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FDEP DATE-STAMPED RECEIVED PAGE



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NOV 19 2012
DEP Central District

TRANSMITTAL LETTER

Date: November 16, 2012

TO: FDEP
Waste Management Division – Solid Waste
3319 Maguire Blvd, Suite 232
Orlando, Florida 32803-3767

Attention: Kim Rush, PE

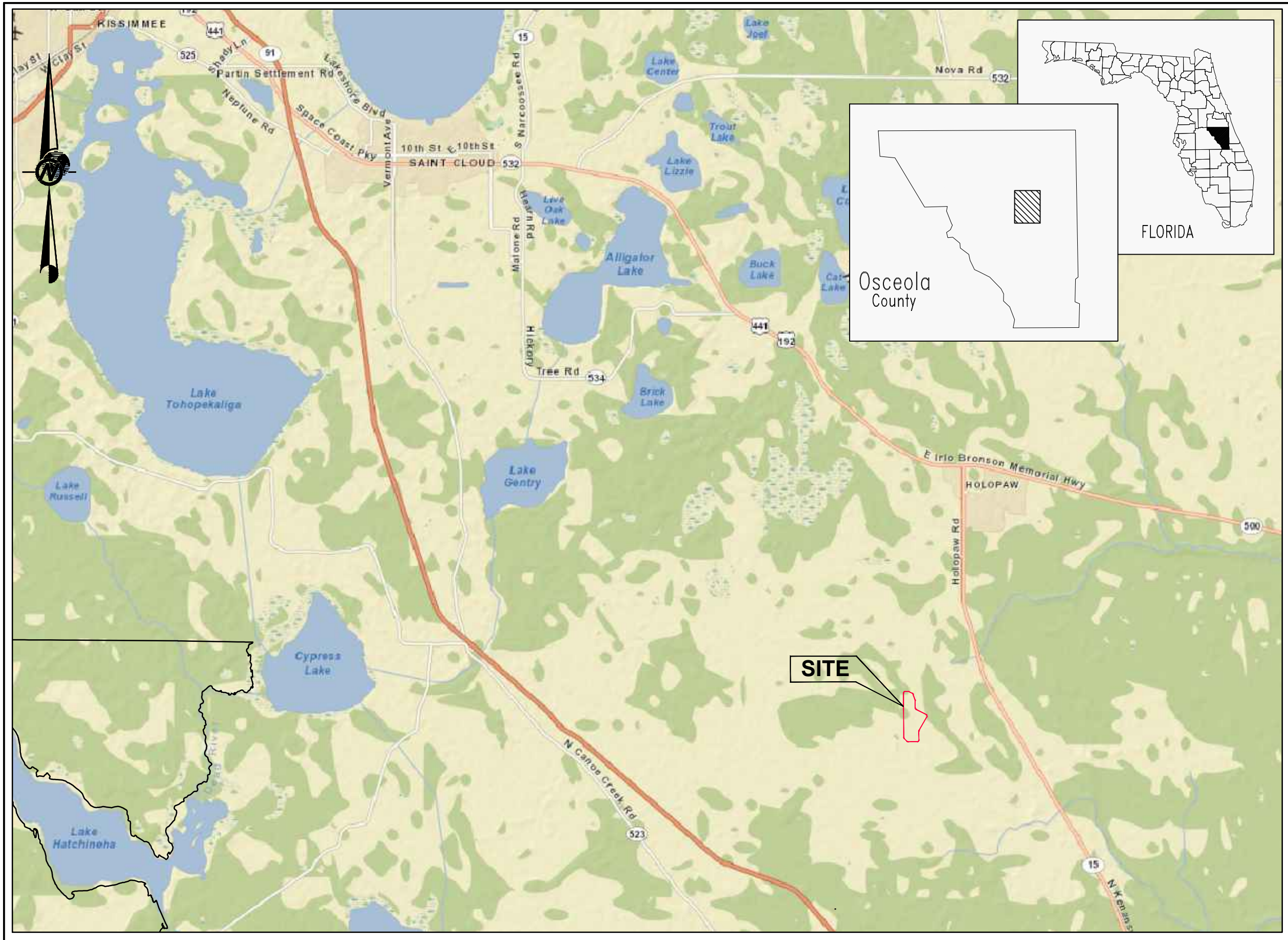
SENT VIA: Fedex

QUANTITY	ITEM	DESCRIPTION
1	Disc	Construction Drawings, J.E.D. Solid Waste Management Facility – St. Cloud, Florida
REMARKS: Ms. Rush, Mr. Mike Kaiser asked me to forward you these drawings. Please find one disc with an electronic set of construction drawings for the Phase III Landfill Gas Collection and Control System at the J.E.D. Solid Waste Management Facility. The drawings were generated in general accordance with the permit level drawings for the facility. If you have any questions, please contact me at 904-363-3430. Thanks, Don E. Grigg		

IN OCULUS

J.E.D. SOLID WASTE MANAGEMENT FACILITY GAS COLLECTION AND CONTROL SYSTEM (GCCS) PHASE III DISPOSAL AREA

ST. CLOUD, OSCEOLA COUNTY, FLORIDA



SITE LOCATION MAP

LIST OF DRAWINGS		
SHEET	TITLE	REVISION
1	TITLE SHEET	
2	TOPOGRAPHIC MAP	
3	PLAN LAYOUT OF GCCS IN PHASE 3 (CELLS 8 THROUGH 10)	
4	PLAN LAYOUT OF GCCS IN PHASE 3 (SEQUENCE 1)	
5	PLAN LAYOUT OF GCCS IN PHASE 3 (SEQUENCE 2)	
6	PLAN LAYOUT OF GCCS IN PHASE 3 (SEQUENCE 3)	
7	GAS SYSTEM CONTROL POINTS	
8	VERTICAL GAS EXTRACTION WELL DETAILS	
9	GCCS DETAILS (1 OF 2)	
10	GCCS DETAILS (2 OF 2)	
11	HORIZONTAL GAS COLLECTOR DETAILS	
12	HORIZONTAL GAS COLLECTOR CROSS SECTIONS	

Prepared for:



OMNI WASTE OF OSCEOLA
COUNTY, LLC
1501 OMNI WAY
ST. CLOUD, FLORIDA 34773
TEL: 407-891-3720 FAX: 407-891-3730

Prepared by:



September 2012

J.E.D. SOLID WASTE MANAGEMENT FACILITY
OSCEOLA COUNTY
FLORIDA

TITLE SHEET/LIST OF DRAWINGS

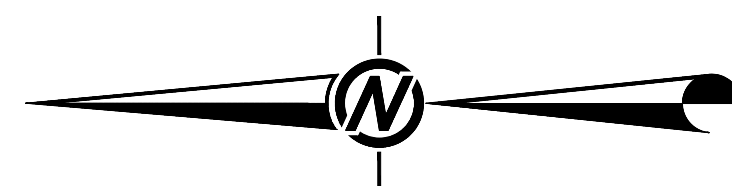
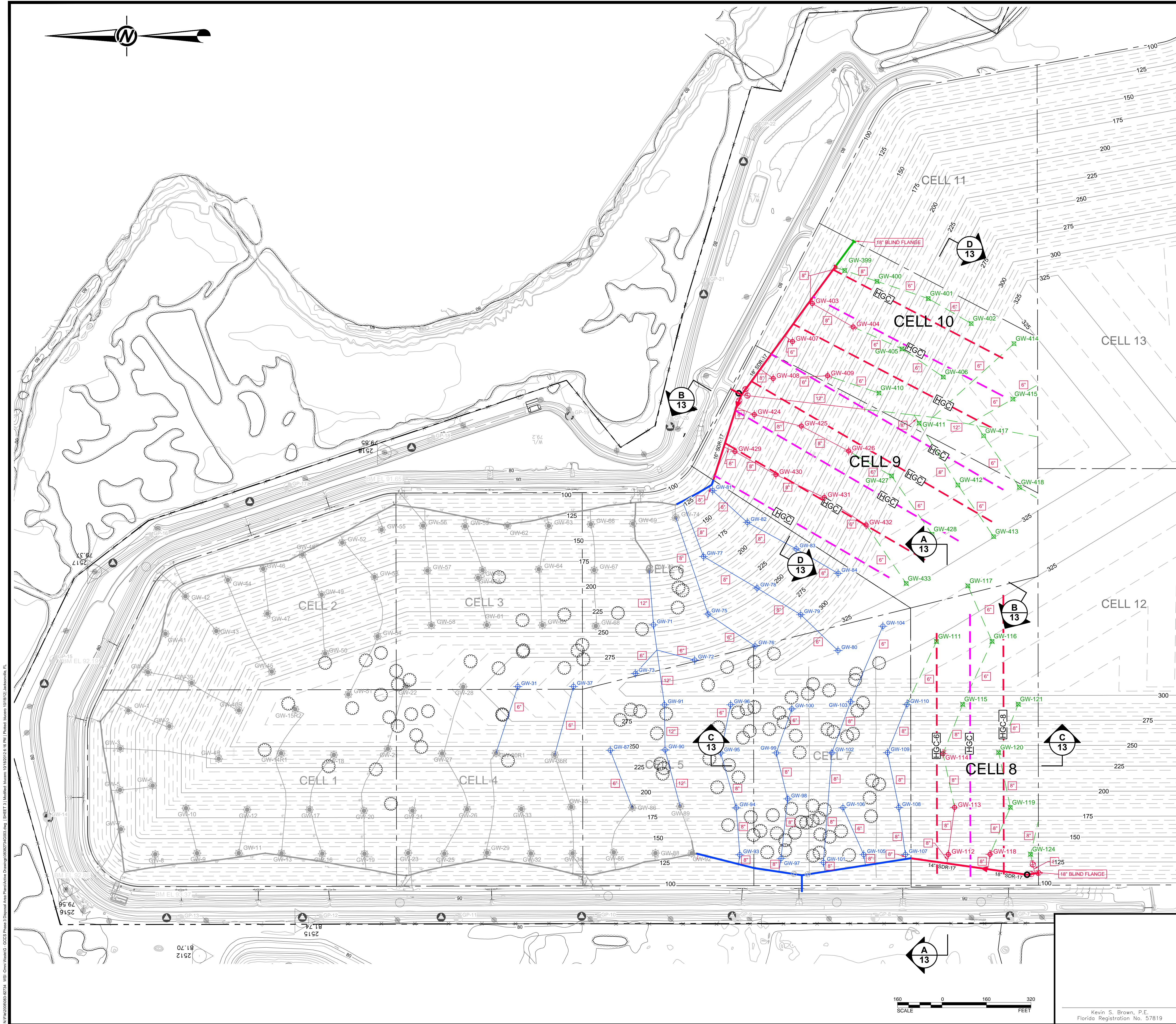


9428 Baymeadows Way, Suite 400
Jacksonville, Florida 32256
Tel: 904/363-3430 Fax: 904/363-3445
COA No. 1670

Kevin S. Brown, P.E.
Florida Registration No. 57819

SHEET 1





LEGEND

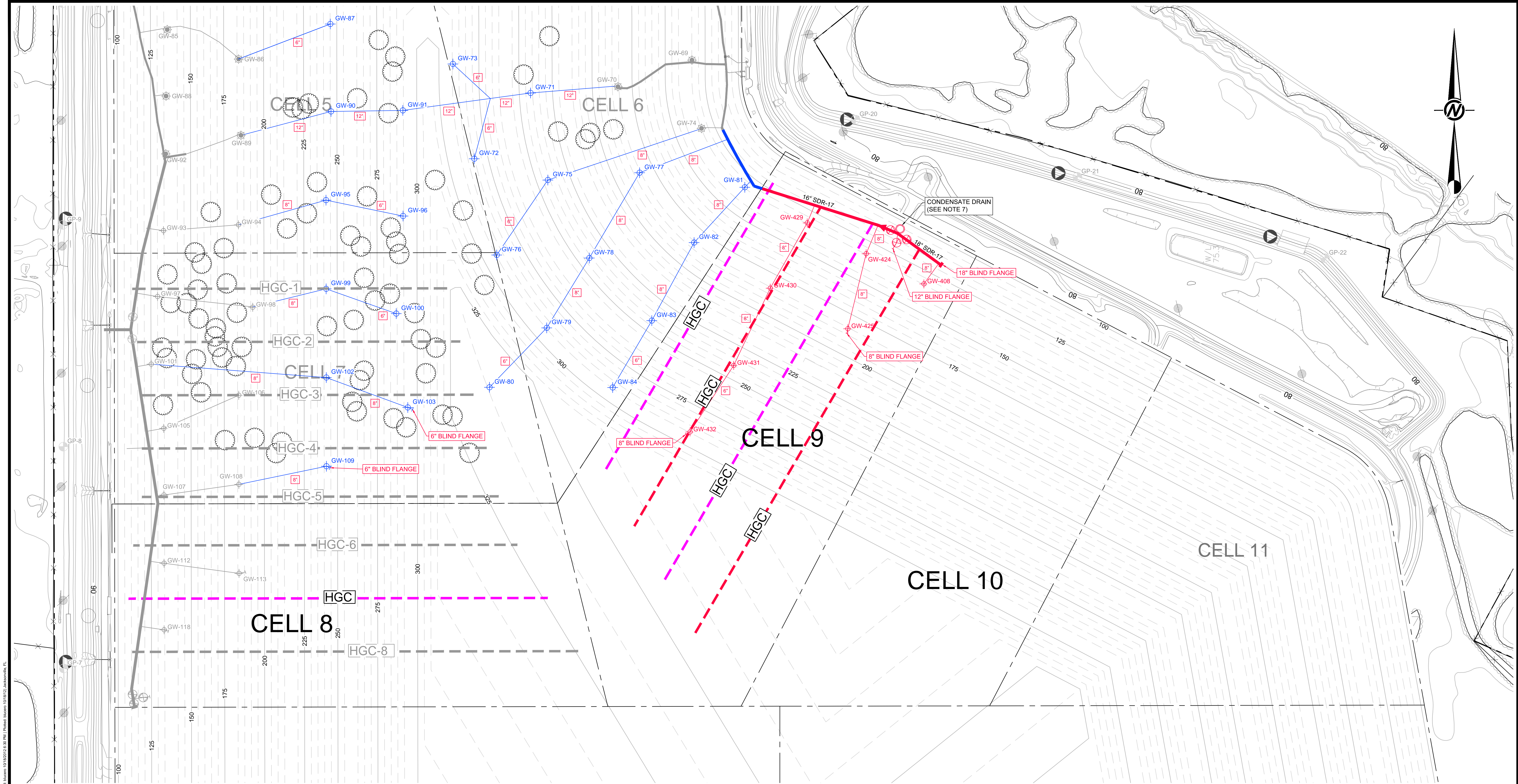
NOTES

GCCS NOTES

0						
REV	DATE	DES	REVISION DESCRIPTION			CADD

TITLE	PLAN LAYOUT OF GCCS IN PHASE 3 (CELLS 8 THROUGH 10)
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PROJECT No. 083-82734.22			FILE No. 08382734G	
DESIGN	DEG	05/18/12	SCALE	AS SHOWN
CADD	BCL	05/18/12	<div style="text-align: center; font-size: 2em; font-weight: bold;">SHEET 3</div>	
CHECK	-	-		
REVIEW	-	-		



