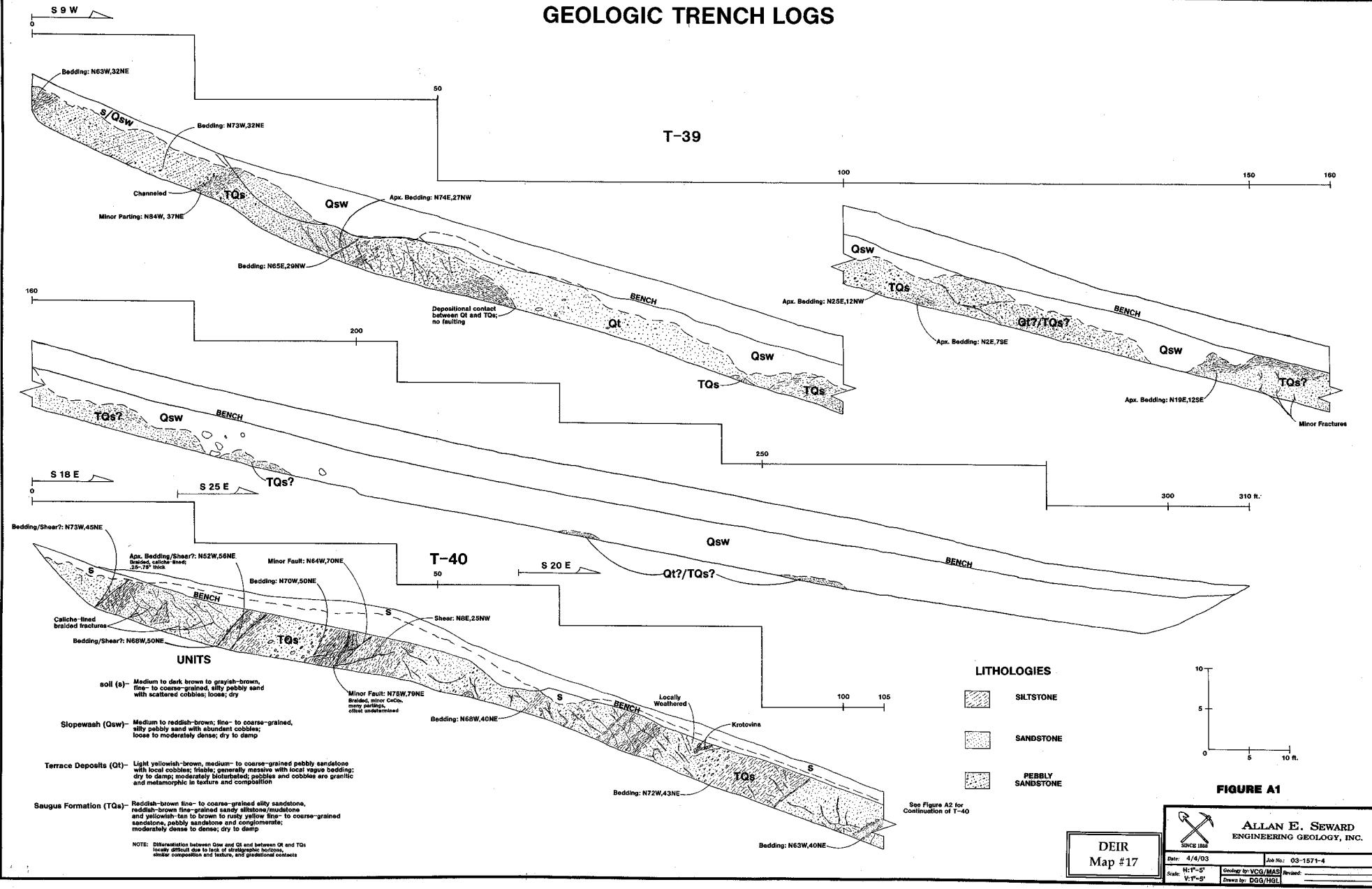


GEOLOGIC TRENCH LOGS

T-39

T-40



- UNITS**
- soil (s) - Medium to dark brown to grayish-brown, fine- to coarse-grained, silty pebbly sand with scattered cobbles; loose; dry
 - Slopewash (Qsw) - Medium to reddish-brown; fine- to coarse-grained, silty pebbly sand with abundant cobbles; loose to moderately dense; dry to damp
 - Terrace Deposits (Qt) - Light yellowish-brown; medium- to coarse-grained pebbly sandstone with local cobbles; friable; generally massive with local vague bedding; dry to damp; moderately bioturbated; pebbles and cobbles are granitic and metamorphic in texture and composition
 - Saugus Formation (TQs) - Reddish-brown fine- to coarse-grained silty sandstone, reddish-brown fine-grained sandy siltstone/mudstone and yellowish-tan to brown to rusty yellow fine- to coarse-grained sandstone, pebbly sandstone and conglomerate; moderately dense to dense; dry to damp

NOTE: Differentiation between Qsw and Qt and between Qt and TQs locally difficult due to lack of stratigraphic horizons, similar composition and texture, and gradational contacts

- LITHOLOGIES**
- SILTSTONE
 - SANDSTONE
 - PEBBLY SANDSTONE

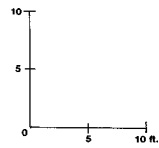


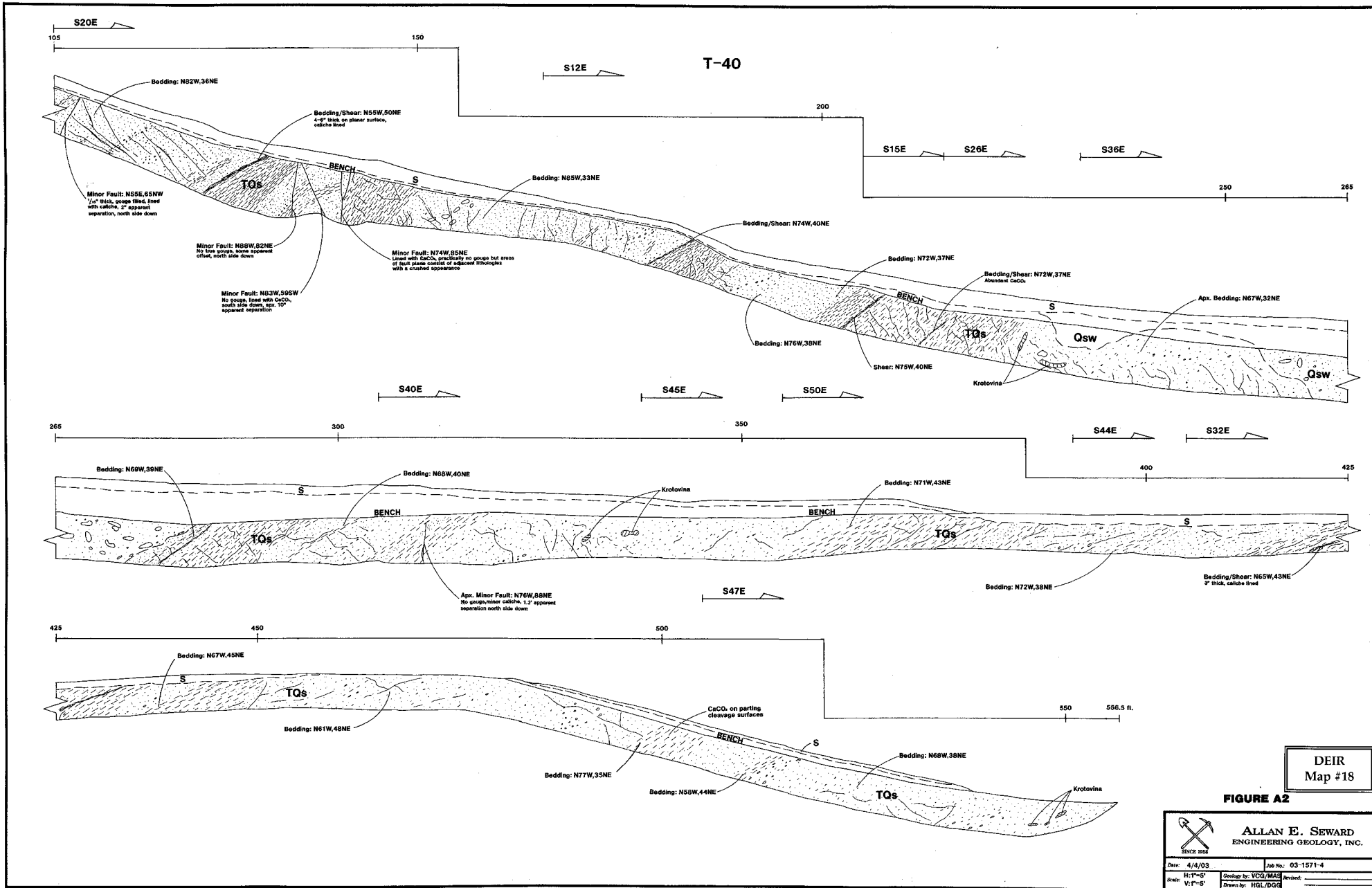
FIGURE A1

DEIR
Map #17

ALLAN E. SEWARD
ENGINEERING GEOLOGY, INC.

Date: 4/4/03 Job No.: 03-1571-4
Scale: H: 1"=5' Geology by: VCG/MAS
V: 1"=5' Drawn by: DGG/HGL

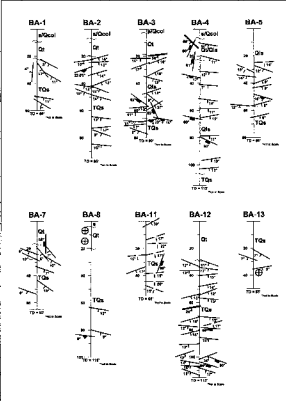
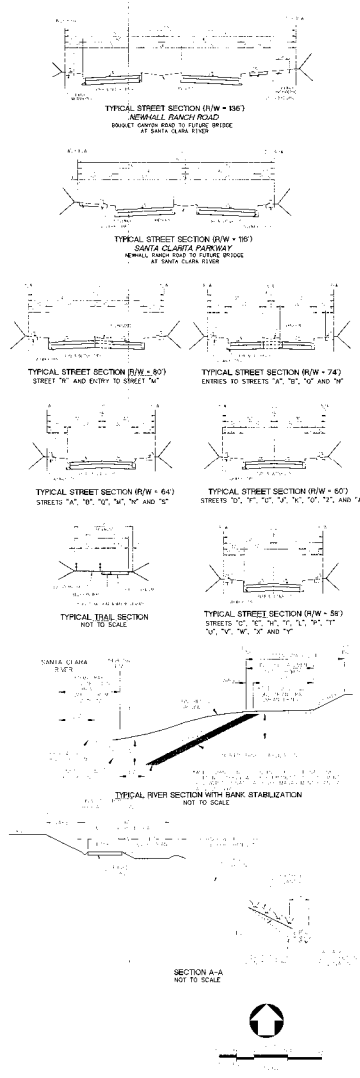
See Figure A2 for Continuation of T-40



DEIR
Map #18

FIGURE A2

		ALLAN E. SEWARD ENGINEERING GEOLOGY, INC.	
Date:	4/4/03	Job No.:	03-1571-4
Scale:	H: 1"=5' V: 1"=5'	Geology by:	VCG/MAS
		Drawn by:	HGL/DGC



SEE SHEET 4 of 4
FOR LEGEND

DEIR Map #21
ALLAN E. SEWARD
 ENGINEERING GEOLOGY, INC.
 Geologist and Geotechnical Consultant
 GEOLOGIC/GEO TECHNICAL MAP
 SHEET 3 OF 4

