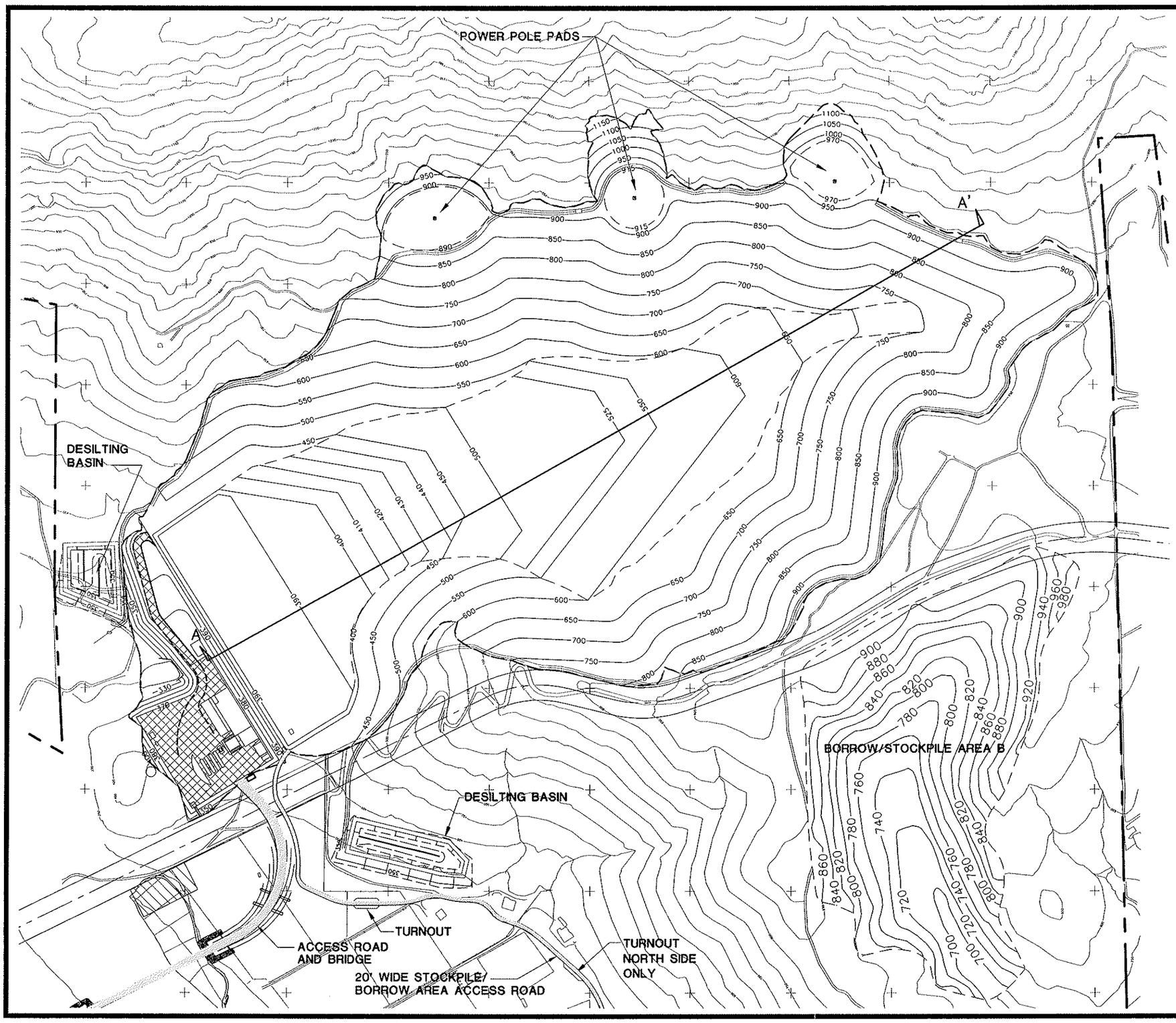
SECTION 3.0

FIGURES



LEGEND

- PROPERTY LINE
- TOP/TOE OF SLOPE
- PROPOSED GROUND CONTOUR
- EXISTING GROUND CONTOUR
- ACCESS/HAUL ROAD
- A — A' SLOPE STABILITY CROSS-SECTION LOCATION

N

GRAPHIC SCALE
250 0 125 250 500
(in feet)
1 inch = 500 ft.

