

PROPERTY OWNER

BAY COUNTY - SOLID WASTE DIVISION
311411 LANDFILL ROAD
PANAMA CITY BEACH, FLORIDA 32413



HDR ENGINEERING, INC.
76 SOUTH LAURA STREET, SUITE 1600
JACKSONVILLE, FL 32202
COA# 4213

Addendum #2 to RFP No. 19-33
Design Build Bid Drawings For:

Steelfield Road Landfill Expansion

Project No.
10143564

Bay County, Florida
March 2019

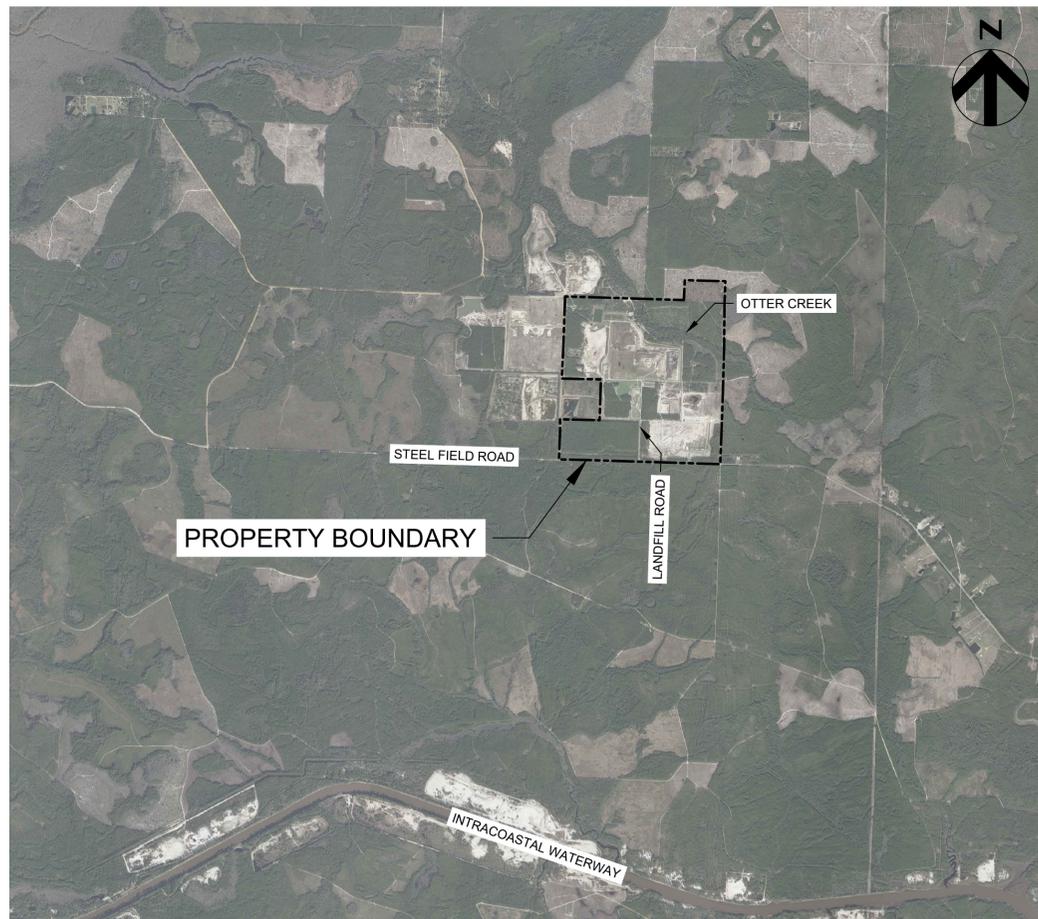
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VICINITY MAP

3000 0 3000 6000
SCALE IN FEET



GENERAL NOTES

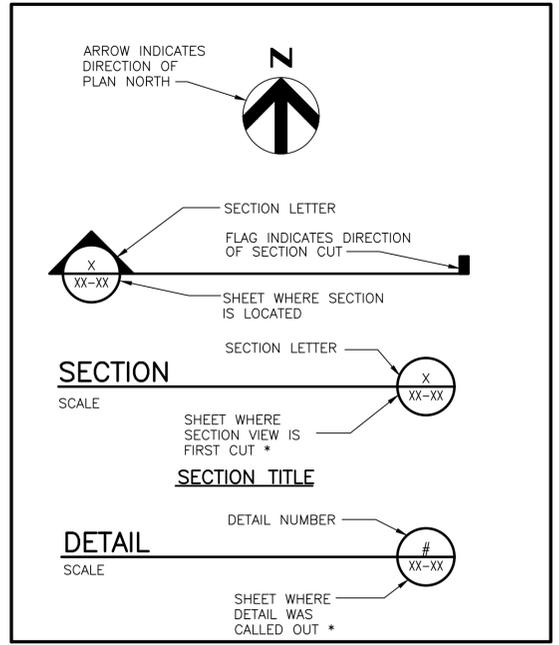
- 1. ALL ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988, UNLESS OTHERWISE NOTED. HDR HAS CONVERTED HISTORICAL VERTICAL DATUMS TO THE BEST OF OUR KNOWLEDGE. DBTS SHALL USE EXTREME PRECAUTIONS DURING CONSTRUCTION WHEN USING THIS INFORMATION.
2. HORIZONTAL DATUM IS BASED ON NAD 83/90 FLORIDA STATE PLANES, NORTH ZONE, US SURVEY FEET. SOME OF THE HISTORICAL DATA SHOWN IN THE PLANS WAS DIGITIZED BASED ON AS-BUILTS, RECORD DRAWINGS, OR PERMIT DRAWINGS AND SHALL BE CONSIDERED APPROXIMATE WHEN LAYING OUT.
3. AERIAL TOPOGRAPHIC SURVEY PERFORMED BY BAY COUNTY PUBLIC WORKS DEPARTMENT, DATED 03/21/17 AND 02/22/18. AERIAL IMAGERY OBTAINED FROM FLORIDA DEPARTMENT OF TRANSPORTATION WEBSITE, DATED 2016.
4. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE DBT SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) AFFECTING THEIR OWN WORK.
5. THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE DBT IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL DBTS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS SHALL BE BASED.
6. THE DBT SHALL BE AWARE THAT THERE MAY BE SOME UTILITY CONFLICTS. IT SHALL BE THE DBT'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
7. FIELD CONDITIONS MAY NECESSITATE SLIGHT ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED CONSTRUCTION TO AVOID OBSTACLES, AS ORDERED BY THE OWNER. THE DBT SHALL CONSTRUCT THE PROPOSED FACILITIES TO THE ORDERED DEVIATION WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
8. THE DBT SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES IN ORDER TO PERMIT THE LOCATION OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION. CONTACT UTILITIES NOTIFICATION CENTER AT 1-800-432-4470.
9. THE DBT SHALL REPLACE ALL EXISTING PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, MAILBOXES, GRASSING, SIGNS, AND OTHER IMPROVEMENTS WITH SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY THE OWNER WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
10. THE DBT SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION AND SHALL USE WHATEVER MEANS NECESSARY TO MANAGE STORMWATER SUCH THAT THE IMPACT TO CONSTRUCTION IS MINIMIZED. THE DBT SHALL BE RESPONSIBLE FOR REPAIR OF DAMAGE DUE TO STORMWATER.
11. THE DBT SHALL PROVIDE WARNING SIGNALS, SIGNS, LIGHTS, BARRICADES, FLAGMEN, ETC. IN ACCORDANCE WITH OSHA, DOT, AND OTHER APPLICABLE REGULATORY REQUIREMENTS AND AS OTHERWISE NECESSARY TO PROVIDE FOR SITE SAFETY DURING CONSTRUCTION.
12. THE DBT SHALL NOTIFY THE OWNER IMMEDIATELY WHEN CONFLICTS BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED.
13. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH EXISTING COUNTY DESIGN AND CONSTRUCTION STANDARDS UNLESS THOSE STANDARDS CONFLICT WITH THESE CONTRACT DOCUMENTS IN WHICH CASE THESE CONTRACT DOCUMENTS SHALL GOVERN. SUCH CONFLICTS SHALL BE BROUGHT TO THE OWNER'S ATTENTION IMMEDIATELY.
14. ALL PIPING SHALL HAVE A MINIMUM COVER OF 30" BELOW FINISHED GRADE UNLESS OTHERWISE NOTED.
15. WHERE IT IS NECESSARY TO DEFLECT PRESSURE PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDED DEFLECTION ANGLE. MINIMUM PIPE RADIUS SHALL BE 25% IN EXCESS OF THE MANUFACTURER'S RECOMMENDED MINIMUM RADIUS.
16. THE DBT SHALL PREVENT DISTURBANCE TO AND UNDERMINING OF ADJACENT STRUCTURES, SLABS, PIPING, AND OTHER UTILITIES OR FACILITIES DURING CONSTRUCTION.
17. THE DBT SHALL VERIFY ALL CLEARANCES PRIOR TO CONSTRUCTION.
18. ALL PIPING SHALL BE PROPERLY SUPPORTED. ALL PIPING WHICH WILL BE PRESSURIZED DURING OPERATION SHALL BE PROPERLY RESTRAINED.
19. FACILITIES PROVIDED UNDER THIS PROJECT SHALL BE CLEANED AT THE CLOSE OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
20. THE DBT SHALL PROVIDE AND MAINTAIN ENVIRONMENTAL PROTECTION DURING THE LIFE OF THE CONTRACT, INCLUDING THE WARRANTY PERIOD. THE DBT'S OPERATIONS SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING THOSE PERTAINING TO WATER, AIR, SOLID WASTE, HAZARDOUS WASTE MATERIALS, OILY SUBSTANCES, AND NOISE POLLUTION. THE DBT SHALL IMPLEMENT EROSION AND SEDIMENTATION CONTROL MEASURES AS NECESSARY TO COMPLY WITH THESE REGULATIONS FOR BOTH TEMPORARY AND PERMANENT CONSTRUCTION.
21. ALL PIPING AND FITTINGS SHALL BE HDPE SDR 11 UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS.
22. IT IS THE RESPONSIBILITY OF THE DBT TO BECOME FAMILIAR WITH THE OSHA EXCAVATION SAFETY STANDARDS AND TO ABIDE BY THEM AS COVERED UNDER THE FLORIDA TRENCH SAFETY ACT (LAWS OF FLORIDA 90-96) EFFECTIVE OCTOBER 1, 1990.

- 23. THE DBT SHALL PROVIDE TO THE OWNER A WRITTEN STATEMENT PRIOR TO BEGINNING WORK THAT HE/SHE WILL COMPLY WITH APPLICABLE TRENCH SAFETY STANDARDS.
24. THE DBT SHALL TAKE WHATEVER MEANS NECESSARY TO PROTECT MONITOR WELLS FROM DAMAGE DURING CONSTRUCTION. THE DBT SHALL REPAIR OR REPLACE MONITORING WELLS DAMAGED DURING CONSTRUCTION WITH LIKE MATERIALS AND CONSTRUCTION METHODS AS APPROVED BY THE OWNER AND FDEP WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME. THE DBT SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD DAMAGE OCCUR TO ANY MONITOR WELLS.
25. THE DBT SHALL COMPLY WITH ALL TERMS, CONDITIONS, AND REQUIREMENTS OF ALL APPLICABLE PERMITS, INCLUDING FDEP AND WATER MANAGEMENT DISTRICT PERMITS FOR THE SITE.
26. THE DBT SHALL BE AWARE THAT THE CONSTRUCTION SITE IS ADJACENT AND CONNECTS TO ACTIVE LANDFILL CELLS, AND THAT LANDFILL LEACHATE AND GAS MAY MIGRATE ONTO THE CONSTRUCTION SITE. THE DBT SHALL TAKE WHATEVER MEANS NECESSARY TO PROTECT PERSONNEL AND FACILITIES FROM RELATED HAZARDS, INCLUDING EXPLOSION, ASPHYXIATION, AND POISONING DUE TO THE PRESENCE OF LANDFILL GASES.
27. THE DBT SHALL PREVENT DAMAGE TO THE EXISTING GEOMEMBRANE. DBT SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD DAMAGE OCCUR AND PERFORM REPAIRS AS DIRECTED BY THE OWNER WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
28. THE DBT SHALL NOT INTERFERE WITH FACILITY OPERATIONS. THE DBT SHALL COORDINATE WITH AND NOTIFY THE OWNER A MINIMUM OF 48 HOURS IN ADVANCE OF ALL PLANNED UTILITY OUTAGES AND ROAD CROSSINGS.
29. PRIOR TO BEGINNING EARTHWORK, THE DBT SHALL PROVIDE STORMWATER AND EROSION CONTROL PLANS TO PREVENT PONDING AND CONTROL EROSION AND RUNOFF FOR OWNER'S REVIEW AND APPROVAL. NO PONDING OF WATER SHALL BE ALLOWED. THE DBT SHALL USE WHATEVER MEANS NECESSARY TO PREVENT EROSION AND SHALL BE RESPONSIBLE FOR ALL WORK, INCLUDING PROVIDING EQUIPMENT, LABOR, FILL, ETC NECESSARY TO REMEDIATE AND/OR RESTORE ALL AREAS IMPACTED BY EROSION.
30. SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.
31. THE DBT SHALL INSTALL A DEDICATED PUMP WITH A CAPACITY OF AT LEAST 250 GPM AND A GENERATOR AT THE SUMP AREAS TO PUMP OUT STORMWATER DURING THE ENTIRE DURATION OF THE PROJECT.
32. THE DBT SHALL BE RESPONSIBLE FOR PREVENTING STORMWATER RUNOFF, SOLID WASTE, LANDFILL GAS, AND LEACHATE FROM ENTERING OR IMPACTING THE AREAS OF THE WORK. THE DBT SHALL INSTALL AND MAINTAIN MANAGEMENT AND CONTROL DEVICES INCLUDING DIVERSION/COLLECTION BERMS, DITCHES, PUMPING STATIONS, WALLS, LINERS, ETC. TO COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS WITHOUT INCREASE IN THE CONTRACT PRICE OR TIME.
33. ALL STORMWATER MANAGEMENT AND EROSION CONTROL SHALL BE IN ACCORDANCE WITH FACILITY'S PERMIT.
34. THE DBT IS RESPONSIBLE FOR APPLYING FOR AND COMPLYING WITH THE NPDES GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES FROM THE FDEP.

PROPOSED CONSTRUCTION SEQUENCE

- 1. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL METHODS.
2. CLEAR AND GRUB THE TREES WITHIN CONSTRUCTION AREA WITHOUT OBSTRUCTING LANDFILL TRAFFIC.
3. CONSTRUCT TEMPORARY ACCESS ROADS TO CELL 5, DEBRIS MANAGEMENT SITE, AND RELOCATE RECYCLE DROP-OFF CENTER AS SHOWN IN THE DRAWINGS.
4. EXTEND LEACHATE TRANSMISSION LINES, INSTALL MANHOLES/PUMP STATIONS AND LEACHATE STORAGE TANKS AND RELOCATE ELECTRICAL TRANSMISSION LINES.
5. DEMOLISH/ABANDON EXISTING STRUCTURES/INFRASTRUCTURES WITHIN THE LIMITS OF DISTURBANCE.
6. PREPARE CELL 6 FOOTPRINT, CONSTRUCT DOUBLE LINER SYSTEM, INSTALL LEACHATE COLLECTION PIPE NETWORK, PROTECTIVE COVER AND SUMP.
7. INSTALL RAIN LINER ON TOP OF CELL 6B AND HANDOVER CELL 6 FOR COUNTY USE.
8. PREPARE CELL 7 FOOTPRINT, CONSTRUCT DOUBLE LINER SYSTEM, INSTALL LEACHATE COLLECTION PIPE NETWORK, PROTECTIVE COVER, SUMP AND RAIN LINER.

SHEET REFERENCES



ABBREVIATIONS

Table with columns for GENERAL, MECHANICAL, and STRUCTURAL abbreviations. Includes terms like ADS (ADVANCED DRAINAGE SYSTEM), SS (STAINLESS STEEL), STD (STANDARD), STL (STEEL), T (TANGENT), USC&GS (UNITED STATES COASTAL AND GEODETIC SURVEY), USGS (UNITED STATES GEOLOGICAL SURVEY), WGT (WEIGHT), DELTA (ANGULAR CHANGE), BCCMP (BITUMINOUS COATED CORRUGATED METAL PIPE), BLD (BLIND), BWJ (BUTT-WELDED JOINT), CMP (CORRUGATED METAL PIPE), ELL (ELBOW), FJ (FLANGED JOINT), FLG (FLANGE), LR (LONG RADIUS), NPT (AMER. STD. TAPER PIPE THREAD), NRS (NON RISING STEM), PE (PLAIN END), PV (PLUG VALVE), EL (ELEVATION), RED (REDUCER), SOF (SLIP-ON FLANGE), WJ (WELDED JOINT), ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS), B/ (BOTTOM OF), C/ (CENTERLINE), CM/SEC (CENTIMETERS PER SECOND), CLR (CLEAR), EF (EACH FACE), EQ (EQUAL, EQUALLY), EW (EACH WAY), FT (FOOT, FEET), FTG (FOOTING), HORIZ (HORIZONTAL), LBR (LOAD BEARING RATIO), NOM (NOMINAL), P (PLATE), PSI (POUNDS PER SQUARE INCH), REINF (REINFORCEMENT, REINFORCING), SP (SPACING, SPACED), SQ (SQUARE), T/ (TOP OF), VERT (VERTICAL), W (WIRE), W/ (WITH), WWF (WELDED WIRE FABRIC), AT (AT), Ø (DIAMETER), #/IN (POUNDS PER INCH), ELECTRICAL (AMPS, CIRCUIT BREAKER, CABLE, COMBINATION, FULL VOLTAGE NON-REVERSING, GROUND FAULT INTERRUPT, GROUND, KILOVOLT AMP, LEVEL, NATIONAL ELECTRICAL MANUFACTURING ASSOCIATION, POLE, POWER, SWITCH, VOLT(S), WATER PROOF, TRANSFORMER, WYE).

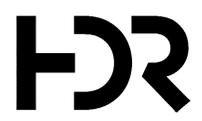


Table with columns: ISSUE, DATE, DESCRIPTION. Includes entries for 03/08/2019 (ADDENDUM #2 TO RFP NO. 19-33) and 02/11/2019 (ISSUED FOR RFP NO. 19-33).

Table with columns: PROJECT MANAGER, DESIGNED BY, DRAWN BY, CHECKED BY, PROJECT NUMBER. Includes names like M. ROBERTS, P.E., K. PERERA, P.E., J. RAYMOND, M. ROBERTS, P.E., T. YANOSCHAK, P.E. and project number 10150537.



STEELFIELD ROAD LANDFILL EXPANSION

BAY COUNTY



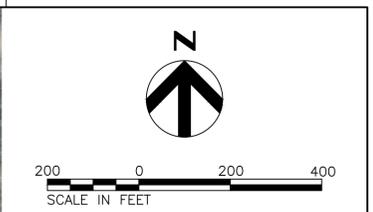
FLORIDA

GENERAL NOTES AND ABBREVIATIONS



FILENAME: 00G-02.dwg, SCALE

SHEET 00G-02



LEGEND

- PROPERTY BOUNDARY
- - - EXISTING MINOR CONTOUR
- - - 40' EXISTING MAJOR CONTOUR
- LIMITS OF CELL A
- LIMITS OF CELL B
- LIMITS OF LINER (CELLS 1 AND 2 COMBINED)
- LIMITS OF LINER (CELLS 3, 4, AND 5 COMBINED)
- EXISTING LEACHATE CONVEYANCE PIPE
- EXISTING FENCE
- ZONE OF DISCHARGE
- ◆ 81.59 FLGPS CONTROL POINT
- △ MW-21R GROUNDWATER MONITORING WELL
- ⊙ SW-2 SURFACE WATER MONITORING STATION
- ⊕ PZ-1 PIEZOMETER
- ⊙ PW-1 WATER LEVEL WELL
- ⊙ GW-5 LANDFILL GAS MONITORING WELL
- 50' GROUNDWATER CONTOUR (SEASONAL HIGH WATER TABLE)
- ▨ LIMITS OF PROPOSED GRAVEL ACCESS ROAD
- ▨ LIMITS OF PROPOSED TEMPORARY GRAVEL ACCESS ROAD

CONTROL POINT TABLE

POINT ID	NORTHING	EASTING	ELEVATION
FLGPS	497436.810	1521221.070	81.59
6	497693.240	1522768.570	67.09
7	497670.880	1522114.450	71.84
8	498988.350	1522219.430	52.29
9	498778.830	1522801.310	59.26

- NOTES:**
- TOPOGRAPHIC SURVEY BASED ON LIDAR DATA OBTAINED FROM BAY COUNTY, FLORIDA, DATED 2006 AND GROUND SURVEYS PERFORMED BY BAY COUNTY PUBLIC WORKS DEPARTMENT, DATED 03/21/17 AND 02/22/18.
 - EXISTING INFORMATION SHOWN HERE MAY HAVE BEEN DIGITIZED FROM PERMIT DRAWINGS, RECORD DRAWINGS OR AS-BUILTS. HDR MAY HAVE ROTATED, ADJUSTED THE HORIZONTAL COORDINATE SYSTEM OR VERTICAL DATUM TO THE BEST OF OUR KNOWLEDGE. ACCORDINGLY, THE INFORMATION PROVIDED SHOULD BE CONSIDERED APPROXIMATE. DBT TO CONFIRM INFORMATION BEFORE BEGINNING CONSTRUCTION.



