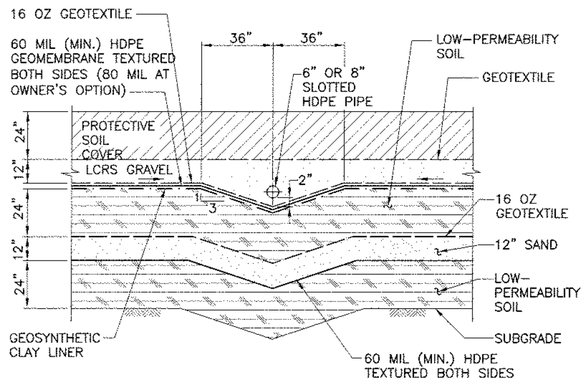
APPENDIX E

DRAWINGS

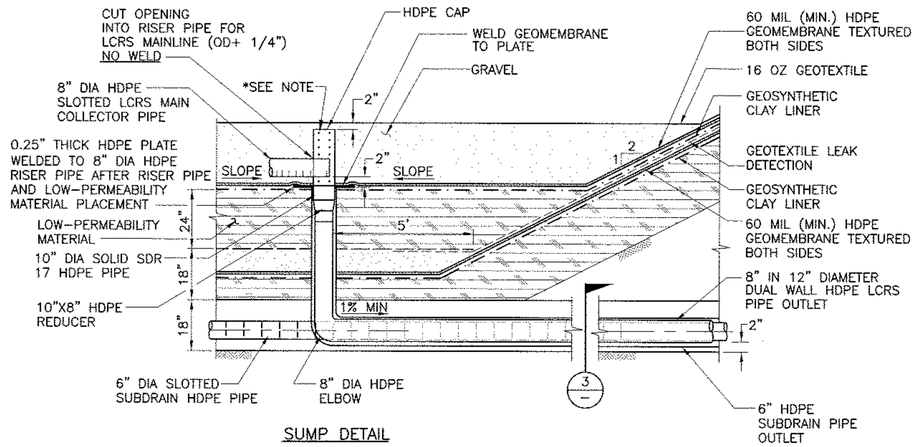
Figure 6	Proposed Phasing Plan
Figure 7	Final Grading Plan
Figure 9	Master Excavation Plan
Figure 13	Full Development Site Plan
Figure 15	LCRS Plan (Existing and Proposed)
Figure 18	Existing and Propose Gas Collection System
Figure 19 & 23	Liner Sections and Typical Gas Well
Figure 24	(Liner) Detail Sheet
Figure 24A	Detail Sheet – Overlap on Unit 1 of City Landfill



LCRS MAIN LINE

NTS

1



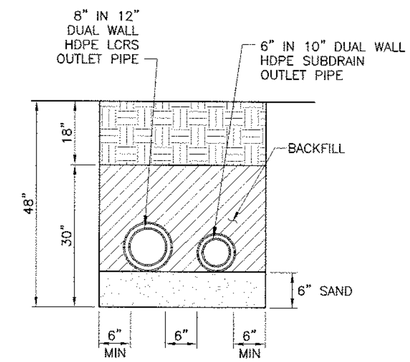
SUMP DETAIL

*NOTE:
0.25" DIA DRILLED HOLES AT 2" OC DRILL HOLES AFTER THE PLATE AND PIPE ARE WELDED

LCRS SUMP

NTS

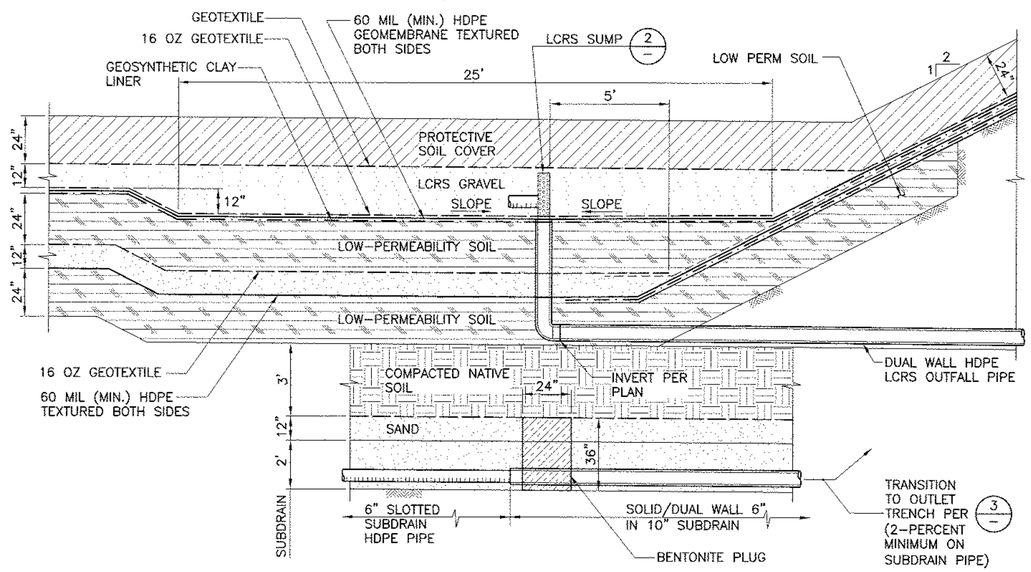
2



LCRS/SUBDRAIN OUTLET TRENCH

NTS

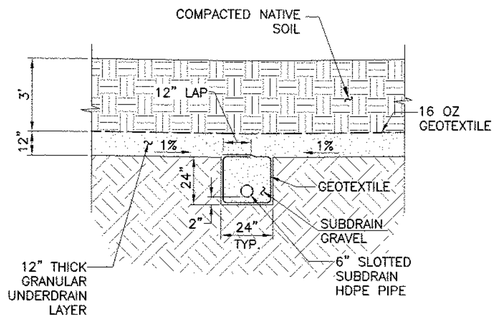
3



LCRS SUMP AND OUTFALL

NTS

4



SUBDRAIN SYSTEM

NTS

5

FIGURE 24

NO.	REVISION DESCRIPTION	BY:

BAS
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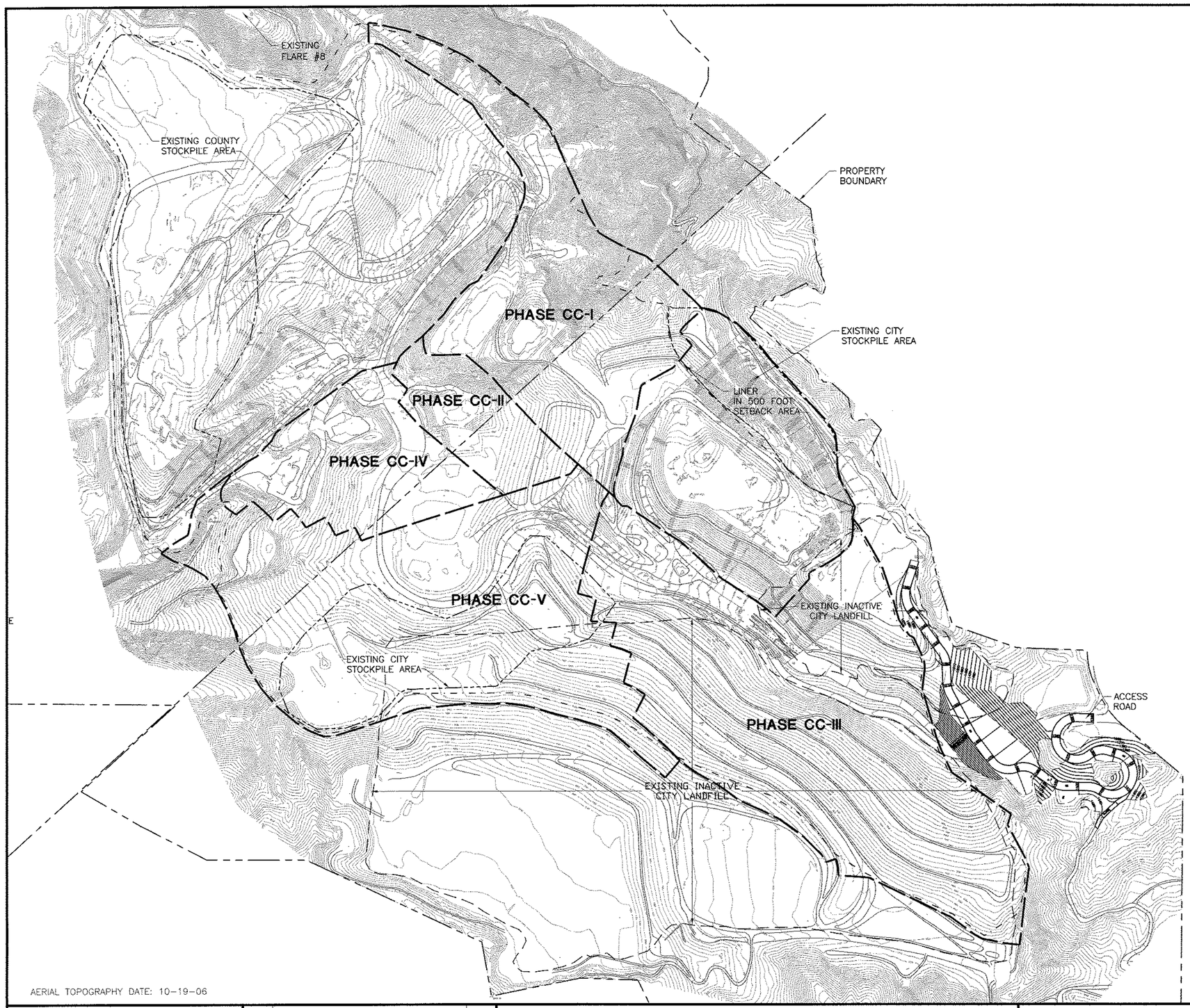
REGISTERED PROFESSIONAL ENGINEER
BRYAN A. STIRRAT
22631
Exp. 12-31-09
CIVIL
STATE OF CALIFORNIA

SUNSHINE CANYON LANDFILL JTD 2007

DETAIL SHEET

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN		
DRAWN BY : D.C.R.	DATE : 2-2008	FILE NO.: 29857DB.DWG	
CHECKED BY : P.W.	DATE : 2-2008		
APPROVED BY :	DATE : 2-2008		

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION



N

GRAPHIC SCALE

300 150 0 300 600

(IN FEET)

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE LIMIT OF REFUSE
- 1550 EXISTING GRADE CONTOUR
- 1500 FINISHED GRADE CONTOUR
- LINER PHASE LIMIT
- PERMITTED LIMIT OF REFUSE (CUP EXHIBIT A-2)
- EXISTING STOCKPILE

NOTE:
EXISTING STOCKPILES SHOWN WILL CONTINUE TO BE USED DURING FUTURE PHASES. ADDITIONAL STOCKPILING OF SUBSEQUENT CELL EXCAVATIONS WILL BE PLACED ON NEW FILL AREAS AS THEY ARE DEVELOPED WITH A HEIGHT NOT TO EXCEED FINAL GRADES.