FIGURE 3-1

MASTER EXCAVATION PLAN

GEOLOGY, HYDROGEOLOGY AND GEOTECHNICAL ANALYSES
GREGORY CANYON LANDFILL
SAN DIEGO COUNTY, CALIFORNIA

GeoLogic Associates
Geologists, Hydrogeologists, and Engineers

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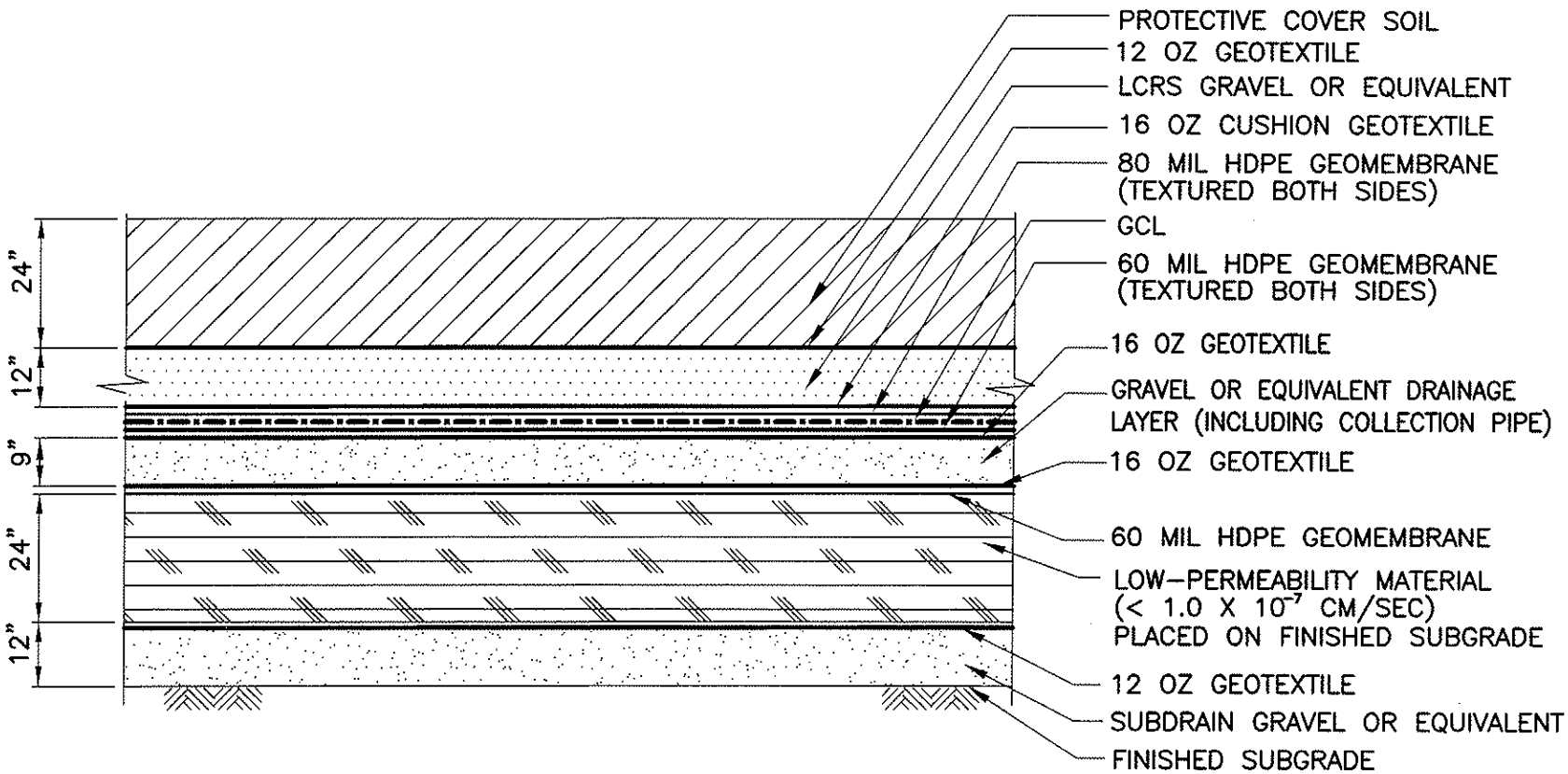

FIGURE 3-2

PROPOSED COMPOSITE LINER SYSTEM DETAIL

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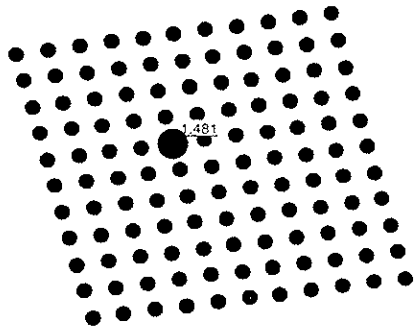
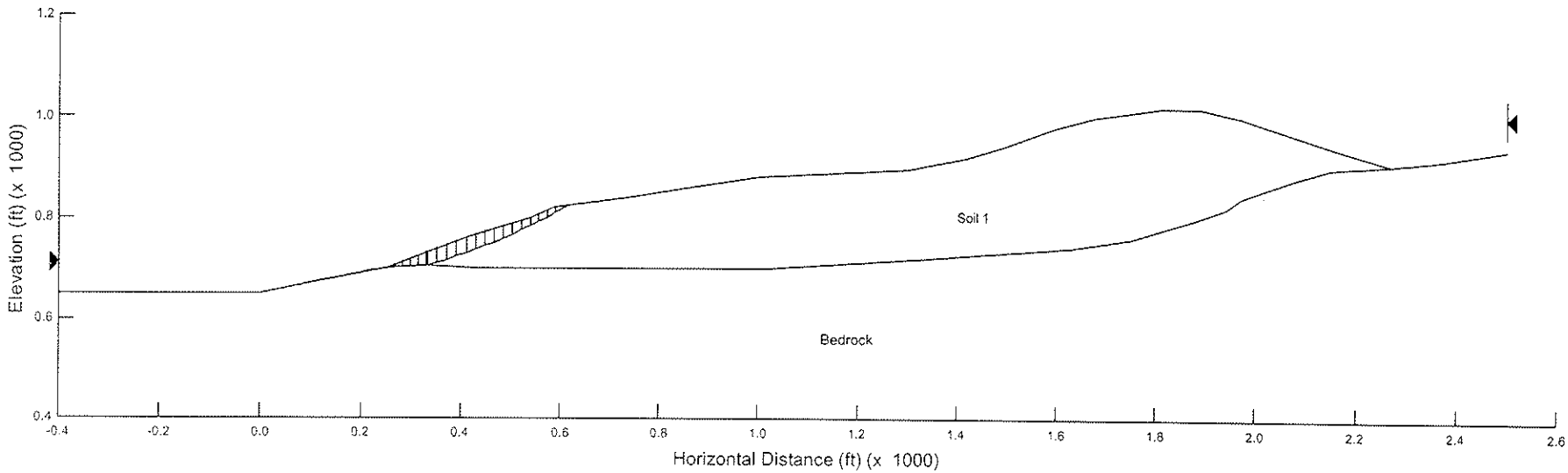


Soil 1
Stockpile
Soil Model Mohr-Coulomb
Unit Weight 120
Cohesion 250
Phi 32
Unsaturated Phi B 0
Piezometric Line # 0
Pore-Air Pressure 0



