



INDIAN RIVER COUNTY, FLORIDA

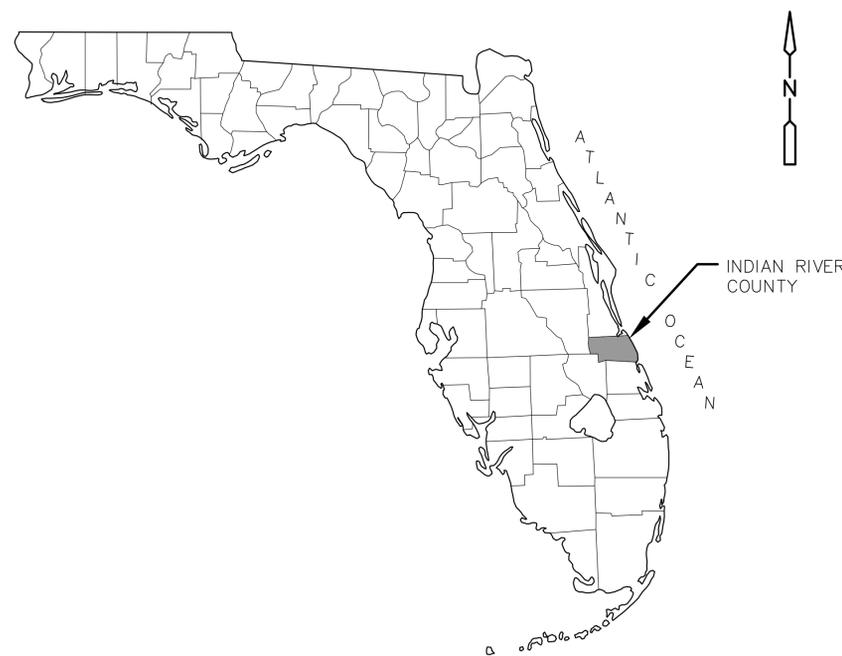
SOLID WASTE DISPOSAL DISTRICT

INDIAN RIVER COUNTY LANDFILL

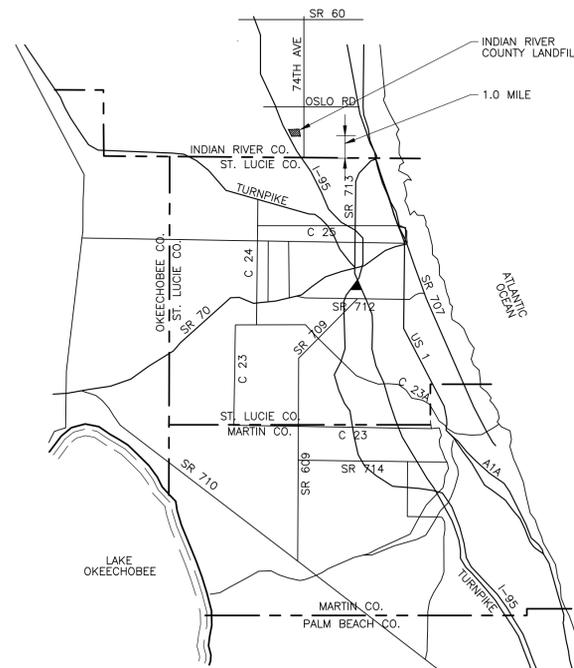
SEGMENT 3 CELL 1

LANDFILL GAS SYSTEM EXPANSION

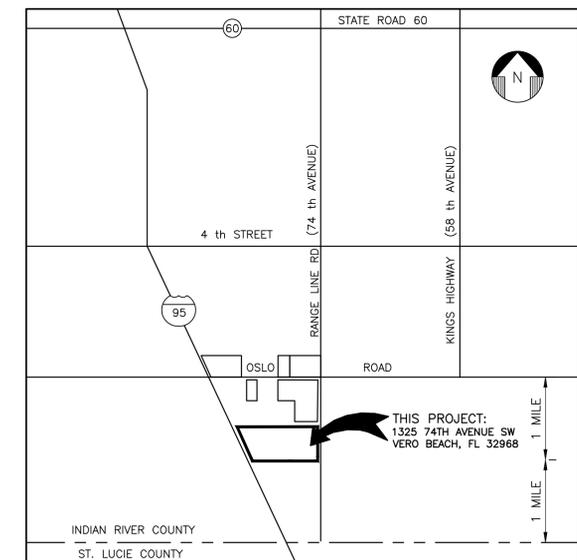
BID NO. 2021006



STATE OF FLORIDA
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



1701 HIGHWAY A-1-A, SUITE 301
VERO BEACH, FLORIDA 32963
TEL: (772) 231-4301
CDM PROJECT NO. 6706-250111
FL Cert. Authorization No. EB-0000020

NOVEMBER 2020

This item has been digitally signed and sealed by Joseph P. Curro, P.E.
on 11/24/2020.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Always call 811 two full business days before you dig to have underground utilities located and marked.

THESE PLANS MAY HAVE BEEN CHANGED IN SIZE BY REPRODUCTION. THIS REDUCTION MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

