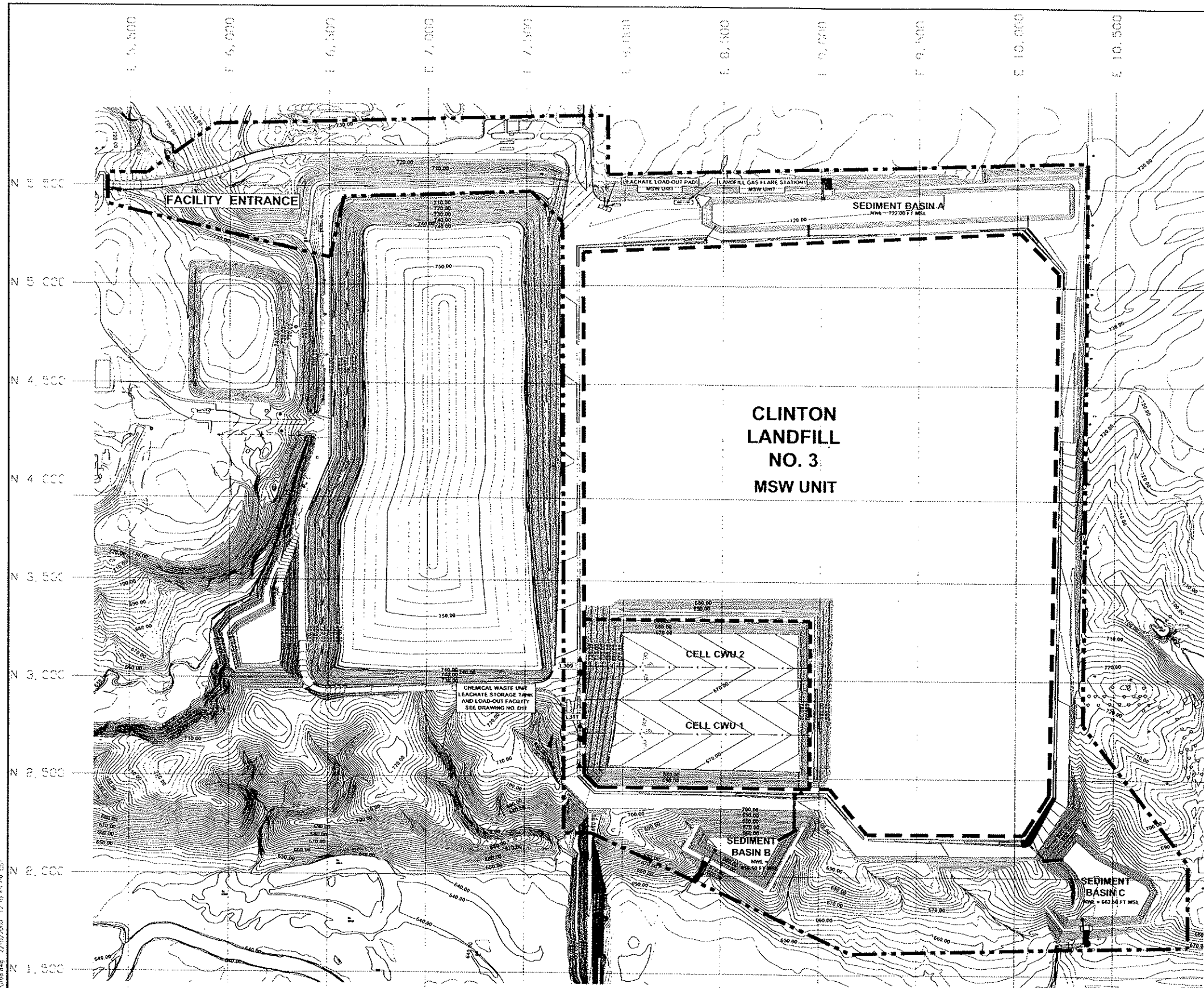


US EPA ARCHIVE DOCUMENT

ATTACHMENT 3



- LEGEND**
- APPROXIMATE CLINTON LANDFILL NO.3 FACILITY BOUNDARY
 - APPROXIMATE EXISTING PERMITTED CLINTON LANDFILL NO.3 WASTE BOUNDARY
 - APPROXIMATE CHEMICAL WASTE UNIT BOUNDARY
 - 690.00 ELEVATION CONTOUR--FEET, MSL (SEE NOTE 6)
 - APPROXIMATE CELL BOUNDARY
 - LEACHATE COLLECTION PIPE
 - ▲ PROPOSED CLEANOUT
 - PROPOSED COLLECTION