NOTE: SEE FIGURE 2-7 FOR SECTION LOCATION

FIGURE 3-3A

STOCKPILE SLOPE STABILITY
SECTION 1-1' STATIC ANALYSIS

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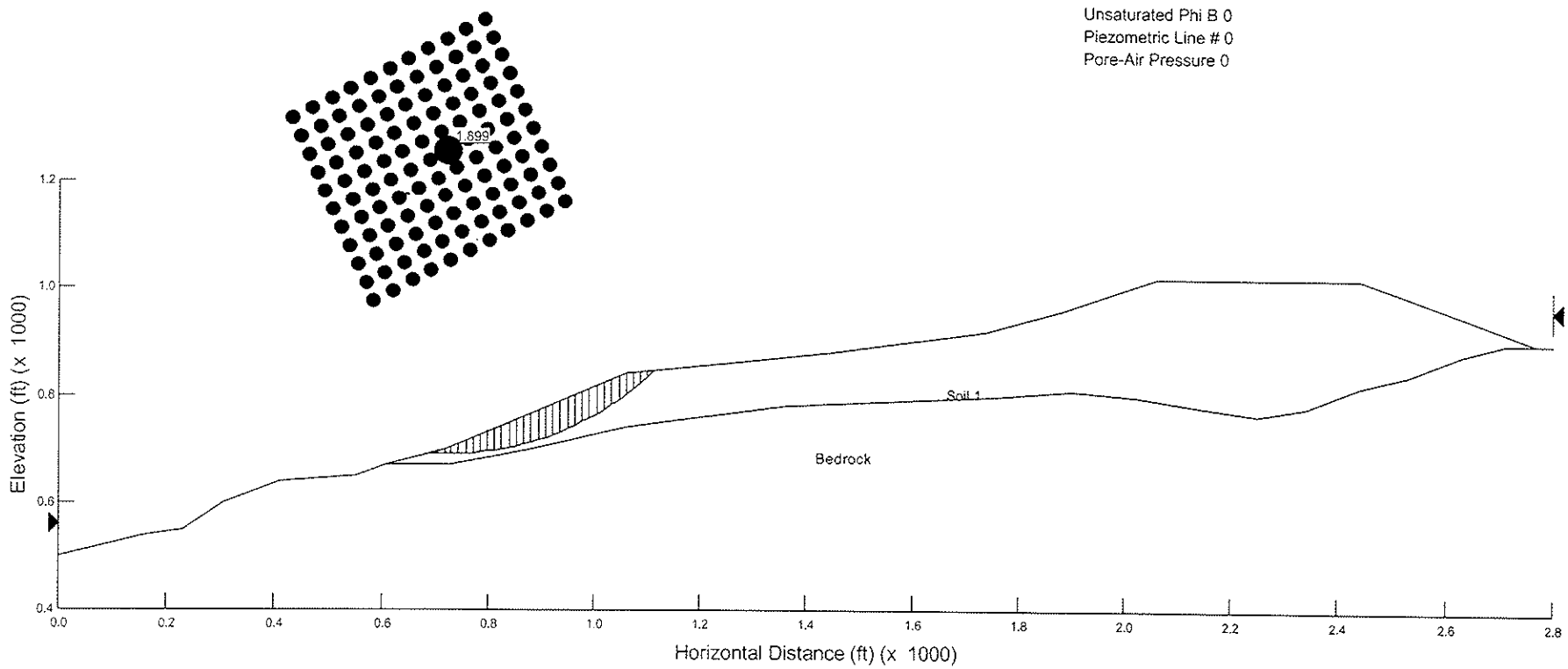

NOTE: SEE FIGURE 2-7 FOR SECTION LOCATION

FIGURE 3-3B

STOCKPILE SLOPE STABILITY
SECTION 2-2' STATIC ANALYSIS

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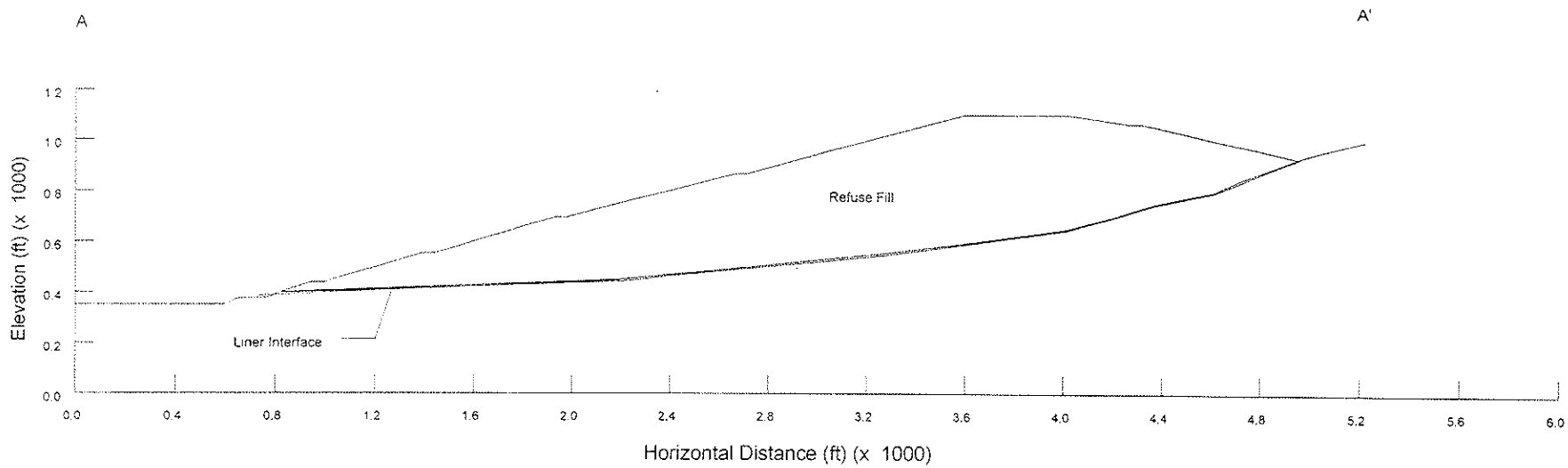

