



Full Facility Roof Report

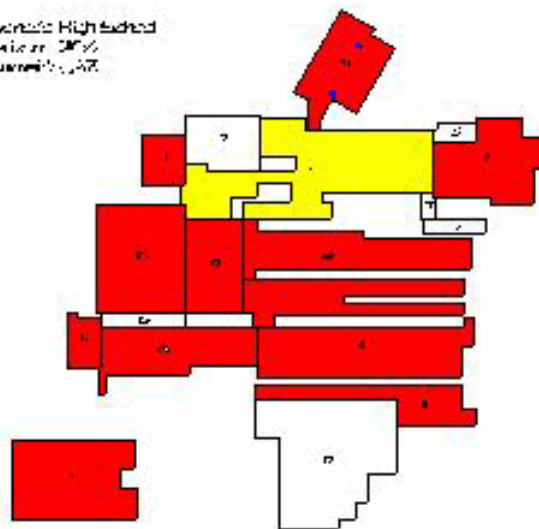
Prepared for:

Wesley Begay
Ganado High School
Highway 264
Burnside, Arizona
86505

Prepared by:

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WRECORP
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Ganado High School
June 20, 2013
Peoria, AZ



Ganado High School

Date : May 01, 2013

Facility: Ganado High School
Highway 264

Burnside
Arizona
86505
U.S.A.

Contact Name: Wesley Begay

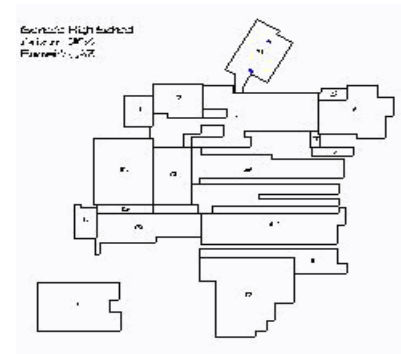
Contact Telephone: (928) 755-1071 Ext:

Contact Fax: (928) 755-1072

Date of Last Inspection: Apr 23, 2013

Type of building: School

Type of Neighborhood: Rural



Facility Notes

Ganado High School

The existing roof systems have been installed at varying times over the years. The original roof system appears to be a BUR system that was installed over a perlite taper insulation system attached to a composite perlite/polyisocyanurate board that was mechanically attached to a metal deck.

The BUR roof system was left in place and a single ply PVC system was installed over the BUR system utilizing a polyisocyanurate insulation board as a separator between systems. The polyisocyanurate board was mechanically attached through the BUR/insulation system using screws and plates. The PVC system was fully adhered to the polyisocyanurate insulation board with an adhesive.

The PVC system has sustained hail damage resulting in fractures through the system resulting in moisture entry into the school structure. The school has reported 541 separate and individual leaks at the ceiling tiles within the building.

Due to the damage to the PVC roof system along with the type of insulation (perlite) it is recommended that the entire roof system be torn off down to the metal deck and install a new roof system which will include a new taper system design.

Due to the extreme climate conditions in the Ganado area it is recommended that an 80 mil TPO fully adhered system is designed for roof replacement. The following are the climatic conditions that warrant the use of the recommended system.

6,000 ft elevation

Average snow fall per storm 6"

Winds at 65 mph sustained

Winter average low temperature below freezing

Ice build up on the roof during the winter is common

Summer average temperatures 90 degrees with periods over 100 degrees

Roof Section List

Photo	Section / Name / Year Installed	Size / Height	Roof Type	Condition Index/ *RCI/ ASLR(Yrs)	Estimated Replacement Value
	01 1 1993	2,089 sq. ft. 0 ft.	Polyvinyl-Chloride Roofing (PVC)	Poor 33 0(Yrs)	\$35,513.00
	03 3 1997	6,181 sq. ft. 0 ft.	Polyvinyl-Chloride Roofing (PVC)	Poor 33 0(Yrs)	\$105,077.00
	04 4 2007	15,890 sq. ft. 0 ft.	Polyvinyl-Chloride Roofing (PVC)	Good 86 9(Yrs)	\$270,130.00

Roof Section List Continued...

Photo	Section / Name / Year Installed	Size / Height	Roof Type	Condition Index/ *RCI/ ASLR(Yrs)	Estimated Replacement Value
	06 6 1993	7,563 sq. ft. 0 ft.	Polyvinyl-Chloride Roofing (PVC)	Poor 33 0(Yrs)	\$128,571.00
	09 - E 9 - E 1993	8,184 sq. ft. 0 ft.	Polyvinyl-Chloride Roofing (PVC)	Poor 33 0(Yrs)	\$139,128.00
	09 - W 9 - W 1993	8,184 sq. ft. 0 ft.	Polyvinyl-Chloride Roofing (PVC)	Poor 33 0(Yrs)	\$139,128.00

Roof Section List Continued...

Photo	Section / Name / Year Installed	Size / Height	Roof Type	Condition Index/ *RCI/ ASLR(Yrs)	Estimated Replacement Value
	10 10 1993	10,710 sq. ft. 0 ft.	Polyvinyl-Chloride Roofing (PVC)	Poor 33 0(Yrs)	\$182,070.00
	11 11 1993	4,984 sq. ft. 0 ft.	Polyvinyl-Chloride Roofing (PVC)	Poor 33 0(Yrs)	\$84,728.00
	13 13 1993	7,345 sq. ft. 0 ft.	Polyvinyl-Chloride Roofing (PVC)	Poor 33 0(Yrs)	\$124,865.00

Roof Section List Continued...

Photo	Section / Name / Year Installed	Size / Height	Roof Type	Condition Index/ *RCI/ ASLR(Yrs)	Estimated Replacement Value
	14 14 1993	1,843 sq. ft. 0 ft.	Polyvinyl-Chloride Roofing (PVC)	Poor 40 1(Yrs)	\$31,331.00
	16 16 1993	9,692 sq. ft. 0 ft.	Polyvinyl-Chloride Roofing (PVC)	Poor 33 0(Yrs)	\$164,764.00
	17 17 1993	5,468 sq. ft. 0 ft.	Polyvinyl-Chloride Roofing (PVC)	Poor 33 0(Yrs)	\$92,956.00

Roof Section List Continued...