- NOTES**
1. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
 2. CURRENT TOPOGRAPHY MAY DIFFER FROM THAT SHOWN.
 3. THE NEED FOR FLEXIBILITY TO ACCOMMODATE ADJUSTMENTS AND MODIFICATIONS IS ANTICIPATED CONSIDERING THE SIZE, COMPLEXITY, AND LIFE OF THE PROJECT.
 4. PERIMETER STORMWATER CONTROL WILL BE CONSTRUCTED AS FILLING PROGRESSES TO PREVENT RUN-ON ONTO THE LANDFILL AND TO PROPERLY CONTROL RUN-OFF FROM DISTURBED AREAS.
 5. SITE DEVELOPMENT IS EXPECTED TO PROCEED ACCORDING TO THE NUMERICAL SEQUENCE OF CELLS SHOWN ON THIS PLAN BUT IS SUBJECT TO CHANGE. THE EXCAVATION OF THE SUBSEQUENT CELLS WILL OCCUR AS THE PREVIOUS CELL IS FILLED. FINAL COVER OR INTERIM COVER WILL BE PLACED WITHIN 60 DAYS OF THE PLACEMENT OF THE FINAL LIFT OF WASTE.
 6. THE PROPOSED CONTOURS WITHIN THE CLINTON LANDFILL NO. 3 WASTE BOUNDARY ON THIS DRAWING REPRESENT THE APPROXIMATE TOP OF LEACHATE COLLECTION SYSTEM.
 7. PRIOR TO WASTE PLACEMENT WITHIN THE "MSW WEDGE", LEACHATE COLLECTION PIPING WILL BE INSTALLED AND GRADED AS SHOWN ON THIS DRAWING.
 8. LEACHATE FROM CHEMICAL WASTE UNIT MAY BE COMINGLED WITH LEACHATE FROM MUNICIPAL SOLID WASTE UNIT UNTIL TSCA REGULATED MATERIAL IS DISPOSED WITHIN THE CHEMICAL WASTE UNIT.

REV. NO.	DATE	DESCRIPTION
2	JAN. 2009	CHANGED LEACHATE COLLECTION PIPE SLOPE TO 1%
1	AUG. 2008	ADDITION OF LEACHATE CLEANOUT