FIGURE 3-4

CROSS-SECTION A-A' FOR SLOPE STABILITY ANALYSIS

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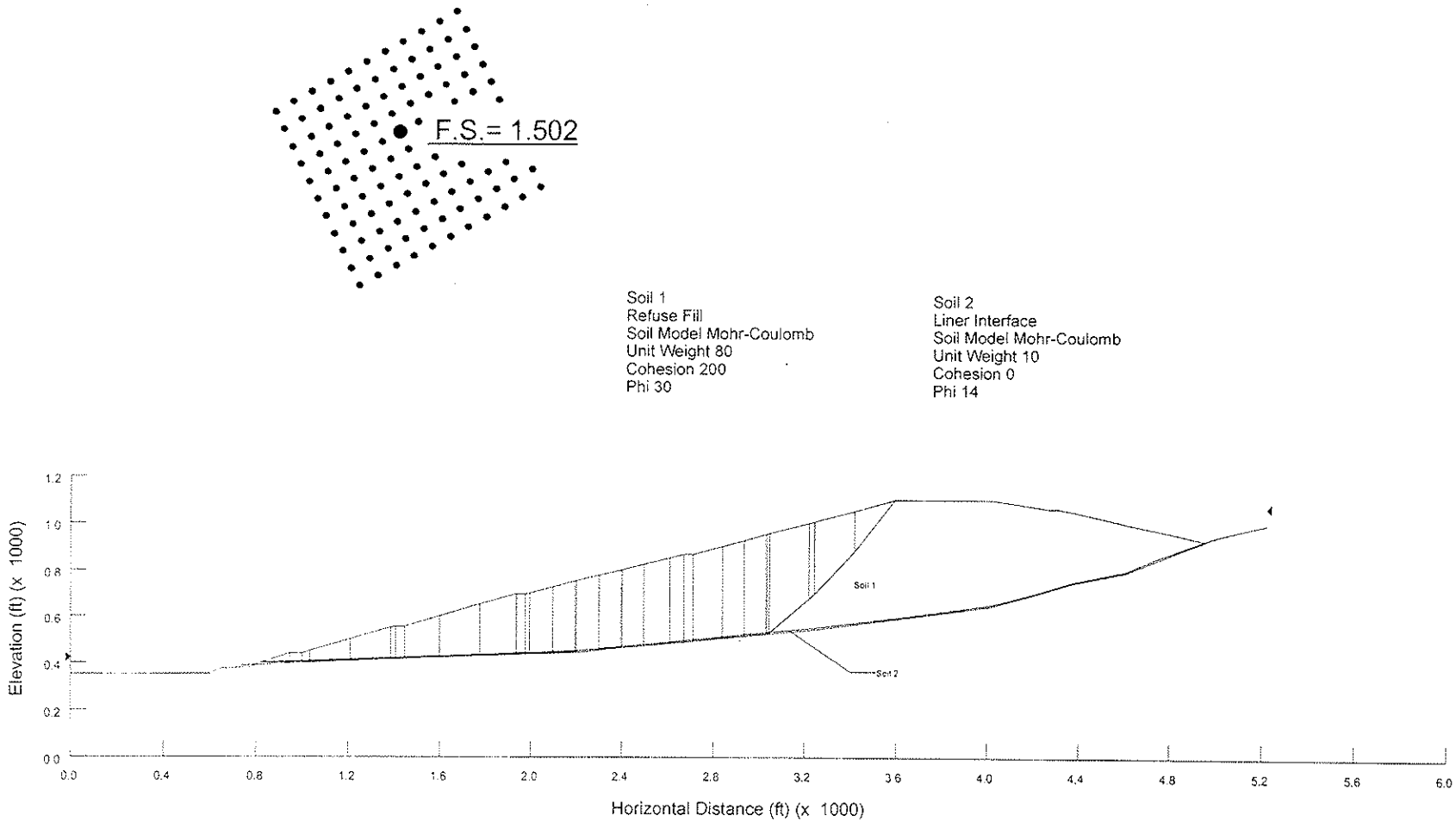

