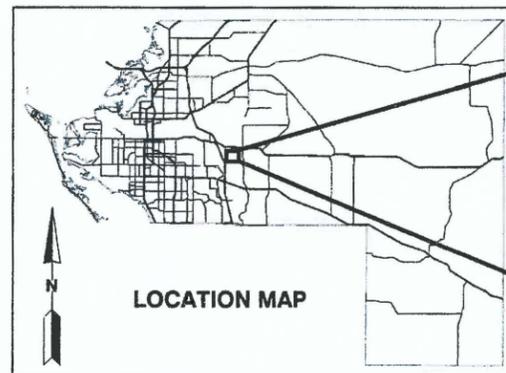


2017 PHASE III GCCS EXPANSION STAGE III - LENA ROAD LANDFILL MANATEE COUNTY, FLORIDA

RFP# 11-2064 FL

PREPARED FOR

MANATEE COUNTY UTILITIES DEPARTMENT
3333 LENA ROAD
BRADENTON, FLORIDA



SITE LOCATION

DRAWING NO.	DRAWING TITLE
1	COVER SHEET
2	GENERAL NOTES AND SYMBOLS
3	EXISTING OVERALL SITE PLAN
4	EXISTING STAGE III SITE PLAN
5	PROPOSED SITE PLAN
6	DETAILS - 1
7	DETAILS - 2
8	DETAILS - 3
9	DETAILS - 4
10	DETAILS - 5
11	DETAILS - 6
12	DETAILS - 7

**SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS**

4041 PARK OAKS BLVD., SUITE 100
TAMPA, FLORIDA 33610

PH NO. (813) 621-0080 FAX NO. (813) 623-6757
WWW.SCSENGINEERS.COM

WHEN DRAWINGS ARE REDUCED IN SIZE FROM
ORIGINAL 24"X36", SCALING WILL NOT BE
ACCURATE

BID DRAWINGS

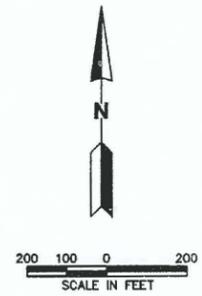
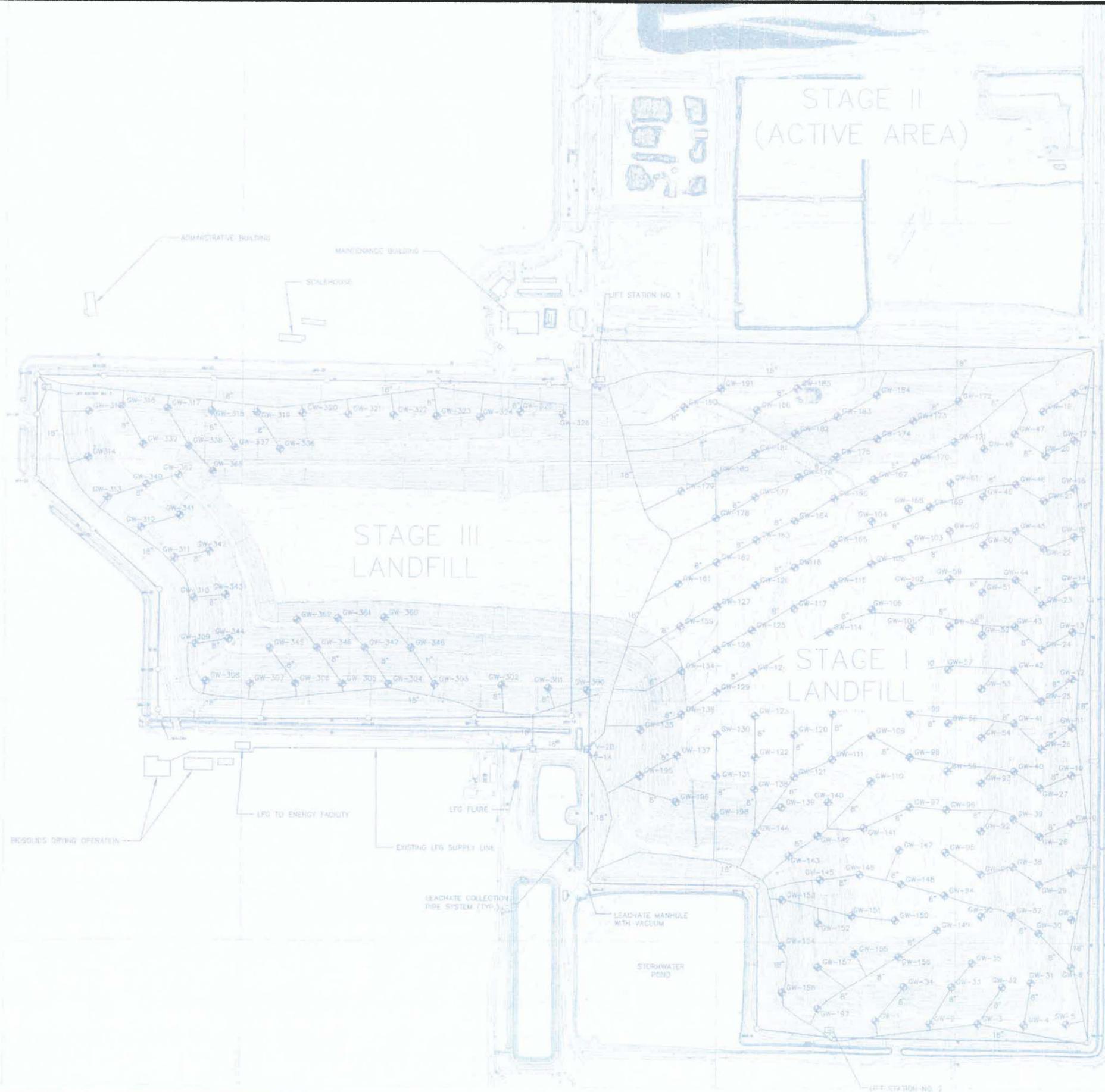
DATE: 05/05/2017



DANIEL R. COOPER, P.E.
LICENSE NO. 66440

G:\PROJECTS\Manatee\082113\05 GCCS Design\0808 Drawings\Sheet 1 - Cover Sheet.dwg May 05, 2017 - 5:09pm By: 4282rj

G:\PROJECT\Manatee\0921413.05 GCCS Design\100% Drawings\Sheet 3 - Overall Existing Site Conditions.dwg May 05, 2017 - 4:51pm Layout Name: Sheet 3 - Overall Existing By: 4283.mjt



- LEGEND**
- GW-310 EXISTING LFG EXTRACTION WELL
 - 18" EXISTING LFG HEADER/LATERAL
 - MH-25 EXISTING MANHOLE
 - EXISTING LEACHATE COLLECTION PIPE
 - VS V-2A EXISTING VALVE

- REFERENCE:**
1. TOPOGRAPHIC SURVEY OBTAINED FROM I.F. ROOKS AND ASSOCIATES DATED 03/08/2017, 106 N.W. DRANE ST. PLANT CITY, FL 33566 (813)752-2113
 2. AS-BUILT GAS SYSTEM INFORMATION PROVIDED BY PBS&J DRAWING ENTITLED: "RECORD DRAWINGS, STAGE III PHASE II LANDFILL GAS COLLECTION SYSTEM, DECEMBER 5, 2011." AND "AS-BUILT SURVEY FOR LENA ROAD - STAGE III LANDFILL GAS COLLECTION SYSTEM, MARCH 16, 2009" BY SURVTECH SOLUTIONS.