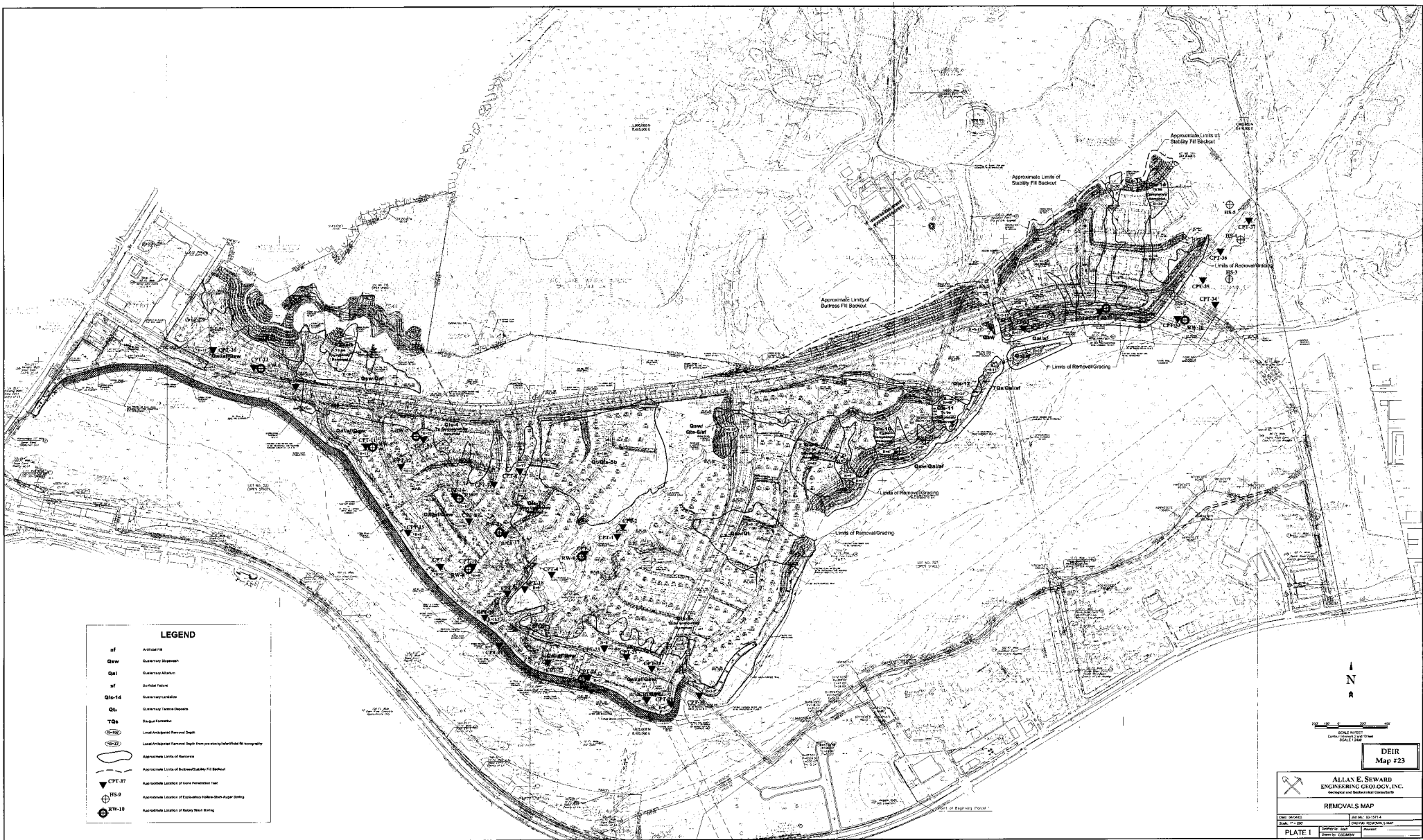
KEY MAP
 This key map shows the location of the sections shown on this map. The sections are identified by the letters BA-1 through BA-13 and Qls-1 through Qls-100. The key map is not to scale.

PSOMAS
 PROFESSIONAL SEAL
 JASON R. FERGUSON
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 LICENSE NO. 48888 DATE 04/16

NEWHALL LAND
 100% OWNERSHIP
 100% INTEREST

RIVER PARK VESTING TENTATIVE TRACT MAP
 SHEET 3 OF 4
 19A/0215-06
 3
 4

LOCATED IN THE CITY OF SANTA CLARA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA



LEGEND

- of Artificial Fill
- of Quarry Exposure
- of Quarry Alluvium
- of Surface Trench
- of Quarry Limitation
- of Quarry Trench Exposure
- of Trench Formation
- of Local Anticipated Removal Depth
- of Approximate Limits of Removals
- of Approximate Limits of Business/Sashby Fill Backout
- of Approximate Location of Core Penetration Test
- of Approximate Location of Explosive Hole/Steel Auger Safety
- of Approximate Location of Heavy Metal Boring



DEIR
Map #23

ALLAN E. SEWARD
ENGINEERING GEOLOGY, INC.
Geological and Geotechnical Consultants

REMOVALS MAP

DATE: 08/04/03 PROJECT: 03-0774
 DRAWN BY: [Name] CHECKED BY: [Name]
 SCALE: 1" = 200' SHEET NO.: 23 OF 23
 PLATE 1

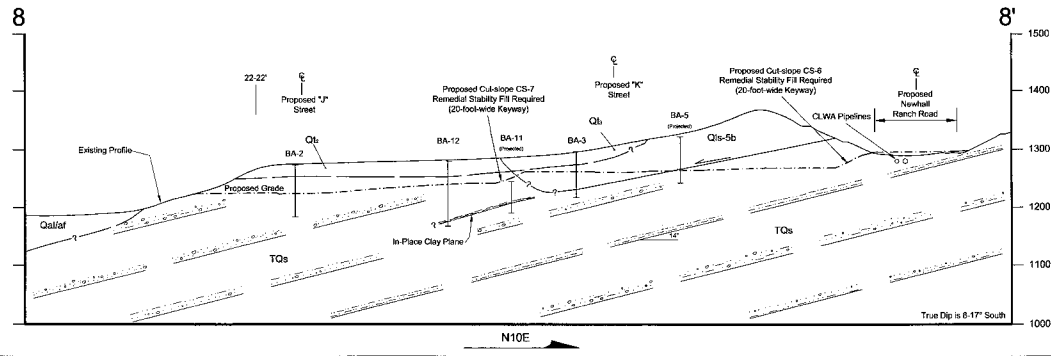
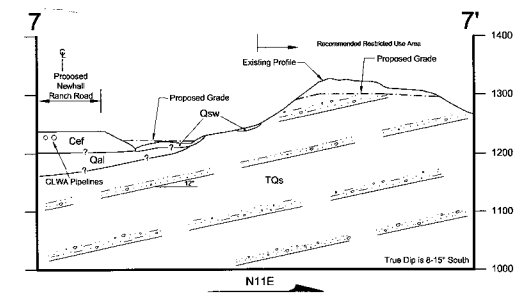
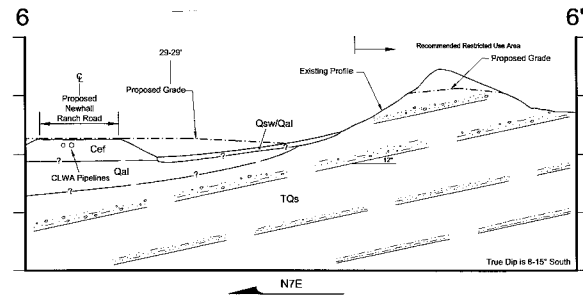
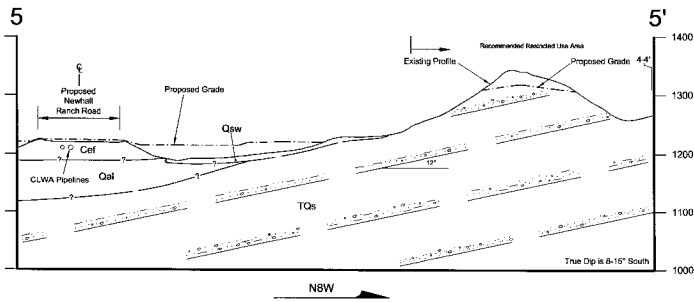
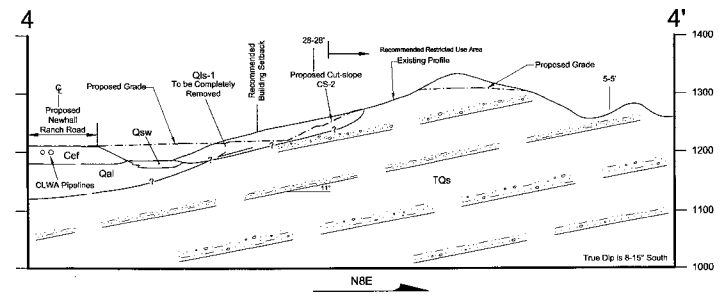
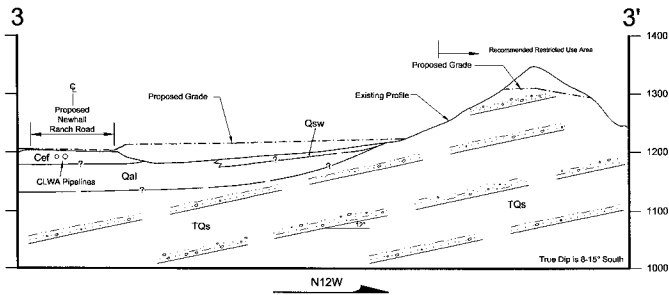
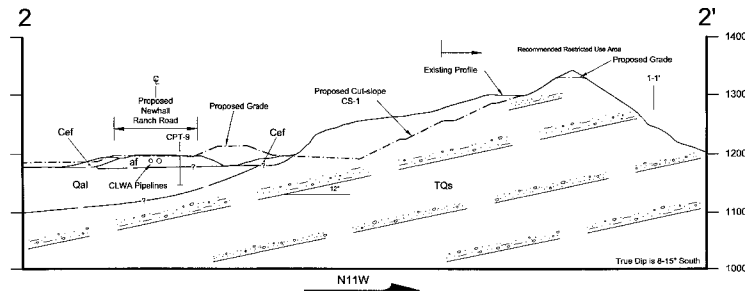
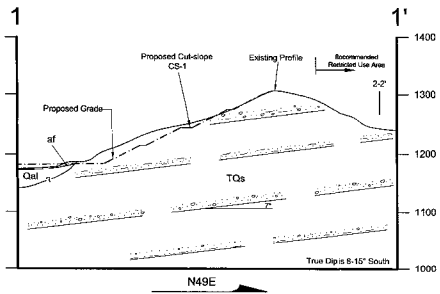


ALLAN E. SEWARD
ENGINEERING GEOLOGY, INC.
Geological and Geotechnical Consultants

CROSS SECTIONS 1-8

Date: 04/04/03	Job No.: 03-1671-4
Scale: 1" = 100' (Horizontal = Vertical)	CAD File: SECTIONS 1-8
Geology by: Staff	Revised:
Drawn by: GSD	

DEIR
Map #24

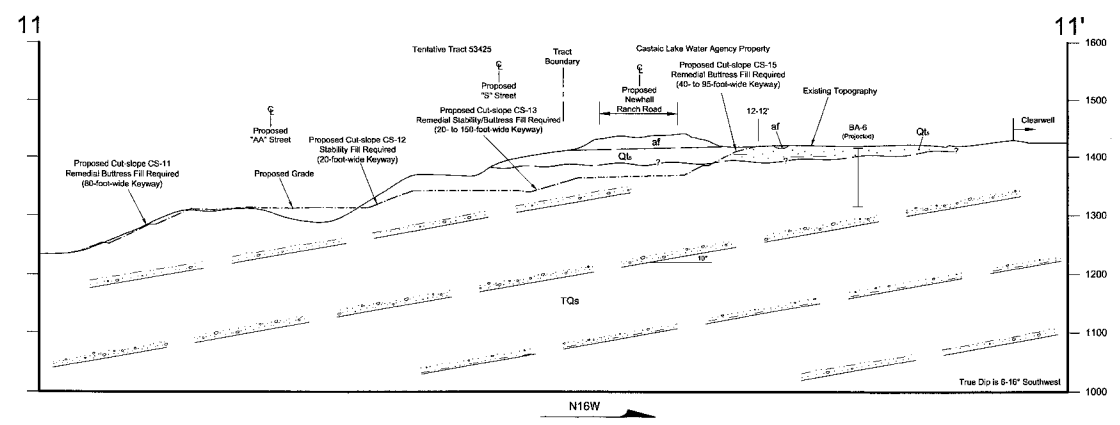
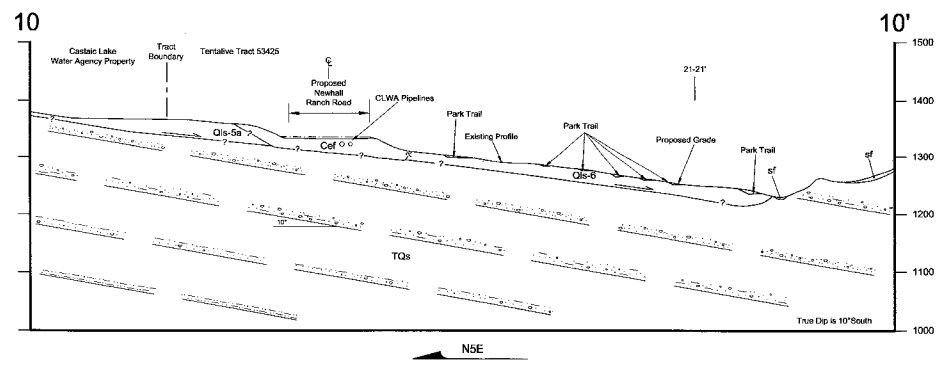
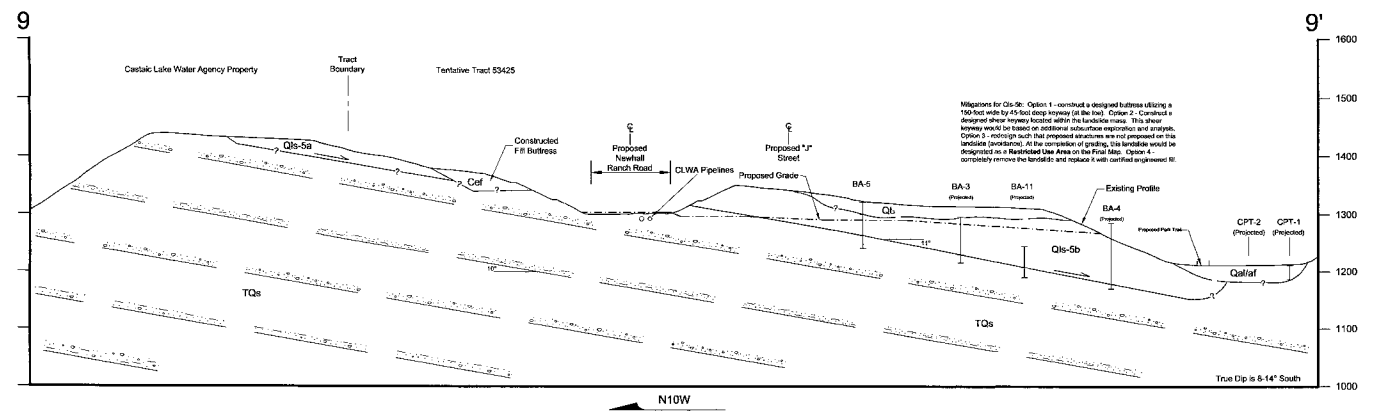


ALLAN E. SEWARD
ENGINEERING GEOLOGY, INC.
 Geological and Geotechnical Consultants

CROSS SECTIONS 9-11

Date: 04/04/08 Job No.: 03-1571-4
 Scale: 1" = 100' (Horizontal - Vertical) CAD File: SECTIONS 9-11
PLATE III Geology by: Staff Revised: _____
 Drawn by: GSD

DEIR
Map #25



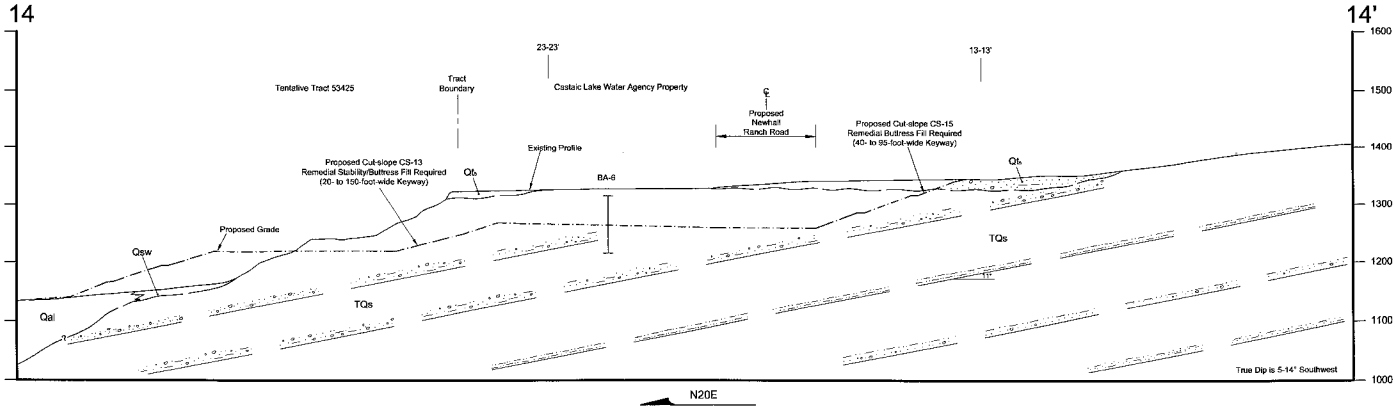
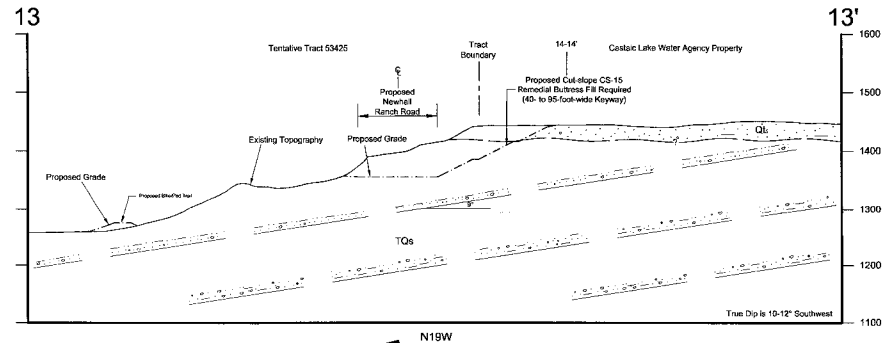
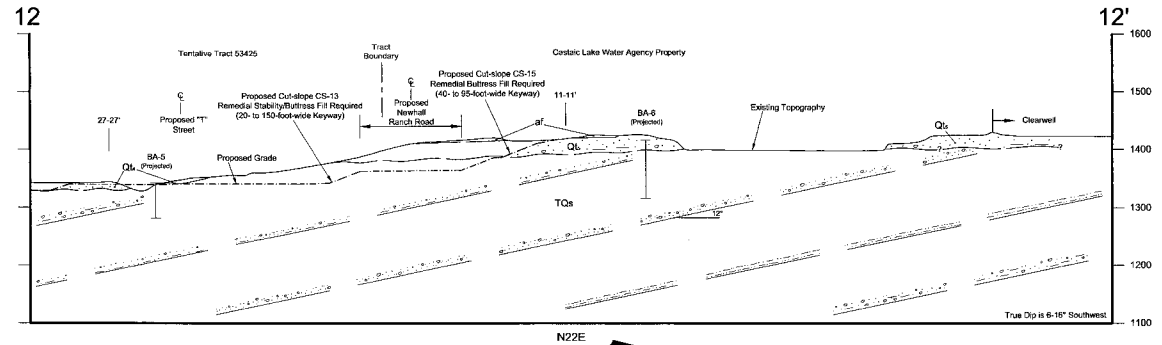


ALLAN E. SEWARD
ENGINEERING GEOLOGY, INC.
Geological and Geotechnical Consultants

CROSS SECTIONS 12-14

Date: 04/04/03	Job No.: 03-1071-4
Scale: 1" = 100' (Horizontal & Vertical)	CAD File: SECTIONS 12-14
Geology by: Staff	Revised:
Drawn by: GSD	

DEIR
Map #26





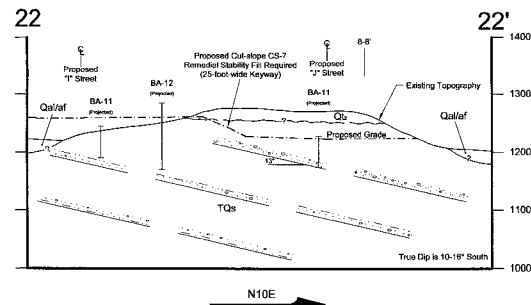
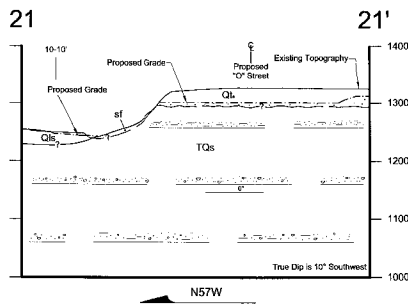
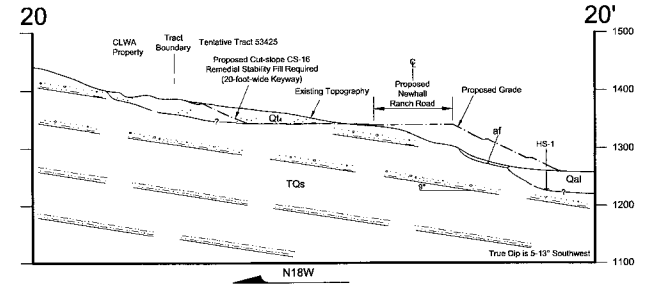
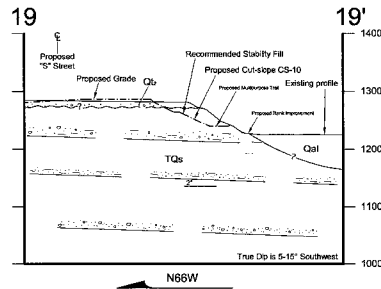
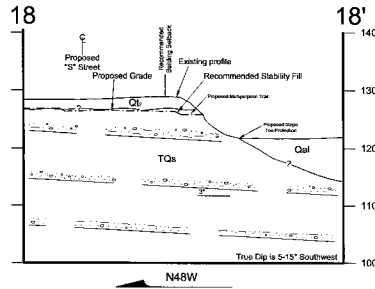
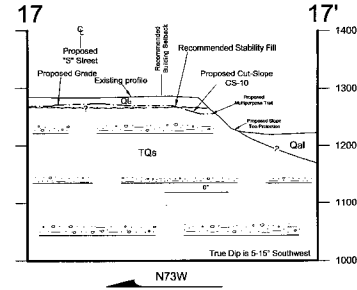
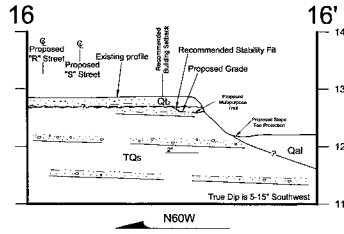
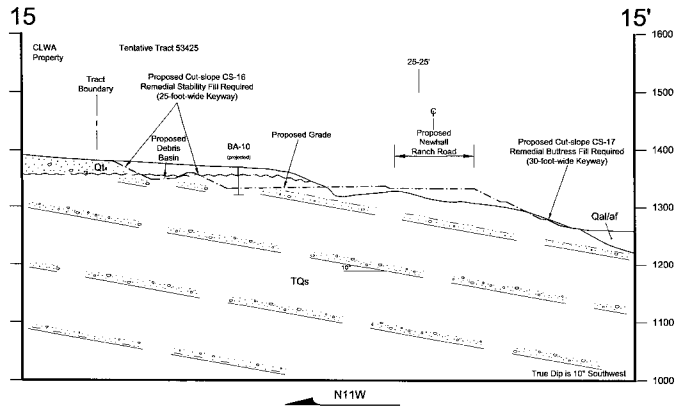
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ENGINEERING GEOLOGY, INC.
Geological and Geotechnical Consultants

CROSS SECTIONS 15-22

Date: 04/04/03	Job No.: 03-1571-4
Scale: 1" = 100' (Horizontal = Vertical)	CAD File: SECTIONS 15-22
Geology by: Staff	Revised:
Drawn by: GSD	

PLATE V

DEIR
Map #27





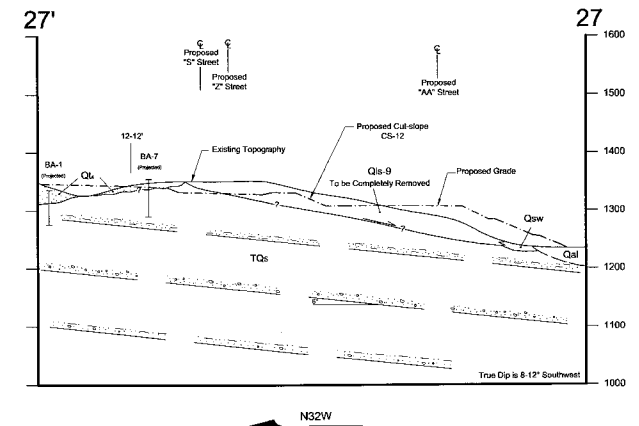
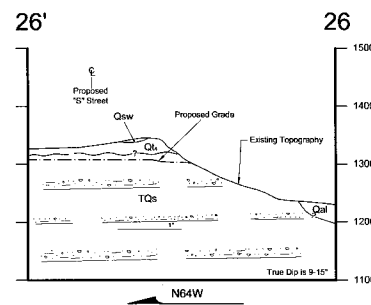
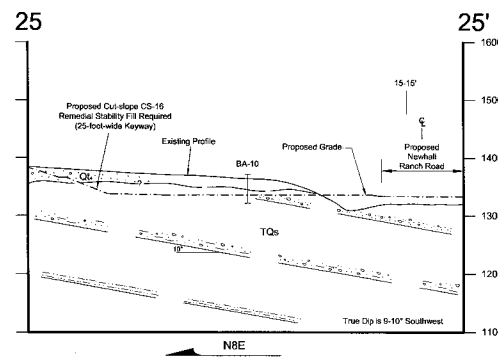
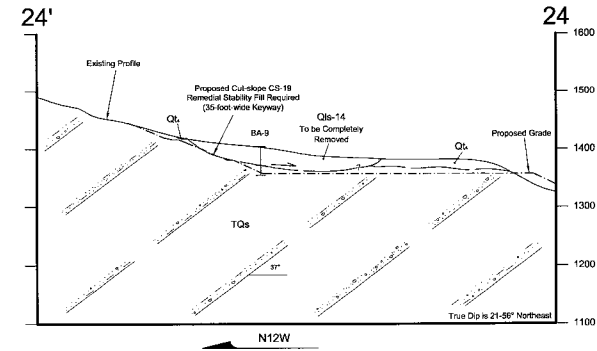
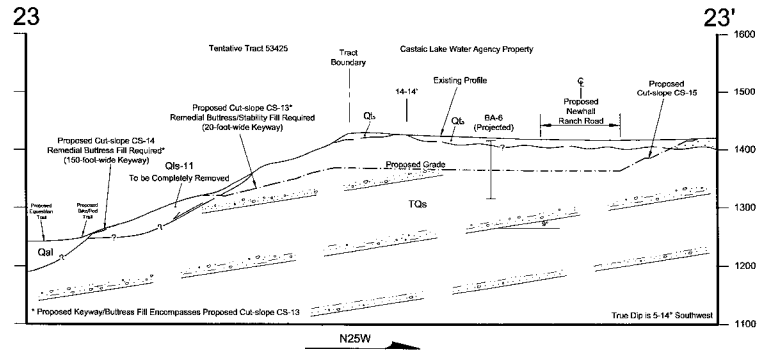
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Geological and Geotechnical Consultants

CROSS SECTIONS 23-27

Date: 04/04/03	Job No.: 03-1671-4
Scale: 1" = 100' (Horizontal = Vertical)	CAD File: SECTIONS 23-27
Geology by: Staff	Revised:
Drawn by: GSD	

PLATE VI

DEIR
Map #28





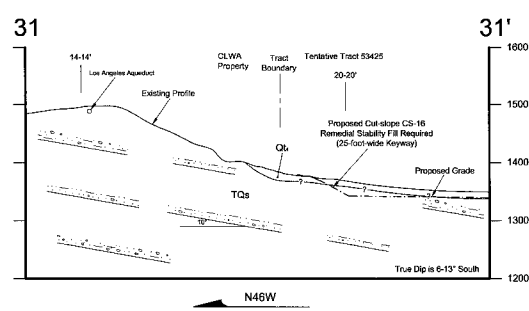
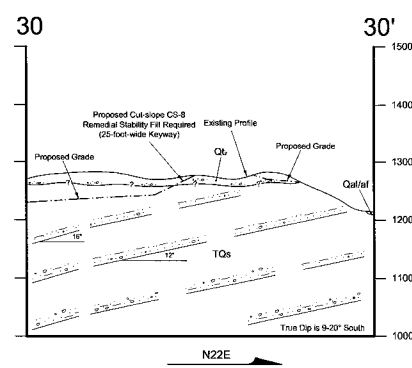
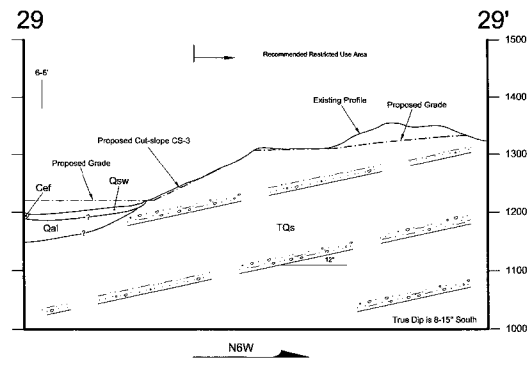
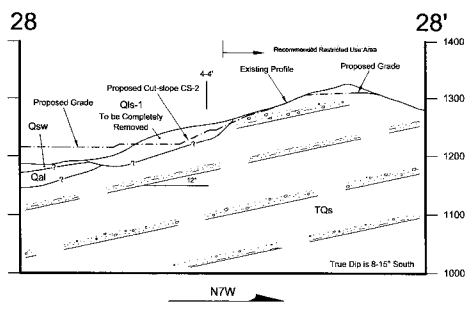
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Geological and Geotechnical Consultants

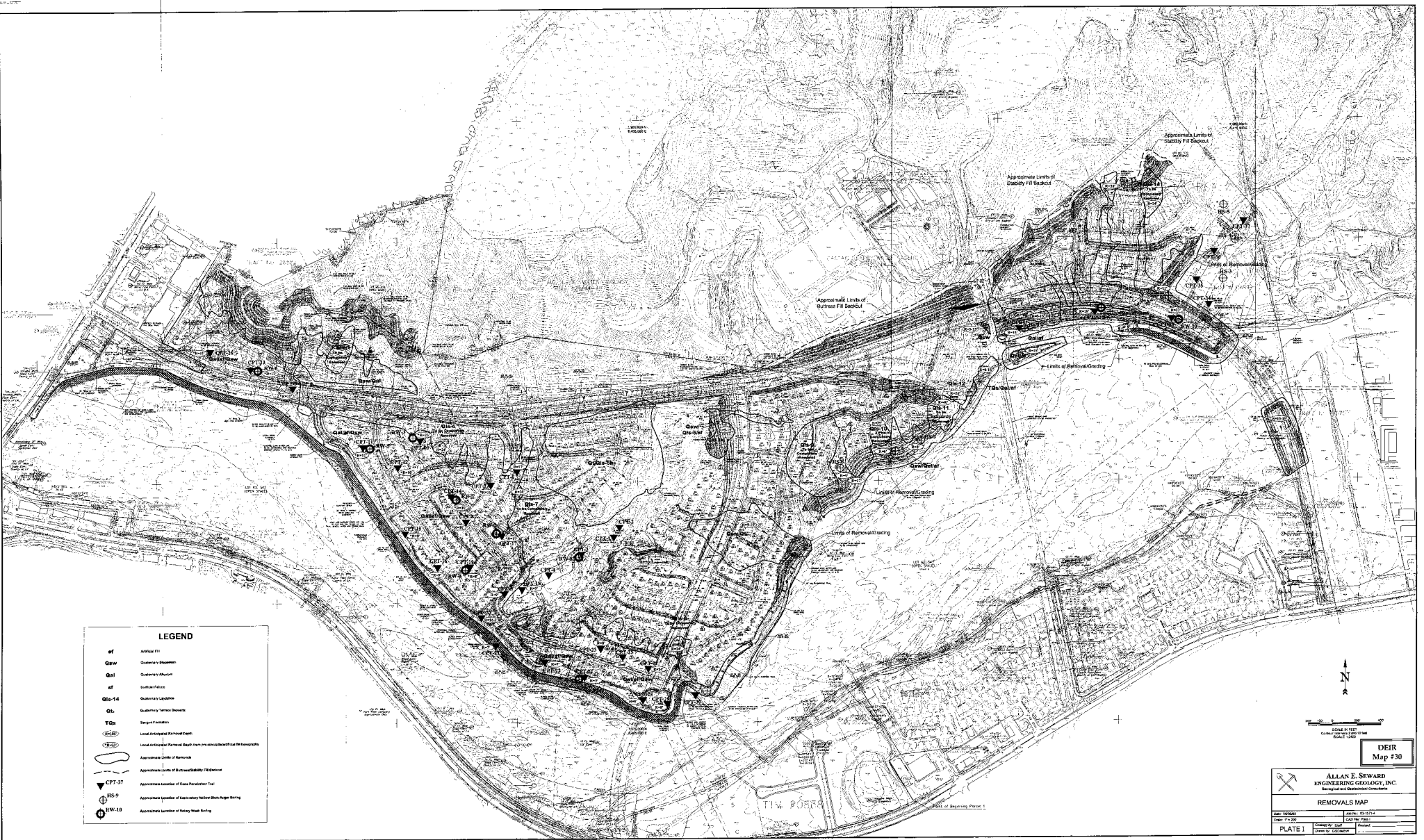
CROSS SECTIONS 28-31

Date: 04/04/03	Job No.: 03-1571-4
Scale: 1" = 100' (Horizontal - Vertical)	CAD File: SECTIONS 28-31
Geology by: Staff	Revised: _____
Drawn by: GSD	

PLATE VII

DEIR
Map #29





LEGEND

af	Artificial Fill
Qsw	Quaternary Sandstone
Qal	Quaternary Alluvium
sf	Surface Facies
Qls-14	Quaternary Limestone
Qt	Quaternary Tertiary Deposits
TGs	Tertiary Limestone
(Symbol)	Local Anticipated Potential Earth
(Symbol)	Local Anticipated Potential Earth from pre-consolidated soil fit backcut
(Symbol)	Approximate Limits of Retention
(Symbol)	Approximate Limits of Retention/Storage Fit Backcut
(Symbol)	Approximate Location of Case Retention/Tier
(Symbol)	Approximate Location of Excavation Below-River-Angle Berms
(Symbol)	Approximate Location of Heavy Truck Berms

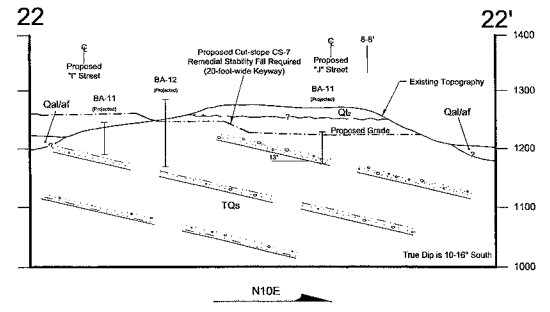
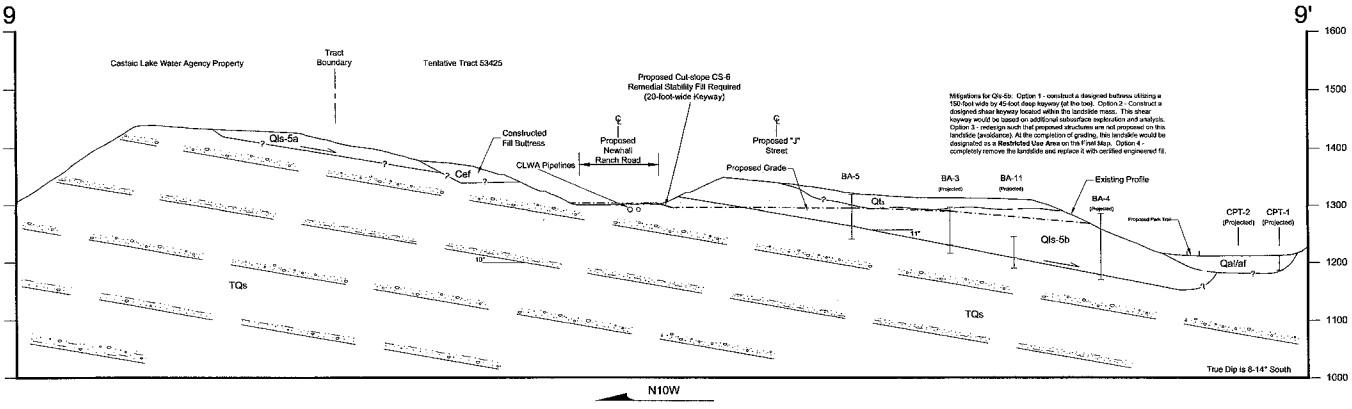
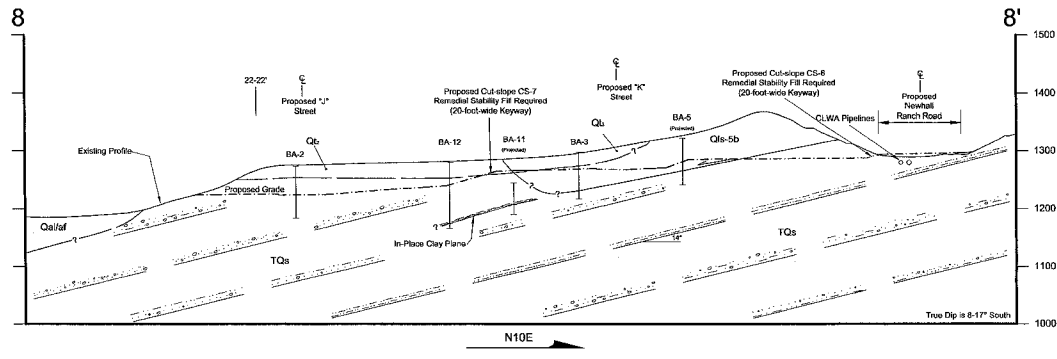
SCALE IN FEET
 1" = 100'
 1" = 200'
 1" = 400'

DEIR
 Map #30

ALLAN E. SEWARD
 ENGINEERING GEOLOGY, INC.
 Geological and Geotechnical Consulting

REMOVALS MAP

DATE: 08/20/14	DATE: 08/20/14
DRAWN: J. J. JOHNSON	CHECKED: J. J. JOHNSON
PLATE 1	DATE: 08/20/14



DEIR
Map #31

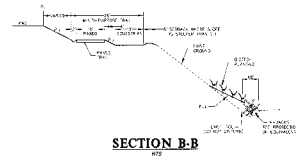
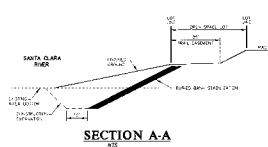
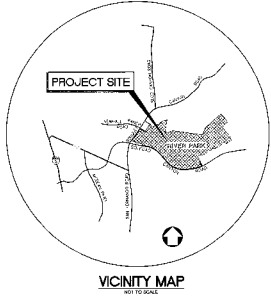
ALLAN E. SEWARD
ENGINEERING GEOLOGY, INC.
Geological and Geotechnical Consultants

Revised Cross Sections
8-8', 9-9', 22-22'

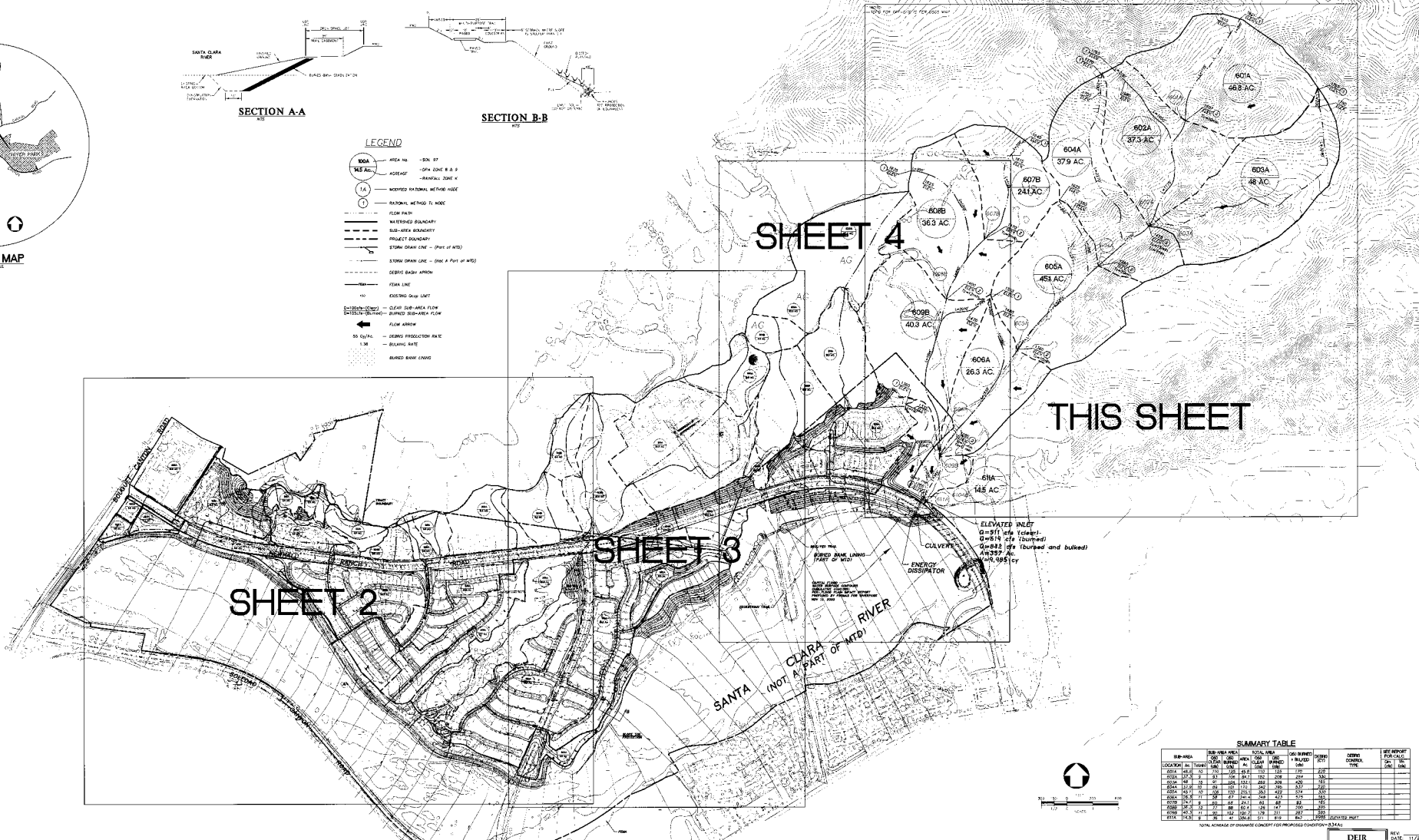
Date: 06/30/03	Job No.: 03-1571-4
Scale: 1" = 100'	CAD File: Plate II
Geology By: Staff	Revised:
Drawn By: CSD/MBW	

PLATE II

THIS DRAINAGE CONCEPT APPROVAL
 DOES NOT CONSTITUTE AN ENDORSEMENT
 OF THE PROJECT OR THE QUALITY OF THE
 WORK BY THE SANITATION DISTRICT.



- LEGEND**
- 600A AREA NO. - SUB. 07
 - ME AC. ACREAGE - OPA ZONE B & S
 - TA AERIAL ZONE K
 - MODIFIED NATIONAL METHOD HIDE
 - RATIONAL METHOD 1.5 HIDE
 - FLOW PATH
 - WATERING BOUNDARY
 - SUB-AREA BOUNDARY
 - PROJECT BOUNDARY
 - STORM DRAIN CULVERT - (Part of MTD)
 - STORM DRAIN LINE - (See A Part of MTD)
 - SEWER BASIN ANCHOR
 - FEAR LINE
 - EXISTING CURB LIFT
 - NO
 - CLEAR SUB-AREA FLOW
 - BURNED SUB-AREA FLOW
 - FLOW ANCHOR
 - 50 CFS - DESIGN PRODUCTION RATE
 - 1.5 M - BURNING RATE
 - BURNED BANK CROSSING



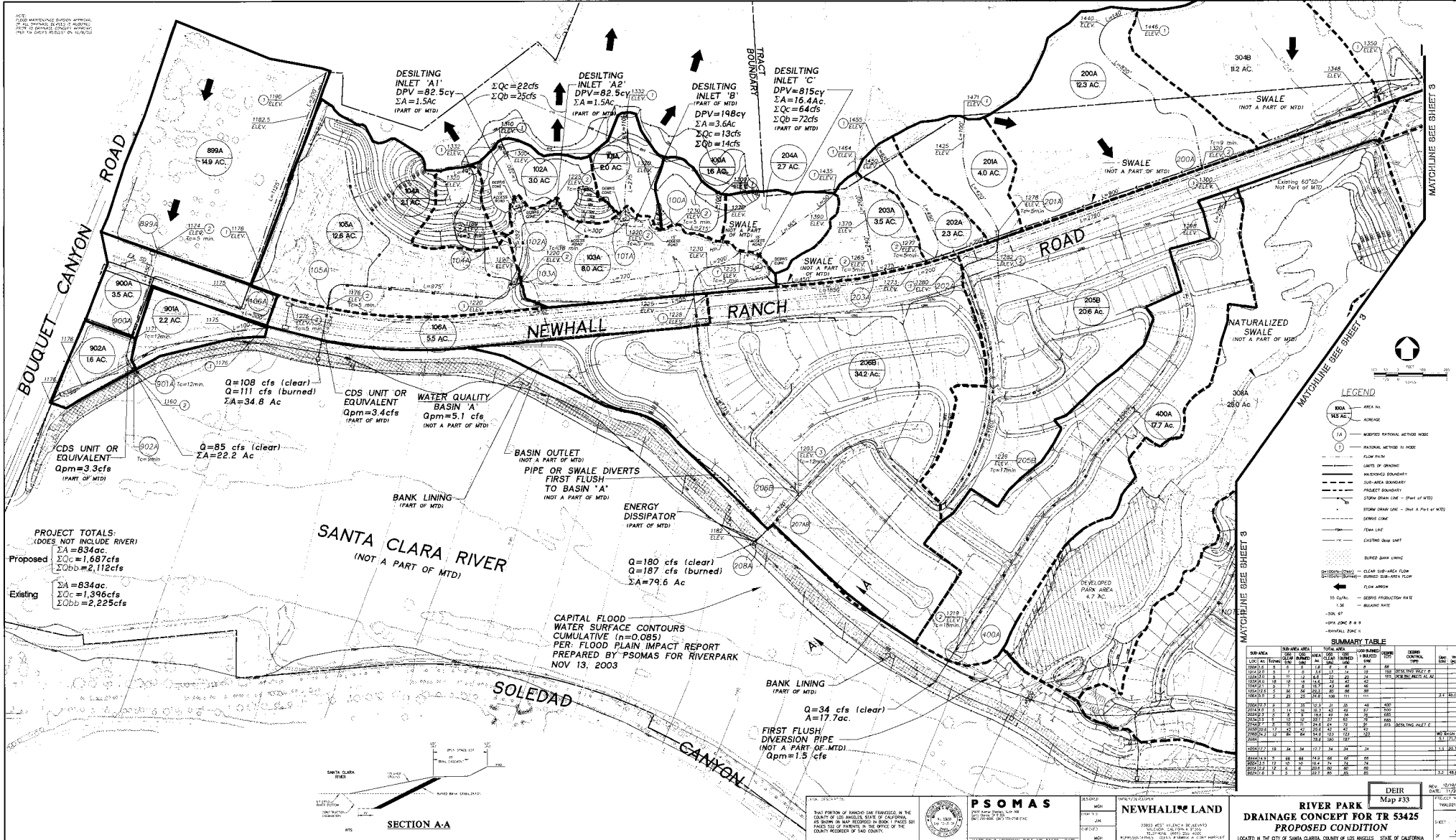
SUMMARY TABLE

Sub-Area	Sub-Area Area (AC)	Sub-Area Flow (CFS)	Sub-Area Flow (MGD)	Sub-Area Flow (MGD)	Sub-Area Flow (MGD)	Sub-Area Flow (MGD)	Sub-Area Flow (MGD)	Sub-Area Flow (MGD)	Sub-Area Flow (MGD)	Sub-Area Flow (MGD)
600A	488.2	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600B	379.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600C	241.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600D	363.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600E	403.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600F	263.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600G	453.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600H	445.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600I	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600J	60.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600K	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600L	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600M	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600N	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600O	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600P	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600Q	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600R	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600S	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600T	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600U	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600V	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600W	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600X	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600Y	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
600Z	48.0	10.0	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043

DATE, EXISTENCE: THAT PORTION OF SANDIS SAN FRANCISCO, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS SHOWN ON MAP RECORDED IN BOOK 1 PAGE 55, HAS BEEN RECONSTRUCTED BY THE CITY OF LOS ANGELES.	PSOMAS 800 W. CHERRY ST. #10 LOS ANGELES, CA 90010 (213) 489-1100	DESIGNED: JUN.	EMPLOYER/DEVELOPER: NEWHALL LAND	RIVER PARK DRAINAGE CONCEPT FOR TR 53425 PROPOSED CONDITION	DEIR Map 432	REV. 11/24/05 PROJECT NO. EVAL-0213.06
	15814 WEST WATKINS ROAD, TOWN OF CHRYSTAL, CALIFORNIA 91305 (626) 441-2100	CHECKED: JUN.	15814 WEST WATKINS ROAD, TOWN OF CHRYSTAL, CALIFORNIA 91305 (626) 441-2100	LOCATED IN THE CITY OF SANTA CLARITA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA.	SHEET 1 OF 5	
	WITHDRAWN BY REGULAR R.C.E. NO. 55633 DATE:	DRAWN: WBY	APPROVED BY:	APPROVED BY:	APPROVED BY:	

11/24/05
 EVAL-0213.06
 SHEET 1 OF 5

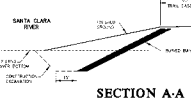
AS PER MAINTENANCE DIVISION APPROVAL
 THE EXISTING DRAINAGE SYSTEM SHALL BE MAINTAINED
 AND THE DRAINAGE SYSTEM SHALL BE MAINTAINED
 AND THE DRAINAGE SYSTEM SHALL BE MAINTAINED



PROJECT TOTALS:
 (DOES NOT INCLUDE RIVER)
 $\Sigma A = 834 \text{ ac}$
 $\Sigma Q_c = 1,687 \text{ cfs}$
 $\Sigma Q_{bb} = 2,112 \text{ cfs}$
Existing
 $\Sigma A = 834 \text{ ac}$
 $\Sigma Q_c = 1,396 \text{ cfs}$
 $\Sigma Q_{bb} = 2,225 \text{ cfs}$

SANTA CLARA RIVER
 (NOT A PART OF MTD)
 $Q = 108 \text{ cfs (clear)}$
 $Q = 111 \text{ cfs (burned)}$
 $\Sigma A = 34.8 \text{ ac}$

CAPITAL FLOOD CONTOURS
 WATER SURFACE CONTOURS
 CUMULATIVE ($n=0.085$)
 PER: FLOOD PLAIN IMPACT REPORT
 PREPARED BY: PSOMAS FOR RIVERPARK
 NOV 13, 2003



- LEGEND**
- BOA 145 AC
 - AREA IN ACRES
 - MATCHED PARTIAL FLOOD WEDGE
 - NATURAL FLOOD WEDGE
 - FLOW PATH
 - LIMITS OF DRAINAGE
 - MATCHLINE BOUNDARY
 - SUB-AREA BOUNDARY
 - PROJECT BOUNDARY
 - STUDY DRAIN LINE - (Part of MTD)
 - EXISTING SWALE
 - FLOW LINE
 - EXISTING SWALE
 - BURIED BANK LINING
 - DEVELOPED PARK AREA
 - DEVELOPED SUB-AREA FLOW
 - DEVELOPED SUB-AREA FLOW
 - FLOW AREA
 - DESIGN PRODUCTION RATE
 - DESIGN RATE
 - DESIGN ZONE # 1
 - DESIGN ZONE # 2
 - DESIGN ZONE # 3

SUMMARY TABLE

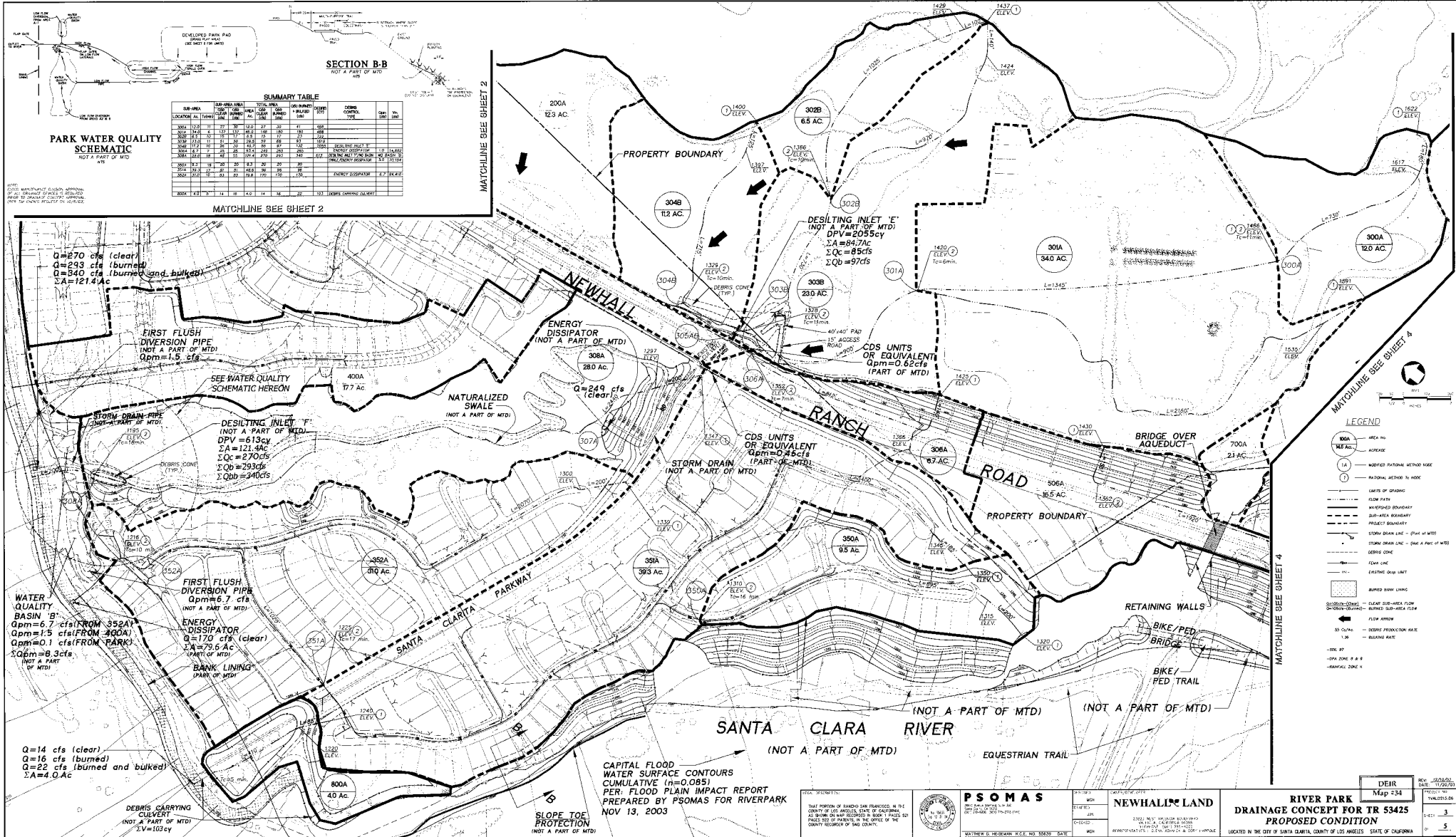
SUB-AREA	SUB-AREA AREA	TOTAL AREA	DESIGN RATE	DESIGN PRODUCTION RATE	DESIGN ZONE	DESIGN ZONE #	DESIGN ZONE #
BOA	145	145	1,396	1,396	1	1	1
BOA	145	145	1,396	1,396	1	1	1
BOA	145	145	1,396	1,396	1	1	1
BOA	145	145	1,396	1,396	1	1	1
BOA	145	145	1,396	1,396	1	1	1
BOA	145	145	1,396	1,396	1	1	1
BOA	145	145	1,396	1,396	1	1	1
BOA	145	145	1,396	1,396	1	1	1
BOA	145	145	1,396	1,396	1	1	1
BOA	145	145	1,396	1,396	1	1	1

PSOMAS
 2903 WEST SILVER LAKE AVENUE
 WILSON, CALIFORNIA 95605
 (916) 261-1111 FAX: (916) 261-1112
 WWW.PSOMAS.COM

NEWHALL RANCH
 RIVER PARK
 DRAINAGE CONCEPT FOR TR 53425
 PROPOSED CONDITION

DEIR
 Map #33

DATE: 12/18/03
 DRAWN: 12/18/03
 CHECKED: 12/18/03
 SHEET: 2 OF 5



PARK WATER QUALITY SCHEMATIC
NOT A PART OF MTD

DATE: 11/11/03
SCALE: AS SHOWN
COURTESY: NEWHALL RANCH
DRAWN BY: PSOMAS
CHECKED BY: PSOMAS
APPROVED BY: PSOMAS
DATE OF REVISION: 11/11/03
PROJECT NO.: TR 53425
SHEET NO.: 3 OF 3

SUMMARY TABLE

SUB-AREA	APPROX. AREA (AC)	APPROX. PERCENT IMPERVIOUS	APPROX. CUMULATIVE IMPERVIOUS AREA (AC)	APPROX. CUMULATIVE VOLUME (CY)	APPROX. CUMULATIVE Q (CFS)	APPROX. CUMULATIVE Q (MGD)	APPROX. CUMULATIVE Q (MGD)	APPROX. CUMULATIVE Q (MGD)	APPROX. CUMULATIVE Q (MGD)
100A	10.0	10	10.0	10.0	10.0	10.0	10.0	10.0	10.0
101A	10.0	10	20.0	20.0	20.0	20.0	20.0	20.0	20.0
102A	10.0	10	30.0	30.0	30.0	30.0	30.0	30.0	30.0
103A	10.0	10	40.0	40.0	40.0	40.0	40.0	40.0	40.0
104A	10.0	10	50.0	50.0	50.0	50.0	50.0	50.0	50.0
105A	10.0	10	60.0	60.0	60.0	60.0	60.0	60.0	60.0
106A	10.0	10	70.0	70.0	70.0	70.0	70.0	70.0	70.0
107A	10.0	10	80.0	80.0	80.0	80.0	80.0	80.0	80.0
108A	10.0	10	90.0	90.0	90.0	90.0	90.0	90.0	90.0
109A	10.0	10	100.0	100.0	100.0	100.0	100.0	100.0	100.0
110A	10.0	10	110.0	110.0	110.0	110.0	110.0	110.0	110.0
111A	10.0	10	120.0	120.0	120.0	120.0	120.0	120.0	120.0
112A	10.0	10	130.0	130.0	130.0	130.0	130.0	130.0	130.0
113A	10.0	10	140.0	140.0	140.0	140.0	140.0	140.0	140.0
114A	10.0	10	150.0	150.0	150.0	150.0	150.0	150.0	150.0
115A	10.0	10	160.0	160.0	160.0	160.0	160.0	160.0	160.0
116A	10.0	10	170.0	170.0	170.0	170.0	170.0	170.0	170.0
117A	10.0	10	180.0	180.0	180.0	180.0	180.0	180.0	180.0
118A	10.0	10	190.0	190.0	190.0	190.0	190.0	190.0	190.0
119A	10.0	10	200.0	200.0	200.0	200.0	200.0	200.0	200.0
120A	10.0	10	210.0	210.0	210.0	210.0	210.0	210.0	210.0
121A	10.0	10	220.0	220.0	220.0	220.0	220.0	220.0	220.0
122A	10.0	10	230.0	230.0	230.0	230.0	230.0	230.0	230.0
123A	10.0	10	240.0	240.0	240.0	240.0	240.0	240.0	240.0
124A	10.0	10	250.0	250.0	250.0	250.0	250.0	250.0	250.0
125A	10.0	10	260.0	260.0	260.0	260.0	260.0	260.0	260.0
126A	10.0	10	270.0	270.0	270.0	270.0	270.0	270.0	270.0
127A	10.0	10	280.0	280.0	280.0	280.0	280.0	280.0	280.0
128A	10.0	10	290.0	290.0	290.0	290.0	290.0	290.0	290.0
129A	10.0	10	300.0	300.0	300.0	300.0	300.0	300.0	300.0
130A	10.0	10	310.0	310.0	310.0	310.0	310.0	310.0	310.0
131A	10.0	10	320.0	320.0	320.0	320.0	320.0	320.0	320.0
132A	10.0	10	330.0	330.0	330.0	330.0	330.0	330.0	330.0
133A	10.0	10	340.0	340.0	340.0	340.0	340.0	340.0	340.0
134A	10.0	10	350.0	350.0	350.0	350.0	350.0	350.0	350.0
135A	10.0	10	360.0	360.0	360.0	360.0	360.0	360.0	360.0
136A	10.0	10	370.0	370.0	370.0	370.0	370.0	370.0	370.0
137A	10.0	10	380.0	380.0	380.0	380.0	380.0	380.0	380.0
138A	10.0	10	390.0	390.0	390.0	390.0	390.0	390.0	390.0
139A	10.0	10	400.0	400.0	400.0	400.0	400.0	400.0	400.0
140A	10.0	10	410.0	410.0	410.0	410.0	410.0	410.0	410.0
141A	10.0	10	420.0	420.0	420.0	420.0	420.0	420.0	420.0
142A	10.0	10	430.0	430.0	430.0	430.0	430.0	430.0	430.0
143A	10.0	10	440.0	440.0	440.0	440.0	440.0	440.0	440.0
144A	10.0	10	450.0	450.0	450.0	450.0	450.0	450.0	450.0
145A	10.0	10	460.0	460.0	460.0	460.0	460.0	460.0	460.0
146A	10.0	10	470.0	470.0	470.0	470.0	470.0	470.0	470.0
147A	10.0	10	480.0	480.0	480.0	480.0	480.0	480.0	480.0
148A	10.0	10	490.0	490.0	490.0	490.0	490.0	490.0	490.0
149A	10.0	10	500.0	500.0	500.0	500.0	500.0	500.0	500.0
150A	10.0	10	510.0	510.0	510.0	510.0	510.0	510.0	510.0

MATCHLINE SEE SHEET 2

MATCHLINE SEE SHEET 2

MATCHLINE SEE SHEET 4

LEGEND

(100A)	AREA NO.
(10)	AREA NO. (RATIONAL METHOD)
(M)	MANHOLE
(1)	1" RAINFALL HYDROLOGICAL METHOD
---	SECTION B-B (NOT A PART OF MTD)
---	SECTION C-C (NOT A PART OF MTD)
---	SECTION D-D (NOT A PART OF MTD)
---	SECTION E-E (NOT A PART OF MTD)
---	SECTION F-F (NOT A PART OF MTD)
---	SECTION G-G (NOT A PART OF MTD)
---	SECTION H-H (NOT A PART OF MTD)
---	SECTION I-I (NOT A PART OF MTD)
---	SECTION J-J (NOT A PART OF MTD)
---	SECTION K-K (NOT A PART OF MTD)
---	SECTION L-L (NOT A PART OF MTD)
---	SECTION M-M (NOT A PART OF MTD)
---	SECTION N-N (NOT A PART OF MTD)
---	SECTION O-O (NOT A PART OF MTD)
---	SECTION P-P (NOT A PART OF MTD)
---	SECTION Q-Q (NOT A PART OF MTD)
---	SECTION R-R (NOT A PART OF MTD)
---	SECTION S-S (NOT A PART OF MTD)
---	SECTION T-T (NOT A PART OF MTD)
---	SECTION U-U (NOT A PART OF MTD)
---	SECTION V-V (NOT A PART OF MTD)
---	SECTION W-W (NOT A PART OF MTD)
---	SECTION X-X (NOT A PART OF MTD)
---	SECTION Y-Y (NOT A PART OF MTD)
---	SECTION Z-Z (NOT A PART OF MTD)

DERRIS CARRYING CULVERT (NOT A PART OF MTD)
ΣV=103cy

SLOPE TO PROTECTION (NOT A PART OF MTD)

CAPITAL FLOOD WATER SURFACE CONTOURS CUMULATIVE (R=0.085) PER: FLOOD PLAIN IMPACT REPORT PREPARED BY PSOMAS FOR RIVERPARK NOV 13, 2003

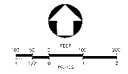
PSOMAS
15251 BELT ROAD, SUITE 100, DUBLIN, CA 94568
TEL: 925-885-2000 FAX: 925-885-2001
WWW.PSOMAS.COM
DATE: 11/11/03
SCALE: AS SHOWN
PROJECT NO.: TR 53425
SHEET NO.: 3 OF 3

PSOMAS
15251 BELT ROAD, SUITE 100, DUBLIN, CA 94568
TEL: 925-885-2000 FAX: 925-885-2001
WWW.PSOMAS.COM
DATE: 11/11/03
SCALE: AS SHOWN
PROJECT NO.: TR 53425
SHEET NO.: 3 OF 3

RIVER PARK DRAINAGE CONCEPT FOR TR 53425 PROPOSED CONDITION
DEIR Map #34
PROJECT NO.: TR 53425
SHEET NO.: 3 OF 3
DATE: 11/11/03

NOT TO SCALE
UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SPECIFIED
DATE: 11/20/03
DRAWN BY: J. GARDNER
CHECKED BY: M. BROWN

OFF-SITE SUB-AREAS MATCHLINE SEE SHEET 1

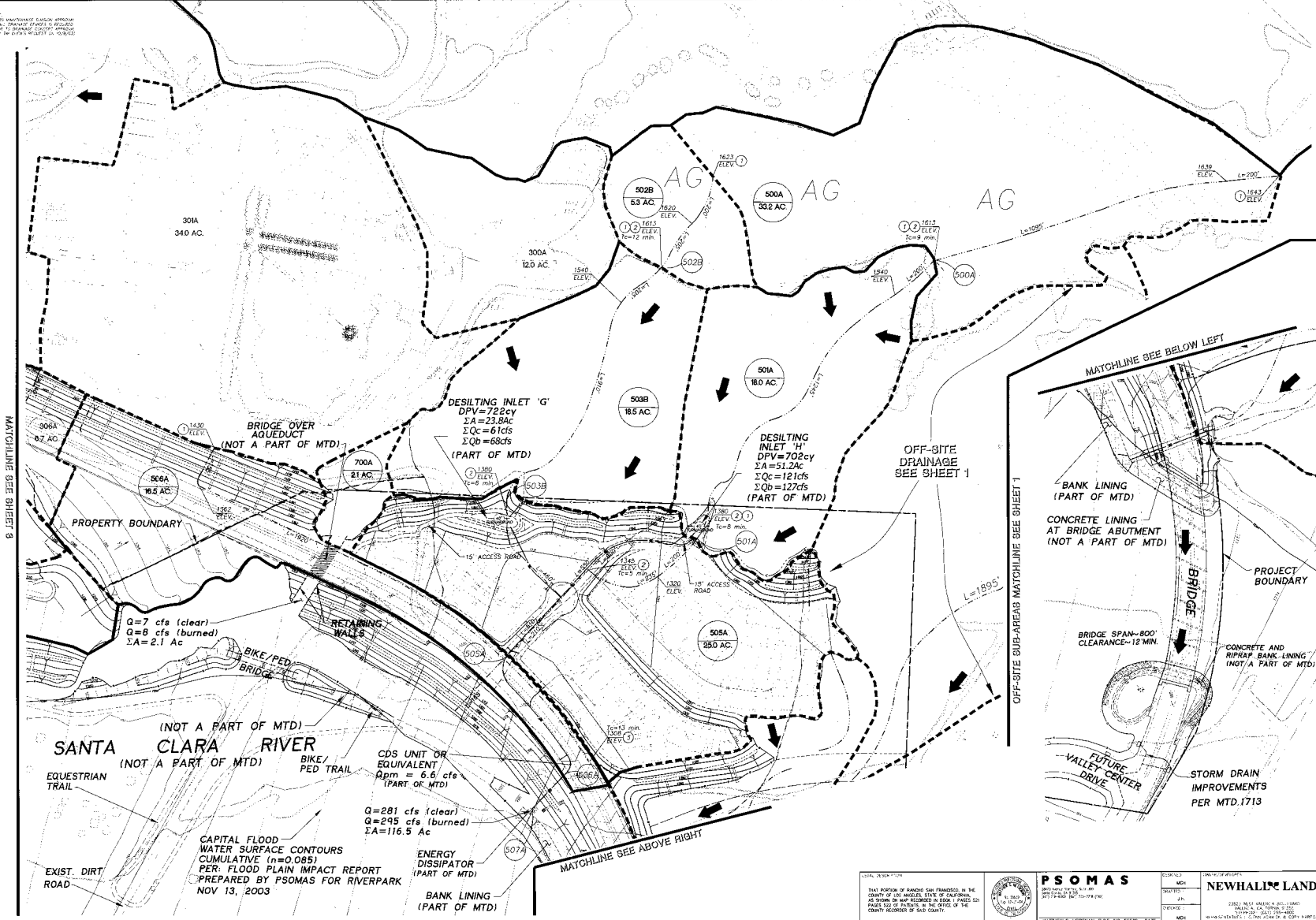


LEGEND

- 100A 15 AC AREA NO.
- ADRS AC ADVERSE
- H HADSPOT NATIONAL METHOD NODE
- NATIONAL METHOD 14 NODE
- ELEV. PATH
- LIMITS OF STUDY
- MARKERS BOUNDARY
- SUB-AREA BOUNDARY
- PROJECT BOUNDARY
- STORM DRAIN LINE - (Part of MTD)
- STORM DRAIN LINE - (Not A Part of MTD)
- GROUND CONTOUR
- FEMA LINE
- EXISTING DRAIN LIMIT
- CLEAR SUB-AREA FLOW
- DRAINAGE SUB-AREA FLOW
- FLOW PATH
- DEBRIS PRODUCTION RATE
- BLENDING RATE
- 500 FT
- 500 FT R & B
- RAINFALL ZONE #
- BURIED BANK LINE

SUMMARY TABLE

SUB-AREA	AREA	ADVERSE	NATIONAL METHOD 14	NATIONAL METHOD 14	MARKERS	MARKERS	MARKERS	MARKERS	MARKERS	MARKERS	MARKERS	MARKERS
LOCATION	AC	TOTAL	ADVERSE	ADVERSE	ADVERSE	ADVERSE	ADVERSE	ADVERSE	ADVERSE	ADVERSE	ADVERSE	ADVERSE
300A	340	1	1	1	1	1	1	1	1	1	1	1
300B	120	1	1	1	1	1	1	1	1	1	1	1
300C	180	1	1	1	1	1	1	1	1	1	1	1
300D	250	1	1	1	1	1	1	1	1	1	1	1
300E	185	1	1	1	1	1	1	1	1	1	1	1
300F	85	1	1	1	1	1	1	1	1	1	1	1
300G	21	1	1	1	1	1	1	1	1	1	1	1
300H	16.5	1	1	1	1	1	1	1	1	1	1	1
300I	180	1	1	1	1	1	1	1	1	1	1	1
300J	185	1	1	1	1	1	1	1	1	1	1	1
300K	15	1	1	1	1	1	1	1	1	1	1	1
300L	250	1	1	1	1	1	1	1	1	1	1	1
300M	116.5	1	1	1	1	1	1	1	1	1	1	1
300N	2.1	1	1	1	1	1	1	1	1	1	1	1
300O	6.6	1	1	1	1	1	1	1	1	1	1	1
300P	116.5	1	1	1	1	1	1	1	1	1	1	1



MATCHLINE SEE SHEET 3

OFF-SITE SUB-AREAS MATCHLINE SEE SHEET 1

MATCHLINE SEE BELOW LEFT

OFF-SITE SUB-AREAS MATCHLINE SEE SHEET 1

OFF-SITE DRAINAGE SEE SHEET 1

MATCHLINE SEE ABOVE RIGHT

SANTA CLARA RIVER
(NOT A PART OF MTD)
BIKE / PED TRAIL
EQUESTRIAN TRAIL

CAPITAL FLOOD WATER SURFACE CONTOURS CUMULATIVE (n=0.085)
PER: FLOOD PLAIN IMPACT REPORT
PREPARED BY PSOMAS FOR RIVERPARK
NOV 13, 2003

CDS UNIT OR EQUIVALENT
Qpm = 6.6 cfs
(PART OF MTD)

Q=281 cfs (clear)
Q=295 cfs (burned)
ΣA=116.5 AC

ENERGY DISSIPATOR
(PART OF MTD)
BANK LINING
(PART OF MTD)

DESILTING INLET 'G'
DPV=722cy
ΣA=23.8AC
ΣQc=61cfs
ΣQb=68cfs
(PART OF MTD)

DESILTING INLET 'H'
DPV=702cy
ΣA=51.2AC
ΣQc=121cfs
ΣQb=127cfs
(PART OF MTD)

BRIDGE SPAN=800'
CLEARANCE=12' MIN

STORM DRAIN IMPROVEMENTS PER MTD.1713

BANK LINING (PART OF MTD)
CONCRETE LINING AT BRIDGE ABUTMENT (NOT A PART OF MTD)

CONCRETE AND RIPRAP BANK LINING (NOT A PART OF MTD)

