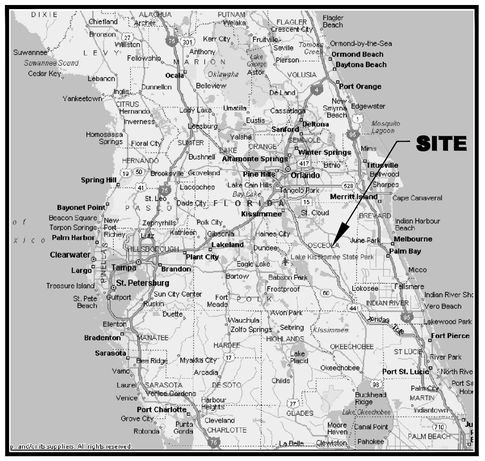
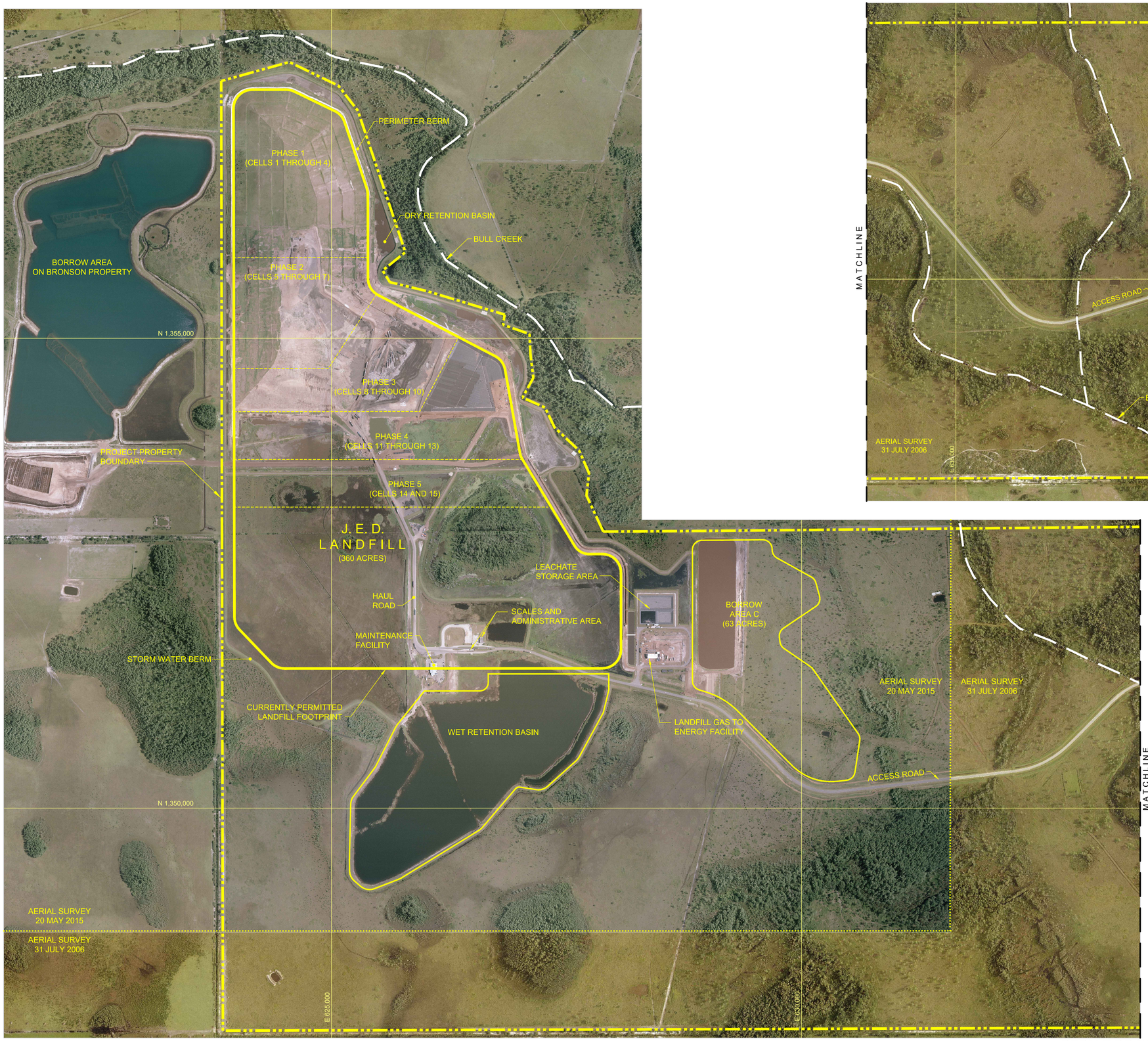
J.E.D. SOLID WASTE MANAGEMENT FACILITY

ST.CLOUD, FLORIDA

PHASES 1-5 RENEWAL PERMIT DRAWINGS

JUNE 2016


SITE
Orlando
Kissimmee
St. Cloud
Melbourne
Palm Bay
Titusville
Sanford
Deltona
Daytona Beach
Ormond Beach
Port Orange
Ocala
Tampa
St. Petersburg
Clearwater
Largo
Brandon
Plant City
Lakeland
Winter Haven
Bradenton
Sarasota
Venice
Port Charlotte
Port St. Lucie
Fort Pierce
Vero Beach
Merritt Island
Cape Canaveral
Spring Hill
Bayonet Point
Palm Harbour
Apopka
Altamonte Springs
Winter Springs
Haines City
Lake Wales
Avon Park
Sebring
Arcadia
Punta Gorda
Cedar Key
Suwannee
Yankeetown
Inverness
Leesburg
Eustis
Mount Dora
Deland
Palatka
Crescent City
Flagler Beach
Ormond-by-the-Sea
Edgewater
New Smyrna Beach
Mosquito Lagoon
Indian River Shc
Indian Harbour Beach
Melbourne Beach
Micco
Palmetto
Lakewood Park
Indiantown
Okeechobee
Moore Haven
Canal Point
Belle Glade
Pahokee
Clewiston
La Belle
Cleveland
Port Charlotte
Grove City
Rotonda
Venice Gardens
Harbour Heights
Myakka City
Bee Ridge
Vamo
Laurel
Nokomis
Duette
Ellenton
Palmetto
Gulfport
Kenneth City
Largo
Treasure Island
St. Pete Beach
Belleair
Clearwater
Safety Harbor
Oldsmar
Tarpon Springs
Beacon Square
Holiday
Port Richey
New Port Richey
Zephyrhills
Lutz
Odessa
Citrus Hills
Hernando
Floral City
Homosassa Springs
Brooksville
Spring Hill
Weeki Wachee
Crystal River
Inverness
Dunnellon
Belleview
Ocala
Silver Springs
Williston
Fellowship
Anthony
Kerr City
Micanopy
Hawthorne
Gainesville
Alachua
Archer
Chiefland
Bronson
Cedar Key
Suwannee
Lake City
Fort White
Branford
Live Oak
Wellborn
Mayo
Perry
Steinhatchee
Cross City
Chiefland
Williston
Ocala
Silver Springs
Dunnellon
Belleview
Lady Lake
Umatilla
Eustis
Tavares
Leesburg
Mount Dora
Apopka
Winter Garden
Ocoee
Orlando
Kissimmee
St. Cloud
Lake Wales
Haines City
Davenport
Kissimmee
Celebration
Poinciana
Lake Tohopekaliga
Lake Kissimmee State Park
Frostproof
Avon Park
Sebring
Zolfo Springs
Wauchula
Arcadia
Myakka City
Bee Ridge
Venice
Nokomis
Laurel
Vamo



N

0 500 1000

SCALE IN FEET

LEGEND

- PROPERTY BOUNDARY
- APPROXIMATE LOCATION OF INTERMITTENT STREAM
- AERIAL PHOTOGRAPH OVERLAP LIMIT

NOTES:

1. NORTHING AND EASTING COORDINATES SHOWN REPRESENT FLORIDA STATE PLANE EAST ZONE NORTH AMERICAN DATUM OF 1983 (NAD83).
2. THE PROPERTY BOUNDARY IS BASED ON A COMPOSITE BOUNDARY SURVEY PROVIDED BY JOHNSTON SURVEYING INC., KISSIMMEE FLORIDA, DATED AUGUST 12, 1999.
3. AERIAL PHOTOGRAPH DATED 20 MAY 2015 WAS PROVIDED BY BASE MAPPING CO. LTD.
4. AERIAL PHOTOGRAPH DATED 31 JULY 2006 WAS PROVIDED BY BASE MAPPING CO. LTD.

REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0990 - FX:813.558.9726
AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: EXISTING SITE CONDITIONS AND AERIAL PHOTOGRAPH

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE 6/15/2016 DATE

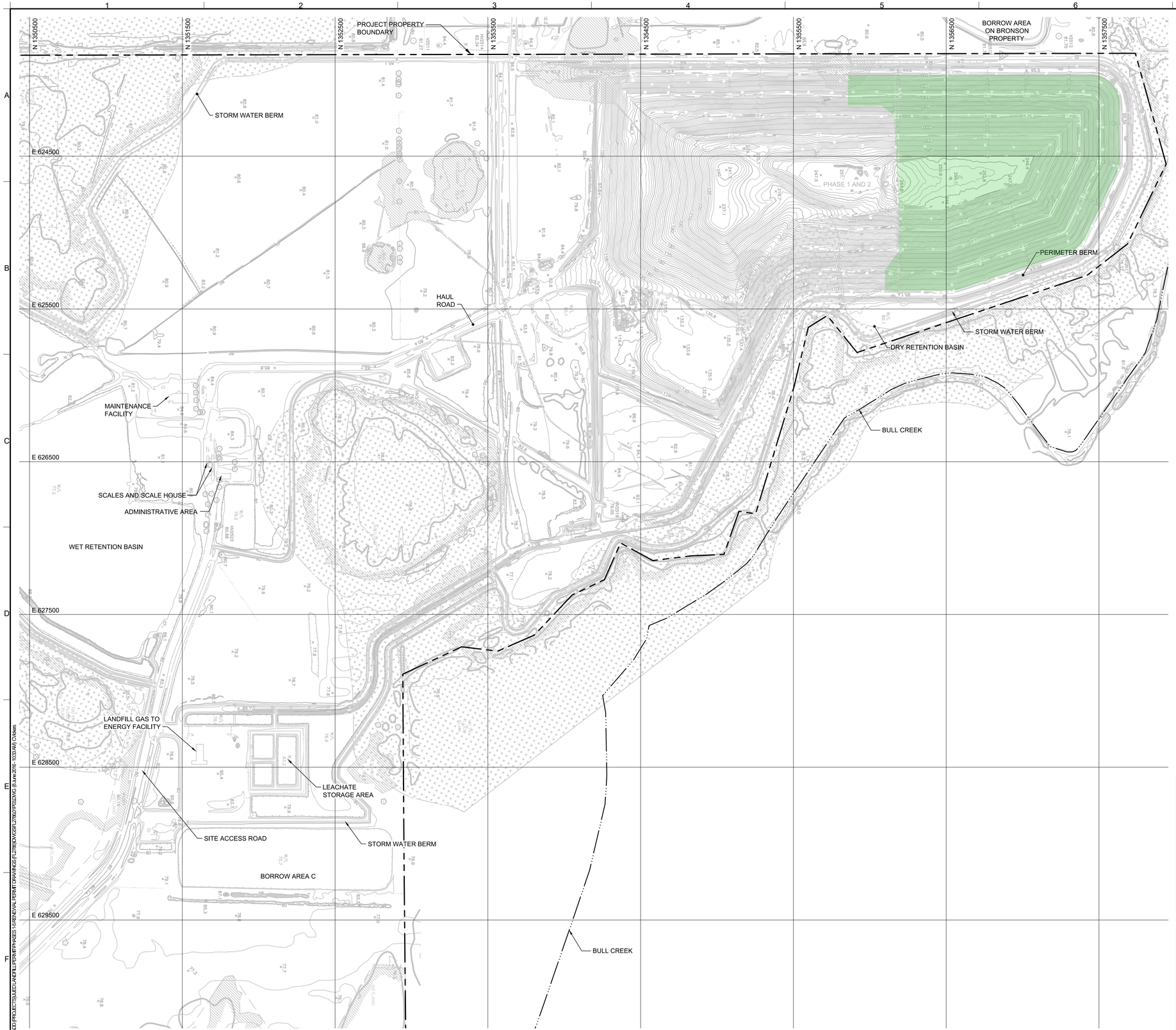
CRAIG R. BROWNE LICENSE No. 68813 STATE OF FLORIDA PROFESSIONAL ENGINEER

CRAIG BROWNE - LICENSE NO. 68813

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P02
REVIEWED BY:	KBT	DRAWING NO.:	2 OF 48
APPROVED BY:	CRB		

PERMIT DRAWING

I:_CADD\PROJECTS\JED LANDFILL\PERMIT\PHASES 1-5 RENEWAL PERMIT DRAWINGS\FL2786\DWGS\FL2786.01P02.DWG (13 June 2016 - 12:54 PM) CVMoses



N

0 300' 600'

SCALE IN FEET

LEGEND

- PROPERTY BOUNDARY
- APPROXIMATE LOCATION OF INTERMITTENT STREAM
- 80 EXISTING GROUND ELEVATION (FEET) (NOTE 3)
- EXISTING FENCE
- WETLAND BOUNDARY BY PHOTO INTERPRETATION BY BRA (NOTE 4)
- WETLAND BOUNDARY BY FIELD SURVEY (NOTE 4)
- 100-YEAR FLOODPLAIN (NOTE 5)
- EXISTING PARTIAL CLOSURE AREA

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. TOPOGRAPHIC INFORMATION SHOWN ON THIS DRAWING WAS PROVIDED BY BASE MAPPING CO. LTD BASED ON AN AERIAL PHOTOGRAPH TAKEN ON 20 MAY 2015.
4. THE WETLAND BOUNDARY INFORMATION SHOWN IS BASED ON: A FIELD SURVEY DATED 15 MAY 2002 BY JOHNSTON SURVEYING INC. OF WETLANDS BOUNDARIES FLAGGED BY BIOLOGICAL RESEARCH ASSOCIATES, INC. (BRA), THE EXISTING JURISDICTIONAL WETLAND DETERMINATIONS, A PHOTO INTERPRETATION OF WETLAND BOUNDARIES BY BRA IN AREAS OUTSIDE THE LIMITS OF CONSTRUCTION, AND A FIELD SURVEY DATED 24 NOVEMBER 2010 BY PEAVEY & ASSOCIATES OF WETLAND BOUNDARIES FLAGGED BY ENTRIX, INC.
5. THE 100-YEAR FLOODPLAIN BOUNDARY SHOWN WAS PROVIDED BY THE OSCEOLA COUNTY GIS DEPARTMENT ON JANUARY 9, 2002 AND RECONFIRMED WITH THE OSCEOLA COUNTY GIS DEPARTMENT ON 24 SEPTEMBER 2010.

REV	DATE	DESCRIPTION	DRN	APP
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Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0960 - FX:813.558.9726
AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: TOPOGRAPHIC MAP OF THE SITE

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE

6/15/2016

DATE

CRAIG BROWNE - LICENSE NO. 68613

CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P03
REVIEWED BY:	KBT	DRAWING NO.:	3 OF 48
APPROVED BY:	CRB		

PERMIT DRAWING

I:\CAD\PROJECTS\JED\ANDFILL\PERMIT\PHASES 1-5\RENEWAL PERMIT DRAWINGS\FL2786\DWGS\FL2786\DWGS\FL2786\PROLDWG (6 June 2016 - 10:33 AM) CVdavis

PERMIT DRAWING

N

0 200' 400'

SCALE IN FEET

LEGEND

- PROPERTY BOUNDARY
- APPROXIMATE LOCATION OF INTERMITTENT STREAM
- 80 — SUBBASE ELEVATION (FEET) (NOTE 5)
- WETLAND BOUNDARY BY PHOTO INTERPRETATION BY BRA (NOTE 3)
- WETLAND BOUNDARY BY FIELD SURVEY (NOTE 3)
- FPA — 100-YEAR FLOODPLAIN (NOTE 4)
- STORM WATER MANAGEMENT POND
- DP-2 — DIRECT PUSH / MONITORING WELL LOCATION
- SZ-1 — SHELL ZONE WELL LOCATION
- SB-1 — ROTOSONIC BORING LOCATION
- SPT-1 — STANDARD PENETRATION TEST (SPT) BORING LOCATION
- SPT-1(2010) — STANDARD PENETRATION TEST (SPT) BORING LOCATION PERFORMED BY GEOSYNTEC IN 2010

Point # (Note 6)	Northing	Easting	Top of Casing EL. (FT)	Ground EL. (FT)
DP-1	1,356,797.91	624,537.79	84.12	81.20
DP-2	1,356,802.93	624,536.96	84.11	81.20
DP-3	1,356,050.85	625,213.95	82.22	79.30
DP-4	1,356,053.84	625,219.58	82.24	79.30
DP-5	1,355,353.25	624,128.08	84.13	81.60
DP-6	1,355,356.37	624,125.45	84.23	81.60
DP-7	1,355,177.88	625,941.53	82.63	79.60
DP-8	1,355,182.23	625,941.31	82.78	79.60
DP-9	1,354,970.41	626,691.23	81.58	78.90
DP-10	1,354,970.16	626,687.84	81.59	78.90
DP-11	1,354,609.00	625,190.27	84.06	81.20
DP-12	1,354,604.52	625,187.66	84.18	81.20
DP-13	1,354,519.86	626,168.29	83.09	80.00
DP-14	1,354,321.35	626,873.19	81.97	78.90
DP-15	1,354,318.16	626,873.34	81.98	78.90
DP-16	1,354,048.17	626,132.23	82.57	79.50
DP-17	1,354,047.58	626,135.33	82.58	79.50
DP-18	1,353,592.44	624,195.90	84.38	81.20
DP-19	1,353,596.07	624,200.39	84.34	81.20
DP-20	1,353,034.67	625,503.33	83.07	79.80
DP-21	1,353,030.01	625,502.82	83.00	79.80
DP-22	1,353,637.77	627,171.49	81.00	78.30
DP-23	1,353,641.31	627,170.88	81.27	78.30
DP-24	1,353,736.22	626,342.40	82.22	79.20
SB-1	1,356,401.00	624,799.00	-	80.00

Point # (Note 6)	Northing	Easting	Top of Casing EL. (FT)	Ground EL. (FT)
SB-2	1,353,191.00	624,139.00	-	82.00
SB-3	1,353,810.00	626,532.00	-	79.20
SPT-1	1,354,289.00	626,692.00	-	79.30
SPT-2	1,353,510.00	625,606.00	-	79.40
SPT-3	1,354,291.00	625,595.00	-	80.10
SPT-4	1,355,198.00	625,604.00	-	80.20
SPT-5	1,354,300.00	624,151.00	-	82.30
SPT-6	1,355,211.00	624,613.00	-	80.80
SPT-7	1,356,067.00	624,448.00	-	80.40
SPT-8	1,356,792.00	624,996.00	-	80.10
SPT-9	1,356,781.00	624,156.00	-	81.50
SPT-10	1,357,317.00	624,503.00	-	81.00
SPT-11	1,351,994.00	624,604.00	-	80.70
SPT-12	1,351,602.00	625,635.00	-	80.40
SPT-13	1,351,240.00	626,443.00	-	81.10
SPT-14	1,350,398.00	626,102.00	-	81.00
SPT-15	1,349,802.00	625,707.00	-	80.70
SZ-1	1,355,170.25	625,942.43	82.43	79.60
SZ-2	1,353,030.47	625,511.10	83.16	79.80
SZ-3	1,353,629.43	627,175.45	81.27	78.30
SPT-1(2010)	1,352,101.58	626,189.62	-	79.93
SPT-2(2010)	1,353,558.01	626,553.26	-	78.79
SPT-3(2010)	1,352,965.21	627,387.97	-	78.22
SPT-4(2010)	1,352,714.69	627,035.50	-	77.46
SPT-5(2010)	1,351,944.10	626,526.17	-	83.54

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).
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5. PROPOSED SUBBASE GRADING IS SHOWN IN THE BACKGROUND TO ILLUSTRATE TEST LOCATIONS RELATIVE TO THE JED DISPOSAL FACILITY LAYOUT.
6. DP, SB, SPT, SZ, SPT (2010) GROUND ELEVATIONS CORRESPOND TO THE EXISTING ELEVATION AT THE TIME OF INSTALLATION / DRILLING.

REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0990 - FX:813.558.9726
AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: SITE CHARACTERIZATION PLAN I

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE 6/15/2016 DATE

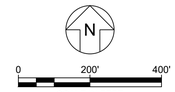
CRAIG BROWNE - LICENSE NO. 68813

CRAIG R. BROWNE LICENSE No. 68813 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P04
REVIEWED BY:	KBT	DRAWING NO.:	4 OF 48
APPROVED BY:	CRB		

L:\CADD\PROJECTS\JED LANDFILL\PERMIT\PHASES 1-5 RENEWAL PERMIT DRAWINGS\FL2786\DWGS\FL2786\DWGS\FL2786.01P04.DWG (8 June 2016 - 10:34 AM) CVolkers

PERMIT DRAWING



SCALE IN FEET

LEGEND

- PROPERTY BOUNDARY
- APPROXIMATE LOCATION OF INTERMITTENT STREAM
- 80 — SUBBASE ELEVATION (FEET) (NOTE 5)
- WETLAND BOUNDARY BY PHOTO INTERPRETATION BY BRA (NOTE 3)
- WETLAND BOUNDARY BY FIELD SURVEY (NOTE 3)
- FP — 100-YEAR FLOODPLAIN (NOTE 4)
- STORM WATER MANAGEMENT POND
- BORROW AREA BOUNDARY
- DP-2 — DIRECT PUSH / MONITORING WELL LOCATION
- SZ-1 — SHELL ZONE WELL LOCATION
- SB-1 — ROTOSONIC BORING LOCATION
- SPT-1 — STANDARD PENETRATION TEST (SPT) BORING LOCATION
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AUTHORIZATION NUMBER: 4321

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

TITLE:

SITE CHARACTERIZATION PLAN II

PROJECT:

PHASES 1-5 RENEWAL PERMIT DRAWINGS

SITE:

J.E.D. SOLID WASTE MANAGEMENT FACILITY

SIGNATURE
6/15/2016
DATE
CRAIG BROWNE - LICENSE NO. 68613

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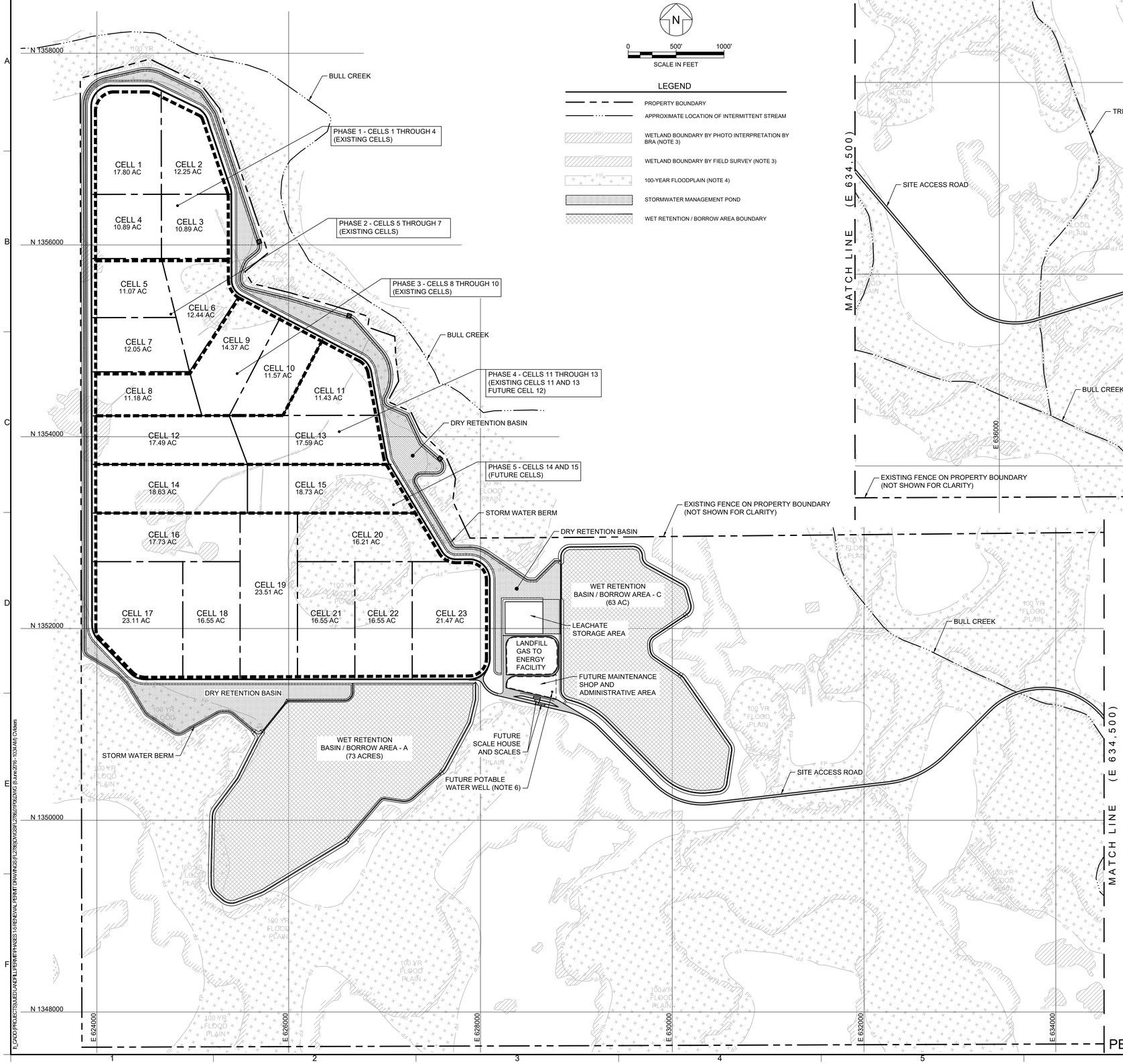
DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P04
REVIEWED BY:	KBT	DRAWING NO.:	5 OF 48
APPROVED BY:	CRB		

I:\CADD\PROJECTS\JED LANDFILL\PERMIT\PHASES 1-5\RENEWAL PERMIT DRAWINGS\FL2786\DWG\FL2786.01P04.DWG (8 June 2016 - 10:31 AM) CVbeers



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. THE WETLAND BOUNDARY INFORMATION SHOWN IS BASED ON: A FIELD SURVEY DATED 15 MAY 2002 BY JOHNSTON SURVEYING INC. OF WETLANDS BOUNDARIES FLAGGED BY BIOLOGICAL RESEARCH ASSOCIATES, INC. (BRA), THE EXISTING JURISDICTIONAL WETLAND DETERMINATIONS, A PHOTO INTERPRETATION OF WETLAND BOUNDARIES BY BRA IN AREAS OUTSIDE THE LIMITS OF CONSTRUCTION, AND A FIELD SURVEY DATED 24 NOVEMBER 2010 BY PEAVEY & ASSOCIATES OF WETLAND BOUNDARIES FLAGGED BY ENTRIX, INC.
4. THE 100-YEAR FLOODPLAIN BOUNDARY SHOWN WAS PROVIDED BY THE OSCEOLA COUNTY GIS DEPARTMENT ON JANUARY 9, 2002 AND RECONFIRMED WITH THE OSCEOLA COUNTY GIS DEPARTMENT ON 24 SEPTEMBER 2010.
5. THE CELL ACREAGES ON THIS SHEET CORRESPOND TO THE LINED AREA AS MEASURED TO THE EDGE OF LINER MARKER (SEE DETAIL ON SHEET 15).
6. FUTURE POTABLE WATER WELL TO BE CONSTRUCTED PRIOR TO PLACEMENT OF WASTE IN CELL 19.