Photo	Section / Name / Year Installed	Size / Height	Roof Type	Condition Index/ *RCI/ ASLR(Yrs)	Estimated Replacement Value
	18 18 1998	6,181 sq. ft. 0 ft.	Ethylene-Propyl ene-Diene-Mono mer Roofing (EPDM)	Poor 33 1(Yrs)	\$105,077.00
94,314					\$1,603,338.00
*RCI Rating 0 -100 where 100 is excellent					

Recommendation Summary

Section ID	Budget Year	Activity Type	Action Item ?	Allocation	Urgency	Budget Amount
01	2013	Replacement	Yes	Insurance	High	\$35,513
03	2013	Replacement	Yes	Insurance	High	\$105,077
04	2013	Replacement	Yes	Warrantied	High	\$1,200
06	2013	Replacement	Yes	Insurance	High	\$128,571
09 - E	2013	Replacement	Yes	Insurance	High	\$139,128
09 - W	2013	Replacement	Yes	Insurance	High	\$139,128
10	2013	Replacement	Yes	Insurance	High	\$182,070
11	2013	Replacement	Yes	Insurance	High	\$84,728
13	2013	Replacement	Yes	Insurance	High	\$124,865
14	2013	Replacement	Yes	Insurance	High	\$31,331
16	2013	Replacement	Yes	Insurance	High	\$164,764
17	2013	Replacement	Yes	Insurance	High	\$92,956
18	2013	Replacement	Yes	Capital	High	\$105,077
						\$1,334,408

Roof Name: 1

Roof Size: 2,089 sq. ft.

Est. replacement Cost: \$35,513.00

Existing System Type: Polyvinyl-Chloride Roofing (PVC)

Year Installed: 1993

Assessed Service Life
Remaining (Years) : 0

Height: 0 Ft.

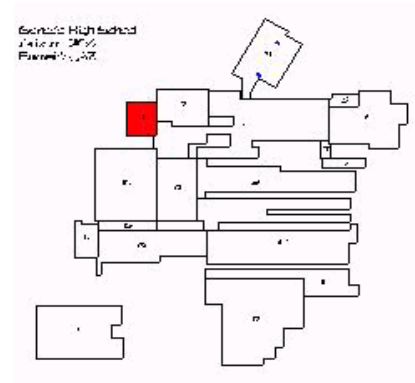
Slope:

Interior Sensitivity:

Drainage: Adequate

Currently Leaking? Yes

History of Leaking? Yes

Drainage and Leak
Details: Hail damage visible.

Overall Roof Inspection Assessments

Date	Inspection Type	Inspecting Company	Inspector
Apr 23, 2013	Visual Inspection	WRECORP	Jerry Brown

Unmaintainable Roof - Hail Damage

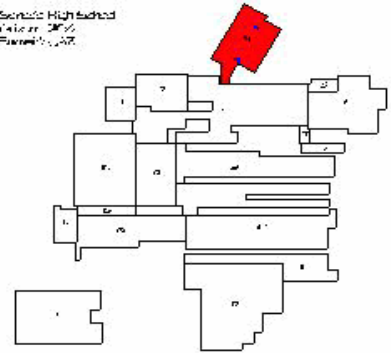
Based upon the known roof history, roof construction, and current roof condition, this roof area should only be considered for complete roof replacement of all components from the deck up.

Recommendations Details

Budget Year	Activity Type	Action Item ?	Allocation	Urgency	Quotation \$
2013	Replacement	Yes	Insurance	High	\$35,513
<u>Complete Replacement</u> We recommend complete roof replacement: Remove all roofing materials down to the deck. Install new roof system. <i>Due to extreme climate conditions th new roof system should be 80 mil white TPO fully adhered over HD board with insulated taper roof system.</i>					\$35,513

Roof Name: 3**Roof Size:** 6,181 sq. ft.**Est. replacement Cost:** \$105,077.00**Existing System Type:** Polyvinyl-Chloride Roofing (PVC)**Year Installed:** 1997**Assessed Service Life
Remaining (Years) :** 0**Height:** 0 Ft.**Slope:****Interior Sensitivity:****Drainage:** Adequate**Currently Leaking?** Yes**History of Leaking?** Yes**Drainage and Leak
Details:** Hail damage visible.

Ganado High School
Roof - 03
Roof - 03



Overall Roof Inspection Assessments

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Apr 23, 2013	Visual Inspection	WRECORP	Jerry Brown

Unmaintainable Roof - Hail Damage

Based upon the known roof history, roof construction, and current roof condition, this roof area should only be considered for complete roof replacement of all components from the deck up.

Recommendations Details

Budget Year	Activity Type	Action Item ?	Allocation	Urgency	Quotation \$
2013	Replacement	Yes	Insurance	High	\$105,077
<u>Complete Replacement</u> We recommend complete roof replacement: Remove all roofing materials down to the deck. Install new roof system. <i>Due to extreme climate conditions th new roof system should be 80 mil white TPO fully adhered over HD board with insulated taper roof system.</i>					\$105,077

Roof Name: 4

Roof Size: 15,890 sq. ft.

Est. replacement Cost: \$270,130.00

Existing System Type: Polyvinyl-Chloride Roofing (PVC)

Year Installed: 2007

Assessed Service Life Remaining (Years) : 9

Height: 0 Ft.

Slope:

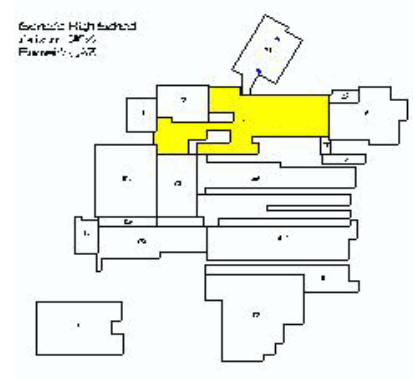
Interior Sensitivity:

Drainage: Adequate

Currently Leaking? Yes

History of Leaking? Yes

Drainage and Leak Details: Cut membrane appears to be from original installer.