REV	DATE	DESCRIPTION	CHK BY
1			
2			
3			
4			
5			

SHEET TITLE EXISTING OVERALL SITE PLAN
PROJECT TITLE 2017 PHASE III GCCS EXPANSION STAGE III LENA ROAD LANDFILL

CLIENT MANATEE COUNTY SOLID WASTE DIVISION

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
 PH NO (813) 821-0880 FAX NO. (813) 823-4757

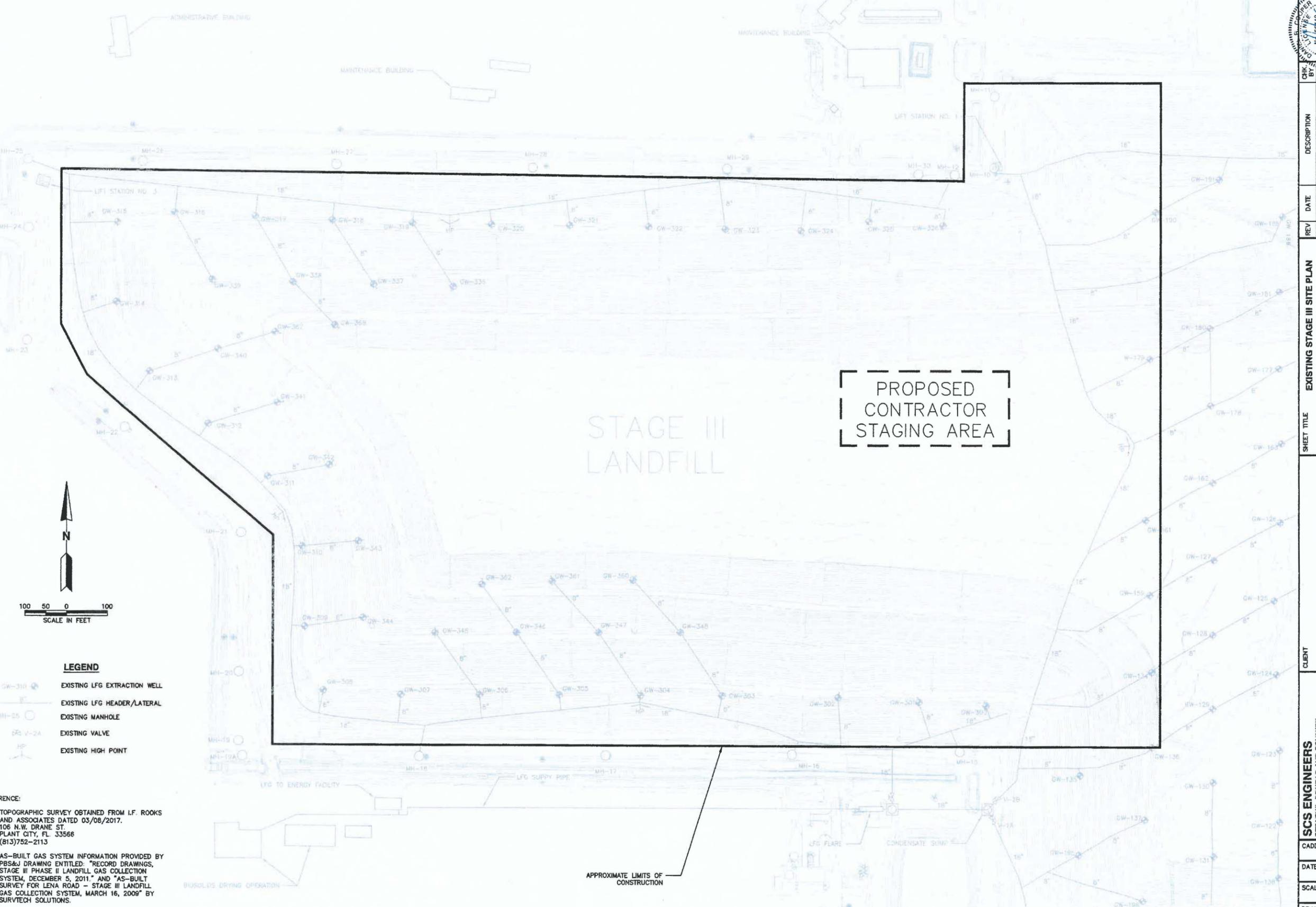
PROJ. NO. 13133.05
 DATE: 05/05/2017
 DRAWN BY: MWS
 CHECKED BY: AFD
 IN CHARGE: MWS
 O/A: RWB
 C/P: MWS
 APP: MWS
 DRC: MWS

CADD FILE:

DATE: MAY 2017
SCALE: AS SHOWN
DRAWING NO.: 3
SHEET 3 of 12

BID DRAWINGS
 DATE: 05/05/2017

G:\PROJECT\Manatee\0921413.05 GCCS Design\100% Drawings\Sheet 4 - Existing Stage 3 Site Plan.dwg May 05, 2017 - 4:58pm Layout Name: Sheet 3 - Existing Stage III By: 4283mjf



LEGEND

- GW-310 EXISTING LFG EXTRACTION WELL
- 8" EXISTING LFG HEADER/LATERAL
- MH-25 EXISTING MANHOLE
- HP EXISTING VALVE
- HP EXISTING HIGH POINT

REFERENCE:

1. TOPOGRAPHIC SURVEY OBTAINED FROM I.F. ROOKS AND ASSOCIATES DATED 03/08/2017, 106 N.W. DRANE ST PLANT CITY, FL 33566 (813)752-2113
2. AS-BUILT GAS SYSTEM INFORMATION PROVIDED BY PBS&J DRAWING ENTITLED: "RECORD DRAWINGS, STAGE III PHASE II LANDFILL GAS COLLECTION SYSTEM, DECEMBER 5, 2011," AND "AS-BUILT SURVEY FOR LENA ROAD - STAGE III LANDFILL GAS COLLECTION SYSTEM, MARCH 16, 2009" BY SURVITECH SOLUTIONS.
3. ALL EXISTING WELLS AND PIPING TO BE PROTECTED AS NEEDED SO CONTRACTOR CAN ACCESS THE CONTRACTOR STAGING AREA

PROPOSED
CONTRACTOR
STAGING AREA

STAGE III
LANDFILL

APPROXIMATE LIMITS OF
CONSTRUCTION

BID DRAWINGS

DATE: 05/05/2017

CRK BY: [Signature] DATE: 5/5/17	DESCRIPTION:	DATE:	REV:	SHEET TITLE: EXISTING STAGE III SITE PLAN PROJECT TITLE: 2017 PHASE III GCCS EXPANSION STAGE III LENA ROAD LANDFILL
CLIENT: MANATEE COUNTY SOLID WASTE DIVISION				
CADD FILE:				
DATE: MAY 2017 SCALE: AS SHOWN DRAWING NO. 4 SHEET 4 of 12				

G:\PROJECT\Manatee\0921413.05 GCCS Design\100% Drawings\Sheet 5 - Proposed Site Plan.dwg May 05, 2017 - 5:02pm Layout Name: Sheet 5 - Proposed By: 4283mjt