FIGURE 3-5

STATIC ANALYSIS

GEOLOGY, HYDROGEOLOGY AND GEOTECHNICAL ANALYSES
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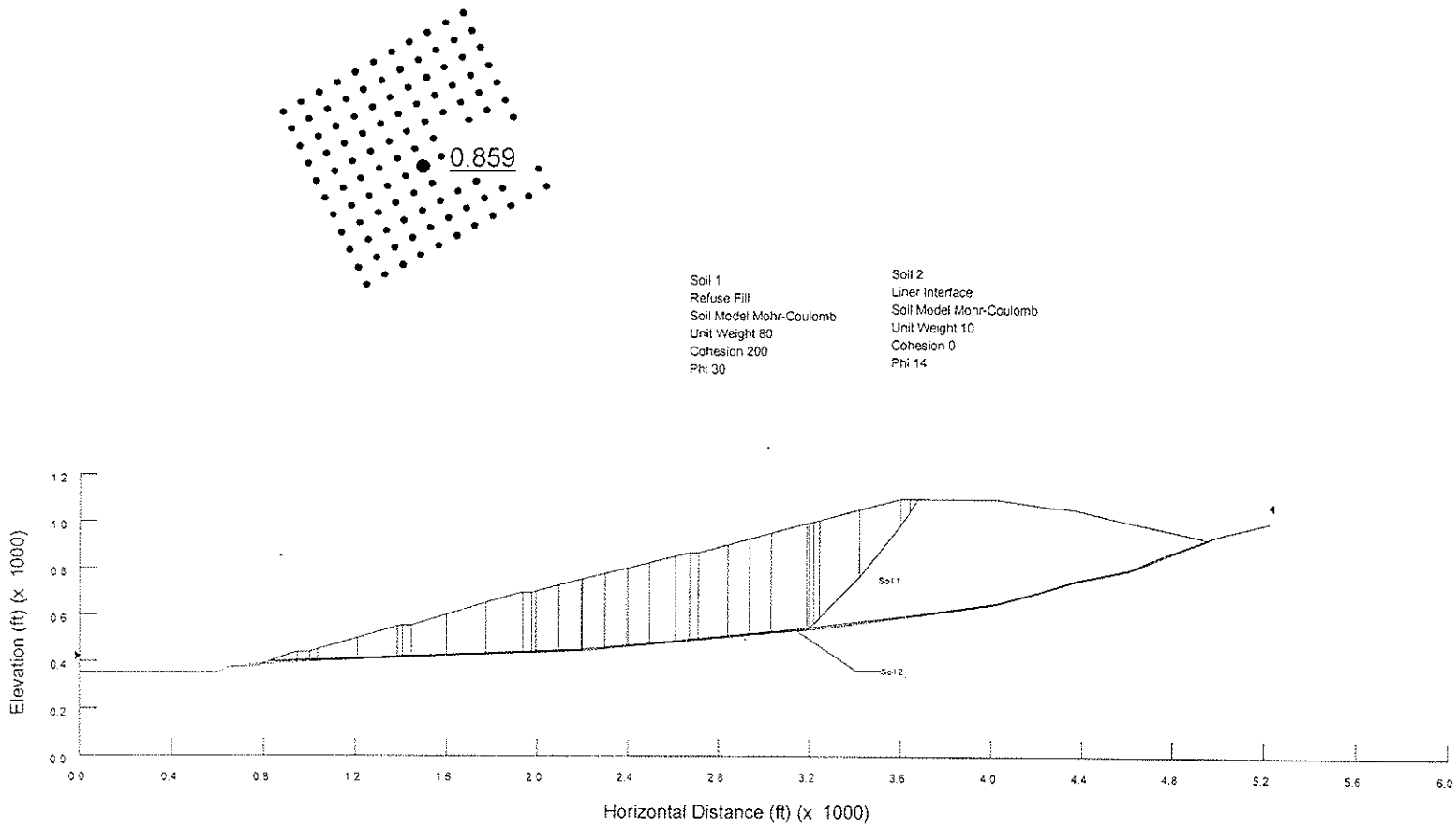

FIGURE 3-6

PSEUDO-STATIC ANALYSIS (USING k=0.15)

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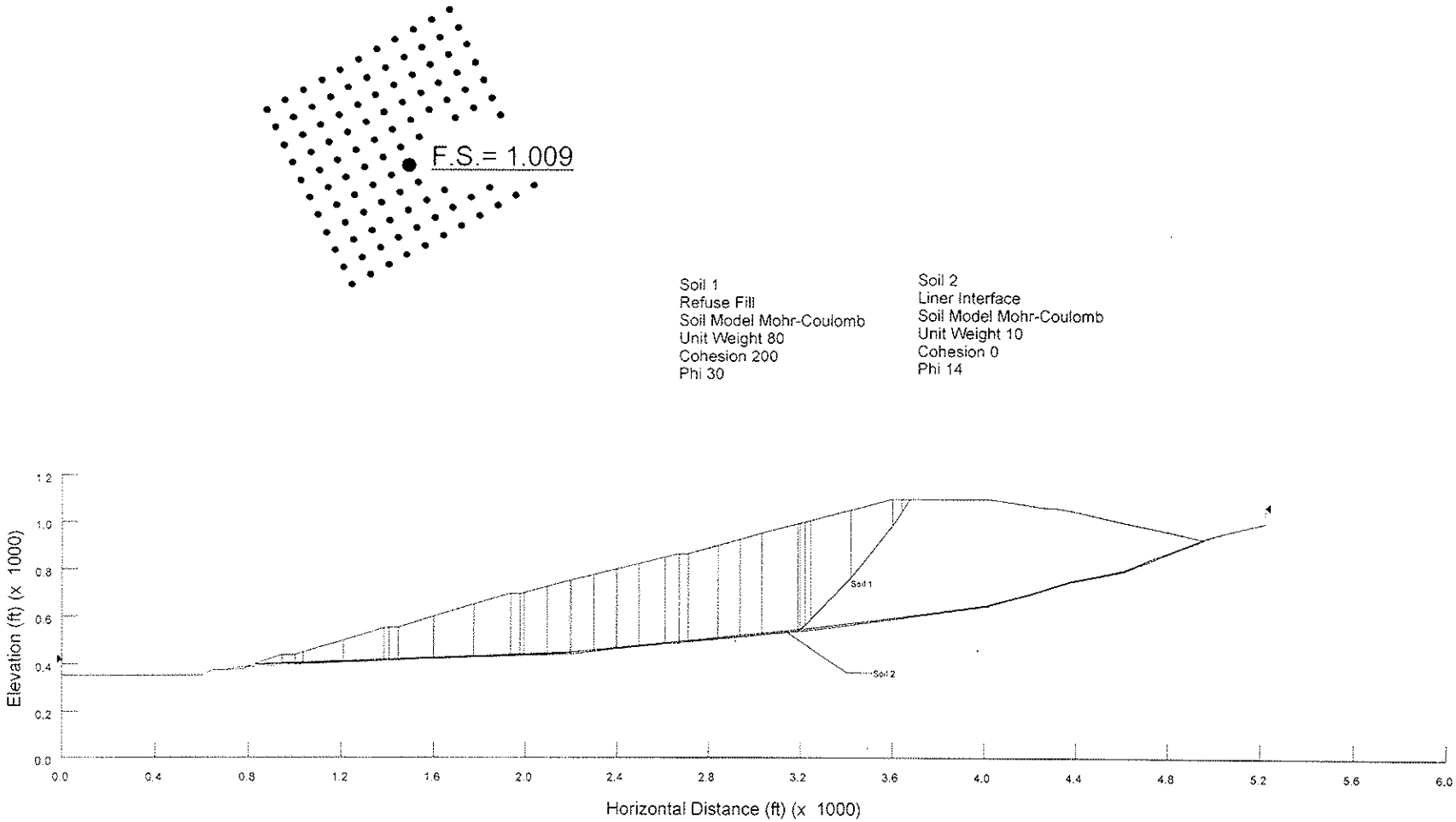

