

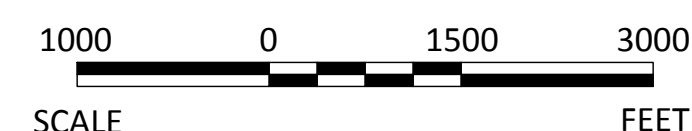
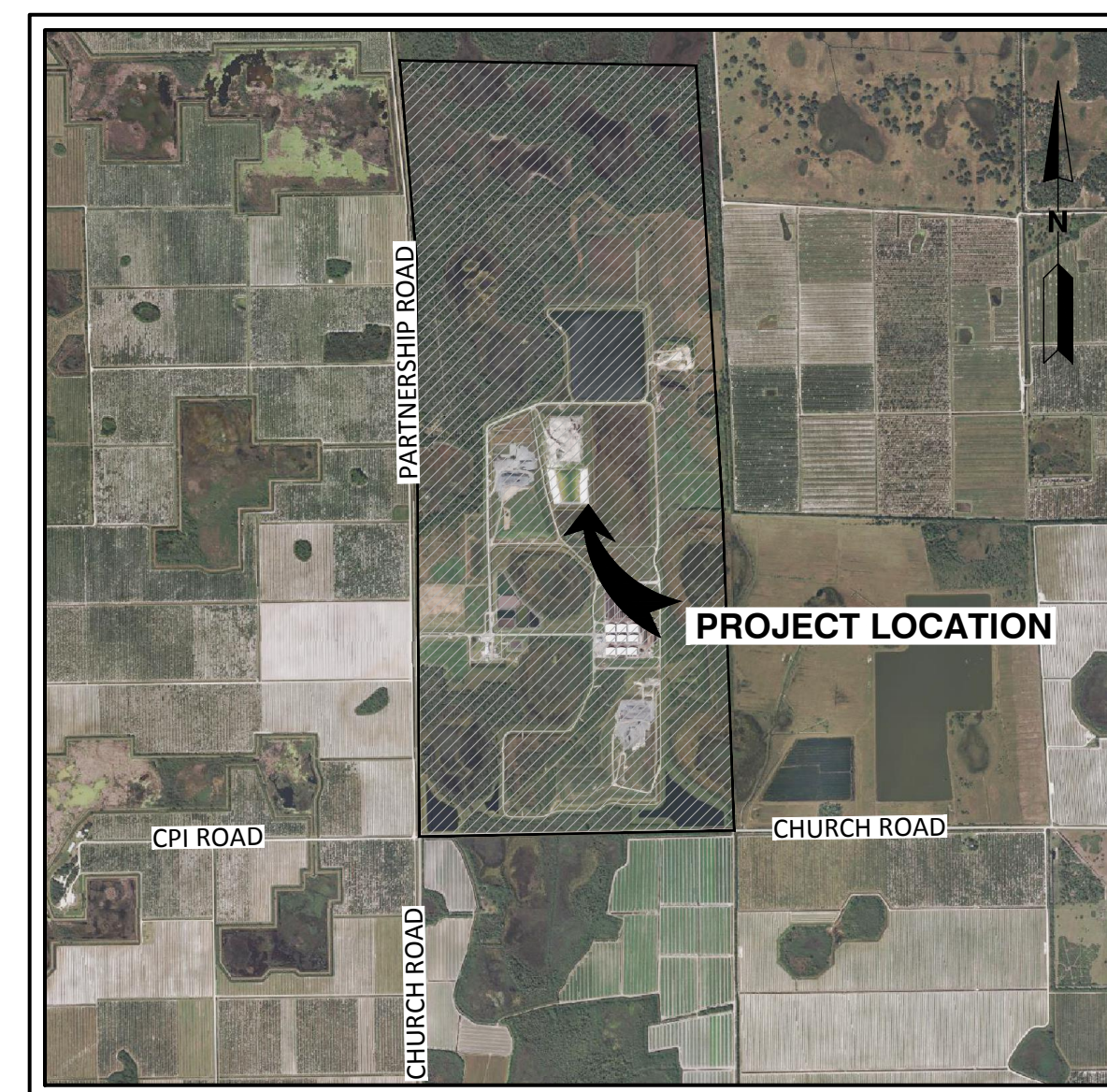
LEE HENDRY REGIONAL SOLID WASTE DISPOSAL FACILITY GAS COLLECTION AND CONTROL SYSTEM

FELDA, FLORIDA
JUNE 2024



LEE COUNTY BOARD OF COUNTY COMMISSION

DISTRICT 1	KEVIN RUANE
DISTRICT 2	CECIL PENDERGRASS
DISTRICT 3	RAY SANDELLI
DISTRICT 4	BRIAN HAMMAN
DISTRICT 5	MIKE GREENWELL



LOCATION MAP

SCS ENGINEERS

STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
3922 COCONUT PALM DRIVE, SUITE 102
TAMPA, FL 33619
PH. (813) 621-0080 FAX. (813) 623-6757
FLORIDA FIRM REGISTRATION: RY-4892
WWW.SCSENGINEERS.COM
SCS PROJECT NO. 09223126.00

INDEX OF SHEETS

SHEET NUMBER	SHEET TITLE
01	COVER
02	OVERALL EXISTING SITE PLAN
03	OVERALL PROPOSED SITE PLAN
04	BASE GRADES
05	PROPOSED GCCS CLASS III
06	PROPOSED BLOWER AND FLARE SITE PLAN - 1
07	PROPOSED BLOWER AND FLARE SITE PLAN - 2
08	PROPOSED SOD SITE PLAN
09	DETAILS - I
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11	DETAILS - III
12	DETAILS - IV
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14	DETAILS - VI
15	DETAILS - VII
16	DETAILS - VIII
17	DETAILS - IX
E1	ELECTRICAL LEGEND AND SCHEDULES
E2	ELECTRICAL ELEVATION
E3	ELECTRICAL PANEL SCHEDULES
E4	ELECTRICAL LINE DIAGRAM AND SCHEDULES
E5	ELECTRICAL SITE PLAN

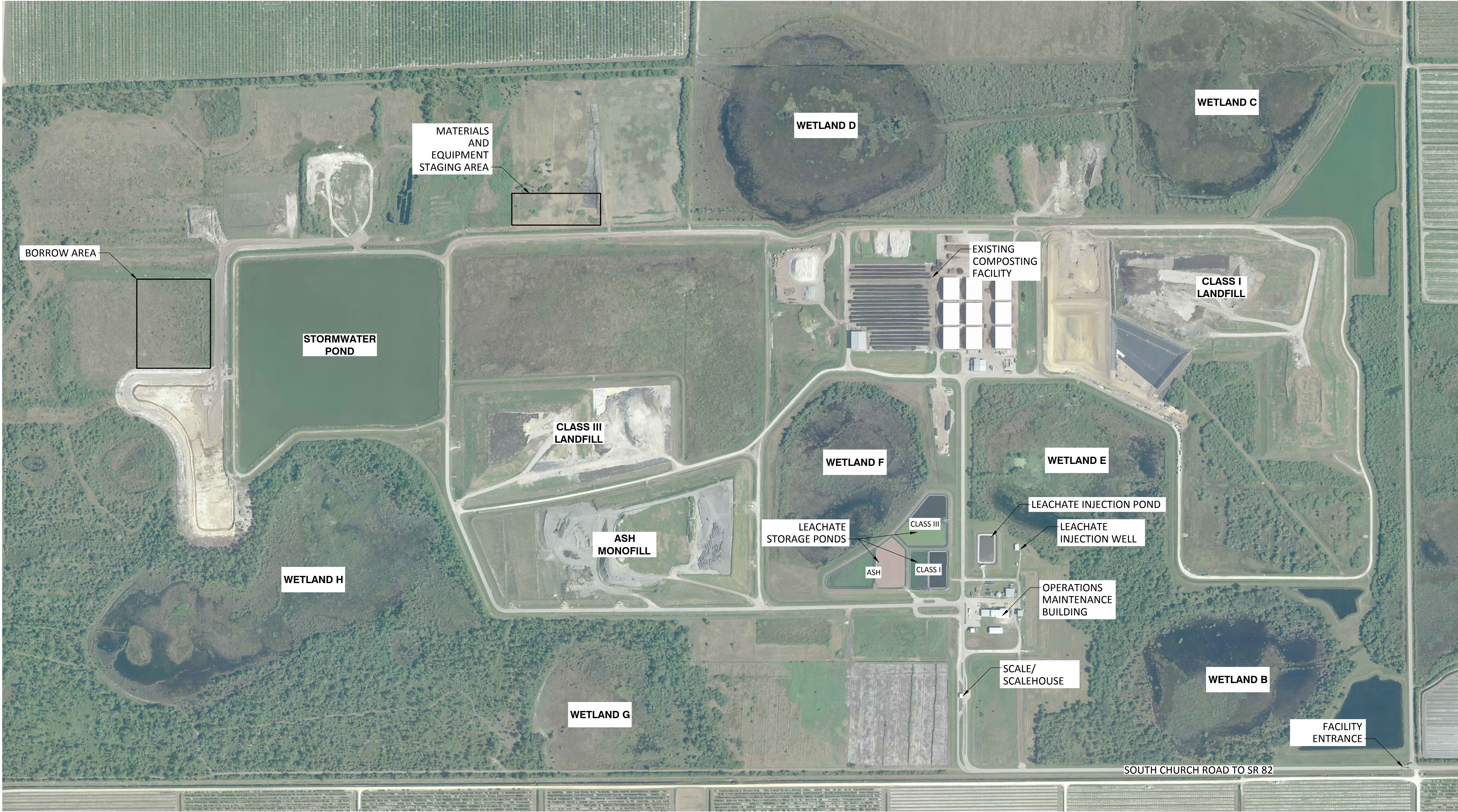
Always call 811 two full business days before you dig

Sunshine811.com

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DATE: 6/28/2024

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

\\\\tom-fs01\\Tampa\\Files\\PROJECT\\09223126.00\\Drawings\\engineering drawings\\02 - OVERALL SITE PLAN.dwg Jun 28, 2024 - 1:32pm Layout Name: 02 - OVERALL SITE PLAN By: 4708afv



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DATE: 6/28/2024

SCS ENGINEERS

STEARNS, CONRAD AND SCHMIDT

CONSULTING ENGINEERS

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PH (813) 821-0080 FAX NO. (813) 823-6757

FLORIDA FIRM REGISTRATION RY-4892

PROJECT NO. 09223126.00

DRAWN BY: TLR

CHECK BY: SML

DATE: 6/28/2024

QA/QC BY: AFV

APP. BY: SML

DRC

CADD FILE:
02 - OVERALL SITE PLAN

DATE:
JUNE 2024

SCALE:
AS SHOWN

DRAWING NO.
02

SHEET
02 of 22

CLIENT

LEE/HENDRY REGIONAL
SOLID WASTE DISPOSAL
FACILITY

5500 CHURCH RD.
FELDA, FL 33930

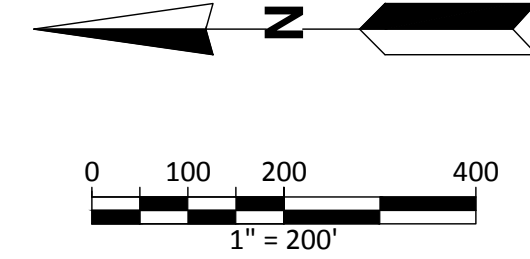
SHEET TITLE
OVERALL EXISTING SITE PLAN

PROJECT TITLE
LEE/HENDRY GAS COLLECTION
AND CONTROL SYSTEM

REV	DATE	DESCRIPTION	CHK. BY
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DANIEL R. COOPER, P.E.

LICENSE NO. 66440



LEGEND

- | | | |
|---|--------|---|
|  | EW-## | PROPOSED WELL - GAS EXTRACTION |
|  | HC-## | PROPOSED WELL - HORIZONTAL |
|  | AR-## | PROPOSED ACCESS RISER |
|  | ARV-## | PROPOSED AIR RELEASE VALVE |
|  | CS-## | PROPOSED CONDENSATE SUMP |
|  | LS-## | PROPOSED LIFT STATION |
|  | AV-## | PROPOSED VALVE - AIR SUPPLY |
|  | CV-## | PROPOSED VALVE - CONDENSATE DISCHARGE |
|  | HV-## | PROPOSED VALVE - HEADER / LATERAL |
|  | | PROPOSED HORIZONTAL COLLECTOR SUMP |
|  | | PROPOSED BLIND FLANGE |
|  | | PROPOSED HIGH POINT |
|  | | PROPOSED CONDENSATE DISCHARGE DUAL CLEANOUT |
|  | | PROPOSED ROAD CROSSING |
|  | | PROPOSED AIR SUPPLY PIPE |
|  | | PROPOSED CONDENSATE DISCHARGE PIPE |
|  | | PROPOSED LFG HEADER / LATERAL PIPE |
|  | | PROPOSED LFG HORIZONTAL COLLECTOR PIPE |
|  | | PROPOSED LFG ELECTRICAL LINE |
|  | | EXISTING CONTOURS |

NOTES:

1. AERIAL TOPOGRAPHY DATA PROVIDED BY: PICKETT SURVEYING ENGINEERING, FLIGHT DATE 10/03/2022.
2. CLASS III CELL 1 TOPOGRAPHIC DATA PROVIDED BY T2UTILITY ENGINEERS, SURVEY DATE 01/10/2024.
3. CLASS III CELL 2 AND 3 BASE GRADES DATA PROVIDED BY JONES EDMUNDS IN CAD DRAWING NAME "XR026-DSGN-2-3.DWG".
4. PROPOSED CLASS III CELL 2A (SEE "LEE/HENDRY COUNTY REGIONAL SOLID WASTE DISPOSAL FACILITY CELL 2A CLASS III LANDFILL" DRAWINGS PREPARED BY JONES EDMUNDS").

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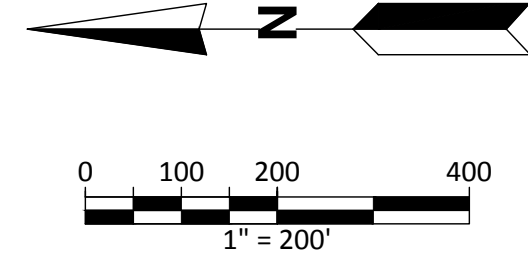
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NOTES

1. AERIAL TOPOGRAPHY DATA PROVIDED BY: PICKETT SURVEYING ENGINEERING, FLIGHT DATE 10/03/2022.
2. ASH MONOFILL AND CLASS III CELL 1 BASE GRADES DATA PROVIDED BY JONES EDMUNDS IN CAD DRAWING NAMED "023-LEE.DWG".
3. CLASS III CELL 2 AND 3 BASE GRADES DATA PROVIDED BY JONES EDMUNDS IN CAD DRAWING NAMED "XR026-DSGN-2-3.DWG".

ISSUED FOR BID
DATE: 6/28/2024



LEGEND

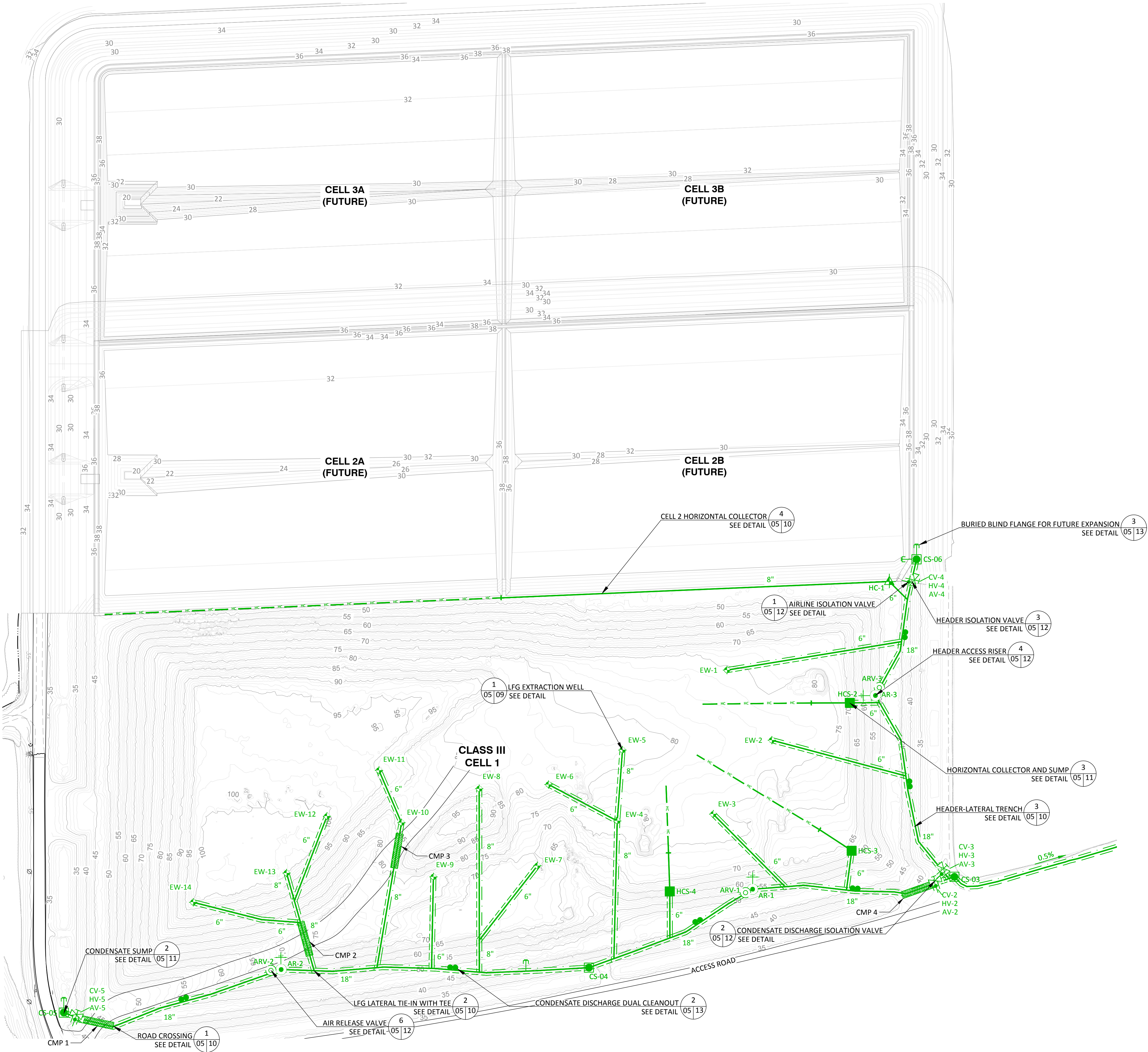
EW-##

— 20 —

PROPOSED WELL - GAS EXTRACTION
EXISTING CONTOURS

DRAWING NO. 04	SCALE: AS SHOWN		DATE: JUNE 2024		CADD FILE: 04 - BASE GRADES		SCS ENGINEERS STEARN, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 821-0080 FAX NO. (813) 823-6757 FLORIDA FIRM REGISTRATION RY-4892				CLIENT LEE/HENDRY REGIONAL SOLID WASTE DISPOSAL FACILITY 5500 CHURCH RD. FELDA, FL 33930		SHEET TITLE PROJECT TITLE LEE/HENDRY GAS COLLECTION AND CONTROL SYSTEM		CHK. BY		DANIEL R. COOPER, P.E. LICENSE NO. 566440

\\tom-fs01\tompa\Files\PROJECT\0923126.00\Drawings\engineering drawings\05 - PROPOSED GCCS CLASS III By: 4708atv Jun 28, 2024 - 1:34pm Layout Name: 05 - PROPOSED GCCS CLASS III



LEGEND

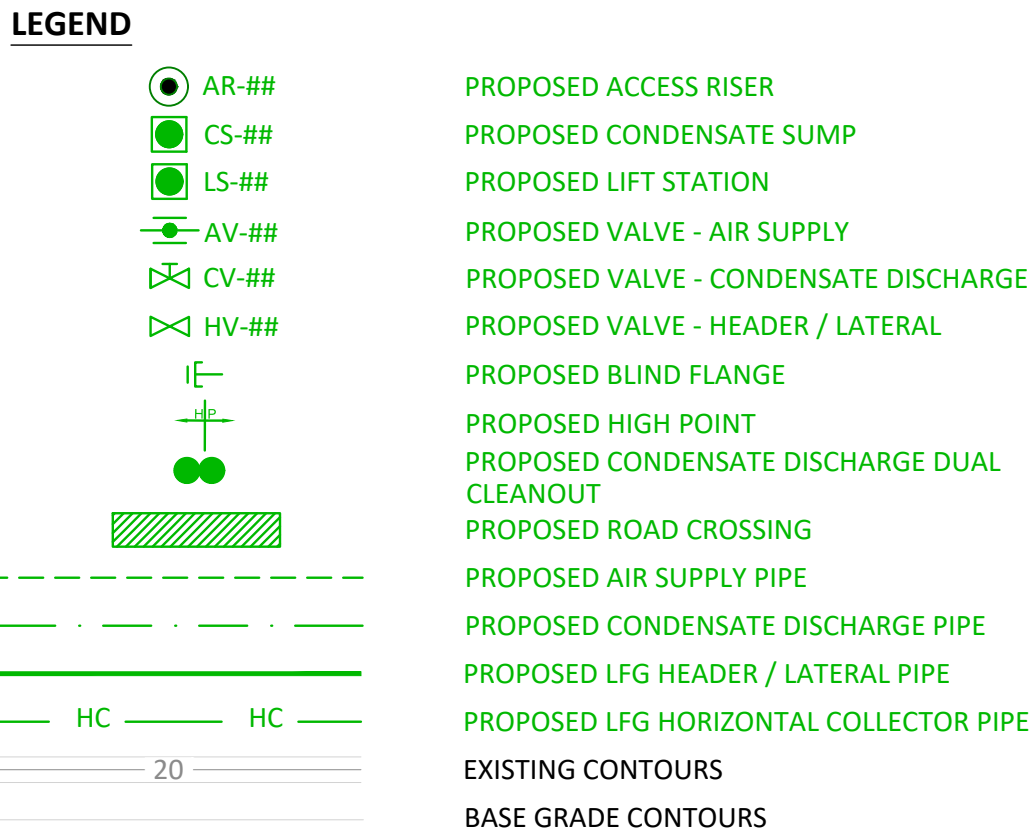
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| | HC-## | PROPOSED WELL - HORIZONTAL |
| | AR-## | PROPOSED ACCESS RISER |
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| | CV-## | PROPOSED VALVE - CONDENSATE DISCHARGE |
| | HV-## | PROPOSED VALVE - HEADER / LATERAL |
| | HCS-# | PROPOSED HORIZONTAL COLLECTOR SUMP |
| | | PROPOSED BLIND FLANGE |
| | | PROPOSED HIGH POINT |
| | | TRANSITION FROM SOLID TO PERFORATED PIPE |
| | | PROPOSED CONDENSATE DISCHARGE DUAL CLEANOUT |
| | | PROPOSED ROAD CROSSING |
| | | PROPOSED AIR SUPPLY PIPE |
| | | PROPOSED CONDENSATE DISCHARGE PIPE |
| | | PROPOSED LFG HEADER / LATERAL PIPE |
| | | PROPOSED LFG HORIZONTAL COLLECTOR PIPE |
| | | EXISTING CONTOURS |
| | | BASE GRADE CONTOURS |

NOTES:

- CLASS III CELL 1 TOPOGRAPHIC DATA PROVIDED BY T2UTILITY ENGINEERS, SURVEY DATE 01/10/2024.
- CLASS III CELL 2 AND 3 BASE GRADES DATA PROVIDED BY JONES EDMUNDS IN CAD DRAWING NAMED "XR026-DSGN-2-3.DWG".
- ALL HEADER/LATERAL PIPING TO BE A MINIMUM OF 0.5% SLOPE OUTSIDE OF THE LIMITS OF WASTE AND 5% SLOPE INSIDE THE LIMITS OF WASTE UNLESS APPROVED BY THE ENGINEER.
- ANY STORMWATER DRAINAGE DITCH, CULVERT OR ACCESS ROAD DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RETURNED TO IT'S ORIGINAL STATE WITHOUT ANY COST TO THE OWNER.
- ANY MODIFICATIONS FROM THE PROPOSED SITE PLAN SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- SEE DETAIL 1 SHEET 10 FOR ROAD CROSSING SCHEDULE AND CMP DIAMETERS.
- HORIZONTAL COLLECTOR PIPING AND SUMP ALIGNMENT/LOCATIONS TO BE FIELD VERIFIED BASED ON FILL OPERATIONS AT THE TIME OF CONSTRUCTION.

