

NOTES:

D9

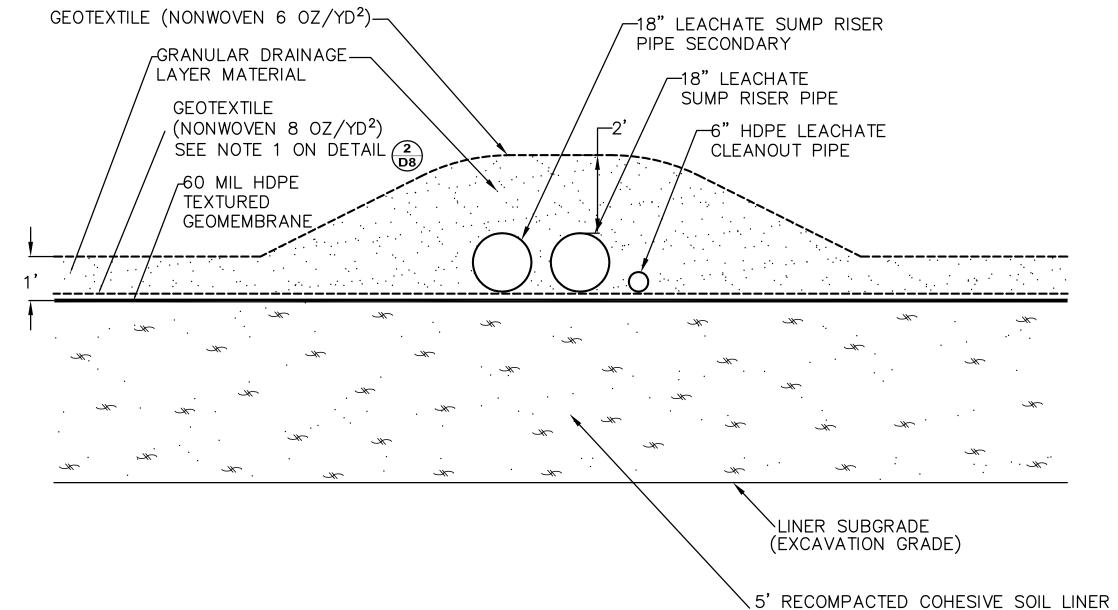
DESCRIPTION

REV. NO. DATE

1. DIMENSIONS AND DIAMETERS ARE TYPICAL, AND MAY VARY DURING CONSTRUCTION.

NOT TO SCALE

- 2. ALTERNATE LEACHATE COLLECTION SUMP STRUCTURES MAY BE PROVIDED IN ACCORDANCE WITH IEPA PERMIT CONDITIONS.
- 3. GRANULAR DRAINAGE LAYER MATERIAL AND COARSE AGGREGATE SHALL MEET FILTER CALCULATION CRITERIA OR BE SEPARATED BY AN INTERMEDIATE AGGREGATE TO MEET FILTER CRITERIA.

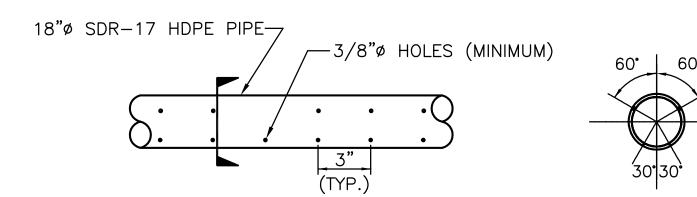


TYPICAL LEACHATE SIDESLOPE RISER CLEANOUT SECTION NOT TO SCALE

 $K \le 1 \times 10^{-7} \text{ CM/SEC (MAX)}$

NOTES:

- 1. THE MINIMUM HYDRAULIC CONDUCTIVITY SPECIFIED FOR THE DRAINAGE MATERIAL LAYER IS k ≥1.0×10⁻³ CM/SEC (MIN.). THIS HYDRAULIC CONDUCTIVITY IS SHOWN TO MEET PERFORMANCE REQUIREMENTS, BASED ON LEACHATE CALCULATIONS WITHIN THE APPLICATION.
- 2. ALTERNATE LEACHATE COLLECTION RISERS MAY BE PROVIDED IN ACCORDANCE WITH IEPA PERMIT CONDITIONS.





TYPICAL PERFORATED SIDESLOPE RISER PIPE DETAIL NOT TO SCALE

S" PERFORATED HDPE
LEACHATE COLLECTION PIPE
SEE DETAIL

COARSE AGGREGATE
NOTE 1 OF DETAIL

LINER SUBGRADE

(EXCAVATION GRADE)

S" PERFORATED HDPE
LEACHATE COLLECTION PIPE
SEE DETAIL

(NONWOVEN 6 OZ/YD²)

12" GRANULAR DRAINAGE LAYER
k > 1.0x10⁻² CM/SEC (MIN.)
(NOTE 1)

60 MIL TEXTURED HDPE GEOMEMBRANE

61 MIN.

5' RECOMPACTED COHESIVE SOIL LINER
K ≤ 1 X 10⁻⁷ CM/SEC (MAX)



NOTES:

- 1. THE MINIMUM HYDRAULIC CONDUCTIVITY SPECIFIED FOR THE DRAINAGE MATERIAL LAYER IS $k \ge 1.0 \times 10^{-3}$ CM/SEC (MIN.). THIS HYDRAULIC CONDUCTIVITY IS SHOWN TO MEET PERFORMANCE REQUIREMENTS, BASED ON LEACHATE CALCULATIONS WITHIN THE APPLICATION.
- 2. GRANUAL DRAINAGE LAYER MATERIAL AND COARSE AGGREGATE SHALL MEET FILTER CALCULATION CRITERIA OR BE SEPARATED BY AN INTERMEDIATE AGGREGATE TO MEET FILTER CRITERIA.

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VEOLIA E.S. ZION LANDFILL-SITE 2 EAST EXPANSION CITY OF ZION, ILLINOIS	PROJ. NO.:	122150	DATE: FEBRUARY 2010
	DESIGNED BY:	RDS	DRAWING NO.
	DRAWN BY:	В₩М	DO
LINER / LEACHATE COLLECTION SYSTEM DETAILS - 2	CHECKED BY:	RDS	D9
	APPROVED BY:	DAM	9 OF 22 SHEETS