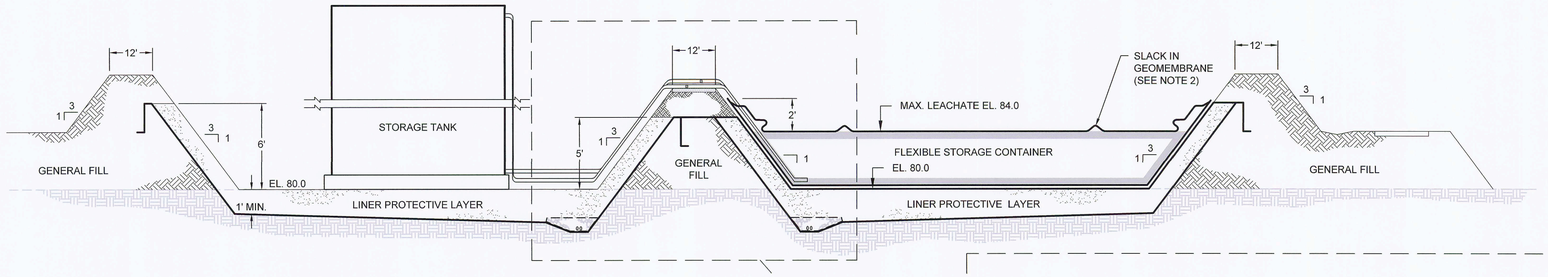
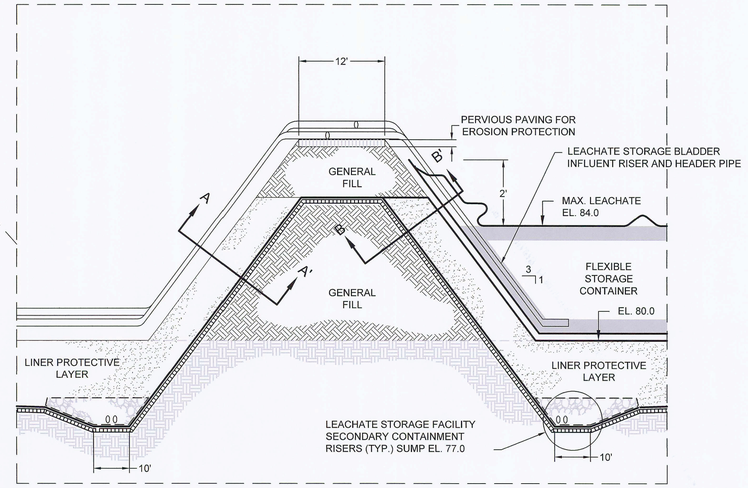
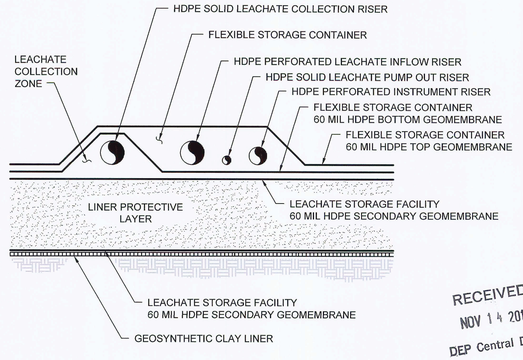


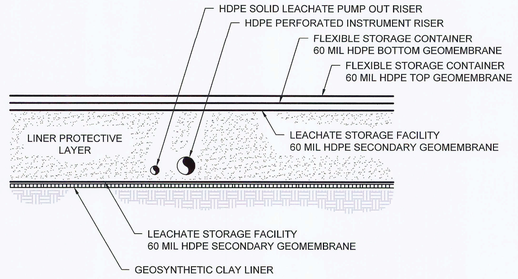

R 23 SECTION
LEACHATE STORAGE FACILITY
SCALE: 1" = 20' H, 1" = 5' V



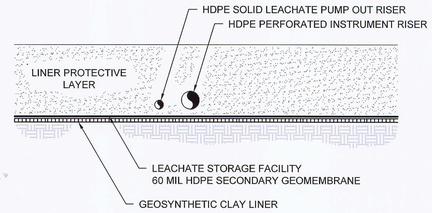




SECTION A-A'
SCALE: 1" = 2'

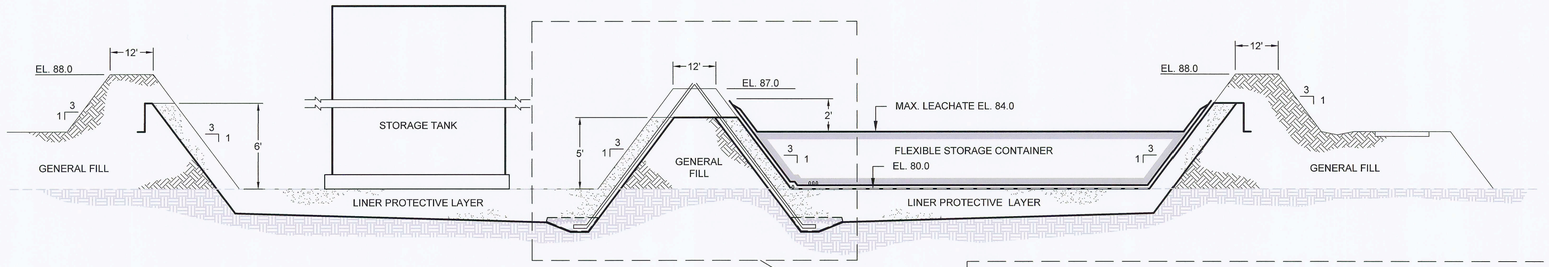




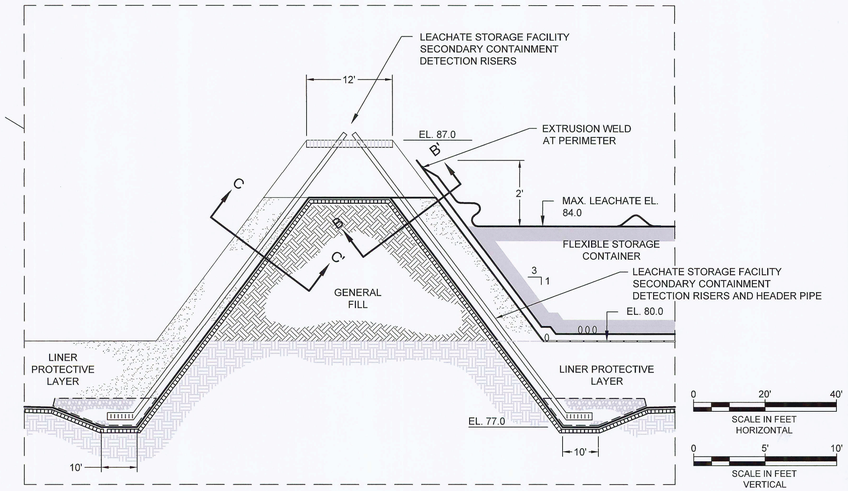

SECTION B-B'
SCALE: 1" = 2'




SECTION C-C'
SCALE: 1" = 2'




S 22 SECTION
LEACHATE STORAGE FACILITY SECTION
SCALE: 1" = 20' H, 1" = 5' V




0 20' 40'
SCALE IN FEET HORIZONTAL

0 5' 10'
SCALE IN FEET VERTICAL

PERMIT DRAWING

NOTES:

1. ELEVATIONS ON DETAILS REFER TO PERMANENT LEACHATE STORAGE TANK AREA. FOR INTERIM LEACHATE STORAGE TANK AREA BUILT FOR PHASE 1 AND PHASE 2 AS SHOWN ON SHEET 24 OF 50, ALL REFERENCED ELEVATIONS SHALL BE MAINTAINED.
2. TOP GEOMEMBRANE OF FLEXIBLE STORAGE CONTAINER SHALL EQUAL DIMENSIONS OF BOTTOM GEOMEMBRANE SUCH THAT BOTH GEOMEMBRANES LAY FLAT WHEN CONTAINER IS EMPTY.
3. DETAILS ARE SHOWN TO SCALE AS NOTED EXCEPT FOR THE GEOSYNTHETICS WHICH ARE SHOWN AT AN EXAGGERATED SCALE FOR CLARITY.

| REV | DATE | DESCRIPTION | DRN | APP |
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| 0 | NOV 2011 | ISSUED FOR FDEP APPROVAL | JWO | VMD |

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1501 OMNI WAY
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TEL: 407-891-3720 FAX: 407-891-3730

TITLE: LEACHATE STORAGE FACILITY CROSS SECTIONS

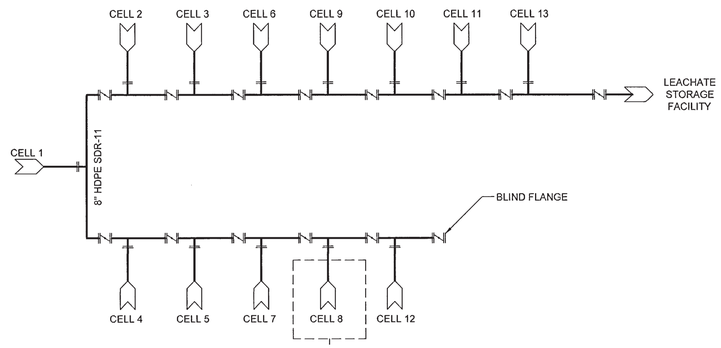
PROJECT: SOLID WASTE RENEWAL PERMIT



SITE: J.E.D. SOLID WASTE MANAGEMENT FACILITY

VICTOR M. DAMASCENO LICENSE No 72966 STATE OF FLORIDA PROFESSIONAL ENGINEER
VICTOR DAMASCENO LICENSE NO. 72966

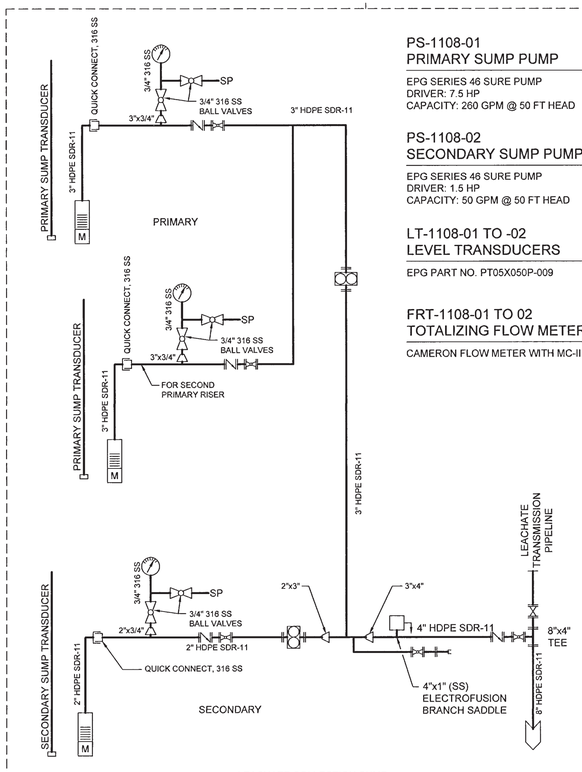
| | | | |
|---|---|---|---|
| DESIGN BY: | VMD/JDQ | DATE: | NOVEMBER 2011 |
| DRAWN BY: | JWO/CMV | PROJECT NO.: | FL1962.02 |
| CHECKED BY: | VMD | FILE: | FL1962.02P230 |
| REVIEWED BY: | JDQ | DRAWING NO.: | 23 OF 45 |
| APPROVED BY: | VMD | | |






## LEGEND

- FLANGED CONNECTION
- CONCENTRIC REDUCER
- GATE VALVE
- BALL VALVE
- CHECK VALVE
- AIR ELIMINATOR
- CAMLOCK CONNECTION
- QUICK RELEASE CONNECTION
- FLOW CONTINUATION
- FLOW METER
- PRESSURE GUAGE
- SUBMERSIBLE CENTRIFUGAL PUMP, MOTOR DRIVEN (PS)
- SAMPLE POINT




### PS-1108-01
### PRIMARY SUMP PUMP

EPG SERIES 46 SURE PUMP
DRIVER: 7.5 HP
CAPACITY: 260 GPM @ 50 FT HEAD

### PS-1108-02
### SECONDARY SUMP PUMP

EPG SERIES 46 SURE PUMP
DRIVER: 1.5 HP
CAPACITY: 50 GPM @ 50 FT HEAD

### LT-1108-01 TO -02
### LEVEL TRANSDUCERS

EPG PART NO. PT05X050P-009

### FRT-1108-01 TO 02
### TOTALIZING FLOW METERS

CAMERON FLOW METER WITH MC-II FLOW ANALYZER

LEACHATE COLLECTION SUMP
MECHANICAL FLOW DIAGRAM
SCALE: NTS

OPERATIONAL NOTES: (MECHANICAL FLOW DIAGRAM)

1. PUMP OPERATION IS CONTROLLED BY LEVEL TRANSDUCERS THAT SHALL BE MOUNTED IN ACCORDANCE WITH MANUFACTURES SPECIFICATIONS.
2. EACH PRIMARY LEACHATE SUMP WILL BE EQUIPPED WITH ONE LEVEL TRANSDUCER. THE LEVEL TRANSDUCERS WILL HAVE 3 SET POINTS. THE HIGH LEVEL SETPOINT WILL ACTIVATE THE SUMP PUMP. THE LOW LEVEL SET POINT WILL SHUT OFF THE SUMP PUMP. IF THE LEVEL OF LEACHATE IN THE PRIMARY LEACHATE SUMP REACHES THE ALARM LEVEL SWITCH, AN ALARM WILL BE ACTIVATED TO SIGNAL POTENTIAL PUMPING PROBLEMS WITHIN THE SUMP.
3. THE SECONDARY LEACHATE SUMP WILL ALSO BE EQUIPPED WITH ONE LEVEL TRANSDUCER. THE LEVEL TRANSDUCER WILL HAVE 3 SET POINTS. THE HIGH LEVEL SETPOINT WILL ACTIVATE THE SUMP PUMP. THE LOW LEVEL SET POINT WILL SHUT OFF THE SUMP PUMP. IF THE LEVEL OF LEACHATE IN THE SECONDARY LEACHATE SUMP REACHES THE ALARM LEVEL SWITCH, AN ALARM WILL BE ACTIVATED TO SIGNAL POTENTIAL PUMPING PROBLEMS WITHIN THE SUMP.
4. FLOW TOTALIZERS WILL RECORD THE AMOUNT OF LEACHATE PUMPED FROM THE PRIMARY AND SECONDARY SUMPS.