PERMIT DRAWING

REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0990 - FX:813.558.9726
AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: SITE DEVELOPMENT PLAN

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

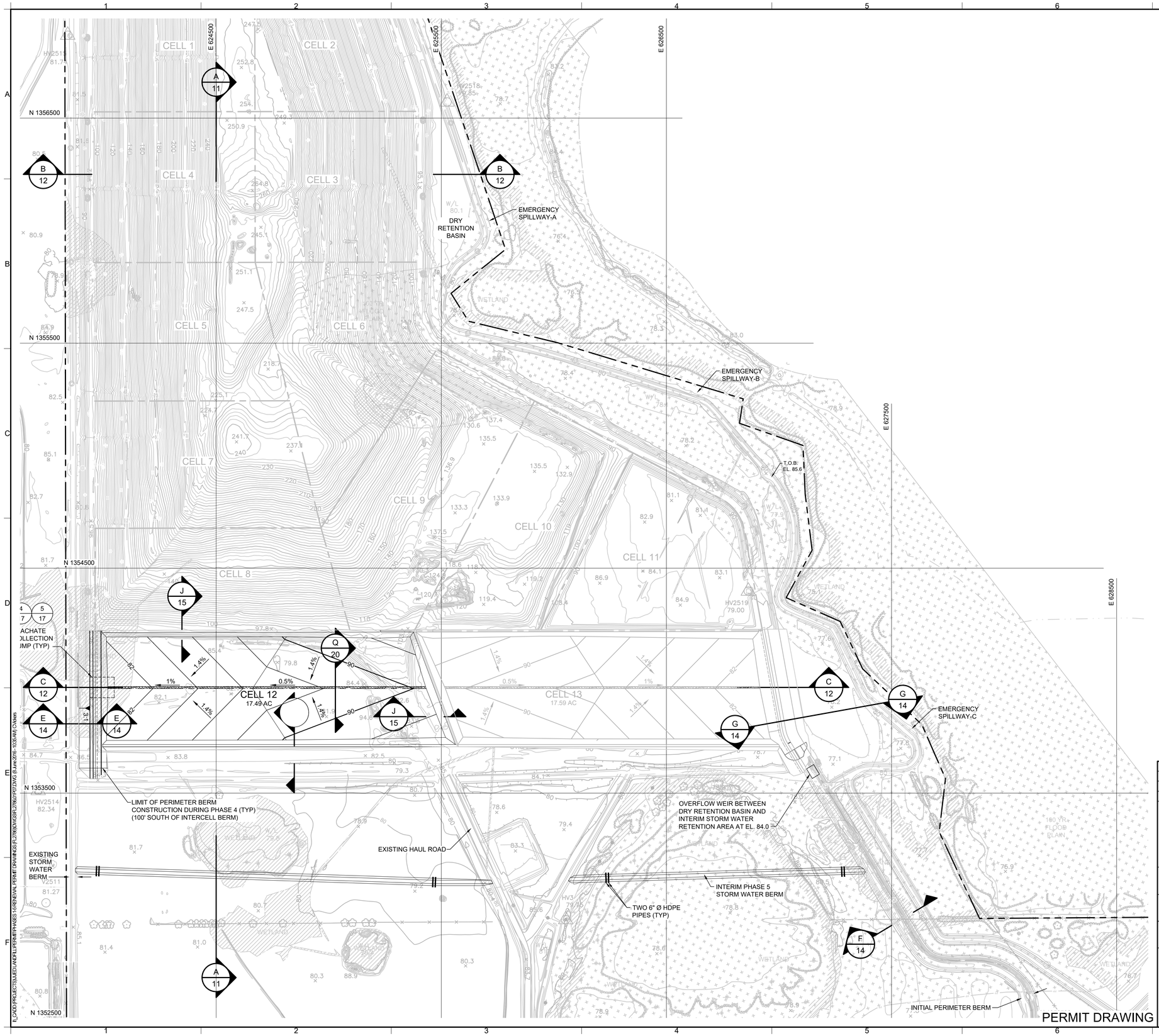
SIGNATURE 6/15/2016 DATE

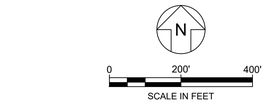
CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

CRAIG BROWNE - LICENSE NO. 68613

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P06
REVIEWED BY:	KBT	DRAWING NO.:	6 OF 48
APPROVED BY:	CRB		

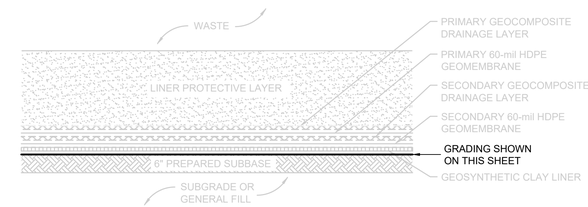
T:_CADD\PROJECTS\JED\JACKSONVILLE\PERMIT\PHASES 1-5\RENEWAL PERMIT DRAWINGS\FL2786\DWGS\FL2786.01P06.DWG\FL2786.01P06.LAYO 8 June 2016 - 10:34 AM\ CMoses





LEGEND

- PROPERTY BOUNDARY
- 80 — EXISTING GROUND ELEVATION (FEET) (NOTE 3)
- EXISTING FENCE
- WETLAND BOUNDARY BY PHOTO INTERPRETATION BY BRA (NOTE 4)
- WETLAND BOUNDARY BY FIELD SURVEY (NOTE 4)
- FP — 100-YEAR FLOODPLAIN (NOTE 5)
- 90 — SUBBASE ELEVATION (FEET)
- LEAK DETECTION TRENCH — Q / 20



GRADING KEY MAP

SCALE: 1" = 2"

XREF: FL1962.02X2012

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).
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3. TOPOGRAPHIC INFORMATION SHOWN ON THIS DRAWING WAS PROVIDED BY BASE MAPPING CO. LTD BASED ON AN AERIAL PHOTOGRAPH TAKEN ON 20 MAY 2015.
4. THE WETLAND BOUNDARY INFORMATION SHOWN IS BASED ON: A FIELD SURVEY DATED 15 MAY 2002 BY JOHNSTON SURVEYING INC. OF WETLANDS BOUNDARIES FLAGGED BY BIOLOGICAL RESEARCH ASSOCIATES, INC. (BRA), THE EXISTING JURISDICTIONAL WETLAND DETERMINATIONS, A PHOTO INTERPRETATION OF WETLAND BOUNDARIES BY BRA IN AREAS OUTSIDE THE LIMITS OF CONSTRUCTION, AND A FIELD SURVEY DATED 24 NOVEMBER 2010 BY PEAVEY & ASSOCIATES OF WETLAND BOUNDARIES FLAGGED BY ENTRIX, INC.
5. THE 100-YEAR FLOODPLAIN BOUNDARY SHOWN WAS PROVIDED BY THE OSCEOLA COUNTY GIS DEPARTMENT ON JANUARY 9, 2002 AND RECONFIRMED WITH THE OSCEOLA COUNTY GIS DEPARTMENT ON 24 SEPTEMBER 2010.

REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0990 - FX:813.558.9726
AUTHORIZATION NUMBER. 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: BASE GRADING PLAN - PHASE 4

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

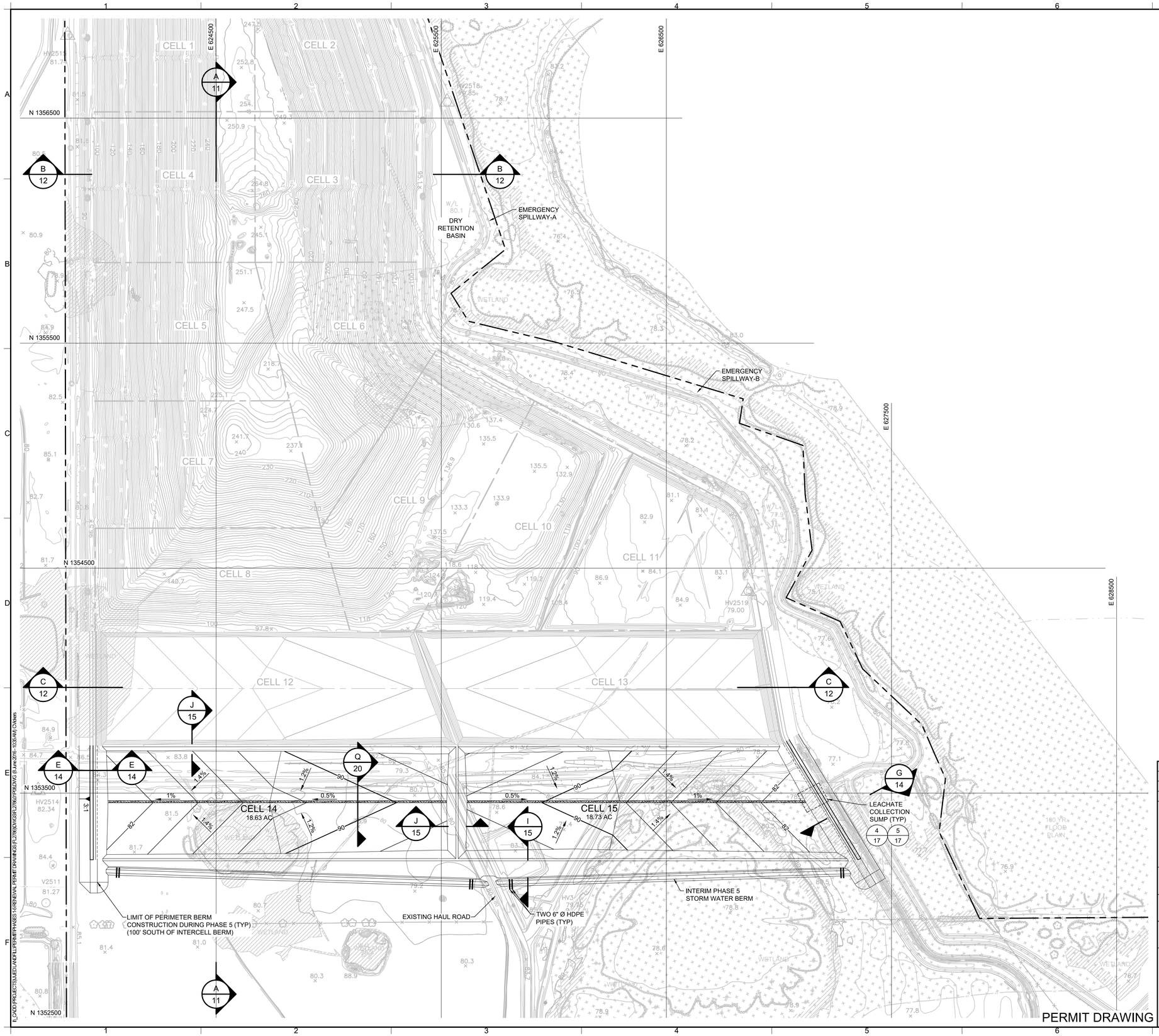
SIGNATURE 6/15/2016 DATE

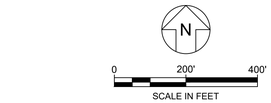
CRAIG BROWNE - LICENSE NO. 68813

CRAIG R. BROWNE LICENSE No. 68813 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P07
REVIEWED BY:	KBT	DRAWING NO.:	7 OF 48
APPROVED BY:	CRB		

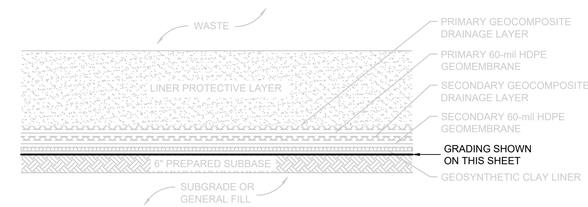
FL:CADD:PROJECTS\JED LANDFILL\PERMIT\PHASES 1-5 RENEWAL PERMIT DRAWINGS\FL2786\DWGS\FL2786.01P07.DWG (8 June 2016 - 10:35 AM) CMVbers





LEGEND

- PROPERTY BOUNDARY
- 80 — EXISTING GROUND ELEVATION (FEET) (NOTE 3)
- EXISTING FENCE
- WETLAND BOUNDARY BY PHOTO INTERPRETATION BY BRA (NOTE 4)
- WETLAND BOUNDARY BY FIELD SURVEY (NOTE 4)
- FP — 100-YEAR FLOODPLAIN (NOTE 5)
- 90 — SUBBASE ELEVATION (FEET)
- LEAK DETECTION TRENCH Q/20



GRADING KEY MAP

SCALE: 1" = 2"

XREF: FL1962.02X2012

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).
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REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0990 - FX:813.558.9726
AUTHORIZATION NUMBER. 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: BASE GRADING PLAN - PHASE 5

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

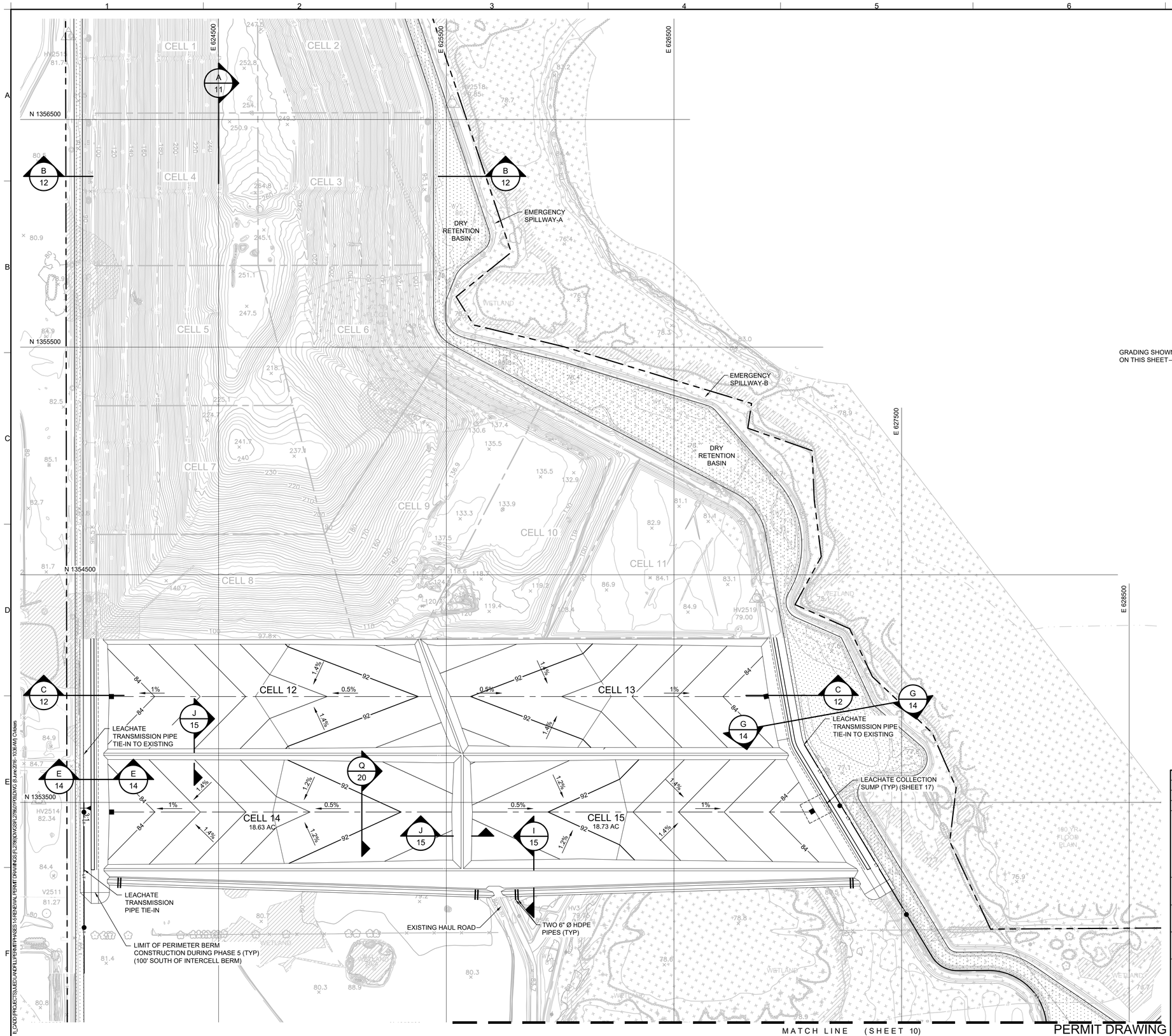
SIGNATURE 6/15/2016 DATE

CRAIG BROWNE - LICENSE NO. 68613

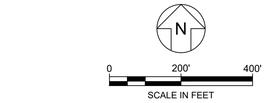
CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P08
REVIEWED BY:	KBT	DRAWING NO.:	8 OF 48
APPROVED BY:	CRB		

FL:CADD\PROJECTS\JUEDLANDFILL\PERMITPHASES1-5\RENEWAL PERMIT DRAWINGS\FL2786\DWGS\FL2786.01P08.DWG 8 June 2016 - 10:35 AM\ CMVbers

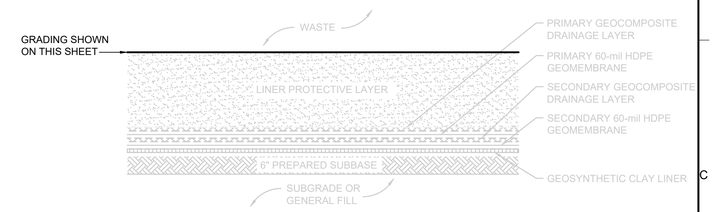


PERMIT DRAWING



LEGEND

- PROPERTY BOUNDARY
- 80 — EXISTING GROUND ELEVATION (FEET) (NOTE 3)
- EXISTING FENCE
- WETLAND BOUNDARY BY PHOTO INTERPRETATION BY BRA (NOTE 4)
- WETLAND BOUNDARY BY FIELD SURVEY (NOTE 4)
- FP — 100-YEAR FLOODPLAIN (NOTE 5)
- STORM WATER MANAGEMENT BASIN
- 90 — TOP OF PROTECTIVE COVER LAYER ELEVATION (FEET)
- LT — LEACHATE TRANSMISSION PIPE AND MANHOLE
- LEACHATE COLLECTION PIPE AND SUMP



GRADING KEY MAP

SCALE: 1" = 2"

XREF: FL1962.02X2012

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).
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6. PHASE 2 (CELLS 5 THROUGH 7) HAS BEEN CONSTRUCTED AND HAS WASTE DISPOSED IN CELLS 5 AND 6. CELL 7 WASTE DISPOSAL OPERATIONS ARE PENDING FDEP APPROVAL.

REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0990 - FX:813.558.9726
AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: LEACHATE COLLECTION SYSTEM LAYOUT PLAN I

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE — DATE 6/15/2016 — CRAIG BROWNE - LICENSE NO. 68613

CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P09
REVIEWED BY:	KBT	DRAWING NO.:	9 OF 48
APPROVED BY:	CRB		

FL:\CADD\PROJECTS\JLED\LANDFILL\PERMIT\PHASES 1-5\RENEWAL PERMIT\DWG\KBT\FL2786\DWGSR\2786\01P09\LAYO 8-June-2016 - 10:30 AM\ CVolves

N

0 200' 400'

SCALE IN FEET

LEGEND

- PROPERTY BOUNDARY
- 80 — EXISTING GROUND ELEVATION (FEET) (NOTE 3)
- EXISTING FENCE
- WBP — WETLAND BOUNDARY BY PHOTO INTERPRETATION BY BRA (NOTE 4)
- WBF — WETLAND BOUNDARY BY FIELD SURVEY(NOTE4)
- FP — 100-YEAR FLOODPLAIN (NOTE 5)
- STORMWATER MANAGEMENT BASIN
- 90 — PROPOSED TOP OF PROTECTIVE COVER LAYER ELEVATION (FEET)
- LT — LEACHATE TRANSMISSION PIPE AND MANHOLE

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).
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REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0990 - FX:813.558.9726
AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE:

LEACHATE COLLECTION SYSTEM LAYOUT PLAN II

PROJECT:

PHASES 1-5 RENEWAL PERMIT DRAWINGS

SITE:

J.E.D. SOLID WASTE MANAGEMENT FACILITY

SIGNATURE

6/15/2016
DATE

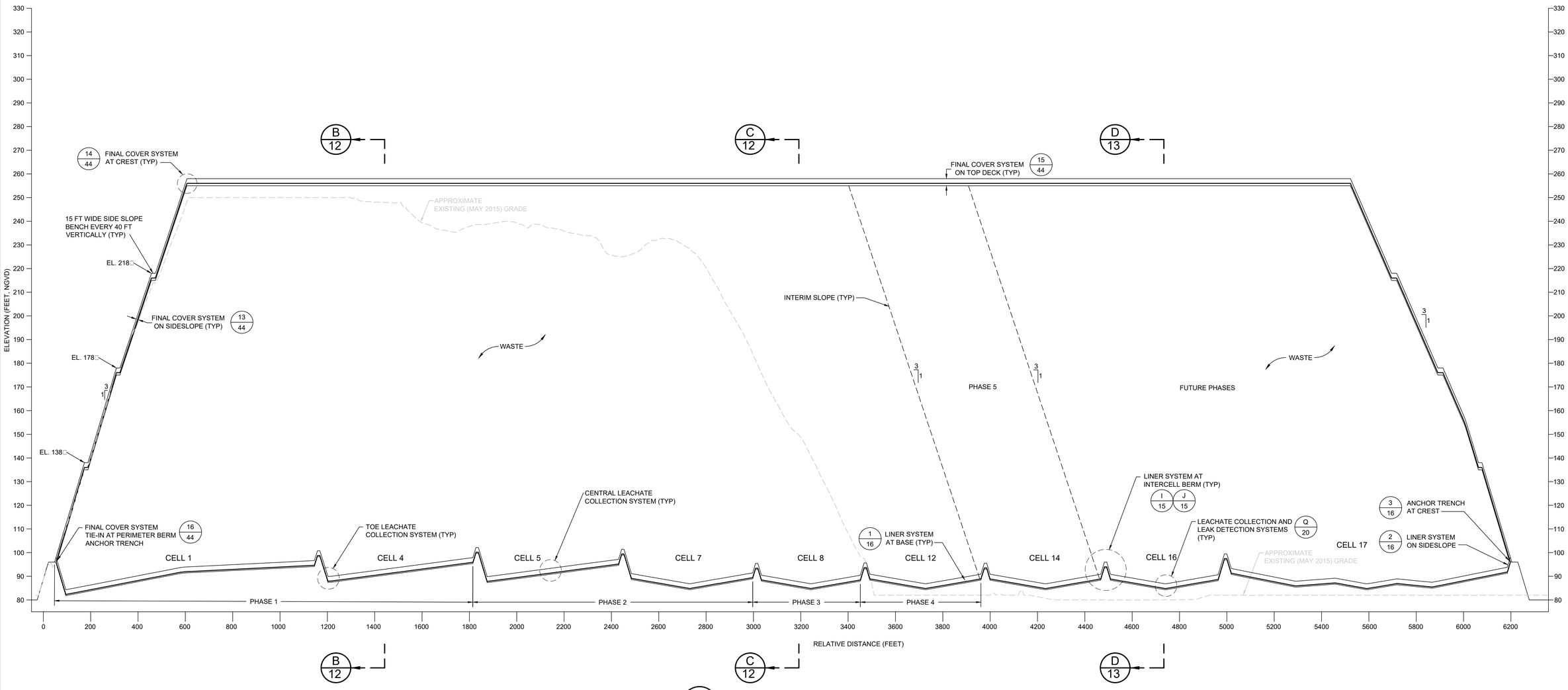
CRAIG BROWNE - LICENSE NO. 68613

CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P09
REVIEWED BY:	KBT	DRAWING NO.:	10 OF 48
APPROVED BY:	CRB		

PERMIT DRAWING

I:\CADD\PROJECTS\JED\JAXDFL\FERMIT\PHASES 1-5\RENEWAL PERMIT DRAWINGS\FL2786\FY16\DWG\FL2786.01P09.DWG 6 Jun 2016 - 10:08 AM CVasas



A / 7 SECTION

LANDFILL CROSS SECTION

SCALE: 1" = 200□(HOR) □1" = 20□(VERT)

GENERAL NOTES:

1. THE ELEVATIONS SHOWN REPRESENT NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) (FEET).

PERMIT DRAWING

REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0990 - FX:813.558.9726
AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: LANDFILL CROSS SECTIONS I

