

Construction Drawings For

Central County Solid Waste Disposal Complex

Sarasota County

Phase 1 - Sequence 1 Landfill Gas Collection and Control System

Project No. 95215 BID No. 09803CS

Nokomis, Florida

Record Drawings June, 2010

INDEX OF DRAWINGS

GENERAL

00G-00 COVER SHEET

00G-01 GENERAL NOTES

00C-01 EXISTING CONDITIONS

00C-02 PHASE 1 - LANDFILL GAS EXTRACTION WELL LAYOUT 00C-03 PHASE 1 - GAS SYSTEM PIPING LAYOUT

00C-03A PHASE 1 - GAS SYSTEM PIPING LAYOUT - AS-BUILT SURVEY BY HYATT 00C-03B PHASE 1 - GAS SYSTEM PIPING LAYOUT - AS-BUILT SURVEY BY HYATT

00C-03C PHASE 1 - GAS SYSTEM PIPING LAYOUT - AS-BUILT SURVEY BY HYATT

HDR

200 W. Forsyth St

Jacksonville, FL 32202

Certificate of Authorization No. 4213

00C-03D PHASE 1 - GAS SYSTEM PIPING LAYOUT - AS-BUILT SURVEY BY HYATT 00C-03E PHASE 1 - GAS SYSTEM PIPING LAYOUT - AS-BUILT SURVEY BY HYATT

00C-04 HEADER TO FLARE STATION - PLAN & PROFILE

00C-04 HEADER TO FLARE STATION - PLAN & PROFILE - AS-BUILT SURVEY BY HYATT 00C-05 FLARE STATION SITE PLAN - AS-BUILT SURVEY BY HYATT

00C-06 FLARE STATION LAYOUT

00C-07 FLARE STATION P&ID 00C-07A FLARE STATION P&ID BY SHAW

00C-07B FLARE STATION P&ID LEGEND BY SHAW

00D-01 EXTRACTION WELL DETAILS AND WELL SCHEDULE

00D-02 WELLHEAD AND CONFIGURATION DETAILS

00D-03 GENERAL DETAILS

00D-04 VALVE PIT DETAILS 00D-05 ACCESS ROAD CROSSING AND BOLLARD DETAILS

00D-06 U-TRAP LAYOUT & DETAILS

00D-06A U-TRAP LAYOUT & DETAILS - AS-BUILT SURVEY BY HYATT

00D-07 CONDENSATE KNOCKOUT POT DETAILS

00D-08 EROSION CONTROL LAYOUT

00D-09 EROSION CONTROL DETAILS



THIS DOCUMENT HAS BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS AND DEPICTS THE CONTRACTOR'S RECORD OF INSTALLATIONS. HDR ENGINEERING, INC. DOES NOT WARRANT THE ACCURACY OF SUCH INFORMATION OR COMPLETENESS OR FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED INTO THIS DOCUMENT BASED ON THE

> CLIFFORD G. KOENIG, P.E. FLORIDA P.E. NO. 64078 HDR ENGINEERING, INC.







CORIDA

CHECKED BY C. LEBRON, P.E.

PROJECT NUMBER 101628

ISSUED FOR CONSTRUCTION

SARASOTA COUNTY

SHEET

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FLORIDA

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HDR Engineering, Inc.

ISSUED FOR BID

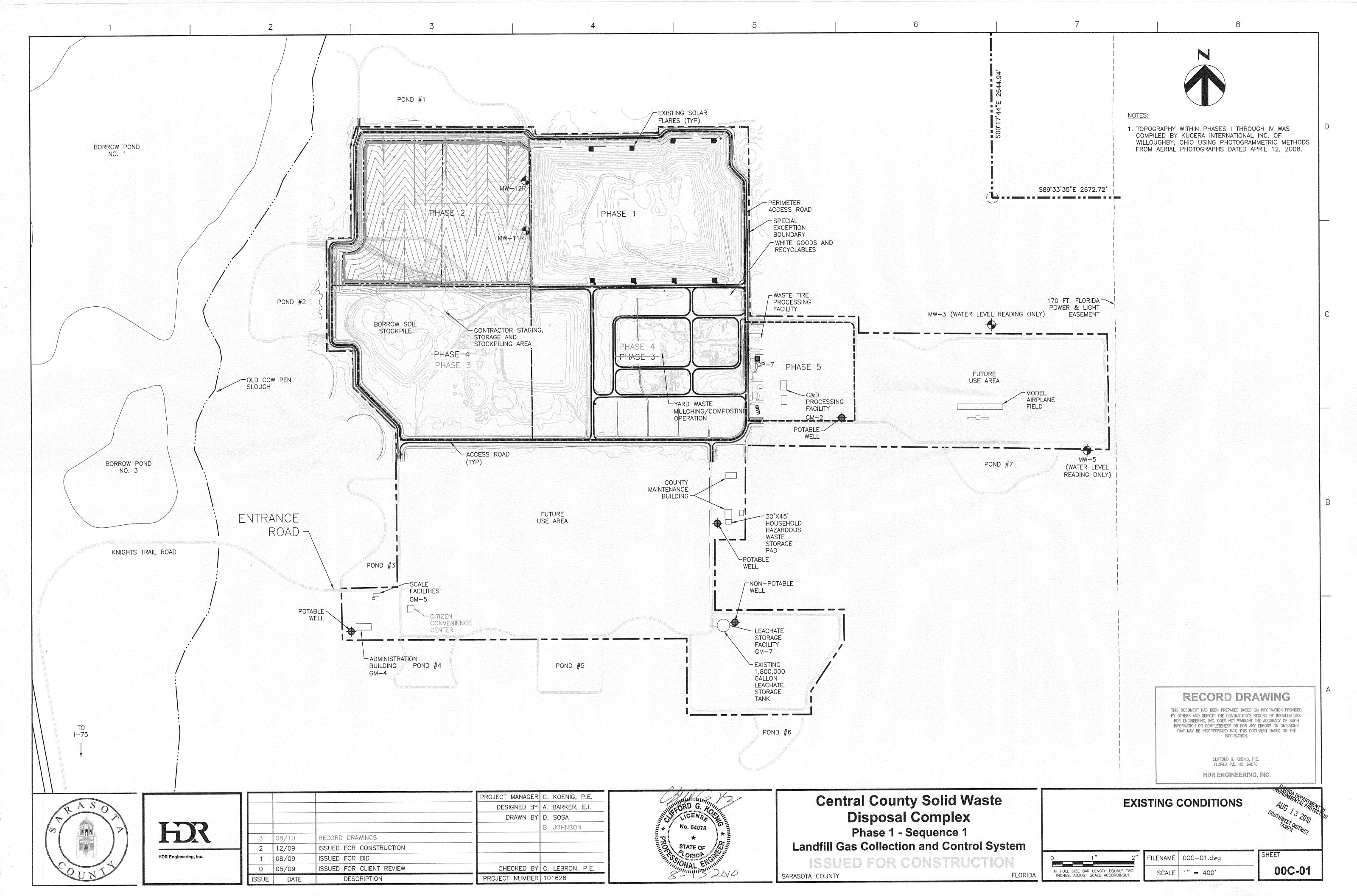
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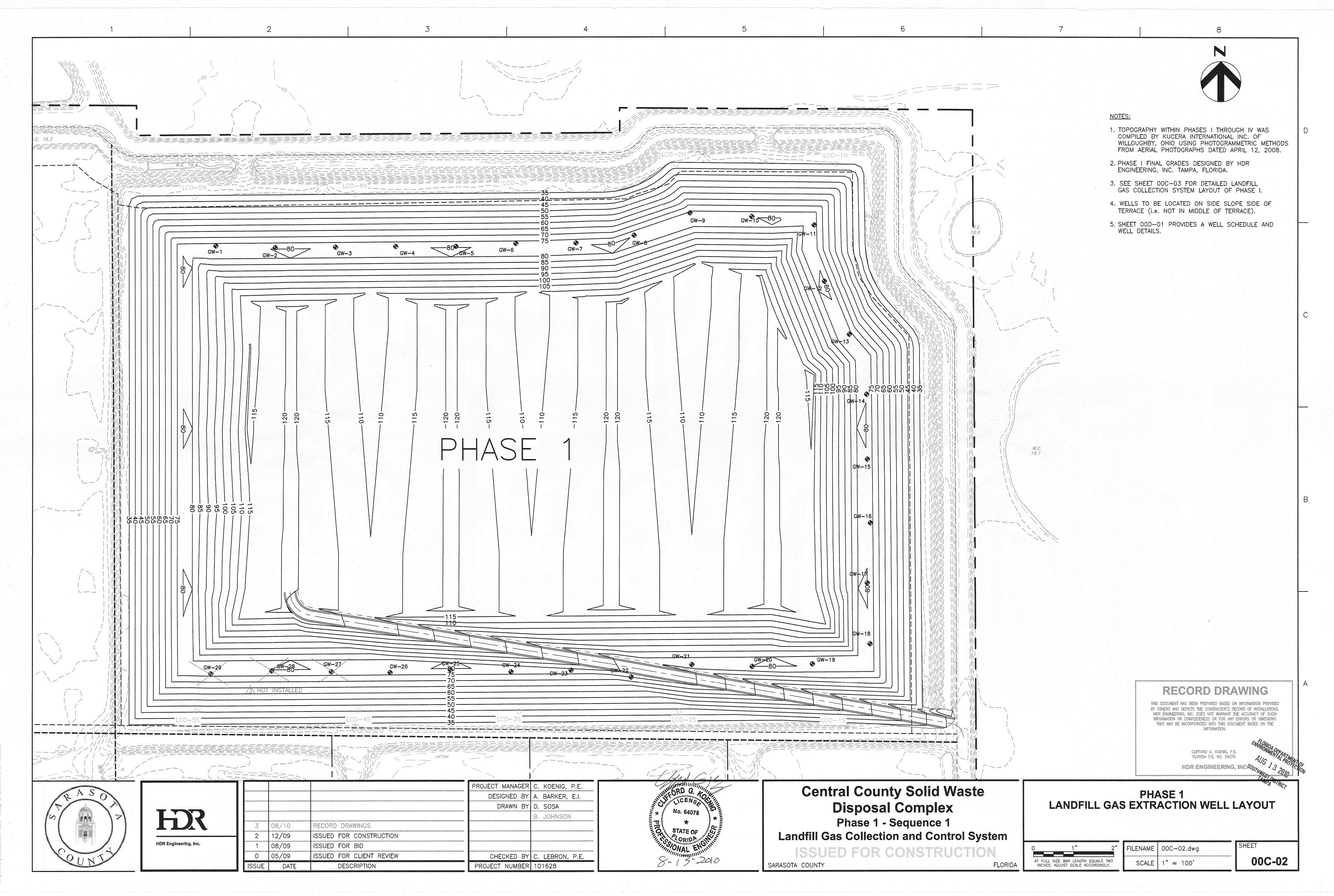
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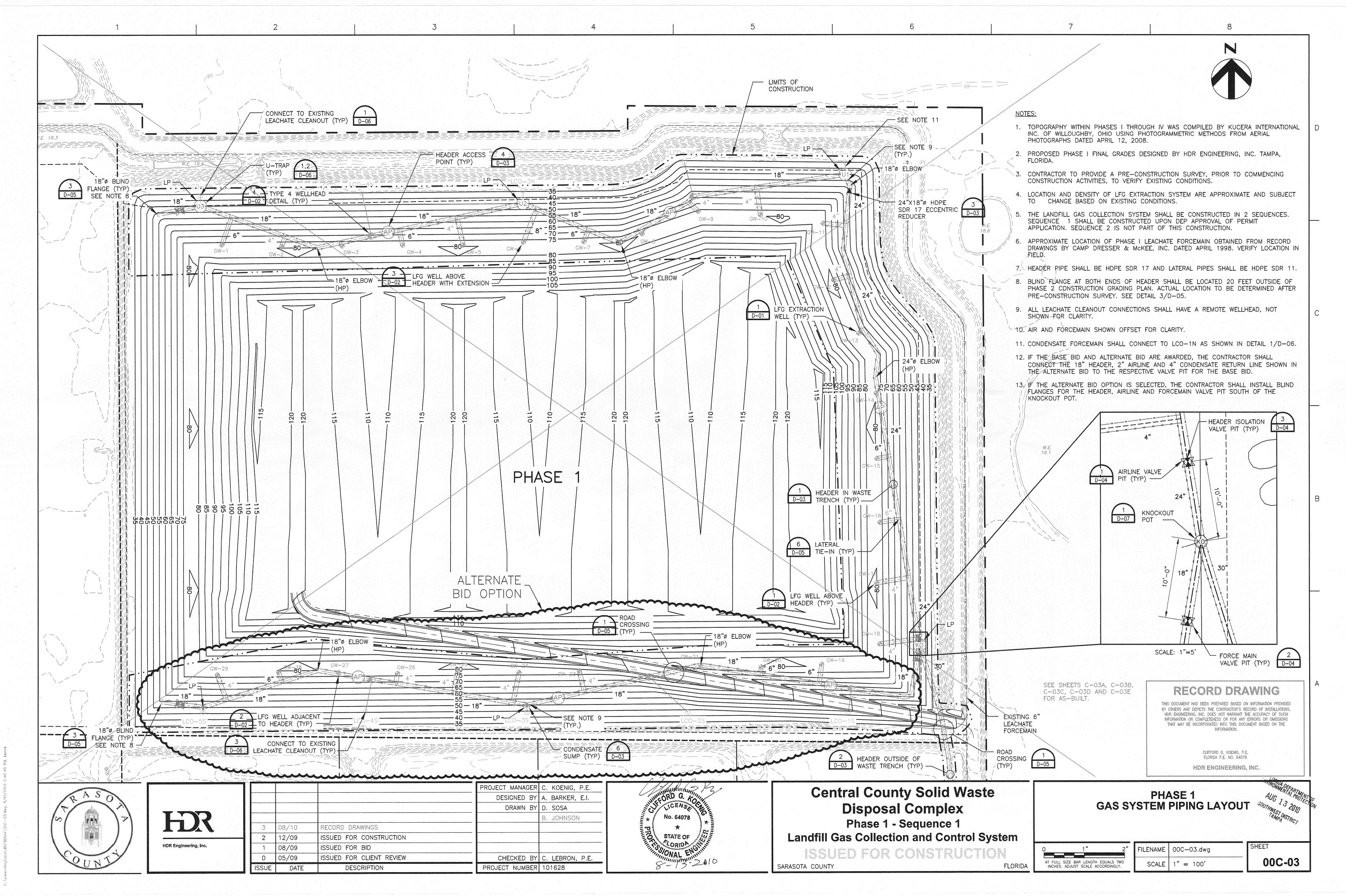
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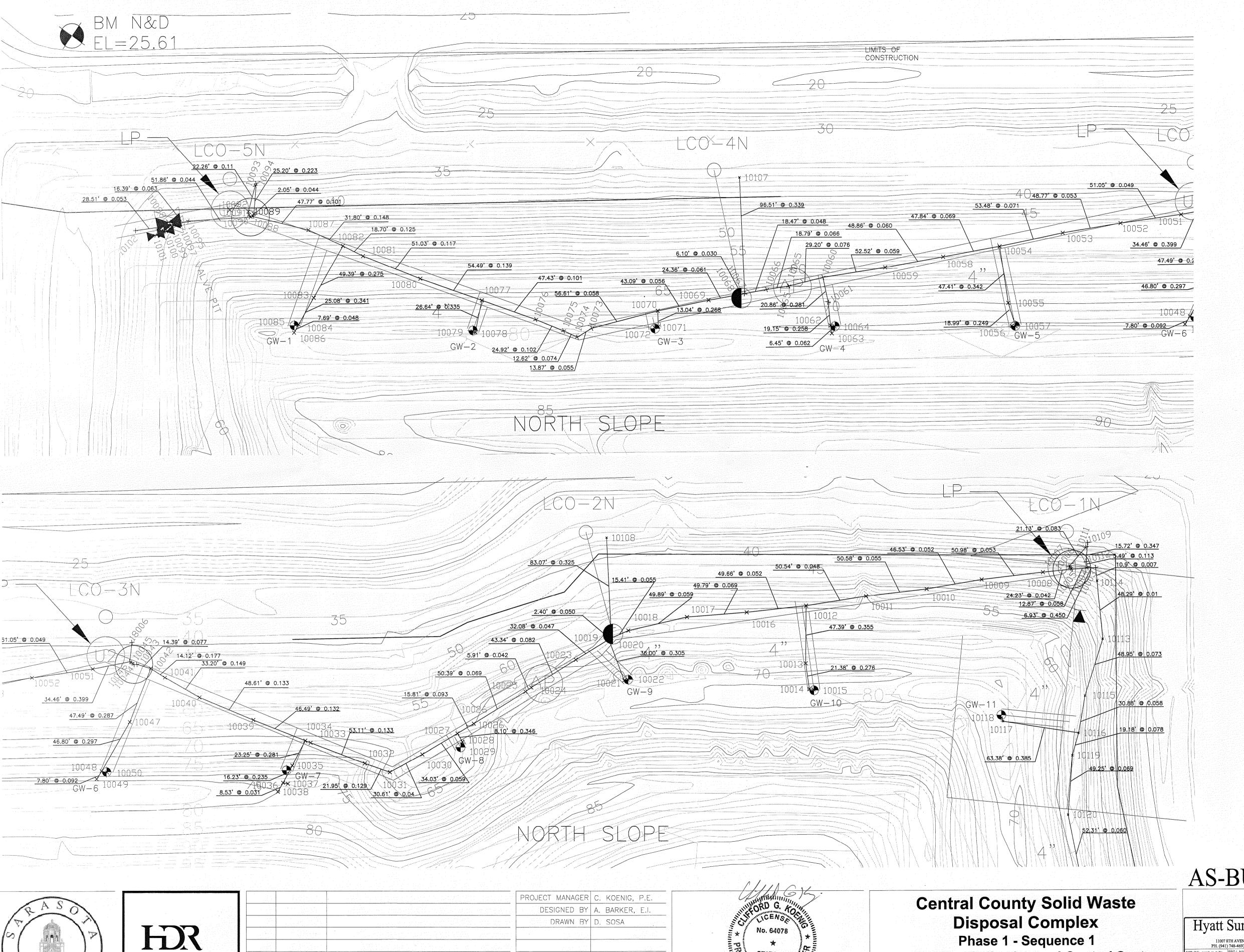


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PROJECT NUMBER 101628



NOTES:

- 1. TOPOGRAPHY WITHIN PHASES I THROUGH IV WAS COMPILED BY KUCERA INTERNATIONAL INC. OF WILLOUGHBY, OHIO USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS DATED APRIL 12, 2008.
- 2. PROPOSED PHASE I FINAL GRADES DESIGNED BY HDR ENGINEERING, INC. TAMPA, FLORIDA.
- 3. CONTRACTOR TO PROVIDE A PRE-CONSTRUCTION SURVEY, PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, TO VERIFY EXISTING CONDITIONS.
- 4. LOCATION AND DENSITY OF LFG EXTRACTION SYSTEM ARE APPROXIMATE AND SUBJECT TO CHANGE BASED ON EXISTING CONDITIONS.
- 5. THE LANDFILL GAS COLLECTION SYSTEM SHALL BE CONSTRUCTED IN 2 SEQUENCES. SEQUENCE 1 SHALL BE CONSTRUCTED UPON DEP APPROVAL OF PERMIT APPLICATION. SEQUENCE 2 IS NOT PART OF THIS CONSTRUCTION.
- 6. APPROXIMATE LOCATION OF PHASE I LEACHATE FORCEMAIN OBTAINED FROM RECORD DRAWINGS BY CAMP DRESSER & McKEE, INC. DATED APRIL 1998. VERIFY LOCATION IN FIELD.
- 7. HEADER PIPE SHALL BE HDPE SDR 17 AND LATERAL PIPES SHALL BE HDPE SDR 11.
- 8. BLIND FLANGE AT BOTH ENDS OF HEADER SHALL BE LOCATED 20 FEET OUTSIDE OF PHASE 2 CONSTRUCTION GRADING PLAN. ACTUAL LOCATION TO BE DETERMINED AFTER PRE-CONSTRUCTION SURVEY. SEE DETAIL 3/D-05.
- 9. ALL LEACHATE CLEANOUT CONNECTIONS SHALL HAVE A REMOTE WELLHEAD, NOT SHOWN FOR CLARITY.
- 10. AIR AND FORCEMAIN SHOWN OFFSET FOR CLARITY.
- 11. CONDENSATE FORCEMAIN SHALL CONNECT TO LCO-1N AS SHOWN IN DETAIL 1/D-06.
- 12. IF THE BASE BID AND ALTERNATE BID ARE AWARDED, THE CONTRACTOR SHALL CONNECT THE 18" HEADER, 2" AIRLINE AND 4" CONDENSATE RETURN LINE SHOWN IN THE ALTERNATE BID TO THE RESPECTIVE VALVE PIT FOR THE BASE BID.
- 13. IF THE ALTERNATE BID OPTION IS SELECTED, THE CONTRACTOR SHALL INSTALL BLIND FLANGES FOR THE HEADER, AIRLINE AND FORCEMAIN VALVE PIT SOUTH OF THE KNOCKOUT POT.