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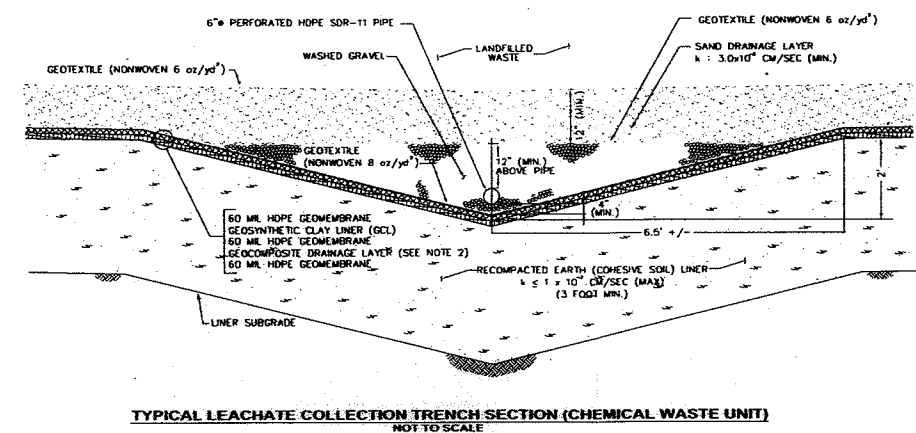
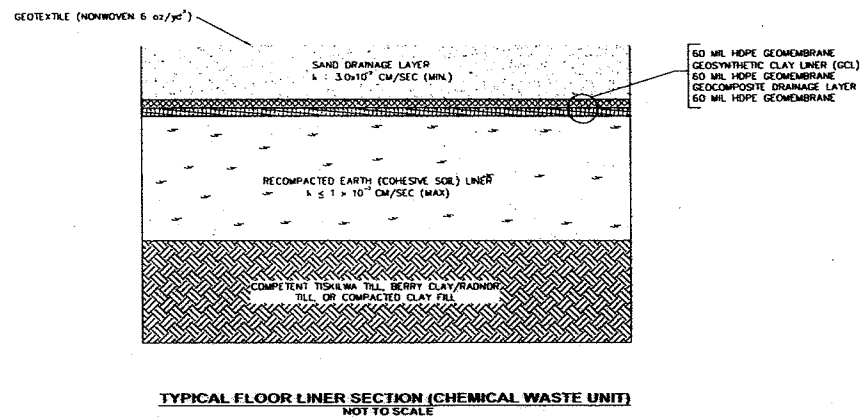
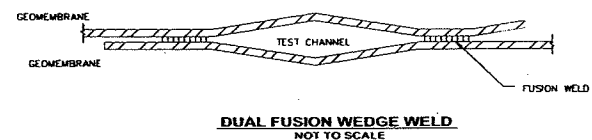
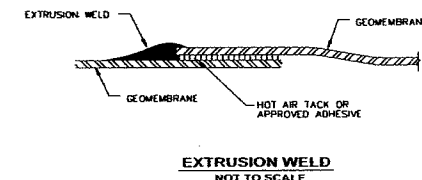
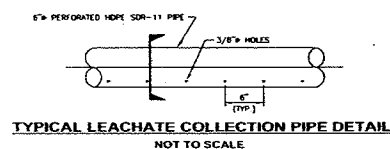
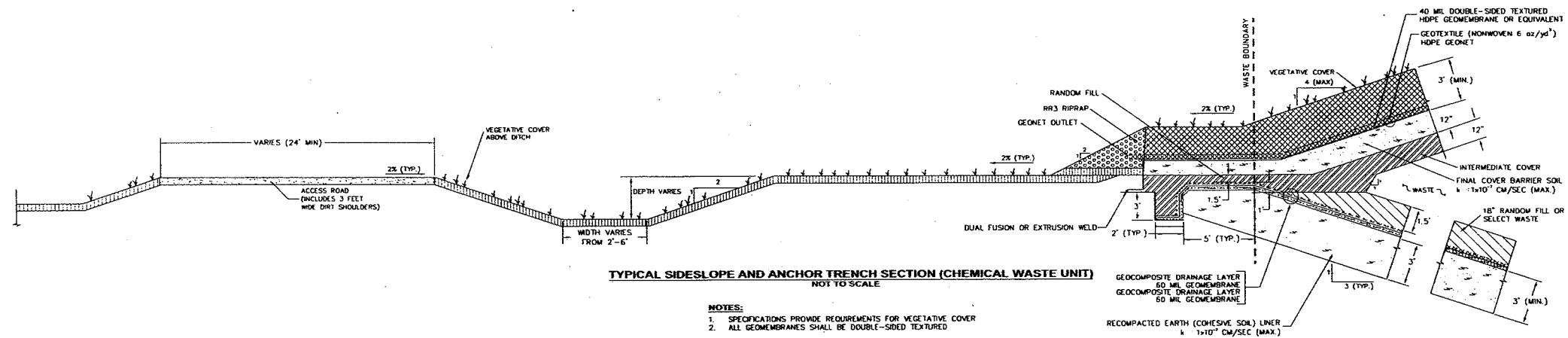


Shaw Shaw Environmental, Inc.

**CLINTON LANDFILL NO. 3 CHEMICAL WASTE UNIT
DEWITT COUNTY, ILLINOIS**

PROPOSED LEACHATE COLLECTION GRADES

PROJ. NO.: 128017	DATE: FEBRUARY 2009
DESIGNED BY: JPV	DRAWING NO.
DRAWN BY: PEL	D6
CHECKED BY: JPV	6 OF 23 SHEETS
APPROVED BY: DAM	



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REV. NO.	DATE	DESCRIPTION



Clinton Landfill, Inc.



