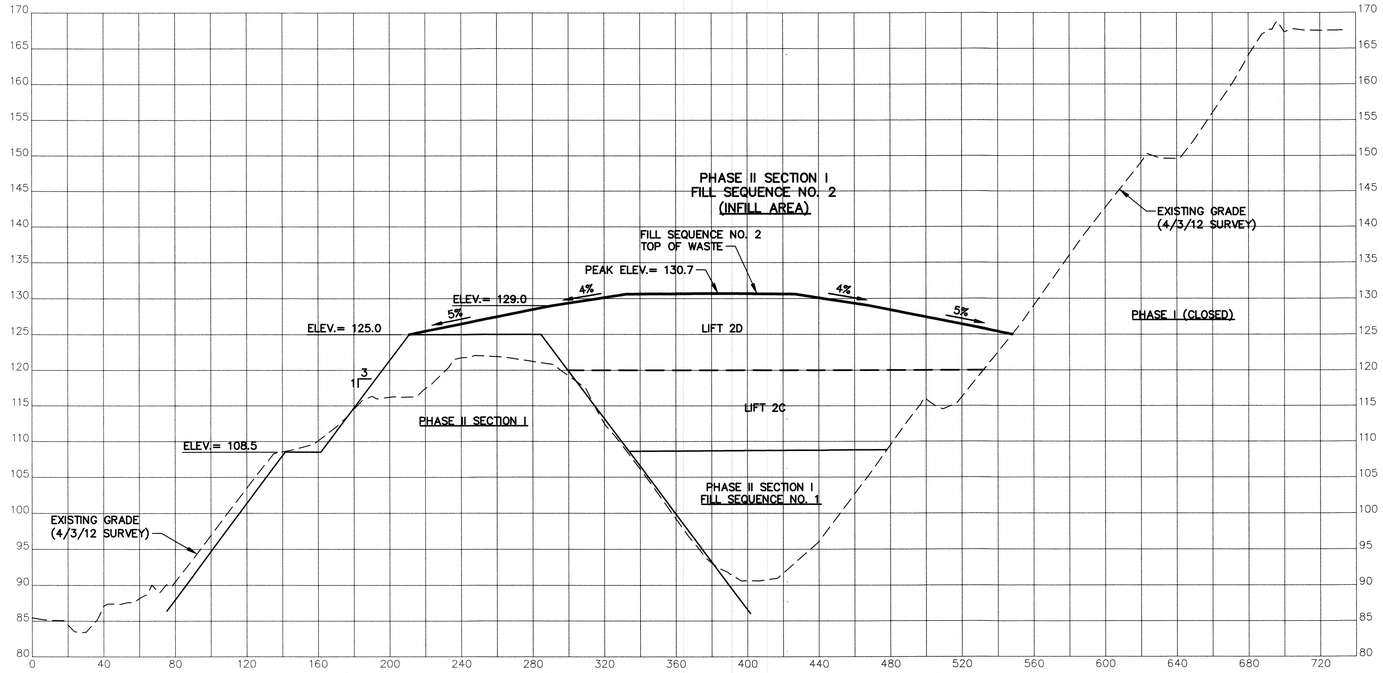
CADD FILE:
993323SECTIONS2

DATE:
APRIL 2013

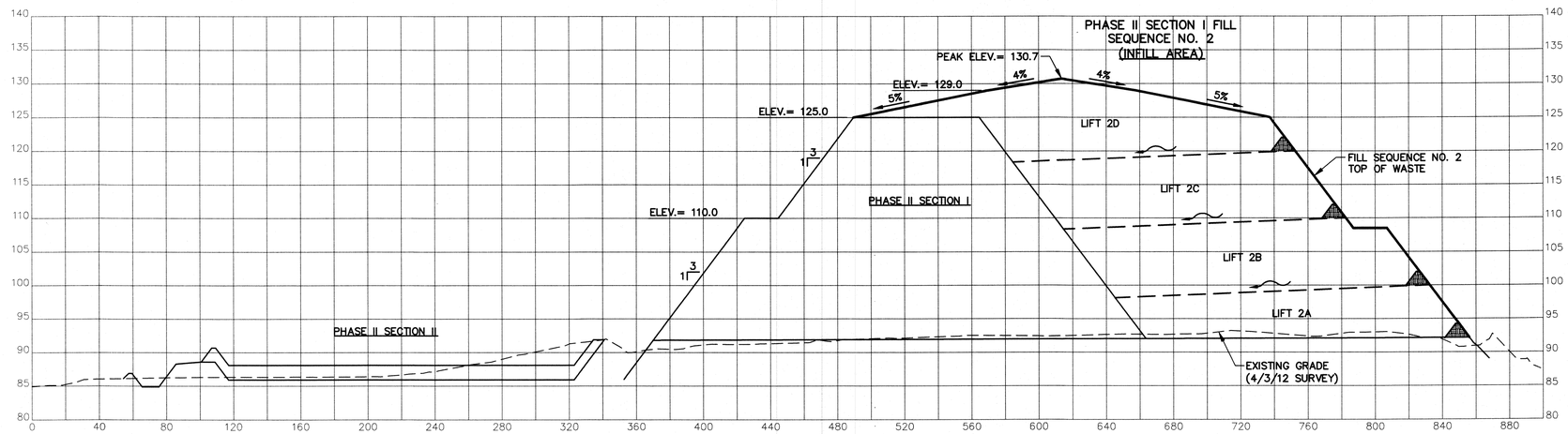
SCALE:
AS SHOWN

DRAWING NO.
32 of 37

A:\SCS ENGINEERS\09199033.23 Hardee County Landfill\Drawings\993323SECTIONS2.dgn 30 Jan 2013 - 8:45am Layout Name - Sections A-B Pg - 32(26)



SECTION C 27 33
SCALE: 1" = 40' HORIZ.
1" = 10' VERT.



SECTION D 27 33
SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

NOTE:

1. SLOPES SHALL NOT EXCEED 3H:1V AT ANY TIME, AFTER APPLICATION OF COVER SOILS. ALL FINAL SLOPES SHALL CONFORM TO THE DESIGN DIMENSIONS, SLOPES, AND ELEVATIONS.

JANINE H. FISCHER — LICENSED — STATE OF FLORIDA — PROFESSIONAL ENGINEER
SHANE R. FISCHER, P.E. LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			

DRAWING TITLE
PHASE II SECTION I
FILL SEQUENCE NO. 2 SECTIONS

PROJECT TITLE
HARDEE COUNTY LANDFILL
PHASE II SECTION II EXPANSION
CONSTRUCTION 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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO. 09199033.23 | DWN. BY: SDA | Q/A REVW. BY: CEH
DSN. BY: SRF | CHK. BY: SRF | APP. BY: SRF