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AUTHORIZATION NUMBER: 4321

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1501 OMNI WAY
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TEL: 407-891-3720 FAX: 407-891-3730

TITLE: LEACHATE MANAGEMENT SYSTEM SCHEMATIC DIAGRAM

PROJECT: SOLID WASTE RENEWAL PERMIT

SITE: L.E.D. SOLID WASTE MANAGEMENT FACILITY



VICTOR M. DAMASCENO LICENSE No 72966 STATE OF FLORIDA PROFESSIONAL ENGINEER
SIGNATURE
DATE
VICTOR DAMASCENO - LICENSE NO. 72966

| | | | |
|---|---|---|---|
| DESIGN BY: | VMD/JDQ | DATE: | NOVEMBER 2011 |
| DRAWN BY: | JWO/CMV | PROJECT NO.: | FL1962.02 |
| CHECKED BY: | VMD | FILE: | FL1962.02P240 |
| REVIEWED BY: | JDQ | DRAWING NO.: | 24 OF 45 |
| APPROVED BY: | VMD | | |

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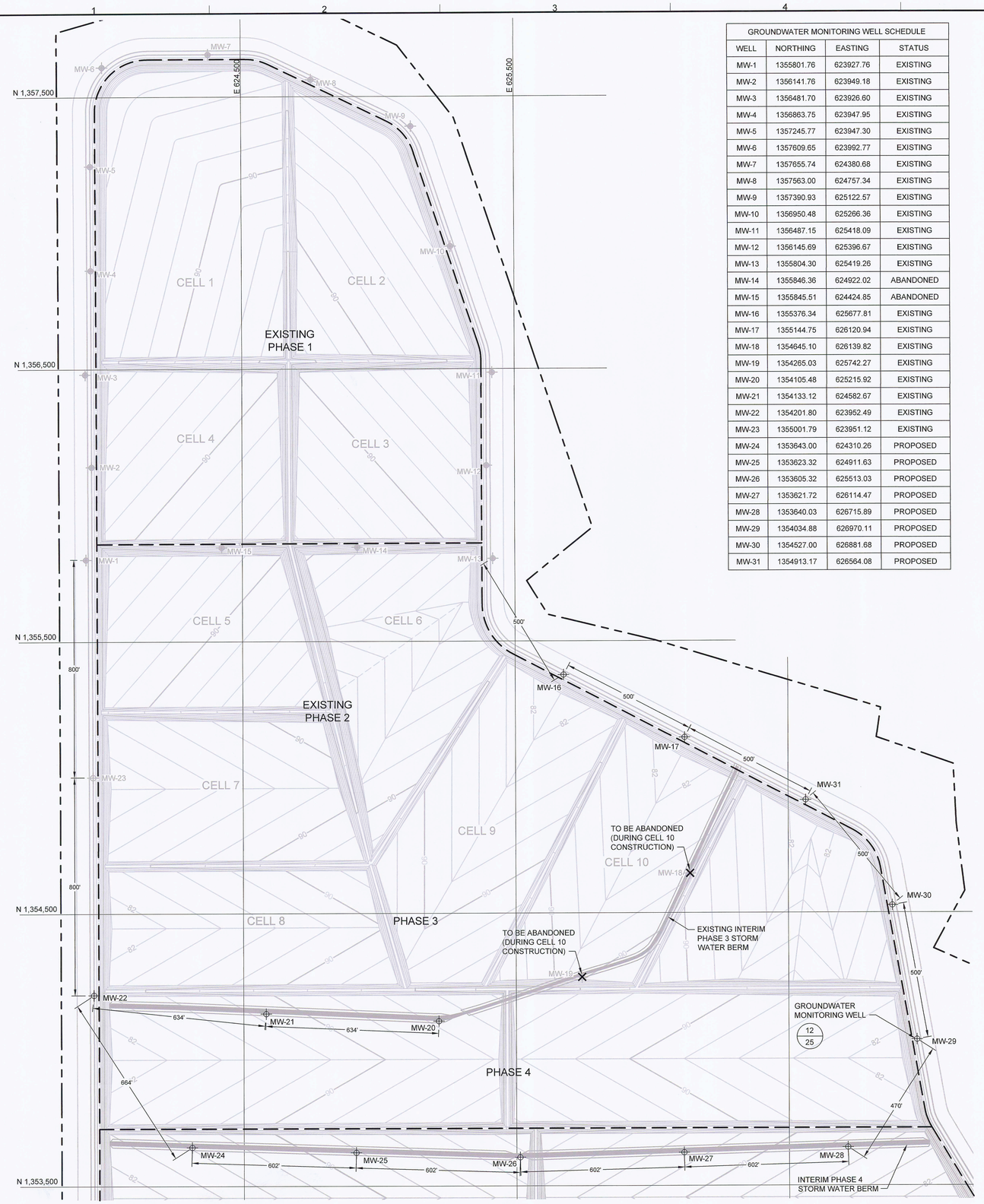
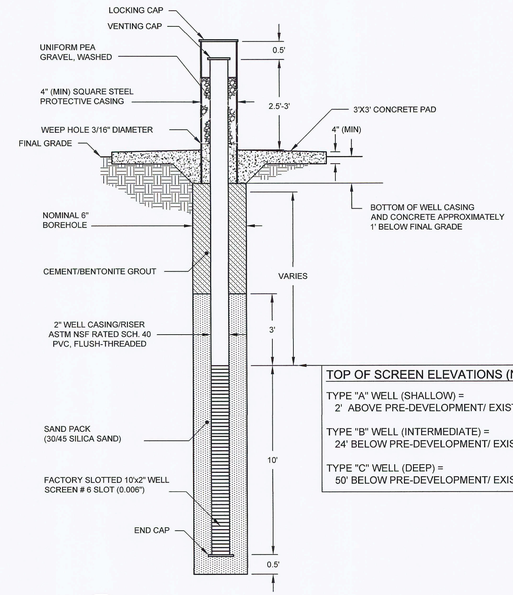



PHASES 1 THROUGH 4
GROUNDWATER MONITORING WELL LAYOUT

SCALE: 1" = 200'

| GROUNDWATER MONITORING WELL SCHEDULE | | | |
|---|---|---|---|
| WELL | NORTHING | EASTING | STATUS |
| MW-1 | 1355801.76 | 623927.76 | EXISTING |
| MW-2 | 1356141.76 | 623949.18 | EXISTING |
| MW-3 | 1356481.70 | 623926.60 | EXISTING |
| MW-4 | 1356863.75 | 623947.95 | EXISTING |
| MW-5 | 1357245.77 | 623947.30 | EXISTING |
| MW-6 | 1357609.65 | 623992.77 | EXISTING |
| MW-7 | 1357655.74 | 624380.68 | EXISTING |
| MW-8 | 1357563.00 | 624757.34 | EXISTING |
| MW-9 | 1357390.93 | 625122.57 | EXISTING |
| MW-10 | 1356950.48 | 625266.36 | EXISTING |
| MW-11 | 1356487.15 | 625418.09 | EXISTING |
| MW-12 | 1356145.69 | 625396.67 | EXISTING |
| MW-13 | 1355804.30 | 625419.26 | EXISTING |
| MW-14 | 1355846.36 | 624922.02 | ABANDONED |
| MW-15 | 1355845.51 | 624424.85 | ABANDONED |
| MW-16 | 1355376.34 | 625677.81 | EXISTING |
| MW-17 | 1355144.75 | 626120.94 | EXISTING |
| MW-18 | 1354645.10 | 626139.82 | EXISTING |
| MW-19 | 1354265.03 | 625742.27 | EXISTING |
| MW-20 | 1354105.48 | 625215.92 | EXISTING |
| MW-21 | 1354133.12 | 624582.67 | EXISTING |
| MW-22 | 1354201.80 | 623952.49 | EXISTING |
| MW-23 | 1355001.79 | 623951.12 | EXISTING |
| MW-24 | 1353643.00 | 624310.26 | PROPOSED |
| MW-25 | 1353623.32 | 624911.63 | PROPOSED |
| MW-26 | 1353605.32 | 625513.03 | PROPOSED |
| MW-27 | 1353621.72 | 626114.47 | PROPOSED |
| MW-28 | 1353640.03 | 626715.89 | PROPOSED |
| MW-29 | 1354034.88 | 626970.11 | PROPOSED |
| MW-30 | 1354527.00 | 626881.68 | PROPOSED |
| MW-31 | 1354913.17 | 626564.08 | PROPOSED |