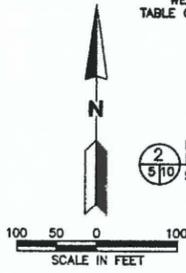
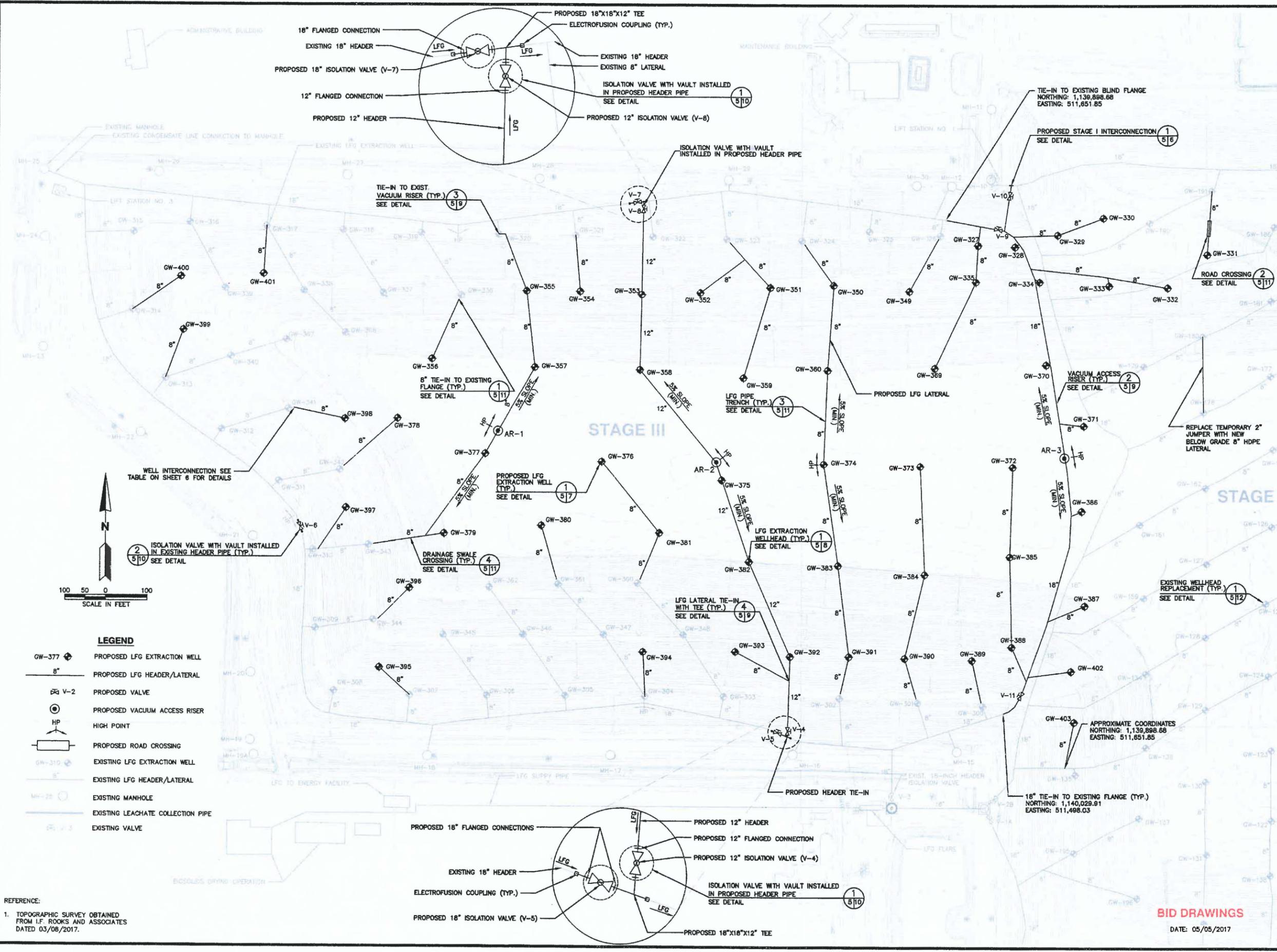
CHK. BY	DESCRIPTION
DATE	REV

SHEET TITLE	PROPOSED SITE PLAN
PROJECT TITLE	2017 PHASE III GCCS EXPANSION LENA ROAD LANDFILL

CLIENT	MANATEE COUNTY SOLID WASTE DIVISION
--------	--

CADD FILE:	DATE:
SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS PH: 813 821-9900 FAX: 813 822-9727 PROJECT NO. 09214133.05 DATE: 05/05/2017	MAY 2017

SCALE:	DRAWING NO.	SHEET
AS SHOWN	5	5 of 12



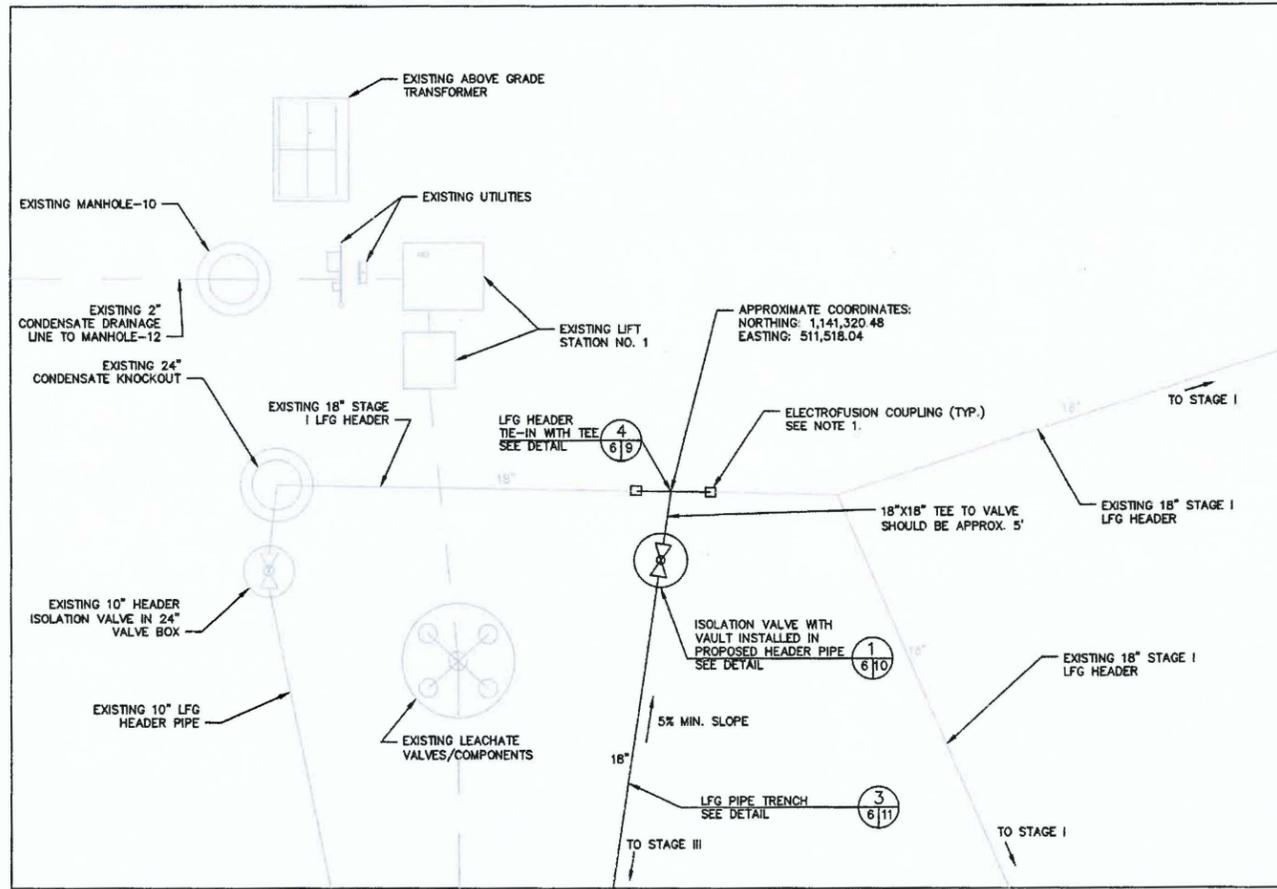
- LEGEND**
- GW-377 ◈ PROPOSED LFG EXTRACTION WELL
 - 8" PROPOSED LFG HEADER/LATERAL
 - V-2 PROPOSED VALVE
 - ◉ PROPOSED VACUUM ACCESS RISER
 - HP HIGH POINT
 - PROPOSED ROAD CROSSING
 - GW-310 ◈ EXISTING LFG EXTRACTION WELL
 - 8" EXISTING LFG HEADER/LATERAL
 - MH-25 ◉ EXISTING MANHOLE
 - EXISTING LEACHATE COLLECTION PIPE
 - EXISTING VALVE

REFERENCE:
1. TOPOGRAPHIC SURVEY OBTAINED FROM I.F. ROOKS AND ASSOCIATES DATED 03/08/2017.