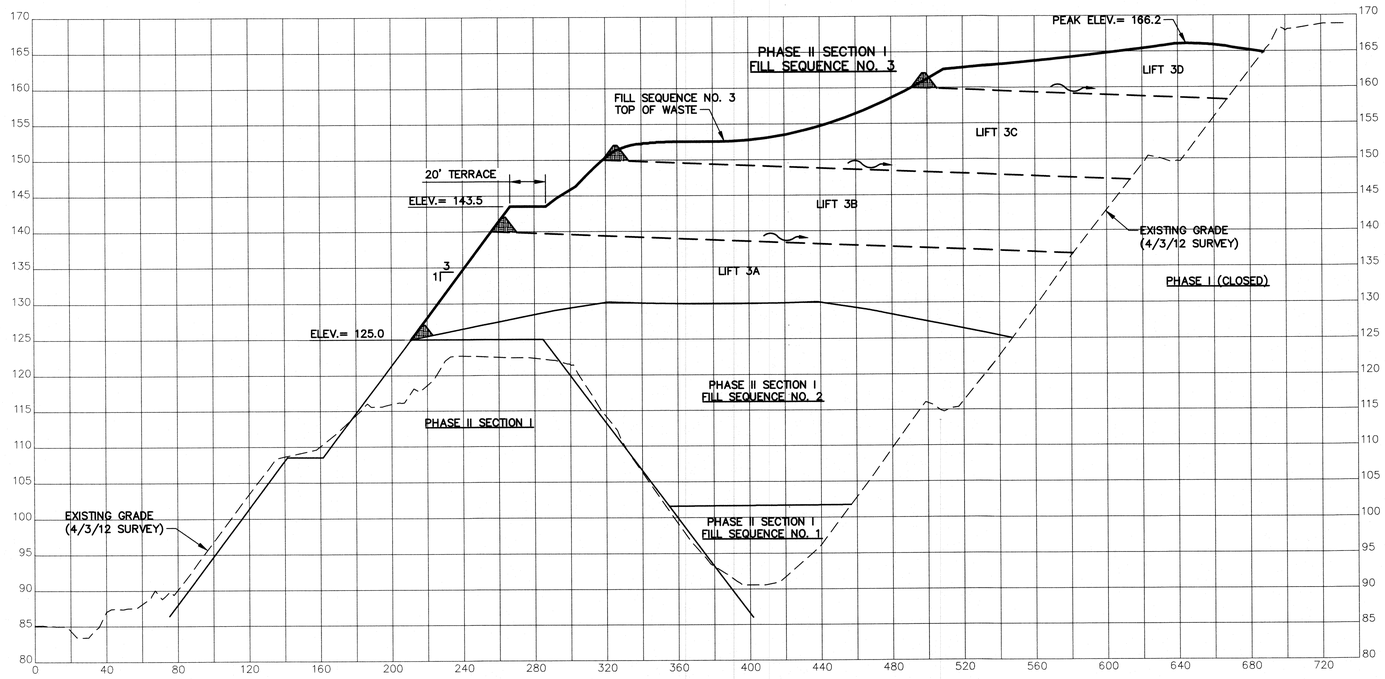
CADD FILE: 993323SECTIONS2

DATE: APRIL 2013

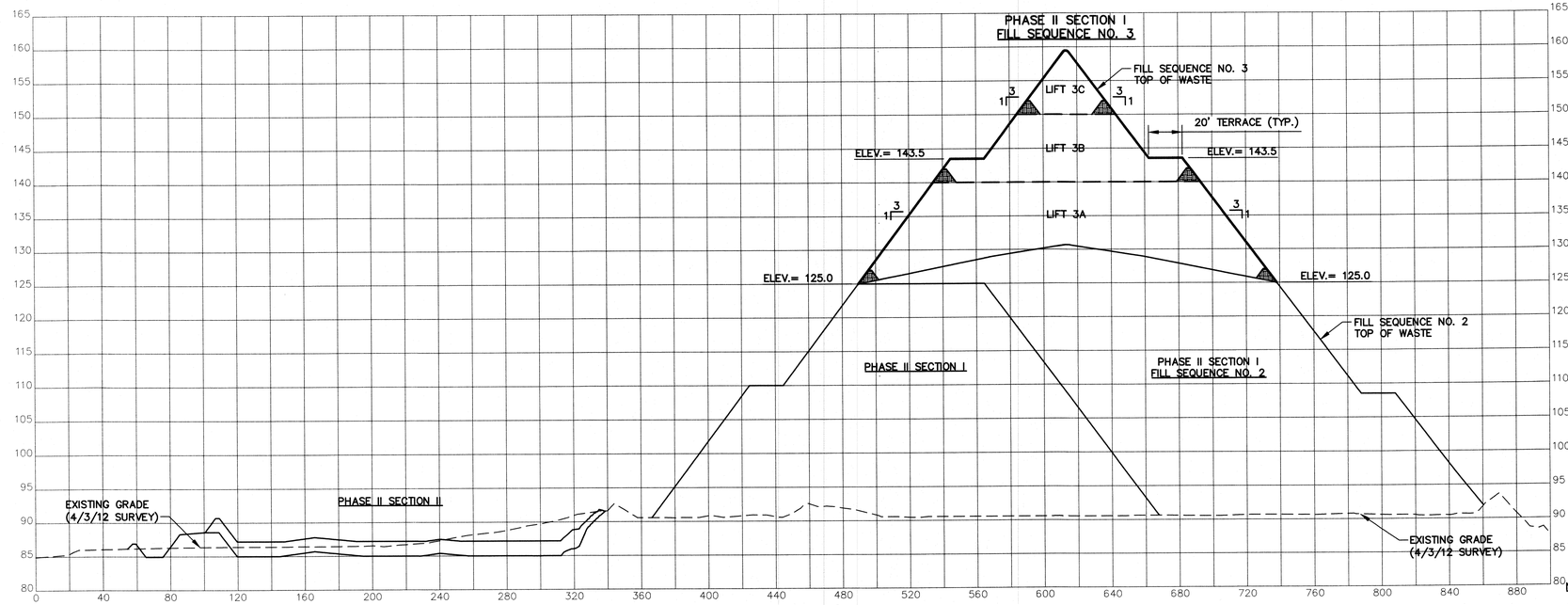
SCALE: AS SHOWN

DRAWING NO.
33 of **37**

G:\Projects\09199033.23\Construction\993323SECTIONS2.dwg Mar 30, 2013 - 8:51am Layout Name - Section C-D Pg - 33789



SECTION (E 28|34)
SCALE: 1" = 40' HORIZ.
1" = 10' VERT.



SECTION (F 28|34)
SCALE: 1" = 40' HORIZ.
1" = 10' VERT.

NOTE:

1. SLOPES SHALL NOT EXCEED 3H:1V AT ANY TIME, AFTER APPLICATION OF COVER SOILS. ALL FINAL SLOPES SHALL CONFORM TO THE DESIGN DIMENSIONS, SLOPES, AND ELEVATIONS.

JANE R. FISCHER — LICENSE — STATE OF FLORIDA — PROFESSIONAL ENGINEER

SHANE R. TRAHAN, P.E. LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			