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GENERAL NOTES

- HORIZONTAL COORDINATES ARE REFERENCED TO THE EAST ZONE OF THE FLORIDA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD'83) 2011 ADJUSTMENT.
- VERTICAL ELEVATIONS ARE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929.
- LANDFILL TRAFFIC MUST BE MAINTAINED AT ALL TIMES. THIS SITE IS AN OPERATING LANDFILL. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH LANDFILL OPERATIONS, TO MINIMIZE ANY IMPACT TO SOLID WASTE OPERATIONS OR PUBLIC TRAFFIC.
- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND AGREE TO BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING HIS WORK.
- CONTRACTOR SHALL VERIFY ALL UTILITIES AND NOTIFY COUNTY LANDFILL DIRECTOR OR DESIGNEE, 72 HOURS PRIOR TO DIGGING IN ANY PORTION OF THE SITE.
- THE CONTRACTOR SHALL REPLACE ANY DRAINAGE CULVERTS, FENCES, ETC., PER FDOT STANDARDS WITH THE SAME TYPE OF MATERIAL THAT WAS DAMAGED OR REMOVED DURING CONSTRUCTION.
- TOPOGRAPHIC SURVEY AND AERIAL MAPPING WAS PROVIDED BY AREA OF INTEREST SOLUTIONS, INC. FLOWN ON MULTIPLE DATES OF JANUARY 20, 2020 AND JANUARY 21, 2020.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER'S OFFICE IMMEDIATELY UPON FINDING ANY CONFLICTS DURING CONSTRUCTION ON ANY IMPROVEMENTS SHOWN ON THE DRAWINGS.
- EROSION CONTROL AND SEDIMENTATION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO BEGINNING ANY DEMOLITION OR CONSTRUCTION. THEY SHALL BE INSTALLED TO THE LIMITS SHOWN ON THE DRAWINGS, AS REQUIRED IN THE SPECIFICATIONS AND IN ACCORDANCE WITH ALL REGULATORY AGENCY REQUIREMENTS. EXTERIOR BERMS SHALL BE STABILIZED IF THEY ARE TO REMAIN UNDISTURBED FOR MORE THAN TWO WEEKS.
- THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS SHALL BE STRICTLY OBSERVED BY THE CONTRACTOR. ALL INGRESS, EGRESS AND TRAFFIC PATTERNS ON THE SITE SHALL BE WITHIN THE LIMITS OF CONSTRUCTION OR ON HAUL ROADS SHOWN ON THE DRAWINGS.
- NO REPRESENTATION IS MADE REGARDING BALANCED EARTHWORK. ANY EXCESS MATERIAL, OR MATERIAL NOT SUITABLE FOR USE AS BACKFILL, SHALL BE PLACED IN PERMANENT STOCKPILE AREA DESIGNATED BY THE OWNER AND STABILIZED IN ACCORDANCE WITH THE SPECIFICATION. NO MATERIAL SHALL BE REMOVED FROM SITE WITHOUT APPROVAL IN WRITING FROM THE OWNER.
- ANY WASTE ENCOUNTERED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF AT THE WORKING FACE OF SEGMENT 3, CELL 2 PER THE OWNER'S INSTRUCTION. RESIDENT PROJECT REPRESENTATIVE TO DOCUMENT TRUCK COUNT.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR DELIVERY AND DISPOSITION OF ANY SALVAGEABLE MATERIALS.
- ANY DAMAGE TO HAUL ROADS CAUSED BY CONSTRUCTION OR CONSTRUCTION TRAFFIC MUST BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL LOCATE, FLAG, AND PROTECT EXISTING LANDFILL GAS WELLHEAD, VALVE, AND OTHER LANDFILL GAS APPURTENANCES WITHIN LIMITS OF CONSTRUCTION.
- THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF ANY DAMAGE TO ANY COMPONENT OF THE ACTIVE LANDFILL GAS COLLECTION SYSTEM (WELLHEADS, RISERS, VALVES, ETC.) EACH DAMAGED COMPONENT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR WITHIN 24 HOURS AS DIRECTED BY THE OWNER AND AT NO COST TO THE OWNER.
- THIS LANDFILL HAS AN ACTIVE LANDFILL GAS COLLECTION SYSTEM. TO MINIMIZE DISRUPTION IN GAS COLLECTION, CONTRACTOR MUST COORDINATE WITH LANDFILL OPERATOR, OWNER, AND ENGINEER ON ANY PLANNED DISRUPTION OR TIE-IN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSFERRING ANY LEACHATE ENCOUNTERED DURING CONSTRUCTION TO AN EXISTING ONSITE LEACHATE MANHOLE OR PUMP STATION AS DIRECTED BY THE OWNER. CONTRACTOR MUST MAKE ALL REASONABLE EFFORTS TO SEGREGATE STORMWATER FROM LEACHATE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY SEDIMENT ACCUMULATION IN THE STORMWATER DITCHES THAT RESULTS FROM CONSTRUCTION ACTIVITIES.

SYMBOL	FEATURE
	BUILDING OR STRUCTURE FOOTPRINT
	TREE, SIZE & TYPE
	HEDGE
	EDGE OF WOODS
	EDGE OF WETLANDS
	EDGE OF SHORELINE
	POND
	DIRECTION OF FLOW FOR STORMWATER
	DIRECTION OF FLOW FOR SWALE
	LINED CANAL

TYPICAL LANDFILL SYMBOLS

SYMBOL	FEATURE
	☉ OF COLLECTION PIPING
	☉ OF DETECTION PIPING
	TOP OF BERM
	LEACHATE COLLECTION SYSTEM
	LEACHATE DETECTION SYSTEM
	TOP OF BERM
	TOP OF LINER
	HIGH POINT
	LOW POINT
	FLOW DIRECTION
	LIMITS OF CONSTRUCTION
	APPROXIMATE SEGMENT 2 PARTIAL CLOSURE LINER LIMIT

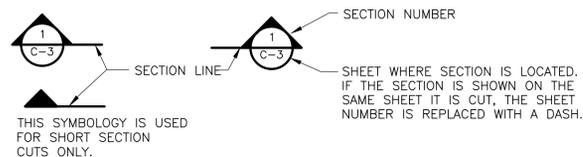
SURFACE ELEVATION SYMBOLS

SYMBOL	FEATURE
	DEPRESSION CONTOUR
	EXISTING INTERMEDIATE CONTOUR LINE AND ELEVATION DESIGNATION
	EXISTING INDEX CONTOUR LINE AND ELEVATION DESIGNATION
	PROPOSED INTERMEDIATE CONTOUR LINE AND ELEVATION DESIGNATION
	PROPOSED INDEX CONTOUR LINE AND ELEVATION DESIGNATION
	SPOT ELEVATION
	EXISTING EMBANKMENT (REVERSE SYMBOLS FOR CHANNEL)
	PROPOSED EMBANKMENT (REVERSE SYMBOLS FOR CHANNEL)

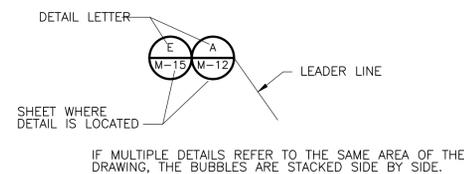
LANDFILL COMPONENT SYMBOLS

SYMBOL	FEATURE
	COMMON FILL
	GEOTEXTILE
	GEONET
	PROCESSED SAND
	GRAVEL OR RIVER ROCK
	GEOSYNTHETIC CLAY LINER
	GEOMEMBRANE
	PROTECTIVE SAND
	SOLID WASTE
	CAP FOUNDATION LEVELING LAYER
	PROTECTIVE SOIL/TOP SOIL