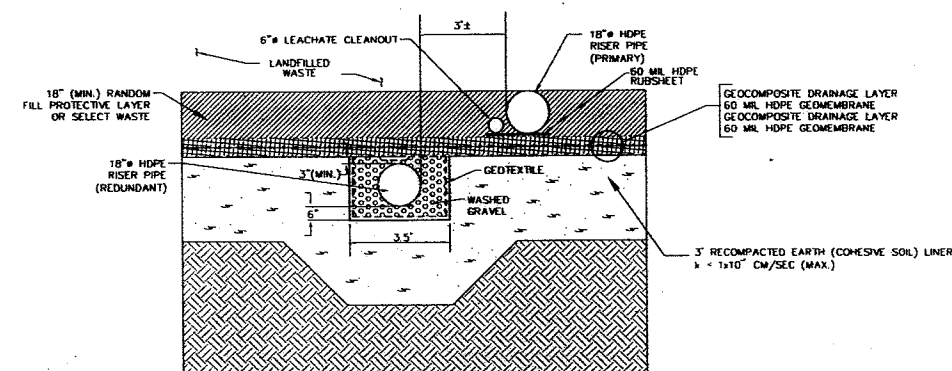
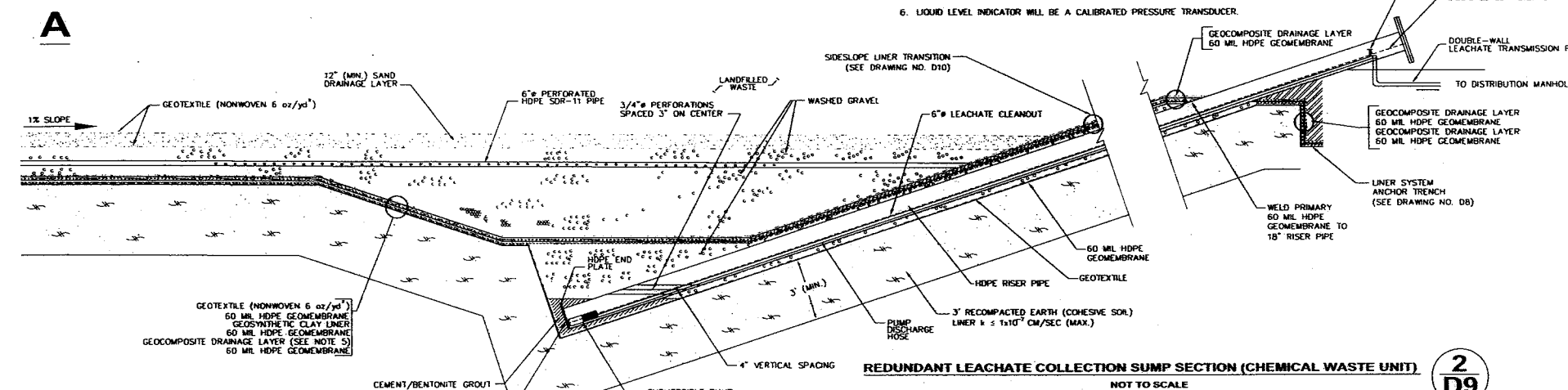
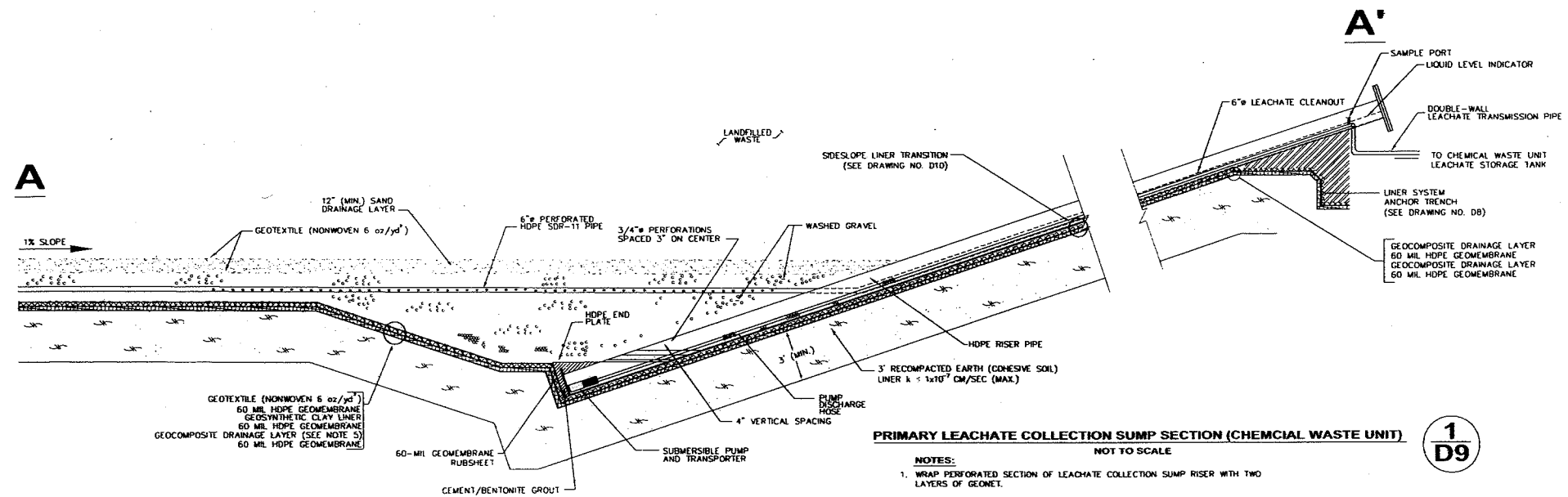
Shaw Environmental, Inc.

CLINTON LANDFILL NO. 3 CHEMICAL WASTE UNIT
DEWITT COUNTY, ILLINOIS

LINER AND LEACHATE COLLECTION SYSTEM DETAILS - 1

PROJ. NO.:	128017	DATE:	OCTOBER 2007
DESIGNED BY:	TDS	DRAWING NO.	D7
DRAWN BY:	PEL		
CHECKED BY:	JPV		
APPROVED BY:	DAM		

7 OF 23 SHEETS



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REV. NO.	DATE	DESCRIPTION
2	JAN. 2009	REVISED SLOPE TO LEACHATE COLLECTION PIPE
1	AUG. 2008	ADDITION OF LEACHATE CLEANOUT



Clinton Landfill, Inc.



