

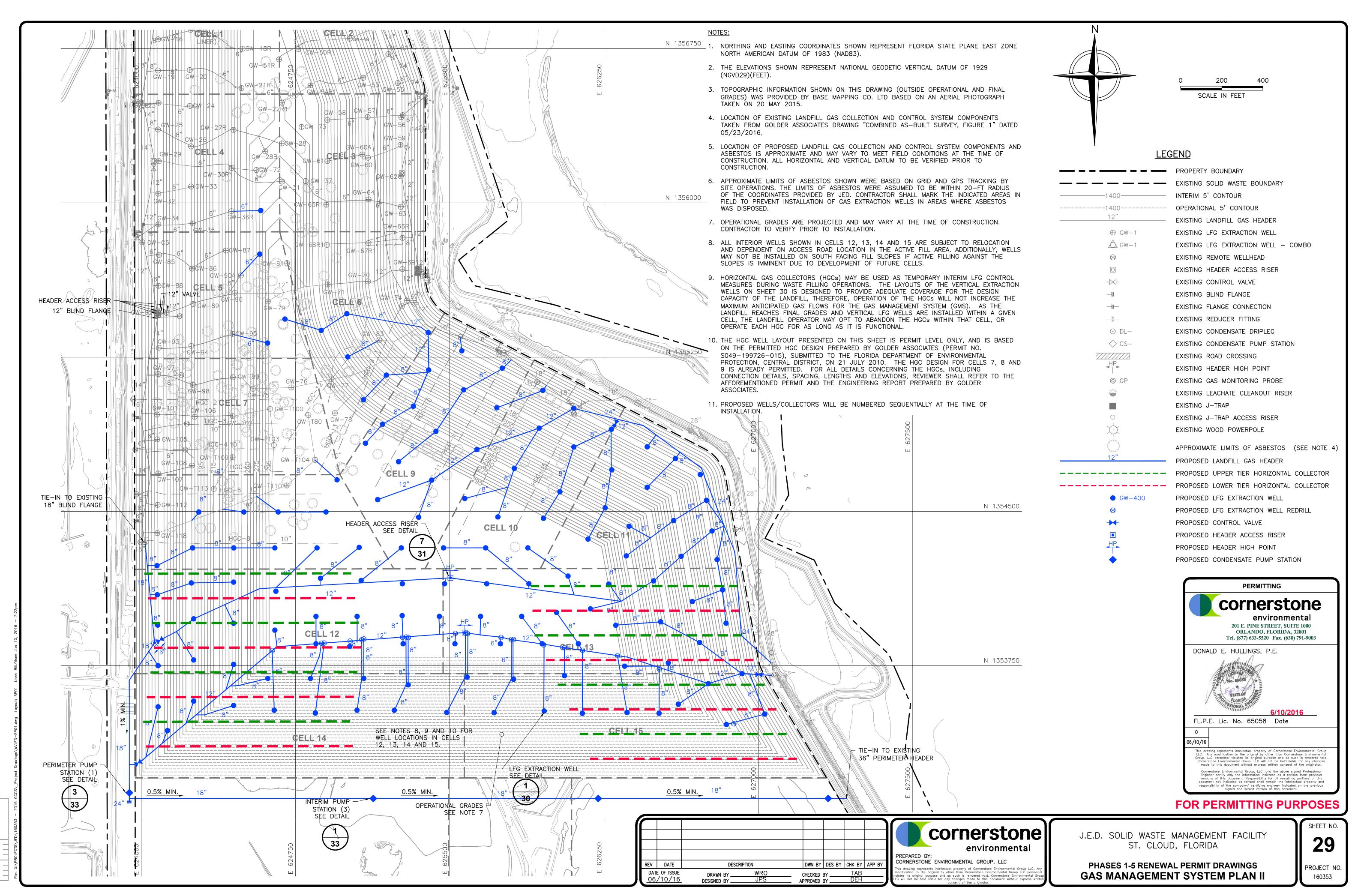
DRAWN BY_

DESIGNED BY ___

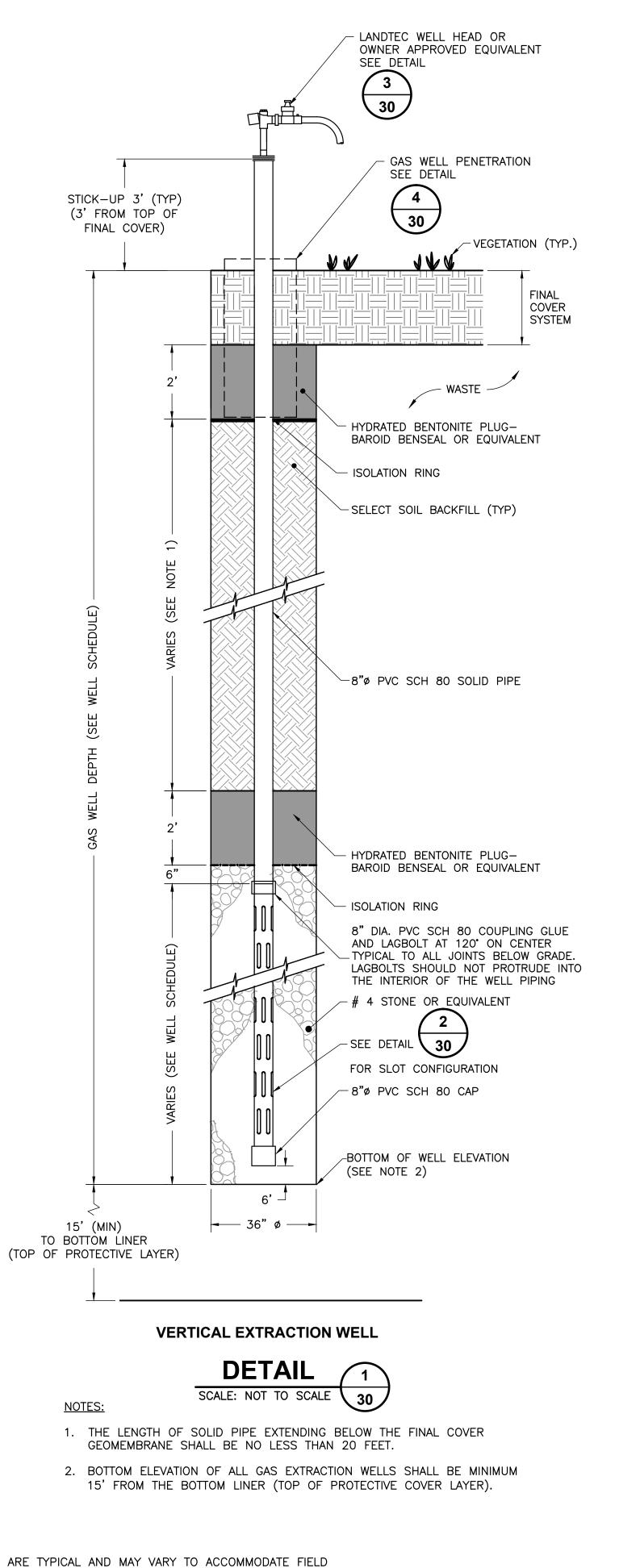