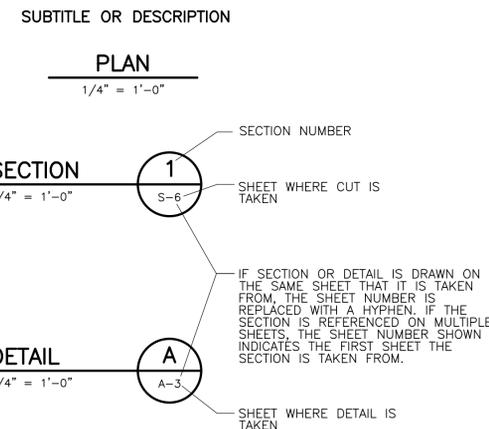
SECTION CUT SYMBOLS



DETAIL CALL OUT SYMBOLS



DRAWING SECTION AND DETAIL TITLES



SHEET NO.	TITLE
GENERAL	
	COVER SHEET
G-1	GENERAL NOTES/SYMBOLS/LEGEND/INDEX OF SHEETS
G-2	EXISTING CONDITIONS/LIMITS OF CONSTRUCTION/HORIZONTAL CONTROL PLAN/CONTRACTOR STAGING AREA
CIVIL	
C-1	LANDFILL GAS SYSTEM PLAN
C-2	COMPRESSED AIR AND CONDENSATE FORCE MAIN PLAN
CD-1	LANDFILL GAS SYSTEM DETAILS I
CD-2	LANDFILL GAS SYSTEM DETAILS II
CD-3	LANDFILL GAS SYSTEM DETAILS III

SURVEYOR LEGEND:

	GROUND CONTROL POINTS (AERIAL TARGETS) SET BY OTHERS
	ASPHALT PAVED ROAD
	COMPACTED ROCK/DIRT ROAD
	CONCRETE
	CONCRETE RIP-RAP
	CONCRETE FABRIFORM
	5' MAJOR CONTOUR LINE
	SPOT ELEVATION

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY:	C. STOWERS
DRAWN BY:	A. NUNES
SHEET CHK'D BY:	K. WESTERLUND
CROSS CHK'D BY:	D. HIGHTOWER
APPROVED BY:	J. CURRO
DATE:	NOVEMBER 2020

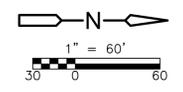
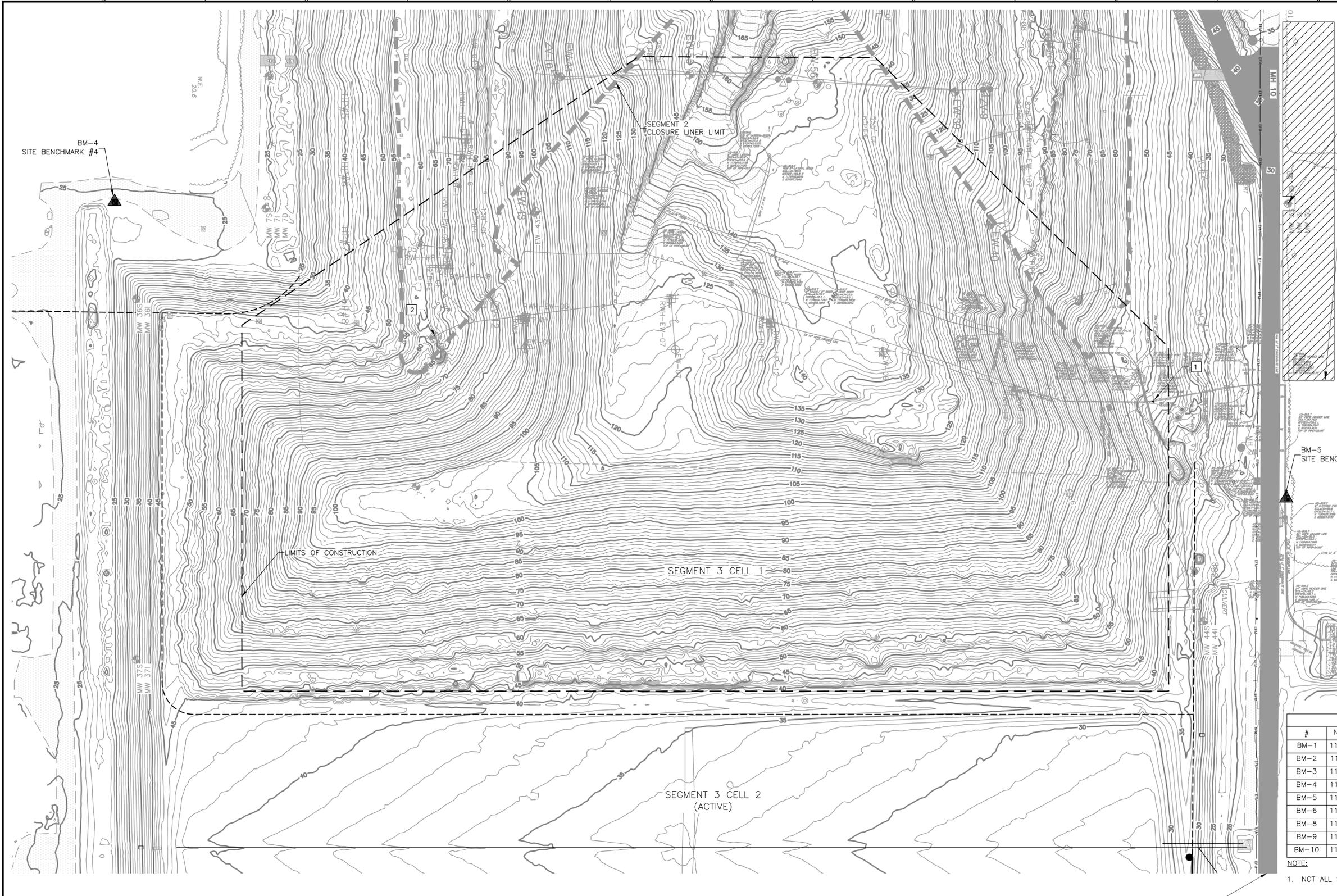
CDM Smith
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 FL CDA No. EB-0000020

SOLID WASTE DISPOSAL DISTRICT
 INDIAN RIVER COUNTY, FLORIDA
INDIAN RIVER COUNTY LANDFILL
 SEGMENT 3 CELL 1
LANDFILL GAS SYSTEM EXPANSION

**GENERAL NOTES/SYMBOLS/LEGEND/
 INDEX OF SHEETS**

DATE: 11/24/2020
JOSEPH P. CURRO
 PE NO. 58416
 PROJECT NO. 6706-250111
 FILE NAME: G001ILMN.DWG
 SHEET NO.
G-1
 ISSUED FOR BID

XREFS: [CDMS-2436, CWZ005ST, CWZ108ST, CWZ201ST, X-TOPO-BASE, CSPPL001, CEZ000SS, X-ABGAS, 1621 indian river gas system ab-use2, X-SEC2_obliner, MWP000PS] Images: []
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- CONTRACTOR STAGING AREA
- PROTECT EXISTING GROUNDWATER MONITORING WELLS AS NEEDED
- LEGEND**
- ▲ SITE BENCHMARK
 - APPROXIMATE SEGMENT 2 PARTIAL CLOSURE LINER LIMIT
 - - - LIMITS OF CONSTRUCTION
 - ▨ STAGING AREA

- NOTES:**
- PROTECT EXISTING STRUCTURES OF LANDFILL GAS SYSTEM FROM DAMAGE. SEE NOTES 15 TO 17 ON SHEET G-1.

POINT TABLE

POINT NO.	NORTHING	EASTING	DESCRIPTION
1	1180229.86	822120.47	EXIST 24" TO 18" REDUCER
2	1179325.34	822040.52	EXIST CONDENSATE SUMP

SITE BENCHMARKS

#	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM-1	1179112.14	824456.32	26.48	IRON REBAR AND CAP, LFAT1
BM-2	1177903.71	824443.89	26.21	IRON REBAR AND CAP, LFAT2
BM-3	1177954.33	821918.73	26.28	IRON REBAR AND CAP, LFAT3
BM-4	1178922.99	821871.16	24.63	NAIL AND DISK, LFAT4
BM-5	1180398.83	822242.14	26.53	NAIL AND DISK, LFAT5
BM-6	1180358.13	819676.92	26.56	IRON REBAR AND CAP, LFAT6
BM-8	1179142.00	820187.42	26.24	IRON REBAR AND CAP, LFAT8
BM-9	1179846.46	823865.49	25.55	IRON REBAR AND CAP, LFAT9
BM-10	1179858.56	824450.11	27.50	IRON REBAR AND CAP, LFAT10

NOTE:
1. NOT ALL SITE BENCHMARK LOCATIONS ARE SHOWN ON THIS SHEET.

REV. NO.	DATE	DRWN	CHKD	REMARKS

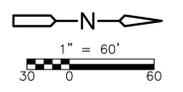
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 DRAWN BY: A. NUNES
 SHEET CHK'D BY: K. WESTERLUND
 CROSS CHK'D BY: D. HIGHTOWER
 APPROVED BY: J. CURRO
 DATE: NOVEMBER 2020



SOLID WASTE DISPOSAL DISTRICT
 INDIAN RIVER COUNTY, FLORIDA
 INDIAN RIVER COUNTY LANDFILL
 SEGMENT 3 CELL 1
 LANDFILL GAS SYSTEM EXPANSION

EXISTING CONDITIONS/
 LIMITS OF CONSTRUCTION/
 HORIZONTAL CONTROL PLAN/
 CONTRACTOR STAGING AREA

JOSEPH PAUL CURRO
 LICENSE
 No. 58416
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 DATE: 11/24/2020
 JOSEPH P CURRO
 PE NO. 58416
 PROJECT NO. 6706-250111
 FILE NAME: G002NFHC.DWG
 SHEET NO.
G-2
 ISSUED FOR BID