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DATE: 6/28/2024

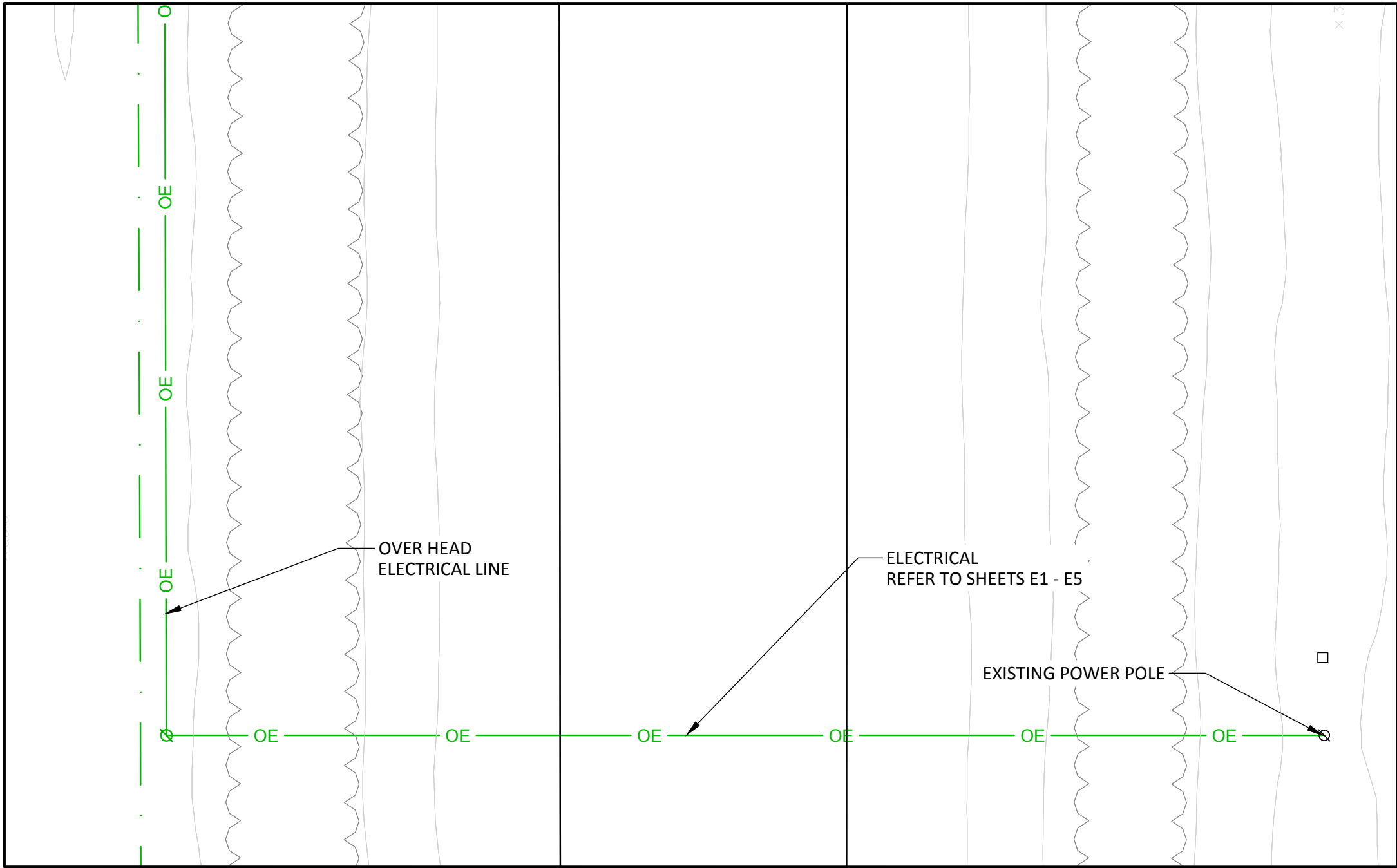
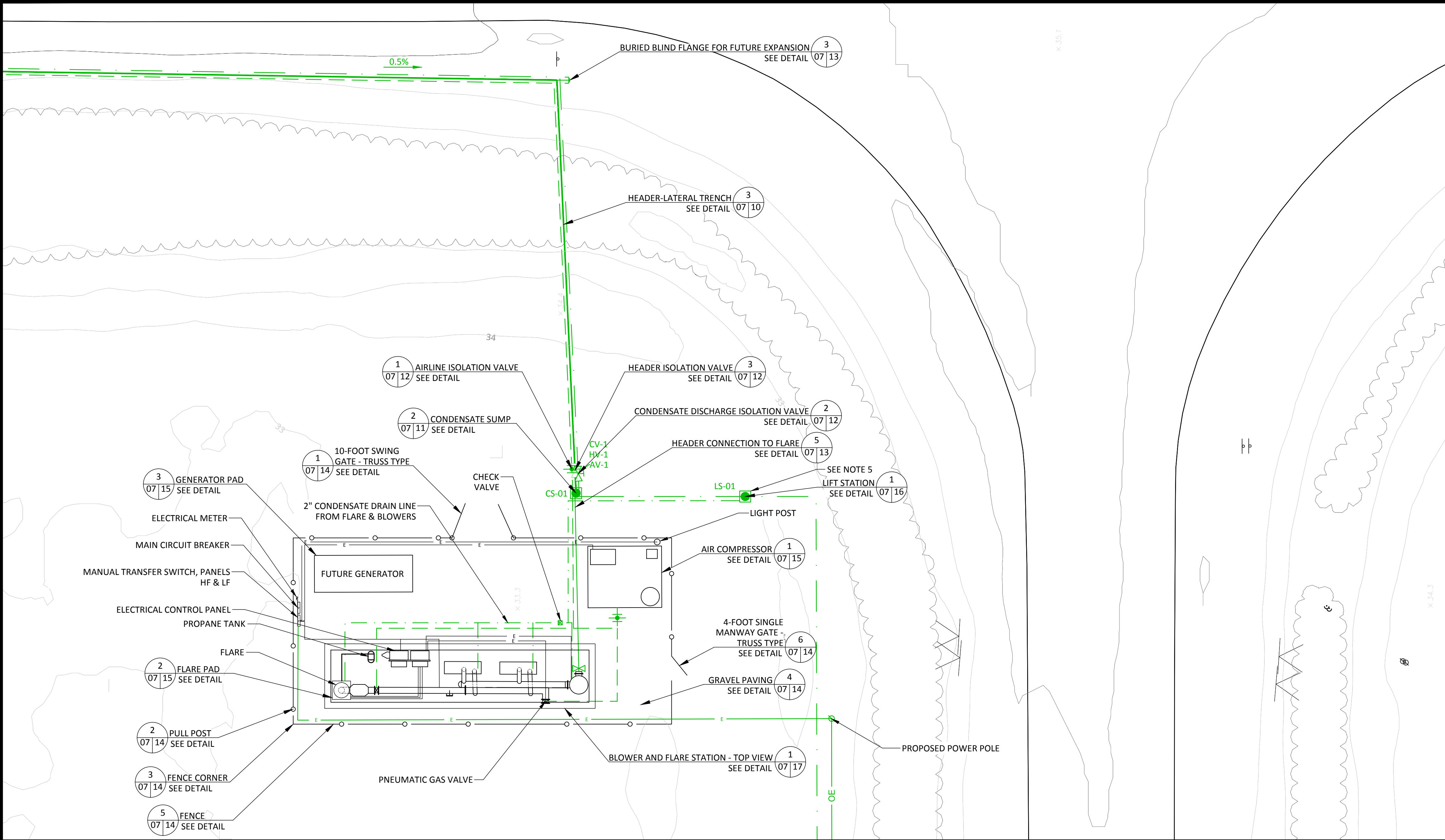
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CLIENT	SHEET TITLE		CHK. BY	
	LEE/HENDRY REGIONAL SOLID WASTE DISPOSAL FACILITY			
	PROJECT TITLE			
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	LEE/HENDRY REGIONAL SOLID WASTE DISPOSAL FACILITY			
	PROJECT TITLE			



- ISSUED FOR BID**
DATE: 6/28/2024

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

\\tom-fs01\tempo\Files\PROJECT\09223126.00\Drawings\engineering drawings\08 - PROPOSED BLOWER AND FLARE SITE PLAN - 2 By: 4708atv Jun 28, 2024 - 1:35pm Layout Name: 07 - PROPOSED BLOWER AND FLARE SITE PLAN - 2 By: 4708atv



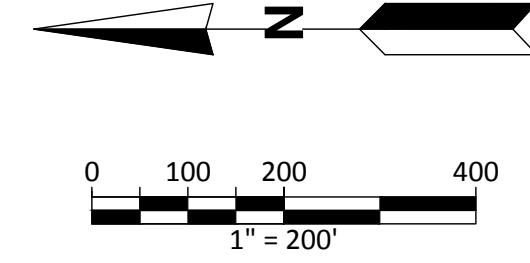
LEGEND

	CS-##	PROPOSED CONDENSATE SUMP
	AV-##	PROPOSED VALVE - AIR SUPPLY
	CV-##	PROPOSED VALVE - CONDENSATE DISCHARGE
	HV-##	PROPOSED VALVE - HEADER / LATERAL
		PROPOSED CONDENSATE DISCHARGE DUAL CLEANOUT
		PROPOSED BLIND FLANGE
		PROPOSED AIR SUPPLY PIPE
		PROPOSED CONDENSATE DISCHARGE PIPE
		PROPOSED LFG HEADER / LATERAL PIPE
	E	PROPOSED LFG ELECTRICAL LINE
	OE	PROPOSED LFG OVER HEAD ELECTRICAL LINE
	20	EXISTING CONTOURS
		BASE GRADE CONTOURS

- NOTES:**
- AERIAL TOPOGRAPHY DATA PROVIDED BY: PICKETT SURVEYING ENGINEERING, FLIGHT DATE 10/03/2022.
 - ALL HEADER/LATERAL PIPING TO BE A MINIMUM OF 0.5% SLOPE OUTSIDE OF THE LIMITS OF WASTE AND 5% SLOPE INSIDE THE LIMITS OF WASTE UNLESS APPROVED BY THE ENGINEER.
 - ANY STORMWATER DRAINAGE DITCH, CULVERT OR ACCESS ROAD DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RETURNED TO IT'S ORIGINAL STATE WITHOUT ANY COST TO THE OWNER.
 - ANY MODIFICATIONS FROM THE PROPOSED SITE PLAN SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
 - CONTRACTOR TO DETERMINE ELECTRICAL REQUIREMENTS FOR OPERATION OF LIFT STATION (I.E. PUMP, PUMP CONTROL PANEL, FLOW METER) AND INSTALL POWER FROM PANEL HF. REFER TO ELECTRICAL SHEETS E1-E5.

ISSUED FOR BID
DATE: 6/28/2024

CLIENT	LEE/HENDRY REGIONAL SOLID WASTE DISPOSAL FACILITY				5500 CHURCH RD. FELDA, FL 33930				PROPOSED BLOWER AND FLARE SITE PLAN - 2		REV	DATE	DESCRIPTION	CHK. BY	
	SCS ENGINEERS STARNES, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 821-0080 FAX NO. (813) 623-6757 FLORIDA FIRM REGISTRATION RY-4892								PROJECT TITLE		△				
	CADD FILE: 08 - PROPOSED BLOWER AND FLARE								LEE/HENDRY GAS COLLECTION AND CONTROL SYSTEM		△				
	DATE: JUNE 2024										△				
SCALE: AS SHOWN												△			
DRAWING NO. 07												△			
SHEET 07 of 22												△			
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LEGEND

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|---|--------|---|---|
|  | EW-## |  | PROPOSED WELL - GAS EXTRACTION |
|  | HC-## |  | PROPOSED WELL - HORIZONTAL |
|  | AR-## |  | PROPOSED ACCESS RISER |
|  | ARV-## |  | PROPOSED AIR RELEASE VALVE |
|  | CS-## |  | PROPOSED CONDENSATE SUMP |
|  | AV-## |  | PROPOSED VALVE - AIR SUPPLY |
|  | CV-## |  | PROPOSED VALVE - CONDENSATE DISCHARGE |
|  | HV-## |  | PROPOSED VALVE - HEADER / LATERAL |
|  | |  | PROPOSED HORIZONTAL COLLECTOR SUMP |
|  | |  | PROPOSED BLIND FLANGE |
|  | |  | PROPOSED HIGH POINT |
|  | |  | PROPOSED CONDENSATE DISCHARGE DUAL CLEANOUT |
|  | |  | PROPOSED ROAD CROSSING |
|  | |  | PROPOSED AIR SUPPLY PIPE |
|  | |  | PROPOSED CONDENSATE DISCHARGE PIPE |
|  | |  | PROPOSED LFG HEADER / LATERAL PIPE |
|  | |  | PROPOSED LFG HORIZONTAL COLLECTOR PIPE |
|  | |  | PROPOSED LFG HORIZONTAL COLLECTOR LINE |
|  | |  | PROPOSED SOD LIMITS |
|  | |  | EXISTING CONTOURS |

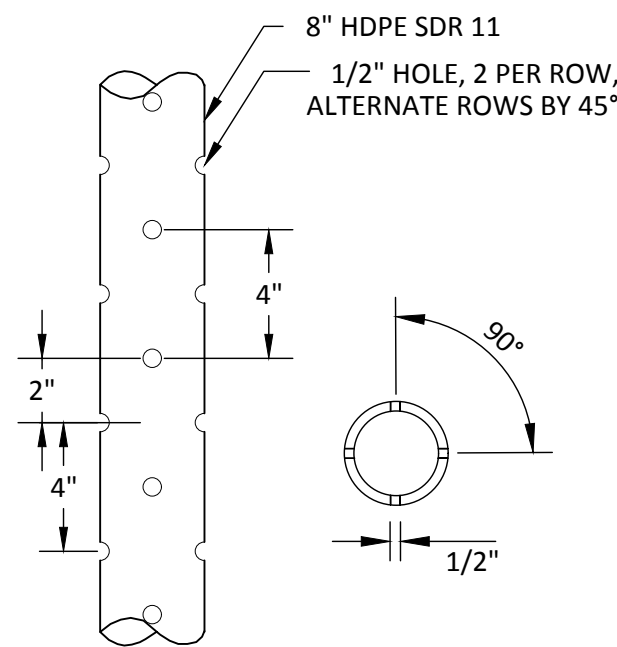
NOTES:

1. AERIAL TOPOGRAPHY DATA PROVIDED BY: PICKETT SURVEYING ENGINEERING, FLIGHT DATE 10/03/2022.
2. CLASS III CELL 1 TOPOGRAPHIC DATA PROVIDED BY T2UTILITY ENGINEERS, SURVEY DATE 01/10/2024.
3. CLASS III CELL 2 AND 3 BASE GRADES DATA PROVIDED BY JONES EDMUNDS IN CAD DRAWING NAMED "XR026-DSGN-2-3.DWG".
4. PROPOSED SOD LIMITS REPRESENTS 25-FEET OFFSET ON BOTH SIDES OF GCCS PIPING.

ISSUED FOR BID
DATE: 6/28/2024

SHEET	08	of	20	DRAWING NO.	SCALE:	AS SHOWN	DATE:	JUNE 2024	CADD FILE:	03 - OVERALL PROPOSED SITE PLAN	SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 824-0080 FAX NO. (813) 824-6757 FLORIDA FIRM REGISTRATION RY-4892	CLIENT				SHEET TITLE		PROPOSED SOD SITE PLAN		REV	DATE	DESCRIPTION	CHK. BY	DANIEL R. COOPER, P.E. LICENSE NO. NO. 66440			
												PROJECT TITLE		LEE/HENDRY GAS COLLECTION AND CONTROL SYSTEM													
												LEE/HENDRY REGIONAL SOLID WASTE DISPOSAL FACILITY		5500 CHURCH RD. FELDA, FL 33930													

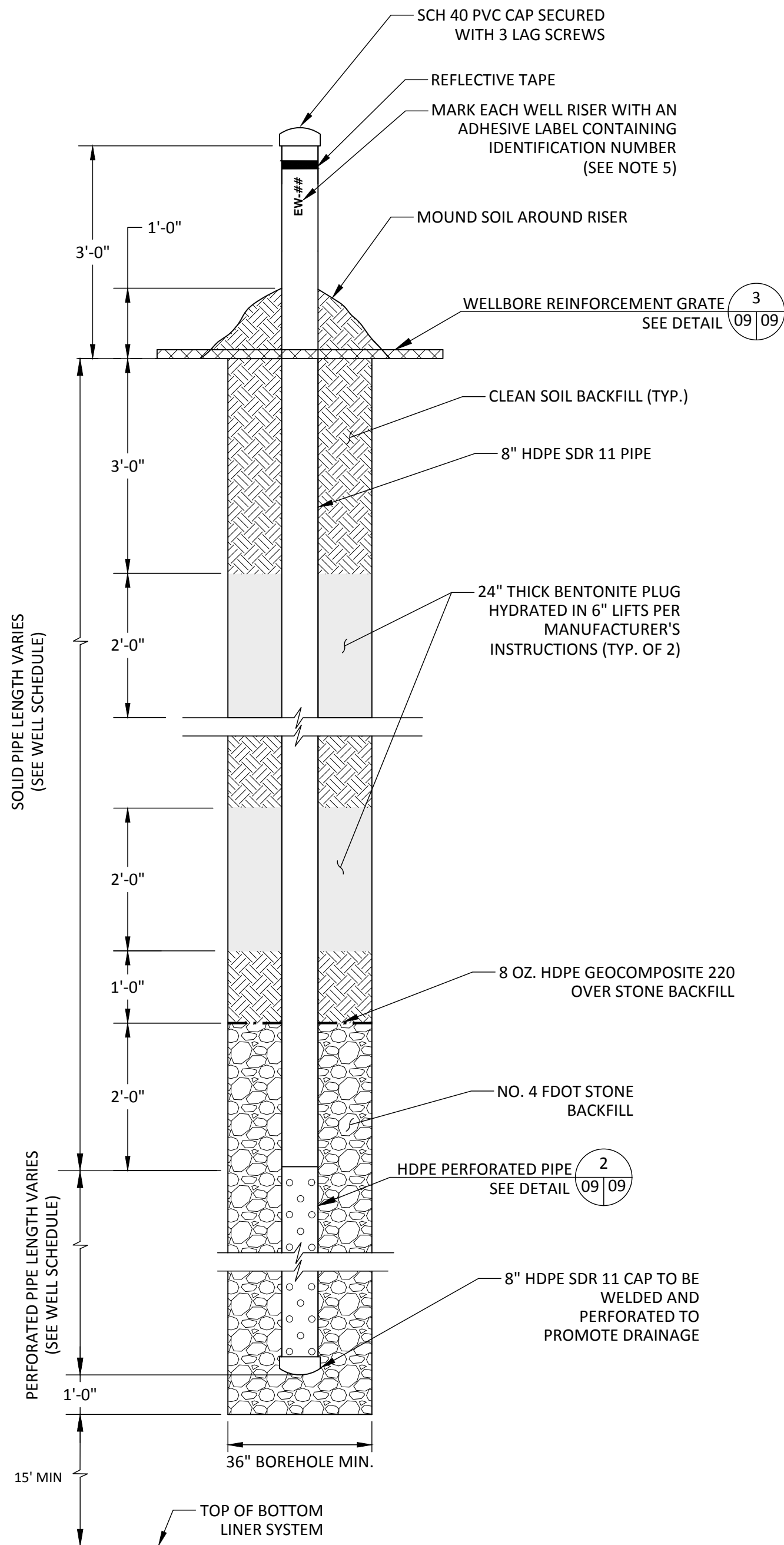
Well ID	Northing	Easting	Approx. Ground Surface (ft)	Approx. Base Grade Elevation (ft)	Approx. Depth of Refuse (ft)	Distance from Bottom Liner (ft)	Well Depth (ft)	Perforated Pipe Length (ft)	Solid Pipe Length Below Grade (ft)	Solid Pipe Length Above Grade (ft)	Thickness of Gravel Pack (ft)
EW-01 ⁴	814546	485297	100	40	60	15	45	29	15	3	32
EW-02 ⁴	814459	485161	100	39	61	15	46	30	15	3	33
EW-03 ⁴	814573	485017	100	39	61	15	46	30	15	3	33
EW-04 ⁴	814760	485003	100	39	61	15	46	30	15	3	33
EW-05 ⁴	814750	485142	100	39	61	15	46	30	15	3	33
EW-06 ⁴	814894	485074	100	39	61	15	46	30	15	3	33
EW-07 ⁴	814915	484916	100	40	60	15	45	29	15	3	32
EW-08 ⁴	815029	485066	100	38	62	15	47	31	15	3	34
EW-09 ⁴	815118	484895	100	40	60	15	45	29	15	3	32
EW-10 ⁴	815180	485000	100	39	61	15	46	30	15	3	33
EW-11 ⁴	815224	485102	100	39	61	15	46	30	15	3	33
EW-12	815325	485013	100	38	62	15	47	31	15	3	34
EW-13	815404	484902	100	39	61	15	46	30	15	3	33
EW-14	815585	484845	98	38	60	15	45	29	15	3	32
TOTAL						642	418	210	42	460	



- NOTES:
1. PERFORATIONS SPACED 90° APART HORIZONTALLY.
 2. PERFORATIONS SPACED 4" APART VERTICALLY.
 3. 90° AND 270° ROWS TO BE STAGGERED 2" BELOW 0° AND 180° ROWS.