TOP OF SCREEN ELEVATIONS (NOTE 3)

TYPE "A" WELL (SHALLOW) =
2' ABOVE PRE-DEVELOPMENT/ EXISTING GRADE

TYPE "B" WELL (INTERMEDIATE) =
24' BELOW PRE-DEVELOPMENT/ EXISTING GRADE

TYPE "C" WELL (DEEP) =
50' BELOW PRE-DEVELOPMENT/ EXISTING GRADE

12
25

DETAIL (TYPICAL)
GROUNDWATER MONITORING WELL

SCALE: NOT TO SCALE

XREF: FL1962.02X1206

N

0 200' 400'

SCALE IN FEET

LEGEND

| | |
|---|---|
| | PROPERTY BOUNDARY |
| 90 | SUBBASE ELEVATION (FEET) |
| MW-1 | EXISTING GROUNDWATER MONITORING WELL LOCATION |
| MW-16 | GROUNDWATER MONITORING WELL LOCATION |

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NOTES:

1. NORTHING AND EASTING COORDINATES SHOWN REPRESENT FLORIDA STATE PLANE EAST ZONE NORTH AMERICAN DATUM OF 1983 (NAD83).THE ELEVATIONS SHOWN REPRESENT NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29)(FEET).
2. THE PROPERTY BOUNDARY IS BASED ON A COMPOSITE BOUNDARY SURVEY PROVIDED BY JOHNSTON SURVEYING INC., KISSIMMEE FLORIDA, DATED AUGUST 12, 1999.
3. AT EACH MONITORING WELL LOCATION A THREE WELL CLUSTER WILL BE INSTALLED TO SHALLOW, INTERMEDIATE, AND DEEP ELEVATIONS. THESE WELLS WILL BE SPACED 5 FEET APART AND ARRANGED PARALLEL TO THE PERIMETER MAINTENANCE ROAD OR INTERCELL BERM ALIGNMENTS OR ON TOP OF THE INTERIM STORM WATER BERMS.

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AUTHORIZATION NUMBER: 4321

WSI Waste Services, Inc.
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730


TITLE: GROUNDWATER MONITORING NETWORK

PROJECT: SOLID WASTE RENEWAL PERMIT

SITE: SOLID WASTE MANAGEMENT FACILITY

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VICTOR M. DAMASCENO LICENSED No 72966 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/10 DATE

VICTOR DAMASCENO - LICENSE NO. 72966

| | | | |
|---|---|---|---|
| DESIGN BY: | VMD/JDQ | DATE: | NOVEMBER 2011 |
| DRAWN BY: | JWO/CMV | PROJECT NO.: | FL1962.02 |
| CHECKED BY: | VMD | FILE: | FL1962.02P250 |
| REVIEWED BY: | JDQ | DRAWING NO.: | 25 OF 45 |
| APPROVED BY: | VMD | | |

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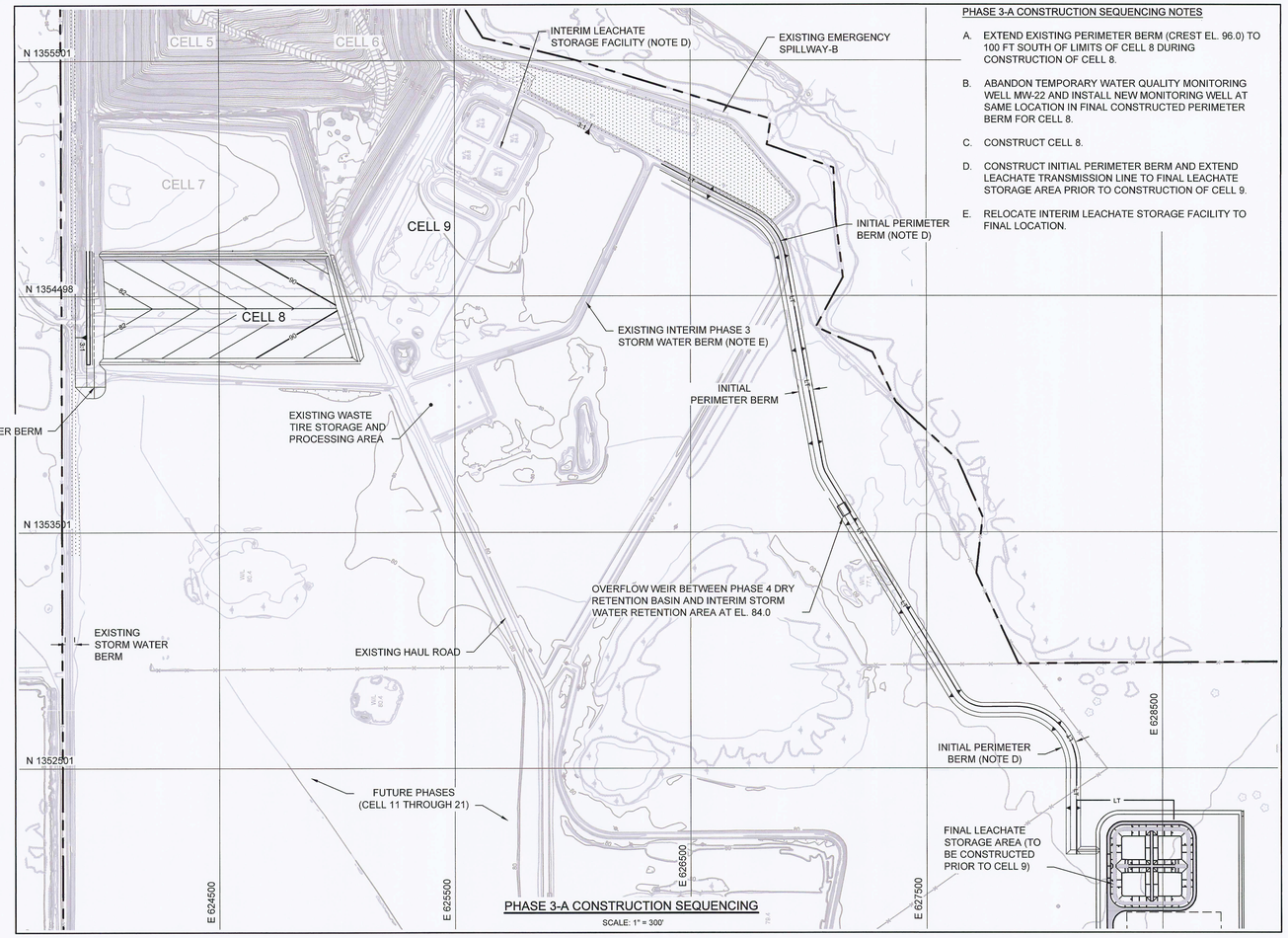


PHASE 3-A CONSTRUCTION SEQUENCING

SCALE: 1" = 300'

PHASE 3-A CONSTRUCTION SEQUENCING NOTES

A. EXTEND EXISTING PERIMETER BERM (CREST EL. 96.0) TO 100 FT SOUTH OF LIMITS OF CELL 8 DURING CONSTRUCTION OF CELL 8.

B. ABANDON TEMPORARY WATER QUALITY MONITORING WELL MW-22 AND INSTALL NEW MONITORING WELL AT SAME LOCATION IN FINAL CONSTRUCTED PERIMETER BERM FOR CELL 8.

