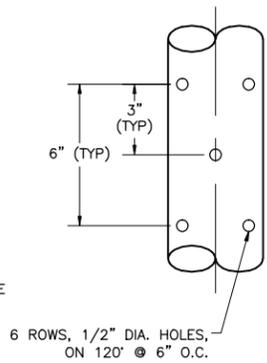
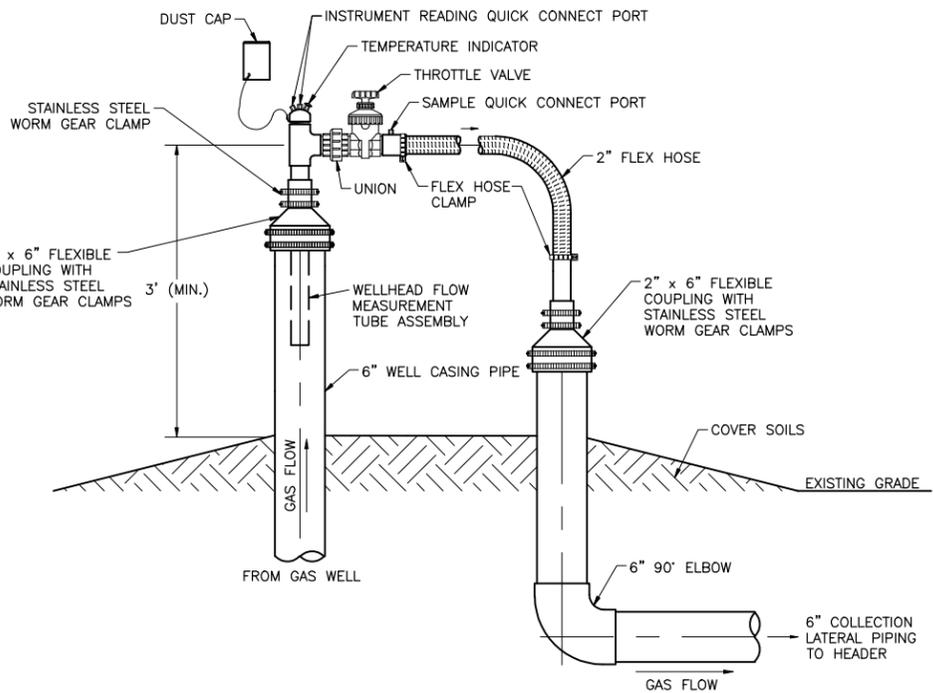


GAS EXTRACTION WELL
DETAIL 1
SCALE: NOT TO SCALE

- NOTES:**
- D_R = DEPTH OF REFUSE
 D_B = DEPTH OF BORING
 D_S = DEPTH OF SOLID PIPE (BELOW GRADE)
 D_P = LENGTH OF PERFORATED PIPE
 - $D_B \sim 75\% D_R$, 140 FEET MAXIMUM.
 - MINIMUM 15 FEET SEPARATION BETWEEN BASE OF BORING AND TOP OF LINER SYSTEM.
 - LIMESTONE, CRUSHED CONCRETE, AND LIKE MATERIALS ARE NOT APPROVED BACKFILL MATERIALS. TIRE CHIPS MAY BE APPROVED BY ENGINEER.
 - OTHER APPLICABLE MATERIALS MAY BE SUBSTITUTED FOR WELL CASING.
 - CASING SIZE AND WELL BORE DIAMETER MAY BE MODIFIED TO ACCOMMODATE FIELD CONDITIONS.