ISSUE	DATE	DESCRIPTION
B	03/08/2019	ADDENDUM #2 TO RFP NO. 19-33
A	02/11/2019	ISSUED FOR RFP NO. 19-33

PROJECT MANAGER M. ROBERTS, P.E.

DESIGNED BY K. PERERA, P.E.

DRAWN BY J. RAYMOND

CHECKED BY M. ROBERTS, P.E.

CHECKED BY T. YANOSCHAK, P.E.

PROJECT NUMBER 10150537

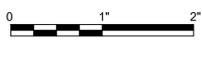


STEELFIELD ROAD LANDFILL EXPANSION

BAY COUNTY

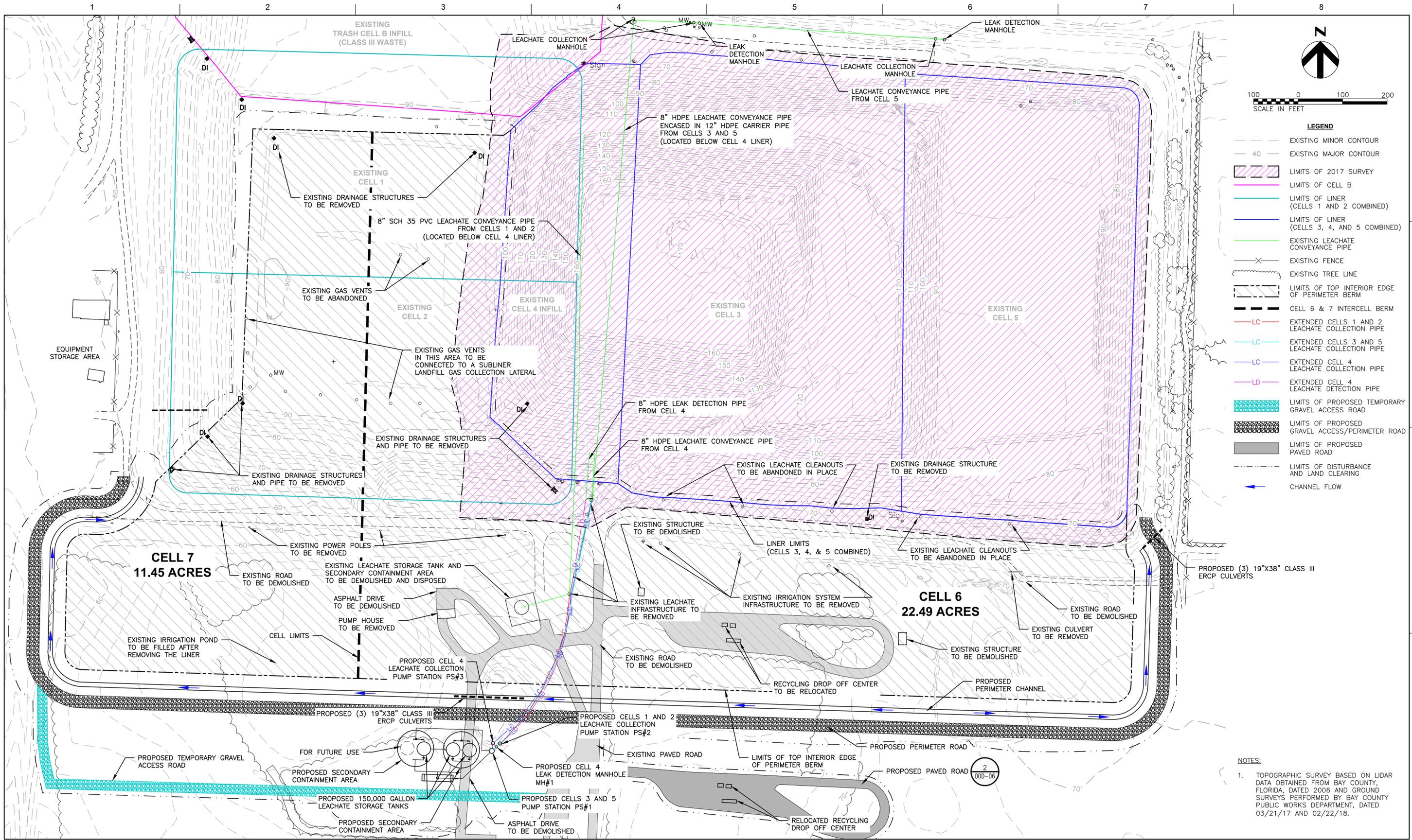


FLORIDA



FILENAME | 00C-01.dwg
SCALE | 1" = 200'

SHEET
00C-01



LEGEND

- EXISTING MINOR CONTOUR
- - - EXISTING MAJOR CONTOUR
- [Pink Hatched Box] LIMITS OF 2017 SURVEY
- [Pink Solid Box] LIMITS OF CELL B
- [Cyan Solid Box] LIMITS OF LINER (CELLS 1 AND 2 COMBINED)
- [Blue Solid Box] LIMITS OF LINER (CELLS 3, 4, AND 5 COMBINED)
- [Green Solid Line] EXISTING LEACHATE CONVEYANCE PIPE
- [X Symbol] EXISTING FENCE
- [Dashed Line] EXISTING TREE LINE
- [Dashed Line] LIMITS OF TOP INTERIOR EDGE OF PERIMETER BERM
- [Thick Dashed Line] CELL 6 & 7 INTERCELL BERM
- [Red Line] LC - EXTENDED CELLS 1 AND 2 LEACHATE COLLECTION PIPE
- [Cyan Line] LC - EXTENDED CELLS 3 AND 5 LEACHATE COLLECTION PIPE
- [Blue Line] LC - EXTENDED CELL 4 LEACHATE COLLECTION PIPE
- [Magenta Line] LD - EXTENDED CELL 4 LEACHATE DETECTION PIPE
- [Blue Dotted Box] LIMITS OF PROPOSED TEMPORARY GRAVEL ACCESS ROAD
- [Black Dotted Box] LIMITS OF PROPOSED GRAVEL ACCESS/PERIMETER ROAD
- [Grey Box] LIMITS OF PROPOSED PAVED ROAD
- [Dashed Line] LIMITS OF DISTURBANCE AND LAND CLEARING
- [Blue Arrow] CHANNEL FLOW

NOTES:

1. TOPOGRAPHIC SURVEY BASED ON LIDAR DATA OBTAINED FROM BAY COUNTY, FLORIDA, DATED 2006 AND GROUND SURVEYS PERFORMED BY BAY COUNTY PUBLIC WORKS DEPARTMENT, DATED 03/21/17 AND 02/22/18.



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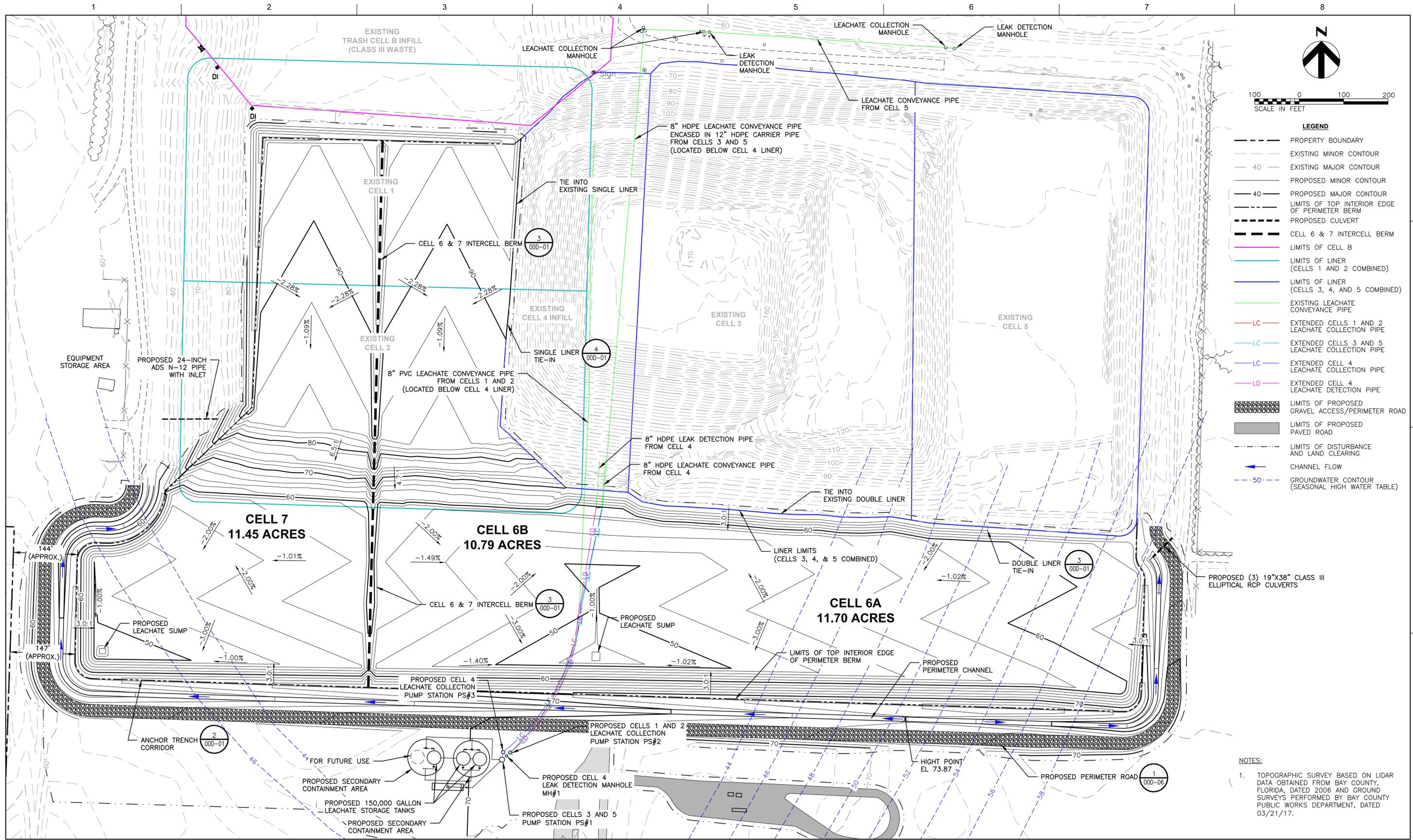
BAY COUNTY FLORIDA

SITE PREPARATION PLAN

FILENAME | 00C-02.dwg

SCALE | 1" = 100'

SHEET | 00C-02



- LEGEND**
- PROPERTY BOUNDARY
 - - - EXISTING MINOR CONTOUR
 - - - EXISTING MAJOR CONTOUR
 - - - PROPOSED MINOR CONTOUR
 - - - PROPOSED MAJOR CONTOUR
 - - - LIMITS OF TOP INTERIOR EDGE OF PERIMETER BERM
 - - - PROPOSED CULVERT
 - - - CELL 6 & 7 INTERCELL BERM
 - - - LIMITS OF CELL B
 - - - LIMITS OF LINER (CELLS 1 AND 2 COMBINED)
 - - - LIMITS OF LINER (CELLS 3, 4, AND 5 COMBINED)
 - - - EXISTING LEACHATE CONVEYANCE PIPE
 - - - LC - EXTENDED CELLS 1 AND 2 LEACHATE COLLECTION PIPE
 - - - LC - EXTENDED CELLS 3 AND 5 LEACHATE COLLECTION PIPE
 - - - LC - EXTENDED CELL 4 LEACHATE COLLECTION PIPE
 - - - LD - EXTENDED CELL 4 LEACHATE DETECTION PIPE
 - - - LIMITS OF PROPOSED GRAVEL ACCESS/PERIMETER ROAD
 - - - LIMITS OF PROPOSED PAVED ROAD
 - - - LIMITS OF DISTURBANCE AND LAND CLEARING
 - - - CHANNEL FLOW
 - - - 50 - GROUNDWATER CONTOUR (SEASONAL HIGH WATER TABLE)

- NOTES:**
1. TOPOGRAPHIC SURVEY BASED ON LIDAR DATA OBTAINED FROM BAY COUNTY, FLORIDA, DATED 2006 AND GROUND SURVEYS PERFORMED BY BAY COUNTY PUBLIC WORKS DEPARTMENT, DATED 03/21/17.



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STEELFIELD ROAD LANDFILL EXPANSION

TOP OF LINER GRADING PLAN

BAY COUNTY

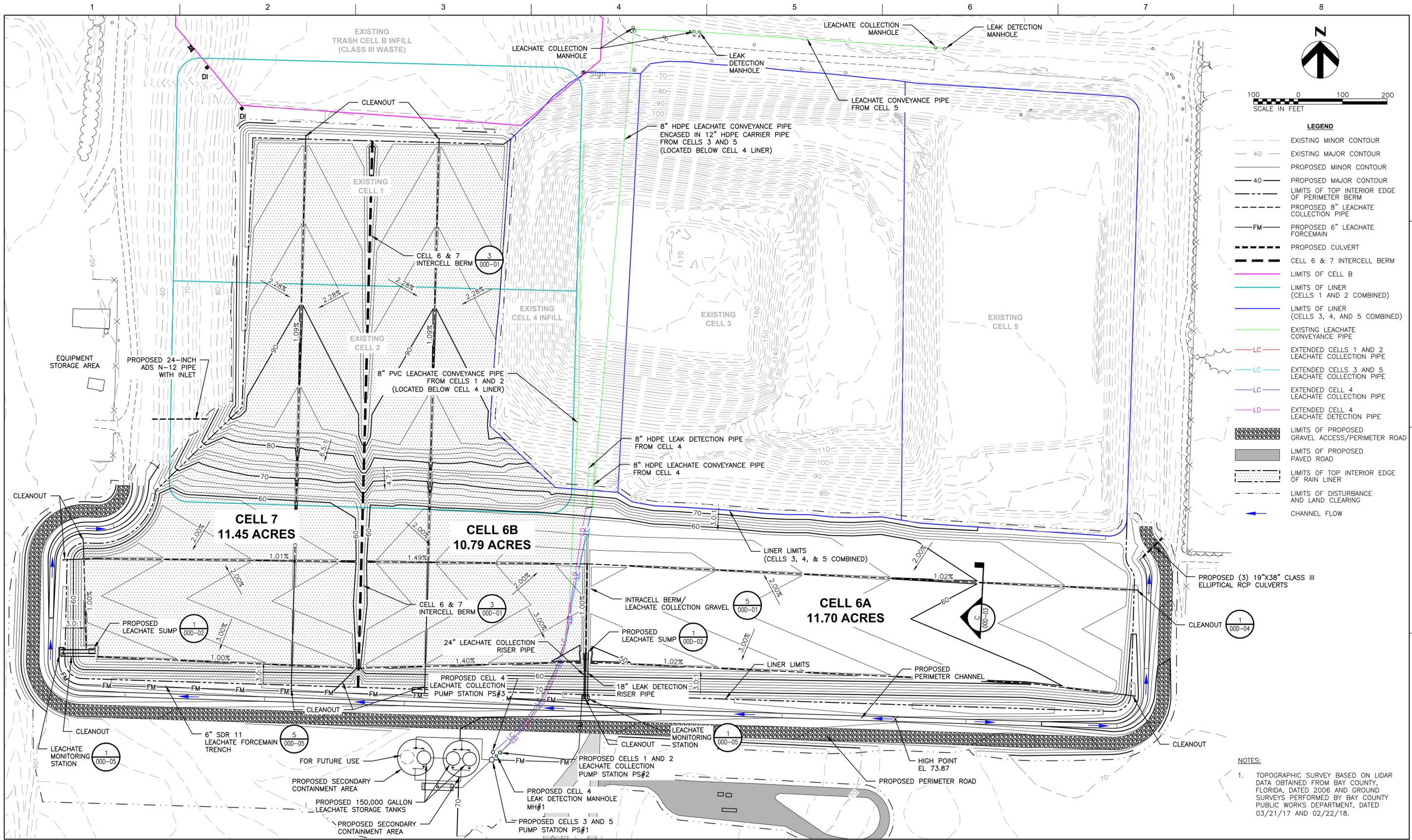


FLORIDA



FILENAME 00C-03.dwg
SCALE 1" = 100'

SHEET
00C-03



- LEGEND**
- EXISTING MINOR CONTOUR
 - 40 - EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - 40 - PROPOSED MAJOR CONTOUR
 - - - - LIMITS OF TOP INTERIOR EDGE OF PERIMETER BERM
 - - - - PROPOSED 8" LEACHATE COLLECTION PIPE
 - FM - PROPOSED 6" LEACHATE FORCEMAIN
 - - - - PROPOSED CULVERT
 - - - - CELL 6 & 7 INTERCELL BERM
 - - - - LIMITS OF CELL B
 - - - - LIMITS OF LINER (CELLS 1 AND 2 COMBINED)
 - - - - LIMITS OF LINER (CELLS 3, 4, AND 5 COMBINED)
 - - - - EXISTING LEACHATE CONVEYANCE PIPE
 - LC - EXTENDED CELLS 1 AND 2 LEACHATE COLLECTION PIPE
 - LC - EXTENDED CELLS 3 AND 5 LEACHATE COLLECTION PIPE
 - LC - EXTENDED CELL 4 LEACHATE COLLECTION PIPE
 - LD - EXTENDED CELL 4 LEACHATE DETECTION PIPE
 - - - - LIMITS OF PROPOSED GRAVEL ACCESS/PERIMETER ROAD
 - - - - LIMITS OF PROPOSED PAVED ROAD
 - - - - LIMITS OF TOP INTERIOR EDGE OF RAIN LINER
 - - - - LIMITS OF DISTURBANCE AND LAND CLEARING
 - - - - CHANNEL FLOW

NOTES:

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STEELFIELD ROAD LANDFILL EXPANSION

BAY COUNTY FLORIDA

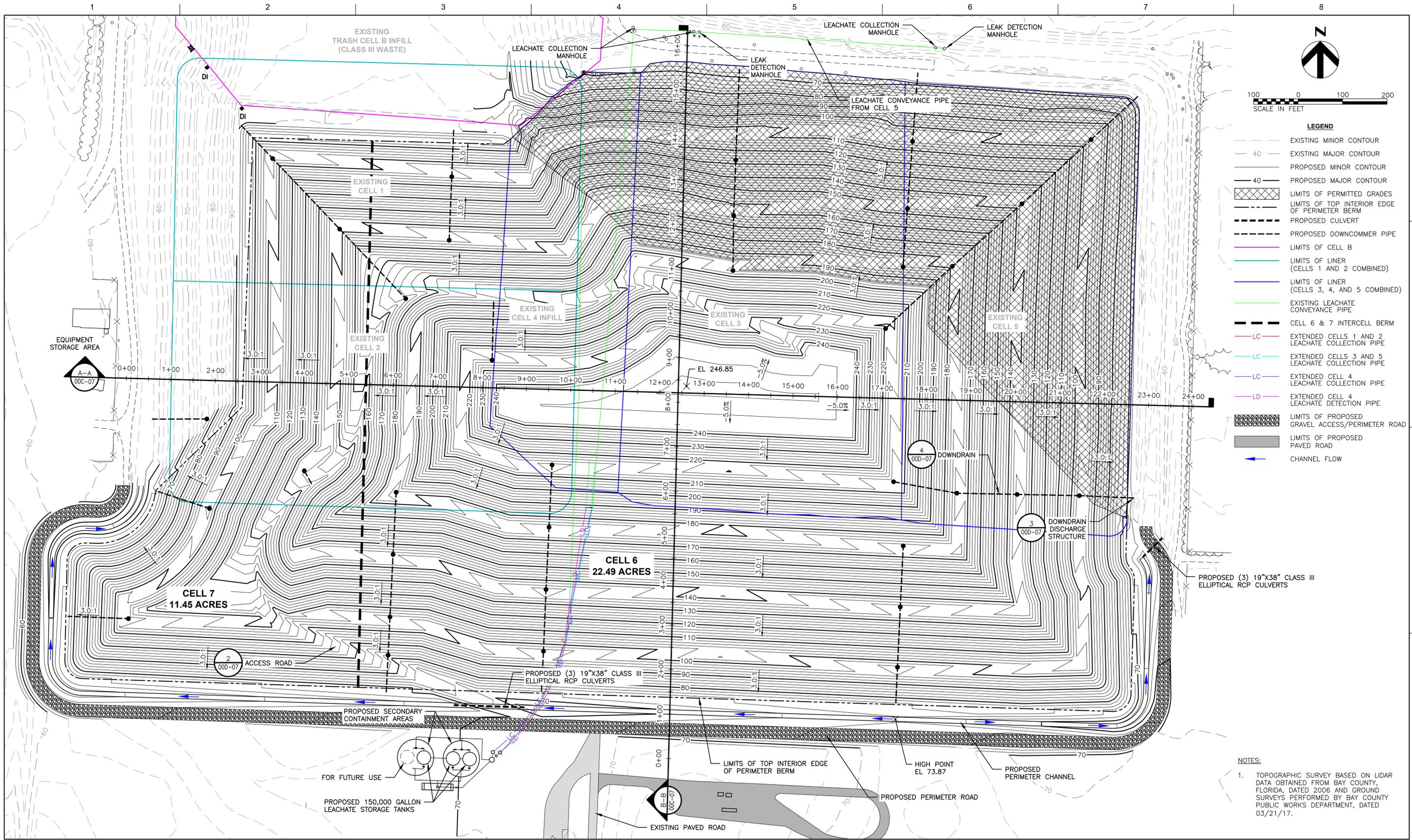
TOP OF PROTECTIVE COVER GRADING PLAN

0 1" 2"

FILENAME | 00C-04.dwg

SCALE | 1" = 100'

SHEET
00C-04



- LEGEND**
- EXISTING MINOR CONTOUR
 - 40 - EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - 40 - PROPOSED MAJOR CONTOUR
 - [Hatched Box] LIMITS OF PERMITTED GRADES
 - [Dashed Line] LIMITS OF TOP INTERIOR EDGE OF PERIMETER BERM
 - - - - PROPOSED CULVERT
 - - - - PROPOSED DOWNCOMMER PIPE
 - [Pink Line] LIMITS OF CELL B
 - [Cyan Line] LIMITS OF LINER (CELLS 1 AND 2 COMBINED)
 - [Blue Line] LIMITS OF LINER (CELLS 3, 4, AND 5 COMBINED)
 - [Green Line] EXISTING LEACHATE CONVEYANCE PIPE
 - [Black Dashed] CELL 6 & 7 INTERCELL BERM
 - [Red Line] LC - EXTENDED CELLS 1 AND 2 LEACHATE COLLECTION PIPE
 - [Cyan Line] LC - EXTENDED CELLS 3 AND 5 LEACHATE COLLECTION PIPE
 - [Blue Line] LC - EXTENDED CELL 4 LEACHATE COLLECTION PIPE
 - [Pink Line] LD - EXTENDED CELL 4 LEACHATE DETECTION PIPE
 - [Hatched Box] LIMITS OF PROPOSED GRAVEL ACCESS/PERIMETER ROAD
 - [Grey Box] LIMITS OF PROPOSED PAVED ROAD
 - [Blue Arrow] CHANNEL FLOW

NOTES:

1. TOPOGRAPHIC SURVEY BASED ON LIDAR DATA OBTAINED FROM BAY COUNTY, FLORIDA, DATED 2006 AND GROUND SURVEYS PERFORMED BY BAY COUNTY PUBLIC WORKS DEPARTMENT, DATED 03/21/17.



