GENEAL NOTES

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION ORieur.
MAINTENANCE FACILITY

REMOVE EXISTING SURFACE INLET AND PIPE AS SHOWN

REMOVE 18' LF OF EXISTING STORM PIPE

REMOVE 65' LF OF EXISTING FENCE

REMOVE 75' LF OF EXISTING FENCE

REMOVE ALL OF EXISTING FENCE

DEMOLISH AND PROPERLY REMOVE 875' L.F. OF EXISTING CONCRETE FLUME (SOUTH OF ACCESS ROAD) IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS

EXISTING ACCESS ROAD TO BE RELOCATED

EXISTING CELL BOUNDARY

EXISTING CELL BOUNDARY

EXISTING CELL BOUNDARY

EXISTING CELL BOUNDARY

SEE MAGNOLIA ENGINEERING LLC PLANS THIS AREA NOVEMBER 2016
GENERAL NOTES:

1. SITE TOPOGRAPHY INSIDE THE LIMITS OF LINER WAS TAKEN FROM SURVEY PROVIDED BY DIVERSIFIED DESIGN & DRAFTING SERVICES, INC. AS ISSUED ON OCTOBER 7, 2015.

2. AERIAL TOPOGRAPHY OUTSIDE THE LIMITS OF LINER FROM AERIAL SURVEY PERFORMED BY PICKETT SURVEYING & PHOTOGRAMMETRY INC. ON JUNE 24, 2014.

3. CLASS I PHASE IIC AND PHASE IIB DISPOSAL AREA LIMITS OF LINER WAS TAKEN FROM PLANS DEVELOPED BY PBS&J DATED JULY 1992. CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING LINER EDGE PRIOR TO CONSTRUCTION COMMENCEMENT.

4. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION COMMENCEMENT.

5. THICKNESS OF EXISTING COVER VARIES. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THICKNESS OF EXISTING SOIL COVER. SUITABILITY OF SUBGRADE SHALL BE VERIFIED BY THE ENGINEER PRIOR TO GEOMEMBRANE DEPLOYMENT. MINIMUM ONE FOOT OF INTERMEDIATE COVER SHALL BE MAINTAINED PRIOR TO PLACING LINER.

6. ATTACHMENT A - LANDFILL CLOSURE BID PLANS
STORMWATER FLUME NO. 3

STORMWATER FLUME NO. 4

STORMWATER FLUME NO. 5

STORMWATER FLUME NO. 6

17'
STORMWATER FLUME NO. 10

NEW TYPE 'C' SURFACE INLET (PER FDOT INDEX NO. 232)
TOP EL=97.00
INV EL=TBD
EXISTING 36" CMP
NEW 75' LF OF 24" CMP
SLOPE @ 8.67%

STORMWATER FLUME NO. 11

NEW TYPE 'C' SURFACE INLET (PER FDOT INDEX NO. 232)
TOP EL=89.50
INV EL=84.50
NEW FLARED END SECTION
INV EL=78.00
(PER FDOT INDEX NO. 270)

ACCESS ROAD NO. 1

BID DOCUMENTS
C-I-P CANTILEVER RETAINING WALL
(PER FDOT INDEX NO. 6010)

LEACHATE PUMP STATION NO. 2

LEACHATE PUMP STATION NO. 1
EXISTING YARD WASTE AREA

3' RETAINING WALL
(PER FOOT INDEX NO. 6011-SCHEME 1)

PAVEMENT SECTION

SPREADER SWALE
4:1 SIDESLOPES
10' PERIMETER SILT FENCE
(PER FDOT INDEX NO. 102)

NOVEMBER 2016
AS SHOWN
07000-173-15

PLOT DATE 11/30/2016 11:01 AM BY LJB

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YARD WASTE AREA DETAILED GRADING PLAN

