CONSTRUCTION QUALITY ASSURANCE PLAN

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Disposal Module 3.2 Liner System

Recology Hay Road Landfill

Vacaville, California

Submitted To: Recology Hay Road
235 North First Street
Dixon, California, 95620

Submitted By: Golder Associates Inc.
1000 Enterprise Way
Suite 190
Roseville, CA 95678 USA

REGISTERED PROFESSIONAL ENGINEER
PETER E. BOWERS
C 65436
EXP. 9-30-11
CIVIL
STATE OF CALIFORNIA

Distribution:

May 2010

103-97128

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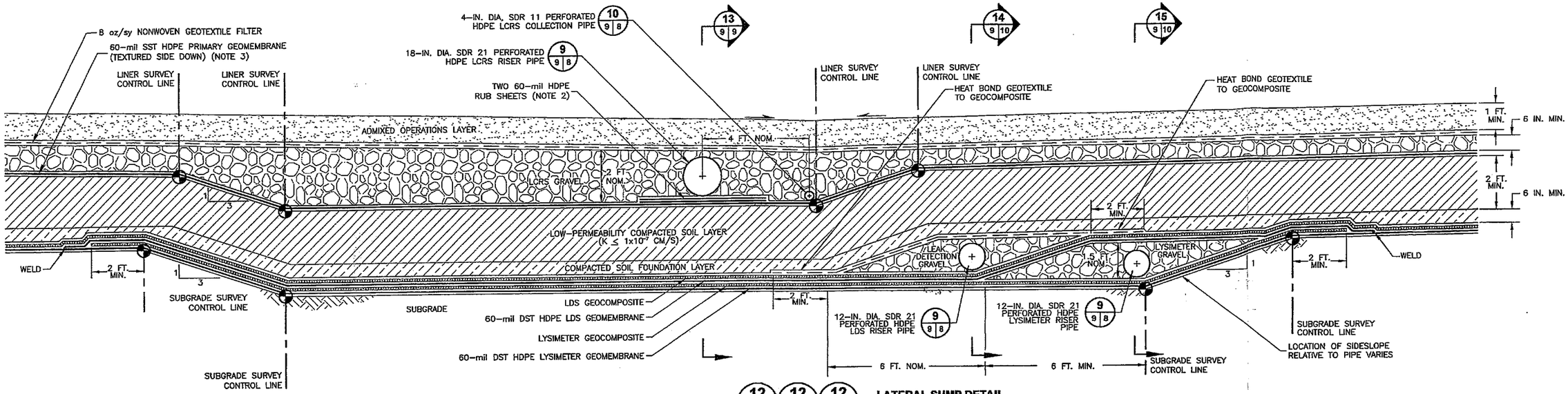
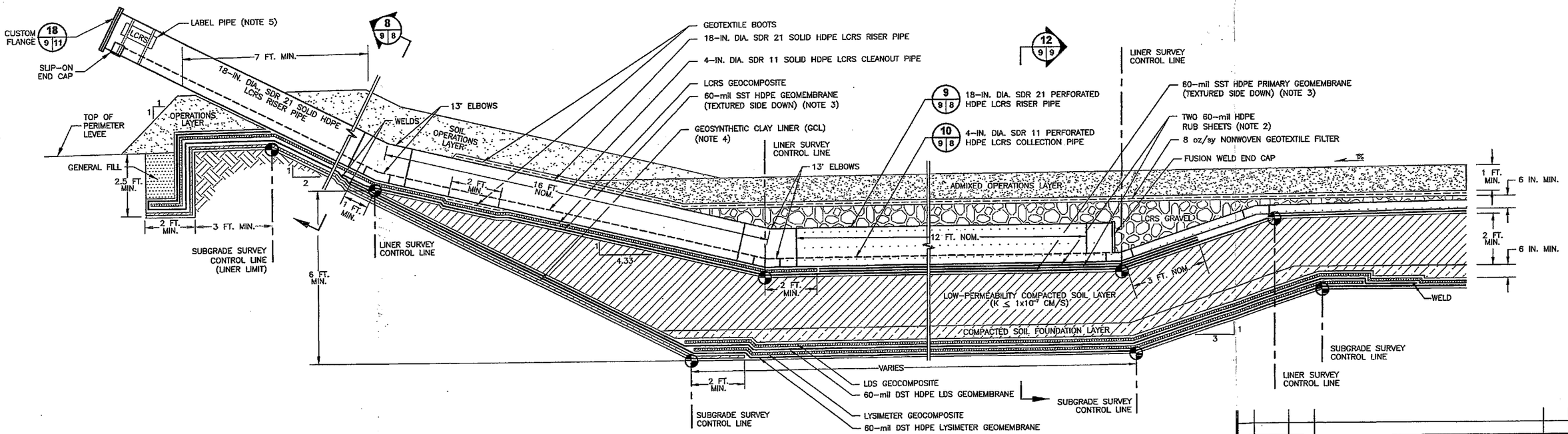
Golder Associates