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE

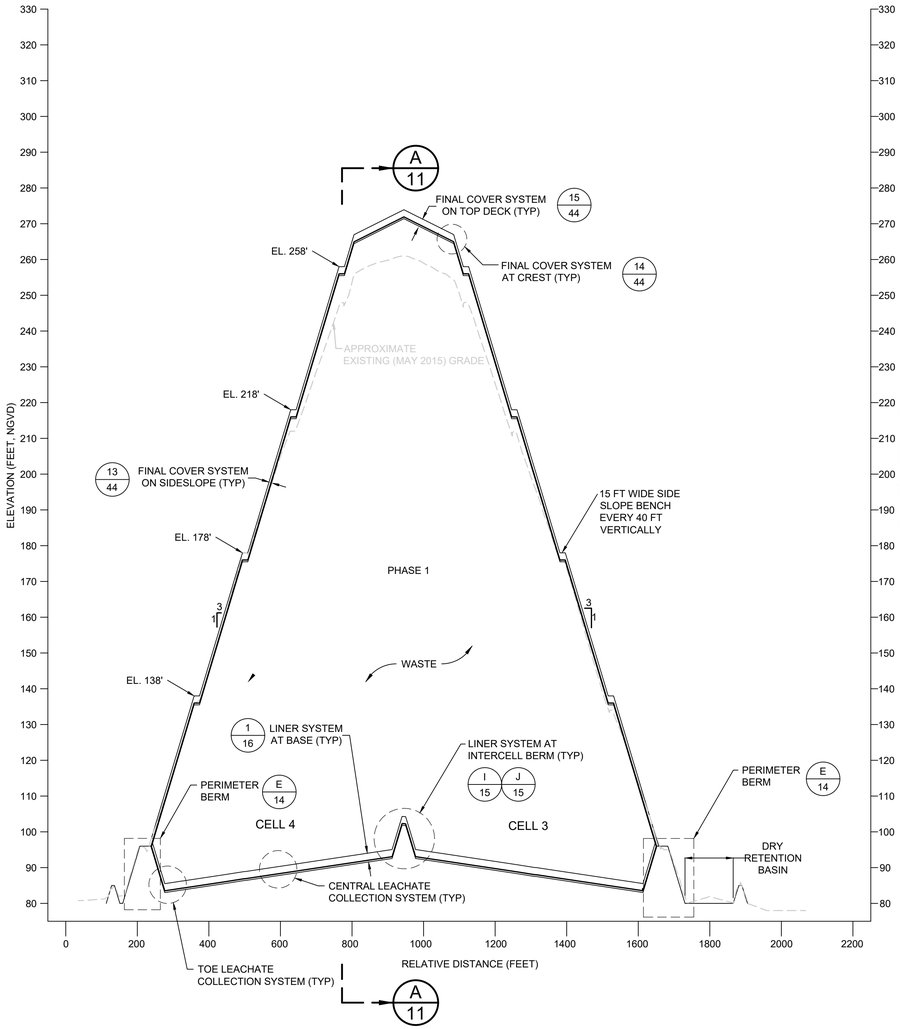
6/15/2016
DATE

CRAIG BROWNE - LICENSE NO. 68813

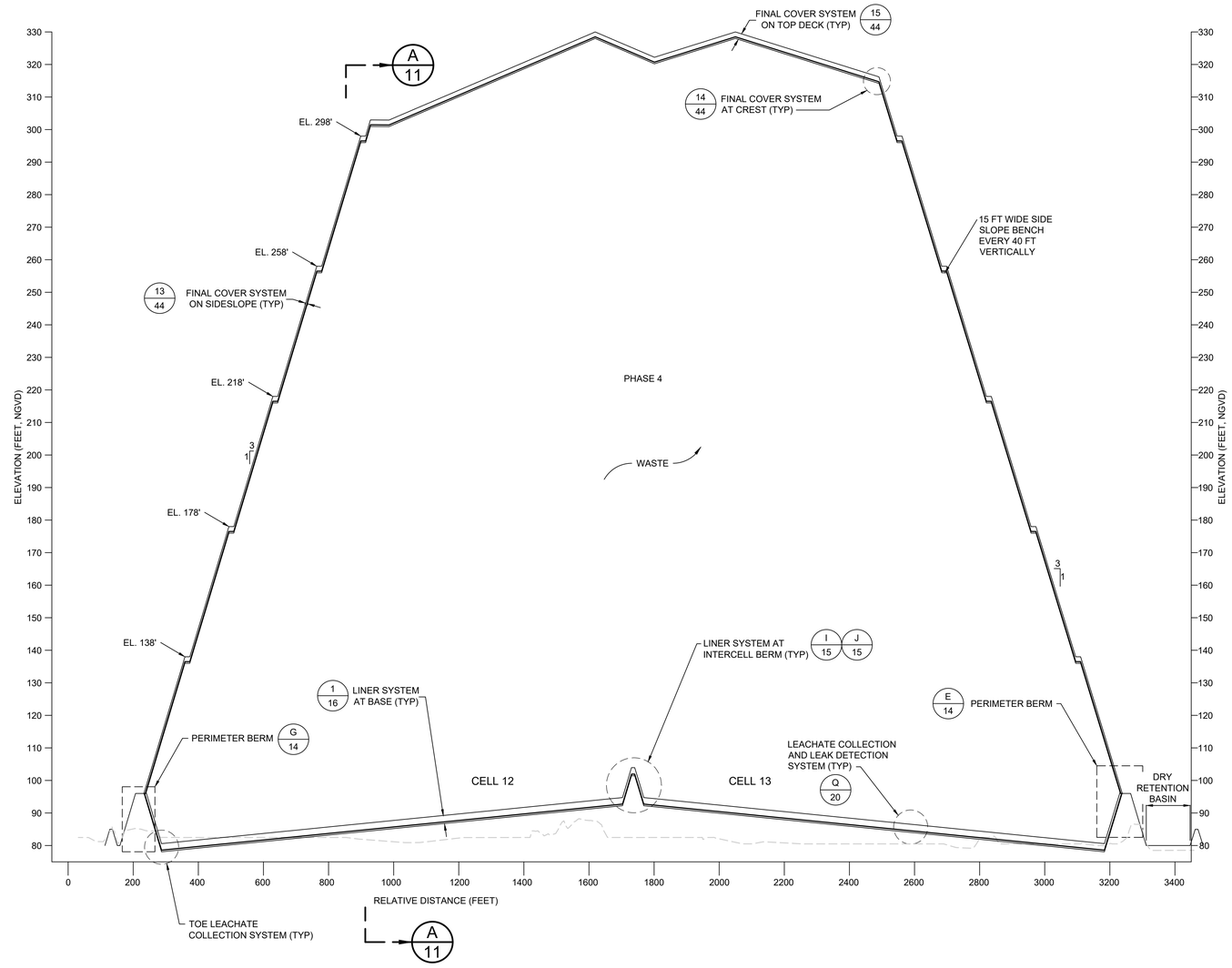
CRAIG R. BROWNE LICENSE No. 68813 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P11
REVIEWED BY:	KBT	DRAWING NO.:	11 OF 48
APPROVED BY:	CRB		

I:\CADD\PROJECTS\JED LANDFILL\PERMIT\PHASES 1-5 RENEWAL PERMIT DRAWINGS\FL2786\DWGS\FL2786\P11.DWG (8 Jun 2016 - 11:16 AM) CMoore



B
7
SECTION
LANDFILL CROSS SECTION
SCALE: 1" = 200' (HOR) ; 1" = 20' (VERT)



C
7
SECTION
LANDFILL CROSS SECTION
SCALE: 1" = 200' (HOR) ; 1" = 20' (VERT)

GENERAL NOTES:

1. THE ELEVATIONS SHOWN REPRESENT NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) (FEET).

PERMIT DRAWING

REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0990 - FX:813.558.9726
AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: LANDFILL CROSS SECTIONS II

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

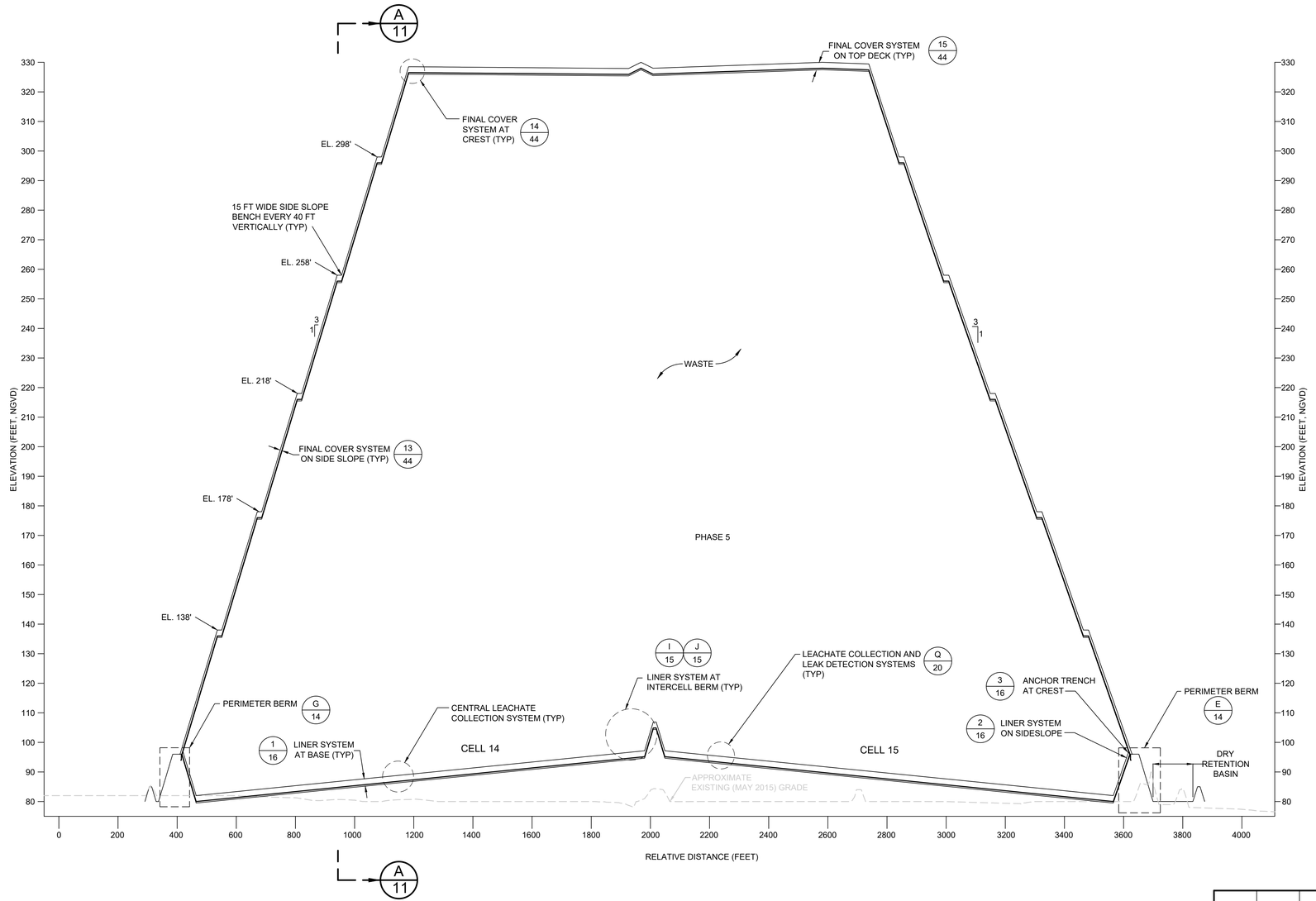
SITE: J.E.D. SOLID WASTE MANAGEMENT FACILITY

SIGNATURE
6/15/2016
DATE
CRAIG BROWNE - LICENSE NO. 68813

CRAIG R. BROWNE LICENSE No. 68813 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P11
REVIEWED BY:	KBT	DRAWING NO.:	12 OF 48
APPROVED BY:	CRB		

T:_CADD\PROJECTS\JED\LANDFILL\PERMIT\PHASES 1-5\RENEWAL PERMIT\DRAWINGS\FL2786\DWGS\FL2786\01P11.DWG 8 June 2016 - 10:37 AM\ CMvaas



D
11

SECTION
LANDFILL CROSS SECTION

SCALE: 1" = 200' (HOR) ; 1" = 20' (VERT)

GENERAL NOTES:

1. THE ELEVATIONS SHOWN REPRESENT NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) (FEET).

PERMIT DRAWING

REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

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TITLE: LANDFILL CROSS SECTIONS III

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE
6/15/2016
DATE
CRAIG BROWNE - LICENSE NO. 68613

CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P11
REVIEWED BY:	KBT	DRAWING NO.:	13 OF 48
APPROVED BY:	CRB		

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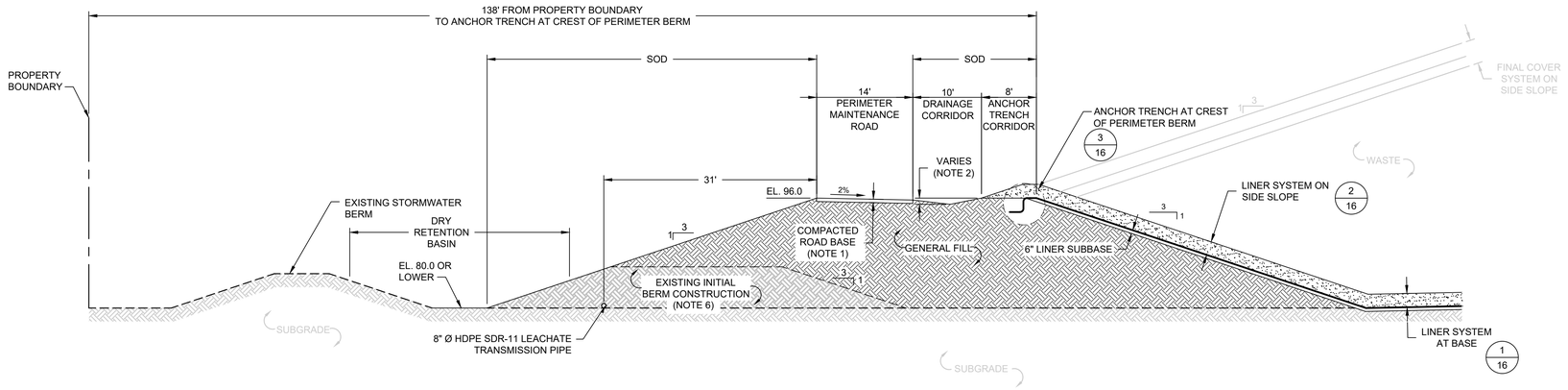
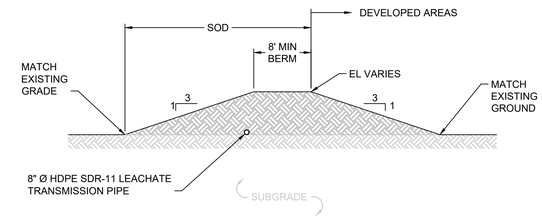
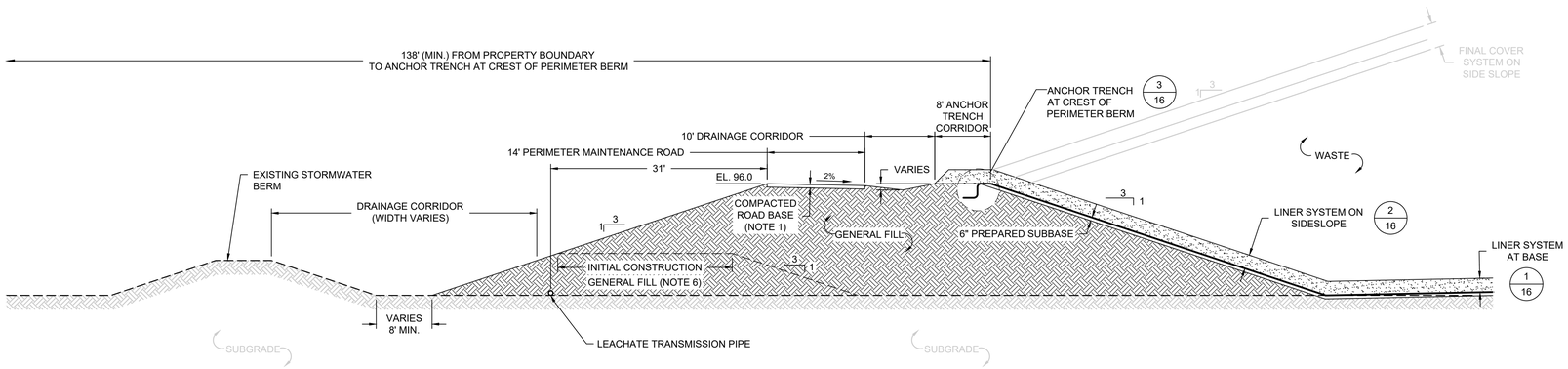


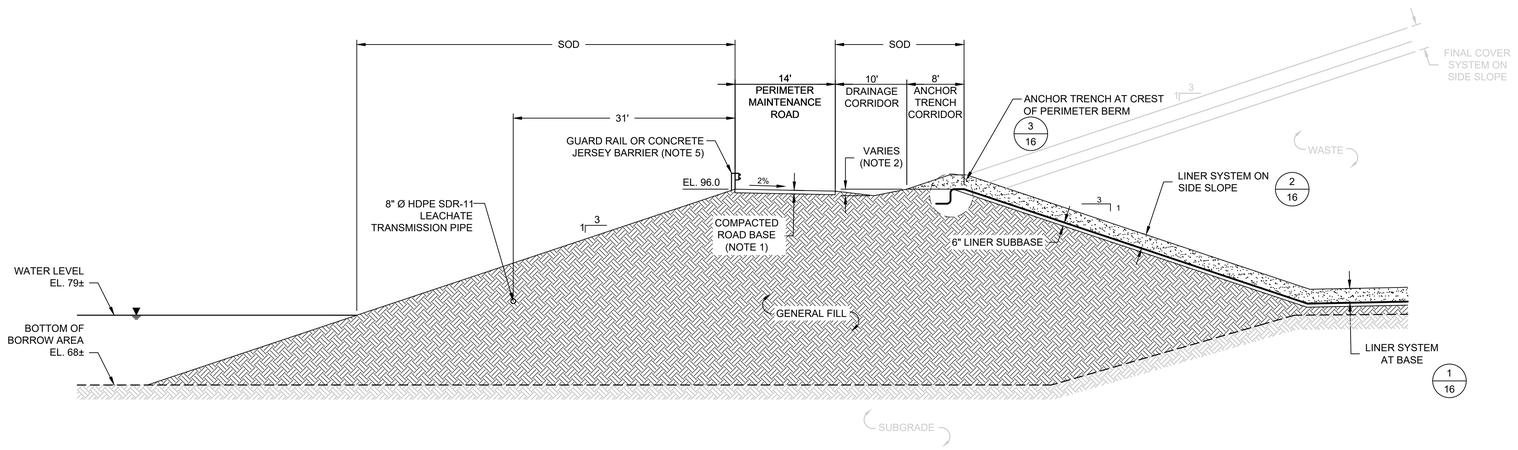
E/7 SECTION (TYPICAL)
PERIMETER BERM ALONG EAST BOUNDARY
SCALE: 1" = 10'
XREF: FL2786X2021



F/7 SECTION (TYPICAL)
INITIAL BERM CONSTRUCTION
SCALE: 1" = 10'
XREF: FL2786X5003



G/7 SECTION (TYPICAL)
PERIMETER BERM ALONG WEST AND SOUTH BOUNDARY
SCALE: 1" = 10'
XREF: FL2786X2027



H/37 SECTION (TYPICAL)
PERIMETER BERM AT WET RETENTION BASIN
SCALE: 1" = 10'
XREF: FL2786X2035

NOTES:

1. COMPACTED ROAD BASE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS TO A TOTAL THICKNESS OF 10 INCHES.
2. DRAINAGE CORRIDOR ON PERIMETER BERM SHALL BE GRADED TO UNIFORMLY DRAIN FROM THE CELL SUMP (HIGH POINT AT EL.95') TO THE DRAINAGE STRUCTURES (LOW POINT AT EL.93'). SWALE SHALL HAVE MINIMUM DEPTH OF 12 INCHES.
3. PIPE BEDDING SHALL TYPICALLY CONSIST OF GRAVEL OR COMPACTED GENERAL FILL.
4. DETAILS ARE SHOWN TO SCALE AS NOTED EXCEPT FOR THE GEOSYNTHETICS WHICH ARE SHOWN AT AN EXAGGERATED SCALE FOR CLARITY.
5. GUARD RAIL OR JERSEY BARRIER TO BE CONSTRUCTED IN AREAS ADJACENT TO WET RETENTION BASIN.
6. INITIAL BERM WAS INTENDED TO ALLOW CONSTRUCTION OF THE LEACHATE TRANSMISSION PIPE WHEN LEACHATE STORAGE AREA WAS RELOCATED.

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TITLE: PERIMETER BERM TYPICAL SECTIONS

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE
6/15/2016
DATE
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CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
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CHECKED BY:	AR	FILE:	FL2786.01P14
REVIEWED BY:	KBT	DRAWING NO.:	
APPROVED BY:	CRB		14 OF 48

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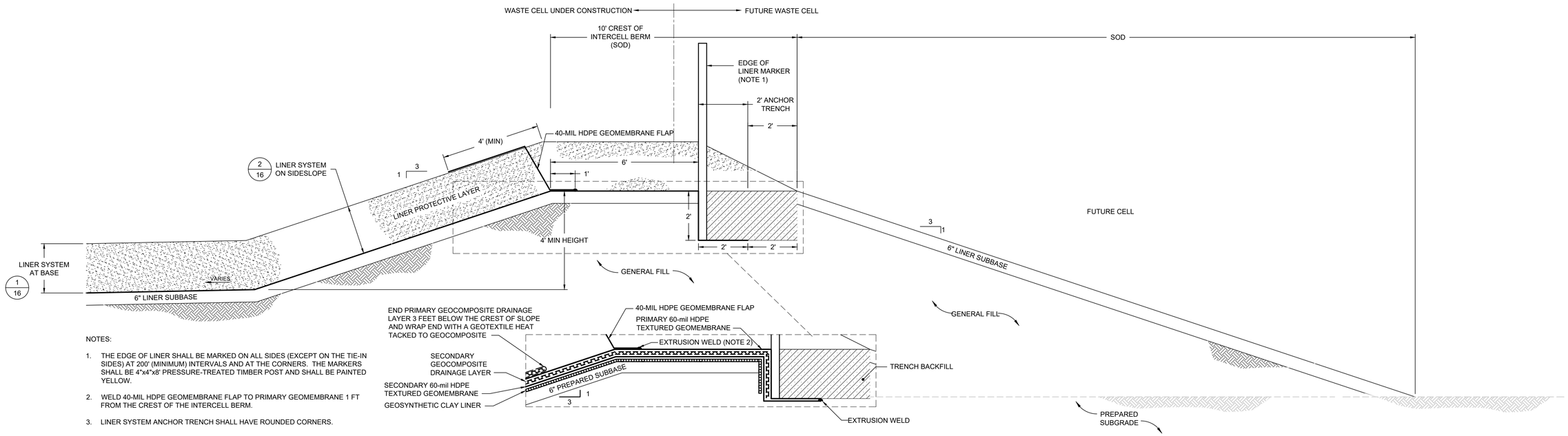
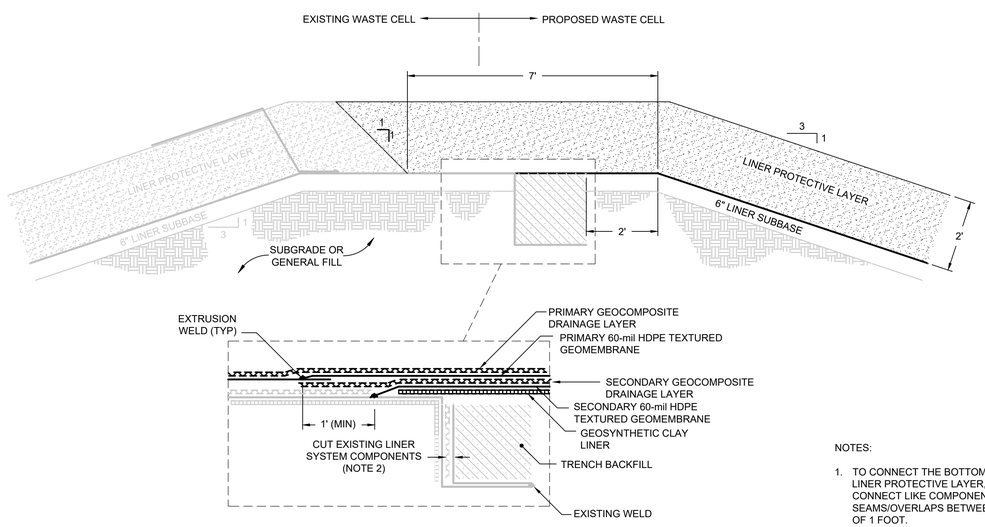


NOTES:

1. THE EDGE OF LINER SHALL BE MARKED ON ALL SIDES (EXCEPT ON THE TIE-IN SIDES) AT 200' (MINIMUM) INTERVALS AND AT THE CORNERS. THE MARKERS SHALL BE 4"x4"x8' PRESSURE-TREATED TIMBER POST AND SHALL BE PAINTED YELLOW.
2. WELD 40-MIL HDPE GEOMEMBRANE FLAP TO PRIMARY GEOMEMBRANE 1 FT FROM THE CREST OF THE INTERCELL BERM.
3. LINER SYSTEM ANCHOR TRENCH SHALL HAVE ROUNDED CORNERS.

I/7 SECTION (TYPICAL)
LINER SYSTEM TERMINATION AT INTERCELL BERM
SCALE: 1" = 2'
XREF: FL2786X2098



J/7 SECTION (TYPICAL)
LINER SYSTEM TIE-IN AT INTERCELL BERM
SCALE: 1" = 2'
XREF: FL2786X2099

NOTES:

1. TO CONNECT THE BOTTOM LINER SYSTEMS DURING CONSTRUCTION, EXCAVATE THE LINER PROTECTIVE LAYER, REMOVE ANY SACRIFICIAL GEOTEXTILE SEPARATOR, AND CONNECT LIKE COMPONENTS OF GEOSYNTHETICS AS INDICATED. STAGGER THE SEAMS/OVERLAPS BETWEEN LIKE COMPONENTS OF GEOSYNTHETICS BY A MINIMUM OF 1 FOOT.
2. DO NOT CUT THE EXISTING SECONDARY GEOMEMBRANE AND GCL. TIE-IN AS SHOWN.
3. UPON REMOVAL OF PROTECTIVE COVER FROM THE TIE-IN AREA OF THE CELL, CONTRACTOR SHALL USE EXTREME CARE NOT TO DAMAGE EXISTING GEOSYNTHETICS. DAMAGED GEOSYNTHETICS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE. SITE MANAGER SHALL INSPECT TIE-IN AREA DURING REMOVAL.

NOTES:

1. DETAILS ARE SHOWN TO SCALE AS NOTED EXCEPT FOR THE GEOSYNTHETICS WHICH ARE SHOWN AT AN EXAGGERATED SCALE FOR CLARITY.

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TITLE: LINER SYSTEM DETAILS I - CELLS 12 THROUGH 15

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE 6/15/2016 DATE
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CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
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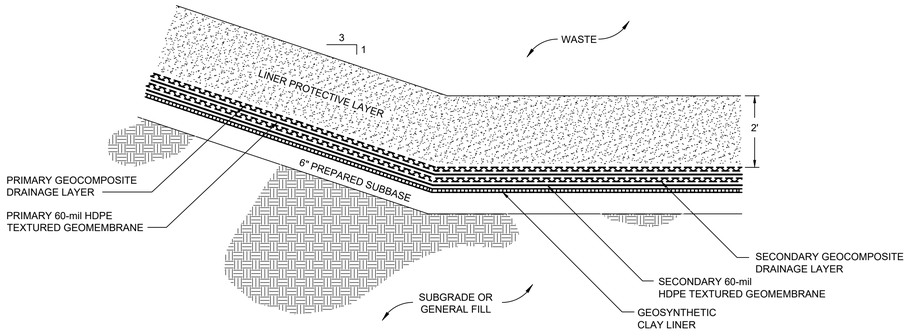
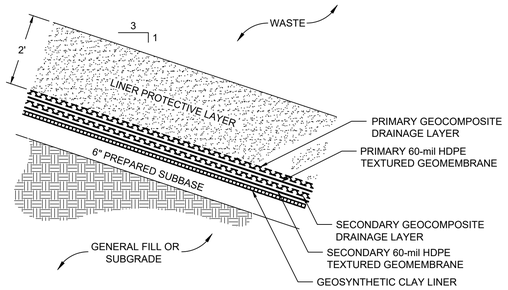
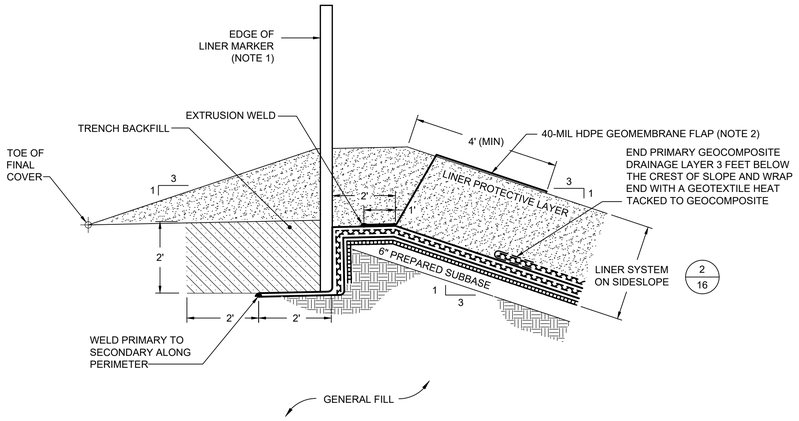


1 / 11 DETAIL (TYPICAL)
LINER SYSTEM AT BASE
SCALE: 1" = 2'
XREF: FL2786X2004



2 / 11 DETAIL (TYPICAL)
LINER SYSTEM ON SIDESLOPE
SCALE: 1" = 2'
XREF: FL2786X2074



3 / 11 DETAIL (TYPICAL)
ANCHOR TRENCH AT CREST OF PERIMETER BERM
SCALE: 1" = 2'
XREF: FL2786X2003

NOTES:

1. THE EDGE OF LINER SHALL BE MARKED AT 200' (MINIMUM) INTERVALS AS SHOWN ON SHEET 4. THE MARKERS SHALL BE 4"x4"x8' PRESSURE-TREATED TIMBER POST AND SHALL BE PAINTED YELLOW.
2. 40-MIL HDPE GEOMEMBRANE FLAP SHALL BE REMOVED, AS NEEDED, DURING FINAL CLOSURE ACTIVITIES.
3. LINER SYSTEM ANCHOR TRENCH SHALL HAVE ROUNDED CORNERS.