ISSUE	DATE	DESCRIPTION
B	03/08/2019	ADDENDUM #2 TO RFP NO. 19-33
A	02/11/2019	ISSUED FOR RFP NO. 19-33

PROJECT MANAGER	M. ROBERTS, P.E.
DESIGNED BY	K. PERERA, P.E.
DRAWN BY	J. RAYMOND
CHECKED BY	M. ROBERTS, P.E.
CHECKED BY	T. YANOSCHAK, P.E.
PROJECT NUMBER	10150537



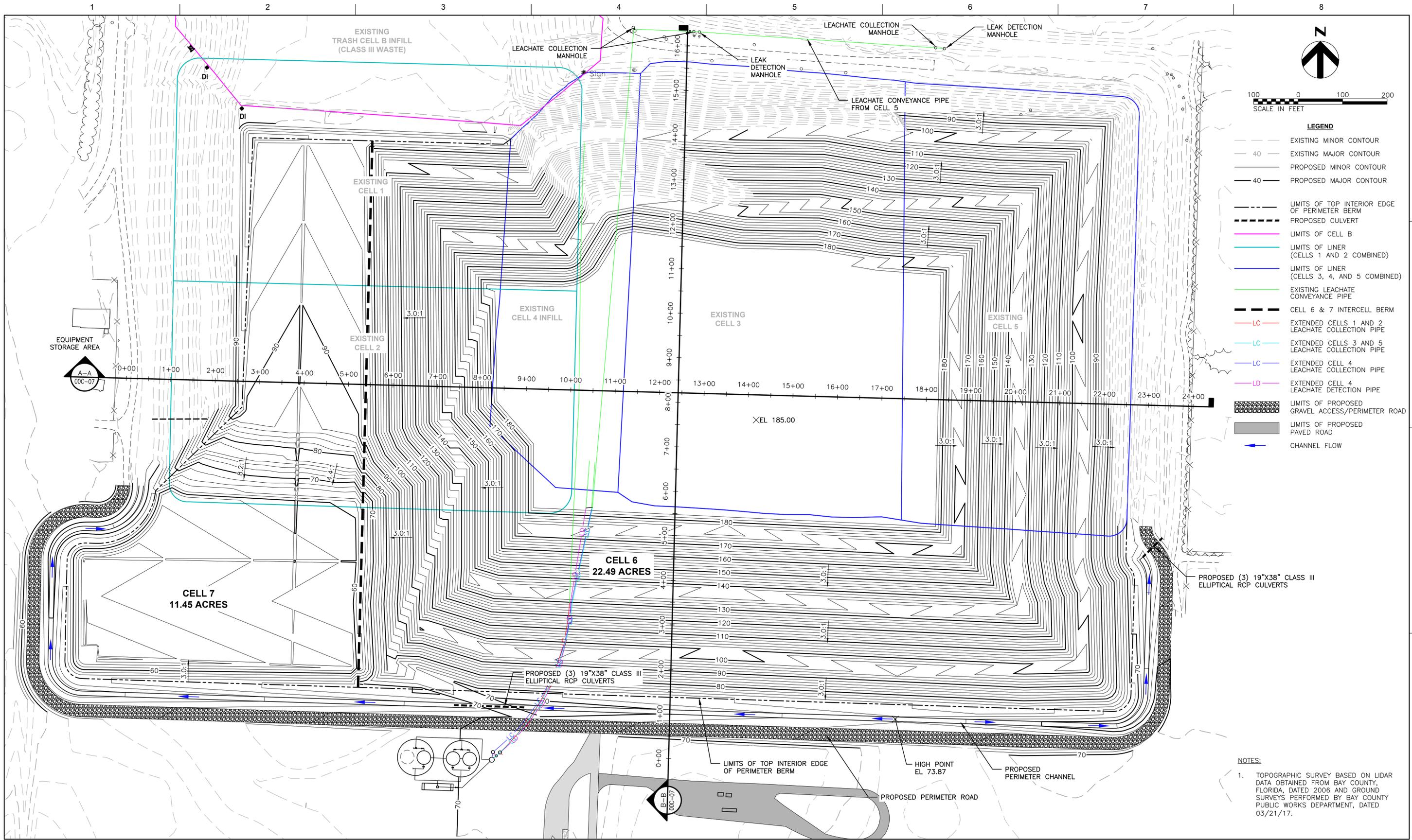
STEELFIELD ROAD LANDFILL EXPANSION

BAY COUNTY

FLORIDA

CONCEPTUAL TOP OF FINAL COVER GRADING PLAN (NIC)

FILENAME: 00C-05.dwg
SCALE: 1" = 100'
SHEET: 00C-05



LEGEND

- EXISTING MINOR CONTOUR
- 40 - EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- 40 - PROPOSED MAJOR CONTOUR
- - - LIMITS OF TOP INTERIOR EDGE OF PERIMETER BERM
- - - PROPOSED CULVERT
- LIMITS OF CELL B
- LIMITS OF LINER (CELLS 1 AND 2 COMBINED)
- LIMITS OF LINER (CELLS 3, 4, AND 5 COMBINED)
- EXISTING LEACHATE CONVEYANCE PIPE
- - - CELL 6 & 7 INTERCELL BERM
- LC - EXTENDED CELLS 1 AND 2 LEACHATE COLLECTION PIPE
- LC - EXTENDED CELLS 3 AND 5 LEACHATE COLLECTION PIPE
- LC - EXTENDED CELL 4 LEACHATE COLLECTION PIPE
- LD - EXTENDED CELL 4 LEACHATE DETECTION PIPE
- LIMITS OF PROPOSED GRAVEL ACCESS/PERIMETER ROAD
- LIMITS OF PROPOSED PAVED ROAD
- CHANNEL FLOW

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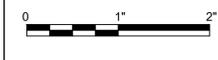
PROJECT MANAGER	M. ROBERTS, P.E.
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STEELFIELD ROAD LANDFILL EXPANSION

BAY COUNTY

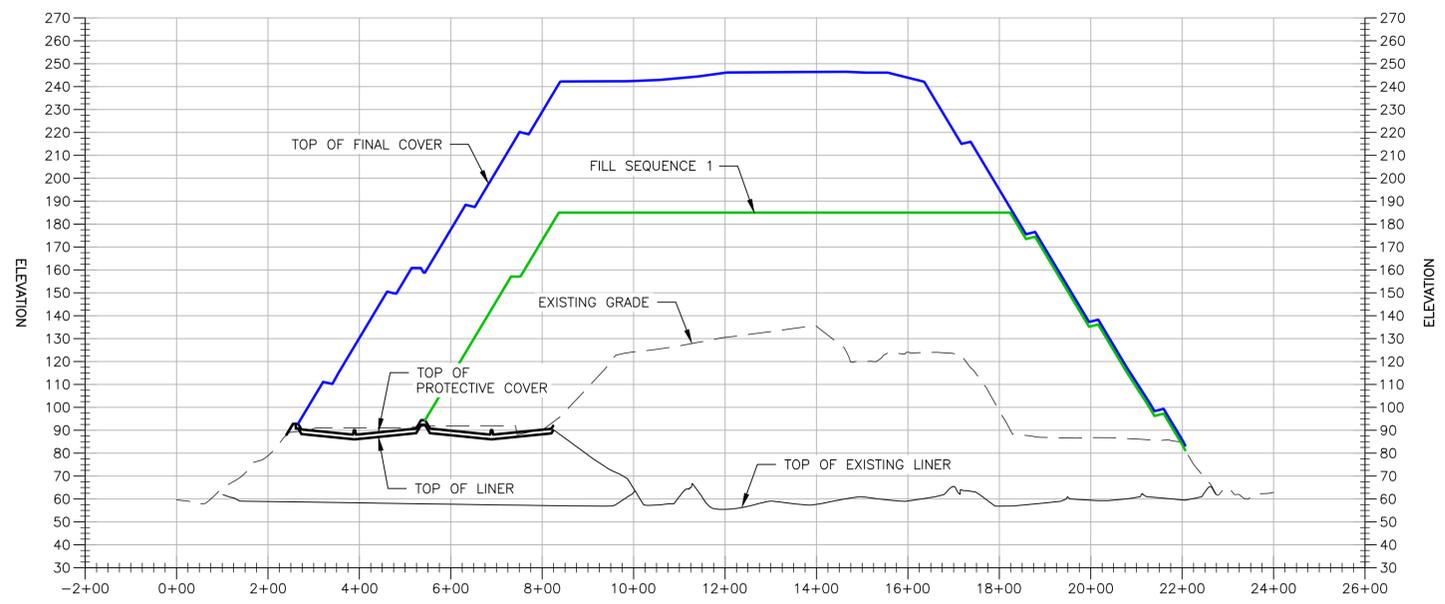
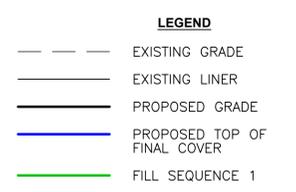
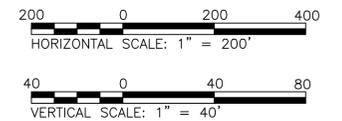
FLORIDA



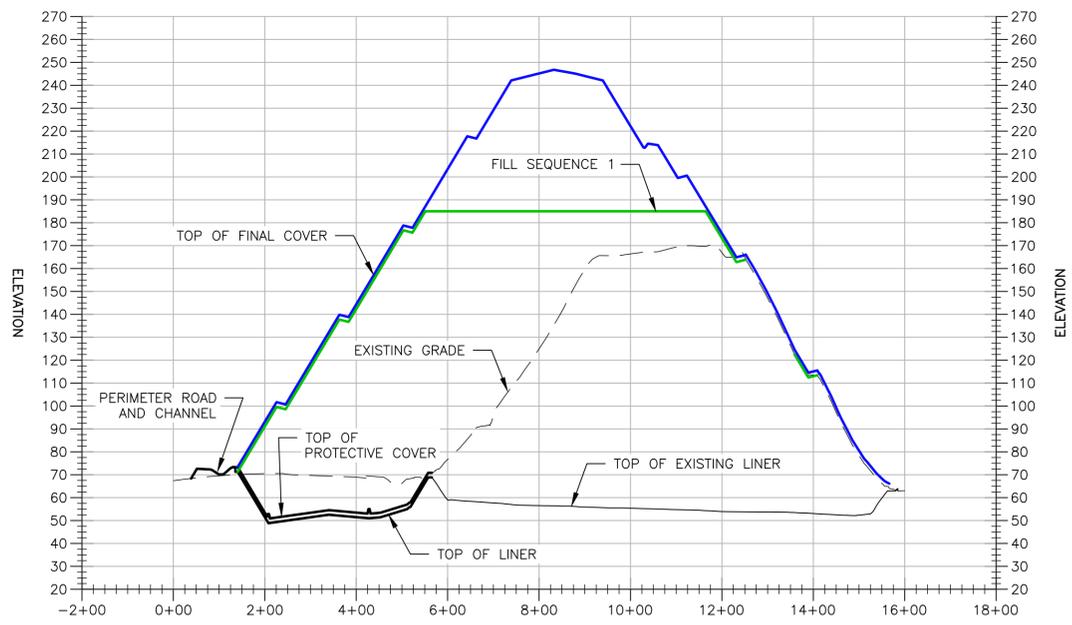
FILL SEQUENCE 1

FILENAME | 00C-06.dwg
SCALE | 1" = 100'

SHEET
00C-06



SECTION A-A
 HORIZONTAL SCALE: 1" = 200' / VERTICAL SCALE: 1" = 40' A-A
00C-05

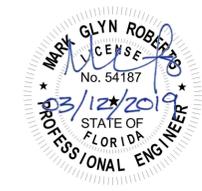


SECTION B-B
 HORIZONTAL SCALE: 1" = 200' / VERTICAL SCALE: 1" = 40' B-B
00C-05



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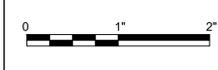
PROJECT MANAGER	M. ROBERTS, P.E.
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STEELFIELD ROAD LANDFILL EXPANSION

BAY COUNTY **FLORIDA**

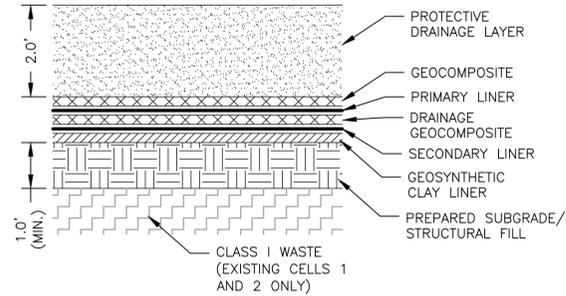
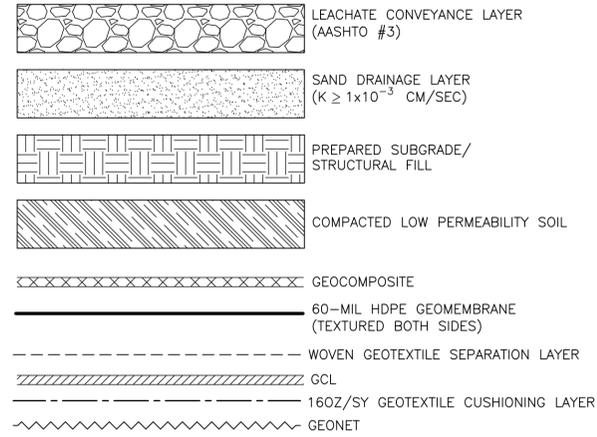
LANDFILL CROSS SECTIONS



FILENAME: 00C-07.dwg
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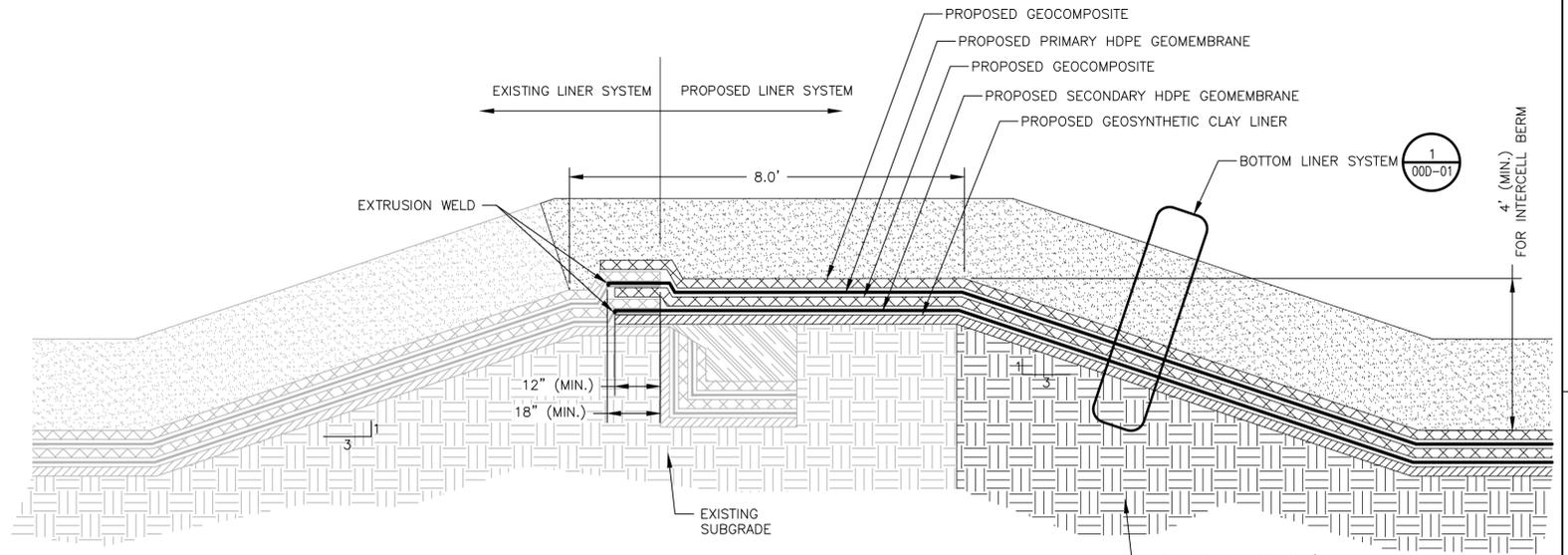
SHEET
00C-07

LEGEND

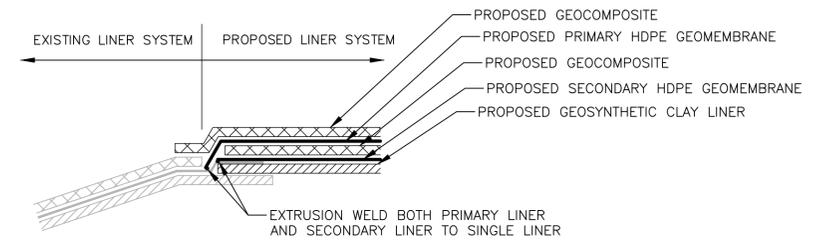


NOTES:
 1. THE PREPARED SUBGRADE SHALL HAVE A MINIMUM 1-FOOT THICKNESS WITHIN THE LIMITS OF CELLS 1 AND 2 WASTE. THE OTHER AREAS SHALL HAVE A COMPACTED SURFACE PER THE SPECIFICATION BEFORE PLACEMENT OF LINER.