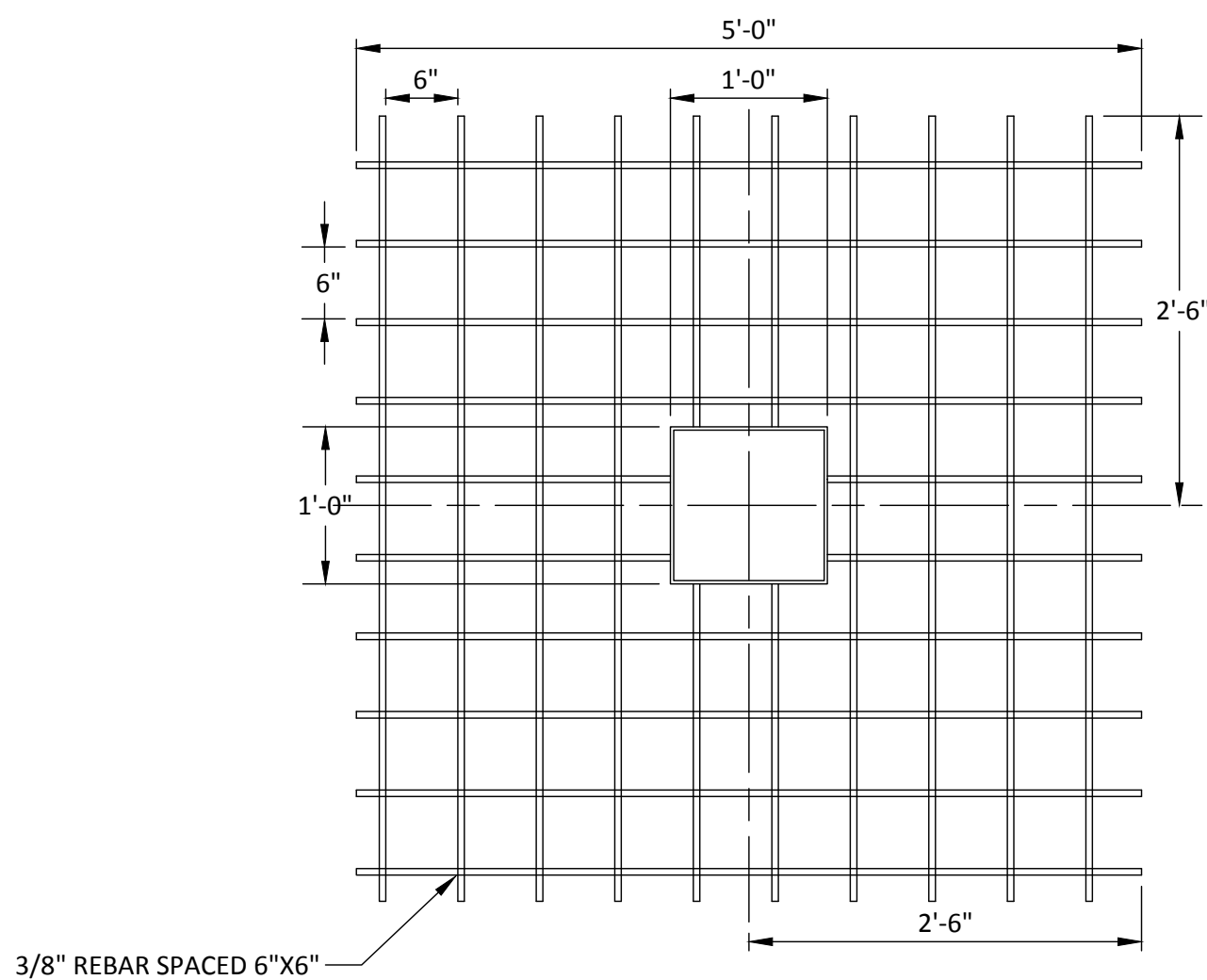


- NOTES:**
1. THE ABOVE WELL SCHEDULE OR OTHER SIMILAR SCHEDULES ARE NOT INTENDED FOR CONSTRUCTION UNTIL ACTUAL PRE-CONSTRUCTION SURVEY DATA FOR ALL WELLS ARE OBTAINED AND THE WELL COMPLETION OR OTHER SIMILAR SCHEDULES ARE REVISED BY THE DESIGN ENGINEER.
 2. BASE GRADES FOR CLASS III CELL 1 BASED ON CAD DRAWING NAME "023-LEE.DWG" PROVIDED BY JONES EDMUNDS.
 3. GROUND SURFACE ELEVATIONS, NORTHINGS, AND EASTINGS BASED ON TOPOGRAPHIC DATA PROVIDED BY T2 UTILITY ENGINEERS. SURVEY DATA 01/10/2024.
 4. GROUND SURFACE ELEVATIONS ARE APPROXIMATED BASED ON FUTURE FILL SEQUENCING AND MAY VARY AT THE TIME OF CONSTRUCTION.



- NOTES:**
1. CONTRACTOR TO 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.
 2. ENGINEER TO ADJUST WELL SCHEDULE AS NECESSARY BASED ON THE PRE-CONSTRUCTION SURVEY.
 3. ALL SIGNATURES ARE REQUIRED ON THE FINAL WELL SCHEDULE PRIOR TO COMMENCEMENT OF DRILLING.
 4. CONTRACTOR TO INSTALL WELL BORE REINFORCEMENT GRATE ON GRADE AROUND WELL IMMEDIATELY AFTER COMPLETING WELL. DURING INSTALLATION OF LATERAL RISER, GRATE TO BE BURIED.
 5. WELLS TO HAVE TWO LABELS, 180 DEGREES APART. EACH LABEL TO BE HIGH VISIBILITY SAFETY YELLOW WITH BLACK LETTERING. LABEL TO BE OUTDOOR, UV RESISTANT, WATERPROOF AND PERMANENTLY ADHERED CONSISTING OF 2 INCH LETTERING.

LFG EXTRACTION WELL DETAIL **1**
NOT TO SCALE 05 09

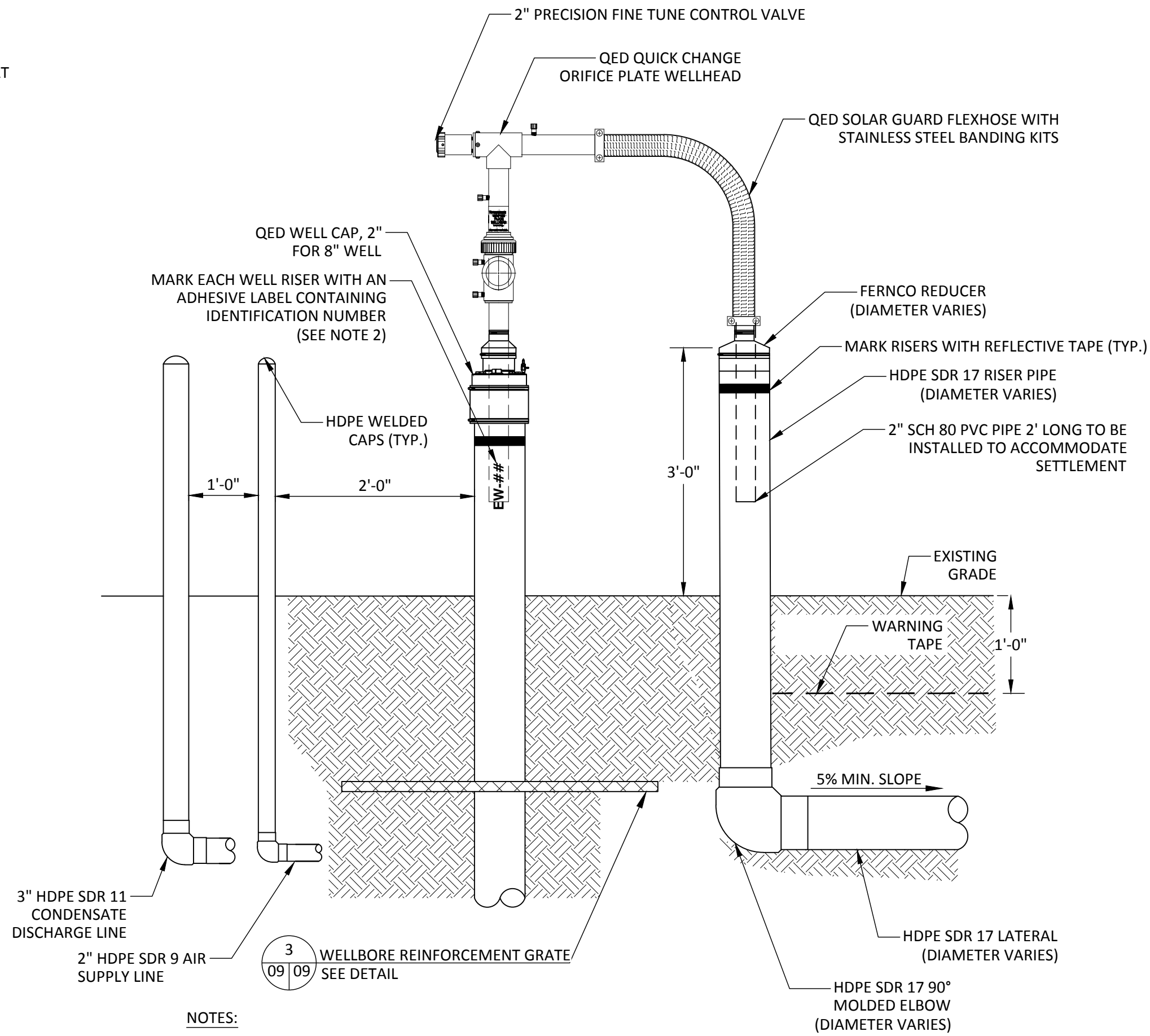


- NOTES:**
1. WELL BORE REINFORCEMENT GRATE TO BE 100% WELDED AND CONFIGURED WITH 3/8" REBAR WITH 6"x6" SPACING. GRATE TO HAVE A 12"x12" SQUARE CENTER SPACED CUTOUT FOR WELL CASING.

WELLBORE REINFORCEMENT GRATE DETAIL

NOT TO SCALE

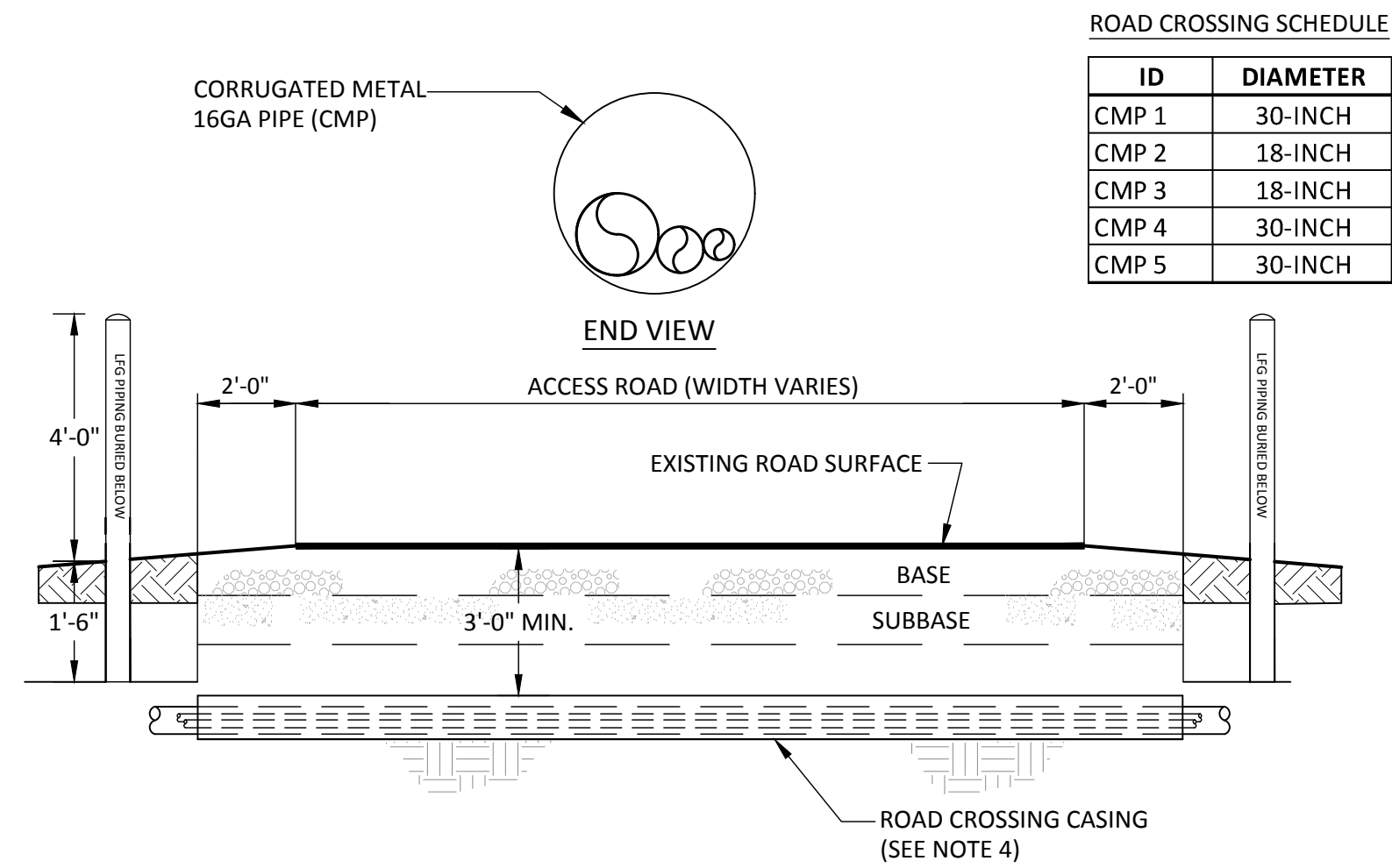
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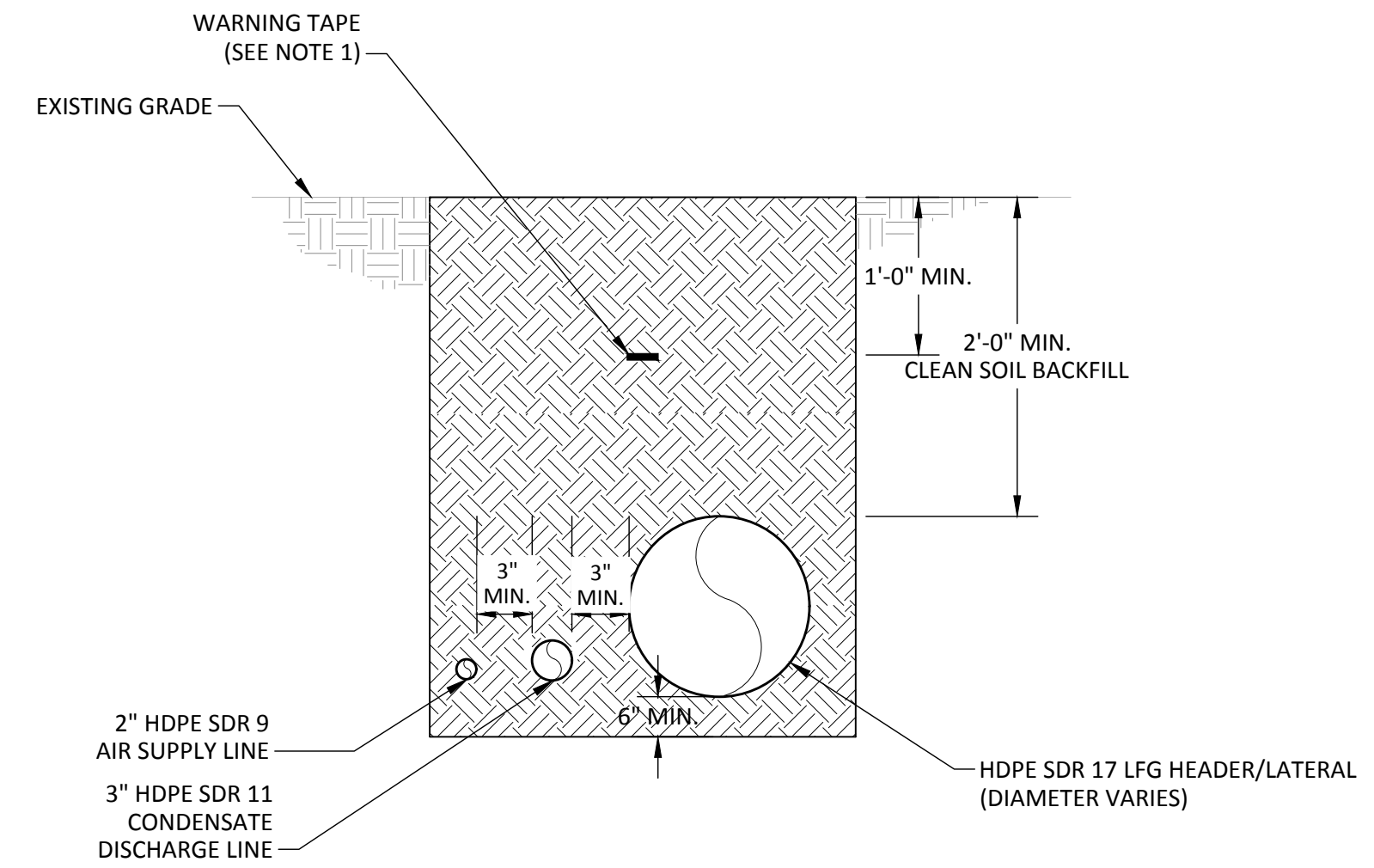
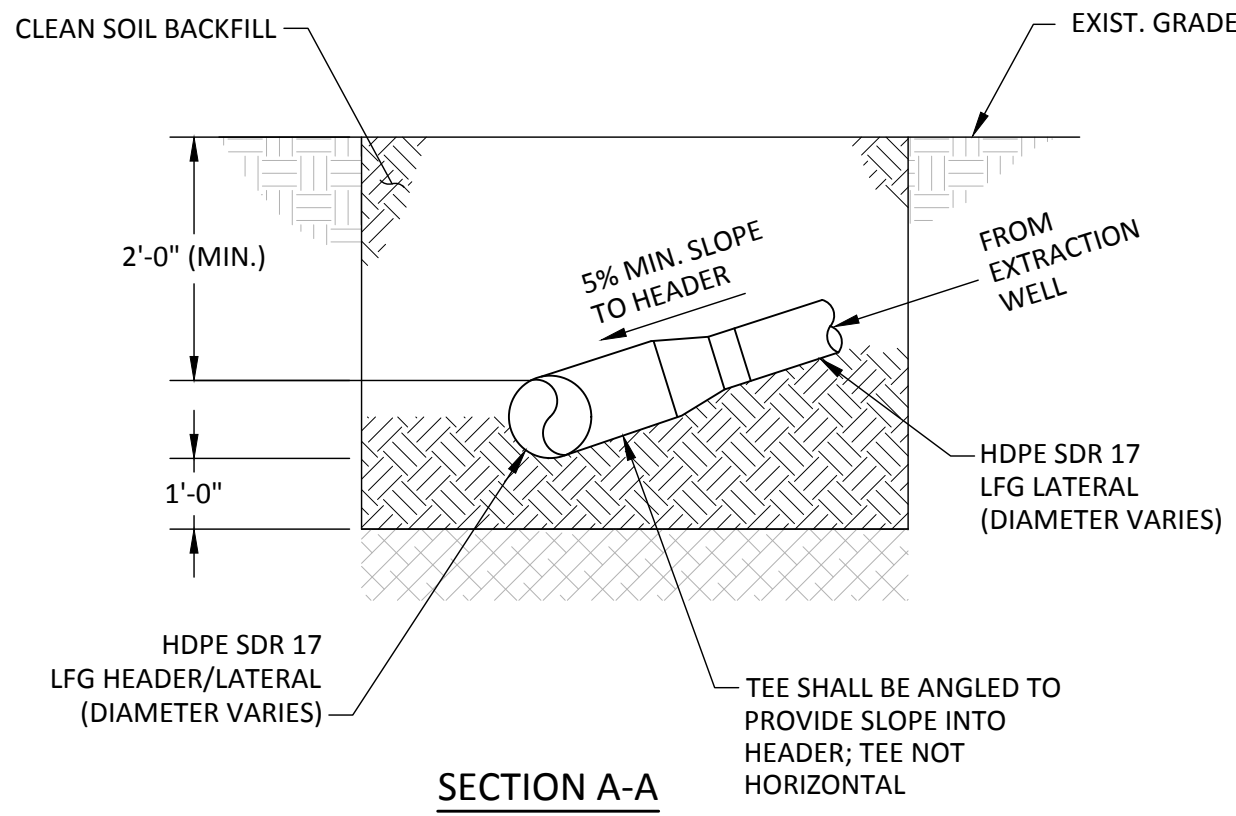
- NOTES:
1. WELL BORE REINFORCEMENT GRATE TO BE 100% WELDED AND CONFIGURED WITH 3/8" REBAR WITH 6"x6" SPACING. GRATE TO HAVE A 12"x12" SQUARE CENTER SPACED CUT OUT FOR WELL CASING.
2. GRATE TO HAVE TWO LABELS, 180 DEGREES APART. EACH LABEL TO BE HIGH VISIBILITY SAFETY YELLOW WITH BLACK LETTERING. LABEL TO BE OUTDOOR, UV RESISTANT, WATERPROOF AND PERMANENTLY ADHERED CONSISTING OF 2 INCH LETTERING.