SURVEY NOTES:

1. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE

3.PLAN INFORMATION SHOWN HEREON TAKEN FROM THE CONSTRUCTION PLANS FOR THE CENTRAL COUNTY SOLID WASTE

AS-BUILT SURVEY

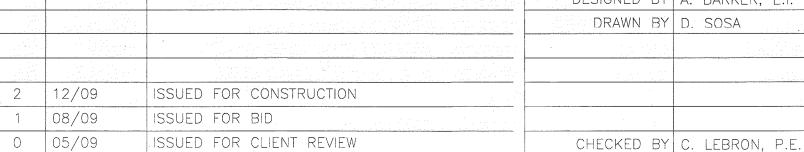
PHASE 1 GAS SYSTEM PIPING LAYOUT

Hyatt Survey Services, Inc.

Geographic Data Specialists

AT FULL SIZE BAR LENGTH EQUALS TWO INCHES. ADJUST SCALE ACCORDINGLY.

00C-03A

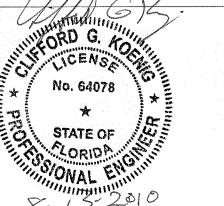


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HDR Engineering, Inc.

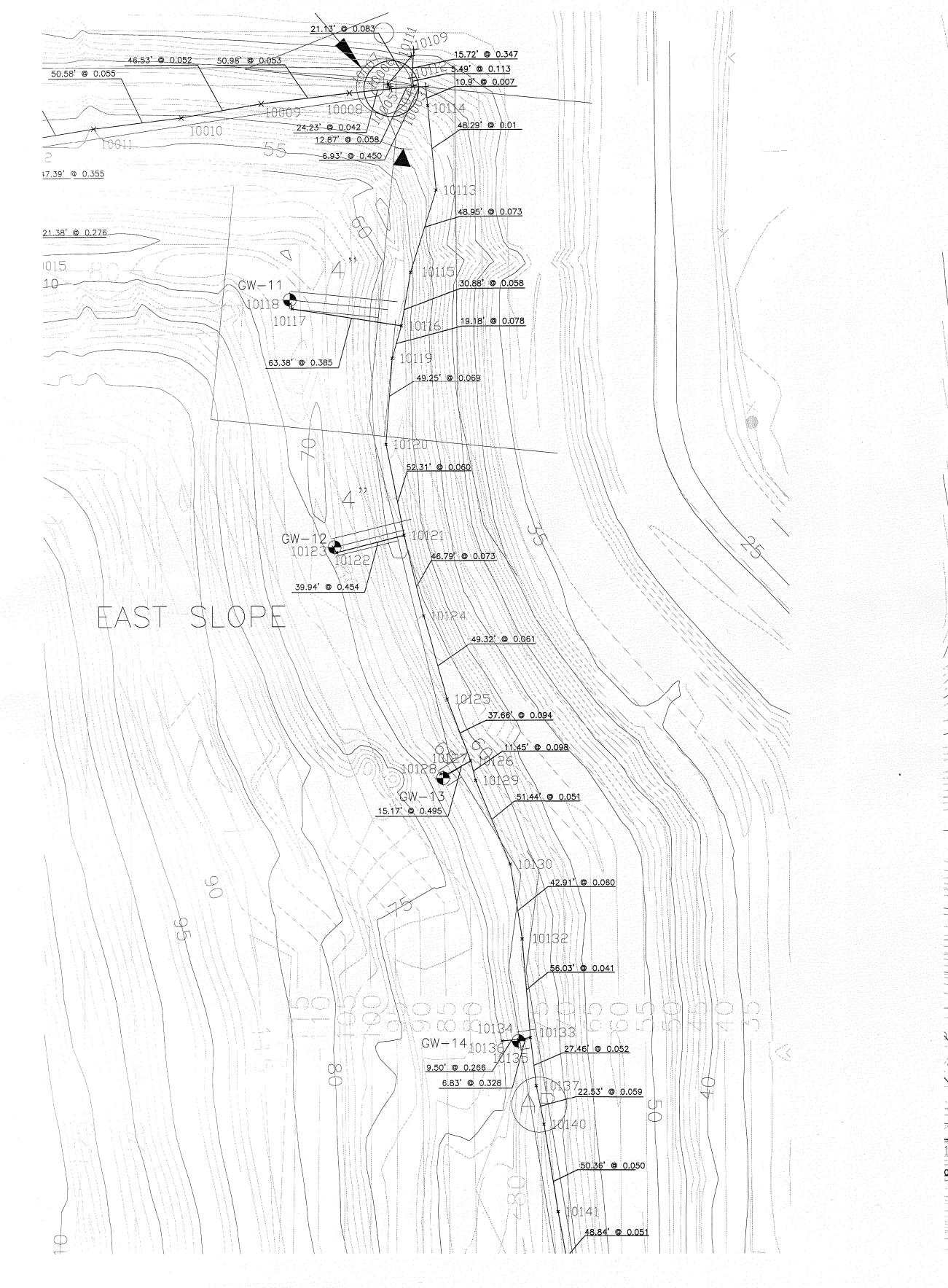
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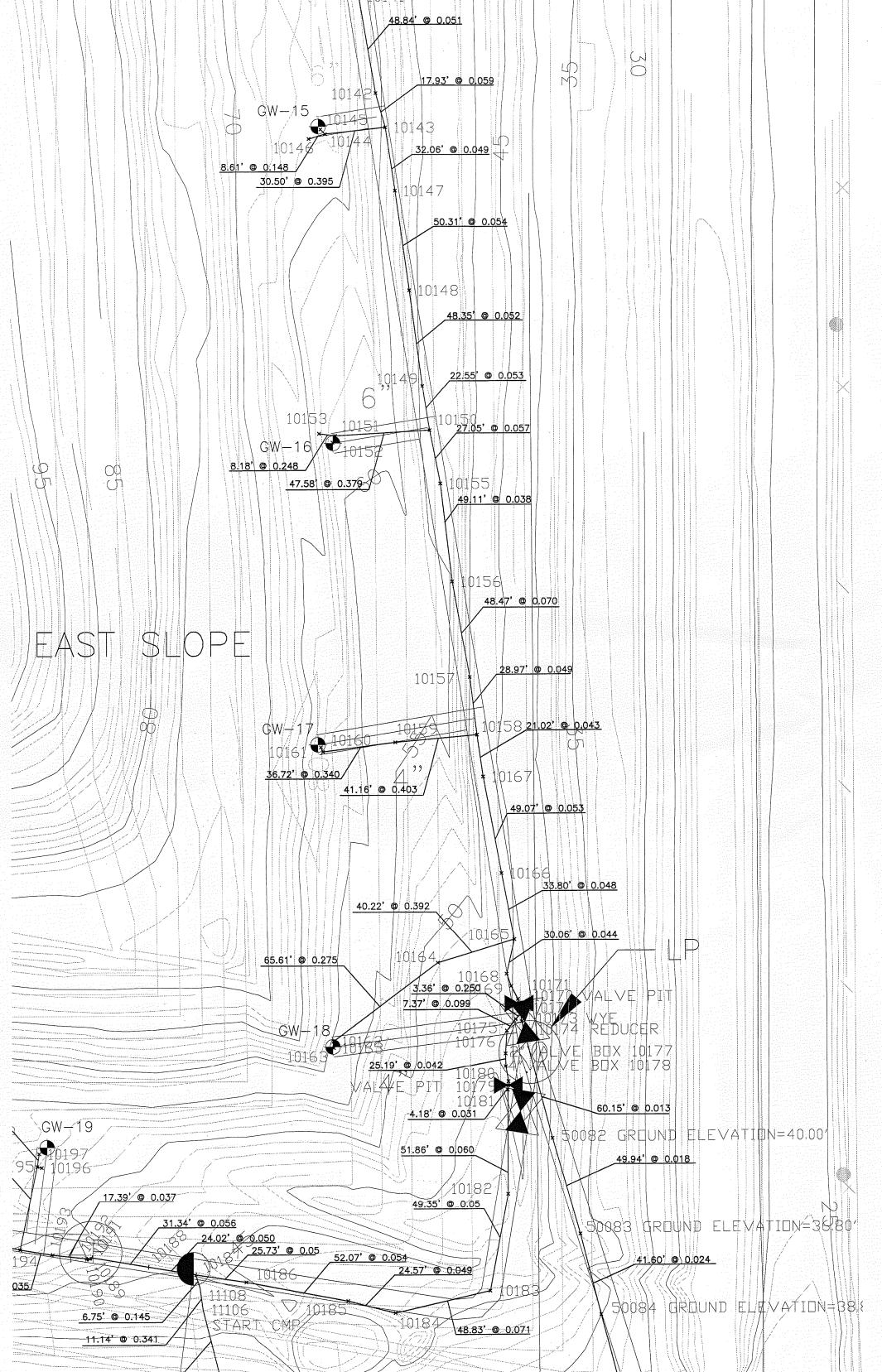
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SARASOTA COUNTY

Disposal Complex Phase 1 - Sequence 1 **Landfill Gas Collection and Control System** ISSUED FOR CONSTRUCTION





SARASOTA COUNTY



NOTE

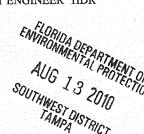
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SURVEY NOTES:

1. THIS SURVEY DRAWING WAS PREPARED FOR THE EXCLUSIVE USE OF THE PARTY OR PARTIES CERTIFIED TO BELOW FOR THE EXPRESS PURPOSE STATED HEREON AND/OR CONTAINED IN THE CONTRACT BETWEEN HYATT SURVEY SERVICES, INC. AND THE CLIENT FOR THIS PROJECT. COPYING, DISTRIBUTING, AND/OR USING THIS DRAWING, I WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT WRITTEN CONSENT FROM HYATT SURVEY SERVICES, INC. IS STRICTLY PROHIBITED, AND RENDERS THE SURVEYORS CERTIFICATION, SIGNATURE, AND SEAL NULL AND VOIL ANY QUESTIONS CONCERNING THE CONTENT OR PURPOSE OF THIS DRAWING SHOULD BE DIRECTED TO HYATT SURVEY SERVICES, INC.

2. ELEVATIONS SHOWN HEREON ARE BASED ON BENCHMARKS AS SHOWN IN THE DIGITAL FILES FOR THE CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX AS SUPPLIED BY THE PROJECT ENGINEER "HDR INC."

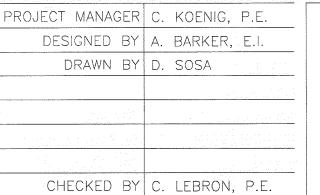
3.PLAN INFORMATION SHOWN HEREON TAKEN FROM THE CONSTRUCTION PLANS FOR THE CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX AS SUPPLIED BY THE PROJECT ENGINEER "HDR



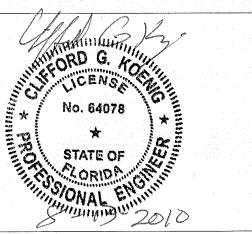




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PROJECT NUMBER 101628



Central County Solid Waste
Disposal Complex
Phase 1 - Sequence 1
Landfill Gas Collection and Control System
ISSUED FOR CONSTRUCTION



PHASE 1
GAS SYSTEM PIPING LAYOUT

Hyatt Survey Services, Inc.