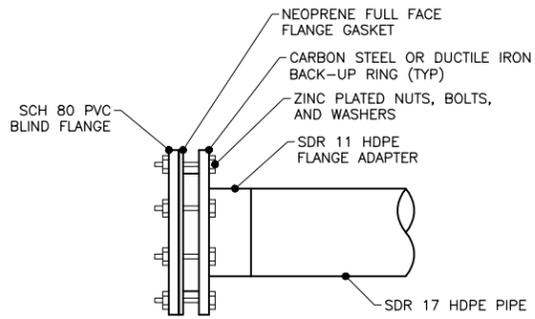


PERFORATED PIPE
DETAIL 2
SCALE: NOT TO SCALE

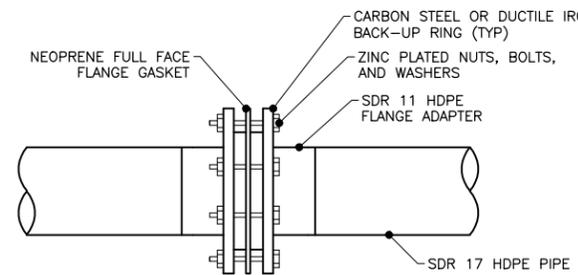


WELLHEAD ASSEMBLY
DETAIL 3
SCALE: NOT TO SCALE

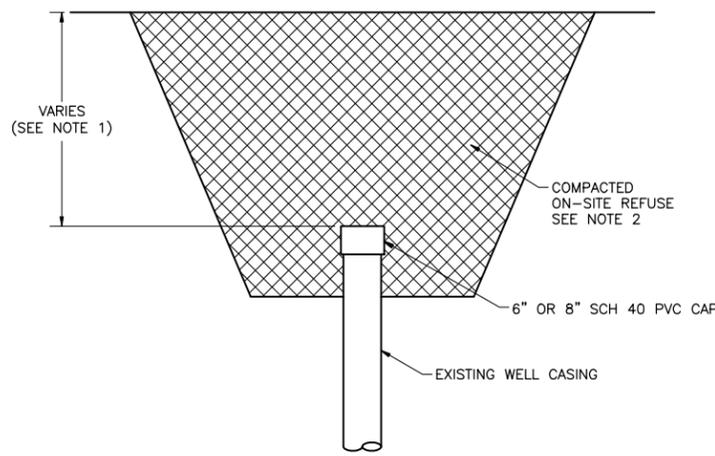
- NOTES:**
- WELLHEAD ASSEMBLY SHOWN REPRESENTS 2" LANDTEC VERTICAL ACCU-FLO MODEL 200 WELLHEAD ASSEMBLY. 3" WELLHEAD MAY BE SUBSTITUTED.
 - WELLHEAD MAY BE SUBSTITUTED WITH AN APPROVED EQUAL PER ENGINEER.



BLIND FLANGE
DETAIL 5
SCALE: NOT TO SCALE



FLANGE CONNECTION
DETAIL 6
SCALE: NOT TO SCALE



EXTRACTION WELL ABANDONMENT
DETAIL 4
SCALE: NOT TO SCALE

- NOTES:**
- WELLS ARE TO BE EXCAVATED TO A DEPTH OF NOT LESS THAN TEN (10) FEET BELOW FINAL CAP GRADE AND 5 FT ON INTERIOR SURFACE. THE CASING SHALL BE CUT AT THIS POINT, AND CAPPED WITH A PVC SLIP CAP.
 - THE REMAINDER OF THE EXCAVATION IS TO BE BACKFILLED WITH REFUSE. THE REFUSE SHALL BE COMPACTED IN PLACE USING AN EXCAVATOR BUCKET OR OTHER SUITABLE CONSTRUCTION EQUIPMENT.
 - FOR WELLS TO BE ABANDONED IN FINAL CAPPED AREAS, WELL CASINGS SHALL BE CUT JUST ABOVE THE WELL PIPE MEMBRANE SEAL, CAPPED, AND THEN BACKFILLED TO MATCH EXISTING FINAL COVER COMPONENTS.

NOT FOR CONSTRUCTION FOR PERMITTING PURPOSES ONLY

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	10/16/07	DRAWN BY KTK DESIGNED BY KTK			CHECKED BY MSM APPROVED BY JGW	

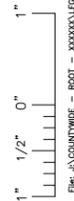


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COUNTYWIDE RDF
EAST SPARTA, OHIO

CELLS 5 & 7 AIR BREAK
DETAILS LANDFILL GAS COLLECTION SYSTEM MODIFICATIONS

FIGURE NO.
9A
PROJECT NO.
070187



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