WELLHEAD DETAIL 4
NOT TO SCALE 09 09

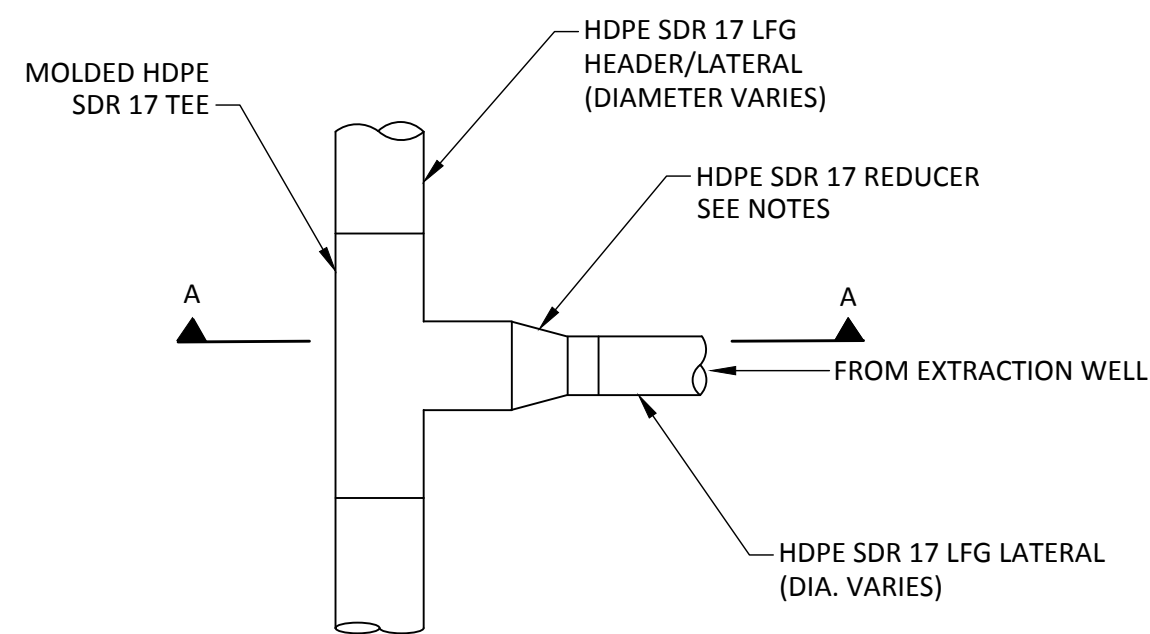
SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 621-0080 FAX NO. (813) 623-6757 FLORIDA FIRM REGISTRATION RY-4892		CADD FILE: 08 - DETAILS		DATE: JUNE 2024		SCALE: AS SHOWN		DRAWING NO. 09		SHEET 09 of 22	
CLIENT LEE/HENDRY REGIONAL SOLID WASTE DISPOSAL FACILITY 5500 CHURCH RD. FELDA, FL 33930		PROJECT TITLE LEE/HENDRY GAS COLLECTION AND CONTROL SYSTEM		REV		DATE		DESCRIPTION		CHK. BY	
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				△						DANIEL R. COOPER, P.E. LICENSE NO. 66440	



ID	DIAMETER
CMP 1	30-INCH
CMP 2	18-INCH
CMP 3	18-INCH
CMP 4	30-INCH
CMP 5	30-INCH



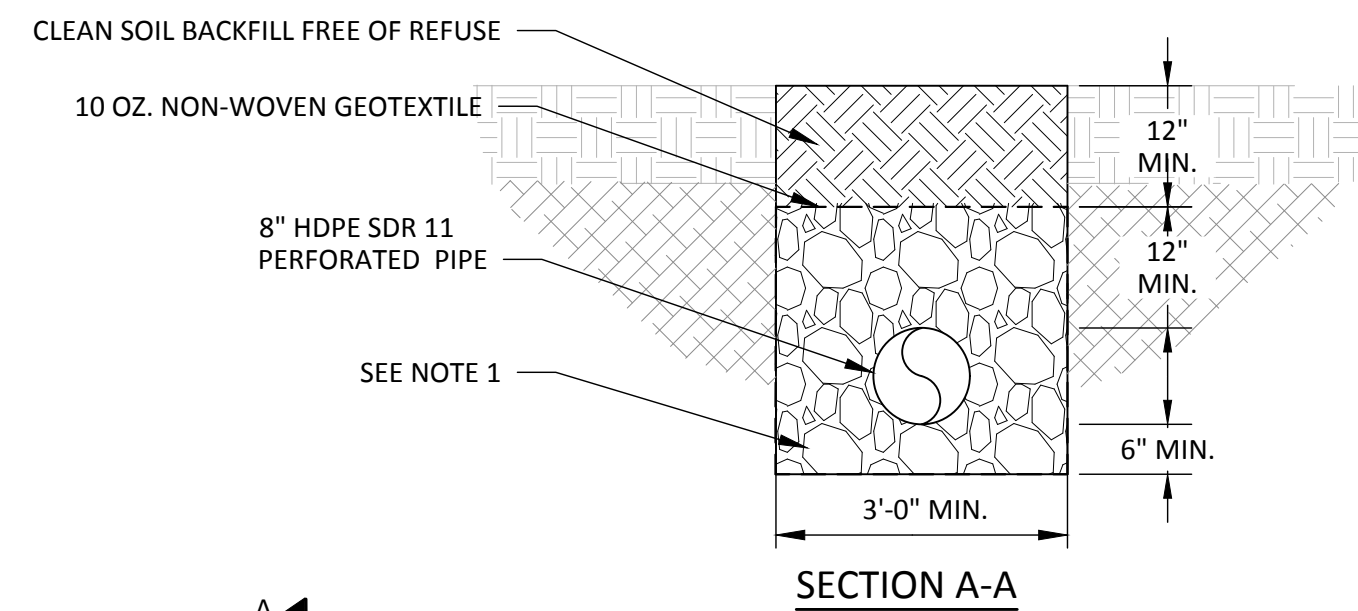
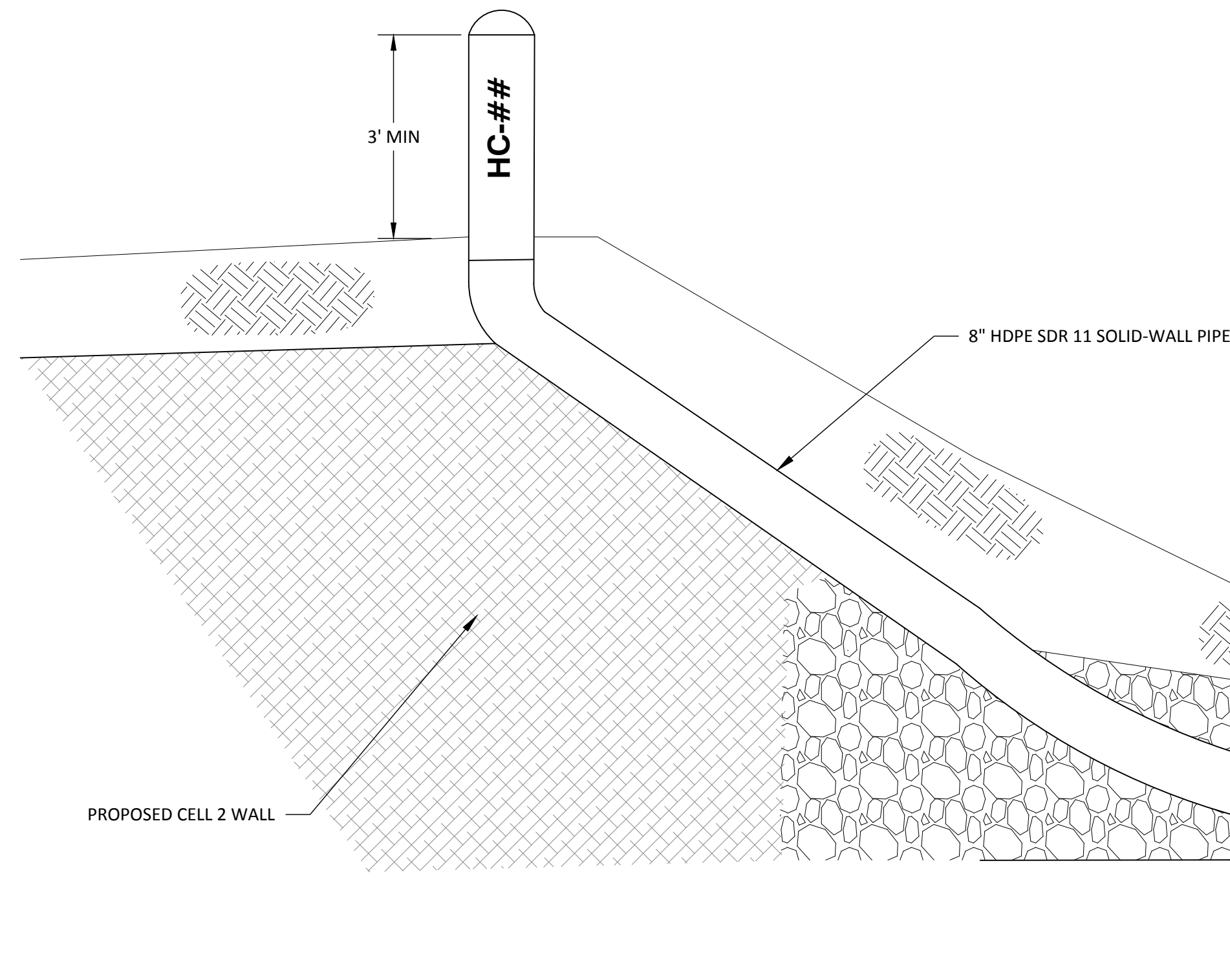
- NOTES:**
1. CONTRACTOR TO MATCH ORIGINAL ROAD CONDITIONS.
 2. CONTRACTOR TO INSTALL TWO BOLLARDS AT EACH END OF THE CASING. BOLLARDS TO BE CONCRETE-FILLED HDPE PIPE BOLLARDS 6"Ø x 6'-6" TALL (MINIMUM OF 4' EXPOSED) AND PAINTED YELLOW. BOLLARDS TO BE LABELED "LFG PIPING BURIED BELOW."
 3. CONTRACTOR TO COORDINATE ROAD CROSSING OPERATIONS WITH COUNTY.
 4. NUMBER AND TYPES OF PIPES ENCASED IN ROAD CROSSING VARIES. SEE SITE PLAN AND SCHEDULE.
 5. 2" AIR SUPPLY AND 3" CONDENSATE DISCHARGE LINES TO BE INSTALLED ON THE UPHILL SIDE OF THE HEADER.



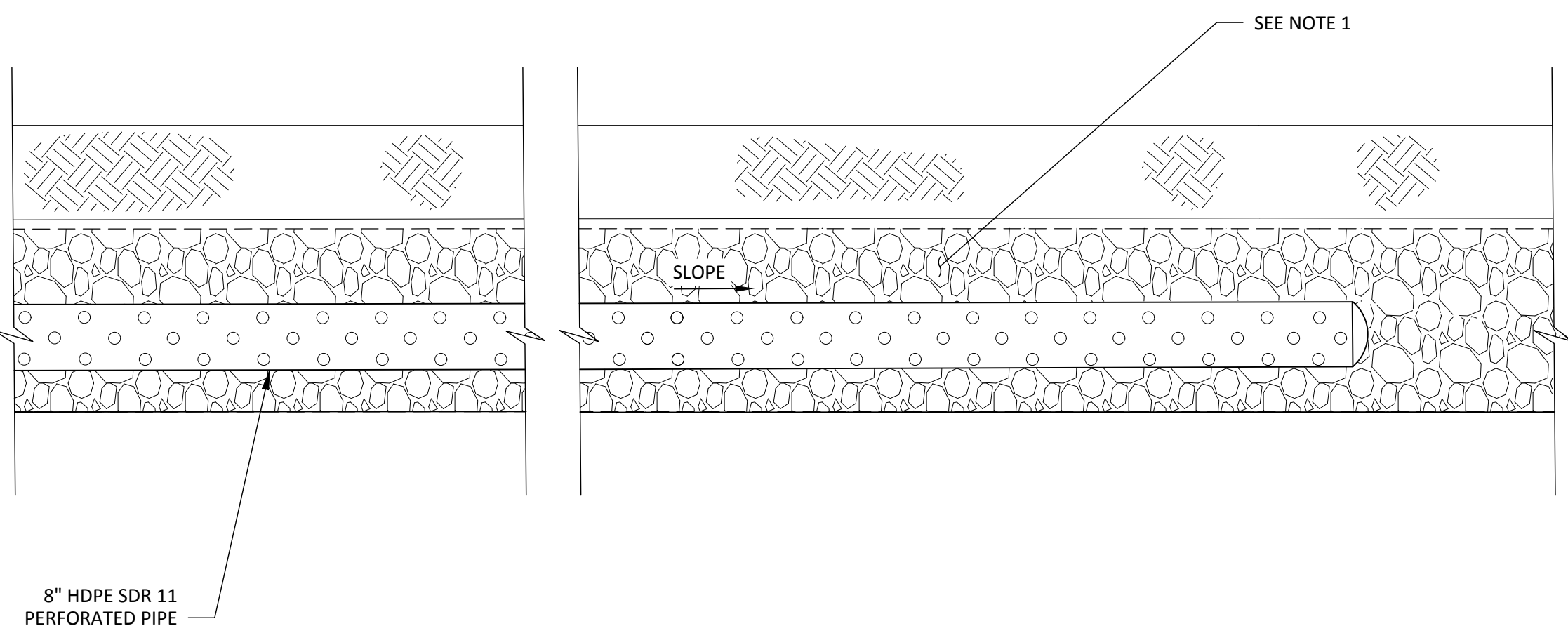
- NOTES:**
1. CONSECUTIVE SIZE REDUCERS TO BE USED TO TRANSITION FROM THE MOLDED TEE TO THE LFG LATERAL.
 2. MOLDED HDPE TEES TO BE INSTALLED FOR ALL TI-INS OF LATERALS TO HEADER SMALLER THAN 12". TEES TO BE ANGLED TO MAINTAIN SLOPE INTO THE HEADER AS SHOWN IN SECTION VIEW.
 3. 1' MIN. OF CLEAN SOIL TO BE PLACED BELOW EACH TEE. THE CLEAN SOIL INSTALLED TO EXTEND 3' MIN. IN EACH DIRECTION OF THE TEE. CLEAN SOIL TO BE SLIGHTLY MOISTENED AND HAND-TAMPED PROVIDING SUPPORT TO ALL POINTS OF THE TEE. CLEAN, GRADED SOIL TO BE HAND-TAMPED ABOVE TEE (1' MIN.) BEING CAREFUL TO ELIMINATE VOIDS.



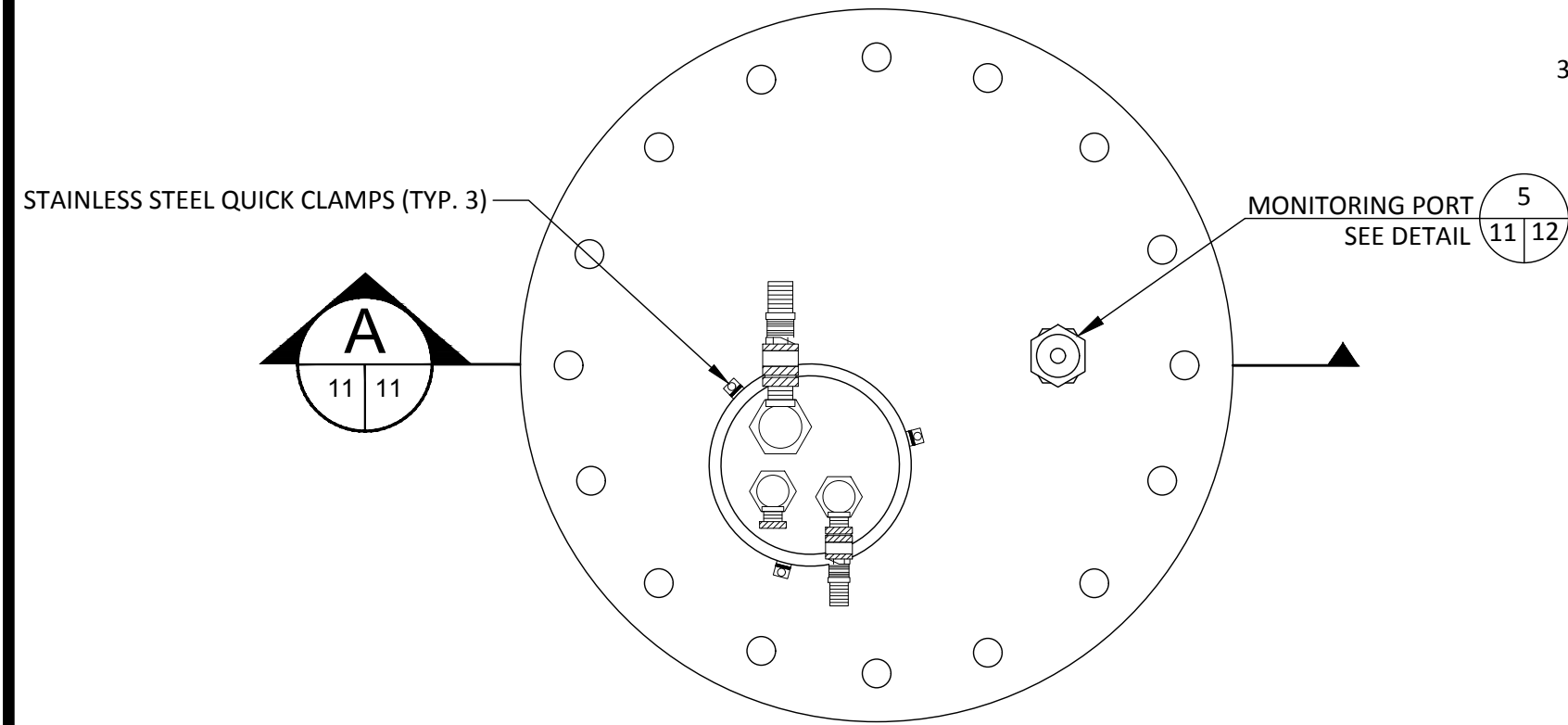
1. WARNING TAPE TO BE MIN. 3" WIDE AND IMPRINTED WITH "GAS LINE BURIED BELOW" WITH A METALLIC LAYER FOR DETECTION ABOVE GRADE.
2. HEADER/LATERALS INSTALLED IN WASTE TO BE INSTALLED AT 5% MIN. SLOPE UNLESS OTHERWISE SPECIFIED OR APPROVED BY ENGINEER.
3. HEADER INSTALLED OUT OF WASTE TO BE INSTALLED AT 0.5% MIN. SLOPE UNLESS OTHERWISE SPECIFIED OR APPROVED BY ENGINEER.
4. ALL HEADER/LATERAL PIPING TO BE HDPE SDR 17.
5. THE NUMBER AND TYPES OF PIPES INSTALLED IN THE TRENCH MAY VARY, REFER TO SITE PLAN.
6. 2" AIR SUPPLY AND 3" CONDENSATE DISCHARGE LINES TO BE INSTALLED ON THE UPHILL SIDE OF THE HEADER/LATERALS.



- NOTES:**
1. TRENCH TO BE BACKFILLED WITH NO. 4 NON-CALCAREOUS STONE. COUNTY MAY SUBSTITUTE MATERIAL WITH TIRE CHIPS. CONTRACTOR TO CONFIRM WITH COUNTY PRIOR TO CONSTRUCTION.
 2. TRENCH SLOPE TO BE BASED ON PROPOSED CELL 2 BOTTOM ELEVATIONS.
 3. BUTT CAP TO BE PLACED AT THE END OF THE COLLECTOR. BUTT CAP TO BE PERFORATED TO PROMOTE DRAINAGE.
 4. HORIZONTAL COLLECTOR TO BE FIELD ADJUSTED AS NECESSARY AND COORDINATED WITH THE ENGINEER.
 5. RECORD SURVEY ELEVATIONS REQUIRED AT SURFACE AND TOP OF PIPE FOR EACH LOW AND HIGH POINT.
 6. CONTRACTOR TO MAINTAIN CONNECTION TO GCCS AS HIGH POINT.

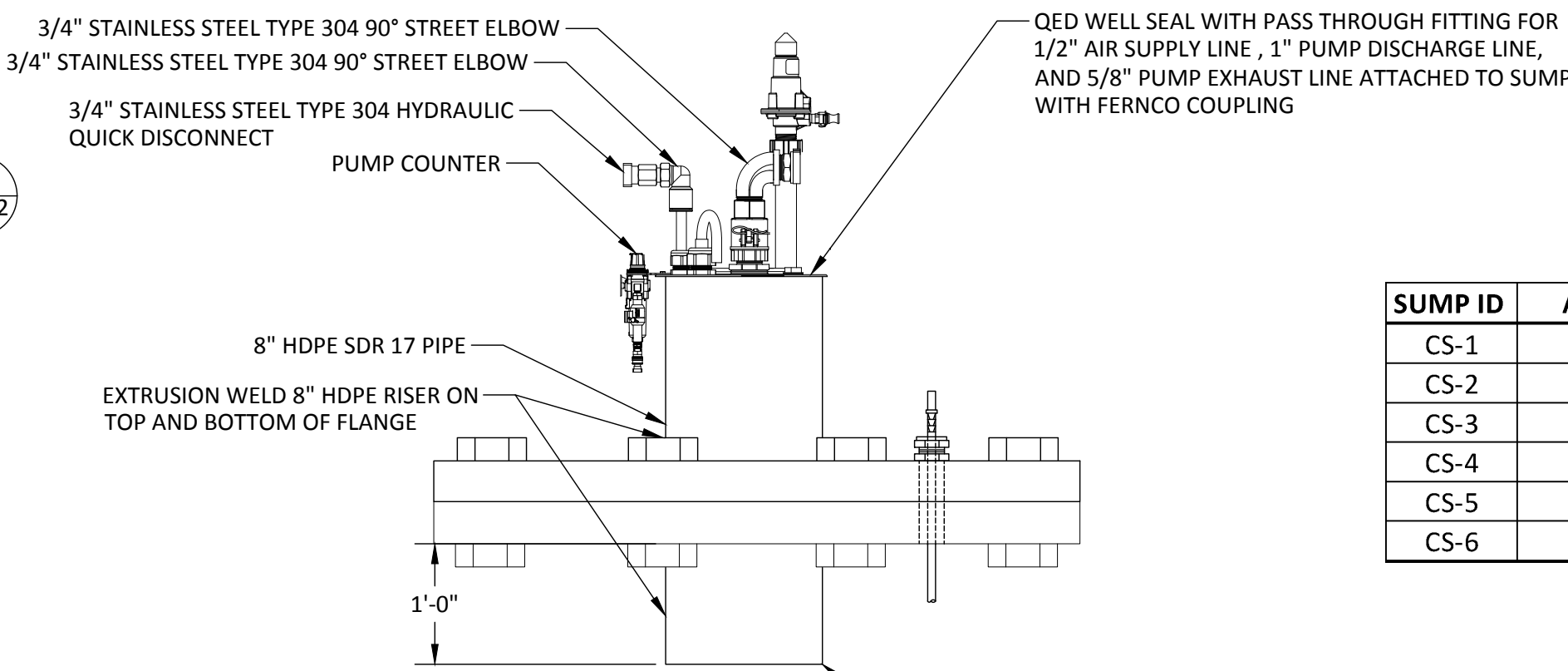


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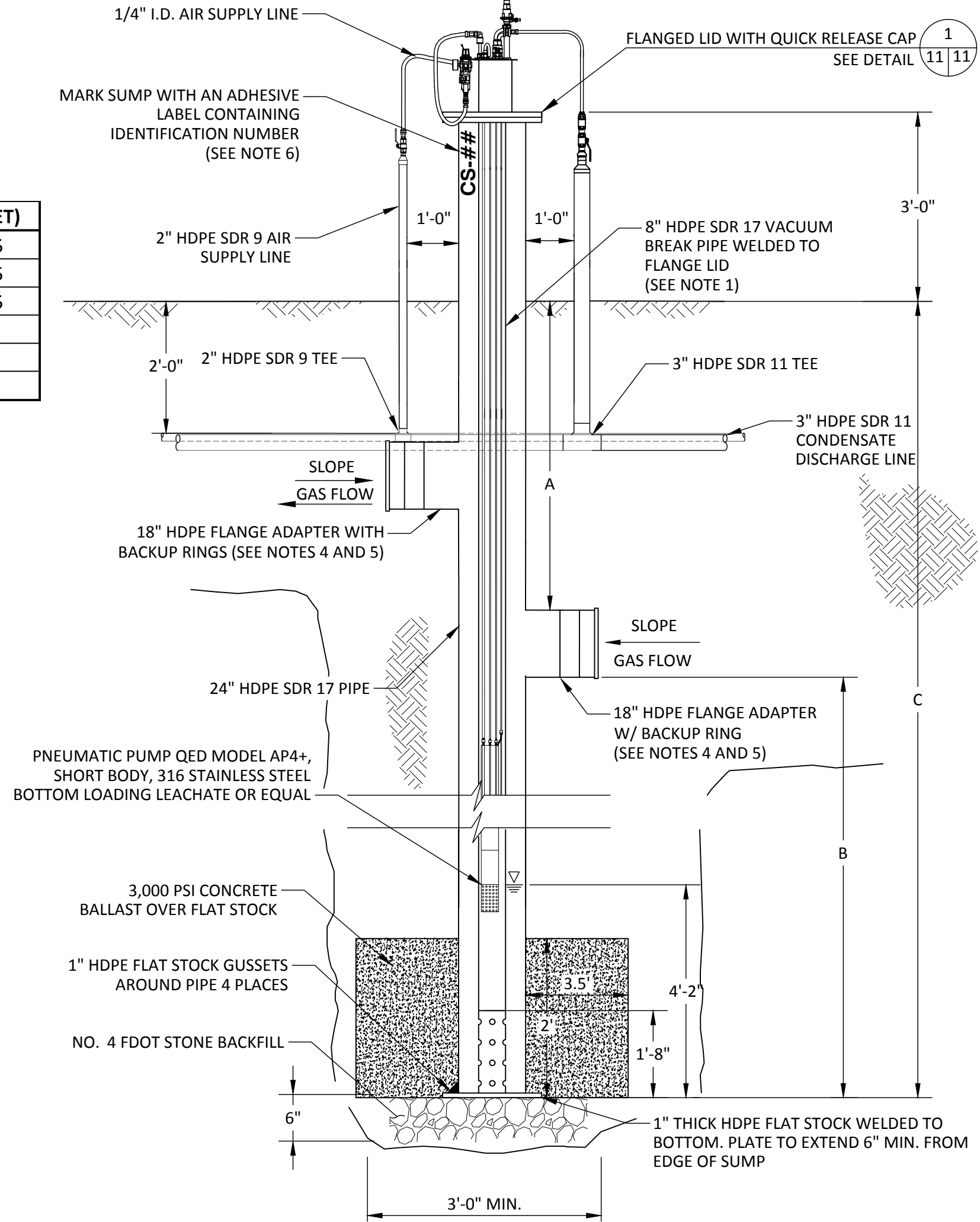
NOTES:

1. PNEUMATIC PUMP MAY BE QED MODEL AP4+, SHORT BODY, FIBERGLASS BOTTOM LOADING BOTTOM LOADING LEACHATE OR APPROVED EQUAL.