Geographic Data Specialists

11007 8TH AVENUE EAST BRADENTON, FLORIDA 34212

PH. (941) 748-4693 FAX (941) 744-1643 LB No.: 7203

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TOPOGRAPHIC SURVEY

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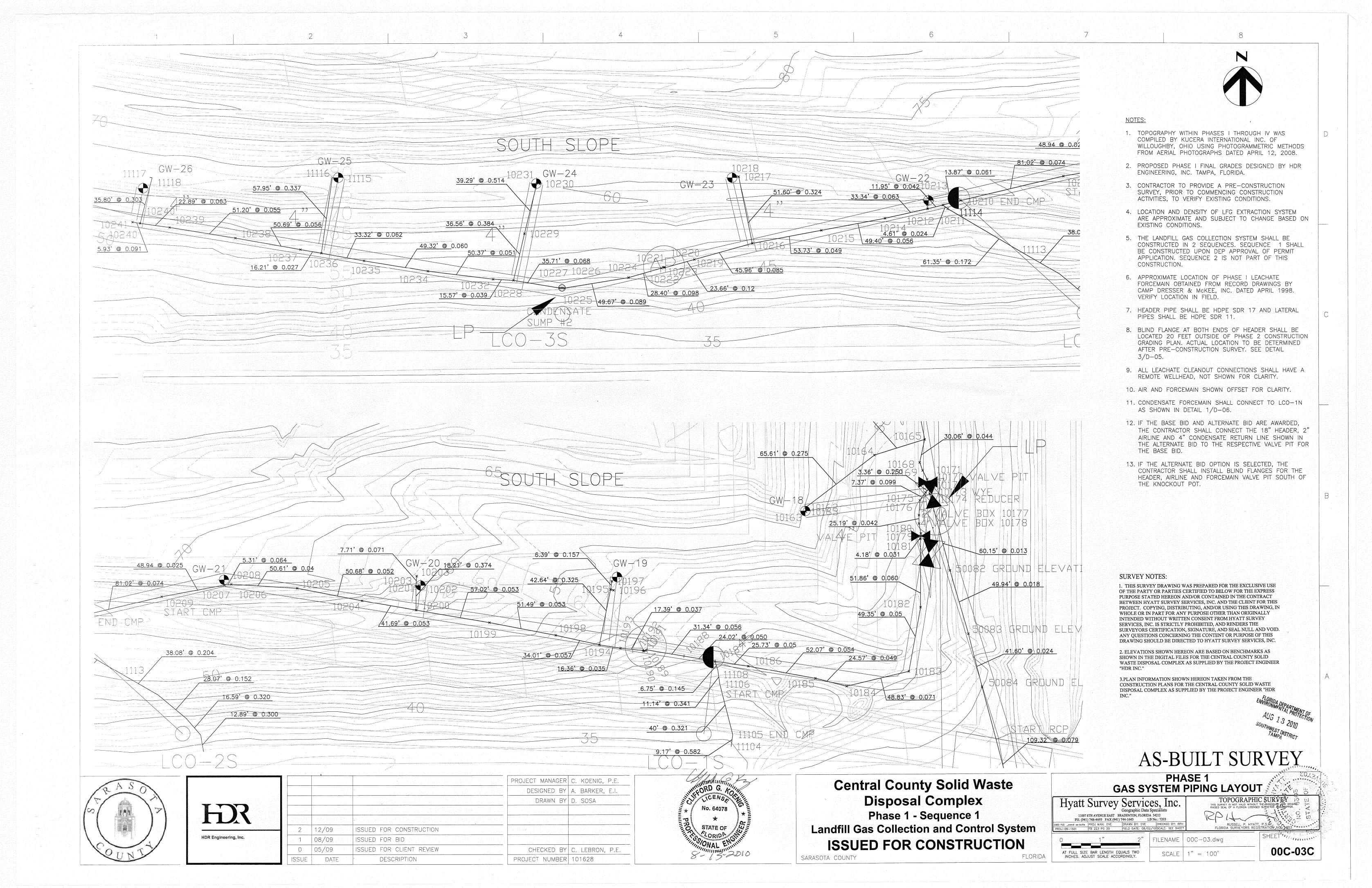
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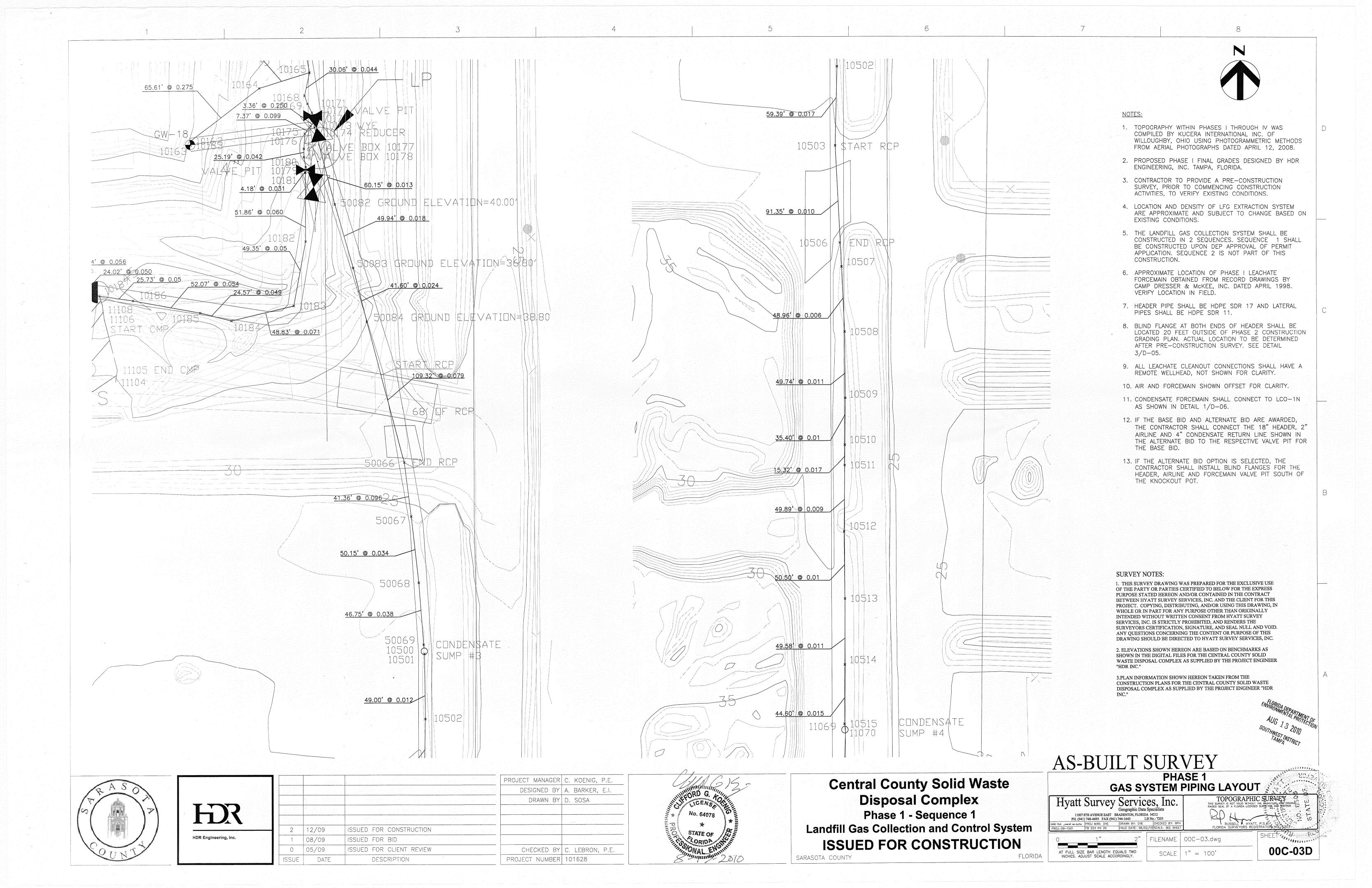
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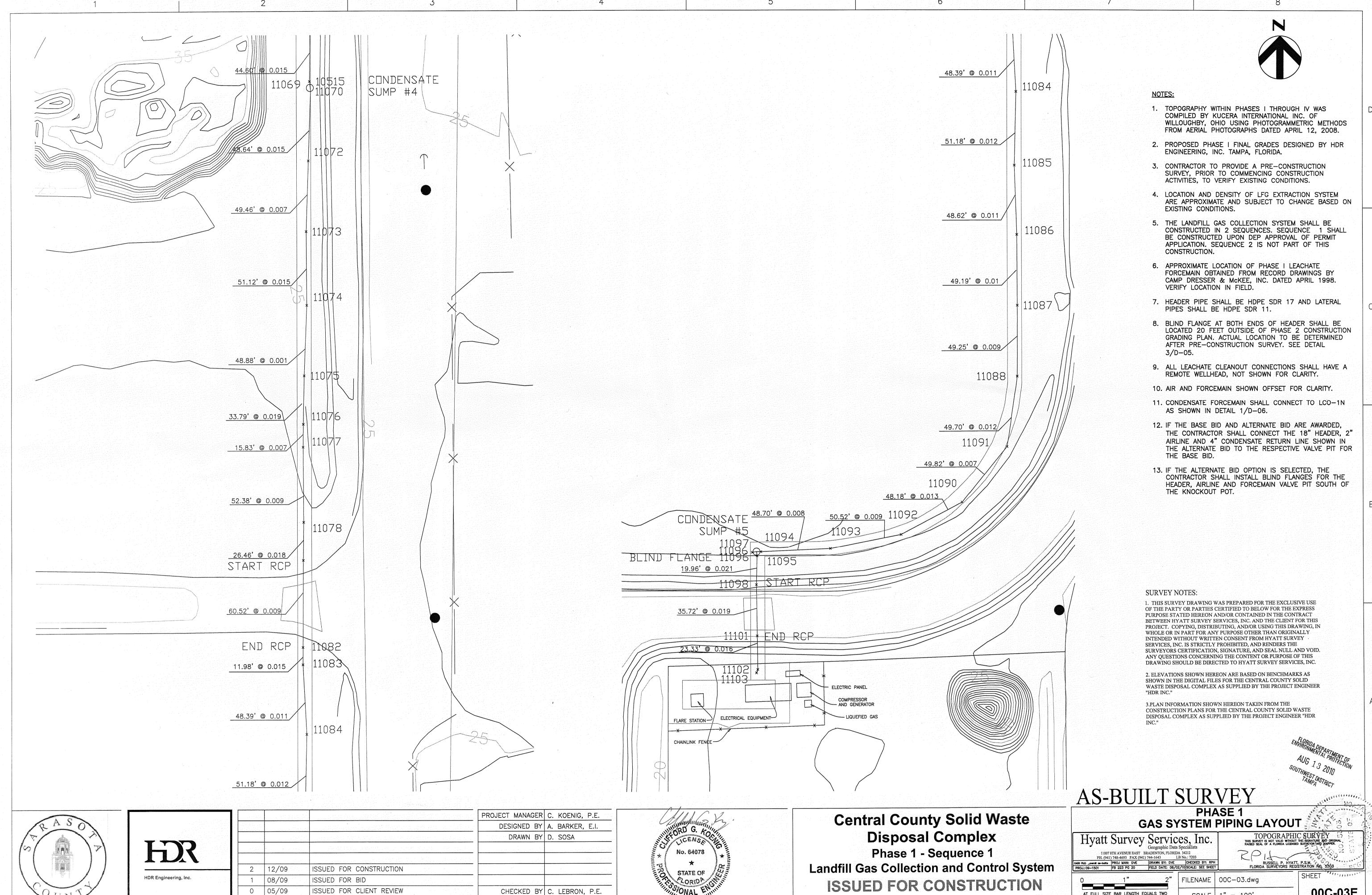
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SCALE 1" = 100'

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PROJECT NUMBER 101628

ISSUE DATE

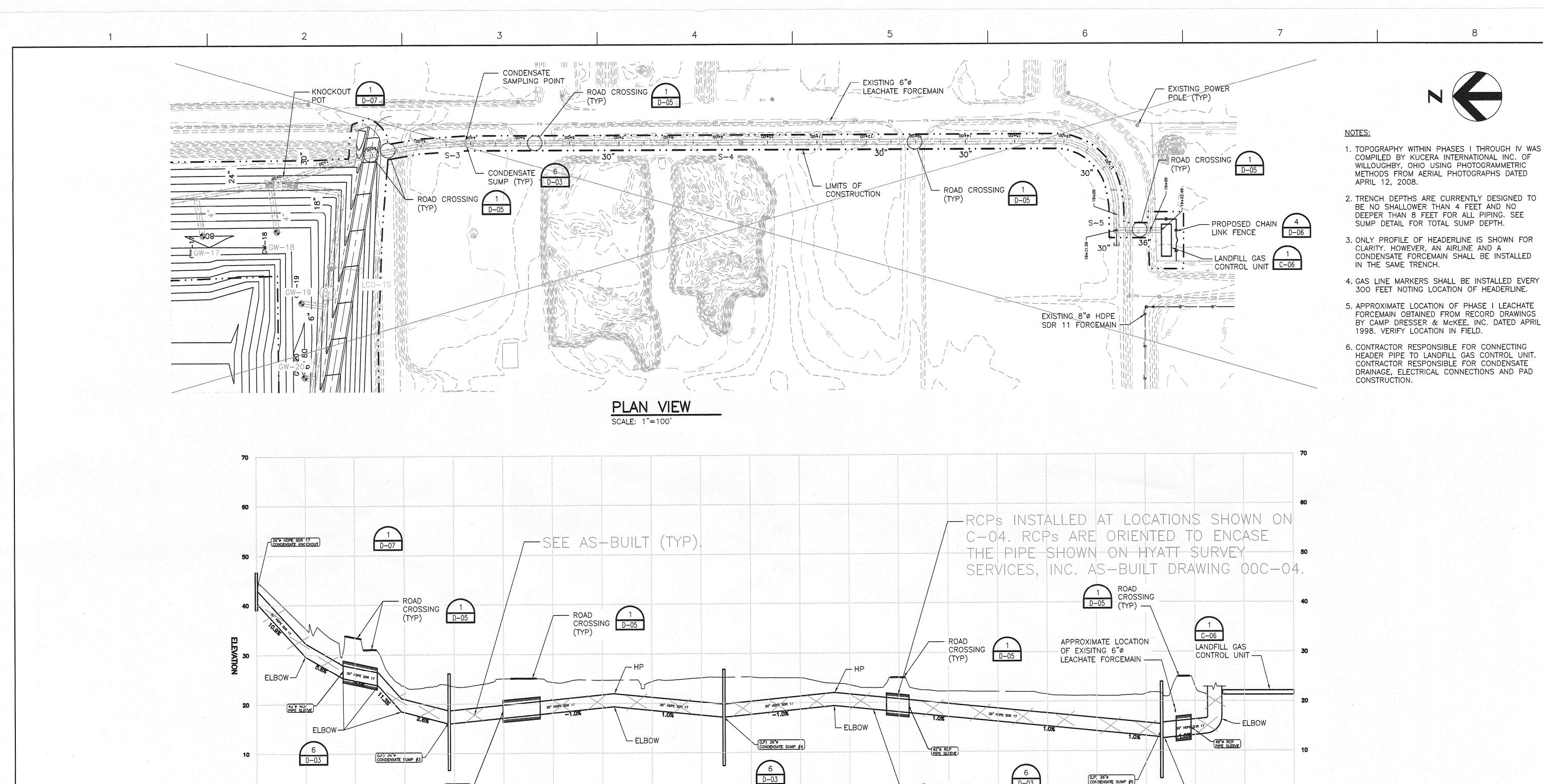
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SARASOTA COUNTY

AT FULL SIZE BAR LENGTH EQUALS TWO INCHES. ADJUST SCALE ACCORDINGLY.

SCALE | 1" = 100'

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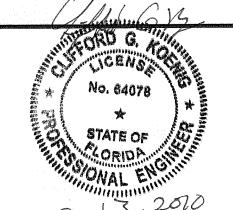
RECORD DRAWING

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CLIFFORD G. KOENIG, P.E. FLORIDA P.E. NO. 64078

HDR ENGINEERING, INC.

PROFILE VIEW
SCALE: 1"=10'V 1"=100'H



STATION

Central County Solid Waste Disposal Complex

- 30"ø HDPE SDR 17

2 D-03

LANDFILL GAS PIPING OUTSIDE OF WASTE

Phase 1 - Sequence 1 Landfill Gas Collection and Control System

(LP) 36"0 CONDENSATE SUMP #5

SARASOTA COUNTY

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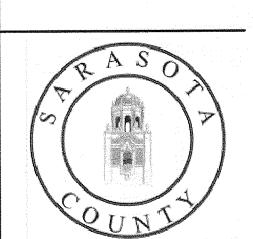
NOTE: AIRLINE/FORCEMAIN LINES NOT SHOWN FOR CLARITY.

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HEADER TO FLARE STATION PLAN & PROFILE

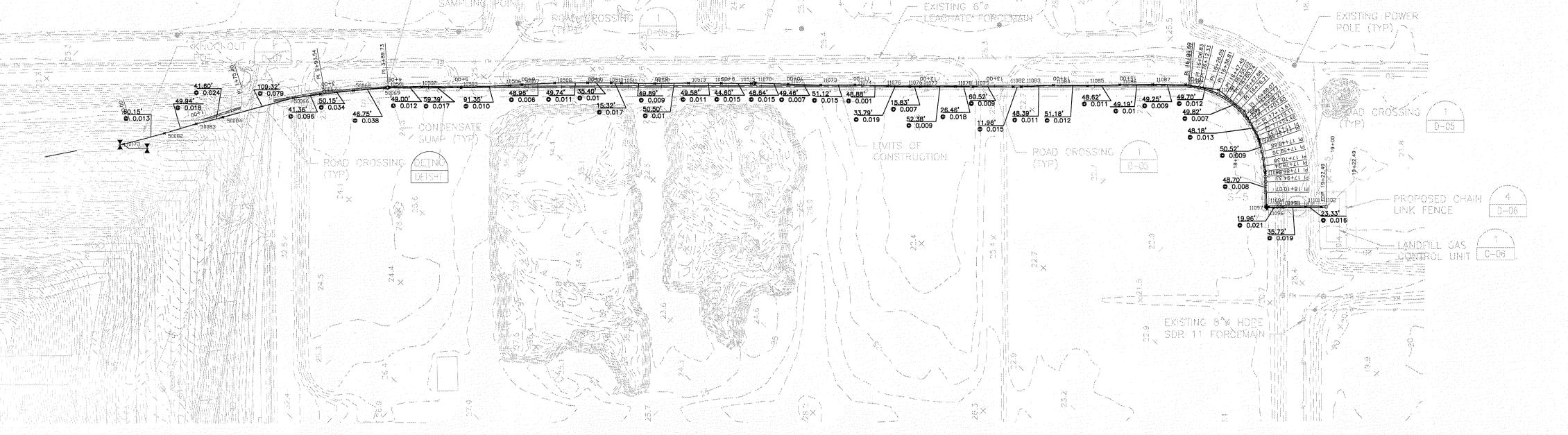
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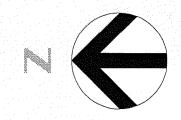


HR HDR Engineering, Inc.

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			DESIGNED BY	A. BARKER, E.I.
,			DRAWN BY	D. SOSA
				B. JOHNSON
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1	08/09	ISSUED FOR BID		
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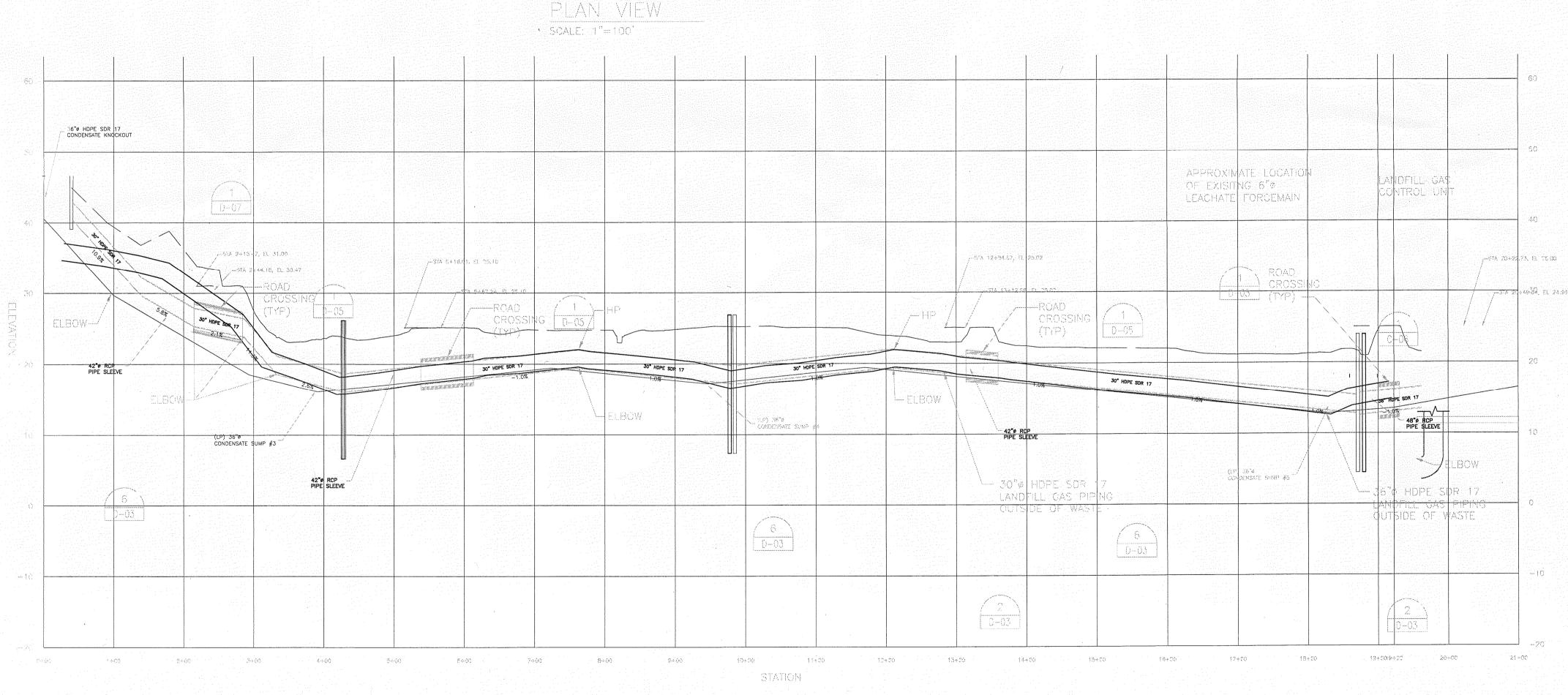
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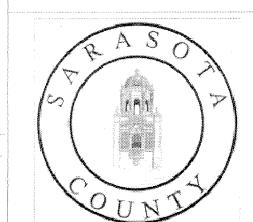
NOTE

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- 2. TRENCH DEPTHS ARE CURRENTLY DESIGNED TO BE NO SHALLOWER THAN 4 FEET AND NO DEEPER THAN 8 FEET FOR ALL PIPING. SEE SUMP DETAIL FOR TOTAL SUMP DEPTH.
- 3. ONLY PROFILE OF HEADERLINE IS SHOWN FOR CLARITY. HOWEVER, AN AIRLINE AND A CONDENSATE FORCEMAIN SHALL BE INSTALLED IN THE SAME TRENCH.
- 4. GAS LINE MARKERS SHALL BE INSTALLED EVERY 300 FEET NOTING LOCATION OF HEADERLINE.
- 5. APPROXIMATE LOCATION OF PHASE I LEACHATE FORCEMAIN OBTAINED FROM RECORD DRAWINGS BY CAMP DRESSER & McKEE, INC. DATED APRIL 1998. VERIFY LOCATION IN FIELD.
- 6. CONTRACTOR RESPONSIBLE FOR CONNECTING HEADER PIPE TO LANDFILL GAS CONTROL UNIT. CONTRACTOR RESPONSIBLE FOR CONDENSATE DRAINAGE, ELECTRICAL CONNECTIONS AND PAD CONSTRUCTION.