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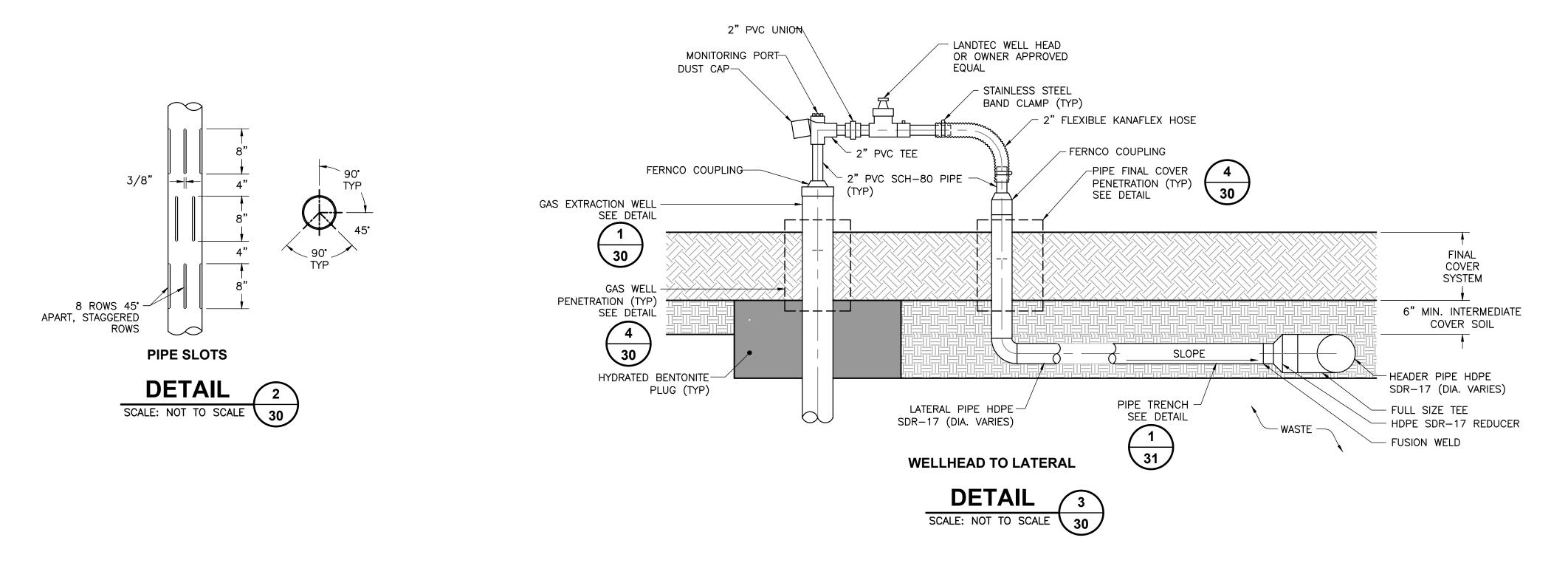
APPROVED BY _

