

November 17, 2017  
Sacramento, California

The Board of Trustees of the American River Flood Control District met in regular session in its office at 185 Commerce Circle, Sacramento, CA at 11:00 a.m. on Friday, November 17, 2017. In attendance were Trustee Holloway, Trustee Redway, Trustee Shah, Trustee Pavão and Trustee Johns. Trustee Holloway presided. Also present from the District were General Manager (GM) Tim Kerr, Superintendent Ross Kawamura, Legal Counsel David Aladjem and Office Manager Malane Chapman. One member of the public was present.

*Item No. 1 Public Comments on Non-Agenda Items:* There were no comments on non-agenda items from members of the public.

*Item No. 2 Approval of Consent Agenda Items:* On a motion by Trustee Redway seconded by Trustee Pavão, the Board unanimously approved Items 2a) Minutes of Regular Meeting on October 13, 2017, 2b) Minutes of Special Meeting on October 24, 2017, 2c) Approval of Report of Investment Transactions September 2017 (City Pool A, LAIF, River City) and Treasurer's Certification, 2d) District Financial Reports: Statement of Operations (October 2017) and Cash Flow Report, 2e) Resolution 2017-06: Delegation of Authority to Act in an Emergency and 2f) Correspondence: None.

*Item No. 3 Accounts Payable and General Fund Expenses (October 2017):* Trustee Pavão requested clarification regarding payments to Kent Arborist Services and Sacramento Web GIS. Trustee Redway requested clarification regarding payments to Sacramento County Tax Collector. On a motion by Trustee Pavão seconded by Trustee Redway, the Board unanimously approved payments on the Schedule of Accounts Payable (October 2017) of \$123,657.06 and General Fund Expenses of \$65,445.98 (total aggregate sum \$189,103.04).

*Item No. 4 Permit at 5700 Coda Lane, Carmichael, CA:* On a motion by Trustee Pavão seconded by Trustee Redway, the Board unanimously approved the endorsement of the permit to install a sewer line connection across the District levee.

*Item No. 5 Administrative Staff Reports:*

a) *General Manager Tim Kerr reported on the following:*

- General Manager's October Meeting Summary;
- Status Update: High Hazard Tree Program;
- Winter Season Flood Preparedness;
- Hydrologic Conditions: Folsom Lake is 56% full, with an outflow of 1,921 cfs and the gauge at the I Street Bridge shows 7 feet above sea level;
- Next Board Meeting: December 8, 2017.

b) *Legal Counsel David Aladjem had nothing further to report.*

c) *Office Manager Malane Chapman reported on the following:*

- Newsletter: The Newsletter Committee will be meeting in the next month to review the Winter 2017 Newsletter.
- Fiscal Year 2016-2017 Audit: Richardson & Company will be in the office from November 29 to December 1;
- Holiday Gathering for Board and District Staff.

*Item No. 6 Operations and Maintenance Staff Reports:*

*a) Superintendent Ross Kawamura reported on:*

- Crew activities including erosion repair, gate (valve) inspections and grouting.
- Flood Fight Training was held on Monday, November 13, 2017 at 8:00 a.m.

*Item No. 7 Questions and Comments by Trustees:*

*Item No 8 Adjourn:* There being no further business requiring action by the Board, the meeting was adjourned by Trustee Holloway at 12:01p.m.

Attest:

\_\_\_\_\_  
Secretary

\_\_\_\_\_  
President

**American River Flood Control District  
Staff Report**

**Investment Transactions Summary; October 2017**

**LAIF:**

- On October 13, 2017 a quarterly interest payment was deposited in the amount of \$2,062.83.

**City Pool A**

- Accrued Interest Receivable for the month of September was \$10,298.24.
- As of October 31, 2017, the balance of Interest Receivable in this account was \$39,687.21.

Interest Receivable is accrued and transferred to the Cash Balance at the discretion of the City.

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**River City Bank:**

- On October 6, 2017 a miscellaneous deposit was made in the amount of \$3,657.50.
- Total amount of Accounts Payable cleared during the month of October was \$137,853.09.
- On October 31, 2017 a monthly interest payment was deposited in the amount of \$28.36.

**American River Flood Control District  
Investment Transaction Report  
October 2017**

Item 2b

**Balance and Transactions**

<b>Account</b>		<b>LAIF</b>	<b>City Pool A</b>	<b>River City Bank</b>
Beginning Balance	10/1/17	\$762,160.30	\$7,267,268.07	\$461,342.89
<b>Transactions</b>				
Deposit	10/6/17			3,657.50
LAIF	10/13/17	<b>2,062.83</b>		
City Pool A	10/31/17		10,298.24	
River City Bank Interest	10/31/17			28.36
Accounts Payable (cleared)				(137,853.09)
<b>Ending Balance:</b>	<b>10/31/17</b>	<b>\$764,223.13</b>	<b>\$7,267,268.07</b>	<b>\$327,175.66</b>

\*\*City Pool A Interest is accrued and deposited in the account at the discretion of the City.

**Interest**

<b>Date:</b>	<b>Nov 2016</b>	<b>Dec 2016</b>	<b>Jan 2017</b>	<b>Feb 2017</b>
LAIF	0.65	0.65	0.75	0.75
City Pool A	1.32	1.17	1.39	1.58
River City Bank	0.25	0.16	0.19	0.25
<b>Date:</b>	<b>Mar 2017</b>	<b>Apr 2017</b>	<b>May 2017</b>	<b>June 2017</b>
LAIF	0.82	0.88	0.88	0.98
City Pool A	1.47	1.56	1.42	1.55
River City Bank	0.25	0.25	0.25	0.20
<b>Date:</b>	<b>July 2017</b>	<b>Aug 2017</b>	<b>Sep 2017</b>	<b>Oct 2017</b>
LAIF	1.05	1.08	1.11	<b>1.14</b>
City Pool A	1.50	1.61	1.70	<b>1.66</b>
River City Bank	0.08	0.08	0.08	<b>0.08</b>

**American River  
Flood Control  
District**

## AMERICAN RIVER FLOOD CONTROL DISTRICT

### MONTHLY REVIEW – OCTOBER 2017

#### STRATEGY

The ARFCD funds are invested in the City of Sacramento’s Pool A investment fund. The Fund is invested pursuant to the objectives and requirements set forth in the City’s investment policy. The three objectives of the investment policy, in order of priority, are (1) the preservation of capital by the investment in safe instruments, (2) the liquidity needs of the City and pool participants so such parties will have access to cash when they need it, and (3) the maximizing of current income while remaining consistent with the other more important objectives. The City’s investment policy incorporates applicable provisions of state law including, among other things, the prudent person standard and California Code Section 53601 pertaining to eligible investments.

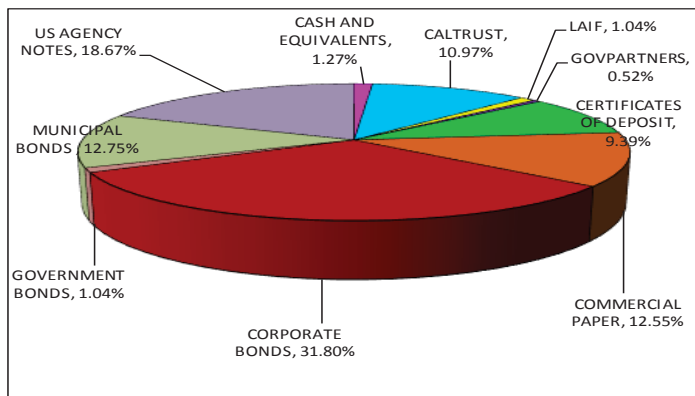
#### PORTFOLIO STATISTICS

Portfolio’s Beginning Balance	7,296,657
Contributions	0
Withdrawals	0
Interest Earned	10,298
Month-End Market Value	7,306,955

#### PERFORMANCE

Earned Interest Yield for the Month	1.66%
Laif Rate of Return (book value)	1.14%
90 Day T-Bill	1.04%
Federal Funds	1.15%

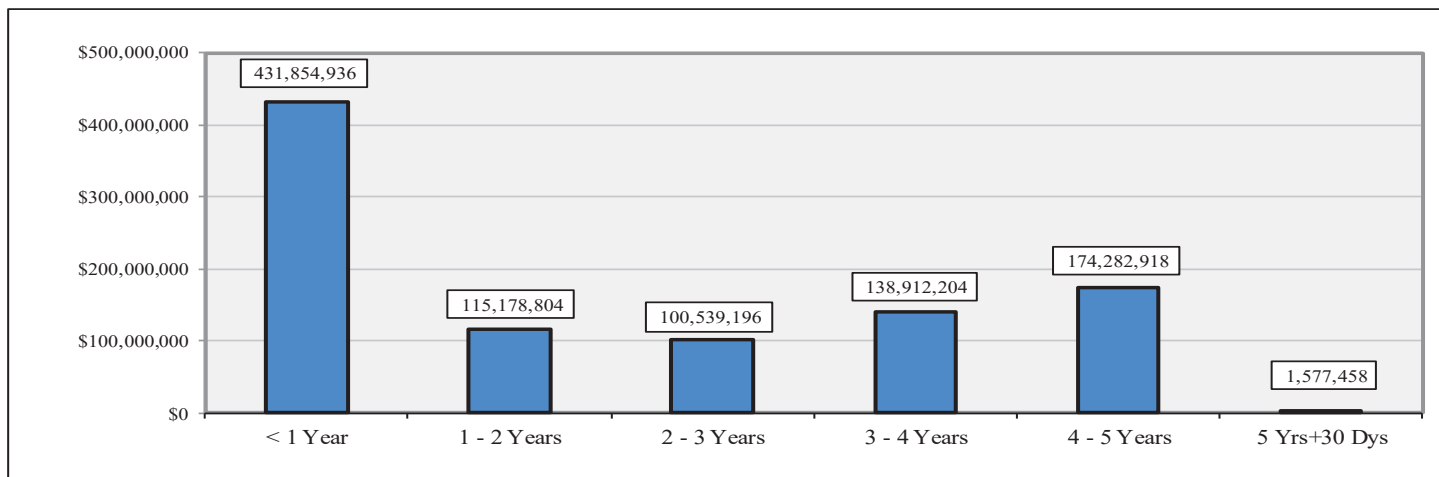
#### POOL A BY ASSET CLASS



#### POOL A MATURITY SCHEDULE

Maturity	Market Value	%
< 1 Year	431,854,936	44.88%
1 - 2 Years	115,178,804	11.97%
2 - 3 Years	100,539,196	10.45%
3 - 4 Years	138,912,204	14.43%
4 - 5 Years	174,282,918	18.11%
5 Yrs+30 Dys	1,577,458	0.16%
<b>Total</b>	<b>962,345,516</b>	<b>100.00%</b>

Investment Description	Portfolio at Cost	Yield at Month End
CASH AND EQUIVALENTS	1.27%	1.12%
CALTRUST	10.97%	1.39%
LAIF	1.04%	1.14%
GOVPARTNERS	0.52%	1.13%
CERTIFICATES OF DEPOSIT	9.39%	1.70%
COMMERCIAL PAPER	12.55%	1.42%
CORPORATE BONDS	31.80%	1.98%
GOVERNMENT BONDS	1.04%	1.90%
MUNICIPAL BONDS	12.75%	1.94%
US AGENCY NOTES	18.67%	1.55%



City of Sacramento  
 CASH LEDGER  
**American River Flood Control District**  
*From 10-01-17 To 10-31-17*

Item 2b

**All Cash Accounts**

Trade Date	Settle Date	Tran Code	Quantity	Security	Amount	Cash Balance
<b>Pool A Interest Receivable</b>						
10-01-17				Beginning Balance		29,388.97
10-31-17	10-31-17	in		Pool A Cash	10,298.24	39,687.21
				Oct 2017 estimated Pool A interest		
					10,298.24	
10-31-17				Ending Balance		39,687.21
<b>Pool A Cash</b>						
10-01-17				Beginning Balance		7,267,268.07
10-31-17				Ending Balance		7,267,268.07

**Local Agency Investment Fund**  
**P.O. Box 942809**  
**Sacramento, CA 94209-0001**  
**(916) 653-3001**

[www.treasurer.ca.gov/pmia-laif/laif.asp](http://www.treasurer.ca.gov/pmia-laif/laif.asp)  
November 03,  
2017

AMERICAN RIVER FLOOD CONTROL DISTRICT

DISTRICT ENGINEER/MANAGER  
165 COMMERCE CIRCLE, SUITE D  
SACRAMENTO, CA 95815

PMIA Average Monthly Yields

**Account Number:**  
90-34-002

// Tran Type Definitions

October 2017 Statement

Effective Date	Transaction Date	Tran Type	Confirm Number	Authorized Caller	Amount
10/13/2017	10/12/2017	QRD	1551076	SYSTEM	2,062.83

Account Summary

Total Deposit:	2,062.83	Beginning Balance:	762,160.30
Total Withdrawal:	0.00	Ending Balance:	764,223.13





# River City Bank

WWW.RIVERCITYBANK.COM

PO Box 15247, Sacramento, CA 95851-0247

Return Service Requested

Item 2b



Last statement: September 30, 2017

This statement: October 31, 2017

Total days in statement period: 31

AMERICAN RIVER FLOOD CONTROL DISTRICT  
4000 MAGNOLIA HILLS DR  
EL DORADO HILLS CA 95762-6561

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0811100952  
( 0)

Direct inquiries to:  
916-567-2836

## Public Fund Interest Checking

Account number	0811100952	Beginning balance	\$461,342.89
Low balance	\$327,147.30	Total additions	3,684.07
Average balance	\$417,280.58	Total subtractions	137,851.30
Avg collected balance	\$417,280	Ending balance	\$327,175.66

### DEBITS

Date	Description	Subtractions
10-03	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	6,474.02
10-11	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	99.00
10-13	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	22,503.47
10-18	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	5,391.83
10-19	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	581.86
10-23	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	25,081.68
10-24	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	8,998.17

AMERICAN RIVER FLOOD CONTROL DISTRICT  
October 31, 2017

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0811100952

<b>Date</b>	<b>Description</b>	<b>Subtractions</b>
10-25	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	57,329.45
10-26	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	9,233.94
10-27	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	665.23
10-30	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	1,289.84
10-31	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0736	202.81

#### CREDITS

<b>Date</b>	<b>Description</b>	<b>Additions</b>
10-06	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0736	3,655.71
10-31	' Interest Credit	28.36

#### DAILY BALANCES

<b>Date</b>	<b>Amount</b>	<b>Date</b>	<b>Amount</b>	<b>Date</b>	<b>Amount</b>
09-30	461,342.89	10-18	430,530.28	10-26	329,305.18
10-03	454,868.87	10-19	429,948.42	10-27	328,639.95
10-06	458,524.58	10-23	404,866.74	10-30	327,350.11
10-11	458,425.58	10-24	395,868.57	10-31	327,175.66
10-13	435,922.11	10-25	338,539.12		

#### INTEREST INFORMATION

Annual percentage yield earned	0.08%
Interest-bearing days	31
Average balance for APY	\$417,280.58
Interest earned	\$28.36

AMERICAN RIVER FLOOD CONTROL DISTRICT  
October 31, 2017

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0811100952

**OVERDRAFT/RETURN ITEM FEES**

	Total for this period	Total year-to-date
Total Overdraft Fees	\$0.00	\$0.00
Total Returned Item Fees	\$0.00	\$0.00



**River City Bank**

WWW.RIVERCITYBANK.COM

PO Box 15247, Sacramento, CA 95851-0247

Return Service Requested

Item 2b



Last statement: September 30, 2017

This statement: October 31, 2017

Total days in statement period: 31

AMERICAN RIVER FLOOD CONTROL DISTRICT  
4000 MAGNOLIA HILLS DR  
EL DORADO HILLS CA 95762-6561

Page 1  
0811090736  
( 45)

Direct inquiries to:  
916-567-2836

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### Public Fund Interest Checking

Account number	0811090736	Beginning balance	\$0.00
Enclosures	45	Total additions	141,508.80
Low balance	\$0.00	Total subtractions	141,509.36
Average balance	\$0.00	Ending balance	\$-.56
Avg collected balance	\$-472		

### CHECKS

Number	Date	Amount	Number	Date	Amount
6064	10-11	99.00	6095	10-23	1,645.50
6073 *	10-06	1.79	6096	10-25	129.90
6074	10-25	593.32	6097	10-25	3,179.31
6075	10-25	24,973.91	6098	10-26	61.22
6076	10-25	19,592.00	6099	10-24	540.62
6077	10-27	58.15	6100	10-25	641.23
6078	10-23	136.18	6101	10-30	22.68
6079	10-26	677.47	6102	10-25	1,087.50
6080	10-26	1,016.60	6103	10-27	607.08
6081	10-24	350.00	6104	10-24	875.56
6082	10-24	193.50	6105	10-25	621.71
6083	10-30	215.68	6106	10-24	172.12
6084	10-24	116.82	6107	10-25	200.00
6085	10-26	117.90	6108	10-24	154.17
6086	10-24	146.90	6109	10-30	876.48
6088 *	10-24	936.00	6110	10-25	340.65
6089	10-31	202.81	6111	10-26	206.67
6090	10-24	669.65	6112	10-30	175.00
6091	10-24	837.83	6113	10-24	4,005.00
6092	10-23	23,300.00	6114	10-25	5,867.72
6093	10-25	102.20	6115	10-26	6,497.50
6094	10-26	349.87	6116	10-26	306.71

AMERICAN RIVER FLOOD CONTROL DISTRICT  
October 31, 2017

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0811090736

Number	Date	Amount	Number	Date	Amount
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\* Skip in check sequence

**DEBITS**

Date	Description	Subtractions
10-03	' ACH Withdrawal CALPERS 3100 100000015058911	63.94
10-03	' ACH Withdrawal CALPERS 3100 100000015058878	597.04
10-03	' ACH Withdrawal CALPERS 3100 100000015032289	2,586.67
10-03	' ACH Withdrawal CALPERS 1900 100000015079412	3,226.37
10-06	' Automatic Transfer TRANSFER TO DEPOSIT SYSTEM ACCOUNT XXXXXX0952	3,655.71
10-13	' ACH Withdrawal INTUIT PAYROLL S QUICKBOOKS 171013 946000047	22,503.47
10-18	' ACH Withdrawal CALPERS 3100 100000015058911	890.20
10-18	' ACH Withdrawal CALPERS 1900 100000015097643	1,914.96
10-18	' ACH Withdrawal CALPERS 3100 100000015058878	2,586.67
10-19	' ACH Withdrawal HEALTHEQUITY INC HealthEqui 171019	152.95
10-19	' ACH Withdrawal INTUIT PAYROLL S QUICKBOOKS 171019 946000047	428.91
10-31	' Service Charge ADDITIONAL DEBITS	0.56

**CREDITS**

Date	Description	Additions
10-03	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	6,474.02
10-06	Deposit	3,657.50
10-11	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	99.00
10-13	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	22,503.47

AMERICAN RIVER FLOOD CONTROL DISTRICT  
 October 31, 2017

Date	Description	Additions
10-18	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	5,391.83
10-19	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	581.86
10-23	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	25,081.68
10-24	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	8,998.17
10-25	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	57,329.45
10-26	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	9,233.94
10-27	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	665.23
10-30	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	1,289.84
10-31	' Automatic Transfer TRANSFER FROM DEPOSIT SYSTEM ACCOUNT XXXXXX0952	202.81

**DAILY BALANCES**

Date	Amount	Date	Amount	Date	Amount
09-30	0.00	10-18	0.00	10-26	0.00
10-03	0.00	10-19	0.00	10-27	0.00
10-06	0.00	10-23	0.00	10-30	0.00
10-11	0.00	10-24	0.00	10-31	-0.56
10-13	0.00	10-25	0.00		

**INTEREST INFORMATION**

Annual percentage yield earned	0.00%
Interest-bearing days	31
Average balance for APY	\$0.00
Interest earned	\$0.00

AMERICAN RIVER FLOOD CONTROL DISTRICT  
October 31, 2017

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**OVERDRAFT/RETURN ITEM FEES**

	Total for this period	Total year-to-date
Total Overdraft Fees	\$0.00	\$0.00
Total Returned Item Fees	\$0.00	\$0.00

**CERTIFICATION**

The American River Flood Control District's investment portfolio [] is [ is not] in compliance with the District's Financial Management Investments Plan.

The District's investment portfolio is not in compliance in the following respects:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

A cash flow analysis confirms that the District [ is] [ is not] expected to be able to meet its expenditure requirements for the next six months.

The District's cash is insufficient to meet obligations for the next six months as a result of the following:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Attached hereto are the most recent statements of accounts of the following District accounts:

- LAIF Account, State Treasurer's Office                      **Dated October 2017**
- Investment Pool A Account, City of Sacramento **Dated October 2017**
- District Checking Account, River City Bank                      **Dated October 2017**
- District Repurchase Account, River City Bank                      **Dated October 2017**

Certified by: \_\_\_\_\_ Date: \_\_\_\_\_  
Cyril Shah, District Treasurer



American River Flood Control District  
Statement of Operations  
July 1, 2017 to November 30, 2017 (Five Months Ending of Fiscal Year 2017 - 2018)  
For Internal Use Only

	Year to Date July 1, 2017 to November 30, 2017	Budget	Percent of Budget
<b>Revenues</b>			
Benefit assessment	\$ -	\$ 1,385,000	0.00%
Consolidated capital assessment	-	650,000	0.00%
Interest	41,919	75,000	55.89%
O & M agreements	-	225,000	0.00%
Miscellaneous	3,657	3,500	104.49%
<b>Total Revenues</b>	<u>45,576</u>	<u>2,338,500</u>	1.95%
<b>M &amp; O Expenses</b>			
Salaries and wages	253,548	664,645	38.15%
Payroll tax expense	17,610	53,172	33.12%
Pension expense	49,754	124,602	39.93%
Compensation insurance	8,081	33,232	24.32%
Medical/dental/vision	79,932	189,474	42.19%
Fuel/oil reimbursement	7,892	30,000	26.31%
Equipment rental	15,636	6,500	240.55%
Equipment repairs/parts	12,362	40,000	30.91%
Equipment purchases (< \$5,000)	-	5,000	0.00%
Shop supplies	4,485	12,000	37.38%
Levee maint. (supp. & material)	746	17,000	4.39%
Levee maint. chemicals	9,235	20,000	46.18%
Levee maint. services	48,360	34,000	142.24%
Rodent abatement (supplies & materials)	6,192	10,000	61.92%
Employee uniforms	256	5,000	5.12%
Staff training	2,705	15,000	18.03%
Miscellaneous	542	2,000	27.10%
Small tools & equipment	-	3,000	0.00%
Emergency preparedness program	1,400	20,000	7.00%
Engineering services	6,777	8,000	84.71%
Encroachment remediation	-	15,000	0.00%
<b>Total M &amp; O Expenses</b>	<u>525,513</u>	<u>1,307,625</u>	40.19%
<b>Administration Expenses</b>			
Board of trustees compensation	2,495	7,900	31.58%
Trustee expenses	261	1,750	14.91%
Accounting services	-	15,000	0.00%
Legal services (general)	7,910	50,000	15.82%
Utilities	10,375	25,000	41.50%
Telephone	6,560	12,500	52.48%
Retiree benefits	67,630	135,270	50.00%
Office equipment/furniture	-	10,000	0.00%
Office supplies	497	2,000	24.85%
Auto allowance	2,941	7,100	41.42%
Parking reimbursement	5	150	3.33%
General office expense	3,687	13,000	28.36%
Technology and software	3,812	17,000	22.42%
Dues and associations	17,945	25,000	71.78%
Property and liability insurance	23,631	30,000	78.77%
Conference/workshop/seminar	-	1,500	0.00%
Public relations/information	-	35,000	0.00%
Miscellaneous	1,505	5,000	30.10%
Employee morale/wellness	882	1,500	58.80%
Investment fees	3,634	13,000	27.95%
Community services	-	1,500	0.00%
Bookkeeping services	1,856	12,000	15.47%
Property taxes	1,660	3,000	55.33%
Building maintenance	1,369	17,000	8.05%
County Dtech fees for DLMS	37,600	60,477	62.17%
County assessment fees	1,061	21,000	5.05%
Interest expense	191	-	Not budgeted
<b>Total Administration Expenses</b>	<u>197,507</u>	<u>522,647</u>	37.79%
<b>Special Projects Expenses</b>			
Engineering studies/survey studies	-	15,000	0.00%
Levee standards compliance	10,000	100,000	10.00%
Small capital projects	8,610	50,000	17.22%
<b>Total Special Project Expenses</b>	<u>18,610</u>	<u>165,000</u>	11.28%
<b>Capital Outlay</b>			
Equipment purchases (over \$5,000)	48,189	50,000	96.38%
<b>Total Capital Outlay</b>	<u>48,189</u>	<u>50,000</u>	
<b>Capital Outlay: District Headquarters Build-Out</b>			
Building improvements/maintenance	-	20,000	0.00%
La Riviera improvements/maintenance	746	30,000	2.49%
	<u>746</u>	<u>50,000</u>	

**Note: Amounts above are not audited**

The above information is current through the last day of the previous month's bank activity.

Data has been verified by the bookkeeper and physical copies of checks have not been reviewed or received and some checks may not have cleared the bank account.

AMERICAN RIVER FLOOD CONTROL DISTRICT  
Cash Flow Report  
July 2017 through June 2018

Cash Flow Report

Maintenance and Operations Expens	Jul 17	Aug 17	Sept 17	Oct 17	Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	TOTAL
500 - Salary/Wages	47,744.54	50,883.41	51,666.88	50,964.96	51,666.88	25,008.12	0.00	0.00	0.00	0.00	0.00	0.00	277,934.79
501 - Payroll Taxes	3,674.40	3,923.51	3,992.41	3,648.14	3,160.27	1,481.08	0.00	0.00	0.00	0.00	0.00	0.00	19,879.81
502 - Pension	10,923.54	5,981.02	11,142.09	9,080.39	7,296.32	(478.78)	0.00	0.00	0.00	0.00	0.00	0.00	43,944.58
503 - Compensation Insurance	8,741.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8,741.45
504 - Medical/Dental/Vision	13,701.42	13,701.42	13,800.42	13,701.42	13,701.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68,606.10
508 - Fuel/Oil	2,966.92	2,085.35	2,513.28	837.83	1,708.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10,112.23
509 - Equipment Rental	4,310.00	2,060.14	4,643.10	3,333.48	5,598.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19,945.43
510 - Equipment Purchase(< \$5000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
511 - Equipment Repair/Parts	2,536.96	3,662.27	3,409.60	2,276.33	2,061.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13,946.38
512 - Shop Supplies	1,471.30	869.01	1,771.04	711.22	1,353.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6,175.98
514 - Levee Maint(Supplies&Materi	0.00	392.13	0.00	208.74	269.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	870.01
515 - Levee Maintenance Services	6,508.48	9,004.85	1,075.98	27,637.64	9,159.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53,386.71
516 - Employee Uniforms	0.00	486.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	486.19
518 - Staff Training	738.93	164.58	5.20	235.36	327.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,471.38
519 - Miscellaneous O&M	0.00	0.00	0.00	540.62	1,061.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,601.62
521 - Small Tools & Equip	2,601.61	222.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,824.26
523 - Levee Maint. (Chemicals)	44.31	1,432.03	0.00	0.00	7,803.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9,279.60
525 - Emergency Preparedness Prc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
530 - Encroachment Remediation I	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
532 - Rodent Abatement	0.00	26.88	333.93	5,831.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6,191.91
605 - Engineering Services	3,878.00	2,986.75	4,745.50	1,645.50	386.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13,642.00
615 - Survey Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
616 - Environmental Services/Studit	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total M&amp;O Expense</b>	<b>109,841.86</b>	<b>97,882.19</b>	<b>99,099.43</b>	<b>120,652.73</b>	<b>105,553.80</b>	<b>26,010.42</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>559,040.43</b>

Administrative Expenses	Jul 17	Aug 17	Sept 17	Oct 17	Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	TOTAL
505 - Telephone	1,018.25	1,048.45	1,056.94	1,018.12	1,291.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,433.12
506 - Utility Charges	2,753.83	2,281.71	2,741.07	2,311.02	3,153.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13,241.16
507 - Office/Shop Lease	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
513 - Office Supplies	506.71	0.00	220.03	61.22	118.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	906.32
517 - Auto Allowance	550.00	550.00	550.00	550.00	550.00	275.00	0.00	0.00	0.00	0.00	0.00	0.00	3,025.00
520 - Retiree Benefits	11,272.49	11,272.49	11,272.49	11,272.49	11,272.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	56,362.45
522 - Office Equipment/Furniture	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
526 - Mileage/Parking Reimburse	45.15	0.00	0.00	235.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	280.30
527 - General Office Expense	1,159.75	756.29	1,293.60	755.59	1,393.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5,358.49
529 - Pre-funding Retiree Benefits	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
531 - Technology & Software	270.26	269.85	514.21	527.38	2,275.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3,857.07
600 - Board of Trustees Compensa	285.00	380.00	475.00	380.00	760.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,280.00
601 - Trustee Expenses	363.22	81.63	5.81	60.61	58.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	569.47
602 - Accounting Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
603 - Legal Fees (General)	1,448.67	6,298.00	6,255.50	1,129.50	525.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15,656.67
604 - Flood Litigation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
606 - Legislative Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
607 - Dues and Assoc. Expenses	0.00	5,489.00	60.00	0.00	9,601.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15,150.00
608 - Insurance Premiums	0.00	0.00	0.00	19,592.00	8,081.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27,673.08
609 - Conference /Workshops/Sem	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
610 - Public Relations Information	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
611 - Election Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
612 - District Annexations	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
613 - Community Services	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
614 - Miscellaneous Admin	155.70	146.95	224.75	(3,430.55)	380.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(2,522.64)
617 - Investment Fees	0.00	3,619.00	0.00	0.00	3,634.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7,253.00

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618 - Property Tax	0.00	0.00	0.00	0.00	1,659.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,659.54
619 - Building Maintenance	112.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	112.93
620 - Bookkeeping Services	1,012.50	1,200.00	768.75	1,087.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,068.75
621 - County Assessment Fees	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00
622 - County DTech Fees for DLMS	0.00	1,764.00	5,608.29	6,497.50	25,494.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39,364.12
623 - Employee Morale/Wellness	88.40	915.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,004.27
<b>Total Administrative</b>	<b>21,042.86</b>	<b>36,088.24</b>	<b>31,046.44</b>	<b>42,047.53</b>	<b>70,248.03</b>	<b>275.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>200,748.10</b>

Special Projects Expenses	Jul 17	Aug 17	Sept 17	Oct 17	Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	TOTAL
702 - Engineering/Survey Studies	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
703 - Encroachment Remediation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
704 - Vegetation Management	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
705 - Small Capital Projects	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
707 - Levee Standards Compliance	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Special Projects</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Capital Outlay: Flood Control	Jul 17	Aug 17	Sept 17	Oct 17	Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	TOTAL
700 - Bank Protection	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
701 - Magpie Creek	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
706 - Property Acquisition	0.00	7,593.18	0.00	1,118.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8,711.98
709 - Equipment Purchase (> \$500)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Capital Outlay: Flood Control</b>	<b>0.00</b>	<b>7,593.18</b>	<b>0.00</b>	<b>1,118.80</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>8,711.98</b>

Income	Jul 17	Aug 17	Sept 17	Oct 17	Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	TOTAL
120 - Benefit Assessment	0.00	40,376.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40,376.68
122 - SAFCA CAD4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
123 - Interest	1,807.07	48.24	36.23	2,091.19	17.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,000.21
124 - O&M Agreements	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126 - Miscellaneous Income	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Income</b>	<b>1,807.07</b>	<b>40,424.92</b>	<b>36.23</b>	<b>2,091.19</b>	<b>17.48</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>44,376.89</b>

Fund Balance	Jul 17	Aug 17	Sept 17	Oct 17	Nov 17	Dec 17	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18
<b>District Operations Fund</b>												
Beginning Balance	2,294,495.71	1,165,418.06	1,071,872.55	941,762.91	781,153.84	605,369.49	0.00	0.00	0.00	0.00	0.00	0.00
Income	1,807.07	40,424.92	36.23	2,091.19	17.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Expenses	1,130,884.72	133,970.43	130,145.87	162,700.26	175,801.83	26,285.42	0.00	0.00	0.00	0.00	0.00	0.00
Ending Balance	1,165,418.06	1,071,872.55	941,762.91	781,153.84	605,369.49	579,084.07	0.00	0.00	0.00	0.00	0.00	0.00
<b>Capital Outlay Reserve Fund</b>												
Beginning Balance	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Income	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ending Balance	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	1,065,000.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Retiree Health Benefit Reserve Fund</b>												
Beginning Balance	1,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	0.00	0.00	0.00	0.00	0.00	0.00
Income	1,000,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Expenses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ending Balance	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	2,443,558.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Flood Emergency Response Reserve Fund</b>												

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<b>Beginning Balance</b>	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Income</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Expenses</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Ending Balance</b>	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Emergency Repair Reserve Fund</b>												
<b>Beginning Balance</b>	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Income</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Expenses</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Ending Balance</b>	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	1,500,000.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Balance</b>	7,673,976.06	7,580,430.55	7,450,320.91	7,289,711.84	7,113,927.49	7,087,642.07	0.00	0.00	0.00	0.00	0.00	0.00

# Sponsorship Opportunities



## Creek Week 2018 ♦ April 6-14 ♦ Earth, Water, Sky – Creeks!



### 28th Annual Sacramento County Creek Week

We need your help NOW to make Creek Week 2018 successful!

Your sponsorship **engages tens of thousands of citizens** throughout the Sacramento region in our week-long event.

- We improve our community through creek stewardship and trash cleanup; and
- We learn about creek ecosystems.

We can meet and exceed the 2017 Creek Week accomplishments, but it will **only be possible with the generous contributions** of our sponsors.

*Your support is appreciated and provides opportunities for young and old to demonstrate environmental stewardship. Stand out as a leader and enjoy direct contact with customers!*

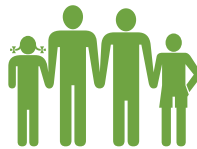
*For sponsorship information contact:*

**Alta Tura**

**(916) 454-4544 or**

**[saccreekweek@gmail.com](mailto:saccreekweek@gmail.com)**

### 2017 Creek Week Results



**1,700 volunteers,**  
**35 miles of waterways,**  
**90+ different locations**



**Over 19 tons of garbage**  
**including tires and shopping**  
**carts**



**For the 8th year, water quality**  
**testing was conducted at**  
**selected sites**

Volunteers categorize trash from selected sites and collected the data in a mobile app with the help of **hammerdirt**, which adds citizen science to the Creek Week experience. The **Arcade Creek Report** illustrates some of the data collected during Creek Week 2017.



### Creek Week takes pride in its tradition

Creek Week is a regional institution mobilizing **volunteers from Folsom to the Sacramento Delta**. Over 28-years, Creek Week has provided public education and stewardship opportunities for families, youth groups, and do-gooders in the community. The extraordinary efforts of Creek Week volunteers have removed hundreds of tons of trash from creeks and increased flood safety by improving storm water conveyance.

# Become a Corporate Sponsor of Creek Week 2018

Item 2d



Splash Off 2016, City Councilman Jeff Harris, presented the Creek Steward Award for the Caleb Greenwood School Garden Project



Activities during Creek Week include a "Birds & Bloom Tour" of the Bufferlands



Volunteers gather at the celebration to create sculptures for the "Junk & Gunk Contest"

**For sponsorship information contact:**

**Alta Tura**

**(916) 454-4544 or**

**saccreekweek@gmail.com**

**Volunteers are priceless, but the financial support from you and others like you make it possible** for Creek Week to grow and improve year after year.

<b>Sponsorship Levels &amp; Benefits</b>	<b>Platinum \$2,000 or more</b>	<b>Gold \$750 to \$1,999</b>	<b>Silver \$500 to \$749</b>	<b>Bronze \$250 to \$499</b>
Sponsor name on Creek Week brochures, posters, newsletters and web site	✓	✓	✓	✓
Event recognition at the Splash Off and Celebration Day	✓	✓	✓	✓
Your logo on the Creek Week T-shirt	✓	✓		
Prominent placement of your company/organization's name on the Creek Week brochure	✓	✓		
Recognition in the full color ad in The Sacramento Bee celebrating Creek Week	✓			

## Benefits for ALL Sponsors

Association with a popular, well-organized, beneficial service event that traditionally receives media coverage from television, radio, The Sacramento Bee and special interest publications

The knowledge that your sponsorship supports Sacramento Area Creeks Council's efforts to protect, preserve and enhance our valuable creek resources while helping to reduce the threat of flooding

## Creek Week 2018 Overview

### Splash Off Friday, April 6

2018 Keynote speaker address and presentation of the Creek Steward Award. Public **recognition of all sponsors** for their contributions.

### Creek Week Activities April 6-14

**Activities** the week before the clean-up showcase the value and ecology of creeks. Learn about plants and animals inhabiting our creeks and their important roles in the ecosystem. Learn how creeks can best be managed and cared for benefitting wildlife and humans alike.

**Theme for 2018 Creek Week:  
"Earth, Water, Sky – Creeks!"**

### Creek Clean-up Day and Celebration Saturday, April 14

Creek Week will culminate on Saturday, April 14, 2018, with volunteers joining to **clear trash from more than 80 different creek sites in Sacramento County**. Volunteers also remove invasive nonnative plants that choke local waterways. Others collect meaningful data as Citizen Scientists. Clean-up activities help improve the riparian habitat along many stream and creek corridors, provide opportunities to connect people to their natural environment, increase awareness for water conservation, and reduce flood risk. The clean-up is followed by a **celebration** at Carmichael Park - complete with food, entertainment, interactive exhibits & contests.

# Sacramento Area Creeks Council

PO Box 162774 • Sacramento, CA 95816

[www.saccreeks.org](http://www.saccreeks.org) • [www.creekweek.net](http://www.creekweek.net)

(916) 454-4544

Earth, Water, Sky – Creeks!



## Creek Week 2018 Sponsorship Form

Please email this form to [saccreekweek@gmail.com](mailto:saccreekweek@gmail.com) or fax to **(916) 454-4544** and/or mail with your check to **PO Box 162774, Sacramento, CA 95816**.

**Amount of your tax deductible contribution \$** \_\_\_\_\_

Please make check payable to **Sacramento Area Creeks Council**, a 501 (c)(3) nonprofit organization. **Contributions are tax deductible: Fed. ID # 26-3676166**

- Check enclosed**       **Check to follow**

To pay by credit card use our PayPal account at [www.creekweek.net](http://www.creekweek.net).  
Click on the “Donate” button.

**We will provide in-kind services valued at \$** \_\_\_\_\_ Services include:

\_\_\_\_\_

### Sponsor Information:

Company/Group Name: \_\_\_\_\_

Website: \_\_\_\_\_

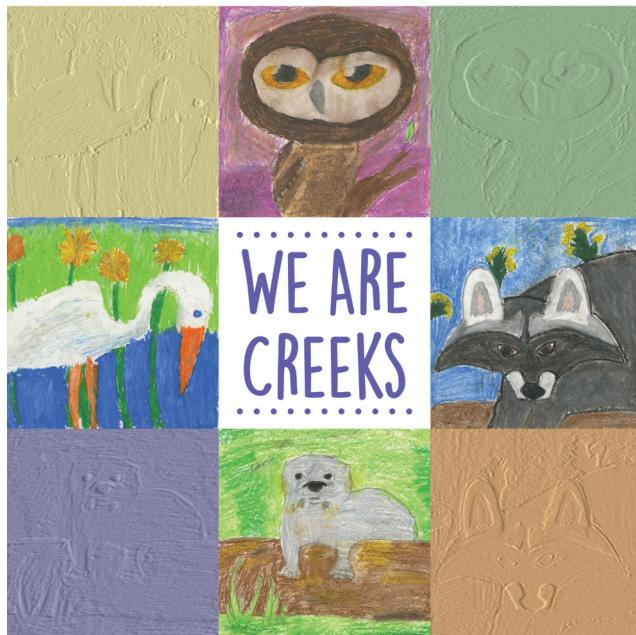
Contact Name and Title: \_\_\_\_\_

<b>Sponsorship Levels &amp; Benefits</b>	<b>Platinum \$2,000 or more</b>	<b>Gold \$750 to \$1,999</b>	<b>Silver \$500 to \$749</b>	<b>Bronze \$250 to \$499</b>
Sponsor name on Creek Week brochures, posters, newsletters and web site	✓	✓	✓	✓
Event recognition at the Splash Off and Celebration Day	✓	✓	✓	✓
Your logo on the Creek Week T-shirt	✓	✓		
Prominent placement of your company/organization's name on the Creek Week brochure	✓	✓		
Recognition in the full color ad in The Sacramento Bee celebrating Creek Week	✓			

To ensure visibility in Creek Week promotional materials, please return this Sponsorship form by **January 3**.

## Creek Week 2017

A Sacramento Area Creeks Council Event • April 21<sup>st</sup>-29<sup>th</sup>



### **CREEK WEEK ACTIVITIES:**

Join the fun and adventure of the week's activities, beginning April 21. Call 454-4544 for information on creek walks, wetland tours, vernal pool walks, and more.

**Creek Week Cleanup: 9:00 a.m. Saturday, April 29.**  
**Call 454-4544 to volunteer or register online**  
**at [www.creekweek.net](http://www.creekweek.net) by April 28.**

Volunteer creek cleaners will be rewarded with a picnic, live entertainment and more at the Celebration beginning at 12:00 at Carmichael Park.

### **SPECIAL THANKS TO OUR PLATINUM SPONSORS**

- County of Sacramento
- California Department of Water Resources
- Sacramento Area Flood Control Agency
- Sacramento Area Sewer District
- Reclamation District 1000
- CalRecycle
- California American Water
- Delta Conservancy
- Arcade Creek Recreation & Park District
- ESA
- American River Flood Control District
- City of Sacramento
- City of Folsom
- City of Rancho Cordova
- City of Citrus Heights
- Water Forum
- Sacramento Regional Conservation Corps
- HDR, Inc.
- The Sacramento Bee
- KVIE Public Television





**Invoices Paid**

	DATE	AMOUNT	CHECK #
Quickbooks (Trustees)	11/21/17	\$16.25	EFT
HSA (Employee)	11/27/17	\$150.00	EFT
Quickbooks (Employees)	11/30/17	\$105.00	EFT
	<b>Total</b>	<b>\$271.25</b>	

**Trustee Compensation**

	DATE	GROSS	NET	CHK#
<b>11/17/17 Board Meeting</b>				
Holloway, Brian F	11/22/17	\$95.00	\$86.88	Direct Dep
Johns, Steven T	11/22/17	\$95.00	\$86.87	Direct Dep
Pavao, William J	11/22/17	\$95.00	\$86.88	Direct Dep
Redway, Bettina C	11/22/17	\$95.00	\$86.88	Direct Dep
Shah, Cyril A	11/22/17	\$95.00	\$86.88	Direct Dep
	<b>Total</b>	<b>\$475.00</b>	<b>\$434.39</b>	

**Trustee Taxes**

	DATE	AMOUNT	CHK#
<b>11/17/17 Board Meeting</b>			
Federal Tax Payment	11/24/17	\$72.68	EFT
CA Withholding & SDI	11/24/17	\$4.27	EFT
CA UI & ETT	11/24/17	\$8.54	EFT
	<b>Total</b>	<b>\$85.49</b>	

**Payroll Summary**

	DATE	GROSS	NET	CHK#
<b>PP ending 11/15/17</b>				
Malane Chapman	11/16/17	2946.24	1930.98	Direct Dep
Elvin Diaz	11/16/17	1998.48	1470.88	Direct Dep
David Diaz	11/16/17	2221.12	1577.48	Direct Dep
Gilberto Gutierrez	11/16/17	2493.04	1542.58	Direct Dep
Ross Kawamura	11/16/17	3784.00	2063.79	Direct Dep
Tim Kerr	11/16/17	6851.08	5287.34	Direct Dep
Erich Quiring	11/16/17	2221.12	1425.83	Direct Dep
Jose Ramirez	11/16/17	2493.04	1808.65	Direct Dep
<b>PP ending 11/30/17</b>				
Malane Chapman	12/1/17	2946.24	1930.97	Direct Dep
Elvin Diaz	12/1/17	1998.48	1470.89	Direct Dep
David Diaz	12/1/17	2221.12	1577.49	Direct Dep
Gilberto Gutierrez	12/1/17	2493.04	1542.56	Direct Dep
Ross Kawamura	12/1/17	3784.00	2063.80	Direct Dep
Tim Kerr	12/1/17	6851.08	5287.34	Direct Dep
Erich Quiring	12/1/17	2221.12	1425.83	Direct Dep
Jose Ramirez	12/1/17	2493.04	1808.65	Direct Dep
	<b>Total</b>	<b>\$50,016.24</b>	<b>\$34,215.06</b>	

**Employee & Relief GM Taxes**

	DATE	AMOUNT	CHK#
<b>PP ending 11/15/17</b>			
Federal Tax Payment	11/16/17	\$5,836.18	EFT
CA Withholding & SDI	11/16/17	\$1,085.16	EFT
CA UI & ETT	11/16/17	\$0.00	EFT
<b>PP ending 11/30/17</b>			
Federal Tax Payment	12/1/17	\$5,836.16	EFT
CA Withholding & SDI	12/1/17	\$1,085.17	EFT
CA UI & ETT	12/1/17	\$0.00	EFT
	<b>Total</b>	<b>\$13,842.67</b>	

**Employee Pension**

	DATE	AMOUNT	CHK#
<b>PP ending 11/15/17</b>			
PERS Retirement Contribution (Unfunded Liability)	11/16/17	\$3,226.37	EFT
PERS Retirement Contribution	11/16/17	\$3,717.83	EFT
457 Deferred Comp (Employee Paid)	11/16/17	\$1,868.96	EFT
457 District Contribution	11/16/17	\$80.00	EFT
<b>PP ending 11/30/17</b>			
PERS Retirement Contribution	12/1/17	\$3,717.81	EFT
457 Deferred Comp (Employee Paid)	12/1/17	\$1,868.96	EFT
457 District Contribution	12/1/17	\$80.00	EFT
	<b>Total</b>	<b>\$14,559.94</b>	

<b>Total of Invoices Paid and Payroll</b>	<b>\$63,408.80</b>
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**American River Flood Control District  
Central Valley Flood Protection Board Permit Application  
1870 Claremont Road**

**Staff Report**

**Discussion:**

The parcel owner at 1870 Claremont Road in Carmichael California seeks to obtain an encroachment permit to construct a home remodel and expansion. The parcel is located on the waterside of the District levee and is within the American River designated floodway. The elevation of the project footprint is above the base flood elevation for the floodway and will not be inundated by the U.S. Army Corps of Engineers project design release of 160,000 cubic feet per second.

The structures to be modified are outside the levee toe area and the proposed work will not have an impact on the District levee.

**Recommendation:**

The General Manager recommends that the Board of Trustees endorse the permit application.

**APPLICATION FOR A CENTRAL VALLEY FLOOD PROTECTION BOARD  
ENCROACHMENT PERMIT**

**Application No.** \_\_\_\_\_  
(For Office Use Only)

1. Description of proposed work being specific to include all items that will be covered under the issued permit.

Construct a home remodel and expansion on the downstream end of the existing home footprint. The remodel includes a raise in finish floor elevation from 64.98 to 65.70 feet NAVD 88 and construction of a new wooden deck with open stair tread and authorization of existing concrete steps, brick patio, wooden stairs, and a three-foot iron fence.

2. Project  
Location: Sutter County, in Section 28  
(N) (E)  
Township: 09 N (S), Range: 06 E (W), M. D. B. & M.  
Latitude: 38.5983 Longitude: -121.3318  
Stream : American River , Levee : Right Bank Designated Floodway: \_\_\_\_\_  
APN: 283-0260-017

3. Casey Kelly of 1870 Claremont Road  
Name of Applicant / Land Owner Address  
Carmichael CA 95864 916-414-1502  
City State Zip Code Telephone Number  
ckelly@follettusa.com  
E-mail

4. Ric Reinhardt of MBK Engineers  
Name of Applicant's Representative Company  
Sacramento CA 95825 916-456-4400  
City State Zip Code Telephone Number  
reinhardt@mbkengineers.com  
E-mail

5. Endorsement of the proposed project from the Local Maintaining Agency (LMA):

We, the Trustees of American River Flood Control District approve this plan, subject to the following conditions:  
Name of LMA

Conditions listed on back of this form       Conditions Attached       No Conditions

\_\_\_\_\_  
Trustee Date      Trustee Date

\_\_\_\_\_  
Trustee Date      Trustee Date

### APPLICATION FOR A CENTRAL VALLEY FLOOD PROTECTION BOARD ENCROACHMENT PERMIT

6. Names and addresses of adjacent property owners sharing a common boundary with the land upon which the contents of this application apply. If additional space is required, list names and addresses on back of the application form or an attached sheet.

Name	Address	Zip Code
(see attached)		

7. Has an environmental determination been made of the proposed work under the California Environmental Quality Act of 1970?  Yes  No  Pending

If yes or pending, give the name and address of the lead agency and State Clearinghouse Number:

CEQA Lead Agency - Sacramento County, 827 7th Street, Sacramento, CA 95814

SCH No. N/A

8. When is the project scheduled for construction? April 2018

9. Please check exhibits accompanying this application.

- A.  Regional and vicinity maps showing the location of the proposed work.
- B.  Drawings showing plan view(s) of the proposed work to include map scale.
- C.  Drawings showing the cross section dimensions and elevations (vertical datum?) of levees, berms, stream banks, flood plain,
- D.  Drawings showing the profile elevations (vertical datum?) of levees, berms, flood plain, low flow, etc.
- E.  A minimum of four photographs depicting the project site.


11/29/17  
 Signature of Applicant Date

Include any additional information:

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**APPLICATION FOR A CENTRAL VALLEY FLOOD PROTECTION BOARD  
ENCROACHMENT PERMIT**

**Application No.** \_\_\_\_\_  
(For Office Use Only)

1. Description of proposed work being specific to include all items that will be covered under the issued permit.

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City State Zip Code Telephone Number  
ckelly@follettusa.com  
E-mail

4. Ric Reinhardt of MBK Engineers  
Name of Applicant's Representative Company  
Sacramento CA 95825 916-456-4400  
City State Zip Code Telephone Number  
cosio@mbkengineers.com  
E-mail

5. Endorsement of the proposed project from the Local Maintaining Agency (LMA):

We, the Trustees of American River Flood Control District approve this plan, subject to the following conditions:  
Name of LMA

Conditions listed on back of this form  Conditions Attached  No Conditions

\_\_\_\_\_  
Trustee Date Trustee Date

\_\_\_\_\_  
Trustee Date Trustee Date

## APPLICATION FOR A CENTRAL VALLEY FLOOD PROTECTION BOARD ENCROACHMENT PERMIT

6. Names and addresses of adjacent property owners sharing a common boundary with the land upon which the contents of this application apply. If additional space is required, list names and addresses on back of the application form or an attached sheet.

Name	Address	Zip Code
(see attached)		

7. Has an environmental determination been made of the proposed work under the California Environmental Quality Act of 1970?       Yes       No       Pending

If yes or pending, give the name and address of the lead agency and State Clearinghouse Number:

CEQA Lead Agency - Sacramento County, 827 7th Street, Sacramento, CA 95814

SCH No. N/A

8. When is the project scheduled for construction? April 2018

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- D.  Drawings showing the profile elevations (vertical datum?) of levees, berms, flood plain, low flow, etc.
- E.  A minimum of four photographs depicting the project site.

\_\_\_\_\_  
Signature of Applicant

\_\_\_\_\_  
Date

Include any additional information:

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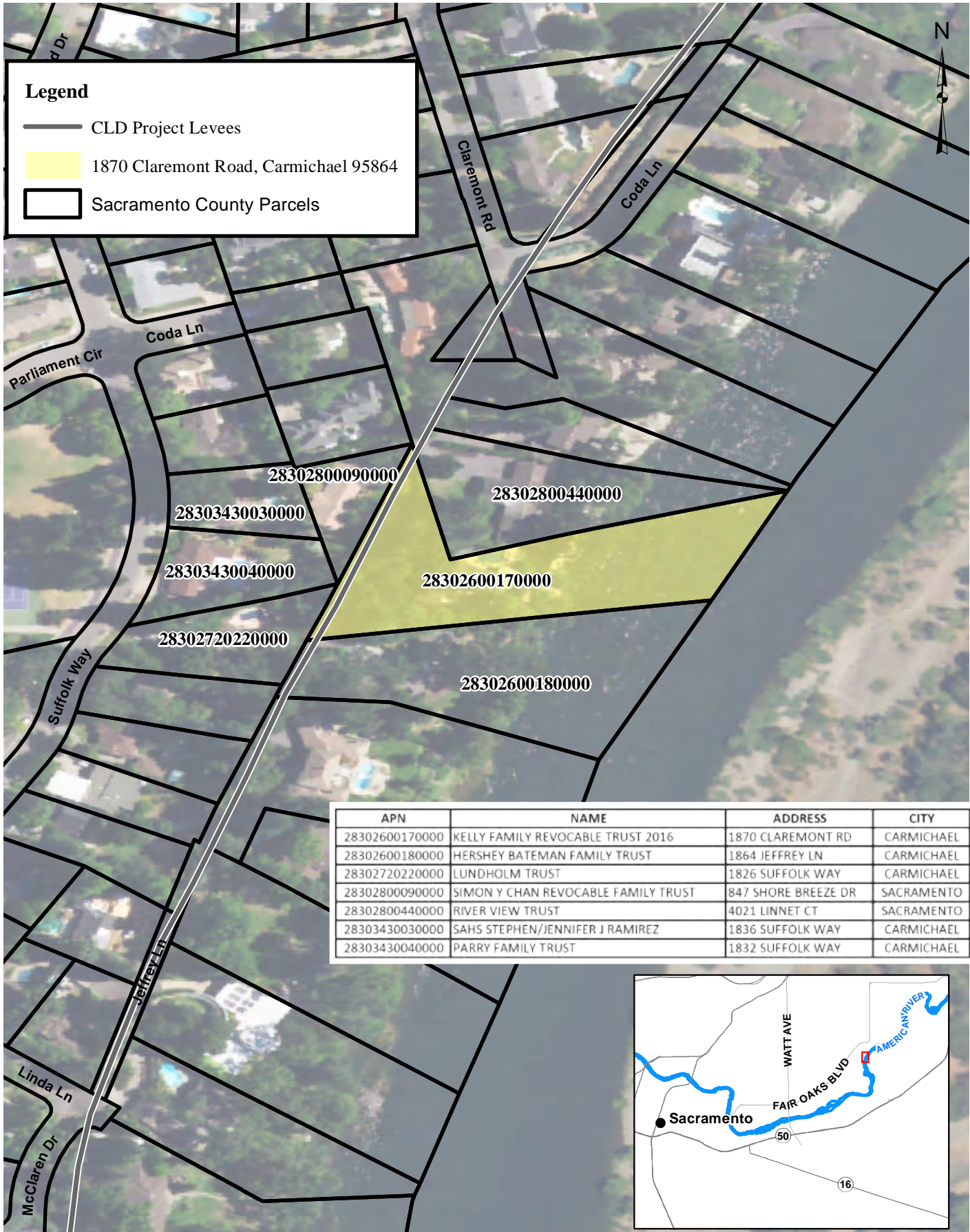
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**Legend**

-  CLD Project Levees
-  1870 Claremont Road, Carmichael 95864
-  Sacramento County Parcels

APN	NAME	ADDRESS	CITY
28302600170000	KELLY FAMILY REVOCABLE TRUST 2016	1870 CLAREMONT RD	CARMICHAEL
28302600180000	HERSHEY BATEMAN FAMILY TRUST	1864 JEFFREY LN	CARMICHAEL
28302720220000	LUNDHOLM TRUST	1826 SUFFOLK WAY	CARMICHAEL
28302800090000	SIMON Y CHAN REVOCABLE FAMILY TRUST	847 SHORE BREEZE DR	SACRAMENTO
28302800440000	RIVER VIEW TRUST	4021 LINNET CT	SACRAMENTO
28303430030000	SAHS STEPHEN/JENNIFER J RAMIREZ	1836 SUFFOLK WAY	CARMICHAEL
28303430040000	PARRY FAMILY TRUST	1832 SUFFOLK WAY	CARMICHAEL



### Encroachment Permit Map





**NAME CHANGE PERMIT FORM**

A Permit Name Change is requested for Permit No. 7081, 7081-A, B

Applicant Information:

Last Name: Kelly First Name: Casey Middle Initial: \_\_\_\_\_

Title: property owner

Firm Name: \_\_\_\_\_

Street Address: 1870 Claremont Road

City, State and Zip: Carmichael, CA 95864

E-mail address: ckelly@follettusa.com

Phone Number: 916-414-1502

Fax Number: \_\_\_\_\_

Location Information:

Section: 28

Township: 09 N

Range: 06 E

County: Sacramento

Stream: American River

Description:

Residential home with proposed remodel (7081), add septic and leach lines to the property (7081-A), and add landscaping features to the property (7081-B).

Local Maintaining Agency: American River Flood Control District

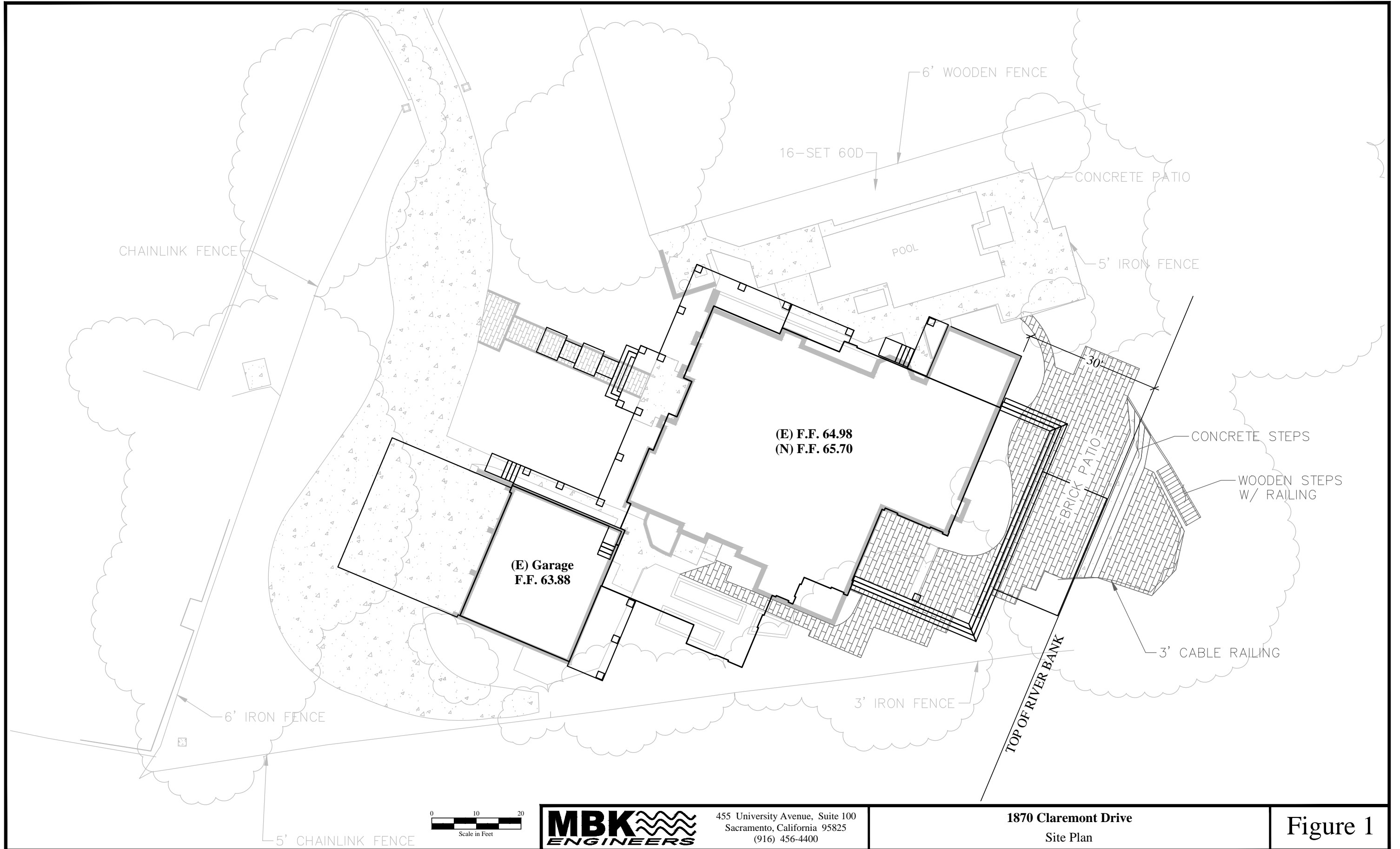
APN: 283-0260-017

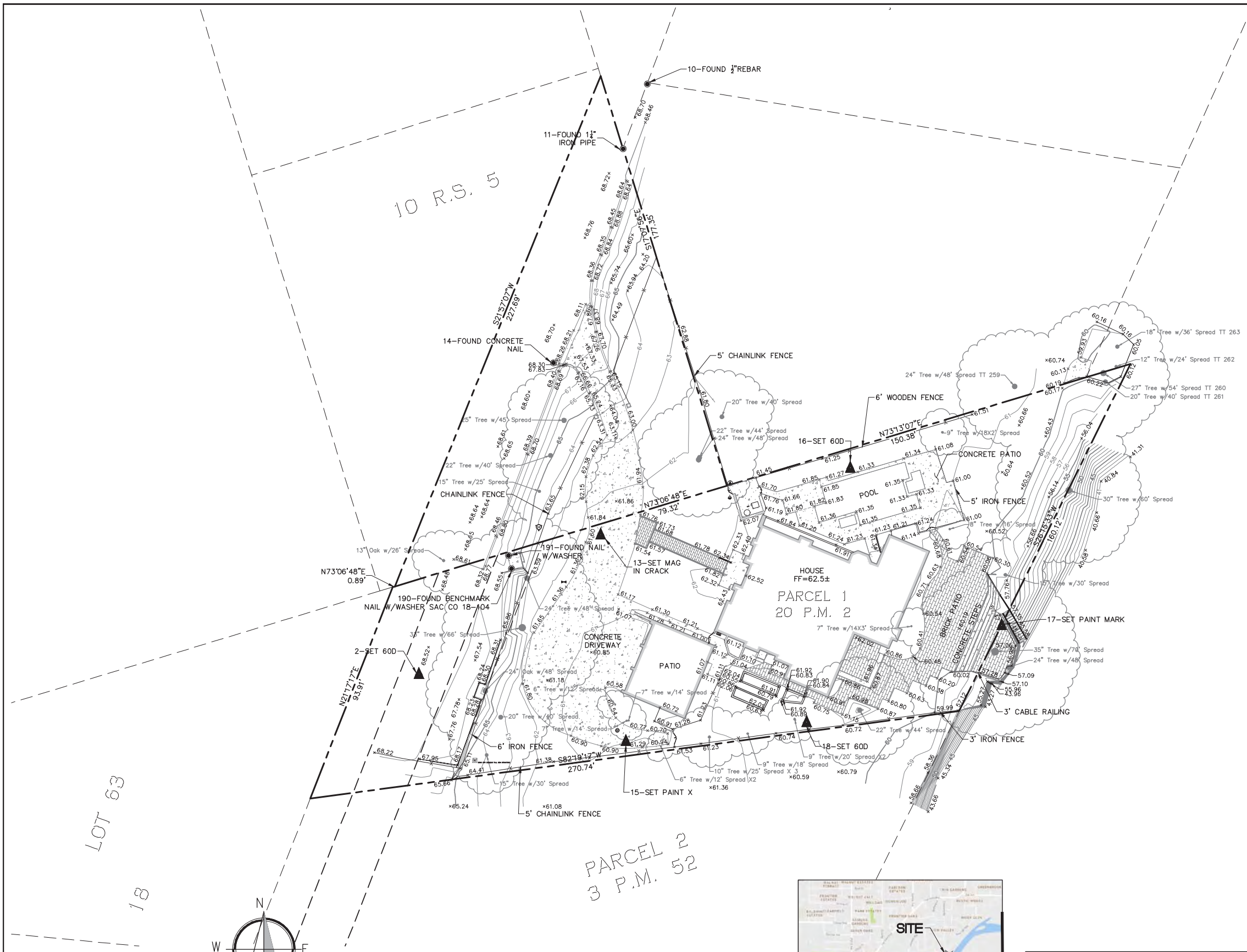
Latitude: 38.5983

Longitude: -121.3318

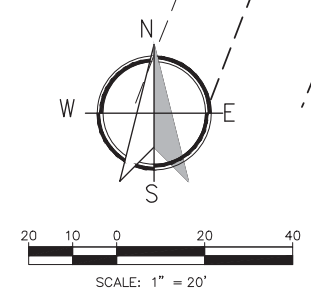
Signature: \_\_\_\_\_

Date: \_\_\_\_\_





LEGEND	
	CONTROL POINT AS NOTED
	TREE AS NOTED
	FOUND MONUMENT AS NOTED
	POWER POLE
	WATER METER BOX
	ELECTRICAL BOX
	SEWER MANHOLE
	STORM MANHOLE
	WATER VALVE
	FIRE HYDRANT
	PVC RISER
	SIGN
	PROPERTY LINE
	RIGHT-OF-WAY LINE
	CENTER LINE
	CONCRETE
FND.	FOUND
FL	FLOWLINE
P.U.E.	PUBLIC UTILITY EASEMENT
P.D.E.	PRIVATE DRAINAGE EASEMENT



**BASIS OF BEARINGS:** THE BASIS OF BEARINGS FOR THIS SURVEY IS IDENTICAL WITH THE NORTHERLY BOUNDARY OF PARCEL 1, "A PORTION OF LOT 1, HAGGIN BOTTOM SUBDIVISION NO. 1" PREPARED BY BAILLIFF & BUTZ, DATED 1/9/1968 (REVISED 10/22/1968), JOB NO. 67136.

**BENCHMARK:** THE BENCHMARK FOR THIS SURVEY IS CONTROL POINT 190, BEING BM 18-104 A CITY OF SACRAMENTO FOUND BENCHMARK, A 3/4" METAL DISC STAMPED "Co. B.M. 18-104" LOCATED IN CHISELED SQUARE TOP OF SOUTHWESTERLY CORNER OF CONCRETE BOX FOR LARGE GATE VALVE APPROXIMATE 20' SOUTHEAST OF LEVEE ON WESTERLY BANK OF AMERICAN RIVER APPROXIMATELY 460' SOUTHWEST OF SOUTH END OF CLAREMONT RD AT CODA LANE AND APPROXIMATELY 0.50 MILE SOUTH OF FAIR OAKS BLVD. ELEVATION=68.56' (NGVD29)



**TOPOGRAPHIC SURVEY**  
**1870 CLAREMONT ROAD**  
**COUNTY OF SACRAMENTO**  
**STATE OF CALIFORNIA**

Scale: 1"=20' Date: APRIL 2017 Revised:  
 P:\Projects\368-003\02 DWG\A- Survey\MASTER\368-003T.dwg, 05-18-17

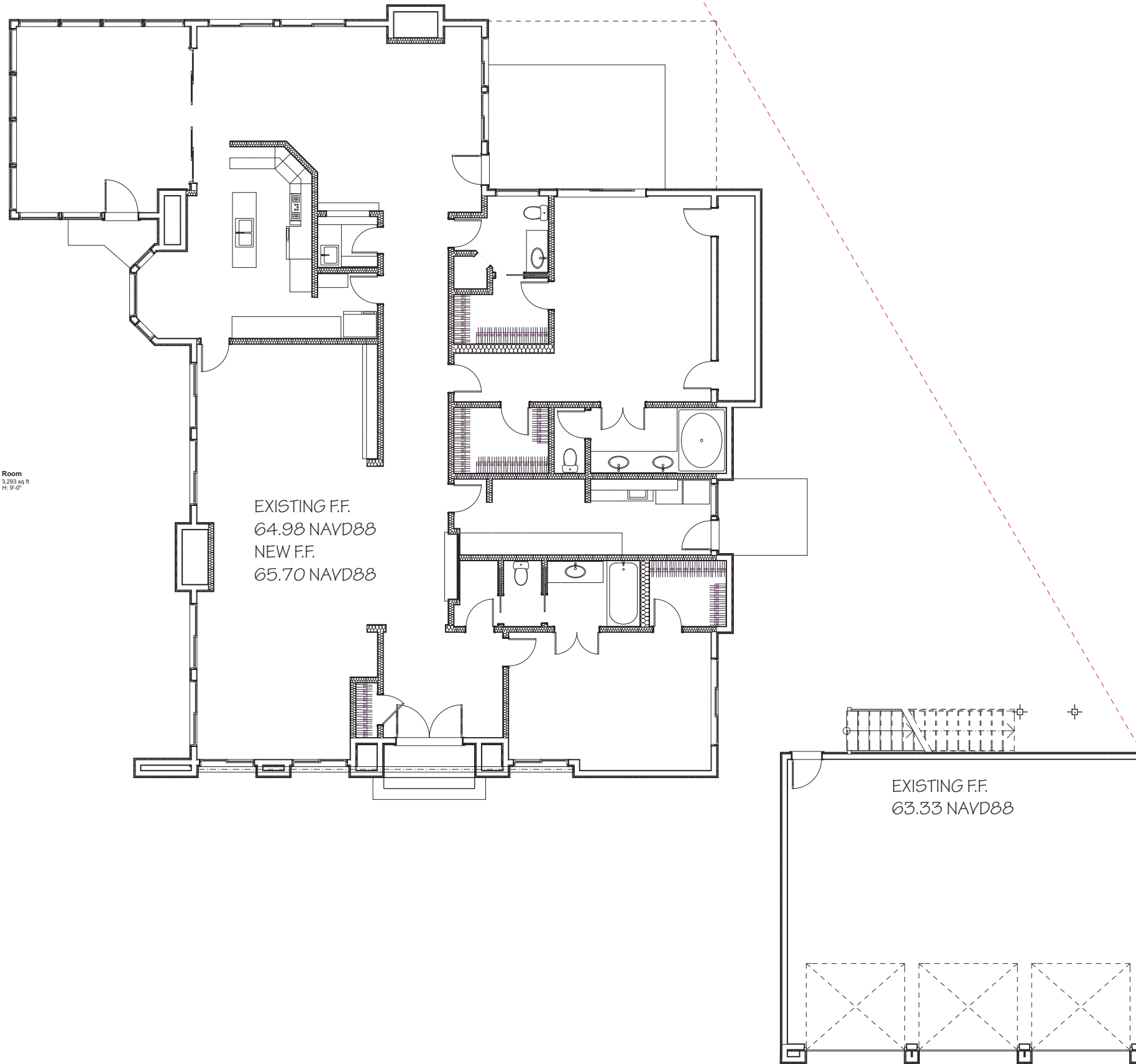
JOB #368-003

**TSD ENGINEERING, INC.**  
 expect more.  
 31 Natoma Street, Suite #160  
 Folsom, CA 95630  
 Phone: (916) 608-0707  
 Fax: (916) 608-0701  
 jklamm@tsdeng.com

Page 9

FLOOR PLAN KEY NOTES

- BATHROOMS**
- 11 ALL WATER CLOSETS OR BIDETS SHALL BE INSTALLED IN AN AREA OF 30" CLEAR, WITH MIN. 24" CLEAR FROM THE FRONT OF THE FIXTURE. THE WATER CLOSET SHALL NOT BE SET CLOSER THAN 15" FROM ITS CENTER TO ANY SIDE WALL OR OBSTRUCTION. 2013 CPC 402.5
  - 12 WATER CLOSET TO BE LOW FLOW WITH A MAXIMUM CAPACITY OF 1.28 GALLONS PER FLUSH. 2013 CPC 403.2
  - 13 PROVIDE INDIVIDUAL CONTROL VALVES OF THE PRESSURE-BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE FOR SHOWER AND TUB/SHOWER COMBINATION. THE DEVICE IS REQUIRED TO LIMIT WATER TEMP TO A MAX. OF 120°. 2013 CPC 408.3
  - 14 WALL SURFACES BEHIND CERAMIC TILE OR OTHER FINISH WALL MATERIAL SUBJECT TO WATER SPLASH ARE TO BE CONSTRUCTED OF MATERIALS NOT ADVERSELY AFFECTED BY WATER. THE USE OF FIBER CEMENT, FIBER MATT REINFORCED CEMENT OR GLASS MATT GYPSUM BACKERS SHALL BE USED AS BACKERS FOR WALL TILE IN TUB AND SHOWER AREAS AND WALL PANELS IN SHOWER AREAS. PER 2013 CRC K702.4.2. WATER RESISTANT GYPSUM BOARD IS NO LONGER PERMITTED TO BE USED IN THESE LOCATIONS.
  - 15 A MINIMUM 30" CIRCLE IS PROVIDED AT THE SHOWER FLOOR. THE MINIMUM FLOOR AREA OF THE SHOWER COMPARTMENT IS 102.4 SQ. INCHES. PER 2013 CPC 408.6
  - 16 SHOWER DOORS TO BE MIN. 22" CLEAR, TEMPERED GLASS.
  - 17 SHOWERS AND TUB/SHOWER COMBINATIONS: PROVIDE A SMOOTH, HARD, NONABSORBENT SURFACE OVER HARDBACKER CEMENT BOARD, OR EQUIVALENT, TO A HEIGHT OF 70" MINIMUM ABOVE DRAIN INLET. SHOWER HEAD +84" (TEMPERED GLASS ENCLOSURE)
  - 18 FIBERGLASS TUB-SHOWER COMBO WITH INTEGRAL SURROUND 70" MIN. ABOVE DRAIN. SHOWER HEAD +84" (CURTAIN KIT AT +50") (CIRCLED TEMPERED GLASS ENCLOSURE, ANODIZED ALUMINUM FRAME)
  - 19 CERAMIC TILE SHOWER AND FLOOR, SHOWER HEAD +84" TEMPERED GLASS ENCLOSURE, ANODIZED ALUMINUM FRAME. HOT MAPPED AS APPROVED BY DEVELOPER.
  - 20 14"x16" SHAMPOO NICHE. BOTTOM AT +54". INSTALL ELASTOMERIC FLASHING IN ENTIRE NICHE PRIOR TO SCOTCH COAT.
- FIREPLACE**
- 21 PRE-FABRICATED FACTORY-BUILT FIREPLACE. INSTALL AND USE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. FIREPLACE MUST BE AN APPROVED UNIT. INCLUDE MANUFACTURER'S NAME, MODEL NUMBER, AND APPROVAL INFORMATION. 2013 CMC 908.2
  - 22 PROVIDE A 6 SQ. INCH FRESH AIR INTAKE FOR THE GAS APPLIANCE FIREPLACE. 2013 I 24
  - 23 THE MINIMUM CLEARANCE FROM THE FIREPLACE AND CHIMNEY TO COMBUSTIBLE MATERIAL IS 2 INCHES. 2013 CRC K1003.1B
  - 24 HEARTH EXTENSIONS SHALL EXTEND AT LEAST 16 INCHES IN FRONT OF AND AT LEAST 8 INCHES BEYOND EACH SIDE OF THE FIREPLACE OPENING. WHERE THE FIREPLACE OPENING IS 5 SQUARE FEET OR LARGER, THE HEARTH EXTENSION SHALL EXTEND AT LEAST 20 INCHES IN FRONT OF AND AT LEAST 12 INCHES BEYOND EACH SIDE OF THE FIREPLACE OPENING. 2013 CRC K1001.8 AND K1001.10.
- GARAGE**
- 25 THE GARAGE AND ITS ATTIC MUST BE SEPARATED FROM THE DWELLING BY 1/2" SHEETROCK ON THE VERTICAL GARAGE SIDE, AND 5/8" TYPE "X" ON THE HORIZONTAL SURFACE BENEATH HABITABLE ROOMS. THE SHEETROCK IS REQUIRED TO EXTEND TO THE ROOF SHEATHING, WHERE APPROPRIATE. 2013 CRC K302.5 AND K302.6
  - 26 HOUSE TO GARAGE DOOR SEPARATION: PROVIDE 1-3/8" IN THICKNESS, SOLID CORE WOOD DOOR, 1-3/8" IN THICKNESS, SOLID OR HONEYCOMB STEEL DOOR, OR APPROVED 20 MINUTE FIRE-RATED DOOR. DOORS SHALL BE SELF-CLOSING AND SELF-LATCHING. 2013 CRC R302.2.1
  - 27 PROVIDE SCREENED, LOW-VOLVED LOW COMBUSTION AIR VENTS. (HIGH AND LOW WHEN FAU IS IN GARAGE.)
  - 28 PROVIDE COMBUSTION AIR OPENINGS FOR GAS-FIRED APPLIANCES WITHIN 12" OF THE FLOOR AND CEILING FOR GAS-BURNING EQUIPMENT. 2013 CMC 701.5
  - 29 BOLLARD: CONCRETE FILLED 3" STANDARD PIPE, 12" EMBEDMENT. LOCATE PER SLAB PERIMETER LAYOUT.
  - 30 APPLIANCES INSTALLED IN GARAGES OR OTHER AREAS WHERE THEY MAY BE SUBJECT TO MECHANICAL DAMAGE SHALL BE SUITABLY GUARDED AGAINST SUCH DAMAGE BY BEING INSTALLED BEHIND PROTECTIVE BARRIERS OR BY BEING ELEVATED OR LOCATED OUT OF THE FLOW OF TRAFFIC. 2013 CPC 507.13, 507.13.1 AND 2013 CMC 308.1.1.
  - 31 SLOPE GARAGE SLAB A MINIMUM OF 1/4" PER FOOT FROM THE HOUSE TO THE MAIN VEHICLE DOOR TO ALLOW FOR SPILLS TO DRAIN. 2013 CRC K309.1.
- GLAZING**
- 32 GLAZING IN HAZARDOUS LOCATIONS IS REQUIRED TO BE GLAZED WITH SAFETY GLAZING. 2013 CRC SECTION R308
  - 33 ANY OPERABLE WINDOW WITH A SILL THAT IS LOCATED LESS THAN 24" ABOVE THE FINISHED FLOOR AND MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW AT THE EXTERIOR, MUST BE PROTECTED BY A GUARD OR HAVE FIXED GLASS. THE GUARD MAY NOT HAVE OPENING THAT A SPHERE 4" IN DIAMETER CAN PASS THROUGH. PER 2013 CRC K312.2, (MUST BE DESIGNED FOR EGRESS IF REQUIRED. CRC 612.2.4), OR BE PROVIDED WITH WINDOW FALL PREVENTION DEVICE THAT COMPLES WITH EITHER CRC R612.3 OR ASTM F 2090. (CRC R612.2)
- KITCHEN**
- 34 VERTICAL CLEARANCE ABOVE THE COOKTOP TO COMBUSTIBLE UNIT IS 30" UNPROTECTED AND 24" PROTECTED. HORIZONTAL DIMENSION IS REQUIRED TO BE PER THE PERMANENT MARKING ON THE UNIT. 2013 CMC 916.1 AND 916.2
  - 35 30" FREE-STANDING GAS/ELEC. RANGE W/ 30" HOOD MICROWAVE LIGHT, EXHAUST FAN ABOVE. VENT PER GENERAL NOTES 07600.
  - 36 DISHWASHER
  - 37 WALL MOUNTED CABINET ABOVE
  - 38 24" DEEP UPPER CABINETS ABOVE REFRIGERATOR
  - 39 UPPER CABINETS SHALL BE A MINIMUM OF 18" ABOVE FINISHED DECK OR THE HOOD IS TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS WITH CLEARANCES AS REQUIRED BY THE RANGE/COOKTOP MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS PER CMC 916 AND UMC 508.6
- LAUNDRY**
- 40 DRYER: PROVIDE DRYER VENT TO THE EXTERIOR OF THE BUILDING. 2013 CMC 504.3
  - 41 DRYER VENT SHALL NOT EXCEED A COMBINED VERTICAL AND HORIZONTAL LENGTH OF 14' INCLUDING TWO (2) 90 DEGREE ELBOWS UNLESS VENT CALCS ARE PROVIDED. 2013 CMC 504.3.1.2
  - 42 BACK-DRAFT DAMPER: IS REQUIRED AT THE DRYER VENT. 2013 CMC 504.3
  - 43 A DOMESTIC CLOTHES DRYER MOISTURE-EXHAUST DUCT SHALL BE 4" IN DIAMETER, TYP. 2013 CRC 504.3.3
  - 44 WASHER DRAIN PAN, DRAIN TO EXTERIOR.
  - 45 TILE DAM AREA BELOW WASHER. DRAIN TO EXTERIOR.
- MECHANICAL/HVAC**
- 46 SEE PLAN FOR MINIMUM FIRST HOUR RECOVERY RATING OF WATER HEATER. PER 2013 CPC 501.1 AND TABLE 501.1
  - 47 FAU IS TO BE INSTALLED WITH THE MINIMUM CLEARANCES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND PER C.M.C. 904.
  - 48 LOCATION OF REQUIRED INDOOR AIR QUALITY FAN AND SPECIFY THE MINIMUM CFM PER THE ENERGY CALCULATIONS. EXHAUST FANS IN ALL BATHROOMS MUST VENT DIRECTLY TO THE EXTERIOR. ALL FANS MUST BE "ENERGY STAR" COMPLIANT AND NOTE THAT UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE-HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY HUMIDISTAT WHICH MUST BE READILY ACCESSIBLE. INDICATE THE LOCATION OF THE HUMIDISTAT CONTROL ON THE ELECTRICAL PLAN AND/OR THE MECHANICAL PLAN. THE HUMIDISTAT CONTROL MUST BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF 30% TO 60%.
  - 49 DASHED LINE INDICATES LINE OF OVERHANG ABOVE.
  - 50 FLAT SOFFIT: SEE INTERIOR ELEVATIONS.
  - 51 LOW WALL HEIGHT AS NOTED W/ DOUBLE TOP FLATE. (2x6 FRAMING, +42" AFF. LIN.O.)
  - 52 LINEN - FIVE (5) 16" DEEP SHELVES, FACE FRAME.
  - 53 PROVIDE SOFFIT ABOVE.
  - 54 ALL TRAY CEILING TO BE FRAMED W/ 2" x 4" ON EDGE OR FOR CEILING HEIGHT, WHERE NOTED, VERIFY ALL CONDITIONS. PROVIDE PERIMETER BLOCKING FOR WALLS OF DRYWALL.
  - 55 PANTRY - FIVE (5) 16" DEEP SHELVES
  - 56 PANTRY - FIVE (5) 16" DEEP SHELVES
  - 57 PANTRY - FIVE (5) 16" DEEP SHELVES
- PLUMBING**
- 58 PLUMBING NOTE: THE TEMP. AND PRESSURE RELIEF SHALL HAVE A FULL SIZED DRAIN OF GALV. STEEL OR HAND DRAWN COPPER TO THE OUTSIDE OF THE BUILDING WITH THE END OF THE PIPE NOT MORE THAN 2'-0" OR LESS THAN 6" ABOVE THE GRADE, POINTING DOWNWARD, THE TERMINAL END BEING UNTHREADED. 2013 CPC 603.5
  - 59 EXTERIOR HOSE BIBBS: PROVIDE WITH NON-REMOVABLE TYPE BACKFLOW PREVENTION DEVICES. 2013 CPC 605.7
  - 60 PROVIDE MINIMUM SEISMIC RESTRAINT REQUIREMENTS FOR ALL WATER HEATERS. THE WATER HEATER IS REQUIRED TO BE STRAPPED AT THE UPPER AND LOWER 1/3 OF THE TANK. 4" MINIMUM SHALL BE MAINTAINED BETWEEN THE STRAP AND THE WATER HEATER CONTROLS. 2013 CPC 507.2.
  - 61 WATER HEATERS LOCATED IN ATTICS SHALL BE PROVIDED WITH A 26 GAUGE SHEET METAL PAN WITH A MINIMUM LIFT OF 2" AND A MINIMUM DRAIN EXTENDING TO THE EXTERIOR OF THE STRUCTURE. THE PAN SHALL EXTEND A MINIMUM OF 6" BEYOND THE APPLIANCE ON ALL SIDES. 2013 CPC 507.4
- SLEEPING ROOMS**
- 62 EMERGENCY EGRESS: ONE EGRESS IN EACH SLEEPING AREA SHALL COMPLY WITH GOVERNING FIRE AND BUILDING CODES. EGRESS WINDOW SHALL HAVE A NET CLEAR OPENABLE AREA OF 5.7 SQUARE FEET. THE NET CLEAR OPENABLE AREA ON THE FIRST FLOOR MAY BE 5.0 SQUARE FEET. THE MINIMUM NET CLEAR OPENABLE HEIGHT DIMENSION SHALL BE 24" AND THE MINIMUM NET OPENABLE WIDTH DIMENSION SHALL BE 20". EGRESS WINDOW SILL SHALL NOT BE MORE THAN 44" ABOVE THE FINISHED FLOOR TO THE BOTTOM OF THE CLEAR OPENING. PER 2013 CRC K310.1, K310.1.2 AND K310.1.3.
  - 63 WINDOW SILLS ARE A MINIMUM OF 24" ABOVE THE FINISHED FLOOR.
  - 64 ANY OPERABLE WINDOW WITH A SILL THAT IS LOCATED LESS THAN 24" ABOVE THE FINISHED FLOOR AND MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW AT THE EXTERIOR, MUST BE PROTECTED BY A GUARD OR HAVE FIXED GLASS. THE GUARD MAY NOT HAVE OPENING THAT A SPHERE 4" IN DIAMETER CAN PASS THROUGH. PER 2013 CRC K312.2.
  - 65 LABELED SAFETY GLASS (CRC K308.1) IS REQUIRED IN GLAZING ADJACENT TO STAIRWAYS, RAMPS OR LANDINGS WITH 36 INCHES HORIZONTALLY OF THE WALKING SURFACE WHERE THE BOTTOM OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE. (CRC 308-4 #7)
- STAIRS**
- 66 THE ENCLOSED USABLE SPACE UNDER THE STAIRS IS REQUIRED TO BE PROTECTED BY 1/2" SHEETROCK. 2013 CRC K302.7
  - 67 THE MINIMUM HEADROOM VERTICALLY FROM A LINE INTERSECTING THE NOSING OF THE STAIRS IS 6 FEET 8 INCHES. 2013 CRC K311.7.2
  - 68 STAIRS TO PROVIDE THE REQUIRED MINIMUM WIDTH OF 44 INCHES OR 36 INCHES (49 OCCUPANTS OR LESS). 2013 CRC K311.7.1
  - 69 THE GUARDRAIL, STAIR HANDRAIL, OR BALCONY RAILING IS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 200 LBS. 2013 CRC TABLE R301.5 AND CRC 1607.7.1.2
  - 70 THE GUARDRAIL SHALL NOT ALLOW A 6 INCH DIAMETER SPHERE TO PASS THROUGH THE TRIANGULAR AREA FORMED BY THE RISER, TREAD, AND BOTTOM ELEMENT OF THE GUARDRAIL. 2013 CRC K312.1.3 EXCEPTION #1.
  - 71 A HANDRAIL IS REQUIRED ALONG A STAIRWAY IF IT IS REQUIRED TO BE 34 TO 38 INCHES ABOVE THE NOSING OF THE STEPS AND IF THE SIDE IS OPEN. THE MAXIMUM SIZE OF AN OPENING IN THE RAILING OF THE STAIRWAY IS 4 3/8 INCHES. 2013 CRC K311.7.8 AND K312.3.3 EXCEPTION #2.
  - 72 THE MAXIMUM RISE OF A STEP IS 7 3/4 INCHES AND THE MINIMUM RUN IS 10 INCHES. 2013 CRC K311.7.5.1 AND K311.7.5.2
  - 73 A 42 INCH HIGH GUARDRAIL IS REQUIRED WHERE STEP IS GREATER THAN 30 INCHES TO FLOOR OR GRADE BELOW. THE HORIZONTAL SPACING BETWEEN VERTICAL MEMBERS SHALL BE A MAXIMUM OF 4 INCHES. 2013 CRC K312.1.2 AND K312.1.3
  - 74 THE GUARDRAIL HEIGHT AT THE STAIRS MAY BE 34 TO 38 INCHES WHEN THE TOP RAIL OF THE GUARDRAIL ALSO SERVES AS THE HANDRAIL. THE HORIZONTAL SPACING BETWEEN THE VERTICAL MEMBERS SHALL BE A MAXIMUM OF 4 3/8 INCHES. 2013 CRC K312.1.2 AND K312.1.3 EXCEPTION #2.
  - 75 THE DIFFERENCE BETWEEN THE LARGEST AND SMALLEST RISER SHALL NOT EXCEED 3/8 INCHES. 2013 CRC K311.7.5.1
  - 76 CURVED STAIR TREAD TO HAVE A MINIMUM RUN OF 11" AT POINT 12" FROM THE LEADING EDGE, BUT NOT LESS THAN 10". 2013 CRC K311.7.4
  - 77 WINDING STAIR TREAD TO HAVE A MINIMUM TREAD DEPTH OF 6 INCHES MINIMUM. WINDING STAIRS SHALL HAVE A MINIMUM WIDTH AND REQUIRED TREAD DEPTH AT POINT 12 INCHES FROM THE EDGE. 2013 CRC K311.7.5.2.1



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**CASEY AND JOAN KELLY**

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SHEET CONTENT:  
**EXISTING MAIN FLOOR PLAN**

SCALE: 1/4" = 1'-0"

DATE: NOVEMBER 10, 2016

REVISIONS:

FILE: KELLY RESIDENCE

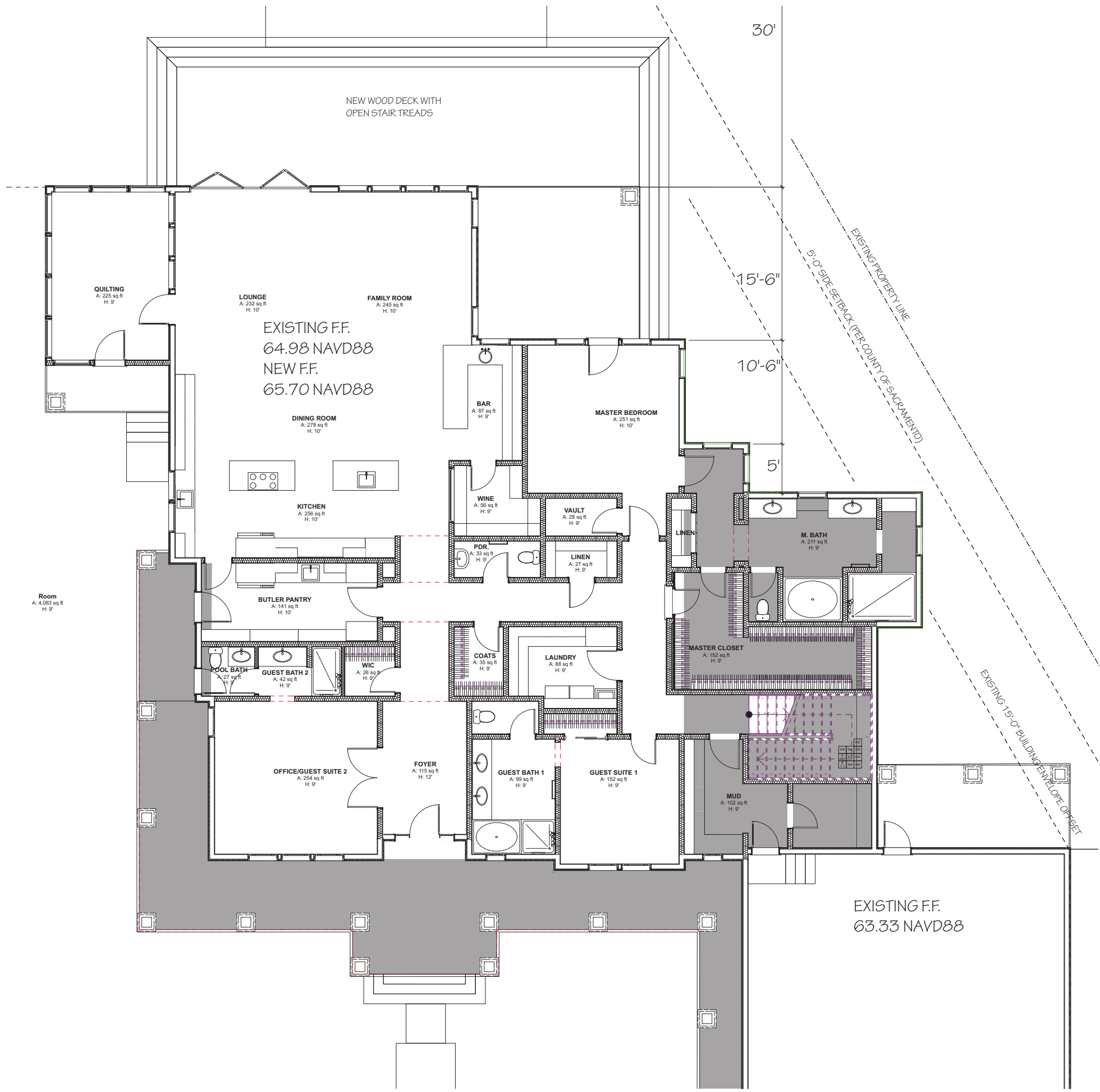
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EXISTING MAIN FLOOR PLAN

SCALE: 1/4" = 1'-0"



- FLOOR PLAN KEY NOTES**
- 11 ALL WATER CLOSETS OR BIDETS SHALL BE INSTALLED IN AN AREA OF 30" CLEAR, WITH MIN. 24" CLEAR FROM THE FRONT OF THE FIXTURE. THE WATER CLOSET SHALL NOT BE SET CLOSER THAN 15" FROM ITS CENTER TO ANY SIDE WALL OR OBSTRUCTION. 2013 CPC 402.5
  - 12 WATER CLOSET TO BE LOW FLOW WITH A MAXIMUM CAPACITY OF 1.28 GALLONS PER FLUSH. 2013 CPC 403.2
  - 13 PROVIDE INDIVIDUAL CONTROL VALVES OF THE PRESSURE-BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE FOR SHOWER AND TUB/SHOWER COMBINATION. THE DEVICE IS REQUIRED TO LIMIT WATER TEMP TO A MAX. OF 120°. 2013 CPC 408.3
  - 14 WALL SURFACES BEHIND CERAMIC TILE OR OTHER FINISH WALL MATERIAL SUBJECT TO WATER SPLASH ARE TO BE CONSTRUCTED OF MATERIALS NOT ADVERSELY AFFECTED BY WATER. THE USE OF FIBER CEMENT, FIBER MESH REINFORCED CEMENT OR GLASS MESH GYPSUM BACKERS SHALL BE USED AS BACKERS FOR WALL TILE IN TUB AND SHOWER AREAS AND WALL PANELS IN SHOWER AREAS. PER 2013 CRC K702.4.2. WATER RESISTANT GYPSUM BOARD IS NO LONGER PERMITTED TO BE USED IN THESE LOCATIONS.
  - 15 A MINIMUM 30" CIRCLE IS PROVIDED AT THE SHOWER FLOOR. THE MINIMUM CLEARANCE OF THE SHOWER COMPARTMENT IS 1024 SQ. INCHES. PER 2013 CPC 408.6
  - 16 SHOWER DOORS TO BE MIN. 22" CLEAR, TEMPERED GLASS.
  - 17 SHOWERS AND TUB/SHOWER COMBINATIONS: PROVIDE A SMOOTH, HARD, NONABSORBENT SURFACE OVER HANDBACKER CEMENT BOARD, OR EQUIVALENT, TO A HEIGHT OF 70" MINIMUM ABOVE DRAIN INLET. SHOWER HEAD +84". (TEMPERED GLASS ENCLOSURE)
  - 18 FIBERGLASS TUB-SHOWER COMBO WITH INTEGRAL SURROUND 70" MIN. ABOVE DRAIN. SHOWER HEAD +84" (CURTAIN ROD AT +57") (ENCLOSED TEMPERED GLASS ENCLOSURE, ANODIZED ALUMINUM FRAME)
  - 19 CERAMIC TILE SHOWER AND FLOOR, SHOWER HEAD +84" TEMPERED GLASS ENCLOSURE, ANODIZED ALUMINUM FRAME. HOT MOLDED AS APPROVED BY DEVELOPER.
  - 20 14" X 16" SHAMPOO NICHE. BOTTOM AT +54". INSTALL ELASTOMERIC FLASHING IN ENTIRE NICHE PRIOR TO SCRATCH COAT.
  - 21 FIREPLACE
  - 22 PRE-FABRICATED FACTORY-BUILT FIREPLACE. INSTALL AND USE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. FIREPLACE MUST BE AN APPROVED UNIT INCLUDE MANUFACTURER'S NAME, MODEL NUMBER, AND APPROVAL INFORMATION. 2013 CMC 908.2
  - 23 PROVIDE A 6 SQ. INCH FRESH AIR INTAKE FOR THE GAS APPLIANCE FIREPLACE. 2013 I 24
  - 24 THE MINIMUM CLEARANCE FROM THE FIREPLACE AND CHIMNEY TO COMBUSTIBLE MATERIAL IS 2 INCHES. 2013 CRC K1003.1B
  - 25 HEARTH EXTENSIONS SHALL EXTEND AT LEAST 16 INCHES IN FRONT OF AND AT LEAST 12 INCHES BEYOND EACH SIDE OF THE FIREPLACE OPENING. WHERE THE HEARTH EXTENSION SHALL EXTEND AT LEAST 20 INCHES IN FRONT OF AND AT LEAST 12 INCHES BEYOND EACH SIDE OF THE FIREPLACE OPENING. 2013 CRC K1001.9 AND K1001.10.
  - 26 GARAGE
  - 27 THE GARAGE AND ITS ATTIC MUST BE SEPARATED FROM THE DWELLING BY 1/2" SHEETROCK ON THE VERTICAL GARAGE SIDE, AND 5/8" TYPE "X" ON THE HORIZONTAL SURFACE BENEATH HABITABLE ROOMS. THE SHEETROCK IS REQUIRED TO EXTEND TO THE ROOF SHEATHING, WHERE APPROPRIATE. 2013 CRC K302.5 AND K302.6
  - 28 HOUSE TO GARAGE DOOR SEPARATION: PROVIDE 1-3/8" IN THICKNESS, SOLID CORE WOOD DOOR, 1 3/8" IN THICKNESS, SOLID OR HONEYCOMB STEEL DOOR, OR APPROVED 20 MINUTE FIRE-RATED DOOR. DOORS SHALL BE SELF-CLOSING AND SELF-LATCHING. 2013 CRC K302.5.1
  - 29 PROVIDE SCREENED, LOW-VOLVED LOW COMBUSTION AIR VENTS. (HIGH AND LOW WHEN FAU IS IN GARAGE.)
  - 30 PROVIDE COMBUSTION AIR OPENINGS FOR GAS FIRED APPLIANCES WITHIN 12" OF THE FLOOR AND CEILING FOR GAS-BURNING EQUIPMENT. 2013 CMC 701.5
  - 31 BOLLARD CONCRETE FILLED 3" STANDARD PIPE, 12" EMBEDMENT. LOCATE PER SLAB PERIMETER LAYOUT.
  - 32 APPLIANCES INSTALLED IN GARAGES OR OTHER AREAS WHERE THEY MAY BE SUBJECT TO MECHANICAL DAMAGE SHALL BE SUITABLY GUARDED AGAINST SUCH DAMAGE BY BEING INSTALLED BEHIND PROTECTIVE BARRIERS OR BY BEING ELEVATED OR LOCATED OUT OF THE FLOW OF VEHICLES. 2013 CPC 507.13, 507.13.1 AND 2013 CMC 308.1.1
  - 33 SLOPE GARAGE SLAB A MINIMUM OF 1/4" PER FOOT FROM THE HOUSE TO THE MAIN VEHICLE DOOR TO ALLOW FOR SPILLS TO DRAIN. 2013 CRC K309.1
  - 34 GLAZING
  - 35 GLAZING IN HAZARDOUS LOCATIONS IS REQUIRED TO BE GLAZED WITH SAFETY GLAZING. 2013 CRC SECTION K308
  - 36 ANY OPERABLE WINDOW WITH A SILL THAT IS LOCATED LESS THAN 24" ABOVE THE FINISHED FLOOR AND MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW AT THE EXTERIOR, MUST BE PROTECTED BY A GUARD OR HAVE FRIED GLASS. THE GUARD MAY NOT HAVE OPENING THAT A SPHERE 4" IN DIAMETER CAN PASS THROUGH PER 2013 CRC K312.2. (MUST BE DESIGNED FOR GORESS IF REQUIRED. CRC 612.2.4.) OR BE PROVIDED WITH WINDOW FALL PREVENTION DEVICE THAT COMPLIES WITH EITHER CRC R612.3 OR ASTM F 2090. (CRC R612.2)
  - 37 KITCHEN
  - 38 VERTICAL CLEARANCE ABOVE THE COOKTOP TO COMBUSTIBLE UNIT IS 30" UNPROTECTED AND 24" PROTECTED. HORIZONTAL DIMENSION IS REQUIRED TO BE PER THE PERMANENT MARKING ON THE UNIT. 2013 CMC 918.1 AND 918.2
  - 39 30" FREE STANDING GAS/ELEC. RANGE W/ 30" HOOD MICROWAVE, LIGHT, EXHAUST FAN ABOVE. VENT PER GENERAL NOTES 07600.
  - 40 DISHWASHER
  - 41 WALL MOUNTED CABINET ABOVE
  - 42 24" DEEP UPPER CABINETS ABOVE REFRIGERATOR
  - 43 UPPER CABINETS SHALL BE A MINIMUM OF 18" ABOVE FINISHED DECK OR THE HOOD IS TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS WITH CLEARANCES AS REQUIRED BY THE RANGE/COOKTOP MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS PER CMC 916 AND UMC 508.6
  - 44 LAUNDRY
  - 45 DRYER: PROVIDE DRYER VENT TO THE EXTERIOR OF THE BUILDING. 2013 CMC 504.3
  - 46 DRYER VENT SHALL NOT EXCEED A COMBINED VERTICAL AND HORIZONTAL LENGTH OF 14' INCLUDING TWO (2) 90 DEGREE ELBOWS UNLESS VENT CALCS ARE PROVIDED. 2013 CMC 504.3.1.2
  - 47 BACK-DRAFT DAMPER IS REQUIRED AT THE DRYER VENT. 2013 CMC 504.3
  - 48 A DOMESTIC CLOTHES DRYER MOISTURE-EXHAUST DUCT SHALL BE 4" IN DIAMETER. TYP. 2013 CRC 504.3
  - 49 WASHER DRAIN PAN, DRAIN TO EXTERIOR.
  - 50 TILE DAM AREA BELOW WASHER, DRAIN TO EXTERIOR.
  - 51 MECHANICAL/HVAC
  - 52 SEE PLAN FOR MINIMUM FIRST HOUR RECOVERY RATING OF WATER HEATER. PER 2013 CPC 501.1 AND TABLE 501.1
  - 53 FAU IS TO BE INSTALLED WITH THE MINIMUM CLEARANCES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND PER C.M.C. 904.
  - 54 LOCATION OF REQUIRED INDOOR AIR QUALITY FAN AND SPECIFY THE MINIMUM CFM PER THE ENERGY CALCULATIONS.
  - 55 EXHAUST FANS IN ALL BATHROOMS MUST VENT DIRECTLY TO THE EXTERIOR. ALL FANS MUST BE "ENERGY STAR" COMPLIANT AND NOTE THAT UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY HUMIDISTAT WHICH MUST BE READILY ACCESSIBLE. INDICATE THE LOCATION OF THE HUMIDISTAT CONTROL ON THE ELECTRICAL PLAN AND/OR THE MECHANICAL PLAN. THE HUMIDISTAT CONTROL MUST BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE PER TABLE 501.1 AND 501.2.
  - 56 EXTERIOR SUFFIT OR ARCH OVER EXTERIOR ELEVATIONS FOR DIMS.
  - 57 DASHED LINE INDICATES LINE OF OVERHANG ABOVE.
  - 58 FLAT SOFFIT: SEE INTERIOR ELEVATIONS.
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  - 60 LINEN - FIVE (5) 16" DEEP SHELVES, FACE FRAME
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  - 63 PANTRY - FIVE (5) 16" DEEP SHELVES
  - 64 PANTRY - FIVE (5) 16" DEEP SHELVES
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  - 66 PLUMBING NOTE: THE TEMP. AND PRESSURE RELIEF SHALL HAVE A FULL SIZED DRAIN OF GALV. STEEL OR HAND DRAWN COPPER TO THE OUTSIDE OF THE BUILDING WITH THE END OF THE PIPE NOT MORE THAN 2'-0" OR LESS THAN 6" ABOVE THE GRADE, POINTING DOWNWARD, THE TERMINAL END BEING UNTHREADED. 2013 CPC 608.8
  - 67 EXTERIOR HOSE BIBBS: PROVIDE WITH NON-REMOVABLE TYPE BACKFLOW PREVENTION DEVICES. 2013 CPC 605.7
  - 68 PROVIDE MINIMUM SEISMIC RESTRAINT REQUIREMENTS FOR ALL WATER HEATERS. THE WATER HEATER IS REQUIRED TO BE STRAPPED AT THE UPPER AND LOWER 1/3 OF THE TANK. 4" MINIMUM SHALL BE MAINTAINED BETWEEN THE STRAP AND THE WATER HEATER CONTROLS. 2013 CPC 507.2
  - 69 WATER HEATERS LOCATED IN ATTICS SHALL BE PROVIDED WITH A 26 GAUGE SHEET METAL PAN WITH A MINIMUM LIP OF 2" AND A MINIMUM DRAIN EXTENDING TO THE EXTERIOR OF THE STRUCTURE. THE PAN SHALL EXTEND A MINIMUM OF 6" BEYOND THE APPLIANCE ON ALL SIDES. 2013 CPC 507.4
  - 70 SLEEPING ROOMS
  - 71 EMERGENCY EGRESS: ONE SASH IN EACH SLEEPING AREA SHALL COMPLY WITH GOVERNING FIRE AND BUILDING CODES. EGRESS WINDOW SHALL HAVE A NET CLEAR OPENABLE AREA OF 5.7 SQUARE FEET. THE NET CLEAR OPENABLE AREA ON THE FIRST FLOOR MAY BE 5.0 SQUARE FEET. THE MINIMUM NET CLEAR OPENABLE HEIGHT DIMENSION SHALL BE 24" AND THE MINIMUM NET OPERABLE WIDTH DIMENSION SHALL BE 20". EGRESS WINDOW SILL SHALL NOT BE MORE THAN 44" ABOVE THE FINISHED FLOOR TO THE BOTTOM OF THE CLEAR OPENING. PER 2013 CRC K310.1, K310.1.2 AND K310.1.3.
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  - 75 STAIRS
  - 76 THE ENCLOSED USABLE SPACE UNDER THE STAIRS IS REQUIRED TO BE PROTECTED BY 1/2" SHEETROCK. 2013 CRC K302.7
  - 77 THE MINIMUM HEADROOM VERTICALLY FROM A LINE INTERSECTING THE NOSING OF THE STAIRS IS 8 FEET 6 INCHES. 2013 CRC K311.7.2
  - 78 STAIRS TO PROVIDE THE REQUIRED MINIMUM WIDTH OF 44 INCHES OR 36 INCHES (49 OCCUPANTS OR LESS). 2013 CRC K311.7.1
  - 79 THE GUARDRAIL, STAIR HANDRAIL, OR BALCONY RAILING IS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 200 LBS. 2013 CRC TABLE K311.5 AND CRC 1607.7.1.2
  - 80 THE GUARDRAIL SHALL NOT ALLOW A 6 INCH DIAMETER SPHERE TO PASS THROUGH THE TRIANGULAR AREA FORMED BY THE RISER, TREAD, AND BOTTOM ELEMENT OF THE GUARDRAIL. 2013 CRC K312.1.3 EXCEPTION #1.
  - 81 A HANDRAIL IS REQUIRED ALONG A STAIRWAY. IT IS REQUIRED TO BE 34 TO 38 INCHES ABOVE THE NOSING OF THE STEPS AND IF THE SIDE IS OPEN, THE MAXIMUM SIZE OF AN OPENING IN THE RAILING AT THE STAIRWAY IS 4 3/8 INCHES. 2013 CRC K311.7.8 AND K312.3.3 EXCEPTION #2.
  - 82 THE MAXIMUM RISE OF A STEP IS 7 3/4 INCHES AND THE MINIMUM RUN IS 10 INCHES. 2013 CRC K311.7.5.1 AND K311.7.5.2
  - 83 A 42 INCH HIGH GUARDRAIL IS REQUIRED WHERE STEP IS GREATER THAN 50 INCHES TO FLOOR OR GRADE BELOW. THE HORIZONTAL SPACING BETWEEN VERTICAL MEMBERS SHALL BE A MAXIMUM OF 4 INCHES. 2013 CRC K312.1.2 AND K312.1.3
  - 84 THE GUARDRAIL HEIGHT AT THE STAIRS MAY BE 34 TO 38 INCHES WHEN THE TOP RAIL OF THE GUARDRAIL ALSO SERVES AS THE HANDRAIL. THE HORIZONTAL SPACING BETWEEN THE VERTICAL MEMBERS SHALL BE A MAXIMUM OF 4 3/8 INCHES. 2013 CRC K312.1.2 AND K312.1.3 EXCEPTION #2.
  - 85 THE DIFFERENCE BETWEEN THE LARGEST AND SMALLEST RISER SHALL NOT EXCEED 3/8 INCHES. 2013 CRC K311.7.5.1
  - 86 CURVED STAIR TREAD TO HAVE A MINIMUM RUN OF 11" AT A POINT 12" FROM THE LEADING EDGE, BUT NOT LESS THAN 10". 2013 CRC K311.7.4
  - 87 WINDING STAIR TREAD TO HAVE A MINIMUM TREAD DEPTH OF 6 INCHES MINIMUM. WINDING STAIRS SHALL HAVE A MINIMUM WIDTH AND REQUIRED TREAD DEPTH AT A POINT 12 INCHES FROM THE EDGE. 2013 CRC K311.7.5.2.1

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SHEET CONTENT:  
**PROPOSED MAIN FLOOR PLAN**

SCALE: 1/4" = 1'-0"

DATE: NOVEMBER 10, 2016

REVISIONS:

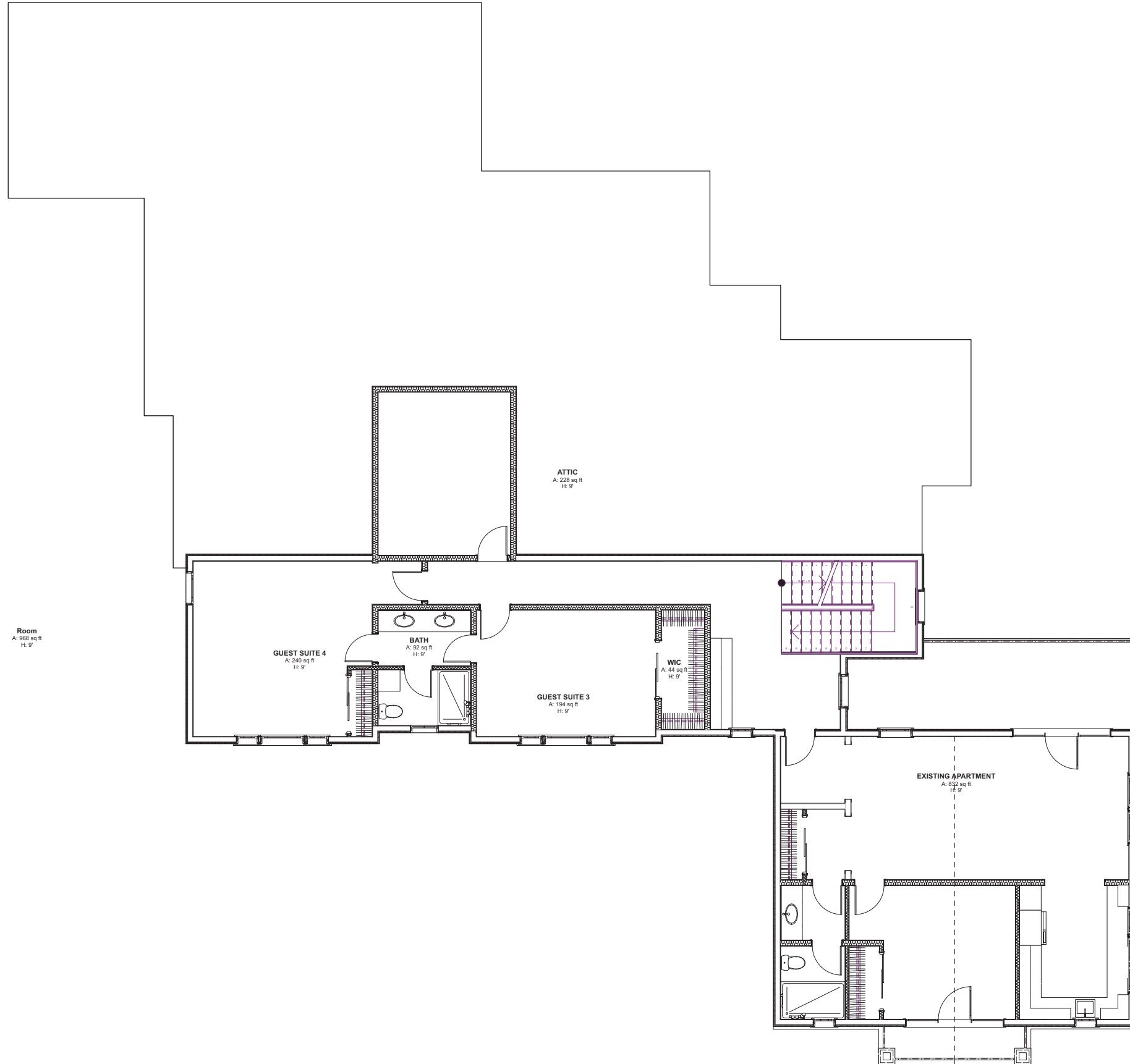
FILE: KELLY RESIDENCE

SHEET NO.:

FLOOR PLAN KEY NOTES

- BATHROOMS**
- 1. ALL WATER CLOSETS OR BIDETS SHALL BE INSTALLED IN AN AREA OF 30" CLEAR, WITH MIN. 24" CLEAR FROM THE FRONT OF THE FIXTURE. THE WATER CLOSET SHALL NOT BE SET CLOSER THAN 15" FROM ITS CENTER TO ANY SIDE WALL OR OBSTRUCTION. 2013 CPC 402.5
  - 2. WATER CLOSET TO BE LOW FLOW WITH A MAXIMUM CAPACITY OF 1.28 GALLONS PER FLUSH. 2013 CPC 403.2
  - 3. PROVIDE INDIVIDUAL CONTROL VALVES OF THE PRESSURE-BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE FOR SHOWER AND TUB/SHOWER COMBINATION. THE DEVICE IS REQUIRED TO LIMIT WATER TEMP TO A MAX. OF 120°. 2013 CPC 408.3
  - 4. WALL SURFACES BEHIND CERAMIC TILE OR OTHER FINISH WALL MATERIAL SUBJECT TO WATER SPLASH ARE TO BE CONSTRUCTED OF MATERIALS NOT ADVERSELY AFFECTED BY WATER. THE USE OF FIBER CEMENT, FIBER MATT REINFORCED CONCRETE OR GLASS MAT GYPSUM BACKERS SHALL BE USED AS BACKERS FOR WALL, TILE IN TUB AND SHOWER AREAS AND WALL PANELS IN SHOWER AREAS. PER 2013 CRC K702.4.2. WATER RESISTANT GYPSUM BOARD IS NO LONGER PERMITTED TO BE USED IN THESE LOCATIONS.
  - 5. A MINIMUM 30" CIRCLE IS PROVIDED AT THE SHOWER FLOOR. THE MINIMUM FLOOR AREA OF THE SHOWER COMPARTMENT IS 102.4 SQ. INCHES. PER 2013 CPC 408.6
  - 6. SHOWER DOORS TO BE MIN. 22" CLEAR, TEMPERED GLASS.
  - 7. SHOWERS AND TUB/SHOWER COMBINATIONS: PROVIDE A SMOOTH, HARD, NONABSORBENT SURFACE OVER HARDBACKER CEMENT BOARD, OR EQUIVALENT, TO A HEIGHT OF 70" MINIMUM ABOVE DRAIN INLET. SHOWER HEAD +84" (TEMPERED GLASS ENCLOSURE)
  - 8. FIBERGLASS TUB-SHOWER COMBO WITH INTEGRAL SURROUND 70" MIN. ABOVE DRAIN. SHOWER HEAD +94" (CURTAIN KIT) OR +80" (CIRCULAR TEMPERED GLASS ENCLOSURE, ANODIZED ALUMINUM FRAME)
  - 9. CERAMIC TILE SHOWER AND FLOOR, SHOWER HEAD +84" TEMPERED GLASS ENCLOSURE, ANODIZED ALUMINUM FRAME. HOT MOLDED AS APPROVED BY DEVELOPER.
  - 10. 14" x 16" SHAMPOO NICHE. BOTTOM AT +54". INSTALL ELASTOMERIC FLASHING IN ENTIRE NICHE PRIOR TO SCRATCH COAT.
- FIREPLACE**
- 11. PRE-FABRICATED FACTORY-BUILT FIREPLACE. INSTALL AND USE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. FIREPLACE MUST BE AN APPROVED UNIT. INCLUDE MANUFACTURER'S NAME, MODEL NUMBER, AND APPROVAL INFORMATION. 2013 CMC 908.2
  - 12. PROVIDE A 6 SQ. INCH FRESH AIR INTAKE FOR THE GAS APPLIANCE FIREPLACE. 2013 I-24
  - 13. THE MINIMUM CLEARANCE FROM THE FIREPLACE AND CHIMNEY TO COMBUSTIBLE MATERIAL IS 2 INCHES. 2013 CRC 1020.18
  - 14. HEARTH EXTENSIONS SHALL EXTEND AT LEAST 16 INCHES IN FRONT OF AND AT LEAST 8 INCHES BEYOND EACH SIDE OF THE FIREPLACE OPENING. WHERE THE FIREPLACE OPENING IS SQUARE FEET OR LARGER, THE HEARTH EXTENSION SHALL EXTEND AT LEAST 20 INCHES IN FRONT OF AND AT LEAST 12 INCHES BEYOND EACH SIDE OF THE FIREPLACE OPENING. 2013 CRC R1001.8 AND R1001.10
- GARAGE**
- 15. THE GARAGE AND ITS ATTIC MUST BE SEPARATED FROM THE DWELLING BY 1/2" SHEETROCK ON THE VERTICAL GARAGE SIDE, AND 5/8" TYPE "X" ON THE HORIZONTAL SURFACE BENEATH HABITABLE ROOMS. THE SHEETROCK IS REQUIRED TO EXTEND TO THE ROOF SHEATHING, WHERE APPROPRIATE. 2013 CRC K302.5 AND K302.6
  - 16. HOUSE TO GARAGE DOOR SEPARATION: PROVIDE 1-3/8" IN THICKNESS, SOLID CORE WOOD DOOR, 1-3/8" IN THICKNESS, SOLID OR HORIZONTAL STEEL DOOR, OR APPROVED 20 MINUTE FIRE-RATED DOOR. DOORS SHALL BE SELF-CLOSING AND SELF-LATCHING. 2013 CRC R302.2.1
  - 17. PROVIDE SCREENED, LOW-VOLVED LOW COMBUSTION AIR VENTS. (HIGH AND LOW WHEN FAU IS IN GARAGE.)
  - 18. PROVIDE COMBUSTION AIR OPENINGS FOR GAS FIRED APPLIANCES WITHIN 12" OF THE FLOOR AND CEILING FOR GAS BURNING EQUIPMENT. 2013 CMC 701.15
  - 19. BOLLARD: CONCRETE FILLED 3" STANDARD PIPE. 1/2" EMBEDMENT. LOCATE PER SLAB PERIMETER LAYOUT.
  - 20. APPLIANCES INSTALLED IN GARAGES OR OTHER AREAS WHERE THEY MAY BE SUBJECT TO MECHANICAL DAMAGE SHALL BE SUITABLY GUARDED AGAINST SUCH DAMAGE BY BEING INSTALLED BEHIND PROTECTIVE BARRIERS OR BY BEING ELEVATED OR LOCATED OUT OF THE FLOW OF VEHICLES. 2013 CPC 507.13, 507.13.1 AND 2013 CMC 308.1.1
  - 21. SLOPE GARAGE SLAB A MINIMUM OF 1/4" PER FOOT FROM THE HOUSE TO THE MAIN VEHICLE DOOR TO ALLOW FOR SPILLS TO DRAIN. 2013 CRC K309.1
- GLAZING**
- 22. GLAZING IN HAZARDOUS LOCATIONS IS REQUIRED TO BE GLAZED WITH SAFETY GLAZING. 2013 CRC SECTION R308
  - 23. ANY OPERABLE WINDOW WITH A SILL THAT IS LOCATED LESS THAN 24" ABOVE THE FINISHED FLOOR AND MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW AT THE EXTERIOR, MUST BE PROTECTED BY A GUARD OR HAVE FIXED GLASS. THE GUARD MAY NOT HAVE OPENING THAT A SPHERE 4" IN DIAMETER CAN PASS THROUGH. PER 2013 CRC K312.2. (MUST BE DESIGNED FOR EGRESS IF REQUIRED. CRC 612.2-4.) OR BE PROVIDED WITH WINDOW FALL PREVENTION DEVICE THAT COMPLIES WITH EITHER CRC R612.3 OR ASTM F 2090. (CRC R612.2)
- KITCHEN**
- 24. VERTICAL CLEARANCE ABOVE THE COOKTOP TO COMBUSTIBLE UNIT IS 30" UNPROTECTED AND 24" PROTECTED. HORIZONTAL DIMENSION IS REQUIRED TO BE PER THE PERMANENT MARKING ON THE UNIT. 2013 CMC 916.1 AND 916.2
  - 25. 30" FREE STANDING GAS/ELEC. RANGE W/ 30" HOOD MICROWAVE, LIGHT, EXHAUST FAN ABOVE. VENT PER GENERAL NOTES 07600.
  - 26. DISHWASHER
  - 27. WALL MOUNTED CABINET ABOVE
  - 28. 24" DEEP UPPER CABINETS ABOVE REFRIGERATOR.
  - 29. UPPER CABINETS SHALL BE A MINIMUM OF 18" ABOVE FINISHED DECK OR THE HOOD IS TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS WITH CLEARANCES AS REQUIRED BY THE RANGE/COOKTOP MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS PER CMC 916 AND UMC 508.6
- LAUNDRY**
- 30. DRYER: PROVIDE DRYER VENT TO THE EXTERIOR OF THE BUILDING. 2013 CMC 504.3
  - 31. DRYER VENT SHALL NOT EXCEED A COMBINED VERTICAL AND HORIZONTAL LENGTH OF 14' INCLUDING TWO (2) 90 DEGREE ELBOWS UNLESS VENT CALCS ARE PROVIDED. 2013 CMC 504.3.1.2
  - 32. BACK-DRAFT DAMPER: IS REQUIRED AT THE DRYER VENT. 2013 CMC 504.3
  - 33. A DOMESTIC CLOTHES DRYER MOISTURE-EXHAUST DUCT SHALL BE 4" IN DIAMETER, TYP. 2013 CRC 504.3
  - 34. WASHER DRAIN PAN, DRAIN TO EXTERIOR.
  - 35. TILE DAM AREA BELOW WASHER. DRAIN TO EXTERIOR.

- MECHANICAL/HVAC**
- 36. SEE PLAN FOR MINIMUM FIRST HOUR RECOVERY RATING OF WATER HEATER. PER 2013 CPC 501.1 AND TABLE 501.1
  - 37. F.A.U.'S TO BE INSTALLED WITH THE MINIMUM CLEARANCES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND PER C.M.C. 904.
  - 38. LOCATION OF REQUIRED INDOOR AIR QUALITY FAN AND SPECIFY THE MINIMUM C.F.M. PER THE ENERGY CALCULATIONS. EXHAUST FANS IN ALL BATHROOMS MUST VENT DIRECTLY TO THE EXTERIOR. ALL FANS MUST BE "ENERGY STAR" COMPLIANT AND NOTE THAT UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY HUMIDISTAT WHICH MUST BE READILY ACCESSIBLE. INDICATE THE LOCATION OF THE HUMIDISTAT CONTROL ON THE ELECTRICAL PLAN AND/OR THE MECHANICAL PLAN. THE HUMIDISTAT CONTROL MUST BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF 30% TO 60%.
  - 39. EXTERIOR SOFFIT OR ARCH: SEE EXTERIOR ELEVATIONS FOR DIMS.
  - 40. DASHED LINE INDICATES LINE OF OVERHANG ABOVE.
  - 41. FLAT SOFFIT: SEE INTERIOR ELEVATIONS.
  - 42. LOW WALL HEIGHT AS NOTED W/ DOUBLE TOP FLATE. (2 x 6 FRAMING, +42" AFF, L.N.O.)
  - 43. LINEN - FIVE (5) 16" DEEP SHELVES, FACE FRAME
  - 44. PROVIDE SOFFIT ABOVE
  - 45. ALL TRAY CEILING TO BE FRAMED W/ 2 x 4 ON EDGE OR FOR CEILING HEIGHT, WHERE NOTED. VERIFY ALL CONDITIONS. PROVIDE PERIMETER BLOCKING FOR WALLING OF DRYWALL
  - 46. PANTRY - FIVE (5) 16" DEEP SHELVES
  - 47. PANTRY - FIVE (5) 16" DEEP SHELVES
- PLUMBING**
- 48. PLUMBING NOTE: THE TEMP. AND PRESSURE RELIEF SHALL HAVE A FULL SIZED DRAIN OF GALV. STEEL OR HAND DRAWN COPPER TO THE OUTSIDE OF THE BUILDING WITH THE END OF THE PIPE NOT MORE THAN 2'-0" OR LESS THAN 6" ABOVE THE GRADE, POINTING DOWNWARD. THE TERMINAL END BEING UNTHREADED. 2013 CPC 605.5
  - 49. EXTERIOR HOSE BIBBS: PROVIDE WITH NON-REMOVABLE TYPE BACKFLOW PREVENTION DEVICES. 2013 CPC 605.5.7
  - 50. PROVIDE MINIMUM SEISMIC RESTRAINT REQUIREMENTS FOR ALL WATER HEATERS. THE WATER HEATER IS REQUIRED TO BE STRAPPED AT THE UPPER AND LOWER 1/3 OF THE TANK. 4" MINIMUM SHALL BE MAINTAINED BETWEEN THE STRAP AND THE WATER HEATER CONTROLS. 2013 CPC 507.2
  - 51. WATER HEATERS LOCATED IN ATTICS SHALL BE PROVIDED WITH A 26 GAUGE SHEET METAL PAN WITH A MINIMUM LIFT OF 2" AND A MINIMUM DRAIN EXTENDING TO THE EXTERIOR OF THE STRUCTURE. THE PAN SHALL EXTEND A MINIMUM OF 6" BEYOND THE APPLIANCE ON ALL SIDES. 2013 CPC 507.4
- SLEEPING ROOMS**
- 52. EMERGENCY EGRESS: ONE SASH IN EACH SLEEPING AREA SHALL COMPLY WITH GOVERNING FIRE AND BUILDING CODES. EGRESS WINDOW SHALL HAVE A NET CLEAR OPENABLE AREA OF 5.7 SQUARE FEET. THE NET CLEAR OPENABLE AREA ON THE FIRST FLOOR MAY BE 5.0 SQUARE FEET. THE MINIMUM NET CLEAR OPENABLE HEIGHT DIMENSION SHALL BE 24" AND THE MINIMUM NET OPENABLE WIDTH DIMENSION SHALL BE 20". EGRESS WINDOW SILL SHALL NOT BE MORE THAN 44" ABOVE THE FINISHED FLOOR TO THE BOTTOM OF THE CLEAR OPENING. PER 2013 CRC K310.1, K310.1.2 AND K310.1.3
  - 53. WINDOW SILLS ARE A MINIMUM OF 24" ABOVE THE FINISHED FLOOR.
  - 54. ANY OPERABLE WINDOW WITH A SILL THAT IS LOCATED LESS THAN 24" ABOVE THE FINISHED FLOOR AND MORE THAN 72" ABOVE FINISHED GRADE OR OTHER SURFACE BELOW AT THE EXTERIOR, MUST BE PROTECTED BY A GUARD OR HAVE FIXED GLASS. THE GUARD MAY NOT HAVE OPENING THAT A SPHERE 4" IN DIAMETER CAN PASS THROUGH. PER 2013 CRC K312.2
  - 55. LABELED SAFETY GLASS (CRC K308.1) IS REQUIRED IN GLAZING ADJACENT TO STAIRWAYS, RAMPS OR LANDINGS WITH 36 INCHES HORIZONTALLY OF THE WALKING SURFACE WHERE THE BOTTOM OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE. (CRC 308-4 #7)
- STAIRS**
- 56. THE ENCLOSED USABLE SPACE UNDER THE STAIRS IS REQUIRED TO BE PROTECTED BY 1/2" SHEETROCK. 2013 CRC K302.7
  - 57. THE MINIMUM HEADROOM VERTICALLY FROM A LINE INTERSECTING THE NOSING OF THE STAIRS IS 8 FEET 8 INCHES. 2013 CRC K311.7.2
  - 58. STAIRS TO PROVIDE THE REQUIRED MINIMUM WIDTH OF 44 INCHES OR 36 INCHES (49 OCCUPANTS OR LESS). 2013 CRC K311.7.1
  - 59. THE GUARDRAIL, STAIR HANDRAIL OR BALCONY RAILING IS DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 200 LBS. 2013 CRC TABLE K311.5 AND CRC 1607.7.1.2
  - 60. THE GUARDRAIL SHALL NOT ALLOW A 6 INCH DIAMETER SPHERE TO PASS THROUGH THE TRIANGULAR AREA FORMED BY THE RISER, TREAD, AND BOTTOM ELEMENT OF THE GUARDRAIL. 2013 CRC K312.1.3 EXCEPTION #1.
  - 61. A HANDRAIL IS REQUIRED ALONG A STAIRWAY. IT IS REQUIRED TO BE 34 TO 38 INCHES ABOVE THE NOSING OF THE STEPS AND IF THE SIDE IS OPEN, THE MAXIMUM SIZE OF AN OPENING IN THE RAILING OF THE STAIRWAY IS 4 3/8 INCHES. 2013 CRC K311.7.8 AND K312.3.3 EXCEPTION #2.
  - 62. THE MAXIMUM RISE OF A STEP IS 7 3/4 INCHES AND THE MINIMUM RUN IS 10 INCHES. 2013 CRC K311.7.5.1 AND K311.7.5.2
  - 63. A 42 INCH HIGH GUARDRAIL IS REQUIRED WHERE STEP IS GREATER THAN 50 INCHES TO FLOOR OR GRADE BELOW. THE HORIZONTAL SPACING BETWEEN VERTICAL MEMBERS SHALL BE A MAXIMUM OF 4 INCHES. 2013 CRC K312.1.2 AND K312.1.3
  - 64. THE GUARDRAIL HEIGHT AT THE STAIRS MAY BE 34 TO 38 INCHES WHEN THE TOP RAIL OF THE GUARDRAIL ALSO SERVES AS THE HANDRAIL. THE HORIZONTAL SPACING BETWEEN THE VERTICAL MEMBERS SHALL BE A MAXIMUM OF 4 3/8 INCHES. 2013 CRC K312.1.2 AND K312.1.3 EXCEPTION #2.
  - 65. THE DIFFERENCE BETWEEN THE LARGEST AND SMALLEST RISER SHALL NOT EXCEED 3/8 INCHES. 2013 CRC K311.7.5.1
  - 66. CURVED STAIR TREAD TO HAVE A MINIMUM RUN OF 11" AT A POINT 12" FROM THE LEADING EDGE, BUT NOT LESS THAN 10". 2013 CRC K311.7.4
  - 67. WINDING STAIR TREAD TO HAVE A MINIMUM TREAD DEPTH OF 6 INCHES MINIMUM. WINDING STAIRS SHALL HAVE A MINIMUM WIDTH AND REQUIRED TREAD DEPTH AT A POINT 12 INCHES FROM THE EDGE. 2013 CRC K311.7.5.2.1



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**CASEY AND JOAN KELLY**

1870 CLAREMONT ROAD  
CARMICHAEL, CA 95864

SHEET CONTENT:  
**PROPOSED UPPER FLOOR**

SCALE: 1/4" = 1'-0"

DATE: NOVEMBER 10, 2016

REVISIONS:

FILE: KELLY RESIDENCE

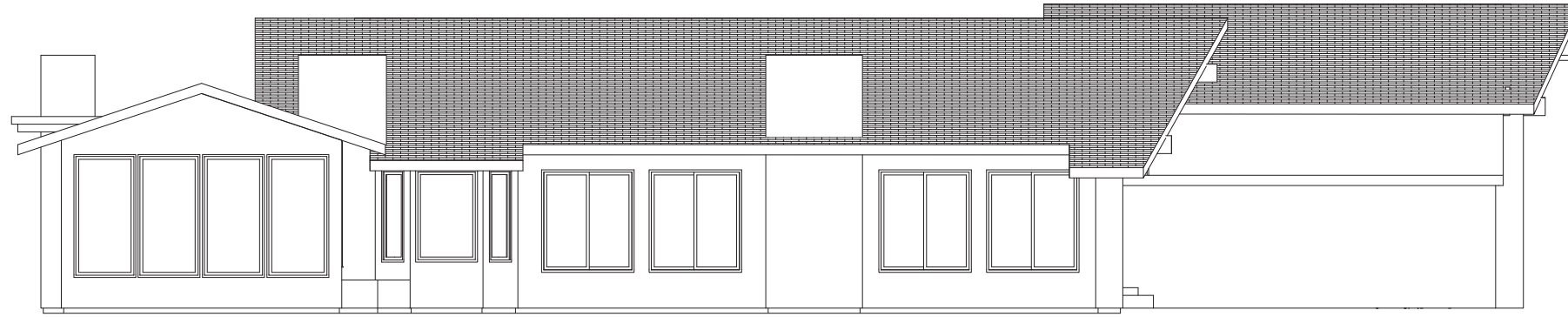
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**A1.03**

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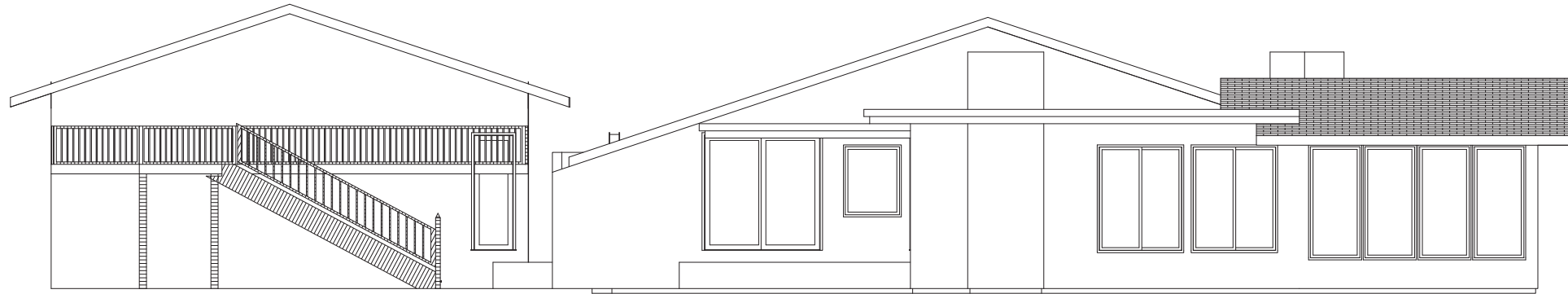
**PROPOSED UPPER FLOOR PLAN**

SCALE: 1/4" = 1'-0"



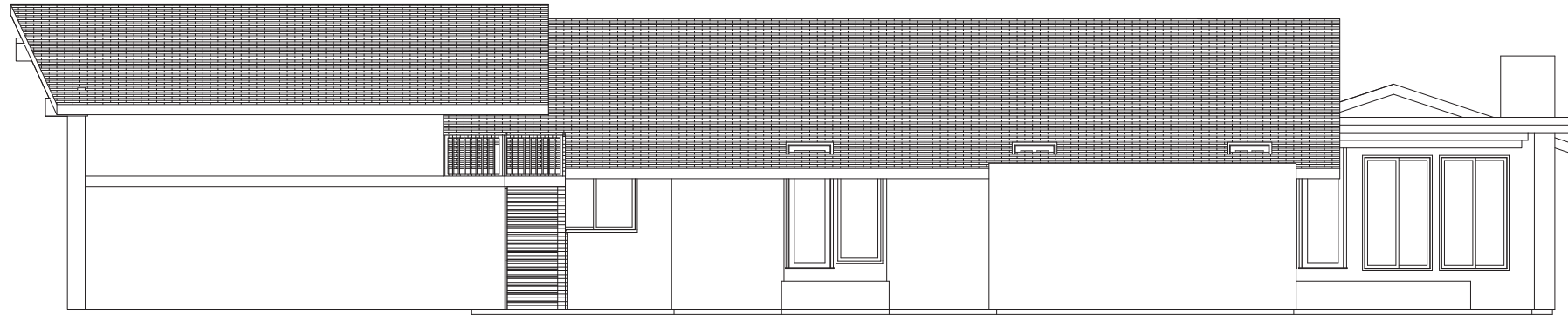
LEFT ELEVATION

SCALE: 1/4" = 1'-0"



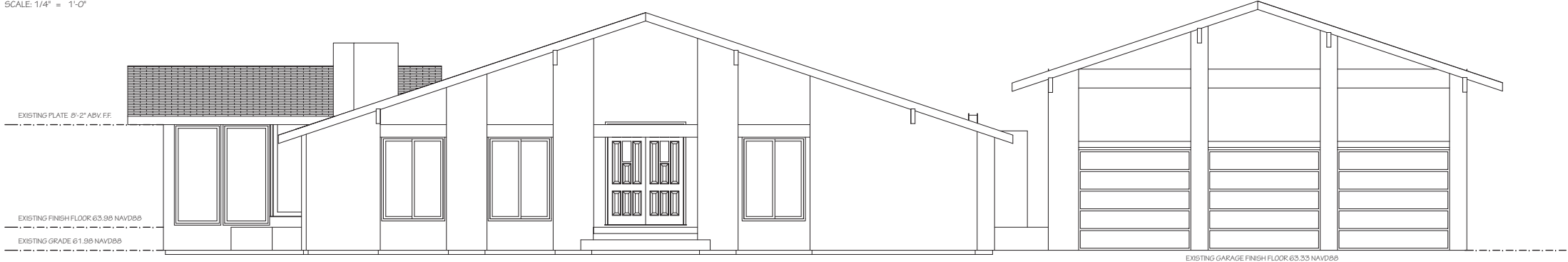
REAR ELEVATION

SCALE: 1/4" = 1'-0"



RIGHT ELEVATION

SCALE: 1/4" = 1'-0"



FRONT ELEVATION

SCALE: 1/4" = 1'-0"

ELEVATION NOTES

- A. REFER TO GENERAL NOTE SHEETS FOR PLAN GENERAL NOTES.
- B. SHOW THE HEIGHTS OF THE BUILDING ABOVE THE ADJACENT FINISH GRADE. PER 2013 CBC R106.1.1.
- C. THE CHIMNEY IS REQUIRED TO EXTEND 2 FEET ABOVE ANY ROOFING WITHIN 10 FEET, BUT NOT LESS THAN 5 FEET ABOVE THE HIGHEST POINT WHERE THE CHIMNEY PASSES THROUGH THE ROOF. PER 2013 CBC R1003.9.
- D. 2 LAYERS OF GRADE D BUILDING PAPER IS REQUIRED TO BE INSTALLED OVER THE WOOD SHEATHING. PER 2013 CBC R703.6.3.
- E. WATER-RESISTIVE BARRIER IS REQUIRED TO BE INSTALLED OVER STUDS OR WOOD SHEATHING OF ALL EXTERIOR WALLS. PER 2013 CBC R703.2.
- F. SURFACE WATER WILL BE DRAINED AWAY FROM THE BUILDING FOR AT LEAST THE FIRST 10 FEET WITH A MINIMUM GRADE OF 6 INCHES. WHERE THIS REQUIREMENT CANNOT BE MET AND ALTERNATE METHOD WILL BE REQUIRED. PER 2013 CBC R401.3.
- G. ALL EXTERIOR WALLS OF THE RESIDENCE THAT ARE LESS THAN 5 FEET, BUT MORE THAN 3 FEET FROM THE PROPERTY LINE ARE REQUIRED TO BE OF ONE HOUR CONSTRUCTION. THIS APPLIES TO BOTH SIDES OF THE WALL. PROVIDE A SECTION OF THE FRAMING AT THE AFFECTED WALLS AND SPECIFY ALL MATERIALS IN THE DETAIL THAT SHOW HOW COMPLIANCE IS PROVIDED. 2013 CBC TABLE K302.1 AND 2013 CBC TABLE 602. FOOTNOTE "N".
- H. SPECIFY BUILDING PAPER TO BE APPLIED TO EXTERIOR WALLS UNDER ALL WOOD SIDING. PER CBC R703.2.
- I. FLASHING AND COUNTERFLASHING SHALL BE INSTALLED AT PARAPETS, ROOF INTERSECTIONS, WHERE EVER THERE IS A CHANGE IN ROOF SLOPE OR DIRECTION AND AROUND ROOF OPENINGS. A FLASHING SHALL BE INSTALLED TO DIVERT THE WATER AWAY FROM WHERE THE EAVE OF A SLOPED ROOF INTERSECTS A VERTICAL SIDEWALL. CRICKETS OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY CHIMNEY OR PENETRATION MORE THAN 30" WIDE AS MEASURED PERPENDICULAR TO THE SLOPE. METAL FLASHING OR CRICKETS SHALL BE CORROSION RESISTANT AND NOT LESS THAN .019 INCH OR 26 GAUGE THICK. 2013 CBC K303.2.1 AND K303.2.2.

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SHEET CONTENT:

**EXISTING ELEVATIONS**

SCALE: 1/4" = 1'-0"

DATE: NOVEMBER 10, 2016

REVISIONS:

FILE: KELLY RESIDENCE

SHEET NO.:

**A2.01**

ELEVATION KEY NOTES

- 1 SURFACE WATER WILL BE DRAINED AWAY FROM THE BUILDING FOR AT LEAST THE FIRST 10 FEET WITH A MINIMUM GRADE OF 6 INCHES. WHERE THIS REQUIREMENT CANNOT BE MET AND ALTERNATE METHOD WILL BE REQUIRED. PER 2013 CRC K401.3.
- 2 EXTERIOR WALLS: 3 COAT STUCCO SYSTEM, MIN. 3/8" THICK, OVER CORROSION RESISTANT EXPANDED METAL OR WOVEN WIRE LATH OVER 1" THICK INSULATION BOARD OVER MIN. 2 LAYERS OF GRADE "D" BUILDING PAPER, WITH CORROSION RESISTANT WEEP SCREED AT BASE. LATH AND PLASTER TO COMPLY WITH CBC CHAPTER 25, PER 2013 CRC K106.1.1 AND CRC SECTION K703.
- 3 ROOFING: STANDING SEAM METAL, CONCRETE TILE OR ASPHALT SHINGLE ROOFING AS SELECTED BY THE OWNER. SEE SECTIONS FOR SLOPE. SEE ROOF PLAN, DETAILS, AND GENERAL NOTES.
- 4 ADHERED EXTERIOR STONE VENEER: STYLE AS SELECTED BY OWNER. HEIGHT AS NOTED ON ELEVATIONS. PER 2013 CRC K703.12. LIST MANUFACTURER AND ESR REPORT #.
- 5 PROVIDE WEEP SCREEDS TO COMPLY WITH CRC K703.6.2.1. SEE DETAILS.
- 6 CONCRETE STUOP @ DOOR
- 7 CORROSION RESISTANT ROOF TO WALL FLASHING. SEE ROOF DETAILS.
- 8 CORROSION RESISTANT METAL VENT
- 9 LIGHTED ADDRESS NUMBER
- 10 DAM TRIM WITH STUCCO OVER. SEE ELEVATIONS FOR SIZES
- 11 2 x 6 RAKE BOARD U.N.O.
- 12 EXTERIOR LIGHTS
- 13 COMPOSITE SHUTTERS, PER BUILDER.
- 14 WOOD CORBELS, SEE SHEET A5.01.
- 15 WROUGHT IRON DECORATIVE BASKET
- 16 BRICK TRIM U.N.O.
- 17 6" DIAMETER ROUND CANALE

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SHEET CONTENT:

**NEW FRONT AND  
REAR  
ELEVATIONS**

SCALE: 1/4" = 1'-0"

DATE: NOVEMBER 10, 2016

REVISIONS:

FILE: KELLY RESIDENCE

SHEET NO.:

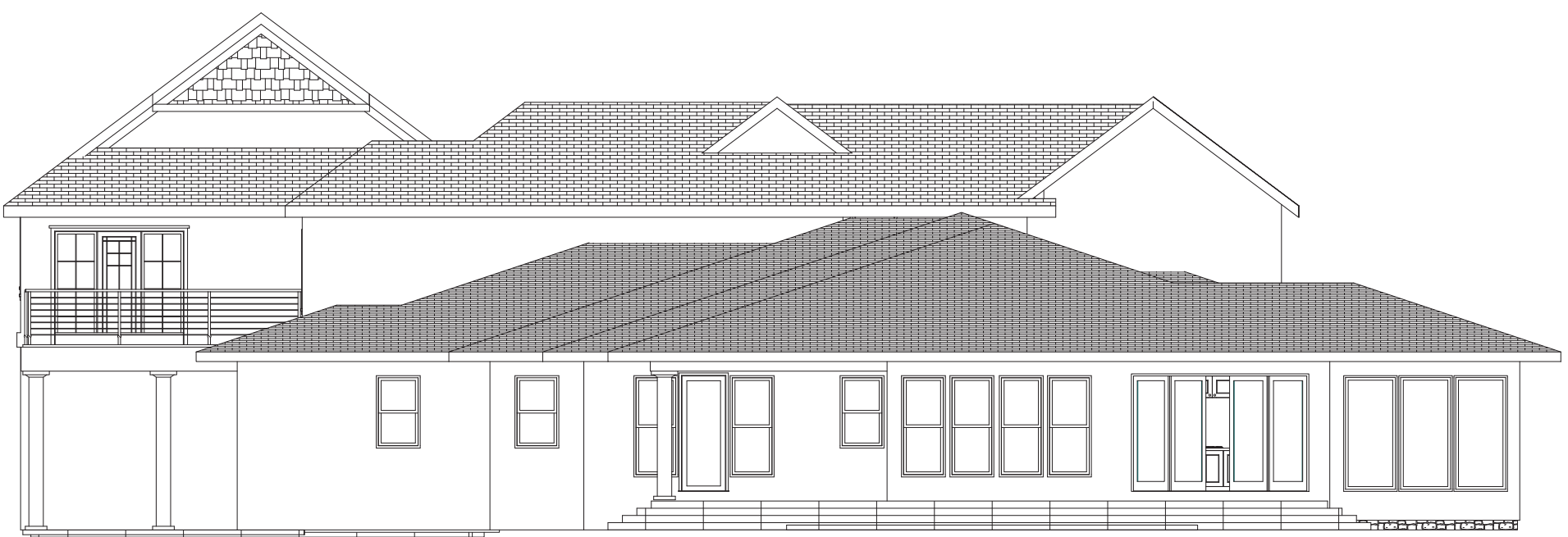
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**FRONT ELEVATION**

SCALE: 1/4" = 1'-0"



**REAR ELEVATION**

SCALE: 1/4" = 1'-0"



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2	12
3	13
4	14
5	15
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8	18
9	19
10	20

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SHEET CONTENT:

**NEW LEFT AND  
RIGHT  
ELEVATIONS**

SCALE: 1/4" = 1'-0"

DATE: NOVEMBER 10, 2016

REVISIONS:

FILE: KELLY RESIDENCE

SHEET NO.:

**A2.05**

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**ELEVATION KEY NOTES**

- 1 SURFACE WATER WILL BE DRAINED AWAY FROM THE BUILDING FOR AT LEAST THE FIRST 10 FEET WITH A MINIMUM GRADE OF 6 INCHES. WHERE THIS REQUIREMENT CANNOT BE MET AND ALTERNATE METHOD WILL BE REQUIRED. PER 2013 CRC K401.3.
- 2 EXTERIOR WALLS: 1 COAT STUCCO SYSTEM, MIN. 3/8" THICK, OVER CORROSION RESISTANT EXPANDED METAL, OR WOVEN WIRE LATH, OVER 1" THICK INSULATION BOARD, OVER MIN. 2 LAYERS OF GRADE 'D' BUILDING PAPER, WITH CORROSION RESISTANT WEEP SCREED AT BASE. LATH AND PLASTER TO COMPLY WITH CRC CHAPTER 25, PER 2013 CRC R106.1.1 AND CRC SECTION K703.
- 3 ROOFING: STANDING SEAM METAL, CONCRETE TILE OR ASPHALT SHINGLE ROOFING AS SELECTED BY THE OWNER. SEE SECTIONS FOR SLOPE. SEE ROOF PLAN, DETAILS, AND GENERAL NOTES.
- 4 ADHERED EXTERIOR STONE VENEER: STYLE AS SELECTED BY OWNER. HEIGHT AS NOTED ON ELEVATIONS. PER 2013 CRC K703.12, LIST MANUFACTURER AND ESR REPORT #.
- 5 PROVIDE WEEP SCREEDS TO COMPLY WITH CRC K703.6.2.1. SEE DETAILS.
- 6 CONCRETE STUCCO @ DOOR
- 7 CORROSION RESISTANT ROOF TO WALL FLASHING. SEE ROOF DETAILS.
- 8 CORROSION RESISTANT METAL VENT
- 9 CORROSION RESISTANT GUTTER
- 10 LIGHTED ADDRESS NUMBER
- 11 DAM TRIM WITH STUCCO OVER. SEE ELEVATIONS FOR SIZES
- 12 2 x 6 RAKE BOARD U.N.O.
- 13 EXTERIOR LIGHTS
- 14 COMPOSITE SHUTTERS, PER BUILDER
- 15 WOOD CORBELS, SEE SHEET A5.02
- 16 WROUGHT IRON DECORATIVE BASKET
- 17 BRICK TRIM U.N.O.
- 18 6" DIAMETER ROUND CANALE

J. ROOFING:  
CLASS 'W' FIRE-RETARDANT STANDING SEAM METAL, CONCRETE TILE OR ASPHALT SHINGLE. ALL ROOF RIDGES AND RAKE CONDITIONS ARE TO RECEIVE TRIM AS PROVIDED BY MANUFACTURER. ROOFING AS SELECTED BY THE OWNER. SEE SECTIONS FOR SLOPE. SEE ROOF PLAN, DETAILS, AND GENERAL NOTES.

ROOFING TILE MFG OR OPTIONS:

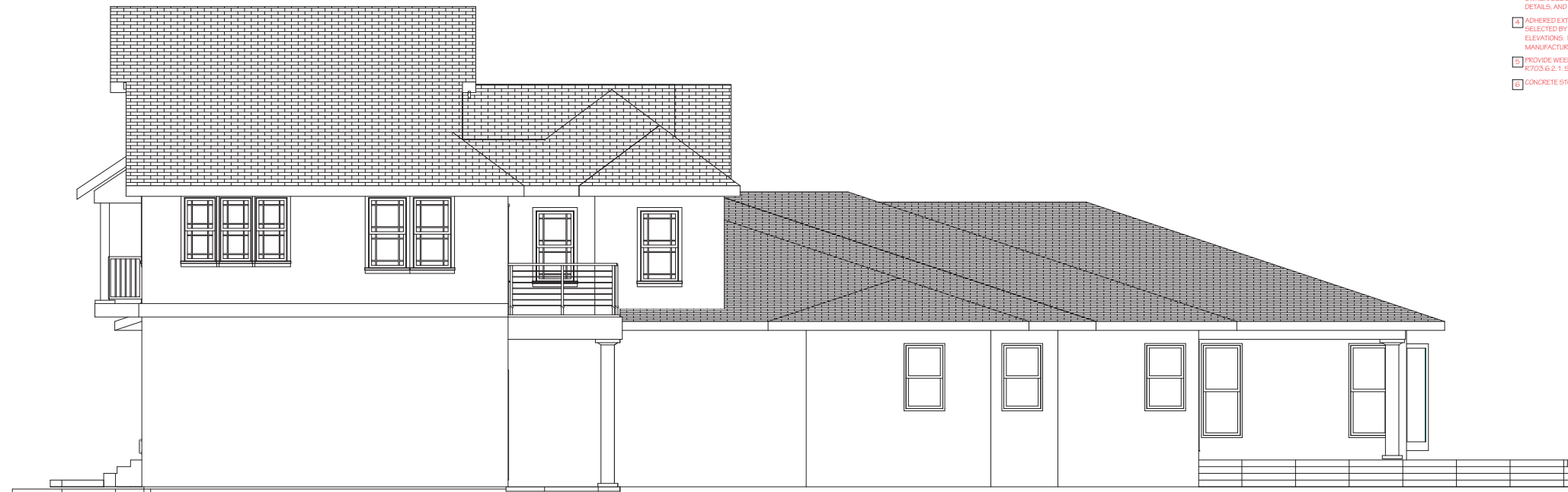
1. EAGLE AND EAGLELITE INTERLOCKING CONCRETE ROOFING TILES BY EAGLE ROOFING PRODUCTS. ICC REPORT ESR-1900

K. WINDOW 'HEAD' HEIGHTS:

- 1ST FLOOR = 8'-0" U.N.O. ON EXTERIOR ELEVATIONS  
- 2ND FLOOR = 8'-0" U.N.O. ON EXTERIOR ELEVATIONS  
- DOOR HEIGHTS AS NOTED ON PLANS, (ALIGN ADJACENT WINDOW HEADER HEIGHTS WITH DOOR HEADERS.)

L. EXTERIOR WALLS: 3 COAT STUCCO SYSTEM, MIN. 7/8" THICK, OVER CORROSION RESISTANT EXPANDED METAL, OR WOVEN WIRE LATH, OVER MIN. 2 LAYERS OF GRADE 'D' BUILDING PAPER, WITH CORROSION RESISTANT WEEP SCREED AT BASE. LATH AND PLASTER TO COMPLY WITH CRC CHAPTER 25, PER 2013 CRC R106.1.1 AND CRC SECTION K703.

M. EXTERIOR SOFFITS: 3 COAT STUCCO SYSTEM, MIN. 7/8" THICK, OVER HIGH-RIB CORROSION RESISTANT EXPANDED METAL LATH, OVER MIN. 2 LAYERS OF GRADE 'D' BUILDING PAPER, OVER SHEATHING, LATH AND PLASTER TO COMPLY WITH CRC CHAPTER 25, PER 2013 CRC R106.1.1 AND CRC SECTION K703.



**RIGHT ELEVATION**

SCALE: 1/4" = 1'-0"



**LEFT ELEVATION**

SCALE: 1/4" = 1'-0"

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SHEET CONTENT:

**3D Images**

SCALE: 1/4" = 1'-0"

DATE: NOVEMBER 10, 2016

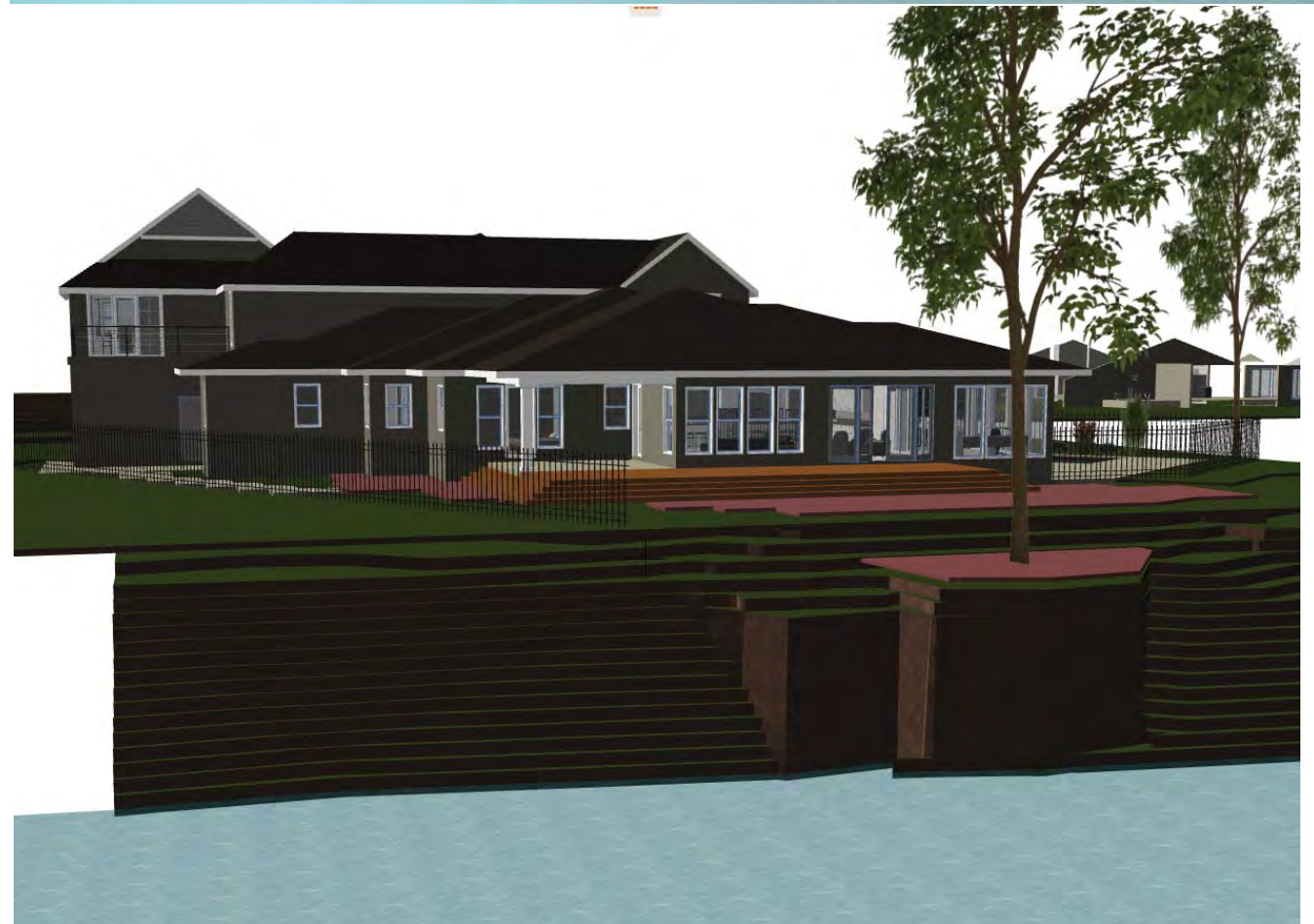
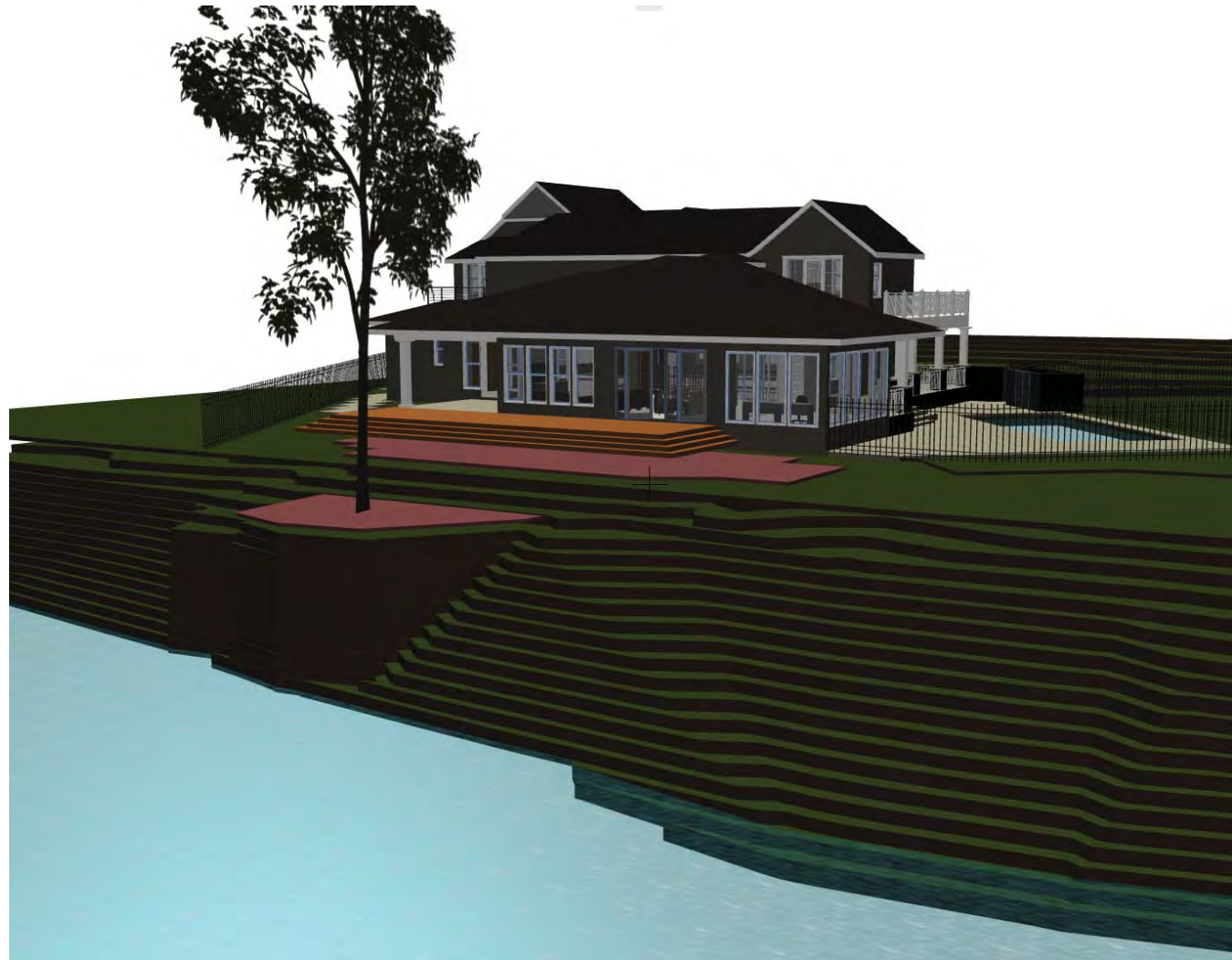
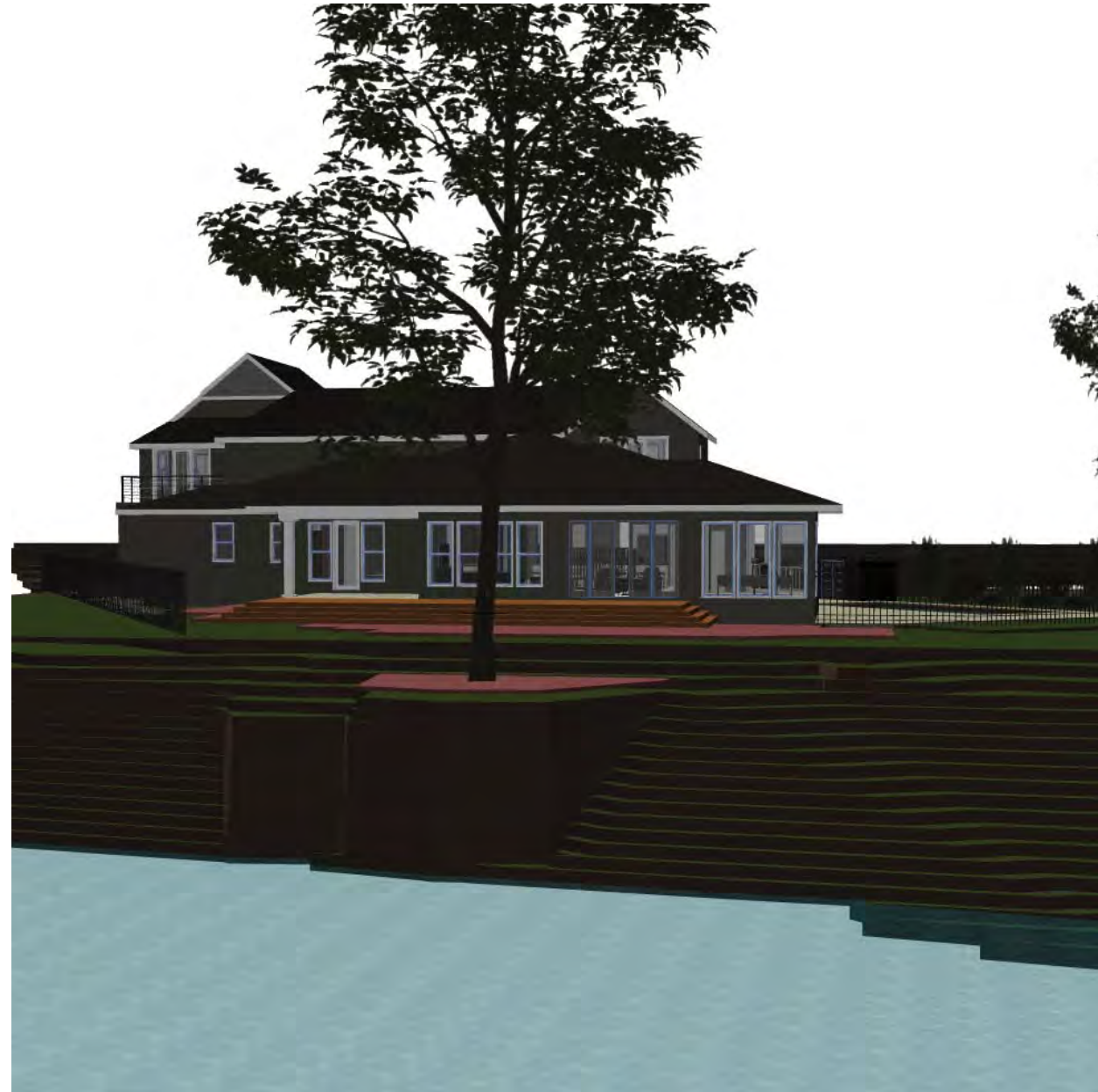
REVISIONS:

FILE: KELLY RESIDENCE

SHEET NO.:

**A3.02**

REMOVED Page 16



4944 Windplay Drive  
Suite #116  
El Dorado Hills, CA 95762  
Cell: 916.343.3737 (main)

JOB NAME:  
**KELLY RESIDENCE**

**CASEY AND JOAN  
KELLY**

1870 CLAREMONT ROAD  
CARMICHAEL, CA 95864

SHEET CONTENT:

**Interior  
Elevations**

SCALE: 1/4" = 1'-0"

DATE: NOVEMBER 10, 2016

REVISIONS:

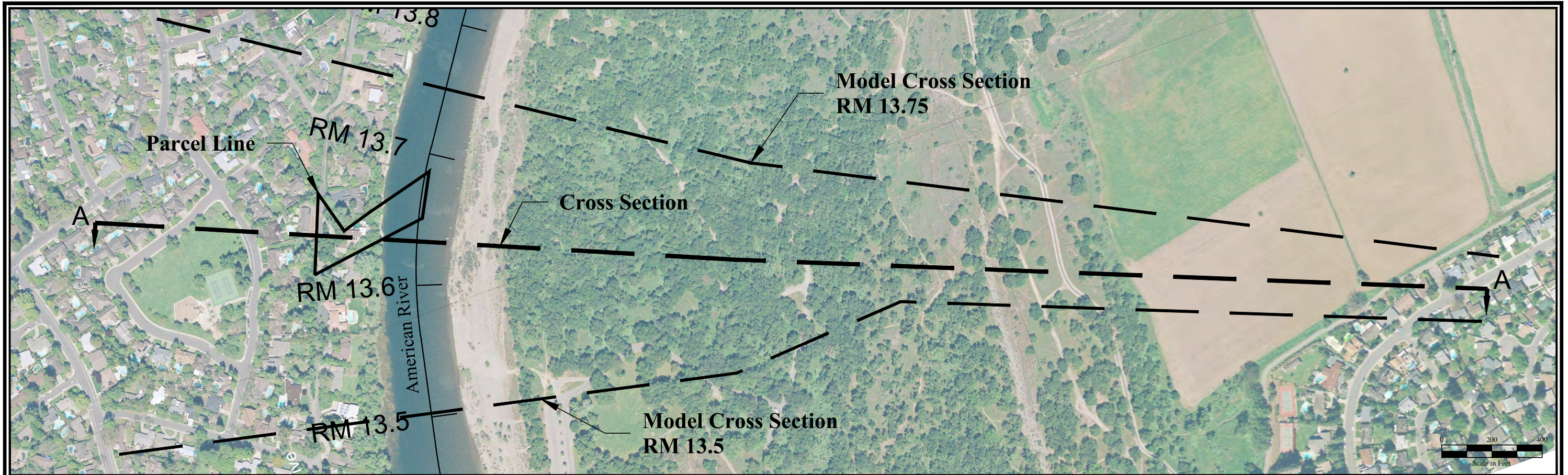
FILE: KELLY RESIDENCE

SHEET NO.:

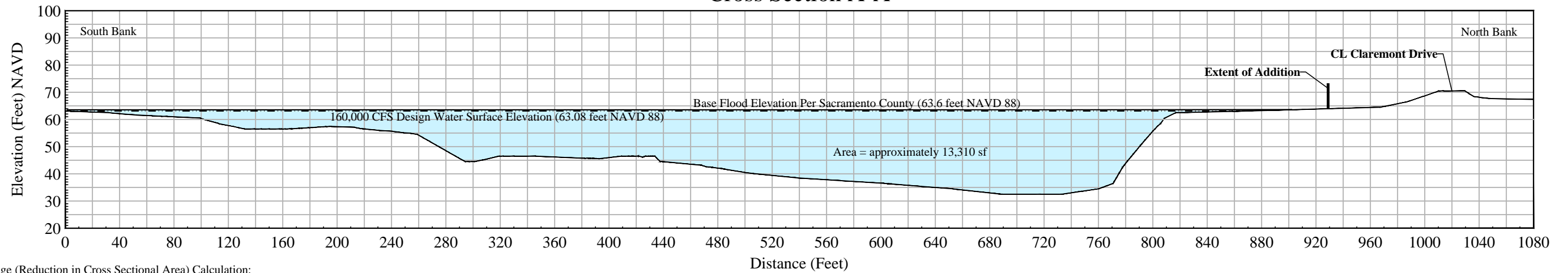
**A3.01**

REMOVED Page 17





Cross Section A-A



Blockage (Reduction in Cross Sectional Area) Calculation:

Additional Area within floodway: 37' largest cross sectional length of addition x 0.6' depth = 22.2 sf  
 Cross sectional area of floodway to design WSE\*: approximately 13,310 sf  
 Percentage of cross sectional area reduction\*\*: 0.17%

\*Current 200-year design flow for American River does not reach the proposed addition, therefore this is a conservative calculation using the BFE provided by the county and the design flow cross sectional area. Therefore this calculation is as conservative as possible.

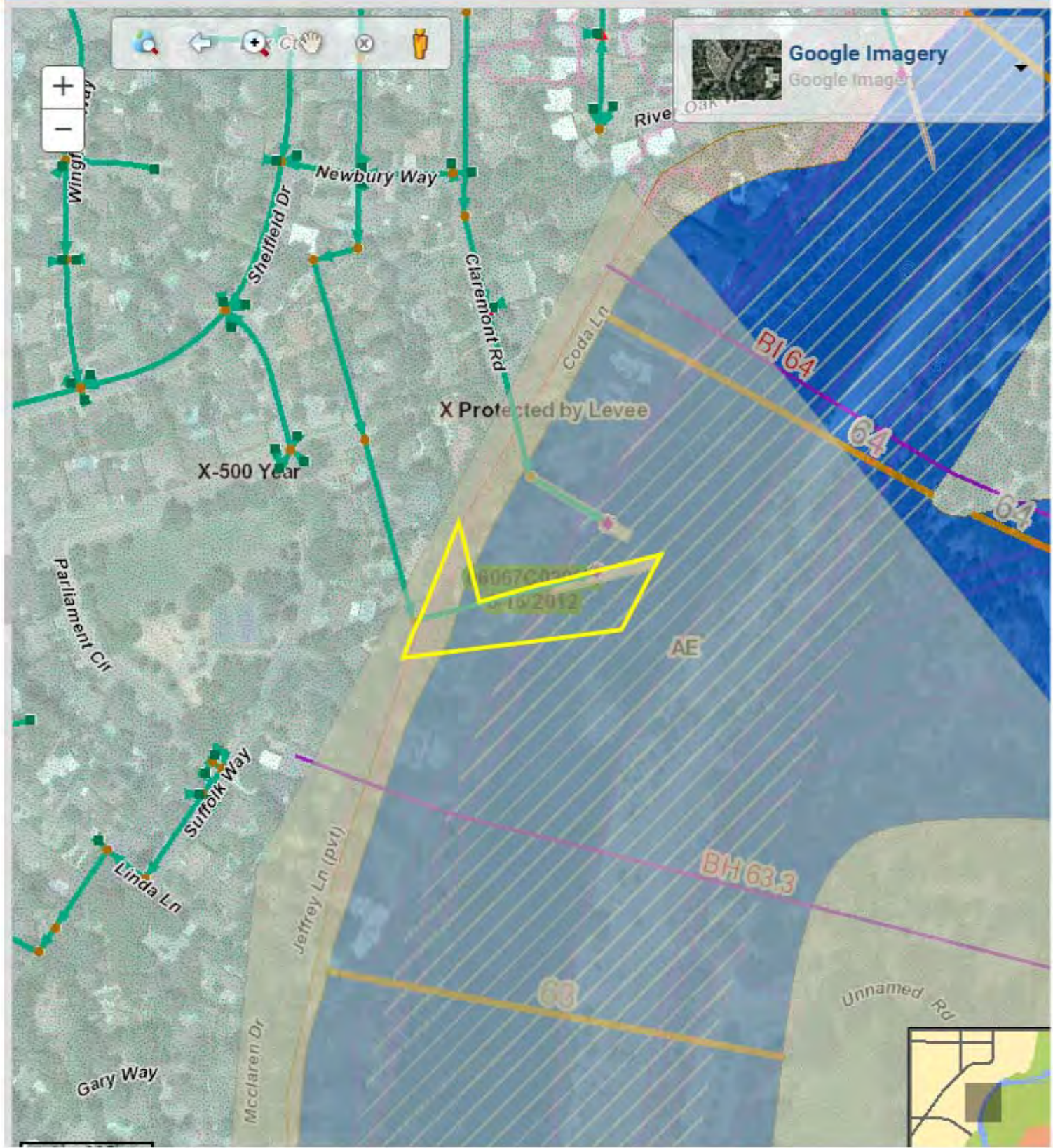
\*\*There are no significant waterside blockages and the home enlargement is located downstream of the original home, therefore there is no actual additional significant blockage proposed within the floodway and the only impact is to cross sectional storage within an approximate 25 foot distance.



455 University Avenue, Suite 100  
 Sacramento, California 95825  
 (916) 456-4400

1870 Claremont Drive  
 Plan View and Cross Section

Figure 1



Base Flood Elevation is about 63.6' (datum NAVD88)

George H. Booth, P.E., C.F.M  
 Senior Civil Engineer - Drainage | Department of Water Resources  
 827 Seventh Street, Room 301 | Sacramento, CA 95814  
 Office: (916) 874-6484 | Fax: (916) 874-3789  
 www.waterresources.saccounty.net

**NOTES TO USERS**

is for use in administering the National Flood Insurance Program; it does not identify areas subject to flooding, particularly from local sources of small size. The community map repository should be used for possible updates or additional flood hazard information.

For more detailed information in areas where **Base Flood Elevations** and/or **footways** have been determined, users are encouraged to consult the **Profiler and Footway Data and/or Summary of Stillwater Elevations** obtained with the Flood Insurance Study (FIS) report that accompanies the FIS. Users should be aware that BFEs shown on the FIS represent whole-foot elevations. These BFEs are intended for flood insurance purposes only and should not be used as the sole source of flood information. Accordingly, flood elevation data presented in the FIS should be utilized in conjunction with the FIS for purposes of flood and/or floodplain management.

**Base Flood Elevations** shown on this map apply only to landward of the American Vertical Datum of 1988 (AVD 88). Users of this FIS should be aware that coastal flood elevations are also provided in the Summary of Elevations tables in the Flood Insurance Study report for this jurisdiction. As shown in the Summary of Stillwater Elevations tables should be used for flood and/or floodplain management purposes when they are higher than those shown on this FIS.

**Footways** were computed at cross sections and interpolated cross sections. The footways were based on hydraulic considerations and to requirements of the National Flood Insurance Program. Footway and other pertinent footway data are provided in the Flood Insurance Study report for this jurisdiction.

Areas not in Special Flood Hazard Areas may be protected by flood structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

**Section used in the preparation of this map was California State Plane (NAD 83) GRS80. Differences in datum, spheroid, projection or State Plane zones used in other FISs for adjacent jurisdictions may result in slight positional errors in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIS.**

**Annotations on this map are referenced to the North American Vertical Datum of 1988 (NAVD 88). These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding differences in datum, spheroid, projection or State Plane zones used in other FISs for adjacent jurisdictions may result in slight positional errors in map features across jurisdiction boundaries. These differences do not affect the accuracy of the FIS.**

**Information Services:**  
 FIS#0202  
 Geographic Survey  
 #2022  
 6000 Highway  
 Ring, Maryland 20910-3282  
 3-3242

**For current elevation description and/or location information for a reach shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 753-3242, or visit its website at <http://nons.noaa.gov>.**

**Map information shown on this FIS was provided in digital format by the Sacramento Water Resources Department. This information was derived from the orthophotos produced with four-foot resolution and a 3,300-foot accuracy from aerial photography dated March 2001.**

**Map may reflect more detailed and up-to-date stream channel configurations than those shown on the previous FIS for this jurisdiction. The footways and footways that were transferred from the previous FIS may have been updated to conform to these new stream channel configurations. As a result, Profiler and Footway Data tables in the Flood Insurance Study Report contain authoritative hydraulic data that may reflect stream channel changes from what is shown on this map.**

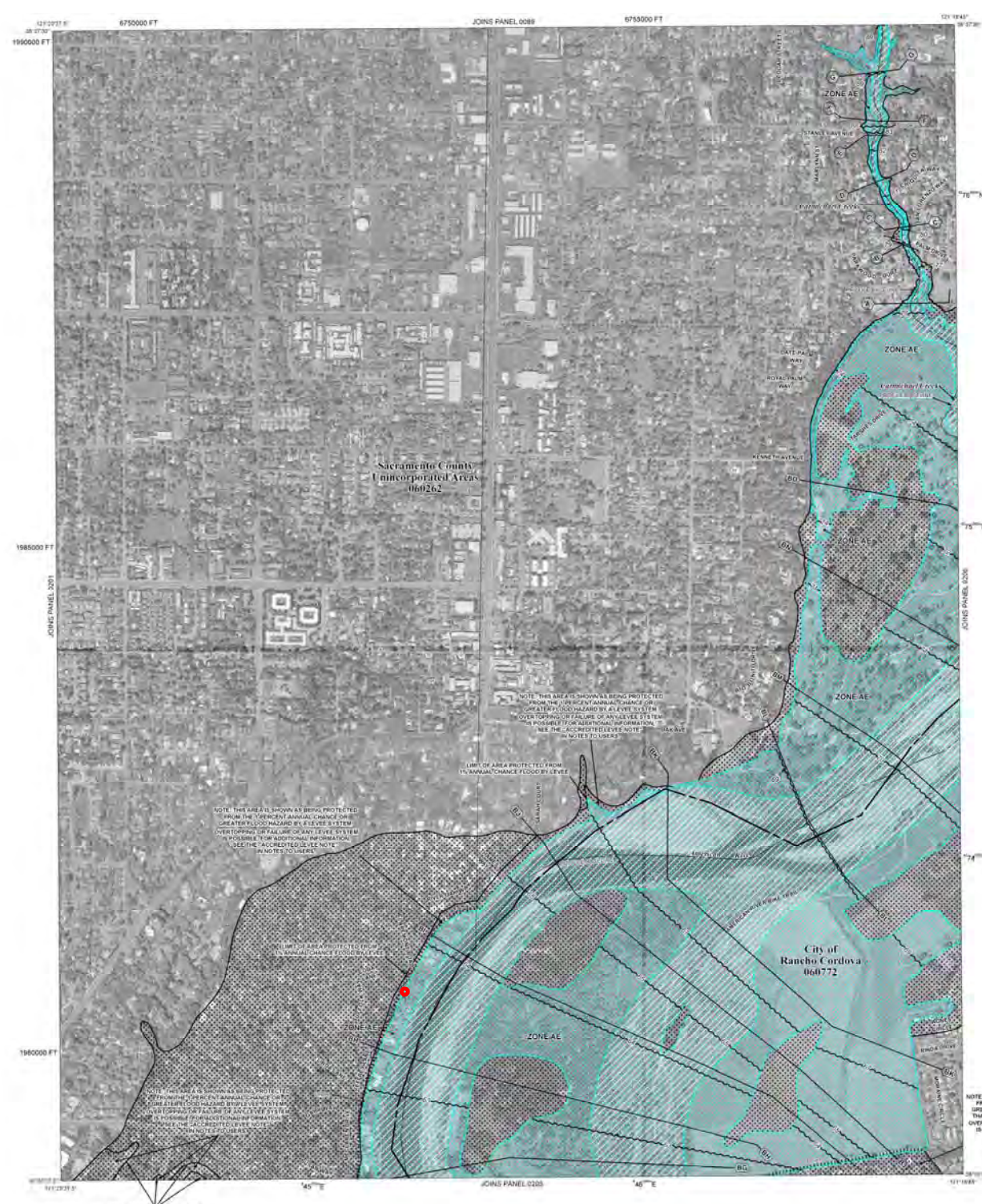
**Map limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may occur after this map was published, map users should contact appropriate officials to verify current corporate limitations.**

**Refer to the separately printed Map Index for an overview map of the showing the layout of map panels, community map repository address, listing of Communities table containing National Flood Insurance Program information on available products associated with the FIS and the Map Center (MSC) website at <http://mfsc.fema.gov>. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, digital versions of this map. Many of these products can be ordered directly from the MSC website.**

**For more questions about this map, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information e-Service (MIE) at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/mie>.**

**Accredited Levee Notes to Users:** Check with your local community to obtain more information, such as the estimated level of protection provided (which may be the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system shown as providing protection for areas on this map. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to take flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA website at [www.fema.gov/business/info/leves.htm](http://www.fema.gov/business/info/leves.htm).

**Provisionally Accredited Levee Notes to Users:** Check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system shown as providing protection for areas on this map. To maintain accreditation, the levee owner or community is required to provide data and documentation necessary to comply with Section 65.10 of the regulations by January 26, 2011. If the community or owner does not provide necessary data and documentation or if the data and documentation provided does not meet the requirements of Section 65.10 requirements, FEMA will remove the flood hazard and risk information for this area to reflect the level of protection of the levee system. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA website at [www.fema.gov/business/info/leves.htm](http://www.fema.gov/business/info/leves.htm).



**LEGEND**

**SPECIAL FLOOD HAZARD AREAS SUBJECT TO DUNDING**

**Item 4 THE 1% ANNUAL CHANCE FLOOD**

The 1% annual chance flood is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Areas are subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard Zones A, AE, AH, AV, X, V, and VE. The Base Flood Elevation is the water surface of the 1% annual chance flood.

**ZONE AE**  
 No Base Flood Elevations determined.  
 Base Flood Elevation determined.

**ZONE AH**  
 Flood depths of 1 to 3 feet (usually areas of ponds); the Base Flood Elevation determined.

**ZONE AD**  
 Flood depths of 1 to 3 feet (usually areas of ponds); the Base Flood Elevation determined. For areas of shallow basins, water depths determined.

**ZONE AV**  
 Special Flood Hazard areas formerly protected from the 1% annual flood by a flood control system that was subsequently determined to be inadequate. The former flood control system is being replaced by a new system. Areas to be protected from the 1% annual chance flood by a flood protection system under construction on the date of the FIS.

**ZONE V**  
 Coastal flood zone with velocity hazard (wave action); the Base Flood Elevation determined.

**ZONE VE**  
 Coastal flood zone with velocity hazard (wave action); the Base Flood Elevation determined.

**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream and an adjacent floodplain area that must be maintained so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**

**ZONE X**  
 Areas of 1% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with a significant area less than 1 mile wide and protected by levees from the 1% annual chance flood.

**ZONE D**  
 Areas determined to be outside the 1% annual chance floodplain; areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located outside or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary  
 0.2% annual chance floodplain boundary  
 Floodway boundary  
 Zone D boundary  
 Zone V boundary  
 Boundary showing Special Flood Hazard Areas of other Flood Insurance Study reports or flood studies.  
 Limit of Moderate Wave Action  
 Base Flood Elevation line and value, section in feet  
 Base Flood Elevation value where uniform within zone  
 (Elev. 1987)  
 Cross section line  
 Truncated line  
 Culvert, Flume, Reinforced or Ripraped  
 Bridge, Railroad Bridge  
 Flood gate  
 Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere  
 07°07'45" 32' 22" 30"  
 75° 19' 14"  
 800000 FT  
 DMS 15 S  
 Zone AE  
 Zone VE  
 Zone X  
 Zone D

**MAP REPOSITORY**  
 Refer to listing of Map Repositories on Map Index.

**EFFECTIVE DATE OF COUNTRYWIDE FLOOD INSURANCE RATE MAP**  
 AUGUST 18, 2012

**EFFECTIVE DATES OF REVISIONS TO THIS PANEL**

For community map revision history prior to countrywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6633.

**NFIP** PANEL 0202H

**FIRM**  
 FLOOD INSURANCE RATE MAP  
 SACRAMENTO COUNTY  
 CALIFORNIA  
 AND INCORPORATED AREAS

PANEL 202 OF 705  
 (SEE MAP INDEX FOR FIRM PANEL LIST)

CONTAINS:  
 COMMUNITIES  
 COMMUNITY MAP NUMBER  
 PANEL NUMBER  
 MAP NUMBER  
 MAP NUMBER

Notes to Users: The Map Number shown above refers to the community map. The Community Map Number shown above should be used on the map application submitted to your community.

**FEDERAL EMERGENCY MANAGEMENT AGENCY**

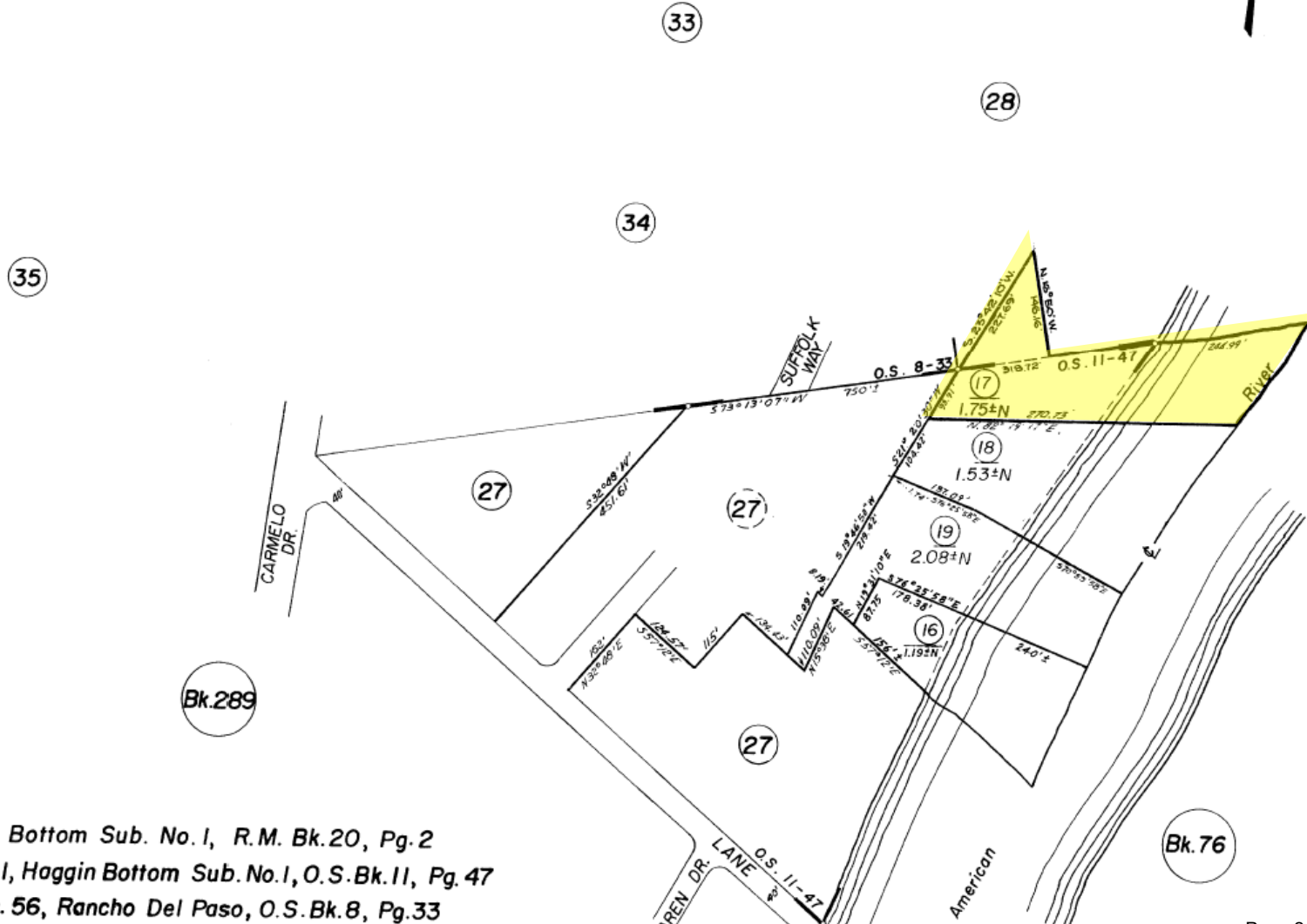
MAP NUMBER: 060670  
 EFFECTIVE DATE: AUGUST 18, 2012

**Federal Emergency Management**

POR. SEC. 56 & 57, RANCHO DEL PASO

Tax Area Code

283-26



Haggin Bottom Sub. No. 1, R.M. Bk. 20, Pg. 2  
 Por. Lot 1, Haggin Bottom Sub. No. 1, O.S. Bk. 11, Pg. 47  
 Por. Sec. 56, Rancho Del Paso, O.S. Bk. 8, Pg. 33

THE RECLAMATION BOARD  
P. O. Box 9137, Sacramento, CA 95816



December 28, 1973

File No.: 3005.05.300  
Application No. 7081B

Mr. John B. Lewis  
1870 Jeffrey Lane  
Carmichael, CA 95608

Dear Mr. Lewis:

Enclosed in duplicate is Order by The Reclamation Board made at its meeting held December 14, 1973 in connection with your application for approval of plans.

CONDITION ONE

Under Condition One of the Board Order you are required to submit one copy of the Order, with acceptance endorsed thereon, to this office. A signed copy should be returned without delay even though you may not intend immediate completion of your project.

CONDITION THREE

Under Condition Three of the Board Order you are required to advise the Department of Water Resources before beginning the work covered by your application at least three days prior to the commencement of the work. We have enclosed for your convenience an addressed and stamped postcard.

Sincerely yours,

  
Howard J. Sullivan  
Assistant Secretary  
Reclamation Board

HJS:  
Enclosure

cc: U. S. Army Corps of Engineers

SRB



ORDER OF THE RECLAMATION BOARD  
3005.05.300

Item 4

Application No. 7001-B

The application of Mr. John B. Lewis  
1870 Jeffrey Lane  
Carmichael, CA 95608

for approval of plans to landscape the right bank levee berm,  
around the house on the American River.  
Section 56, T. 9 N., R. 6 E., M.D.D.&M.,  
Sacramento County. (Levee Mile 0.2,  
Maintenance Area No. 11)

having been set for hearing on the 14th day of December, 1973, and said application

having been heard on said day: NOW THEREFORE, IT IS

ORDERED, That said application and said plans be, and the same are hereby approved,  
and permission to proceed with the work in accordance therewith is hereby granted, sub-  
ject to the following conditions:

GENERAL CONDITIONS

ONE: That this order, with its terms, conditions, and reservations, shall be null and void and ineffective for any purpose whatsoever until applicant, or the duly authorized agent thereof, shall accept in writing and return this Order to the Reclamation Board not later than 60 days after the date the Board heard and approved said application and plans; and agrees to all the terms, conditions, and restrictions hereof, which said acceptance and agreement shall be endorsed upon a copy of this order, in the form provided therefor, which form is hereby made a part of the substance hereof;

TWO: That this approval of plans does not carry with it permission to construct any works on lands owned by the Sacramento and San Joaquin Drainage District, nor on any other lands whatsoever.

THREE: That the work hereunder shall be accomplished under the direction and supervision of the State Department of Water Resources, and applicants shall conform to all requirements of said Department; and applicant shall notify said Department of Water Resources, P.O. Box 388, Sacramento, phone 445-8458, at least three days prior to commencement of the contemplated work.

FOUR: That applicant shall pay any and all reasonable expenses which the Reclamation Board or the Department of Water Resources shall find it necessary to incur for the purpose of assuring the board or the Department that this order is being and has been complied with by applicant and that the work is performed in conformity with the plans herein approved.

FIVE: That applicant shall at the applicant's sole cost and expense, remove, alter, relocate or reconstruct all or any part of the work herein approved immediately upon the order of the Reclamation Board so to do, and in the manner prescribed thereby, should said work or any portion thereof not conform to the provisions of this order, or should said work or any portion thereof be injurious to or damage any works necessary to any plan of flood control of the Reclamation Board or the Legislature or should it interfere with the successful execution, functioning or operation of any such plan of flood control, or should such removal, alteration, relocation or reconstruction be necessary under or in conjunction with any present or future flood control plans for the area in which the work herein approved is to be accomplished, and in case applicant delays acting upon any such order of the Reclamation Board, the Board may proceed to perform the required work and the cost thereof shall be paid by applicant.

SIX: That the maintenance of the landscaped area shall conform to standards contained in the "Guide for Vegetation on Project Levees", adopted by The Reclamation Board on December 1, 1967, and revised September 5, 1969.

SEVEN: That no further landscaping or encroachments within the project works, not covered by this application, shall be permitted without prior approval of The Reclamation Board.

STATE OF CALIFORNIA }  
COUNTY OF SACRAMENTO } ss.  
Office of the Reclamation Board }

I **HOWARD J. SULLIVAN** do hereby certify that the above and foregoing is a true and correct copy of an Order made by said Board at the above indicated meeting.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the Reclamation Board, this **21st** day of **December**, 19 **73**.



*Howard J. Sullivan*  
**HOWARD J. SULLIVAN**  
Assistant Secretary  
Reclamation Board

The undersigned and heretofore named applicant, or the applicant's duly authorized agent, hereby accepts the above and foregoing Order subject to all the terms thereof, agrees to abide by the same, and on the applicant's behalf and on behalf of the applicant's successors, agents and assigns, waives all claims arising, directly or indirectly, out of or in any manner based upon any act, order, regulation, or requirement of the Reclamation Board, the Sacramento and San Joaquin Drainage District, the local district or other maintaining agency, the Department of Water Resources, or the United States of America, the officials, agents or employees thereof, done pursuant to the terms and provisions of the above and foregoing Order, and does for the applicant, the applicant's successors, agents and assigns, agree to hold and save harmless the said Reclamation Board, the Sacramento and San Joaquin Drainage District, the local district or other maintaining agency, the Department of Water Resources, the United States of America and the officials, agents or employees thereof, from any and all claims, damages or liability due to or arising out of this application or any activity in connection therewith.

IN WITNESS WHEREOF, the said applicant, or the applicant's duly authorized agent, has executed this certificate, this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, at \_\_\_\_\_, California.

..... Signature ..... Title  
..... Signature ..... Title



**DEPARTMENT OF THE ARMY**  
**SACRAMENTO DISTRICT, CORPS OF ENGINEERS**  
 650 CAPITOL MALL  
 SACRAMENTO, CALIFORNIA 95814

20 November 1973

REPLY TO **SPKCO-O (7081B)**  
 ATTENTION OF

The Reclamation Board  
 State of California  
 1416 - 9th Street, Room 335  
 Sacramento, California 95814

Gentlemen:

Reference is made to your letter dated 12 November 1973, inclosing copy of application submitted by John B. Lewis (Reclamation Board No. 7081B), for approval of plans. These plans cover landscaping on and near the American River right bank levee. The location of this proposed work is 1870 Jeffrey Lane in Section 56, T. 9N., R. 6E., M.D.B.&M., County of Sacramento.

The District Engineer has no objection to approval of this application by your Board provided approval is subject to the condition:

That the proposed landscaping shall conform to the guide for vegetation on project levees adopted by your Board 1 December 1976.

Sincerely,

**B. C. MCKINSEY**  
 Chief, Construction-Operations  
 Division

Copy furnished:  
 DWR, ATTN: John Wright

DWR  
Item 4

DEPARTMENT OF WATER RESOURCES

P. O. BOX 388  
SACRAMENTO  
95802



The work and staff of the Reclamation Board have been transferred to the Department of Water Resources. The Reclamation Board retains its statutory functions and authorities. Policy matters should be referred directly to the Reclamation Board at 1416 - 9th Street Room 1335, Sacramento, CA. 95814

August 27, 1973

File No.: 3005.05.000  
Application No. 7081-A

Mr. and Mrs. John B. Lewis  
1870 Jeffrey Lane  
Carmichael, CA 95608

Dear Mr. and Mrs. Lewis:

Enclosed in duplicate is Order by The Reclamation Board, made at its meeting held August 17, 1973, in connection with your application for approval of plans.

CONDITION ONE

Under Condition One of the Board Order you are required to submit one copy of the Order, with acceptance endorsed thereon, to this office. A signed copy should be returned without delay even though you may not intend immediate completion of your project.

CONDITION THREE

Under Condition Three of the Board Order you are required to advise the Department of Water Resources before beginning the work covered by your application at least three days prior to the commencement of the work. We have enclosed for your convenience an addressed and stamped postcard.

Also enclosed is an inspector's card which is to be posted in a conspicuous place at the work site. The Department of Water Resources' Inspector will check off each item as it is completed and accepted.

Sincerely yours,

Howard J. Sullivan  
Assistant Secretary  
Reclamation Board

HJS:  
Enclosure

cc: U. S. Army Corps of Engineers

SRB-308A  
12/69

# ORDER OF THE RECLAMATION BOARD

3005.05.000

Item 4

Application No. 7081-A

The application of **Mr. and Mrs. John B. Lewis**  
**1870 Jeffrey Lane**  
**Carmichael, CA 95608**

for approval of plans **to add a septic tank and leach lines to dwelling on the right bank of the American River. Section 56, T. 9 N., R. 6 E., M.D.B.&M., Sacramento County. (Levee Mile 0.2, Maintenance Area No. 11)**

having been set for hearing on the 17th day of August, 1973, and said application

having been heard on said day: NOW THEREFORE, IT IS

ORDERED, That said application and said plans be, and the same are hereby approved, and permission to proceed with the work in accordance therewith is hereby granted, subject to the following conditions:

## GENERAL CONDITIONS

ONE: That this order, with its terms, conditions, and reservations, shall be null and void and ineffective for any purpose whatsoever until applicant, or the duly authorized agent thereof, shall accept in writing and return this Order to the Reclamation Board not later than 60 days after the date the Board heard and approved said application and plans; and agrees to all the terms, conditions, and restrictions hereof, which said acceptance and agreement shall be endorsed upon a copy of this order, in the form provided therefor, which form is hereby made a part of the substance hereof;

TWO: That this approval of plans does not carry with it permission to construct any works on lands owned by the Sacramento and San Joaquin Drainage District, nor on any other lands whatsoever.

THREE: That the work hereunder shall be accomplished under the direction and supervision of the State Department of Water Resources, and applicants shall conform to all requirements of said Department; and applicant shall notify said Department of Water Resources, P.O. Box 388, Sacramento, phone 445-8458, at least three days prior to commencement of the contemplated work.

FOUR: That applicant shall pay any and all reasonable expenses which the Reclamation Board or the Department of Water Resources shall find it necessary to incur for the purpose of assuring the board or the Department that this order is being and has been complied with by applicant and that the work is performed in conformity with the plans herein approved.

FIVE: That applicant shall at the applicant's sole cost and expense, remove, alter, relocate or reconstruct all or any part of the work herein approved immediately upon the order of the Reclamation Board so to do, and in the manner prescribed thereby; should said work or any portion thereof not conform to the provisions of this order, or should said work or any portion thereof be injurious to or damage any works necessary to any plan of flood control of the Reclamation Board or the Legislature or should it interfere with the successful execution, functioning or operation of any such plan of flood control, or should such removal, alteration, relocation or reconstruction be necessary under or in conjunction with any present or future flood control plans for the area in which the work herein approved is to be accomplished, and in case applicant delays acting upon any such order of the Reclamation Board, the Board may proceed to perform the required work and the cost thereof shall be paid by applicant.

SIX: That no landscaping shall be permitted on the levee section unless a specific application is approved by The Reclamation Board for this purpose.

SEVEN: That no construction of any nature shall be done within 30 feet of the top of the riverbank or within 10 feet of the waterward toe of the levee.

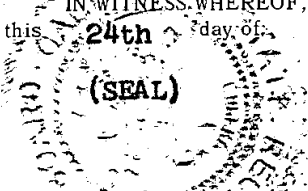
EIGHT: That the applicant is aware and understands that flows of up to 152,000 cfs may be released from Folsom Dam and may cause injury to the land and appurtenances described in this application.

NINE: That the applicant shall maintain the project works within the utilized area in the manner required and as requested by the authorized representative of the Department of Water Resources or any other agency responsible for maintenance.

STATE OF CALIFORNIA  
COUNTY OF SACRAMENTO } ss.  
Office of the Reclamation Board

I **HOWARD J. SULLIVAN** do hereby certify that the above and foregoing is a true and correct copy of an Order made by said Board at the above indicated meeting.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the Reclamation Board, this **24th** day of **August**, 19**73**.



(SEAL)

*Howard J. Sullivan*  
**HOWARD J. SULLIVAN**  
Assistant Secretary  
Reclamation Board

The undersigned and heretofore named applicant, or the applicant's duly authorized agent, hereby accepts the above and foregoing Order subject to all the terms thereof, agrees to abide by the same, and on the applicant's behalf and on behalf of the applicant's successors, agents and assigns, waives all claims arising, directly or indirectly, out of, or in any manner based upon any act, order, regulation, or requirement of the Reclamation Board, the Sacramento and San Joaquin Drainage District, the local district or other maintaining agency, the Department of Water Resources, or the United States of America, the officials, agents or employees thereof, done pursuant to the terms and provisions of the above and foregoing Order, and does for the applicant, the applicant's successors, agents and assigns, agree to hold and save harmless the said Reclamation Board, the Sacramento and San Joaquin Drainage District, the local district or other maintaining agency, the Department of Water Resources, the United States of America and the officials, agents or employees thereof, from any and all claims, damages or liability due to or arising out of this application or any activity in connection therewith.

IN WITNESS WHEREOF, the said applicant, or the applicant's duly authorized agent, has executed this certificate, this ..... day of ....., 19....., at ....., California.

..... Signature ..... Title  
..... Signature ..... Title

2081



DEPARTMENT OF THE ARMY  
SACRAMENTO DISTRICT CORPS OF ENGINEERS  
650 CAPITOL MALL  
SACRAMENTO, CALIFORNIA 95814

SPK00-0 (7081A)

19 September 1972

The Reclamation Board  
State of California  
1416 - 9th Street, Room 1335  
Sacramento, California 95814

Gentlemen:

Reference is made to your letter dated 14 September 1972, requesting our comments on a proposed amendment by John B. Lewis (Reclamation Board Order No. 7081), for additional work. This amendment covers installation of a septic tank with leach lines in the north overflow area of the American River. The location of this proposed work is at levee mile 0.2, Maintenance Area No. 11, Carmichael, California, in the County of Sacramento.

The District Engineer has no objection to approval of this amendment by your Board provided approval is subject to the following conditions:

- a. That the proposed septic tank shall be located at least 10 feet from the project levee toe.
- b. That the leach lines from the proposed septic tanks shall be installed at least 30 feet from the project levee toe.

It is suggested that the applicant be advised that the proposed facility should be constructed and so physically situated as to meet all State and local water quality requirements.

Sincerely yours,

E. C. MCKINSEY  
Chief, Construction-Operations  
Division

Copy furnished:  
DWR, ATTN: John Wright

DWR

7081

Item 4

DEPARTMENT OF WATER RESOURCES

P. O. BOX 388  
SACRAMENTO  
95802



The work and staff of the Reclamation Board have been transferred to the Department of Water Resources. The Reclamation Board retains its statutory functions and authorities. Policy matters should be referred directly to the Reclamation Board at 1416 - 9th Street Room 1335, Sacramento, CA. 95814

AUG 20 1970

File No.: 3005.05.000  
Application No. 7081

Mr. John B. Lewis  
451 Walhaggin Drive  
Sacramento, California

Dear Mr. Lewis:

Enclosed in duplicate, is Order by The Reclamation Board, made at its meeting held August 14, 1970 in connection with your application for approval of plans.

CONDITION ONE

Under Condition One of the Board Order you are required to submit one copy of the order, with acceptance endorsed thereon, to this office. A signed copy should be returned even though you may not intend immediate completion of your project without delay.

CONDITION THREE

Under Condition Three of the Board Order you are required to advise the Department of Water Resources before beginning the work covered by your application at least three days prior to the commencement of the work. We have enclosed for your convenience an addressed and stamped postcard.

Sincerely yours,

Howard J. Sullivan  
Assistant Secretary  
Reclamation Board

HJS: dm  
Enclosures

cc: U. S. Army Corps of Engineers



# ORDER OF THE RECLAMATION BOARD

Item 4

3005.05.000

Application No. 7081

The application of **John B. Lewis**  
**451 Walhaggin Drive**  
**Sacramento, California**

for approval of plans

to construct a one-story dwelling on the right bank of American River, 1/2 mile upstream from Arden Way. Section 96, Del Paso Grant, T. 9 N., R. 6 E., N.D.B. 221, Sacramento County. (Levee Mile 0.2, Maintenance Area No. 11)

having been set for hearing on the 14th day of August, 1970, and said application

having been heard on said day: NOW THEREFORE, IT IS

ORDERED, That said application and said plans be, and the same are hereby approved, and permission to proceed with the work in accordance therewith is hereby granted, subject to the following conditions:

## GENERAL CONDITIONS

ONE: That this order, with its terms, conditions, and reservations, shall be null and void and ineffective for any purpose whatsoever until applicant, or the duly authorized agent thereof, shall accept in writing and return this Order to the Reclamation Board not later than 60 days after the date the Board heard and approved said application and plans; and agrees to all the terms, conditions, and restrictions hereof, which said acceptance and agreement shall be endorsed upon a copy of this order, in the form provided therefor, which form is hereby made a part of the substance hereof;

TWO: That this approval of plans does not carry with it permission to construct any works on lands owned by the Sacramento and San Joaquin Drainage District, nor on any other lands whatsoever.

THREE: That the work hereunder shall be accomplished under the direction and supervision of the State Department of Water Resources, and applicants shall conform to all requirements of said Department; and applicant shall notify said Department of Water Resources, P.O. Box 388, Sacramento, phone 445-8458, at least three days prior to commencement of the contemplated work.

FOUR: That applicant shall pay any and all reasonable expenses which the Reclamation Board or the Department of Water Resources shall find it necessary to incur for the purpose of assuring the board or the Department that this order is being and has been complied with by applicant and that the work is performed in conformity with the plans herein approved.

FIVE: That applicant shall at the applicant's sole cost and expense, remove, alter, relocate or reconstruct all or any part of the work herein approved immediately upon the order of the Reclamation Board so to do, and in the manner prescribed thereby, should said work or any portion thereof not conform to the provisions of this order, or should said work or any portion thereof be injurious to or damage any works necessary to any plan of flood control of the Reclamation Board or the Legislature or should it interfere with the successful execution, functioning or operation of any such plan of flood control, or should such removal, alteration, relocation or reconstruction be necessary under or in conjunction with any present or future flood control plans for the area in which the work herein approved is to be accomplished, and in case applicant delays acting upon any such order of the Reclamation Board, the Board may proceed to perform the required work and the cost thereof shall be paid by applicant.

SIX: That the applicant shall submit an application with proper plans indicating the location and method of installing any proposed utility lines.

SEVEN: That no landscaping shall be permitted on the levee section unless a specific application is approved by The Reclamation Board for this purpose.

EIGHT: That no construction of any nature shall be done within 30 feet of the top of the riverbank or within 10 feet of the waterward toe of the levee.

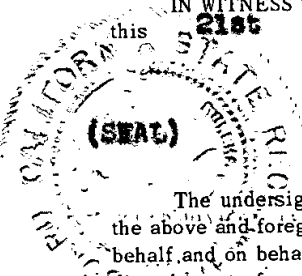
NINE: That the applicant is aware and understands that flows of up to 152,000 cfs may be released from Folsom Dam and may cause injury to the land and appurtenances described in this application.

TEN: That the applicant shall maintain the project works within the utilized area in the manner required and as requested by the authorized representative of the Department of Water Resources or any other agency responsible for maintenance.

STATE OF CALIFORNIA }  
COUNTY OF SACRAMENTO } ss.  
Office of the Reclamation Board }

I **HOWARD J. SULLIVAN** do hereby certify that the above and foregoing is a true and correct copy of an Order made by said Board at the above indicated meeting.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the Reclamation Board, this **21st** day of **August**, 19 **70**



*Howard J. Sullivan*  
**HOWARD J. SULLIVAN**  
Assistant Secretary  
Reclamation Board

The undersigned and heretofore named applicant, or the applicant's duly authorized agent, hereby accepts the above and foregoing Order subject to all the terms thereof, agrees to abide by the same, and on the applicant's behalf and on behalf of the applicant's successors, agents and assigns, waives all claims arising, directly or indirectly, out of, or in any manner based upon any act, order, regulation, or requirement of the Reclamation Board, the Sacramento and San Joaquin Drainage District, the local district or other maintaining agency, the Department of Water Resources, or the United States of America; the officials, agents or employees thereof, done pursuant to the terms and provisions of the above and foregoing Order, and does for the applicant, the applicant's successors, agents and assigns, agree to hold and save harmless the said Reclamation Board, the Sacramento and San Joaquin Drainage District, the local district or other maintaining agency, the Department of Water Resources, the United States of America and the officials, agents or employees thereof, from any and all claims, damages or liability due to or arising out of this application or any activity in connection therewith.

IN WITNESS WHEREOF, the said applicant, or the applicant's duly authorized agent, has executed this certificate, this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, at \_\_\_\_\_, California.

\_\_\_\_\_  
Signature Title  
\_\_\_\_\_  
Signature Title

7081  
Item 4



DEPARTMENT OF THE ARMY  
SACRAMENTO DISTRICT, CORPS OF ENGINEERS  
650 CAPITOL MALL  
SACRAMENTO, CALIFORNIA 95814

SPKCO-O (7081)

29 July 1970

The Reclamation Board  
State of California  
1416 - 9th Street, Room 1335  
Sacramento, California 95814

Gentlemen:

Reference is made to your letter dated 17 June 1970, inclosing copy of application submitted by John B. Lewis (Reclamation Board No. 7081), for approval of plans. These plans cover the construction of a one-story dwelling in the right bank overflow area of the American River. The location of this proposed work is about 0.05 mile downstream from Claremont Drive, Carmichael, in Section 56, Del Paso Grant, County of Sacramento.

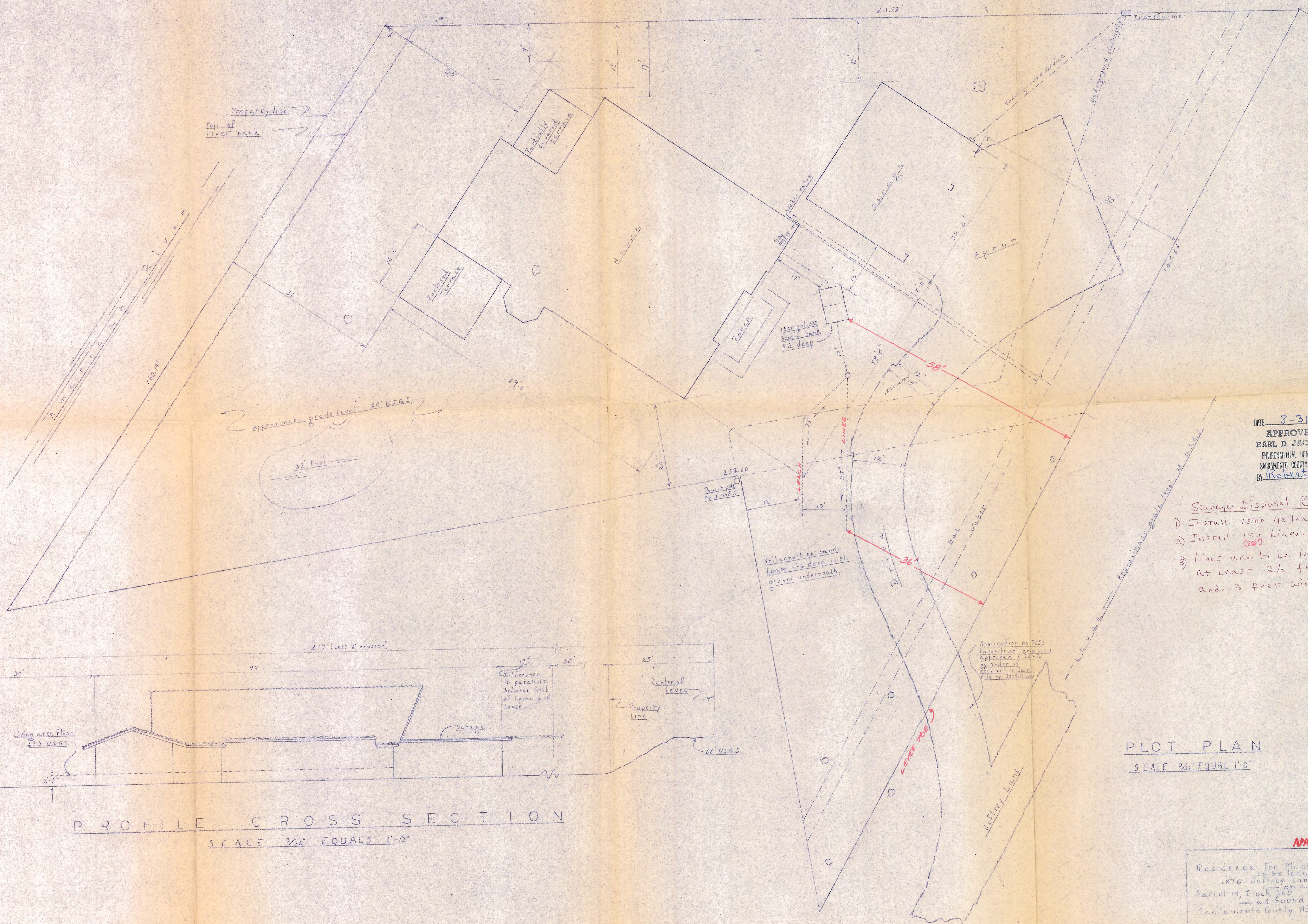
The District Engineer has no objection to approval of this application by your Board provided approval is subject to the following conditions:

- a. That the floor of the proposed dwelling shall be constructed to at least elevation 64.5, USGS datum, which is 2 feet above flood plane at 115,000 CFS.
- b. That no construction shall be done within 30 feet of the top of the riverbank or within 10 feet of the waterward toe of the project levee.

Sincerely yours,

O. H. HART  
Chief, Construction-Operations  
Division

Copy furnished:  
DWR, ATTN: John Wright



DATE: 8-31-72  
 APPROVED BY  
 EARL D. JACK, CHIEF  
 ENVIRONMENTAL HEALTH PROGRAM  
 SACRAMENTO COUNTY HEALTH DEPT.  
 BY: Robert Cochran, R.S.  
 (YW)

- Sewage Disposal Requirements**
- 1) Install 1500 gallon Tank
  - 2) Install 150 Linear Feet of Leach Line
  - 3) Lines are to be installed at least 2 1/2 feet deep and 3 feet wide, 15 feet apart.

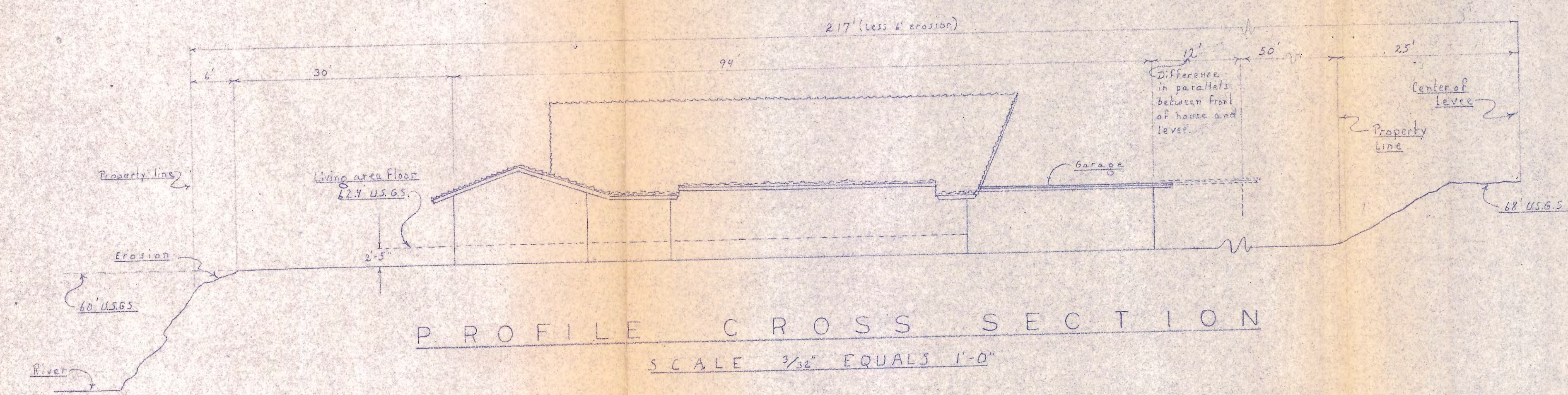
Application no 7055  
 To construct pump and  
 sewerage system  
 by order of  
 Resolution No. 100  
 File no. 100-600-000

**PLOT PLAN**  
 SCALE 3/32" EQUALS 1'-0"

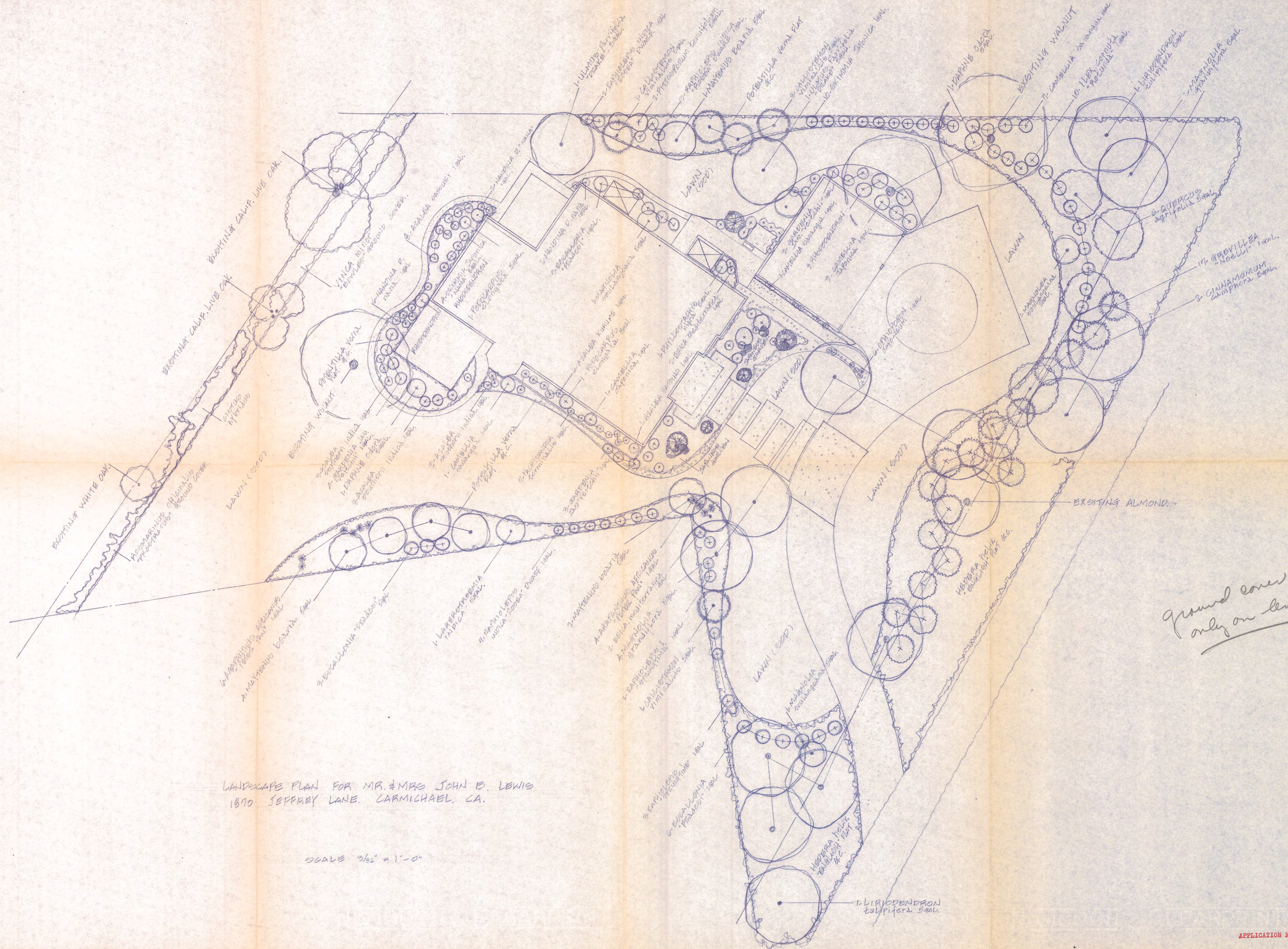
Sheet 9  
 of 10

APP. # 7081-A

Residence for Mr. and Mrs. John B. Lewis  
 to be located at  
 1870 Jeffrey Lane, Carmichael  
 Parcel 14, Block 240  
 as found in  
 Sacramento County Assessor's Book 283



**PROFILE CROSS SECTION**  
 SCALE 3/32" EQUALS 1'-0"



LANDSCAPE PLAN FOR MR. & MRS. JOHN B. LEWIS  
 1870 JEFFREY LANE, CARMICHAEL, CA.

SCALE 3/32" = 1'-0"

Ground cover only on level



# FloodWise WINTER 2017

PROTECTING LIVES AND PROPERTY IN OUR COMMUNITY SINCE 1927

## Flood Control System Shines Through Record-Setting Year

If you thought last year's rainy season was one for the record books, you were right.



The water year that ran from October 1, 2016, through September 30, 2017 was Sacramento's third wettest year since record keeping began in 1877. At just shy of 34 inches, compared to about 19 inches in an average year, last rainy season was bested only by 36.57 inches in 1982-83 and 34.6 inches in 1889-90.

But local rainfall is only part of the story when it comes to flood potential. Sierra Nevada snowmelt runoff presents an even greater flood risk—and the water content of last year's snow was 190 percent of normal. The Northern Sierra Eight-Station Index, which measures rain and snow in Sierra locations across the Sacramento, Feather, and American river basins, reached its highest-ever level since the index began in 1921. All told, the heavy rain and snow put last year into the record books as Northern California's wettest year on record.

The heavy rain and snowmelt poured into Folsom Lake, requiring releases that joined with local rain runoff to send the American River rushing at more than 85,000 cubic feet per second in February (compared to summer's average of about 2,000 cubic feet per second). Though there was no imminent danger of neighborhoods flooding, the river rose to its highest level in more than 20 years and put large sections of the American River Parkway under water.

Here at the American River Flood Control District, the intense rains and runoff brought on 24-hour levee patrols looking for any signs of weakness. We knew that, despite our best maintenance efforts, the volume and speed of water flowing through would test our system.

We're happy to report that the system passed the test with flying colors. Every aspect functioned just as it should, with no signs of trouble. That success is a testament to the U.S. Army Corps of Engineers' levee strengthening projects, our year-round maintenance efforts, and your cooperative support.

As we move further into this year's rainy season, we look forward to plentiful rain and snow and another trouble-free year for our flood control system.

### #1

Northern California's  
wettest year on record.

### 33.95 INCHES

Total rainfall,  
water year 2016-2017.

### 190% OF NORMAL

Water content of  
Sierra Nevada snow.



## Best New Idea of the Year

**YOU MIGHT SEE OUR CREW MEMBER, ELVIN,** standing on or near a levee holding what looks like a video gaming device. While he might look like he's out having fun, he's actually hard at work mowing the steep levee slopes with our new robotic mower. The lightweight and nimble slope mower uses a rubber track-drive system that allows Elvin to remotely maneuver it on slopes and into hard-to-reach places. The robotic mower is much safer to operate and easily pays for itself by reducing the number of hours needed to hand cut areas we can't get to with ride-on mowers and arm mowers.

## Let Us Know if You See Trouble

During times of heavy rains or high river levels, we patrol the levees 24 hours a day looking for signs of levee weakness. But we can't be everywhere at all times.

That's why we're asking you to let us know if you see any of the following:

- Water boiling or bubbling up on the dry side of a levee. These leaks, called boils, indicate a weak spot in the levee structure.
- Water seeping through or pouring out of the side of the levee.
- A portion of the levee slope that has slipped away.
- A section of the levee top that has washed out or settled to a height lower than other sections.

Most issues can be managed with simple measures, but it's important to get to them as quickly as possible.

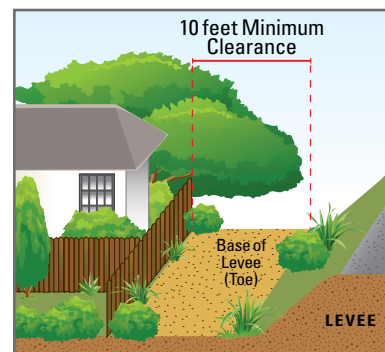
If you see any of the problems outlined above, call us at 916-929-4006. You can also call the State-Federal Flood Control Center at 1-800-952-5530. Calls to these lines are answered 24 hours during times of heightened flood risk.

## Why We Sometimes Trim Back Trees

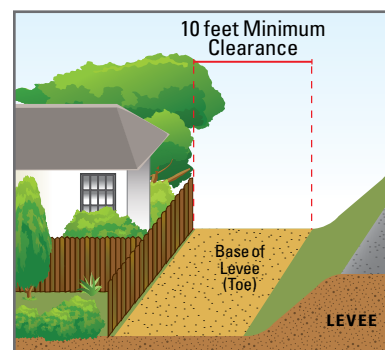
**ONE OF THE HARDEST AND MOST CRITICAL ASPECTS OF OUR WORK IS MAINTAINING A CLEAR LINE OF VISION TO ALL PORTIONS OF OUR LEVEES.**

We simply have to be able to see every inch of the levees and easements as we check for problems that could one day lead to a levee breach. In fact, the base of the levees (also called the toe) in the easement is often where boils appear—and a boil is the most common sign of a levee problem.

Unfortunately, our need to inspect and access the levee and easement areas means that we must sometimes trim back trees, bushes, and other vegetation that extends into the levee easement from neighboring yards. We apologize for the inconvenience and ask for your understanding and support in helping us take the necessary actions to protect against floods.



**BEFORE:**  
*Trees and vegetation block a straight line of vision to some part of levee or easement.*



**AFTER:**  
*Allows us to get a clear, unobstructed view of the levee crown, slope, and toe.*

# Steps Taken to Maintain Federal Funding for Our Levees

**IT'S HARD TO IMAGINE TODAY,** but stories from the early 1800s tell of a vast inland sea that submerged much of our region for weeks or months. Sacramento and surrounding communities owe their very existence to the complex system of levees, reservoirs, flood basins, and other flood-control mechanisms constructed over the last 160 years.

However, maintaining a system that can withstand powerful floodwaters is not easy. It's a costly, never-ending job that local agencies can only do with the support of state and federal partners that fund and provide services needed to rehabilitate the region's aging system.

One of our major sources of emergency repair funding is provided under Public Law 84-99, which allows the U.S. Army Corps of Engineers (USACE) to supplement local flood-control system rehabilitation efforts. To qualify for federal funding and service support, local agencies must do their part to maintain system integrity, which includes bringing systems into compliance with current regulations. The USACE verifies compliance by performing continuing eligibility inspections (CEIs) every few years to identify issues local agencies must correct to maintain PL 84-99 funding.

In 2016 and 2017, the USACE inspected the Dry Creek, Robla-Arcade, and American River North and South levee systems, which we maintain. Not surprisingly, since the levees were constructed a hundred years ago and contain sections built to much earlier standards, USACE inspectors identified a number of problems. Most significant are several levee encroachments, such as drainage and wastewater pipes that run through the levees. Other encroachments include structures built within the levee easements—a swimming pool, buildings, and retaining walls that were built under permits issued decades ago.

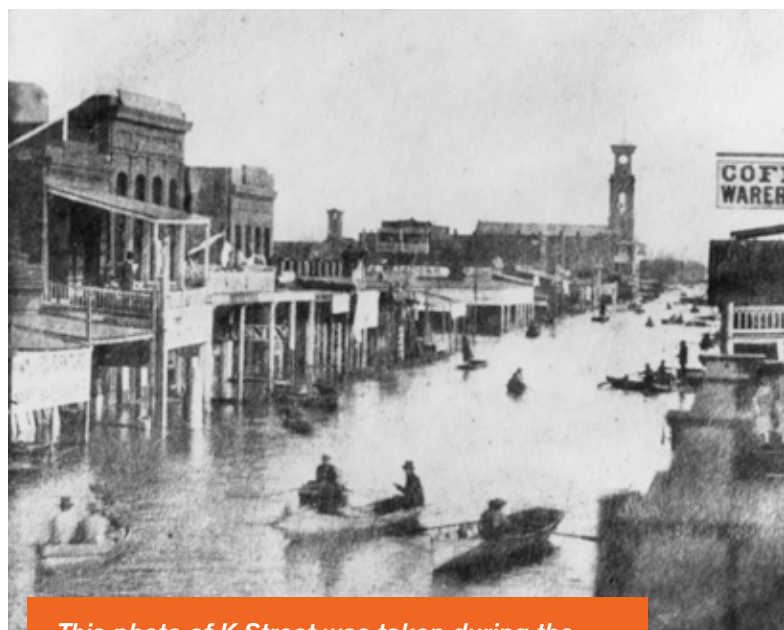
Because each system's grade is determined by its lowest-rated segment, we expect these items to impact the systems' ratings when the USACE issues its CEI report. To outline and prioritize our levee rehabilitation actions, we prepared two system-wide improvement framework (SWIF) letters of intent for the following:

- **AMERICAN RIVER SOUTH:** Maintenance Area 09 – City of Sacramento – American River Left Bank Levee System

- **NORTH BASIN:** American River North, Robla-Arcade, and Dry Creek Levee Systems

The letters of intent outlined the issues, our progress on correcting them, and interim actions we are taking until long-term solutions can be implemented. Following the USACE's acceptance of our letter of intent for the American River South section, we prepared and submitted the final SWIF documents for approval. We will do the same when we receive approval for the North Basin letter of intent. Taking these steps proactively allows us to maintain PL 84-99 funding as we await approval of the SWIFs and, once approved, implement the remaining SWIF actions.

To learn more about the problems identified by the USACE and the risks they present, as well as to view the SWIF documents, go to [arfed.org/notices](http://arfed.org/notices).



*This photo of K Street was taken during the flood of January, 1862.*





**FloodWise:** A publication of the American River Flood Control District.

OFFICE: (916) 929-4006 EMAIL: [info@arfed.org](mailto:info@arfed.org) [www.arfed.org](http://www.arfed.org)

**BOARD OF TRUSTEES**

Brian F. Holloway  
Bettina C. Redway  
Cyril A. Shah  
William J. Pavão  
Steven T. Johns

**GENERAL MANAGER**

Timothy R. Kerr, P.E.

**SUPERINTENDENT**

Ross Kawamura

**OFFICE MANAGER**

Malane Chapman

**BOARD OF TRUSTEES' MEETINGS**

Open to the public  
Second Friday of every month at 11:00 a.m.

185 Commerce Circle  
Sacramento, CA 95815

## Employee Spotlight

### Thank you, Richard

If you've ever talked to one of our people in the field, there's a good chance that person was Richard Marck. Richard began working with us in 1991 and rose through the ranks to become superintendant in 2009. He retired this year to enjoy traveling, spending time in the great outdoors, and cooking. We congratulate him on a successful career and wish him a long and happy retirement.

**ROSS KAWAMURA**, another valuable, long-time member of our crew has stepped into the role of superintendant. Please feel free to say hello and get to know Ross the next time you see him in the field.



## Numbers to Keep Handy

- **American River Flood Control District (ARFCD)**  
(916) 929-4006 • [www.arfed.org](http://www.arfed.org)
- **The Sacramento Area Flood Control Agency (SAFCA)**  
(916) 874-7606 • [www.safca.org](http://www.safca.org)
- **County of Sacramento**  
3-1-1 • [www.saccounty.net](http://www.saccounty.net) or [www.sacflood.org](http://www.sacflood.org)
- **City of Sacramento**  
3-1-1 • [www.cityofsacramento.org](http://www.cityofsacramento.org) or [www.cityofsacramento.org/utilities](http://www.cityofsacramento.org/utilities)

## Boardroom Dedicated to Long-Time Advocate

This year, we dedicated our boardroom to Karolyn W. Simon in honor of her tireless efforts on behalf of flood protection in our region. Karolyn served on the district's board of trustees from 1994 to 2017. Her unflagging dedication to monitoring district operations and advocating for the people we serve was truly remarkable and very much appreciated by all who had the honor of working with her.

# American River Flood Control District



Retiree Medical Actuarial Valuation  
September 1, 2016

November 28, 2017

American River Flood Control District (“ARFCD”)  
165 Commerce Circle, Suite D  
Sacramento, CA 95815

## CERTIFICATION LETTER

In response to the reporting requirements of Statement Number 45 of the Government Accounting Standards Board (“GASB 45”), this report documents the results of an actuarial valuation of employer-provided Other Post Employment Benefits (“OPEB”). The purpose of this valuation is to provide an assessment of OPEB liability relating to retiree medical benefits provided by ARFCD. The actuarial valuation determines the liability for retiree medical and the Annual Required Contribution (“ARC”) needed to fully fund said liability (although full funding is not required).

In preparing the valuation, we relied on electronic data and verbal information supplied by ARFCD. If any element of the demographic or benefit summaries are incorrect, we should be notified immediately.

We deeply appreciate the cooperation of Malane Chapman in providing us with information and explaining the benefit provisions, as well as her input into our report draft.

Sincerely,

Rick Roeder, MAAA, FSA  
Roeder Financial

## BACKGROUND

GASB Statement #45 requires government entities to record expense and report unfunded OPEB liabilities on their annual financial statements. Prior to the implementation of GASB 45, this benefit was not qualified, reported or funded. Accrual accounting is meant to match the timing between incurred cost and when it is reported. OPEB liabilities reflect an accrual accounting approach and should match the year(s) in which the benefits are earned. Prior to GASB 45, most agencies used pay-as-you-go reporting, only accounting for the cost when there was a cash outlay (i.e. the premium paid after retirement). GASB 45 was created in an attempt to:

- *Create improved financial transparency;*
- *Create better alignment between public and private sector accounting;*
- *Provide clarity among bargaining groups to show their true cost of benefits*
- *Provide employers knowledge of the true cost of benefits over time;*
- *Provide investors knowledge of the true long-term liabilities; and,*
- *Show the decision makers a cost that should be recognized.*
- *Assist bond rating agencies to more accurately provide ratings.*

Rating agencies may utilize OPEB liabilities of government agencies in their bond rating evaluation. This analysis will not necessarily have any negative impact. Rating agencies will consider whether a plan is in place to manage liabilities and whether an agency has the ability to meet annual costs. **Management of OPEB benefits is desirable. Prior to the issuance of GASB 45, many governmental entities traditionally have chosen not to actuarially fund their OPEB obligations.** Subsequently, many entities have either considered or implemented some degree of actuarial funding to minimize the amount of recorded OPEB expense.

An actuarial estimate is required to determine the ARC and liability associated with an OPEB. An actuarial valuation is a mechanism to estimate the present value, timing and magnitude of payments made in the future.

The actuarial valuation incorporates inputs such as the benefit provisions, participant data, demographic assumptions and economic assumptions. A valuation results with needed financial information. For entities with fewer than 200 participants, such as ARFCD, this valuation does not need to be completed more often than triennially as long as the “substantive plan” does not change.

-2-

If ARFCD elects to fully or partially fund OPEB obligations at some future time, a logical place to fund the plan is through the retiree medical trust (“CBERT”) sponsored by CalPERS. This trust does have some requirements for the actuarial and funding assumptions used by entities who use the trust. We believe that this valuation complies with all requirements imposed by CalPERS.

If ARFCD continues to not fund OPEB obligations, in addition to the recorded expense mandated by OPEB, a Net OPEB Obligation (“NOO”) will accrue as the annual actual contributions fall short of the ARC.

The term “ARC” is unfortunate and needs clarification. A better term than “Annual Required Contribution” would be “Annual Required Expense” since GASB 45 does not require plan sponsors to actuarially fund their OPEB program.

## ACTUARIAL VALUATION

In order to determine the Annual Required Contribution (“ARC”) and the GASB 45 liability, an actuarial valuation must periodically be performed. An actuarial valuation is a snapshot to estimate the present value, timing and amount of future benefits to be paid. To complete a valuation, demographic data is needed for current and potential future benefit recipients. Benefits must be fully understood by the actuary to be properly valued. Last, assumptions must be made on future activity in a wide variety of areas: monthly health premiums, degree of usage, future anticipated employment levels, assumed investment returns and participant longevity are some of the key assumptions. Assumed investment returns and anticipated future medical inflation seem to defy reliable prediction. Thus, it is important to recognize that two actuaries can reasonably come up with different results.

The ARC and liability will also depend on the actuarial method selected. The method chosen will allocate costs differently for active employees between past and anticipated future service. There are six permitted funding methods. Entry Age Normal is the funding method most commonly used. We have selected this method for ARFCD.

ARFCD has not actuarially funded OPEB liabilities. Thus, the discount rate selected will reflect the anticipated long-term yield on a cash portfolio.

-3-

We again are using an assumed investment return assumption of 3.5%. ARFCD has the opportunity to significantly lower the ARC in future valuations. If ARFCD has an irrevocable, written policy to fund the ARC, a significantly higher discount rate could be used if the invested assets support a higher rate. For example, the retiree medical trust established in 2007 by CalPERS would permit a plan sponsor to use an assumption or roughly 7% if ARFCD makes full annual, actuarial contributions to their trust vehicle. Using an assumed discount rate of 7% would reduce the ARC by somewhere in the 40-50% range.

## SELECTION OF ACTUARIAL METHOD

The Entry Age Normal Cost method determines an individual level cost as a percent of payroll. In other words, if an individual's pay is assumed to increase by 4% per year, the dollar amount of the normal cost also increases by 4%.

### Selection of Discount Rate Used to Calculate Pension Expense

An important assumption in determining the expense is the selection of the discount rate. Simply, the discount rate reflects the reality that \$1 in the future is not as valuable as \$1 today. A critical element in determining such rate is the assumed yield that today's dollar can be invested.

The CBERT medical trust, established by CalPERS in 2007, enables a plan sponsor to use the same 7.5% discount rate as is used in your pension funding. Such an assumed rate is based on billions of dollars that are fully invested, much of it in equities, with the promise of future annual, actuarially determined contributions being made.

GASB 45 dictates that a lower discount rate will apply if a plan is not actuarially funded and/or is invested in an asset mix with lower expected yields. Absent a binding, formal policy by the ARFCD to **fully** fund the actuarially required contribution ("ARC"), the starting point to determine a discount rate would be 3.5%.

-4-

We believe 3.5% is a reasonable long-term rate for a plan with no advance actuarial funding that solely makes year pay-as-you-go reimbursements. This rate is based, in part, on a 20-year municipal bond index. This rate is slightly higher than the inflation assumption used by CalPERS in ARFCD's valuation for pension benefits. We do take a long-term view in setting this rate since the liabilities associated with retiree medical obligations extend out numerous decades in the future. In recent years, short-term cash pools have earned much less than 3.5%. However, such earnings remain low from a historical perspective. The impact of using a 3.5% rate, compared to a 7.0% discount rate, is pronounced. For a 40-year-old active member, the Entry Age Normal Cost can easily double when using a 3.5% rate compared to 7.0%.

ARFCD should realize the strong motivation to set up a strong funding program so that the highest reasonable discount rate can be used. A higher discount rate can dramatically reduce both the liability shown on your financial statements and the Annual Required Contribution ("ARC"). From the retirees' perspective, it is also best that ARFCD will, in fact, adhere to a formal policy of robust actuarial funding.

For ARFCD to benefit from use of a higher discount rate, there needs to be advance actuarial funding with monies put into an irrevocable benefit trust pursuant to a formal written agreement which ratifies such advance funding. Partial pre-funding can occur if the near-term contributions, associated with full actuarial funding, are deemed to be too much of a burden. In the event of partial pre-funding, an appropriate discount rate between 3.5% and 7.25% would be selected.

## SELECTION OF AMORTIZATION PERIOD

ARFCD has the option of selecting both the methodology and the financing period used to recognize the financing of unfunded accrued liabilities ("UAL"). ARFCD expressed the desire to continue to use the longest permitted amortization period, 30 years, and level percent of payroll financing, will have such impact.

We did use 30-year amortization period to minimize the ARC, as requested by ARFCD. From a purist's perspective, it would be best to amortize unfunded liabilities over a much shorter period -- the average remaining future working lifetime of the active members. By so doing, one does not run into the issue of continuing to expense for employees well after the end of their working career. In this way, there is a much closer correlation between the end of an employee's working career and the completion of expensing the benefit. Typically, such period is 11-15 years.

-5-

## SUMMARY OF DEMOGRAPHIC DATA

### Summary of Active Member Data

The ages at the valuation date of the 7 valued active employees (10 in the 2013 valuation) is as follows:

65+	0	40-44	1
60-64	0	35-39	2
55-59	0	30-34	1
50-54	2	25-29	0
45-49	0	Under 25	2

Average Age: 41.9 years (45.0 years in 2013 valuation)

Average Service: 5.3 years (14.4 years in 2013 valuation)

Average Annual Pay: \$74,850 (\$70,464 in the 2013 valuation)

### Summary of Benefit Recipient Data

The ages at the valuation date of the eight benefit recipients by attained age are as follows:

50-54	1	65-69	1
55-59	1	70-74	0
60-64	3	75-79	2

Average Age: 63.8 years  
70.7 years in 2013 valuation (3 retirants)



-6-

**ARFCD Actuarial Exhibits**  
**Fiscal Year End June 30, 2016**

**GASB 45 Actuarial Accrued Liability (“AAL”)**

This reflects the portion of the actuarial present value of retiree medical benefit attributed to past service. For retirants, there is no difference between the present value of benefits and the actuarial value of their actuarial accrued liability.

	AAL	Subsidy
Retired	\$ 3,248,844	\$ 372,757
Active	476,538	67,154
<b>Total</b>	<b>\$ 3,725,382</b>	<b>\$ 439,911</b>

Average AAL per Active: \$ 77,670 (292,159 in 2013 valuation)  
Average AAL per Retired: \$ 452,700 (221,024 in 2013 valuation)

**Annual Required Contribution (ARC)**

	Retired	Active	Total
<b>Normal Cost Component</b>			
Normal Cost	---	\$ 63,379	\$ 63,379
Interest	---	2,219	2,219
<b>Total</b>	---	<b>\$ 65,598</b>	<b>\$65,598</b>
<b>Amortization Component</b>			
AAL	\$3,621,601	\$ 534,692	\$4,156,293
Less: Assets	-0-	-0-	-0-
Unfunded AAL	\$3,621,601	\$ 534,692	\$4,156,293
Divided by Present Value Factor	27.9903	27.9903	27.9903
Amortization Payment	\$125,619	\$18,859	\$ 144,478
Interest	4,397	660	5,057
<b>Total</b>	<b>\$ 130,016</b>	<b>\$19,519</b>	<b>\$ 149,535</b>
<b>Annual Required Contribution</b>	<b>\$ 130,016</b>	<b>\$85,117</b>	<b>\$215,133</b>

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**ARFCD ARC Expense as Percent of Active Participant Payroll  
September 1, 2016**

It is useful to reflect the calculated ARC expense as a percent of the valuation payroll of active employees who are potential recipients of retiree medical reimbursements.

	<b>2016</b>	<b>2013</b>
Normal Cost Rate	12.52%	18.55%
Amortization Rate:	<u>28.54%</u>	<u>18.22%</u>
<b>Total Rate of Payroll</b>	<b>41.06%</b>	<b>36.77%</b>
Annual Valuation Payroll	\$523,951	\$704,638
Average Participant Pay	\$ 74,850	\$ 70,464

## COMMENTS on VALUATION RESULTS

**COMMENT A:** The reason for the increase in the rate, as a percentage of active member payroll, relates to a change in an actuarial standard in regard to the “implicit rate subsidy.” In a community-rated plan, the premiums for retirants, less than age 65, is the same as for actives. Since there is higher costs associated with the under-age-65 population than the average for the active members, recent actuarial standards mandate that we recalculate the “true” rate at each age and then apply such recalculation to your retiree population.

As a result, ARFCD’s actuarial required expense increased by \$23,126 due to the implicit rate subsidy. If ARFCD wishes to deduct an offsetting expense for active members, your auditors may wish consider this approach which offsets the added imputed costs associated with your retirants under age 65.

**COMMENT B:** We strongly recommend that ARFCD start a formal funding program. One of the benefits of doing so would be to reduce the ARC by roughly 40-50%.

**COMMENT C:** The significant lowering of the normal cost in this valuation and future valuations is the result of two factors. The impact of the vesting schedule for post-2006 hires significantly reduces cost. Further, recent hires are subject to the PEPRA provisions for smaller retirement benefits. These smaller benefits result in later assumed retirement ages. Later retirements have a pronounced impact on OPEB cost especially since pre-age-65 benefits are greater than for those on or after age 65.

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## Summary of Significant Benefit Provisions

### BENEFIT SUMMARY

*For Employees Hired Prior to November 15, 2006:*

For full-time employees, same benefits as for active members, inclusive of spouse and dependent benefits.

For qualifying part-time employees, same benefits as for an employee-only benefit.

Qualifying surviving spouses will receive a reimbursement equal to 50% of the two-spouse rate.

*The Following Changes For Employees Hired After November 15, 2006:*

The husband and wife premium rates for full-time employees. For qualifying part-time employees, only the employee-only rate. Premium reimbursement is subject to a vesting schedule.

### BENEFIT ELIGIBILITY

For active members, full-time employees and those regular part-time employees who annually work at least 1,000 hours. For service retirants, completion of at least five years of continuous full-time service with ARFCD and retiring directly from ARFCD service. For disability retirants, upon eligibility for a disability pension.

If Medicare eligible, the retiree must pay for Medicare Part A and Part B coverage.

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**VESTING**

For those retirees hired after November 15, 2006, the following vesting schedule will apply:

<u>Years of Vesting Service</u>	<u>Percent</u>
Less than Five	0%
5-10	25%
11-19	25% + 2.5% of the excess of Years of Vesting service over 10
20+	50%

**Valuation Date**

September 1, 2016

**Eligible Spouse**

Must be married to an active member at time of retirement

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## Summary of Significant Actuarial Assumptions and Provisions

### Medical Rate Inflation

4% per annum, compounded.

### Discount Rate

3.5% per annum, compounded annually. (5% was used in the 2010 valuation)

### Amortization Period

30 years. Level Percent of Pay, using 3% annual overall payroll inflation

### Surviving Spouse/Domestic Partner

85% of qualifying retirees were assumed to have a surviving spouse/domestic partner at time of retirement (80% was used in the 2010 valuation). We assumed males to be three years older than females.

### Mortality Rates

Samples of pre-retirement mortality probabilities of dying in the next year:

<u>AGE</u>	<u>MALE</u>	<u>FEMALE</u>
25	.00047	.00030
30	.00059	.00035
35	.00069	.00047
40	.00088	.00063
45	.00120	.00085
50	.00170	.00115
55	.00244	.00154
60	.00325	.00199
65	.00418	.00275

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Samples of post-retirement mortality probabilities of dying in the next year:

AGE	MALE	FEMALE
55	.0060	.0042
60	.0071	.0044
65	.0083	.0053
70	.0130	.0099
75	.0220	.0172
80	.0390	.0290
85	.0697	.0524
90	.1297	.0989
95	.2244	.1849

### Disability Assumptions

Based upon rates used in the 2014 CalPERS valuation.

### Withdrawal Assumptions

Sample rates used, which include vested terminations:

<u>Years of Service</u>	-----GENERAL-----		
	<u>20</u>	<u>30</u>	<u>40</u>
0	17.42%	16.06%	14.68%
1	15.45	14.09	12.71
2	13.48	12.12	10.74
3	11.51	10.15	8.77
4	9.54	8.18	6.80
5	8.68	7.01	5.54
10	6.68	5.07	0.71
15	5.03	3.47	0.23
20	3.67	0.21	0.05
25	0.17	0.05	0.01
30	0.05	0.01	0.01

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**Retirement Assumptions**

Retirement assumptions assume service retirement. Rates of retirement will depend, in part, on age at hire. Sample probabilities follow:

**GENERAL "CLASSIC"**

<b>ENTRY AGE:</b>	<b>25</b>	<b>40</b>		<b>ENTRY AGE:</b>	<b>25</b>	<b>40</b>
50	5.5%	3.3%		59	16.7%	10.2%
51	4.3%	2.6%		60	19.6%	11.9%
52	4%	2.5%		61	18.4%	11.2%
53	5.2%	3.2%		62	26.5%	16.1%
54	8.1%	4.9%		63	23%	14%
55	17.3%	10.5%		64	23%	14%
56	11.5%	7%		65	31.1%	18.9%
57	12.7%	7.7%		66	23%	14%
58	15%	9.1%		67	23%	14%

**GENERAL "PEPRA"**

<b>ENTRY AGE:</b>	<b>30</b>	<b>50</b>		<b>ENTRY AGE:</b>	<b>30</b>	<b>50</b>
50	N/A	N/A		59	13.7%	5.8%
51	N/A	N/A		60	14.6%	6.2%
52	2.4%	N/A		61	14.6%	6.2%
53	3.1%	N/A		62	22.9%	9.7%
54	5.0%	N/A		63	21.0%	8.9%
55	10.4%	4.4%		64	22.2%	9.4%
56	7.2%	3.0%		65	30.4%	12.9%
57	8.6%	3.6%		66	24.7%	10.5%
58	11.0%	4.6%		67	24.7%	10.5%

**Pay Increase Assumptions**

Varies with entry age; eventually grading down to 3% annually

**Implicit Rate Subsidy**

In completing our implicit rate subsidy analysis, the following assumptions were made:

Average Age For Under Age 65 Members: 43  
 Average Annual "True" Increases in Rate: Ages 43-54: 2%  
 Ages 55-64: 2.5%

We did not assume the implicit rate subsidy would apply to post-age-65 retirants.



**RESOLUTION NO. 2017 - 07  
AMERICAN RIVER FLOOD CONTROL DISTRICT  
BOARD OF TRUSTEES**

***Dedication of the KAROLYN W. SIMON Board Room***

**WHEREAS,** Karolyn W. Simon was elected to the Board of Trustees of the American River Flood Control District in December 1994 and faithfully served on the Board until March 2017 and,

**WHEREAS,** during her tenure on the Board, Karolyn served as District President and participated as a member of both the Personnel and Benefits Committee and the Finance Committee. This required attending numerous meetings during her years of service where she oversaw the District’s annual budget and assisted in the careful management of District operating and reserve funds and,

**WHEREAS,** because of her passion for protecting the Sacramento community, Karolyn was chosen to represent the District as a member of the Sacramento Area Flood Control Agency where she provided effective oversight and acted as an advocate for the needs of the District and,

**WHEREAS,** she presided over and facilitated an era of modernization that resulted in a model urban flood control district and,

**WHEREAS,** her vision for the future needs of the District helped initiate the pursuit of establishing a new District headquarters facility, and

**WHEREAS,** her steadfast oversight and attention to detail helped shape the new headquarters into a premier flood control facility, and

**WHEREAS,** her friendly nature and genuine concern for the well-being of District Staff has earned her the lifelong friendship, respect, and gratitude of all who have benefitted from working with her.

***NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF THE AMERICAN RIVER FLOOD CONTROL DISTRICT***

The Board meeting room at the new District Headquarters shall be designated as the Karolyn W. Simon Board Room in recognition of her dutiful public service to the thousands of residents and businesses in the District while serving as a member of the American River Flood Control District Board of Trustees. The entire Sacramento community owes her a debt of gratitude for her efforts to improve flood safety and improve the District’s ability to complete its core mission.

***American River Flood Control District  
Board of Trustees***

\_\_\_\_\_  
Brian F. Holloway, President

\_\_\_\_\_  
Bettina C. Redway, Vice President

\_\_\_\_\_  
William J. Pavão, Secretary

\_\_\_\_\_  
Cyril A. Shah, Treasurer

\_\_\_\_\_  
Steven T. Johns, Trustee

**11/1: Dry Creek North Levee Flood Safety Plan meeting.** I met with Nicole Ortega-Jewel from MBK Engineers to provide information on the development of a new Flood Safety Plan for the District. MBK was tasked by SAFCA to develop the FSP for the Dry Creek Levee Accreditation effort. The plan can be written general enough to be applicable to the entire District.

**11/2: Bureau of Reclamation Reservoir Operations meeting.** Pete Ghelfi from SAFCA scheduled this meeting so that County Office of Emergency Services staff and ARFCD could meet with the Bureau's reservoir operators for Folsom Dam. Roger Ince from County OES and I shared the local perspective of the need to receive flood release information as soon as possible to schedule downstream efforts. Bureau staff described their challenges for requesting release change orders then having to adjust plans based on new hydrologic forecasts.

**11/10: American River Flood Control District Board of Trustees meeting.** The Board met in regular session. The agenda item included an encroachment permit application for installation of a sewer line crossing of the District levee at Coda Lane.

**11/13: DWR Annual Flood Fight Training.** District staff attended this annual training to refresh our knowledge of levee patrolling and flood fight methods. The first half of the day consisted of classroom instruction and videos and the second half consisted of deploying flood fight methods in the field. Trustee Holloway attended the classroom training and was impressed with the DWR videos.

**11/15: Central Valley Flood Protection Board Coordination Committee meeting.** I attended this meeting to hear presentations on the progress of the 2017 Flood Critical Sites repairs. DWR presented a status update on the number of sites submitted and those to be repaired by the USACE and those to be repaired by DWR. Some sites will not be repaired prior to flood season and the State has prepared site specific contingency plans to be administered by the local Levee Maintaining Agencies.

**11/21: Sprint Fiber Optic Encroachment Site Visit.** I met with Sprint's field technician Ed Perez and Tim Williams from Kelifelder Associates to locate the buried fiber optic line at the junction of Arcade Creek and the NEMDC. The line is believed to cross directly under the location of some excessive seepage noted in January and February 2017.

**11/27: SAFCA Agency Staff meeting.** I attended this meeting to coordinate on local flood control topics. Items of discussion included the Yolo Bypass working group, the City's contingency plans for two flood damage sites, ARFCD's repair of numerous homeless camp damage sites, and RD 1000's treatment of a critical erosion site on the Garden Highway.

**11/30: American River Flood Control District Newsletter Committee meeting.** The Committee met to review the Winter 2017-18 Newsletter. The Newsletter will be presented to the District Board of Trustees for final approval at their December meeting.