LEGEND

	PROPERTY BOUNDARY		INTERCELL BERM LOCATION
	APPROXIMATE LOCATION OF INTERMITTENT STREAM		APPROXIMATE LIMITS OF ASBESTOS (SEE GCCS NOTE 1)
	EXISTING GROUND ELEVATION (FEET)		CONDENSATE DRAIN AT LOW POINT
	EXISTING FENCE		ISOLATION VALVE
	FINAL COVER ELEVATION (FEET)		CONDENSATE KNOCKOUT POT
	EXISTING GAS MONITORING PROBE		PROPOSED UPPER TIER HGC (10" SDR-11)
	EXISTING VERTICAL GAS EXTRACTION WELL		PROPOSED LOWER TIER HGC (10" SDR-11)
	EXISTING HDPE HEADER PIPE		EXISTING LOWER & UPPER HGC
	EXISTING HDPE LATERAL PIPE		LATERAL PIPE SIZE
	PROPOSED VERTICAL GAS EXTRACTION WELL (CURRENT SEQUENCE)		EXISTING VERTICAL GAS EXTRACTION WELL (PREVIOUS SEQUENCE)
	PROPOSED HDPE HEADER PIPE (CURRENT SEQUENCE)		PREVIOUS PHASE PROPOSED VERTICAL GAS EXTRACTION WELL
	PROPOSED HDPE LATERAL PIPE (CURRENT SEQUENCE)		PREVIOUS PHASE PROPOSED HDPE LATERAL PIPE
	REDUCER		PREVIOUS PHASE PROPOSED HDPE HEADER PIPE
	BLIND FLANGE (DIAMETER VARIES)		PREVIOUS PHASE UPPER TIER HGC (10" SDR-11)

GCCS NOTES

- APPROXIMATE LIMITS OF ASBESTOS SHOWN WERE BASED ON GRID AND GPS TRACKING BY SITE OPERATIONS. THE LIMITS OF ASBESTOS WERE ASSUMED TO BE WITHIN 20-FT RADIUS OF THE COORDINATES PROVIDED BY OMNI. CONTRACTOR SHALL MARK THE INDICATED AREAS IN FIELD TO PREVENT INSTALLATION OF GAS EXTRACTION WELLS IN AREAS WHERE ASBESTOS WAS DISPOSED.
- LATERAL PIPES SHALL BE 4", 6" OR 8" DIA. SDR-17 HDPE PIPES AS SHOWN ON THIS SHEET.
- GRADES INDICATED ON THIS SHEET WITHIN THE LANDFILL ARE TOP OF FINAL COVER SYSTEM GRADES.
- A 15-FT WIDE BENCH WILL BE PROVIDED ON THE SIDE SLOPE OF THE LANDFILL EVERY 40 VERTICAL FEET. GAS EXTRACTION WELLS ADJACENT TO THESE BENCHES SHALL BE OFFSET FROM THE EDGE OF THE BENCH AS INDICATED ON SHEET 10.
- THE BOTTOM LINER SYSTEM IS AT A RELATIVELY HIGHER ELEVATION ADJACENT TO THE INTERCELL BERMS. CONTRACTOR SHALL PROVIDE ADDITIONAL ATTENTION DURING INSTALLATION OF GAS EXTRACTION WELLS ADJACENT TO THE INTERCELL BERMS.
- A HEADER ACCESS RISER SHALL BE PROVIDED AT EACH HIGH POINT ALONG HEADER (I.E., AT EACH HPH) AS NOTED ON SHEET 11.
- A CONDENSATE DRAIN SHALL BE PROVIDED AT EACH LOW POINT ALONG HEADER (I.E., AT EACH LPH).
- ALL PIPING WITHIN THE LIMITS OF WASTE TO BE INSTALLED WITH A MINIMUM OF 5% SLOPE.
- PROPOSED GCCS COMPONENTS BASED UPON BULLSEYE DESIGN SERVICES, INC., DWG # 5.
- THE EXACT LOCATIONS AND NUMBERING OF GCCS FEATURES MAY VARY DEPENDING ON ACTUAL FIELD CONDITIONS AT THE TIME OF INSTALLATION.
- EXCESS EXCAVATED WASTE (INCLUDING DRILL CUTTINGS) WILL BE HAULED TO THE ACTIVE WORKING FACE FOR DISPOSAL. SHOULD WASTE BE UTILIZED AS BACKFILL, DAILY COVER WILL BE UTILIZED IN ACCORDANCE WITH PERMIT AND REGULATORY REQUIREMENTS.

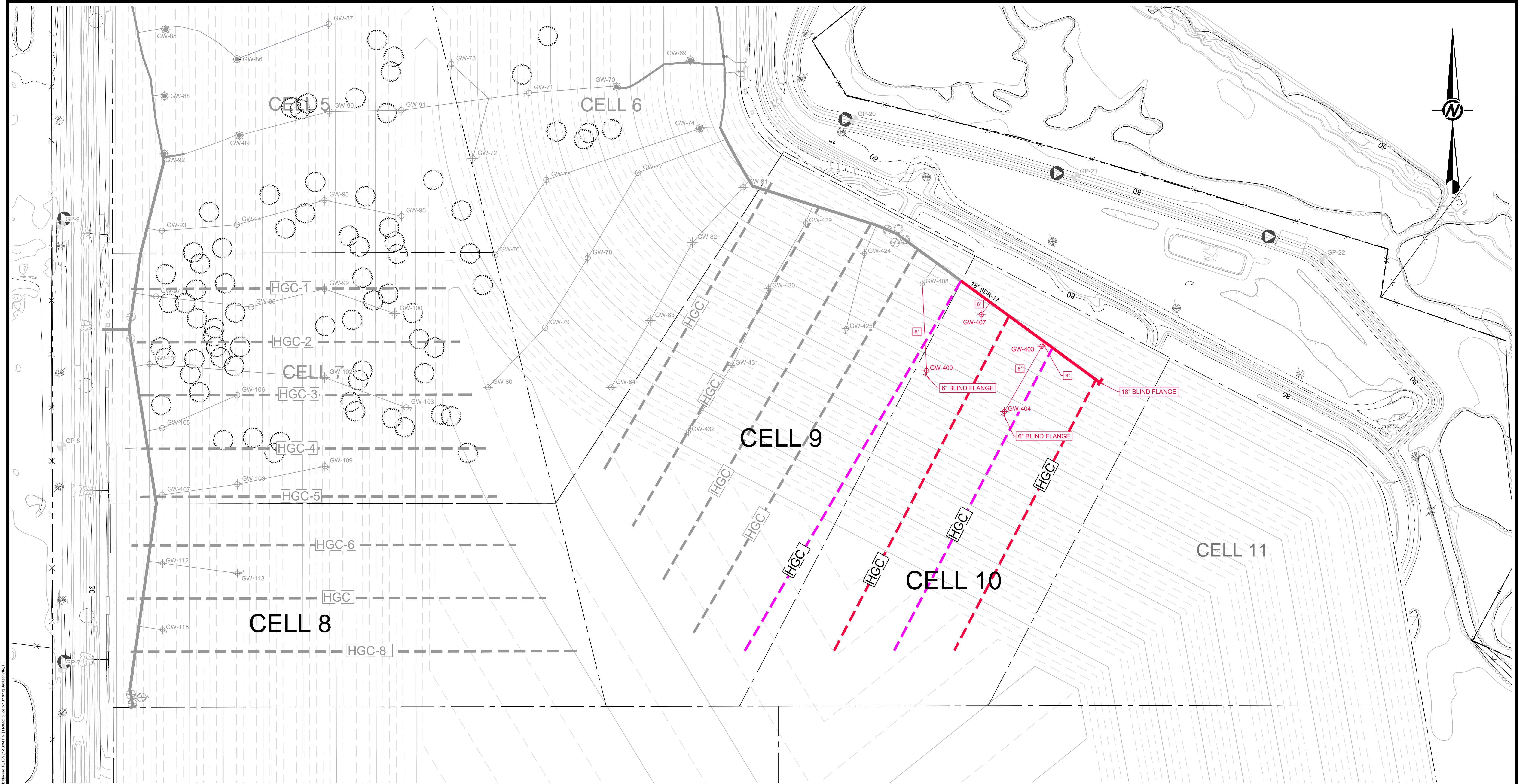
NOTES

- 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).
- THE PROPERTY BOUNDARY BASED ON A COMPOSITE BOUNDARY SURVEY PROVIDED BY JOHNSTON SURVEYING INC., KISSIMMEE FLORIDA, DATED AUGUST 12, 1999.
- TOPOGRAPHIC INFORMATION SHOWN ON THIS DRAWING WAS PROVIDED BY BASE MAPPING CO. LTD BASED ON AN AERIAL PHOTOGRAPH TAKEN ON 18 MAY 2012.
- THE TOPOGRAPHIC INFORMATION PROVIDED DOES NOT NECESSARILY REPRESENT CURRENT CONDITIONS. THE CONTRACTOR SHALL UNDERSTAND CURRENT CONDITIONS BASED ON FIELD RECONNAISSANCE AND/OR ADDITIONAL TOPOGRAPHIC SURVEYS AT THEIR EXPENSE.



Kevin S. Brown, P.E.
Florida Registration No. 57819

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
PROJECT						
J.E.D. SOLID WASTE MANAGEMENT FACILITY ST. CLOUD, OSCEOLA COUNTY, FLORIDA						
TITLE						
PLAN LAYOUT OF GCCS IN PHASE 3 (SEQUENCE 2)						
PROJECT No.			083-82734.22		FILE No.	
DESIGN			DEG		05/18/12	
CADD			BCL		05/18/12	
CHECK						
REVIEW						
9428 Baymeadows Way, Suite 400 Jacksonville, Florida 32256 Tel: 904/363-3430 Fax: 904/363-3445 COA No. 1670			SCALE		AS SHOWN	
					SHEET 5	



LEGEND

	PROPERTY BOUNDARY		INTERCELL BERM LOCATION
	APPROXIMATE LOCATION OF INTERMITTENT STREAM		APPROXIMATE LIMITS OF ASBESTOS (SEE GCCS NOTE 1)
	EXISTING GROUND ELEVATION (FEET)		CONDENSATE DRAIN AT LOW POINT
	EXISTING FENCE		ISOLATION VALVE
	FINAL COVER ELEVATION (FEET)		CONDENSATE KNOCKOUT POT
	GP-18 EXISTING GAS MONITORING PROBE		PROPOSED UPPER TIER HGC (10" SDR-11)
	GW-35 EXISTING VERTICAL GAS EXTRACTION WELL		PROPOSED LOWER TIER HGC (10" SDR-11)
	EXISTING HDPE HEADER PIPE		EXISTING LOWER & UPPER HGC
	EXISTING HDPE LATERAL PIPE		EXISTING LOWER & UPPER HGC
	PROPOSED VERTICAL GAS EXTRACTION WELL (CURRENT SEQUENCE)		LATERAL PIPE SIZE
	PROPOSED HDPE HEADER PIPE (CURRENT SEQUENCE)		EXISTING VERTICAL GAS EXTRACTION WELL (PREVIOUS SEQUENCE)
	PROPOSED HDPE LATERAL PIPE (CURRENT SEQUENCE)		PREVIOUS PHASE PROPOSED VERTICAL GAS EXTRACTION WELL
	BLIND FLANGE (DIAMETER VARIES)		PREVIOUS PHASE PROPOSED HDPE LATERAL PIPE
			PREVIOUS PHASE PROPOSED HDPE HEADER PIPE
			PREVIOUS PHASE UPPER TIER HGC (10" SDR-11)

GCCS NOTES

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- PROPOSED GCCS COMPONENTS BASED UPON BULLSEYE DESIGN SERVICES, INC., DWG # 6.
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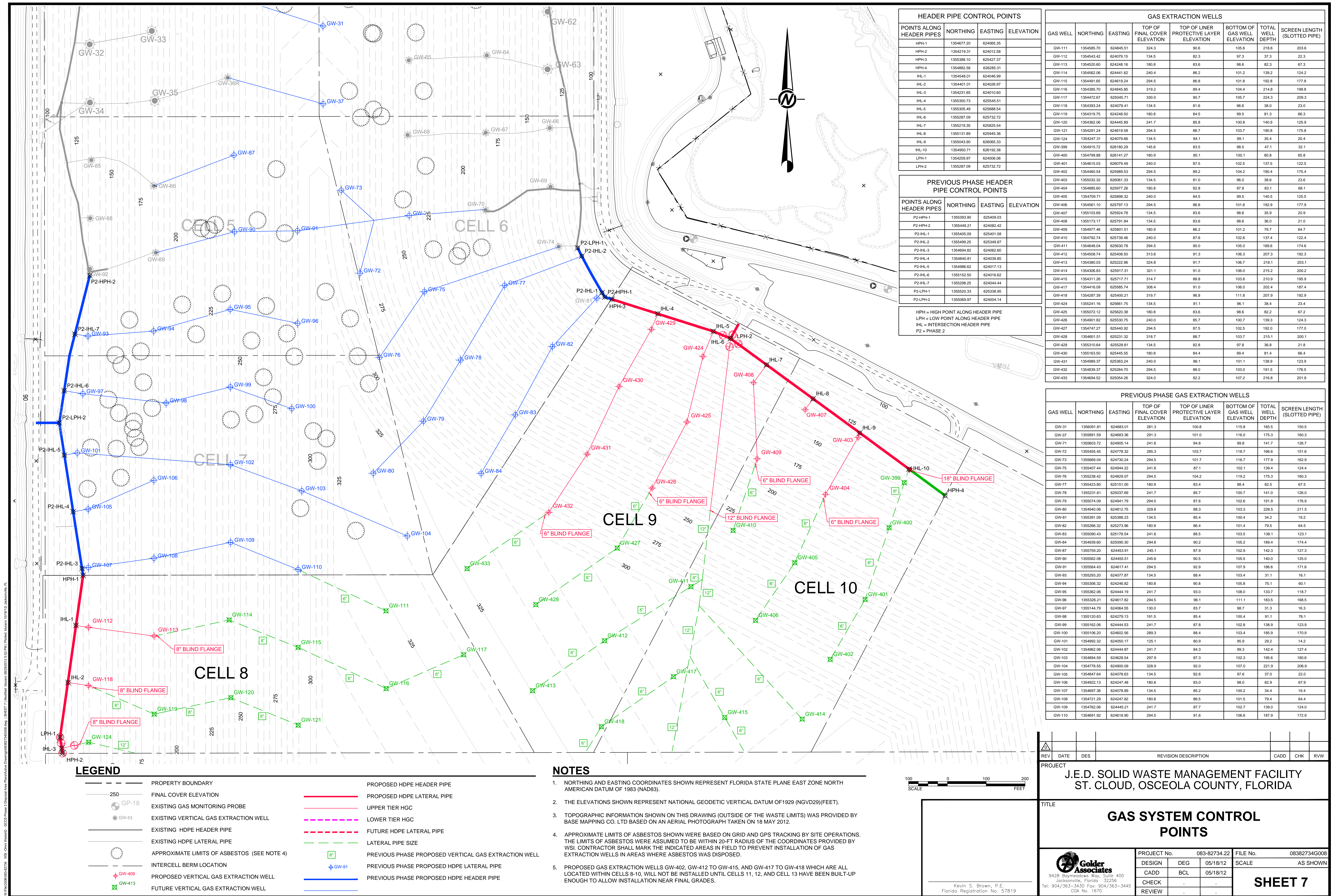
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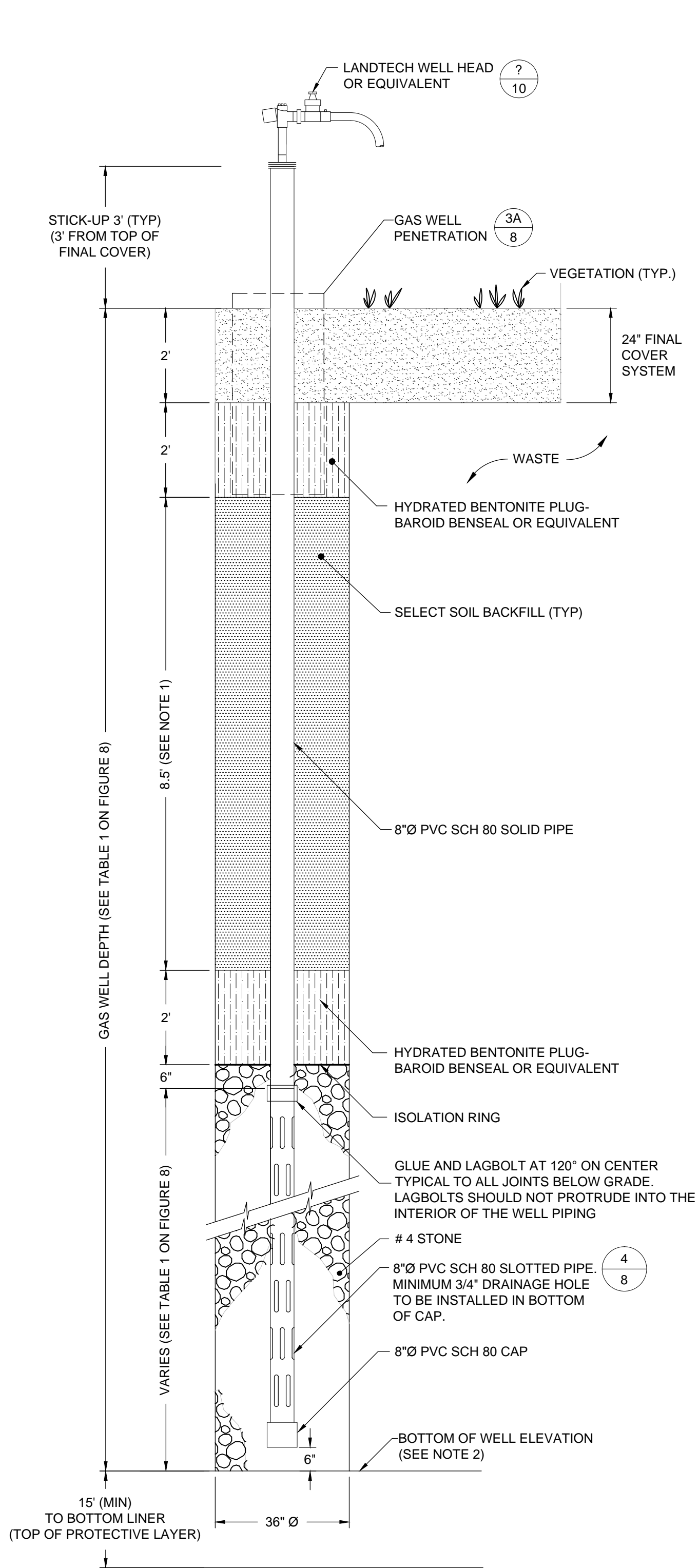