BID DRAWINGS
DATE: 05/05/2017

WELL INTERCONNECTION SCHEDULE

Well ID	Type of Connection to Existing GCCS	Existing Well Tie-In Location
327	new 8" lateral to new 18" header	--
328	new 8" lateral to new 18" header	--
329	new 8" lateral to new 18" header	--
330	new 8" lateral to new 18" header	--
331	new 8" lateral to vacuum riser	GW-191
332	new 8" lateral	--
333	new 8" lateral	--
334	new 8" lateral to new 18" header	--
335	new 8" lateral	--
349	new 8" lateral to buried blind flange	GW-326
350	new 8" lateral to buried blind flange	GW-324
351	new 8" lateral to buried blind flange	GW-323
352	new 8" lateral to new 8" lateral	--
353	on new 12" header	--
354	new 8" lateral to existing vacuum riser	GW-321
355	new 8" lateral to existing vacuum riser	GW-320
356	new 8" lateral to buried blind flange	GW-336
357	new 8" lateral to new 8" lateral	--
358	on new 12" header	--
359	new 8" lateral to new 8" lateral	--
360	new 8" lateral to new 8" lateral	--
369	new 8" lateral to new 8" lateral	--
370	new 8" lateral to new 18" header	--
371	new 8" lateral to new 18" header	--
372	new 8" lateral to new 8" lateral	--
373	new 8" lateral to new 8" lateral	--
374	new 8" lateral to new 8" lateral	--
375	on new 12" header	--
376	new 8" lateral to new 8" lateral	--
377	new 8" lateral to new 8" lateral	--
378	new 8" lateral to buried blind flange	GW-342
379	new 8" lateral to buried blind flange	GW-343
380	new 8" lateral to buried blind flange	GW-361
381	new 8" lateral to buried blind flange	GW-360
382	on new 12" header	--
383	new 8" lateral to new 8" lateral	--
384	new 8" lateral to new 8" lateral	--
385	new 8" lateral to new 8" lateral	--
386	new 8" lateral to new 18" header	--
387	new 8" lateral to new 18" header	--
388	new 8" lateral to new 18" header	--
389	new 8" lateral to buried blind flange	GW-300
390	new 8" lateral to buried blind flange	GW-301
391	new 8" lateral to buried blind flange	GW-302
392	on new 12" header	--
393	new 8" lateral to new 12" header	--
394	new 8" lateral to existing vacuum riser	GW-304
395	new 8" lateral to existing vacuum riser	GW-307
396	new 8" lateral to buried blind flange	GW-344
397	new 8" lateral to existing vacuum riser	GW-310
398	new 8" lateral to buried blind flange	GW-341
399	new 8" lateral to existing vacuum riser	GW-313
400	new 8" lateral to existing vacuum riser	GW-314
401	new 8" lateral to existing vacuum riser	GW-317
402	new 8" lateral to new 18" header	--
403	new 8" lateral to existing vacuum riser	GW-135



NOTES:
 1. ELECTROFUSION COUPLINGS TO BE INSTALLED DIRECTLY TO 18-INCH TEE FITTING TO MINIMIZE EXCAVATION. DRAWING SHOWN ILLUSTRATES CONNECTIONS AND IS NOT TO SCALE.

PROPOSED STAGE I INTERCONNECTION DETAIL 1/5/8
 NOT TO SCALE



CHK BY	DESCRIPTION	DATE	REV

DETAILS - 1
 PROJECT TITLE
**2017 PHASE III GCCS EXPANSION
 STAGE III
 LENA ROAD LANDFILL**

CLIENT
**MANATEE COUNTY
 SOLID WASTE DIVISION**

SCS ENGINEERS
 STEARNS, CONRAD AND SCHMIDT
 CONSULTING ENGINEERS
 4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
 PH NO. (813) 921-0000 FAX NO. (813) 923-8757
 PROJ. NO. 1333.05
 DATE: 05/05/2017
 DWG. BY: WUS
 CHK. BY: AFD
 APP. BY: JFL
 WUS/DRG

CADD FILE:
 DETAILS
 DATE:
 MAY 2017
 SCALE:
 AS SHOWN
 DRAWING NO.
6
 SHEET 6 of 12

BID DRAWINGS
 DATE: 05/05/2017

WELL SCHEDULE

Well ID	Northing	Easting	Approx. Ground Surface (ft)	Approx. Base Grade Elevation (ft)	Well Depth (ft)	Slotted Pipe Length (ft)	Solid Pipe Length Below Grade (ft)	Solid Pipe Length Above Grade (ft)	Total Solid Pipe Length (ft)	Thickness of Gravel Pack (ft)
GW - 327	1141171.95	511436.39	63	35	28	12	15	3	18	15
GW - 328	1141168.36	511527.83	63	35	28	12	15	3	18	15
GW - 329	1141197.35	511633.07	64	35	29	13	15	3	18	16
GW - 330	1141239.07	511746.05	77	35	42	26	15	3	18	29
GW - 331	1141158.18	512002.24	77	35	42	26	15	3	18	29
GW - 332	1141069.00	511904.00	84	35	49	33	15	3	18	36
GW - 333	1141073.61	511760.00	82	35	47	31	15	3	18	34
GW - 334	1141082.43	511588.79	78	35	43	27	15	3	18	30
GW - 335	1141082.58	511431.15	79	35	44	28	15	3	18	31
GW - 349	1141059.37	511266.50	83	35	48	32	15	3	18	35
GW - 350	1141073.58	511078.77	80	35	45	29	15	3	18	32
GW - 351	1141067.69	510924.28	80	35	45	29	15	3	18	32
GW - 352	1141054.61	510751.87	80	35	45	29	15	3	18	32
GW - 353	1141049.86	510665.76	80	35	45	29	15	3	18	32
GW - 354	1141057.09	510454.14	80	35	45	29	15	3	18	32
GW - 355	1141057.71	510322.29	79	35	44	28	15	3	18	31
GW - 356	1140891.32	510069.19	111	35	76	55	20	3	23	58
GW - 357	1140871.15	510343.27	111	35	76	55	20	3	23	58
GW - 358	1140866.12	510601.59	112	35	77	56	20	3	23	59
GW - 359	1140846.68	510858.95	112	35	77	56	20	3	23	59
GW - 360	1140865.34	511063.83	115	35	80	59	20	3	23	62
GW - 369	1140871.19	511330.05	116	35	81	60	20	3	23	63
GW - 370	1140879.48	511604.83	115	35	80	59	20	3	23	62
GW - 371	1140730.85	511697.78	116	35	81	60	20	3	23	63
GW - 372	1140629.42	511522.25	116	35	81	60	20	3	23	63
GW - 373	1140631.21	511293.82	116	35	81	60	20	3	23	63
GW - 374	1140636.06	511054.52	116	35	81	60	20	3	23	63
GW - 375	1140596.44	510805.66	115	35	80	59	20	3	23	62
GW - 376	1140641.30	510508.44	115	35	80	59	20	3	23	62
GW - 377	1140660.50	510221.57	114	35	79	58	20	3	23	61
GW - 378	1140746.06	510005.12	113	35	78	57	20	3	23	60
GW - 379	1140465.56	510120.31	111	35	76	55	20	3	23	58
GW - 380	1140485.14	510360.26	112	35	77	56	20	3	23	59
GW - 381	1140467.88	510650.31	113	35	78	57	20	3	23	60
GW - 382	1140398.80	510872.97	114	35	79	58	20	3	23	61
GW - 383	1140389.52	511089.90	114	35	79	58	20	3	23	61
GW - 384	1140368.16	511305.05	114	35	79	58	20	3	23	61
GW - 385	1140411.84	511514.77	112	35	77	56	20	3	23	59
GW - 386	1140522.49	511692.38	115	35	80	59	20	3	23	62
GW - 387	1140292.59	511699.77	113	35	78	57	20	3	23	60
GW - 388	1140192.28	511519.63	80	35	45	29	15	3	18	32
GW - 389	1140159.63	511421.91	74	35	39	23	15	3	18	26
GW - 390	1140163.69	511255.27	73	35	38	22	15	3	18	25
GW - 391	1140167.52	511116.74	73	35	38	22	15	3	18	25
GW - 392	1140167.69	510973.40	73	35	38	22	15	3	18	25
GW - 393	1140179.52	510840.00	74	35	39	23	15	3	18	26
GW - 394	1140178.37	510610.32	73	35	38	22	15	3	18	25
GW - 395	1140138.55	509961.83	64	35	29	13	15	3	18	16
GW - 396	1140332.47	510035.47	93	35	58	37	20	3	23	40
GW - 397	1140527.26	509677.98	76	35	41	25	15	3	18	28
GW - 398	1140744.71	509874.81	93	35	58	37	20	3	23	40
GW - 399	1140960.58	509474.39	74	35	39	23	15	3	18	26
GW - 400	1141091.56	509468.10	75	35	40	24	15	3	18	27
GW - 401	1141099.12	509673.72	75	35	40	24	15	3	18	27
GW - 402	1140133.07	511666.38	79	35	44	28	15	3	18	31
GW - 403	1140008.83	511673.70	73	35	38	22	15	3	18	25
TOTALS					3222	2196	970	168	1138	2364