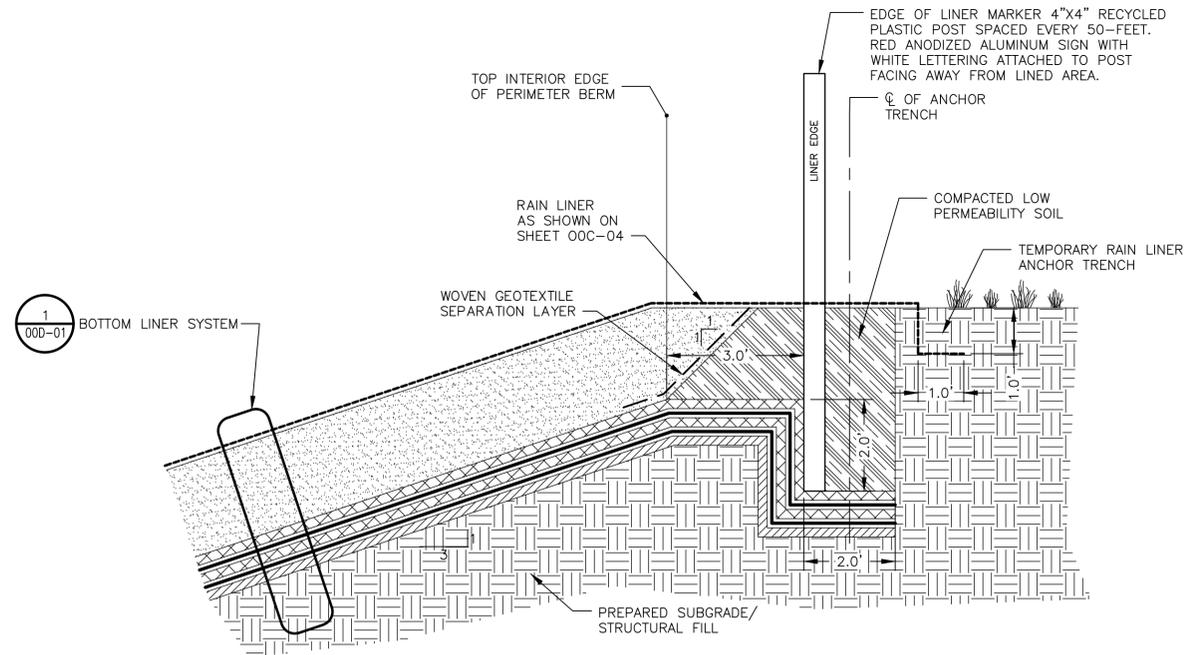
BOTTOM LINER SYSTEM (1)
 NOT TO SCALE (000-01)



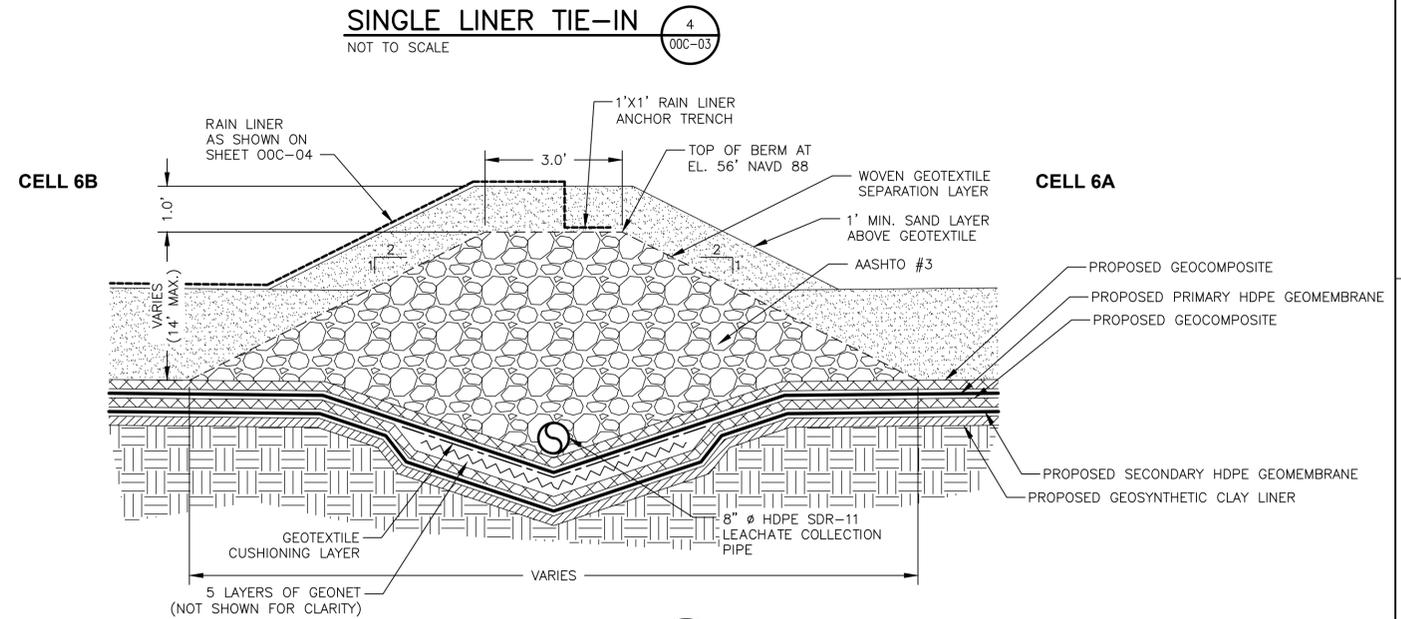
DOUBLE LINER TIE-IN AND CELL 6 & 7 INTERCELL BERM (3)
 NOT TO SCALE (000-03)



SINGLE LINER TIE-IN (4)
 NOT TO SCALE (000-03)



ANCHOR TRENCH CORRIDOR (2)
 NOT TO SCALE (000-03)



INTRACELL BERM (5)
 NOT TO SCALE (000-04)



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STEELFIELD ROAD LANDFILL EXPANSION

BAY COUNTY



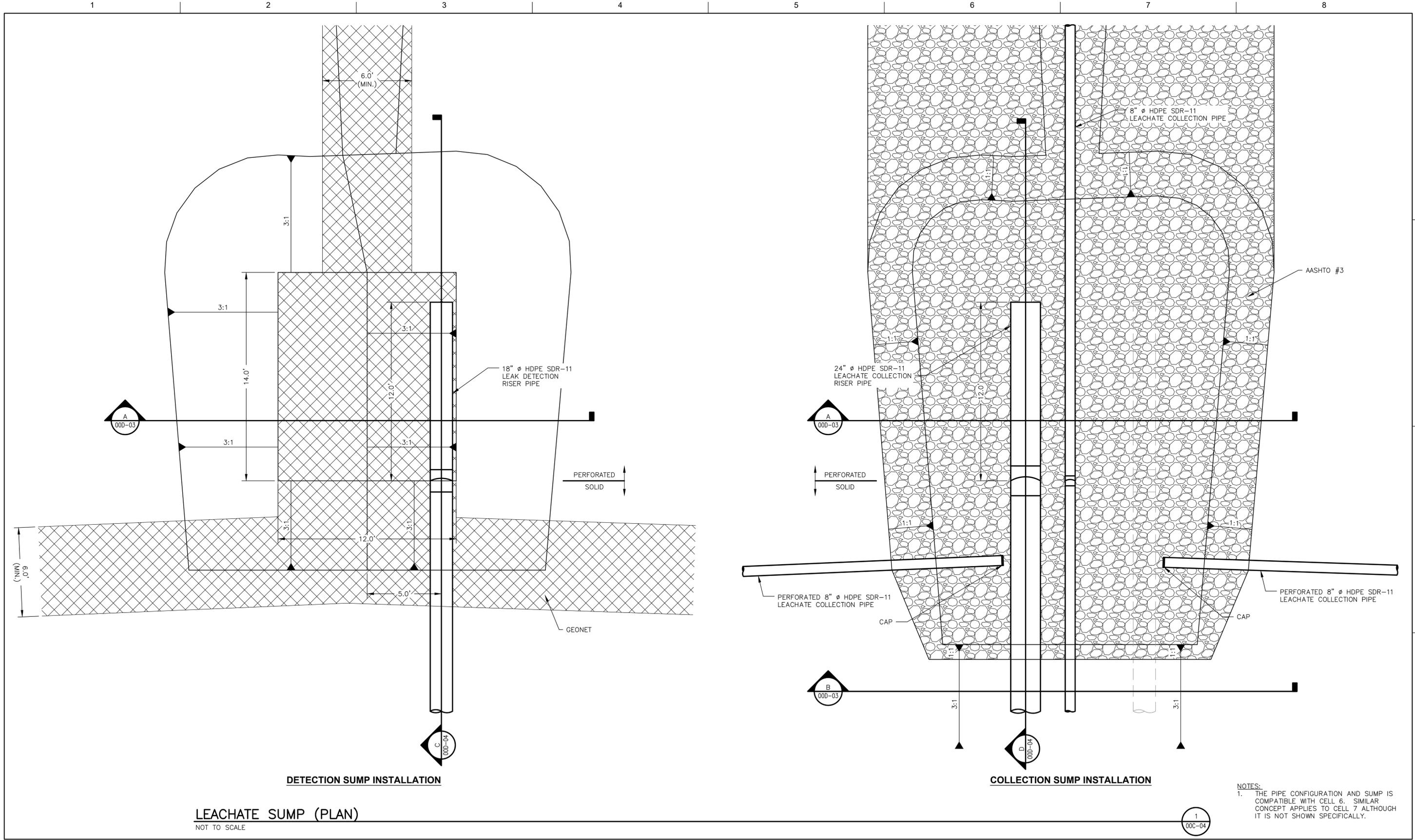
FLORIDA

CELL CONSTRUCTION DETAILS (SHEET 1 OF 5)



FILENAME | 00D-01.dwg
 SCALE | AS SHOWN

SHEET
00D-01



LEACHATE SUMP (PLAN)
NOT TO SCALE

COLLECTION SUMP INSTALLATION

NOTES:
1. THE PIPE CONFIGURATION AND SUMP IS COMPATIBLE WITH CELL 6. SIMILAR CONCEPT APPLIES TO CELL 7 ALTHOUGH IT IS NOT SHOWN SPECIFICALLY.



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STEELFIELD ROAD LANDFILL EXPANSION

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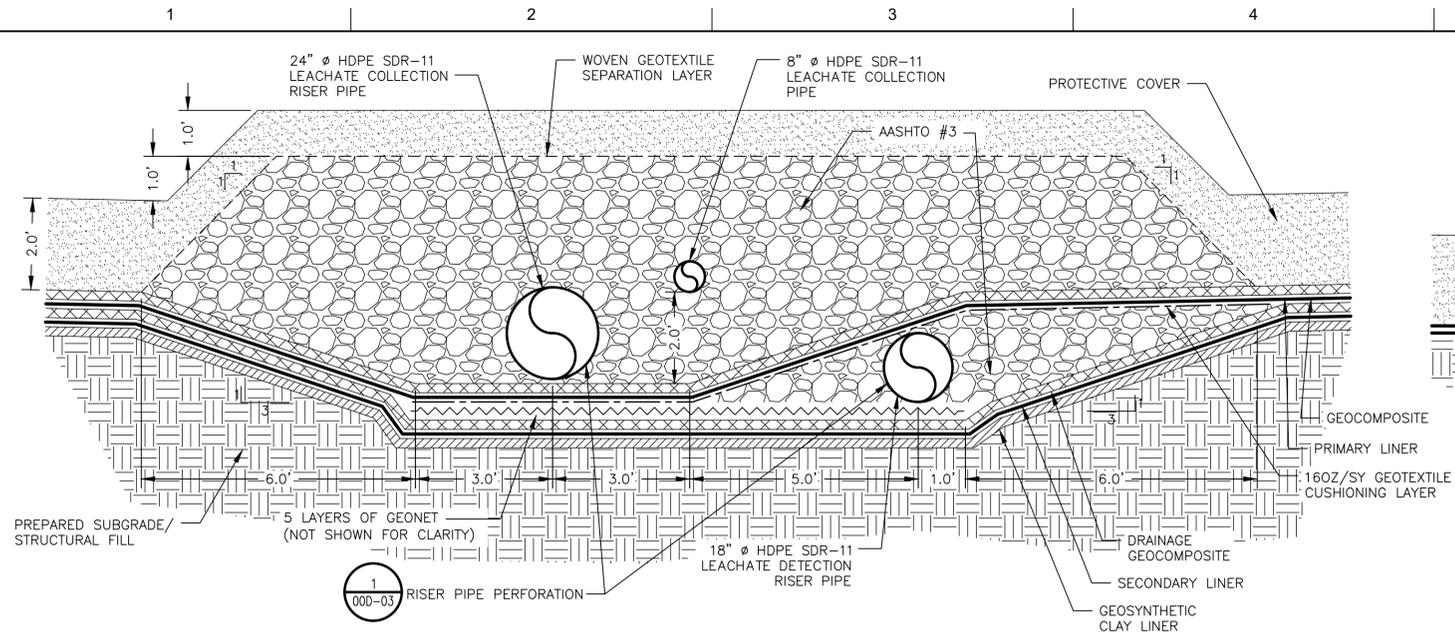
FLORIDA

**CELL CONSTRUCTION DETAILS
(SHEET 2 OF 5)**



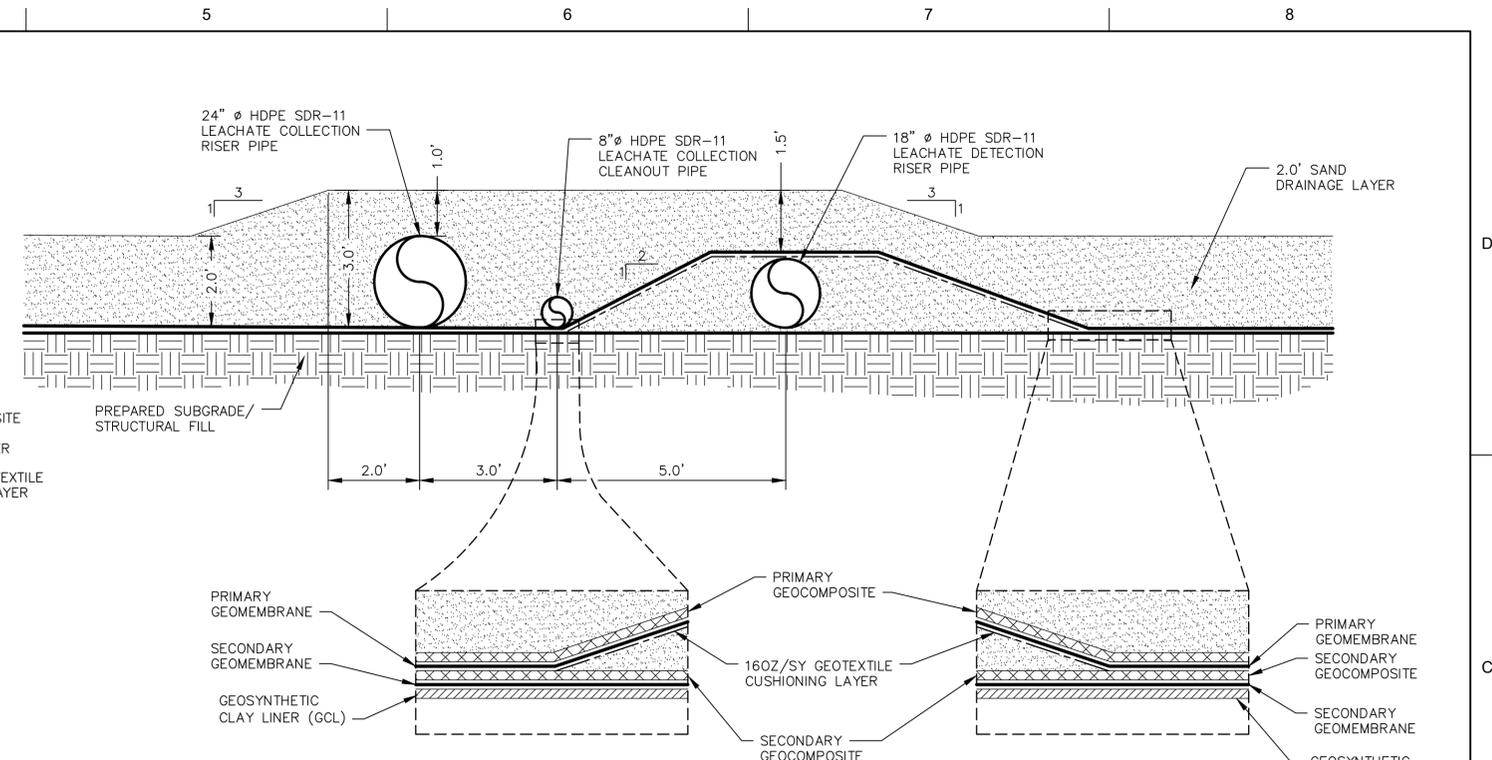
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SCALE | AS SHOWN

SHEET
00D-02



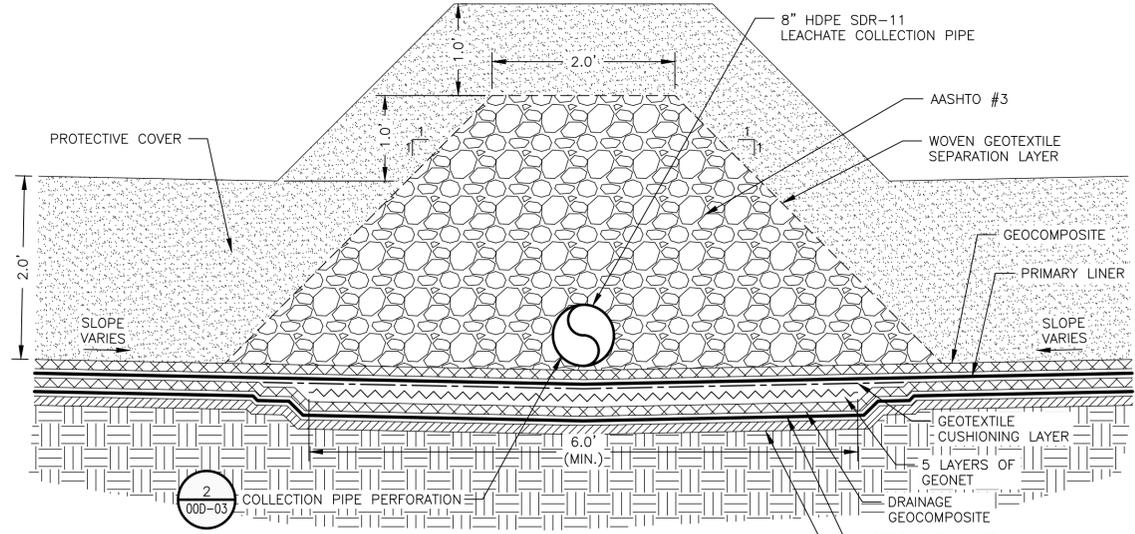
LEACHATE COLLECTION/DETECTION SUMP BOTTOM - SECTION

NOT TO SCALE



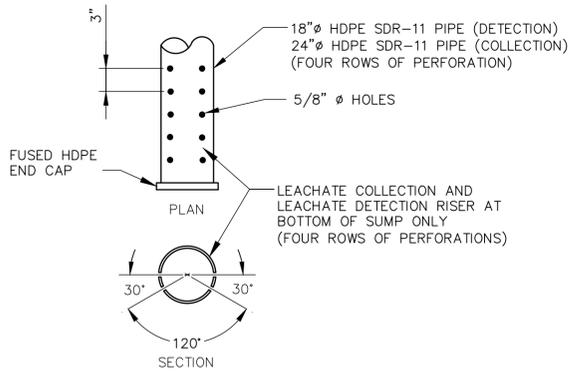
LEACHATE COLLECTION/DETECTION SUMP RISER AT SIDESLOPE - SECTION

NOT TO SCALE



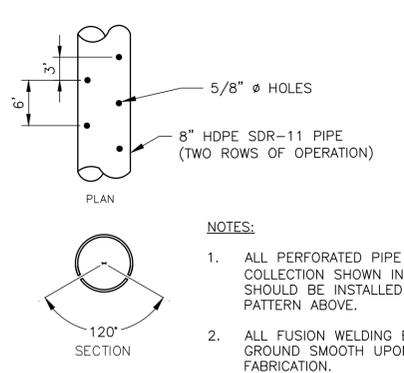
LEACHATE COLLECTION/DETECTION PIPE SWALE - TYPICAL SECTION

NOT TO SCALE



RISER PIPE PERFORATION

NOT TO SCALE



COLLECTION PIPE PERFORATION

NOT TO SCALE

- NOTES:**
1. DETAILS ARE SHOWN NOT TO SCALE AS NOTED AND THE GEOSYNTHETIC LAYERS ARE SHOWN AT AN EXAGGERATED SCALE FOR CLARITY.
 2. LEACHATE COLLECTION AND LEAK DETECTION RISER PIPES SHALL BE PERFORATED FOR THE PORTIONS OF PIPE ON THE BOTTOM OF THE LANDFILL CELL. THE PORTIONS ON THE CELL SIDESLOPES AND ELBOWS BETWEEN THE FLAT PORTIONS AND SIDESLOPE PORTIONS OF THE PIPE SHALL BE NON-PERFORATED.
 3. HDPE GEOMEMBRANE SEAMS SHALL NOT BE LOCATED IN LEACHATE COLLECTION/DETECTION TRENCH.
 4. FOR EASE OF CONSTRUCTION, THE WIDTH OF THE LEACHATE DETECTION SWALE SHALL BE SET EQUAL TO THE ROLL WIDTH OF THE GEONET PRODUCT USED, BUT NO LESS THAN 6 FEET.