SECTION A
NOT TO SCALE

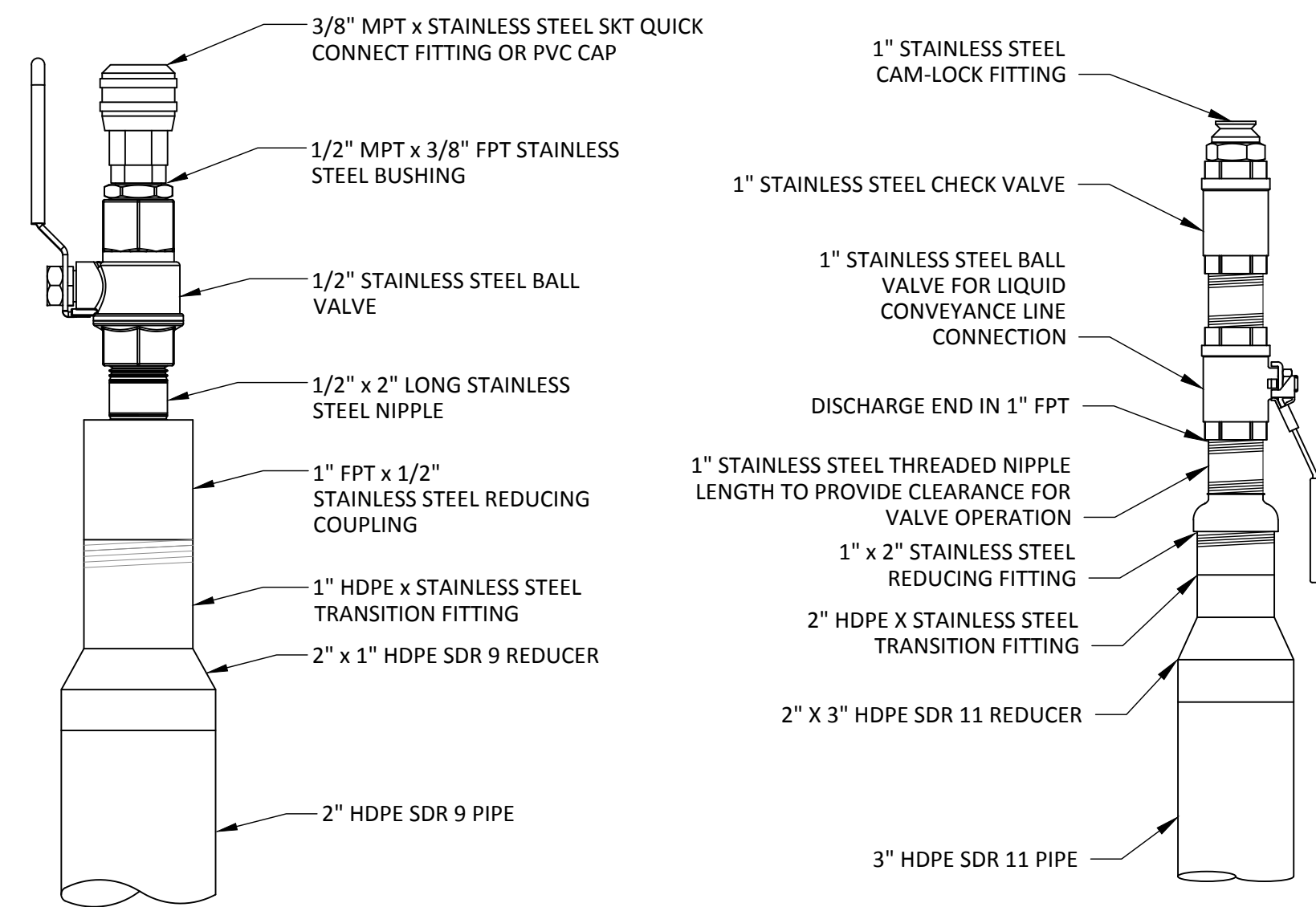
SUMP SCHEDULE			
SUMP ID	A (FEET)	B (FEET)	C (FEET)
CS-1	6	7	14.5
CS-2	7.5	7	16.5
CS-3	6.5	7	13.5
CS-4	5.5	7	14
CS-5	5.5	7	14
CS-6	5.5	7	14



CONDENSATE SUMP DETAIL 2
NOT TO SCALE

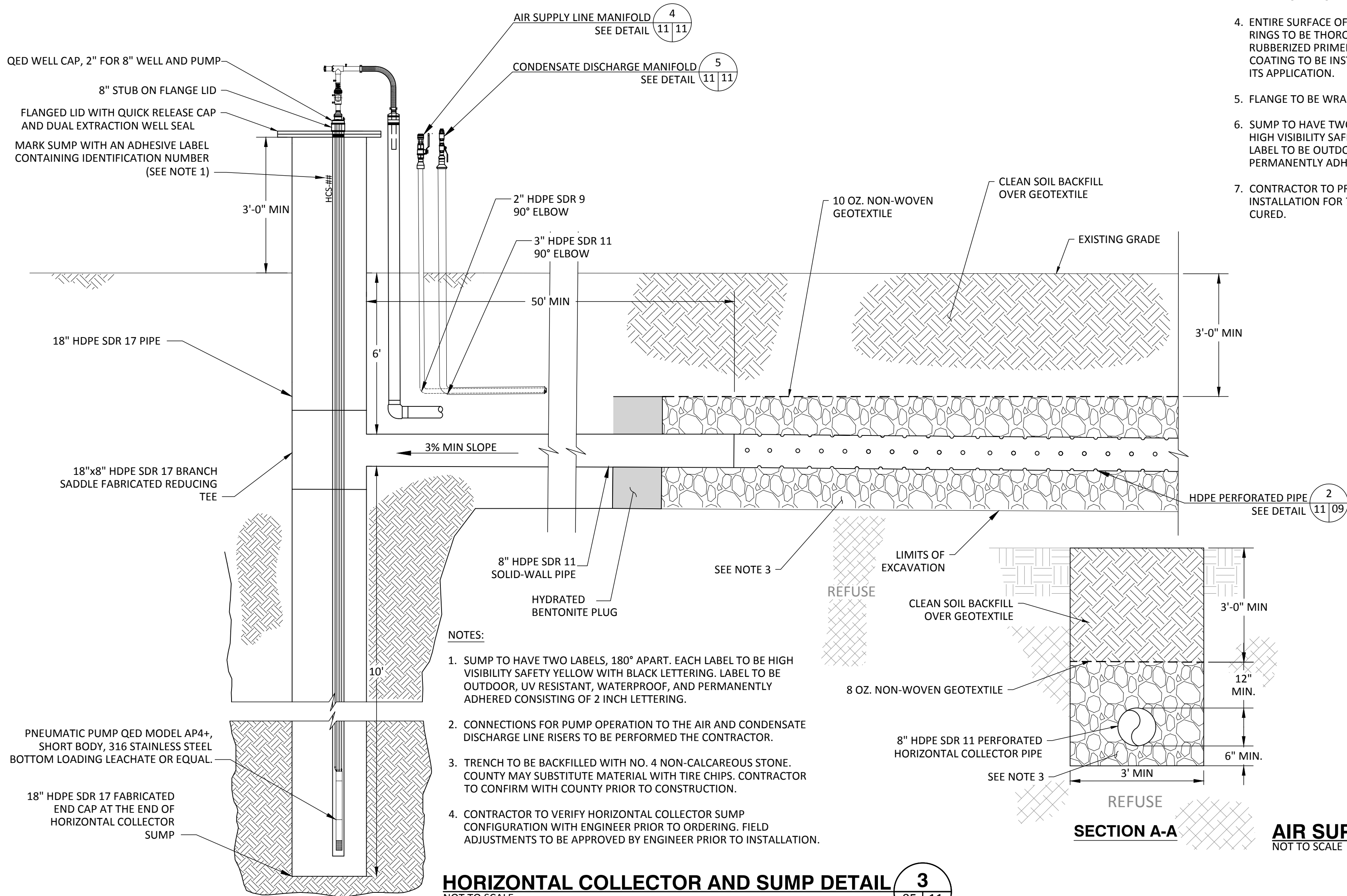
NOTES:

1. 8" HDPE SDR 17 VACUUM BREAK PIPE EXTRUSION TO BE WELDED TO FLANGE LID. 1'-0" OF PIPE TO BE PROTRUDING THROUGH TOP OF FLANGE. PIPE EXTRUSION TO BE WELDED TO BOTH SIDES OF BLIND FLANGE. CENTER OF PIPE TO BE LOCATED 2" OFF CENTER OF BLIND FLANGE.
2. CONTRACTOR TO VERIFY CONDENSATE SUMP CONFIGURATION WITH ENGINEER PRIOR TO ORDERING. FIELD ADJUSTMENTS TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION.
3. ENGINEER TO APPROVE DEPTH BASED ON GROUND SURFACE ELEVATION PRIOR TO INSTALLATION.
4. ENTIRE SURFACE OF BOLTS, WASHERS, NUTS AND BACKUP RINGS TO BE THOROUGHLY COATED WITH POLYCOAT RUBBERIZED PRIMER, OR EQUAL, AFTER TIGHTENING BOLTS. COATING TO BE INSTALLED WITH NO "HOLIDAYS", OR GAPS IN ITS APPLICATION.
5. FLANGE TO BE WRAPPED IN PLASTIC PRIOR TO BACK FILLING.
6. SUMP TO HAVE TWO LABELS, 180° APART. EACH LABEL TO BE HIGH VISIBILITY SAFETY YELLOW WITH BLACK LETTERING. LABEL TO BE OUTDOOR, UV RESISTANT, WATERPROOF, AND PERMANENTLY ADHERED CONSISTING OF 2 INCH LETTERING.
7. CONTRACTOR TO PROVIDE DEWATERING DURING SUMP INSTALLATION FOR 7 DAYS UNTIL CONCRETE BALLAST IS CURED.



AIR SUPPLY LINE MANIFOLD DETAIL 4
NOT TO SCALE

CONDENSATE DISCHARGE MANIFOLD DETAIL 5
NOT TO SCALE

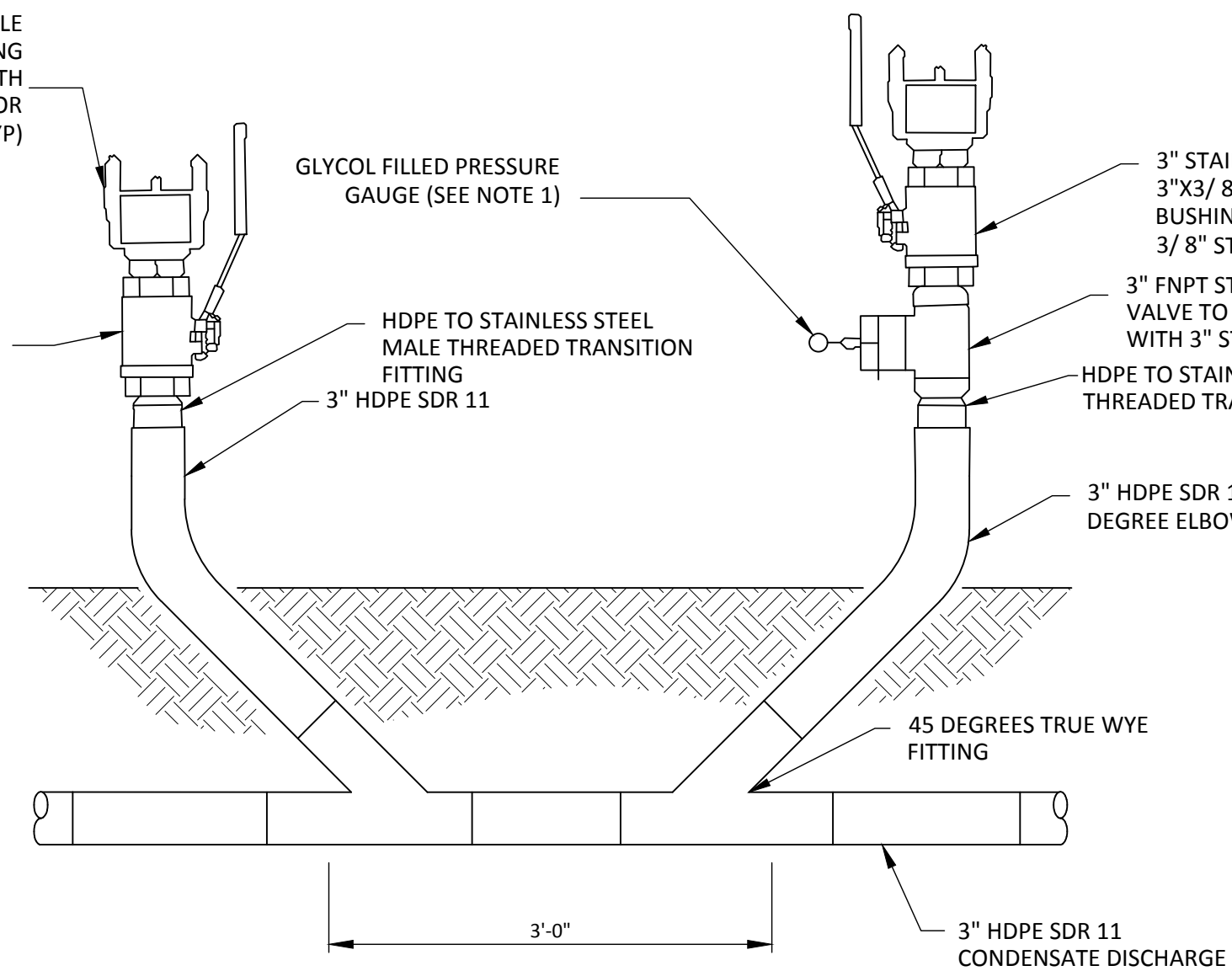


NOTES:

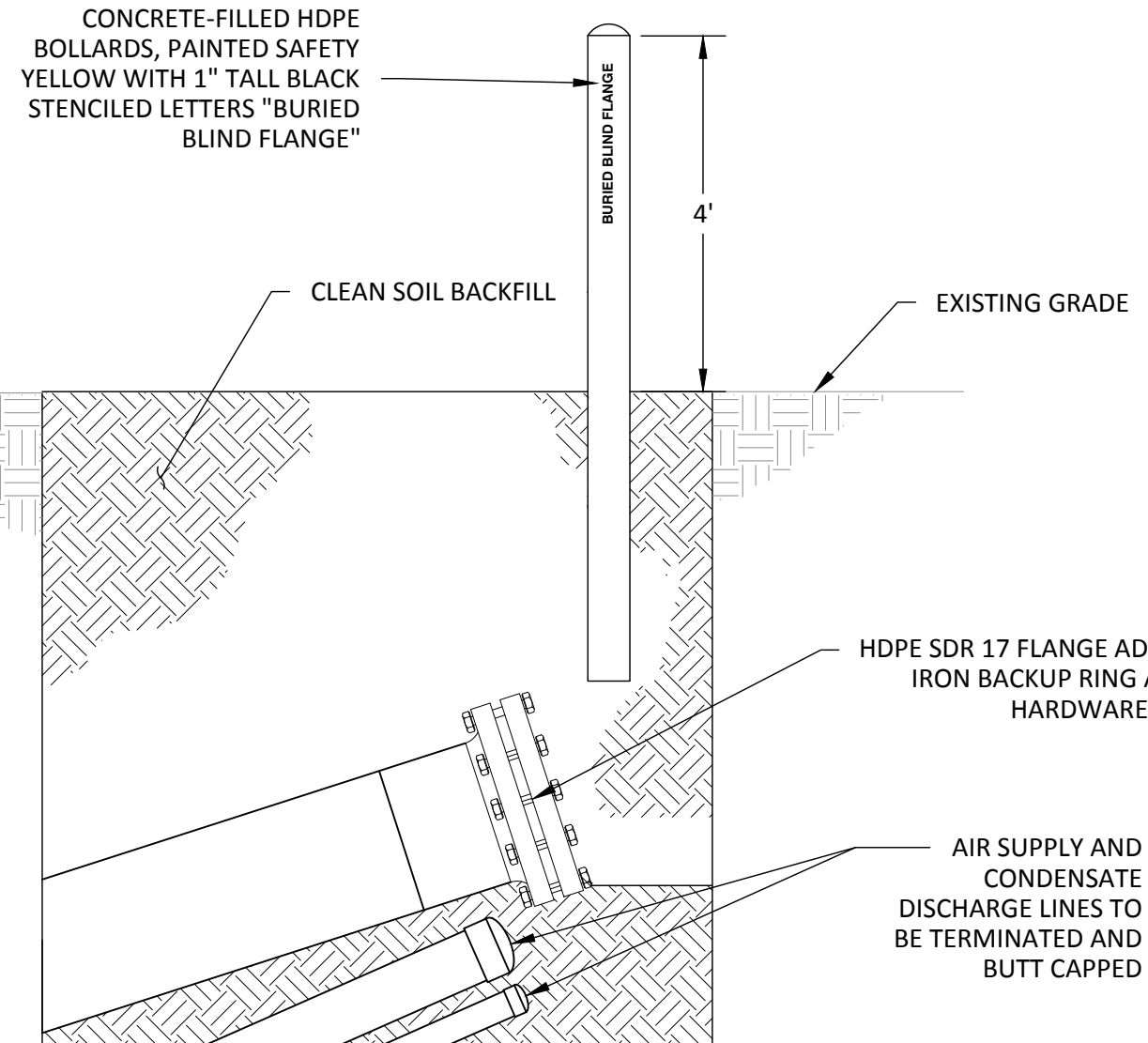
1. SUMP TO HAVE TWO LABELS, 180° APART. EACH LABEL TO BE HIGH VISIBILITY SAFETY YELLOW WITH BLACK LETTERING. LABEL TO BE OUTDOOR, UV RESISTANT, WATERPROOF, AND PERMANENTLY ADHERED CONSISTING OF 2 INCH LETTERING.
2. CONNECTIONS FOR PUMP OPERATION TO THE AIR AND CONDENSATE DISCHARGE LINE RISERS TO BE PERFORMED THE CONTRACTOR.
3. TRENCH TO BE BACKFILLED WITH NO. 4 NON-CALCAREOUS STONE. COUNTY MAY SUBSTITUTE MATERIAL WITH TIRE CHIPS. CONTRACTOR TO CONFIRM WITH COUNTY PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO VERIFY HORIZONTAL COLLECTOR SUMP CONFIGURATION WITH ENGINEER PRIOR TO ORDERING. FIELD ADJUSTMENTS TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION.

HORIZONTAL COLLECTOR AND SUMP DETAIL 3
NOT TO SCALE

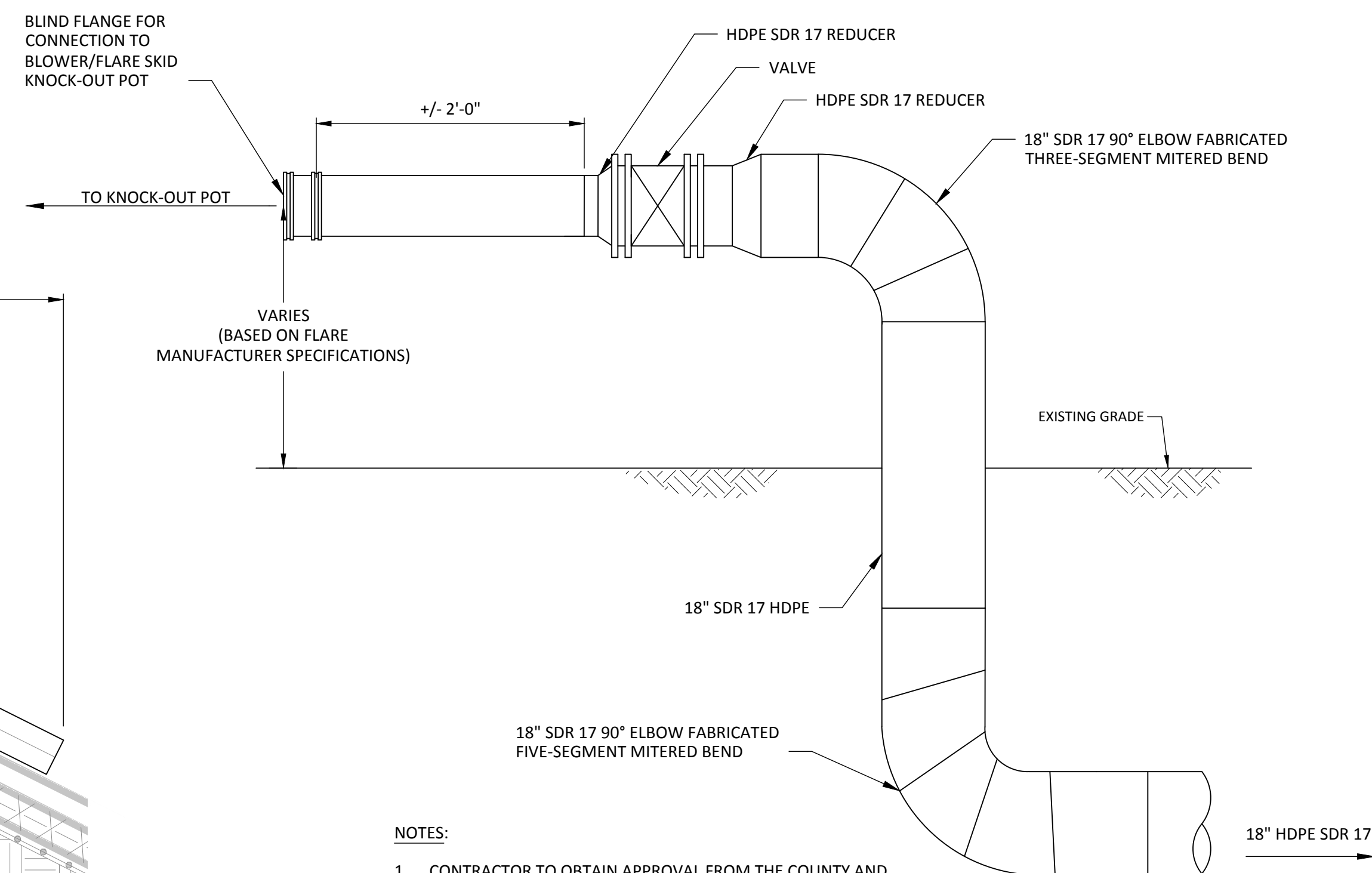
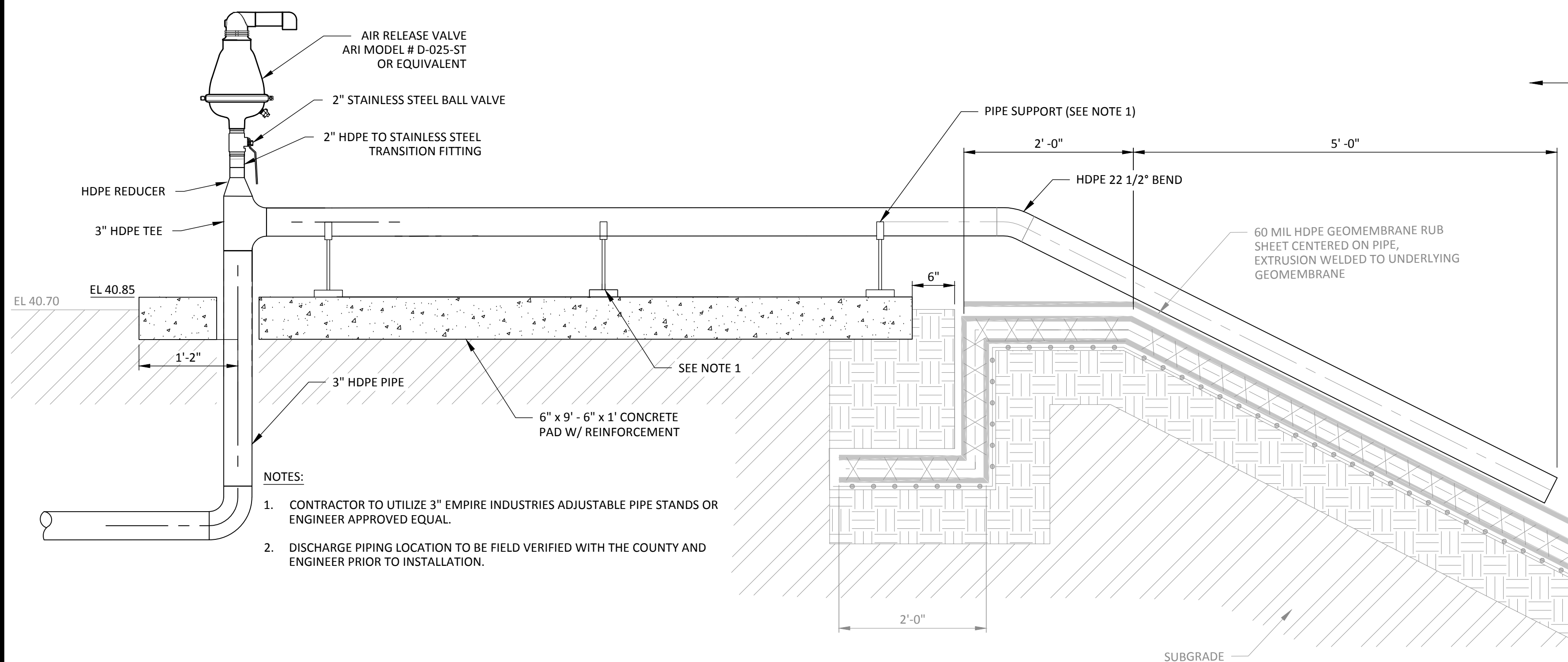
SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 821-0080 FAX NO. (813) 623-6757 FLORIDA FIRM REGISTRATION RY-4892										CLIENT LEE/HENDRY REGIONAL SOLID WASTE DISPOSAL FACILITY 5500 CHURCH RD. FELDA, FL 33930										SHEET TITLE DETAILS - III	CHK. BY
PROJ. NO. 09223126.00 SWAY. BY: TLR CHK. BY: SMIL DATE: 09/22/21 APP. BY: DRC										REV DATE DESCRIPTION											
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- ### CONDENSATE DISCHARGE DUAL CLEANOUT DETAIL



- BURIED BLIND FLANGE FOR FUTURE EXPANSION DETAIL**
NOT TO SCALE



- ### HEADER CONNECTION TO FLARE DETAIL

ISSUED FOR BID
DATE: 6/28/2024



SPECIFICATIONS FOR FENCE



SHEET TITLE	DETAILS - VI
PROJECT TITLE	LEE/HENDRY GAS COLLECTION AND CONTROL SYSTEM

CLIENT
**LEE/HENDRY REGIONAL
SOLID WASTE DISPOSAL
FACILITY**
5500 CHURCH RD.
FELDA, FL 33930

SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3922 CONQUETING DRIVE SUITE 102, TAMPA, FL 33619 PH (813) 821-0080 FAX NO. (813) 823-6757 FLORIDA FIRM REGISTRATION RY-4882	PROJ NO:	231126.00	DATE BY:	08/23/12	DATE BY:	08/23/12	DATE BY:	08/23/12
	QIA REVIEW BY:	AFV	QIA REVIEW BY:	AFV	QIA REVIEW BY:	AFV	QIA REVIEW BY:	AFV
	APP. BY:		APP. BY:		APP. BY:		APP. BY:	
	CHK. BY:	SMIL	CHK. BY:	SMIL	CHK. BY:	SMIL	CHK. BY:	SMIL
	DATE BY:		DATE BY:		DATE BY:		DATE BY:	

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08 - DETAILS

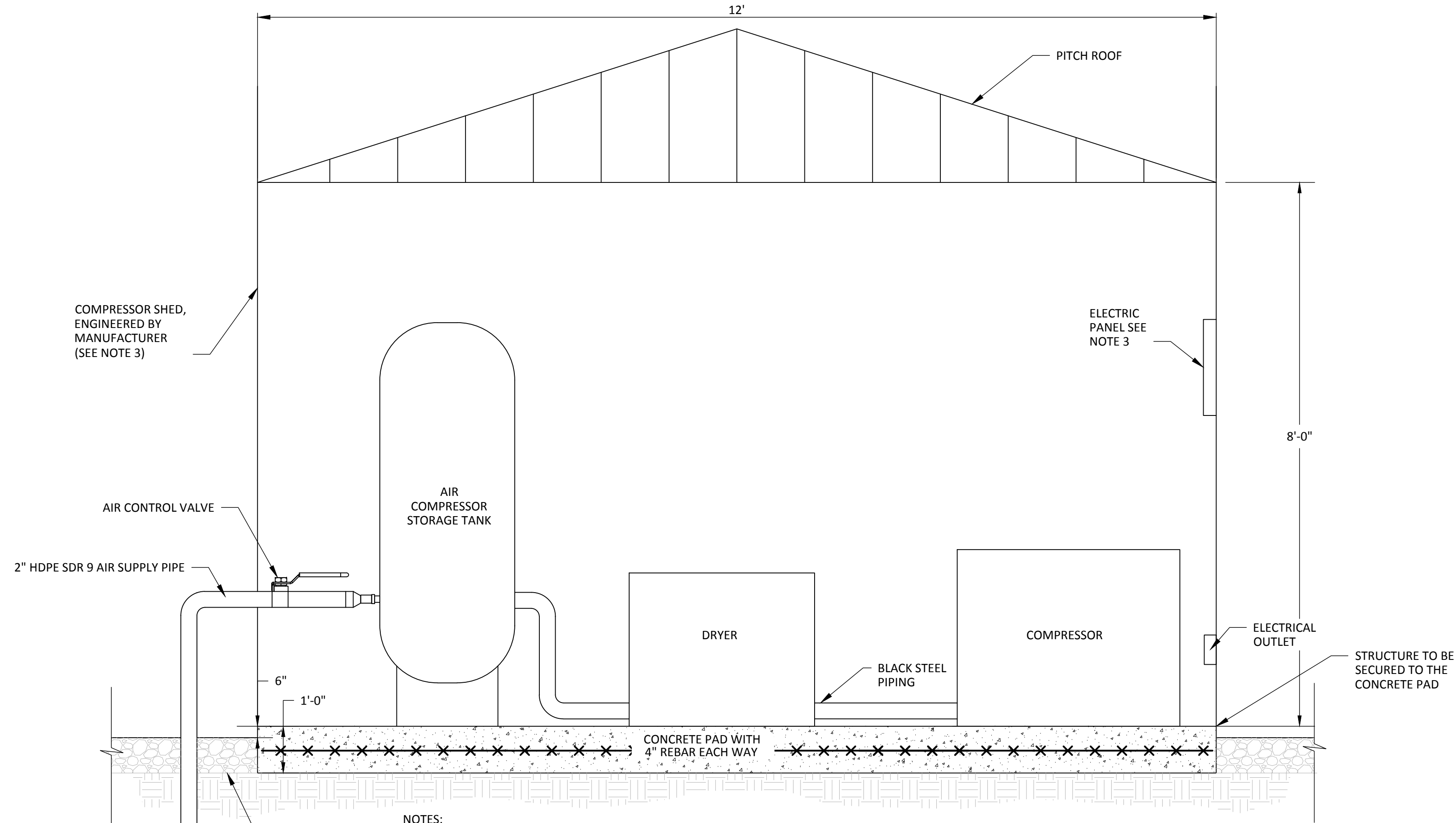
DATE:
JUNE 2024

SCALE:
AS SHOWN

DRAWING NO.
14

SHEET **14** of **22**

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NOTES:

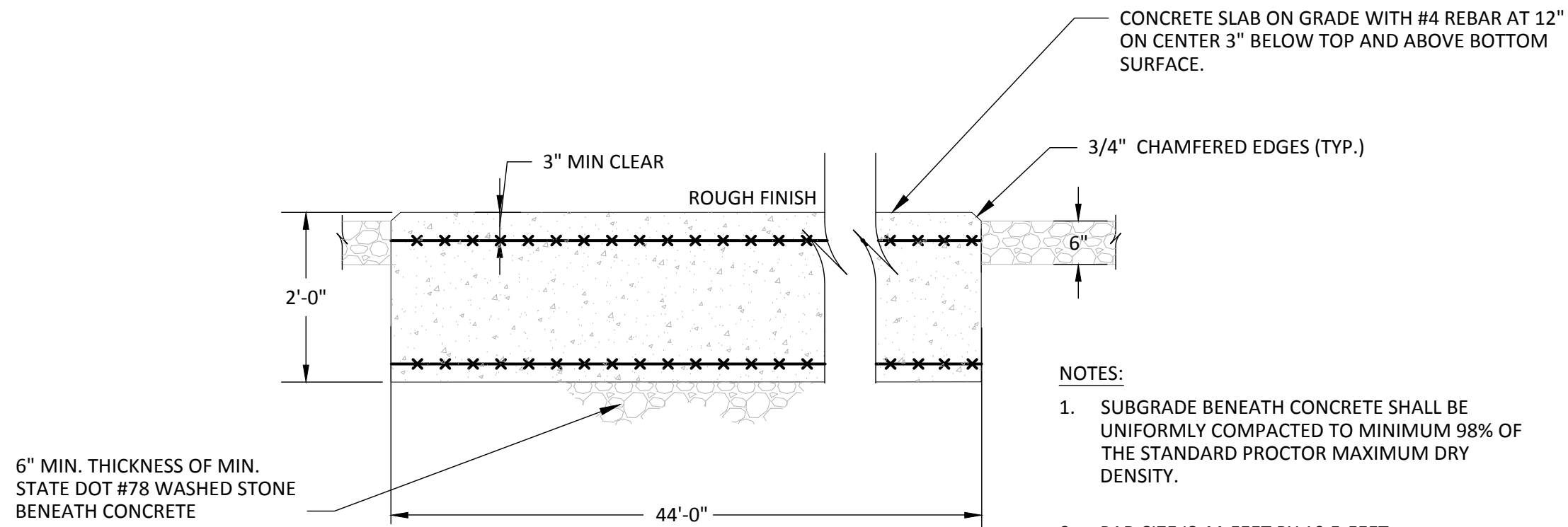
- COMPRESSOR PAD TO BE 12-FEET BY 10-FEET.
- AIR COMPRESSOR TO HAVE THE CAPACITY TO SUPPLY A MINIMUM OF 100 CFM AT 125 PSI.
- COMPRESSOR SHED TO HAVE THREE WALLS, WITH THE OPEN SIDE FACING NORTH. CONTRACTOR TO PROVIDE SUBMITTAL OF PROPOSED PRE-ENGINEERED SHED THAT WILL ACCOMMODATE THE AIR COMPRESSOR AND ALL RELATED CONNECTIONS WHILE ALLOWING CLEARANCE ALL AROUND INSIDE STRUCTURE FOR MAINTENANCE.
- ELECTRICIAN TO PROVIDE EXACT LOCATION OF ELECTRIC PANEL.
- SUBGRADE BENEATH CONCRETE SHALL BE UNIFORMLY COMPACTED TO MINIMUM 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY.
- ALL CONCRETE TESTING TO BE COORDINATED BY THE CONTRACTOR. CONCRETE TESTING TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS ASTM C31, ASTM C39, ASTM C138, ASTM C172, ASTM C173, ASTM C231 AND ASTM C1064. ALL RESULTS TO BE PROVIDED TO THE ENGINEER.
- CONCRETE COMPRESSIVE STRENGTH TO BE 4,000 PSI AT 28 DAYS.
- CONTRACTOR TO CONSULT WITH ENGINEER AND AIR COMPRESSOR MANUFACTURER ON PIPING LAYOUT WITHIN THE COMPRESSOR SHED AND PAD.

AIR COMPRESSOR DETAIL

NOT TO SCALE

1

07 15



NOTES:

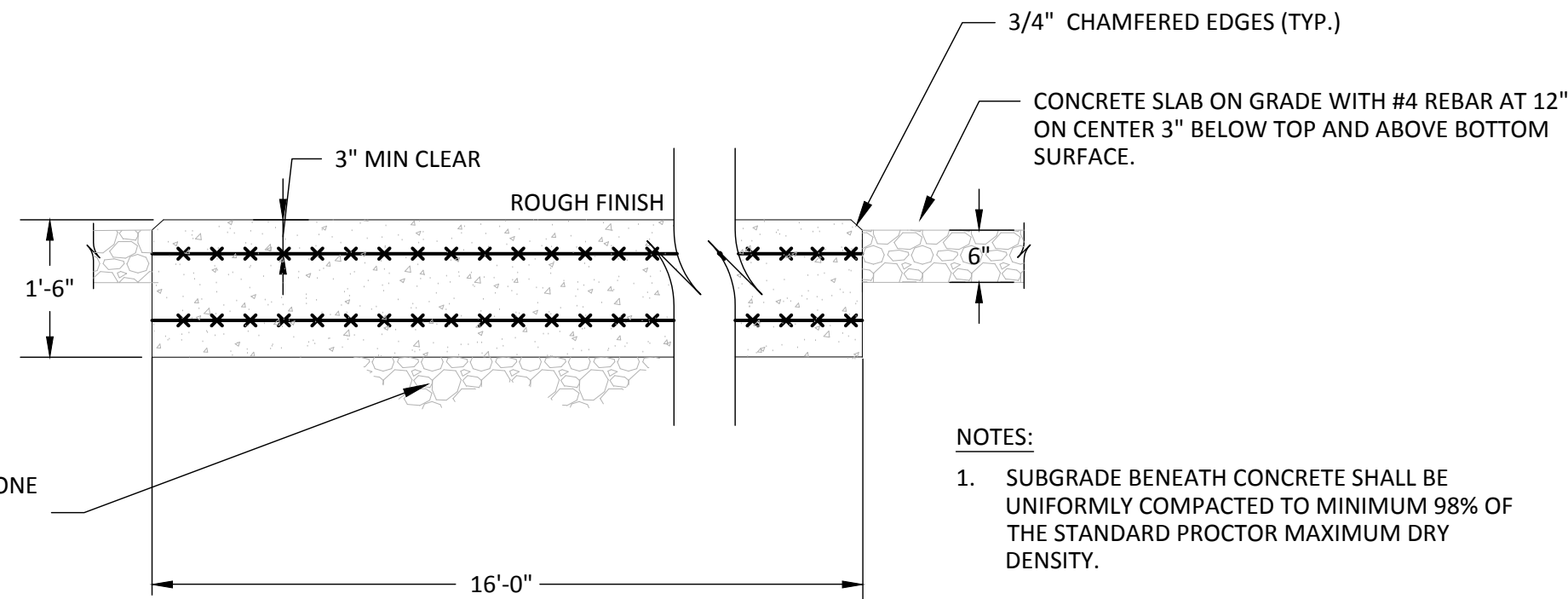
- SUBGRADE BENEATH CONCRETE SHALL BE UNIFORMLY COMPACTED TO MINIMUM 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY.
- PAD SIZE IS 44-FEET BY 10.5-FEET.
- ALL CONCRETE TESTING TO BE COORDINATED BY THE CONTRACTOR. CONCRETE TESTING TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS ASTM C31, ASTM C39, ASTM C138, ASTM C172, ASTM C173, ASTM C231 AND ASTM C1064. ALL RESULTS TO BE PROVIDED TO THE ENGINEER.
- CONCRETE COMPRESSIVE STRENGTH TO BE 4,000 PSI AT 28 DAYS.

FLARE PAD DETAIL

NOT TO SCALE

2

07 15



NOTES:

- SUBGRADE BENEATH CONCRETE SHALL BE UNIFORMLY COMPACTED TO MINIMUM 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY.
- PAD SIZE IS 16-FEET BY 6-FEET.
- ALL CONCRETE TESTING TO BE COORDINATED BY THE CONTRACTOR. CONCRETE TESTING TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS ASTM C31, ASTM C39, ASTM C138, ASTM C172, ASTM C173, ASTM C231 AND ASTM C1064. ALL RESULTS TO BE PROVIDED TO THE ENGINEER.
- CONCRETE COMPRESSIVE STRENGTH TO BE 4,000 PSI AT 28 DAYS.

GENERATOR PAD DETAIL

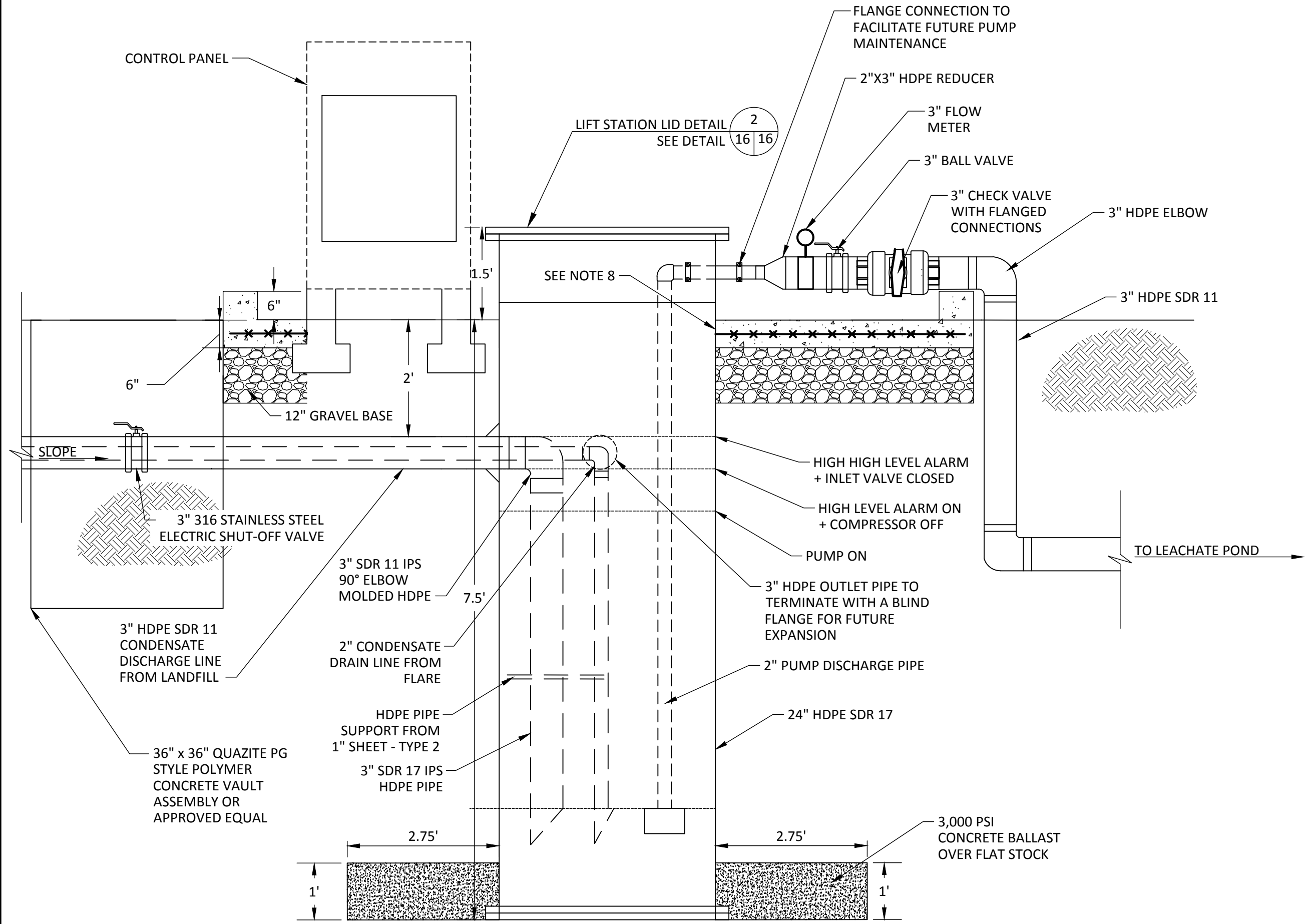
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3