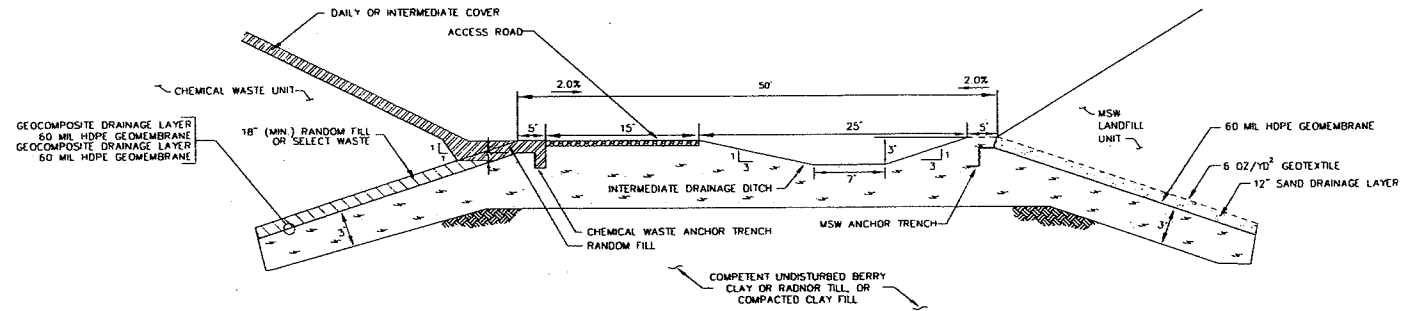
Shaw Environmental, Inc.

CLINTON LANDFILL NO. 3 CHEMICAL WASTE UNIT
DEWITT COUNTY, ILLINOIS

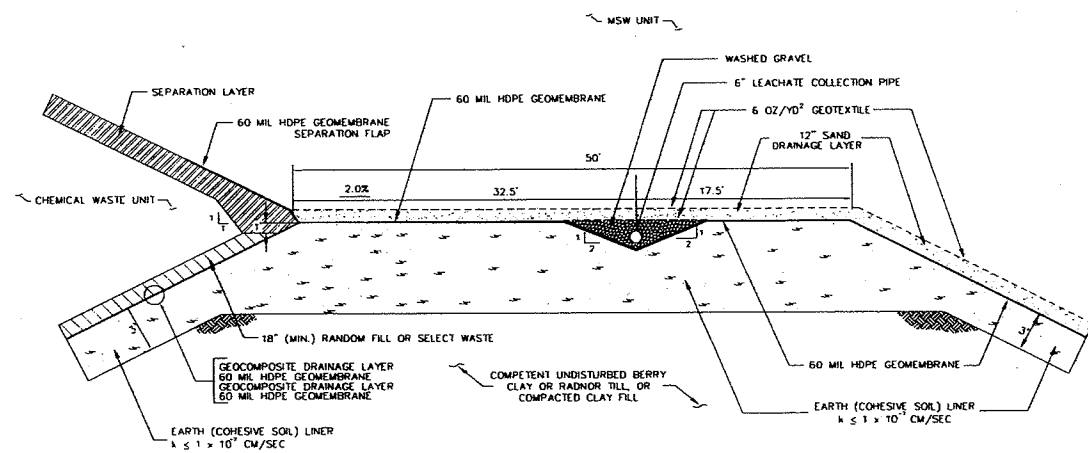
LINER / LEACHATE COLLECTION SYSTEM DETAILS - 2
CHEMICAL WASTE UNIT

PROJ. NO.:	128017	DATE:	FEBRUARY 2009
DESIGNED BY:	JPV	DRAWING NO.:	D8
DRAWN BY:	PEL		
CHECKED BY:	JPV		
APPROVED BY:	DAM		