ACCESS ROAD:
EXCAVATION: 50,000 CY
FILL: 760,000 CY

FIGURE 6 – DWG 2

NO.	REVISION DESCRIPTION	BY:

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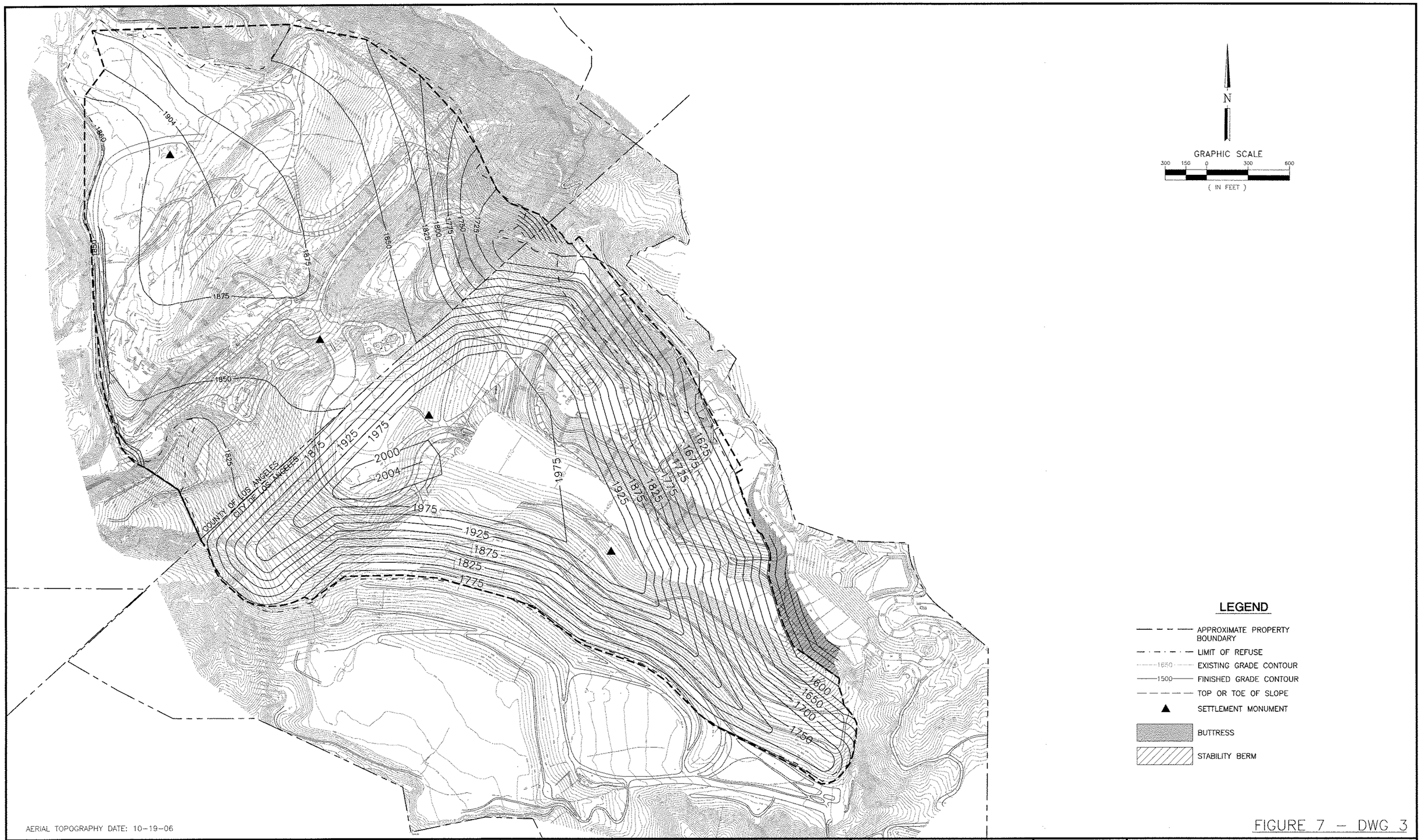
STATE OF CALIFORNIA

SUNSHINE CANYON LANDFILL JTD 2007
PROPOSED PHASING PLAN

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : C.A.L.	DATE : 2-2008	FILE NO.: 1729630B.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION



AERIAL TOPOGRAPHY DATE: 10-19-06

FIGURE 7 – DWG 3

NO.	REVISION DESCRIPTION	BY:

BAS
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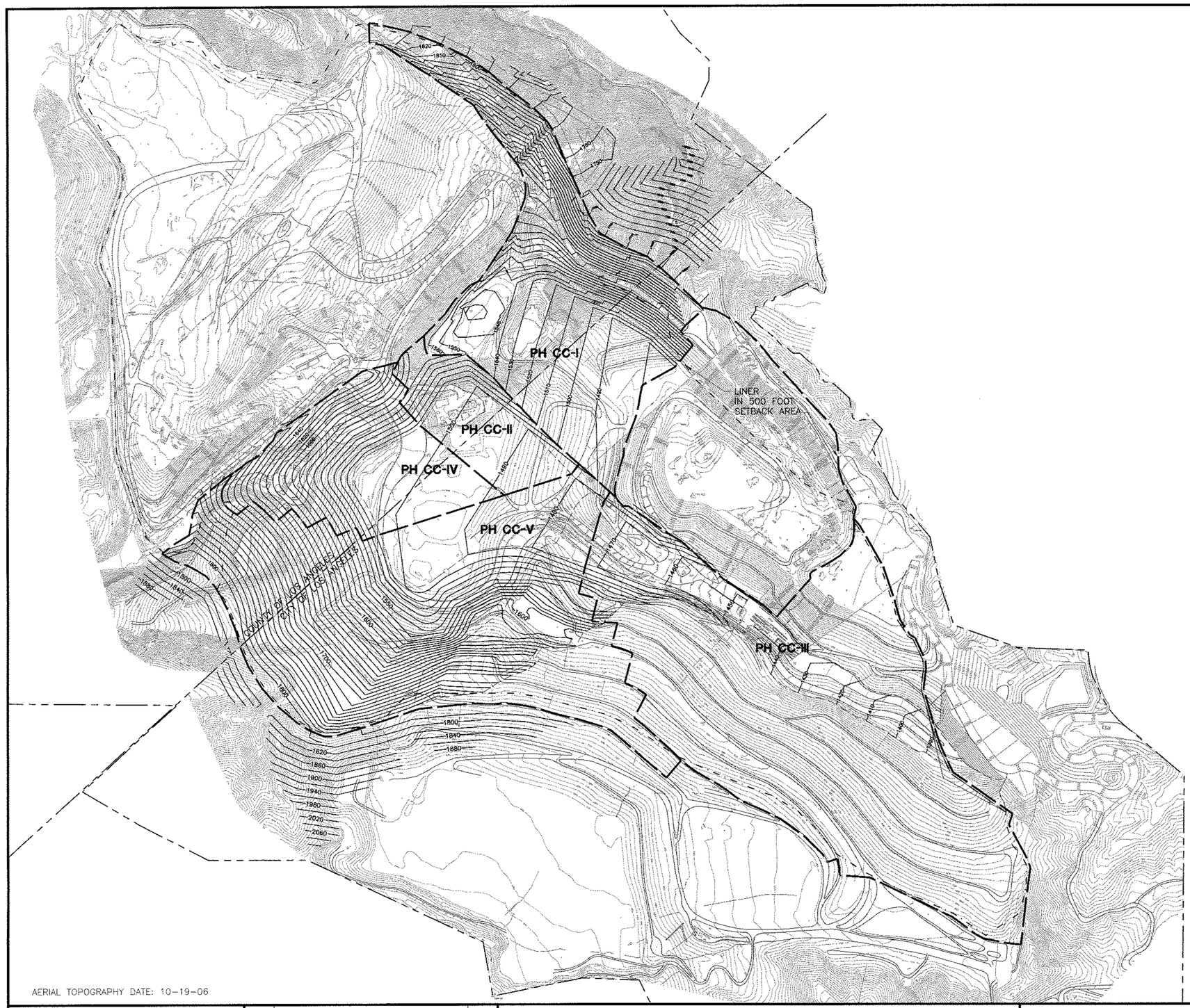
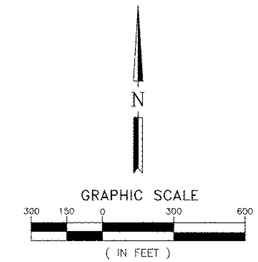
CIVIL
STATE OF CALIFORNIA

SUNSHINE CANYON LANDFILL JTD 2007
FINAL GRADING PLAN

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : C.A.L.	DATE : 2-2008	FILE NO.: 172964DB.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION





NOTES:

1) PORTIONS OF PHASE I ARE BEING CONSTRUCTED UNDER EXISTING SCL CITY AND SCL COUNTY PERMIT NUMBERS 19-AR-0002-2 AND 19-AA-0853 RESPECTIVELY.

2) BASE LINER GRADES ARE TOP OF LINER GRADE. LINER AND SUBDRAIN COMPONENTS TO BE PLACED 5 TO 8-FEET BELOW CONTOURS SHOWN.

3) BENCHES HAVE BEEN OMITTED FOR CLARITY ON THIS PLANNING DOCUMENT. BENCHES 15-FOOT MINIMUM WIDTH WILL BE PLACED AT 50-FOOT MAXIMUM VERTICAL INTERVALS.

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE LIMIT OF REFUSE
- 1650 EXISTING GRADE CONTOUR
- 1500 FINISHED GRADE CONTOUR
- TOP OR TOE OF SLOPE
- PHASE LINER LIMIT

AERIAL TOPOGRAPHY DATE: 10-19-06

FIGURE 9 – DWG 4

NO.	REVISION DESCRIPTION	BY:

BAS
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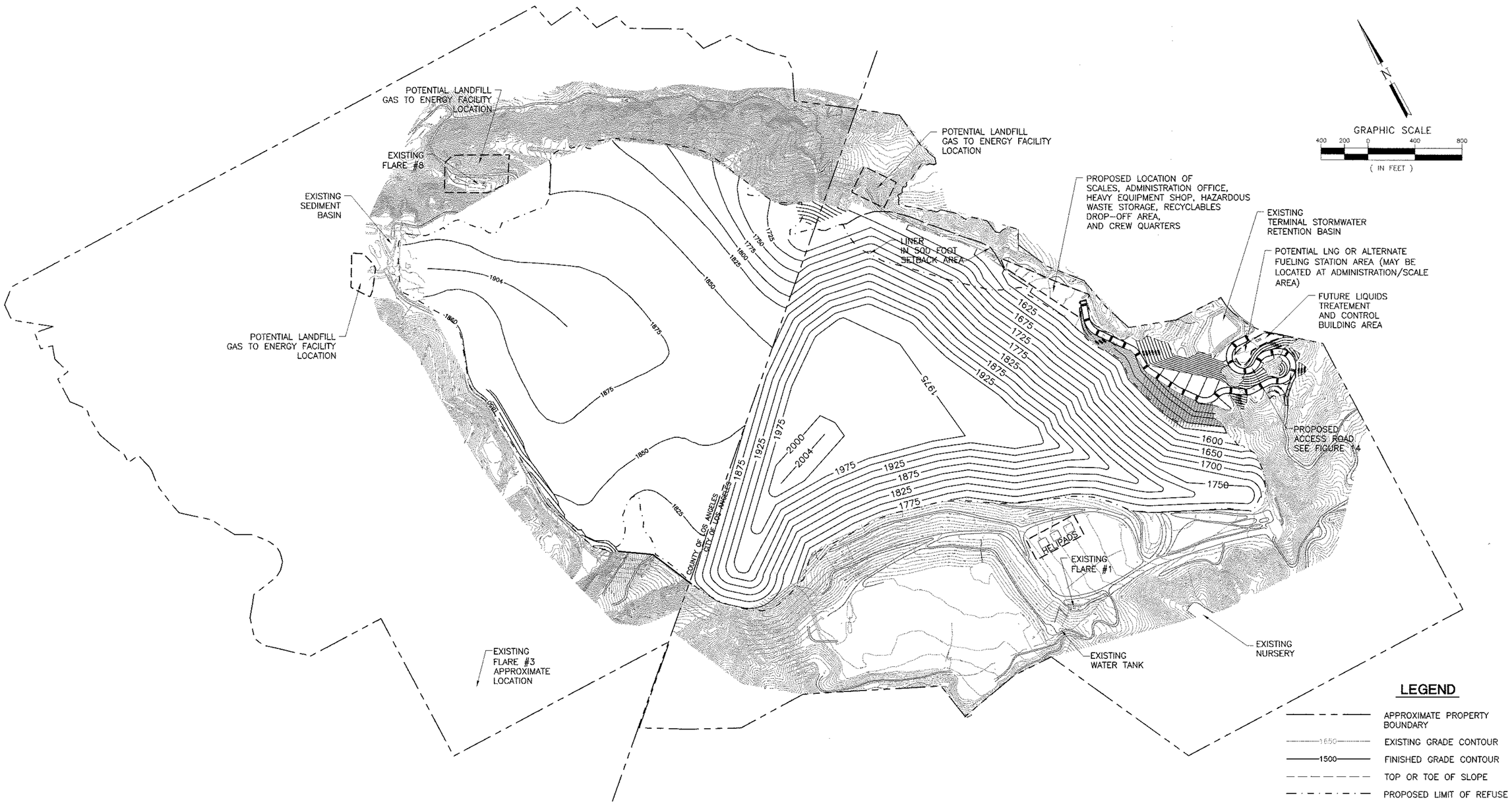
CIVIL
STATE OF CALIFORNIA

SUNSHINE CANYON LANDFILL JTD 2007 MASTER EXCAVATION PLAN

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : C.A.L.	DATE : 2-2008	FILE NO.: 172965DB.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION



AERIAL TOPOGRAPHY DATE: 10-19-06

FIGURE 13 – DWG 5

NO.	REVISION DESCRIPTION	BY:

BAS
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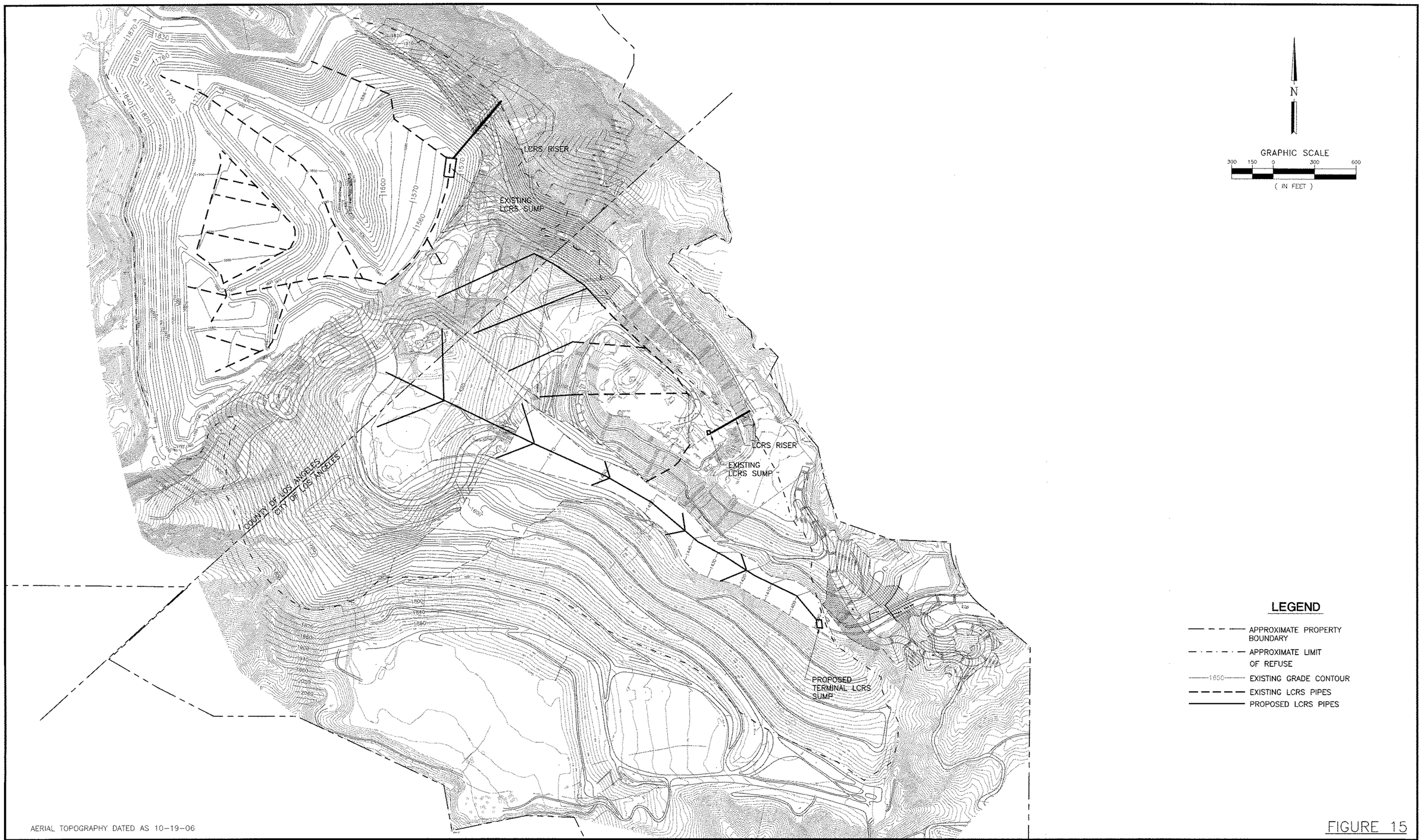
Exp. 12-31-09
CIVIL
STATE OF CALIFORNIA