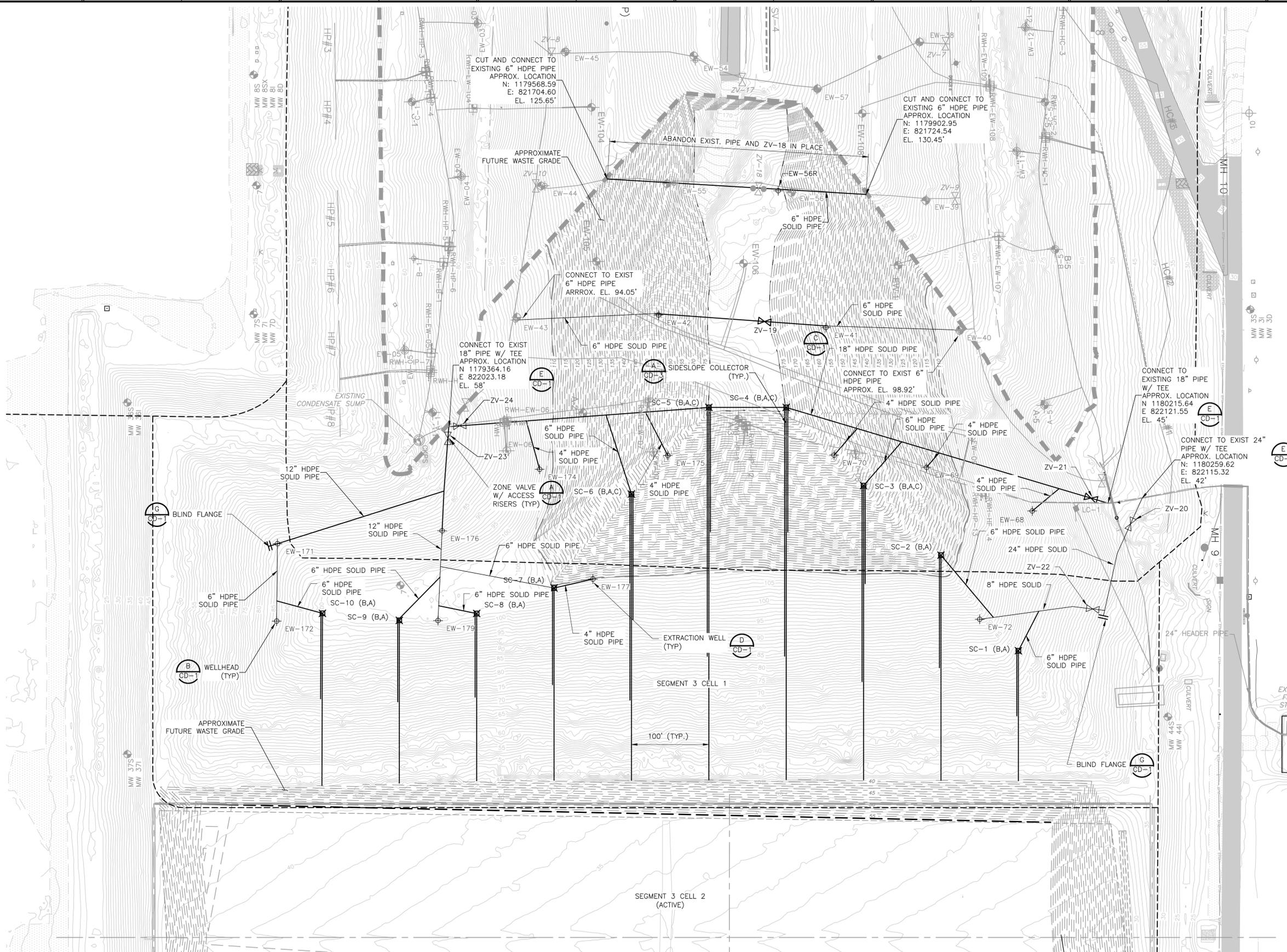


LEGEND
 ⊕ LFG EXTRACTION WELL OR COLLECTOR
 ⊗ ZONE VALVE WITH ACCESS RISERS

- NOTES:**
- SEE WELL DEPTH SCHEDULE ON SHEET CD-1 FOR COORDINATES AND LENGTHS OF VERTICAL EXTRACTION WELLS.
 - ALL HEADER PIPING SHALL BE PITCHED A MINIMUM OF 3%.
 - ALL NEW LFG SYSTEM COMPONENTS SHALL BE LABELED PROPERLY.

SIDESLOPE COLLECTOR QUANTITIES AND WELLHEAD LOCATIONS						
SIDESLOPE COLLECTOR	SOLID PIPE (FT)	PERFORATED PIPE (FT)	TOTAL LENGTH (FT)	WELLHEADS LOCATION		
				NORTHING	EASTING	
SC-1	A	105	74	179	1180099.75	822311.42
	B	20	74	94		
SC-2	A	168	137	305	1179999.75	822188.49
	B	20	137	157		
SC-3	A	282	119	401	1179899.75	822099.01
	B	150	119	270		
	C	20	119	139		
SC-4	A	352	154	506	1179799.75	821998.43
	B	185	154	340		
	C	20	154	174		
SC-5	A	352	154	506	1179699.75	821998.43
	B	185	154	340		
	C	20	154	174		
SC-6	A	275	116	391	1179599.75	822109.87
	B	147	116	263		
	C	20	116	136		
SC-7	A	147	116	263	1179499.75	822230.71
	B	20	116	136		
SC-8	A	131	100	231	1179399.75	822263.52
	B	20	100	120		
SC-9	A	126	95	221	1179299.75	822272.28
	B	20	95	115		
SC-10	A	131	100	231	1179200.43	822263.26
	B	20	100	120		

TABLE NOTE:
 1. THE WELLHEAD LOCATIONS AND PIPE QUANTITIES ARE APPROXIMATE. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS AND THEN COORDINATE WITH ENGINEER ON WELLHEAD LOCATIONS TO DETERMINE PIPE LENGTHS.



XREFs: [CDMS-2436, CWZ108ST, CWZ201ST, X-TOPO-BASE, CGPPL001, X_SEG2_obliner, X_SEG1_VERT_EXP_ASB, CEZ000SS, 1621 Indian river gas system asb-use2, CWZ000ST, CWF000ST, CWZ002ST, CST001ST] Images: []
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REV. NO.	DATE	DRWN	CHKD	REMARKS

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 DRAWN BY: A. NUNES
 SHEET CHK'D BY: K. WESTERLUND
 CROSS CHK'D BY: D. HIGHTOWER
 APPROVED BY: J. CURRO
 DATE: NOVEMBER 2020

CDM Smith
 1701 Highway A-1-A, Suite 301
 Vero Beach, FL 32963
 Tel: (772) 231-4301
 FL CDA No. EP-000020

SOLID WASTE DISPOSAL DISTRICT
 INDIAN RIVER COUNTY, FLORIDA
INDIAN RIVER COUNTY LANDFILL
SEGMENT 3 CELL 1
LANDFILL GAS SYSTEM EXPANSION

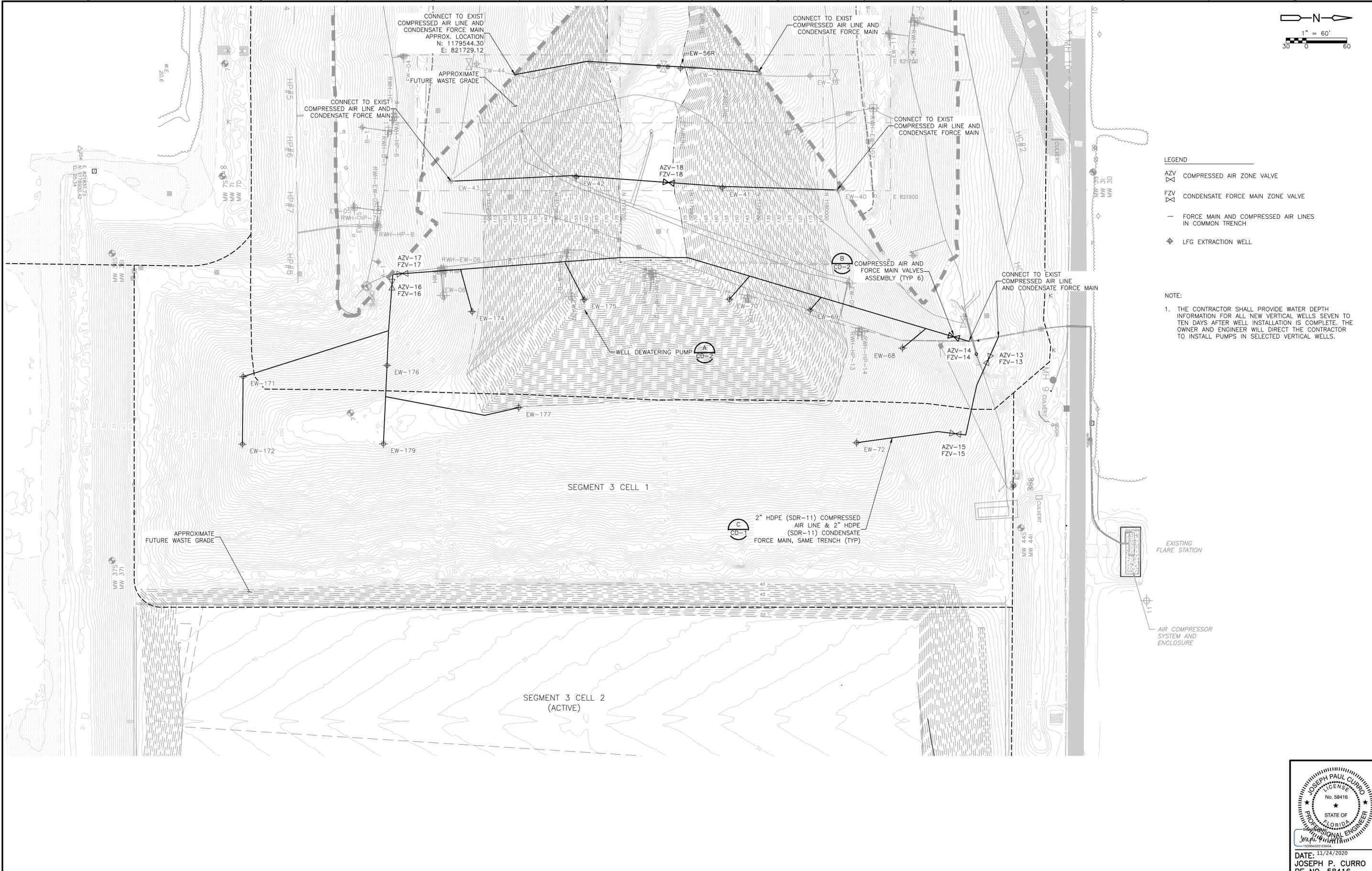
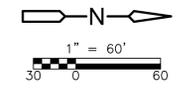
LANDFILL GAS SYSTEM PLAN

PROJECT NO. 6706-250111
 FILE NAME: C001SPPL.DWG

SHEET NO.
C-1

JOSEPH P. CURRO
 LICENSE No. 58416
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

DATE: 11/24/2020
JOSEPH P. CURRO
 PE NO. 58416



- LEGEND**
- AZV COMPRESSED AIR ZONE VALVE
 - FZV CONDENSATE FORCE MAIN ZONE VALVE
 - FORCE MAIN AND COMPRESSED AIR LINES IN COMMON TRENCH
 - ⊕ LFG EXTRACTION WELL

- NOTE:**
1. THE CONTRACTOR SHALL PROVIDE WATER DEPTH INFORMATION FOR ALL NEW VERTICAL WELLS SEVEN TO TEN DAYS AFTER WELL INSTALLATION IS COMPLETE. THE OWNER AND ENGINEER WILL DIRECT THE CONTRACTOR TO INSTALL PUMPS IN SELECTED VERTICAL WELLS.

XREFs: [CDMS-2436, CWZ108ST, CWZ201ST, CGPPL001, CEZ0005S, X-ABGAS, X-TOPO-BASE, 1621 indian river gas system esb 2in air, CWZ005ST, CST001ST, CWP000ST, CWZ002ST, X_SEG02_obliner] Images: □
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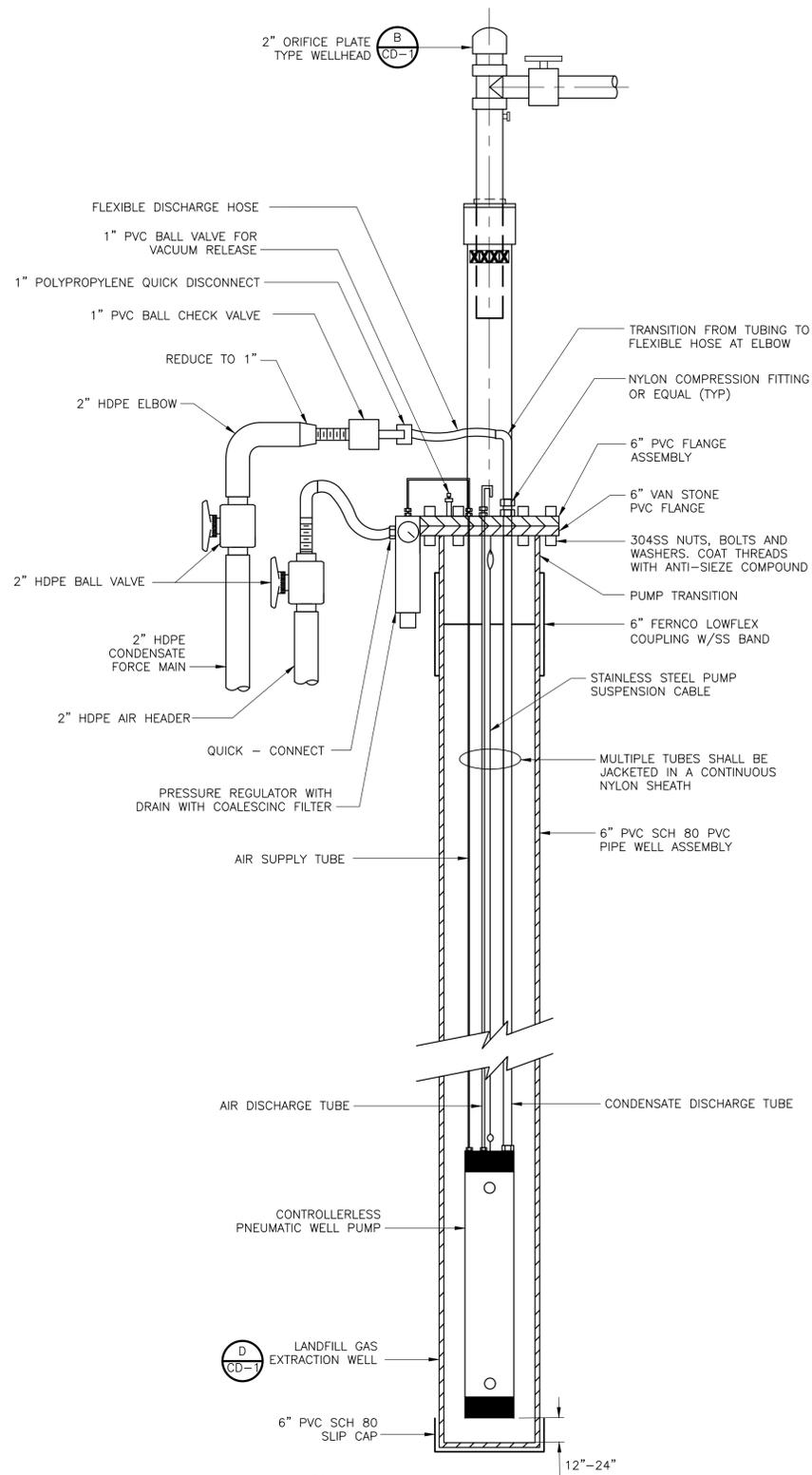
SOLID WASTE DISPOSAL DISTRICT
 INDIAN RIVER COUNTY, FLORIDA
INDIAN RIVER COUNTY LANDFILL
 SEGMENT 3 CELL 1
LANDFILL GAS SYSTEM EXPANSION

**COMPRESSED AIR
 AND CONDENSATE FORCE MAIN PLAN**

DATE: 11/24/2020
JOSEPH P. CURRO
 PE NO. 58416

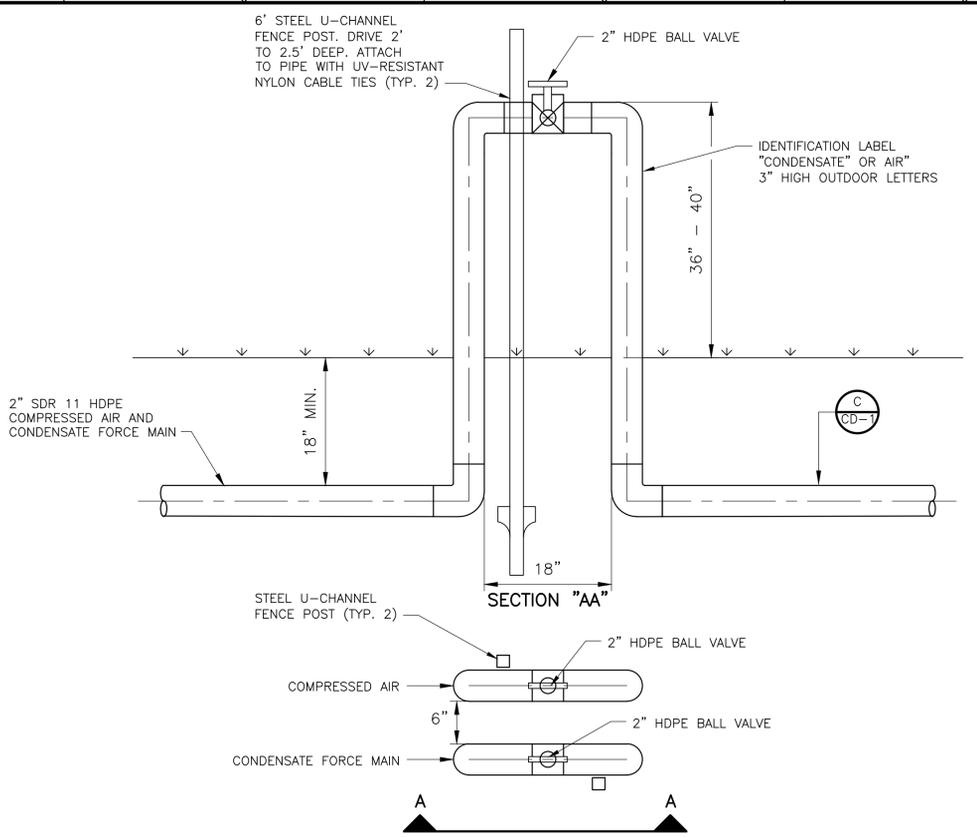
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 SHEET NO.
C-2

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- NOTES:
1. TO INSTALL PUMP ASSEMBLY, REMOVE SLIDING COMPRESSION ADAPTER AND INSTALL PUMP TRANSITION.
 2. THE CONTRACTOR SHALL PROVIDE WATER DEPTH INFORMATION FOR ALL NEW VERTICAL WELLS, SEVEN TO TEN DAYS AFTER WELL INSTALLATION IS COMPLETE. THE OWNER AND ENGINEER WILL DIRECT THE CONTRACTOR TO INSTALL PUMPS IN SELECTED VERTICAL WELLS.

WELL DEWATERING PUMP ASSEMBLY
 DETAIL A
 NTS



COMPRESSED AIR AND FORCE MAIN VALVES ASSEMBLY
 DETAIL B
 NTS

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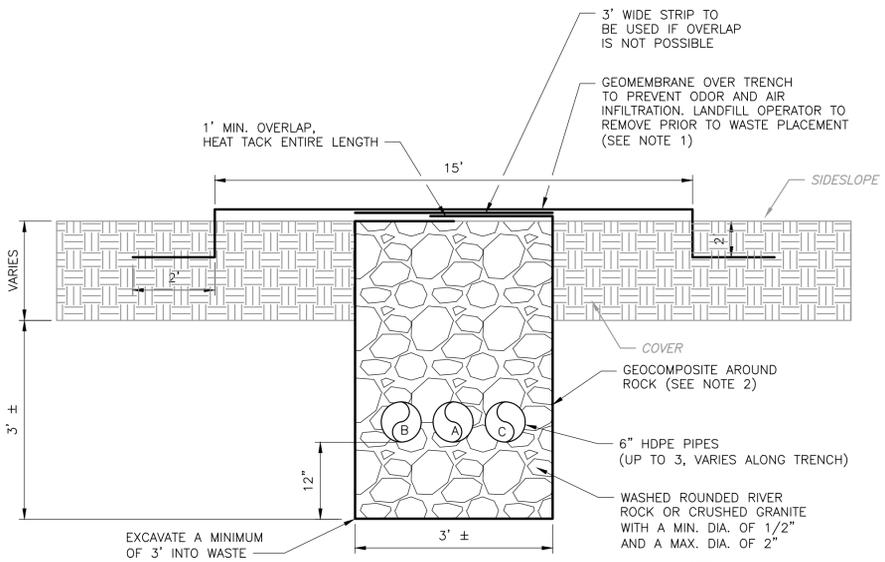


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 INDIAN RIVER COUNTY, FLORIDA
 INDIAN RIVER COUNTY LANDFILL
 SEGMENT 3 CELL 1
 LANDFILL GAS SYSTEM EXPANSION