LEON COUNTY SOLID WASTE MANAGEMENT FACILITY
CLASS I AND CLASS III LANDFILL CLOSURE
TALLAHASSEE, LEON COUNTY, FLORIDA

PROJECT TITLE
LEON COUNTY SOLID WASTE MANAGEMENT FACILITY
CLASS I AND CLASS III LANDFILL CLOSURE
TALLAHASSEE, LEON COUNTY, FLORIDA

SCALE:
DATE:
DRAWING:

MAF

REVISION DESCRIPTION

ID

LJB

JDL

LJB

APPROVED BY

DESIGNED BY
DRAWN BY
CHECKED BY

By Date
LISA J. BAKER
FL PE NO. 74652

ATTACHMENT A - LANDFILL CLOSURE BID PLANS

BID DOCUMENTS
REFERRAL NOTES
1. SEE SHEET C0.01 FOR GENERAL NOTES, ABBREVIATIONS AND LEGEND.

CLASS III WEST NOTES:

1. TOPOGRAPHIC SURVEY WAS PROVIDED BY PICKETT SURVEYING AND PHOTOGRAMMETRY ON JUNE 23, 2014.

2. THE COUNTY PERFORMED AN EVALUATION OF THE FINAL COVER SYSTEM BY PERFORMANCE BORING DURING THE 7.6 ACRES OF THE LANDFILL CELLS. TESTING AIDS TO DETERMINE THE THICKNESS OF THE EXISTING COVER IS PROVIDED IN THE TABLE ABOVE.

3. CONTRACTOR OF THE EXISTING COVER SYSTEM IS RESPONSIBLE FOR DETERMINING THICKNESS OF EXISTING SOIL COVER. THE FINAL COVER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF 62-701.600., F.A.C.

4. THE COUNTY PERFORMED AN EVALUATION OF THE FINAL COVER SYSTEM BY PERFORMANCE BORING DURING THE 7.6 ACRES OF THE LANDFILL CELLS. TESTING AIDS TO DETERMINE THE THICKNESS OF THE EXISTING COVER IS PROVIDED IN THE TABLE ABOVE.

5. TOP GRADIENTS OF THE FINAL COVER SYSTEM SHALL BE DETERMINED TO PREVENT PONDING OR LOW SPOTS. THE FINAL COVER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF 62-701.600., F.A.C.

6. TOP GRADIENTS OF THE FINAL COVER SYSTEM SHALL BE DETERMINED TO PREVENT PONDING OR LOW SPOTS. THE FINAL COVER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF 62-701.600., F.A.C.

HORIZONTAL CONTROL POINT TABLE

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<th>Easting</th>
<th>Datum</th>
<th>Elevation</th>
<th>Contour</th>
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</tbody>
</table>

DRAINAGE PATTERNS WITH NO SLOPES GREATER THAN 3H:1V.

VEGETATED TO CONTROL EROSION AND WITH A SPECIES THAT IS RESPONSIBLE FOR DETERMINING THICKNESS OF EXISTING SOIL COVER. THE FINAL COVER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF 62-701.600., F.A.C.

3. THICKNESS OF THE EXISTING COVER VARIES. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THICKNESS OF EXISTING SOIL COVER. THE FINAL COVER SYSTEM SHALL BE INSTALL IN ACCORDANCE WITH THE REQUIREMENTS OF 62-701.600., F.A.C.
**Leon County Solid Waste Management Facility**

**CLOSURE CERTIFICATION OF INACTIVE LANDFILLS**

**REFERRAL NOTES:**

1. **BIB SHEET CE FOR GENERAL NOTES, ABBREVIATIONS AND LEGENDS.**

**CLASS III EAST NOTES:**

- **The City of Tallahassee and Leon County, FL, perform a visual inspection and photogrammetry of the final cover system, pursuant to Florida Administrative Code (F.A.C.) 62-701.600.**

5. **Excavation of the existing cover layer.** Contractor is responsible for excavation of the existing cover layer. The final cover system shall be installed in accordance with the requirements of the final cover system plans.