LATERAL SUMP DETAIL

SCALE 2 0 2 FEET



SUMP DETAIL AT LCRS RISER PIPE

SCALE 2 0 2 FEET

LEGEND

- 1/2 SLOPE INDICATOR
- 2% GRADE INDICATOR
- SURVEY CONTROL INDICATOR (NOTE 6)
- DST DOUBLE-SIDED TEXTURE
- SST SINGLE-SIDED TEXTURE
- 8/3|6 — DETAIL/SECTION DESIGNATION; DRAWING WHERE SECTION/DETAIL IS LOCATED; DRAWING WHERE SECTION/DETAIL IS REFERENCED

NOTES

1) GEOSYNTHETICS THICKNESS EXAGGERATED FOR CLARITY.
2) TWO 5 FT WIDE 60-MIL HDPE RUB SHEETS OR ONE 5 FT WIDE GEOCOMPOSITE RUB SHEET SHALL BE PLACED UNDER THE 18 IN. DIAMETER LCRS PIPE WHERE IT LAYS OVER THE FLOOR GEOMEMBRANE. OVERLAP RUB SHEETS WITH LCRS GEOCOMPOSITE.
3) AS AN ALTERNATIVE TO SINGLE-SIDED TEXTURE, THE PRIMARY GEOMEMBRANE MAY BE TEXTURED ON BOTH SIDES.
4) GCL SHALL INCLUDE A 30-MIL HDPE GEOMEMBRANE BACKING. GEOMEMBRANE BACKING SHALL BE PLACED WITH THE GEOMEMBRANE IN CONTACT WITH THE SUBGRADE.
5) ALL RISER PIPES SHALL BE LABELED AS LCRS, LDS, LYS (LYSIMETER), OR INJ (INJECTION) WITH A METAL SIGN BANDED TO PIPE AT TOP OF RISER TERMINATION. SUBMIT SIGN DESIGN TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.
6) REFER TO DRAWINGS 3 AND 4 FOR CONTROL POINT INFORMATION.

REGISTERED PROFESSIONAL ENGINEER PETER E. BOWERS NO. C65406 EXP. 06/30/09 CIVIL STATE OF CALIFORNIA

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW

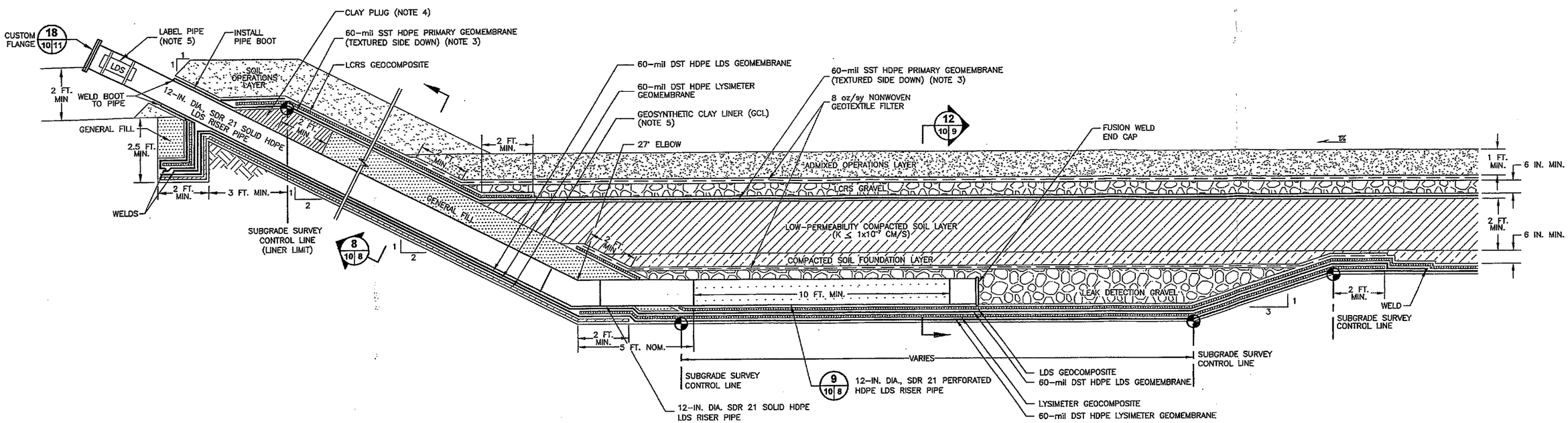
PROJECT
RECOLOGY HAY ROAD
DM-3.2 LINER DESIGN
SOLANO COUNTY, CA

TITLE
SUMP DETAILS

Golder Associates
Roseville, CA

PROJECT No.	103-97128	FILE No.	RHR DM32 7-10
DESIGN	PSR 5-14-10	SCALE	AS SHOWN REV. 0
CADD	JTK 5-14-10		
CHECK	RVW 5-14-10	9	
REVIEW	PEB 5-14-10		