07 15

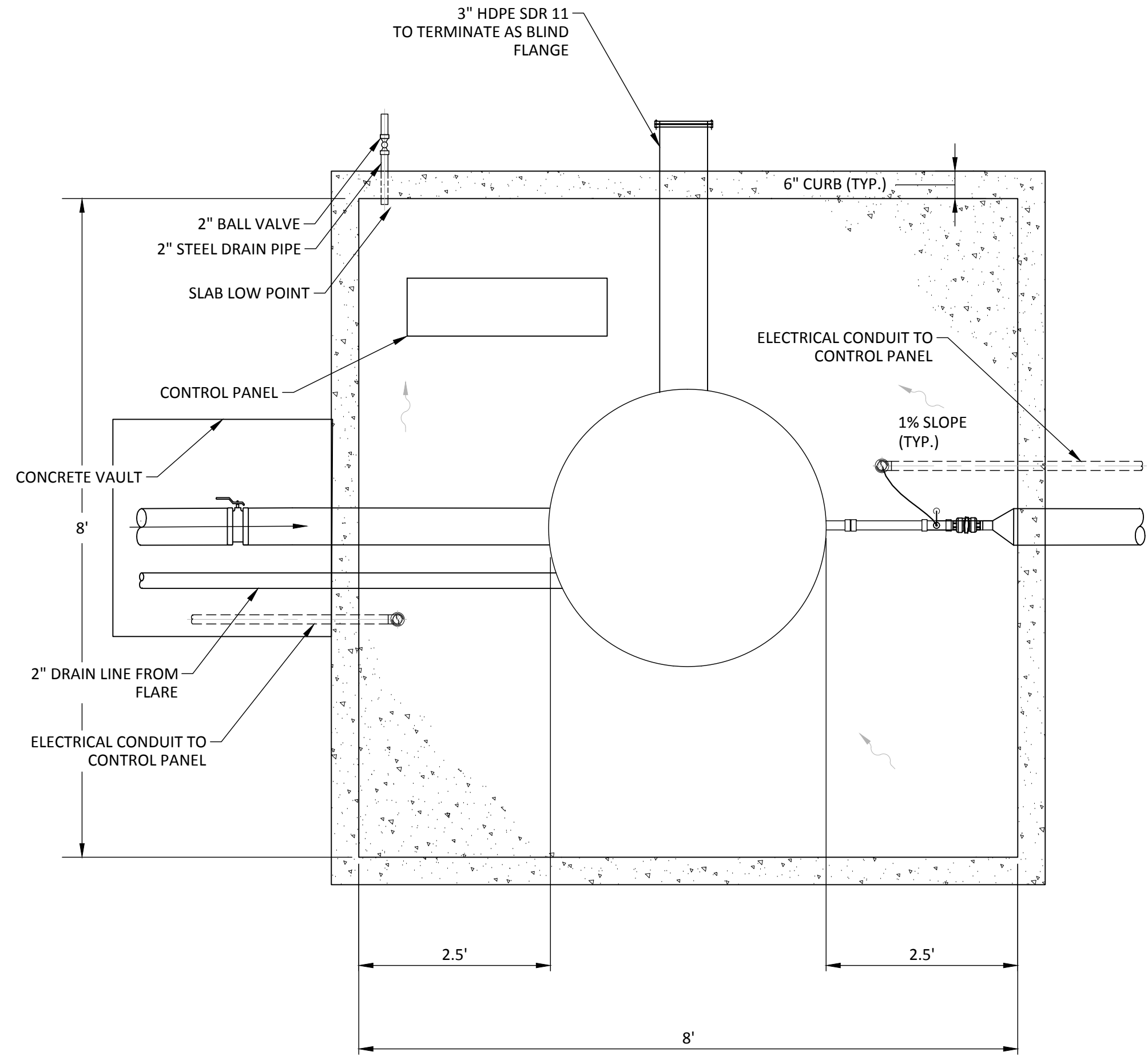
SHEET TITLE		DETAILS - VII		CHK. BY	DESCRIPTION	DATE	REV
PROJECT TITLE		LEE/HENDRY GAS COLLECTION AND CONTROL SYSTEM					
CLIENT		LEE/HENDRY REGIONAL SOLID WASTE DISPOSAL FACILITY					
5500 CHURCH RD. FELDA, FL 33930							
SCS ENGINEERS		STEARN, CONRAD AND SCHMIDT CONSULTING ENGINEERS					
3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619		PH (813) 821-0080 FAX NO. (813) 823-6757					
FLORIDA FIRM REGISTRATION RY-4892		TAMPA, FL 33619					
PROJ. NO. 09223126.00		TDR BY: TLR					
PSN. BY: SML		CHK. BY: SML					
APP. BY: AFV		DRC					
CADD FILE: 08 - DETAILS		DATE: JUNE 2024					
SCALE: AS SHOWN		DRAWING NO. 15					
SHEET 15 of 22		ISSUED FOR BID					
DATE: 6/28/2024		DANIEL R. COOPER, P.E.					
		LICENSE NO. 66440					

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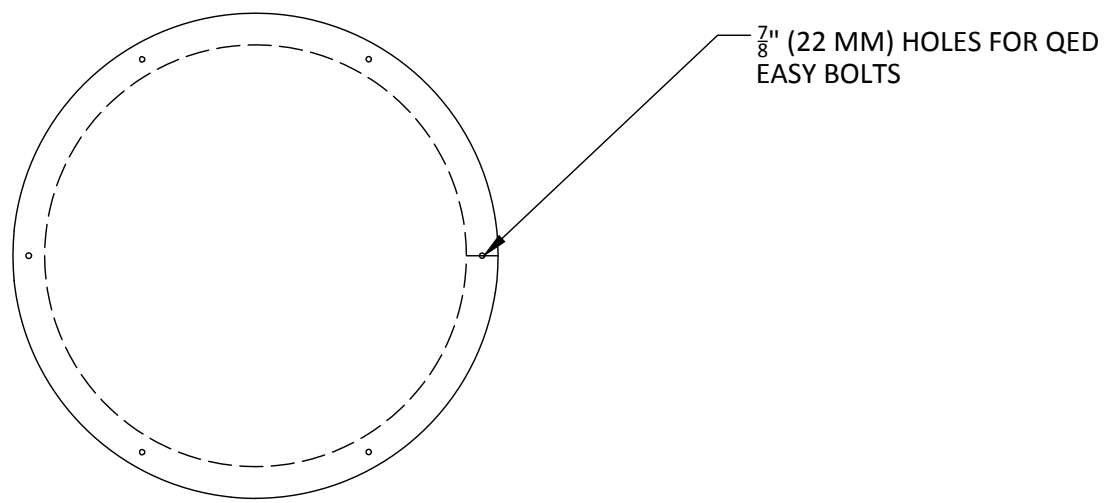
NOTES:

1. THE ELECTRIC PUMP INSTALLED IN THE LIFT STATION SHALL BE A GunnCo SIDESLOPER P2K40 SERIES STAINLESS STEEL/TEFLON FITTED PUMP WITH 1 HP $\frac{3}{4}$ HP V MOTOR IN STAINLESS STEEL PERFORATED SCREEN OR EQUIVALENT.
2. THE PUMP MUST HAVE AN ADJUSTABLE LEVEL CONTROL WITH TRANSDUCER PROGRAMMED FOR PUMP ON, PUMP OFF, PUMP HIGH-LEVEL ALARM, AND PUMP HIGH-HIGH LEVEL SHUTOFF DEPTHS AS SHOWN ON THE DETAIL. CONTROLS ARE TO BE SET UP TO AUTOMATICALLY SHUT OFF THE VALVE ON THE INLET 3" HDPE SDR 17 PIPE TO THE LIFT STATION FOR A SUMP HIGH-HIGH LEVEL ALARM.
3. A SHUT-OFF VALVE IS TO BE INSTALLED ON THE INLET OF 3" HDPE SDR 17 PIPE FROM THE LANDFILL TO THE LIFT STATION.
4. CONTRACTOR TO INSTALL ALL CONTROLS AND ELECTRICAL WIRING REQUIRED FOR AUTOMATED OPERATION OF THE ELECTRIC PUMP.
5. THE LIFT STATION IS TO BE EQUIPPED WITH A FLASHING LED LIGHT ALARM DISPLAY FOR HIGH AND HIGH-HIGH LEVEL CONDITIONS.
6. CONSTRUCTION SUBMITTAL FOR THE LIFT STATION AND ALL APPURTENANCES ARE TO BE PROVIDED TO THE ENGINEER PRIOR TO PURCHASING.
7. GRAVEL BASE AND CONCRETE PAD SHALL BE CONTINUOUS AROUND LIFT STATION AND MAINTAIN A SLOPE TOWARDS THE 2" DRAIN PIPE. LOW POINT TO BE COORDINATED IN THE FIELD WITH THE COUNTY AND ENGINEER.
8. CONTRACTOR TO APPLY DAP POLYURETHANE SEALANT OR EQUIVALENT BETWEEN CONCRETE AND SUMP.
9. CONTRACTOR TO PROVIDE DEWATERING DURING SUMP INSTALLATION FOR 7 DAYS UNTIL CONCRETE BALLAST IS CURED.
10. ALL CONCRETE TESTING TO BE PERFORMED/COORDINATED BY THE CONTRACTOR. RESULTS TO BE PROVIDED TO THE ENGINEER. CONCRETE CYLINDERS TO BE USED FOR CURING CONCRETE TEST AT DAY 7, DAY 14, AND DAY 28.



PLAN VIEW

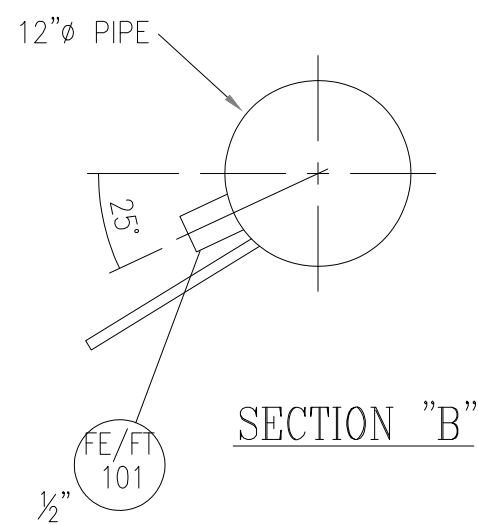
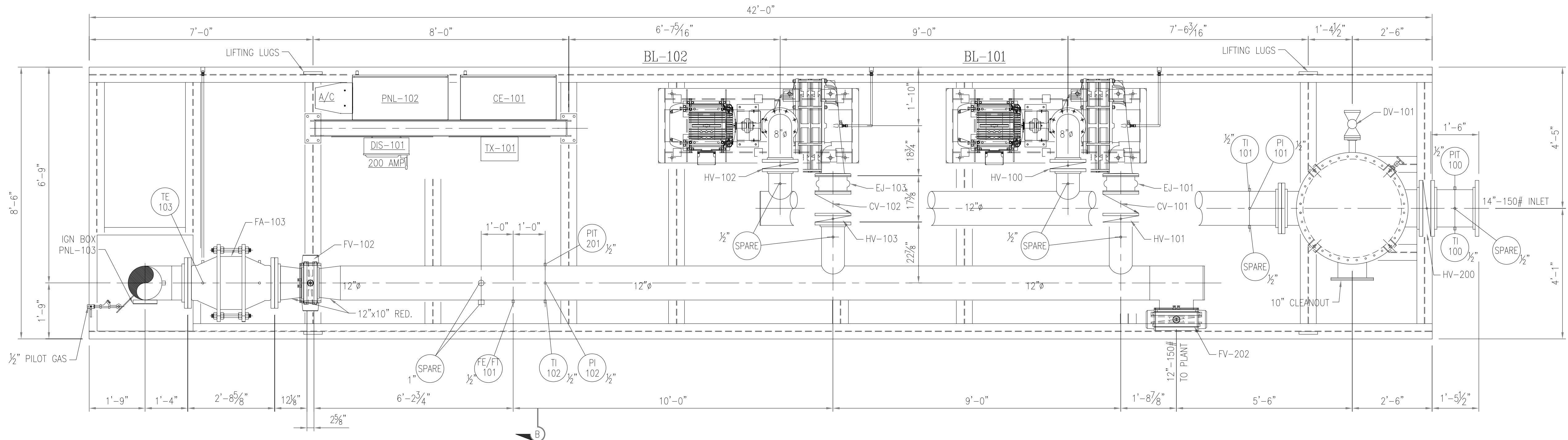
LIFT STATION DETAIL 1
NOT TO SCALE
05.07



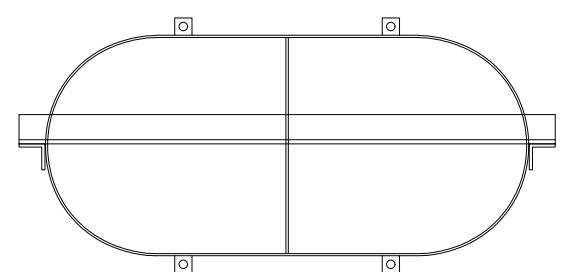
LIFT STATION LID DETAIL DETAIL 2
NOT TO SCALE

SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 621-0080 FAX NO. (813) 623-6757 FLORIDA FIRM REGISTRATION RY-4892										CLIENT LEE/HENDRY REGIONAL SOLID WASTE DISPOSAL FACILITY 5500 CHURCH RD. FELDA, FL 33930										SHEET TITLE DETAILS - VIII PROJECT TITLE LEE/HENDRY GAS COLLECTION AND CONTROL SYSTEM										CHK. BY									
CADD FILE: 08 - DETAILS										DATE: JUNE 2024										SCALE: AS SHOWN										DRAWING NO. 16									
PROJ. NO. 09223126-00										SMA. BY: TLR										Q/A/WW. BY: AFV																			
DSN. BY: SML										CHK. BY: SML										APP. BY: DRC																			
SHEET 16										of 22										DANIEL R. COOPER, P.E.										LICENSE NO. 66440									

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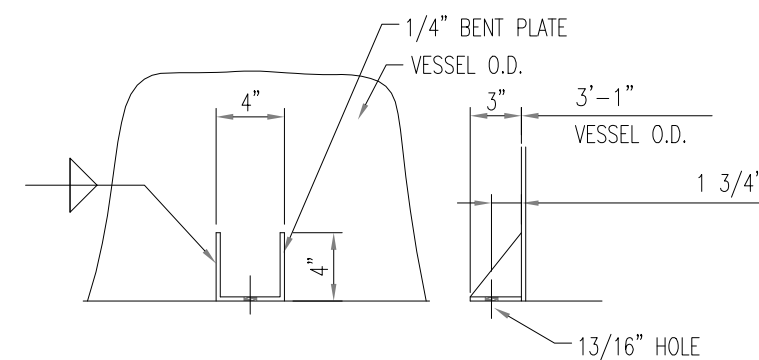
SECTION "B"



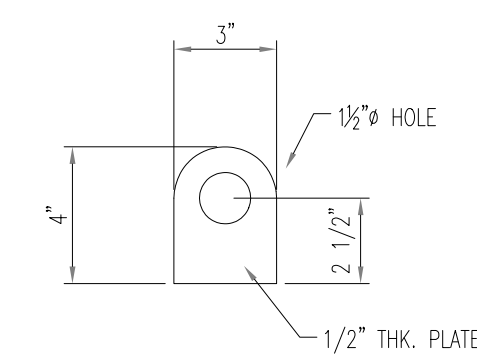
SHIP LOOSE PROPANE RACK

BLOWER AND FLARE STATION - TOP VIEW DETAIL
NOT TO SCALE

1
06 17



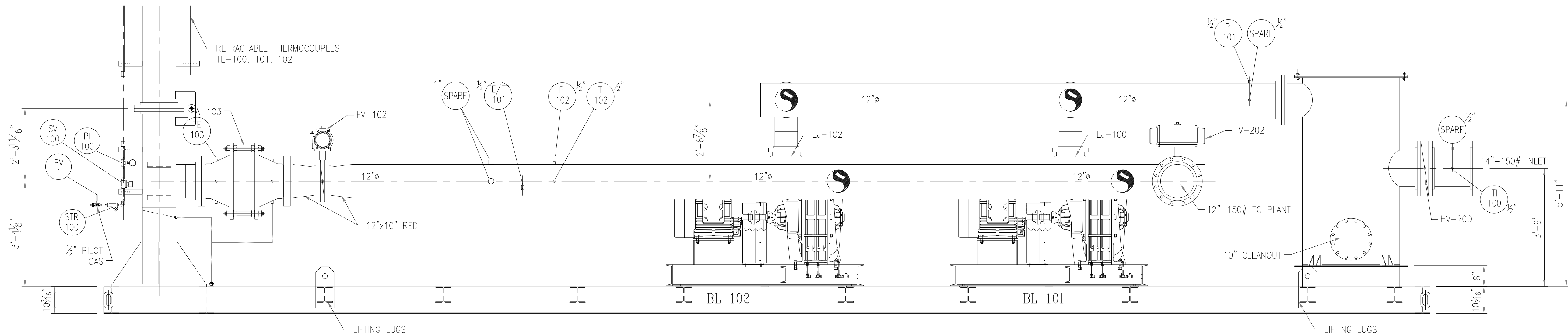
ANCHOR CLIP DETAIL
FOUR REQ'D AS SHOWN (LOCATE AT 45°)



LID LIFTING LUG DETAIL

NOTES

1. ALL MATERIAL TO BE 304SS.
2. ALL NOZZLES TO HAVE 1" MIN. PROJECTION INSIDE.



BLOWER AND FLARE STATION - SIDE VIEW DETAIL
NOT TO SCALE

2
17 17

NOTES:

1. FLARE SKID LAYOUT SHOWN FOR INFORMATIONAL PURPOSES ONLY AND TO INDICATE GENERAL LAYOUT AND LOCATION OF MAIN COMPONENTS.
2. CONTRACTOR TO VERIFY WITH SELECTED FLARE SKID AND DETERMINE FINAL REQUIREMENTS.
3. FLARE SCHEMATIC PROVIDED BY PARNEL BIOGAS INC.

ISSUED FOR BID
DATE: 6/28/2024

SCS ENGINEERS										LEE/HENDRY REGIONAL SOLID WASTE DISPOSAL FACILITY										DETAILS - IX											
STEARNS, CONRAD AND SCHMIDT										5500 CHURCH RD. FELDA, FL 33930																					
CONSULTING ENGINEERS																															
3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619																															
PH (813) 821-0080 FAX NO. (813) 823-6757																															
FLORIDA FIRM REGISTRATION RY-4892																															
PROJECT NO. 09223126.00										PROJECT TITLE																					
DESIGN BY: SML										LEE/HENDRY GAS COLLECTION AND CONTROL SYSTEM																					
CHECK BY: SML																															
APPROVED BY: AFV																															
DATE: JUNE 2024																															
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SPECIFICATIONS – DIVISION 26

PART 1 GENERAL

1.01 THE TERM "PROVIDE" SHALL MEAN FURNISH AND INSTALL ITEMS OR SYSTEMS IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

1.02 PROVIDE A COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM AS DESCRIBED OR SHOWN.

1.03 PROVIDE APPURTENANCES AND CONSUMABLES AS REQUIRED.

1.04 COORDINATE ALL INTERCONNECTIONS TO AND BETWEEN THE ELECTRICAL SERVICE, THE SKID AND THE FLARE.

1.05 COMPLY WITH LATEST EDITION OF NATIONAL ELECTRICAL CODE, APPLICABLE STATE AND LOCAL CODES, ORDINANCES AND OSHA REQUIREMENTS.

1.06 WHERE A CONFLICT EXISTS BETWEEN ANY PREVAILING CODES AND WORK INDICATED ON THESE DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

1.07 PAY FOR ALL ELECTRICAL PERMITS, LICENSES AND CONSTRUCTION FEES.

1.08 EXAMINE SITE AND PREMISES PRIOR TO SUBMISSION OF BID. NO ADDITIONAL COMPENSATION WILL BE MADE FOR EXTRA EXPENSE INCURRED DUE TO FAILURE TO EXAMINE EXISTING SITE CONDITIONS.

1.09 SCHEDULE SERVICE INTERRUPTIONS IN WRITING WITH OWNER AND USER GROUPS ONE (1) WEEK IN ADVANCE.

1.10 PROVIDE TEMPORARY ELECTRICAL SERVICE AND POWER FOR CONSTRUCTION. REMOVE ALL TEMPORARY WIRING AFTER COMPLETION OF CONSTRUCTION.

1.11 COORDINATE THE NEW ELECTRICAL SERVICE WITH THE LOCAL UTILITY COMPANY.

1.12 ALL MATERIALS SHALL BE NEW AND BEAR U.L. LABEL.

1.13 SUBMIT SHOP DRAWINGS (5 COPIES) ON ALL PROPOSED MATERIALS. SHOP DRAWINGS TO BE SUBMITTED WITHIN 10 DAYS OF AWARD OF CONTRACT FOR REVIEW.

PART 2 PRODUCTS

2.01 WIRE AND CABLE SHALL BE COPPER WITH THWN OR THHN INSULATION. MOTOR AND CONTROL CONNECTIONS SHALL BE WITH STRANDED CONDUCTORS. WIRE AND CABLE SHALL BE AS MANUFACTURED BY ANACONDA, PHELPS-DODGE, PIRELLI, SOUTHWIRE, OR TRIANGLE.

2.02 ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT UNLESS NOTED OTHERWISE.

2.03 CONDUIT IN AREAS SUBJECT TO MECHANICAL INJURY, SHALL BE RIGID METAL CONDUIT, GALVANIZED, WITH THREADED FITTINGS.

2.04 CONDUIT SUBJECT TO VIBRATION OR WHERE USED FOR MECHANICAL EQUIPMENT CONNECTIONS SHALL BE PVC JACKETED FLEXIBLE METAL CONDUIT.

2.05 OUTLET AND JUNCTION BOXES SHALL BE OF PRESSED STEEL AND AS MANUFACTURED BY STEEL CITY, APPLETON, OR RACO. OUTLET BOXES SHALL BE DOUBLE GANG BOX WITH SINGLE OR DOUBLE GANG TRIM RINGS AS REQUIRED.

2.06 RECEPTACLES SHALL BE AS MANUFACTURED BY HUBBELL, EAGLE, OR LEVITON AND SHALL BE EQUIVALENT TO HUBBELL 5262. COLOR TO BE IVORY.

2.07 DEVICE PLATES SHALL BE STAINLESS STEEL.

2.08 DRY TYPE TRANSFORMERS SHALL HAVE VOLTAGES AND PHASE PER THE ONE-LINE DIAGRAM, 115 DEGREES C RISE OVER 40 DEGREES C AMBIENT, TOTALLY ENCLOSED, VENTILATED, FOUR 2-1/2" STRADDLE TAPS (TWO ABOVE AND TWO BELOW NORMAL) IN THE PRIMARY WINDINGS WITH NOT GREATER THAN NEMA STANDARD SOUND LEVELS. DRY TYPE TRANSFORMERS SHALL BE AS MANUFACTURED BY ACME, HEAVY DUTY, SORCEL, TIERNEY, ITE, OR WESTINGHOUSE. RATED FOR EXTERIOR USE.