Overall Roof Inspection Assessments

Date	Inspection Type	Inspecting Company	Inspector
Apr 23, 2013	Visual Inspection	WRECORP	Jerry Brown
<u>Maintainable Roof with Repairs - Third Party Damage</u> This roof has approximately 30 lineal feet of cuts in the membrane that can be repaired.			

Recommendations Details

Budget Year	Activity Type	Action Item ?	Allocation	Urgency	Quotation \$
2013	Replacement	Yes	Warrantied	High	\$1,200
<u>Repairs / Maintenance</u> We recommend the following roof repairs and maintenance: <i>Patch the cuts in roofing system with like material welded to surface.</i> Clean the roof of all debris. Clean the drains and verify that they are clear.					
					\$1,200

Roof Name: 6

Roof Size: 7,563 sq. ft.

Est. replacement Cost: \$128,571.00

Existing System Type: Polyvinyl-Chloride Roofing (PVC)

Year Installed: 1993

**Assessed Service Life
Remaining (Years) :** 0

Height: 0 Ft.

Slope:

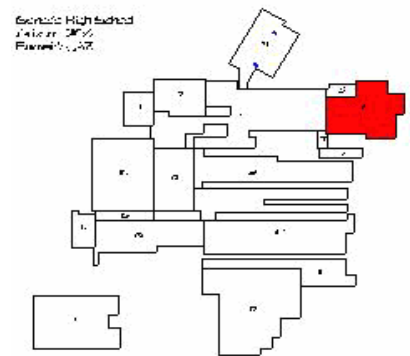
Interior Sensitivity:

Drainage: Adequate

Currently Leaking? Yes

History of Leaking? Yes

**Drainage and Leak
Details:** Hail damage visible.



Overall Roof Inspection Assessments

Date	Inspection Type	Inspecting Company	Inspector
Apr 23, 2013	Visual Inspection	WRECORP	Jerry Brown

Unmaintainable Roof - Hail Damage

Based upon the known roof history, roof construction, and current roof condition, this roof area should only be considered for complete roof replacement of all components from the deck up.

Recommendations Details

Budget Year	Activity Type	Action Item ?	Allocation	Urgency	Quotation \$
2013	Replacement	Yes	Insurance	High	\$128,571
<u>Complete Replacement</u> We recommend complete roof replacement: Remove all roofing materials down to the deck. Install new roof system. <i>Due to extreme climate conditions th new roof system should be 80 mil white TPO fully adhered over HD board with insulated taper roof system.</i>					
					\$128,571

Roof Name: 9 - E

Roof Size: 8,184 sq. ft.

Est. replacement Cost: \$139,128.00

Existing System Type: Polyvinyl-Chloride Roofing (PVC)

Year Installed: 1993

Assessed Service Life Remaining (Years) : 0

Height: 0 Ft.

Slope:

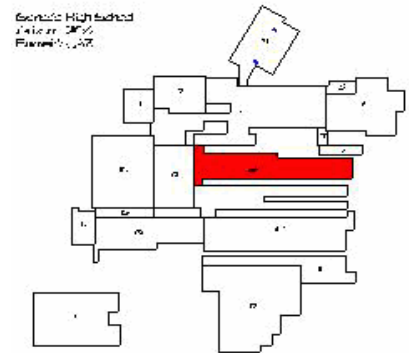
Interior Sensitivity:

Drainage: Adequate

Currently Leaking? Yes

History of Leaking? Yes

Drainage and Leak Details: Hail damage visible.



Overall Roof Inspection Assessments

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Unmaintainable Roof - Hail Damage

Based upon the known roof history, roof construction, and current roof condition, this roof area should only be considered for complete roof replacement of all components from the deck up.

Recommendations Details

Budget Year	Activity Type	Action Item ?	Allocation	Urgency	Quotation \$
2013	Replacement	Yes	Insurance	High	\$139,128
<u>Complete Replacement</u> We recommend complete roof replacement: Remove all roofing materials down to the deck. Install new roof system. <i>Due to extreme climate conditions th new roof system should be 80 mil white TPO fully adhered over HD board with insulated taper roof system.</i>					
					\$139,128

Roof Name: 9 - W

Roof Size: 8,184 sq. ft.

Est. replacement Cost: \$139,128.00

Existing System Type: Polyvinyl-Chloride Roofing (PVC)

Year Installed: 1993

Assessed Service Life Remaining (Years) : 0

Height: 0 Ft.

Slope:

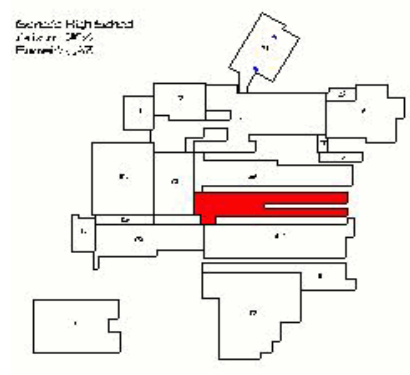
Interior Sensitivity:

Drainage: Adequate

Currently Leaking? Yes

History of Leaking? Yes

Drainage and Leak Details: Hail damage visible.



Overall Roof Inspection Assessments

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Unmaintainable Roof - Hail Damage

Based upon the known roof history, roof construction, and current roof condition, this roof area should only be considered for complete roof replacement of all components from the deck up.

Recommendations Details

Budget Year	Activity Type	Action Item ?	Allocation	Urgency	Quotation \$
2013	Replacement	Yes	Insurance	High	\$139,128
<u>Complete Replacement</u> We recommend complete roof replacement: Remove all roofing materials down to the deck. Install new roof system. <i>Due to extreme climate conditions th new roof system should be 80 mil white TPO fully adhered over HD board with insulated taper roof system.</i>					
					\$139,128

Roof Name: 10

Roof Size: 10,710 sq. ft.

Est. replacement Cost: \$182,070.00

Existing System Type: Polyvinyl-Chloride Roofing (PVC)

Year Installed: 1993

Assessed Service Life Remaining (Years) : 0

Height: 0 Ft.