Kevin S. Brown, P.E.
Florida Registration No. 57819

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
PROJECT						
J.E.D. SOLID WASTE MANAGEMENT FACILITY ST. CLOUD, OSCEOLA COUNTY, FLORIDA						
TITLE						
PLAN LAYOUT OF GCCS IN PHASE 3 (SEQUENCE 3)						
PROJECT No.			083-82734.22		FILE No.	
DESIGN			DEG		05/18/12	
CADD			BCL		05/18/12	
CHECK						
REVIEW						
9428 Baymeadows Way, Suite 400 Jacksonville, Florida 32256 Tel: 904/363-3430 Fax: 904/363-3445 COA No. 1670			SCALE		AS SHOWN	
					SHEET 6	



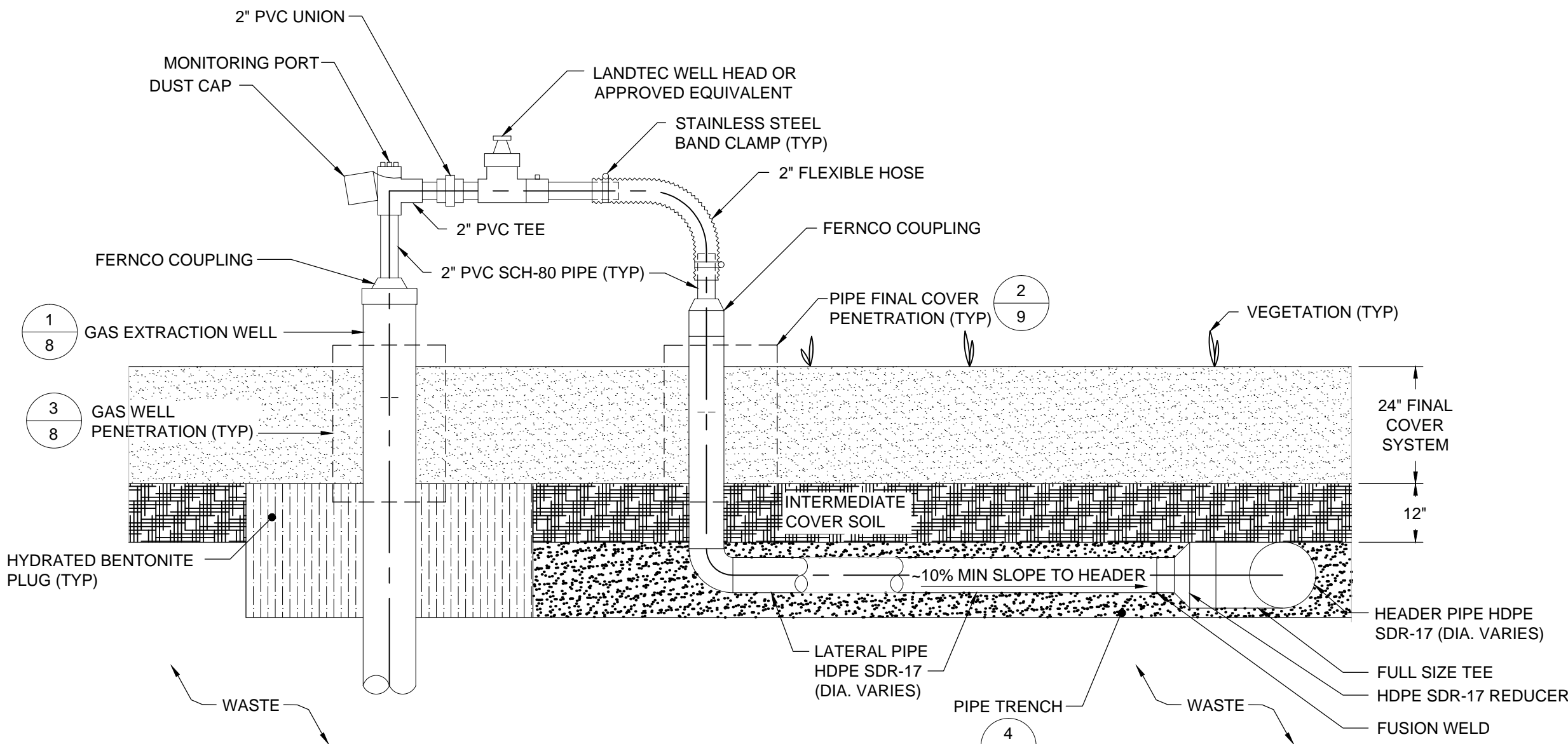
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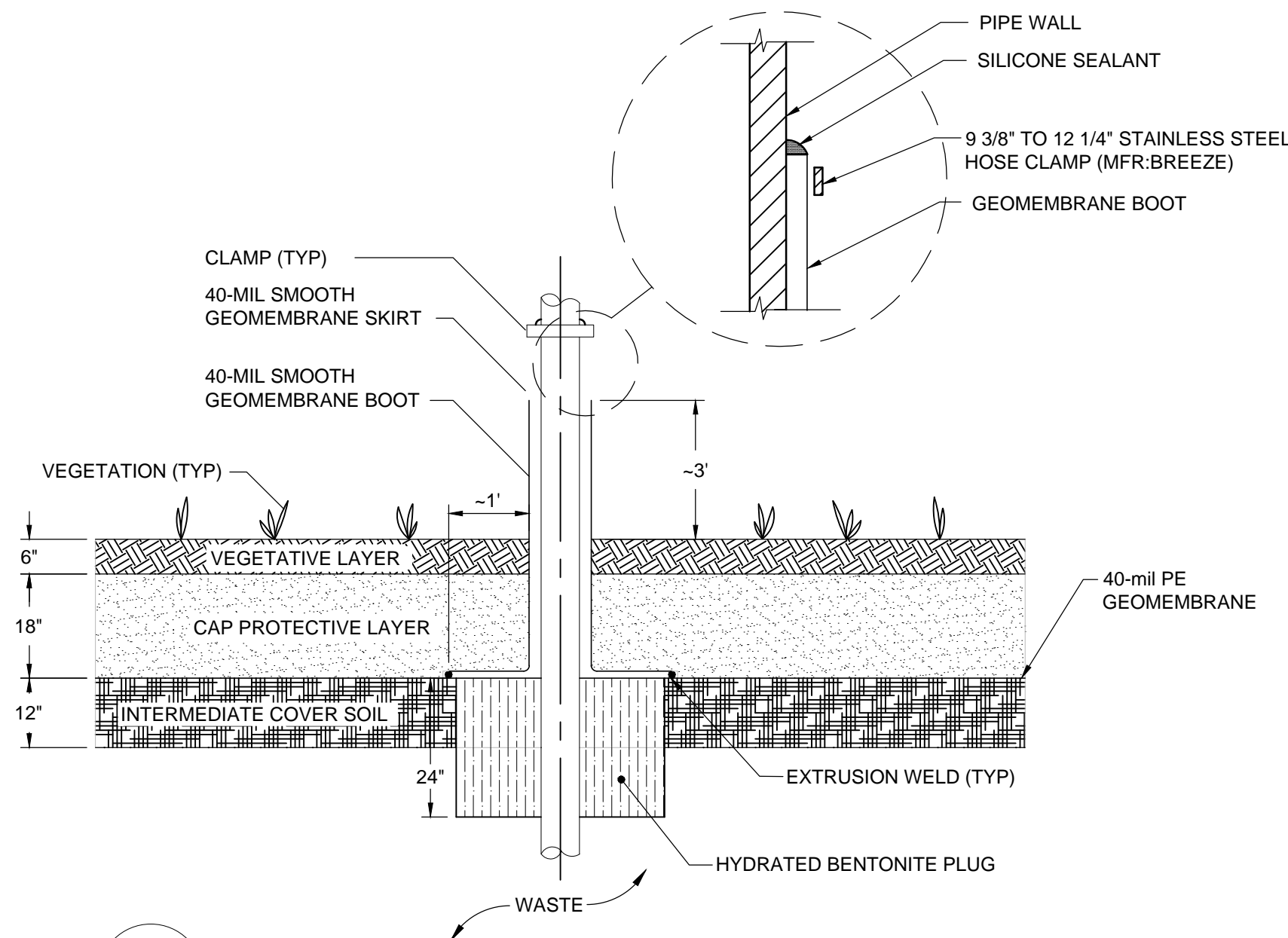
1
8 **DETAIL**
GAS EXTRACTION WELL
SCALE: N.T.S.
XREF: FL1462.03X021

NOTES:

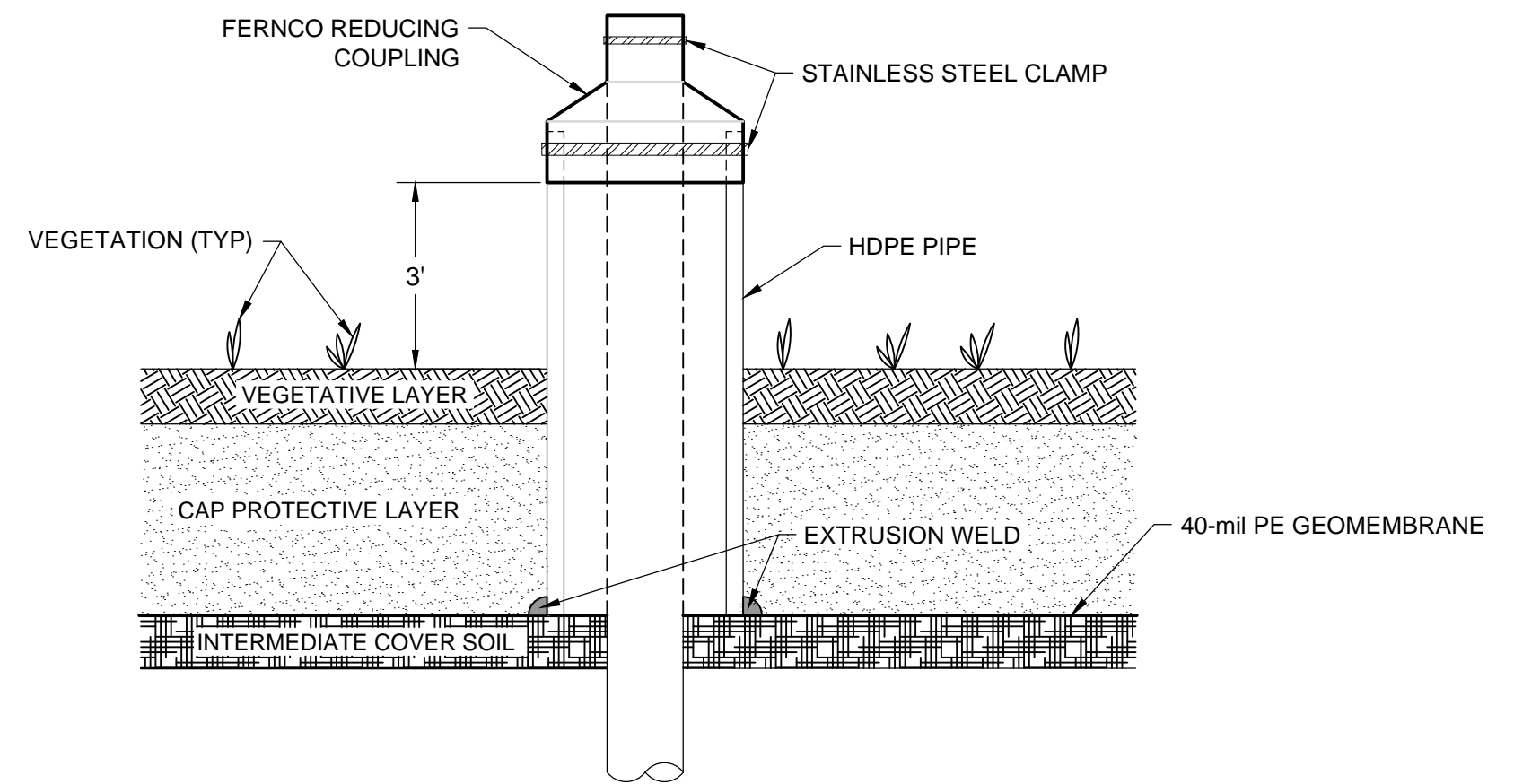
- THE LENGTH OF SOLID PIPE EXTENDING BELOW THE FINAL COVER GEOMEMBRANE SHALL BE NO LESS THAN 13 FEET.
- BOTTOM ELEVATION OF ALL GAS EXTRACTION WELLS SHALL BE MINIMUM 15' FROM THE BOTTOM LINER (TOP OF PROTECTIVE COVER LAYER).