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

PROJECT TITLE
HARDEE COUNTY LANDFILL
PHASE II SECTION II EXPANSION
CONSTRUCTION DRAWINGS

CLIENT
HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 MACDILL AVE., SUITE 100, TAMPA, FL 33610
813.960.6900 FAX 813.962.4075
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO.	DWN. BY:	CHK. BY:	QA. RVW. BY:	APP. BY:
09199033.23	SDA	SRF	CEH	SRF
DSN. BY: SRF				

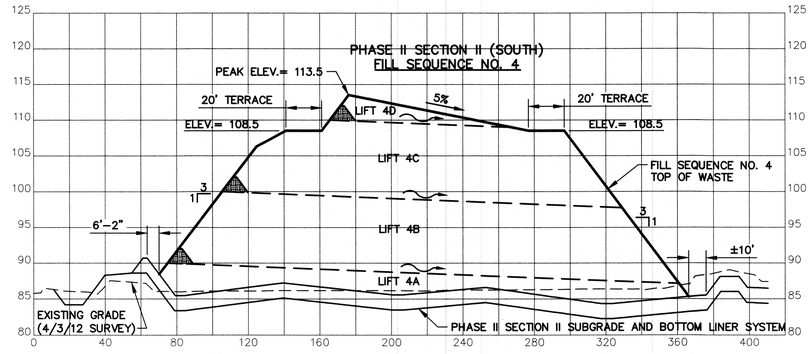
CADD FILE: 993323SECTIONS2

DATE: APRIL 2013

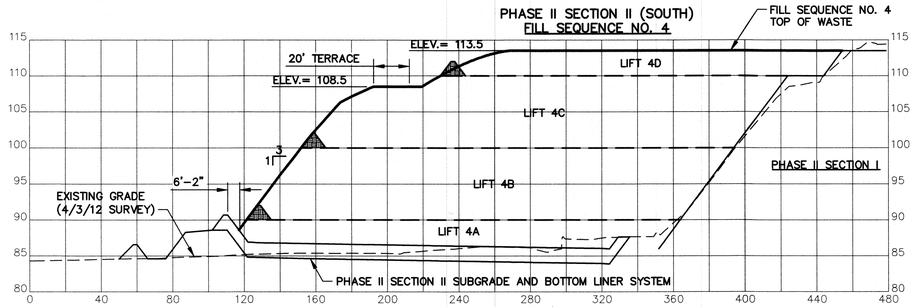
SCALE: AS SHOWN

DRAWING NO.
34 of 37

G:\PROJECT\Hardee\09199033.23\Construction\993323SECTIONS2.dwg Mar 30, 2013 - 8:54am Lloyd Horne Sections E-F By: 2178698