SUNSHINE CANYON LANDFILL JTD 2007
PROPOSED SITE FACILITIES PLAN

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : C.A.L.	DATE : 2-2008	FILE NO.: 02275DB.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION



AERIAL TOPOGRAPHY DATED AS 10-19-06

FIGURE 15

NO.	REVISION DESCRIPTION	BY:

BAS
BRYAN A. STIRRAT & ASSOCIATES
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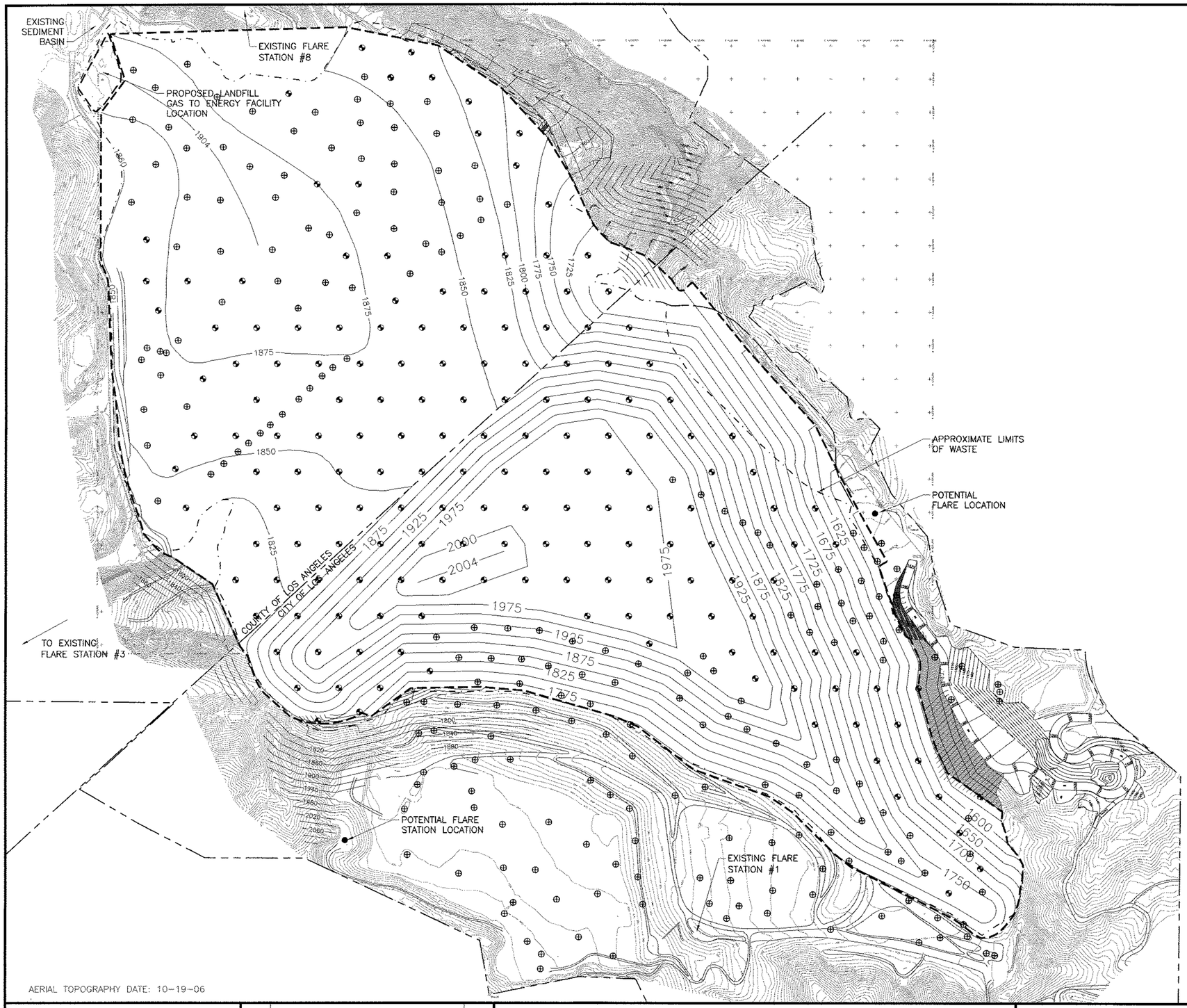
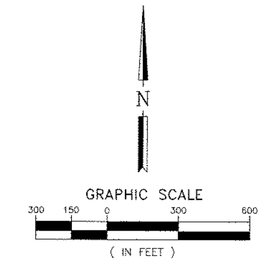
Exp. 12-31-09
CIVIL
STATE OF CALIFORNIA