Slope:

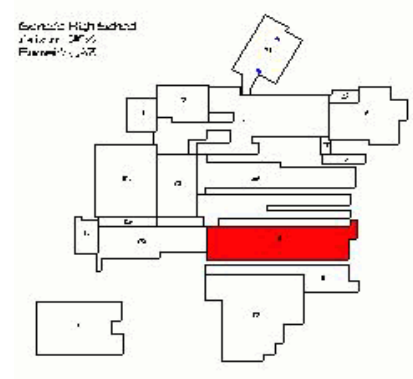
Interior Sensitivity:

Drainage: Adequate

Currently Leaking? Yes

History of Leaking? Yes

Drainage and Leak Details: Hail damage visible.



Overall Roof Inspection Assessments

Date	Inspection Type	Inspecting Company	Inspector
Apr 23, 2013	Visual Inspection	WRECORP	Jerry Brown

Unmaintainable Roof - Hail Damage

Based upon the known roof history, roof construction, and current roof condition, this roof area should only be considered for complete roof replacement of all components from the deck up.

Recommendations Details

Budget Year	Activity Type	Action Item ?	Allocation	Urgency	Quotation \$
2013	Replacement	Yes	Insurance	High	\$182,070
<u>Complete Replacement</u> We recommend complete roof replacement: Remove all roofing materials down to the deck. Install new roof system. <i>Due to extreme climate conditions th new roof system should be 80 mil white TPO fully adhered over HD board with insulated taper roof system.</i>					\$182,070

Roof Name: 11

Roof Size: 4,984 sq. ft.

Est. replacement Cost: \$84,728.00

Existing System Type: Polyvinyl-Chloride Roofing (PVC)

Year Installed: 1993

Assessed Service Life Remaining (Years) : 0

Height: 0 Ft.

Slope:

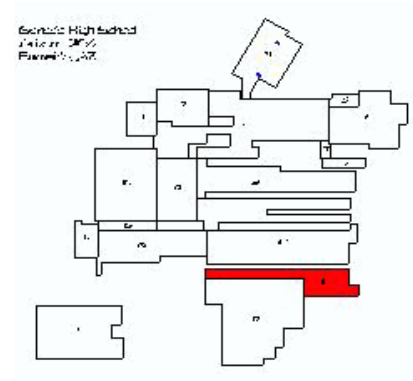
Interior Sensitivity:

Drainage: Adequate

Currently Leaking? Yes

History of Leaking? Yes

Drainage and Leak Details: Hail damage visible.



Overall Roof Inspection Assessments

Date	Inspection Type	Inspecting Company	Inspector
Apr 23, 2013	Visual Inspection	WRECORP	Jerry Brown

Unmaintainable Roof - Hail Damage

Based upon the known roof history, roof construction, and current roof condition, this roof area should only be considered for complete roof replacement of all components from the deck up.

Recommendations Details

Budget Year	Activity Type	Action Item ?	Allocation	Urgency	Quotation \$
2013	Replacement	Yes	Insurance	High	\$84,728
<u>Complete Replacement</u> We recommend complete roof replacement: Remove all roofing materials down to the deck. Install new roof system. <i>Due to extreme climate conditions th new roof system should be 80 mil white TPO fully adhered over HD board with insulated taper roof system.</i>					
					\$84,728

Roof Name: 13

Roof Size: 7,345 sq. ft.

Est. replacement Cost: \$124,865.00

Existing System Type: Polyvinyl-Chloride Roofing (PVC)

Year Installed: 1993

Assessed Service Life Remaining (Years) : 0

Height: 0 Ft.

Slope:

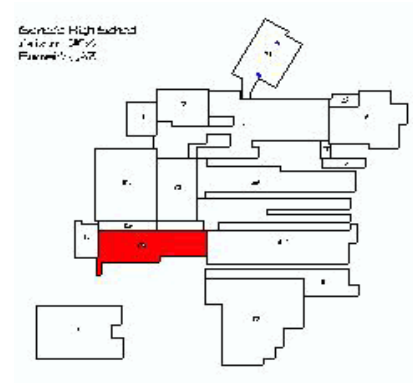
Interior Sensitivity:

Drainage: Adequate

Currently Leaking? Yes

History of Leaking? Yes

Drainage and Leak Details: Hail damage visible.



Overall Roof Inspection Assessments

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Unmaintainable Roof - Hail Damage

Based upon the known roof history, roof construction, and current roof condition, this roof area should only be considered for complete roof replacement of all components from the deck up.

Recommendations Details

Budget Year	Activity Type	Action Item ?	Allocation	Urgency	Quotation \$
2013	Replacement	Yes	Insurance	High	\$124,865
<u>Complete Replacement</u> We recommend complete roof replacement: Remove all roofing materials down to the deck. Install new roof system. <i>Due to extreme climate conditions th new roof system should be 80 mil white TPO fully adhered over HD board with insulated taper roof system.</i>					\$124,865

Roof Name: 14

Roof Size: 1,843 sq. ft.

Est. replacement Cost: \$31,331.00

Existing System Type: Polyvinyl-Chloride Roofing (PVC)

Year Installed: 1993

Assessed Service Life Remaining (Years) : 1

Height: 0 Ft.

Slope:

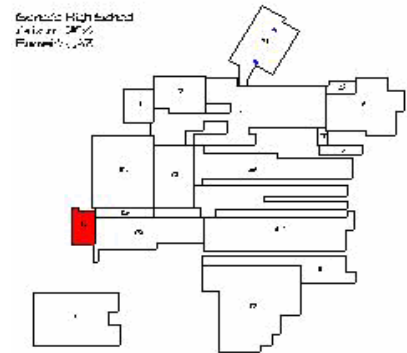
Interior Sensitivity:

Drainage: Inadequate

Currently Leaking? Unknown

History of Leaking? Unknown

Drainage and Leak Details:



Overall Roof Inspection Assessments

Date	Inspection Type	Inspecting Company	Inspector
Apr 23, 2013	Visual Inspection	WRECORP	Jerry Brown

Unmaintainable Roof - Hail Damage

Based upon the known roof history, roof construction, and current roof condition, this roof area should only be considered for complete roof replacement of all components from the deck up.