6. **Top gradients of the final cover system shall be designed to maximize runoff and minimize erosion.**

**HORIZONTAL CONTROL POINT TABLE:**

<table>
<thead>
<tr>
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<th>Bearing</th>
<th>Distance</th>
<th>Description</th>
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NOTE:
FPM = FILTER POINT MAT

STORMWATER FLUME PLAN VIEW

STORMWATER FLUME PROFILE VIEW

BOTTOM FLUME SECTION
LOCATED AT FPM SWALE NORTH

BOTTOM FLUME SECTION
LOCATED AT POND BOTTOM

BOTTOM FLUME SECTION
LOCATED AT EXISTING SWALE

TOP TIER FLUME / INTERMEDIATE TIER SECTION

TERRACE SWALE
TYPICAL INFILTRATION COLLECTION SYSTEM OUTLET SECTION

TRENCH DEPTH
3'

DISTANCE VARIES

SLOPE PER PLAN
SEE NOTE NO. 2

SOLID 12" GEOTEXTILE
WRAPPED PERFORATED CORRUGATED PIPE

NOTE:
1. UNLESS OTHERWISE NOTED FILTER POINT MAT SHALL BE PLACED ON SURFACE OF FINAL COVER AND ALL SLOPES SHALL CONFORM WITH SLOPES ON WHICH THE FILTER POINT MAT IS PLACED.
2. GEOTEXTILE WRAPPED PERFORATED CORRUGATED PIPE REQUIRED ON ALL TERRAIN CONSTRUCTION MOUNDS 3' TO FLUMES.
3. 6" SOLID HDPE PIPE

STORMWATER FLUME PROFILE VIEW

BOTTOM FLUME SECTION
LOCATED AT POND BOTTOM

SOLID 12" HDPE PIPE
WATER TIGHT TRANSITION FITTING
FLUSH TO EXISTING GRADING COVER

SOLID 12" EDGE OF DITCH

NOTE:
1. GENERAL TYPICAL FOR ALL INFILTRATION COLLECTION SYSTEM OUTLET.
2. PLACE GEOTEXTILE FILTER POINT MAT (GRADING COVER) AT A HEIGHT OF 3' ABOVE SWALE BOTTOM.
3. HDPE PIPE (TOP OR MIDDLE TIER)

TOP TIER FLUME

STORMWATER FLUME PLAN VIEW

STORMWATER FLUME PROFILE VIEW

BOTTOM FLUME SECTION
LOCATED AT FPM SWALE NORTH

BOTTOM FLUME SECTION
LOCATED AT POND BOTTOM

BOTTOM FLUME SECTION
LOCATED AT EXISTING SWALE

TOP TIER FLUME / INTERMEDIATE TIER SECTION

TERRACE SWALE
TYPICAL INFILTRATION COLLECTION SYSTEM OUTLET SECTION

TRENCH DEPTH
3'

DISTANCE VARIES

SLOPE PER PLAN
SEE NOTE NO. 2

SOLID 12" GEOTEXTILE
WRAPPED PERFORATED CORRUGATED Pipe

NOTE:
1. UNLESS OTHERWISE NOTED FILTER POINT MAT SHALL BE PLACED ON SURFACE OF FINAL COVER AND ALL SLOPES SHALL CONFORM WITH SLOPES ON WHICH THE FILTER POINT MAT IS PLACED.
2. GEOTEXTILE WRAPPED PERFORATED CORRUGATED PIPE REQUIRED ON ALL TERRAIN CONSTRUCTION MOUNDS 3' TO FLUMES.
3. 6" SOLID HDPE PIPE
N.T.S.