NOTES:

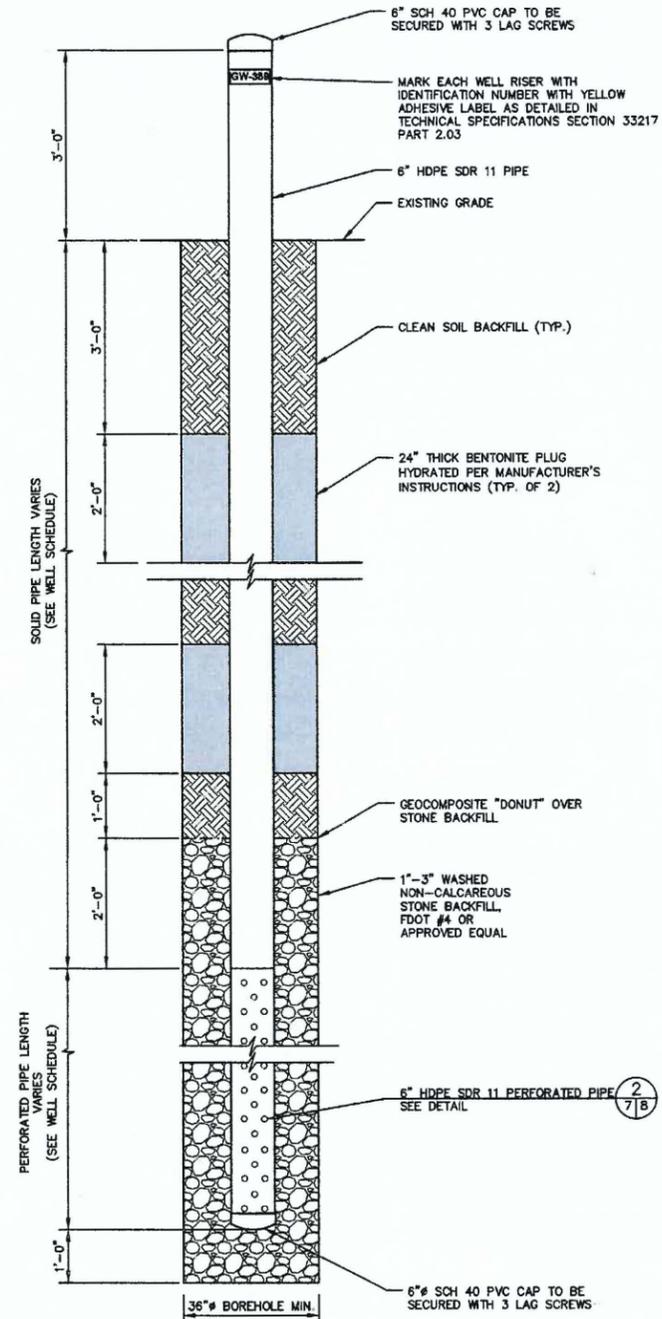
- CONTRACTOR SHALL SURVEY THE PROPOSED WELL LOCATIONS AND PROVIDE THE EXISTING GROUND SURFACE ELEVATION AT EACH LOCATION TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WELL DRILLING.
- ENGINEER SHALL ADJUST WELL SCHEDULE AS NECESSARY BASED ON THE PRE-CONSTRUCTION SURVEY.
- ALL SIGNATURES REQUIRED ON THE FINAL WELL SCHEDULE PRIOR TO COMMENCEMENT OF DRILLING.

COA INSPECTOR _____ DATE _____

DRILLER _____ DATE _____

ENGINEER _____ DATE _____

COUNTY REPRESENTATIVE _____ DATE _____



NOTES:

- PVC CAP TO BE SCREWED TO NEW WELL UNTIL WELL CAN BE CONNECTED TO VACUUM.
- BENTONITE TO BE HYDRATED AS IT IS ADDED TO BORING.
- GEOCOMPOSITE RING TO BE INSTALLED OVER GRAVEL AND TAMPERED IN PLACE BEFORE BACKFILLING.

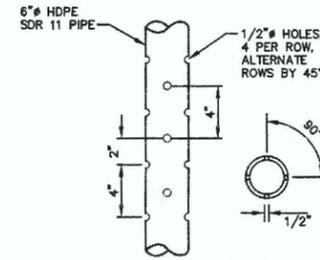
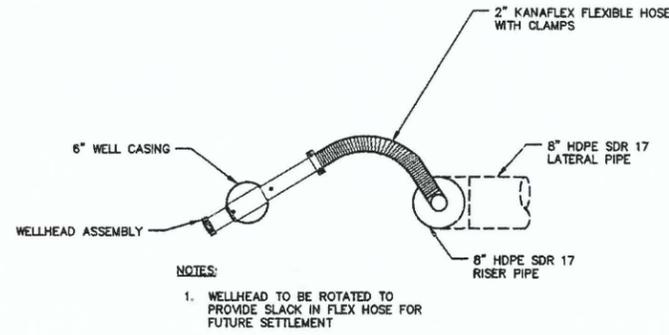
LFG EXTRACTION WELL DETAIL 1/817
NOT TO SCALE