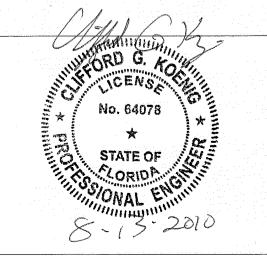
PROFILE VIEW
SCALE: 1"=10'V 1"=100'H

NOTE: AIRLINE/FORCEMAIN LINES NOT SHOWN FOR CLARITY.





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			DESIGNED BY	A. BARKER, E.I.
			PROJECT MANAGER	C. KOENIG. P.É.
		HM (1994)		



Central County Solid Waste
Disposal Complex
Phase 1 - Sequence 1
Landfill Gas Collection and Control System
ISSUED FOR CONSTRUCTION

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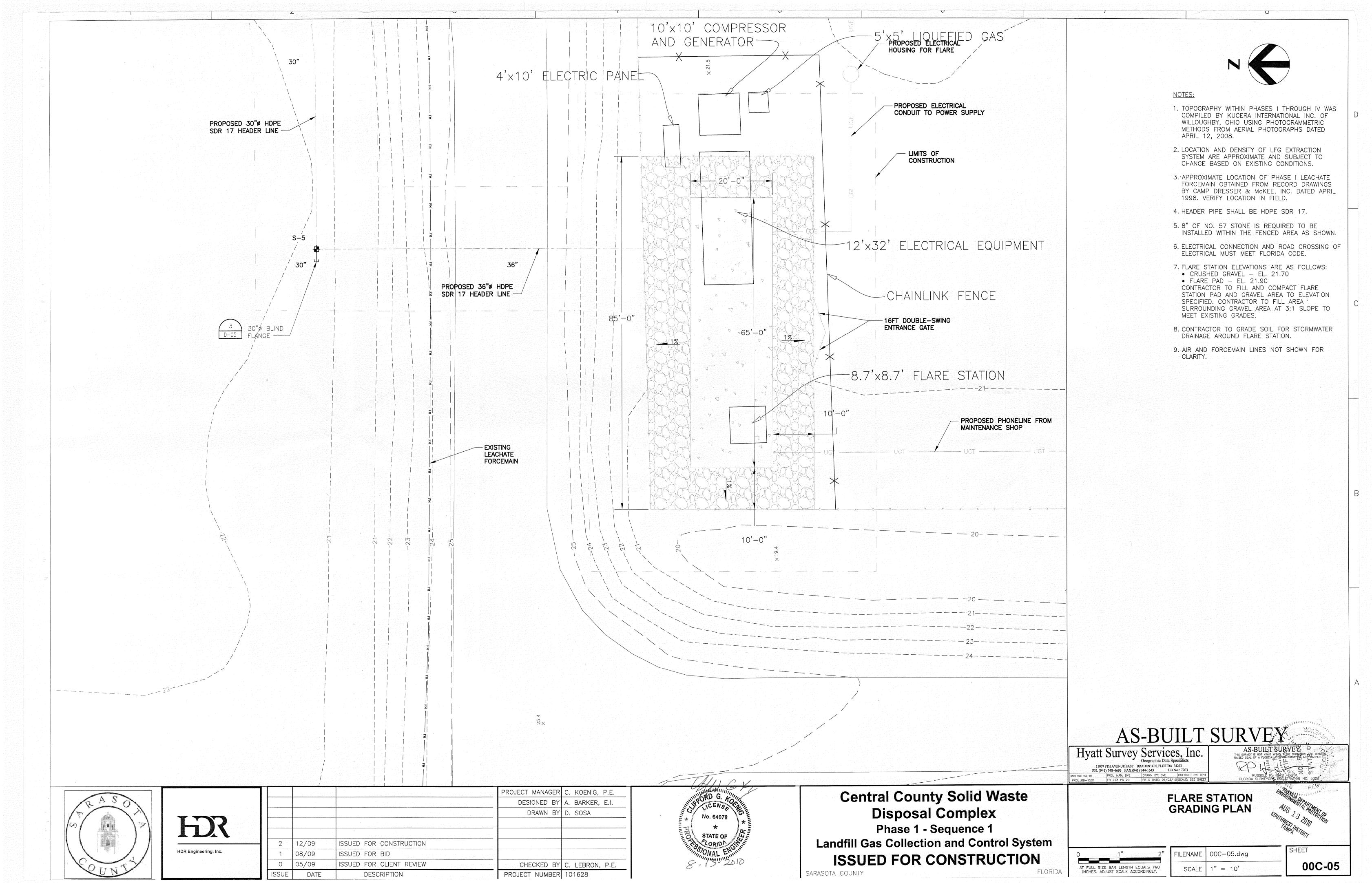
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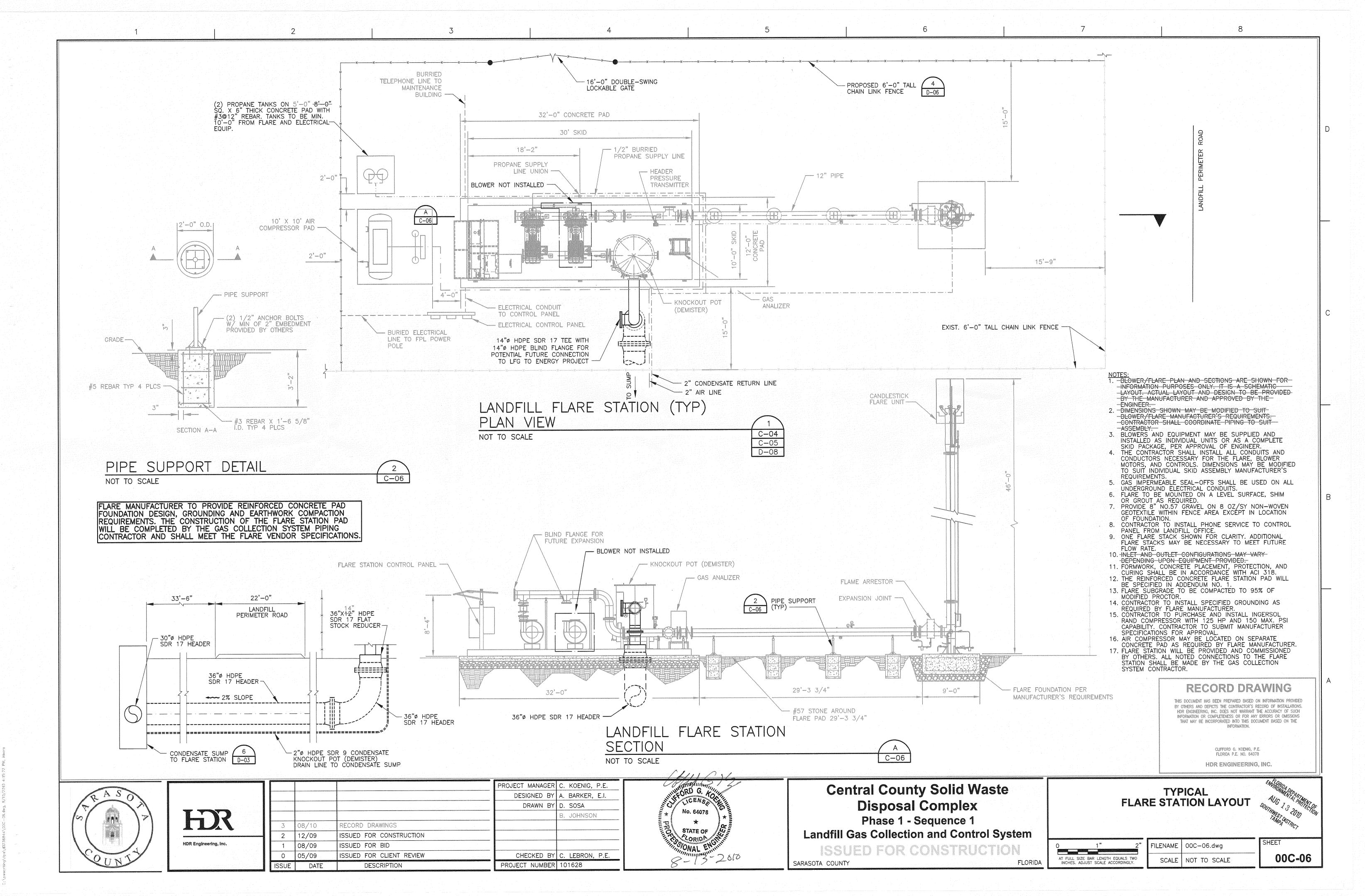
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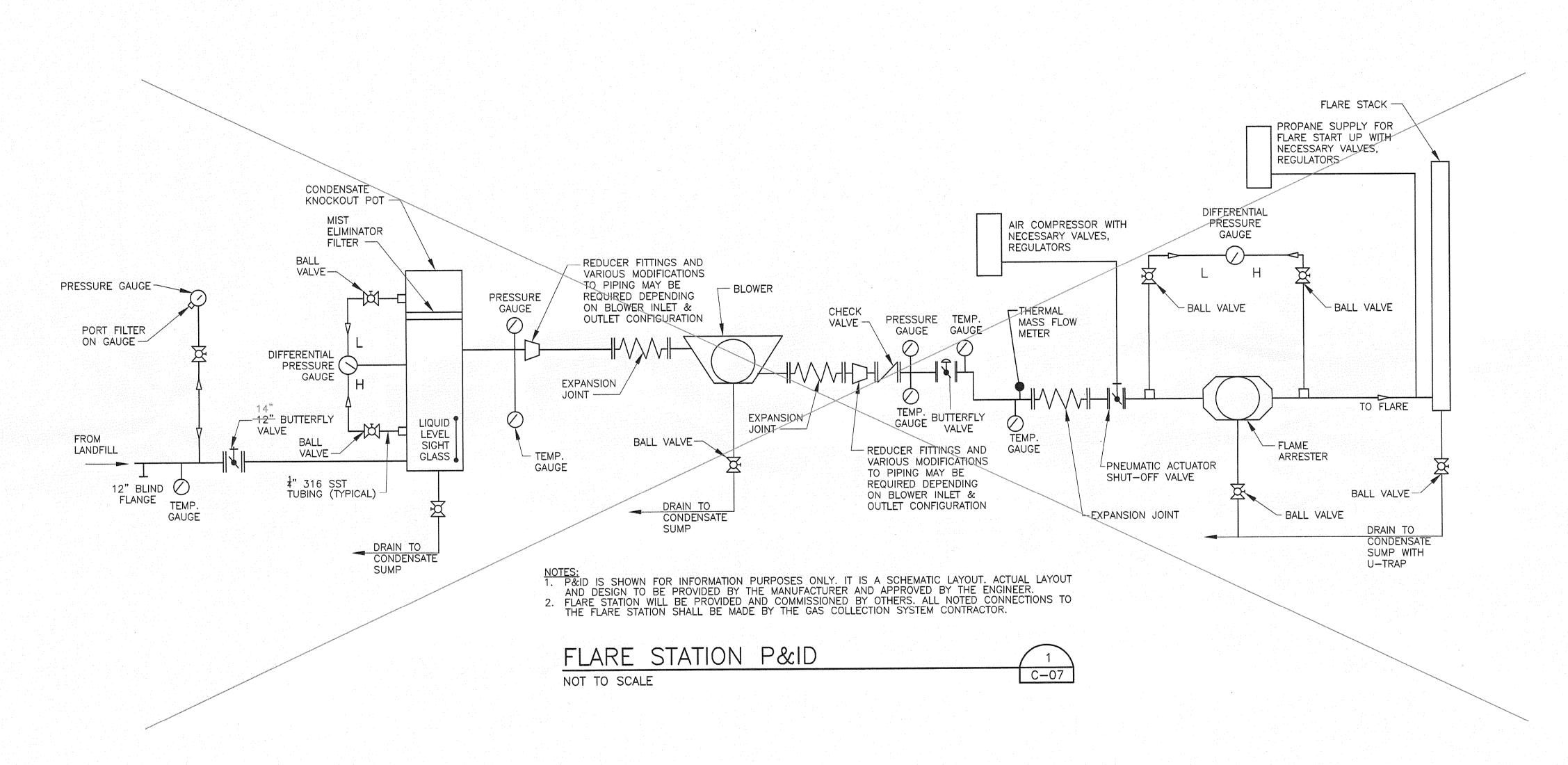
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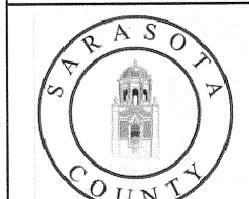
SEE SHEETS C-07A AND C-07B FOR AS-BUILT FLARE STATION P&ID AND LEGEND

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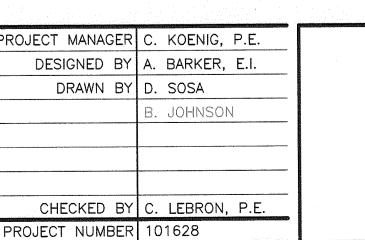
> CLIFFORD G. KOENIG, P.E. FLORIDA P.E. NO. 64078 HDR ENGINEERING, INC.

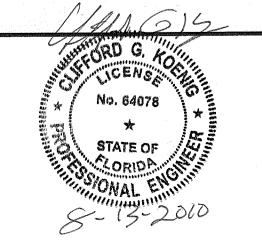
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3	08/10	RECORD DRAWINGS	
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Central County Solid Waste Disposal Complex Phase 1 - Sequence 1 **Landfill Gas Collection and Control System**

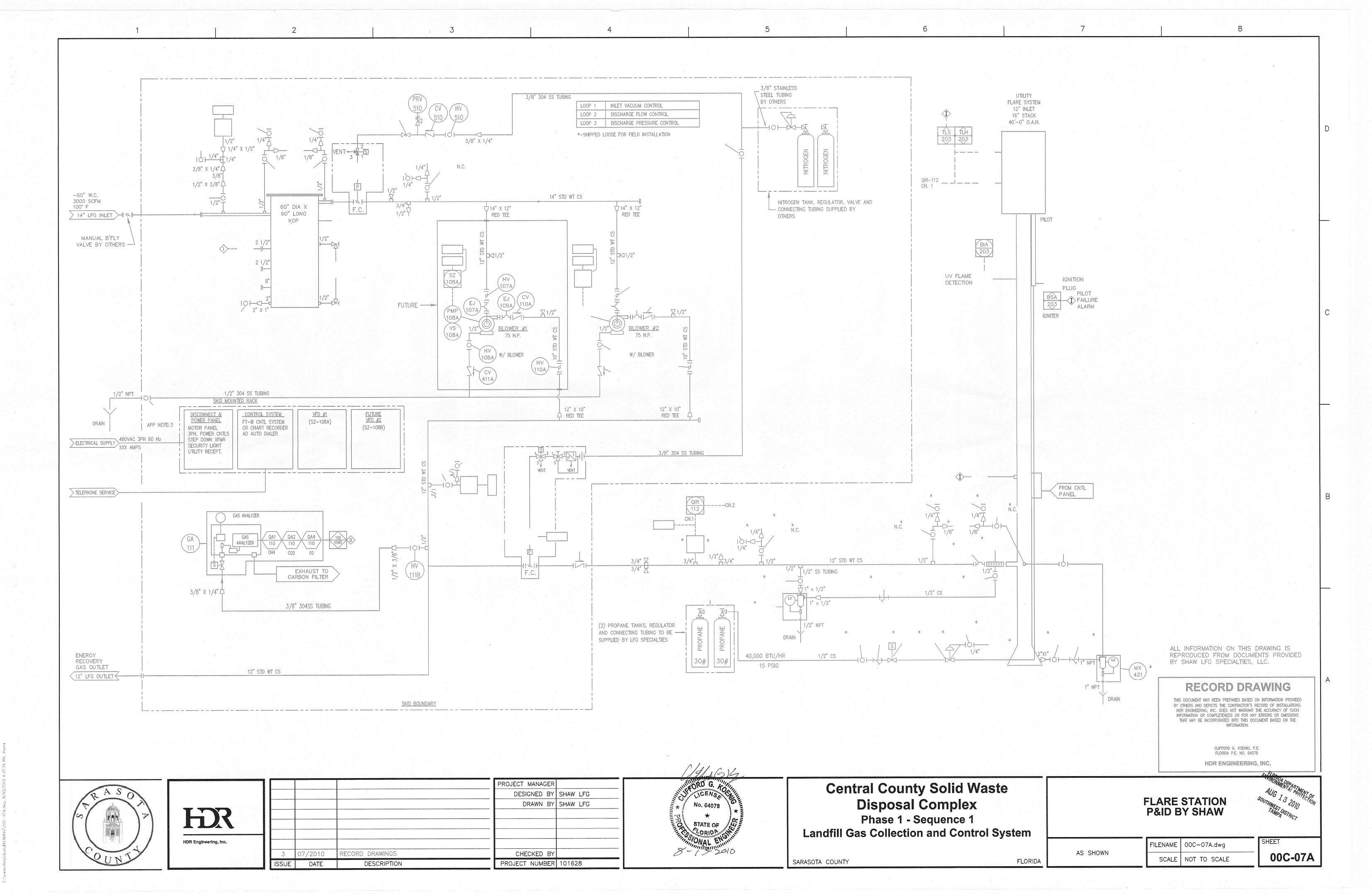
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FLARE STATION P&ID

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LFG	HV-1008	1	VALVE GAGE BALL 1/4" MIDLAND SS INLET HEADER VACUUM TRANSMITTER	YOKOGAWA	EJA530A	NON STOCK	-100" TO 0" W.C.	20000300
LFG	PIT-100 HV-102		BALL VALVE 1/2" SS	LFG	Lev V M V V V V V V V V V V V V V V V V V	PFV012S	100 10 M, Q.	20000300
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FC C	DPI-103	1 1	DIFFERENTIAL PRESSURE GAUGE	LFG	ного в эти метонично подости на пределения подосто на предоставления подости до предоставления подости на подо	PFG2010PD	0° 10° H20	20000282
NDENSATE	K0P-103	CONTRACTOR STATEMENT AND STATE	60" DIAMETER X 90" TALL KNOCKOUT POT	L ^{co} G	TREASE AUTOMOTION TO TO THE TREASE AND THE SECRETARIES OF THE SECRETAR	2186-MK1		20000230
VDENSATE	LI-103	1 1	SIGHT GAGE POLY 5/8"OD X 1/2" ID (REFERENCE)	Comp 1: Various and the second	тері шыралық жайын кіті тең тері женін бесі жене бесі жең жең жең жең жайын жа			20000230
	LSHH-103	4	LIQUID LEVEL SWITCH HIGH HIGH L6-EPB-B-S-3-A LEVEL SWITCH	LFG		ECLS100X120		20000230
VDENSATE	HV=103		BALL VALVE 1" THRU-UNION PVC		nn die vertrag lager Heine voor de Profession voor verbende voor de	PFV1P		20000230
LFG	HV-104	PROPERTY OF STREET	BALL VALVE 1/2" SS		N MY PROGRAM MAN MAN MAN MAN MAN MAN MAN MAN MAN M	PFV012S	noona noona na mara ka maan maanaan maran maran na na na maran na ma	20000300
NAMES OF THE PROPERTY OF THE P	HV-104A	4	VALVE GAGE BALL 1/4" MIDLAND SS	LFG	до и под того по при в поста по под при по под под под под под под под под под	PFGV014S		20000300
	FCV-105	} ************************************	14" BUTTERFLY VALVE W/ PNEUMATIC ACTUATOR	LFG	TERMONE SECURITY SECU	VWB14CT-POC		20000281
·····	FCZC-105	1	POSITION SWITCH ACTIVE FCV-105 CLOSED SUPPLIED W/ FCV-105	Home C - V	nd delen men en e			20000281
management and a property of the company of the com	FCZO-105		POSITION SWITCH ACTIVE FCV-105 OPEN SUPPLIED W/ FCV-105	umande anticasiones pour experience es person e qui presente as a constitución de relación de relación de constitución de la co	ACTION AND ACTION OF THE BASE A SOCIETY OF THE SECOND STREET, CONTRACT OF THE SECOND STREET,	та бу жел сустолого тите в в дом посмение устоя другия инфилосом дом в сем общиот в посмение в сем общиот в посмение в том общиот в посмение в сем общиот в посмение		20000281
LFG	HV-106A	1	VALVE BALL 1/2" SS SHARPE	an com form any surrounce and the surrounce and assure appearance of the surrounce and the surrounce a	очнович в общеньющим связ бенеденировного приняти озможности под приняти в приняти в общенью в общенения в общенью в общенения в общения в общенения в общения в общенения в общения в общенения в общенения в общенения в общенения в общенения в общенения в общения в общения в общения в общения в общения в о	PFV012S	energen von des tregen rechts til er kommen dem kannen och state state state state för en en en en en en en en	20000300
LF G	HV-106B	1 	VALVE GAGE BALL 1/4" MIDLAND SS	LFG	erinar senden August 1934 in operation in laboratura en readulate interprise de la sidia de disprise interprise de la sidia del sidia de la sidia de la sidia del sidia de la sidia del sidia de la sidia de la sidia del sidi	PFGV014S	намения в положен в самым может по положения положения в положения	20000300
LFG	PI-106		INLET HEADER VACUUM GAUGE	LFG	но-менунанун том и пом	PFG60-OH2OV	60" TO 0" W.C.	20000282
	CONTRACTOR DESCRIPTION OF THE PROPERTY OF THE	1	TEMPERATURE GAUGE	LFG	моском потожного вышим починательного выпоченного выпочностью на настоя на почений на на настоя на почений на настоя на почений на настоя на почений на настоя на почений на на настоя на	PFGT300600	0° TO 250° F	20000282
LFG LFG	TI-106	**************************************	EXPANSION JOINT 12" X 10" X 8" SOA J10 BUNA W/RING	LFG	имерицинавализ вворон порожили фалектеров моней в на изверей еверому общественного общественного от пределение в пот	VFJ12X10B	— — — — — — — — — — — — — — — — — — —	20000281
	EJ107B	1 1	12" GEAR ACTUATED MANUAL BUTTERFLY VALVE	LFG	BERTONIAN MITTERSTENDEN BERTONIAN BE	VWB12CB-G	сиятия» надавивания сажнаризу социально постронен пъстига и на актому применя на начение не не не не на принцистиву достига на на	20000281
LFG LFG	HV-107B	1	BLOWER VIBRATION SWITCH	MURPHY	AND CONTROL OF THE CONTROL OF THE STATE OF T	VS2EXR-115VAC	ного противня в положения в положения в под на предоставления в под	20000280
ereconstruction of the second	VS-108B	4		WURTH I	energy magnetic account and the contract of th	TO SEA THE AND A CONTROL OF THE PROPERTY OF TH	3000 SCFM @ -60" WC & 15" WC	ALES CERCITATION AND AND AND AND AND AND AND AND AND AN
DENCATE	PMP108B	**************************************	BALL VALVE SS 1/2" (SUPPLIED W/ BLOWER)	TDI	OOV J	BEEN COMMUNICATION CONTROL OF CON	COURT NATION OF TO ALC IN ALC	20000280
IDENSATE	HV108B	animamanimin A	TO THE OWN THE PROPERTY OF THE	LFG		NATION AND THE STORM OF THE STREET STREET STREET, STRE		MCC00500
Page C	SZ108B	generalismoniscond	VARIABLE FREQUENCY DRIVE - PMP-108A EXPANSION JOINT 10" X 8" X 6" SOA J10 BUNA W/RING	LFG	umportus paida parti di Aldinei isoli mi interiori mi mangani mangan talika interessibal interesion interessibal interessibal interessibal interessibal interessi	VFJ10X8B		20000281
LFG	EJ-109B	4	The state of the s	LFG		VWC10CAB		20000281
LFG	CV-110B		CHECK VALVE 10" WAFER STYLE	LFG	na sanda na sanda da d	VWB10CB-L		20000281
L year you	HV-110B		10" LEVER ACTUATED MANUAL BUTTERFLY VALVE	and the second s	SCOTA ALA COTALL	2186-GPID		20000201
LFG	GA-111	1	GAS ANALYZER PACKAGE	SEIMENS	ULTRAMAT 23			20000281
teransummenteren eranasum eranas eta ria veren fer	Ind V rouge 1111 A serve B	in de la companie de	BALL VALVE SS 1/2"	Le G	and state of the following controlling the state of the s	PFV012S		20000300
LFG	HV111C		VALVE GAGE BALL 1/4" MIDLAND SS	LFG	Par A A A A A A	PFGV014S	0" TO 20" W.C.	n de la compresión de l
The C	PIT111	1	OUTLET HEADER PRESSURE TRANSMITTER	YOKOGAWA	EJA110A	Color line CTV V	0 10 20 W.C.	20000282
COVERY	PCV-112		PRESSURE CONTROLLED MODULATING VALVE	Le G		SPECIAL		20000281
al acción betracalmentalistation per principal properties de la conferencia	PCZC-112	in 1	POSITION SWITCH PCV-112 CLOSED SUPPLIED W/ PCV-112	aces and constitution of the second s				20000281
ZZZZOWADNICZOWENOWACIONOŚCIOWAZOWEZOWANIA W	PCZ0112	anaziriar ramoniumo	POSITION SWITCH PCV-112 OPEN SUPPLIED W/ PCV-112		NOVOCO SER AND A COMPANION OF ENGINEERS OF THE SERVICE OF THE SERV	The second secon		20000281
COVERY	CV=112	(understandenskalen)	CHECK VALVE 12" WAFER STYLE	Lem C		VWC12CAB	0 TO 2500 00514	20000281
LFG.	FIT-112	1	GAS FLOW METER PROBE	The CI	ST51	Les Long Art Art Art Long I F Val Art II Val	0 TO 6500 SCFM	20000282
LFG	[1] com 112	1	OUTLET HEADER PRESSURE GAUGE	The Company of the property of		PFG025H20P	0" TO 25" W.C.	20000282
LFG	QIR-112	de existence de la companya della companya della companya de la companya della co	FLOW RECORDER (REFERENCE)	YOKOGAWA		and an annual contract of the	4-m 20 mA	CONT0500
LFG	T112	1	TEMPERATURE GAUGE	Le G	EEDINGER GEBERGERINGERINGE AND WERE HOW TEES IN YOU ON HOUSE HOW SHOWN HOW HOW HOW HE WAS THE WELL FOR THE WEST THE STATE OF THE STATE	PFGT300600	O° TO 250° F	20000282
LFG	HV-112A	1	VALVE BALL 1/2" SS SHARPE	LF G		PFV012S		20000300
LFG	HV ==== 112B =============================	4	VALVE GAGE BALL 1/4" MIDLAND SS	L. Ca. C		PFGV014S		20000300
LFG	HV-112	1	BALL VALVE 1/2" SS		T TEACH TO COME AND AND A STATE OF THE STATE	PFV012S		2000300
LFG	DPI-113	1	DIFFERENTIAL PRESSURE GAUGE	FG	NEUTRICONNELLE CONTRACTOR DE C	PFG2010PD	0°9 мага 10°9 H20	20000282
LFG	HV-113A-B	2	VALVE BALL 1/2" SS		ranner namas standinini belalasuki kuluki himpo ey suuruni mini penincen ee aska ka kasamma kanna mee ee aska k	PFV012S		2000300
LFG	EJ113	1	EXPANSION JOINT 12" X 12" X 8" SOA J10 BUNA W/RING	LF G	NO CONTRACTOR CONTRACT	VFJ12B		20000281
LFG	FA-113	1	12" FLAME ARRESTER	LFG		FA12AH-V		20000281
DENSATE	STR-113	1	1/2" WYE STRAINER	LFG			PFY012C	20000300
DENSATE	MX-113	1	1" AUTOMATIC DRIP TRAP			DT100FAI30		20000300
LFG	HV==114A	1	VALVE GAGE BALL 1/4" MIDLAND SS			PFGV014S		20000300
LFG	HV~ 114	CONTROL OF THE PROPERTY OF THE	BALL VALVE 1/2" SS		UP DOMESTIC ON A STATE OF THE S	PFV012S		20000300
na gone dia diaka kendangan kelanggan dia menganggan penganggan penganggan penganggan penganggan penganggan pe	BB-201		IGNITOR PLUG CA475	L.F. G	17 10 10 10 10 10 10 10 10 10 10 10 10 10	ESPIG4	CONTINUENT HORIZON THOSE	20000210
TACK	HV-201	1	VALVE BALL 1" SS			PFV1S		20000210
L _p G	TAH201		FLARE INLET HIGH TEMPERATURE ALARM		TO THE	ESTB1X68	300°F	20000210
STACK	BE-203	1	ULTRAVIOLET FLAME SCANNER	Late G	The state of the s	EUVSCNRA		20000210
TACK	BIA == 203	oresseasonand narrowanse	FLAME DETECTOR RELAY	La C		ACCEPTANCE OF THE PROPERTY OF	10 SEC. DELAY MINIMUM	NA
	BSA-203	Contract of the Contract of th	PILOT / IGNITION FAILURE	The state of the s		ATTEN HER	and property and the second se	one for an entire to considerate to the contract of the contra
STACK	TE-203	1	PILOT THERMOCOUPLE	LFG		ETCA14W096SK	8'-0" LG. TYPE "K"	20000210
C TARANTO S AMBIETO DE LA PERE SER SE SER SE	TLS 203	an exercise a second se	PILOT OFF RELAY FCV-301 CLOSED			ANTERNA THE REPORT OF THE RECEIPT OF MITTER CHAP & BY SHE HELD SHE HAVE AN ANTERNATION OF THE RECEIPT OF THE RE	400°	NA
OD THE THE PROPERTY OF THE PRO	TLH-203		BLOWER ON RELAY	Carponers (Anno 1884) and annothing and annotation and annotation of the control	at telepatan kenyerte di Superminin pengangan pengangan kenuan kenadan anakah di kaladian kahan kenindi di pend	TO AND THE PROPERTY OF THE PRO	South reference and the second contract of th	NA
STACK	TE-204	, d	PROCESS THERMOCOUPLE	emakan paraman kelah dan kasasasan kala katu katu katu paman pamahan katu katu katu katu katu katu katu katu	NILLAND THE REPORT AND THE ALL OF CHARLES AND THE PROPERTY OF	ETCA14W108SK	9'-0" LG. TYPE "K"	20000210
OPANE	MX-300)	30# PROPANE BOTTLE		ана под техничного учествення под	SPECIAL		20000210
OPANE	HV-300	4	BALL VALVE SS 1/2"			PFV012S	NOT THE REPORT OF THE PROPERTY	20000210
OPANE	STR-300	1	Y-STRAINER W/ 1/4" SQUARE PLUG	LFG	NA HERMANIA (MININGA MININGA M	PFY012C	A DESTRUCTION OF THE PROPERTY	20000210
OPANE	FCV-301	1	PROPANE GAS SHUT-OFF SOLENOID VALVE	LFG	ынац она росположен мунот замен на электенной объекто борогом мунорогом пределя пактем по поставление от выположение объекто от выположение от выструительного от выстру от выположение от выти от выстру	PFS012Y120VEXP	amontorien en e	20000210
A THE RESIDENCE AND A STREET,	HV-302	4	1/4" AIR COCK VALVE	LF G	тим поменти подательного поменти подательного поменти и поменти поменти поменти поменти поменти поменти поменти Поменти поменти	PFV014AC	onanazorusuoi missa automata oka sa tamata nyk vuon eteenna eronna talasina tarpoponassa kirin kensiska kahikun tarakin tarakin kensiska kahikun tarakin kensiska kahikun tarakin tara	20000210
ROPANE	THE PROPERTY OF THE WORLD STREET, THE PROPERTY OF THE PROPERTY	4	PROPANE GAS PRESSURE INDICATOR	LFG	мендеген муниципальных приходать выполня выполня выполня выполня выполня выполня выполня выполня выполня выполн В применен выполня	PFG212PSI15	CONTINUES DE CAMBIA DE LA SECULIA COMPETANDO POR PORTADA DE PORTADA DE LA SECULIA DE COMPETANTA DE LA COMPETANDA DE LA COMPET	20000210
ROPANE ROPANE	PI-302	4		LFG	TO A PROPERTY OF THE PROPERTY	PFD012B	THE STREET OF TH	20000210
s sand Children	PRV-302		PROPANE GAS PRESSURE REGULATOR	Los C	мымнику ельтерителия формация выполняться образоваться в подательной выполнений вы	PFV012SSC	State in a treatment of contract or contra	20000210
NAMES OF THE PROPERTY OF THE P	CV-411B	annerannera receie	VALVE SWING CHECK SS 1/2" BALL VALVE SS 1/2"	LFG LFG	мен мен мен мен и при мен	PFV012S		20000300
JDENSATE	1111 272	78	IBALL VALVE 55 1//	i LTG I		I FEANIS		en el fanor anno anno anno anno anno anno anno
IDENSATE IDENSATE	HV-421	annessana ann an ann an ann an ann an ann an		Marian Anna Marian Mari	o reuse and activities and which control the control to the contro	A PER TURNOR STATE TO THE CONTROL OF THE CONTROL OF THE CONTROL OF THE PERSON OF THE CONTROL OF	WINDOWS AND A SERVICE OF THE SERVICE OF T	20000200
COMPRESSOR TRANSPORTED VIOLENCE PROPERTY OF THE PROPERTY OF TH	HV-421 STR-421 MX-421		1" WYE STRAINER 1" AUTOMATIC DRIP TRAP	LFG LFG		DT100FAI30		20000300

EQUIPMENT INSTRUMENT LEGEND

MANUFACTURER MANUFACTURER PART NO. | LFG PART NO. | ADDITIONAL INFORMATION | WBS CODE SERVICE ITEM QTY DESCRIPTION AIR / N2 CV-510 1 VALVE BALL CHECK BRASS 1/4" LFG PFV014ZC AIR00500 AIR / N2 HV-510 1 BALL VALVE SS 1/4" SS LFG PFV014S AIR00500 LFG POPOFF VALVE SET @ 105 PSIG AIR / N2 PRV-510 1 PRESSURE RELIEF VALVE AIR00500 AIR / N2 HV-511 1 NEEDLE VALVE 1/4" PFV014NZ LFG AIR00500 AIR / N2 HV-521 1 BALL VALVE SS 1/2" SS LFG PFV012S AIR00500

)())()				FUTURE EQUIPMENT /	INSTRUM	MENT LEGENI	micro.		
31	SERVICE	TEM	QTY	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NO.	LFG PART NO.	ADDITIONAL INFORMATION	WBS CODE
31	The Control of the Co	EJ-107A	1	EXPANSION JOINT 12" X 10" X 8" SOA J10 BUNA W/RING		COLUMNIC COLUMN	VFJ12X10B		20000281
81	Lef G	MV was 107A	1	12" LEVER ACTUATED MANUAL BUTTERFLY VALVE	The control of the co	ng barany manganir norona sa	VWB12CB-G		20000281
)()	Lange F G	VS-108A		BLOWER VIBRATION SWITCH	and, during a contraval considerate to its or tradicious conservative interestinate delegate EUTC 100 P V P V II A 19 P V P V			SUPPLIED W/ PMP-108A	20000280
)()	LFG	PMP-108A	4	LFG BLOWER W/3/60/480 TEFC MOTOR DIRECT DRIVE CW VERT DISCH	HSI	8803		3000 SCFM ◎ -60" WC & 15" WC	20000280
32	CONDENSATE	HV-108A	*	BALL VALVE SS 1/2" (SUPPLIED W/ BLOWER)	one Constitution of the Co				20000280
32	LFG	SZ-108A	ezpeznovensanna revenna zeroeloke	VARIABLE FREQUENCY DRIVE - PMP-108A	L _F F G				MCC00500
81	L.FG	EJ-109A	1	EXPANSION JOINT 10" X 8" X 6" SOA J10 BUNA W/RING	LFG		VFJ10X8B		20000281
81	LFG	CV-110A	1	CHECK VALVE 10" WAFER STYLE	The C		VWC10CAB		20000281
30	L. G	HV-110A		10" LEVER ACTUATED MANUAL BUTTERFLY VALVE	l.F.G		VWB10CB-L		20000281
30	CONDENSATE	CV-411A	1	VALVE SWING CHECK SS 1/2"	LF-G		PFV012SSC		20000300
``\'`\	AND REAL PROPERTY OF THE PROPE	who among a market and a second and a second and a second	Виличения кими полноченного на населения на населения на населения на населения на населения на населения на н Населения на населения на на населения на населения на населения на населения на населения на		The state of the s		-		

ALL INFORMATION ON THIS DRAWING IS REPRODUCED FROM DOCUMENTS PROVIDED BY SHAW LFG SPECIALTIES, LLC.

RECORD DRAWING

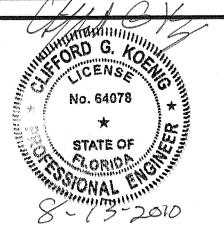
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> CLIFFORD G. KOENIG, P.E. FLORIDA P.E. NO. 64078 HDR ENGINEERING, INC.



HR HDR Engineering, Inc.

DESIGNED BY SHAW LFG DRAWN BY SHAW LFG CHECKED BY RECORD DRAWINGS DESCRIPTION DATE PROJECT NUMBER 101628



Central County Solid Waste Disposal Complex
Phase 1 - Sequence 1
Landfill Gas Collection and Control System

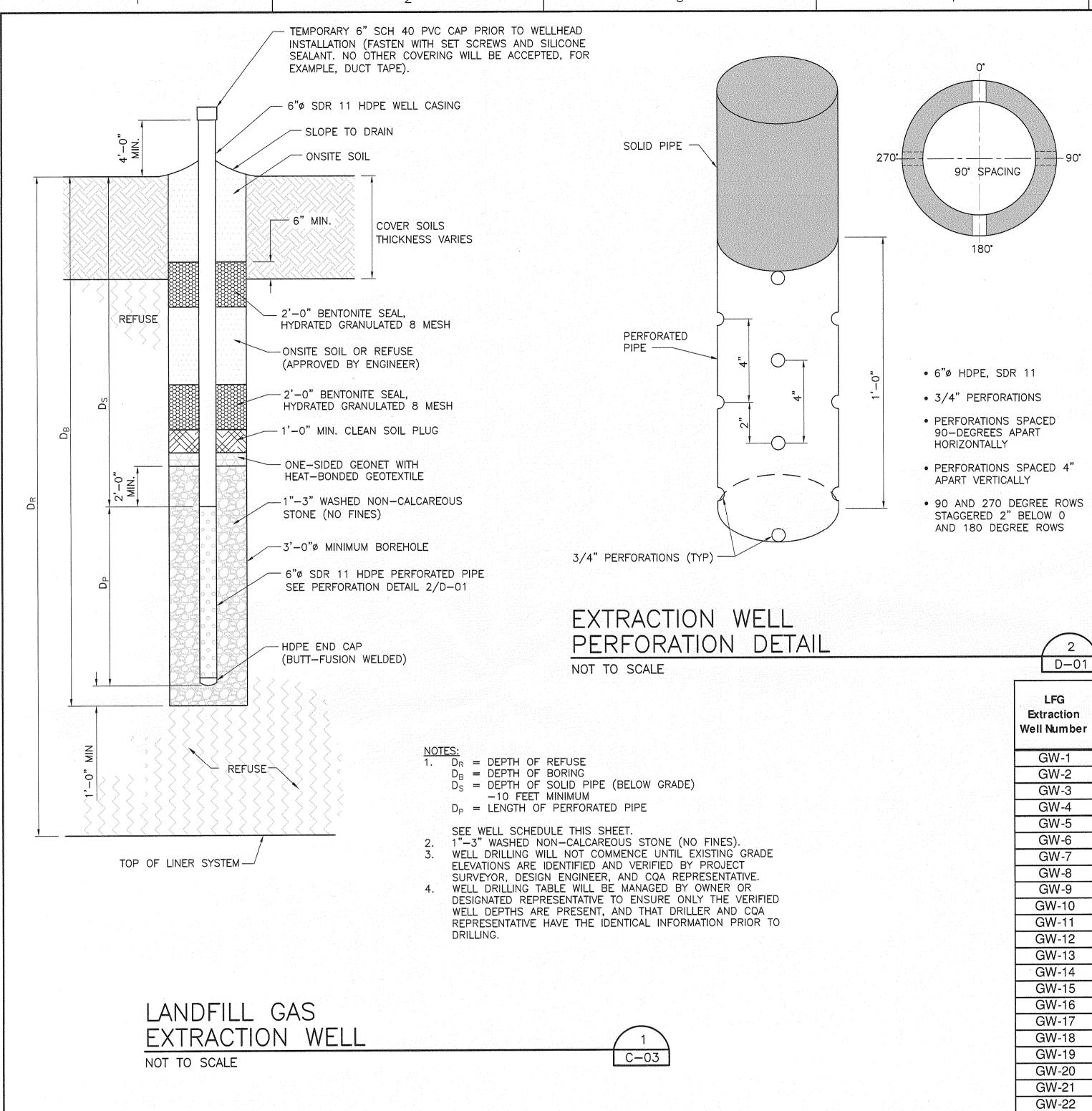
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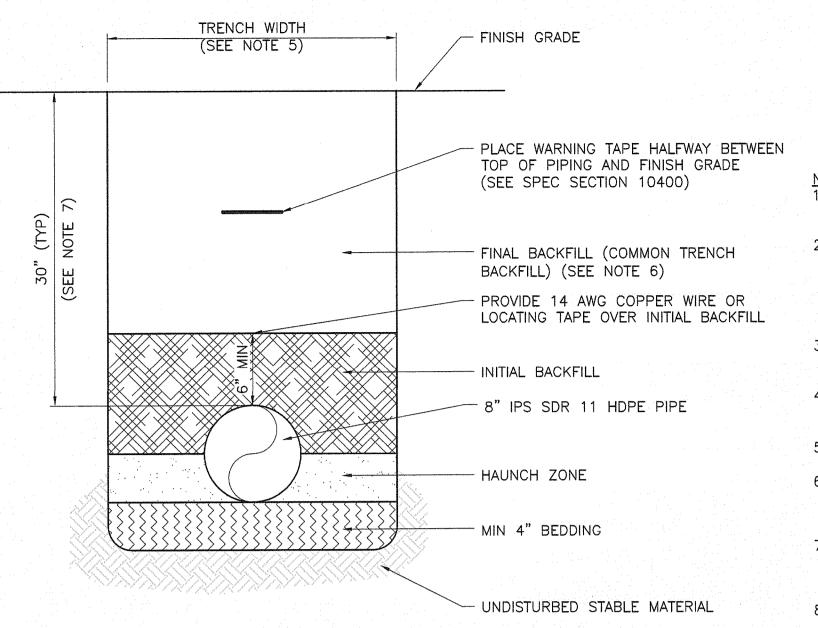
AS SHOWN

FILENAME | 00C-07B.dwg SCALE NOT TO SCALE SHEET 00C-07B

SARASOTA COUNTY

FLORIDA





NOTES:

1. TRENCHING AND PIPE INSTALLATION SHALL BE

1. ACCORDANCE WITH ASTM D232 PERFORMED IN ACCORDANCE WITH ASTM D2321.

MAXIMUM PARTICLE SIZE = 1/2".
2. BEDDING, HAUNCHING AND INITIAL BACKFILL MATERIAL USED SHOULD BE CLASS I OR CLASS II AS PER ASTM D2487, "STANDARD METHOD FOR CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES." THIS MATERIAL SHALL BE COMPACTED TO 95% DENSITY PER AASHTO T-99. SEE SPECIFICATIONS.

3. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION. DEWATER TO ONE FOOT BELOW TRENCH BOTTOM, SEE SPECIFICATIONS.

4. INITIAL BACKFILL SHOULD BE PLACED IN 6" LAYERS AND EXTENDED TO AT LEAST 6" ABOVE THE TOP OF

5. MINIMUM TRENCH WIDTH = PIPE OD + 16". MAXIMUM TRENCH WIDTH = MINIMUM TRENCH + 18".

6. FINAL BACKFILL SHALL BE CLASS I, CLASS II OR CLASS III MATERIAL AS PER ASTM D2487. THIS MATERIAL SHALL BE COMPACTED TO 95% DENSITY PER AASHTO T-99. SEE SPECIFICATIONS.

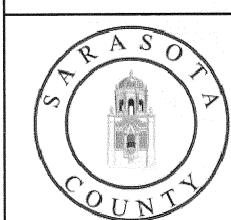
7. FORCEMAIN MAY BE INSTALLED DEEPER IN ACCORDANCE WITH SPECIFICATIONS TO MAINTAIN ADEQUATE CLEARANCE DURING HORIZONTAL DIRECTIONAL DRILLING OR DURING CROSSING OF EXISTING PIPELINES.

8. THIS DETAIL IS FOR INFORMATIONAL PURPOSES ONLY.

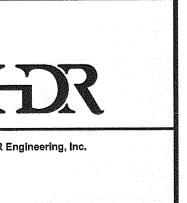
EXISTING LEACHATE FORCEMAIN BEDDING NOT TO SCALE

C-04

LFG Extraction	Grid Coordinates		Final Grade	Basegrade	Calculated Depth of Waste	Calculated Borehole	Solid Pipe (Does Not Include 4' Above	Perforated	Grid Coor (Surve		Surveyed Cover	Calculated Well	Calculated Perforated
Well Number	NORTHING	EASTING	Bevation	Elevation	(D _R)	(D _B)	Grade Stickup) (D _S)	Pipe (D _P)	NORTHING	EASTING	Bevation	Depth	Length
GW-1	1043648.25	529407.18	77.0	26.0	51.0	34.0	10.0	24.0	1043648.23	529407.18	74.92	33	22
GW-2	1043643.78	529555.93	79.0	28.0	51.0	34.0	10.0	24.0	1043643.77	529555.91	77.33	34	23
GW-3	1043644.93	529707.20	78.0	26.0	52.0	34.0	10.0	24.0	1043645.00	529707.21	76.33	35	24
GW-4	1043646.49	529856.78	78.0	27.0	51.0	34.0	10.0	24.0	1043646.48	529856.80	75.70	33	22
GW-5	1043646.70	530006.58	79.0	28.0	51.0	34.0	10.0	24.0	1043646.80	530006.58	76.51	33	22
GW-6	1043653.81	530156.12	77.0	25.0	52.0	34.0	10.0	24.0	1043653.74	530156.13	74.58	35	24
GW-7	1043655.04	530306.24	78.0	28.0	50.0	33.0	10.0	23.0	1043655.00	530306.17	73.17	30	19
GW-8	1043674.00	530451.01	79.0	27.0	52.0	34.0	10.0	24.0	1043673.95	530451.05	76.08	34	23
GW-9	1043729.42	530590.25	76.0	26.0	50.0	33.0	10.0	23.0	1043729.39	530590.26	74.33	33	22
GW-10	1043720.28	530744.59	79.0	28.0	51.0	34.0	10.0	24.0	1043720.35	530744.52	76.87	34	23
GW-11	1043699.47	530900.23	77.0	27.0	50.0	33.0	10.0	23.0	1043699.49	530900.25	74.62	33	22
GW-12	1043559.00		80.0	27.0	53.0	35.0	10.0	25.0	1043558.97	530925.69	76.58	35	24
GW-13	1043427.84	<u> </u>	77.0	27.0	50.0	33.0	10.0	23.0	1043427.69	530987.70	75.27	33	22
GW-14	1043278.66		79.0	29.0	50.0	33.0	10.0	23.0	1043278.58	531030.60	75.81	32	21
GW-15	1043116.60		79.0	29.0	50.0	33.0	10.0	23.0	1043116.56	531032.48	75.91	32	21
GW-16	1042957.98		77.0	29.0	48.0	32.0	10.0	22.0	1042957.98	531039.57	73.91	30	19
GW-17	1042808.10		80.0	29.0	51.0	34.0	10.0	24.0	1042808.15	531031.79	78.09	. 34	23
GW-18	1042657.09		78.0	29.0	49.0	32.0	10.0	22.0	1042657.06	531038.79	76.10	32	21
GW-19	1042607.47	530894.94	79.0	30.0	49.0	32.0	10.0	22.0	1042607.41	530895.05	75.19	30	19
GW-20	1042601.45		80.0	31.0	49.0	32.0	10.0	22.0	1042601.42	530744.75	76.89	31	20
GW-21	1042591.49		77.0	29.0	48.0	32.0	10.0	22.0	1042606.07	530594.44	74.42	30	19
GW-22		530443.14	79.0	30.0	49.0	32.0	10.0	22.0	1042575.17	530443.18	69.91	25	14
GW-23	1042592.58		78.0	30.0	48.0	32.0	10.0	22.0	1042592.64	530293.38	75.63	31	20
GW-24	1042588.66		77.0	28.0	49.0	32.0	10.0	22.0	1042588.64	530143.86	74.83	32	21
GW-25		529992.42	79.0	31.0	48.0	32.0	10.0	22.0	1042593.72	529992.38	76.58	31	20
GW-26	1042586.82		77.0	29.0	48.0	32.0	10.0	22.0	1042586.75	529842.71	72.77	29	18
GW-27	1042588.88		78.0	29.0	49.0	32-0	10.0	22.0					
GW-28	1042590.90		79.0	34,0	48.0	32.0	10.0	20.					
GW-29	1042583.90		melocation from the state of th	28.0	· 49-0	220	40,0	Quantum va Qu					The second secon
reparts i seureman i provincimo de receito de discolario de la companda de la companda de la companda de la co	S CONTROL OF THE STATE OF THE S	া বিশ্ব বিশ্ব বি	en de Trivett (TAZ UNAZ (CPZ)), ER	and the state of this labeled this labeled to be a served relative broad and the polythis in the labeled and the state of	TOTALS:	955.00	290.00	665.00	ระ เมื่อ เราะสุดคล	менадаличного положения по тем на положения до тем до поставления по тем по тем по тем по тем по тем по тем по	TOTALS:	834.00	548.00
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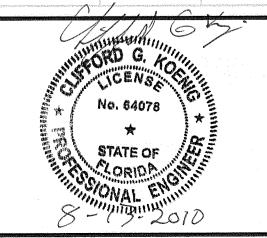
			A CONTRACTOR OF THE CONTRACTOR	
			PROJECT MANAGER	C. KOENIG, P.E.
			DESIGNED BY	A. BARKER, E.I.
			DRAWN BY	D. SOSA
				B. JOHNSON
3	08/10	RECORD DRAWINGS		
2	12/09	ISSUED FOR CONSTRUCTION		
1	08/09	ISSUED FOR BID		
0	05/09	ISSUED FOR CLIENT REVIEW	CHECKED BY	C. LEBRON, P.E.
SSUE	DATE	DESCRIPTION	PROJECT NUMBER	101628
				· · · · · · · · · · · · · · · · · · ·

RECORD DRAWING

THIS DOCUMENT HAS BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS AND DEPICTS THE CONTRACTOR'S RECORD OF INSTALLATIONS. HDR ENGINEERING, INC. DOES NOT WARRANT THE ACCURACY OF SUCH INFORMATION OR COMPLETENESS OR FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED INTO THIS DOCUMENT BASED ON THE

CLIFFORD G. KOENIG, P.E. FLORIDA P.E. NO. 64078

HDR ENGINEERING, INC.

