

AGENDA
EL DORADO HILLS COUNTY WATER DISTRICT
(FIRE DEPARTMENT)
BOARD OF DIRECTORS
SEVEN HUNDRED SIXTY FIFTH MEETING
Thursday, August 17, 2017
6:00 p.m.
(1050 Wilson Blvd., El Dorado Hills, CA)

- I. Call to Order and Pledge of Allegiance
- II. Consent Calendar (All matters on the Consent Calendar are to be approved by one motion unless a Board member requests separate action on a specific item.)
 - A. Approve Minutes of the 765th Board meeting held July 20, 2017
 - B. Approve Financial Statements for July 2017

End Consent Calendar
- III. Oral Communications
 - A. EDH Professional Firefighters
 - B. EDH Firefighters Association
 - C. Latrobe Advisory Committee
 - D. Any person wishing to address the Board on any item that is not on the Agenda may do so at this time. No action may be taken on off-agenda items unless authorized by law. Comments shall be limited to three minutes per person and twenty minutes for all comments unless otherwise authorized by the Board.
- IV. Presentation
 - A. Presentation to retired Captain/Paramedic Chris Storz
 - B. Badge pinning
- V. Correspondence
 - A. Email from Vincent Sherman
- VI. Attorney Items
 - A. Closed Session; Conference with legal counsel pursuant to Government Code Section 54956.9 (d)(2); Pending Litigation; One Potential Matter.
- VII. Committee Reports
 - A. Administrative Committee (Directors Durante and Hartley)
 - B. Finance Committee (Directors Giraudo and Winn)
 - C. Ad Hoc Committee Reports
 - 1. Communications Committee (Directors Durante and Winn)
 - 2. Training Facility Committee (Directors Hartley and Durante)
 - 3. CSD/Fire Collaboration Committee (Directors Giraudo and Durante)
 - 4. Station 91 Building Committee (Directors Durante and Giraudo)
 - 5. Cameron Park CSD/EDH Fire Collaboration Committee (Directors Durante and Hartley)
- VIII. Operations Report
 - A. Operations Report (Receive and file)
 - B. Review and update regarding Joint Powers Authority

- IX. Fiscal Items
 - A. Review and approve Resolution 2017-26 to approve an amendment to the contract between the Board of Administration California Public Employees' Retirement System and the Board of Directors El Dorado Hills County Water District
- X. New Business
 - A. Fire Station 92 Exterior Maintenance and Status Discussion
 - B. Deputy Chief strike team reimbursement
- XI. Old Business
- XII. Oral Communications
 - A. Directors
 - B. Staff
 - C. Schedule upcoming committee meetings
- XIII. Adjournment

Note: Action may be taken on any item posted on this agenda.

This Board meeting is normally recorded.

EL DORADO HILLS COUNTY WATER DISTRICT

SEVEN HUNDRED SIXTY FOURTH MEETING OF THE BOARD OF DIRECTORS

Thursday, July 20, 2017

6:00 p.m.

District Office, 1050 Wilson Boulevard, El Dorado Hills, CA 95762

I. CALL TO ORDER AND PLEDGE OF ALLEGIANCE

President Hartley called the meeting to order at 6:00 p.m. and Chief Keating led the Pledge of Allegiance. Directors in attendance: Durante, Giraudo, Hartley, Hus, and Winn. Director Winn joined the meeting during the EDH Development Snapshot (Agenda Item IV.A). Staff in attendance: Chief Roberts and Director of Finance Braddock. Counsel Cook was also in attendance.

II. CONSENT CALENDAR

- A. Approve Minutes of the 762nd Board meeting held June 15, 2017
- B. Approve Minutes of the 763rd Special Board meeting held June 21, 2017
- C. Approve Financial Statements for June 2017

Director Durante made a motion to approve the consent calendar, seconded by Director Giraudo and unanimously carried.

President Hartley requested that **Item VI-A** be moved on the agenda after **Item XI. Old Business** and the Board concurred.

III. ORAL COMMUNICATIONS

- A. EDH Professional Firefighters – None
- B. EDH Firefighters Association – None
- C. Latrobe Advisory Committee – None
- D. Public Comment – Tim White, citizen, invited the Board to attend the August meeting for APAC August 9, at 7:00 p.m. Metro Fire Assistant Chief Johnson thanked the prevention team for the help and information as they considered an electronic plan intake process. Richard Ross, citizen, asked if the Board directed the Chief to speak on behalf of the Department regarding legislation SB 649.

IV. PRESENTATION

- A. EDH Development Snapshot – Fire Marshal Cox presented a slideshow covering current development projects in El Dorado Hills.

- V. CORRESPONDENCE – Chief Roberts stated that the company interested in the vacant District property sent a letter of intent to purchase the property and the offer appears to be above market. Counsel Cook stated that a RFP for the property will need to be posted for a minimum of 30 days prior to the sale.

VI. ATTORNEY ITEMS

- A. Closed Session; Conference with legal counsel pursuant to Government Code

Section 54956.9 (d)(2); Pending Litigation; One Potential Matter.

VII. COMMITTEE REPORTS

- A. Administrative Committee (Directors Durante and Hartley) – No report.**
- B. Finance Committee (Directors Giraudo and Winn) – Director Giraudo reported that the Finance Committee met and is recommending approval of the Staff recommendation under New Business to temporarily increase the approved positions list. He added that the committee also discussed a revision to the check signing procedure.**
 - 1. Closed Session pursuant to Government Code Section 54957.6, conference with labor negotiations; items under negotiation: Memorandum of Understanding with the El Dorado Hills Professional Firefighters; District negotiators are Directors Giraudo and Winn or designated alternate – Removed from agenda.**
- C. Ad Hoc Committee Reports**
 - 1. Strategic Planning Committee (Directors Hus and Giraudo) – No Report. Remove committee from agenda going forward.**
 - 2. Communications Committee (Directors Durante and Winn) – Chief Roberts reported that he expects that both feasibility studies will be ready for review at the September Board meeting.**
 - 3. Training Facility Committee (Directors Hartley and Durante) – Chief Roberts reported that Staff met with Dennis Dong for an update and stated that he is coordinating with the vendors for the prebuilt props to verify what is needed for the foundation and get accurate numbers.**
 - 4. CSD/Fire Collaboration Committee (Directors Giraudo and Durante) – No report.**
 - 5. Station 91 Building Committee (Directors Durante and Giraudo) – Chief Roberts stated that West Coast Restoration hired mechanical and electrical engineers to develop plans to be submitted to the County that should be done within the next week and they will move forward when the plans are approved.**
 - 6. Cameron Park CSD/EDH Fire Collaboration Committee (Directors Durante and Hartley) – No report.**

VIII. OPERATIONS REPORT

- A. Operations Report (Receive and file)**
- B. Review and update regarding Joint Powers Authority – Director Hartley stated that the JPA is moving forward with the iPCR system.**

IX. FISCAL ITEMS – Director of Finance Braddock stated that the recently released CalPERS actuarial report noted that the unfunded liability for the Classic Safety Plan

went up by about three million dollars and the funded status dropped to 75.1%. She also pointed out the rate projection chart showing a significant increase over the next seven years from 20.5% to 23.2 % and an increase in the UAL payment from the current \$800,000 to \$1,900,000.

- A. Review and approve Resolution 2017-23 to approve an amendment to the contract between the Board of Administration California Public Employees' Retirement System and the Board of Directors El Dorado Hills County Water District** – Director of Finance Braddock explained that this resolution amends the CalPERS contract aligning it with the stated employee contribution from the approved Administrative Wages and Benefits Agreement.

Director Giraudo made a motion to approve Resolution 2017-23 to approve an amendment to the contract between the Board of Administration California Public Employees' Retirement System and the Board of Directors El Dorado Hills County Water District, seconded by Director Winn, and unanimously carried. (Roll call: Ayes: 5; Noes: 0)

X. NEW BUSINESS

- A. Review and approve Resolution 2017-24 confirming the report of the Fire Marshal related to cost of weed abatement and imposing such costs upon properties upon which abatement has occurred** – Fire Marshal Cox stated that abatement has occurred on non-compliant lots and this resolution will impose the cost on the property owners. He added that one property was separated out on the bottom because the property owner is not yet aware of the tree that has fallen on their property and they have until August 4th to reply and take action to abate the property.

Director Winn made a motion to approve Resolution 2017-24 confirming the report of the Fire Marshal related to cost of weed abatement and imposing such costs upon properties upon which abatement has occurred, seconded by Director Giraudo, and unanimously carried. (Roll call: Ayes: 5; Noes: 0)

- B. Review and approve request to temporarily increase the approved positions listing by two (2) Firefighter/Paramedic positions** – Chief Roberts stated that Staff is recommending a temporary increase in the approved positions listing allowing the Department to fill overtime created by strike teams, vacations, and long-term leaves until, through attrition, the number drops back down to the current approved number. He stated that the impact would likely be cost neutral and this would allow Staff to run one academy for five people rather than two separate academies.

Director Winn made a motion to approve request to temporarily increase the

approved positions listing by two (2) Firefighter/Paramedic positions, seconded by Director Giraudo, and unanimously carried.

C. Review and approve Resolution 2017-25 in appreciation to Retired Captain/Paramedic Chris Storz

Director Durante made a motion to approve Resolution 2017-25 in appreciation to Retired Captain/Paramedic Chris Storz, seconded by Director Winn, and unanimously carried. (Roll call: Ayes: 5; Noes: 0)

D. Review and approve surplus vehicle; 8546 – Chief Roberts stated that 8546 is beyond the useful life and Staff would like to offer the vehicle to surrounding agencies for minimal cost.

Director Durante made a motion to approve surplus vehicle; 8546, seconded by Director Winn, and unanimously carried.

E. Review and approve purchase of command vehicle – Chief Roberts stated that Staff recommends purchase of a command vehicle as budgeted.

Director Winn made a motion to approve purchase of command vehicle, seconded by Director Durante, and unanimously carried.

The Board directed Staff to work with Counsel Cook to post a RFP for the sale of the unused property.

XI. OLD BUSINESS – None

The Board adjourned to discuss Closed Session Item VI-A at 7:24 p.m.

The meeting reconvened at 7:38 p.m. The Board took no action during closed session.

XII. ORAL COMMUNICATIONS

A. Directors – None

B. Staff – Chief Keating stated that a new crew replaced the strike team and it appears to be an active fire season.

C. Schedule upcoming committee meetings – The Board scheduled an Admin Committee meeting the week of August 1-3.

XIII. ADJOURNMENT

Director Durante made a motion to adjourn the meeting, seconded by Director Hus, and unanimously carried.

The meeting adjourned at 7:48 p.m.

Approved:

Jessica Braddock, Board Secretary

Jim Hartley, President

El Dorado Hills Fire Department
Revenue and Expense Summary - ALL FUNDS
For the Period Ending July 31, 2017



	PRELIMINARY Full Year Budget FY17/18	Actual July 2017	Actual YTD July 31, 2017	Variance YTD Actual to Full Year Budget	(Target 8%) YTD Actual % of Full Year Budget	Notes/Comments
Revenue						
3240 · Tax Revenue						
3260 · Secured Tax Revenue	16,074,243	-	-	(16,074,243)		County July entries not yet in
3270 · Unsecured Tax Revenue	304,637	-	-	(304,637)		
3280 · Homeowners Tax Revenue	153,660	-	-	(153,660)		
3320 · Supplemental Tax Revenue	248,751	-	-	(248,751)		
3330 · Sacramento County Revenue	29,103	-	-	(29,103)		
3335 · Latrobe Revenue				-		
3335.2 · Latrobe Special Tax	36,840	-	-	(36,840)		
3335.3 · Latrobe Base Transfer	180,000	-	-	(180,000)		
3340 · Property Tax Administration Fee	(387,357)	-	-	387,357		
Total 3240 · Tax Revenue	16,639,876	-	-	(16,639,876)	0%	
3505 · Misc. Revenue, Vacant Lot	-	(16,425)	(16,425)	(16,425)	0%	Net revenue collections less expenditures shown. Timing.
3506 · Misc. Revenue, Fire Prev. Fees	70,000	(6,087)	(6,087)	(76,087)	-9%	AR reversal from prior year. Timing.
3510 · Misc. Operating Revenue						
3512 · JPA Revenue	1,028,857	-	-	(1,028,857)	0%	
3513 · Rental Income (Cell site)	25,200	2,100	2,100	(23,100)	8%	
3515 · OES/Mutual Aid Reimbursement	560,000	-	-	(560,000)	0%	
3520 · Interest Earned	80,000	-	-	(80,000)	0%	
3510 · Misc. Operating Revenue - Other	20,000	-	-	(20,000)	0%	
Total 3510 · Misc. Operating Revenue	1,714,056	2,100	2,100	(1,711,956)	0%	
Total Operating Revenue	\$ 18,423,932	\$ (20,412)	\$ (20,412)	\$ (18,444,344)	0%	
3550 · Development Fee						
3560 · Development Fee Revenue	2,000,000	-	-	(2,000,000)	0%	County July entries not in yet
3561 · Development Fee Interest	-	-	-	-	0%	
Total 3550 · Development Fee	2,000,000	-	-	(2,000,000)	0%	
3570 · Proceeds from Sale of Assets	-	-	-	-	0%	
Total Revenue	\$ 20,423,932	\$ (20,412)	\$ (20,412)	\$ (20,444,344)	0%	

El Dorado Hills Fire Department
Revenue and Expense Summary - ALL FUNDS
For the Period Ending July 31, 2017



	PRELIMINARY Full Year Budget FY17/18	Actual July 2017	Actual YTD July 31, 2017	Variance YTD Actual to Full Year Budget	(Target 8%) YTD Actual % of Full Year Budget	Notes/Comments
Expenditures						
6000 · Salaries & Wages						
6001 · Salaries & Wages, Fire	5,966,813	436,257	436,257	5,530,556	7%	
6011 · Education/Longevity Pay	484,081	34,763	34,763	449,318	7%	
6016 · Salaries & Wages, Admin/Prev	608,685	44,477	44,477	564,208	7%	
6017 · Volunteer Pay	-	-	-	-	0%	
6018 · Director Pay	17,850	-	-	17,850	0%	
6019 · Overtime						
6019.1 · Overtime, Operational	1,561,587	194,960	194,960	1,366,627	12%	
6019.2 · Overtime, Outside Aid	480,000	-	-	480,000	0%	
6019.3 · Overtime, JPA	155,479	17,556	17,556	137,923	11%	
Total 6019 · Overtime	2,197,066	212,516	212,516	1,984,550	10%	
6020 · P.E.R.S. Retirement	2,414,016	759,450	759,450	1,654,567	31%	Annual required lump sum payment made in July.
6030 · Workers Compensation	819,067	-	-	819,067	0%	
6031 · Life Insurance	6,224	-	-	6,224	0%	
6032 · P.E.R.S. Health Benefits	1,495,797	-	-	1,495,797	0%	
6033 · Disability Insurance	16,758	1,323	1,323	15,435	8%	
6034 · Health Cost of Retirees	889,119	300,000	300,000	589,119	34%	Annual required lump sum payment made in July.
6040 · Dental/Vision Expense	179,160	7,874	7,874	171,286	4%	
6050 · Unemployment Insurance	14,490			14,490	0%	
6060 · Vacation & Sick Expense Reserve	100,000			100,000	0%	
6070 · Medicare	134,842	10,537	10,537	124,305	8%	
Total 6000 · Salaries & Wages	15,343,969	1,807,198	1,807,198	13,536,771	12%	
6100 · Clothing & Personal Supplies						
6101 · Uniform Allowance	52,800	23,200	23,200	29,600	44%	Semi-annual uniform allowance paid in July.
6102 · Other Clothing & Personal Supplies	47,620	483	483	47,137	1%	
Total 6100 · Clothing & Personal Supplies	100,420	23,683	23,683	76,737	24%	

El Dorado Hills Fire Department
Revenue and Expense Summary - ALL FUNDS
For the Period Ending July 31, 2017



	PRELIMINARY Full Year Budget FY17/18	Actual July 2017	Actual YTD July 31, 2017	Variance YTD Actual to Full Year Budget	(Target 8%) YTD Actual % of Full Year Budget	Notes/Comments
6110 · Network/Communications						
6111 · Telecommunications	50,544	38	38	50,506	0%	
6112 · Dispatch Services	50,000	-	-	50,000	0%	Dispatch services billed quarterly.
6113 · Network/Connectivity	41,225	3,299	3,299	37,926	8%	
Total 6110 · Communications	141,769	3,337	3,337	138,432	2%	
6120 · Housekeeping	35,268	501	501	34,767	1%	
6130 · Insurance						
6131 · General Insurance	55,000	(1,136)	(1,136)	56,136	-2%	Annual insurance premium paid in October. Partial refund in July for disposed vehicles.
Total 6130 · Insurance	55,000	(1,136)	(1,136)	56,136	-2%	
6140 · Maintenance of Equipment						
6141 · Tires	21,791	-	-	21,791	0%	
6142 · Parts & Supplies	22,209	764	764	21,445	3%	
6143 · Outside Work	118,167	1,323	1,323	116,844	1%	
6144 · Equipment Maintenance	37,334	814	814	36,520	2%	
6145 · Radio Maintenance	25,963	458	458	25,505	2%	
Total 6140 · Maintenance of Equipment	225,464	3,358	3,358	222,106	1%	
6150 · Maintenance, Structures & Ground	98,364	16,037	16,037	82,327	16%	Exterior paint Sta 86
6160 · Medical Supplies						
6161 · Medical Supplies	5,867	-	-	5,867	0%	
Total 6160 · Medical Supplies	5,867	-	-	5,867	0%	
6170 · Dues and Subscriptions	12,361	1,007	1,007	11,354	8%	
6180 · Miscellaneous						
6181 · Miscellaneous	3,352	-	-	3,352	0%	
6182 · Honor Guard	3,562	-	-	3,562	0%	
6183 · Explorer Program	2,095	-	-	2,095	0%	
6184 · Pipes and Drums	-	-	-	-	0%	
Total 6180 · Miscellaneous	9,009	-	-	9,009	0%	
6190 · Office Supplies	20,739	1,765	1,765	18,974	9%	

El Dorado Hills Fire Department
Revenue and Expense Summary - ALL FUNDS
For the Period Ending July 31, 2017



	PRELIMINARY Full Year Budget FY17/18	Actual July 2017	Actual YTD July 31, 2017	Variance YTD Actual to Full Year Budget	(Target 8%) YTD Actual % of Full Year Budget	Notes/Comments
6200 · Professional Services						
6201 · Audit	13,506	-	-	13,506	0%	
6202 · Legal/Human Resources	131,673	8,380	8,380	123,293	6%	
6203 · Notices	2,514	45	45	2,469	2%	
6204 · Other Professional Services	114,650	12,875	12,875	101,775	11%	
6205 · Elections/Tax Administration	-	-	-	-	0%	
6206 · Public Relations	2,958	-	-	2,958	0%	
Total 6200 · Professional Services	265,301	21,300	21,300	244,001	8%	
6210 · Information Technology						
6211 · Software Licenses/Subscriptions	74,651	6,501	6,501	68,150	9%	
6212 · IT Support/Implementation	118,496	269	269	118,227	0%	
Total 6210 · Information Technology	193,147	6,770	6,770	186,377	4%	
6220 · Rents and Leases						
6221 · Facilities/Equipment Lease	-	-	-	-	0%	
6222 · Solar Lease	66,936	5,449	5,449	61,487	8%	
Total 6220 · Rents and Leases	66,936	5,449	5,449	61,487	8%	
6230 · Small Tools and Supplies	76,557	485	485	76,072	1%	
6240 · Special Expenses						
6241 · Training	107,507	4,863	4,863	102,644	5%	
6242 · Fire Prevention	64,699	716	716	63,983	1%	
6243 · Licenses	-	-	-	-	0%	
6244 · Directors' Training & Travel	-	-	-	-	0%	
Total 6240 · Special Expenses	172,206	5,579	5,579	166,627	3%	
6250 · Transportation and Travel						
6251 · Fuel and Oil	62,000	3,522	3,522	58,478	6%	
6252 · Travel	19,184	1,998	1,998	17,186	10%	
6253 · Meals & Refreshments	17,600	1,005	1,005	16,595	6%	
Total 6250 · Transportation and Travel	98,784	6,525	6,525	92,259	7%	

El Dorado Hills Fire Department
Revenue and Expense Summary - ALL FUNDS
For the Period Ending July 31, 2017



	PRELIMINARY Full Year Budget FY17/18	Actual July 2017	Actual YTD July 31, 2017	Variance YTD Actual to Full Year Budget	(Target 8%) YTD Actual % of Full Year Budget	Notes/Comments
6260 · Utilities						
6261 · Electricity	12,372	11	11	12,361	0%	
6262 · Natural Gas/Propane	26,000	20	20	25,980	0%	
6263 · Water/Sewer	15,000	-	-	15,000	0%	
Total 6260 · Utilities	53,372	30	30	53,342	0%	
Total Operating Expenditures	\$ 16,974,533	\$ 1,901,886	\$ 1,901,886	\$ 15,072,647	11%	
Operating Revenue - Operating Expenditures	\$ 1,449,399	\$ (1,922,298)	\$ (1,922,298)	\$ 3,371,697		
6560 · Pension/OPEB UAL Lump Sum Payment	1,000,000	250,000	250,000	750,000	25%	Q1 OPEB PARS Lump Sum Payment made in July.
6720 · Fixed Assets	2,756,600	-	-	2,756,600	0%	
Total Expenditures	\$ 20,731,133	\$ 2,151,886	\$ 2,151,886	\$ 18,579,247	10%	
Total Revenue - Total Expense	\$ (307,201)	\$ (2,172,298)	\$ (2,172,298)	\$ (1,865,097)		
Less: Development Fee Revenue	(2,000,000)		-			
Add: Development Fee Qualified Expenditures	1,342,500		-			
Total Revenue - Total Expense Net of Dev Fees	\$ (964,701)		\$ (2,172,298)			

El Dorado Hills Fire Department

8/14/2017 2:25 PM

Register: 1000 · Bank of America

From 07/01/2017 through 07/31/2017

Sorted by: Date, Type, Number/Ref

Date	Number	Payee	Account	Memo	Payment	C	Deposit	Balance
07/01/2017	STA92 C...		6220 · Rents and Lease...	Solar Lease - S...	1,172.00	X		59,307.25
07/01/2017	STA92 C...		6220 · Rents and Lease...	Solar Lease - S...	1,222.00	X		58,085.25
07/01/2017	STA92 C...		6220 · Rents and Lease...	Solar Lease - S...	845.00	X		57,240.25
07/01/2017	STA92 C...		6220 · Rents and Lease...	Solar Lease - S...	2,210.00	X		55,030.25
07/03/2017		Transfer from LAIF	1074 · Local Agency I...	Confirm #1502...		X	500,000.00	555,030.25
07/03/2017	EFT	El Dorado Disposal S...	-split-	6/1/17-6/30/17	832.55	X		554,197.70
07/05/2017	EFT	P.E.R.S. Retirement	-split-	PR17-7-1	80,409.37	X		473,788.33
07/05/2017	EFT	P.E.R.S. ING	-split-	PR17-7-1	2,774.44	X		471,013.89
07/05/2017	EFT	De Lage Landen Fin...	6190 · Office Supplies	Account # 988...	230.59	X		470,783.30
07/06/2017		Transfer from LAIF	1074 · Local Agency I...	Confirm #1502...		X	1,200,000.00	1,670,783.30
07/06/2017		Deposit	-split-	Deposit		X	5,170.10	1,675,953.40
07/06/2017	EFT	Nationwide Retireme...	-split-	PR17-7-1	20,059.57	X		1,655,893.83
07/06/2017	EFT	U.S. Bank Telepay	2010 · Accounts Payable	Confirmation #...	18,504.96	X		1,637,388.87
07/06/2017	EFT	CalPERS	-split-	CalPERS 2017/...	631,942.00	X		1,005,446.87
07/06/2017	EFT	P. G. & E.	-split-	Jun-17	14.56	X		1,005,432.31
07/06/2017	EFT	ADP (FSA)	-split-		327.04	X		1,005,105.27
07/06/2017	20517	7th Dimension, LLC	-split-	Invoice # Q-17...	3,960.00	X		1,001,145.27
07/06/2017	20518	A-CHECK	2029 · Other Payable	Inv # 59-05171...	10.00	X		1,001,135.27
07/06/2017	20519	Absolute Secured Sh...	2029 · Other Payable	Inv # 37404	40.00	X		1,001,095.27
07/06/2017	20520	Aflac	2029 · Other Payable	Inv # 981236	209.44	X		1,000,885.83
07/06/2017	20521	APPTIX Inc.	-split-	Invoice # INV0...	1,108.16	X		999,777.67
07/06/2017	20522	Aramark	6120 · Housekeeping	Customer # 79...	74.92			999,702.75
07/06/2017	20523	AT&T	-split-	Jun-17	283.62	X		999,419.13
07/06/2017	20524	Bugman Pest Control	2029 · Other Payable	Invoice # JUN0...	90.00	X		999,329.13
07/06/2017	20525	Burkett's	-split-	Invoice # 1329...	227.45	X		999,101.68
07/06/2017	20526	Capital Building Mai...	2029 · Other Payable	Invoice # 9319	279.61	X		998,822.07
07/06/2017	20527	CA Assoc. of Profess...	6000 · Wages & Benef...	JULY 2017	1,323.00	X		997,499.07
07/06/2017	20528	CalPERS (OPEB Pre...	6000 · Wages & Benef...		300,000.00	X		697,499.07
07/06/2017	20529	Caltronics Business ...	2029 · Other Payable	Inv # 2290868	190.91	X		697,308.16
07/06/2017	20530	Doug Veerkamp	-split-		4,722.90	X		692,585.26
07/06/2017	20531	East Bay Tire Co.	2029 · Other Payable	Invoice # 1357...	222.28	X		692,362.98
07/06/2017	20532	El Dorado County A...	6200 · Professional Ser...	2017/2018 LA...	11,314.86	X		681,048.12
07/06/2017	20533	Excel Painting and St...	-split-		1,488.00	X		679,560.12
07/06/2017	20534	FedEx	2029 · Other Payable	Invoice # 5-85...	25.26	X		679,534.86
07/06/2017	20535	Ferrell Gas	2029 · Other Payable	Invoice # 1096...	509.39	X		679,025.47
07/06/2017	20536	FlexManage	-split-	Invoice # 1480...	5,440.00	X		673,585.47
07/06/2017	20537	Folsom Diesel Work...	2029 · Other Payable	Invoice # 2488	3,501.86	X		670,083.61
07/06/2017	20538	InterState Oil Compa...	2029 · Other Payable		557.07	X		669,526.54
07/06/2017	20539	Kronos	2029 · Other Payable	Invoice # 1119...	610.00	X		668,916.54
07/06/2017	20540	Managed Health Net...	6200 · Professional Ser...	Invoice # PRM...	651.24	X		668,265.30

El Dorado Hills Fire Department

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Register: 1000 · Bank of America

From 07/01/2017 through 07/31/2017

Sorted by: Date, Type, Number/Ref

Date	Number	Payee	Account	Memo	Payment	C	Deposit	Balance
07/06/2017	20541	Mountain Democrat	-split-	Invoice # 158	64.00	X		668,201.30
07/06/2017	20542	U.S. Bank PARS Ac...	6560 · Pension/OPEB ...		250,000.00	X		418,201.30
07/06/2017	20543	Public Retirement Jo...	6170 · Dues and Subsc...	Invoice # 7057	250.00	X		417,951.30
07/06/2017	20544	SignChef Inc.	2029 · Other Payable	Invoice # 243...	93.99	X		417,857.31
07/06/2017	20545	Suds Car Wash, Inc.	2029 · Other Payable	Jun-17	17.08	X		417,840.23
07/06/2017	20546	Supplyworks	-split-	Invoice # 4049...	2,108.61	X		415,731.62
07/06/2017	20547	TargetSolutions Lear...	6210 · Information Tec...	Invoice # INV0...	6,431.00	X		409,300.62
07/06/2017	20548	Tri-Signal Integratio...	2029 · Other Payable	Invoice # C104...	300.00	X		409,000.62
07/06/2017	20549	West Coast Frame/C...	2029 · Other Payable	Invoice # 48740	5,295.00	X		403,705.62
07/06/2017	20550	Greg F. Durante (Di...	-split-	Jun-17	315.00	X		403,390.62
07/06/2017	20551	Charles J. Hartley	-split-	Jun-17	420.00	X		402,970.62
07/06/2017	20552	John Giraudo	-split-	Jun-17	420.00	X		402,550.62
07/06/2017	20553	Douglas A. Hus	-split-	Jun-17	315.00	X		402,235.62
07/06/2017	20554	Barbara Winn	-split-	Jun-17	420.00	X		401,815.62
07/06/2017	20555	Connie Bair	-split-		150.00	X		401,665.62
07/06/2017	20556	Brian Bresnahan	-split-		150.00			401,515.62
07/06/2017	20557	Carol Caughey	-split-		150.00	X		401,365.62
07/06/2017	20558	David Kennedy	-split-		100.00	X		401,265.62
07/06/2017	20559	John Niehues	-split-		150.00	X		401,115.62
07/06/2017	20560	Dwight Piper	-split-		150.00	X		400,965.62
07/06/2017	20561	Frederick Russell	-split-		150.00	X		400,815.62
07/06/2017	20562	Angelica Silveira	-split-		150.00	X		400,665.62
07/06/2017	20563	Sean Ward	-split-		150.00			400,515.62
07/06/2017	20564	Chase Bank	2029 · Other Payable	Jun 8, 22	400.00	X		400,115.62
07/06/2017	20565	Wells Fargo Bank	2026 · EDH Associate...	Deposit to Acct...	4,430.40	X		395,685.22
07/06/2017	PR17-7-1		-split-	Total Payroll T...	74,369.17	X		321,316.05
07/06/2017	PR17-7-1		1000 · Bank of Americ...	Direct Deposit	232,863.62	X		88,452.43
07/06/2017	PR17-7-1		1000 · Bank of Americ...	Payroll Checks...	2,096.42	X		86,356.01
07/07/2017	EFT	P. G. & E.	-split-	Jun-17	10.51	X		86,345.50
07/10/2017	EFT	P. G. & E.	-split-	Jun-17	4,756.06	X		81,589.44
07/11/2017		Transfer from Paypal	1010 · Paypal	Deposit		X	1,695.47	83,284.91
07/11/2017	EFT	ADP (FSA)	-split-		41.67	X		83,243.24
07/12/2017	EFT	ADP (FSA)	-split-		517.34	X		82,725.90
07/13/2017	EFT	P. G. & E.	-split-	Jun-17	132.74	X		82,593.16
07/13/2017	EFT	ADP (FSA)	-split-		55.27	X		82,537.89
07/14/2017	EFT	ADP	6200 · Professional Ser...	PR17-7-1	317.87	X		82,220.02
07/15/2017			6200 · Professional Ser...	Service Charge	214.02	X		82,006.00
07/15/2017	EFT	Verizon Wireless	-split-	Jun-17	2,287.45	X		79,718.55
07/17/2017	EFT	P. G. & E.	-split-	Jun-17	89.42	X		79,629.13
07/18/2017		Transfer from LAIF	1074 · Local Agency I...	Confirm #1505...		X	500,000.00	579,629.13

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Sorted by: Date, Type, Number/Ref

Date	Number	Payee	Account	Memo	Payment	C	Deposit	Balance
07/18/2017	EFT	Board of Equalizatio...	2029 · Other Payable	Account Numb...	225.00	X		579,404.13
07/18/2017	EFT	Employment Develo...	-split-	Account ID# 7...	1,358.98	X		578,045.15
07/19/2017	EFT	State Board of Equali...	-split-	Q2 2017	527.84	X		577,517.31
07/19/2017	EFT	P.E.R.S. Health	-split-	Aug-17	164,941.04	X		412,576.27
07/19/2017	EFT	P.E.R.S. Retirement	-split-	PR17-7-2	86,390.52	X		326,185.75
07/19/2017	EFT	P.E.R.S. ING	-split-	PR17-7-2	2,774.44	X		323,411.31
07/19/2017	EFT	ADP (FSA)	-split-		65.50	X		323,345.81
07/20/2017	EFT	Nationwide Retireme...	-split-	PR17-7-2	20,059.57	X		303,286.24
07/20/2017	EFT	ADP (FSA)	-split-		23.77	X		303,262.47
07/20/2017	20566	7th Dimension, LLC	6210 · Information Tec...	Inv# 170499	268.81	X		302,993.66
07/20/2017	20567	Aramark	6120 · Housekeeping	Inv# 635428824	74.92			302,918.74
07/20/2017	20568	Benuto Tree Service	3505 · Misc. Revenue, ...	Inv# 00100	7,300.00	X		295,618.74
07/20/2017	20569	Best Best & Krieger	2029 · Other Payable	Inv# 799368	13,283.12	X		282,335.62
07/20/2017	20570	Betz Landscaping, Inc	3505 · Misc. Revenue, ...	2017 Weed Ab...	9,125.00			273,210.62
07/20/2017	20571	Big O Tires	6140 · Maintenance of ...	Invoice # 126867	52.37	X		273,158.25
07/20/2017	20572	Bugman Pest Control	-split-	Inv : MAY019...	261.50	X		272,896.75
07/20/2017	20573	Burkett's	-split-	Inv # 1330789-...	163.51	X		272,733.24
07/20/2017	20574	California Family Fit...	6200 · Professional Ser...	Inv # 19072017	174.98	X		272,558.26
07/20/2017	20575	Caltronics Business ...	6190 · Office Supplies	Inv # 2299480	182.71	X		272,375.55
07/20/2017	20576	Core Logic	6170 · Dues and Subsc...	Inv # 81813573	137.50	X		272,238.05
07/20/2017	20577	D Martel Plumbing	6150 · Maintenance,Str...	Inv # 94341-19...	2,340.00	X		269,898.05
07/20/2017	20578	EDC Air Quality Ma...	6140 · Maintenance of ...	Inv # IN0101262	666.97			269,231.08
07/20/2017	20579	Emergency Vehicle ...	6140 · Maintenance of ...	Inv # 113458	457.74	X		268,773.34
07/20/2017	20580	FedEx	6190 · Office Supplies	Inv # 5-865-04...	25.26	X		268,748.08
07/20/2017	20581	Folsom Diesel Work...	-split-		1,270.88	X		267,477.20
07/20/2017	20582	Hefner, Stark & Mar...	2029 · Other Payable	Inv # 355	7,066.28	X		260,410.92
07/20/2017	20583	InterState Oil Compa...	-split-		3,340.97	X		257,069.95
07/20/2017	20584	Lexipol, LLC	6200 · Professional Ser...	Inv # 21084	7,975.00	X		249,094.95
07/20/2017	20585	Mountain Democrat	6200 · Professional Ser...	Inv # 3699	45.00	X		249,049.95
07/20/2017	20586	Riverview Internatio...	6140 · Maintenance of ...	Inv # 934959	92.38	X		248,957.57
07/20/2017	20587	Rotary	-split-	July 2017	225.00	X		248,732.57
07/20/2017	20588	The Daily Dispatch	6200 · Professional Ser...	Inv # 2017-962	405.00	X		248,327.57
07/20/2017	20589	Ultimate Fire System...	-split-	Inv # 900,901,...	1,475.00	X		246,852.57
07/20/2017	20590	West Coast Restorati...	6150 · Maintenance,Str...	Inv # 14949	11,840.02	X		235,012.55
07/20/2017	PR17-7-2		-split-	Total Payroll T...	97,931.24	X		137,081.31
07/20/2017	PR17-7-2		1000 · Bank of Americ...	Direct Deposit	267,919.76	X		-130,838.45
07/20/2017	PR17-7-2		1000 · Bank of Americ...	Payroll Checks...		X		-130,838.45
07/21/2017	EFT	ADP (FSA Service C...	6200 · Professional Ser...	Jun-17	93.58	X		-130,932.03
07/21/2017	EFT	ADP (FSA)	-split-		559.97	X		-131,492.00
07/24/2017		Transfer from LAIF	1074 · Local Agency I...	Confirm #1506...		X	300,000.00	168,508.00

El Dorado Hills Fire Department

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07/24/2017	eft	ADP (FSA)	-split-		825.25	X		167,682.75
07/24/2017	EFT	Verizon Wireless	-split-	Jun-17	701.84	X		166,980.91
07/24/2017	EFT	P. G. & E.	-split-	Jun-17	242.39	X		166,738.52
07/27/2017		Deposit	-split-	Deposit		X	4,439.72	171,178.24
07/27/2017	EFT	Modular Space Corp...	-split-	7/25-8/24/17	563.06	X		170,615.18
07/28/2017	EFT	ADP	6200 · Professional Ser...	PR17-7-2	317.87	X		170,297.31

From: Vincent Sherman <vincesherman@gmail.com>

Date: August 7, 2017 at 4:31:29 PM PDT

To: Hartley.jim@att.net

Cc: barbara.winn@att.com, gdurante66@gmail.com, johngiraudocomcast.net, doughus61@gmail.com

Subject: Station 84 new roof

Dear Mr. Hartley,

The El Dorado County Building Permit office provided me with a list of recent roofs completed by Mountain Roofing Systems. I see that they replaced the roof on Station 84. They replaced a metal roof on my family's property and I have been spent years trying to get them to make the job right. Recently a CSLB investigator visited and noted 7 items in their work which do not conform to trade standards.

Most of these items are unique to the house the particular roof was put on, but some I suspect are present in much of the work performed by Mountain Roofing Systems. One example is the fact that they used an underlayment which is not approved for use under metal roofs, and (according to the manufacturer) will deteriorate under the heat of a metal roof. This can, among other things, eventually lead to roof leakage. The CLSB investigator has recommended that in order to fix this the entire roof be removed and replaced.

Additionally in my case, the ridge cap appears to not be installed properly, which may (and does appear to) lead to leaking in extreme conditions.

I was curious if you have experienced any issues with the new roof on station 84, and I wanted to recommend that you look into the materials used in your installation and ensure that the manufacturers specifications regarding materials and proper installation were adhered too in order to ensure the long-term durability of your roof. Additionally, I am now educated in some of the roofing requirements and if you need some assistance investigating (for example, whether or not the correct underlayment is applied) I would be happy to help you.

I have attached the report from the CSLB, if you wish to see more details.

Best Regards,

Vincent R. Sherman

PhD, Materials Science and Engineering

University of California, San Diego

[\(530\) 308-3842](tel:(530)308-3842)

vsherman@ucsd.edu



CONTRACTORS STATE LICENSE BOARD

9821 Business Park Drive, Sacramento, CA 95827
Mailing Address: P.O. Box 26000, Sacramento, CA 95826
(916) 255-3429
www.cslb.ca.gov

STATE OF CALIFORNIA
Edmund G. Brown Jr., Governor

July 26, 2017

RE: NA 2016-12438

As a party to the complaint referenced above, the Contractors State License Board is providing you copies of the following documents:

- 1. Items of Complaint and Findings by Expert**
- 2. Photo Identification of Complaint Item**

Please feel free to contact me at (916) [REDACTED] if you have questions.

Sincerely,

Bria [REDACTED]
Enforcement Representative
Sacramento North Investigations Unit

REPORT OF INSPECTION AND ESTIMATE

Report Date: 21July17 File No.: NA2016-12438

Project Name: Sherman

Project Address: [REDACTED] Rd SL Tahoe, CA

I, [REDACTED] of [REDACTED] Sacramento CA 95821
Expert Name Expert's Address of Record

was asked to submit this report on the project listed above.

On 13July17 at 11am, I personally inspected the
Date Time

Sherman project and found the work Reroof with metal panels
Project Owner/Assignee Name Description of Work Inspected

☐ Does ☒ Does Not meet accepted trade standards for goods & workman-like construction in the following respects. I personally took the attached photographs of said project on 13July17.
Date

I estimate the approximate cost to correct/complete the work listed above to be \$ 10,021.
Total Dollar Amount

including labor, materials, and services. I have personally performed and supervised 220 projects
Number
similar to Sherman project.
Project Name

I am currently a Licensed contractor in the field of B1
Licensed Contractor, Supervisor, Foremen, Journeyman, Etc. Field Classification

I have worked in this field for 39 years. While working in the field, my time was spent performing typical tasks as indicated.
Number

Task	Yes	No
Working with the tools of the trade	X	
Reading blueprints	X	
Estimating job costs	X	
Report of Inspection & Estimate	X	
Troubleshooting job-related problems	X	
Supervising work	X	
Continuing education (seminars & schools)	X	
Teaching others this trade	X	
Writing reports pertaining to construction problems	XX	
Testifying as industry expert		

I have prepared this report based on my knowledge, skill, experience, and training in the _____ classification field.

B1
Classification Title

Unless otherwise specified on any of the enclosed "Complaint Item Report" forms (13IEP7a), which is part of this report, I have used the following in establishing the cost to correct:

Basis Used to Establish Cost:	xxx	Time and Material
		Unit Cost
		Other (specify)
Calculated By:		Means Data
		Dodge Data Systems
		National Construction Estimator
		Martial Swift
		Software Program (identify)
		Other (identify)

As a designated Contractors State License Board industry expert, I agree not to use such status in any advertising or sales promotion. I agree that I will not enter into any contract to perform the completion or correction of any work which is a subject of this report. I also certify that I do not personally know the complainant or the respondent or his/her officers or employees. I certify under penalty of perjury under the laws of the State of California that all statements, answers, and representations in this report, including all attachments, are true and accurate.

Disclaimer

The cost to correct the work listed on the preceding page is based on the items of complaint addressed by this report as of this date. A correcting contractor's estimate to correct may vary from this amount and include other items not requested, by the Contractors State License Board, to be addressed by this report as of this date.

Respectfully submitted,



Signature

21 July 17

Date



916



Printed Name

License # and Phone #

ITEMS OF COMPLAINT and FINDINGS BY EXPERT 1

1. Item of complaint: Snow bars not installed correctly per manufacturer's specs.
2. My observations: Photo 1a shows the missing dormer and the water test hose snaking up the roof. To the left of the missing dormer are two remaining snow bars. Photo 1b is a close-up of the snowbars. The upper one has seriously twisted over as a result of a snow/ice load. Whether it was a static dead load of ice and snow or a dynamic load (ice and snow sliding down the slick metal roof and impacting the snow retention device) I cannot say. I was furnished with documentation that shows the product used was SnoBar Metal Roof Wind Guard System. The installation instructions state "If additional rows of SNOBAR System are needed on the roof areas (based on the Design Considerations) make sure to layout and space of the additional rows equally up to the roof slope. See figure2". This method was not employed by the roofer. The "Design Considerations" cited above further state "in instances where there is an overhang it is imperative to make sure that the overhang can hold the accumulated loading, otherwise, the first row of SNOBAR should occur at the bearing wall". Furthermore, para 2 goes on to say "It is not recommended the SNOBAR system be used in isolated areas such as doorways, vents and partial roof areas. PLEASE CALL FOR SPECIAL DESIGN CONSIDERATIONS IN THESE AREAS". The invoice for the order of the SNOBAR system by the contractor for the Sherman job, 18Jun16, has a bloc the contractor signed that declined the engineering that the SNOBAR company would provide. I was shown photos of the failed dormer lying in the snow and there were SNOBARS attached to the new metal roofing on the dormer. Photo 5f shows the condition of the dormer as the roofing contractor would have seen it at time of bid. There are no snow retention devices on the dormer. Additionally, it is tenuously supported by a cantilevered beam on beam system which was toe-nailed into the top face of the roofing 2x membrane. This also would have been visible as the dormer was open ended and not enclosed. I use the word 'tenuously' because that method of support would not be approved in any plans or inspections today or in the past. That whole system relies on a few nails between projecting beams and the roof decking and whatever nailing was used between the viewable plates the dormer rafters rested on. To assume that because this dormer hadn't yet fallen that any new roofing system and snow retention system would not cause it to fail would be short-sighted. The code has continually evolved for snow loaded roofs in the Sierras as long existing roofing systems collapse under unusual snow loads. The changes in the code cover size of rafters, decking, beam sizing, water

barriers,connectors. etc. METAL ROOFS ARE NOTORIOUS AND DEPENDABLE FOR SHEDDING LARGE QUANTITIES OF SNOW AND ICE ALL AT ONCE. Any roofer should know this It is not unusual for a re-roof to generate a building department requirement to have the whole roof engineered and checked. This is steep pitched roof designed to shed snow easily but is complicated by the non-existence of roof insulation. There is no attic space. The wood planking seen in photo 5a is the same planking seen in photo 6b. There was no insulation in the roof prior to re-roof and at least the re-roof provided some new insulation, though far short of the R-38-45 required in new construction. So the other condition that presented itself to the contractor at bid time was an uninsulated or potentially under insulated roof system with a cathedral ceiling where hot air rises and can cause ice damming anywhere on the slope of the roof, not just starting at the eave.

(Indicate your response to 3 and 4, listed below, by marking the appropriate box:)

3. Complaint item conforms to plans and specifications: N/A ☐ Yes ☐ No ☒
4. Complaint item meets accepted trade standards: Yes ☐ No ☒
5. Industry standard is: Comply with manufacturer's specs and recommendations.
6. Cause of defect: There are a number of factors that probably contributed to failure. The contractor failed to observe the precariousness of the dormer construction, failed to have an engineer check its integrity, failed to heed the recommendations of the SNOBAR manufacturer with regards to three points: 1. Don't load an overhang by installing our product without consulting us. 2. Consider distributing the static load by spacing SNOBARS spaced up the roof 3. Use our engineering/design services for unusual roof areas. The contractor failed to take into account the tendency of a metal roof to shed its load all at once under warming conditions, be those conditions from outside or from within the house via heating.

(Identify how the work of the complaint item fails to meet any industry standard(s) described above, or is otherwise deficient. Reference to any of the various building codes must be clearly specified.)

7. Method of correction: See complaint 6.
8. Cost to correct (this item only): See complaint 6

ITEMS OF COMPLAINT and FINDINGS BY EXPERT 2

1. Item of complaint: Owens Corning underlayment installed not appropriate for ASC specifications.

My observations: The Mountain Roofing Systems contract states in line #3 that the underlayment will be a high temperature underlayment. The patch of underlayment showing in photo 2 is a granulated barrier which appears to be Owens Corning Weatherlock G Granulated Ice and water Barrier. In the installation sheet for this product the following restriction is found: "**Precautions 1.** WeatherLock products should be installed by a professional roofing contractor. WeatherLock underlayment is designed to be covered by asphalt shingles, wood shakes or quarry slate roof assemblies. Protection from sunlight is required to assure its long-term performance". Metal roofing is significantly omitted. The product OwensCorning recommends for metal roofing is WeatherLock Specialty Tile and Metal Waterproof Barrier. It is specifically made for the high temperatures that will be encountered with metal roofing. I called their customer service and they stated this is the barrier recommended for metal and that other barriers will deteriorate under these ranges of temperature. I could not ascertain the degree of deterioration of the OC Granulated barrier, if any, from the small pieces poking out from underneath the metal roofing adjacent to the old dormer's location. But I was able to remove a sample for later identification. Whether potential unobservable deterioration contributed to the roof leaks addressed in complaint 5 I cannot say. But barrier degradation due to heat is not an overnight event but rather a longer term process. OC recommends that this and any barrier go over a vented roof, which this roof is not. That specification is a recognition that a vented roof is cooler and will contribute/extend to the life of a barrier.

(Indicate your response to 3 and 4, listed below, by marking the appropriate box:)

2. Complaint item conforms to plans and specifications: N/A ☐ Yes ☐ No ☒
3. Complaint item meets accepted trade standards: Yes ☐ No ☒
4. Industry standard is: Provide what is in the contract. Follow manufacturer's specifications.
5. Cause of defect: Contractor failed to use the type barrier specified in the contract,(a barrier compatible with a metal roof.....my words).
(Identify how the work of the complaint item fails to meet any industry standard(s) described above, or is otherwise deficient. Reference to any of the various building codes must be clearly specified.)
6. Method of correction: See complaint 6
7. Cost to correct (this item only): See complaint 6

ITEMS OF COMPLAINT and FINDINGS BY EXPERT 3

1. Item of complaint: End of roof panels do not have required screws.
2. My observations: Photos 1b, 3 & 4d show no screws along the bottom edge of the roof panels. The ASC installation guide for Skyline 16" roofing panels, Page 10, point 8 under Procedures for panels less than 40 ft, requires a line of screws along the bottom of edge of the roofing pans as further shown in figure #5 of the same page. Also I could not detect the use of 1/2" butyl tape under pan edge when viewing the roof as seen in photo 3. This is required in the installation manual under Eave and Vented eave Flashings, diagram on page 16.

(Indicate your response to 3 and 4, listed below, by marking the appropriate box:)

3. Complaint item conforms to plans and specifications: N/A ☐ Yes ☐ No ☒
4. Complaint item meets accepted trade standards: Yes ☐ No ☒
5. Industry standard is: Follow manufacturer's specs.
6. Cause of defect: Contractor failed to install screws and butyl tape at end of panels at eave as required in the installation manual.
(Identify how the work of the complaint item fails to meet any industry standard(s) described above, or is otherwise deficient. Reference to any of the various building codes must be clearly specified.)
7. Method of correction: See complaint 6
8. Cost to correct (this item only): See complaint 6

ITEMS OF COMPLAINT and FINDINGS BY EXPERT 4

1. Item of complaint: Paint on ice and snow splitters has peeled.
2. My observations: Photos 4a-d show splitters whose finished has nearly disappeared. Also paint on the vent boots has crumbled. These boots are some form of rubber and highly susceptible to UV degradation, a serious issue at higher elevations.
(Indicate your response to 3 and 4, listed below, by marking the appropriate box:)
3. Complaint item conforms to plans and specifications: N/A ☐ Yes ☐ No ☒
4. Complaint item meets accepted trade standards: Yes ☐ No ☒
5. Industry standard is: If non-manufacturer flashings (splitters in this case) are used it is general practice to paint them to match the roof. The paint used must be of a type that is made to attach to metal and withstand high temperatures. Although not required by code as far as I can determine, it is also good practice to coat rubber boots against UV degradation. It is also the reason behind the code requirement to paint all protruding ABS vent pipes.
6. Cause of defect: Contractor failed to apply the correct paint to splitters.
(Identify how the work of the complaint item fails to meet any industry standard(s) described above, or is otherwise deficient. Reference to any of the various building codes must be clearly specified.)
7. Method of correction: Scrape off remaining paint and repaint splitters and boots with paint made for metal coating.
8. Cost to correct (this item only): \$280

ITEMS OF COMPLAINT and FINDINGS BY EXPERT 5

1. Item of complaint: Roof leaks per hose test.
2. My observations: The roof leaked at the peak where the test hose was placed as seen in photo 5e. Photo 5a shows the water streaks on the underside of the interior roof decking. The leak test only caused leaking when water was applied to the ridge. Photos 5b-d show ridge cap flashing attachment on the roof as well as chimney cricket. I could not see any upturned edge of the roofing pan top edge as required in installation manual, Hip and Ridge Flashing. This would be a less desirable alternate to using ASC's polyethylene closure set and caulking, which I was not able to observe (if it exists I wouldn't be able to see it without ridge cap removal). The contractor ordered and uses a venting ridge cap for a roof that has no venting membrane. Wind driven rain can easily be blown up under any ridge cap regardless of pitch. Also one would expect the water resistant barrier to wrap over the ridge and lap over the WRB of the roof that lies directly under the roofing. Obviously this ridge wrap was non-existent or somehow compromised. The dilemma a roofer faces on an old structure is that in placing water and ice shield on the roof decking there is then a vapor proof system that causes moisture from sources within the house to condense on the underside of the barrier and drip back into the roof decking and house. This is why it is so essential to have a ventilated cavity from eave to ridge and a porous polyethylene sandwich between roof pans and ridge cap that can vent air but stop wind driven rain. It is not necessarily wind-driven rain that can penetrate the ridge flashing. In cathedral ceiled roofs that have no or marginal insulation, ice damming can occur anywhere along the roof pan. And highest melting/freezing activity occurs at the point of greatest interior heat accumulation, which in the case of a cathedral ceiling, would be at the peak.

(Indicate your response to 3 and 4, listed below, by marking the appropriate box:)

3. Complaint item conforms to plans and specifications: N/A ☐ Yes ☐ No ☒
4. Complaint item meets accepted trade standards: Yes ☐ No ☒

5. Industry standard is: Ridge gets wrapped with WRB. Follow manufacturer's specifications for installation and waterproofing measures.

6. Cause of defect: Unsure.
(Identify how the work of the complaint item fails to meet any industry standard(s) described above, or is otherwise deficient. Reference to any of the various building codes must be clearly specified.)

7. Method of correction: See complaint 6
8. Cost to correct (this item only): See complaint 6

ITEMS OF COMPLAINT and FINDINGS BY EXPERT 6

1. Item of complaint: Detached dormer is not replaced.
2. My observations: Photo 6 and 1a show the dormer is gone. I would not frame the new dormer in the same manner as the original. If it projects as far from the eave as the original it needs additional support provided by either angled 4x4 braces back to the siding or 4x4 posts to ground. As I have stated in complaint 1, this dormer's failure likely would have been preventable had the contractor not loaded it with snow retaining SNOBARs, had taken advantage of the SNOBAR engineering option, and had recognized the danger that a new metal roof might impose on the dormer by dynamic loading (melting slabs of ice and snow sliding off the roof). Had SNOBARs been used above the dormer in a manner recommended by SNOBAR literature this would have also prevented large sliding masses of snow and ice. I believe the contractor thought that the steep pitch alone would take care of ridge sealing as well as snow buildup, but just the opposite happened. And any cursory examination of the original dormer would have alerted most contractors to the probable precarious attachment and support that did exist with the original dormer.

(Indicate your response to 3 and 4, listed below, by marking the appropriate box:)

3. Complaint item conforms to plans and specifications: N/A ☐ Yes ☐ No ☒
4. Complaint item meets accepted trade standards: Yes ☐ No ☒
5. Industry standard is: Replaced what is damaged by construction activities. Follow manufacturers' specifications.
6. Cause of defect: Contractor failed to replace dormer.
(Identify how the work of the complaint item fails to meet any industry standard(s) described above, or is otherwise deficient. Reference to any of the various building codes must be clearly specified.)
7. Method of correction: I think the entire roof needs to be disassembled and re-attached. This is because the wrong WRB was used and the owner now has no warranty for leakage. Furthermore, the ridge cap flashing is done incorrectly because it leaks and because I cannot observe the upturned edge required in lieu of the use of a polyethylene gasket and caulking required by the roof manufacturer. Also screws will need to be attached to pan bottoms along the eaves along with 1/2" wide butyl tape. The SNOBARs should not be attached to the dormer but there should be three sets of SNOBARs above the dormer, as further determined by SNOBAR engineering. I am assuming that with careful removal all of the existing roofing metal can be re-used, with the possible exception of the bent pan/s

to the left of the dormer location. The dormer would need to be framed differently for sufficient support and I think that extra cost would have been borne by the owner had the problem been identified at the time of bid. So would the cost of additional SNOBARS.

8. Cost to correct (this item only): Original contract minus reusable roofing and SIP panels, screws and the labor to install those panel.....added to which is the additional labor to tear off:

Total\$9281

ITEMS OF COMPLAINT and FINDINGS BY EXPERT 7

1. Item of complaint: Deck and railing damage from dormer is not repaired.
 2. My observations: Photos 7a, b show the original railing system still ascending the steps but the damaged railing has temporarily been replaced with a metal railing.
(Indicate your response to 3 and 4, listed below, by marking the appropriate box:)
 3. Complaint item conforms to plans and specifications: N/A ☒ Yes ☐ No ☐
 4. Complaint item meets accepted trade standards: Yes ☐ No ☒
 5. Industry standard is: Repair owner's property damaged by construction activity or subsequent product failure.
 6. Cause of defect: Contractor failed to replace and repair deck railing that was destroyed by fallen dormer.
(Identify how the work of the complaint item fails to meet any industry standard(s) described above, or is otherwise deficient. Reference to any of the various building codes must be clearly specified.)
 7. Method of correction: Replace metal railing with redwood/cedar/PT wood system similar to stairs.
Prime and paint.
 8. Cost to correct (this item only): \$460
-

PHOTO 1a



Date Photograph Taken:	13July17
Description: . View of missing dormer. Two remaining Sno-Bars to left of dormer still attached to roof.. Hose on roof attached to a sprinkler that demonstrated leakage at the ridge which could be viewed from the inside roof underside in short time.	

PHOTO 1b



Date Photograph Taken:	13July17
Description: . Remaining Sno-Bars. Top bar has rolled over as a result of snow load.	

PHOTO 2



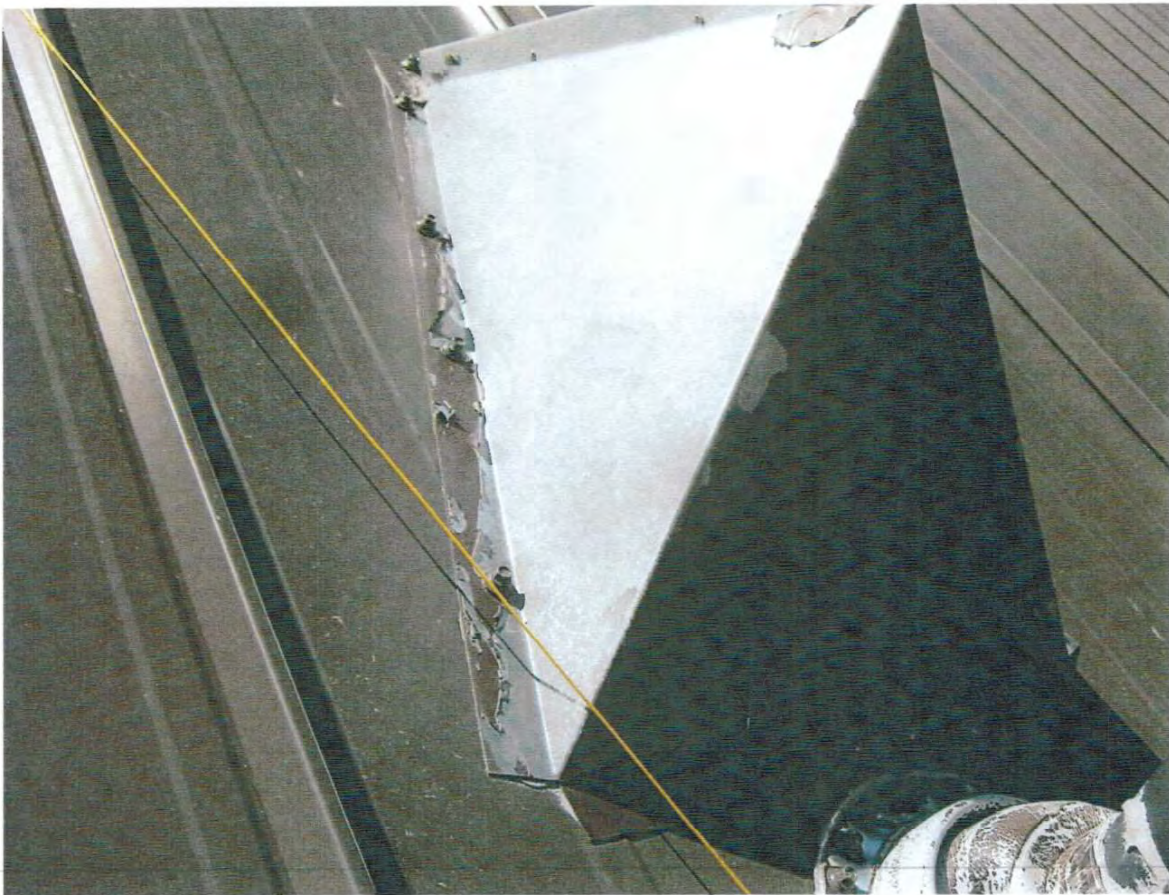
Date Photograph Taken:	13July17
Description: . View of the exposed roof deck where dormer existed. New insulated panel is attached with required screws (large black screw) and Owens Corning Weatherlock Granulated Ice and Water Barrier has been used as an underlayment. It is the black patch lying between the metal roof and the insulated panel.	

PHOTO 3



Date Photograph Taken:	13July17
Description: . View at eave to left of missing dormer. The two pans have been slightly bent by the dormer failure. There are no screws attached to the pans at their bottom, a condition found along the entire perimeter.	

PHOTO 4a



Date Photograph Taken:	13July17
Description: . A snow “splitter” was finished with some sort of color matching paint by the contractor that has completely deteriorated.	

PHOTO 4b



Date Photograph Taken:	13July17
Description: . Paint on new boot has completely failed	

PHOTO 4c



Date Photograph Taken:	13July17
Description: . Three more splitters with failed paint coating.	

PHOTO 4d



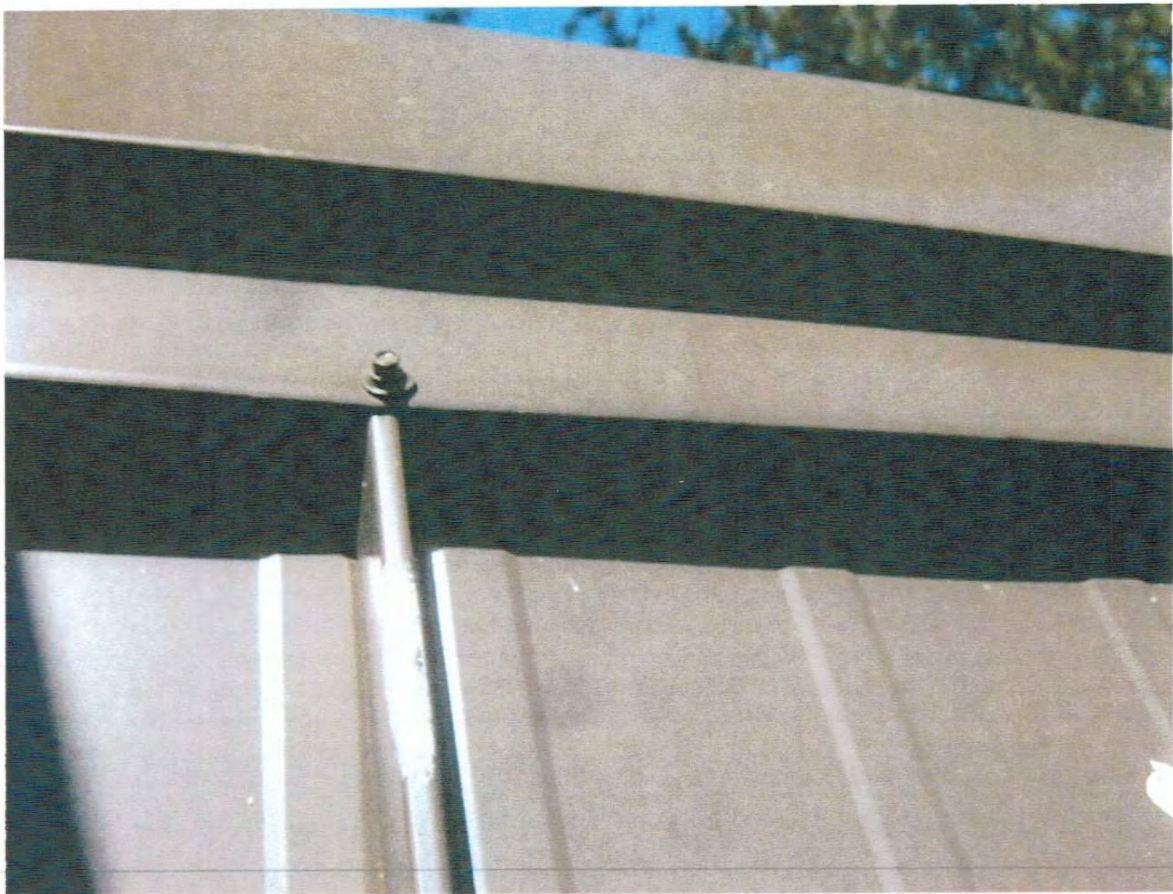
Date Photograph Taken:	13July17
Description: . Remaining splitter with failed paint coating.	

PHOTO 5a



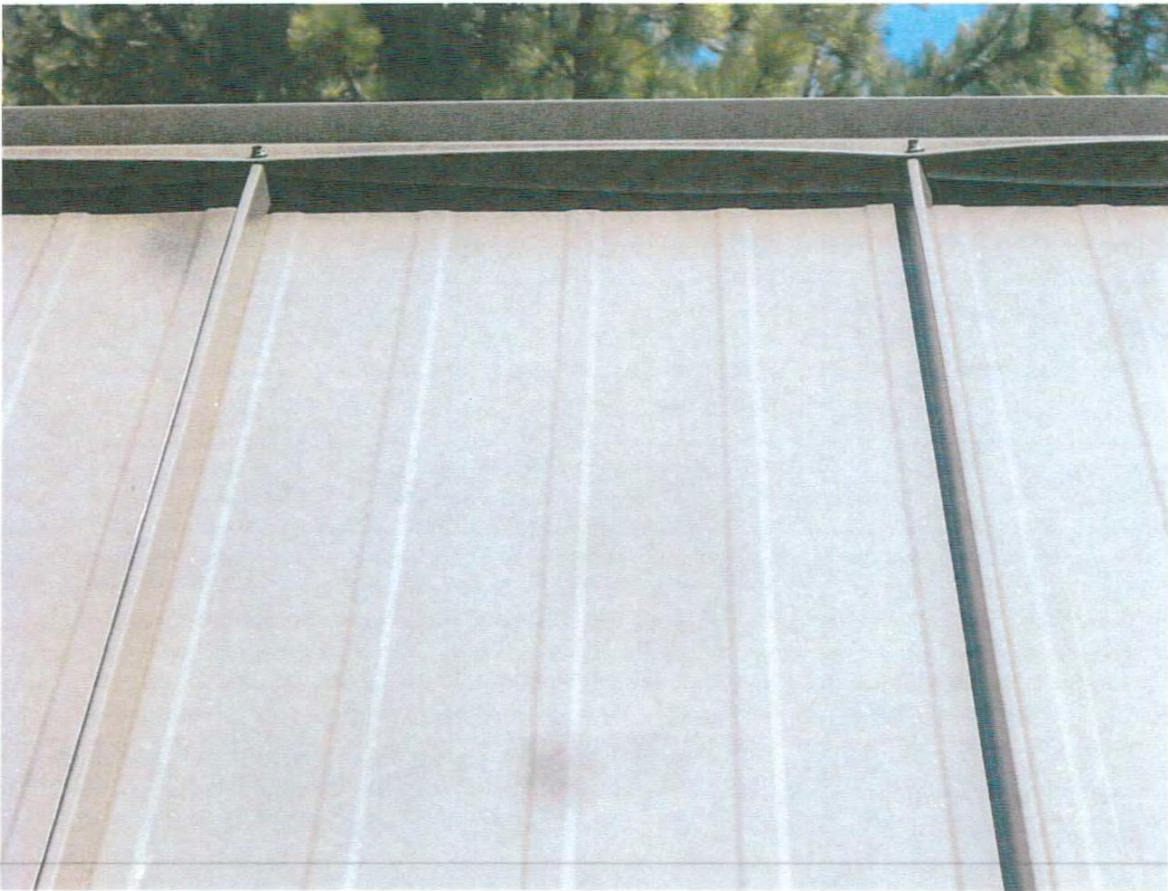
Date Photograph Taken:	13July17
Description: . Interior view of the roof decking that shows streaking from water. This is deirectly beneath the sprinkler at the ridge shown in photo 1a.	

PHOTO 5b



Date Photograph Taken:	13July17
Description: . Closeup of the ridge cap on top of the chimney cricket. This was installed in the same manner as the roof ridge cap. There was no polyethylene gasket used between ridge cap and roof pans. I could not observe that the top edges of the pans had been bent upright as recommended by the roofing manufacturer.	

PHOTO 5c



Date Photograph Taken:	13July17
Description: . View of the intersection of the roof pans and the ridgecap.	

PHOTO 5d



Date Photograph Taken:	13July17
Description: . Another view of the ridge cap. I could not observe any product used to seal overlap.	

PHOTO 5e



Date Photograph Taken:	13July17
Description: , Closeup of the positioning of the leak test that caused the water to be seen inside the structure.	

PHOTO 5f



Date Photograph Taken:	13 July 17
Description: . Condition of dormer prior to re-roof. Note the dormer is cantilevered out past the eave with no post supports.	

PHOTO 6



Date Photograph Taken:	13July17
Description: . The outline of the plate for the open faced dormer can be seen as the light stripe on the roof decking. The decking is 2x6 T&G and the dormer plate was nailed into the decking. I could find very few nail holes that would have indicated how well the dormer was attached to the roof.	

PHOTO 7



Date Photograph Taken:	13July17
Description: . The porch railing has been temporarily replaced with a black metal railing system. The original wood system was done in the manner of the stairs. Wood painted white.	