NOTES:

1. DETAILS ARE SHOWN TO SCALE AS NOTED EXCEPT FOR THE GEOSYNTHETICS WHICH ARE SHOWN AT AN EXAGGERATED SCALE FOR CLARITY.

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TITLE: LINER SYSTEM DETAILS II - CELLS 12 THROUGH 15

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE
6/15/2016
DATE
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CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

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APPROVED BY:	CRB		16 OF 48

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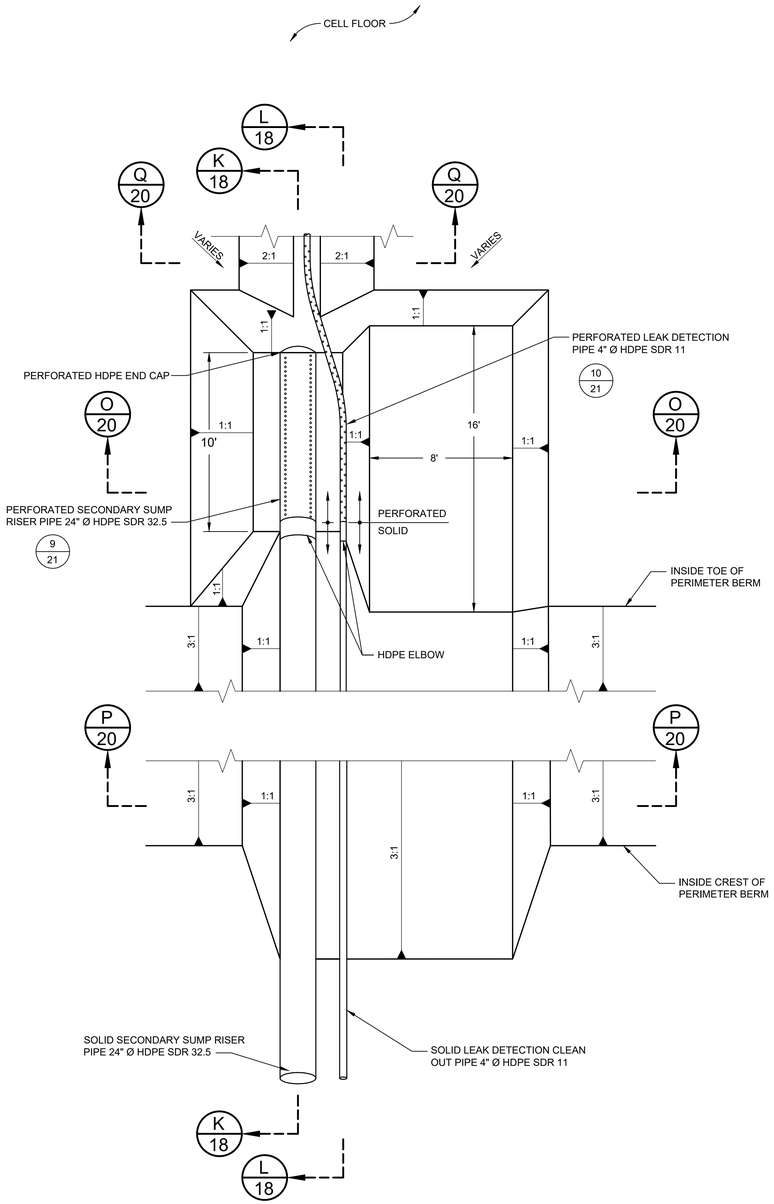
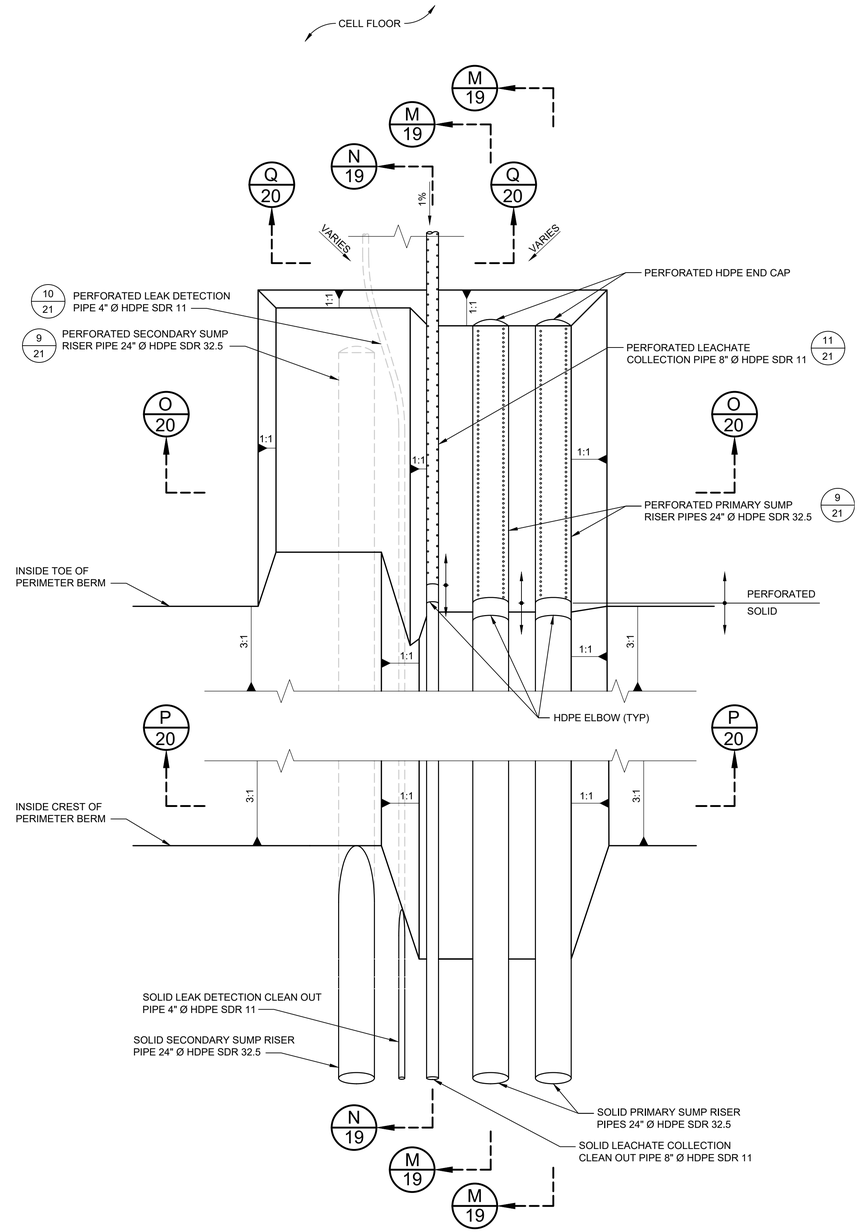
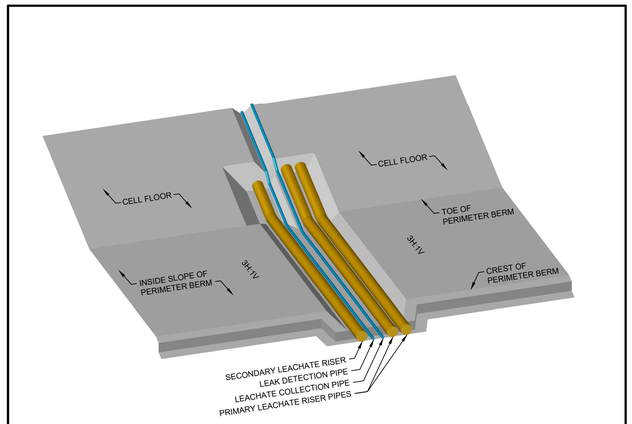


4 / 7 PLAN DETAIL (TYPICAL)
SECONDARY LEACHATE COLLECTION SUMP
SCALE: 1" = 4'
XREF: FL2786X2018



5 / 7 PLAN DETAIL (TYPICAL)
PRIMARY LEACHATE COLLECTION SUMP
SCALE: 1" = 4'
XREF: FL2786X2018



LEACHATE COLLECTION SUMP (3-D VIEW)
(NOT TO SCALE)

N

0 4' 8'
SCALE IN FEET

NOTES:

1. ALL SUMP RISERS SHALL BE PROVIDED WITH SEALABLE BLIND FLANGES AS APPROVED BY THE ENGINEER. ALL FLANGES FOR ALL PIPE SIZES SHALL HAVE RED RUBBER GASKETS. THE NUTS, BOLTS, AND WASHERS USED TO SECURE THE BLIND FLANGES SHALL BE ZINC PLATED.
2. ALL PIPE PENETRATIONS THROUGH LINER SYSTEM SHALL BE DOUBLE BANDED WITH NON-ADJUSTABLE STAINLESS STEEL CLAMPS (SEE SHEET 21 FOR DETAIL).

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TITLE: LEACHATE SUMP PLAN - CELLS 12 THROUGH 15

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE
6/15/2016
DATE
CRAIG BROWNE - LICENSE NO. 68813

CRAIG R. BROWNE LICENSE No. 68813 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
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REVIEWED BY:	KBT	DRAWING NO.:	17 OF 48
APPROVED BY:	CRB		

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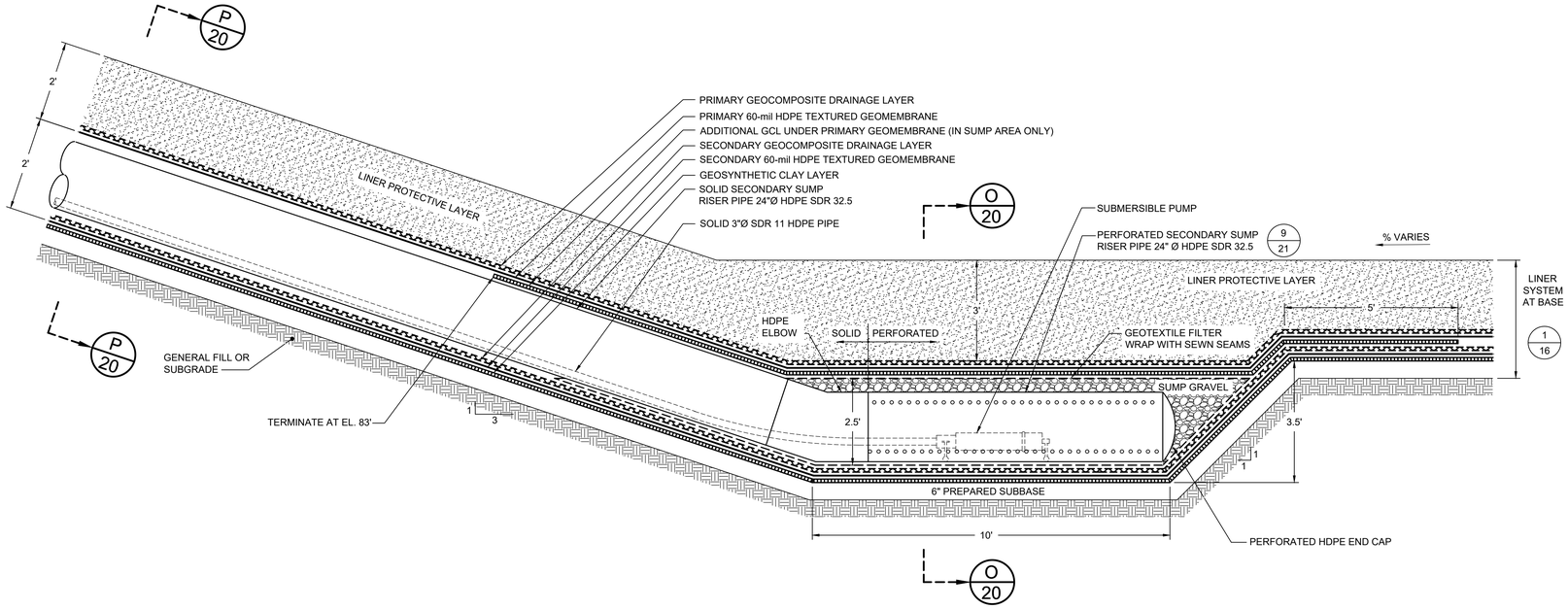
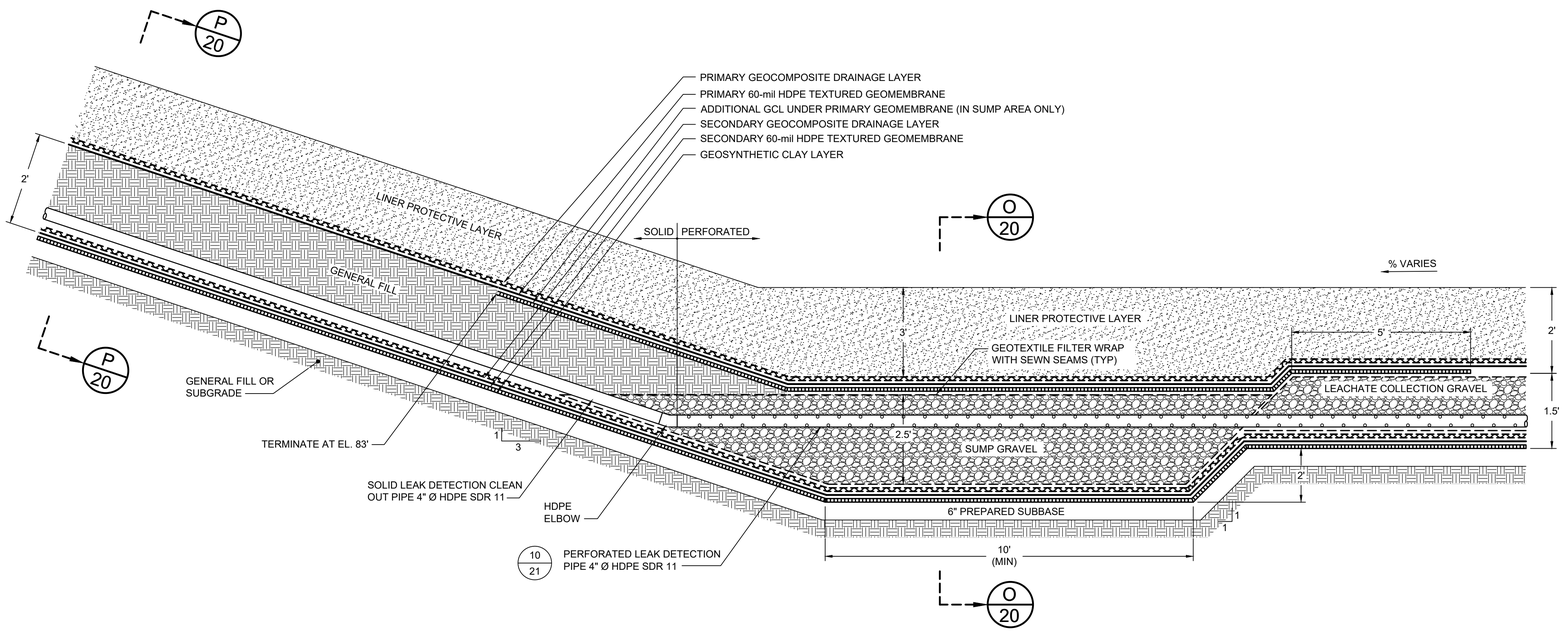


K 17 SECTION
SECONDARY RISER PIPE AT SUMP

SCALE: NOT TO SCALE
XREF: FL2786X2023



L 17 SECTION
LEAK DETECTION PIPE AT SUMP

SCALE: NOT TO SCALE
XREF: FL2786X2034

NOTES:

1. DETAILS ARE SHOWN TO SCALE AS NOTED EXCEPT FOR THE GEOSYNTHETICS WHICH ARE SHOWN AT AN EXAGGERATED SCALE FOR CLARITY.

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TITLE: SECONDARY SUMP CROSS SECTIONS - CELLS 12 THROUGH 15

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

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APPROVED BY:	CRB		

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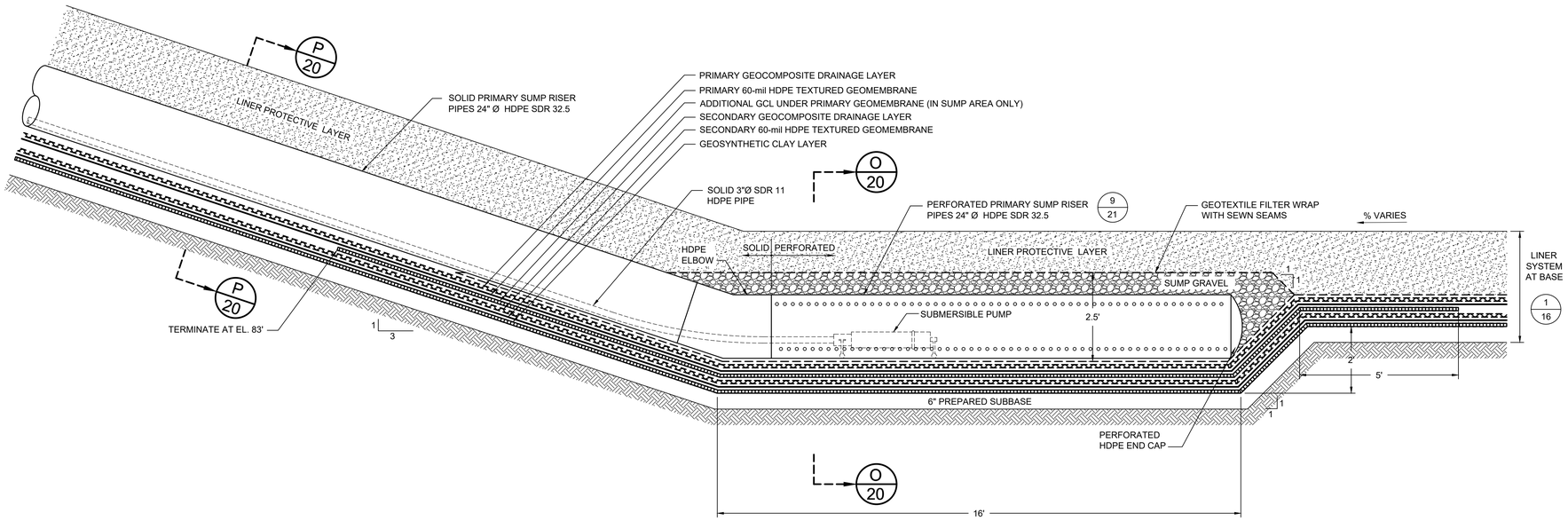
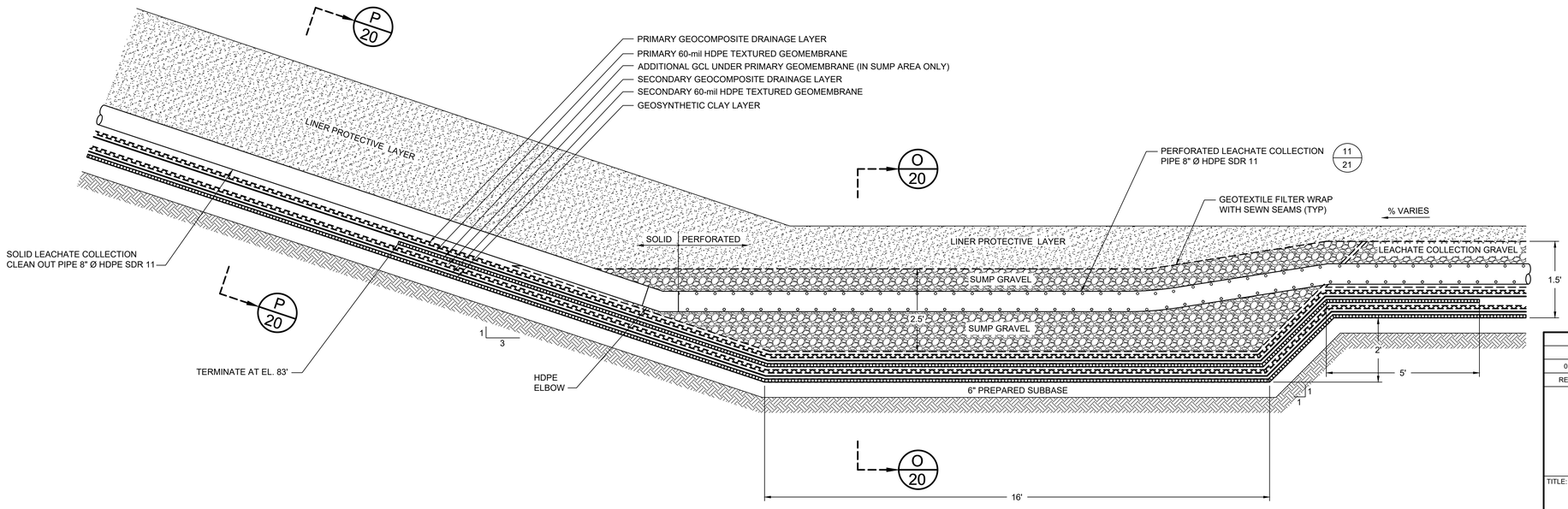


M 17 SECTION
PRIMARY SUMP RISER

SCALE: NOT TO SCALE
XREF: FL2786X2017



N 17 SECTION
LEACHATE COLLECTION PIPE AT SUMP

SCALE: NOT TO SCALE
XREF: FL2786X2036

NOTES:

1. DETAILS ARE SHOWN TO SCALE AS NOTED EXCEPT FOR THE GEOSYNTHETICS WHICH ARE SHOWN AT AN EXAGGERATED SCALE FOR CLARITY.

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TITLE: PRIMARY SUMP CROSS SECTIONS - CELLS 12 THROUGH 15

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

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DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P19
REVIEWED BY:	KBT	DRAWING NO.:	19 OF 48
APPROVED BY:	CRB		

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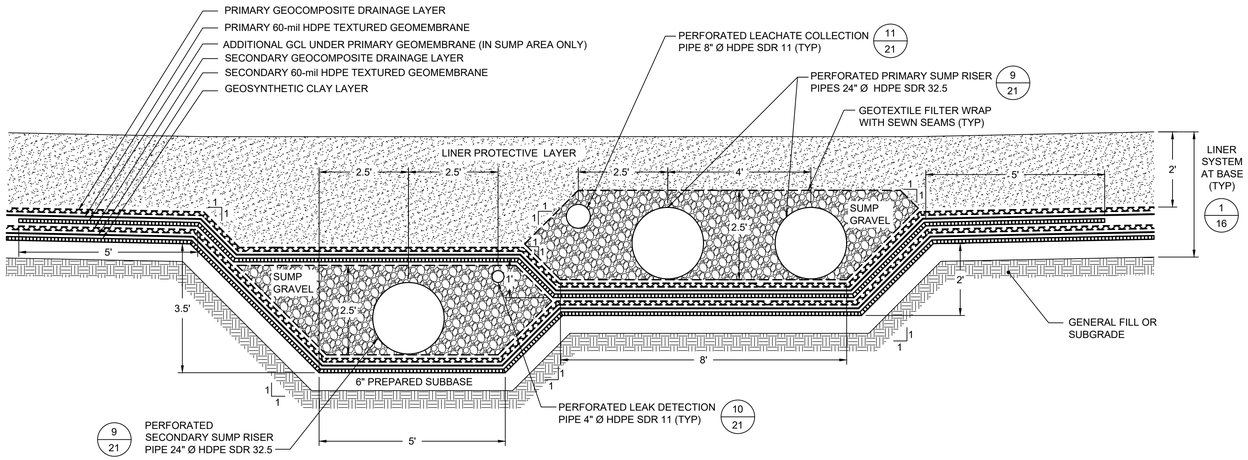
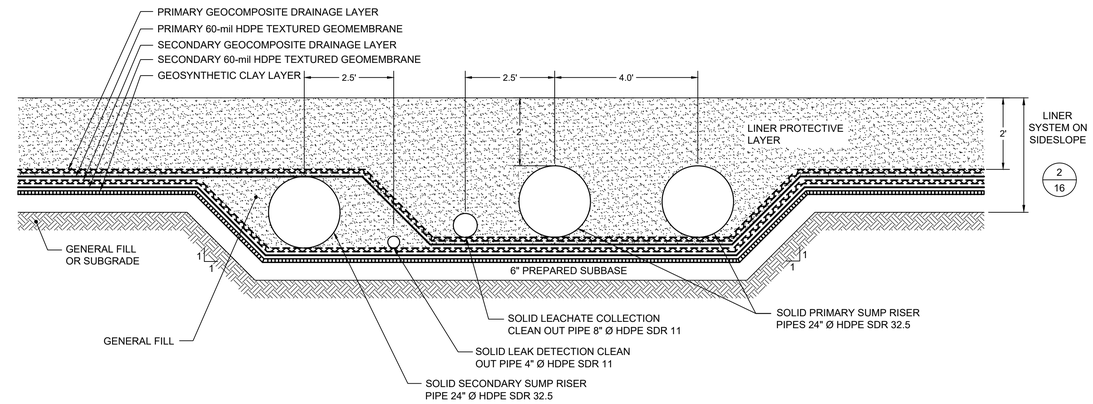
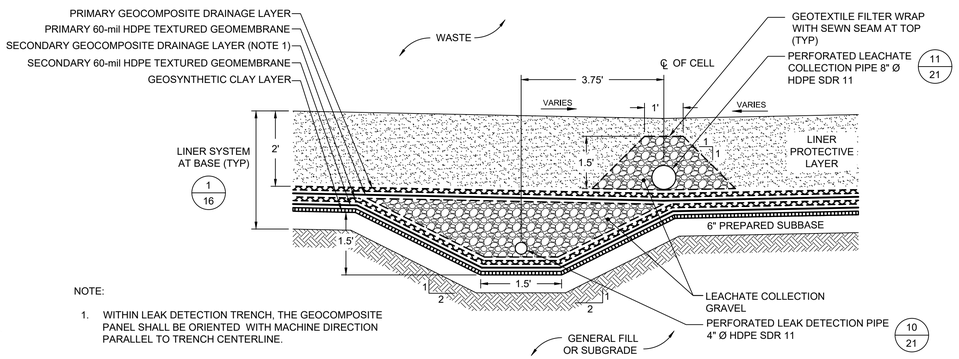


O / 17 SECTION
LEACHATE COLLECTION SUMP
SCALE: NOT TO SCALE
XREF: FL2786X2019



P / 17 SECTION
RISER TRENCH ON SIDE SLOPE

SCALE: NOT TO SCALE
XREF: FL2786X2020



NOTE:

1. WITHIN LEAK DETECTION TRENCH, THE GEOCOMPOSITE PANEL SHALL BE ORIENTED WITH MACHINE DIRECTION PARALLEL TO TRENCH CENTERLINE.