Recommendations Details

Budget Year	Activity Type	Action Item ?	Allocation	Urgency	Quotation \$
2013	Replacement	Yes	Insurance	High	\$31,331
<u>Complete Replacement</u> We recommend complete roof replacement: Remove all roofing materials down to the deck. Install new roof system. <i>Due to extreme climate conditions th new roof system should be 80 mil white TPO fully adhered over HD board with insulated taper roof system.</i>					\$31,331

Roof Name: 16

Roof Size: 9,692 sq. ft.

Est. replacement Cost: \$164,764.00

Existing System Type: Polyvinyl-Chloride Roofing (PVC)

Year Installed: 1993

Assessed Service Life Remaining (Years) : 0

Height: 0 Ft.

Slope:

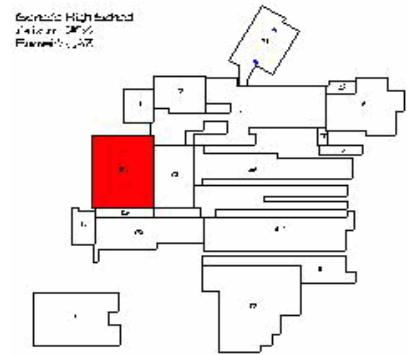
Interior Sensitivity:

Drainage: Adequate

Currently Leaking? Yes

History of Leaking? Yes

Drainage and Leak Details: Hail damage visible.



Overall Roof Inspection Assessments

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Unmaintainable Roof - Hail Damage

Based upon the known roof history, roof construction, and current roof condition, this roof area should only be considered for complete roof replacement of all components from the deck up.

Recommendations Details

Budget Year	Activity Type	Action Item ?	Allocation	Urgency	Quotation \$
2013	Replacement	Yes	Insurance	High	\$164,764
<u>Complete Replacement</u> We recommend complete roof replacement: Remove all roofing materials down to the deck. Install new roof system. <i>Due to extreme climate conditions th new roof system should be 80 mil white TPO fully adhered over HD board with insulated taper roof system.</i>					\$164,764

Roof Name: 17

Roof Size: 5,468 sq. ft.

Est. replacement Cost: \$92,956.00

Existing System Type: Polyvinyl-Chloride Roofing (PVC)

Year Installed: 1993

Assessed Service Life Remaining (Years) : 0

Height: 0 Ft.

Slope:

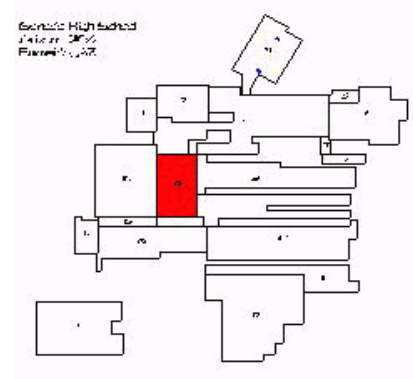
Interior Sensitivity:

Drainage: Adequate

Currently Leaking? Yes

History of Leaking? Yes

Drainage and Leak Details: Hail damage visible.



Existing Roof System Construction

Layer Type	Description	Method Of Attachment
Single Ply Membrane	PVC	Cold adhesive
Insulation	Polyisocyanurate	Mechanically attached
BUR System	4 Ply	Hot asphalt
Insulation	Perlite Tapered System	Hot asphalt
Insulation	Comp Board	Mechanically attached
Deck	Metal Deck	Mechanically attached

Overall Core Condition

Membrane

The waterproofing capabilities of the roof membrane is inadequate due to hail damage, and membrane fractures at this point in time.

Insulation

Where core was cut, the insulation components appear to have varying degrees moisture present. The R value and stability of the perlite taper and composite board insulation is no long viable as soon as it becomes wet.

Core sample taken 8 feet from drain was 8 inches thick. Indicating that the metal decking is flat and the roof slope was created by using taper insulation.

Core Photos

Photos	Date	Description
	Apr 23, 2013	Core cut #1

Overall Roof Inspection Assessments

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Apr 23, 2013	Visual Inspection	WRECORP	Jerry Brown

Unmaintainable Roof - Hail Damage

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Recommendations Details

Budget Year	Activity Type	Action Item ?	Allocation	Urgency	Quotation \$
2013	Replacement	Yes	Insurance	High	\$92,956
<u>Complete Replacement</u> We recommend complete roof replacement: Remove all roofing materials down to the deck. Install new roof system. <i>Due to extreme climate conditions th new roof system should be 80 mil white TPO fully adhered over HD board with insulated taper roof system.</i>					\$92,956

Roof Name: 18

Roof Size: 6,181 sq. ft.

Est. replacement Cost: \$105,077.00

Existing System Type: Ethylene-Propylene-Diene-Monomer Roofing (EPDM)

Year Installed: 1998

Assessed Service Life Remaining (Years) : 1

Height: 0 Ft.

Slope: 1/4 in 12

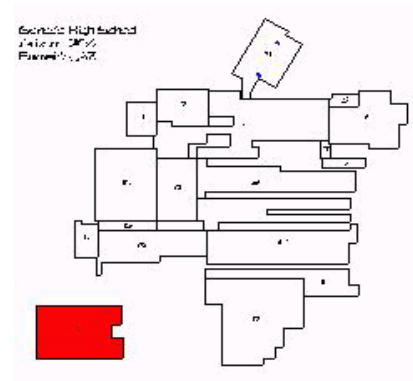
Interior Sensitivity: Normal

Drainage: Inadequate

Currently Leaking? Yes

History of Leaking? Yes

Drainage and Leak Details: The roofing system is no longer attached to the structure at the perimeter.



Overall Roof Inspection Assessments

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Apr 23, 2013	Visual Inspection	WRECORP	Jerry Brown

Unmaintainable Roof

Based upon the known roof history, roof construction, and current roof condition, this roof area should only be considered for complete roof replacement of all components from the deck up. this roof has shrunk and pulled the membrane loose from the perimeter edge. The adhesives have never set up and are still active therefore not securing the membrane to the deck.