C. CONSTRUCT CELL 8.

D. CONSTRUCT INITIAL PERIMETER BERM AND EXTEND LEACHATE TRANSMISSION LINE TO FINAL LEACHATE STORAGE AREA PRIOR TO CONSTRUCTION OF CELL 9.

E. RELOCATE INTERIM LEACHATE STORAGE FACILITY TO FINAL LOCATION.

N

0 300' 600'

SCALE IN FEET

LEGEND

- PROPERTY BOUNDARY
- 80 — EXISTING GROUND ELEVATION (FEET) (SEE NOTE 4)
- EXISTING FENCE
- 90 — SUBBASE ELEVATION (FEET)
- STORM WATER MANAGEMENT BASIN

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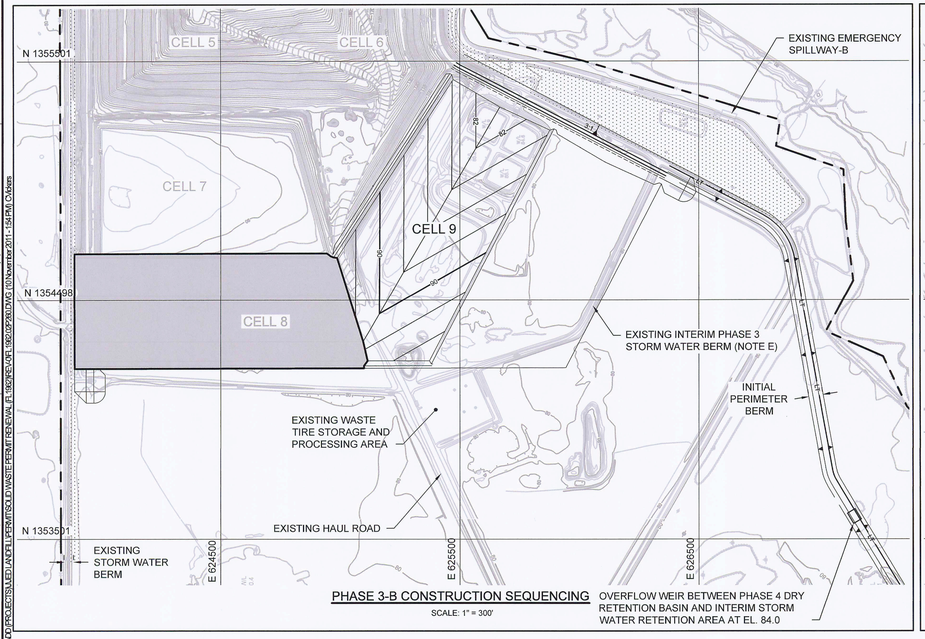
NOTES:

1. NORTHING AND EASTING COORDINATES SHOWN REPRESENT FLORIDA STATE PLANE EAST ZONE NORTH AMERICAN DATUM OF 1983 (NAD83).
2. THE ELEVATIONS SHOWN REPRESENT NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29)(FEET).
3. THE PROPERTY BOUNDARY BASED ON A COMPOSITE BOUNDARY SURVEY PROVIDED BY JOHNSTON SURVEYING INC., KISSIMMEE FLORIDA, DATED AUGUST 12, 1999.
4. TOPOGRAPHIC INFORMATION SHOWN ON THIS DRAWING WAS PROVIDED BY BASE MAPPING CO. LTD BASED ON AN AERIAL PHOTOGRAPH TAKEN ON 18 MAY 2011.
5. RUNOFF FROM THE LANDFILL WILL BE DIRECTED TO, RETAINED BY, AND INFILTRATED WITHIN THE CONSTRUCTED STORM WATER MANAGEMENT SYSTEM.
6. EXISTING STORM WATER MANAGEMENT SYSTEM FOR PHASE 3 HAS BEEN CONSTRUCTED IN ACCORDANCE WITH ERP49-0199752-004-EM AND APPROVED FOR OPERATIONAL PHASE BY THE FDEP.
7. DURING CELL CONSTRUCTION, CONTRACTOR STAGING AREAS WILL BE LOCATED IN ADJACENT FURTURE CELL FOOTPRINT.

PHASE 3-B CONSTRUCTION SEQUENCING NOTES

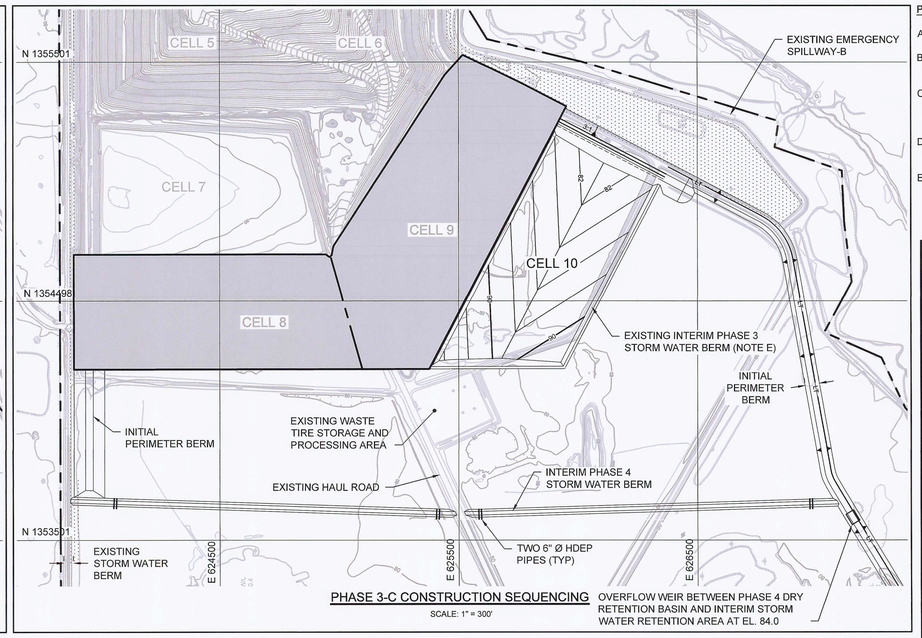
A. ABANDON TEMPORARY WATER QUALITY MONITORING WELL MW-16 AND INSTALL NEW MONITORING WELL AT SAME LOCATION IN FINAL CONSTRUCTED PERIMETER BERM FOR CELL 9.

B. CONSTRUCT CELL 9.




PHASE 3-B CONSTRUCTION SEQUENCING

SCALE: 1" = 300'




PHASE 3-C CONSTRUCTION SEQUENCING

SCALE: 1" = 300'

PHASE 3-C CONSTRUCTION SEQUENCING NOTES

A. OBTAIN ERP FOR PHASE 4 STORM WATER MANAGEMENT SYSTEM CONSTRUCTION.

B. CONSTRUCT PHASE 4 STORM WATER MANAGEMENT SYSTEM AND OBTAIN OPERATION APPROVAL.

C. ABANDON TEMPORARY WATER QUALITY MONITORING WELLS MW-18,19,20, AND 21 AT INTERIM PHASE 3 STORM WATER BERM. INSTALL NEW WATER QUALITY MONITORING WELLS MW-24 THROUGH MW-31 AT INTERMIN PHASE 4 STORM WATER BERM AND INITIAL PERIMETER BERM (SHEET 25).