FUTURE VALLEY CENTER DRIVE

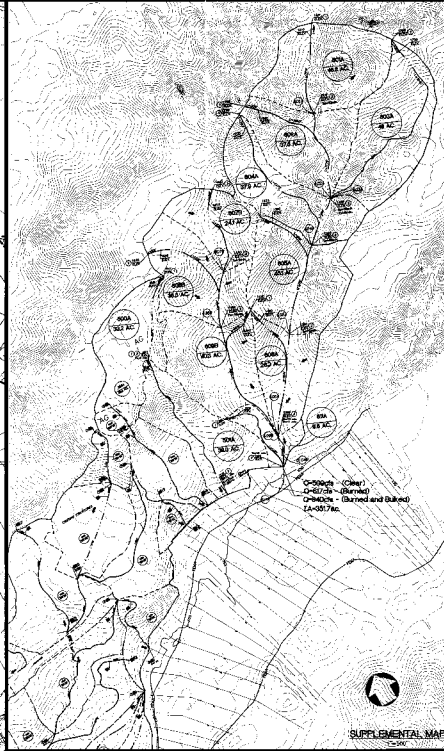
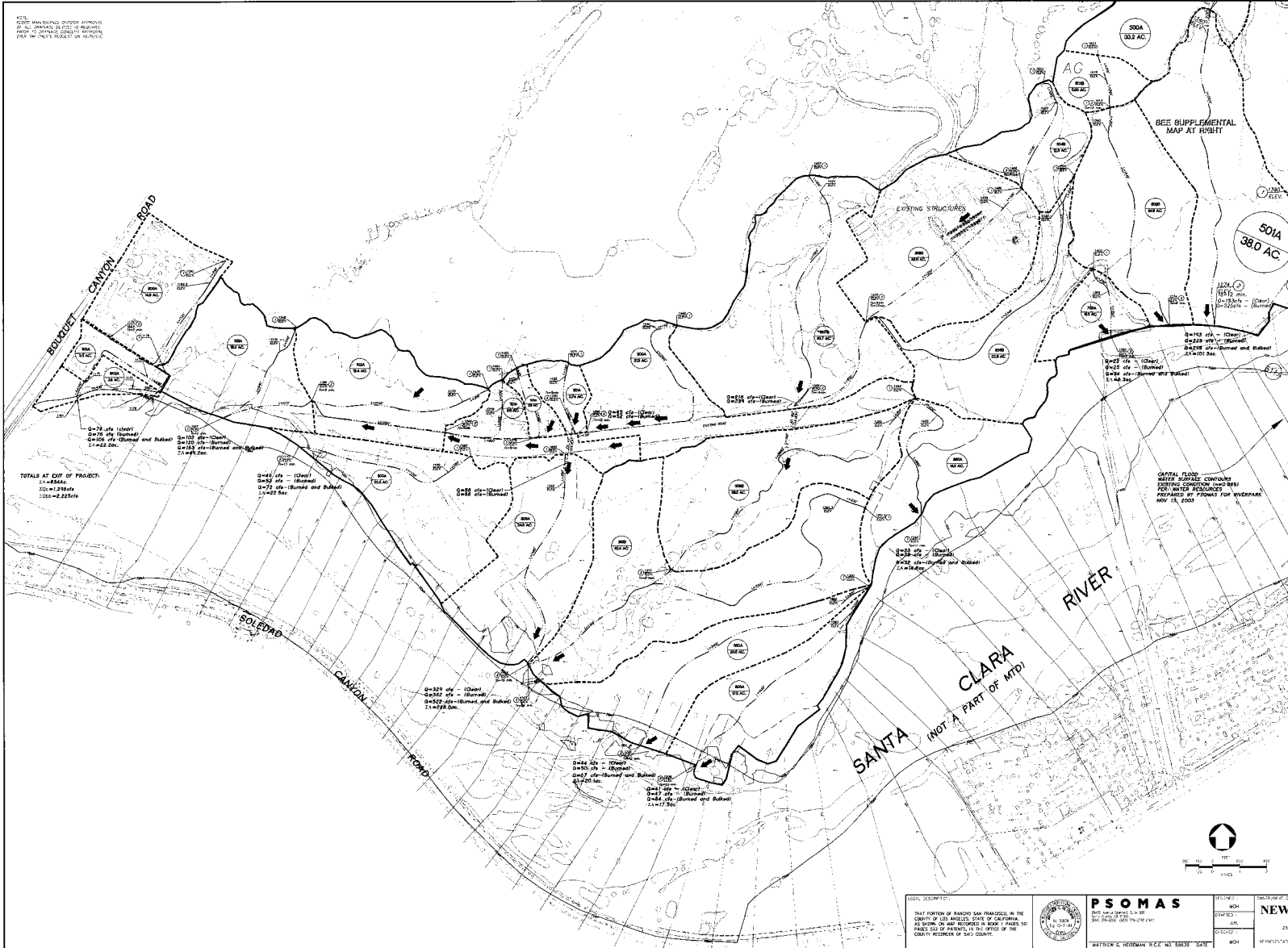
PSOMAS
1500 15th Street, Suite 100
San Francisco, CA 94103
(415) 774-1111
www.psomas.com

DEIR
Map 435
NEWHALLOW LAND
1500 15th Street, Suite 100
San Francisco, CA 94103
(415) 774-1111
www.newhallow.com

RIVER PARK
DRAINAGE CONCEPT FOR TR 53425
PROPOSED CONDITION

LOCATED IN THE CITY OF SANTA CLARA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA
DATE: 11/20/03
DRAWN BY: J. GARDNER
CHECKED BY: M. BROWN
SCALE: 1" = 400'
SHEET 5 OF 5

THIS DRAINAGE CONCEPT APPROVAL
 IS VALID ONLY FOR THE SPECIFIC PROJECT,
 AREA, AND CONDITIONS SHOWN ON THIS MAP.
 IT IS NOT TO BE USED FOR ANY OTHER
 PROJECT OR AREA WITHOUT THE WRITTEN
 CONSENT OF THE ENGINEER.



TOTALS AT END OF PROJECT:
 1-1-8344
 100-0-18344
 100-0-22576

0-45 ac - (Irrig)
 0-50 ac - (Irrig)
 0-75 ac - (Burned and Subst)
 1-1-2222 ac

0-35 ac - (Irrig)
 0-30 ac - (Irrig)
 0-35 ac - (Burned and Subst)
 1-1-2222 ac

0-45 ac - (Irrig)
 0-50 ac - (Irrig)
 0-75 ac - (Burned and Subst)
 1-1-2222 ac

DRAINAGE CONCEPT
 PREPARED BY PSOMAS FOR THE
 CITY OF SANTA CLARA
 NOV. 15, 2000

SUMMARY TABLE

LOGICAL AREA	SUB-AREA	TOTAL AREA	SUB-AREA	SUB-AREA	SUB-AREA	SUB-AREA
AC	AC	AC	AC	AC	AC	AC
0000	0000	0000	0000	0000	0000	0000
0001	0001	0001	0001	0001	0001	0001
0002	0002	0002	0002	0002	0002	0002
0003	0003	0003	0003	0003	0003	0003
0004	0004	0004	0004	0004	0004	0004
0005	0005	0005	0005	0005	0005	0005
0006	0006	0006	0006	0006	0006	0006
0007	0007	0007	0007	0007	0007	0007
0008	0008	0008	0008	0008	0008	0008
0009	0009	0009	0009	0009	0009	0009
0010	0010	0010	0010	0010	0010	0010
0011	0011	0011	0011	0011	0011	0011
0012	0012	0012	0012	0012	0012	0012
0013	0013	0013	0013	0013	0013	0013
0014	0014	0014	0014	0014	0014	0014
0015	0015	0015	0015	0015	0015	0015
0016	0016	0016	0016	0016	0016	0016
0017	0017	0017	0017	0017	0017	0017
0018	0018	0018	0018	0018	0018	0018
0019	0019	0019	0019	0019	0019	0019
0020	0020	0020	0020	0020	0020	0020
0021	0021	0021	0021	0021	0021	0021
0022	0022	0022	0022	0022	0022	0022
0023	0023	0023	0023	0023	0023	0023
0024	0024	0024	0024	0024	0024	0024
0025	0025	0025	0025	0025	0025	0025
0026	0026	0026	0026	0026	0026	0026
0027	0027	0027	0027	0027	0027	0027
0028	0028	0028	0028	0028	0028	0028
0029	0029	0029	0029	0029	0029	0029
0030	0030	0030	0030	0030	0030	0030
0031	0031	0031	0031	0031	0031	0031
0032	0032	0032	0032	0032	0032	0032
0033	0033	0033	0033	0033	0033	0033
0034	0034	0034	0034	0034	0034	0034
0035	0035	0035	0035	0035	0035	0035
0036	0036	0036	0036	0036	0036	0036
0037	0037	0037	0037	0037	0037	0037
0038	0038	0038	0038	0038	0038	0038
0039	0039	0039	0039	0039	0039	0039
0040	0040	0040	0040	0040	0040	0040
0041	0041	0041	0041	0041	0041	0041
0042	0042	0042	0042	0042	0042	0042
0043	0043	0043	0043	0043	0043	0043
0044	0044	0044	0044	0044	0044	0044
0045	0045	0045	0045	0045	0045	0045
0046	0046	0046	0046	0046	0046	0046
0047	0047	0047	0047	0047	0047	0047
0048	0048	0048	0048	0048	0048	0048
0049	0049	0049	0049	0049	0049	0049
0050	0050	0050	0050	0050	0050	0050
0051	0051	0051	0051	0051	0051	0051
0052	0052	0052	0052	0052	0052	0052
0053	0053	0053	0053	0053	0053	0053
0054	0054	0054	0054	0054	0054	0054
0055	0055	0055	0055	0055	0055	0055
0056	0056	0056	0056	0056	0056	0056
0057	0057	0057	0057	0057	0057	0057
0058	0058	0058	0058	0058	0058	0058
0059	0059	0059	0059	0059	0059	0059
0060	0060	0060	0060	0060	0060	0060
0061	0061	0061	0061	0061	0061	0061
0062	0062	0062	0062	0062	0062	0062
0063	0063	0063	0063	0063	0063	0063
0064	0064	0064	0064	0064	0064	0064
0065	0065	0065	0065	0065	0065	0065
0066	0066	0066	0066	0066	0066	0066
0067	0067	0067	0067	0067	0067	0067
0068	0068	0068	0068	0068	0068	0068
0069	0069	0069	0069	0069	0069	0069
0070	0070	0070	0070	0070	0070	0070
0071	0071	0071	0071	0071	0071	0071
0072	0072	0072	0072	0072	0072	0072
0073	0073	0073	0073	0073	0073	0073
0074	0074	0074	0074	0074	0074	0074
0075	0075	0075	0075	0075	0075	0075
0076	0076	0076	0076	0076	0076	0076
0077	0077	0077	0077	0077	0077	0077
0078	0078	0078	0078	0078	0078	0078
0079	0079	0079	0079	0079	0079	0079
0080	0080	0080	0080	0080	0080	0080
0081	0081	0081	0081	0081	0081	0081
0082	0082	0082	0082	0082	0082	0082
0083	0083	0083	0083	0083	0083	0083
0084	0084	0084	0084	0084	0084	0084
0085	0085	0085	0085	0085	0085	0085
0086	0086	0086	0086	0086	0086	0086
0087	0087	0087	0087	0087	0087	0087
0088	0088	0088	0088	0088	0088	0088
0089	0089	0089	0089	0089	0089	0089
0090	0090	0090	0090	0090	0090	0090
0091	0091	0091	0091	0091	0091	0091
0092	0092	0092	0092	0092	0092	0092
0093	0093	0093	0093	0093	0093	0093
0094	0094	0094	0094	0094	0094	0094
0095	0095	0095	0095	0095	0095	0095
0096	0096	0096	0096	0096	0096	0096
0097	0097	0097	0097	0097	0097	0097
0098	0098	0098	0098	0098	0098	0098
0099	0099	0099	0099	0099	0099	0099
0100	0100	0100	0100	0100	0100	0100

- LEGEND**
- 0-01 AREA NO.
 - 0-02 AREA NO.
 - 0-03 AREA NO.
 - 0-04 AREA NO.
 - 0-05 AREA NO.
 - 0-06 AREA NO.
 - 0-07 AREA NO.
 - 0-08 AREA NO.
 - 0-09 AREA NO.
 - 0-10 AREA NO.
 - 0-11 AREA NO.
 - 0-12 AREA NO.
 - 0-13 AREA NO.
 - 0-14 AREA NO.
 - 0-15 AREA NO.
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RIVER PARK DRAINAGE CONCEPT FOR TR 53425 EXISTING HYDROLOGY
 PREPARED BY PSOMAS FOR THE CITY OF SANTA CLARA
 NOV. 15, 2000

DEIR Map #36
 SHEET 5 OF 5
 DATE 11/15/00