YIELD ACCELERATION, ky = 0.10 g

FIGURE 3-7

PSEUDO-STATIC ANALYSIS FOR YIELD ACCELLERATION

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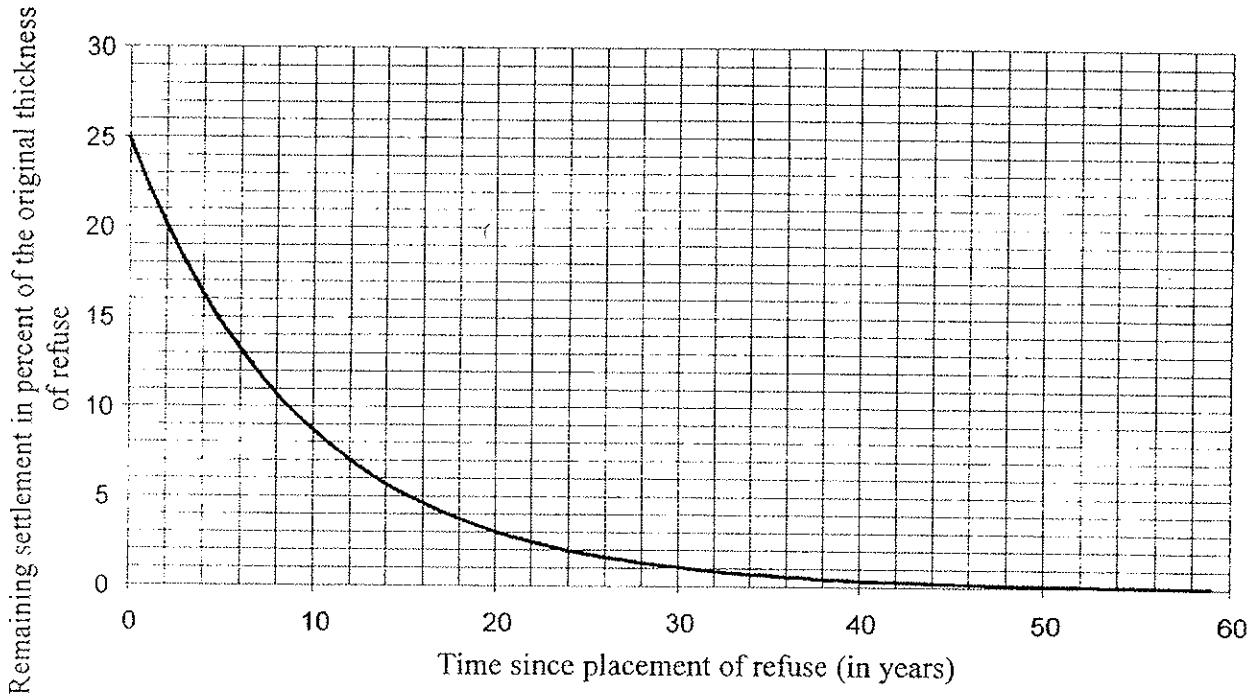

Remaining settlement = $0.25Te^{-0.105t}$

where total expected settlement is 25% of the original thickness, T, of a particular lift of refuse. This equation assumes that settlement decays exponentially with time at a rate of 0.105t, where t is the time in years since the particular lift of refuse was placed.

FIGURE 3-8

SETTLEMENT CURVE

GEOLOGY, HYDROGEOLOGY AND GEOTECHNICAL ANALYSES
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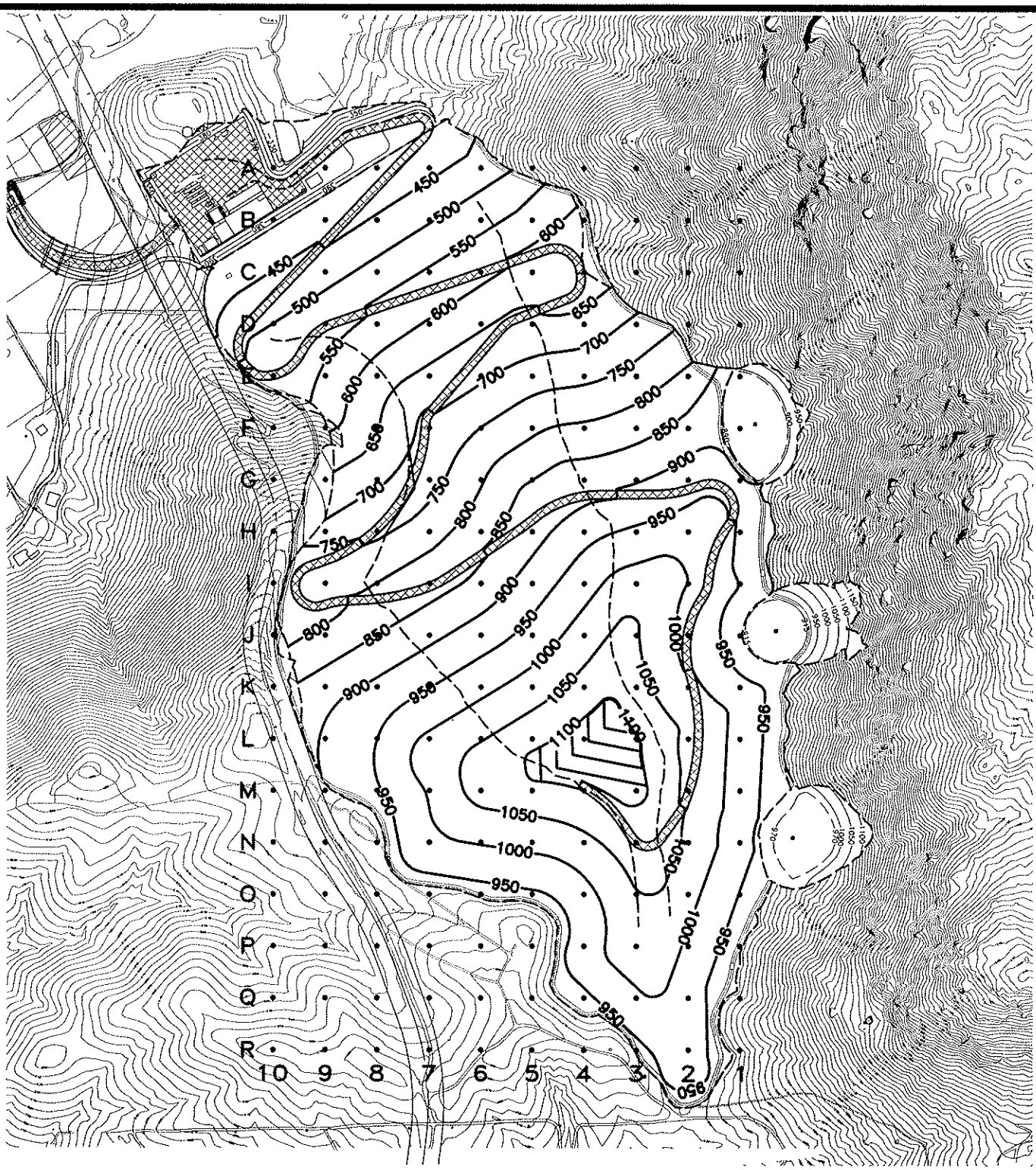