LANDFILL GAS SYSTEM
 DETAILS II
 CD-2

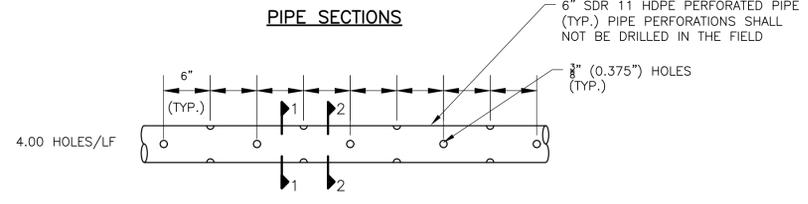
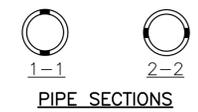
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 FILE NAME: CD02GSDT.DWG
 SHEET NO.
 CD-2
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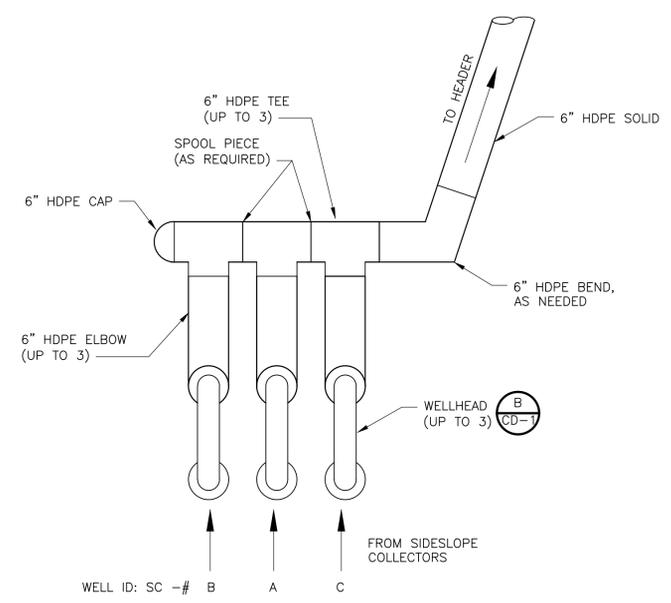


- NOTE:**
- FOR THE GEOMEMBRANE, THE OWNER WILL PROVIDE APPROX. 2,800-FT OF 60 MIL HDPE LINER FOR THE CONTRACTOR TO USE (ROLLS ARE ON-SITE AND ARE APPROX. 23-FT WIDE). CONTRACTOR SHALL PROVIDE ADDITIONAL 40 MIL TEXTURED HDPE GEOMEMBRANE AS NEEDED.
 - THE OWNER WILL PROVIDE GEOCOMPOSITE MATERIAL (ROLLS OF 175 MIL W/ 6-OZ. GEOTEXTILE AREA AVAILABLE ON SITE AND EACH ROLL IS APPROX. 15-FT WIDE AND 270-FT LONG).

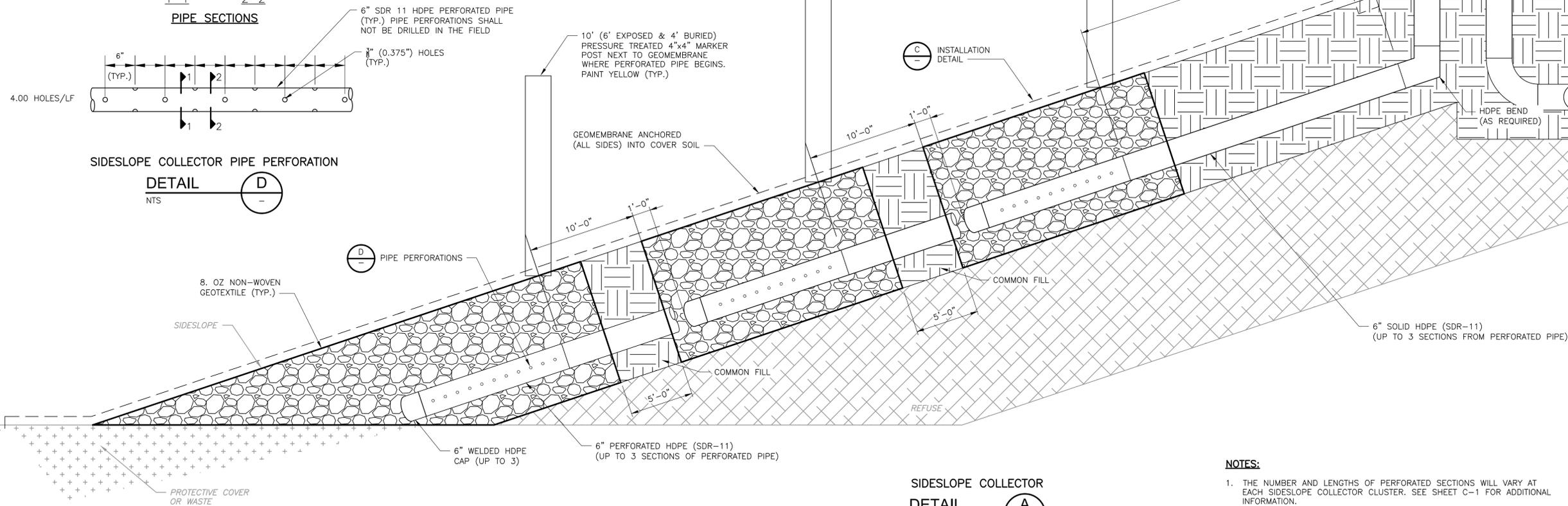
SIDESLOPE COLLECTOR INSTALLATION DETAIL
 DETAIL C
 NTS



SIDESLOPE COLLECTOR PIPE PERFORATION
 DETAIL D
 NTS

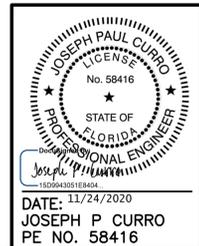


SIDESLOPE COLLECTOR WELLHEADS MANIFOLD
 DETAIL B
 NTS



SIDESLOPE COLLECTOR
 DETAIL A
 NTS

- NOTES:**
- THE NUMBER AND LENGTHS OF PERFORATED SECTIONS WILL VARY AT EACH SIDESLOPE COLLECTOR CLUSTER. SEE SHEET C-1 FOR ADDITIONAL INFORMATION.
 - FOR CLARITY, SOME SECTIONS OF SOLID PIPE (THAT ARE TO BE INSTALLED NEXT TO PERFORATED PIPE) ARE NOT SHOWN.



DATE: 11/24/2020
 PROJECT NO. 6706-250111
 FILE NAME: CD03GSDT.DWG
 SHEET NO. CD-3
 ISSUED FOR BID

DESIGNED BY: C. STOWERS
 DRAWN BY: A. MAHDI
 SHEET CHK'D BY: K. WESTERLUND
 CROSS CHK'D BY: D. HIGHTOWER
 APPROVED BY: J. CURRO
 DATE: NOVEMBER 2020



SOLID WASTE DISPOSAL DISTRICT
 INDIAN RIVER COUNTY, FLORIDA
 INDIAN RIVER COUNTY LANDFILL
 SEGMENT 3 CELL 1
 LANDFILL GAS SYSTEM EXPANSION

LANDFILL GAS SYSTEM
 DETAILS III

REV. NO.	DATE	DRWN	CHKD	REMARKS