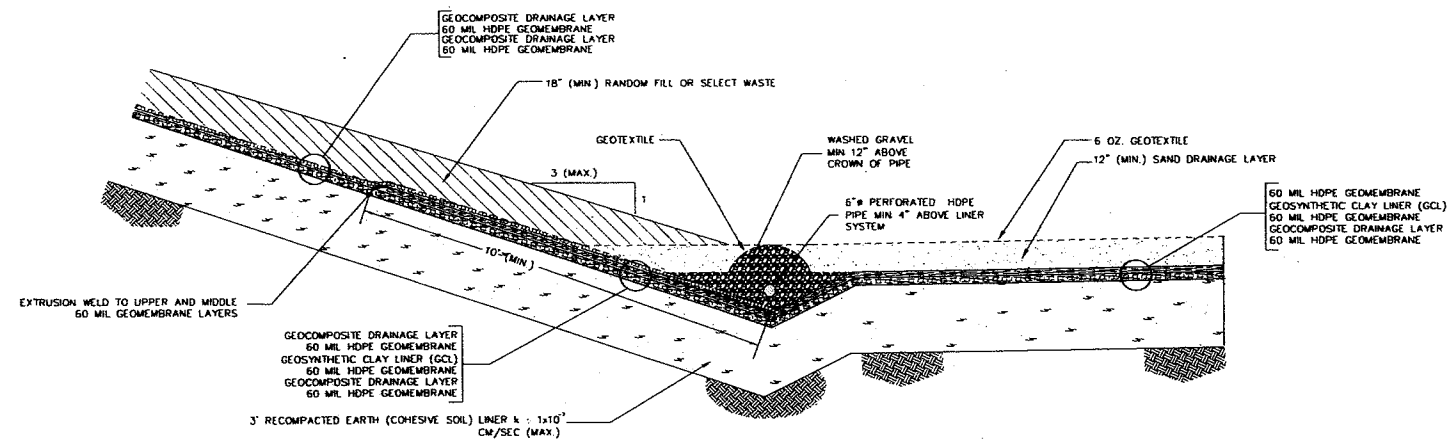
8 OF 23 SHEETS



SEPARATION BERM DETAIL
NOT TO SCALE

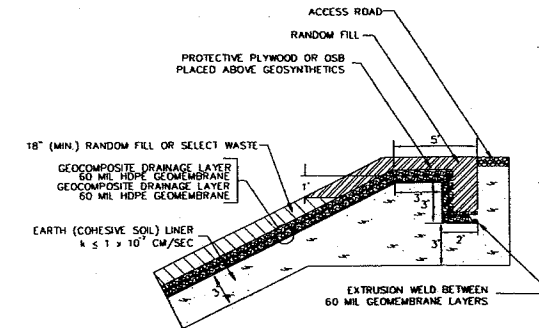


SEPARATION BERM LEACHATE COLLECTION SYSTEM DETAIL
NOT TO SCALE

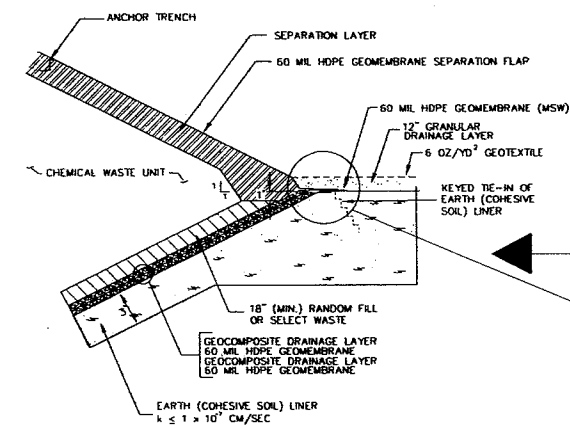


TYPICAL SIDESLOPE LINER TOE AND LEACHATE COLLECTION DETAIL
NOT TO SCALE

- NOTES:**
1. ALL GEOMEMBRANES SHALL BE DOUBLE-SIDED TEXTURED
 2. CONTINUE THE UPPER 60 MIL GEOMEMBRANE AND GCL UP THE SIDESLOPE TO AN ELEVATION AT LEAST ONE FOOT ABOVE THE TOP OF THE ADJACENT SAND DRAINAGE LAYER OR A MINIMUM OF 10 FEET ALONG THE 3H:1V SIDESLOPE (PARALLEL TO SLOPE).
 3. PLACE FIVE LAYERS OF GEONET OR GEOCOMPOSITE ABOVE OF THE BOTTOM GEOMEMBRANE WITHIN THE LEACHATE COLLECTION TRENCH

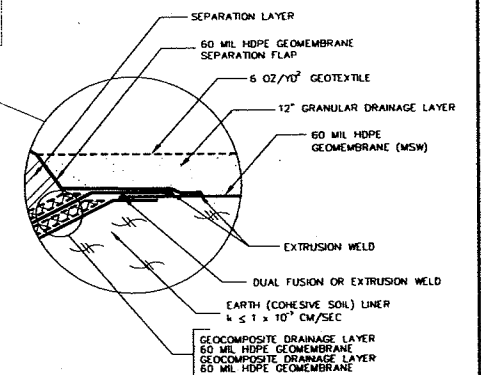


ANCHOR TRENCH SECTION (CHEMICAL WASTE UNIT)
INTERIM CONDITIONS
NOT TO SCALE



ANCHOR TRENCH SECTION (CHEMICAL WASTE UNIT)
FINAL CONDITIONS
NOT TO SCALE

- NOTE:**
1. THE 60 MIL HDPE GEOMEMBRANE WILL RUNOUT A MINIMUM OF 10 FEET ALONG THE 3H:1V SIDE SLOPE LENGTH (PARALLEL TO SLOPE)



SEPARATION BERM TIE-IN PROCEDURE AT CHEMICAL WASTE ANCHOR TRENCH AREA:

1. EXHUME THE SEPARATION BERM ANCHOR TRENCH AND LINER SYSTEM INSIDE THE ANCHOR TRENCH.
2. CUT THE CHEMICAL WASTE UNIT LINER SYSTEM AT THE INSIDE EDGE OF THE SEPARATION BERM ANCHOR TRENCH.
3. REMOVE THE FORMER SEPARATION BERM ANCHOR TRENCH AND REPLACE IT WITH COMPACTED EARTH LINER.
4. REMOVE THE PROTECTIVE PLYWOOD / OSB FROM ABOVE THE LINER SYSTEM.
5. PEEL BACK THE UPPER GEOCOMPOSITE DRAINAGE LAYER, PRIMARY HDPE GEOMEMBRANE, AND REDUNDANT GEOCOMPOSITE DRAINAGE LAYER.
6. DOUBLE-WEDGE FUSION WELD (IF PRACTICAL) OR EXTRUSION WELD THE BOTTOM CHEMICAL WASTE UNIT GEOMEMBRANE TO THE MSW UNIT GEOMEMBRANE.
7. OVERLAP THE CHEMICAL WASTE UNIT PRIMARY GEOMEMBRANE OVER THE WELDED SEAM DESCRIBED IN NOTE 6 AND EXTRUSION WELD TO THE MSW UNIT GEOMEMBRANE.
8. OVERLAP THE SEPARATION FLAP GEOMEMBRANE OVER THE WELDED SEAM DESCRIBED IN NOTE 7 AND EXTRUSION WELD TO THE MSW UNIT GEOMEMBRANE.

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REV. NO.	DATE	DESCRIPTION



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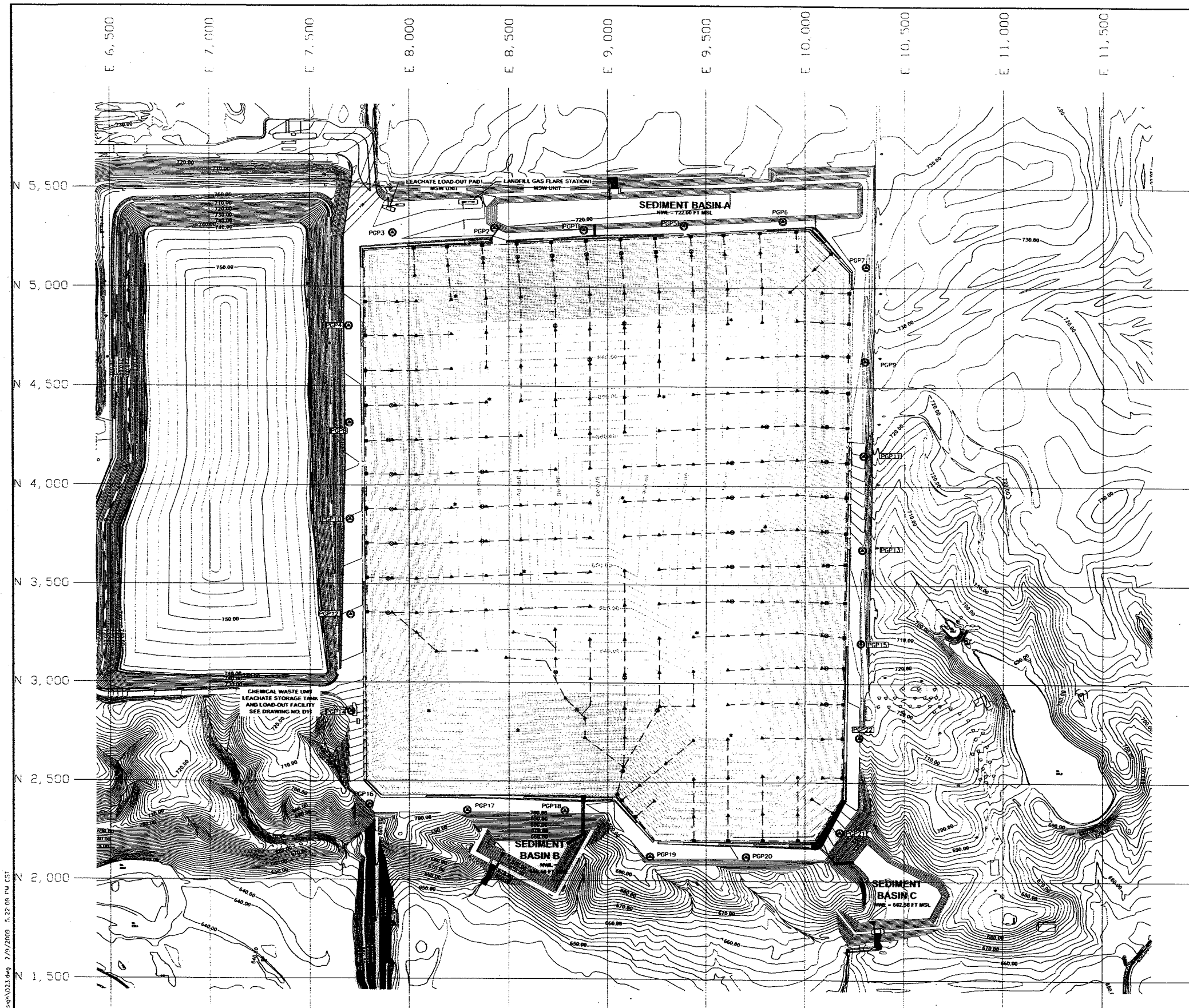