FIGURE 3–9

NODES USED FOR SETTLEMENT ANALYSIS

GEOLOGY, HYDROGEOLOGY AND GEOTECHNICAL ANALYSES
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SAN DIEGO COUNTY, CALIFORNIA

GRAPHIC SCALE
350 0 175 350 700
(in feet)
1 inch = 700 ft.

N

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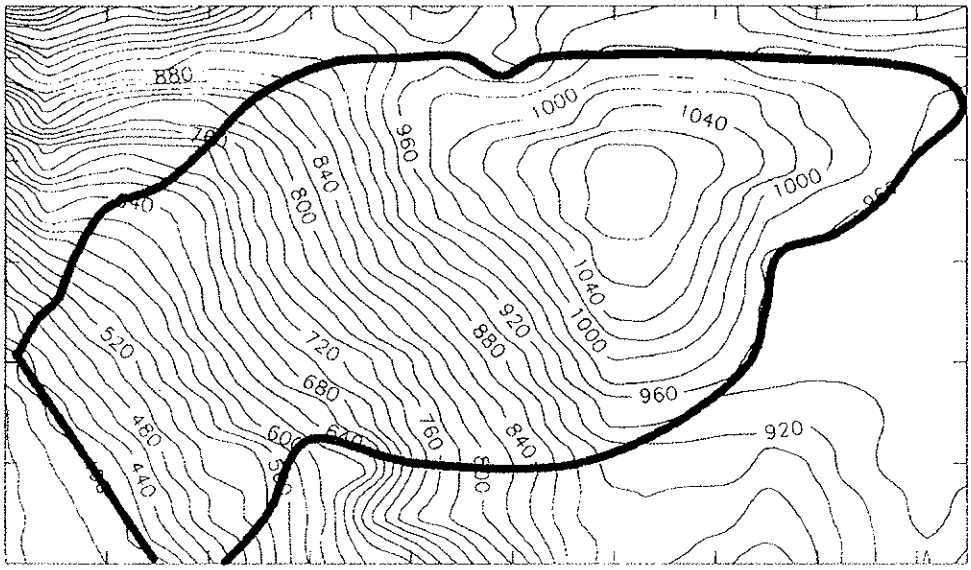

Year 30 - Final closure

2,000 feet

FIGURE 3-10

FINAL CONFIGURATION OF THE LANDFILL AT CLOSURE

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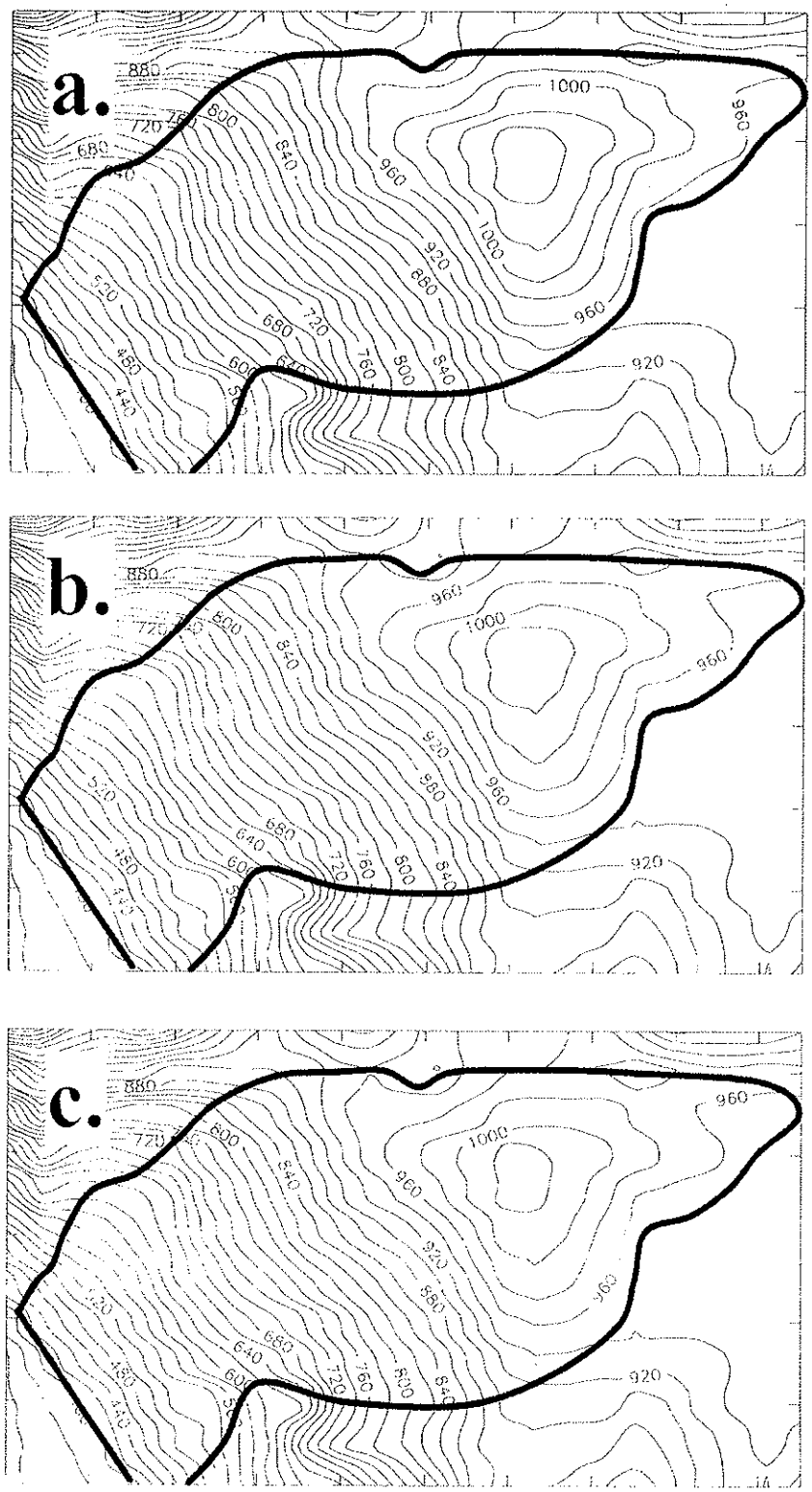

FIGURE 3-11

ESTIMATED CONFIGURATION OF THE LANDFILL DURING THE 30 YEARS FOLLOWING CLOSURE

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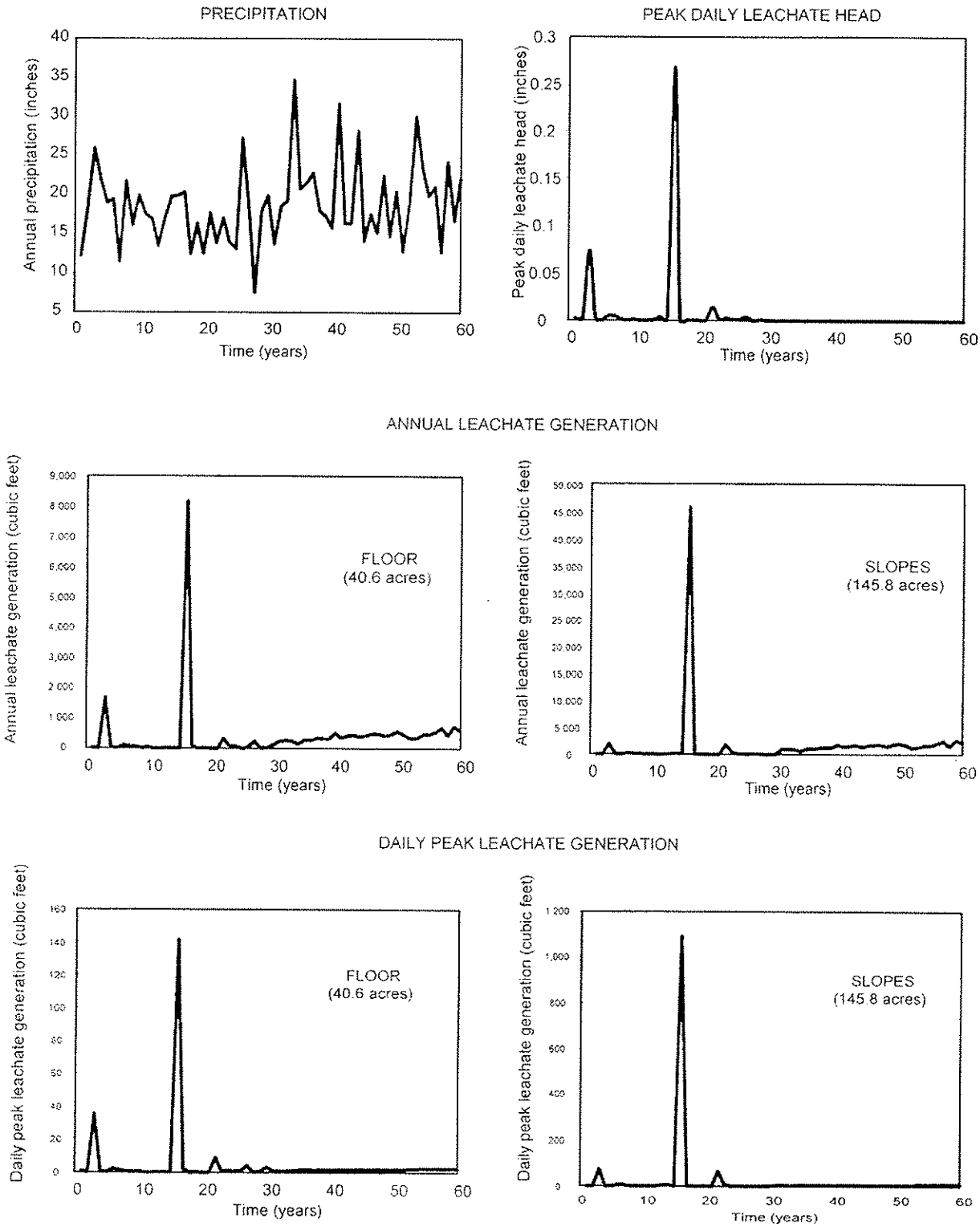

FIGURE 3–12

RESULTS OF LEACHATE GENERATION ANALYSIS

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