SECTION

TYPICAL TERRACE SWALE GRADING

LOW POINT
DEPTH = 2.5'

HIGH POINT
DEPTH = 2.5'

LOW POINT
DEPTH = 2.5'

PIPE PERFORATION

NOTE:

FPM = FILTER POINT MAT

LOW POINT
DEPTH = 2.5'

HIGH POINT
DEPTH = 2.5'

LOW POINT
DEPTH = 2.5'

HIGH POINT
DEPTH = 2.5'

SECTION

FPM SWALE SOUTH

ADJACENT TO EXISTING ACCESS ROAD

NOTE:

FPM = FILTER POINT MAT
NOTE:

FPM = FILTER POINT MAT

CELL II B AND CELL IIC FINAL COVER / BOTTOM LINER TIE-IN

- Double Sided 30 MIL (TEXTURED)
- Interim Cover 60 MIL (TEXTURED)
- 60 MIL LLDPE
- Protected Soil

EXISTING BOTTOM LINER SYSTEM

- Edge of Liner 4"X4" Post Painted White at 100' Intervals (SEE NOTE No. 2)
- Edge of Liner 4"X4" Post Painted White at 100' Intervals (SEE NOTE No. 1)
- Painted White at 100' Intervals

CELL I ID FINAL COVER / BOTTOM LINER TIE-IN

- 1. Carefully locate and expose bottom liner system by hand and extrusion weld final cover liner. Do not cut the primary geomembrane.
- 2. Liner limit marker shall not puncture geosynthetic components and extend at least 4 feet above final grade. Markers shall be sturdy and plumb.

EXISTING BOTTOM LINER SYSTEM

- Edge of Liner 4"X4" Post Painted White at 100' Intervals (SEE NOTE No. 2)
- Painted White at 100' Intervals

CLASS III SOUTH (NO BOTTOM LINER) FINAL COVER

- Layer of HDPE Geomembrane
- Geosynthetic Clay Liner
- Secondary Liner
- Primary Liner

TOE DRAIN

- HDPE Geomembrane
- Geosynthetic Clay Liner
- Secondary Liner
- Primary Liner

CLOSURE CONSTRUCTION DETAILS

LEON COUNTY SOLID WASTE MANAGEMENT FACILITY
CLASS I AND CLASS III LANDFILL CLOSURE
TALLAHASSEE, LEON COUNTY, FLORIDA

NOTE:

WASTE (GRADING LAYER)
- Textured
- Compacted Subgrade
- Geosynthetic Clay Liner
- FDOT Type 3 or 4 Aggregate

WASTE (GRADING LAYER)
- Textured
- Compacted Subgrade
- Geosynthetic Clay Liner
- FDOT Type 3 or 4 Aggregate

WASTE (GRADING LAYER)
- Textured
- Compacted Subgrade
- Geosynthetic Clay Liner
- FDOT Type 3 or 4 Aggregate

WASTE (GRADING LAYER)
- Textured
- Compacted Subgrade
- Geosynthetic Clay Liner
- FDOT Type 3 or 4 Aggregate

NOTE:

1. Carefully locate and expose bottom liner system by hand and extrusion weld final cover liner. Do not cut the primary geomembrane.
2. Liner limit marker shall not puncture geosynthetic components and extend at least 4 feet above final grade. Markers shall be sturdy and plumb.
TYPICAL LANDFILL PASSIVE GAS WELL

4' MIN DISTANCE

N.T.S.

TYPICAL VERTICAL GAS EXTRACTION WELL EXTENSION

WELL HEAD IS A CES LANDTEC ACCU-FLO WELLHEAD, MODEL 200, LFG&E PC1000 FX WELLHEAD OR APPROVED EQUAL, USE SCH 80 PVC WITH 2" PVC GATE VALVE, SLIDING COMPRESSION FITTING, AND ULTRA FLEX CONNECTIONS AND 48" HOSES

NOTES:
1. THE CONTRACTOR SHALL HAUL WASTE FROM THE EXCAVATION OF TRENCHES TO THE LANDFILL WORKING FACE FOR DISPOSAL.
2. SLOPE AT 5% MIN
3. THE CONTRACTOR SHALL ENSURE THAT ALL WASTE IS PROPERLY DISPOSED OF AND THAT NO WASTE IS LEFT AT THE EXCAVATION SITE.