2.09 NEW PANELBOARDS SHALL BE DOOR-IN-DOOR CONSTRUCTION, AND PROVIDED WITH LOCK AND LATCH COMBINATION. EACH PANEL TO HAVE 2 KEYS, ALL PANELS KEYED ALIKE. PROVIDE PROPER IDENTIFICATION AND LABELING OF ALL CIRCUIT BREAKERS. CIRCUIT BREAKERS SHALL BE BOLT-IN TYPE AND SHALL BE IN ACCORDANCE WITH ARTICLE 2.17. PANELBOARDS SHALL BE PROVIDED WITH TYPEWRITTEN CIRCUIT DIRECTORY. PANELBOARDS SHALL BE MANUFACTURED BY WESTINGHOUSE, EATON, SE OR ITE. UPDATE CIRCUIT DIRECTORY IN EXISTING PANELBOARDS TO INDICATE REVISIONS DUE TO WORK UNDER THIS CONTRACT.

2.10 MOTOR AND CIRCUIT DISCONNECTS SHALL BE HEAVY DUTY, FUSIBLE OR NON-FUSIBLE AS INDICATED AND AS MANUFACTURED BY WESTINGHOUSE OR ITE. NEMA 3R.

2.11 EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE. GROUND WIRES SHALL BE COPPER.

2.12 FUSES SHALL BE AS INDICATED AND AS MANUFACTURED BY BUSSMAN OR GOULD-SHAMMUT.

2.13 CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC, QUICK-MAKE, QUICK-BREAK, TRIP-FREE AND TRIP INDICATING. MULTI-POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP. CIRCUIT BREAKERS SHALL BE OF SAME MANUFACTURER AS PANELBOARD OR DISCONNECTING DEVICE.

PART 3 EXECUTION

3.01 REMOVE ALL REFUSE AND WASTE MATERIAL FROM THE SITE WEEKLY.

3.02 PROVIDE TEST EQUIPMENT AND CONDUCT NECESSARY TESTING TO DETERMINE CONFORMITY WITH EQUIPMENT SPECIFICATIONS. PERFORM TESTS UNDER OBSERVATION OF OWNER'S REPRESENTATIVE. CORRECT DEFECTS AND RETEST. COMPLETE TESTS TO SATISFACTION OF OWNER'S REPRESENTATIVE.

3.03 GUARANTEE ELECTRICAL INSTALLATION AND ALL WORK UNDER THIS SECTION (EXCLUDING LAMPS) FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER AGAINST ALL EVIDENCE OF IMPERFECT WORKMANSHIP, FAILURE OR MALFUNCTION OF MATERIALS AND EQUIPMENT. REPLACE WORK FOUND DEFECTIVE WITHIN THIS PERIOD PROMPTLY AT NO COST TO OWNER.

3.04 CONDUIT SHALL BE UNDERGROUND FROM THE SERVICE TO THE SKID AND TO THE FLARE AND HAVE SEAL OFF FITTINGS.

3.05 ADEQUATELY SUPPORT, LEVEL, AND ALIGN LUMINAIRES.

3.06 DRY TYPE TRANSFORMERS SHALL NOT BE RIGIDLY ATTACHED TO THE SERVICE UNI-STRUCT FRAMING. CONDUIT CONNECTIONS TO TRANSFORMERS SHALL BE THROUGH SHORT LENGTHS OF PVC JACKETED FLEXIBLE METAL CONDUIT. TRANSFORMERS SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

EQUIPMENT SCHEDULE

KEY	DESCRIPTION	CHARACTERISTICS					FEEDER	PANEL	LOCAL SWITCH	LOCAL FUSE	SCHEDULE NOTES
		HP	KVA	FLA	VOLTAGE	PH					
B-1	BLOWER	60	64	77	460	3	SEE 1-LINE	PNL 102	125A,3P C.B.		1
B-2	BLOWER	60	64	77	460	3	SEE 1-LINE	PNL 102	125A,3P C.B.		1
GENERAL NOTES: A. VERIFY THE ABOVE SCHEDULED INFORMATION WITH THE GENERAL CONTRACTOR AND SUBMITTALS. NOTIFY ENGINEER OF ANY DEVIATIONS FROM THE ABOVE SCHEDULED INFORMATION PRIOR TO ROUGH-IN. COORDINATE LOCATIONS OF POINTS OF CONNECTION WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN.											
SCHEDULE NOTES (NOTES LISTED BELOW MAY OR MAY NOT BE USED ON THIS SET OF ELECTRICAL DRAWINGS): 1. NEMA 4 DISCONNECT SWITCH. 2. PROVIDE EPO SWITCH IF REQUIRED BY LOCAL CODE.											

ELECTRICAL LEGEND

NOT ALL ITEMS LISTED BELOW ARE USED ON THIS SET OF ELECTRICAL DRAWINGS											
ONE-LINE		LIGHTING		FIRE ALARM		MISCELLANEOUS		POWER DISTRIBUTION			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		
	WEATHERHEAD SERVICE		2x2 RECESSED FLUORESCENT		FIRE ALARM CONTROL PANEL		THERMOSTAT-LINE VOLTAGE		ELECTRICAL DISTRIBUTION EQUIPMENT		
	CIRCUIT BREAKER		2x4 RECESSED FLUORESCENT		FIRE ALARM REMOTE ANNUNCIATOR		FLAG NOTE		MDC MAIN DISTRIBUTION		
	DISCONNECT		RECESSED FLUORESCENT		HALON CONTROL PANEL		SECTION OR ELEVATION BUBBLE		MCC MOTOR CONTROL		
	FUSED DISCONNECT		SURFACE OR PENDANT		REMOTE INDICATOR LIGHT		REMOTE INDICATOR LIGHT WITH CENTER LETTER		SDC SECONDARY DISTRIBUTION CENTER		
	TRANSFORMER		MOUNTED FLUORESCENT		REMOTE INDICATOR LIGHT WITH HOT TEST/RESET SWITCH		REFERENCE DRAWING NUMBER		BUS RISER		
	DELTA CONNECTION WYE CONNECTION		RECESSED DOWNLIGHT LUMINAIRE		BELL		REFERENCE BUBBLE		PANELBOARD		
	SHELVED TRANSFORMER		SURFACE OR PENDANT MOUNTED LUMINAIRE		CHIME		REFERENCE LETTER		PULL BOX		
	CURRENT TRANSFORMER		WALL BRACKET LUMINAIRE		DETECTOR DOOR HOLDER		FIRE/SMOKE DAMPER		METER		
	POTENTIAL TRANSFORMER		RECESSED DIRECTIONAL LUMINAIRE		FLOW SWITCH		HORN		JUNCTION BOX		
	FEEDER KEY		SURFACE DIRECTIONAL LUMINAIRE		HORN/ STROBE		MANUAL PULL STATION		LOCAL CONTACTOR		
	GROUND		LIGHT TRACK		HORN/ STROBE		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
	GROUND BUS		# OF LUMINAIRES SHOWN		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
	DRAWOUT DEVICE		EXIT LUMINAIRE, ARROWS INDICATE DIRECTION, SHADING INDICATES LIGHTED FACES		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
	GROUND CONDUCTOR		LUMINAIRE CONNECTED TO GENERATOR OR BATTERY PACK		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
	CONTROL CIRCUIT		LUMINAIRE CONNECTED TO FIXED TEMPERATURE		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
	TRANSFER SWITCH (AUTOMATIC OR MANUAL)		LUMINAIRE CONNECTED TO UNSWITCHED BRANCH (NIGHT LIGHTING)		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
	PANELBOARD (* INDICATES PANEL TYPE) (* INDICATES FLOOR NUMBER) (X INDICATES PANEL LETTER)		BATTERY PACK W/ LUMINAIRES		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
	L 208Y/120V, 240/120V		REMOTE LUMINAIRE		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
	P 480V/277V, 480V		VARIABLE SPEED DRIVE		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
	LS LIFE SAFETY		TRANSIENT VOLTAGE SURGE SUPPRESSION		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
	C CRITICAL		MOTOR		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
	AE AUTO-EQUIPMENT		METER		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
	C COMPUTER		SHORT CIRCUIT CURRENT KEY		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
	K KITCHEN		GENERATOR		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
	M MECHANICAL		PROTECTIVE RELAY (* INDICATES ANSI NUMBER)		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
	N.O. N.C.		TIMECLOCK		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
	SPF SURGE PROTECTOR		PHOTO ELECTRIC SWITCH		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
			GROUND FAULT INTERRUPTER		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
			ELECTRICAL EQUIPMENT ENCLOSURE		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
			N.O. N.C.		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
			N.C. NORMALLY OPEN		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
			N.O. NORMALLY CLOSED		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
			SPF SURGE PROTECTOR		MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
					MANUAL PULL STATION		MANUAL PULL STATION		LOCAL DISCONNECT WITH OVERCURRENT PROTECTION		
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NOT TO SCALE

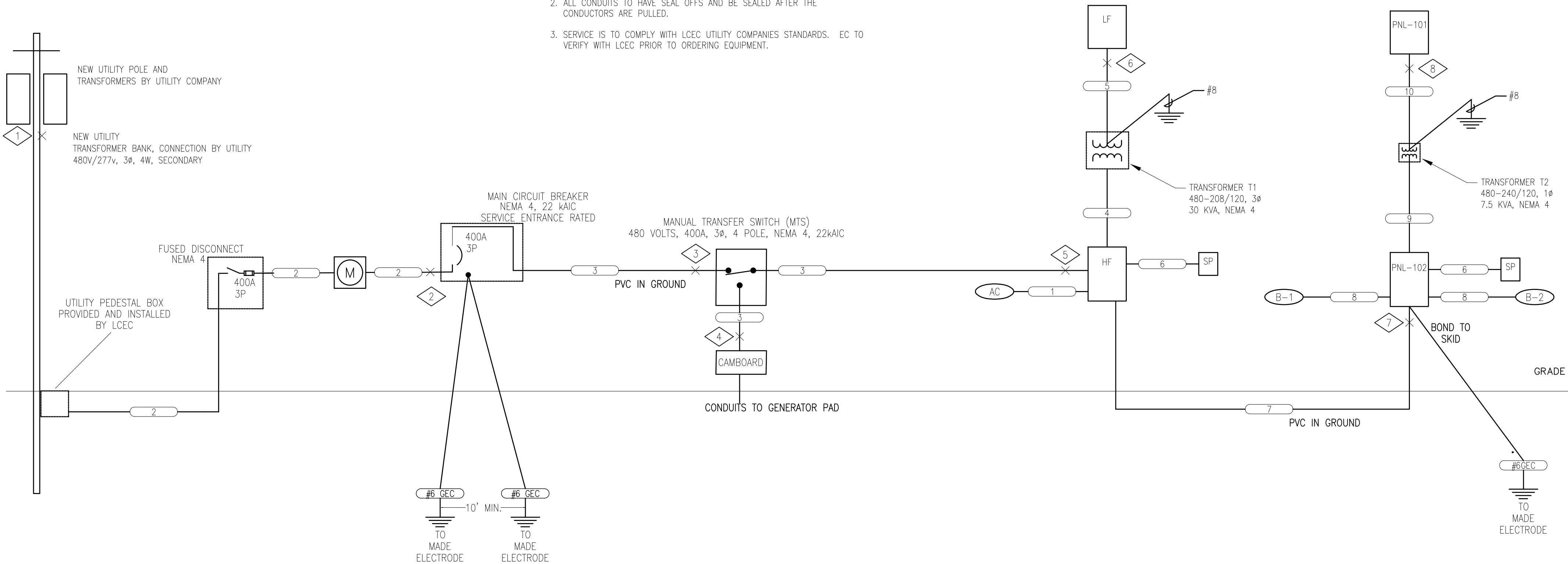
SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 621-0080 FAX NO. (813) 623-6757 FLORIDA FIRM REGISTRATION RY-4892		CLIENT LEE/HENDRY REGIONAL SOLID WASTE DISPOSAL FACILITY 5500 CHURCH RD. FELDA, FL 33930		SHEET TITLE ELECTRICAL ELEVATION		PROJECT TITLE LEE/HENDRY GAS COLLECTION AND CONTROL SYSTEM		CHK. BY	
CADD FILE:		DATE: MAY 2024		SCALE: AS SHOWN		DRAWING NO. E2		REV	
DATE:		SCALE:		DRAWING NO.		REV		DESCRIPTION	
SCALE:		DRAWING NO.		REV		DESCRIPTION		CHK. BY	
DRAWING NO.		REV		DESCRIPTION		CHK. BY		STEVEN M. COOPER LICENSE NO. 71008	

PANEL																									HF (NEW BY EC)				
Voltage					480 / 277					Main Circuit Breaker (400A)																			
Amperacity					400					Mounting										SURFACE									
Phase					3					Aic Rating										14,000									
Wire					4					Notes:										NEMA 4									
DESCRIPTION		Load Type (va)				Brkr		Ckt Brkr		Ckt Brkr		Brkr		Load Type (va)				DESCRIPTION											
		Ltg	Rcpt	Motor	Kitch	Other	Load	Amp	Pl	No	Ph	No	Amp	Pl	Load	Ltg	Rcpt			Motor	Kitch	Other							
XFRM PANEL LF		630					630	50		1	A	2	250	43312	1200			40912			1200	PANEL PNL-102							
---						200				3	B	4		41092			180	40912				---							
---			540				540			3	C	6		3 40912				40912				---							
TRANSFORMER T2						1500	1500	20		7	A	8	30	0								SURGE SUPPRESSOR							
---						1500	1500			2	B	10		0								---							
LTG. POLE		300					300	20		1	11	C	12		3	0						---							
AIR COMP (40 HP)				14400			14400	90		13	A	14	30	0								SPARE							
---				14400			14400			15	B	16		0								---							
---				14400			14400			3	17	C	18		3	0						---							
SPACE						0				19	A	20		0								SPACE							
SPACE						0				21	B	22		0								SPACE							
SPACE						0				23	C	24		0								SPACE							
SPACE						0				25	A	26		0								SPACE							
SPACE						0				27	B	28		0								SPACE							
SPACE						0				29	C	30		0								SPACE							
SPACE						0				31	A	32		0								SPACE							
SPACE						0				33	B	34		0								SPACE							
SPACE						0				35	C	36		0								SPACE							
SPACE						0				37	A	38		0								SPACE							
SPACE						0				39	B	40		0								SPACE							
SPACE						0				41	C	42		0								SPACE							
LOAD SUMMARY																													
						PHASE			TOTAL																				
						A	B	C																					
Lighting						1.8	0.0	0.3			2.7																		
Receptacles						First 10 Kw	0.0	0.2	0.5	0.7	0.7																		
						Remaining					0.0																		
Motors						Largest	6.1	6.1	6.1		22.9																		
						Remaining	49.2	49.2	49.2		147.6																		
Miscellaneous							0.0	0.0	0.0		0.0																		
Other							2.7	1.7	0.0		4.4																		
Total for Phase						59.8	57.2	56.2																					
Panel Total										178.3 KVA																			
Total Ampacity										214 AMPS																			

PANEL																									LF (NEW BY EC)									
Voltage					208 / 120					Main Circuit Breaker (80A)																								
Amperacity					125					Mounting										SURFACE														
Phase					3					Aic Rating										10,000														
Wire					4					Notes:										NEMA 4														
DESCRIPTION					Load Type (va)					Brkr.		Ckt. Brkr.		Load Type (va)					Brkr.		DESCRIPTION													
					Ltg.	Rcpt.	Motor	Kitch.	Other	Load	Amp.	Pl.	No.	Ph.	No.	Amp.	Pl.	No.	Ph.	Load						Ltg.	Rcpt.	Motor	Kitch.	Other				
LTG. CANOPY					630							630		20		1		A		2		20		1		0		SPARE						
VACUUM CONTROL										500		500		20		1		3		B		4		20		1		180		RCPT. AIR COMP				
RCPT. PNL & CANOPY					540							540		20		1		5		C		6		20		1		100		100 FLOW METER				
SPARE										0		20		1		7		A		8		20		1		0		SPARE						
SPARE										0		20		1		9		B		10		20		1		0		SPARE						
SPARE										0		20		1		11		C		12		20		1		0		SPARE						
SPACE										0						13		A		14						0		SPACE						
SPACE										0						15		B		16						0		SPACE						
SPACE										0						17		C		18						0		SPACE						
SPACE										0						19		A		20						0		SPACE						
SPACE										0						21		B		22						0		SPACE						
SPACE										0						23		C		24						0		SPACE						
										0						25		A		26						0								
										0						27		B		28						0								
										0						29		C		30						0								
										0						31		A		32						0								
										0						33		B		34						0								
										0						35		C		36						0								
										0						37		A		38						0								
										0						39		B		40						0								
										0						41		C		42						0								
LOAD SUMMARY																																		
					PHASE					TOTAL					PHASE BALANCING					A-B B-C C-A Percentages 7 6 2														
					A	B	C																											
Lighting					0.6 0.0 0.0					0.8																								
Receptacles					First 10 Kw 0.0 0.2 0.5 0.7					0.7																								
					Remaining 0.0					0.0																								
Motors					Largest 0.0 0.0 0.0					0.0																								
					Remaining 0.0 0.0 0.0					0.0																								
Miscellaneous					0.0 0.0 0.0					0.0																								
Other					0.0 0.5 0.1					0.6																								
Total for Phase					0.6 0.7 0.6																													
Panel Total										2.1 KVA																								
Total Ampercity										6 AMPS																								

GENERAL NOTES

1. THREE CIRCUITS CAN SHARE A NEUTRAL CONDUCTOR AND A GROUND CONDUCTOR.
2. ALL CONDUITS TO HAVE SEAL OFFS AND BE SEALED AFTER THE CONDUCTORS ARE PULLED.
3. SERVICE IS TO COMPLY WITH LCEC UTILITY COMPANIES STANDARDS. EC TO VERIFY WITH LCEC PRIOR TO ORDERING EQUIPMENT.



1 ELECTRICAL ONE-LINE DIAGRAM
E4 NOT TO SCALE

FEEDER SCHEDULE

KEY	CONDUCTORS	METALLIC CONDUIT (IN)	NON-METALLIC CONDUIT (IN)
1	3#2+8G	1-1/4	1-1/4
2	4#500	4	4
3	4#500+3G	4	--
4	3#6+10G	3/4	3/4
5	4#3+8BJ	1-1/4	1-1/4
6	3#10+10G	3/4	--
7	4#250+4G	3	3
8	3#1/0 + 8G	1-1/2	1-1/2
9	2#12+12G	3/4	--
10	3#4+8BJ	1	--

REFER TO SPECIFICATIONS ON THIS SHEET AND THE NEC FOR INSTALLATION OF CONDUIT TYPE. ALL CONDUCTORS ARE TO BE XHHW COPPER.

SHORT CIRCUIT CURRENT SCHEDULE

KEY	AMPERES	
	AVAILABLE	LET-THROUGH
1	12,800	--
2	11,026	--
3	10,826	--
4	10,729	--
5	10,729	--
6	3,401	--
7	9,954	--
8	1,815	--

* BASED ON (3) 50 KVA TRANSFORMERS.

UTILITY CONTACT

LEE COUNTY ELECTRIC COOPERATIVE

JUAN GARCIA
Cell: 239 322-9514

Email: juan.garcia@LCEC.net

SHEET TITLE
1 LINE DIAGRAM & SCHEDULES

PROJECT TITLE
LEE/HENDRY GAS COLLECTION AND CONTROL SYSTEM

CLIENT
LEE/HENDRY REGIONAL SOLID WASTE DISPOSAL FACILITY
5500 CHURCH RD.
FELDA, FL 33930

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619
PH (813) 821-0080 FAX NO. (813) 823-6757
FLORIDA FIRM REGISTRATION RY-4892

PROJ NO: 00223126.00
DATE: 05/28/2024
DRAWN BY: DIVM
CHECK BY: SMC
QA/RVV BY: SMC
APP. BY: SMC

CADD FILE:

DATE:
MAY 2024

SCALE:
AS SHOWN

DRAWING NO.

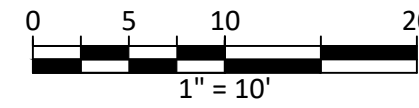
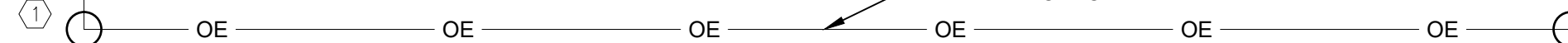
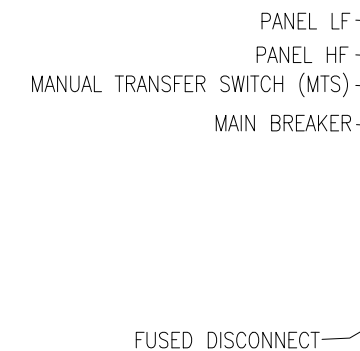
E4

ISSUED FOR BID

DATE: 6/28/2024

REV	DATE	DESCRIPTION	CHK BY
1			
2			
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9			
10			

STEVEN M. COOPER
LICENSE NO. 71008



GENERAL NOTES

1. THREE CIRCUITS CAN SHARE A NEUTRAL CONDUCTOR AND A GROUND CONDUCTOR.
2. ALL CONDUITS TO HAVE SEAL OFFS AND BE SEALED AFTER THE CONDUCTORS ARE PULLED.
3. REFER TO THE CIVIL/FLARE SITE PLAN FOR EXACT DIMENSIONS AND FIELD VERIFY DIMENSIONS PRIOR TO BID.
4. ELECTRICAL CONTRACTOR TO EMAIL CRENGINEERING@MSN.COM, THE TOTAL FEET FOR THE FEEDER FROM THE POLE PANEL HF, PRIOR TO PURCHASING CONDUCTORS.

FLAG NOTES

- ① NEW SERVICE POLE PROVIDED BY LCEC UTILITY COMPANY WITH POLE MOUNTED TRANSFORMER BANK. (3) 25 KVA BANK.
- ② PEDESTAL BOX PROVIDED BY UTILITY, INSTALLED BY EC. EC TO FIELD COORDINATE ALL LOCATIONS AND DISTANCES PRIOR TO BID.
- ③ PROVIDE A 4" AND THREE 1" PVC CONDUITS WITH FULLCOLOS STUBBED TO FUTURE GENERATOR AREA AND CAP THE CONDUITS. FIELD COORDINATE STUB UP LOCATIONS WITH OWNERS REPRESENTATIVE.
- ④ LOCATE RECEPTACLE AT +24" ADJACENT TO DOOR.

SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 621-0080 FAX NO. (813) 623-6757 FLORIDA FIRM REGISTRATION RY-4892	CLIENT LEE/HENDRY REGIONAL SOLID WASTE DISPOSAL FACILITY 5500 CHURCH RD. FELDA, FL 33930				SHEET TITLE ELECTRICAL SITE PLAN	REV DATE DESCRIPTION CHK. BY
	PROJECT TITLE LEE/HENDRY GAS COLLECTION AND CONTROL SYSTEM					
CADD FILE:						
DATE: MAY 2024						
SCALE: AS SHOWN						
DRAWING NO. E5						
STEVEN M. COOPER LICENSE NO. 71008						