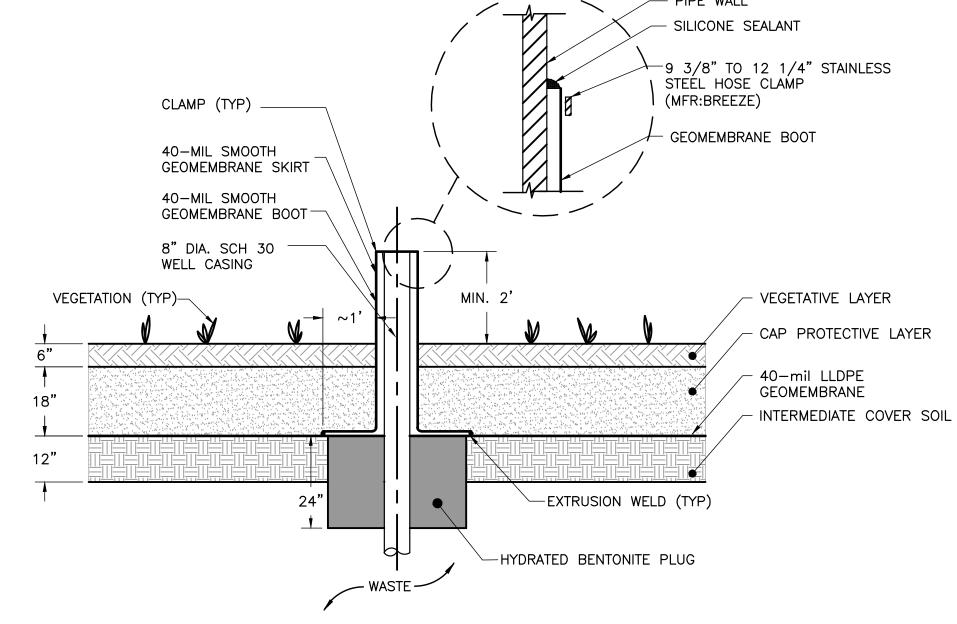
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" 1/2" 0"



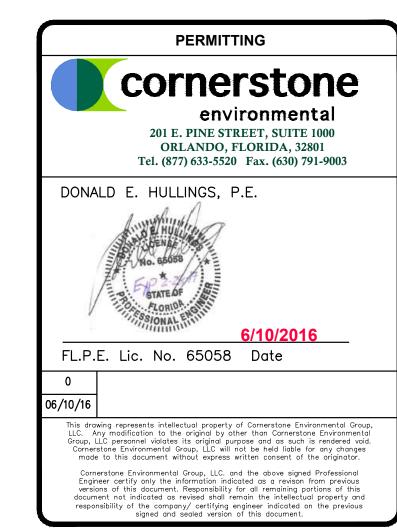




GAS WELL FINAL COVER PENETRATION

DETAIL SCALE: NOT TO SCALE

1. ALTERNATE DESIGN MAY BE USED AT TIME OF CONSTRUCTION.



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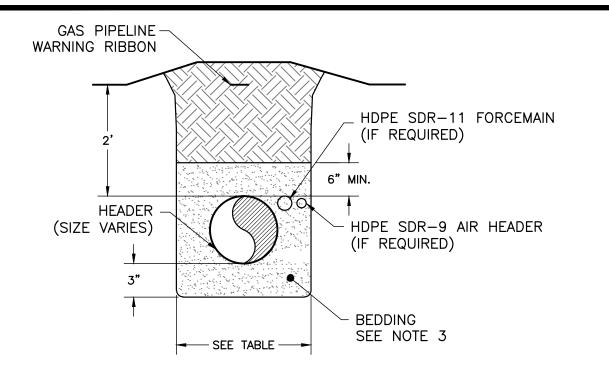
J.E.D. SOLID WASTE MANAGEMENT FACILITY ST. CLOUD, FLORIDA

PHASES 1-5 RENEWAL PERMIT DRAWINGS GAS MANAGEMENT DETAILS I

SHEET NO. PROJECT NO. 160353

NOTE:

1. DETAILS ARE TYPICAL AND MAY VARY TO ACCOMMODATE FIELD CONDITIONS AND LOCATIONS AT THE TIME OF INSTALLATION.

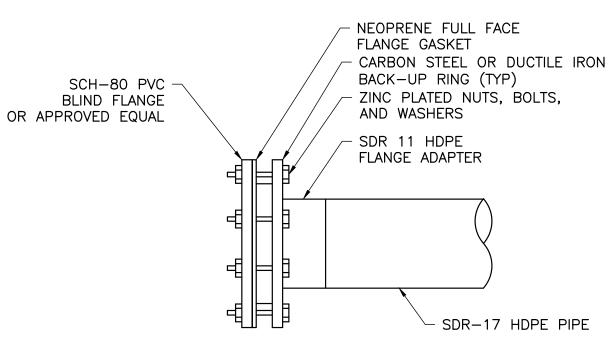


HEADER TRENCH

DETAIL SCALE: NOT TO SCALE

- 1. COMPACT BEDDING/BACKFILL IN 9" MAXIMUM LIFTS.
- 2. DISTURBED AREAS TO BE RESTORED TO ORIGINAL OR BETTER CONDITION.
- 3. UTILIZE ON-SITE SOILS APPROVED BY GOM.