Q / 7 SECTION
LEACHATE COLLECTION AND LEAK DETECTION SYSTEMS
SCALE: NOT TO SCALE
XREF: FL2786X2016

NOTES:

1. DETAILS ARE SHOWN TO SCALE AS NOTED EXCEPT FOR THE GEOSYNTHETICS WHICH ARE SHOWN AT AN EXAGGERATED SCALE FOR CLARITY.

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TITLE: LEACHATE SUMP CROSS SECTIONS - CELLS 12 THROUGH 15

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

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APPROVED BY:	CRB		

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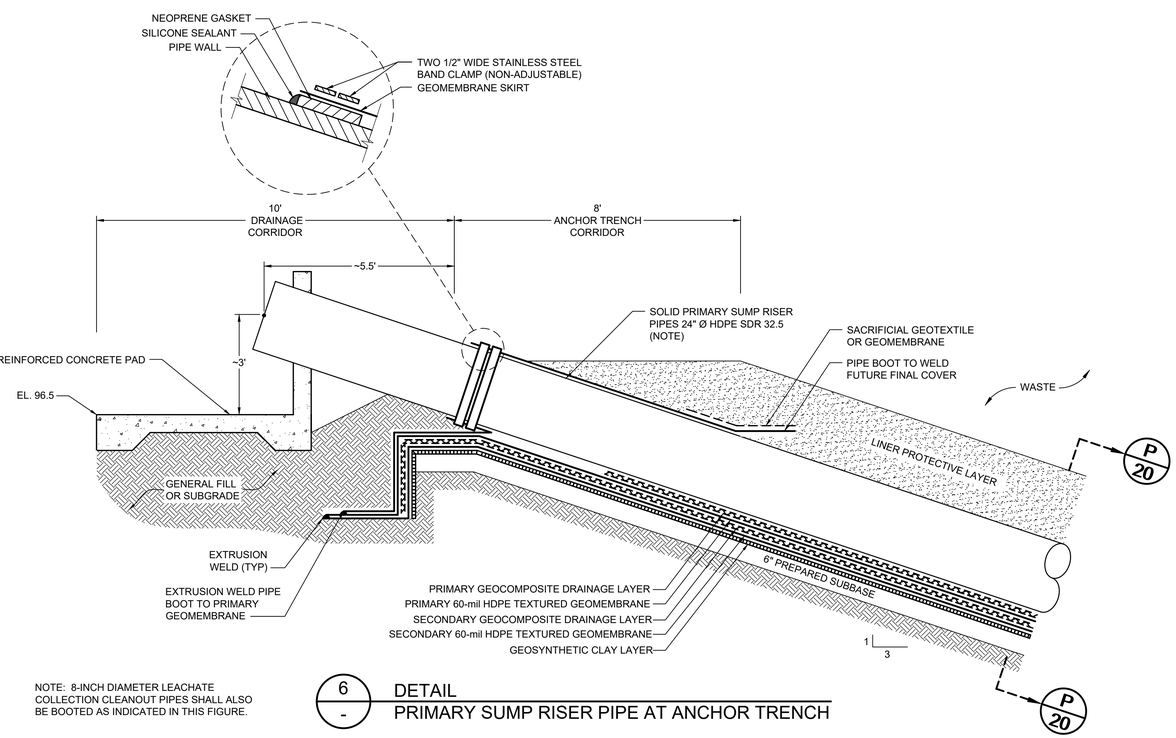
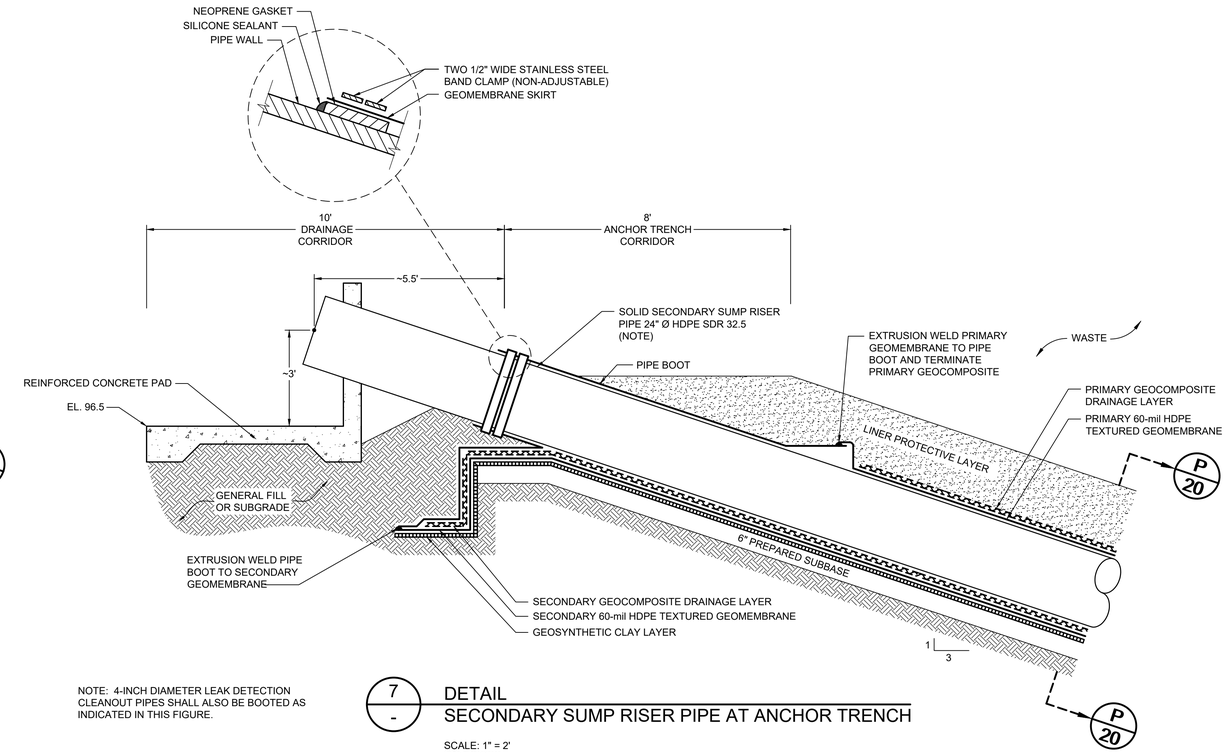
I:\CAD\PROJECTS\LEED\ADVFLLF\PERMIT\PHASES 1-5\RENEWAL PERMIT DRAWINGS\FL2786\DWGS\FL2786\DWG\FL2786.01P20.DWG (June 27th - 10:38 AM) CVdaes



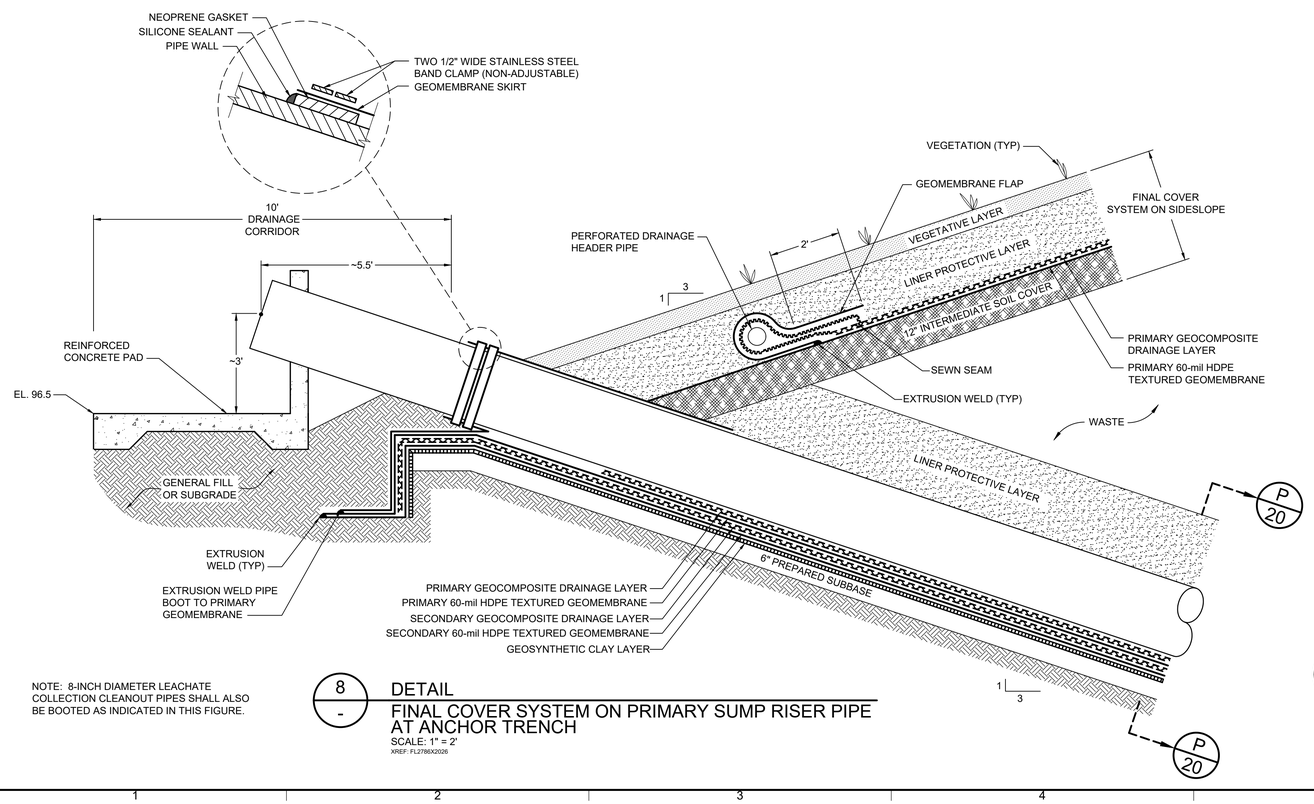
NOTE: 8-INCH DIAMETER LEACHATE COLLECTION CLEANOUT PIPES SHALL ALSO BE BOOTED AS INDICATED IN THIS FIGURE.

6 / - DETAIL
PRIMARY SUMP RISER PIPE AT ANCHOR TRENCH
SCALE: 1" = 2'
XREF: FL2786X2025



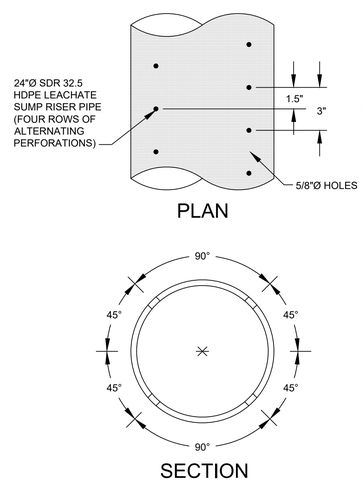
NOTE: 4-INCH DIAMETER LEAK DETECTION CLEANOUT PIPES SHALL ALSO BE BOOTED AS INDICATED IN THIS FIGURE.

7 / - DETAIL
SECONDARY SUMP RISER PIPE AT ANCHOR TRENCH
SCALE: 1" = 2'
XREF: FL2786X2022

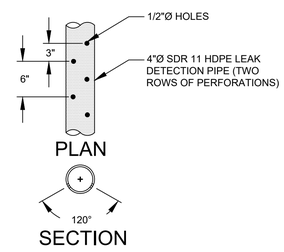


NOTE: 8-INCH DIAMETER LEACHATE COLLECTION CLEANOUT PIPES SHALL ALSO BE BOOTED AS INDICATED IN THIS FIGURE.

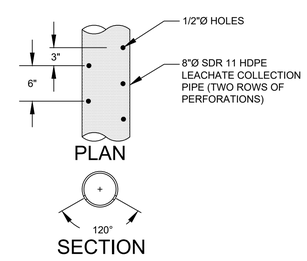
8 / - DETAIL
FINAL COVER SYSTEM ON PRIMARY SUMP RISER PIPE AT ANCHOR TRENCH
SCALE: 1" = 2'
XREF: FL2786X2026



9 / 17 DETAIL (TYPICAL)
PERFORATIONS FOR LEACHATE SUMP RISER PIPES
SCALE: NTS
XREF: FL2786X2013



10 / 17 DETAIL (TYPICAL)
PERFORATIONS FOR LEAK DETECTION PIPE
SCALE: NTS
XREF: FL2786X2014



11 / 17 DETAIL (TYPICAL)
PERFORATIONS FOR LEACHATE COLLECTION PIPE
SCALE: NTS
XREF: FL2786X2015

NOTES:

1. 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
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
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AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: LEACHATE COLLECTION SYSTEM DETAILS - CELLS 12 THROUGH 15

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE
6/15/2016
DATE
CRAIG BROWNE - LICENSE NO. 68613

CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P21
REVIEWED BY:	KBT	DRAWING NO.:	21 OF 48
APPROVED BY:	CRB		

PERMIT DRAWING

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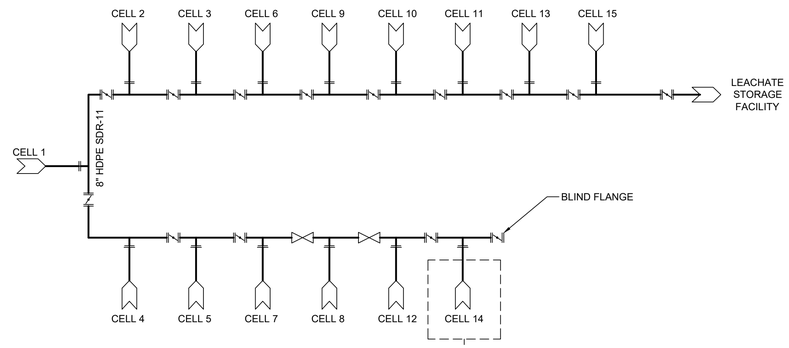
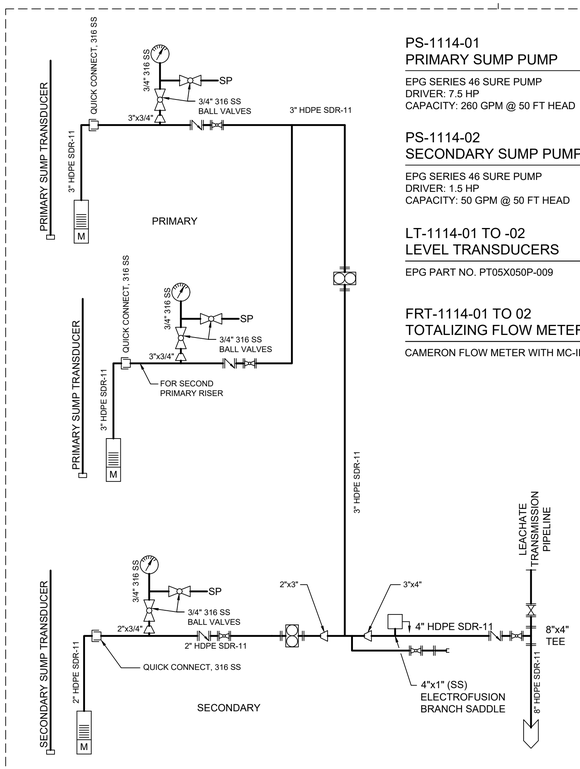


LEGEND

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



LEACHATE COLLECTION SUMP
MECHANICAL FLOW DIAGRAM

SCALE: NTS

PS-1114-01
PRIMARY SUMP PUMP

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

PS-1114-02
SECONDARY SUMP PUMP

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

LT-1114-01 TO -02
LEVEL TRANSDUCERS

EPG PART NO. PT05X050P-009

FRT-1114-01 TO 02
TOTALIZING FLOW METERS

CAMERON FLOW METER WITH MC-II FLOW ANALYZER

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

TITLE: LEACHATE MANAGEMENT SYSTEM SCHEMATIC DIAGRAM

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

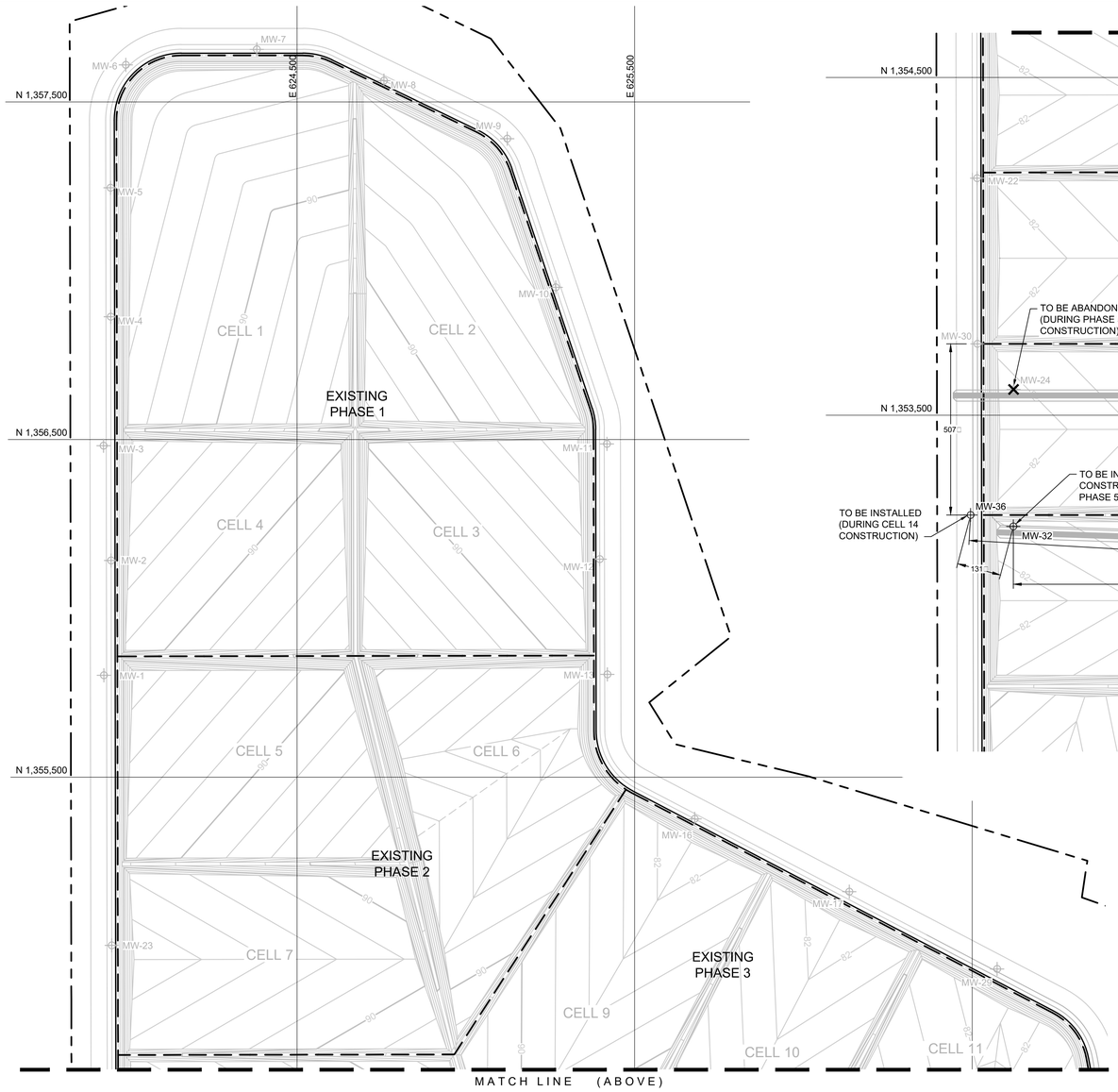
SIGNATURE
6/15/2016
DATE
CRAIG BROWNE - LICENSE NO. 68613

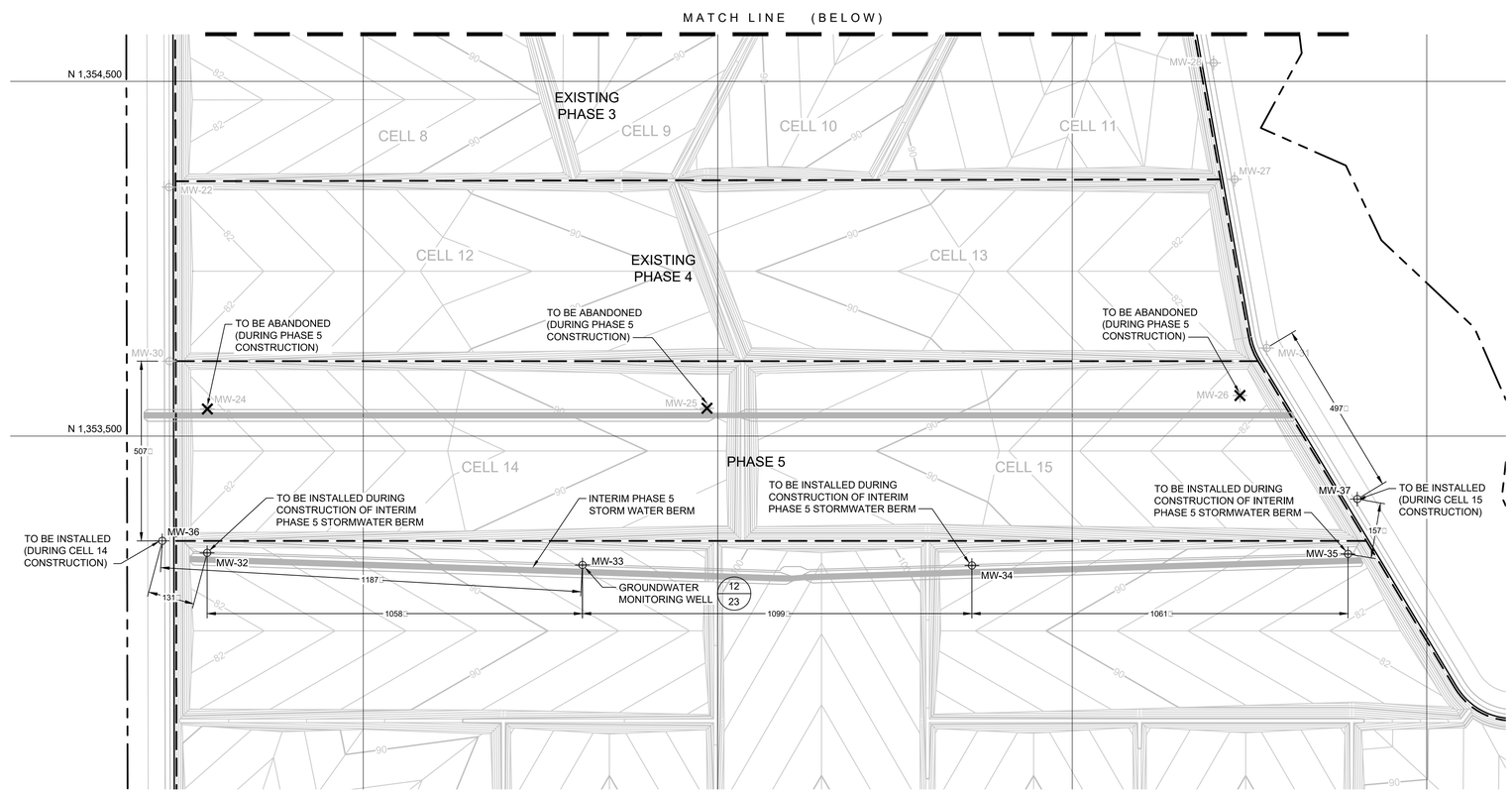
CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P22
REVIEWED BY:	KBT	DRAWING NO.:	
APPROVED BY:	CRB		22 OF 48

PERMIT DRAWING

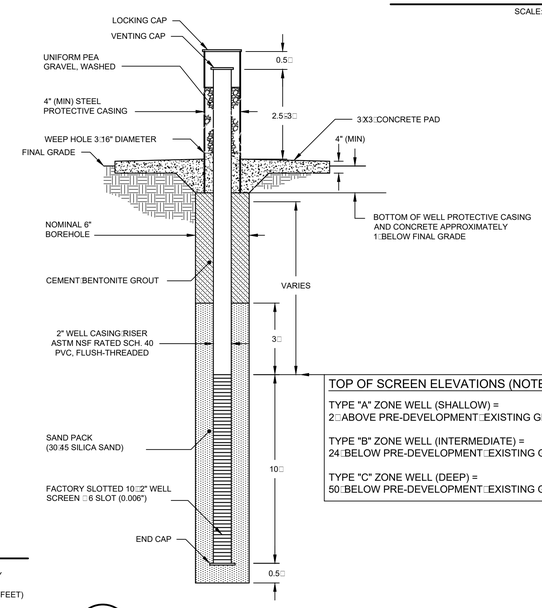
I:\CAD\PROJECTS\JED\AND\LFPERMITPHASES1-5RENEWALPERMITDRAWINGS\FL2786\DWG\SHP\2786\P22\NG @June 2016 - 10:57 AM \ CMaas





PHASES 1 THROUGH 5
GROUNDWATER MONITORING WELL LAYOUT

SCALE: 1" = 200



TOP OF SCREEN ELEVATIONS (NOTE 3)

TYPE "A" ZONE WELL (SHALLOW) = 2ABOVE PRE-DEVELOPMENTEXISTING GRADE

TYPE "B" ZONE WELL (INTERMEDIATE) = 24:BELOW PRE-DEVELOPMENTEXISTING GRADE

TYPE "C" ZONE WELL (DEEP) = 50:BELOW PRE-DEVELOPMENTEXISTING GRADE

12/23 DETAIL (TYPICAL)
GROUNDWATER MONITORING WELL

SCALE: NOT TO SCALE

XREF: FL1962.02X1206

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 LOCATION A TWO WELL CLUSTER WILL BE INSTALLED TO A AND B ZONE DEPTHS. C ZONE WELLS WILL ONLY BE INSTALLED IF SUSTAINED DETECTIONS OF LEACHATE RELATED CONTAMINANTS OF CONCERN ARE DETECTED IN A AND B ZONE WELLS. 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.

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

GROUNDWATER MONITORING WELL SCHEDULE

WELL	NORTHING	EASTING	STATUS
MW-15	1355845.51	624424.85	ABANDONED
MW-16	1355376.34	625677.81	EXISTING
MW-17	1355160.79	626135.96	EXISTING
MW-18	1354645.10	626139.82	EXISTING
MW-19	1354265.03	625742.27	EXISTING
MW-20	1354105.48	625215.92	ABANDONED
MW-21	1354133.12	624582.67	EXISTING
MW-22	1354201.80	623952.49	EXISTING
MW-23	1355001.79	623951.12	EXISTING
MW-24	1353576.17	624060.36	EXISTING
MW-25	1353578.36	625469.63	EXISTING
MW-26	1353614.23	626973.10	EXISTING
MW-27	1354223.69	626957.52	EXISTING
MW-28	1354552.02	626898.52	EXISTING

GROUNDWATER MONITORING WELL SCHEDULE

WELL	NORTHING	EASTING	STATUS
MW-29	1354931.80	626573.82	EXISTING
MW-30	1353711.32	623953.32	EXISTING
MW-31	1353748.34	627048.06	EXISTING
MW-32	1353170.56	624059.78	PROPOSED
MW-33	1353136.09	625118.21	PROPOSED
MW-34	1353134.91	626217.06	PROPOSED
MW-35	1353167.20	627277.73	PROPOSED
MW-36	1353204.07	623933.19	PROPOSED
MW-37	1353322.16	627303.81	PROPOSED

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

PERMIT DRAWING

REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
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AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: GROUNDWATER MONITORING NETWORK

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE 6/15/2016 DATE

CRAIG BROWNE - LICENSE NO. 68613

CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P23
REVIEWED BY:	KBT	DRAWING NO.:	23 OF 48
APPROVED BY:	CRB		

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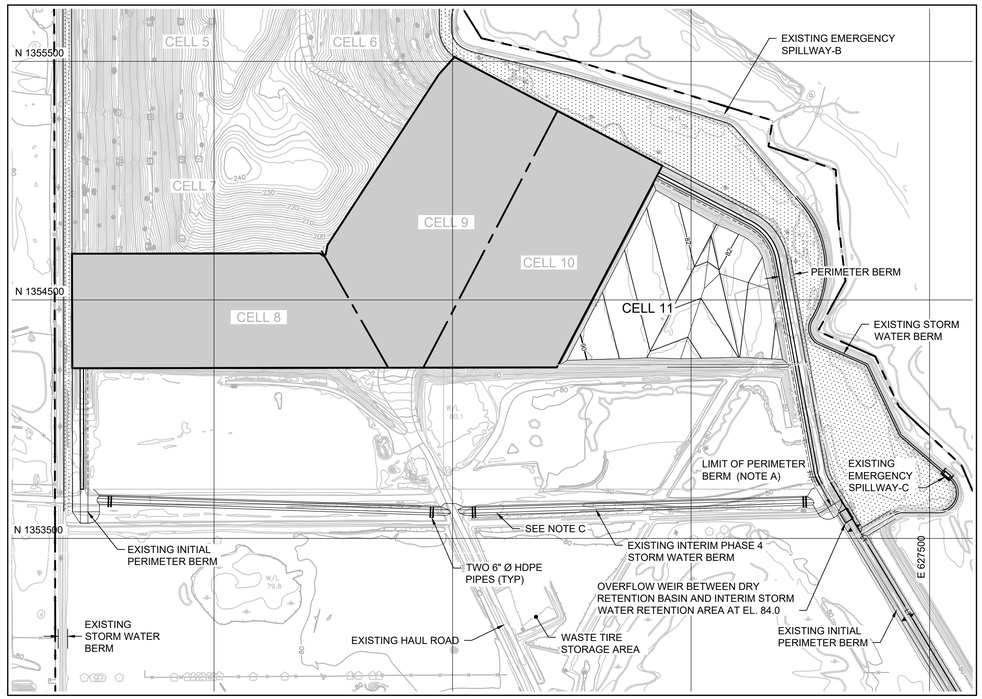
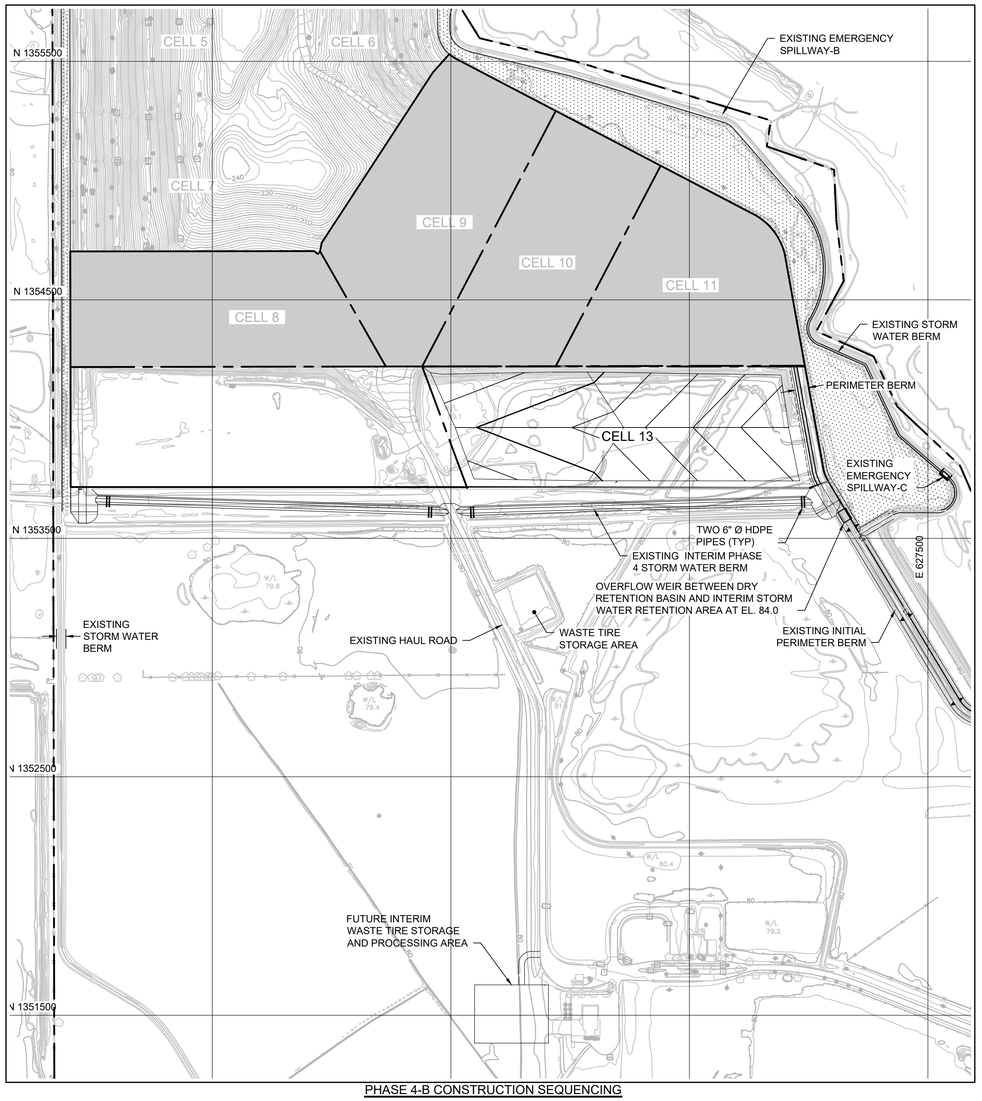


PHASE 4-A CONSTRUCTION SEQUENCING

SCALE: 1" = 300'

PHASE 4-A CONSTRUCTION SEQUENCING NOTES

A. AS OF JUNE 2016, CELL 11 HAS BEEN CONSTRUCTED AND IS CURRENTLY RECEIVING WASTE FOR DISPOSAL.

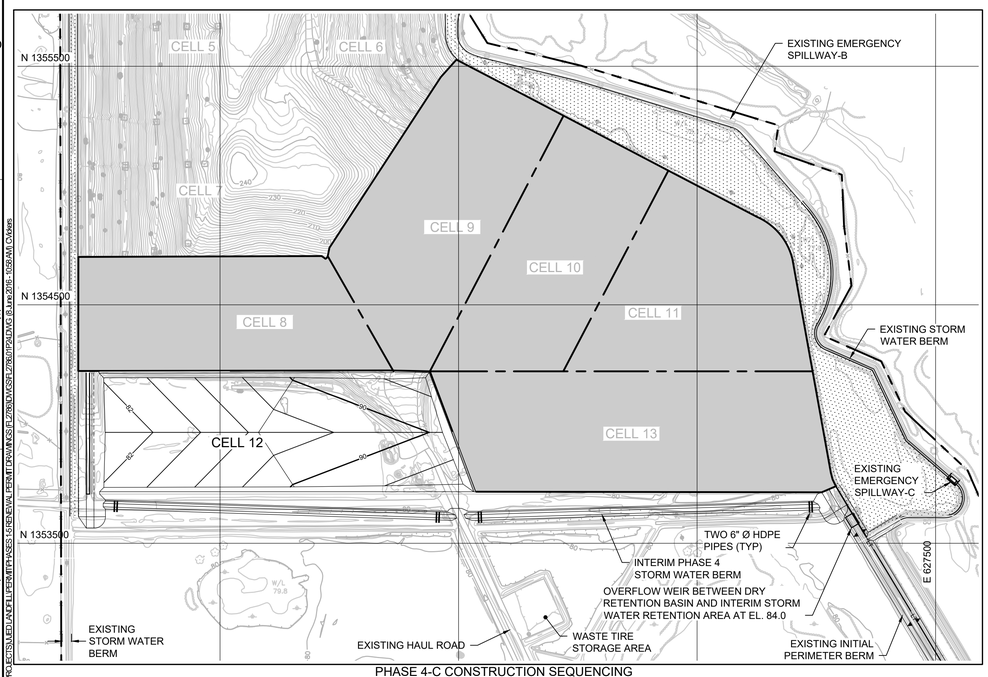


PHASE 4-B CONSTRUCTION SEQUENCING

SCALE: 1" = 300'

PHASE 4-B CONSTRUCTION SEQUENCING NOTES

A. AS OF JUNE 2016, CELL 13 HAS BEEN CONSTRUCTED AND AWAITING FDEP APPROVAL FOR DISPOSAL.



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 12 DURING CONSTRUCTION OF CELL 12.

B. CONSTRUCT CELL 12.

C. ABANDON TEMPORARY WATER QUALITY MONITORING WELL MW-24 AND INSTALL NEW WELL MW-30.

N

0 300' 600'

SCALE IN FEET

LEGEND

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

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 20 MAY 2015.
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 4 HAS BEEN CONSTRUCTED IN ACCORDANCE WITH ERP49-0199752.010.EI AND APPROVED FOR OPERATIONAL PHASE BY THE FDEP.
7. DURING CELL CONSTRUCTION, CONTRACTOR STAGING AREAS WILL BE LOCATED IN ADJACENT FUTURE CELL FOOTPRINT.

PERMIT DRAWING

REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
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AUTHORIZATION NUMBER: 4321

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

TITLE: PHASE 4 CONSTRUCTION SEQUENCING

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE

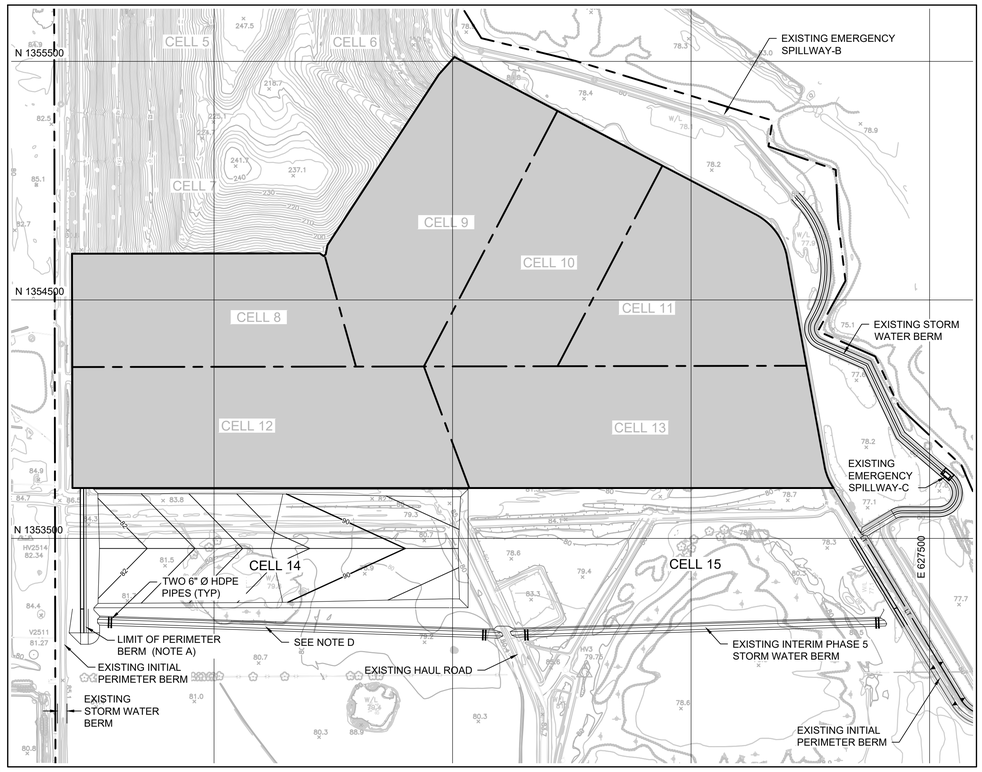
6/15/2016
DATE

CRAIG BROWNE - LICENSE NO. 68813

CRAIG R. BROWNE LICENSE No. 68813 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P24
REVIEWED BY:	KBT	DRAWING NO.:	24 OF 48
APPROVED BY:	CRB		

FL:CADD/PROJECTS/JEDLANDFILL/PERMITPAGES/1-5RENEWAL PERMIT DWG/FIGS/FL2786.01VACSH-2786.01PALCKG.dwg zz/16- 1:59:AM,CMeers



PHASE 5-A CONSTRUCTION SEQUENCING

SCALE: 1" = 300'

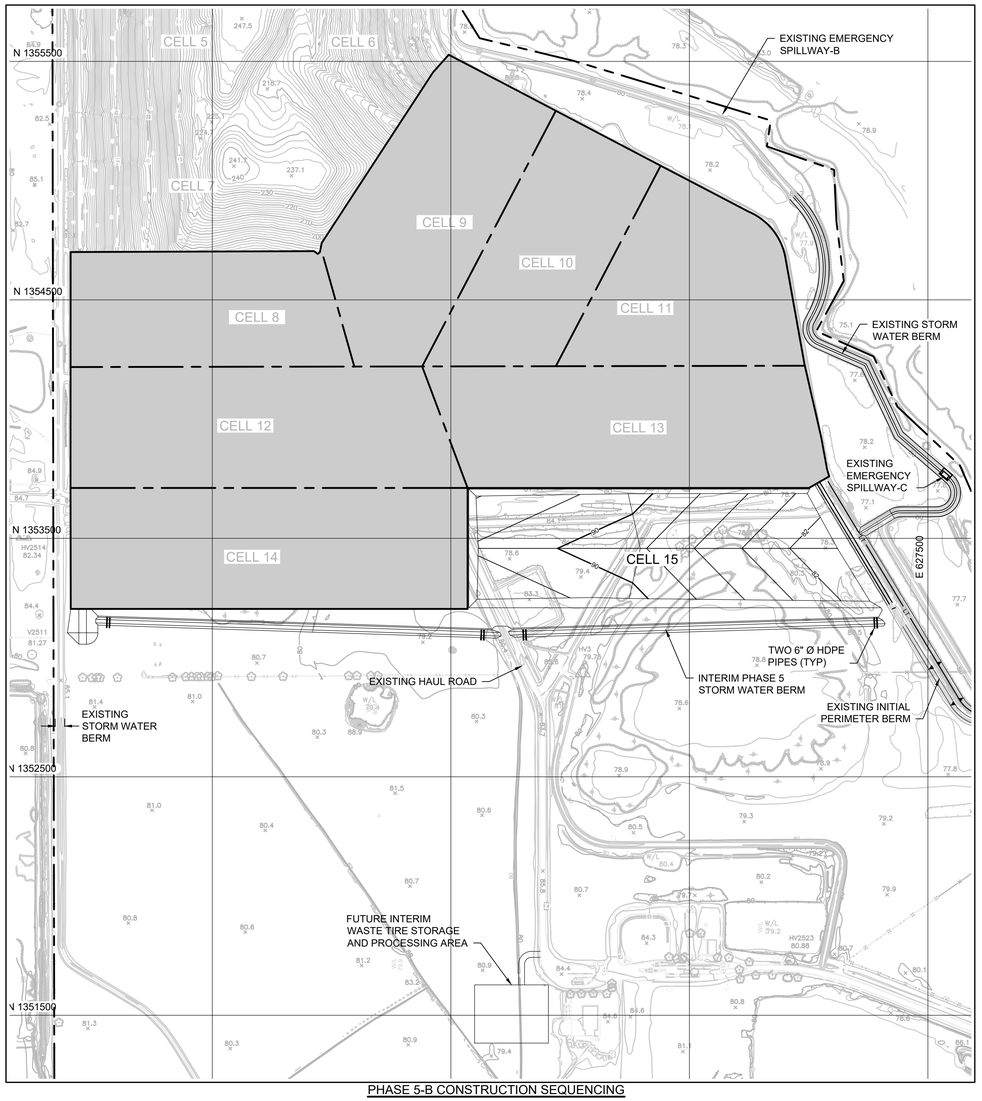
PHASE 5-A CONSTRUCTION SEQUENCING NOTES

A. OBTAIN ERP FOR PHASE 5 STORM WATER MANAGEMENT SYSTEM CONSTRUCTION.

B. CONSTRUCT PHASE 5 STORM WATER MANAGEMENT SYSTEM AND OBTAIN OPERATIONAL APPROVAL.

C. CONSTRUCT CELL 14. EXTEND EXISTING PERIMETER BERM (CREST EL. 96.0) TO 100 FT SOUTH OF LIMITS OF CELL 14 DURING CONSTRUCTION OF CELL 14.

D. ABANDON TEMPORARY WATER QUALITY MONITORING WELLS MW-24, MW-25, AND DP-19 AT INTERIM PHASE 5 STORM WATER BERM. INSTALL NEW WATER QUALITY MONITORING WELLS MW-32 THROUGH MW-35.



PHASE 5-B CONSTRUCTION SEQUENCING

SCALE: 1" = 300'

PHASE 5-B CONSTRUCTION SEQUENCING NOTES

A. EXTEND EXISTING PERIMETER BERM TO 100 FT SOUTH OF LIMITS OF CELL 15 DURING CONSTRUCTION OF CELL 15.

B. CONSTRUCT CELL 15.

C. ABANDON TEMPORARY WATER QUALITY MONITORING WELL MW-35 AND MW-25 Exp AND INSTALL NEW WELL MW-37.

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 20 MAY 2015.
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 FUTURE CELL FOOTPRINT.

N

0 300' 600'

SCALE IN FEET

LEGEND

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

PERMIT DRAWING

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ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: PHASE 5 CONSTRUCTION SEQUENCING

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE

6/15/2016

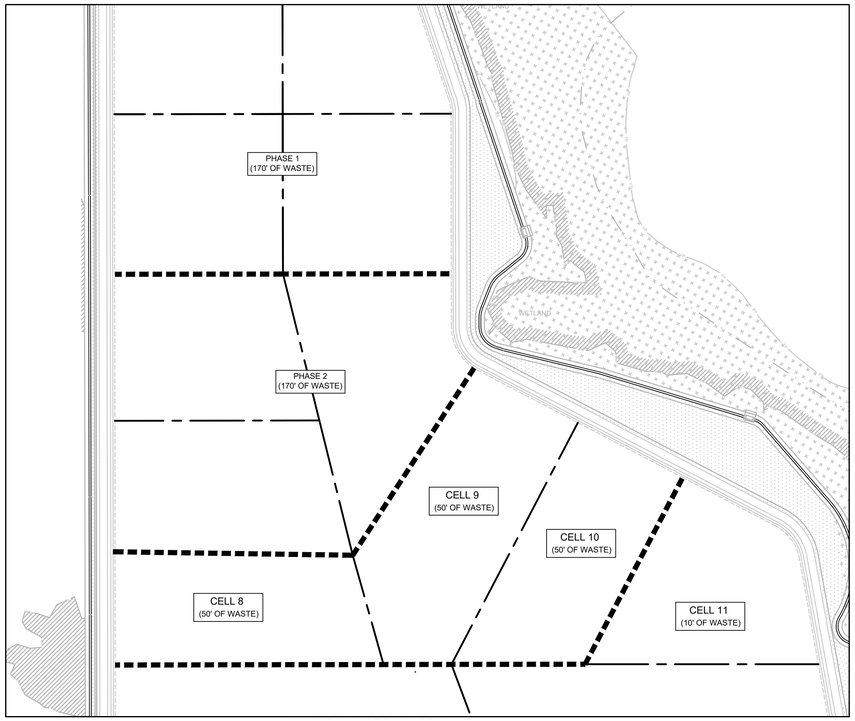
DATE

CRAIG BROWNE - LICENSE NO. 68813

CRAIG R. BROWNE LICENSE No. 68813 STATE OF FLORIDA PROFESSIONAL ENGINEER

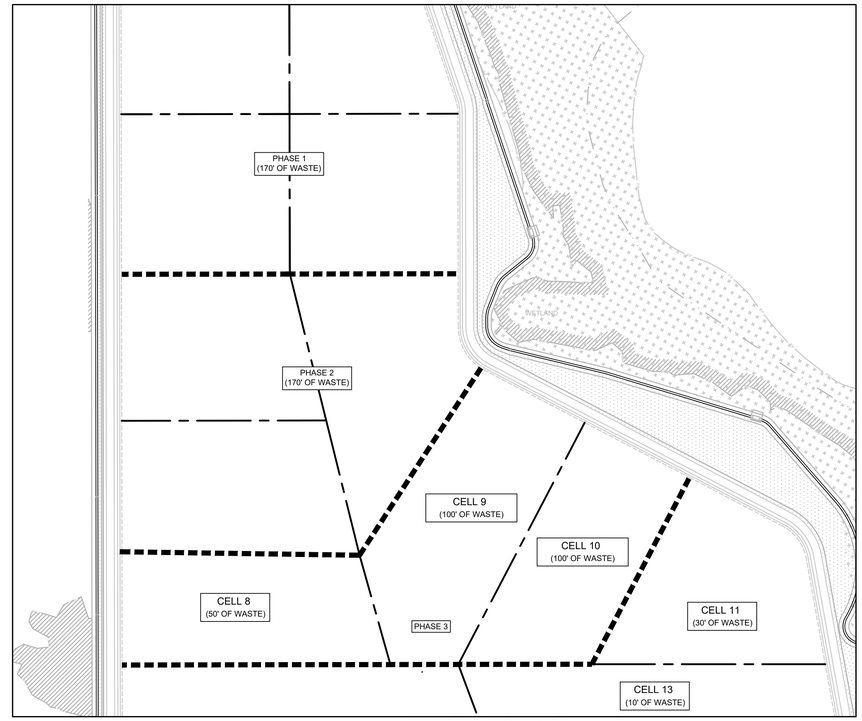
DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P25
REVIEWED BY:	KBT	DRAWING NO.:	25 OF 48
APPROVED BY:	CRB		

FL:\CADD\PROJECTS\JED\LANDFILL\PERMIT\PHASES 1-5\RENEWAL PERMIT DRAWINGS\FL2786\DWGS\FL2786\DWGS\FL2786.01P25.DWG 8 June 2016 - 10:59 AM \ CMVeis



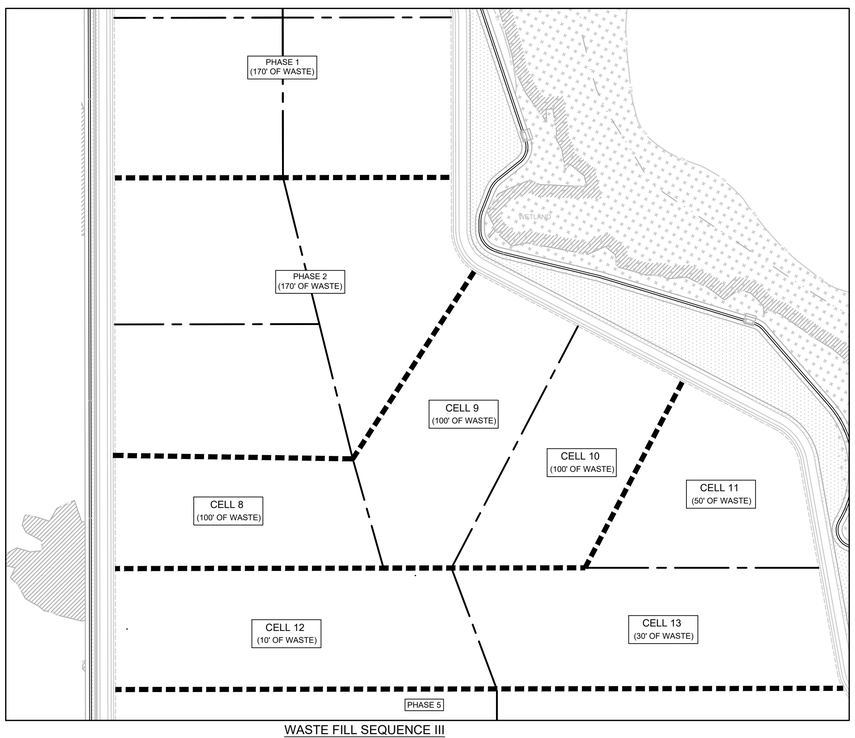
WASTE FILL SEQUENCE I

SCALE: 1" = 300'



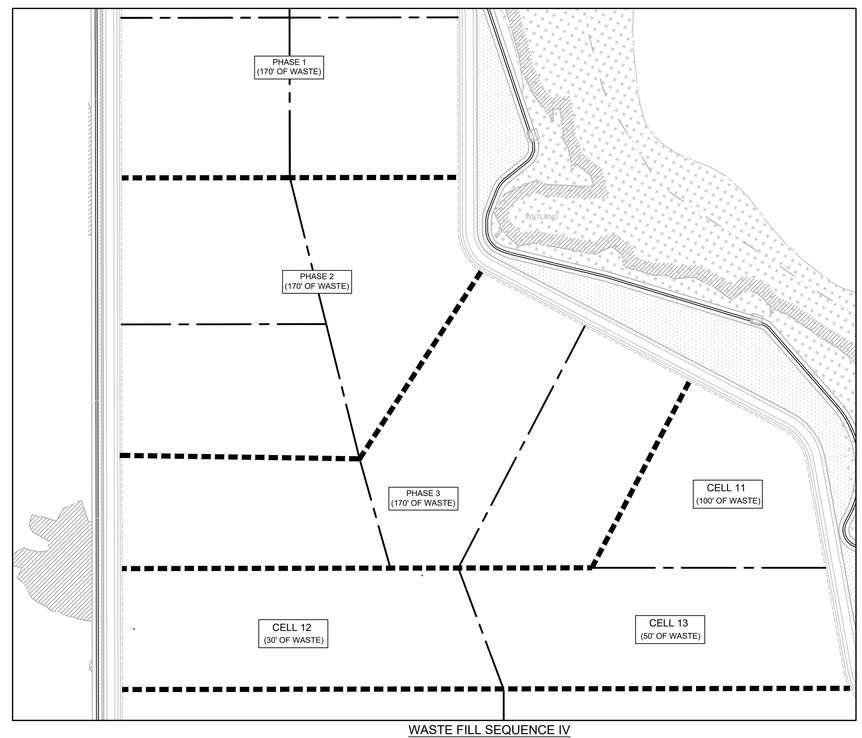
WASTE FILL SEQUENCE II

SCALE: 1" = 300'



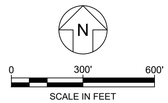
WASTE FILL SEQUENCE III

SCALE: 1" = 300'



WASTE FILL SEQUENCE IV

SCALE: 1" = 300'



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	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0960 - FX:813.558.9726
AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: WASTE FILL SEQUENCING PLAN I

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

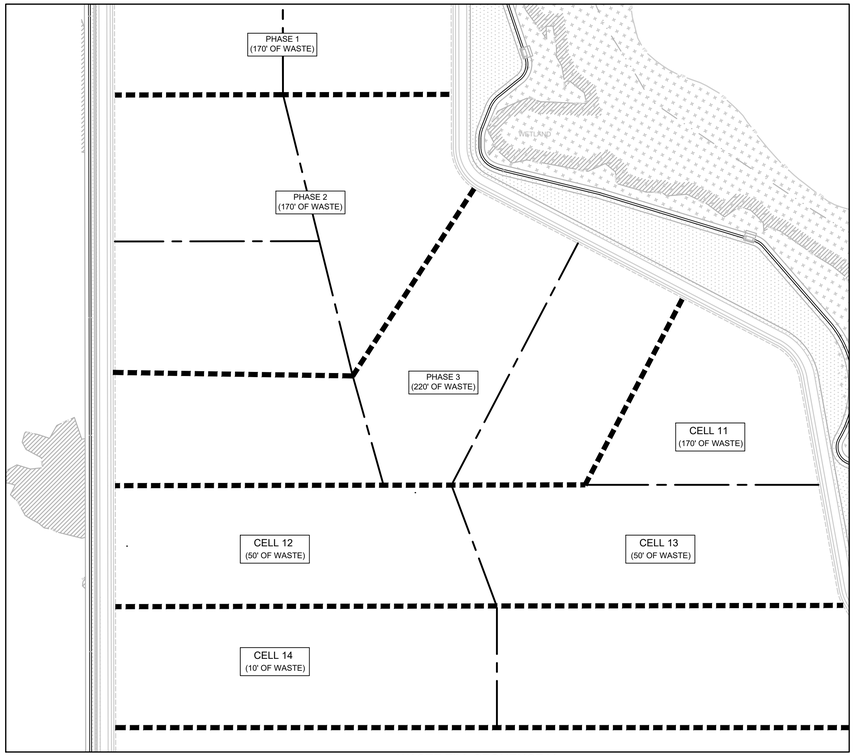
SIGNATURE
6/15/2016
DATE
CRAIG BROWNE - LICENSE NO. 68613

CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P26
REVIEWED BY:	KBT	DRAWING NO.:	26 OF 48
APPROVED BY:	CRB		

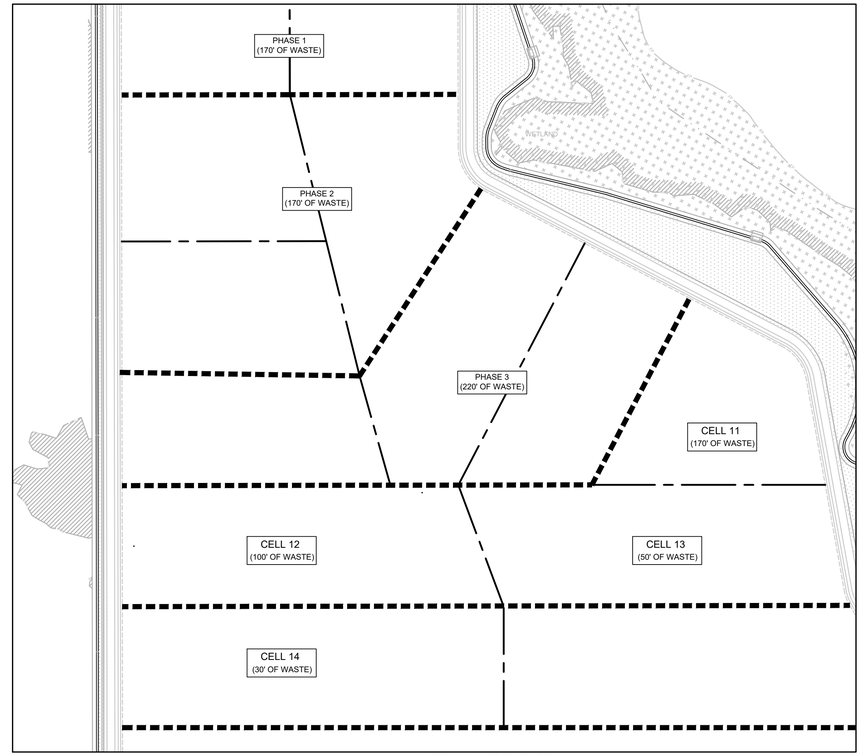
PERMIT DRAWING

I:\CAD\PROJECTS\JED\ANDFILL\PERMIT\PHASES 1-5\RENEWAL PERMIT DWG\WCS\FL2786\DWCS\FL2786\DWCS\FL2786\WP26.DWG (June 2016 - 10:39 AM) CMvaes



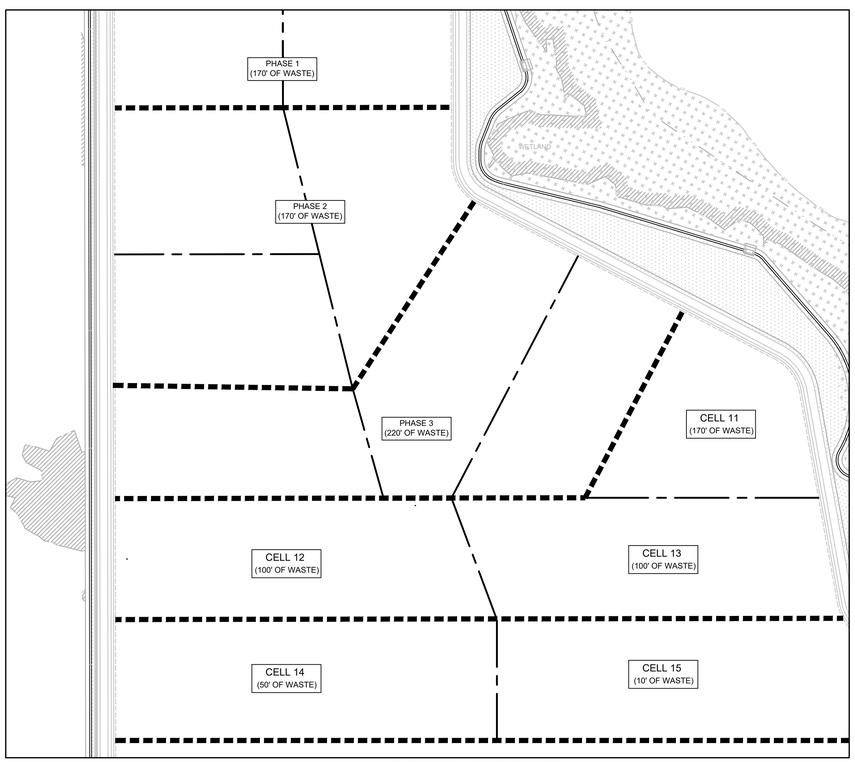
WASTE FILL SEQUENCE V

SCALE: 1" = 300'



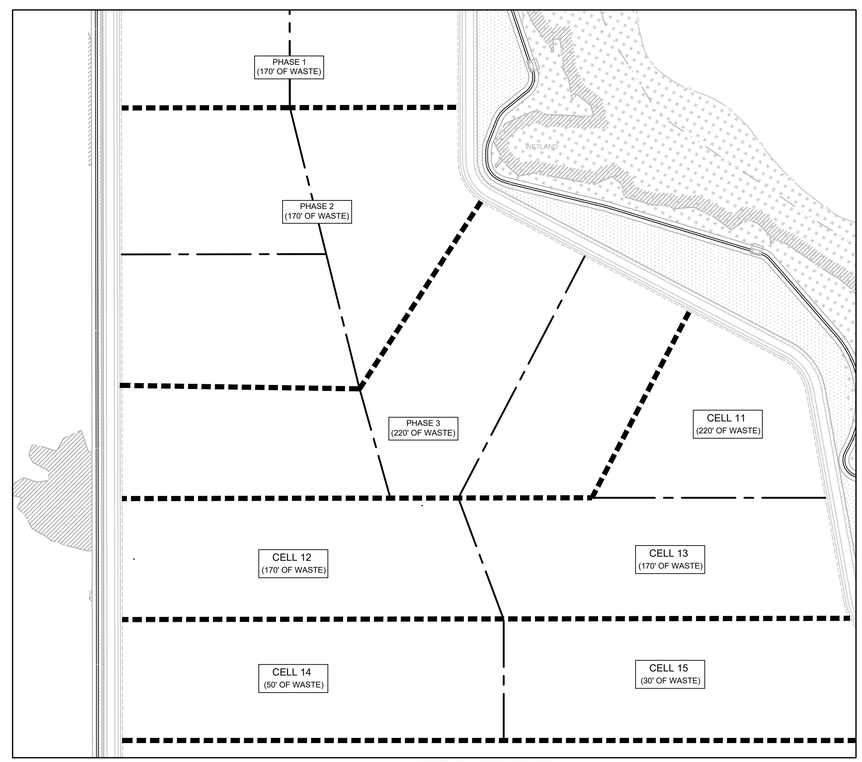
WASTE FILL SEQUENCE VI

SCALE: 1" = 300'



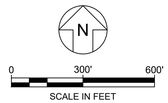
WASTE FILL SEQUENCE VII

SCALE: 1" = 300'



WASTE FILL SEQUENCE VIII

SCALE: 1" = 300'



NOTES:

1. THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE A CONCEPTUAL WASTE FILLING SEQUENCE FOR PHASES 1 - 5.
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	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0990 - FX:813.558.9726
AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: WASTE FILL SEQUENCING PLAN II

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

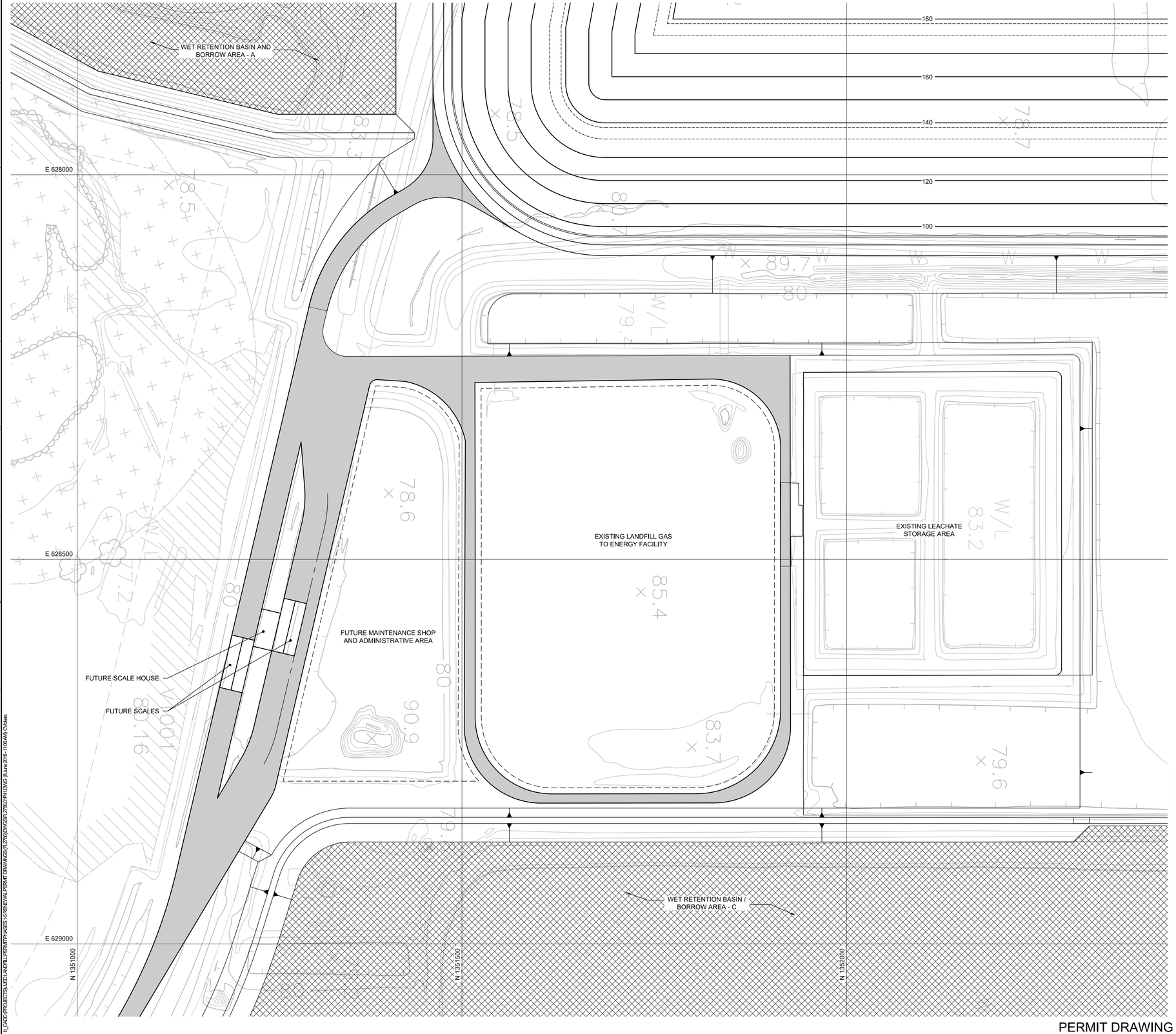
SIGNATURE
6/15/2016
DATE
CRAIG BROWNE - LICENSE NO. 68813

CRAIG R. BROWNE LICENSE No. 68813 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P26
REVIEWED BY:	KBT	DRAWING NO.:	27 OF 48
APPROVED BY:	CRB		

PERMIT DRAWING

I:\CADD\PROJECTS\JED\JED LF\PERMIT\PHASES 1-5\RENEWAL PERMIT DRAWINGS\FL2786\DWGS\FL2786\DWGS\FL2786\P26\DWG (June 27th -11:00 AM) CVbass



N

0 60' 120'

SCALE IN FEET

LEGEND

80	EXISTING GROUND ELEVATION (FEET)
	EXISTING FENCE
160	LATERAL EXPANSION FINAL COVER ELEVATION (FEET)
	PAVED AREAS
	WET RETENTION / BORROW AREA BOUNDARY
	WETLAND (NOTE 3)

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. TOPOGRAPHIC INFORMATION SHOWN ON THIS DRAWING WAS PROVIDED BY BASE MAPPING LTD BASED ON AN AERIAL PHOTOGRAPH TAKEN ON 20 MAY 2015.
3. THE WETLAND BOUNDARY INFORMATION SHOWN IS BASED ON: A FIELD SURVEY DATED 15 MAY 2002 BY JOHNSTON SURVEYING INC. OF WETLANDS BOUNDARIES FLAGGED BY BIOLOGICAL RESEARCH ASSOCIATES, INC. (BRA), THE EXISTING JURISDICTIONAL WETLAND DETERMINATIONS, A PHOTO INTERPRETATION OF WETLAND BOUNDARIES BY BRA IN AREAS OUTSIDE THE LIMITS OF CONSTRUCTION, AND A FIELD SURVEY DATED 24 NOVEMBER 2010 BY PEAVEY & ASSOCIATES OF WETLAND BOUNDARIES FLAGGED BY ENTRIX, INC.

REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0990 - FX:813.558.9726
AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: SCALE AND ADMINISTRATIVE AREA LAYOUT

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE

6/15/2016
DATE

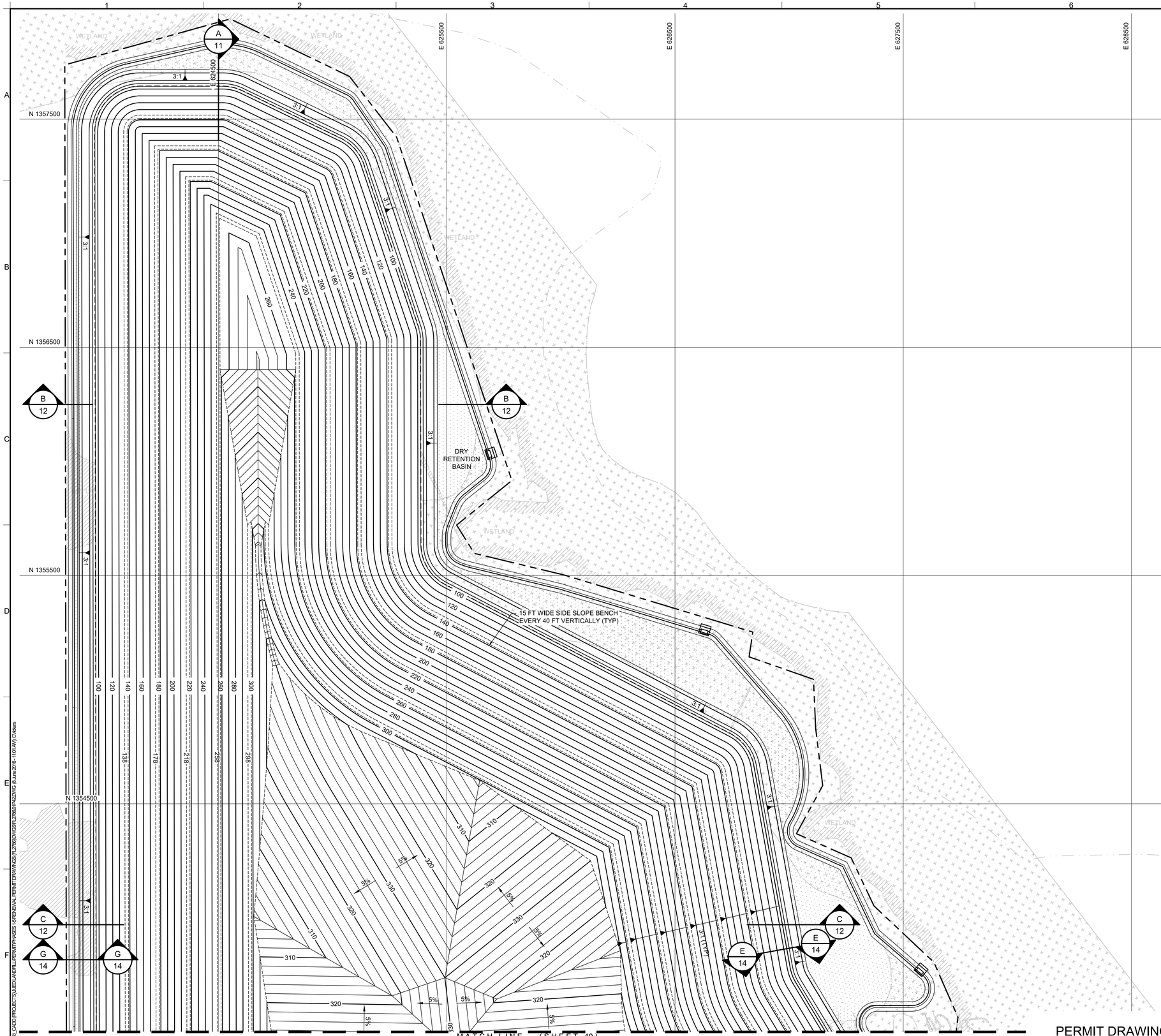
CRAIG BROWNE - LICENSE NO. 68813

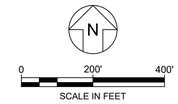
CRAIG R. BROWNE LICENSE No. 68813 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P41
REVIEWED BY:	KBT	DRAWING NO.:	
APPROVED BY:	CRB		41 OF 48

PERMIT DRAWING

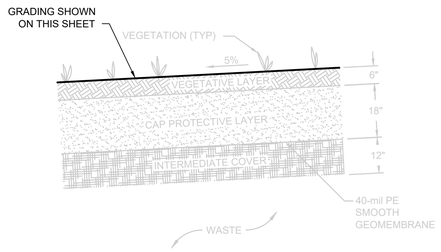
I:\CADD\PROJECTS\JAED\LANDFILL\PERMIT\PHASES 1-5\RENEWAL PERMIT DRAWINGS\FL2786\CMV\GSFL2786.01P41.DWG (8.0.exe,2016-11:00:44) CMvaes





LEGEND

- PROPERTY BOUNDARY
- 80 — EXISTING GROUND ELEVATION (FEET) (SEE NOTE 3)
- EXISTING FENCE
- STORMWATER MANAGEMENT POND
- WET RETENTION / BORROW AREA BOUNDARY
- 160 — PERMITTED FINAL COVER ELEVATION (FEET)



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. TOPOGRAPHIC INFORMATION SHOWN ON THIS DRAWING WAS PROVIDED BY BASE MAPPING CO. LTD BASED ON AN AERIAL PHOTOGRAPH TAKEN ON 20 MAY 2015.
4. THE WETLAND BOUNDARY INFORMATION SHOWN IS BASED ON: A FIELD SURVEY DATED 15 MAY 2002 BY JOHNSTON SURVEYING INC. OF WETLANDS BOUNDARIES FLAGGED BY BIOLOGICAL RESEARCH ASSOCIATES, INC. (BRA). THE EXISTING JURISDICTIONAL WETLAND DETERMINATIONS, A PHOTO INTERPRETATION OF WETLAND BOUNDARIES BY BRA IN AREAS OUTSIDE THE LIMITS OF CONSTRUCTION, AND A FIELD SURVEY DATED 24 NOVEMBER 2010 BY PEAVEY & ASSOCIATES OF WETLAND BOUNDARIES FLAGGED BY ENTRIX, INC.

REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0990 - FX:813.558.9726
AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: FINAL COVER SYSTEM GRADING PLAN I

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE 6/15/2016 DATE

CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

CRAIG BROWNE - LICENSE NO. 68613

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P42
REVIEWED BY:	KBT	DRAWING NO.:	42 OF 48
APPROVED BY:	CRB		

PERMIT DRAWING

E:\CADD\PROJECTS\JED LANDFILL\PERMIT\PHASES 1-5 RENEWAL PERMIT DRAWINGS\FL2786\DWGS\FL2786.01P42.DWG 6/15/2016 11:01 AM CMarks

MATCH LINE (SHEET 39)

N

0 200' 400'
SCALE IN FEET

DRY RETENTION BASIN

WET RETENTION
BASIN AND BORROW AREA - C
63 AC

EXISTING
LEACHATE
STORAGE AREA

EXISTING LANDFILL GAS
TO ENERGY FACILITY

FUTURE MAINTENANCE SHOP
AND ADMINISTRATIVE AREA

DRY RETENTION BASIN

WET RETENTION
BASIN AND BORROW AREA - A
73 AC

FUTURE SCALE
HOUSE AND SCALES

N 1352500
N 1351500
N 1350500
N 1349500
E 624500
E 625500
E 626500
E 627500
E 628500
E 629500

LEGEND

- PROPERTY BOUNDARY
- 80 EXISTING GROUND ELEVATION (FEET) (NOTE 3)
- EXISTING FENCE
- STORMWATER MANAGEMENT BASIN
- WET RETENTION / BORROW AREA BOUNDARY
- 160 PERMITTED FINAL COVER ELEVATION (FEET)

GRADING SHOWN
ON THIS SHEET

VEGETATION (TYP)
5%
VEGETATIVE LAYER
CAP PROTECTIVE LAYER
INTERMEDIATE COVER
WASTE
6"
18"
12"
40-mil PE
SMOOTH
GEOMEMBRANE

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).
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REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0990 - FX:813.558.9726
AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: FINAL COVER SYSTEM GRADING PLAN II

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

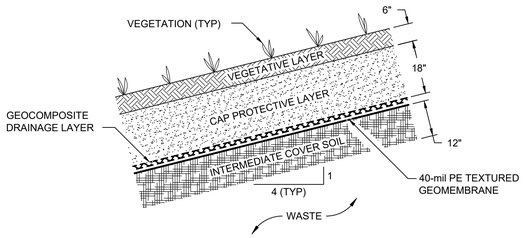
SIGNATURE
6/15/2016
DATE
CRAIG BROWNE - LICENSE NO. 68813

CRAIG R. BROWNE LICENSE No. 68813 STATE OF FLORIDA PROFESSIONAL ENGINEER

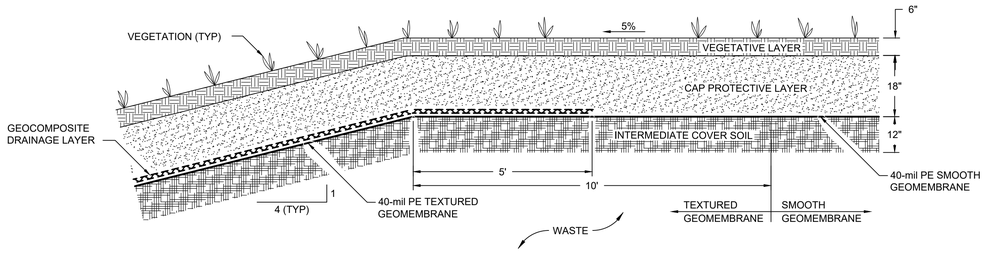
DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P42
REVIEWED BY:	KBT	DRAWING NO.:	43 OF 48
APPROVED BY:	CRB		

PERMIT DRAWING

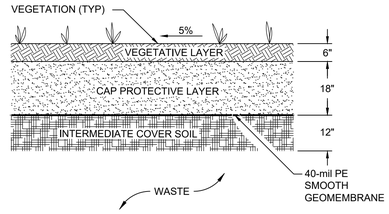
FL:\CADD\PROJECTS\JED LANDFILL\PERMIT\PHASES 1-5 RENEWAL PERMIT DRAWINGS\FL2786\DWGS\FL2786\PH2DWG 8 JUN 2016 - 11:01 AM, CMarks



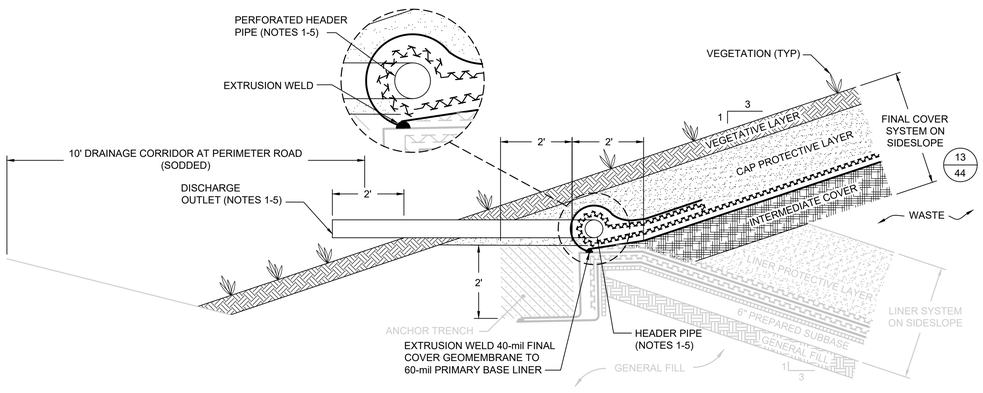
13 / 11 DETAIL (TYPICAL)
FINAL COVER SYSTEM ON SIDESLOPE
SCALE: 1" = 2'
XREF: FL2786X1005