Recommendations Details

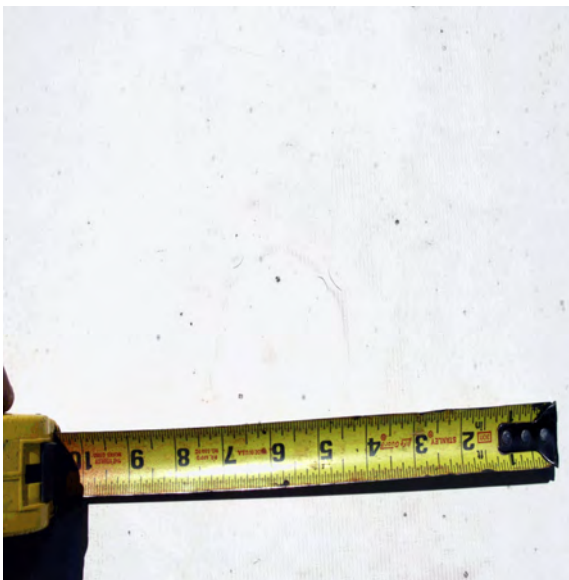
Budget Year	Activity Type	Action Item ?	Allocation	Urgency	Quotation \$
2013	Replacement	Yes	Capital	High	\$105,077
<u>Complete Replacement</u> We recommend complete roof replacement: Remove all roofing materials down to the deck. Install new roof system. <i>Due to extreme climate conditions th new roof system should be 80 mil white TPO fully adhered over HD board with insulated taper roof system.</i>					\$105,077



Hail strikes/fractures



Hail strikes/fractures



Hail strikes/fractures



Hail strikes/fractures



Hail strikes/fractures



Hail strikes/fractures



Hail strikes/fractures



Hail strikes/fractures



Hail strikes/fractures



Hail strikes/fractures



Hail strikes/fractures



Hail strikes/fractures



Hail strikes/fractures



Coated cricket valley area that had been leaking.
Hail strikes / fractures



Coated cricket valley area that had been leaking.
Hail strikes / fractures



Coated cricket valley area that had been leaking.
Hail strikes / fractures



Hail strikes/fractures



Hail strikes/fractures



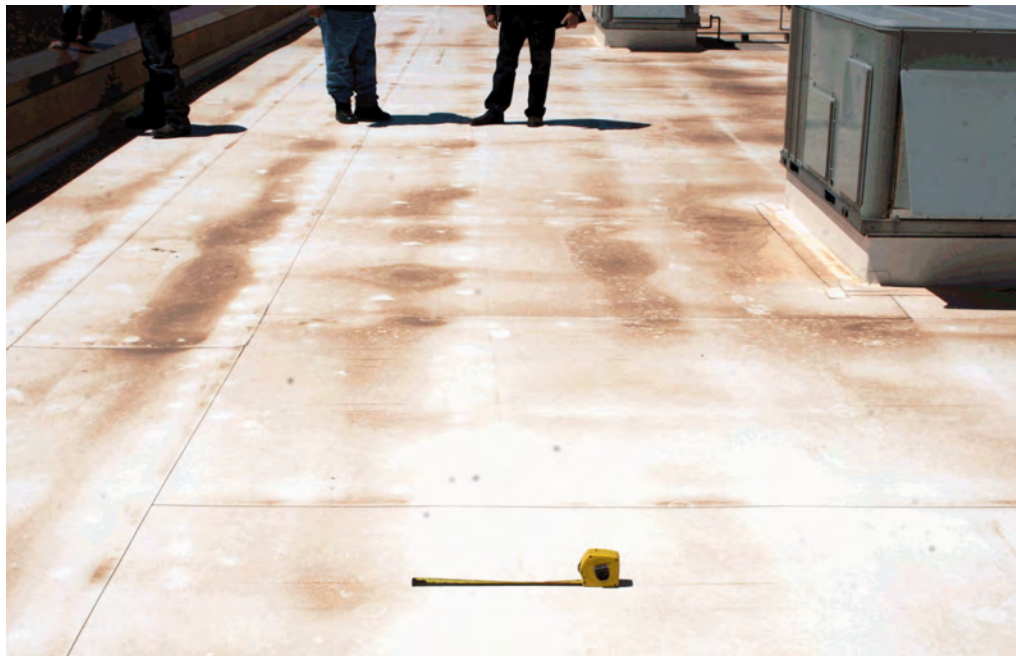
Hail strikes/fractures



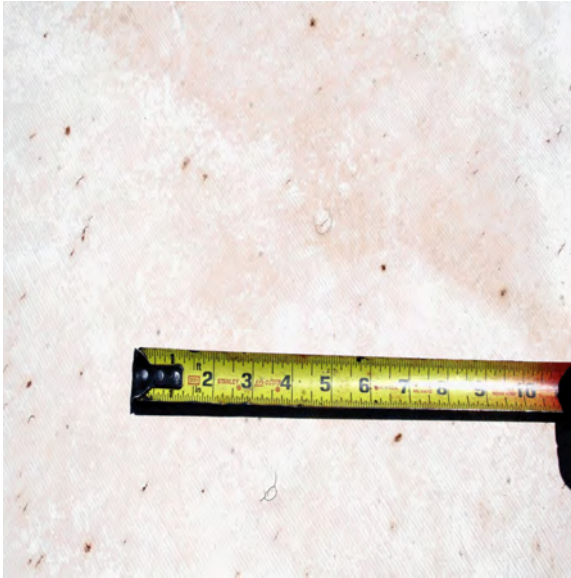
Hail strikes/fractures



Membrane has been cut with a knife, most likely at time of installation. This normally occurs when the workman are cutting their base flashing material, they lay it on the deck to cut.