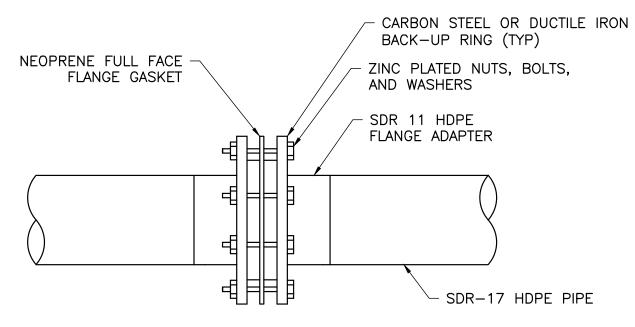
MINIMUM TRENCH WIDTH		
NORMAL PIPE SIZE (INCHES)	MINIMUM TRENCH WIDTH (INCHES)	PARALLEL PIPE CLEARANCE (INCHES)
3" - 6"	PIPE O.D. + 12"	6"
18" – 33"	PIPE O.D. + 18"	9"



BLIND FLANGE ASSEMBLY

DETAIL SCALE: NOT TO SCALE \

- 1. TAPE 5 MIL PLASTIC AROUND ALL BELOW GROUND FLANGE CONNECTIONS.
- 2. ALL BOLTS UNDERGROUND AND ABOVE GROUND TO BE COATED WITH ANTI-SIEZE COMPOUND PRIOR TO ASSEMBLY.



FLANGE ASSEMBLY

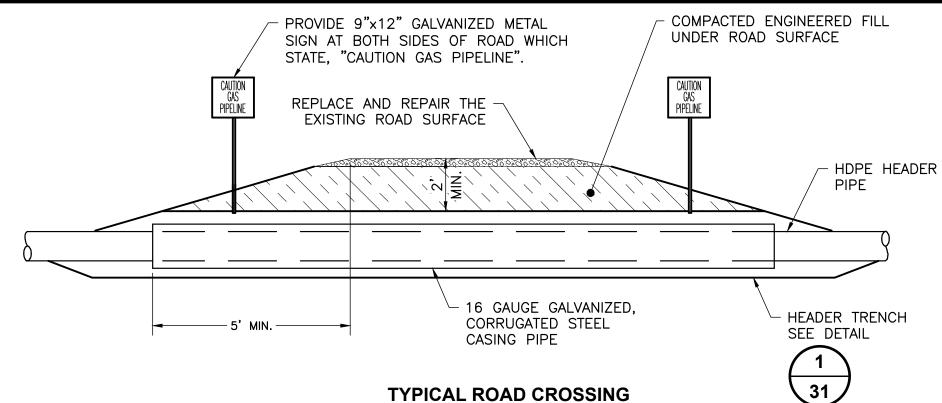
DETAIL SCALE: NOT TO SCALE

FOR 1/2" NPT FITTING

MONITORING PORT

- 1. TAPE 5 MIL PLASTIC AROUND ALL BELOW GROUND FLANGE CONNECTIONS.
- 2. LOCATE VALVE BETWEEN FLANGES WITH APPROPRIATE SPACERS AS REQUIRED.