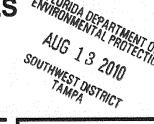




Landfill Gas Collection and Control System

ISSUED FOR CONSTRUCTION SARASOTA COUNTY

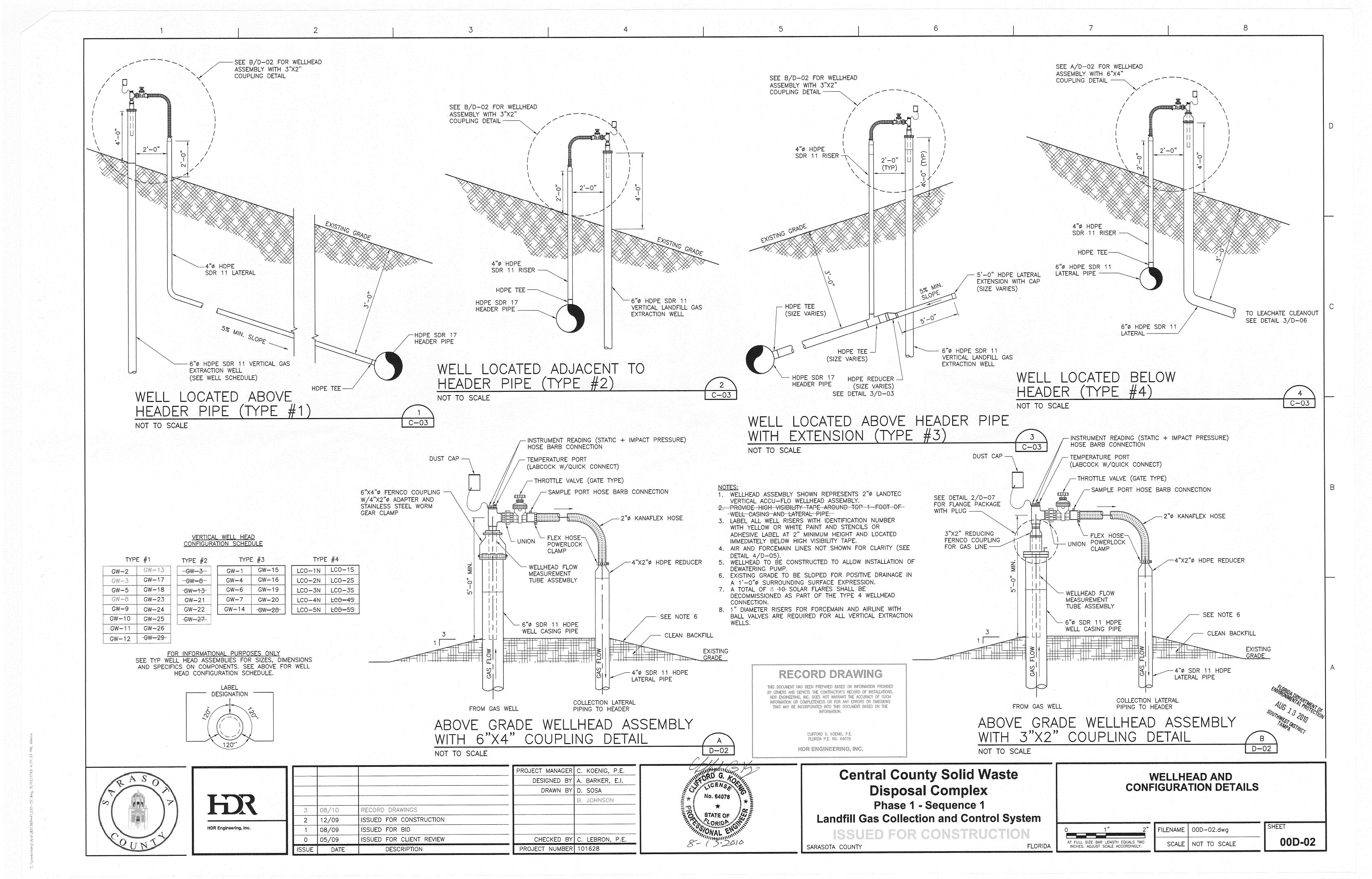


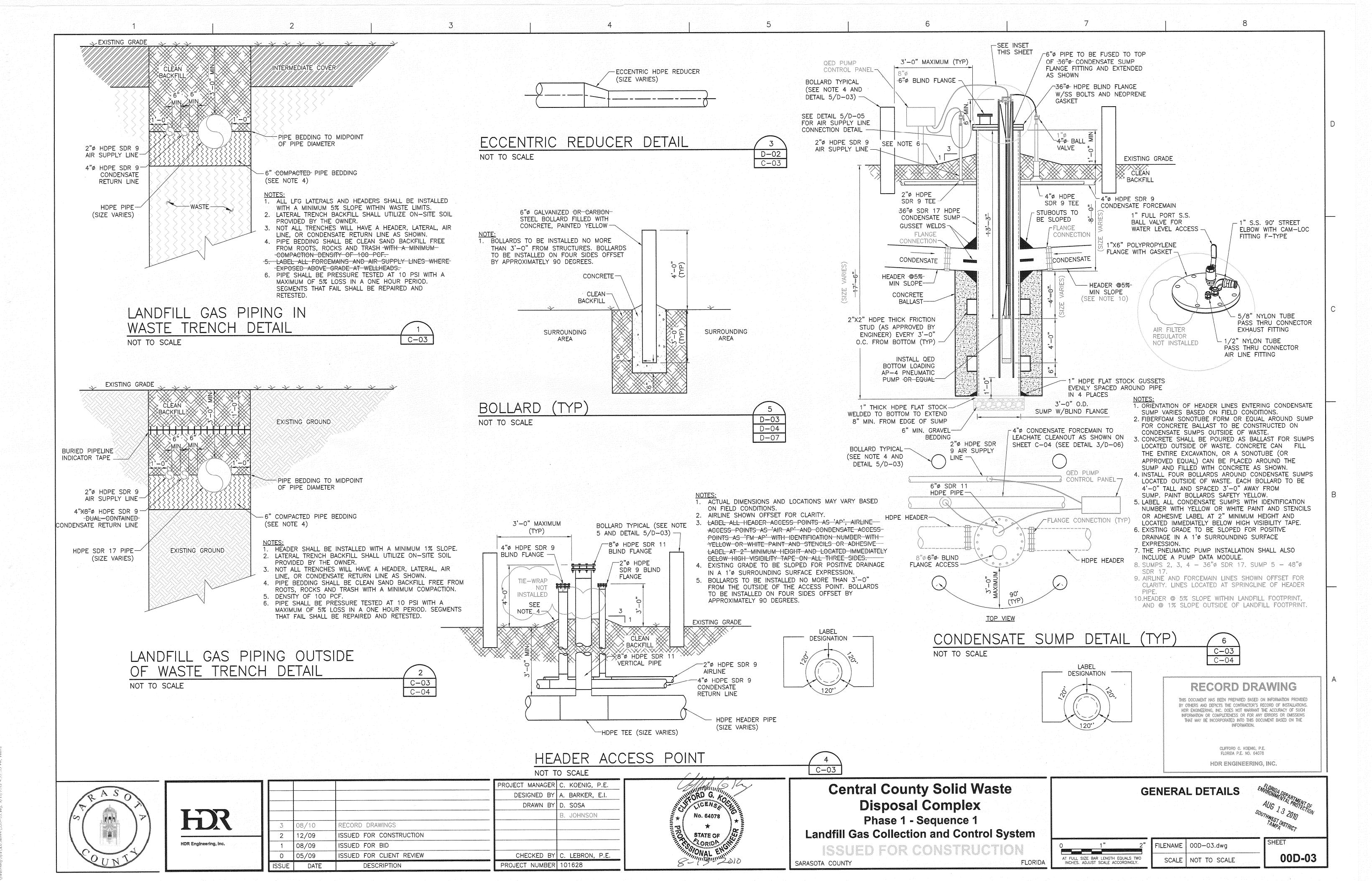


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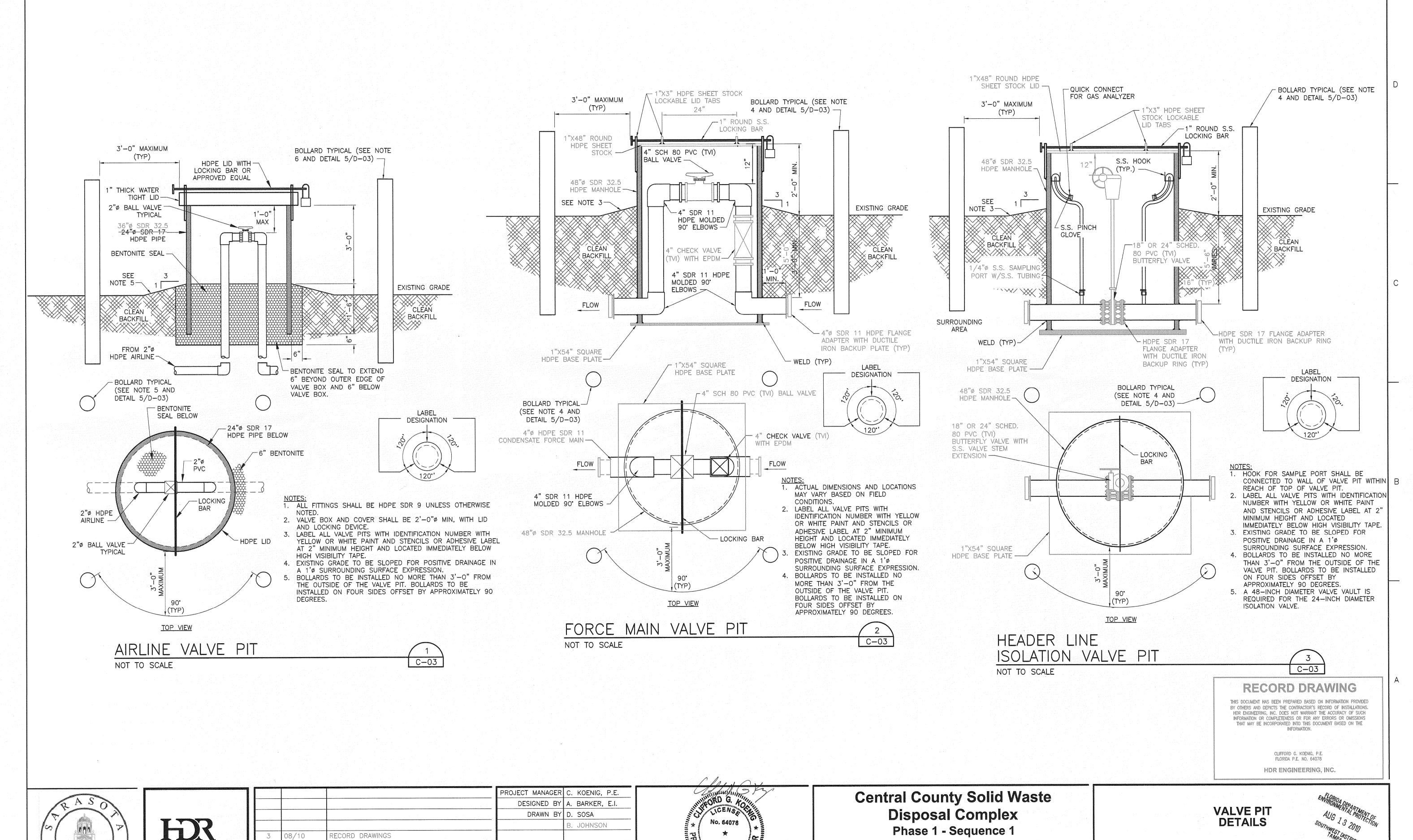
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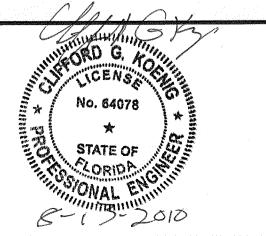


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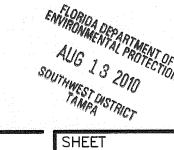


			PROJECT MANAGER	C. KOENIG, P.E.
			DESIGNED BY	A. BARKER, E.I.
			DRAWN BY	D. SOSA
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3	08/10	RECORD DRAWINGS		
2	12/09	ISSUED FOR CONSTRUCTION		
1	08/09	ISSUED FOR BID		
0	05/09	ISSUED FOR CLIENT REVIEW	CHECKED BY	C. LEBRON, P.E.
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	101628
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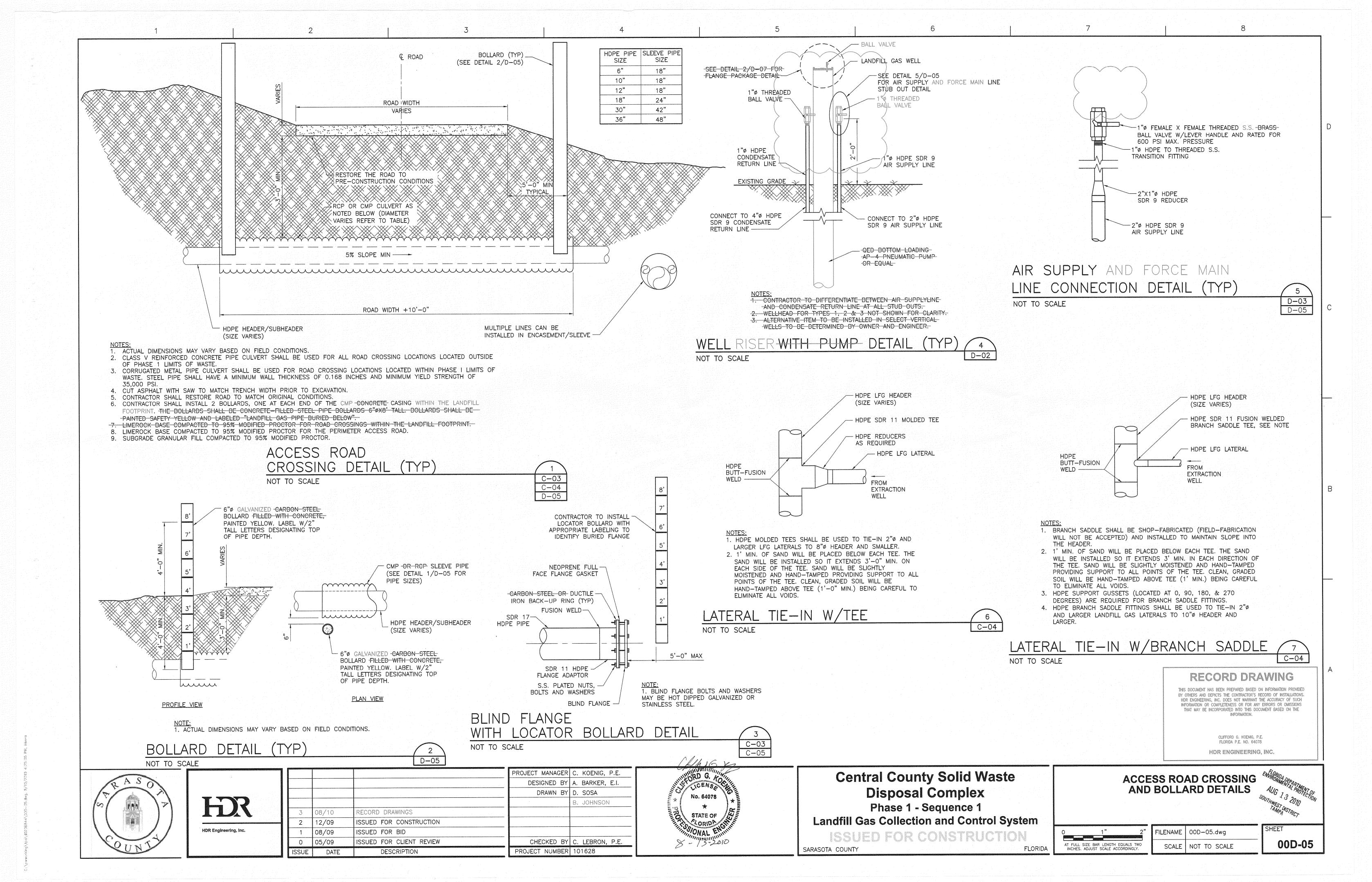
Landfill Gas Collection and Control System