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Hail strikes/fractures



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Hail strikes/fractures



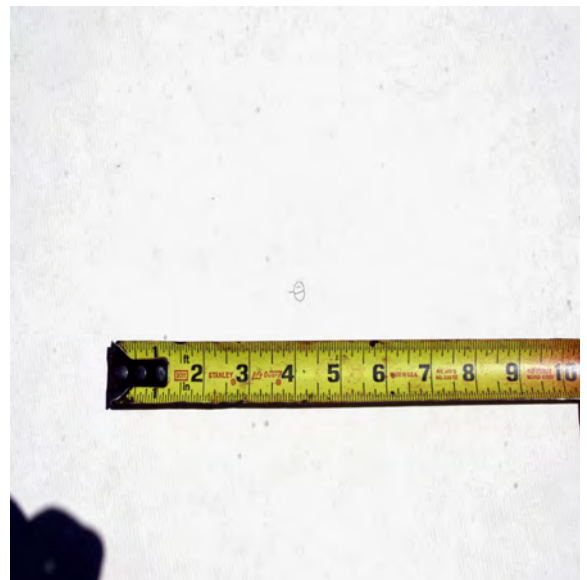
Hail strikes/fractures



Hail strikes/fractures



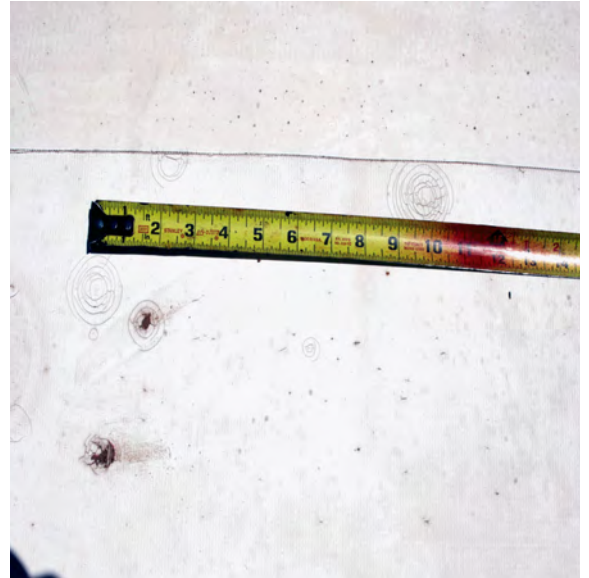
Hail strikes/fractures



Hail strikes/fractures



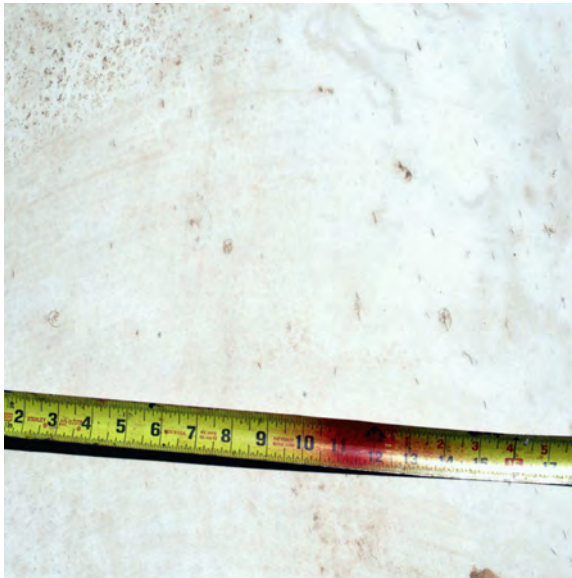
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Hail strikes/fractures



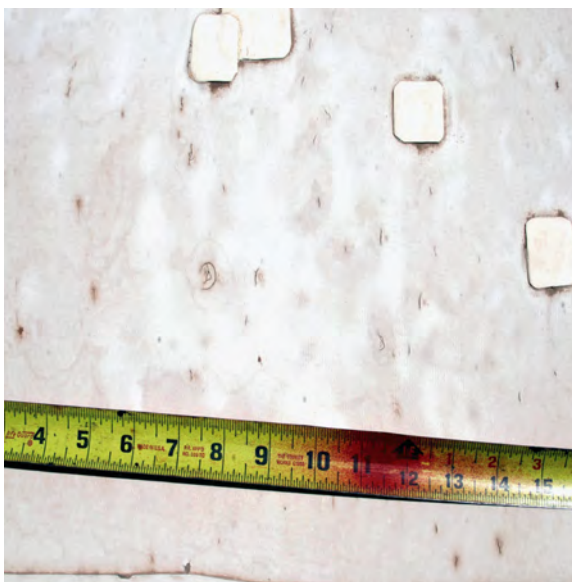
Wind damage base flashing that has been pulled loose from walls.



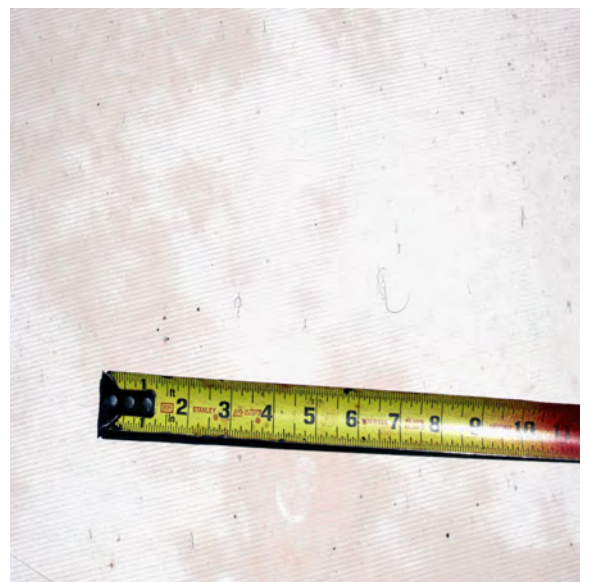
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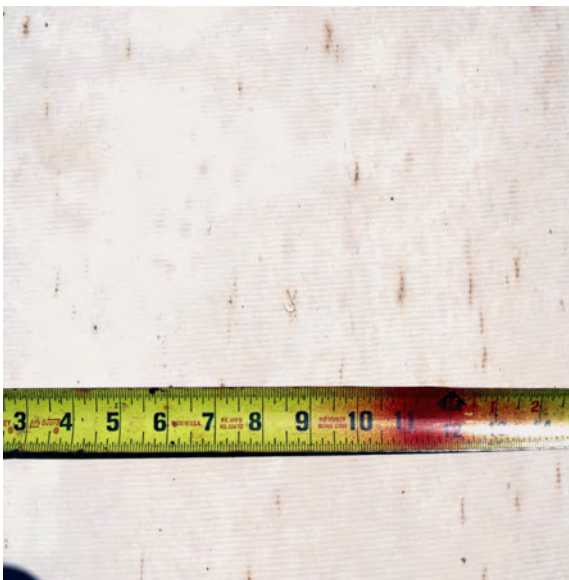
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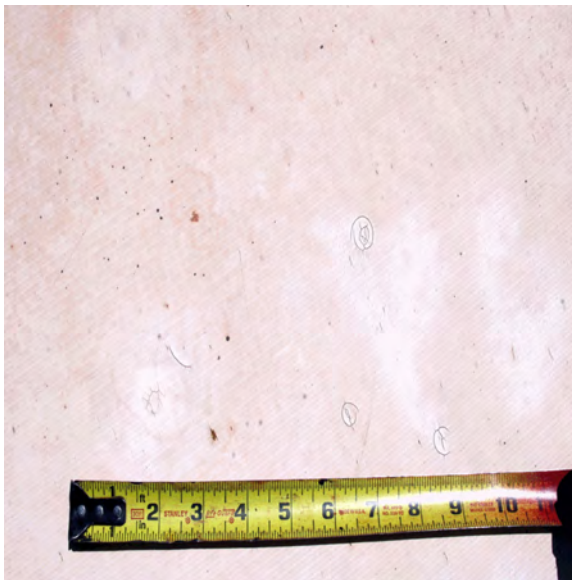
Hail strikes/fractures