D. CONSTRUCT CELL 10. REMOVE PHASE 3 STORM WATER BERM AS CELL CONSTRUCTION OCCURS.

E. ABANDON TEMPORARY WATER QUALITY MONITORING WELL MW-17 AND INSTALL NEW MONITORING WELL AT SAME LOCATION IN FINAL CONSTRUCTED PERIMETER BERM OF CELL 10.

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TEL: 407-891-3720 FAX: 407-891-3730


TITLE: PHASE 3 CONSTRUCTION SEQUENCING

PROJECT: SOLID WASTE RENEWAL PERMIT

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DEP Central Dist.

SITE: P.D. SOLID WASTE MANAGEMENT FACILITY

STATE OF FLORIDA
VICTOR M. DAMASCENO
No 72966
LICENSED PROFESSIONAL ENGINEER

11/10/11
DATE

VICTOR DAMASCENO - LICENSE NO. 72966

| | | | |
|---|---|---|---|
| DESIGN BY: | VMD/JDQ | DATE: | NOVEMBER 2011 |
| DRAWN BY: | JWO/CMV | PROJECT NO.: | FL1962.02 |
| CHECKED BY: | VMD | FILE: | FL1962.02P260 |
| REVIEWED BY: | JDQ | DRAWING NO.: | |
| APPROVED BY: | VMD | | 26 OF 45 |

PERMIT DRAWING

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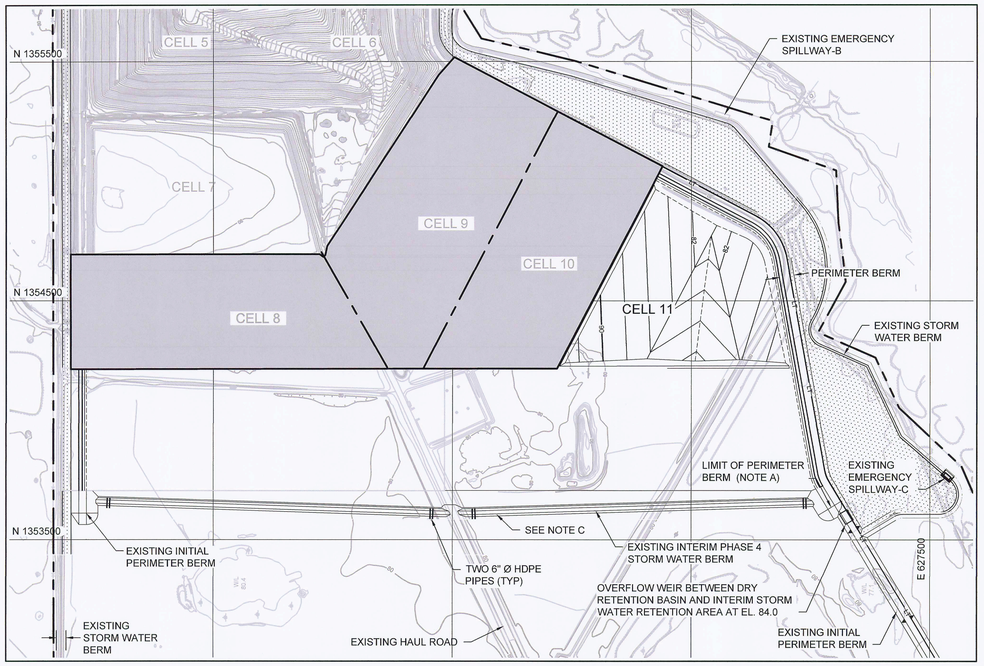



PHASE 4-A CONSTRUCTION SEQUENCING

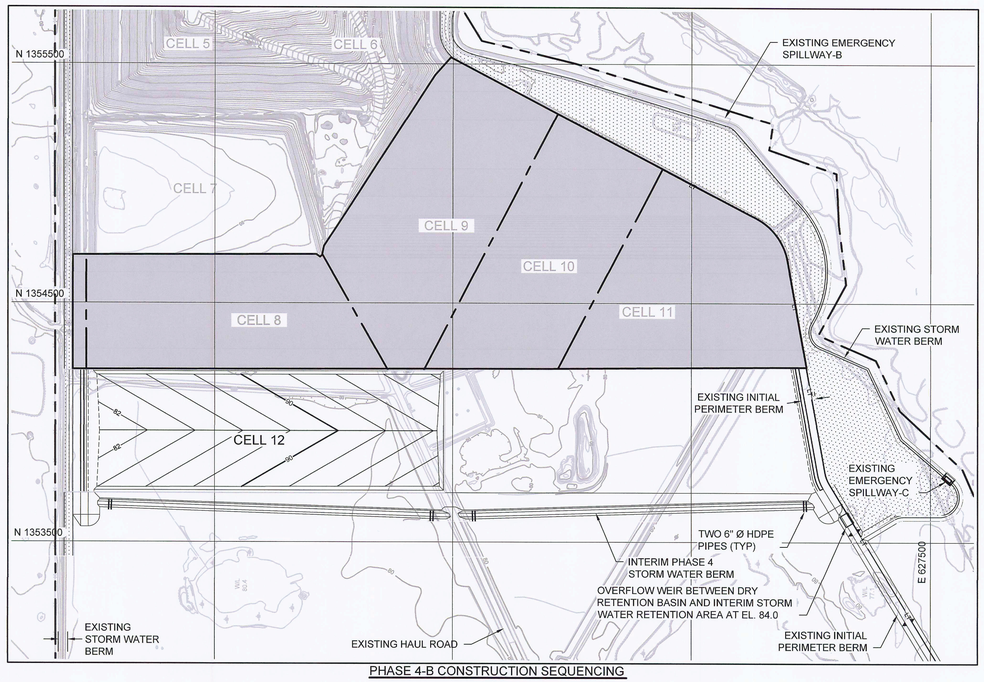
SCALE: 1" = 300'

PHASE 4-A CONSTRUCTION SEQUENCING NOTES

A. EXTEND EXISTING PERIMETER BERM (CREST EL. 96.0) TO 100 FT SOUTH OF LIMITS OF CELL 11 DURING CONSTRUCTION OF CELL 11.

B. CONSTRUCT CELL 11.

C. ABANDON TEMPORARY WATER QUALITY MONITORING WELLS MW-30 AND 31, AND INSTALL NEW MONITORING WELLS AT SAME LOCATION IN FINAL CONSTRUCTED PERIMETER BERM FOR CELL 11.




PHASE 4-B CONSTRUCTION SEQUENCING

SCALE: 1" = 300'

PHASE 4-B CONSTRUCTION SEQUENCING NOTES

A. RELOCATE WASTE TIRE STORAGE AND PROCESSING AREA PRIOR TO BEGINNING CELL 12 CONSTRUCTION (NEW LOCATION TO BE DETERMINED PRIOR TO RELOCATION).