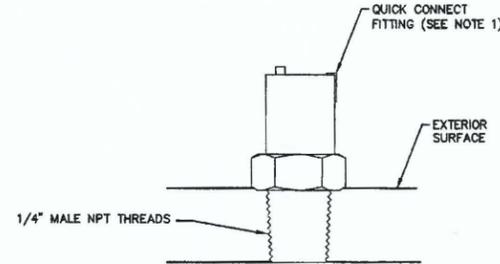
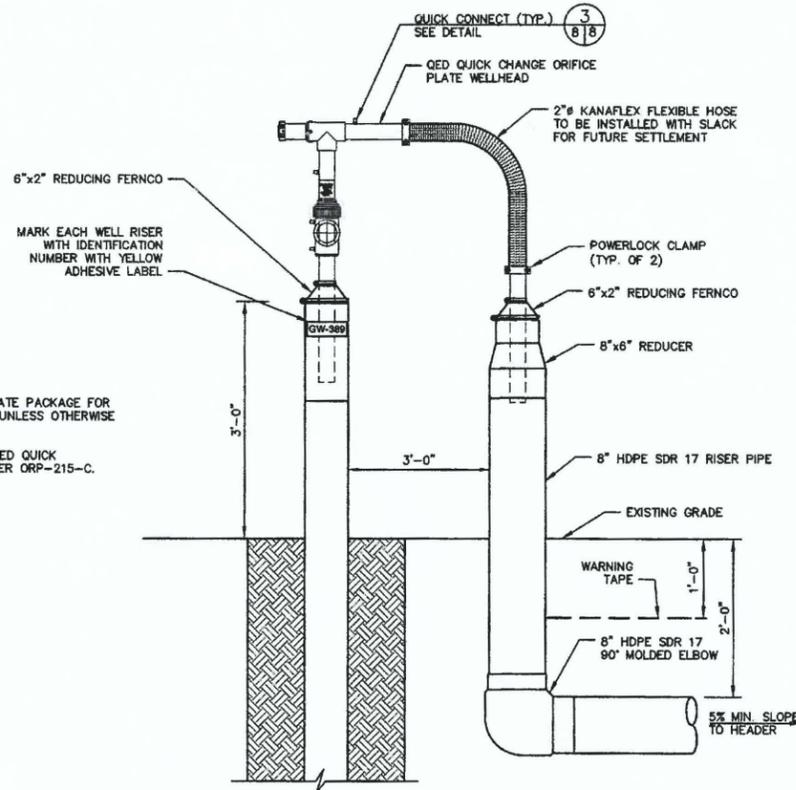
CHK BY	DESCRIPTION	DATE	REV
DETAILS - 2			
SHEET TITLE		PROJECT TITLE	
MANATEE COUNTY		2017 PHASE III GCCS EXPANSION	
SOLID WASTE DIVISION		STAGE III	
		LENA ROAD LANDFILL	
CLIENT			
SCS ENGINEERS			
STEARNS, CONRAD AND SCHMIDT			
CONSULTING ENGINEERS			
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610			
PH NO. (813) 851-0986 FAX NO. (813) 852-6757			
PROJ. NO.	DRAW. NO.	C/A. REV. BY	DRC
17-1133.05	08-87	MS	MS
W/S/DRC	MS	MS	MS
CADD FILE			
DETAILS			
DATE:			
MAY 2017			
SCALE:			
AS SHOWN			
DRAWING NO.			
7			
SHEET 7 of 12			

BID DRAWINGS
DATE: 05/05/2017

G:\PROJECT\Manatee\09214113.05 GCCS Design\100% Drawings\Details.dwg May 05, 2017 - 5:10pm Layout Name: Sheet 8 By: 4283mjt



6" HDPE SDR 11 PERFORATED PIPE DETAIL 2/7/8
NOT TO SCALE



QUICK CONNECT DETAIL 3/8/10/12
NOT TO SCALE



REV	DATE	DESCRIPTION
1		
2		
3		
4		
5		

CHK'D BY: [Signature]

SHEET TITLE: DETAILS - 3

PROJECT TITLE: 2017 PHASE III GCCS EXPANSION STAGE III LENA ROAD LANDFILL

CLIENT: MANATEE COUNTY SOLID WASTE DIVISION

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK CARS BLVD., SUITE 100, TAMPA, FL 33610
PH: (813) 621-0080 FAX: (813) 623-6757

PROJ. NO. 09214133.05
DRAWN BY: WJS
CHECKED BY: WJS/DFC

DATE: MAY 2017

SCALE: AS SHOWN

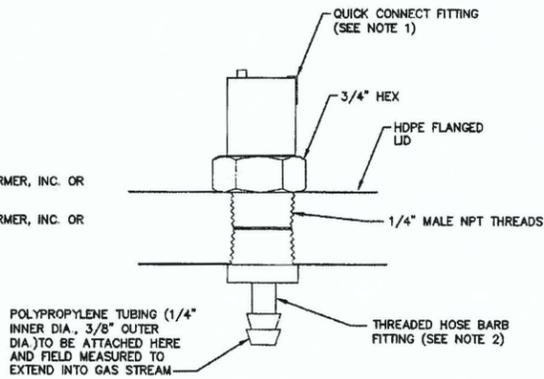
DRAWING NO. 8

SHEET 8 of 12

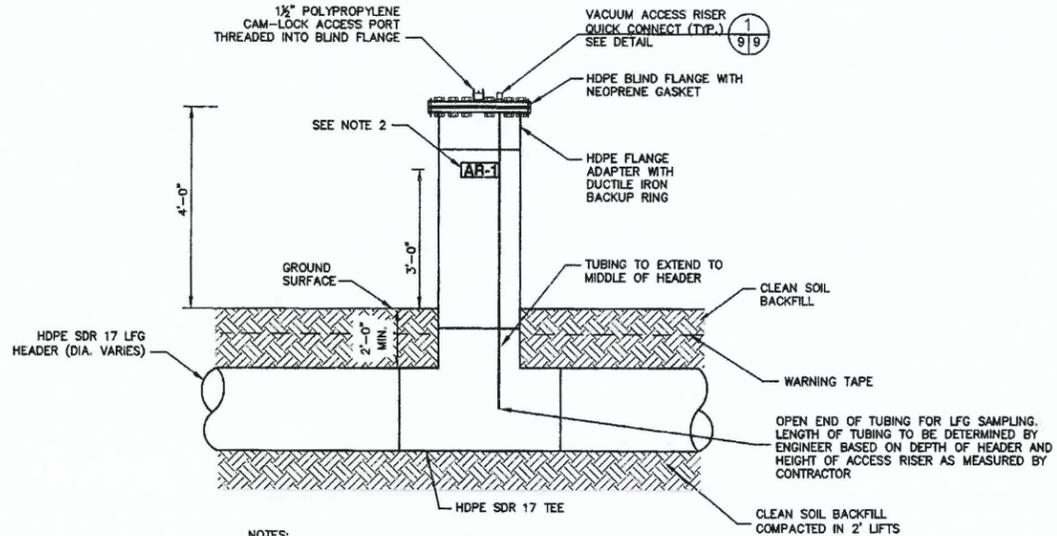
BID DRAWINGS
DATE: 05/05/2017

NOTES:

- PART NUMBER EW-06359-72 BY COLE-PARMER, INC. OR APPROVED EQUIVALENT.
- PART NUMBER EW-34030-78 BY COLE-PARMER, INC. OR APPROVED EQUIVALENT.