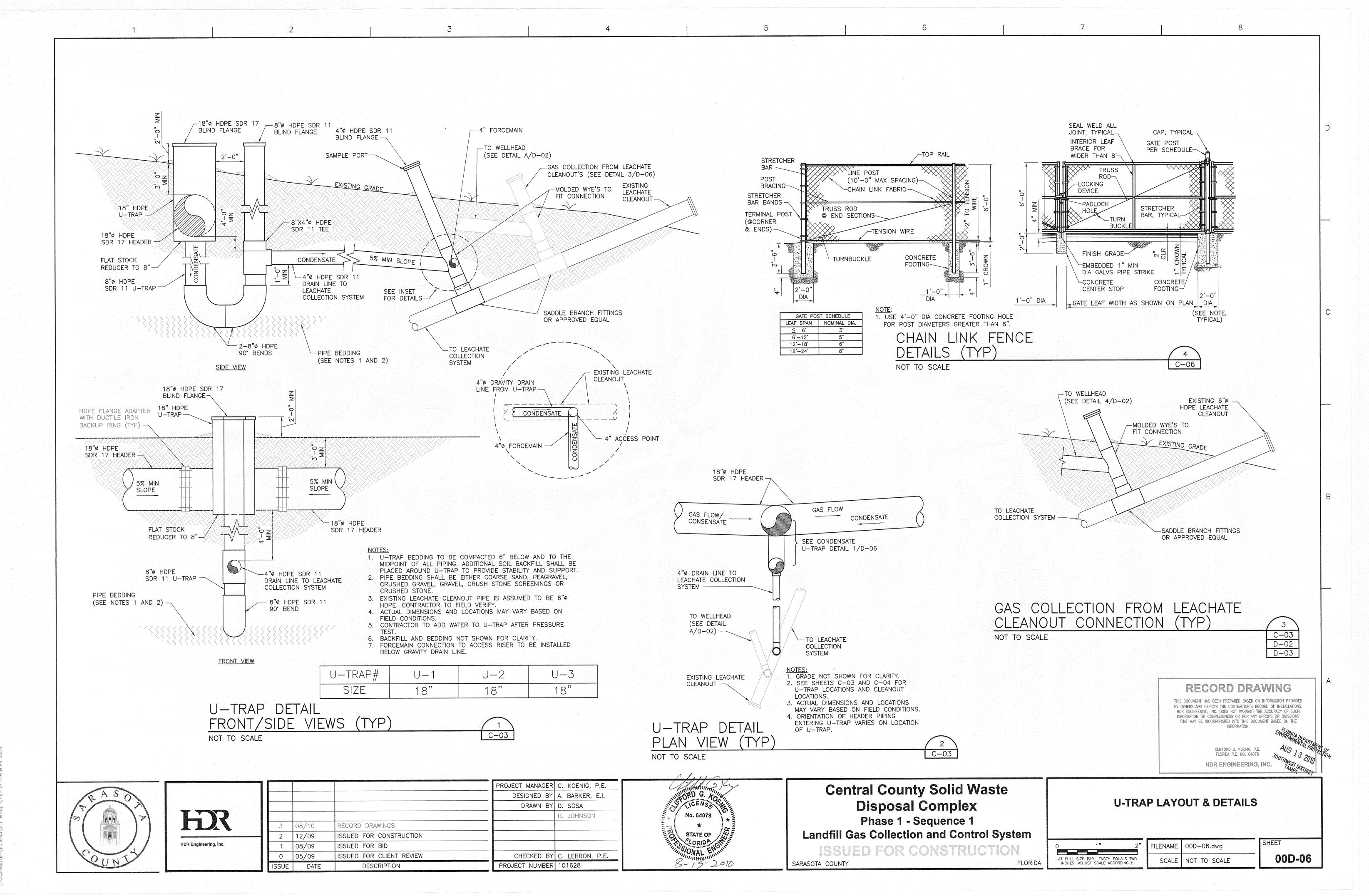
ISSUED FOR CONSTRUCTION FLORIDA SARASOTA COUNTY



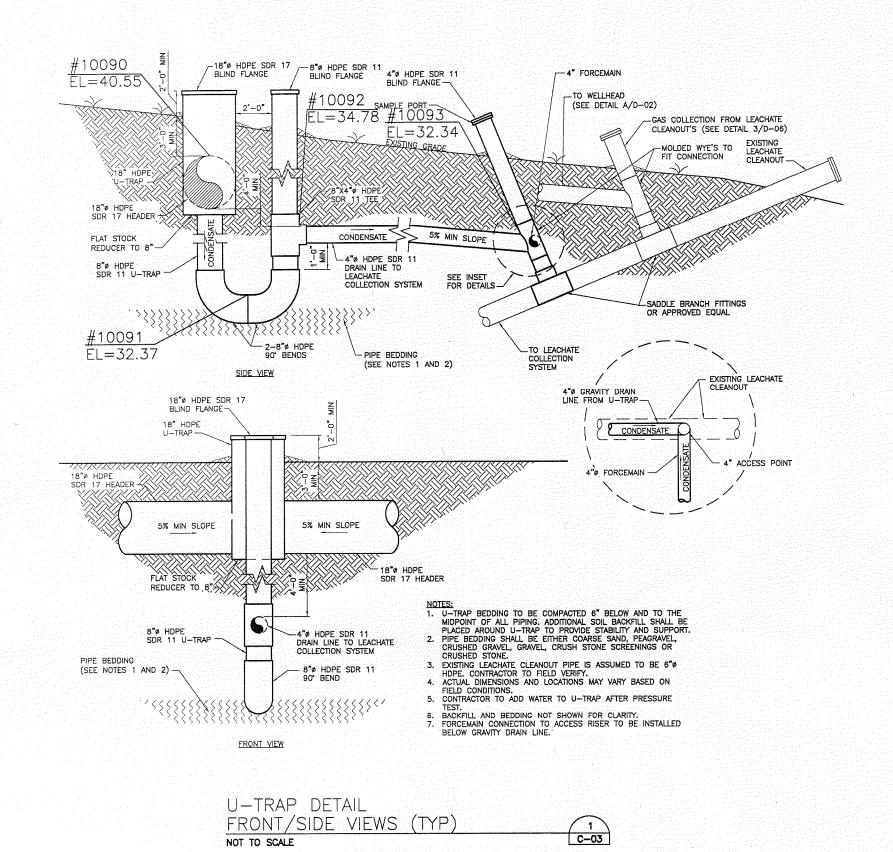
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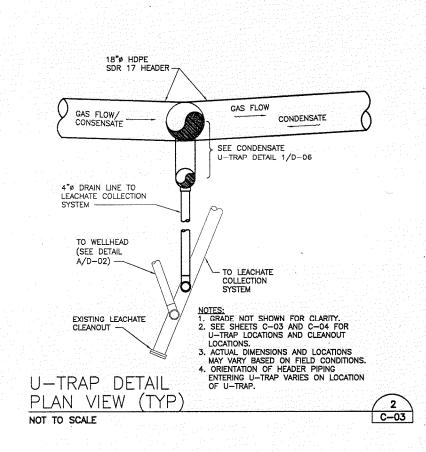
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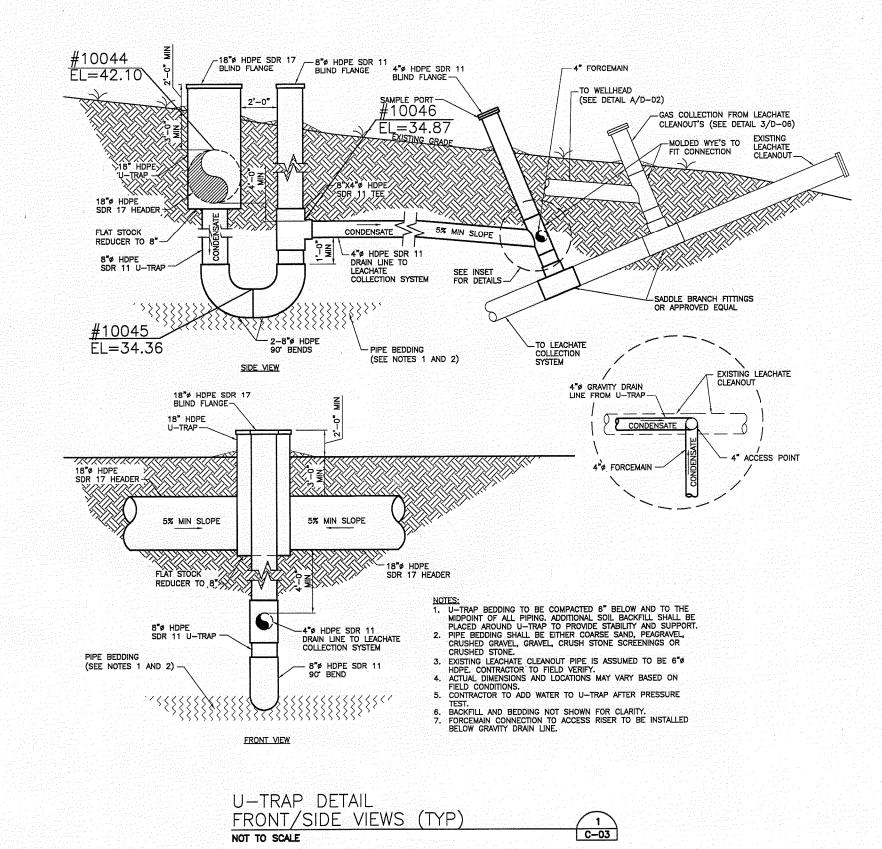


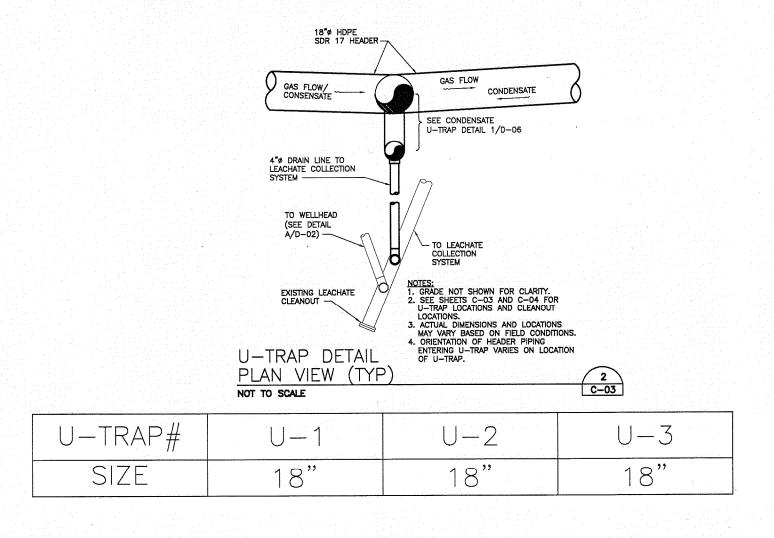
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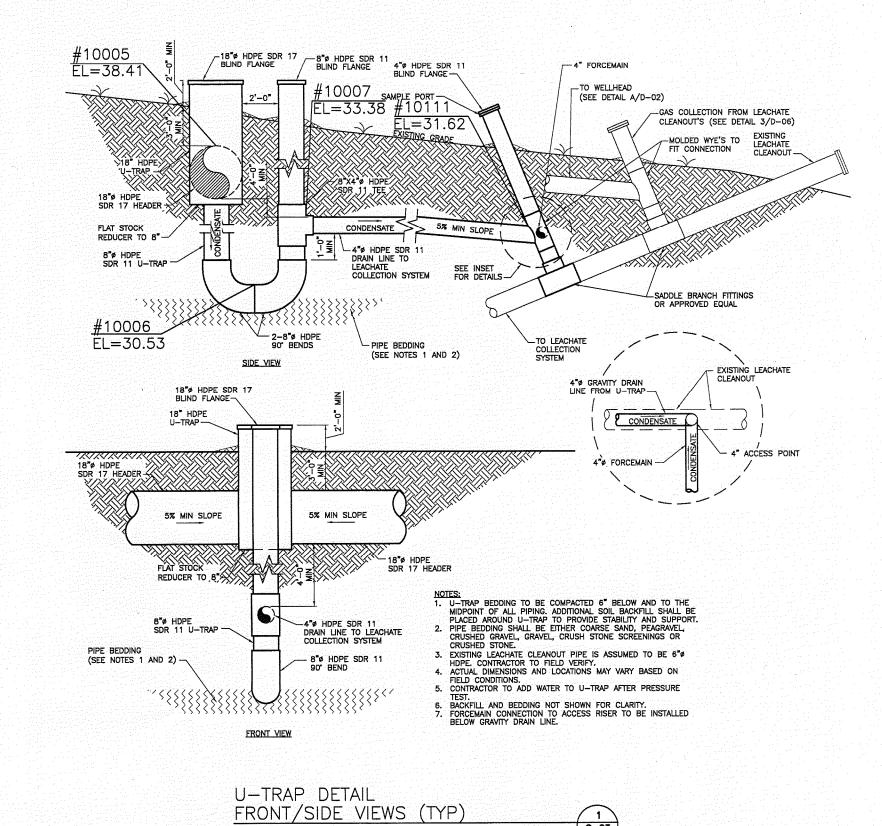


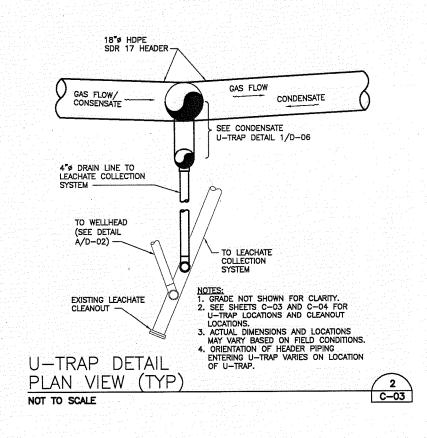
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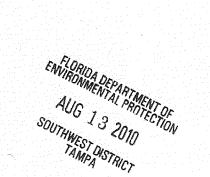




U-TRAP 1



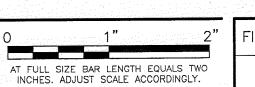




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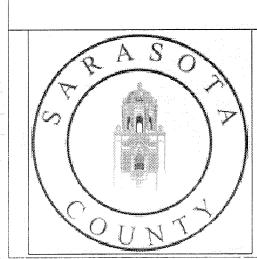
Hyatt Survey Services, Inc.

U-TRAP LAYOUT & DETAILS

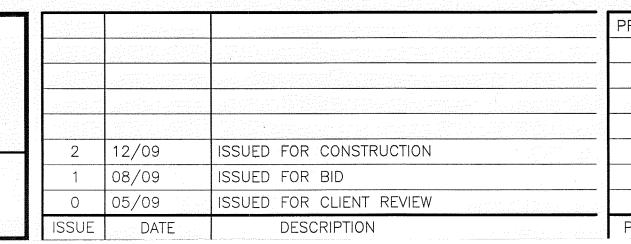


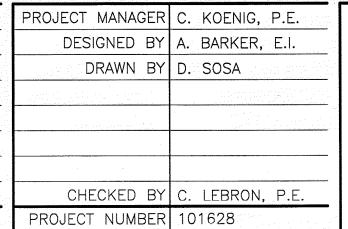
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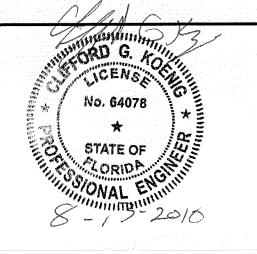
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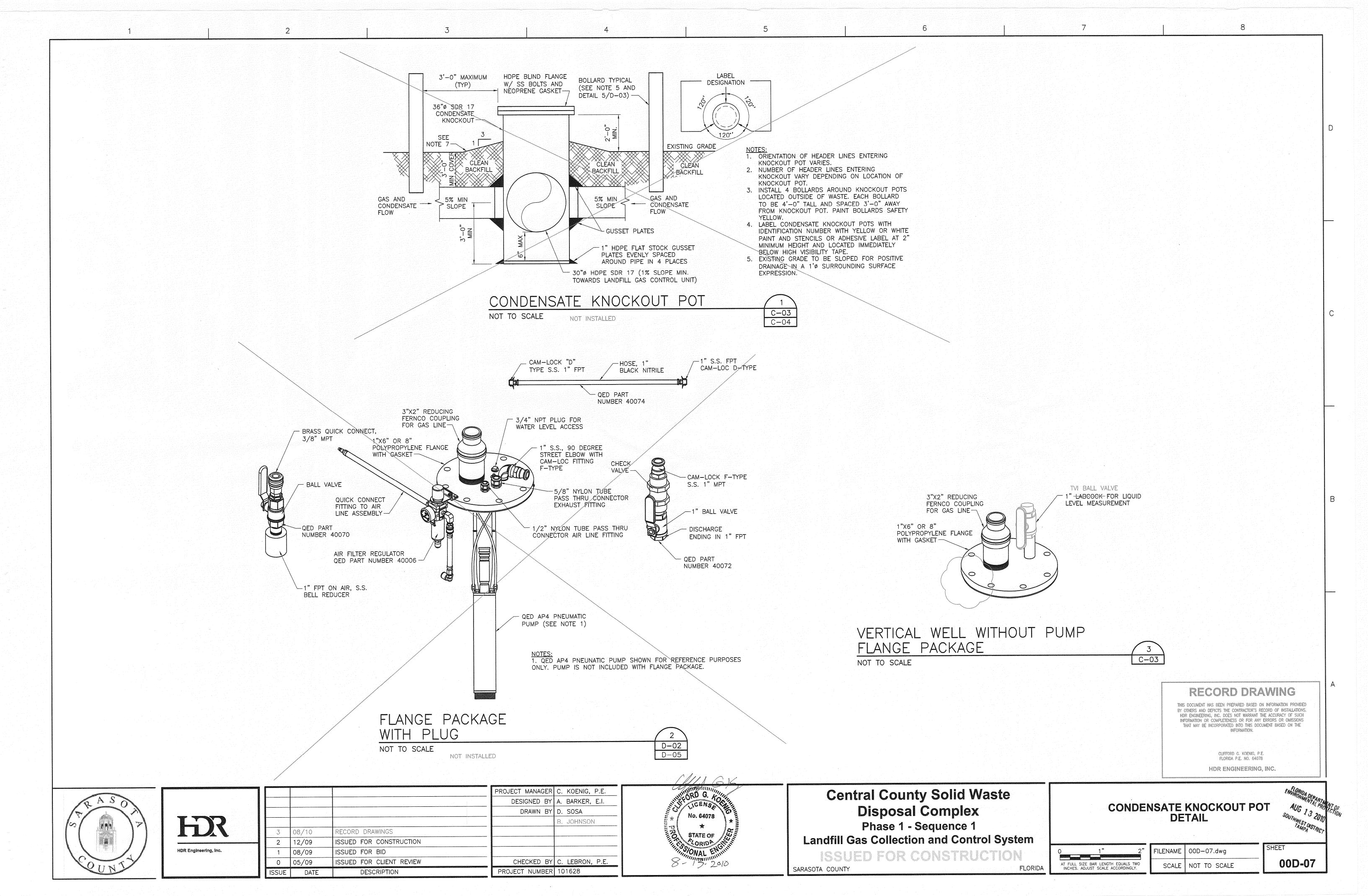




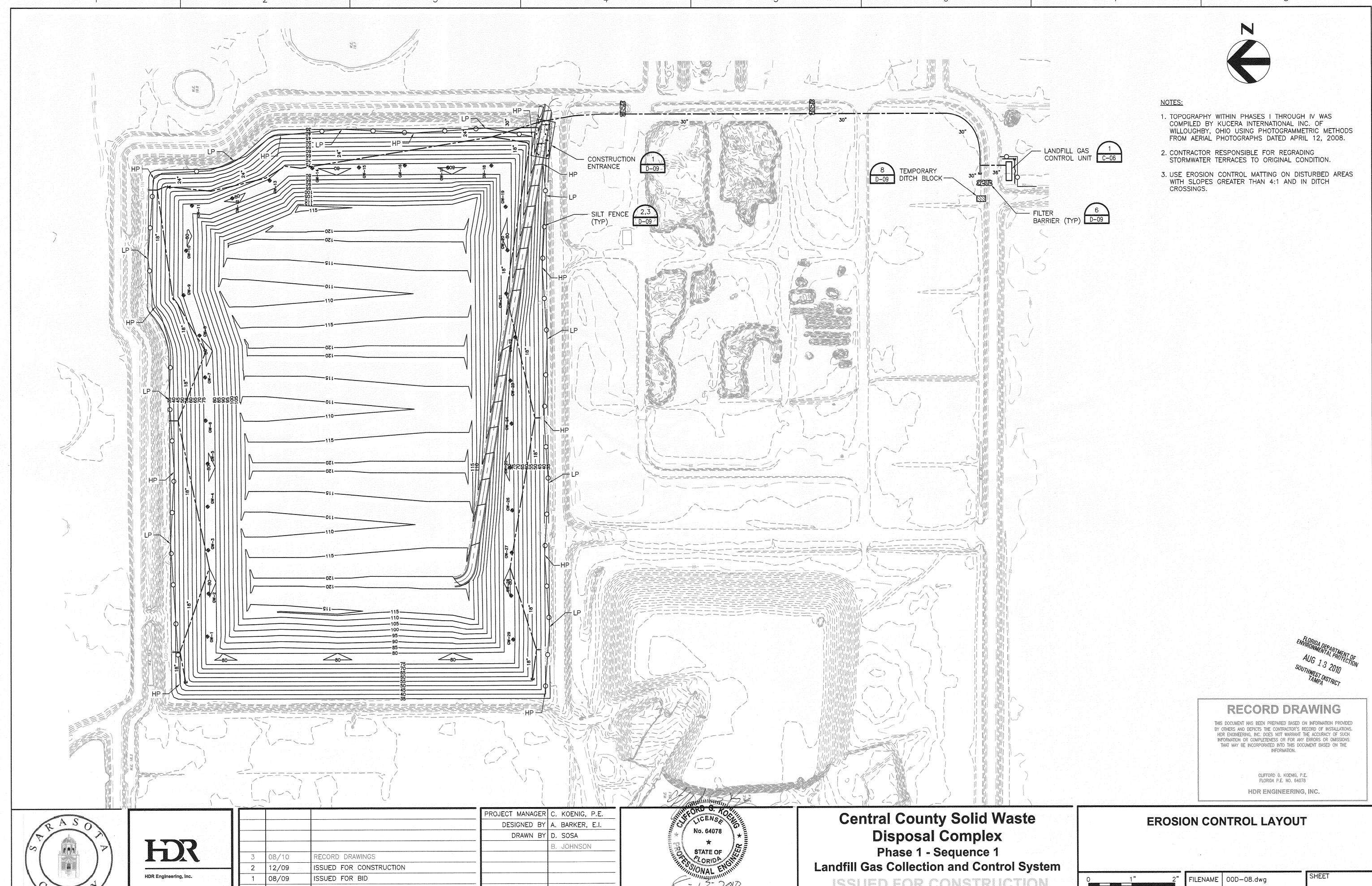


Central County Solid Waste Disposal Complex Phase 1 - Sequence 1 **Landfill Gas Collection and Control System** ISSUED FOR CONSTRUCTION

SARASOTA COUNTY

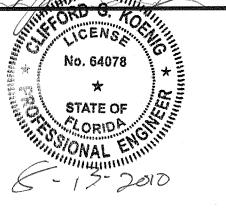


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0 05/09 ISSUED FOR CLIENT REVIEW DESCRIPTION

CHECKED BY . LEBRON, P.E. PROJECT NUMBER 101628



ISSUED FOR CONSTRUCTION SARASOTA COUNTY

AT FULL SIZE BAR LENGTH EQUAL INCHES. ADJUST SCALE ACCORDIN

2"		00D-08.dwg
S TWO NGLY.	SCALE	1" = 150'

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