B. EXTEND EXISTING PERIMETER BERM TO 100 FT SOUTH OF LIMITS OF CELL 12 DURING CONSTRUCTION OF CELL 12.

C. CONSTRUCT CELL 12.

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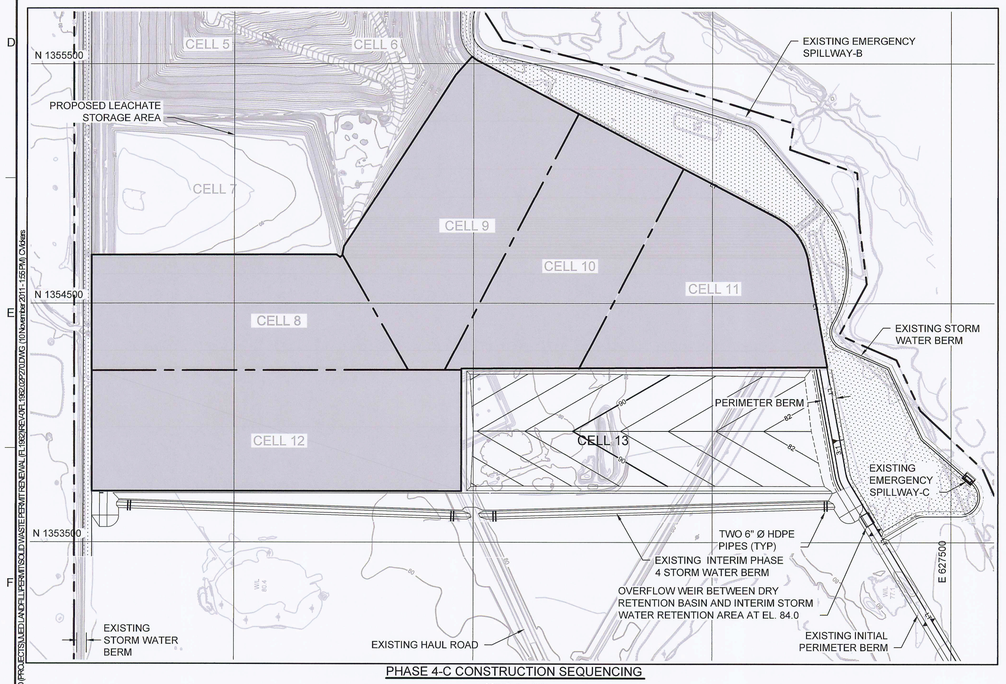


PHASE 4-C CONSTRUCTION SEQUENCING

SCALE: 1" = 300'

PHASE 4-C CONSTRUCTION SEQUENCING NOTES

A. EXTEND EXISTING PERIMETER BERM TO 100FT SOUTH OF LIMITS OF CELL 13 DURING CONSTRUCTION OF CELL 13.

B. CONSTRUCT CELL 13.

N

0 300' 600'

SCALE IN FEET

LEGEND

- PROPERTY BOUNDARY
- 80 EXISTING GROUND ELEVATION (FEET) (SEE NOTE 4)
- EXISTING FENCE
- 90 STORM WATER MANAGEMENT BASIN
- PROPOSED SUBBASE ELEVATION (FEET)

NOTES:

1. NORTHING AND EASTING COORDINATES SHOWN REPRESENT FLORIDA STATE PLANE EAST ZONE NORTH AMERICAN DATUM OF 1983 (NAD83).
2. THE ELEVATIONS SHOWN REPRESENT NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29)(FEET).
3. THE PROPERTY BOUNDARY BASED ON A COMPOSITE BOUNDARY SURVEY PROVIDED BY JOHNSTON SURVEYING INC., KISSIMMEE FLORIDA, DATED AUGUST 12, 1999.
4. TOPOGRAPHIC INFORMATION SHOWN ON THIS DRAWING WAS PROVIDED BY BASE MAPPING CO. LTD BASED ON AN AERIAL PHOTOGRAPH TAKEN ON 18 MAY 2011.
5. RUNOFF FROM THE LANDFILL WILL BE DIRECTED TO, RETAINED BY, AND INFILTRATED WITHIN THE CONSTRUCTED STORM WATER MANAGEMENT SYSTEM.
6. DURING CELL CONSTRUCTION, CONTRACTOR STAGING AREAS WILL BE LOCATED IN ADJACENT FURTURE CELL FOOTPRINT.

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AUTHORIZATION NUMBER: 4321

WSI Waste Services, Inc.
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730


TITLE: PHASE 4 CONSTRUCTION SEQUENCING

PROJECT: SOLID WASTE RENEWAL PERMIT

SITE: SOLID WASTE MANAGEMENT FACILITY

RECEIVED
NOV 14 2011
DEP Central Dist.

VICTOR M. DAMASCENO LICENSE No 72966 STATE OF FLORIDA PROFESSIONAL ENGINEER

11/10/11
DATE

VICTOR DAMASCENO - LICENSE NO. 72966

| | | | |
|---|---|---|---|
| DESIGN BY: | VMD/JDQ | DATE: | NOVEMBER 2011 |
| DRAWN BY: | JWO/CMV | PROJECT NO.: | FL1962.02 |
| CHECKED BY: | VMD | FILE: | FL1962.02P270 |
| REVIEWED BY: | JDQ | DRAWING NO.: | |
| APPROVED BY: | VMD | | 27 OF 45 |

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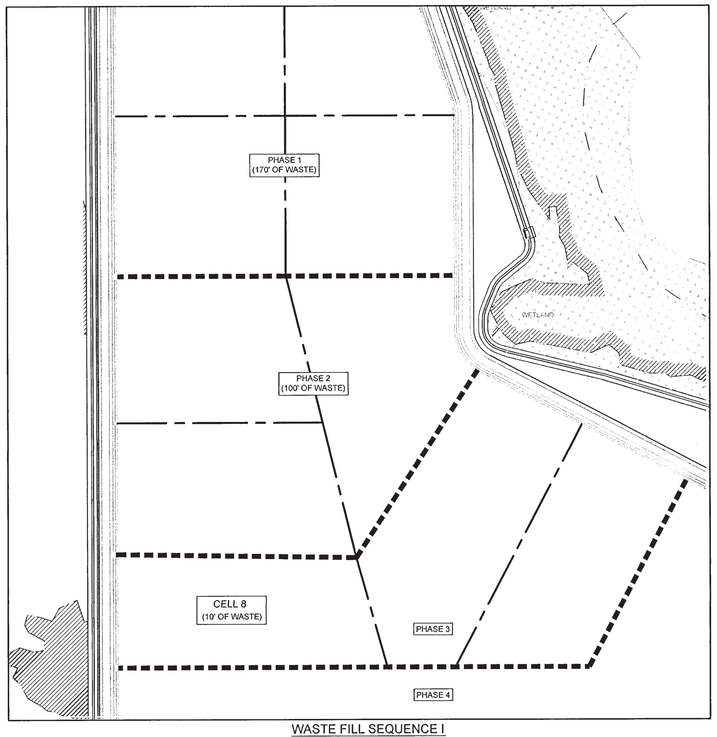
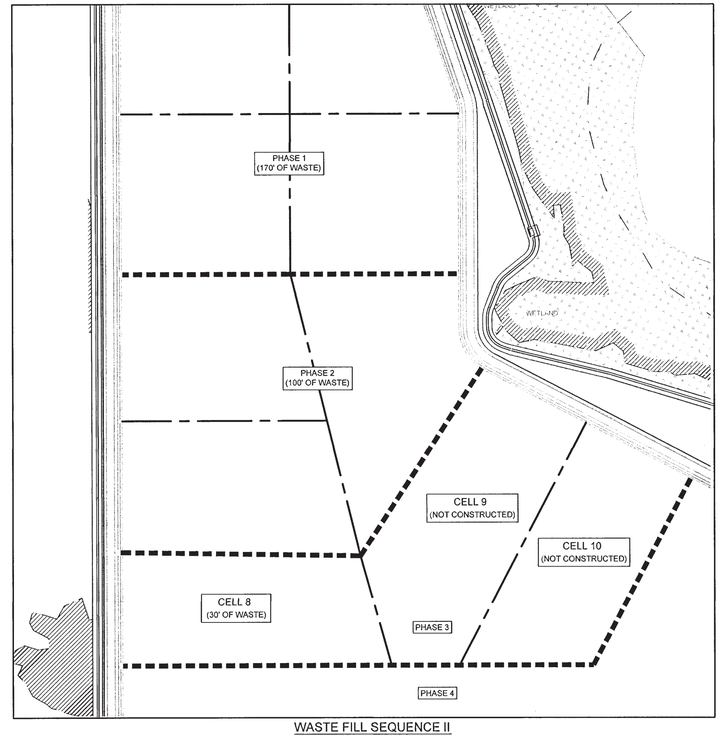