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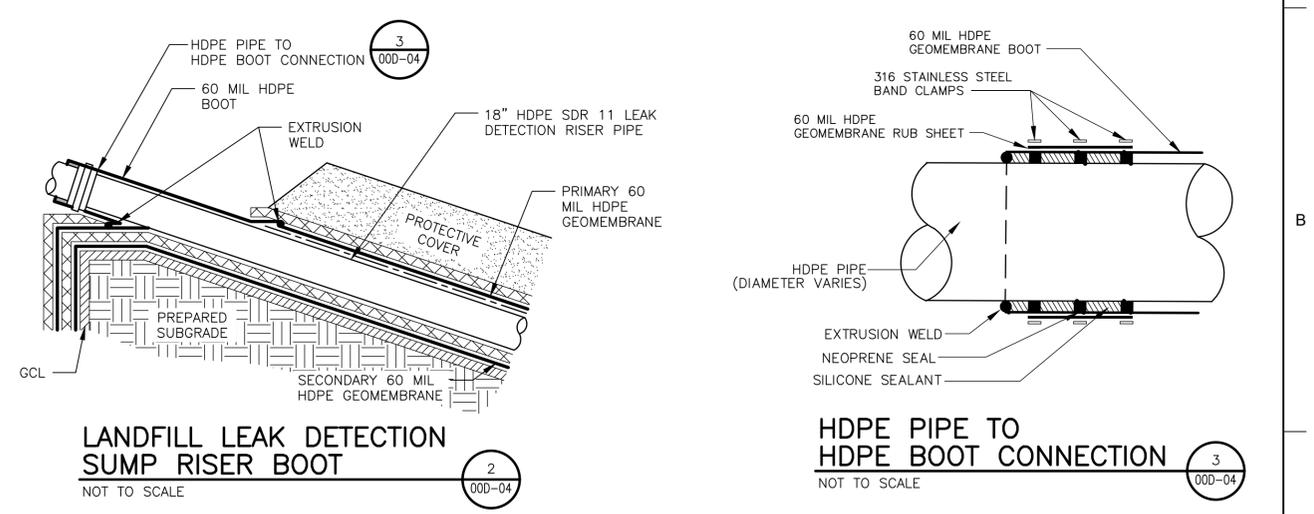
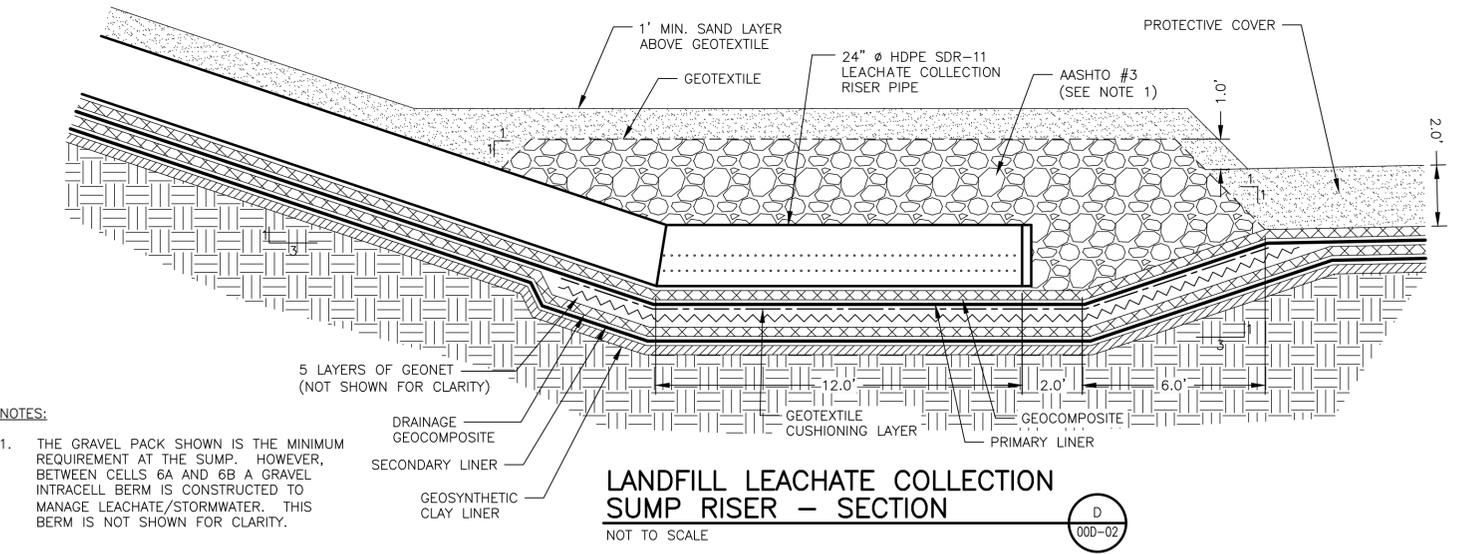
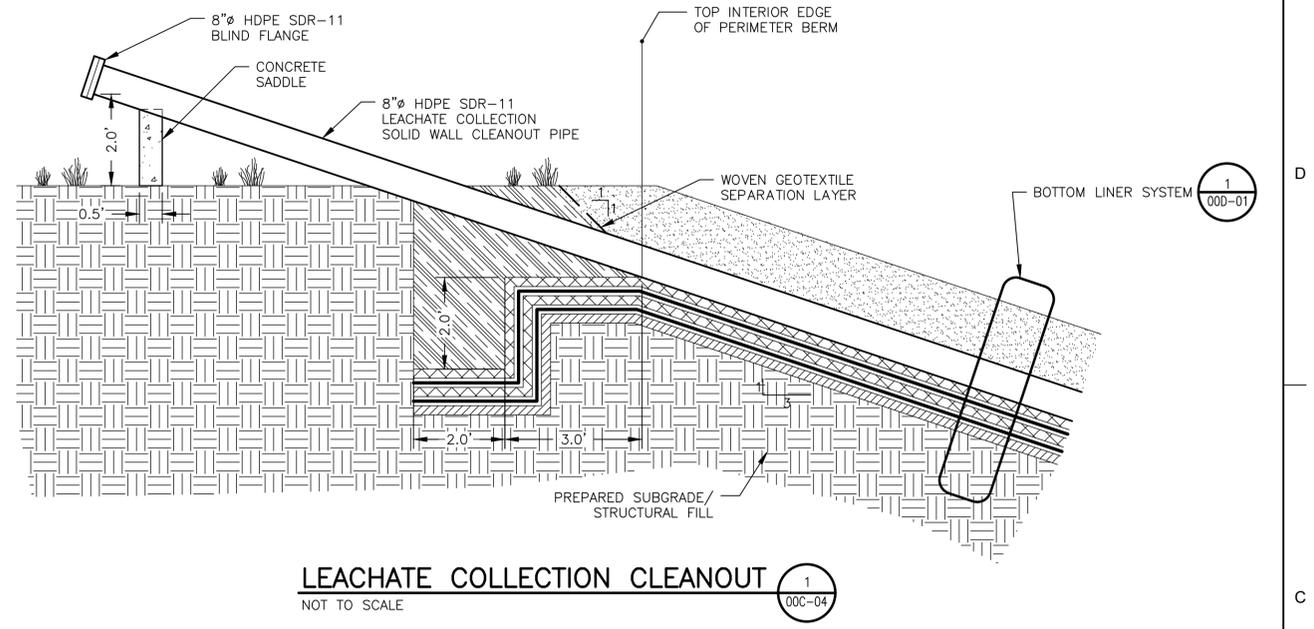
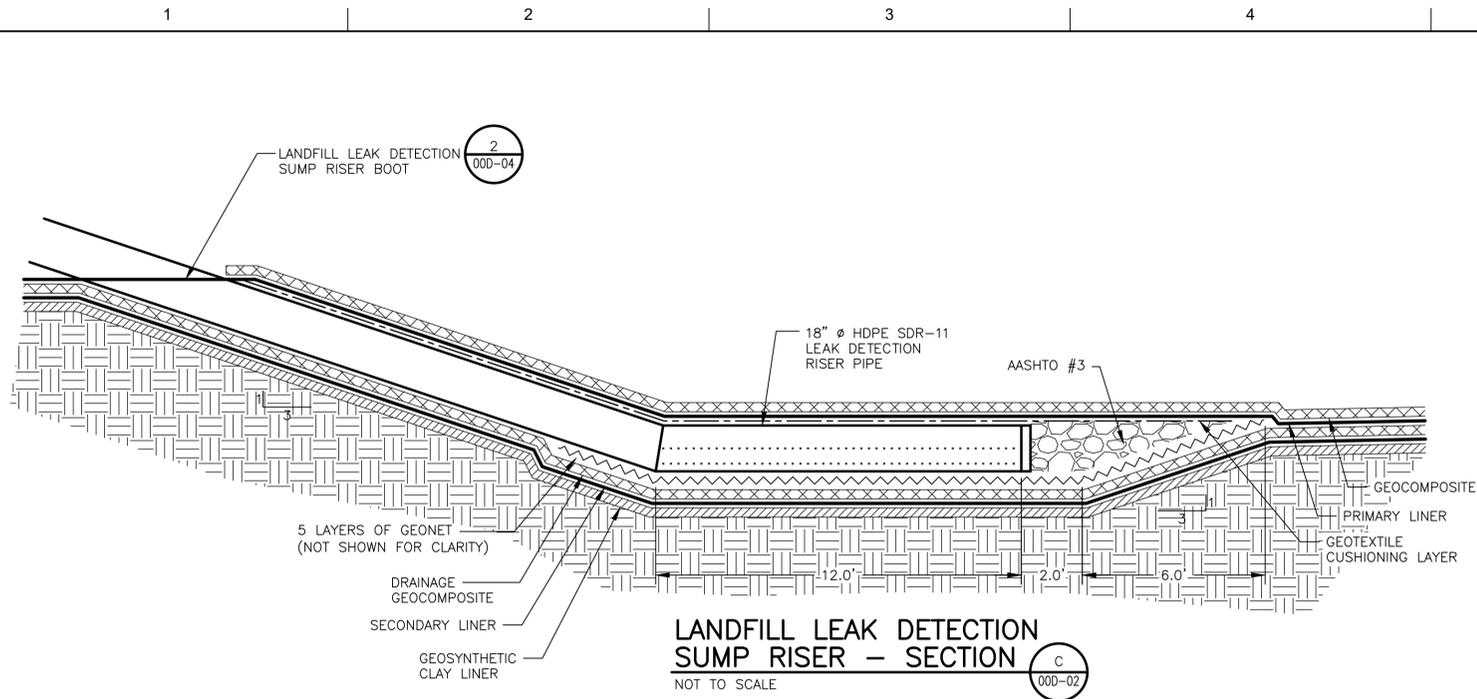
STEELFIELD ROAD LANDFILL EXPANSION

BAY COUNTY **FLORIDA**

CELL CONSTRUCTION DETAILS (SHEET 3 OF 5)

FILENAME	00D-03.dwg
SCALE	AS SHOWN

SHEET 00D-03



NOTES:
 1. THE GRAVEL PACK SHOWN IS THE MINIMUM REQUIREMENT AT THE SUMP. HOWEVER, BETWEEN CELLS 6A AND 6B A GRAVEL INTRACELL BERM IS CONSTRUCTED TO MANAGE LEACHATE/STORMWATER. THIS BERM IS NOT SHOWN FOR CLARITY.



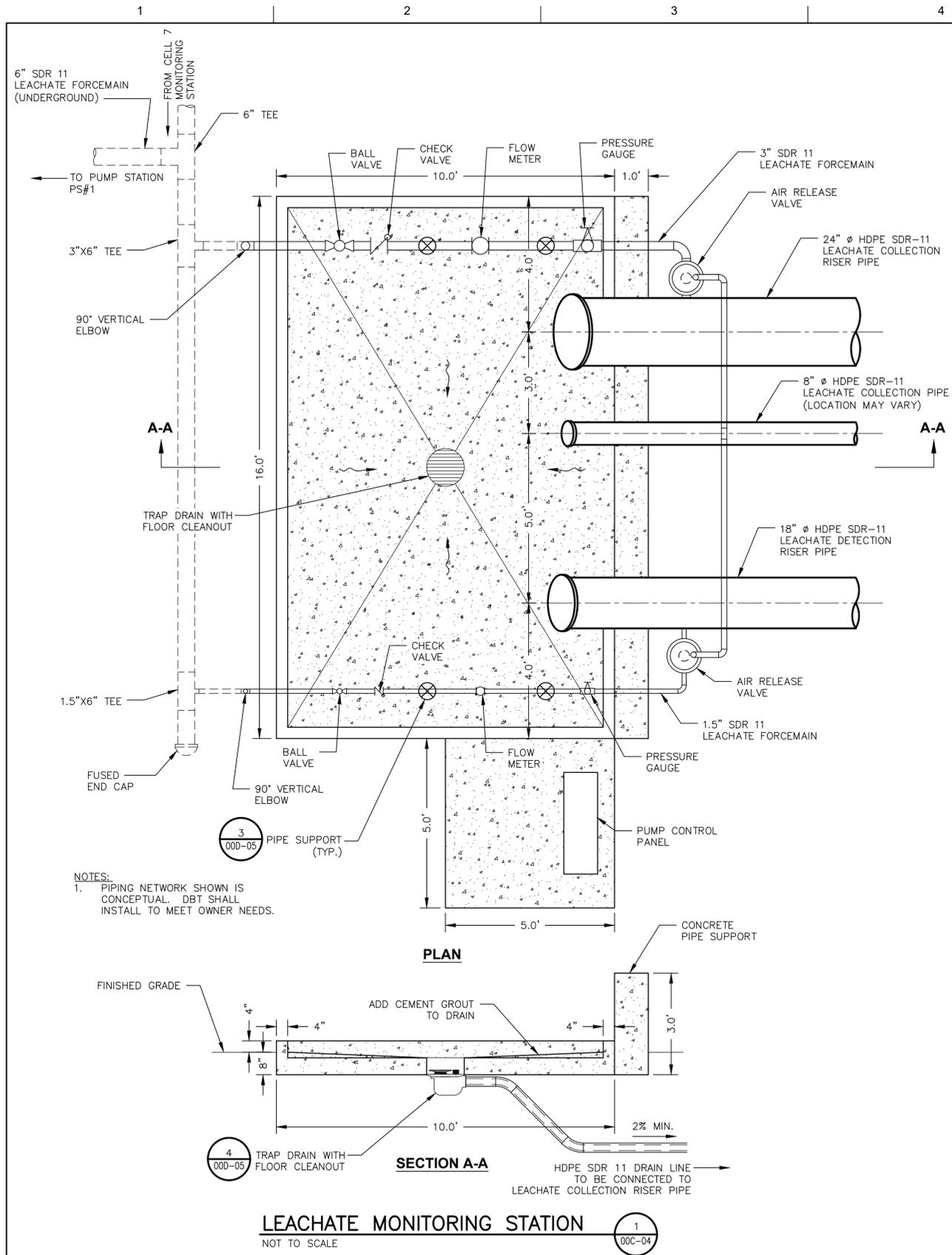
ISSUE	DATE	DESCRIPTION
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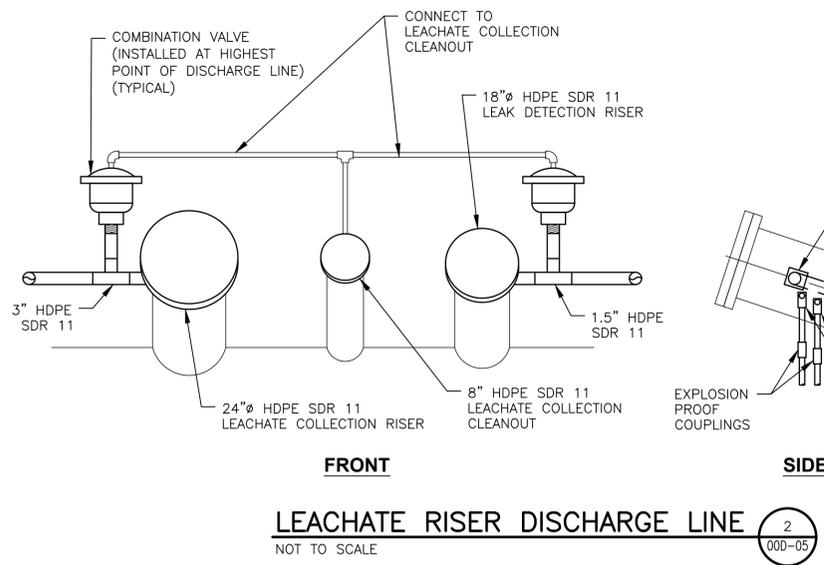


STEELFIELD ROAD LANDFILL EXPANSION
 BAY COUNTY FLORIDA

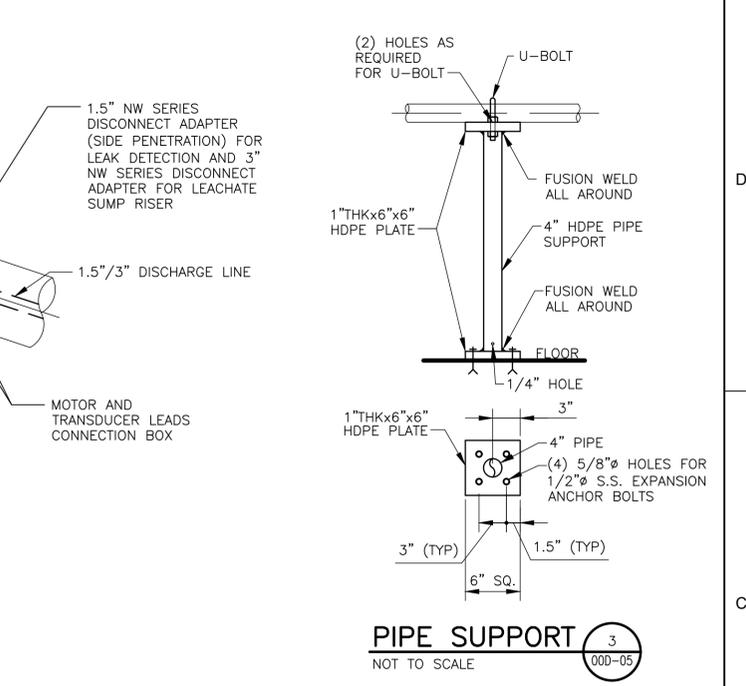
CELL CONSTRUCTION DETAILS (SHEET 4 OF 5)
 SCALE AS SHOWN
 FILENAME 00D-04.dwg
 SHEET 00D-04



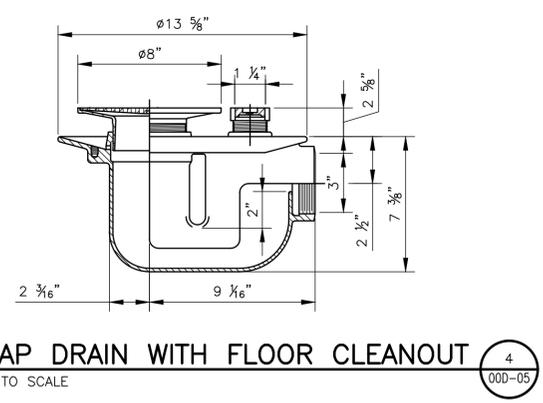
LEACHATE MONITORING STATION (1) 000-04
NOT TO SCALE



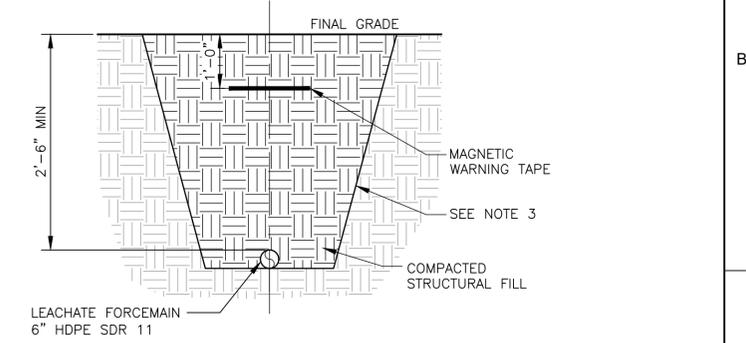
LEACHATE RISER DISCHARGE LINE (2) 000-05
NOT TO SCALE



PIPE SUPPORT (3) 000-05
NOT TO SCALE



TRAP DRAIN WITH FLOOR CLEANOUT (4) 000-05
NOT TO SCALE



LEACHATE FORCEMAIN TRENCH (5) 000-04
NOT TO SCALE

NOTES:
1. ACTUAL DEPTH OF TRENCH MAY VARY BASED ON FIELD CONDITIONS.
2. ALL PIPES SHALL HAVE A MINIMUM OF 2.5' OF COVER UNLESS NOTED OTHERWISE.
3. TRENCH WALLS MUST BE SLOPED OR HAVE APPROPRIATE SHORING PROVIDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL SAFETY STANDARDS.



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STEELFIELD ROAD LANDFILL EXPANSION

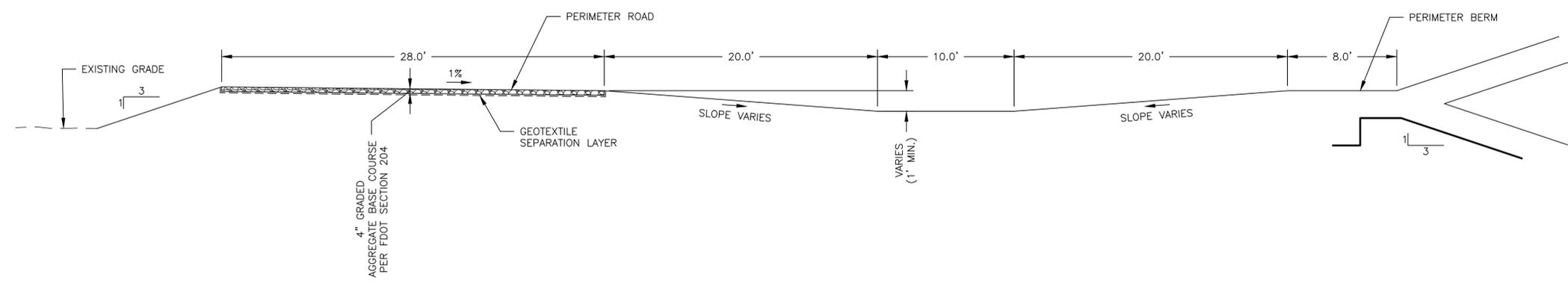
BAY COUNTY **FLORIDA**

CELL CONSTRUCTION DETAILS (SHEET 5 OF 5)

0 1" 2"

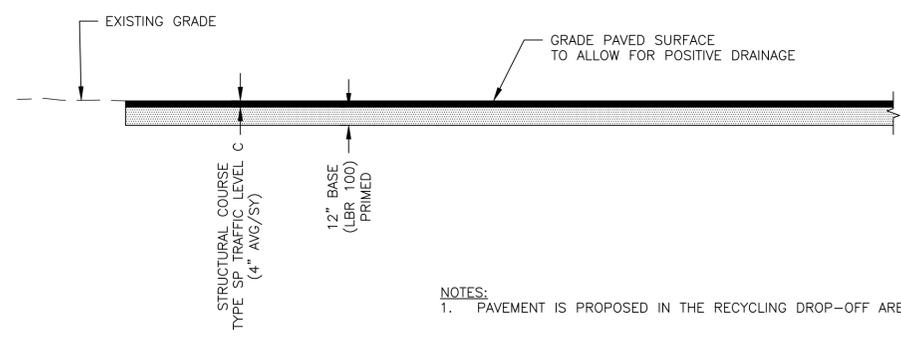
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SCALE | AS SHOWN

SHEET | **00D-05**



PERIMETER ROAD
NOT TO SCALE

1
00C-03



NOTES:
1. PAVEMENT IS PROPOSED IN THE RECYCLING DROP-OFF AREA.

PAVED ROAD
NOT TO SCALE

2
00C-02



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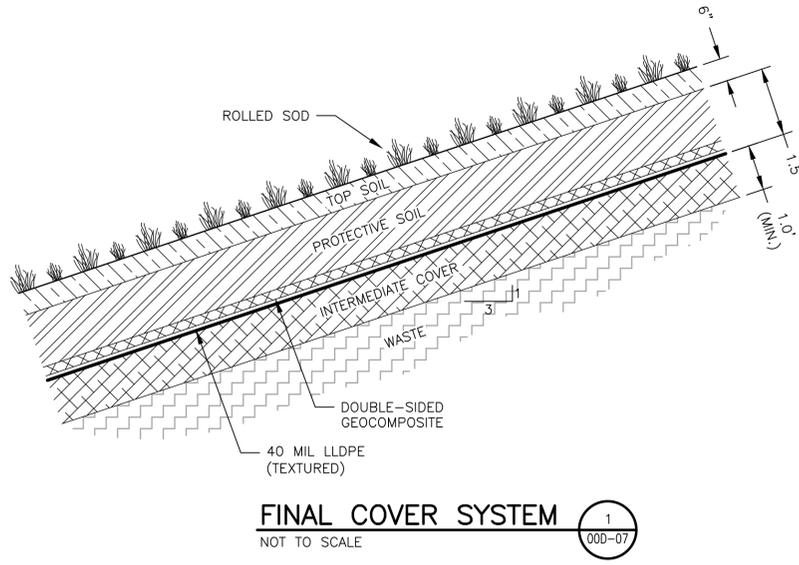
STEELFIELD ROAD LANDFILL EXPANSION

BAY COUNTY  **FLORIDA**

MISCELLANEOUS DETAILS

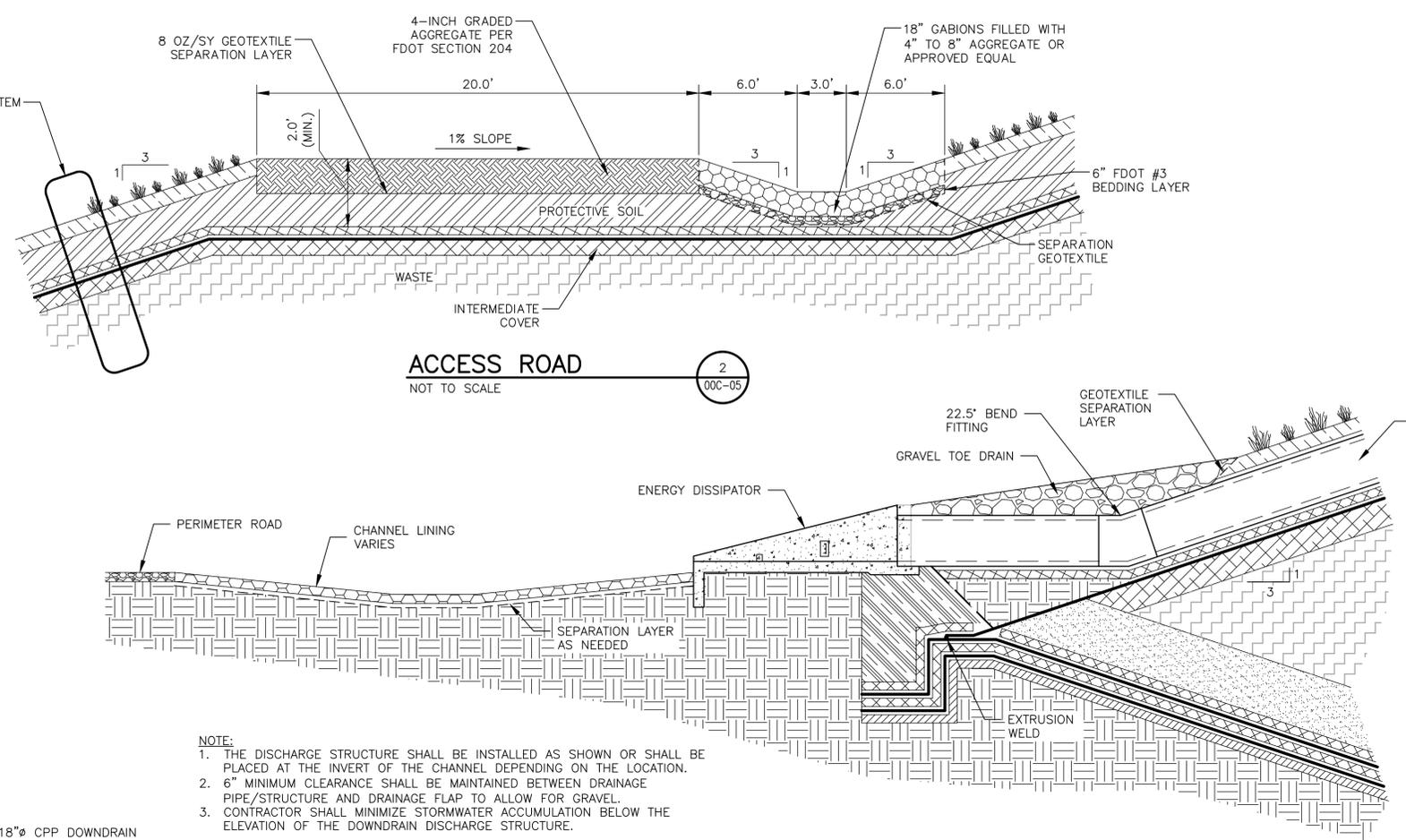
0 1" 2"
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 SCALE | AS SHOWN

SHEET
00D-06



FINAL COVER SYSTEM
NOT TO SCALE

FINAL COVER SYSTEM
000-07



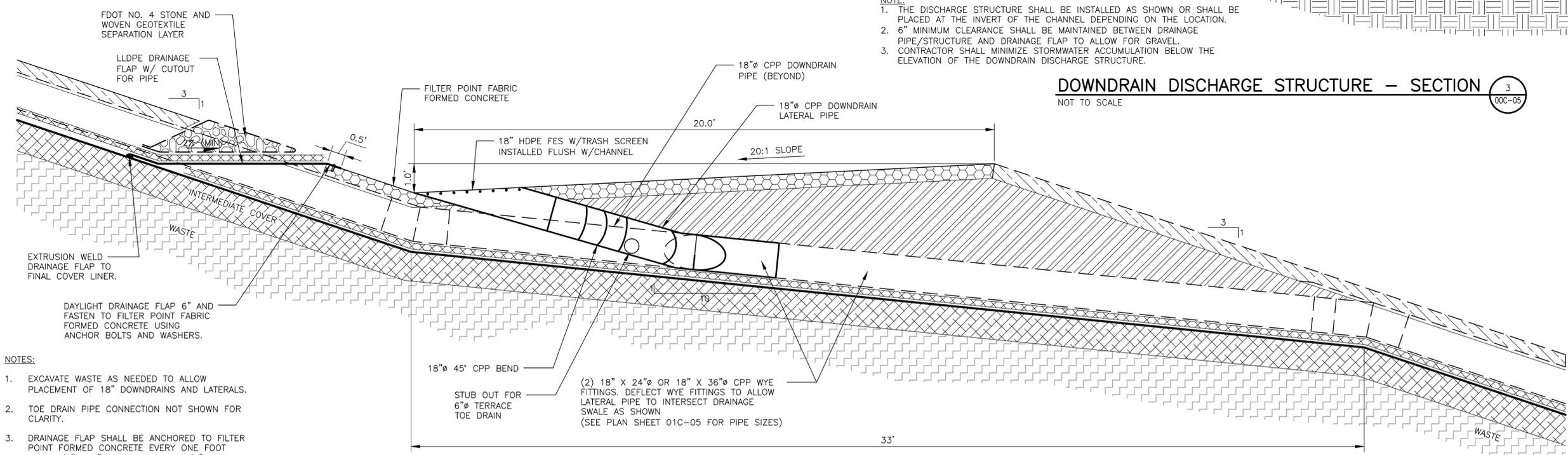
ACCESS ROAD
NOT TO SCALE

2
00C-05

- NOTE:**
1. THE DISCHARGE STRUCTURE SHALL BE INSTALLED AS SHOWN OR SHALL BE PLACED AT THE INVERT OF THE CHANNEL DEPENDING ON THE LOCATION.
 2. 6" MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN DRAINAGE PIPE/STRUCTURE AND DRAINAGE FLAP TO ALLOW FOR GRAVEL.
 3. CONTRACTOR SHALL MINIMIZE STORMWATER ACCUMULATION BELOW THE ELEVATION OF THE DOWNDRAIN DISCHARGE STRUCTURE.

DOWNDRAIN DISCHARGE STRUCTURE - SECTION
NOT TO SCALE

3
00C-05



DOWNDRAIN - SECTION
NOT TO SCALE

4
00C-05

- NOTES:**
1. EXCAVATE WASTE AS NEEDED TO ALLOW PLACEMENT OF 18" DOWNDRAINS AND LATERALS.
 2. TOE DRAIN PIPE CONNECTION NOT SHOWN FOR CLARITY.
 3. DRAINAGE FLAP SHALL BE ANCHORED TO FILTER POINT FABRIC FORMED CONCRETE EVERY ONE FOOT WITH 1/2" X 4" ANCHOR AND 1 1/2" S.S. WASHER.



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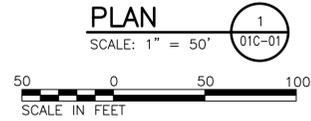
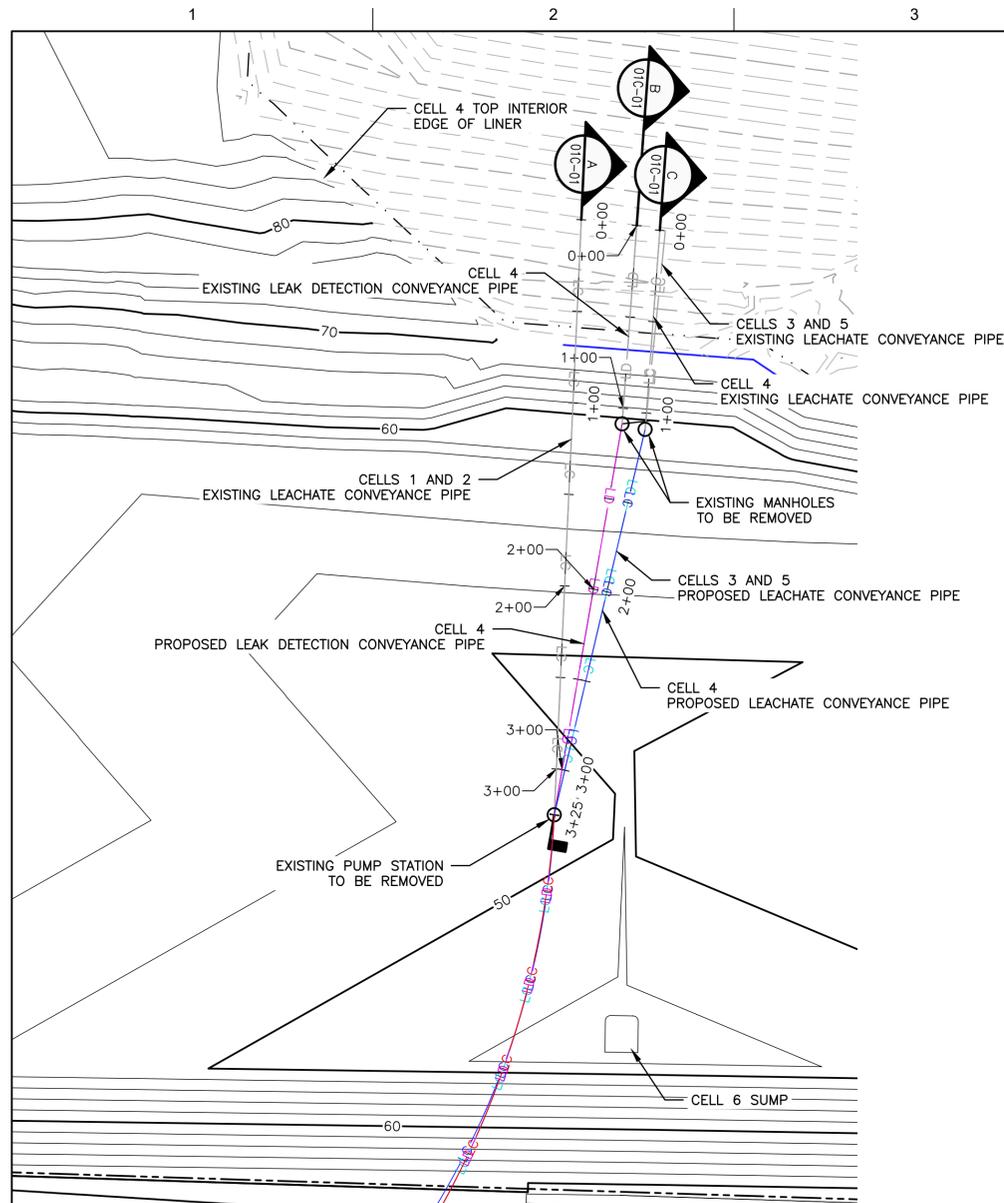
BAY COUNTY **FLORIDA**

FINAL COVER DETAILS (NIC)

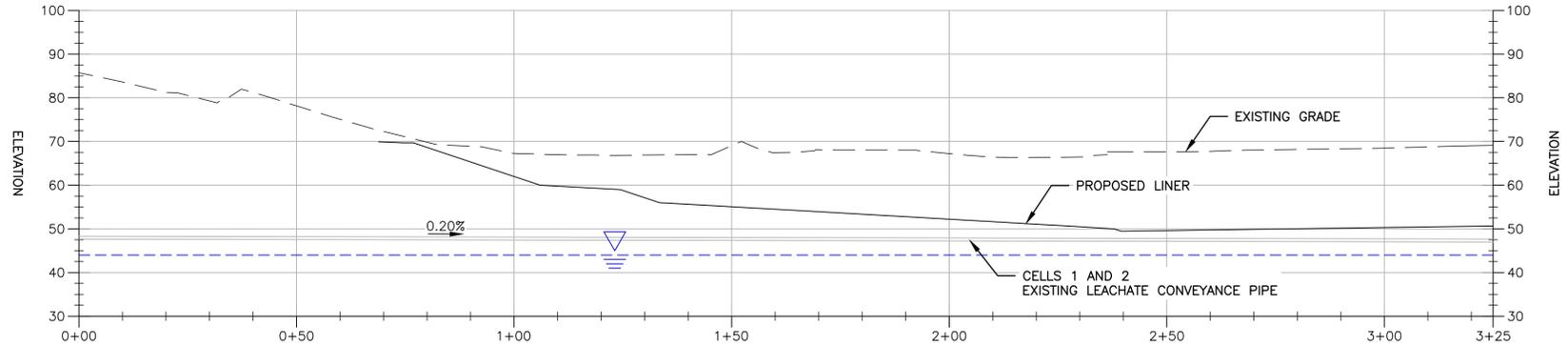
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FILENAME | 00D-07.dwg
SCALE | AS SHOWN

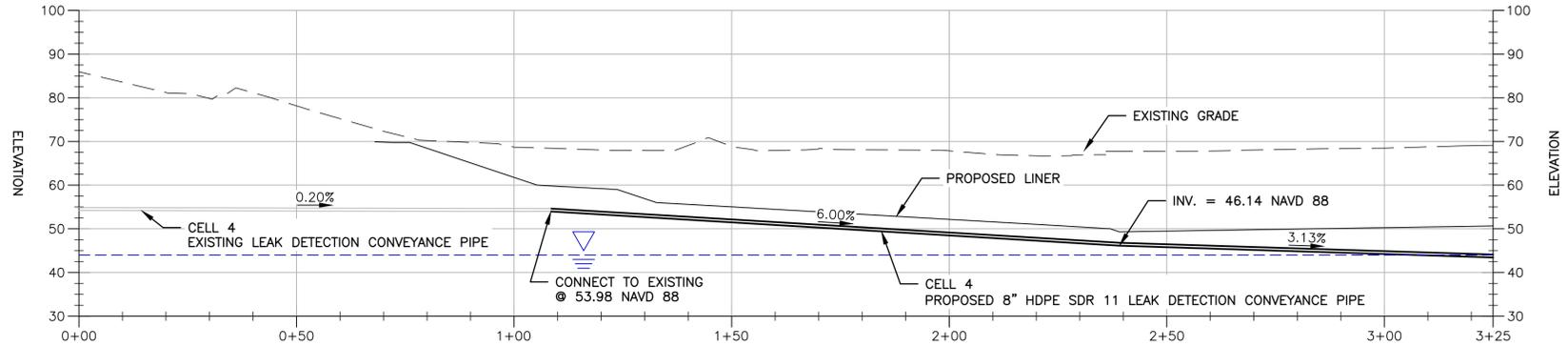
SHEET | **00D-07**



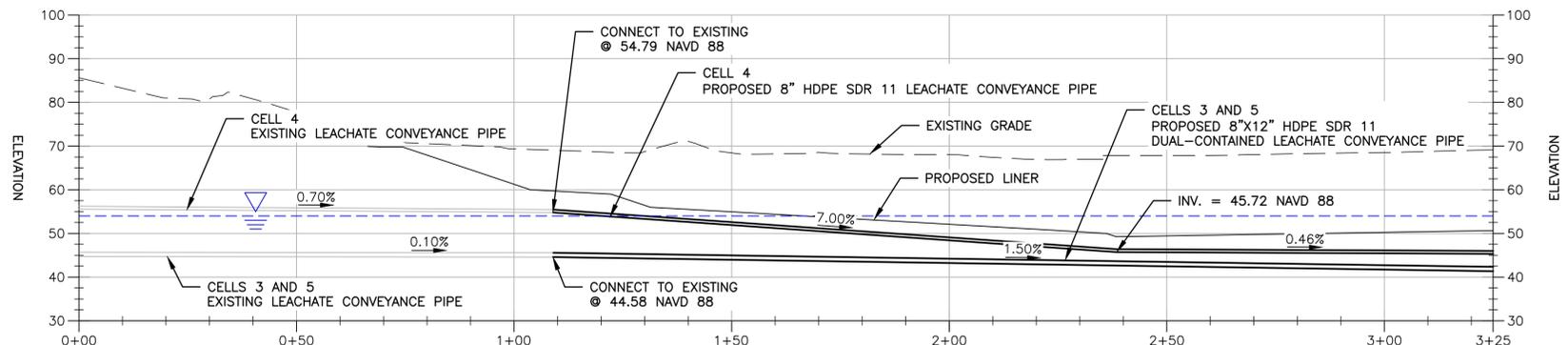
- PLAN LEGEND**
- EXISTING MINOR CONTOUR
 - 40 EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - 40 PROPOSED MAJOR CONTOUR
 - LC EXISTING LEACHATE CONVEYANCE PIPE
 - LD EXISTING LEAK CONVEYANCE PIPE
 - LC PROPOSED CELLS 1 AND 2 LEACHATE CONVEYANCE PIPE
 - LC PROPOSED CELLS 3 AND 5 LEACHATE CONVEYANCE PIPE
 - LC PROPOSED CELL 4 LEACHATE CONVEYANCE PIPE
 - LD PROPOSED CELL 4 LEAK DETECTION CONVEYANCE PIPE



CELLS 1 AND 2 LEACHATE CONVEYANCE PROFILE
SCALE: 1" = 20'



CELL 4 LEAK DETECTION CONVEYANCE PROFILE
SCALE: 1" = 20'



CELLS 3, 4, AND 5 LEACHATE CONVEYANCE PROFILE
SCALE: 1" = 20'



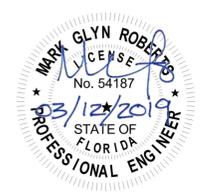
- PROFILE LEGEND**
- EXISTING GRADE
 - PROPOSED GRADE
 - GROUNDWATER (SEASONAL HIGH WATER TABLE)

- NOTES:**
1. EXISTING TOPOGRAPHIC SURVEY BASED ON LIDAR DATA OBTAINED FROM BAY COUNTY, FLORIDA, DATED 2006 AND GROUND SURVEYS PERFORMED BY BAY COUNTY PUBLIC WORKS DEPARTMENT, DATED 03/21/17 AND 02/22/18. THE MINIMUM CLEARANCE BETWEEN BOTTOM OF LINER AND TOP OF PIPE IS 2 FEET.
 2. GROUNDWATER DEWATERING REQUIRED.



ISSUE	DATE	DESCRIPTION
B	03/08/2019	ADDENDUM #2 TO RFP NO. 19-33
A	02/11/2019	ISSUED FOR RFP NO. 19-33

PROJECT MANAGER	M. ROBERTS, P.E.
DESIGNED BY	K. PERERA, P.E.
DRAWN BY	J. RAYMOND
CHECKED BY	M. ROBERTS, P.E.
CHECKED BY	T. YANOSCHAK, P.E.
PROJECT NUMBER	10150537

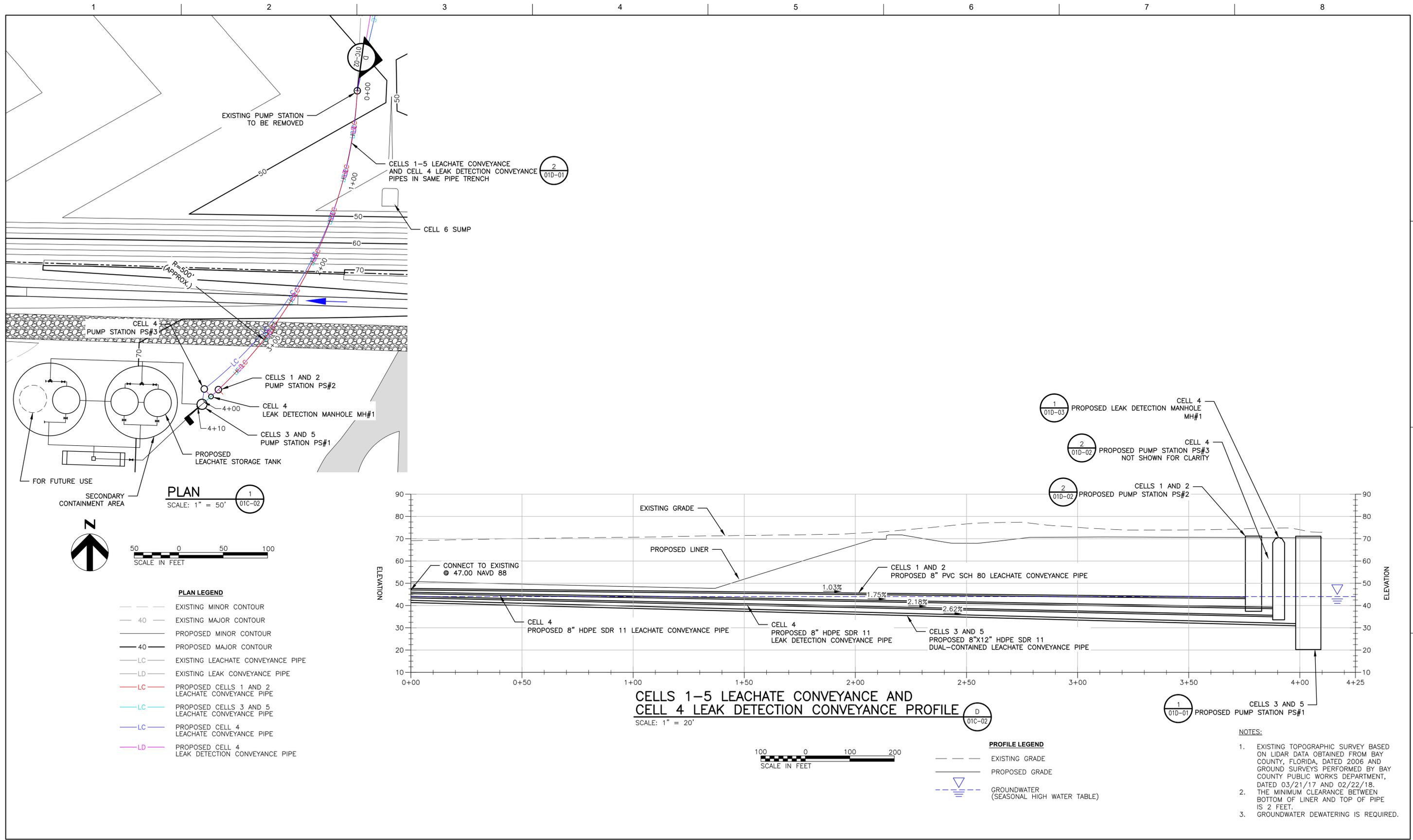


STEELFIELD ROAD LANDFILL EXPANSION

BAY COUNTY FLORIDA

MODIFICATION TO EXISTING LEACHATE TRANSMISSION SYSTEM: PLAN AND PROFILE (SHEET 1 OF 2)

FILENAME: 01C-01.dwg
SCALE: AS SHOWN
SHEET: 01C-01



- PLAN LEGEND**
- EXISTING MINOR CONTOUR
 - 40 EXISTING MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - 40 PROPOSED MAJOR CONTOUR
 - LC EXISTING LEACHATE CONVEYANCE PIPE
 - LD EXISTING LEAK CONVEYANCE PIPE
 - LC PROPOSED CELLS 1 AND 2 LEACHATE CONVEYANCE PIPE
 - LC PROPOSED CELLS 3 AND 5 LEACHATE CONVEYANCE PIPE
 - LC PROPOSED CELL 4 LEACHATE CONVEYANCE PIPE
 - LD PROPOSED CELL 4 LEAK DETECTION CONVEYANCE PIPE

- PROFILE LEGEND**
- EXISTING GRADE
 - PROPOSED GRADE
 - GROUNDWATER (SEASONAL HIGH WATER TABLE)

- NOTES:**
1. EXISTING TOPOGRAPHIC SURVEY BASED ON LIDAR DATA OBTAINED FROM BAY COUNTY, FLORIDA, DATED 2006 AND GROUND SURVEYS PERFORMED BY BAY COUNTY PUBLIC WORKS DEPARTMENT, DATED 03/21/17 AND 02/22/18. THE MINIMUM CLEARANCE BETWEEN BOTTOM OF LINER AND TOP OF PIPE IS 2 FEET.
 2. GROUNDWATER DEWATERING IS REQUIRED.



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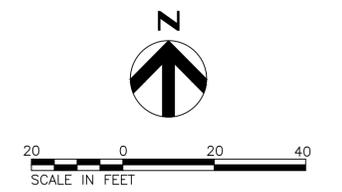
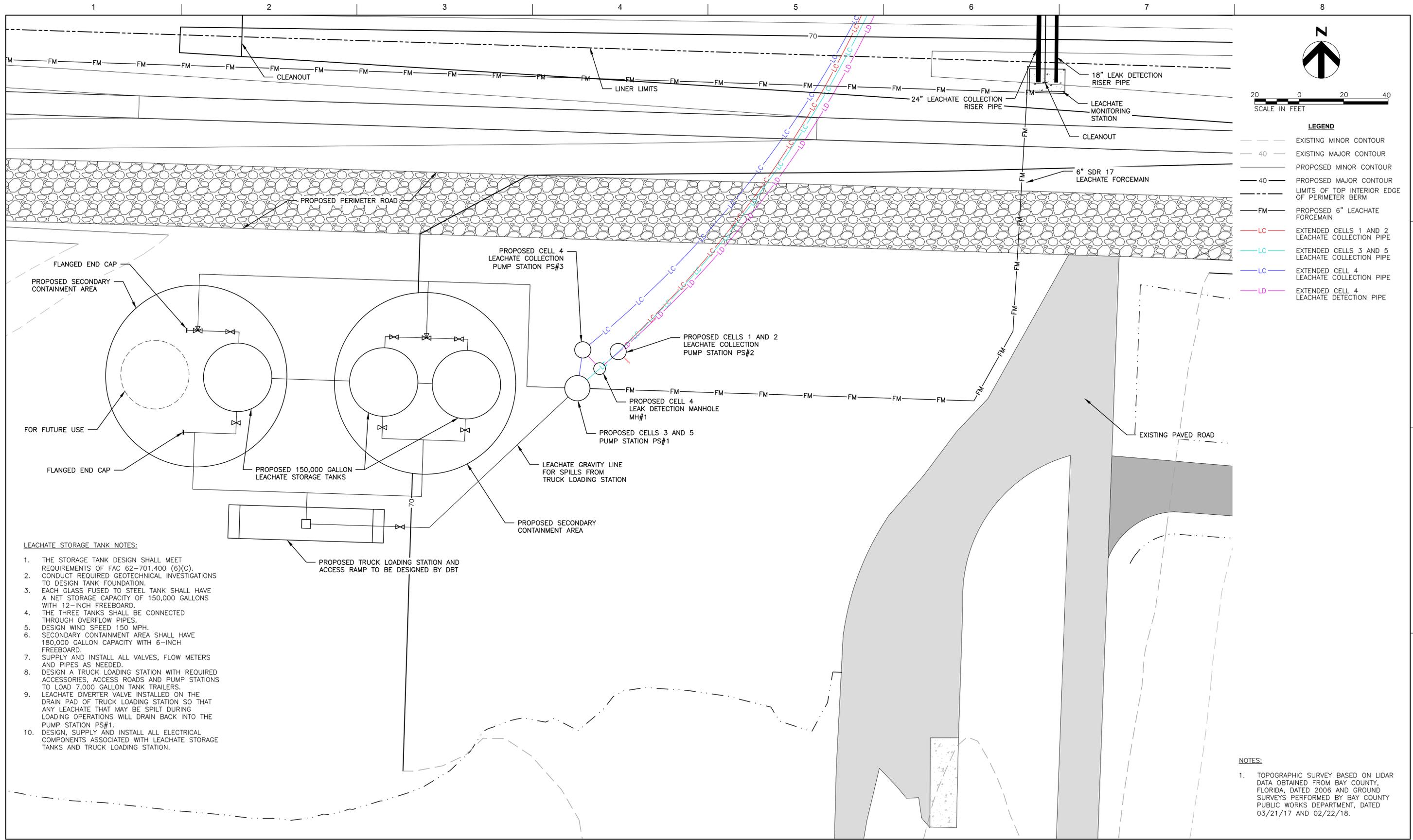
STEELFIELD ROAD LANDFILL EXPANSION

BAY COUNTY FLORIDA

MODIFICATION TO EXISTING LEACHATE TRANSMISSION SYSTEM: PLAN AND PROFILE (SHEET 2 OF 2)

FILENAME: 01C-02.dwg
SCALE: AS SHOWN

SHEET: 01C-02



- LEGEND**
- - - EXISTING MINOR CONTOUR
 - - - EXISTING MAJOR CONTOUR
 - - - PROPOSED MINOR CONTOUR
 - - - PROPOSED MAJOR CONTOUR
 - - - LIMITS OF TOP INTERIOR EDGE OF PERIMETER BERM
 - FM - PROPOSED 6" LEACHATE FORCEMAIN
 - LC - EXTENDED CELLS 1 AND 2 LEACHATE COLLECTION PIPE
 - LC - EXTENDED CELLS 3 AND 5 LEACHATE COLLECTION PIPE
 - LC - EXTENDED CELL 4 LEACHATE COLLECTION PIPE
 - LD - EXTENDED CELL 4 LEACHATE DETECTION PIPE

- LEACHATE STORAGE TANK NOTES:**
1. THE STORAGE TANK DESIGN SHALL MEET REQUIREMENTS OF FAC 62-701.400 (6)(C).
 2. CONDUCT REQUIRED GEOTECHNICAL INVESTIGATIONS TO DESIGN TANK FOUNDATION.
 3. EACH GLASS FUSED TO STEEL TANK SHALL HAVE A NET STORAGE CAPACITY OF 150,000 GALLONS WITH 12-INCH FREEBOARD.
 4. THE THREE TANKS SHALL BE CONNECTED THROUGH OVERFLOW PIPES.
 5. DESIGN WIND SPEED 150 MPH.
 6. SECONDARY CONTAINMENT AREA SHALL HAVE 180,000 GALLON CAPACITY WITH 6-INCH FREEBOARD.
 7. SUPPLY AND INSTALL ALL VALVES, FLOW METERS AND PIPES AS NEEDED.
 8. DESIGN A TRUCK LOADING STATION WITH REQUIRED ACCESSORIES, ACCESS ROADS AND PUMP STATIONS TO LOAD 7,000 GALLON TANK TRAILERS.
 9. LEACHATE DIVERTER VALVE INSTALLED ON THE DRAIN PAD OF TRUCK LOADING STATION SO THAT ANY LEACHATE THAT MAY BE SPILT DURING LOADING OPERATIONS WILL DRAIN BACK INTO THE PUMP STATION PS#1.
 10. DESIGN, SUPPLY AND INSTALL ALL ELECTRICAL COMPONENTS ASSOCIATED WITH LEACHATE STORAGE TANKS AND TRUCK LOADING STATION.

- NOTES:**
1. TOPOGRAPHIC SURVEY BASED ON LIDAR DATA OBTAINED FROM BAY COUNTY, FLORIDA, DATED 2006 AND GROUND SURVEYS PERFORMED BY BAY COUNTY PUBLIC WORKS DEPARTMENT, DATED 03/21/17 AND 02/22/18.



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CHECKED BY	T. YANOSCHAK, P.E.
PROJECT NUMBER	10150537



STEELFIELD ROAD LANDFILL EXPANSION

BAY COUNTY  **FLORIDA**

LEACHATE STORAGE TANKS PLAN

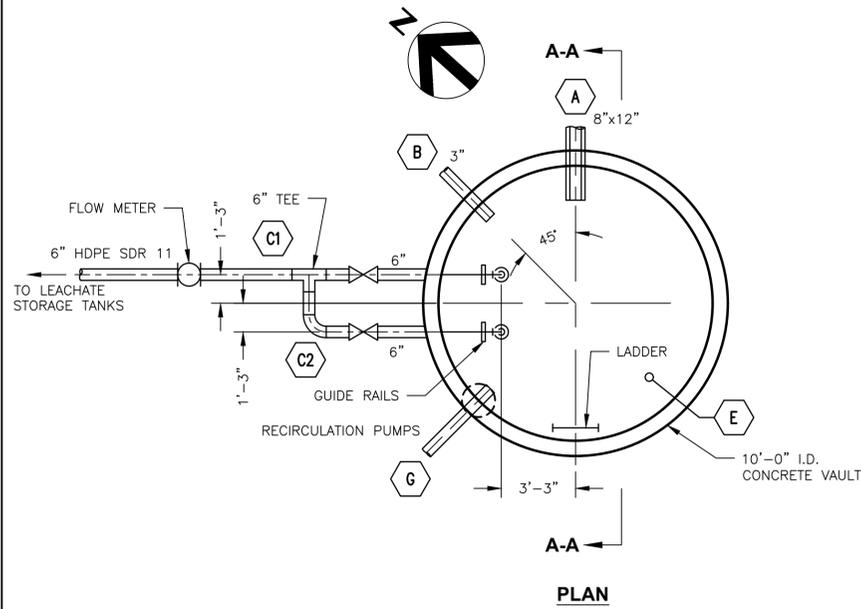
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SCALE 1" = 20'

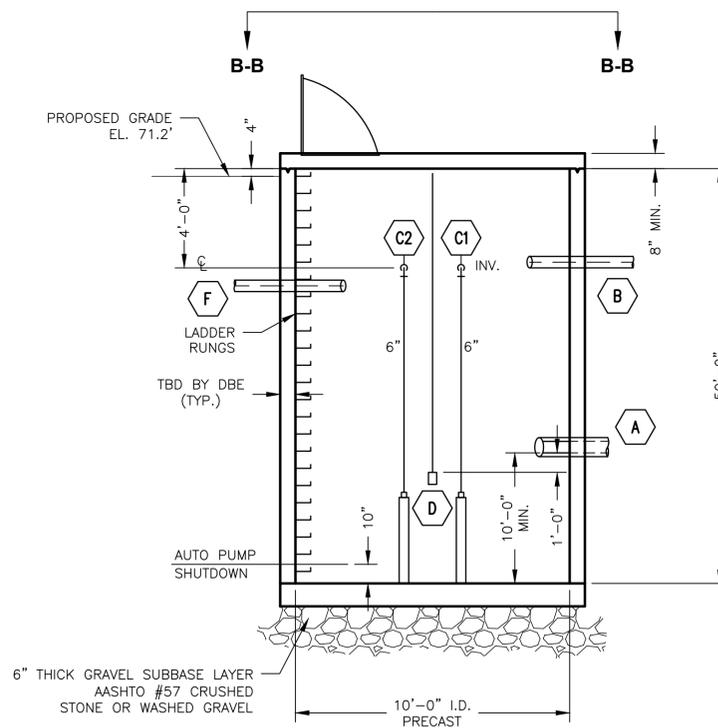
NOZZLE	SIZE	DESCRIPTION	ELEV.
A	8"x12"	GRAVITY DRAIN FROM CELLS 3 & 5	30.90
B	3"	PUMP DISCHARGE FROM PS#3	67.20
C1	6"	PUMP DISCHARGE TO LEACHATE STORAGE TANK	67.20
C2	6"	PUMP DISCHARGE TO LEACHATE STORAGE TANK	67.20
D	-	HIGH LEVEL FLOAT SWITCH	29.90
E	6"	VENT	-
F	TBD BY DBE	GRAVITY DRAIN FROM TRUCK LOADING STATION	TBD

NOTES:

1. ALL NOZZLE CONNECTIONS THROUGH WALL OF PUMP STATION SHALL BE FIELD WELDED (EXTRUSION WELDS). LOCATIONS SHALL BE AS INDICATED UNLESS MODIFIED FOR CONSTRUCTION LEVEL DETAIL TO BEST FIT FIELD CONDITIONS. CO-ORDINATE LOCATIONS WITH PRECAST VAULTS AND BOXES.
2. PENETRATIONS MAY BE MADE AT ANGLES THAT DIFFER FROM THOSE SHOWN, AND IN A DIFFERENT ARRANGEMENT DEPENDING UPON LOCATION.
3. TWO PUMPS AS SPECIFIED REQUIRED. ONE ACTS AS STAND-BY.
4. DBT SHALL DESIGN PUMP STATIONS TO MEET REQUIRED STRUCTURAL LOADS.