- HDPE FLANGE ADAPTER WITH



DETAIL SCALE: NOT TO SCALE

PIPE SCHEDULE			
6" HEADER PIPE	10" CASING PIPE OR APPROVED EQUAL		
2" HEADER PIPE	18" CASING PIPE OR APPROVED EQUAL		

24" CASING PIPE OR APPROVED EQUAL

18" HEADER PIPE

- SCH40 PVC CAP FASTENED

WITH PVC CEMENT

─ 4" REFLECTIVE

YELLOW TAPE

-4" BLACK TAPE

✓ 4" REFLECTIVE

YELLOW TAPE

— YELLOW LABEL

-SLIP PVC PIPE

OVER T-POST

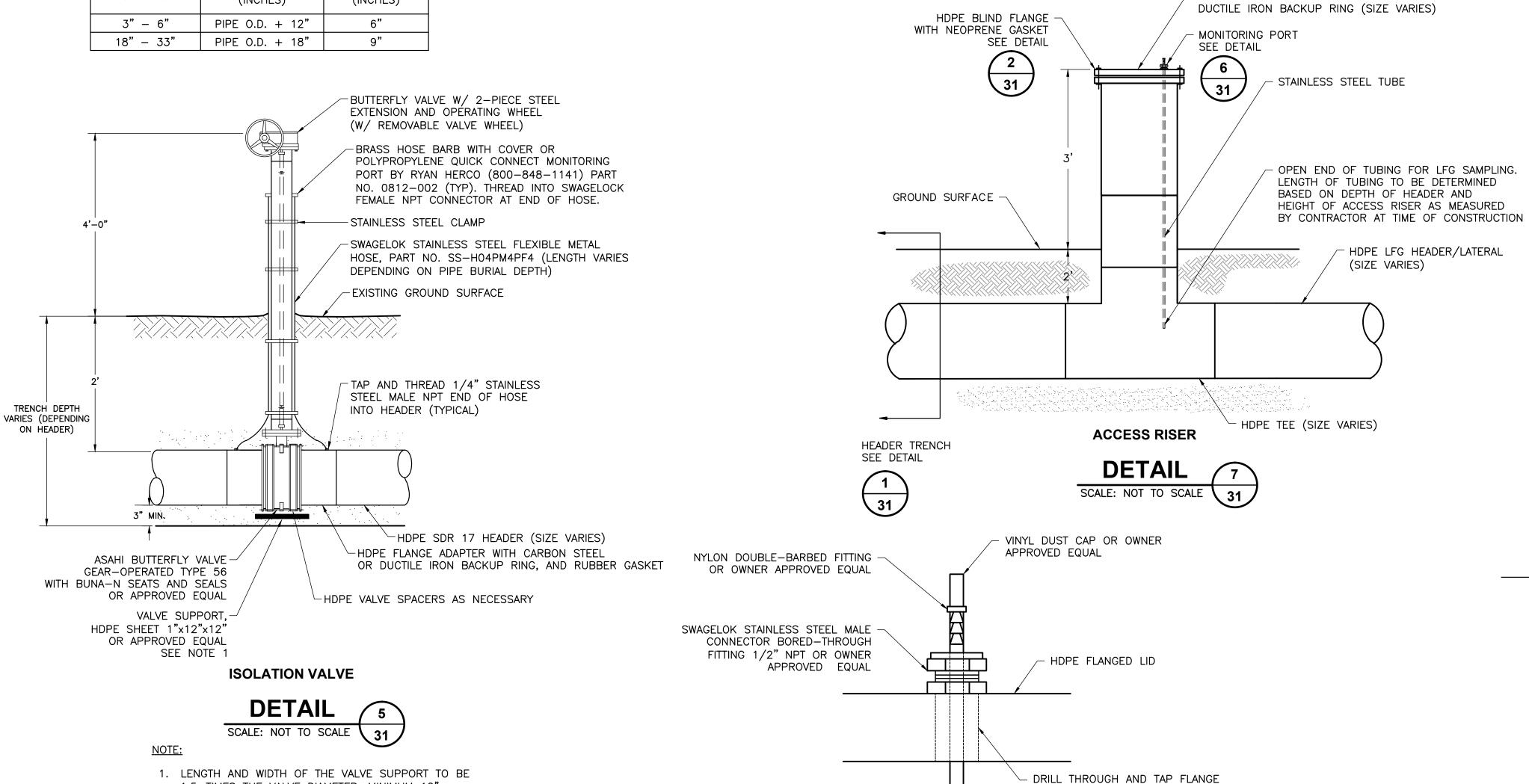
-6' UN-PAINTED

T-POST WITH SPADE

-GROUND SURFACE

—2"ø SCH40 PVC PIPE

(PROVIDED BY WM)



STRAIGHT SS TUBING (1/4" INNER DIA., 3/8" OUTER

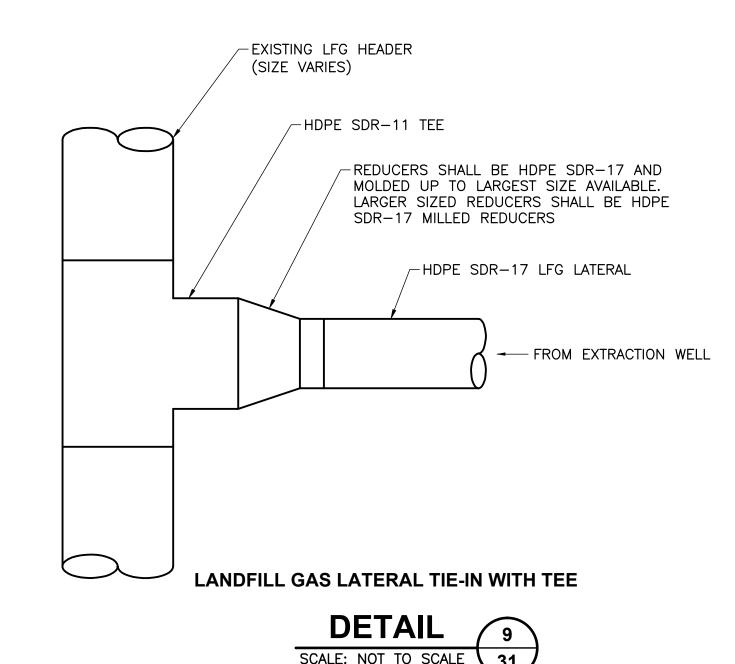
DIA.) FIELD MEASURE TO EXTEND INTO GAS STREAM

PATH. LENGTH OF TUBING SHALL BE APPROVED BY

ENGINEER BASED ON THE INSTALLED DEPTH OF HEADER

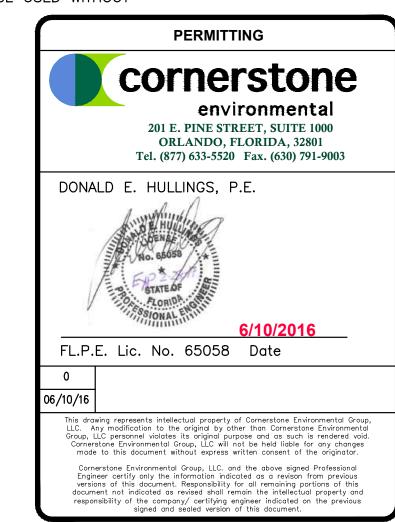
BURIED PIPE INDICATOR

- 1. INSTALL BURIED PIPE INDICATOR EVERY 50' ALONG BURIED PIPE ALIGNMENT, AS WELL AS AT BURIED PIPE INTERSECTIONS AND AT ALL ROAD CROSSINGS, INSTALL ONE SIGN ON EACH SIDE.
- 2. INSTALL OUTSIDE LIMITS OF WASTE ONLY.
- 3. ALTERNATE DESIGN MAY BE USED WITH APPROVAL OF



NOTES:

- 1. HDPE TEES SHALL BE USED TO TIE-IN 6"Ø AND 8"Ø LFG PIPE OR HEADER. TEES SHALL BE MOLDED UP TO LARGEST SIZE AVAILABLE. OTHERWISE TEES SHALL BE FABRICATED AND SUBMITTED TO ENGINEER FOR APPROVAL.
- 2. ELECTRO-FUSION COUPLERS NOT TO BE USED WITHOUT PRE-APPROVAL FROM OWNER.