TYPICAL PENETRATION BOOT DETAIL

1' MIN PENETRATION

WELL PENETRATION BOOT DETAILS

1. EXISTING ACTIVE GAS SYSTEM PER PBS&J PLANS DATED APRIL 2006.

LEON COUNTY SOLID WASTE MANAGEMENT FACILITY
CLASS I AND CLASS III LANDFILL CLOSURE
TALLAHASSEE, LEON COUNTY, FLORIDA

BY DATE LISA J. BAKER
APPROVED BY LJB

DESIGNED BY LJB
DRAWN BY JDL
CHECKED BY LJB

PROJECT NO.: C3.10
SCALE: MAF
DATE: 11/15/2016
DRAWING: 07000-173-15

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PLOT DATE 12/4/2016 5:55 PM BY LJB
EXIST POND #1 DATA:
CURRENT POND BOTTOM = 58.00'
SAND FILTER 3 x 100 LF
N C.O. INV = 59.37' INV. = 58.70'
S C.O. INV = 59.65' INV. = 58.52'

EXIST POND #4 DATA:
CURRENT POND BOTTOM = 50.00'
NE INV. = 53.60'
SW INV. = 53.64'

EXIST POND #2-3 DATA:
CURRENT POND BOTTOM = 58.00'
NO SAND FILTER FOUND
STRUCTURE HAS 3-8" PIPES
AT INV. 59.35' / 59.99' / 59.54'

BASE SURVEY PROVIDED BY:
NOBLES CONSULTING GROUP
JOB No: 4900.002
DATE: 04-12-2011
EXIST POND #2-3 DATA:
CURRENT POND BOTTOM = 58.00'
NO SAND FILTER FOUND
STRUCTURE HAS 3-8" PIPES
AT INV. 59.35' / 59.99' / 59.54'
PROPOSED POND BOTTOM = 61.5'
PROPOSED TOB = 66.5' WITH 12' WIDE BERM
PROPOSED 1000' LF BOTTOM SAND FILTER
(SEE SHEETS D-1 AND D-2)
NOTES:

1. EXIST RIP-RAP APRON TO BE EXTENDED APPROX. 26’ - 6” AS SHOWN. REPAIR / REPLACE ANY PORTION OF EXIST. RIP-RAP APRON DISTURBED DURING CONSTRUCTION AS NEEDED.

2. RIP-RAP SHALL BE CONCRETE RUBBLE OR BROKEN STONE MEETING THE REQUIREMENTS OF FDOT SECTION 530-2.1.3.1 RUBBLE (BANK AND SHORE PROTECTION).

3. THICKNESS OF RIP-RAP APRON SHALL BE AT LEAST 39”.

4. RIP-RAP TO BE UNDERLAIN BY FILTER FABRIC PER FDOT INDEX 514-3.4.

---

NOTES:

1. RIP-RAP APRON TO BE 36’ - 0” LONG AND 25’ - 0” WIDE AS SHOWN.

2. RIP-RAP SHALL BE CONCRETE RUBBLE OR BROKEN STONE MEETING THE REQUIREMENTS OF FDOT SECTION 530-2.1.3.1 RUBBLE (BANK AND SHORE PROTECTION).

3. THICKNESS OF RIP-RAP APRON SHALL BE AT LEAST 36”.

4. RIP-RAP TO BE UNDERLAIN BY FILTER FABRIC PER FDOT INDEX 514-3.4.

---

NOTES:

1. RIP-RAP APRON TO BE 4’ - 0” LONG AND 5’ - 8” WIDE AS SHOWN.

2. RIP-RAP SHALL BE CONCRETE RUBBLE OR BROKEN STONE MEETING THE REQUIREMENTS OF FDOT SECTION 530-2.1.3.2 RUBBLE (DITCH LINING).

3. THICKNESS OF RIP-RAP APRON SHALL BE AT LEAST 10”.

4. RIP-RAP TO BE UNDERLAIN BY FILTER FABRIC PER FDOT INDEX 514-3.4.