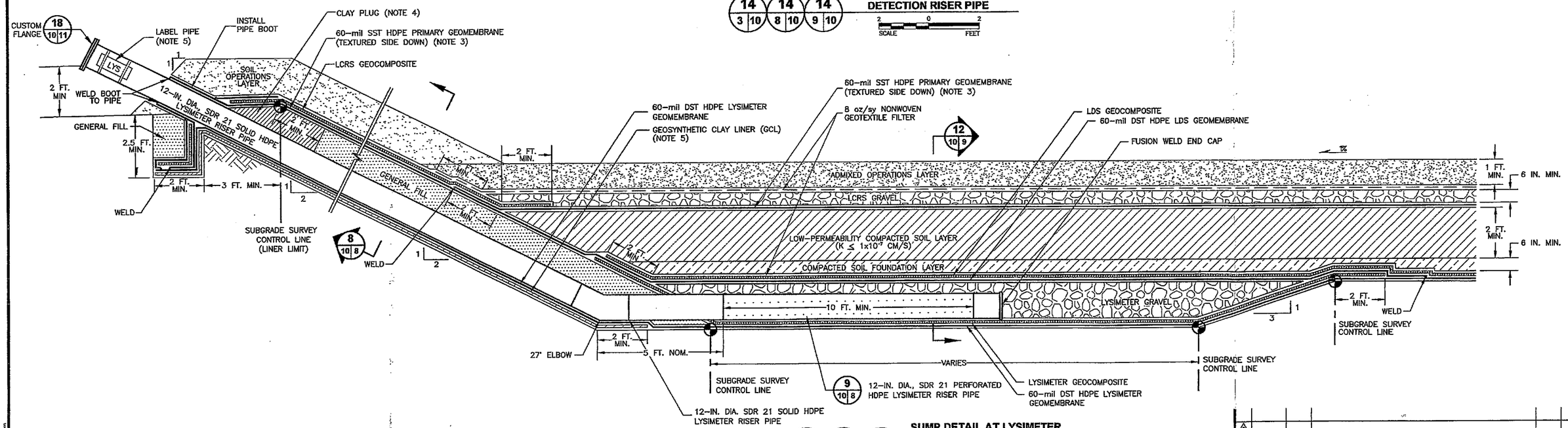
Drawing file: 103-97128 dwg 7-10 Rev 14, 2010 - 12:23pm



14 3 10 | 14 8 10 | 14 9 10

SUMP DETAIL AT LEAK DETECTION RISER PIPE

SCALE 2 0 2 FEET



15 3 10 | 15 8 10 | 15 9 10

SUMP DETAIL AT LYSIMETER RISER PIPE

SCALE 2 0 2 FEET

LEGEND

- 1/2 SLOPE INDICATOR
- 2% GRADE INDICATOR
- SURVEY CONTROL INDICATOR (NOTE 7)
- DST DOUBLE-SIDED TEXTURE
- SST SINGLE-SIDED TEXTURE

8 / 3 6 — DETAIL/SECTION DESIGNATION; DRAWING WHERE SECTION/DETAIL IS LOCATED; DRAWING WHERE SECTION/DETAIL IS REFERENCED

NOTES

1) GEOSYNTHETICS THICKNESS EXAGGERATED FOR CLARITY.
2) TWO 5 FT WIDE 60-mil HDPE RUB SHEETS OR ONE 5 FT WIDE GEOCOMPOSITE RUB SHEET SHALL BE PLACED UNDER THE 18 IN. DIAMETER LCRS PIPE WHERE IT LAYS OVER THE FLOOR GEOMEMBRANE. EXTEND RUB SHEET 2-FEET UP SLOPE.
3) AS AN ALTERNATIVE TO SINGLE-SIDED TEXTURE, THE PRIMARY GEOMEMBRANE MAY BE TEXTURED ON BOTH SIDES.
4) CLAY PLUG SHALL CONSIST OF ONSITE CLAY. CLAY PLUG SHALL BE COMPACTED TO 90% MODIFIED PROCTOR (ASTM D1557) AT 0 TO +4% OF OPTIMUM MOISTURE CONTENT.
5) GCL SHALL INCLUDE A 30-MIL HDPE GEOMEMBRANE BACKING. GEOMEMBRANE BACKING SHALL BE PLACED WITH THE GEOMEMBRANE IN CONTACT WITH THE SUBGRADE.
6) ALL RISER PIPES SHALL BE LABELED AS LCRS, LDS, LYS (LYSIMETER), OR INJ (INJECTION) WITH A METAL SIGN BANDED TO PIPE AT TOP OF RISER TERMINATION. SUBMIT SIGN DESIGN TO OWNER FOR APPROVAL PRIOR TO INSTALLATION.
7) REFER TO DRAWINGS 3 AND 4 FOR SURVEY CONTROL POINT INFORMATION.

REGISTERED PROFESSIONAL ENGINEER PETER E. BOWLES NO. C56436 EXP. 06/30/09 CIVIL STATE OF CALIFORNIA

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0						

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CADD	JTK	5-14-10	10	
CHECK	RVW	5-14-10		
REVIEW		5-14-10		

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