SUNSHINE CANYON LANDFILL JTD 2007
LCRS PLAN (EXISTING AND PROPOSED)

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN		
DRAWN BY : D.C.R.	DATE : 2-2008	FILE NO.: 25131DB.DWG	
CHECKED BY : P.W.	DATE : 2-2008		
APPROVED BY :	DATE : 2-2008		

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION





LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- 1650 EXISTING GRADE CONTOUR
- 1500 FINISHED GRADE CONTOUR
- TOP OR TOE OF SLOPE
- PROPOSED LIMIT OF REFUSE
- BUTTRESS
- STABILITY BERM
- EXISTING VERTICAL GAS EXTRACTION WELL (MAY HAVE TO BE REPLACED OR EXTENDED AS LANDFILL EXPANDS)
- PROPOSED VERTICAL GAS EXTRACTION WELL

NOTES:
1. EXISTING AND PROPOSED HORIZONTAL GAS COLLECTORS NOT SHOWN.

FIGURE 18

NO.	REVISION DESCRIPTION	BY:

BAS
BRYAN A. STIRRAT & ASSOCIATES
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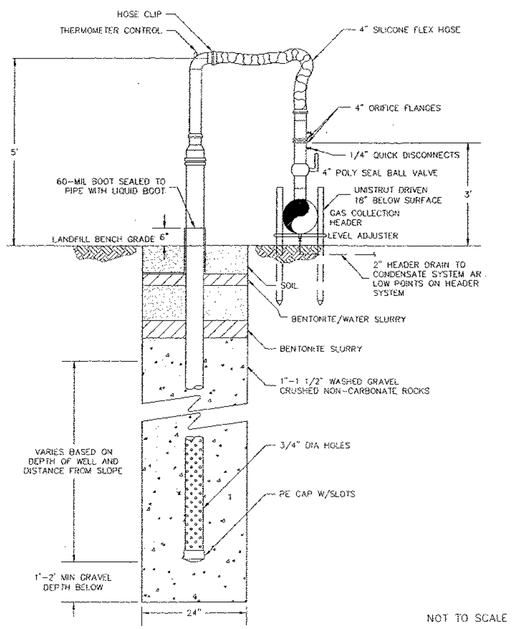
Exp. 12-31-09
CIVIL
STATE OF CALIFORNIA

SUNSHINE CANYON LANDFILL JTD 2007 EXISTING AND PROPOSED GAS COLLECTION SYSTEM

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : C.A.L.	DATE : 2-2008	FILE NO.: 86406DB.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

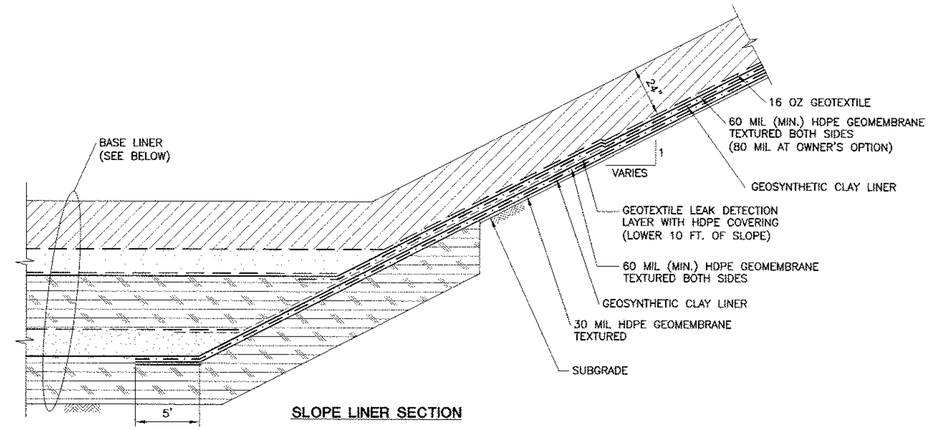
FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION



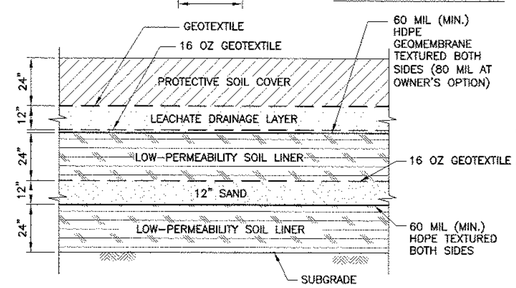
NOT TO SCALE

SOURCE: GEOSYNTEC CONSULTANTS – JTD (SCL PHASE I OF CITY LANDFILL UNIT 2) – 2/2002 – REV. 10/20002 & 12/2002

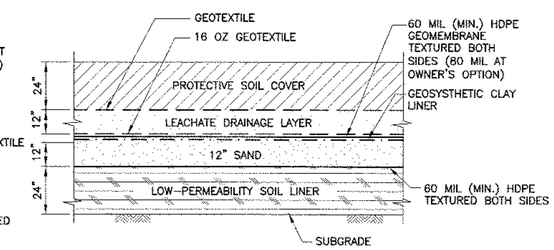
TYPYCAL VERTICAL LANDFILL GAS COLLECTION WELL



SLOPE LINER SECTION



BASE LINER SECTION



ALTERNATIVE BASE LINER SECTION

LINER SECTION

FIGURE 19 AND FIGURE 23

NO.	REVISION DESCRIPTION	BY:

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Exp. 12-31-09
CIVIL
STATE OF CALIFORNIA

SUNSHINE CANYON LANDFILL JTD 2007
LINER SECTIONS AND TYPICAL LFG WELL

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : C.A.L.	DATE : 2-2008	FILE NO.: 172886DB.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

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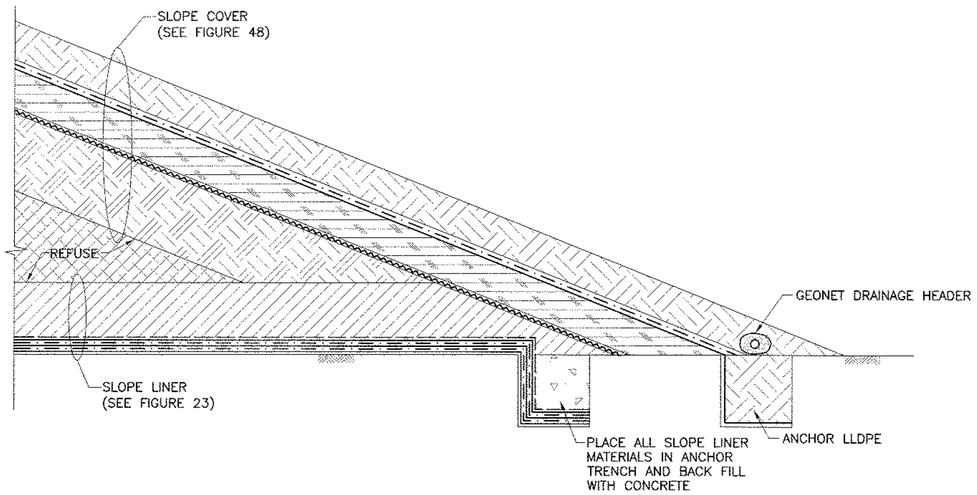
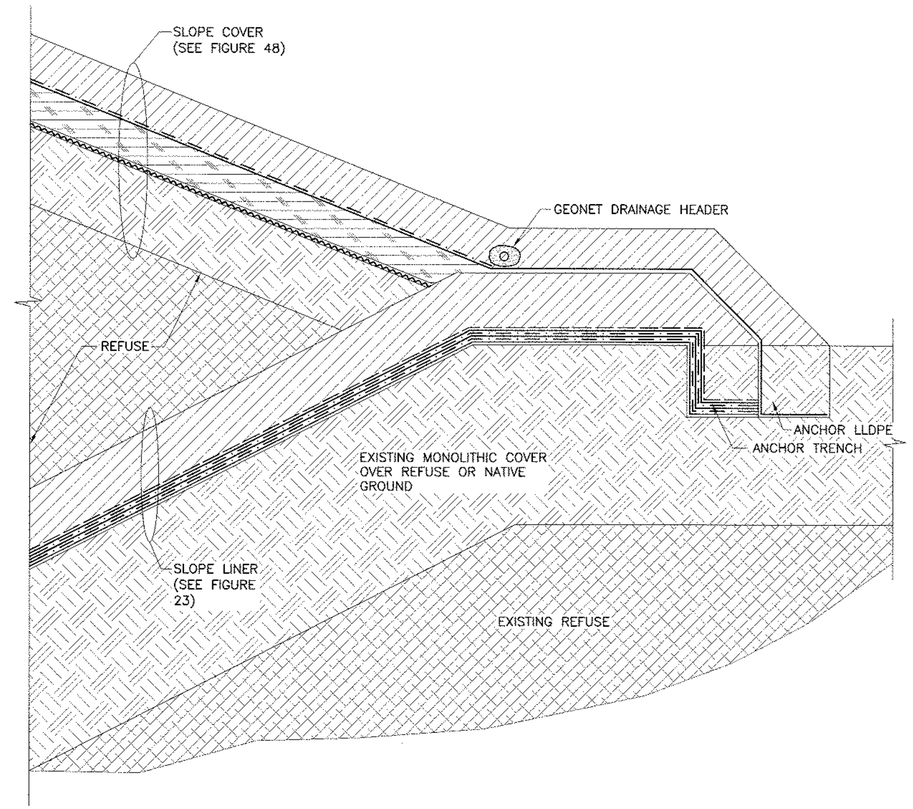


SIDE SLOPE LINER TERMINATION
NTS

1



FINAL COVER TERMINATION AT EDGE OF DISPOSAL FOOTPRINT
NTS

2

FIGURE 24A

NO.	REVISION DESCRIPTION	BY:

BAS
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REGISTERED PROFESSIONAL ENGINEER
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Exp. 12-31-09
CIVIL
STATE OF CALIFORNIA

SUNSHINE CANYON LANDFILL JTD 2007
DETAIL SHEET - OVERLAP ON
UNIT 1 OF CITY LANDFILL

DESIGNED BY : R.M.G./J.M.B.	SCALE : AS SHOWN	
DRAWN BY : D.C.R.	DATE : 2-2008	FILE NO.: 29857DB.DWG
CHECKED BY : P.W.	DATE : 2-2008	
APPROVED BY :	DATE : 2-2008	

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION