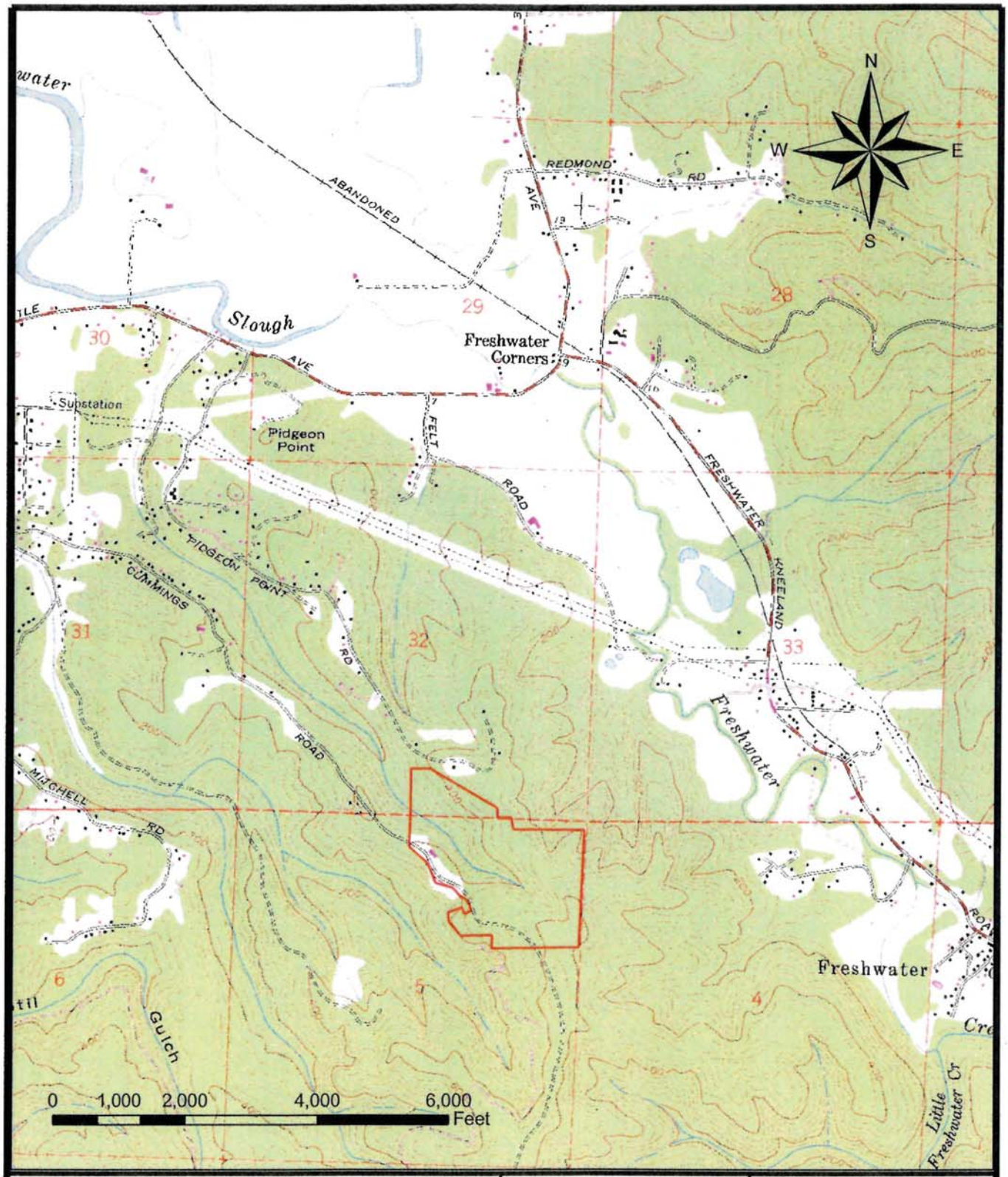
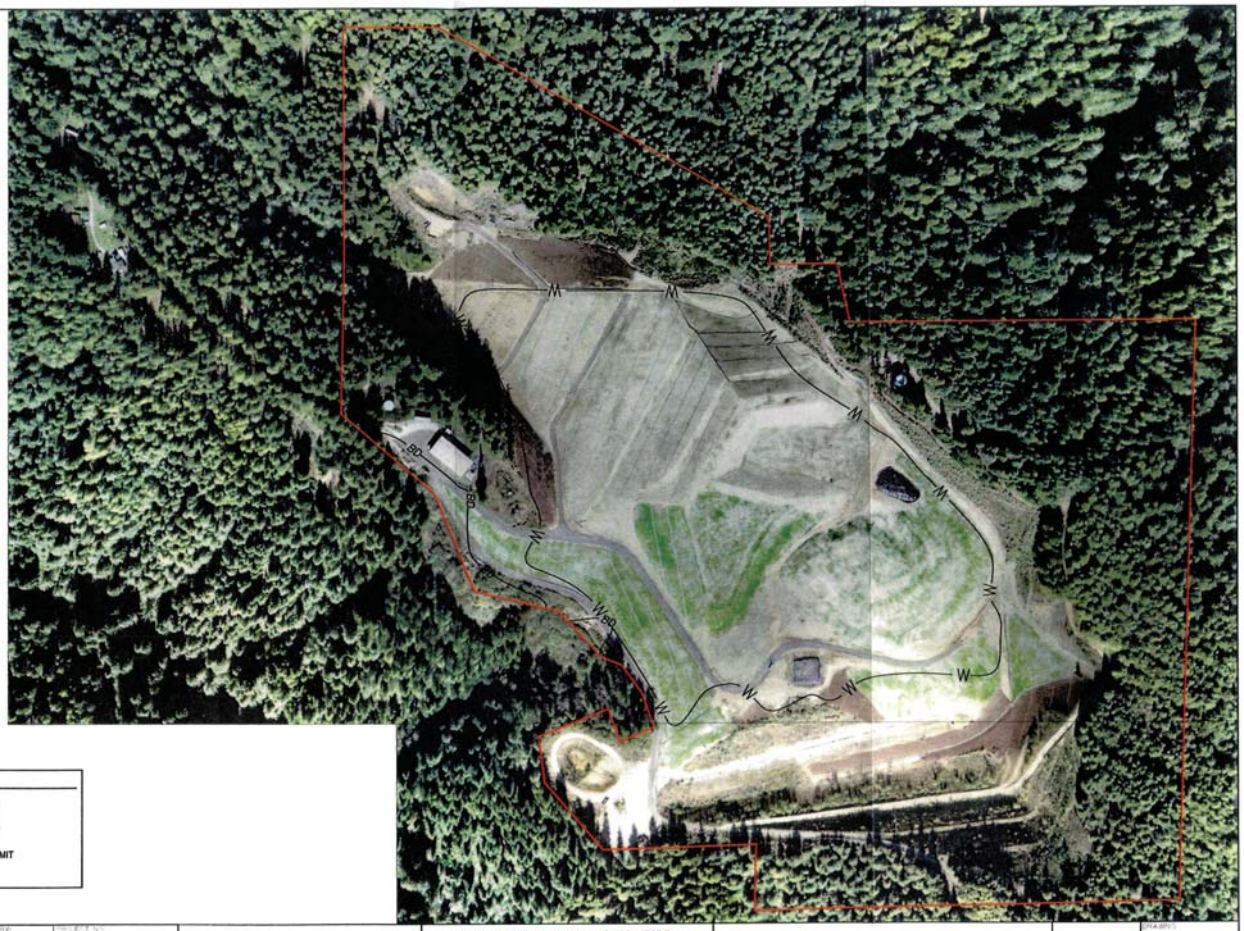


SITE VICINITY MAP **A portion of section 32 in T5N., R1E** **& a portion of section 5 in T.4N, R1E HB&M**	LAWRENCE & ASSOCIATES 3590 IRON COURT SHASTA LAKE, CA 96019 PHONE (530) 275-4800 FAX (530) 275-7970	SCALE: 1"=2000' DATE: 1-20-2009 JOB NUMBER: 008175.00
CLIENT: HUMBOLDT COUNTY / PROJECT: CUMMINGS RD. L.F.	DRAWN BY: D. ZAITZ	FIGURE 2

Z:\p\007102.00-Cummings Rd LF_utm83 ft\site vicinity map8.5x11.mxd

Attachment B



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- —W— APPROXIMATE LANDFILL WASTE LIMIT
- —BD— APPROXIMATE BURN DUMP WASTE LIMIT

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SHASTA LAKE, CA 96019
(530) 275-4800
(530) 275-7070 FAX

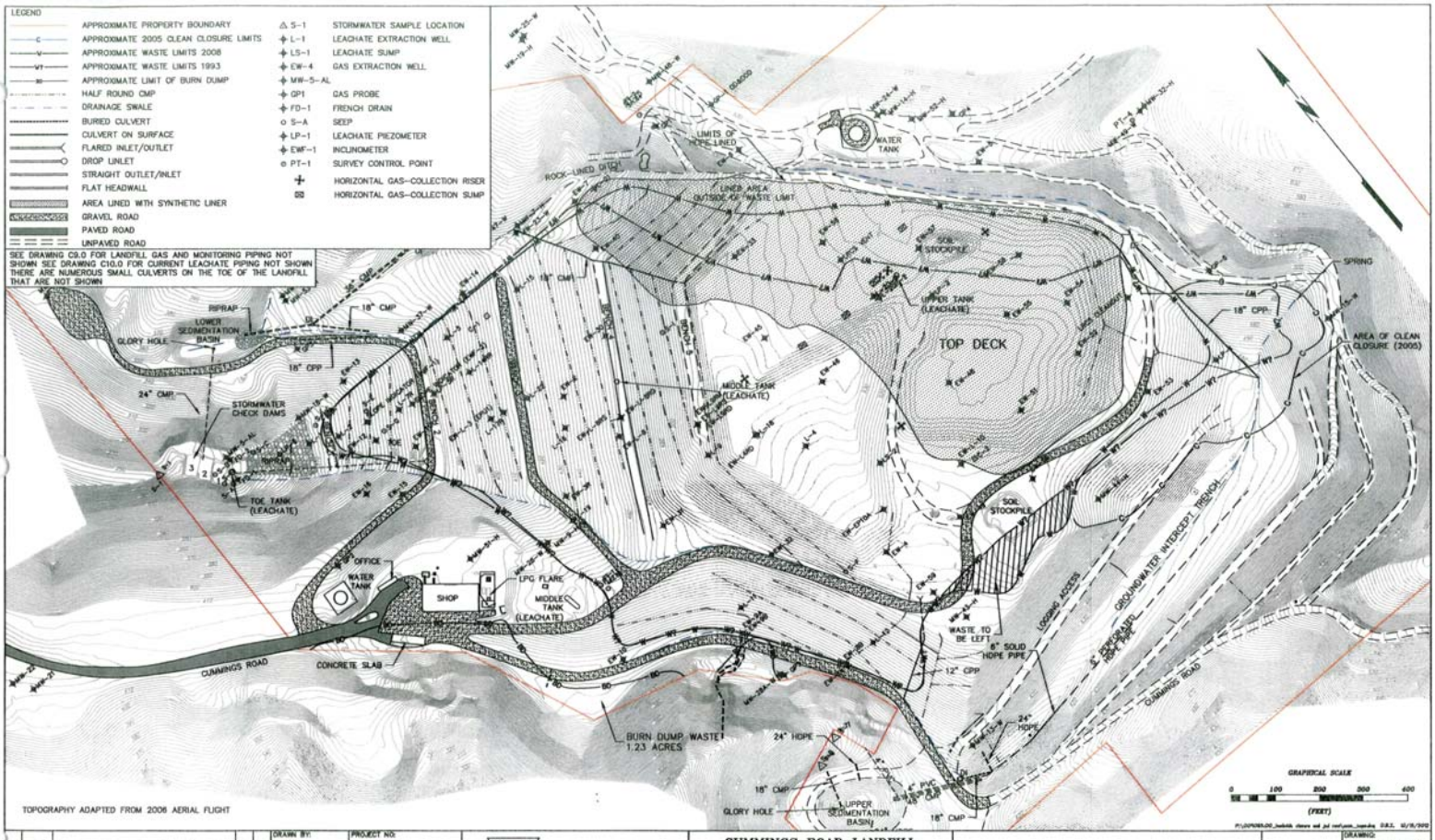
CUMMINGS ROAD LANDFILL

HUMBOLDT WASTE MANAGEMENT AUTHORITY
1059 WEST HAWTHORNE STREET
EUREKA, CA 95501

SITE VICINITY MAP

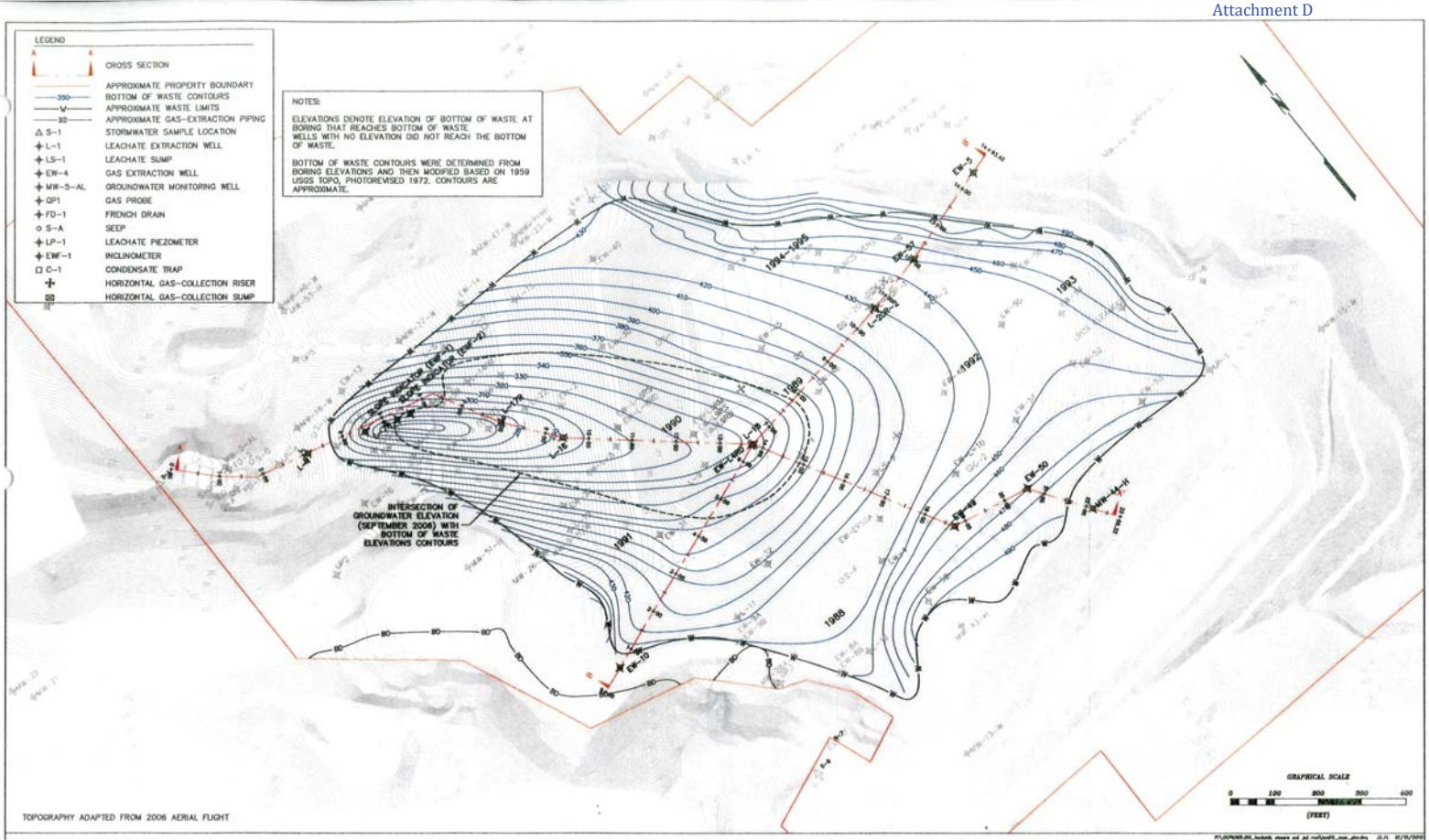
C1.0

REVISION 0



NO.	DATE	REVISIONS	BY	CHK	DRAWN BY: D. ZATZ	PROJECT NO: 8065.00	LAWRENCE & ASSOCIATES ENGINEERING GEOLOGY	3590 IRON CT. SHASTA LAKE, CA 96019 (530) 275-4800 (530) 275-7970 FAX
					ENGINEER: C. COLEY	SCALE: 1"=100'	CUMMINGS ROAD LANDFILL	2006 TOPOGRAPHY AND SITE FEATURES
					CHECKED BY:	APPROVED BY:	HUMBOLDT WASTE MANAGEMENT AUTHORITY 1059 WEST HAWTHORNE STREET EUREKA, CA 96001	
					DATE:	DATE:		

DRAWING: FIGURE 3
SHEET: OF
REVISION NO: REVISION 0
DATE: 7-12-12



NO.	DATE	REVISIONS	BY	CHK

DRAWN BY: G. ZAITZ
ENGINEER: G. COLES
CHECKED BY:
DATE:

PROJECT NO: 009065.00
SCALE: AS SHOWN
APPROVED BY:
DATE:

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SHASTA LAKE, CA 96019
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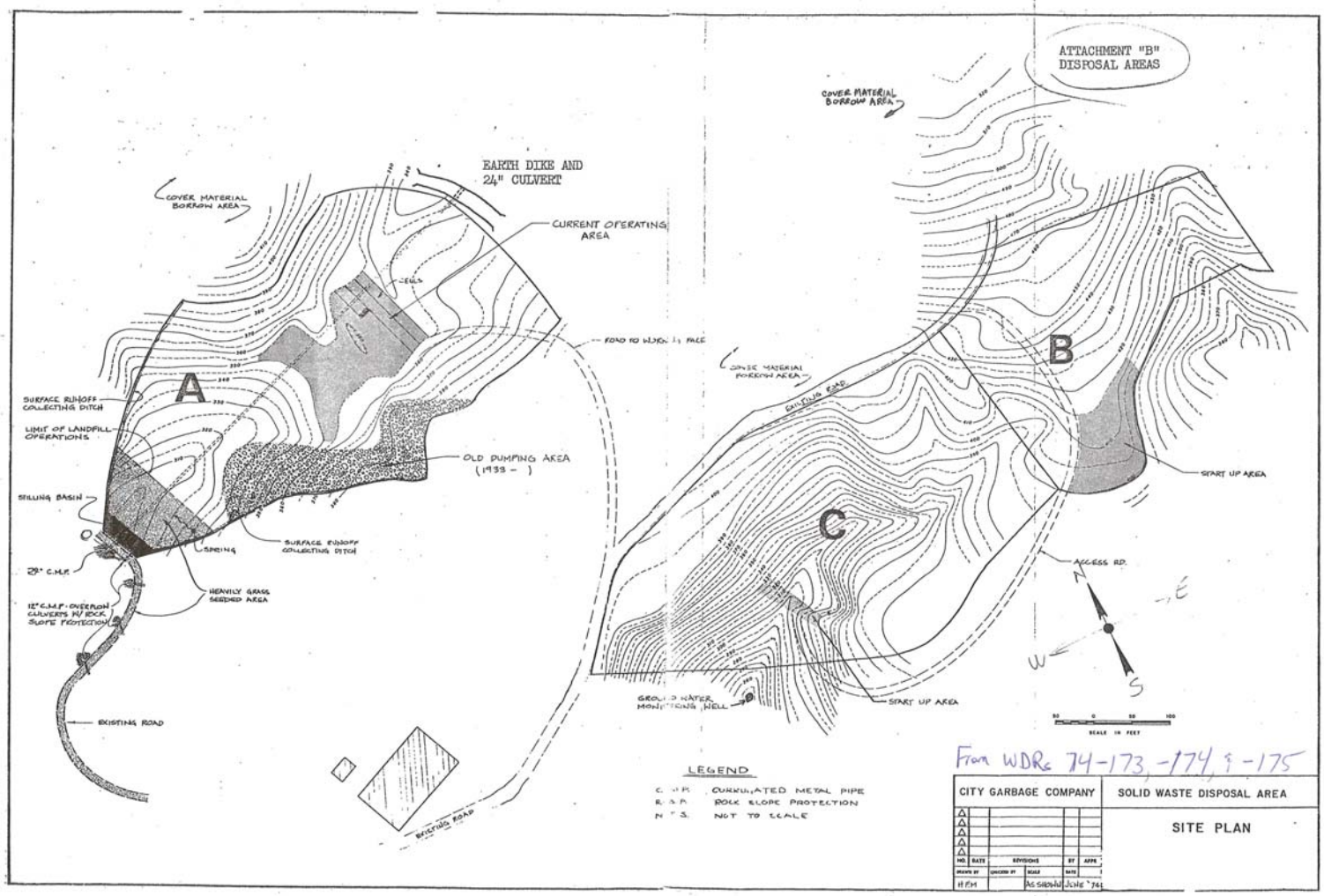
CUMMINGS ROAD LANDFILL

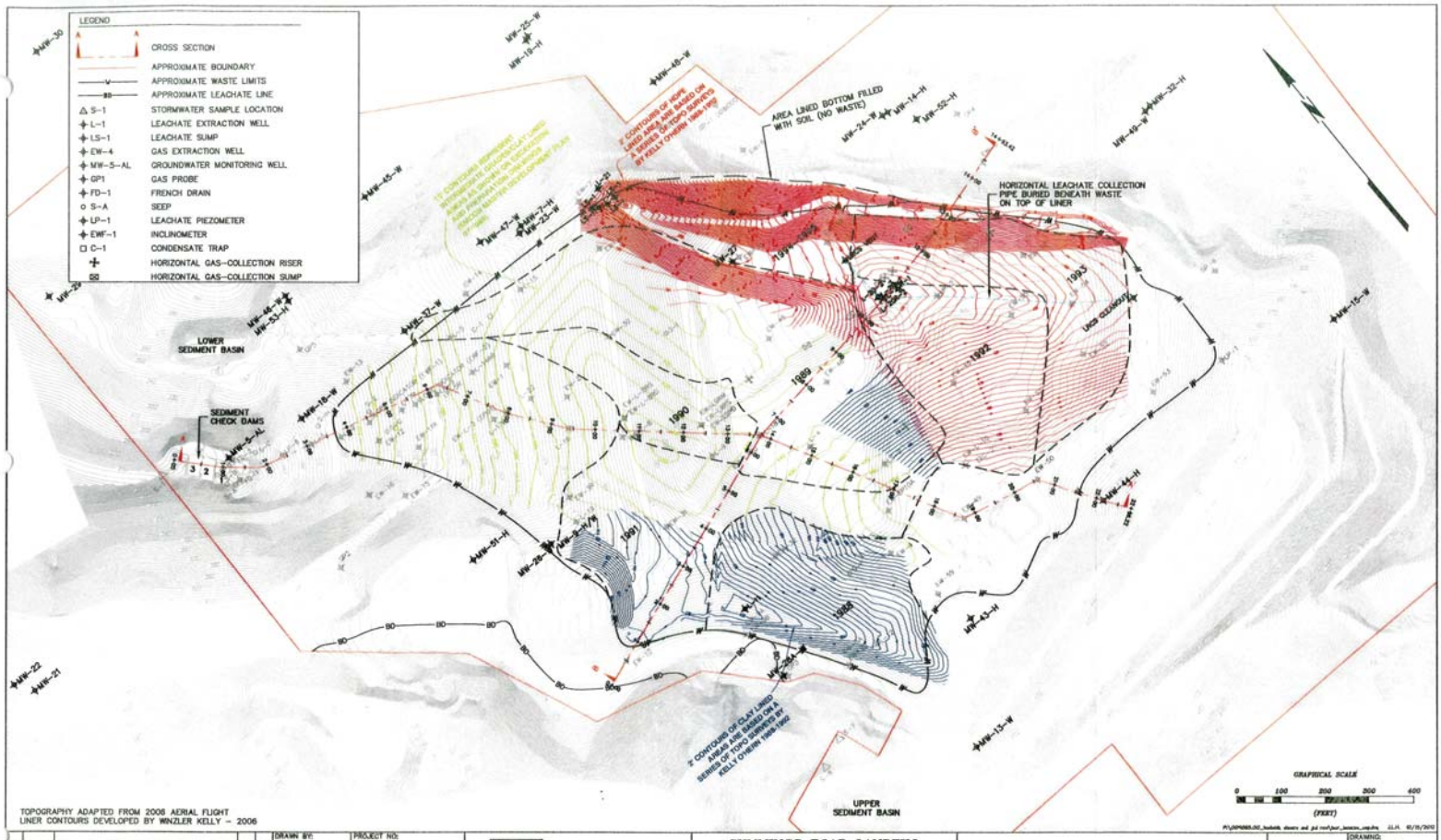
HUMBOLDT WASTE MANAGEMENT AUTHORITY
1059 WEST HAWTHORNE STREET
EUREKA, CA 96001

SITE MAP SHOWING INTERPRETED BOTTOM ELEVATIONS OF WASTE AND CROSS SECTIONS

DRAWING: FIGURE 4
SHEET: OF
REVISION NO: REVISION 0
DATE: 7-8-09

Attachment E





TOPOGRAPHY ADAPTED FROM 2006 AERIAL FLIGHT
LINER CONTOURS DEVELOPED BY WINZLER KELLY - 2006

NO.	DATE	REVISIONS	BY	CHK

DRAWN BY: G. ZATZ	PROJECT NO: 009065.00
ENGINEER: C. COLES	SCALE: AS SHOWN
CHECKED BY:	APPROVED BY:
DATE:	DATE:

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SHASTA LAKE, CA 96019
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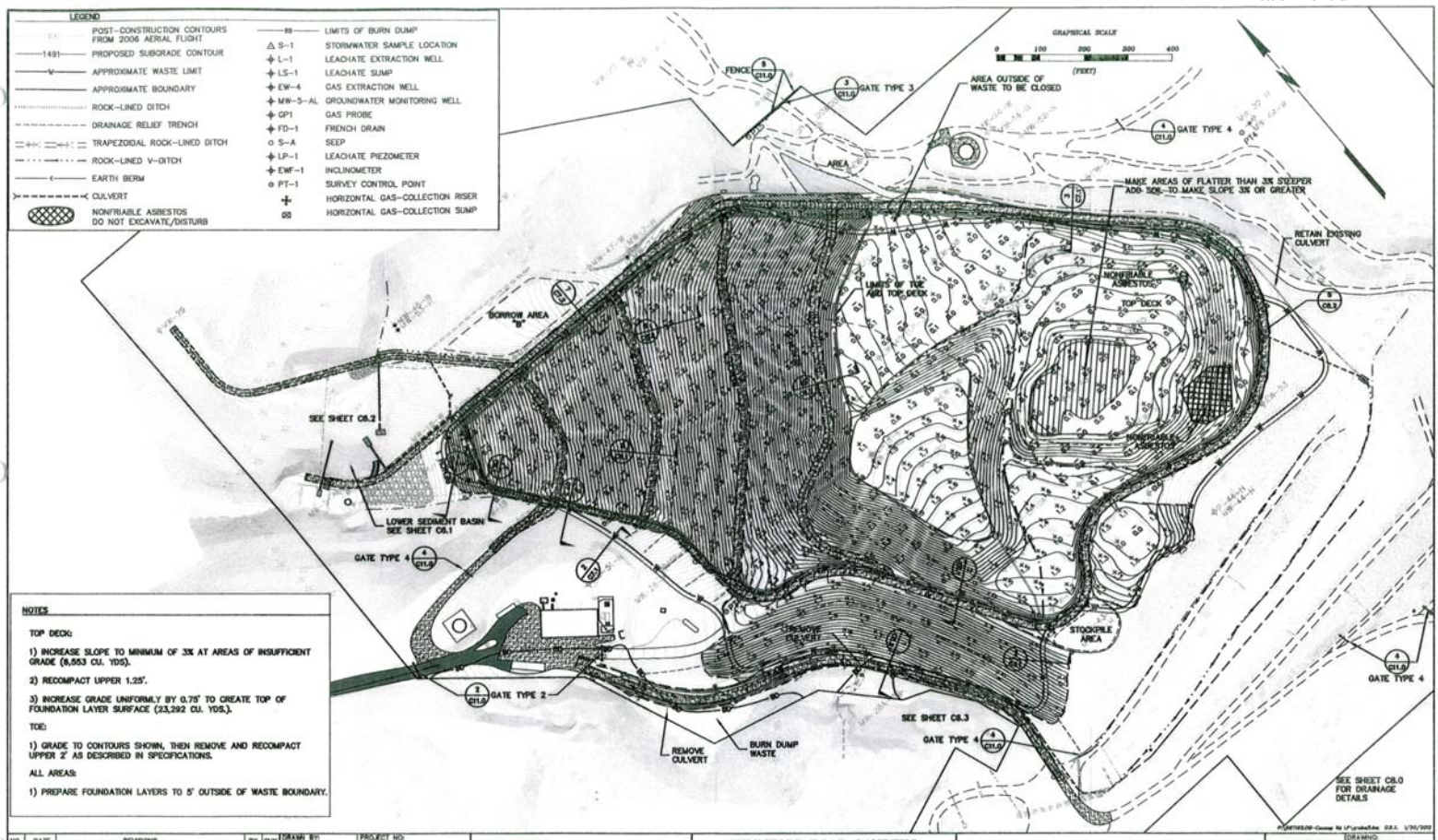
CUMMINGS ROAD LANDFILL

HUMBOLDT WASTE MANAGEMENT AUTHORITY
1059 WEST HAWTHORNE STREET
EUREKA, CA 96001

APPROXIMATE INTERMEDIATE LINER LOCATIONS

DRAWING: J-7
SHEET: OF
REVISION NO: REVISION 0
DATE: 11-3-09



NOTES

TOP DECK:

1) INCREASE SLOPE TO MINIMUM OF 3% AT AREAS OF INSUFFICIENT GRADE (8,553 CU. YDS).

2) RECOMPACT UPPER 1.25'.

3) INCREASE GRADE UNIFORMLY BY 0.75' TO CREATE TOP OF FOUNDATION LAYER SURFACE (23,292 CU. YDS.).

TOE:

1) GRADE TO CONTOURS SHOWN, THEN REMOVE AND RECOMPACT UPPER 2' AS DESCRIBED IN SPECIFICATIONS.

ALL AREAS:

1) PREPARE FOUNDATION LAYERS TO 5' OUTSIDE OF WASTE BOUNDARY.

NO.	DATE	REVISIONS	BY	CHK

DRAWN BY: S. ZINTZ
ENGINEER: G. COLES
CHECKED BY:
DATE:
PROJECT NO: 009065.00
SCALE: 1"=100'
APPROVED BY:
DATE:

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ENGINEERS & GEOLOGISTS
3590 IRON COURT
SHASTA LAKE, CA 96019
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(530) 275-7970 FAX

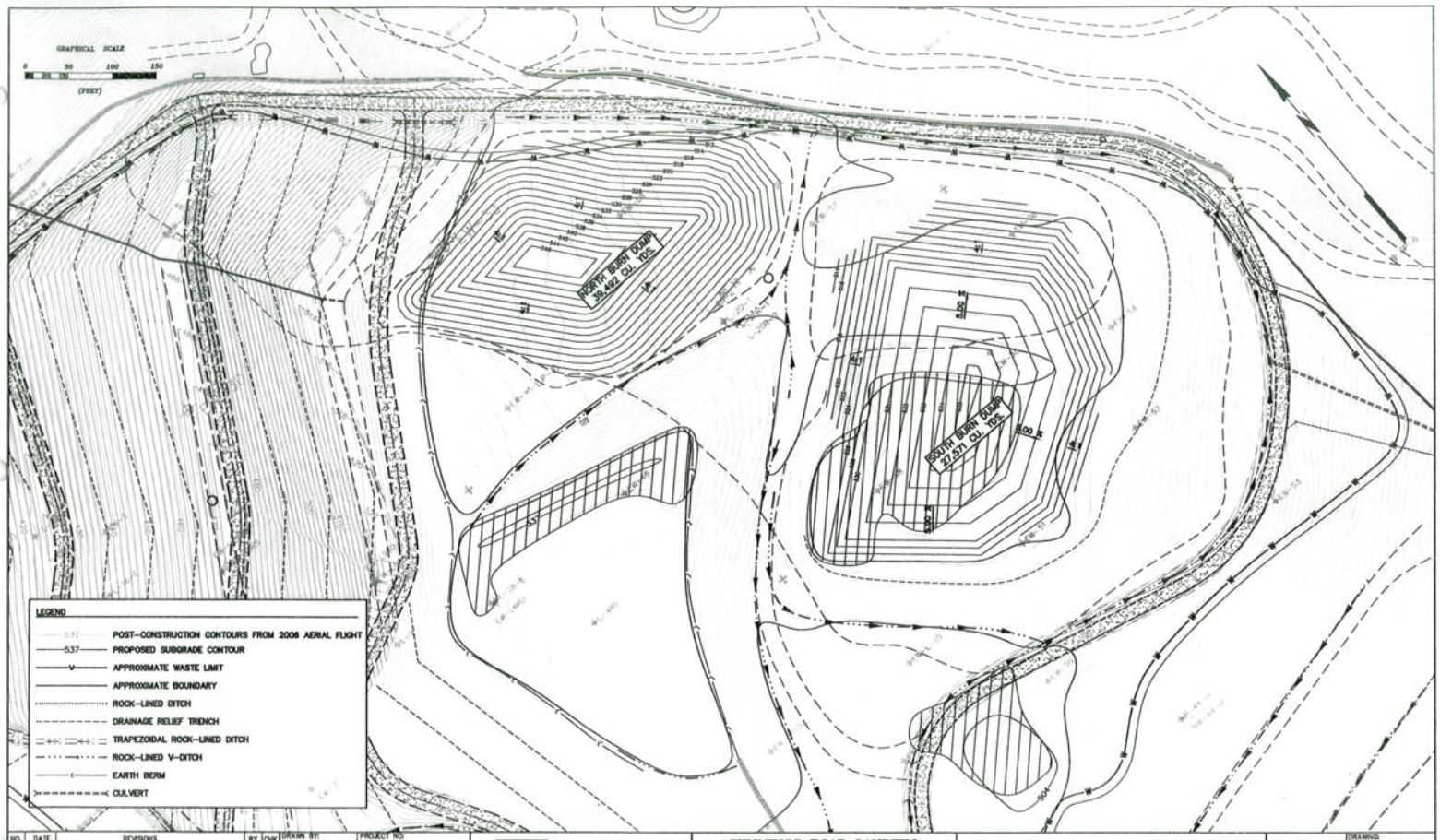
CUMMINGS ROAD LANDFILL

HUMBOLDT WASTE MANAGEMENT AUTHORITY
1059 WEST HAWTHORNE STREET
EUREKA, CA 95501

CLOSURE CAP
FOUNDATION LAYER
GRADING PLAN

REGISTERED GEOLOGIST CLAYTON E. COLES No. GE730 CERTIFIED ENGINEERING GEOLOGIST STATE OF CALIFORNIA

DRAWING: C6.0
SHEET: OF
REVISION NO: REVISION 0
DATE: 1/20/12



NO.	DATE	REVISIONS	BY	CHK

DRAWN BY: G. ZATZ
ENGINEER: G. OBER
CHECKED BY:
DATE:
PROJECT NO: 007103.00
SCALE: 1"=50'
APPROVED BY:
DATE:

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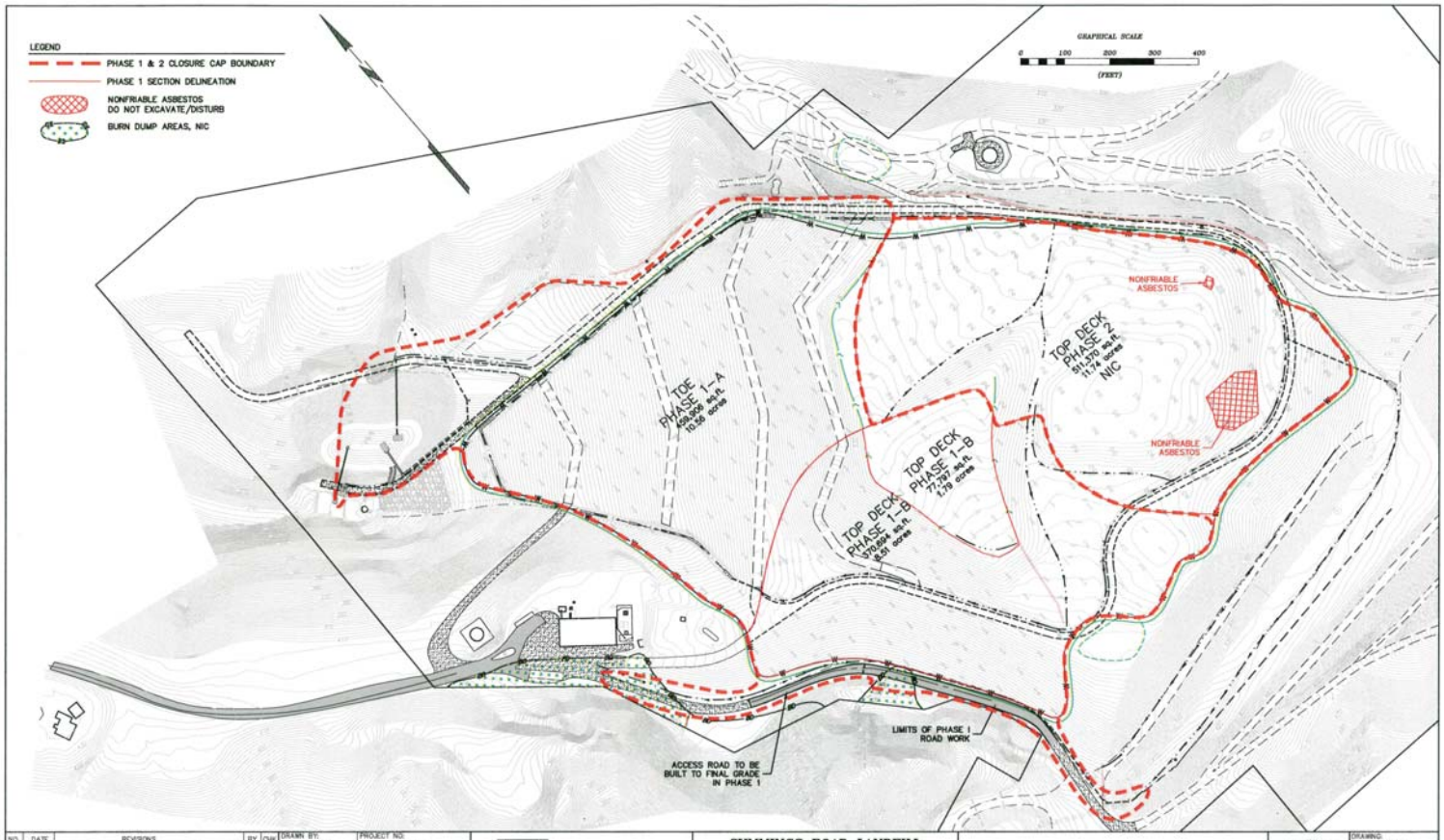
ENGINEERS & GEOLOGISTS
3590 IRON COURT
SHASTA LAKE, CA 96019
(530) 275-4600
(530) 275-7970 FAX

CUMMINGS ROAD LANDFILL

HUMBOLDT WASTE MANAGEMENT AUTHORITY
1059 WEST HAWTHORNE STREET
EUREKA, CA 95501

CLOSURE CAP
FOUNDATION LAYER GRADING
(BURN DUMP DISPOSAL OPTION)

DRAWING: C6.1
SHEET: OF
REVISION NO: REVISION 0
DATE: 3/10/03



NO.	DATE	REVISIONS	BY	CHK
1	3/14/12	BID SET	JS	CC

DRAWN BY: D. DATZ
ENGINEER: C. COXES
CHECKED BY:
DATE:
PROJECT NO: 009038.00
SCALE: 1"=100'
APPROVED BY:
DATE:

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ENGINEERS & GEOLOGISTS
3590 IRON COURT
SHASTA LAKE, CA 96019
(530) 275-4800
(530) 275-7970 FAX

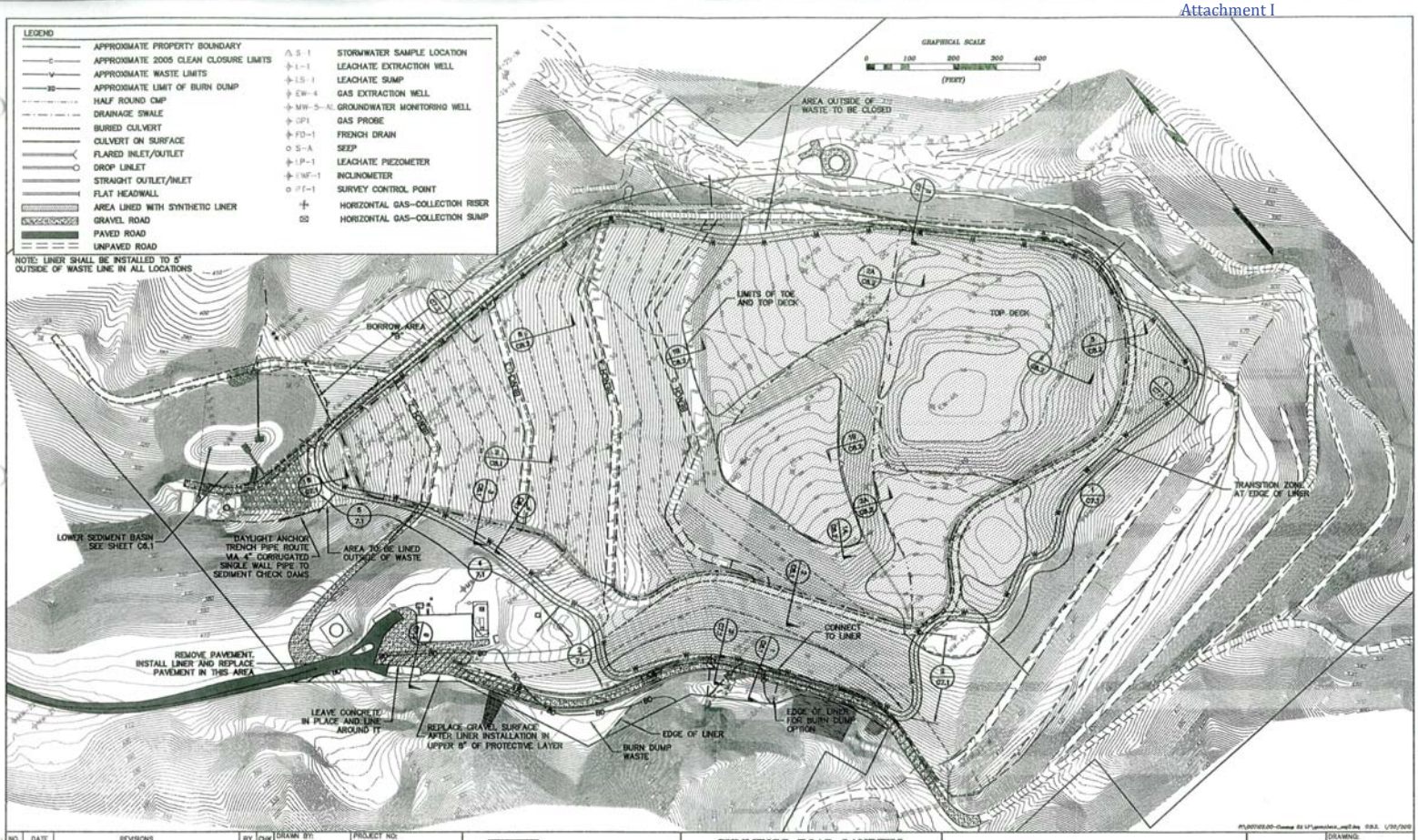
CUMMINGS ROAD LANDFILL

HUMBOLDT WASTE MANAGEMENT AUTHORITY
1059 WEST HAWTHORNE STREET
EUREKA, CA 95501

CLOSURE CAP
PHASING PLAN

DRAWING: C5.1
SHEET: 4 OF 19
REVISION NO: REVISION 0
DATE: 3/14/12

Attachment I



NO.	DATE	REVISIONS	BY	CHK

DRAWN BY: B. DAVIS
ENGINEER: C. COLES
CHECKED BY:
DATE:
PROJECT NO: 007102.00
SCALE: 1"=100'
APPROVED BY:
DATE:

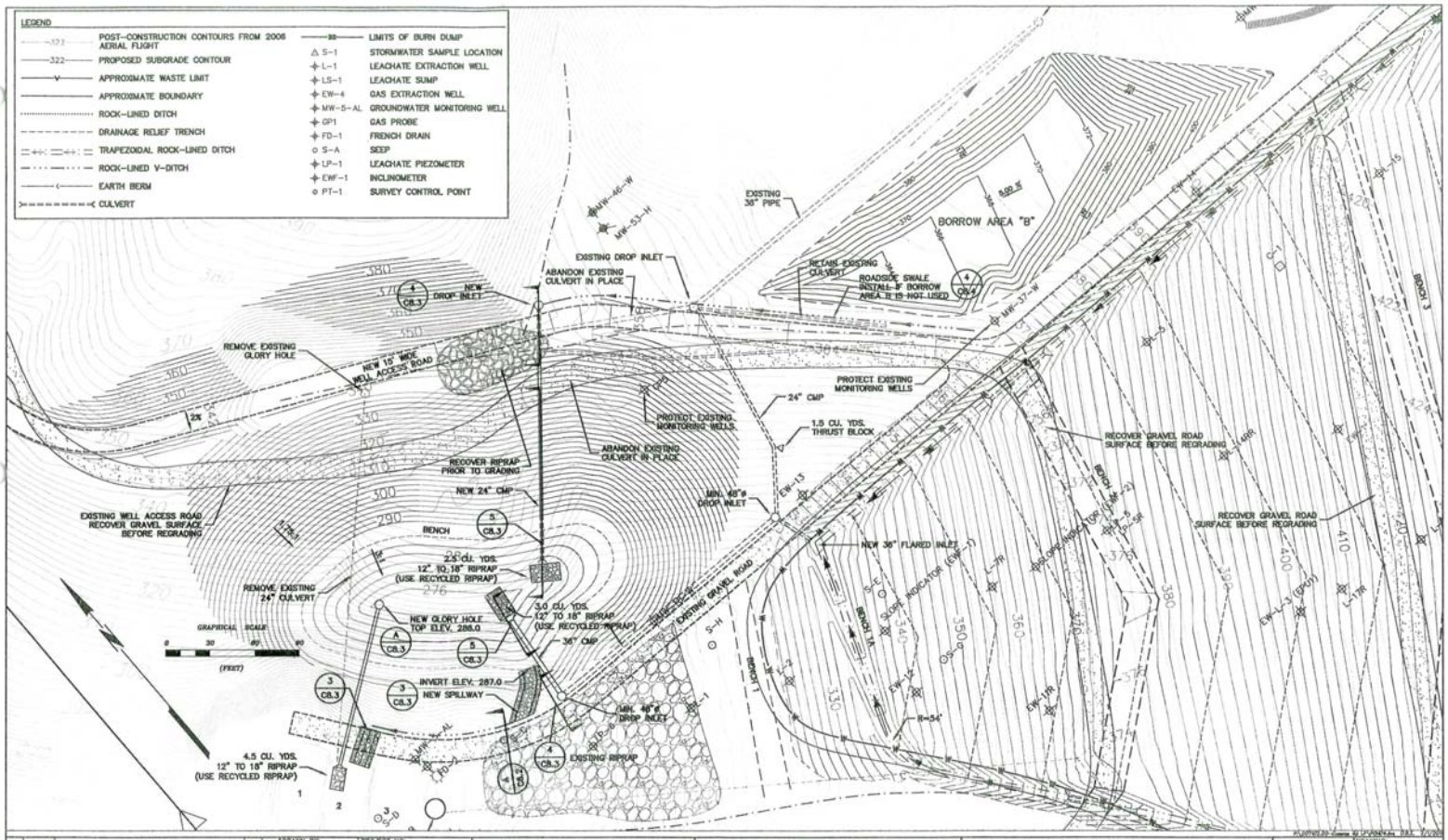
LAWRENCE & ASSOCIATES
ENGINEERS & GEOLOGISTS
2590 IRON COURT
SHASTA LAKE, CA 96019
(530) 275-4800
(530) 275-7970 FAX

CUMMINGS ROAD LANDFILL

HUMBOLDT WASTE MANAGEMENT AUTHORITY
1059 WEST HAWTHORNE STREET
EUREKA, CA 95501

GEOSYNTHETIC LOW HYDRAULIC CONDUCTIVITY AND GEOCOMPOSITE DRAINAGE LAYER PLAN

DRAWING: C7.0
SHEET: OF
REVISION NO: REVISION 0
DATE: 1/20/12



NO.	DATE	REVISIONS	BY	CHK

DRAWN BY: D. ZINTZ
ENGINEER: C. COLES
CHECKED BY:
DATE:
PROJECT NO: 007103.00
SCALE: 1"=30'
APPROVED BY:
DATE:

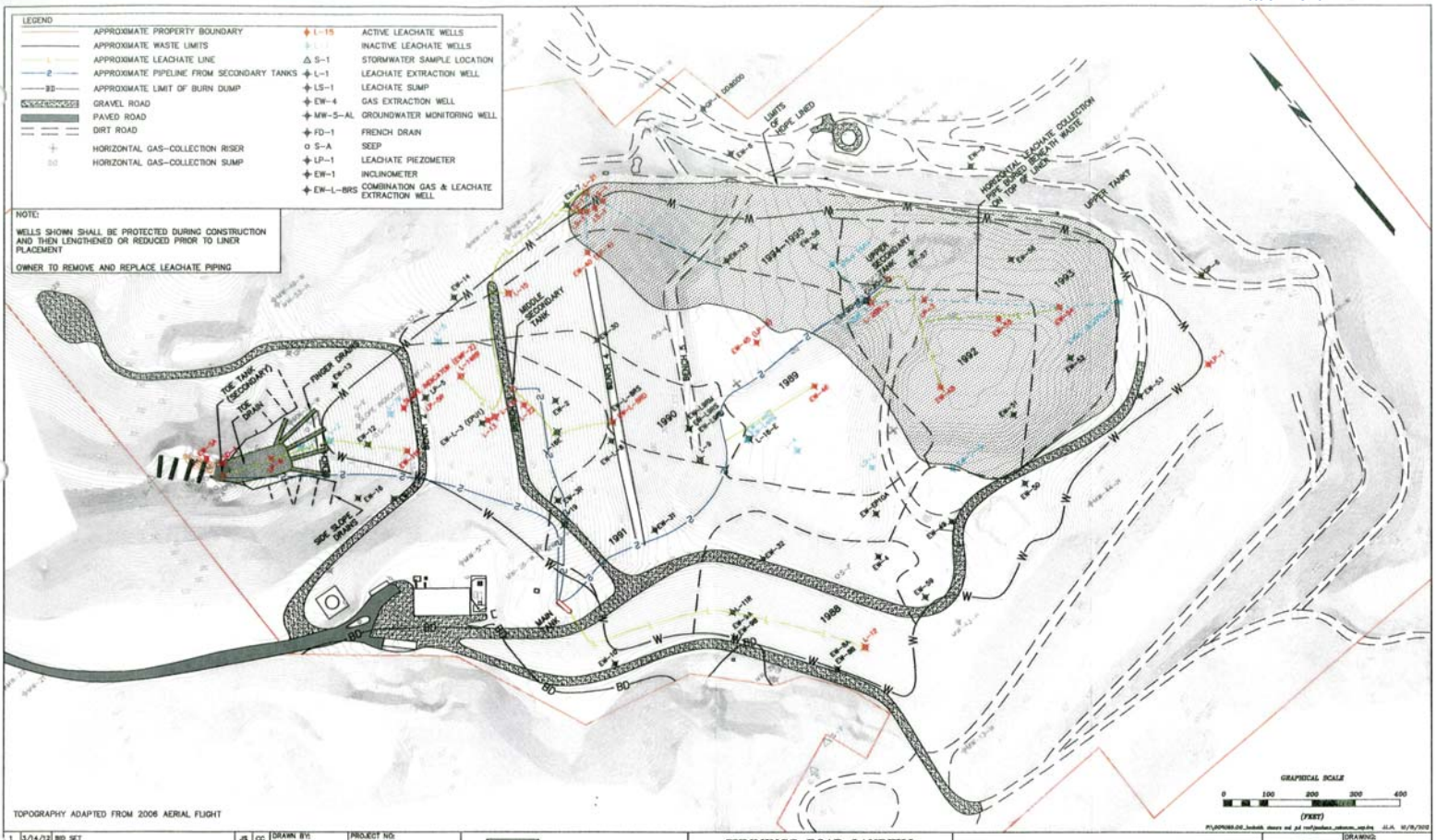
LAWRENCE & ASSOCIATES
ENGINEERS & GEOLOGISTS
3990 IRON COURT
SHASTA LAKE, CA 96019
(530) 275-4800
(530) 275-7970 FAX

CUMMINGS ROAD LANDFILL

HUMBOLDT WASTE MANAGEMENT AUTHORITY
1059 WEST HAWTHORNE STREET
EUREKA, CA 95501

LOWER STORMWATER POND GRADING PLAN

DRAWING: C6.2
SHEET: OF
REVISION NO: REVISION 0
DATE: 2/1/11



NO.	DATE	REVISIONS	BY	CHK
1	3/14/12	BID SET	JS	CC

DRAWN BY: B. ZAITZ
ENGINEER: C. COLES
CHECKED BY:
DATE:
PROJECT NO: 009036.00
SCALE: AS SHOWN
APPROVED BY:
DATE:

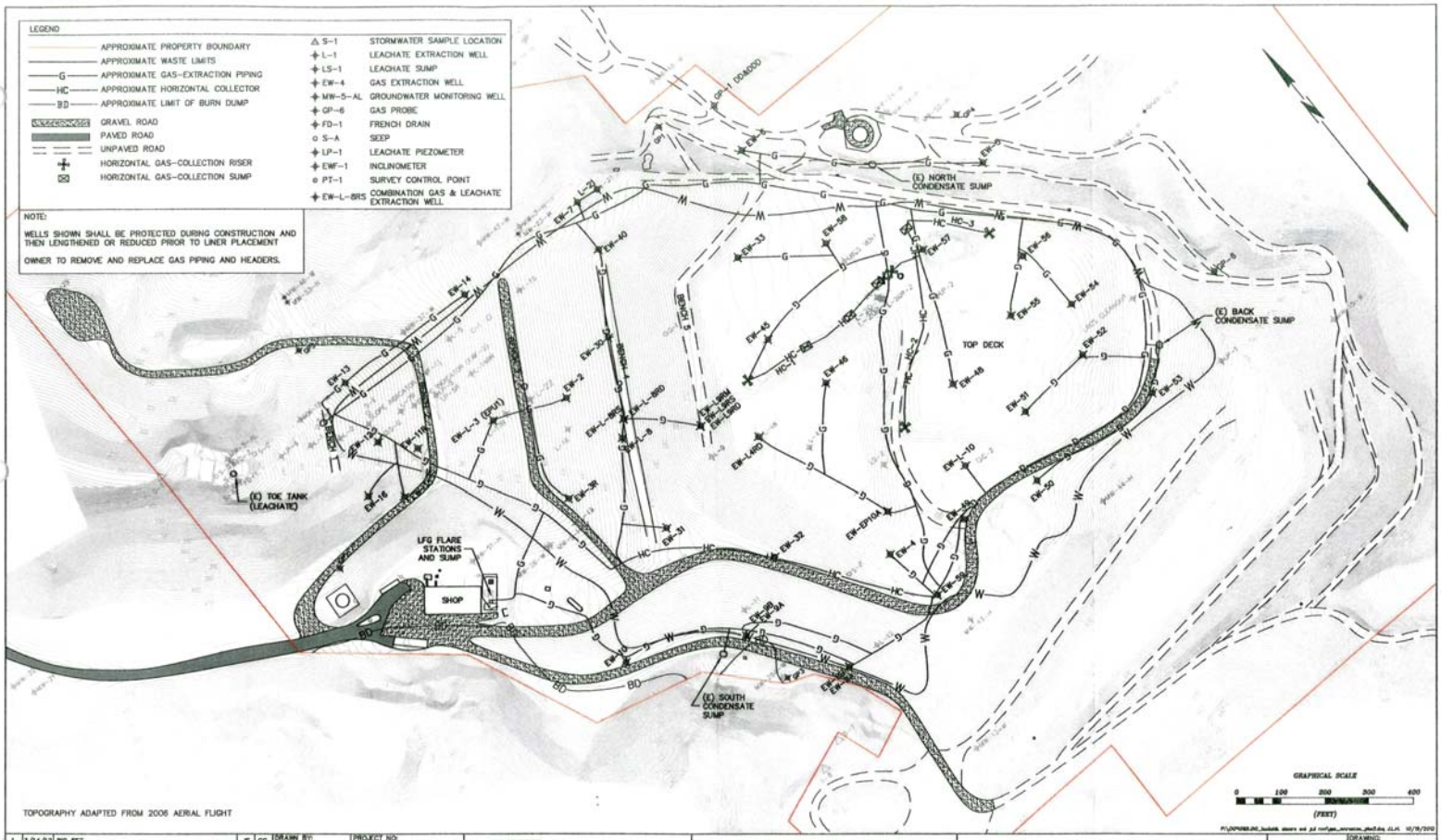
LAWRENCE & ASSOCIATES
ENGINEERING GEOLOGY
3590 IRON CT.
SHASTA LAKE, CA 96019
(530) 275-4300
(530) 275-7970 FAX

CUMMINGS ROAD LANDFILL

HUMBOLDT WASTE MANAGEMENT AUTHORITY
1059 WEST HAWTHORNE STREET
EUREKA, CA 96001

EXISTING LEACHATE COLLECTION SYSTEM PLAN

DRAWING: C10.0
SHEET: OF
REVISION NO: REVISION 0
DATE: 3-9-12



NO.	DATE	REVISIONS	BY	CHK
1	3/14/12	BID SET	JS	CC

DRAWN BY: D. ZAITZ
PROJECT NO: 9028.00
ENGINEER: C. COLES
SCALE: 1"=100'
CHECKED BY:
APPROVED BY:
DATE:
DATE:

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ENGINEERING GEOLOGY
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SHASTA LAKE, CA 96019
(530) 275-4800
(530) 275-7970 FAX

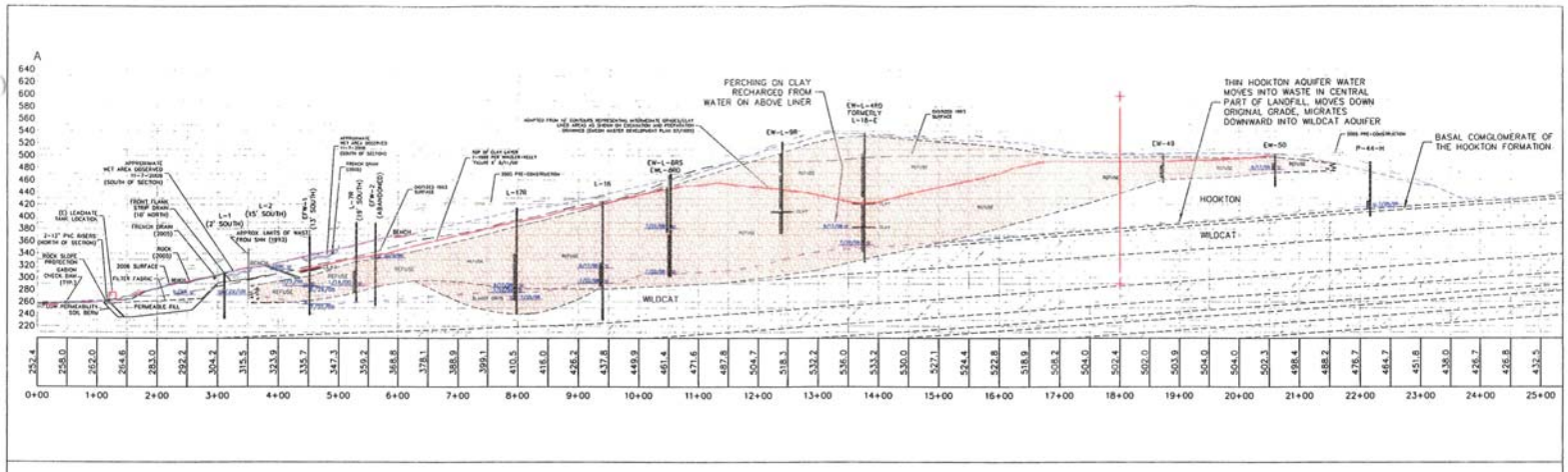
CUMMINGS ROAD LANDFILL

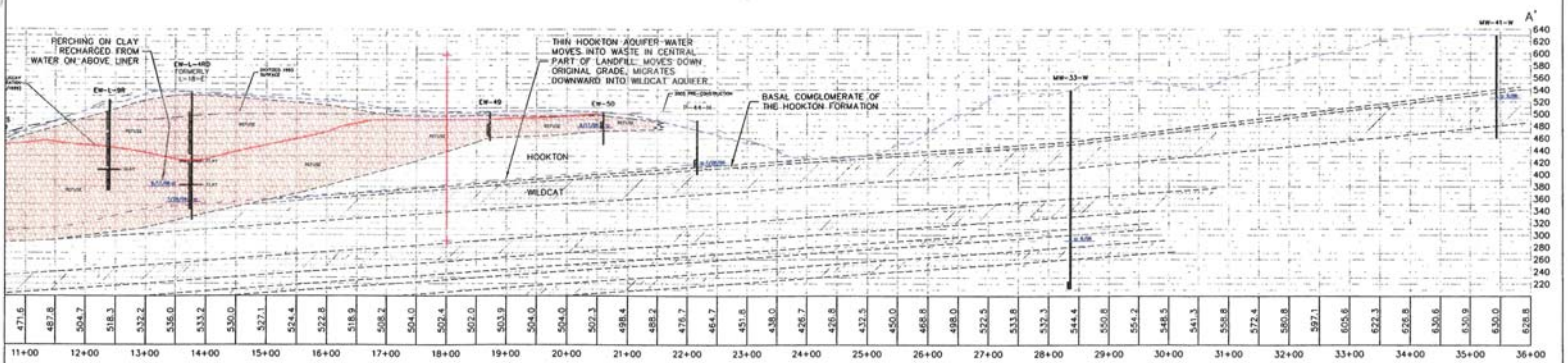
HUMBOLDT WASTE MANAGEMENT AUTHORITY
1059 WEST HAWTHORNE STREET
EUREKA, CA 96001

EXISTING LFG MONITORING AND GAS-EXTRACTION SYSTEM PLAN

DRAWING: C9.0
SHEET: 17 OF 19
REVISION NO: REVISION 0
DATE: 3-14-12

Attachment M





NO	DATE	REVISIONS	BY	CHK

DRAWN BY: D. ZAITZ
ENGINEER: C. COLES
CHECKED BY:
DATE:
PROJECT NO: 009065.00
SCALE: 1"=80'H & V
APPROVED BY:
DATE:

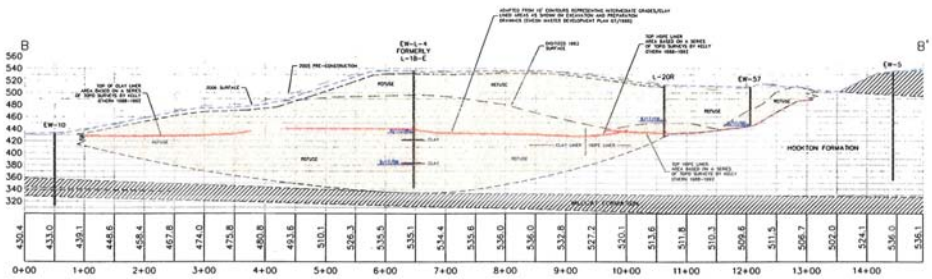
LAWRENCE & ASSOCIATES
ENGINEERING GEOLOGY
3590 IRON CT.
SHASTA LAKE, CA 96019
(530) 275-4800
(530) 275-7970 FAX

CUMMINGS ROAD LANDFILL

HUMBOLDT WASTE MANAGEMENT AUTHORITY
1059 WEST HAWTHORNE STREET
EUREKA, CA 96001

LANDFILL
CROSS SECTIONS
A–A'

DRAWING: J–5
SHEET: OF
REVISION NO: REVISION 0
DATE: 8/27/09



NO.	DATE	REVISIONS	BY	CHK

DRAWN BY: D. ZAITZ
ENGINEER: C. COLES
CHECKED BY:
DATE:

PROJECT NO: 009065.00
SCALE: 1"=80'H & V
APPROVED BY:
DATE:

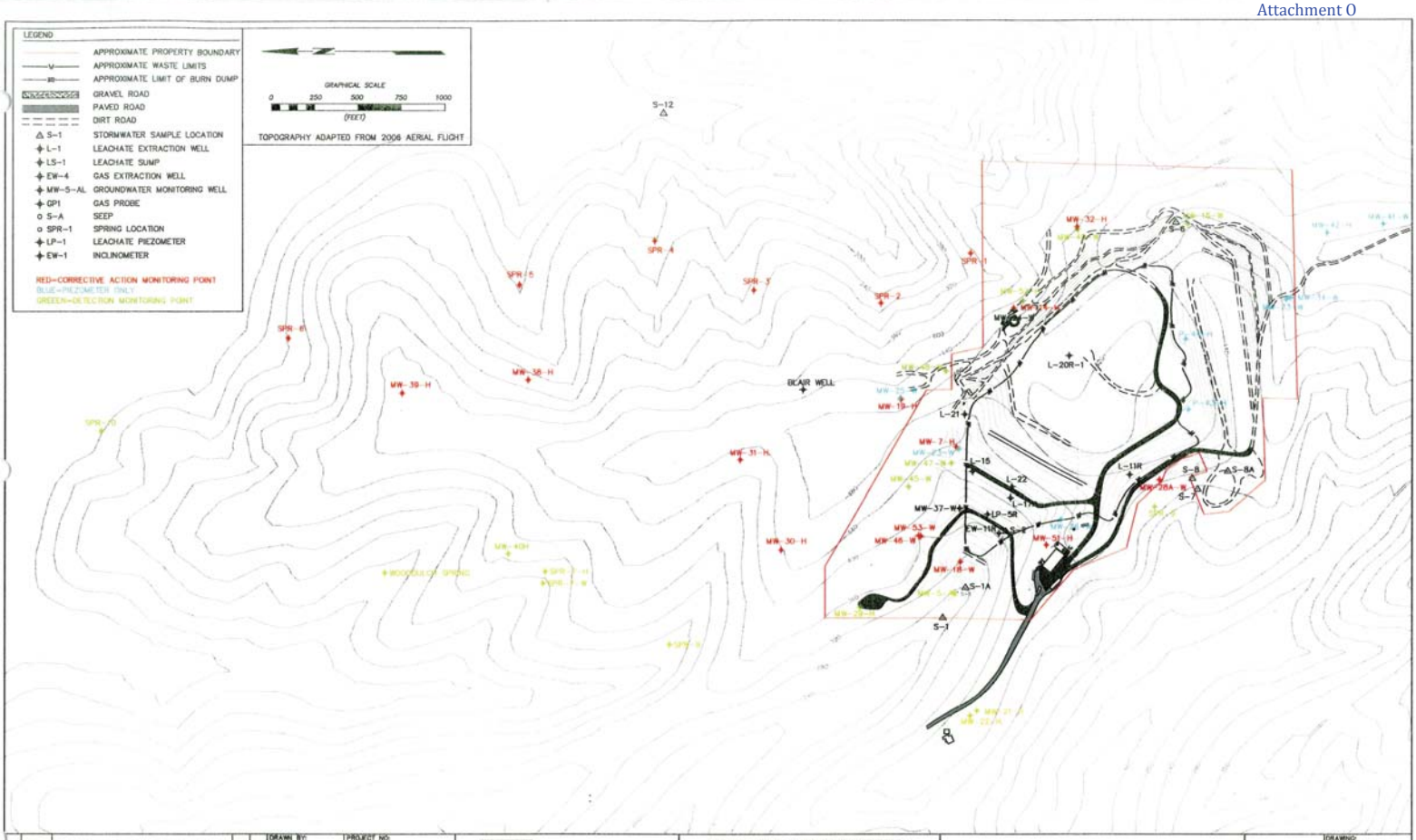
LAWRENCE & ASSOCIATES
ENGINEERING GEOLOGY
3590 IRON CT.
SHASTA LAKE, CA 96019
(530) 275-4800
(530) 275-7970 FAX

CUMMINGS ROAD LANDFILL

HUMBOLDT WASTE MANAGEMENT AUTHORITY
1059 WEST HAWTHORNE STREET
EUREKA, CA 96001

LANDFILL
CROSS SECTIONS
B-B'

DRAWING: J-6
SHEET: OF
REVISION NO: REVISION 0
DATE: 7-8-09



NO.	DATE	REVISIONS	BY	CHK

DRAWN BY: D. ZAITZ
PROJECT NO: 9085.00
ENGINEER: C. COLES
SCALE: 1"=250'
CHECKED BY:
APPROVED BY:
DATE:
DATE:

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ENGINEERING GEOLOGY
3590 IRON CT.
SHASTA LAKE, CA 96019
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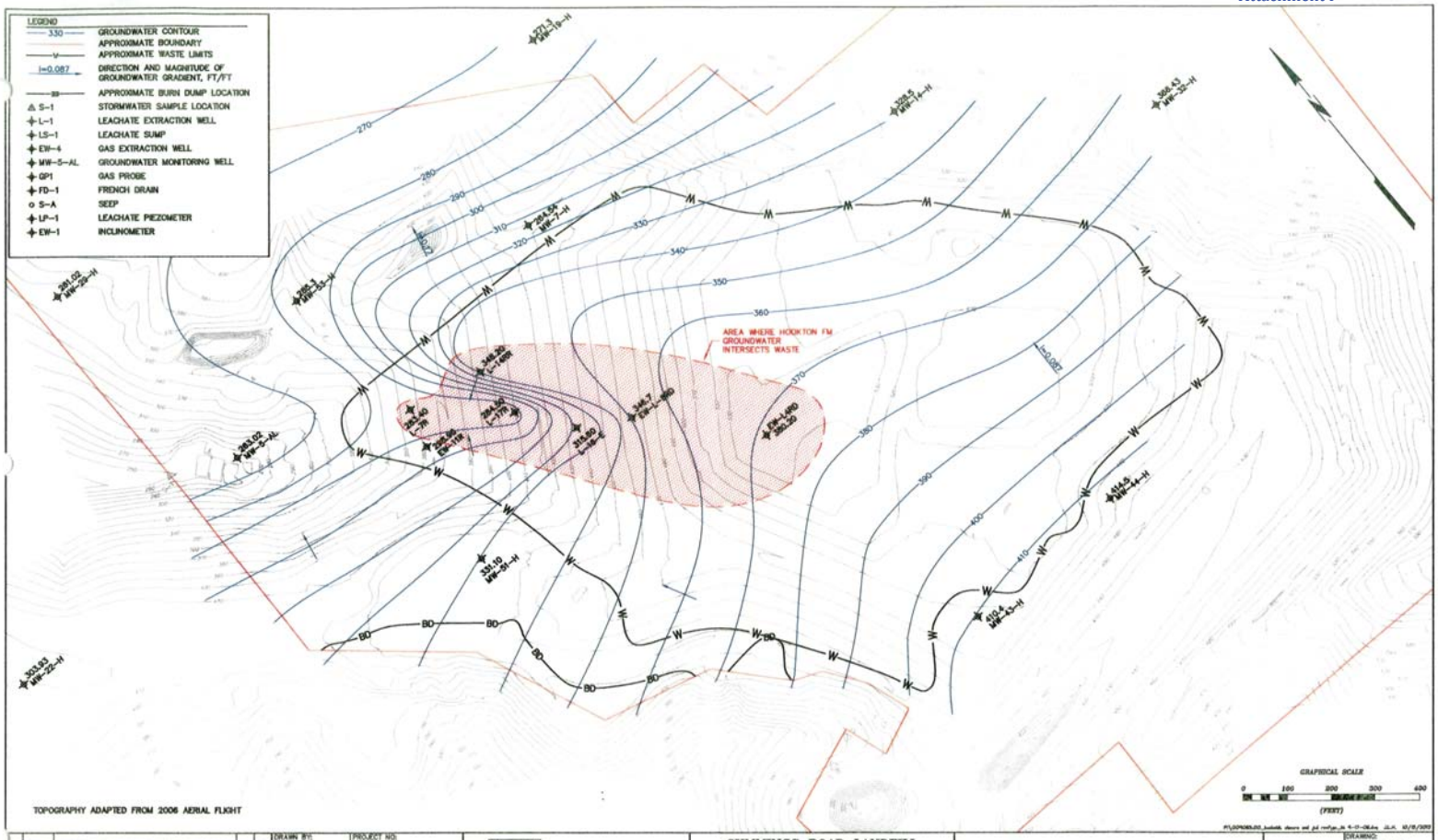
(530) 275-7970 FAX

CUMMINGS ROAD LANDFILL

HUMBOLDT WASTE MANAGEMENT AUTHORITY
1059 WEST HAWTHORNE STREET
EUREKA, CA 96001

GROUNDWATER, SPRING, SURFACE WATER, & LEACHATE MONITORING POINTS

DRAWING: J-2
SHEET: OF
REVISION NO: REVISION 0
DATE: 11-3-08



NO.	DATE	REVISIONS	BY	CHK

DRAWN BY: D. ZAITZ	PROJECT NO: 8083.00
ENGINEER:	SCALE: AS SHOWN
CHECKED BY: B. LAMPLEY	APPROVED BY:
DATE:	DATE:

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3590 IRON CT. SHASTA LAKE, CA 96019
(530) 275-4800
(530) 275-7970 FAX

CUMMINGS ROAD LANDFILL

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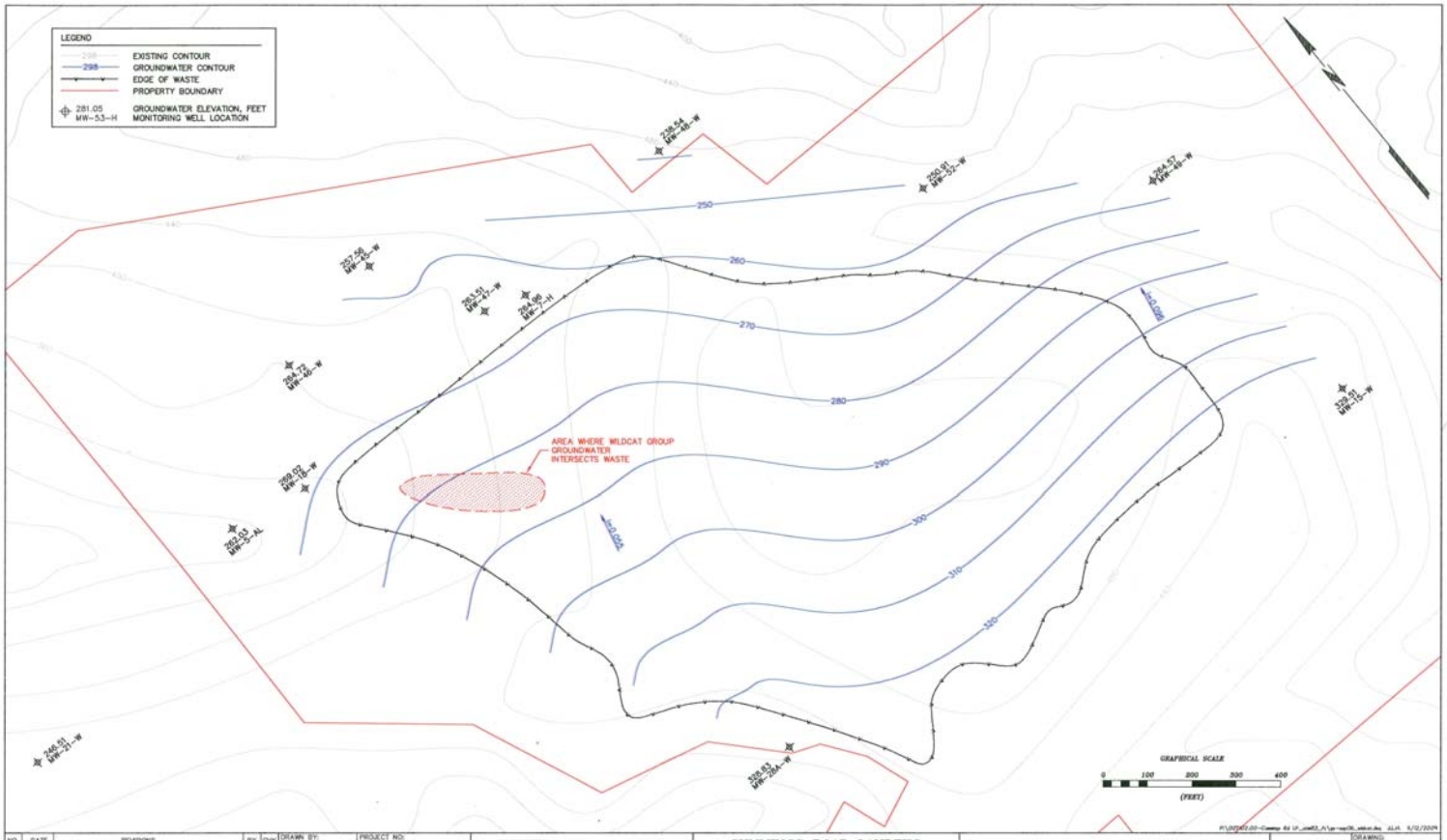
1059 WEST HAWTHORNE STREET
EUREKA, CA 96001

GROUNDWATER CONTOURS ON 9-17-2006 HOOKTON FORMATION

DRAWING: J-11
SHEET: OF
REVISION NO: REVISION 0
DATE: 7-16-09



NO.	DATE	REVISIONS	BY	CHK

DRAWN BY: A. HOLDEN
ENGINEER: G. COLES
CHECKED BY:
DATE: 10/20/2009
PROJECT NO: 007102.00
SCALE: 1"=100'
APPROVED BY:
DATE:

LAWRENCE & ASSOCIATES ENGINEERS & GEOLOGISTS
3590 IRON COURT SHASTA LAKE, CA 96019
(530) 275-4800
(530) 275-7970 FAX

CUMMINGS ROAD LANDFILL

HUMBOLT WASTE MANAGEMENT AUTHORITY
1059 WEST HAWTHORNE STREET
EUREKA, CA 96001

GROUNDWATER CONTOURS ON 9-17-2006 WILDCAT GROUP

DRAWING: J-12
SHEET: 7 OF 7
REVISION NO: REVISION 0
DATE: 10/20/2009