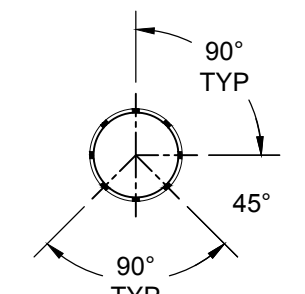
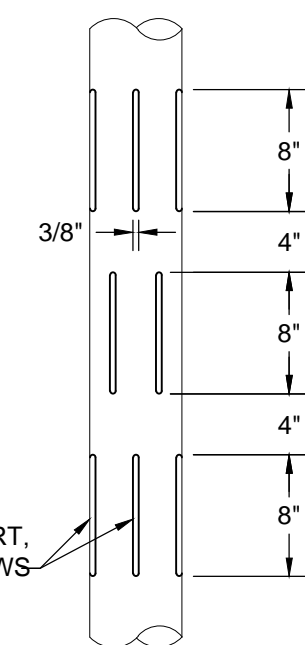
2
8 **DETAIL**
WELLHEAD TO LATERAL
SCALE: N.T.S.



3
8 **DETAIL**
GAS WELL FINAL COVER PENETRATION
SCALE: N.T.S.
XREF: FL1832B.01X022



3A
8 **DETAIL**
GAS WELL/PIPE FINAL COVER PENETRATION (OPTIONAL)
SCALE: N.T.S.

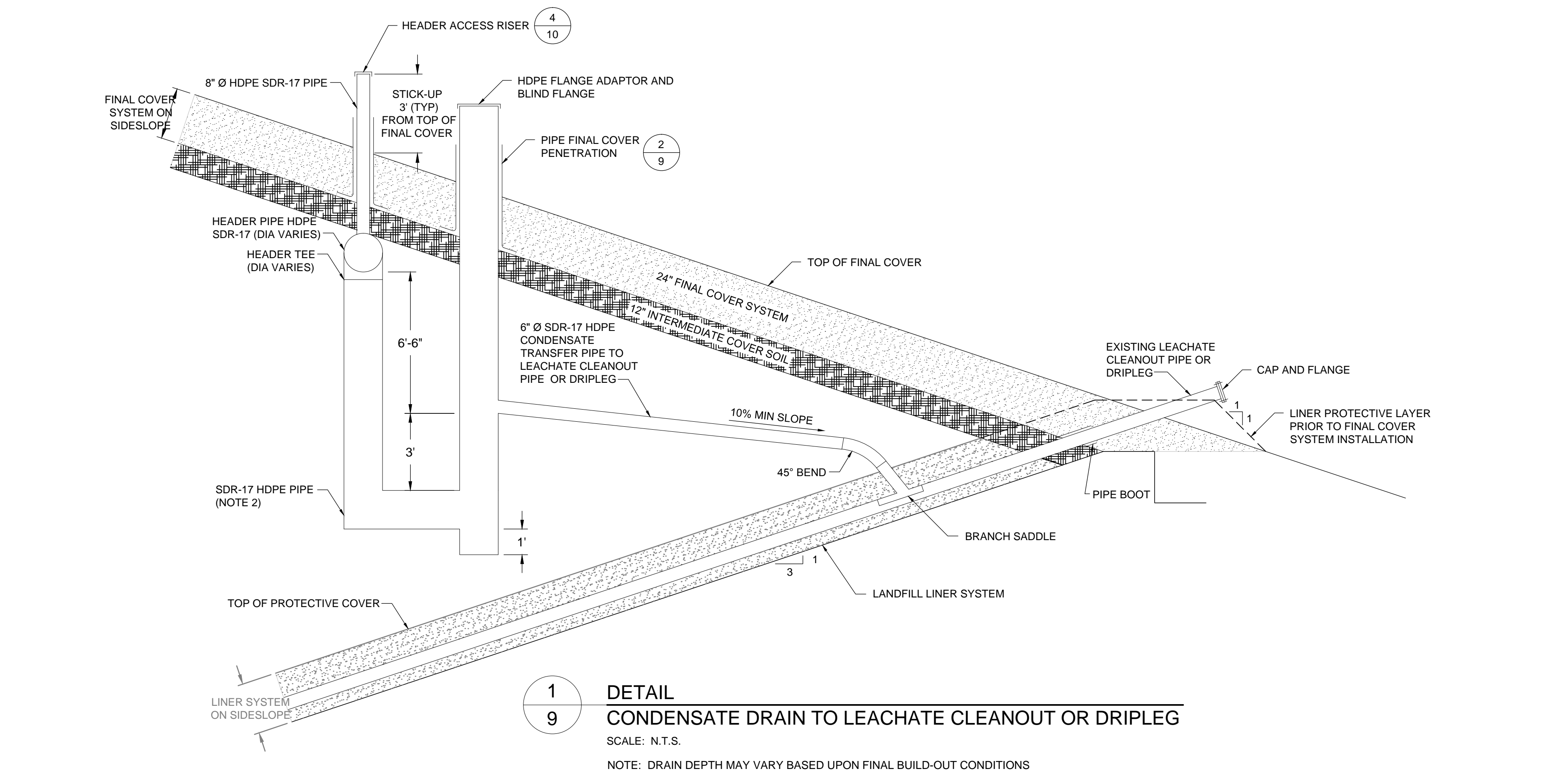


4
8 **DETAIL**
PIPE SLOTS
SCALE: N.T.S.
XREF: 1462.03X020

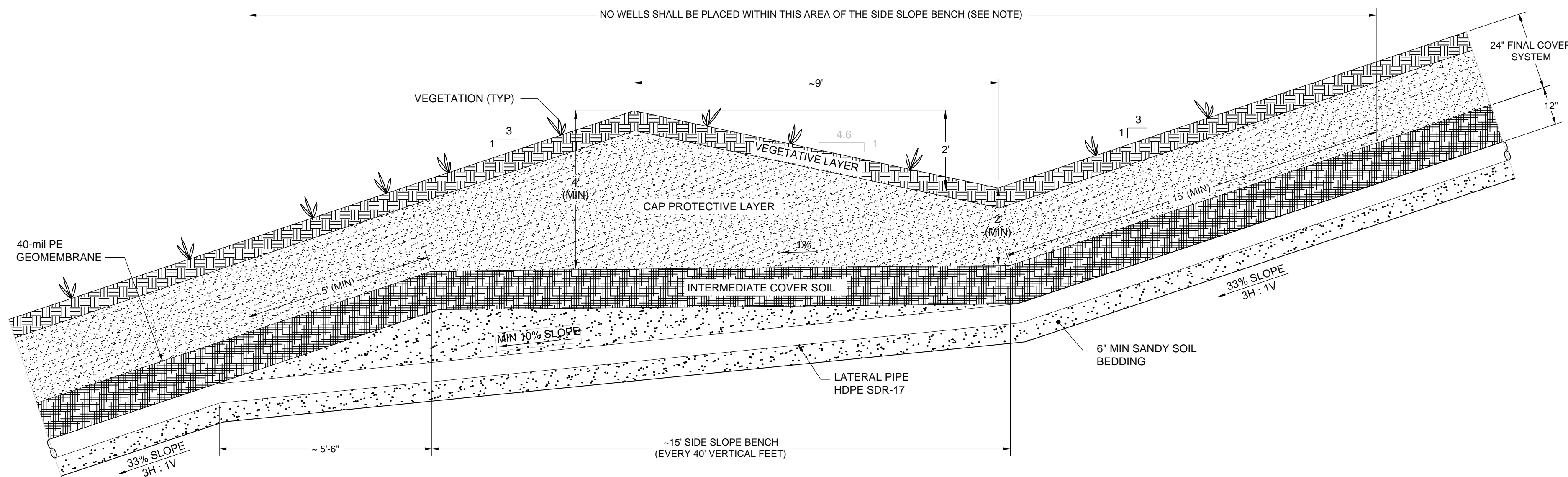
NOTES

- EXACT CONSTRUCTION DETAILS MAY VARY ACCORDING TO FIELD CONDITIONS AND MANUFACTURER SPECIFIC DETAILS WHILE KEEPING THE GENERAL CONCEPTS OF THE DETAILS PRESENTED ON THIS DRAWING.
- DETAILS 1,2,3, AND 4 BASED UPON PREVIOUS CONSTRUCTION LEVEL DRAWINGS FOR PHASES 1 AND 2 (DATED 04/10 AND 12/10 RESPECTIVELY) PREPARED BY GEOSYNTEC CONSULTANTS.

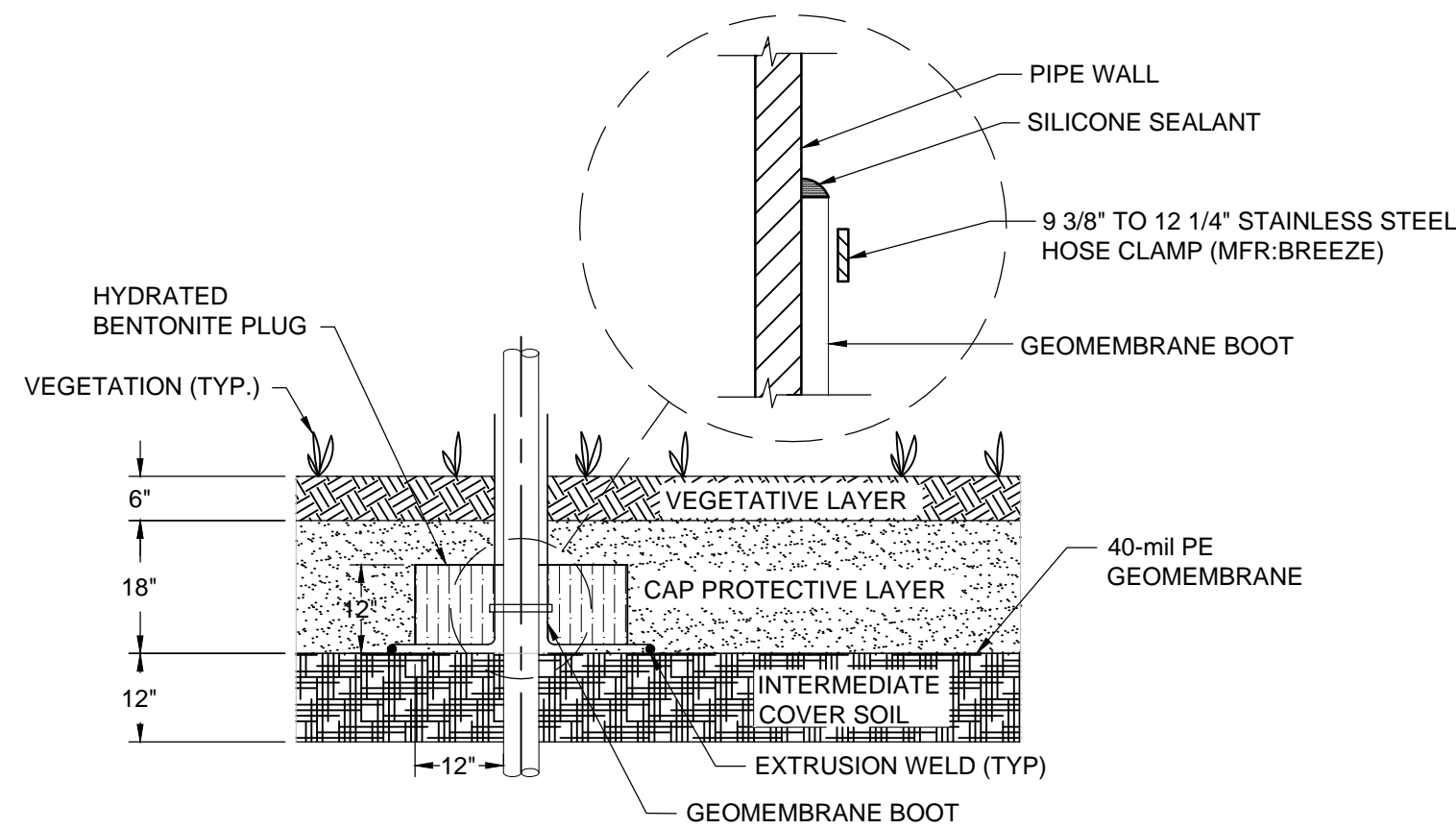
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PROJECT						
J.E.D. SOLID WASTE MANAGEMENT FACILITY ST. CLOUD, OSCEOLA COUNTY, FLORIDA						
TITLE						
VERTICAL GAS EXTRACTION WELL DETAILS						
PROJECT No.			083-82734.22		FILE No.	
DESIGN			DEG		05/18/12	
CADD			BCL		05/18/12	
CHECK						
REVIEW						
9428 Baymeadows Way, Suite 400 Jacksonville, Florida 32256 Tel: 904/363-3430 Fax: 904/363-3445 COA No. 1670			SCALE		NOT TO SCALE	
Kevin S. Brown, P.E. Florida Registration No. 57819					SHEET 8	



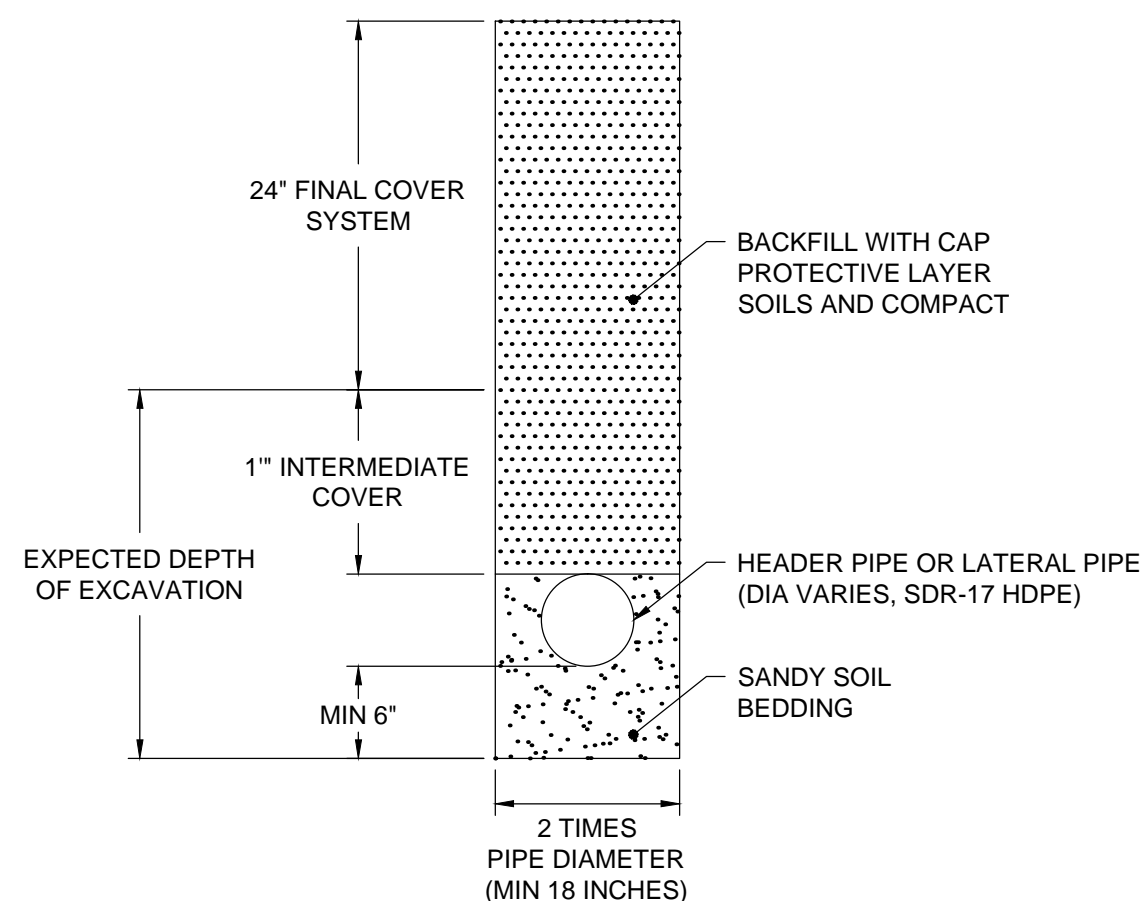
1
9 **DETAIL**
CONDENSATE DRAIN TO LEACHATE CLEANOUT OR DRILEG
SCALE: N.T.S.
NOTE: DRAIN DEPTH MAY VARY BASED UPON FINAL BUILD-OUT CONDITIONS



3
9 **DETAIL**
LATERAL PIPE TRENCH AT BENCH CROSSING
SCALE: N.T.S.



2
9 **DETAIL**
PIPE FINAL COVER PENETRATION
SCALE: N.T.S.



NOTE:
HEADER AND LATERAL PIPES SHALL TYPICALLY BE INSTALLED 3-FT BELOW THE TOP OF FINAL COVER AS INDICATED. HOWEVER, ALL PIPES SHALL BE INSTALLED AT CONSTANT SLOPE BETWEEN THE END POINTS.

4
9 **DETAIL**
PIPE TRENCH
SCALE: N.T.S.

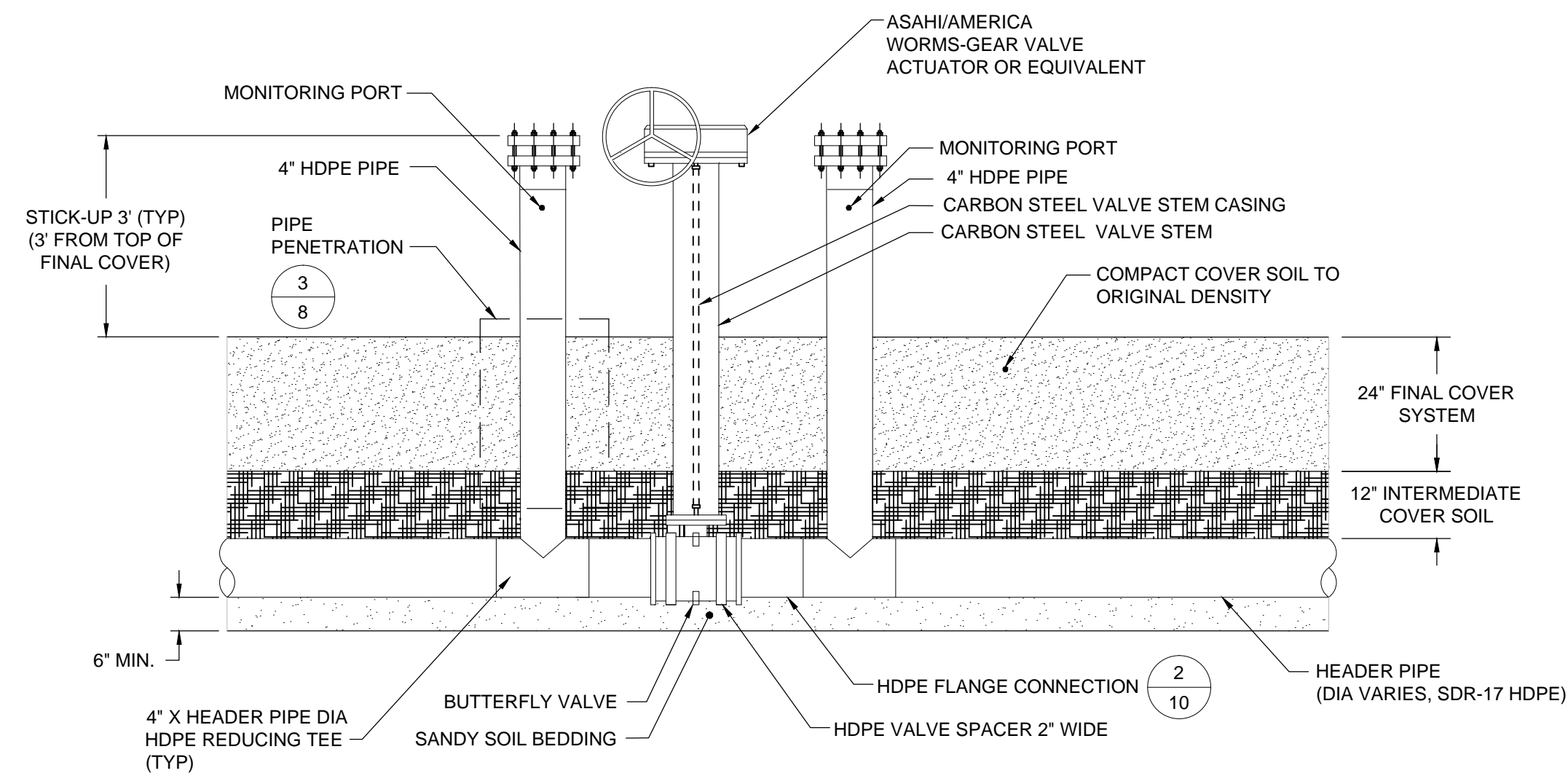
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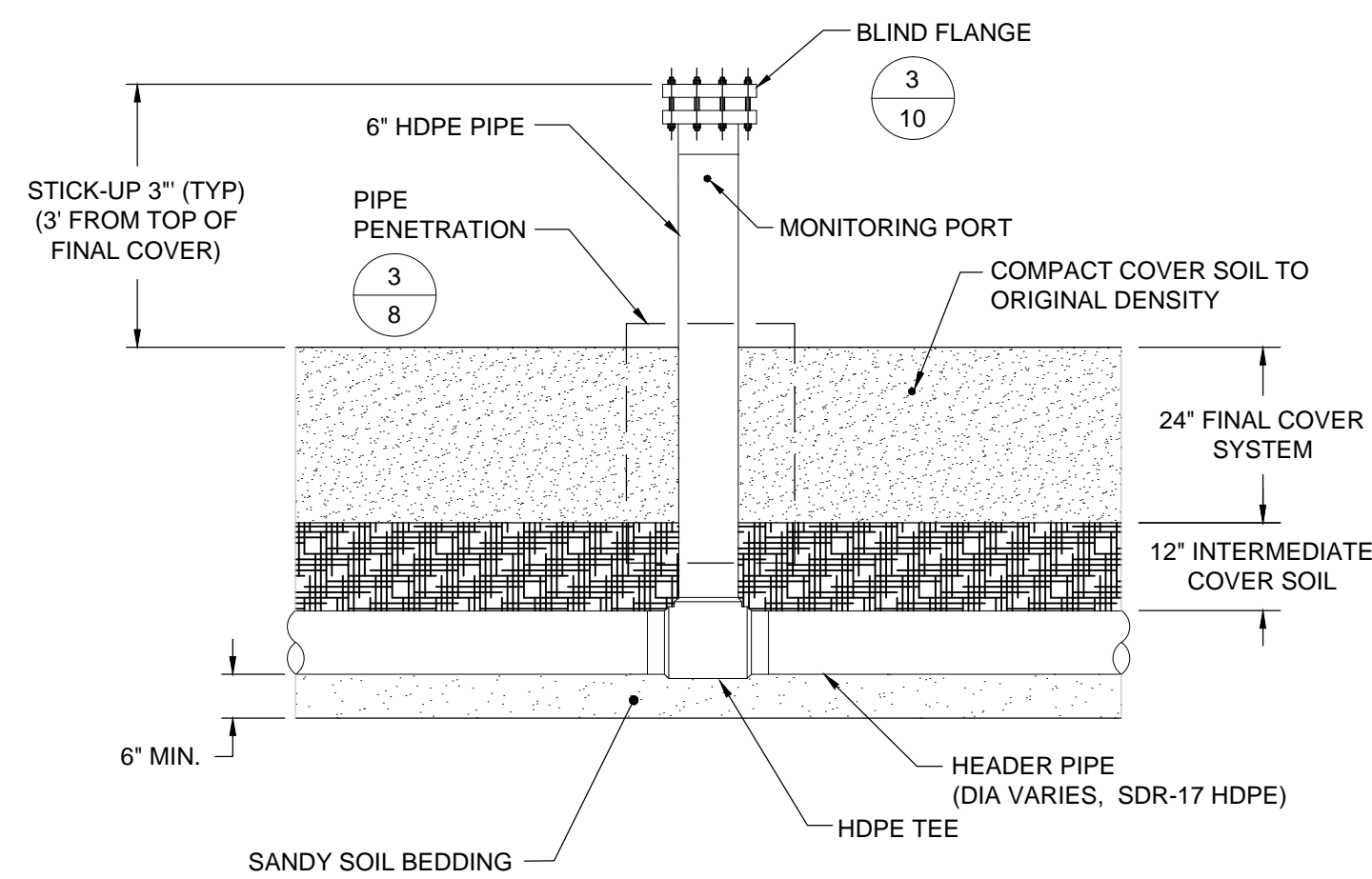
REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
PROJECT						
J.E.D. SOLID WASTE MANAGEMENT FACILITY ST. CLOUD, OSCEOLA COUNTY, FLORIDA						
TITLE						
GCCS DETAILS (1 OF 2)						
PROJECT No. 083-82734.22 FILE No. 08382734G010						
DESIGN DEG 05/18/12 SCALE NOT TO SCALE						
CADD BCL 05/18/12						
CHECK						
REVIEW						



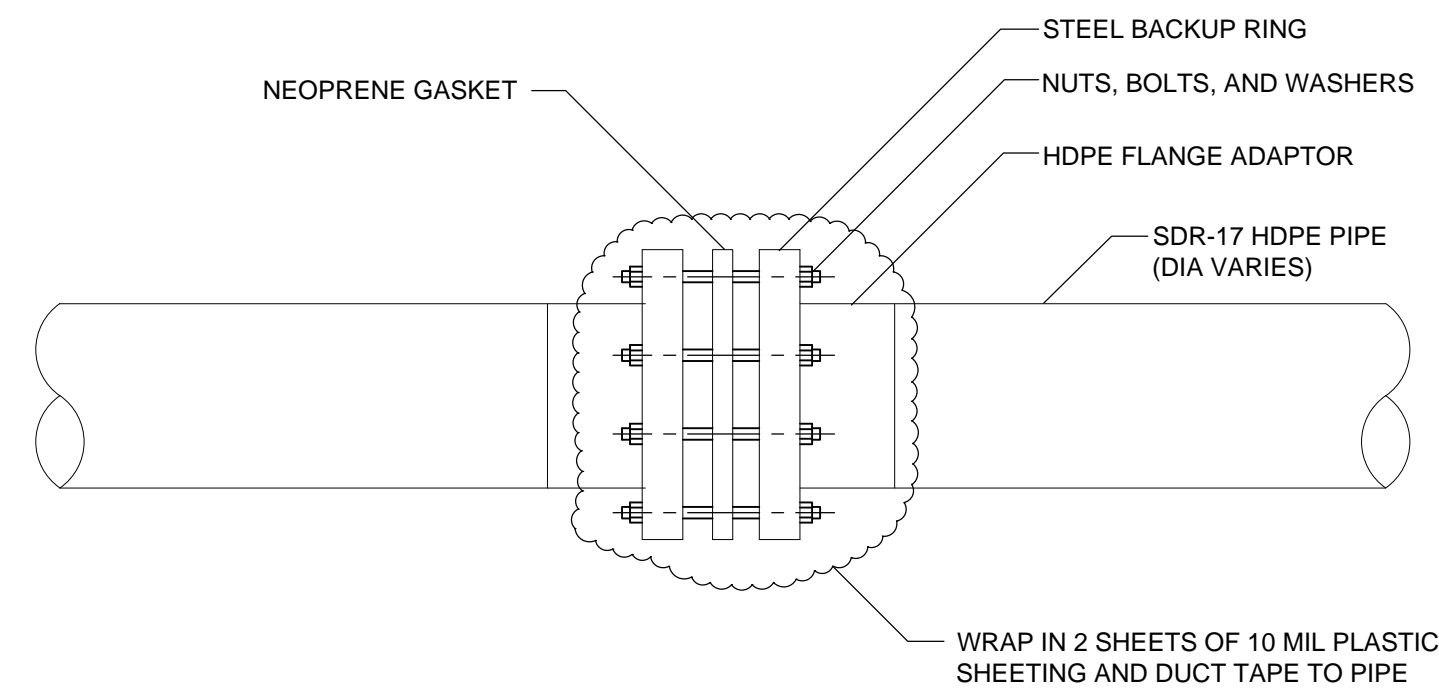
Kevin S. Brown, P.E.
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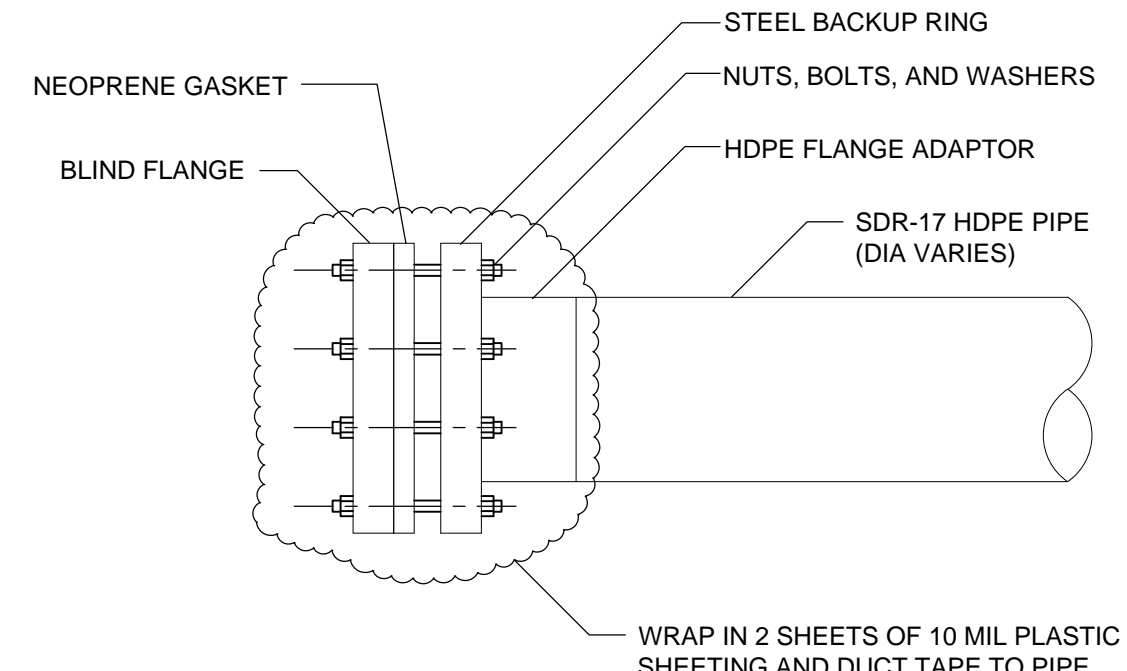
1
10 **DETAIL**
ISOLATION VALVE
SCALE: N.T.S.



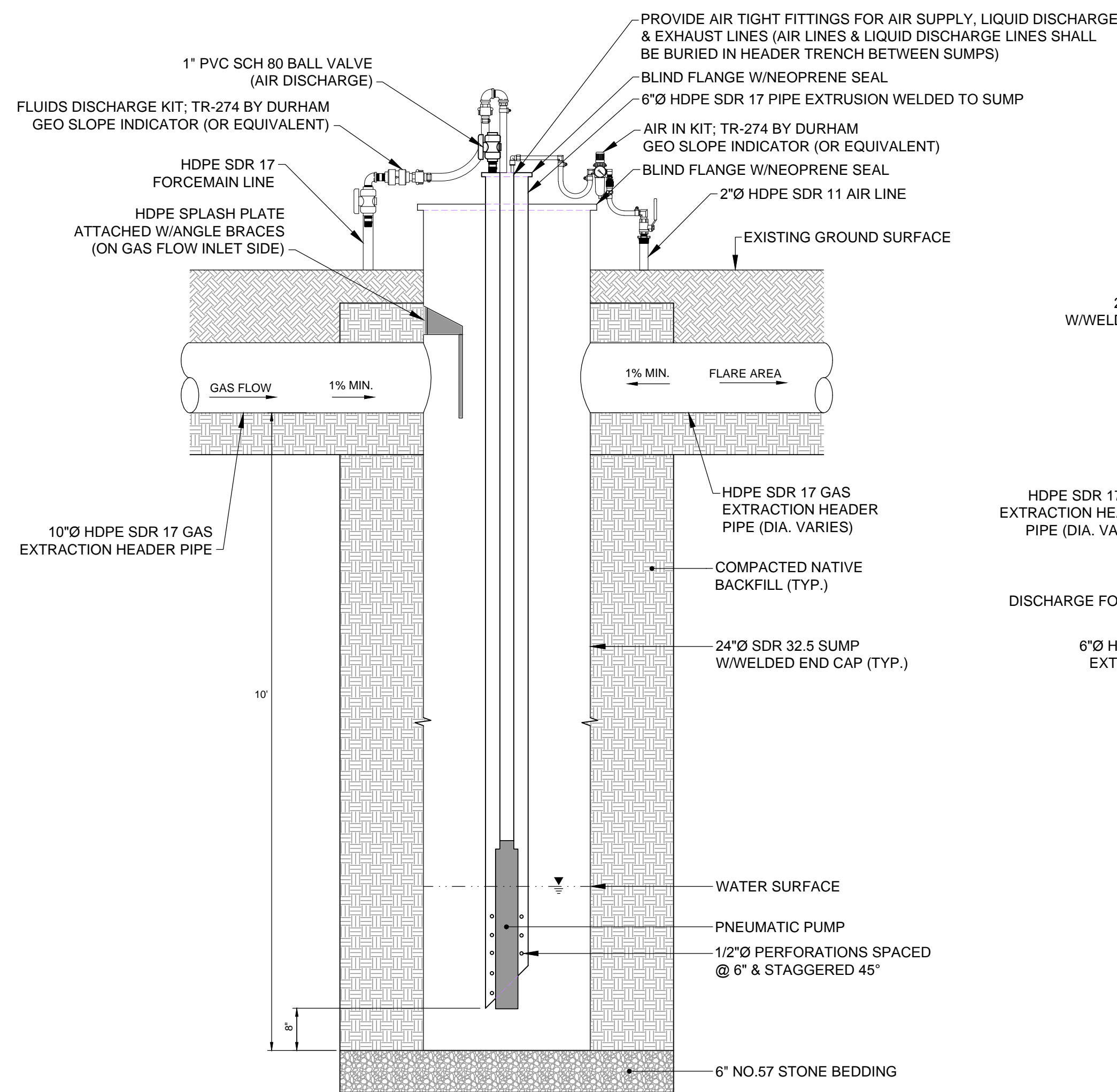
4
10 **DETAIL**
HEADER ACCESS RISER
SCALE: NTS
NOTE: HEADER ACCESS RISER SHALL BE PROVIDED AT EACH HIGH POINT ALONG HEADER PIPE



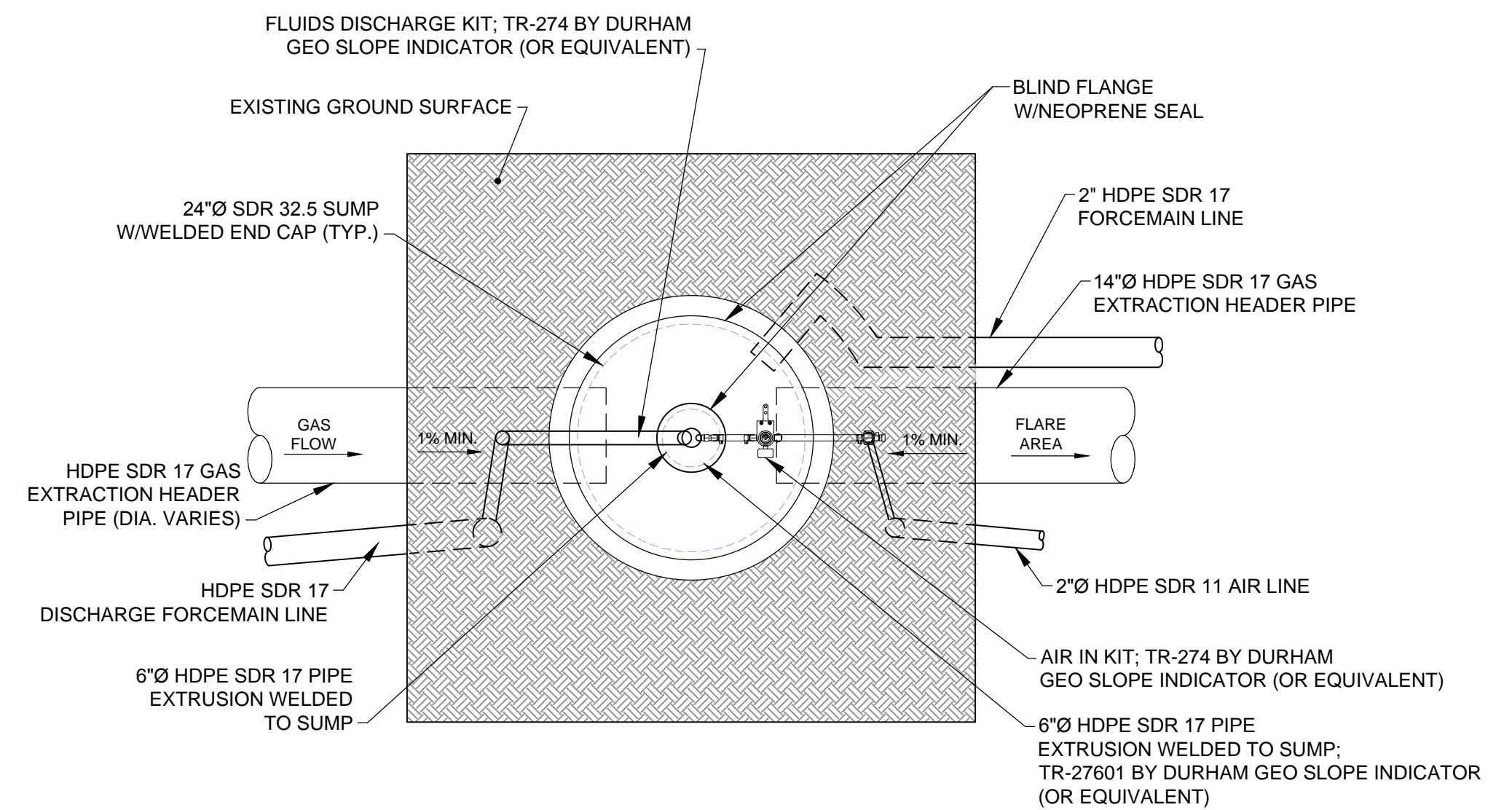
2
10 **DETAIL**
FLANGE CONNECTION (TYP.)
SCALE: N.T.S.



3
10 **DETAIL**
BLIND FLANGE (TYP)
SCALE: N.T.S.



SECTION





PLAN

5
10 **DETAIL**
CONDENSATE SUMP (OPTIONAL)
SCALE: NTS

NOTES

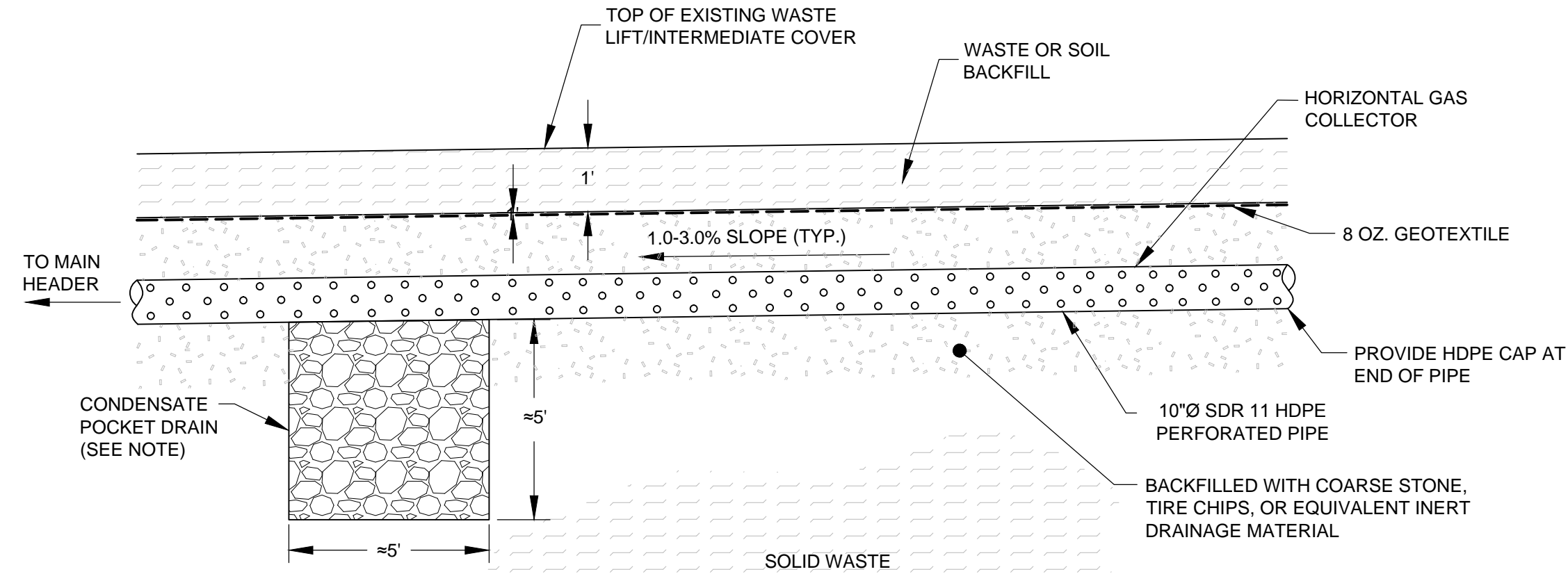
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REV	DATE	DES	REVISION DESCRIPTION			CADD	CHK	RVW				
PROJECT												
J.E.D. SOLID WASTE MANAGEMENT FACILITY ST. CLOUD, OSCEOLA COUNTY, FLORIDA												
TITLE												
GCCS DETAILS (2 OF 2)												
 Golden Associates 9428 Boy Meadows Way, Suite 400 Jacksonville, Florida 32256 Tel: 904/363-3430 Fax: 904/363-3445 COA No. 1670			PROJECT No.		083-82734.22		FILE No.		08382734G010			
			DESIGN		DEG		05/18/12		SCALE		NOT TO SCALE	
			CADD		BCL		05/18/12		SHEET 10			
			CHECK		.		.					
			REVIEW		.		.					



Golden Associates
9428 Baymeadows Way, Suite 400
Jacksonville, Florida 32256
Tel: 904/363-3430 Fax: 904/363-3445
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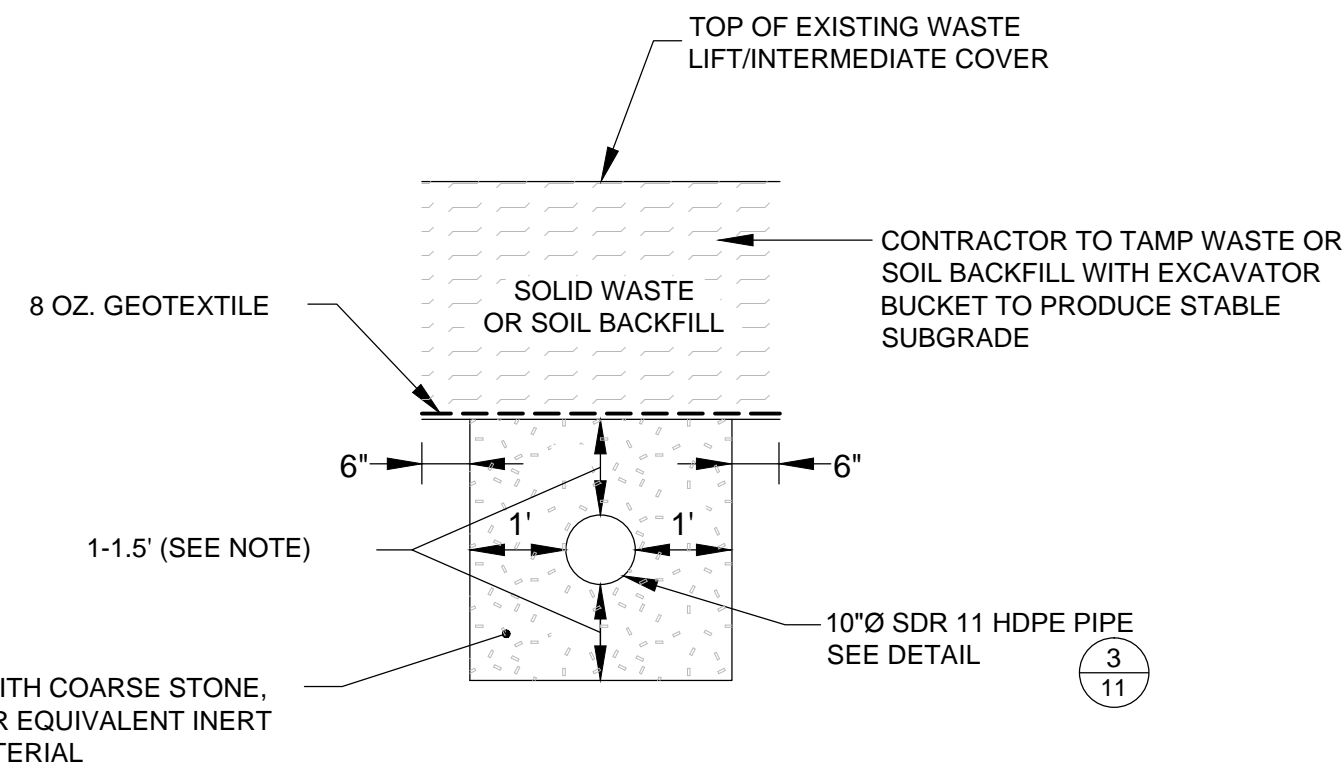


- NOTES:
- CONDENSATE POCKET DRAIN TO BE INSTALLED APPROXIMATELY EVERY 150 LINEAR FEET ALONG HORIZONTAL GAS COLLECTOR. DRAINS TO BE APPROXIMATELY 5'x5' AND BACKFILLED WITH COARSE STONE, TIRE CHIPS, OR EQUIVALENT INERT DRAINAGE MATERIAL.
 - TO ALLOW FOR INCREASED SETTLEMENT AND COMPRESSIBILITY WHEN USING TIRE CHIPS AS BACKFILL MEDIA, INCREASE DEPTHS TO 1.5' ABOVE AND BELOW PIPE. DIMENSIONS OF TRENCH ARE MINIMUM. OWNER MAY INCREASE SIZE OF TRENCH BASED ON MATERIAL USED.

1 11

TYPICAL PROFILE OF HORIZONTAL GAS COLLECTOR

NTS

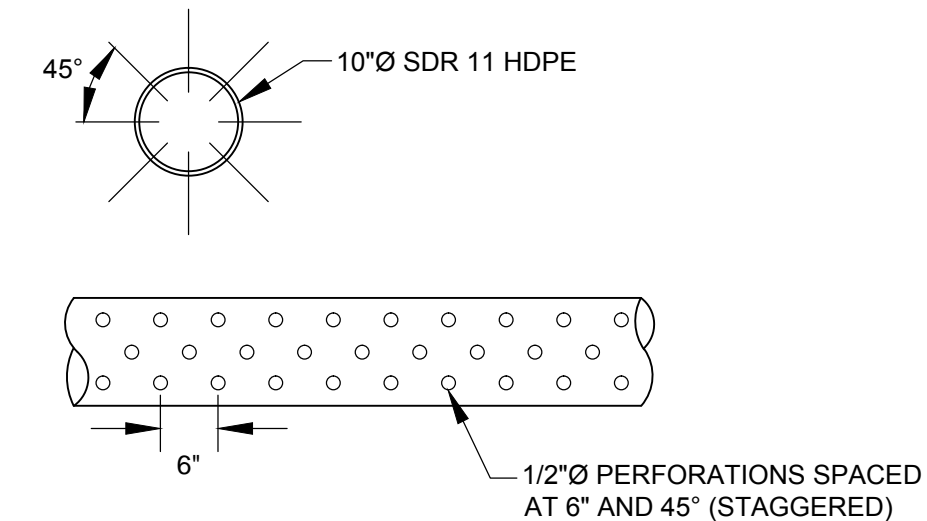


NOTE: TO ALLOW FOR INCREASED SETTLEMENT AND COMPRESSIBILITY WHEN USING TIRE CHIPS AS BACKFILL MEDIA, INCREASE DEPTHS TO 1.5' ABOVE AND BELOW PIPE. DIMENSIONS OF TRENCH ARE MINIMUM. OWNER MAY INCREASE SIZE OF TRENCH BASED ON MATERIAL USED.

2 11

TYPICAL SECTION OF 10"Ø HDPE HORIZONTAL GAS COLLECTOR

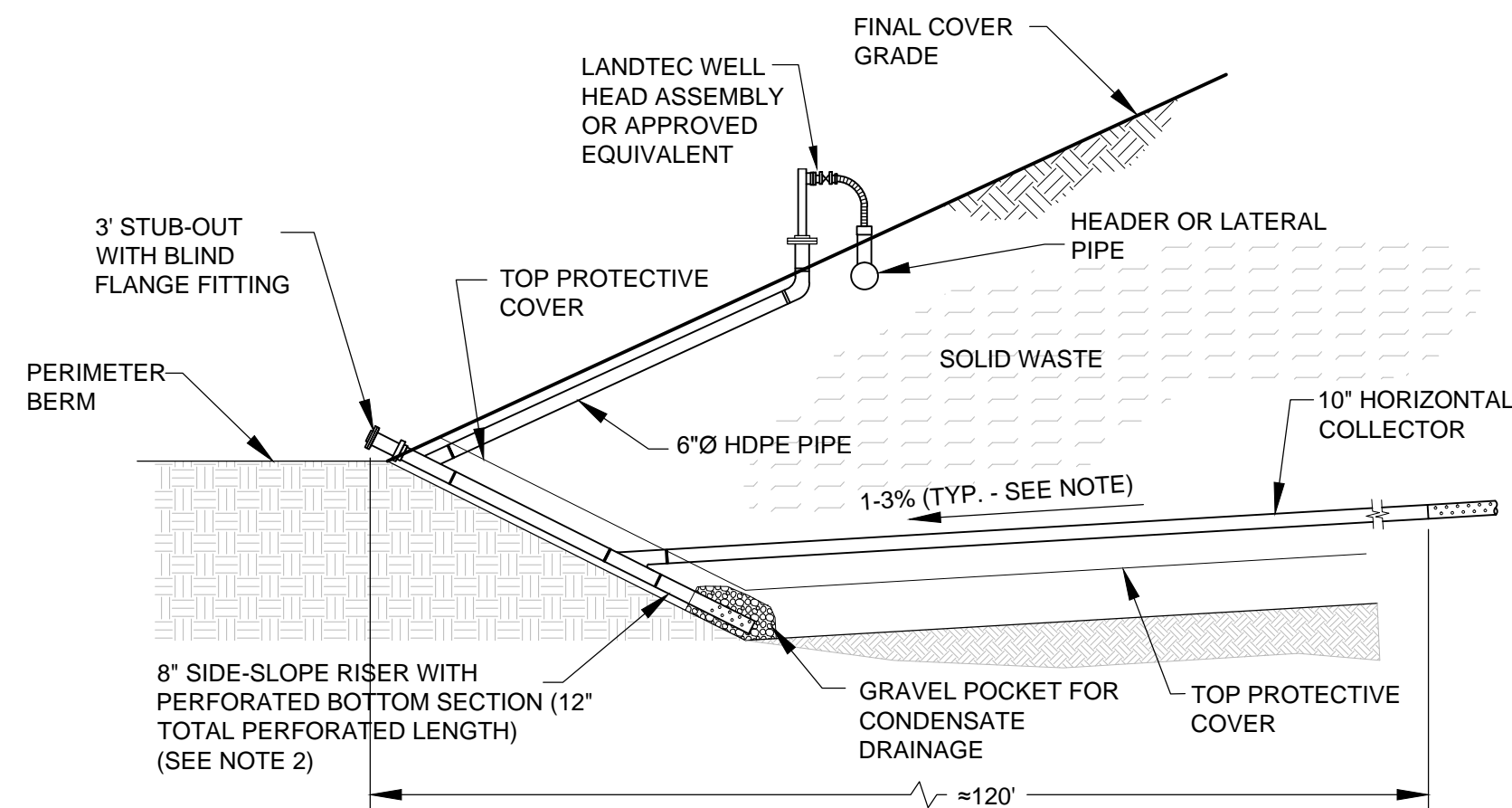
NTS



3 11

HDPE PERFORATED PIPE DETAIL

NTS

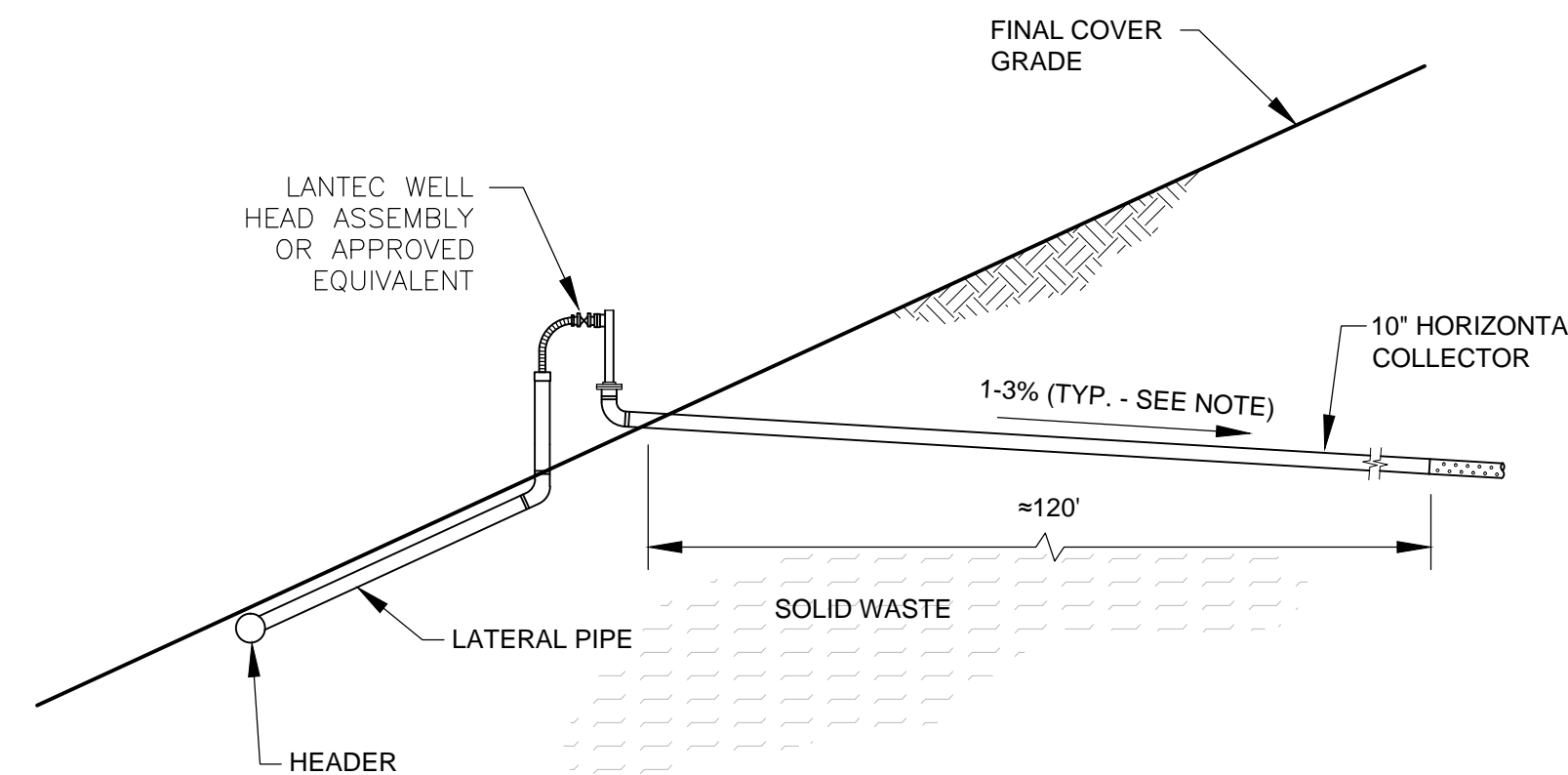


- NOTES:
- SLOPE DIRECTION AND GRADE OF HORIZONTAL GAS COLLECTOR WILL BE BASED ON SLOPE DIRECTION AND GRADE OF FILL OPERATIONS.
 - 8" SIDESLOPE RISER TO BE INSTALLED DIRECTLY ON UNDERLYING BASE OF GEOCOMPOSITE LINER DURING CELL CONSTRUCTION. PLACE ADDITIONAL STRIP OF GEOCOMPOSITE BENEATH PIPE FOR ADDITIONAL CUSHION.

4 11

CONNECTION DETAIL HORIZONTAL GAS COLLECTOR 1ST LEVEL

NTS



NOTE: SLOPE DIRECTION AND GRADE OF HORIZONTAL GAS COLLECTOR WILL BE BASED ON SLOPE DIRECTION AND GRADE OF FILL OPERATIONS.

5 11

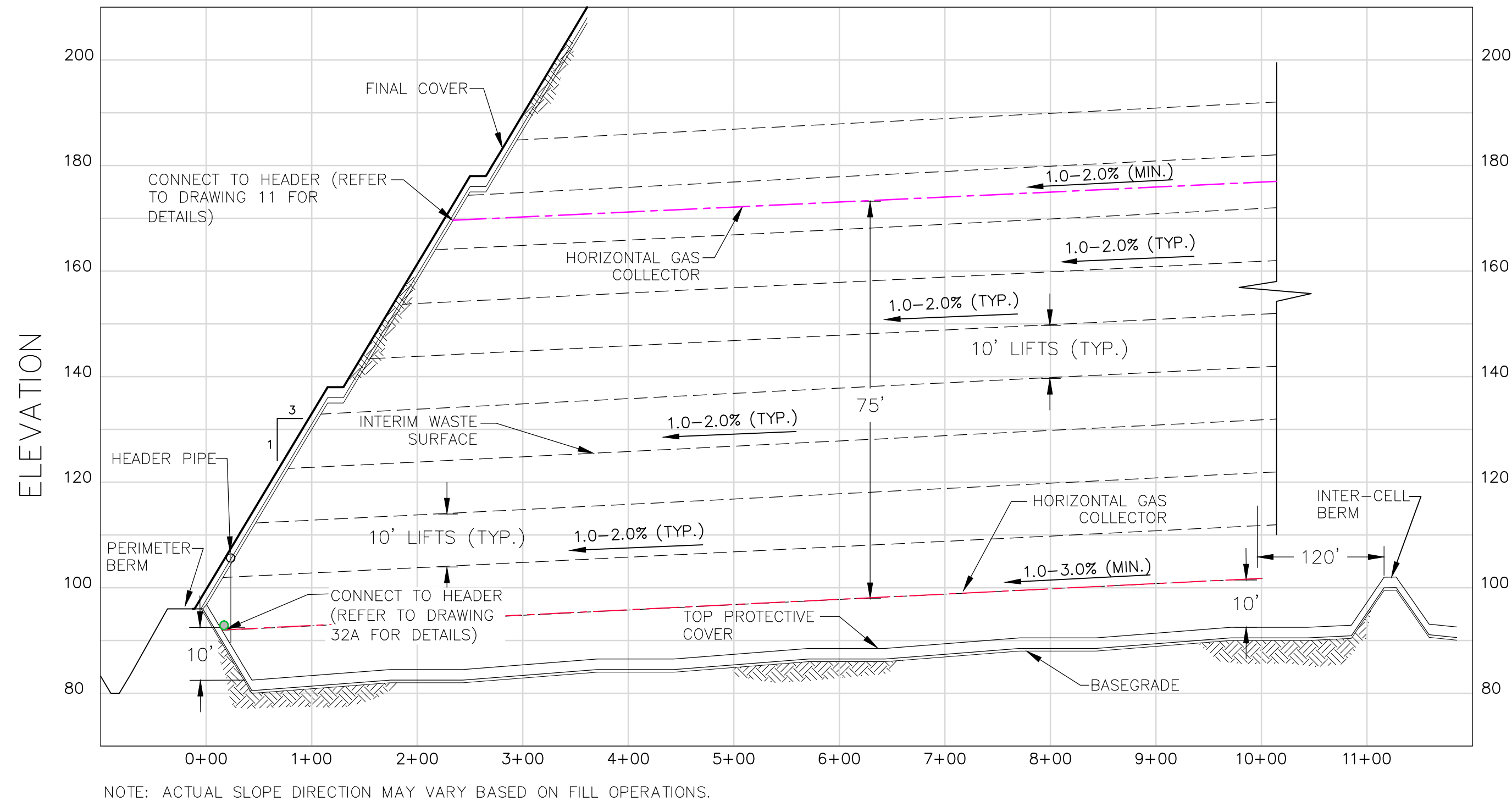
CONNECTION DETAIL HORIZONTAL GAS COLLECTOR 2ND LEVEL

NTS

NOTES

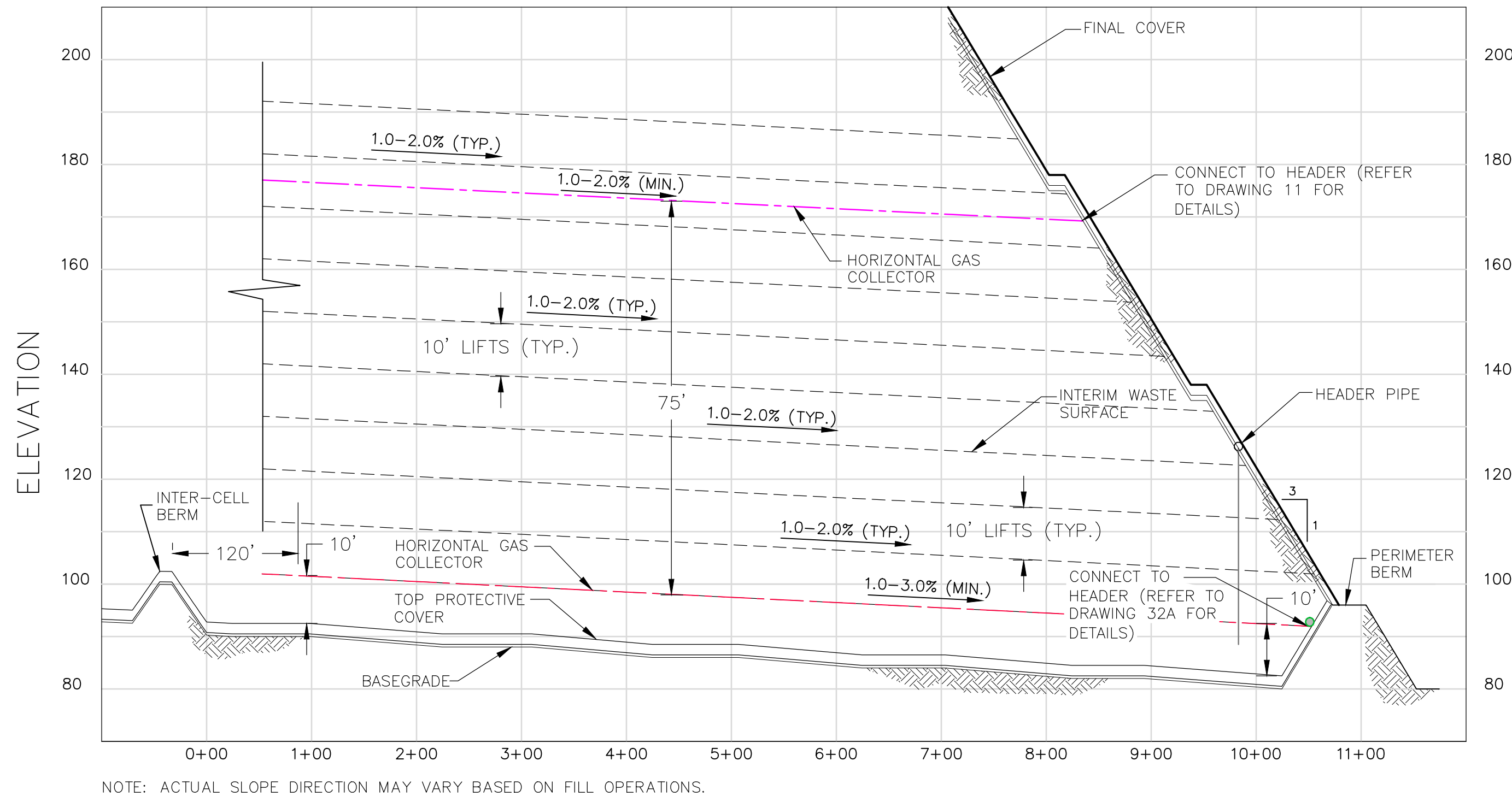
- EXACT CONSTRUCTION DETAILS MAY VARY ACCORDING TO FIELD CONDITIONS AND MANUFACTURER SPECIFIC DETAILS WHILE KEEPING THE GENERAL CONCEPTS OF THE DETAILS PRESENTED ON THIS DRAWING.

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW
PROJECT						
J.E.D. SOLID WASTE MANAGEMENT FACILITY ST. CLOUD, OSCEOLA COUNTY, FLORIDA						
TITLE						
HORIZONTAL GAS COLLECTOR DETAILS						
PROJECT No.			083-82734.22		FILE No.	
DESIGN			DEG		05/18/12	
CADD			BCL		05/18/12	
CHECK			-		-	
REVIEW			-		-	
9428 Baymeadows Way, Suite 400 Jacksonville, Florida 32256 Tel: 904/363-3430 Fax: 904/363-3445 COA No. 1670			SCALE		NOT TO SCALE	
SHEET 11						



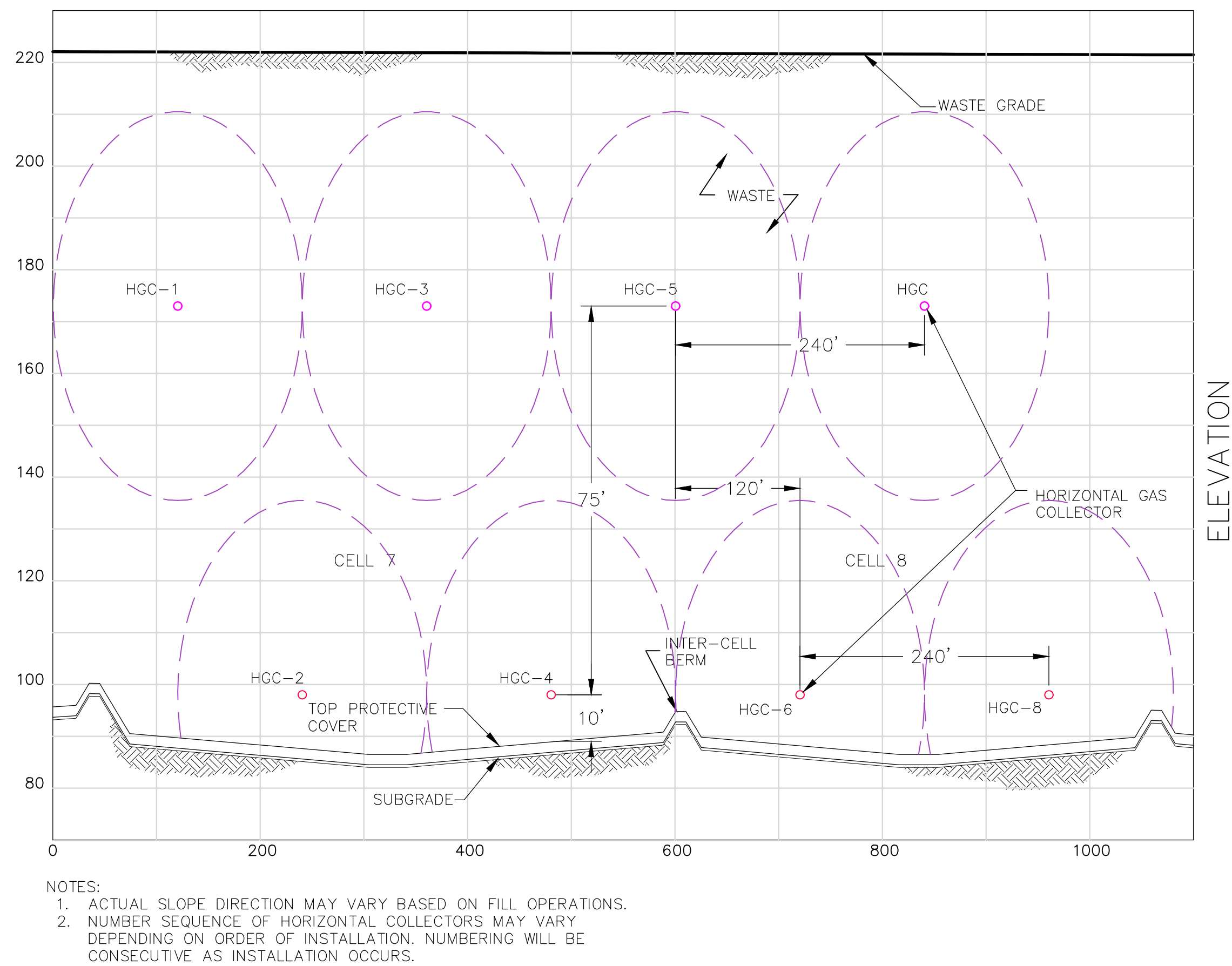
A
12 CELLS 7 & 8 TYPICAL CROSS SECTION

20 0 20
VERTICAL SCALE FEET
100 0 100
HORIZONTAL SCALE FEET



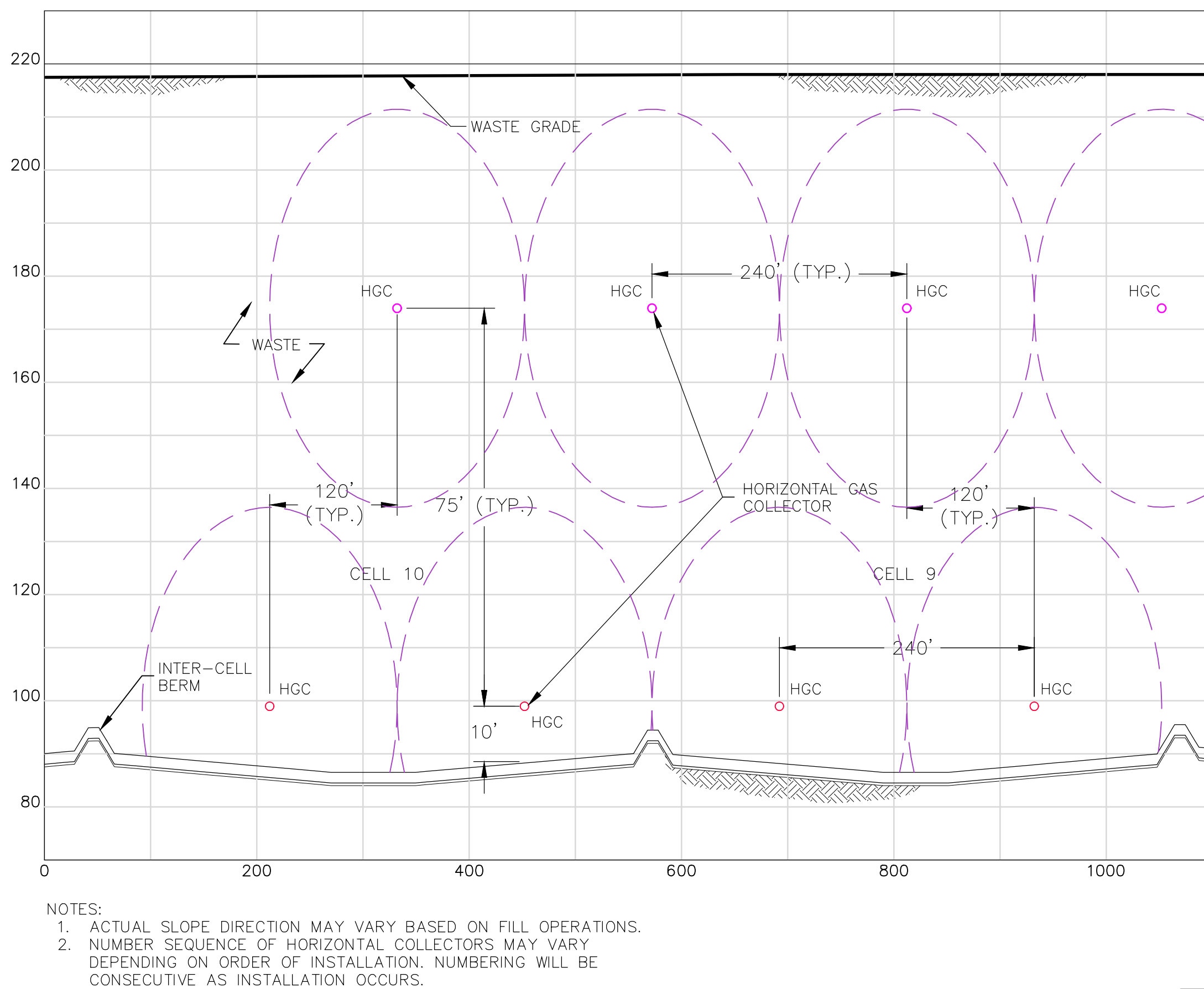
B
12 CELLS 9 & 10 TYPICAL CROSS SECTION

20 0 20
VERTICAL SCALE FEET
100 0 100
HORIZONTAL SCALE FEET



C
12 SECTION THRU CELLS 7 AND 8

20 0 20
VERTICAL SCALE FEET
100 0 100
HORIZONTAL SCALE FEET



D
12 SECTION THRU CELLS 9 AND 10

20 0 20
VERTICAL SCALE FEET
100 0 100
HORIZONTAL SCALE FEET

PROJECT J.E.D. SOLID WASTE MANAGEMENT FACILITY ST. CLOUD, OSCEOLA COUNTY, FLORIDA			
TITLE HORIZONTAL GAS COLLECTOR CROSS SECTIONS			
PROJECT No. 083-82734.22		FILE No. 08382734G012	
DESIGN	DEG	05/18/12	SCALE AS SHOWN
CADD	BCL	05/18/12	
CHECK			
REVIEW			
SHEET 12			