SECTION G
SCALE: 1" = 40' HORIZ.
1" = 10' VERT.
29 35



SECTION H
SCALE: 1" = 40' HORIZ.
1" = 10' VERT.
29 35

NOTE:

1. SLOPES SHALL NOT EXCEED 3H:1V AT ANY TIME, AFTER APPLICATION OF COVER SOILS. ALL FINAL SLOPES SHALL CONFORM TO THE DESIGN DIMENSIONS, SLOPES, AND ELEVATIONS.

DRAWING TITLE
PHASE II SECTION I AND II
FILL SEQUENCE NO. 4 SECTIONS

PROJECT TITLE
HARDEE COUNTY LANDFILL
PHASE II SECTION II EXPANSION
CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION	BY

SHANE H. FISCHER LICENSE — STATE OF FLORIDA — PROFESSIONAL ENGINEER
SHANE H. FISCHER, P.E.
LICENSE NO. 58026

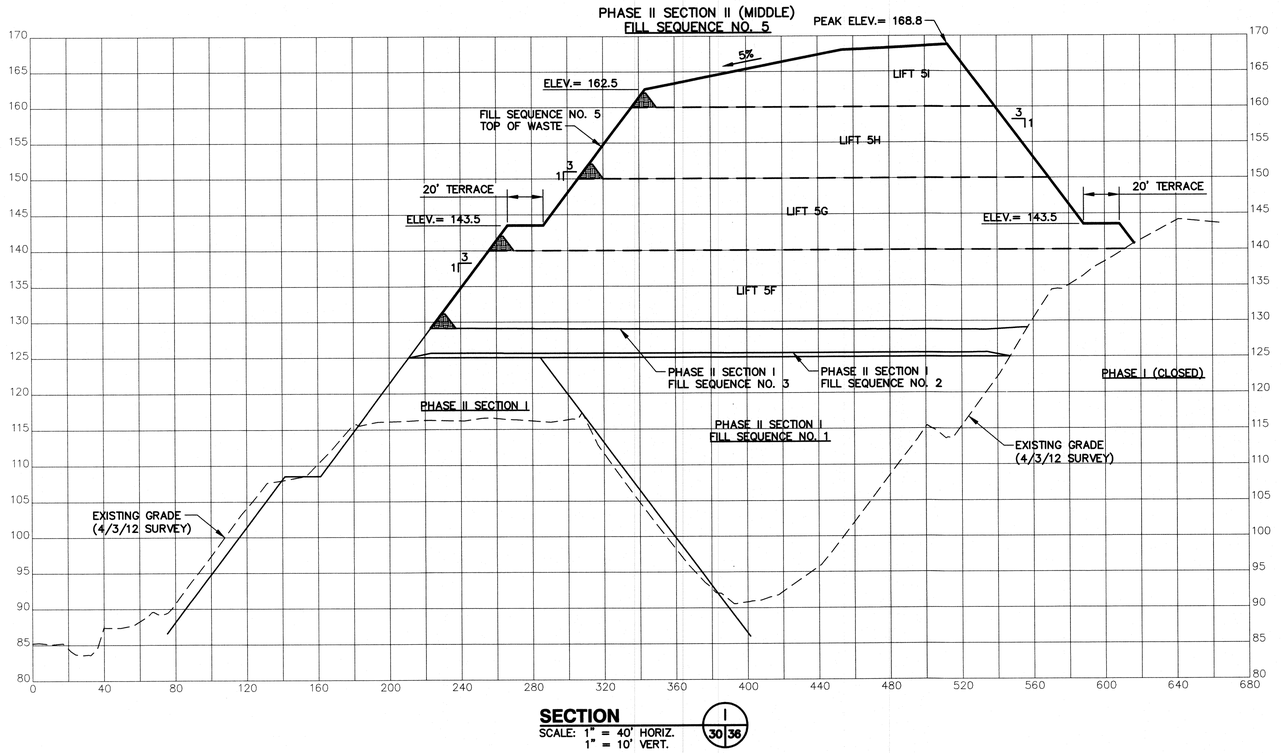
CLIENT
HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD, SUITE 100, TAMPA, FL 33610
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

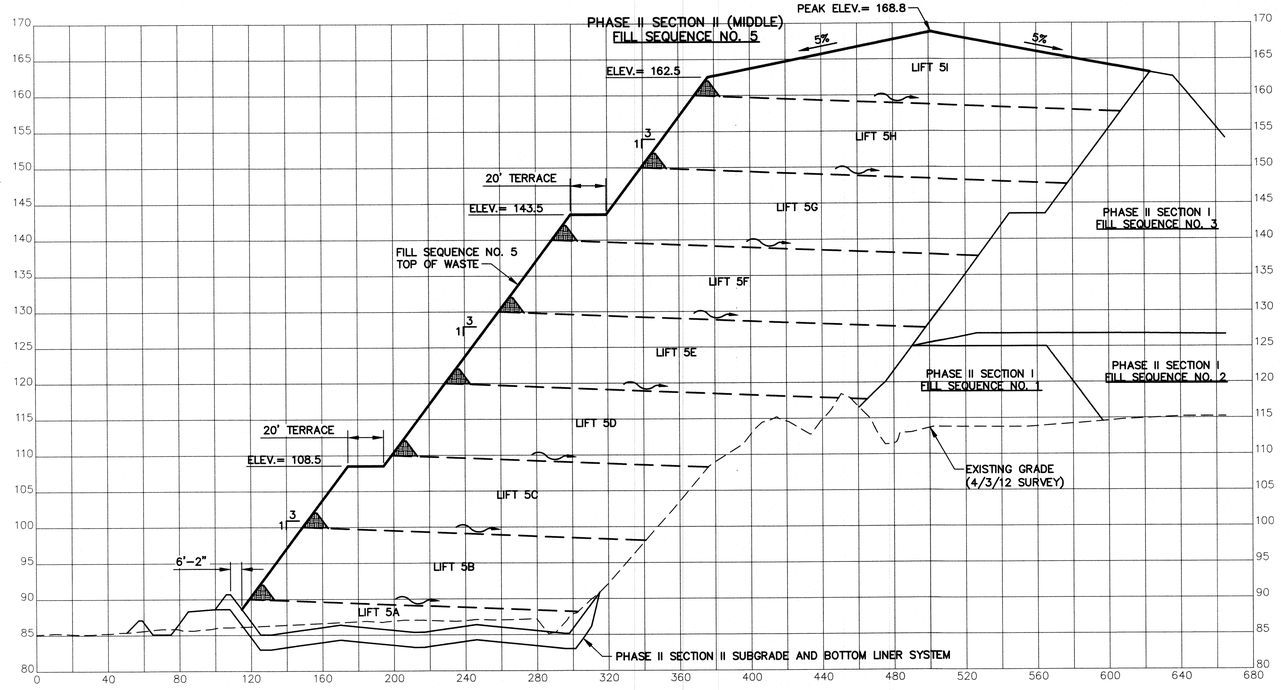
PROJ. NO. 09199033.23
DSN. BY: SDA
CHK. BY: SRF
DSK. BY: SRF
Q/A RVW. BY: CEH
APP. BY: SRF

CADD FILE: 993323SECTIONS2
DATE: APRIL 2013
SCALE: AS SHOWN
DRAWING NO.
35 of 37

G:\2009\09199033\23\Construction\993323SECTIONS2.dgn Mar 30, 2013 - 8:52am Kelsey Nimm Section G-H By: 993323



SECTION I
SCALE: 1" = 40' HORIZ. 30|36
1" = 10' VERT.



SECTION J
SCALE: 1" = 40' HORIZ. 30|36
1" = 10' VERT.

NOTE:

1. SLOPES SHALL NOT EXCEED 3H:1V AT ANY TIME, AFTER APPLICATION OF COVER SOILS. ALL FINAL SLOPES SHALL CONFORM TO THE DESIGN DIMENSIONS, SLOPES, AND ELEVATIONS.

STATE OF FLORIDA
STEVEN R. FISCHER
LICENSE NO. 59084
PROFESSIONAL ENGINEER

SHAWN M. HATHAWAY, P.E.
LICENSE NO. 58026

REV	DATE	DESCRIPTION	BY

DRAWING TITLE
PHASE II SECTION I AND II FILL SEQUENCE NO. 5 SECTIONS

PROJECT TITLE
HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813 621-0080 FAX 813 623-6757
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO.	DWN. BY:	CK'D. BY:	QA/QC BY:	APP. BY:
09199033.23	SDA	SRF	CEH	SRF

DSN. BY: SRF

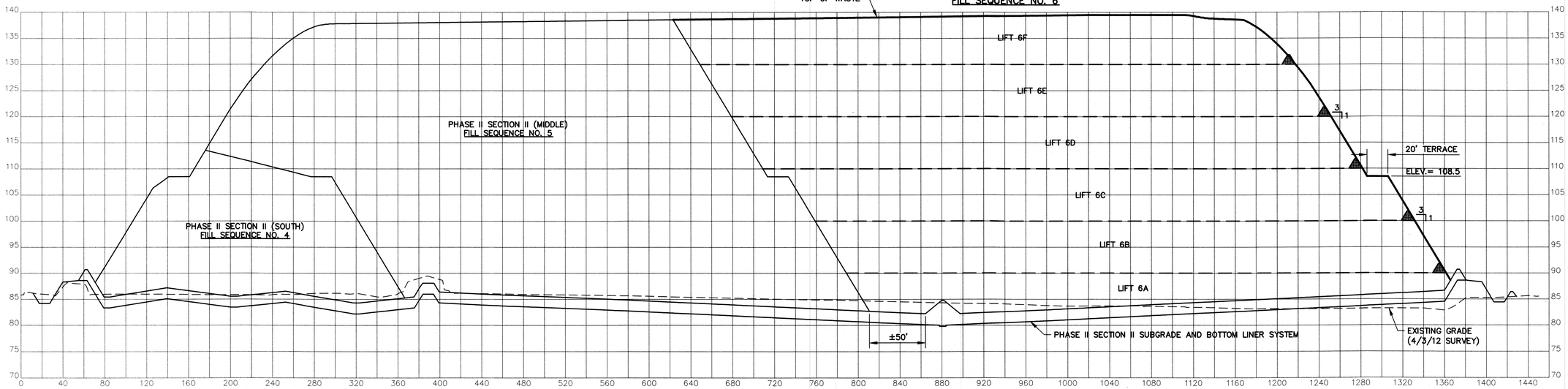
CADD FILE: 993323SECTIONS2

DATE: APRIL 2013

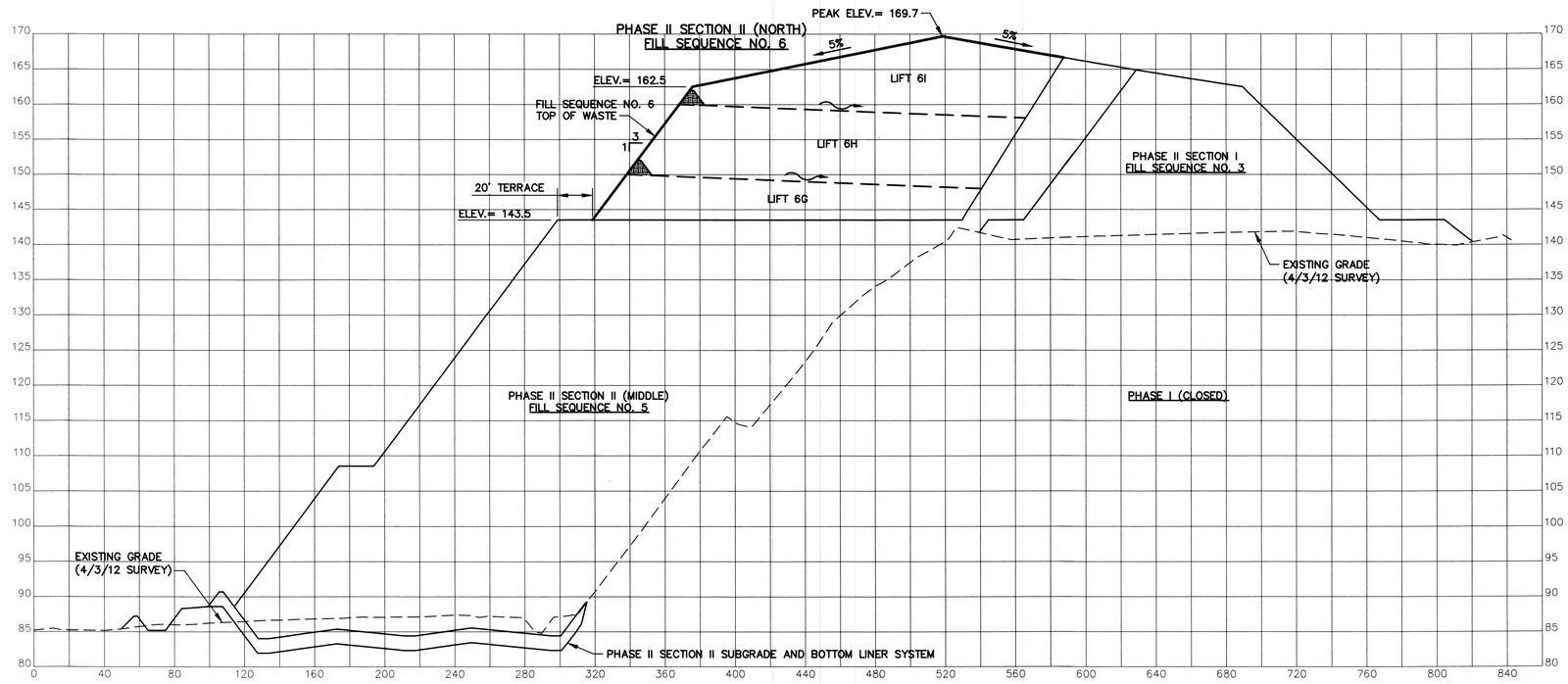
SCALE: AS SHOWN

DRAWING NO.
36 of **37**

G:\projects\Hardee\09199033.23\Construction\993323SECTIONS2.dwg Mar 30, 2013 - 8:42pm steve.fischer Xrefs: Sections II_v Rv 2012NS



SECTION K
SCALE: 1" = 50' HORIZ. 31|37
1" = 10' VERT.



SECTION L
SCALE: 1" = 40' HORIZ. 31|37
1" = 10' VERT.

NOTE:

1. SLOPES SHALL NOT EXCEED 3H:1V AT ANY TIME, AFTER APPLICATION OF COVER SOILS. ALL FINAL SLOPES SHALL CONFORM TO THE DESIGN DIMENSIONS, SLOPES, AND ELEVATIONS.

STATE OF FLORIDA SHAWN R. HARPER LICENSE NO. 58026 PROFESSIONAL ENGINEER

REV	DATE	DESCRIPTION	BY

DRAWING TITLE
PHASE II SECTION I AND II FILL SEQUENCE NO. 6 SECTIONS

PROJECT TITLE
HARDEE COUNTY LANDFILL PHASE II SECTION II EXPANSION CONSTRUCTION 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
813-621-0690 FAX 813-623-0259
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892

PROJ. NO:	DWN: BY:	CHK: BY:	APP: BY:
09199033.23	SDA	SRF	SRF
DSN: BY: SRF			

O/A RVW BY: CEH

CADD FILE: 993323SECTIONS2

DATE: APRIL 2013

SCALE: AS SHOWN

DRAWING NO.
37 of **37**

G:\PROJECTS\Hardee\09199033.23\Construction\993323SECTIONS2.dwg Mar 26, 2013 - 8:50am Layout Name: Sections K-L By: SRF