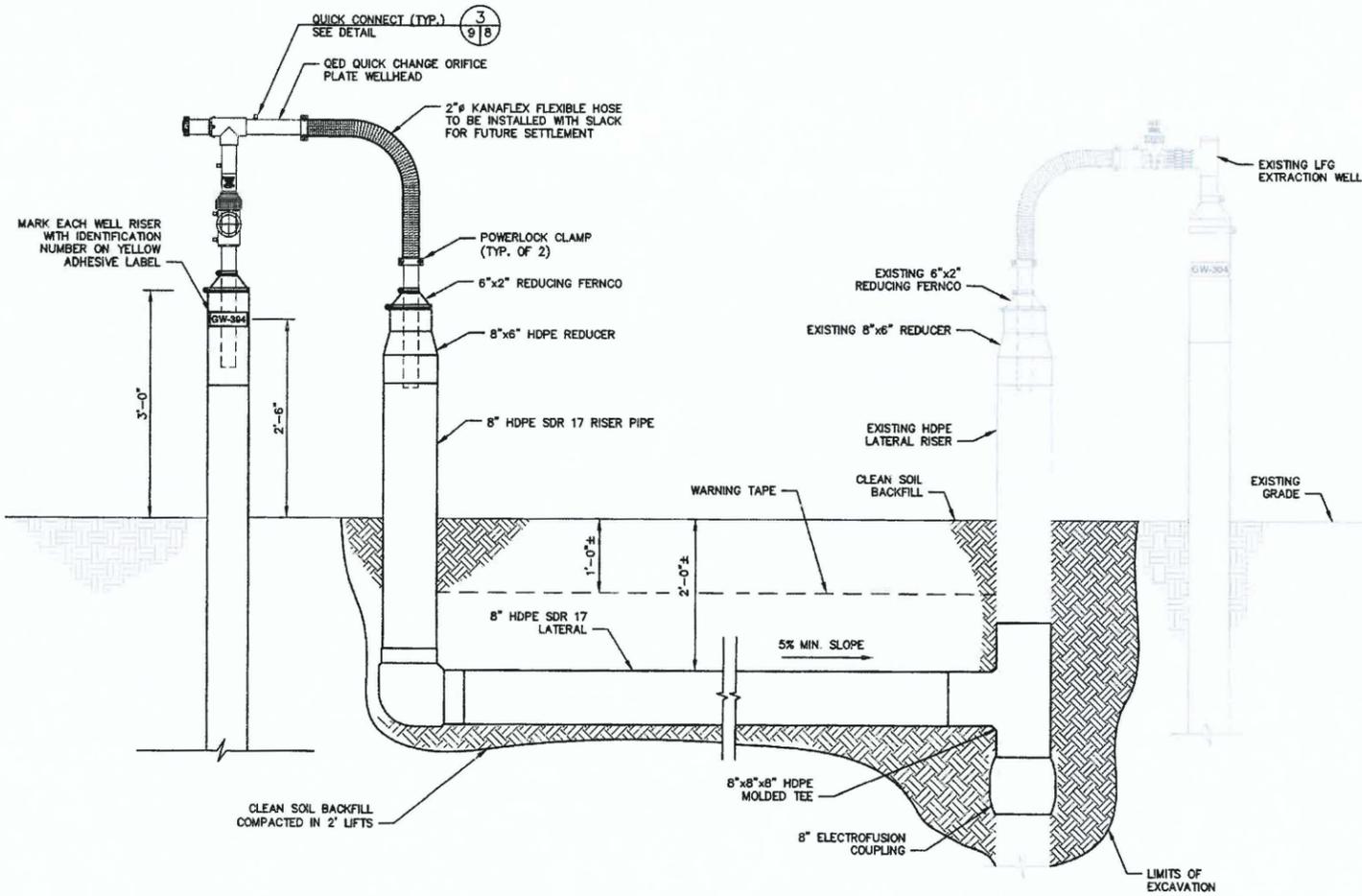
VACUUM ACCESS RISER QUICK CONNECT DETAIL (1)
NOT TO SCALE



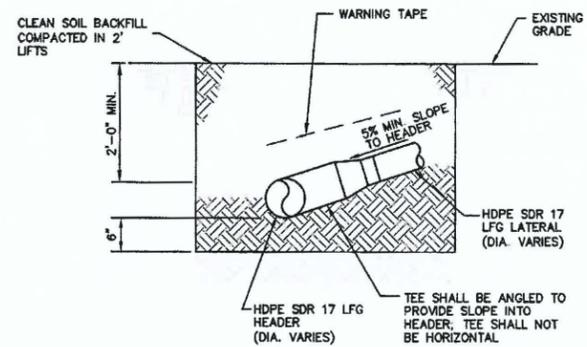
NOTES:

- DIAMETER OF ACCESS RISER TO MATCH THE HEADER DIAMETER.
- IDENTIFY EACH ACCESS RISER WITH IDENTIFICATION NUMBER ON YELLOW ADHESIVE LABEL. SEE SPECIFICATIONS SECTION 33217 PART 2.03.

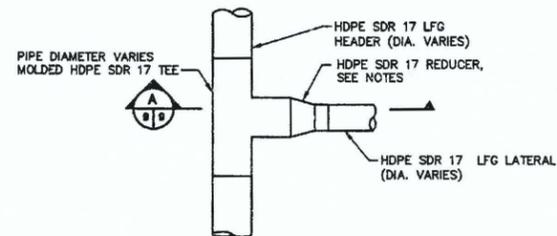
VACUUM ACCESS RISER DETAIL (2)
NOT TO SCALE



TIE-IN TO EXISTING VACUUM RISER DETAIL (3)
NOT TO SCALE



SECTION VIEW (A)
NOT TO SCALE



LFG HEADER/LATERAL TIE-IN WITH TEE DETAIL (4)
NOT TO SCALE

NOTES:

- CONSECUTIVE SIZE REDUCERS SHALL BE USED TO TRANSITION FROM THE FULL SIZE TEE TO THE LRG LATERAL. FOR EXAMPLE, TO TRANSITION FROM A 12 inch TEE, A 12 inch x 10 inch REDUCER AND 10 inch x 8 inch REDUCER SHALL BE INSTALLED.
- FULL SIZE MOLDED HDPE TEES SHALL BE INSTALLED FOR ALL TIE-INS OF LATERALS TO HEADER SMALLER THAN 12 inch. TEE SHALL BE ANGLED TO MAINTAIN SLOPE INTO THE HEADER AS SHOWN IN SECTION VIEW. FABRICATED FULL SIZE TEES SHALL BE USED FOR ALL HEADER GREATER THAN 12 inch.
- ALL HEADER, LATERAL, AND FITTINGS SHALL HAVE A MINIMUM URINAL DEPTH OF 2 FEET.

BID DRAWINGS

DATE: 05/05/2017



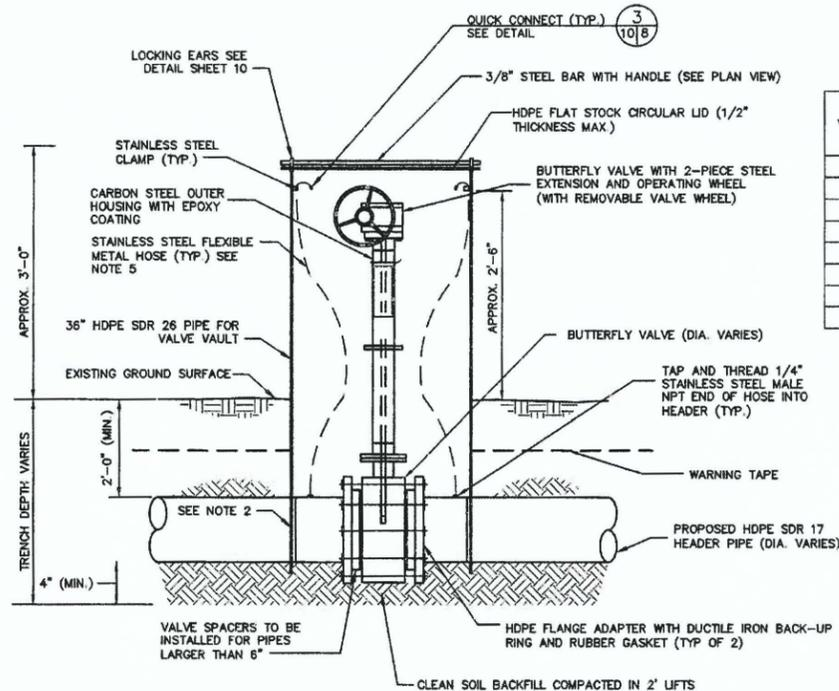
CHK BY	DESCRIPTION	DATE	REV

DETAILS - 4
PROJECT TITLE
2017 PHASE III GCCS EXPANSION STAGE III
LENA ROAD LANDFILL

MANATEE COUNTY SOLID WASTE DIVISION

CLIENT
SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
4041 PARK OAKS BLVD., SUITE 100, TAMPA, FL 33610
PH NO. (813) 621-0000 FAX NO. (813) 623-6757

CADD FILE	DETAILS
DATE	MAY 2017
SCALE	AS SHOWN
DRAWING NO.	9
SHEET	9 of 12



NOTES:

1. THOROUGHLY COAT ENTIRE SURFACE OF BOLTS, WASHERS, NUTS AND BACKUP RINGS WITH POLYCOAT RUBBERIZED PRIMER, OR EQUAL, AFTER TIGHTENING BOLTS.
2. CUT OUT ARCH FOR PIPE (DIA. OF PIPE VARIES).
3. TOP OF VALVE STEM TO BE APPROXIMATELY 6" BELOW VAULT LID.
4. FOR VALVE IDENTIFICATION, AN ADHESIVE YELLOW LABEL MUST BE AFFIXED TO THE EXTERIOR OF VALVE VAULT IN A VISIBLE AREA. LABEL TO INCLUDE "LENA ROAD LANDFILL" AND VALVE NUMBER. SEE VALVE SCHEDULE ON SHEET 10.
5. SWAGelok STAINLESS STEEL FLEXIBLE METAL HOSE, PART NO. SS-FM4PMFF4 (LENGTH VARIES).