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CLINTON LANDFILL NO. 3 \ CHEMICAL WASTE UNIT
DEWITT COUNTY, ILLINOIS

CHEMICAL WASTE UNIT / MSW SEPARATION BERM

PROJ. NO.:	128017	DATE:	OCTOBER 2007
DESIGNED BY:	TDS	DRAWING NO.	D9
DRAWN BY:	PEL		
CHECKED BY:	JPV		
APPROVED BY:	DAM		
			9 OF 23 SHEETS



GRAPHIC SCALE

200' 0 20

A horizontal scale bar with alternating black and white segments. It is marked with '200'' on the left, '0' in the middle, and '20' on the right.

LEGEND

- APPROXIMATE EXISTING PERMITTED CLINTON LANDFILL NO.3
WASTE BOUNDARY
- APPROXIMATE CLINTON LANDFILL NO.3 FACILITY BOUNDARY
- 690.00
- TOP OF FINAL GRADE CONTOUR
- ▲ PROPOSED LANDFILL GAS EXTRACTION WELL
- ⊙ DRIPLEG
- GAS HEADER VALVE
- ▲* EXTRACTION WELLS ALSO SERVING AS INTERIOR GAS MONITORING WELLS
- * INTERIOR GAS MONITORING WELLS
- PROPOSED LANDFILL GAS HEADER PIPE
- PROPOSED LANDFILL GAS PIPE
- PCPG
- PROPOSED PERIMETER GAS PROBE

NOTES

1. FINAL GRADES DEVELOPED FROM DRAWING NO. P-LFG1, DATED 6/7/06, FROM SIGNIFICANT MODIFICATION PERMIT APPLICATION LOG NO. 2005-070.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN
3. CURRENT TOPOGRAPHY MAY DIFFER FROM THAT SHOWN.
4. THE NEED FOR FLEXIBILITY TO ACCOMMODATE ADJUSTMENTS AND MODIFICATIONS IS ANTICIPATED CONSIDERING THE SIZE, COMPLEXITY, AND LIFE OF THE PROJECT.
5. THE PEAK ELEVATION OF THE LANDFILL IS APPROXIMATELY 871 FEET MSL.
6. STRUCTURES TO REMAIN DURING POST-CLOSURE CARE PERIOD: MAINTENANCE BUILDING, LEACHATE LOAD-OUT PAD, LEACHATE STORAGE TANK, AND FLARE STATION
7. ALL RELATED LFG DETAILS ARE SHOWN ON PDC TECHNICAL SERVICES, INC. DRAWINGS P-LFG1 AND P-LFG2, AS APPROVED BY ILLINOIS EPA PERMIT.

[illegible]

Clinton Landfill, Inc.



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**CLINTON LANDFILL NO. 3 CHEMICAL WASTE UNIT
DEWITT COUNTY, ILLINOIS**

LANDFILL GAS MANAGEMENT SYSTEM

PROJECT NO.:	128017	DATE:	FEBRUARY 2008
DESIGNED BY:	EJD	DRAWING NO.	D23 23 OF 23 SHEETS
DRAWN BY:	TDS		
CHECKED BY:	JPV		
APPROVED BY:	DAM		