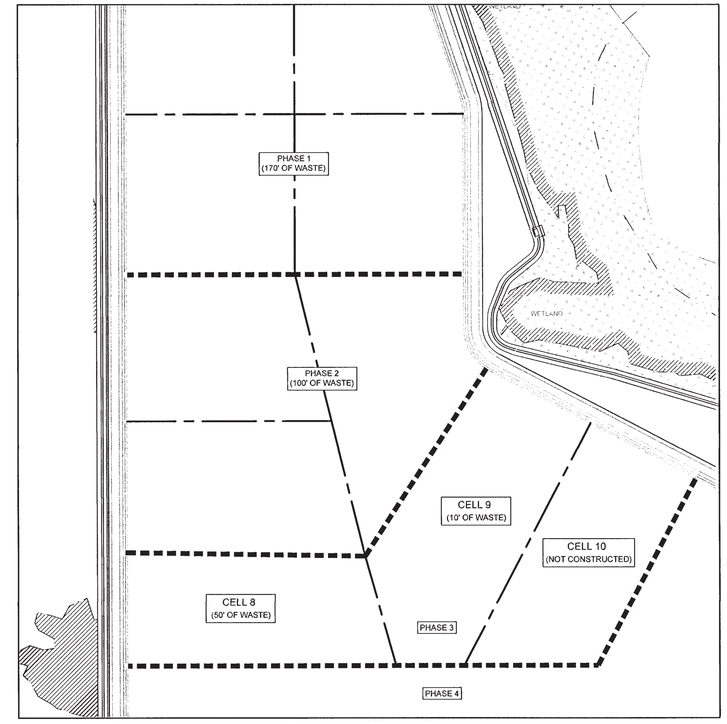

WASTE FILL SEQUENCE I

SCALE: 1" = 300'



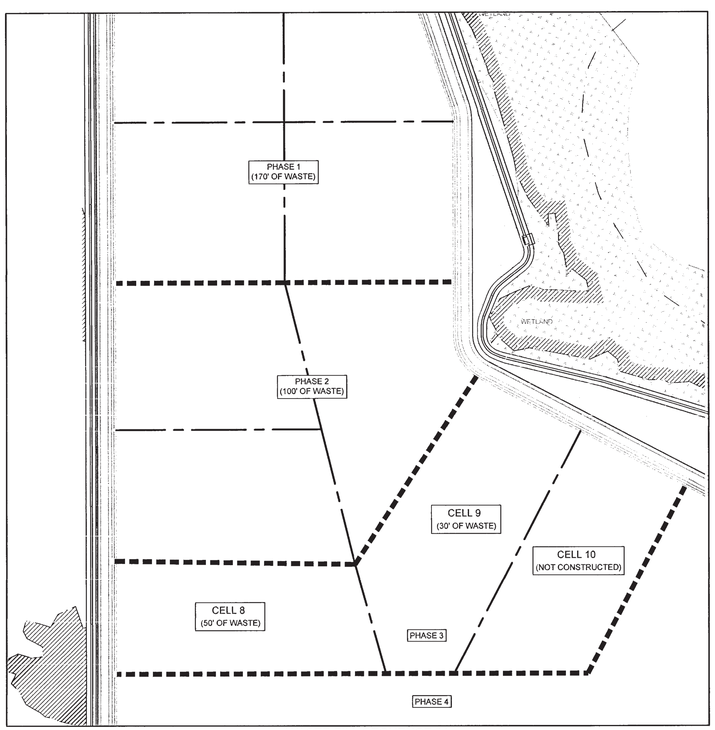

WASTE FILL SEQUENCE II

SCALE: 1" = 300'



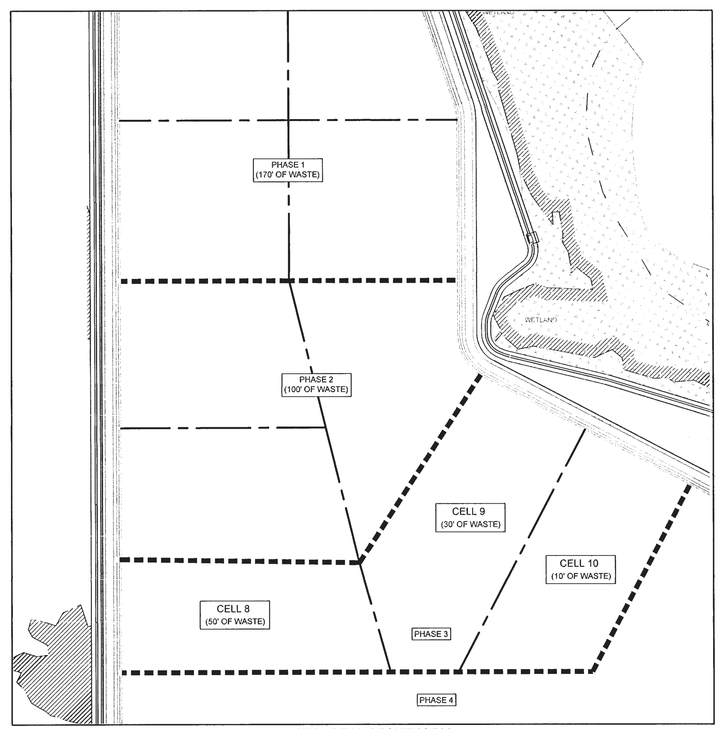

WASTE FILL SEQUENCE III

SCALE: 1" = 300'




WASTE FILL SEQUENCE IV

SCALE: 1" = 300'




WASTE FILL SEQUENCE V

SCALE: 1" = 300'

N

0 300' 600'

SCALE IN FEET

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NOTES:

1. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE A CONCEPTUAL WASTE FILLING SEQUENCE FOR PHASES 1 - 4.
2. WASTE HEIGHTS AND SLOPES WILL BE ADJUSTED BY THE LANDFILL SITE MANAGER TO PROVIDE EFFICIENT ACCESS TO THE WORKING FACE AND TO PROMOTE SURFACE WATER RUNOFF FROM AREAS UNDER INTERMEDIATE COVER.
3. EXPOSED WASTE AT THE WORKING FACE AND OTHER AREAS UNDER INITIAL COVER WILL BE SLOPED AND MAINTAINED TO INFILTRATE PRECIPITATION WITHOUT RUNOFF.
4. WASTE THICKNESS SPECIFIED IS BASED ON ESTIMATED MAXIMUM CELL / PHASE THICKNESS.

| REV | DATE | DESCRIPTION | DRN | APP |
|---|---|---|---|---|
| 0 | NOV 2011 | ISSUED FOR FDEP APPROVAL | JWO | VMD |

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0990 - FX:813.558.9726
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| CHECKED BY: | VMD | FILE: | FL1962.02P280 |
| REVIEWED BY: | JDQ | DRAWING NO.: | |
| APPROVED BY: | VMD | 28 OF 45 | |

PERMIT DRAWING