14 / 11 DETAIL (TYPICAL)
FINAL COVER SYSTEM AT CREST
SCALE: 1" = 2'
XREF: FL2786X1083



15 / 11 DETAIL (TYPICAL)
FINAL COVER SYSTEM ON TOP DECK
SCALE: 1" = 2'
XREF: FL2786X1082



16 / 11 DETAIL (TYPICAL)
FINAL COVER SYSTEM TIE-IN AT PERIMETER BERM ANCHOR TRENCH
SCALE: 1" = 2'
XREF: FL2786X5002

NOTES:

1. HEADER AND DISCHARGE OUTLET PIPES SHALL BE CORRUGATED HDPE PIPE 4-IN IN DIAMETER. THE HEADER PIPE SHALL BE PERFORATED.
2. DISCHARGE OUTLET PIPES SHALL BE SPACED NO MORE THAN 250 FT APART.
3. HEADER PIPE SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1%.
4. PIPE SHALL BE PROVIDED WITH AN OUTLET (T OR L) THAT DISCHARGES THE WATER INTO THE DRAINAGE SWALE.
5. HEADER PIPES SHALL BE TERMINATED WITH A CAP ON EITHER SIDE OF THE FINAL COVER DOWNCHUTES AND AT END LOCATIONS.
6. 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
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

Geosyntec consultants
13101 TELECOM DRIVE, SUITE 120
TEMPLE TERRACE, FLORIDA 33637 USA
PH: 813.558.0960 - FX:813.558.9726
AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: FINAL COVER SYSTEM DETAILS

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE
6/15/2016
DATE
CRAIG BROWNE - LICENSE NO. 68613

CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P44
REVIEWED BY:	KBT	DRAWING NO.:	44 OF 48
APPROVED BY:	CRB		

PERMIT DRAWING

I:_CADD\PROJECTS\JED\LANDFILL\PERMIT\PHASES 1-5\RENEWAL PERMIT\DWG\FL2786\DWG\SHT\FL2786\DWG\SHT\FL2786.01P44.DWG (June 2016 - 11:01 AM) CMvieira

N

0 300' 600'

SCALE IN FEET

LEGEND

- PROPERTY BOUNDARY
- 80 — EXISTING GROUND ELEVATION (FEET)
- EXISTING FENCE
- STORMWATER DRY DETENTION BASIN
- WET RETENTION / BORROW AREA BOUNDARY
- 160 — PERMITTED FINAL COVER ELEVATION (FEET)
- 200 — LATERAL EXPANSION FINAL COVER ELEVATION (FEET)
- EXISTING 18" DOWNCHUTE
- EXISTING DRAINAGE STRUCTURE
- PROPOSED 24" DOWNCHUTE
- PROPOSED 18" DOWNCHUTE
- PROPOSED 30" DOWNCHUTE
- PROPOSED DRAINAGE STRUCTURE
- PROPOSED TOP AREA BERM

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. MOSQUITO CONTROL PONDS SHOWN HEREON ARE IN ACCORDANCE WITH SHEET 36 AND DETAIL 29 ON SHEET 50 OF THE SOLID WASTE PERMIT DRAWINGS DATED 17 MAY 2002 (LAST REVISED 16 SEPTEMBER 2002).
3. THESE SECTIONS AND/OR DETAILS WERE INCLUDED IN THE VERTICAL EXPANSION PERMIT DRAWINGS DATED SEPTEMBER 2007. THERE ARE NO SUBSTANTIAL CHANGES TO THESE SECTIONS AND/OR DETAILS. THEREFORE, THESE SECTIONS AND/OR DETAILS ARE NOT INCLUDED IN THIS PERMIT DRAWING SET.
4. TOPOGRAPHIC INFORMATION SHOWN ON THIS DRAWING WAS PROVIDED BY BASE MAPPING CO. LTD BASED ON AN AERIAL PHOTOGRAPH TAKEN ON 20 MAY 2015.

REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

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AUTHORIZATION NUMBER: 4321

Progressive Waste Solutions
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

TITLE: STORM WATER MANAGEMENT PLAN

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE

6/15/2016
DATE

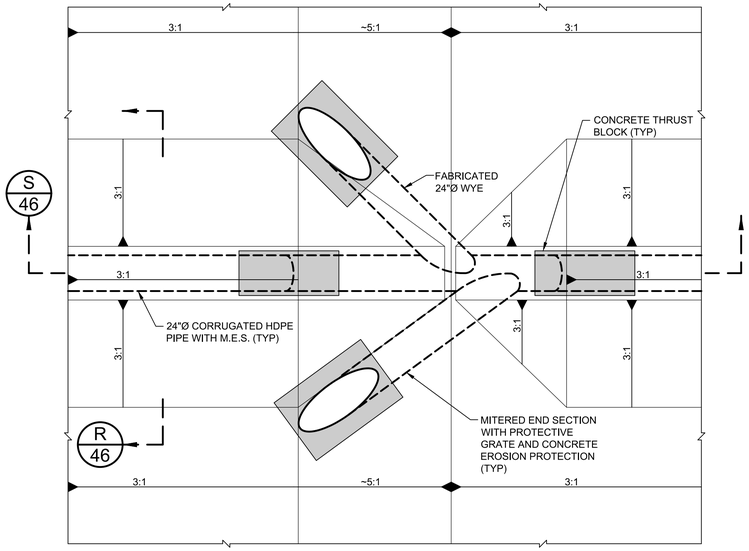
CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

CRAIG BROWNE - LICENSE NO. 68613

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P45
REVIEWED BY:	KBT	DRAWING NO.:	45 OF 48
APPROVED BY:	CRB		

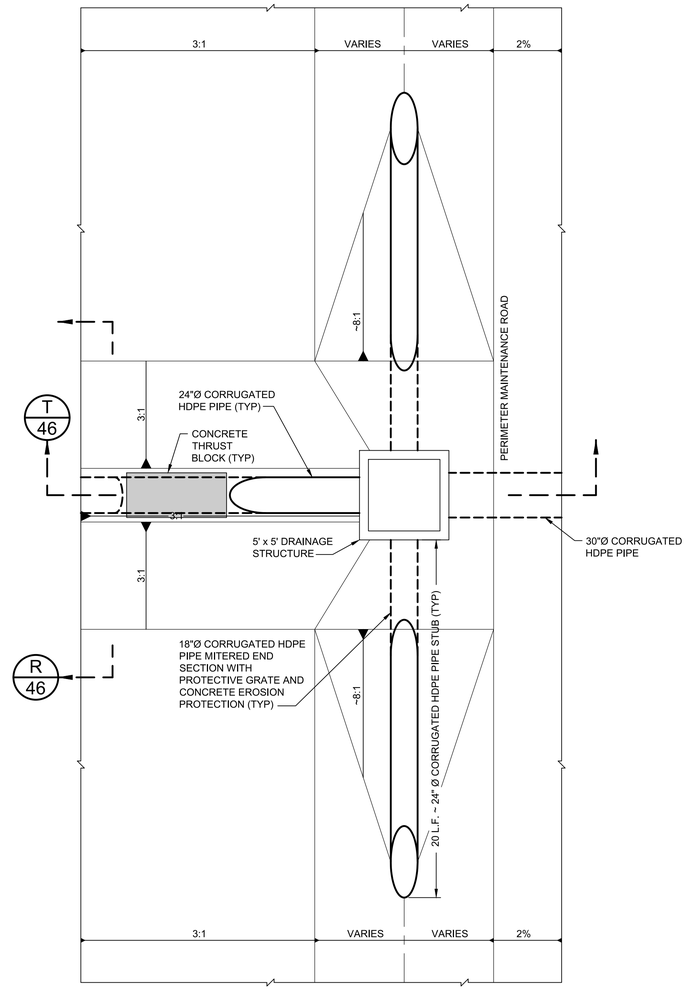
PERMIT DRAWING

FL:\CAD\PROJECTS\JED\LANDFILL\PERMIT\PHASES 1-5\RENEWAL PERMIT DRAWINGS\FL2786\DWG\SFL2786.01P45.DWG [B.Jun.2016-11:02AM] CVMoss



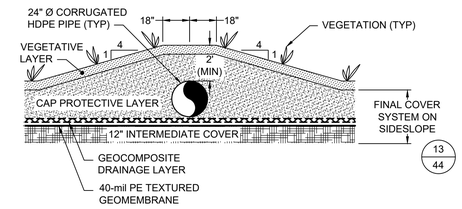
17/45 PLAN (TYPICAL)
24" Ø DOWNCHUTE PIPE AT SIDE SLOPE BENCH

SCALE: 1" = 4'
XREF: FL2786.01P40



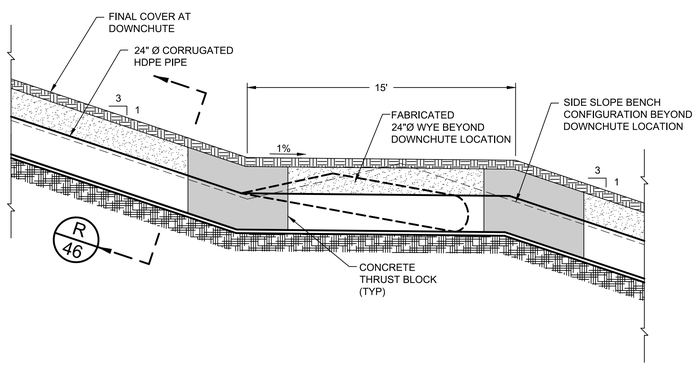
18/45 PLAN (TYPICAL)
24" Ø DOWNCHUTE PIPE AT DRAINAGE STRUCTURE / TOE

SCALE: 1" = 4'
XREF: FL2786.01P40



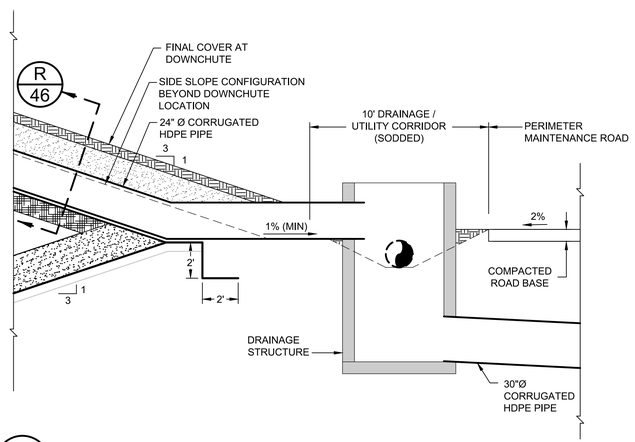
R/46 SECTION (TYPICAL)
FINAL COVER CONFIGURATION AT DOWNCHUTE LOCATIONS

SCALE: 1" = 4'
XREF: FL2786K3002



S/46 SECTION (TYPICAL)
24" Ø DOWNCHUTE PIPE AT SIDE SLOPE BENCH

SCALE: 1" = 4'
XREF: FL2786.01P40



T/46 SECTION (TYPICAL)
24" Ø DOWNCHUTE PIPE AT DRAINAGE STRUCTURE / TOE

REV	DATE	DESCRIPTION	DRN	APP
0	JUN 2016	ISSUED FOR FDEP APPROVAL	CMV	CRB

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AUTHORIZATION NUMBER: 4321

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

TITLE: STORM WATER MANAGEMENT DETAILS I

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

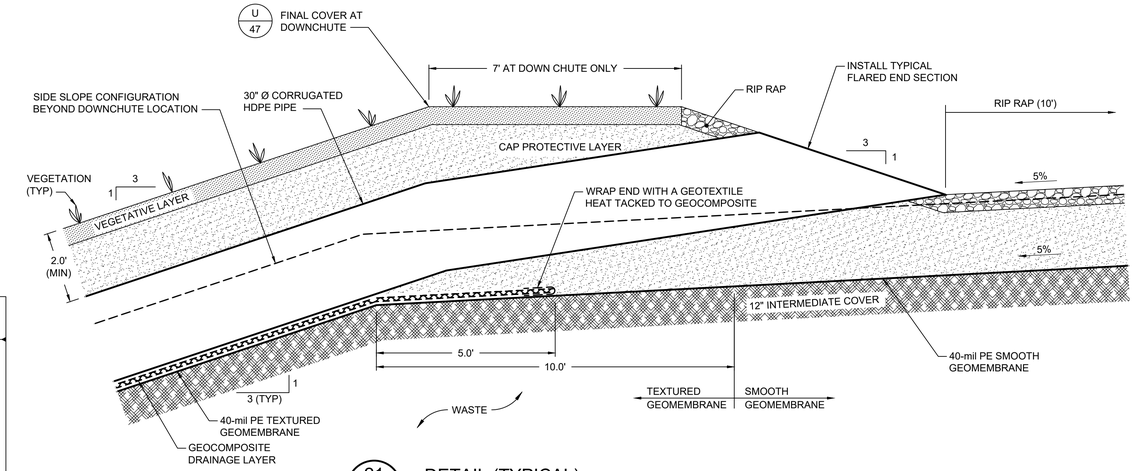
SITE: J.E.D. SOLID WASTE MANAGEMENT FACILITY

SIGNATURE 6/15/2016 DATE
CRAIG R. BROWNE LICENSE No. 68813 STATE OF FLORIDA PROFESSIONAL ENGINEER
CRAIG BROWNE - LICENSE NO. 68813

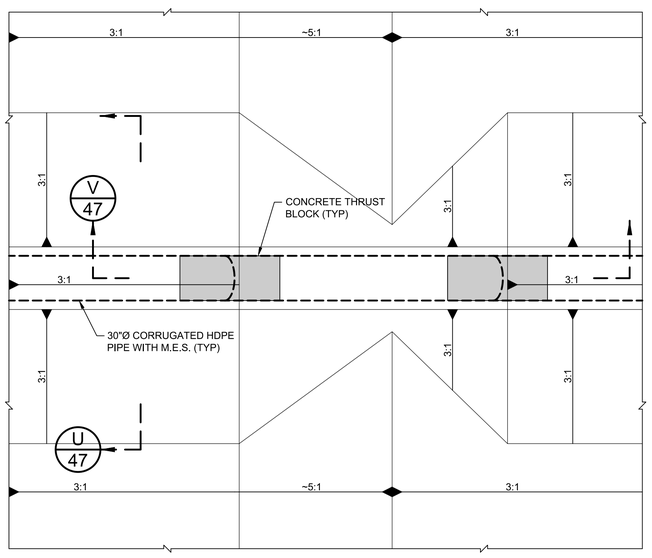
DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P46
REVIEWED BY:	KBT	DRAWING NO.:	46 OF 48
APPROVED BY:	CRB		

PERMIT DRAWING

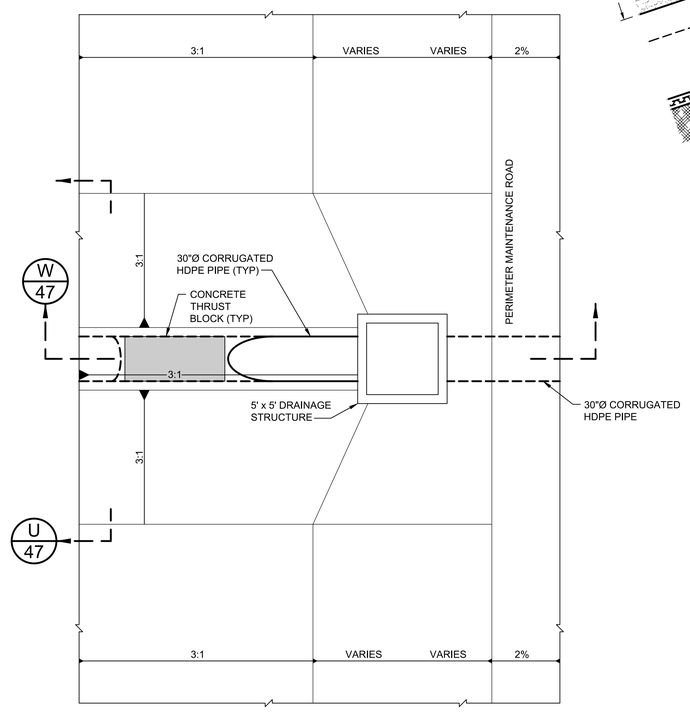
L:\CADD\PROJECTS\JED LANDFILL\PERMIT\PHASES 1-5\RENEWAL PERMIT DRAWINGS\FL2786\CMV\SFL2786.01P46.DWG 8:JunE2016-11:02 AM Cmvers



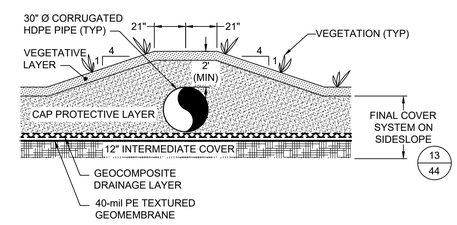
21/45 DETAIL (TYPICAL)
30" DOWNCHUTE AT CREST
SCALE: 1" = 2'
XREF: FL2786X3007



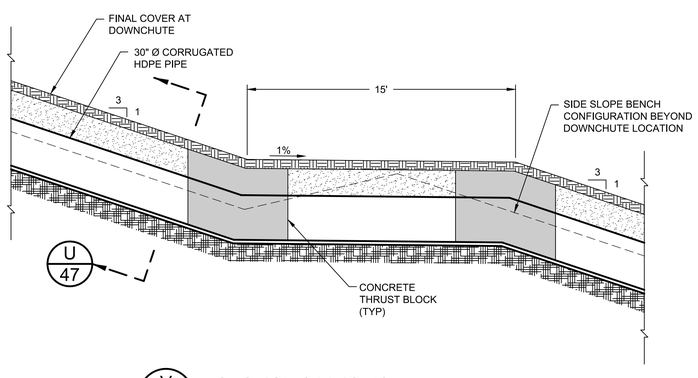
19/45 PLAN (TYPICAL)
30" DOWNCHUTE PIPE AT SIDE SLOPE BENCH
SCALE: 1" = 4'



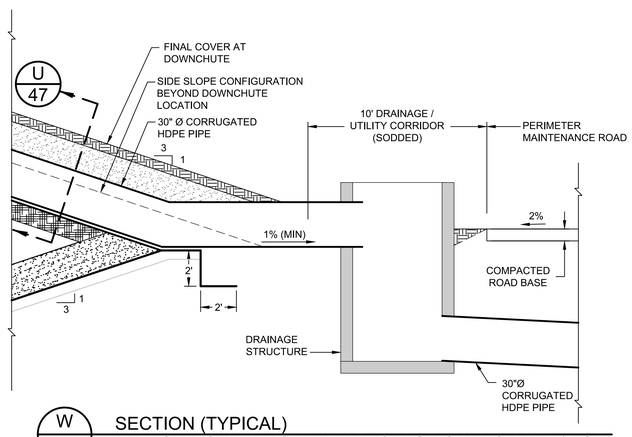
20/45 PLAN (TYPICAL)
30" DOWNCHUTE PIPE AT DRAINAGE STRUCTURE / TOE
SCALE: 1" = 4'
XREF: FL1868,03P390



U/47 SECTION (TYPICAL)
FINAL COVER CONFIGURATION AT 30" DOWNCHUTE LOCATIONS
SCALE: 1" = 4'
XREF: FL2786X3009



V/47 SECTION (TYPICAL)
30" DOWNCHUTE PIPE AT SIDE SLOPE BENCH
SCALE: 1" = 4'
XREF: FL1868,03P390



W/47 SECTION (TYPICAL)
30" DOWNCHUTE PIPE AT DRAINAGE STRUCTURE / TOE
SCALE: 1" = 4'
XREF: FL1868,03P390

REV	DATE	DESCRIPTION	DRN	APP
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TITLE: STORM WATER MANAGEMENT DETAILS II

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

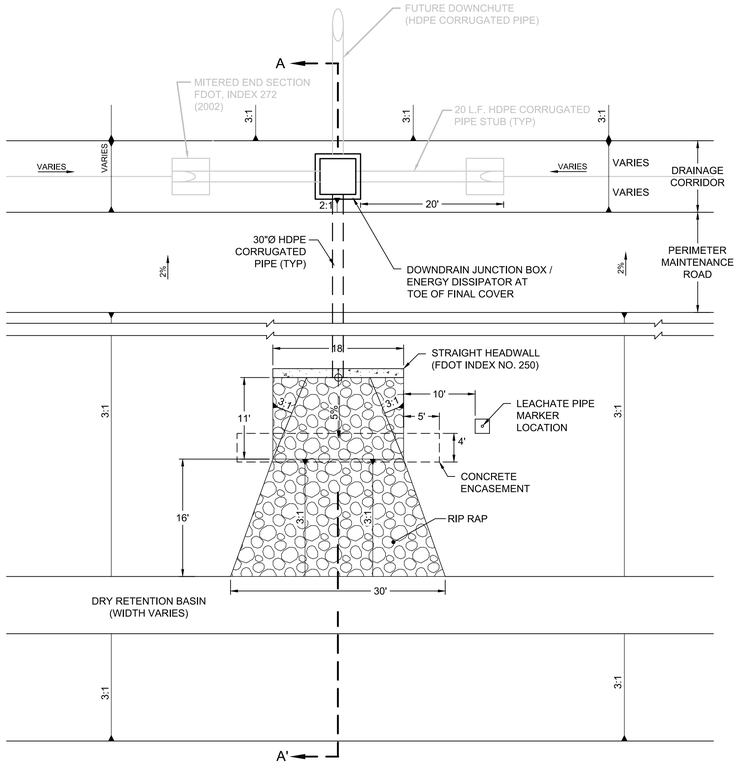
SIGNATURE
6/15/2016
DATE
CRAIG BROWNE - LICENSE NO. 68613

CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

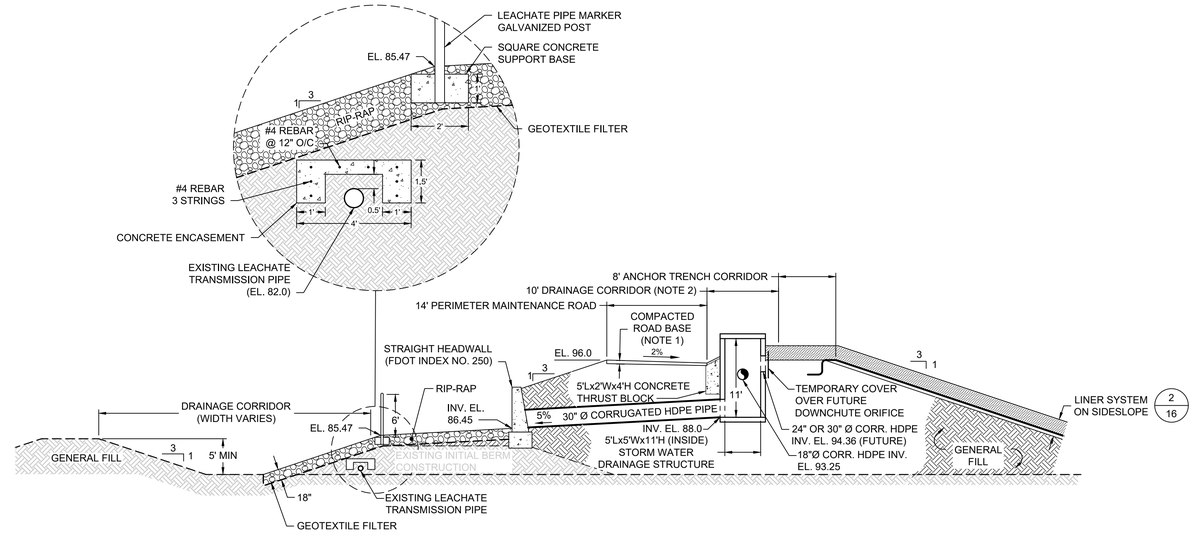
DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P47
REVIEWED BY:	KBT	DRAWING NO.:	47 OF 48
APPROVED BY:	CRB		

PERMIT DRAWING

FL_CVCD:\PROJECTS\JED LANDFILL\PERMIT\PHASES 1-5 RENEWAL PERMIT DRAWINGS\FL2786\DWGS\FL2786X3009.DWG Jun 2016 - 11:03 AM CMVbaas



PLAN VIEW

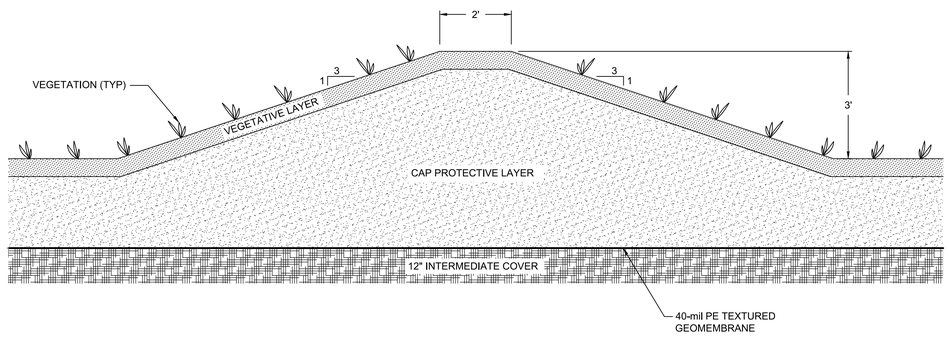


SECTION A-A'

NOTES:

1. COMPACTED ROAD BASE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS TO A TOTAL THICKNESS OF 10 INCHES.
2. DRAINAGE CORRIDOR ON PERIMETER BERM SHALL BE GRADED TO UNIFORMLY DRAIN FROM THE CELL SUMP TO THE DRAINAGE STRUCTURES. SWALE SHALL HAVE MINIMUM DEPTH OF 6 INCHES.

22/45 DETAIL (TYPICAL)
STORM WATER DRAINAGE OUTLET STRUCTURE
SCALE: 1" = 10'
XREF: FL2786X3008



23/45 DETAIL (TYPICAL)
TOP AREA BERM
SCALE: 1" = 2'
XREF: FL2786X3008

PERMIT DRAWING

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TITLE: STORM WATER DRAINAGE STRUCTURE DETAILS

PROJECT: PHASES 1-5 RENEWAL PERMIT DRAWINGS

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

SIGNATURE
6/15/2016
DATE
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CRAIG R. BROWNE LICENSE No. 68613 STATE OF FLORIDA PROFESSIONAL ENGINEER

DESIGN BY:	CRB	DATE:	JUNE 2016
DRAWN BY:	CMV	PROJECT NO.:	FL2786.01
CHECKED BY:	AR	FILE:	FL2786.01P48
REVIEWED BY:	KBT	DRAWING NO.:	48 OF 48
APPROVED BY:	CRB		

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