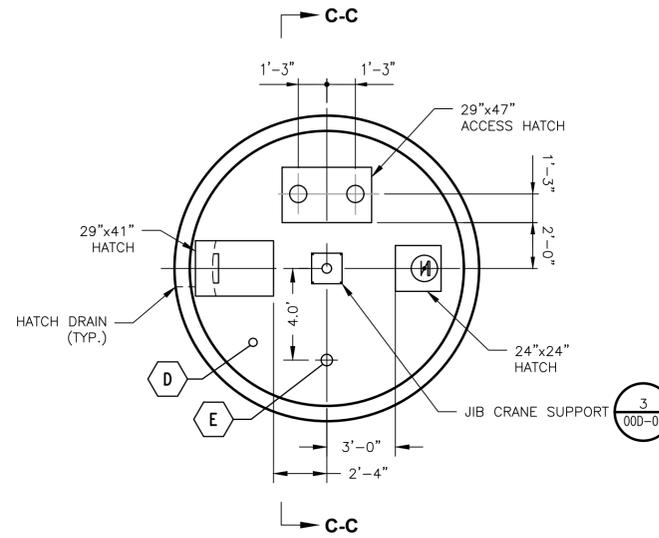
PLAN



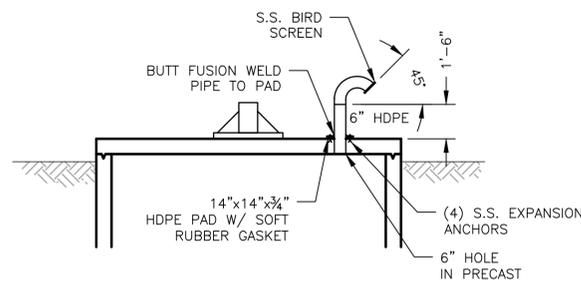
SECTION A-A

PUMP STATION #1 (PS#1)

NOT TO SCALE

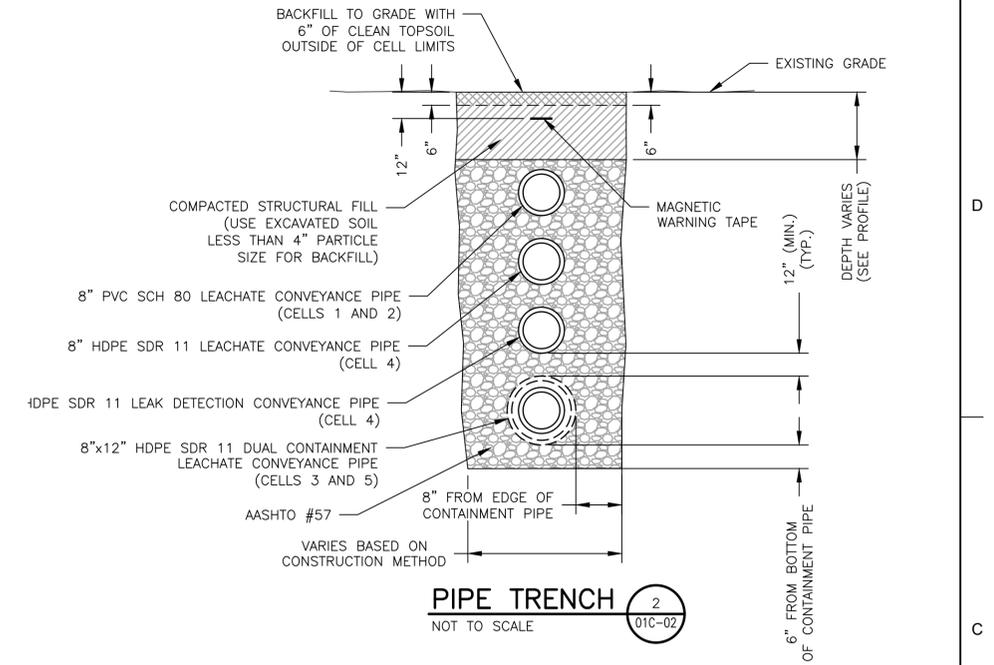


SECTION B-B

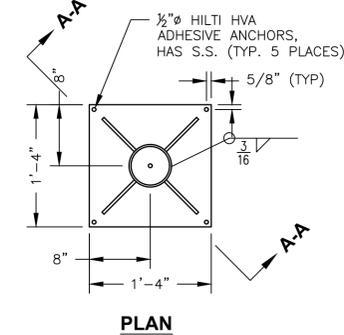


SECTION C-C

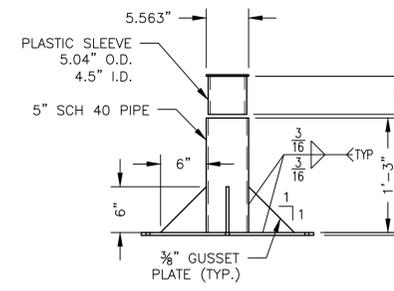
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01C-02



PIPE TRENCH 2
NOT TO SCALE 01C-02



PLAN



SECTION A-A

NOTES:

1. SUPPORT SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.

JIB CRANE SUPPORT 3

NOT TO SCALE 01D-01



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CHECKED BY	T. YANOSCHAK, P.E.
PROJECT NUMBER	10150537



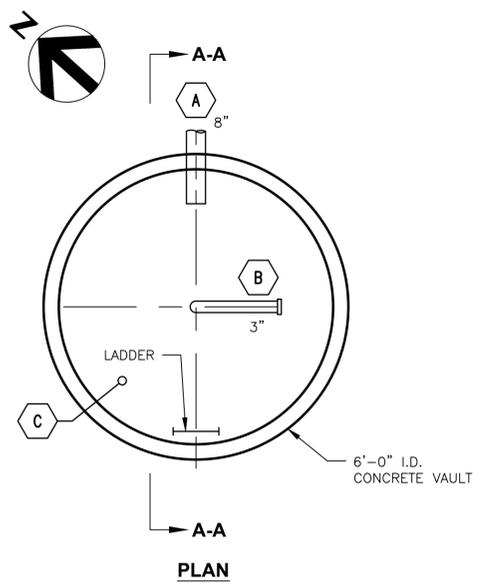
STEELFIELD ROAD LANDFILL EXPANSION
BAY COUNTY **FLORIDA**

LEACHATE TRANSMISSION SYSTEM DETAILS
(SHEET 1 OF 3)



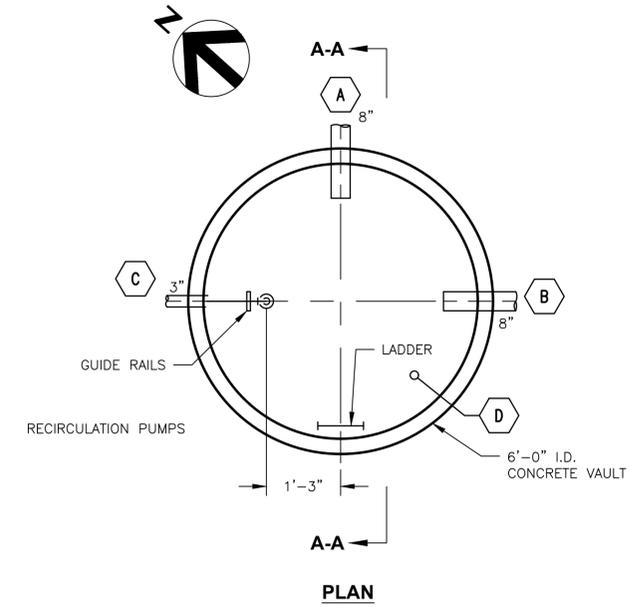
FILENAME | 01D-01.dwg
SCALE | AS SHOWN

SHEET
01D-01



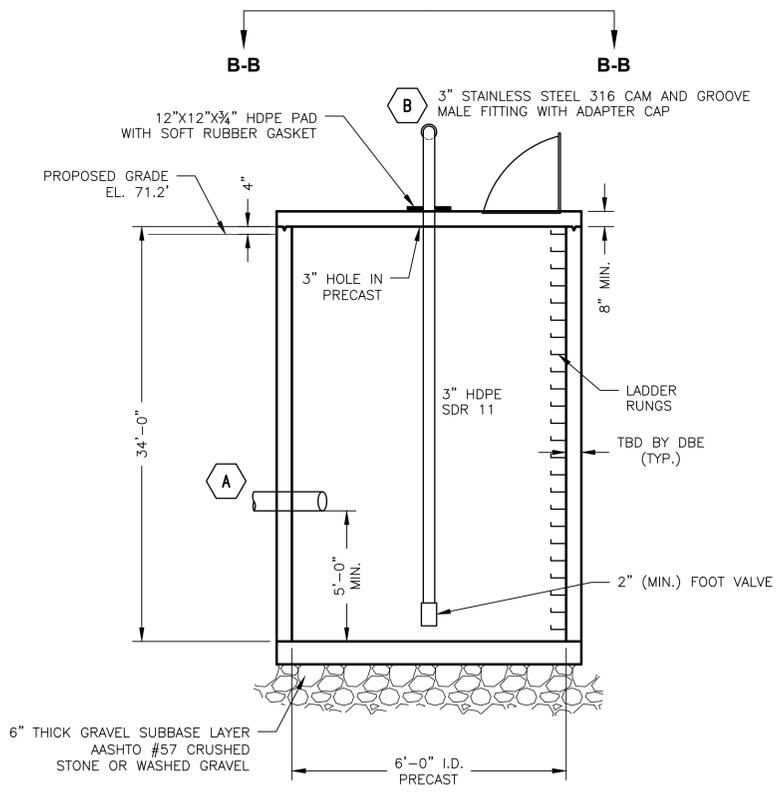
NOZZLE	SIZE	DESCRIPTION	ELEV.
A	8"	GRAVITY PVC SCH80 DRAIN FROM CELLS 1 & 2	43.09
B	3"	STAINLESS STEEL 316 CAM AND GROOVE MALE FITTING WITH ADAPTER CAP	-
C	6"	VENT	-

- NOTES:**
1. ALL NOZZLE CONNECTIONS THROUGH WALL OF PUMP STATION SHALL BE FIELD WELDED (EXTRUSION WELDS). LOCATIONS SHALL BE AS INDICATED UNLESS MODIFIED FOR CONSTRUCTION LEVEL DETAIL TO BEST FIT FIELD CONDITIONS. CO-ORDINATE LOCATIONS WITH PRECAST VAULTS AND BOXES.
 2. PENETRATIONS MAY BE MADE AT ANGLES THAT DIFFER FROM THOSE SHOWN, AND IN A DIFFERENT ARRANGEMENT DEPENDING UPON LOCATION.
 3. DBT SHALL DESIGN PUMP STATIONS TO MEET REQUIRED STRUCTURAL LOADS.
 4. BAY COUNTY WILL INSTALL A PERMANENT PUMP IF NEEDED IN THE FUTURE.

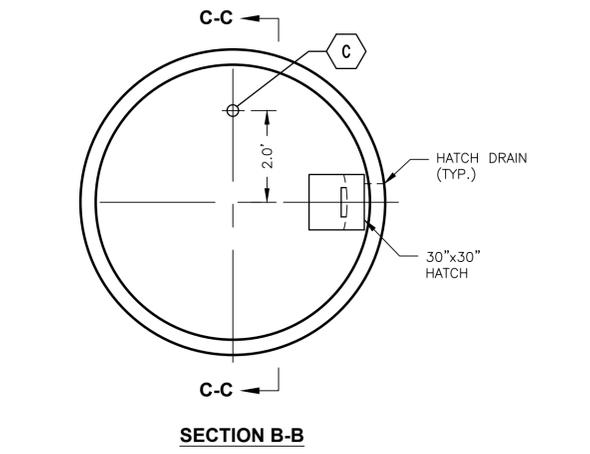


NOZZLE	SIZE	DESCRIPTION	ELEV.
A	8"	GRAVITY DRAIN FROM CELL 4	38.45
B	8"	GRAVITY DRAIN FROM MH#1	34.92
C	3"	PUMP DISCHARGE TO PS#1	67.53
D	-	HIGH LEVEL FLOAT SWITCH	33.92
E	6"	VENT	-

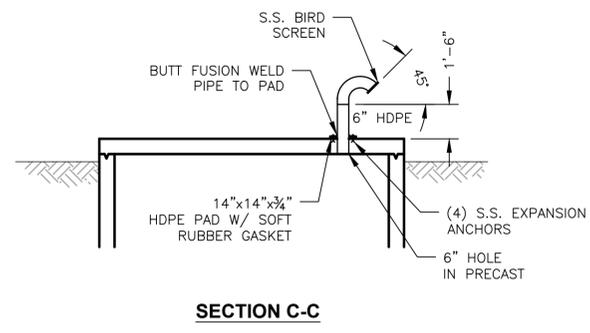
- NOTES:**
1. ALL NOZZLE CONNECTIONS THROUGH WALL OF PUMP STATION SHALL BE FIELD WELDED (EXTRUSION WELDS). LOCATIONS SHALL BE AS INDICATED UNLESS MODIFIED FOR CONSTRUCTION LEVEL DETAIL TO BEST FIT FIELD CONDITIONS. CO-ORDINATE LOCATIONS WITH PRECAST VAULTS AND BOXES.
 2. PENETRATIONS MAY BE MADE AT ANGLES THAT DIFFER FROM THOSE SHOWN, AND IN A DIFFERENT ARRANGEMENT DEPENDING UPON LOCATION.
 3. DBT SHALL DESIGN PUMP STATIONS TO MEET REQUIRED STRUCTURAL LOADS.



SECTION A-A
PUMP STATION #2 (PS#2)
 NOT TO SCALE

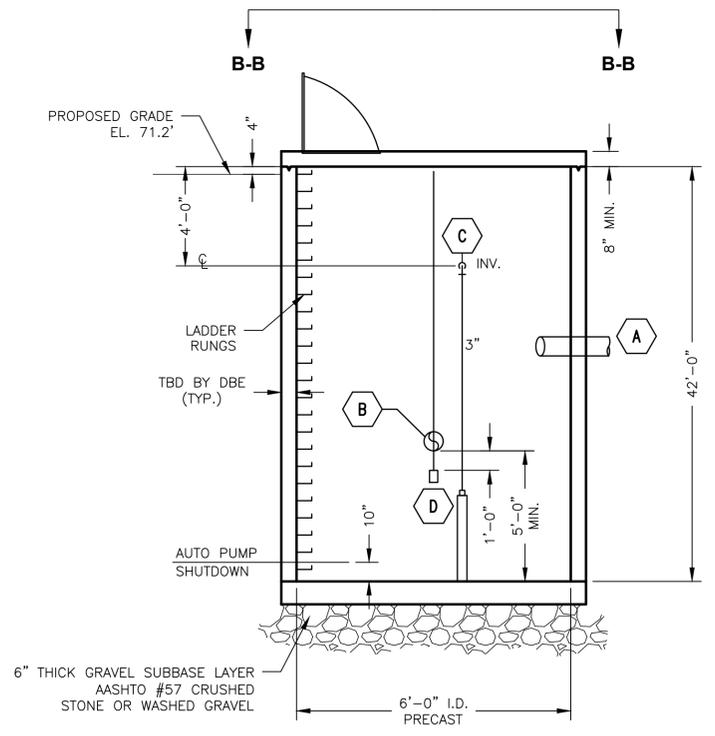


SECTION B-B

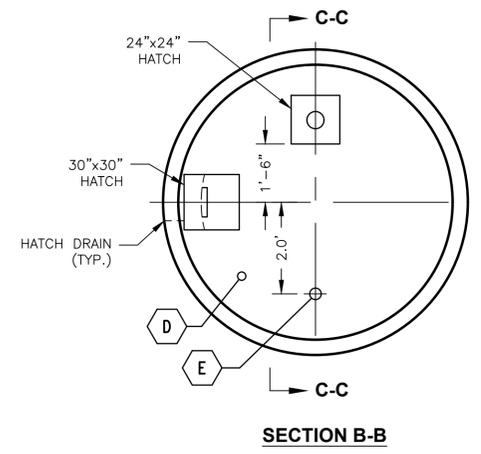


SECTION C-C

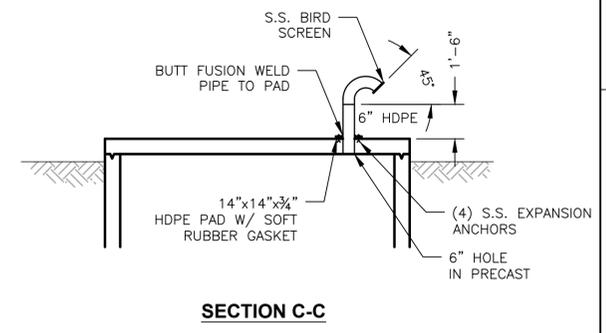
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01C-02



SECTION A-A
PUMP STATION #3 (PS#3)
 NOT TO SCALE



SECTION B-B



SECTION C-C

2
01C-02



ISSUE	DATE	DESCRIPTION
B	03/08/2019	ADDENDUM #2 TO RFP NO. 19-33
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PROJECT MANAGER	M. ROBERTS, P.E.
DESIGNED BY	K. PERERA, P.E.
DRAWN BY	J. RAYMOND
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CHECKED BY	T. YANOSCHAK, P.E.
PROJECT NUMBER	10150537

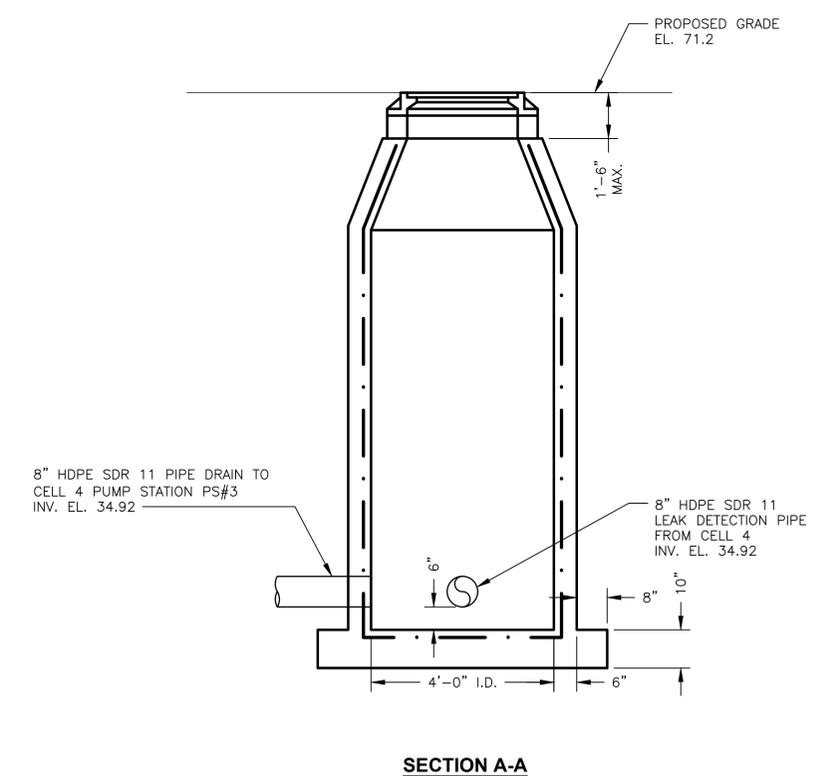
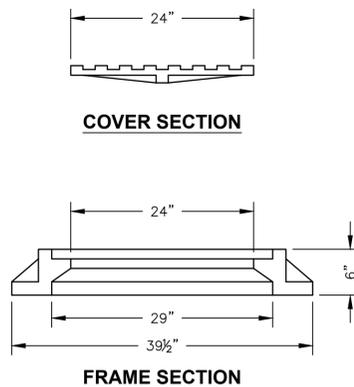
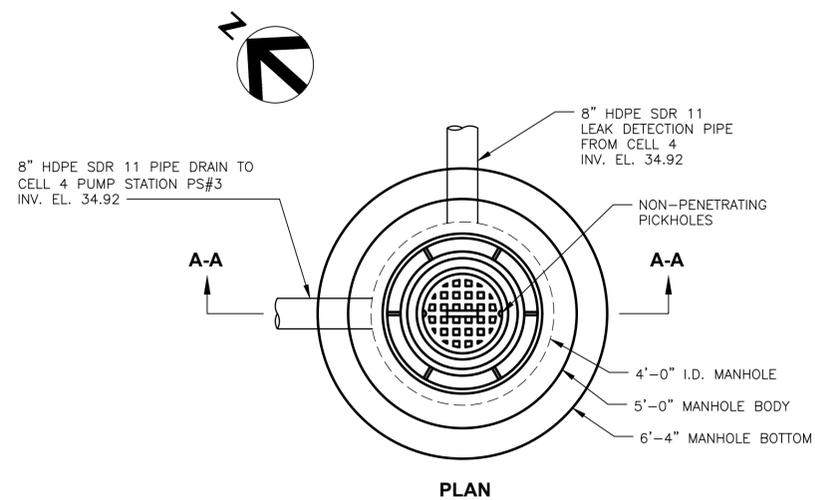


STEELFIELD ROAD LANDFILL EXPANSION
BAY COUNTY FLORIDA

LEACHATE TRANSMISSION SYSTEM DETAILS (SHEET 2 OF 3)

0 1" 2"
 FILENAME 01D-02.dwg
 SCALE AS SHOWN

SHEET
01D-02



- MANHOLE NOTES:**
1. MANHOLE FRAME & COVER WITH THE WORDS "LEACHATE" CAST IN THE COVER. U.S. FOUNDRY 310, 320 OR EQUAL.
 2. PRECAST CONCRETE PIPE CLASS IV WALL 6" CONFORMING TO ASTM C-76 OR C-478.
 3. MANHOLE COVER SEAL/INFLOW PROTECTION DEVICE.
 4. 4' DIAMETER MANHOLE TO BE USED.
- STRUCTURAL NOTES:**
- DBT SHALL DESIGN MANHOLE TO MEET REQUIRED STRUCTURAL LOADS.
- MANHOLE CASING NOTES:**
1. ALL BEARING SURFACES TO BE MACHINED.
 2. MANHOLE LID SHALL INDICATE TYPE OF UTILITY IN USE, I.E. "LEACHATE".

CELL 4 LEAK DETECTION MANHOLE MH#1
NOT TO SCALE

1
01C-02



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STEELFIELD ROAD LANDFILL EXPANSION

BAY COUNTY

FLORIDA

LEACHATE TRANSMISSION SYSTEM DETAILS
(SHEET 3 OF 3)

FILENAME | 01D-03.dwg
SCALE | AS SHOWN

SHEET
01D-03