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SHEET NO.

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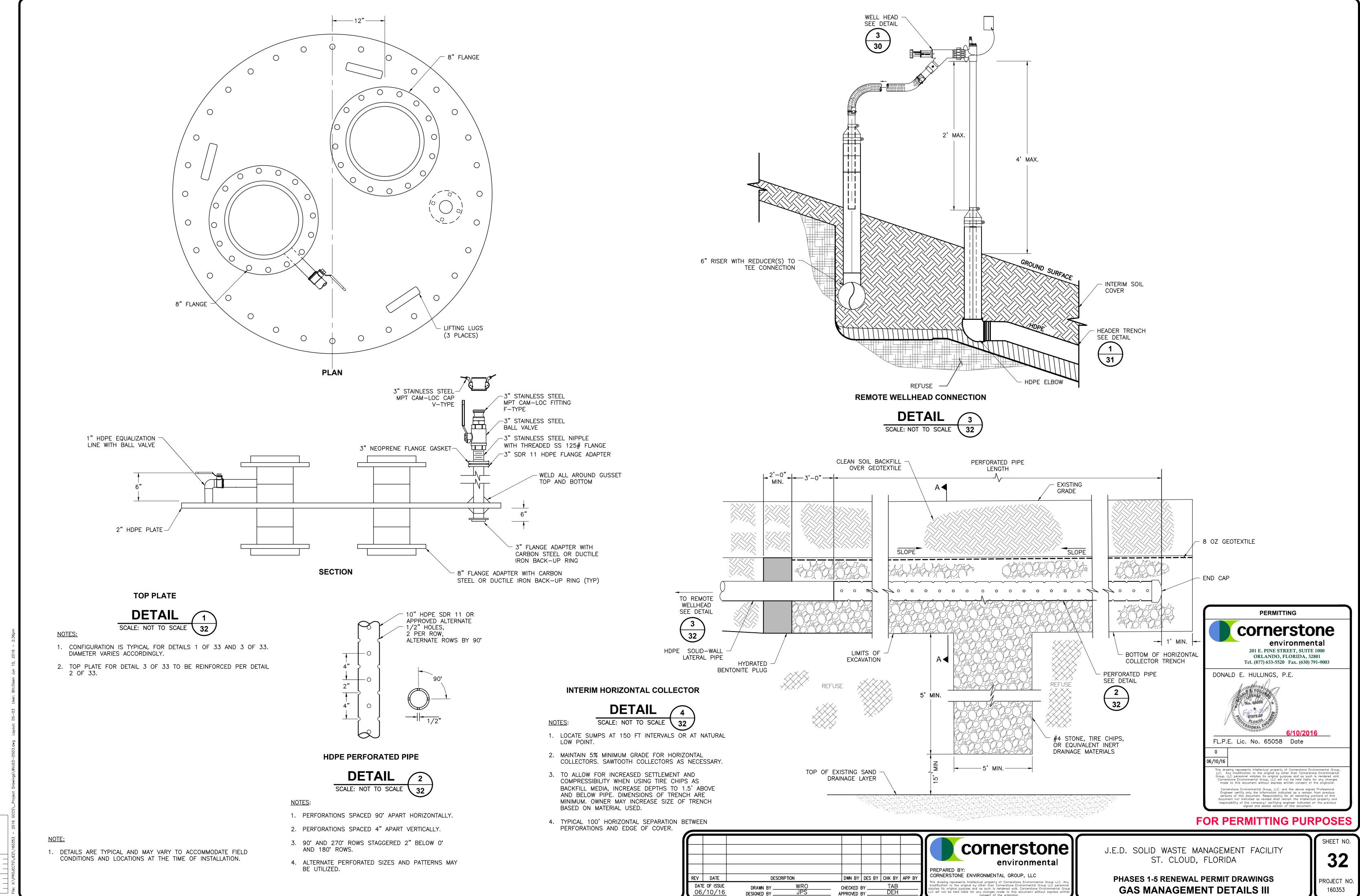
PHASES 1-5 RENEWAL PERMIT DRAWINGS

GAS MANAGEMENT DETAILS II

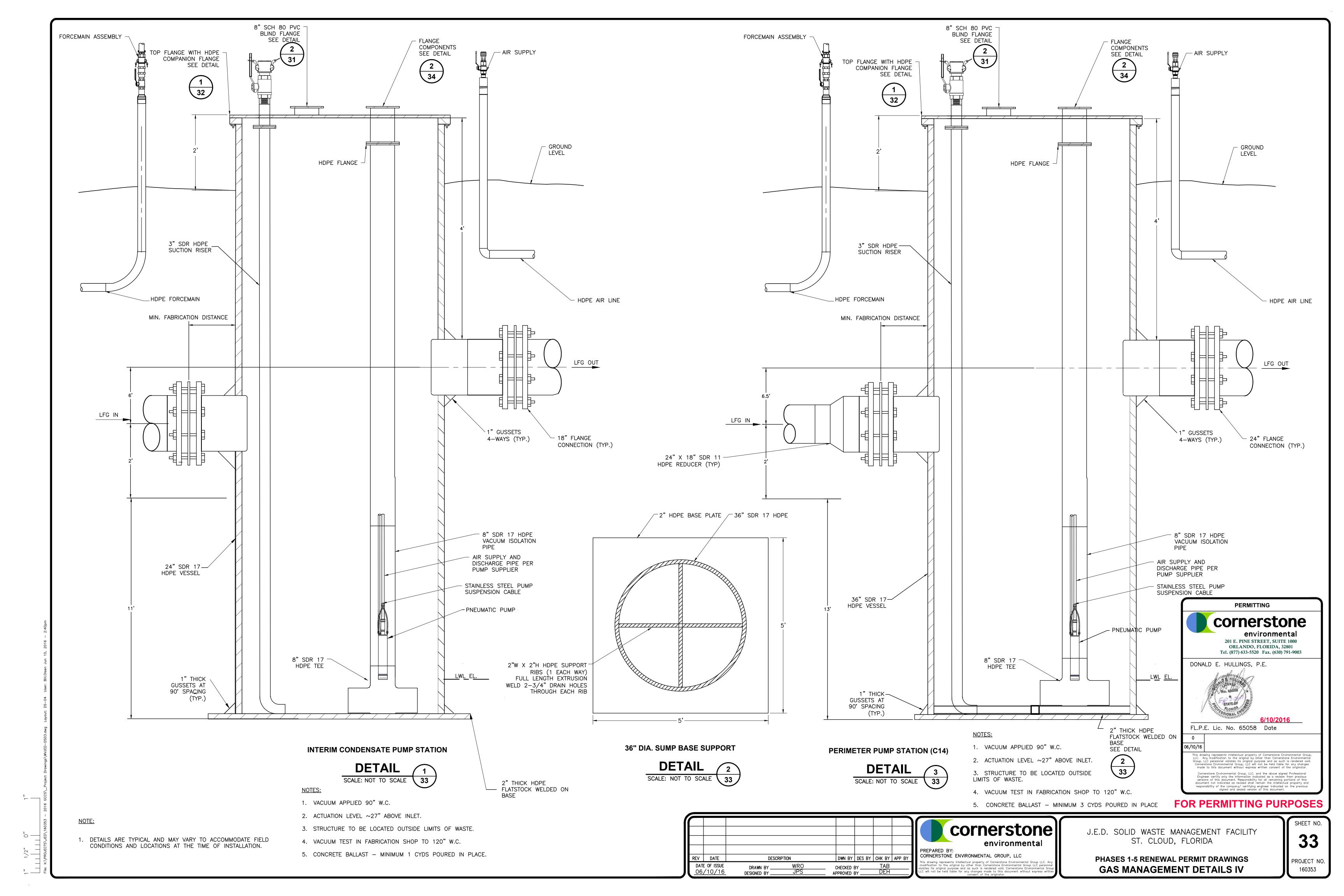
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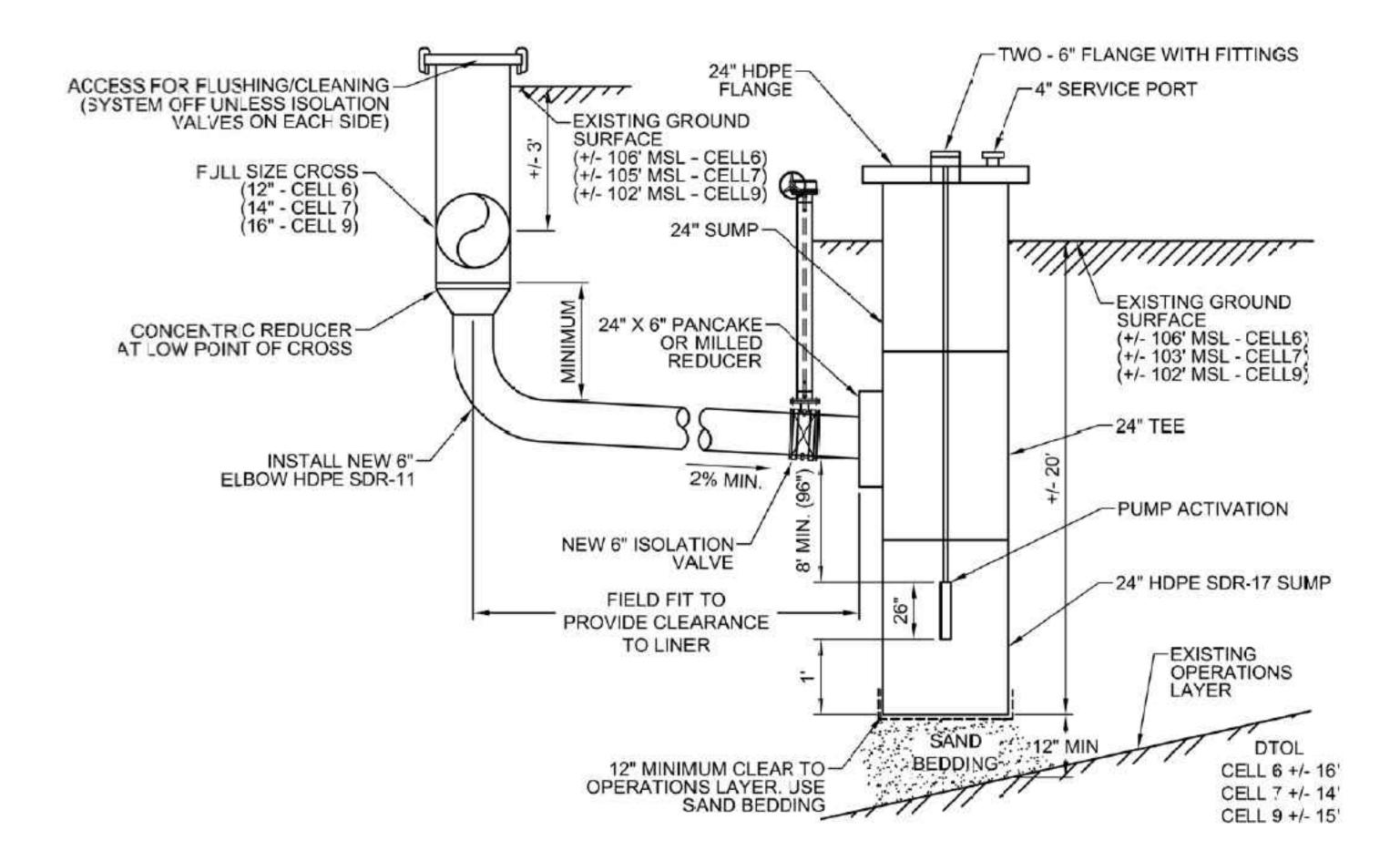
1.5-TIMES THE VALVE DIAMETER, MINIMUM 12".