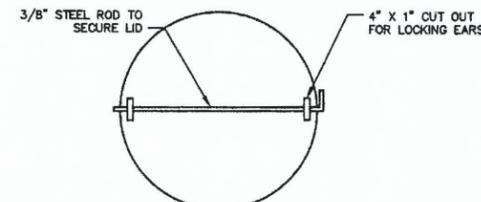
ISOLATION VALVE WITH VAULT INSTALLED IN PROPOSED HEADER PIPE DETAIL
NOT TO SCALE

VALVE SCHEDULE

Valve ID	Diameter (Inches)	Installed in Existing or New Pipe	Northing	Easting
V-4	12	New	1,139,986.34	510,967.56
V-5	18	Existing	1,139,981.92	510,943.62
V-6	18	Existing	1,140,481.05	509,764.82
V-7	18	Existing	1,141,275.94	510,593.93
V-8	12	New	1,141,259.78	510,608.89
V-9	18	New	1,141,210.98	511,485.59
V-10	18	New	1,141,294.41	511,514.04
V-11	18	New	1,140,077.72	511,544.24

PLAN VIEW

40" MIN.

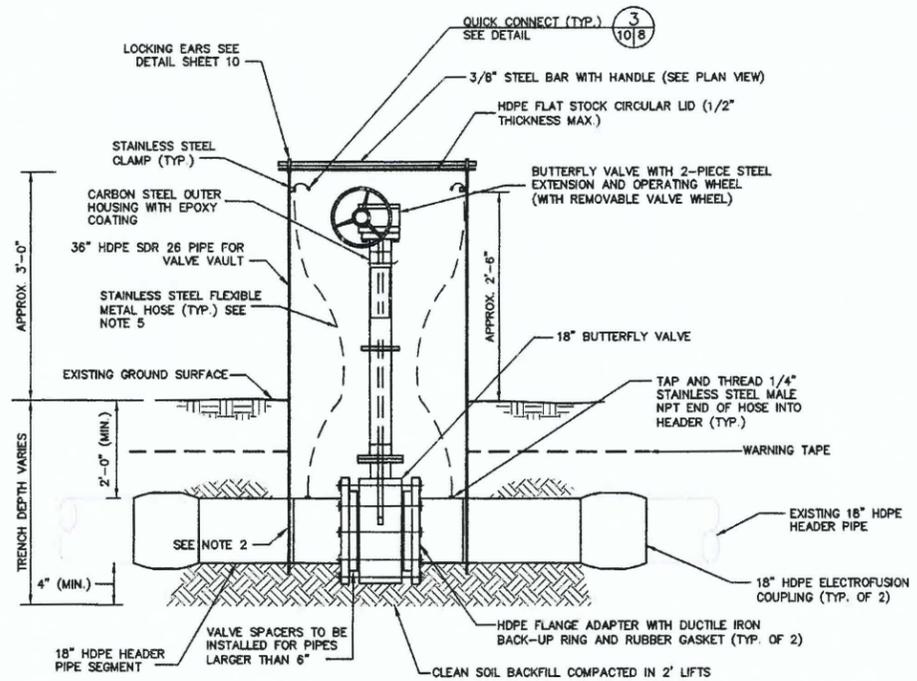
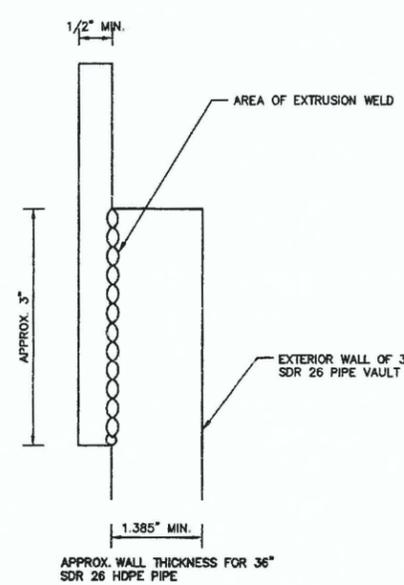


NOTES:

1. 4" X 1" CUTOUT ON 1/4" FLATSTOCK LID FOR LOCKING EARS TO FIT INTO.

LOCKING EAR DETAIL

SECTION VIEW

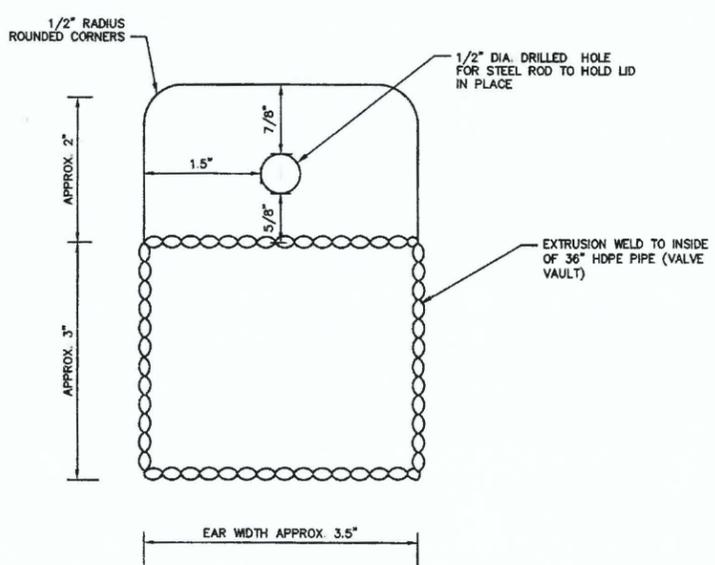


NOTES:

1. THOROUGHLY COAT ENTIRE SURFACE OF BOLTS, WASHERS, NUTS AND BACKUP RINGS WITH POLYCOAT RUBBERIZED PRIMER, OR EQUAL, AFTER TIGHTENING BOLTS.
2. CUT OUT ARCH FOR PIPE (DIA. OF PIPE VARIES).
3. TOP OF VALVE STEM TO BE APPROXIMATELY 6" BELOW VAULT LID.
4. FOR VALVE IDENTIFICATION, AN ADHESIVE YELLOW LABEL MUST BE AFFIXED TO THE EXTERIOR OF VALVE VAULT IN A VISIBLE AREA. LABEL TO INCLUDE "LENA ROAD LANDFILL" AND VALVE NUMBER. SEE VALVE SCHEDULE ON SHEET 10.
5. SWAGelok STAINLESS STEEL FLEXIBLE METAL HOSE, PART NO. SS-FM4PMFF4 (LENGTH VARIES).

ISOLATION VALVE WITH VAULT INSTALLED IN EXISTING HEADER PIPE DETAIL
NOT TO SCALE

PROFILE VIEW



BID DRAWINGS
DATE: 05/05/2017



CHK BY	DESCRIPTION	DATE	REV

DETAILS - 5

PROJECT TITLE
2017 PHASE III GCCS EXPANSION
STAGE III
LENA ROAD LANDFILL

SHEET TITLE
MANATEE COUNTY
SOLID WASTE DIVISION

CLIENT
SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
1000 PARK LANE
TAMPA, FL 33610
PH NO. (813) 821-0000 FAX NO. (813) 823-4757

CADD FILE:
DETAILS

DATE:
MAY 2017

SCALE:
AS SHOWN

DRAWING NO.:
10

SHEET 10 of 12