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1" 1/2" 0"





SUPPLEMENTAL

CONDENSATE SUMP

DETAIL

SCALE: NOT TO SCALE 34

1. DETAIL PROVIDED BY CB&I ENVIRONMENT AND INFRASTRUCTURE.

2. MAY BE USED IN LIEU OF CONDENSATE TRAP/DRIPLEG

3/8" X 3' LONG -GREEN HOSE QED AP-4+ PNEUMATIC PUMP SEE NOTE 1 1/2" PRESTO-LOC — FITTING S.S. PUMP FLANGE ASSEMBLY

PUMP CYCLE -

COUNTER ASSEMBLY

QUICK CONNECT FITTING -

DETAIL 2 SCALE: NOT TO SCALE \ 34

1" S.S. MPT CAM LOC

5/8" NYLON TUBE PASS

1" X 8" POLYPROPYLENE FLANGE WITH GASKET

- 5/16" EYEBOLT, 1" S.S. DISCHARGE

TUBE BARB, AND EQUALIZATION

VALVE NOT SHOWN

THRU CONNECTOR EXHAUST FITTING

FITTING F-TYPE

1/2" NYLON TUBE PASS THRY CONNECTOR AIR FITTING

WELL ACCESS PORT

AIR FILTER REGULATOR — ASSEMBLY

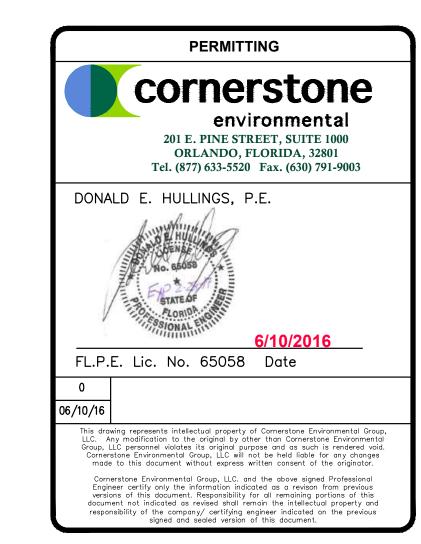
QED EASY BOLT

3/8" X 5' LONG -

BLUE AIR HOSE

QUICK CONNECT FITTING TO AIR LINE 1" NYLON PLUG

- 1. PUMP AND FLANGE ASSEMBLY SHOWN FOR REFERENCE PURPOSES ONLY. PUMP AND FLANGE ASSEMBLY TYPE TO BE DETERMINED BY OWNER AND IS NOT INCLUDED WITH FLANGE PACKAGE.
- 2. PUMP TO BE SET 6-IN OFF THE BOTTOM OF THE SUMP.
- 3. PUMP EXHAUST PORTS TO BE FITTED WITH THROTTLING NEEDLE VALVE.
- 4. PUMP AIR EXHAUST TO BE FITTED WITH EQUALIZATION VALVE.



FOR PERMITTING PURPOSES

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APPROVED BY _

DESIGNED BY ___

cornerstone **environmental** PREPARED BY:

J.E.D. SOLID WASTE MANAGEMENT FACILITY ST. CLOUD, FLORIDA

PHASES 1-5 RENEWAL PERMIT DRAWINGS **GAS MANAGEMENT DETAILS V**

SHEET NO. 34 PROJECT NO. 160353

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