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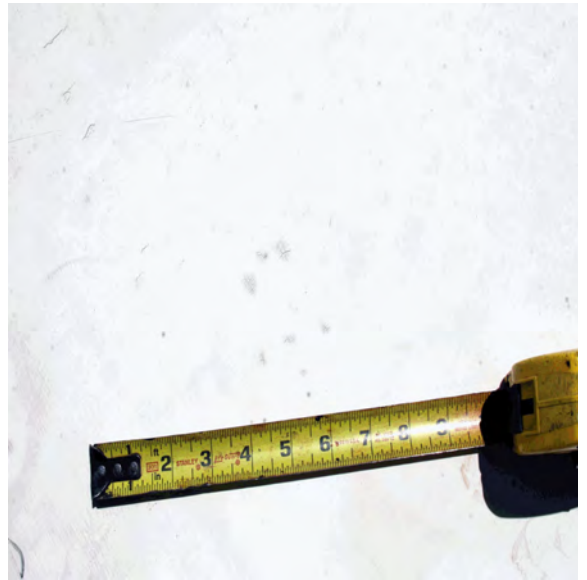
Hail strikes/fractures



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Hail strikes/fractures



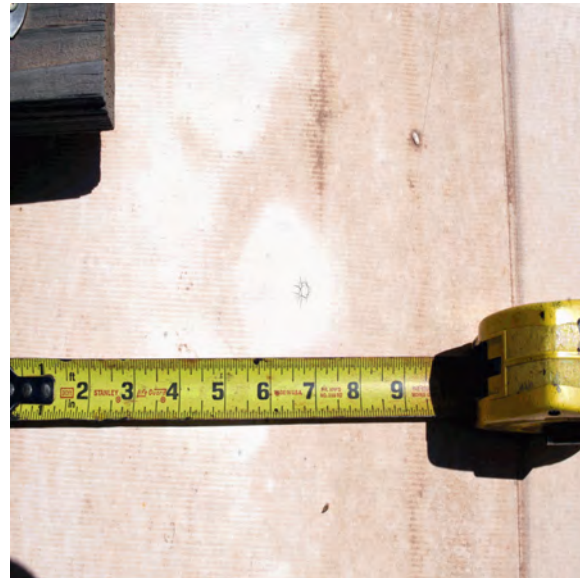
Hail strikes/fractures



Hail strikes/fractures



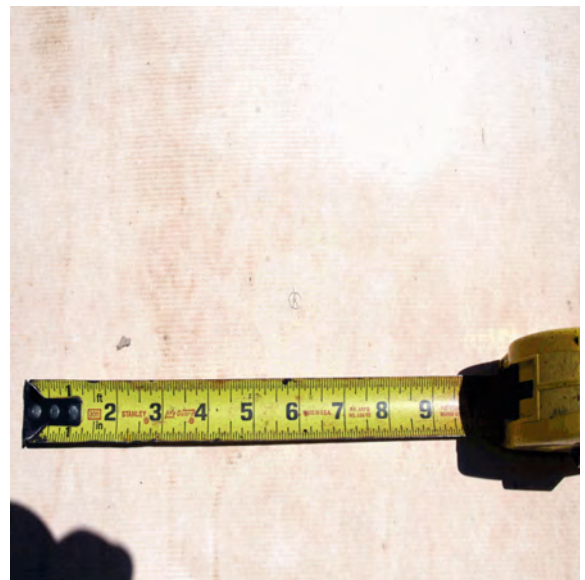
Hail strikes/fractures



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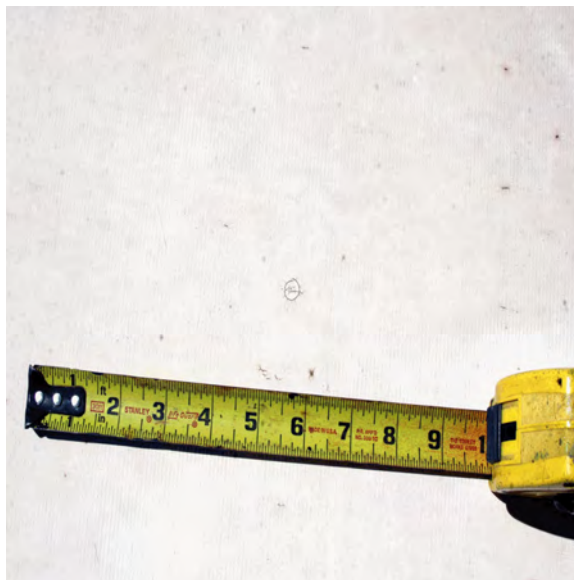
Hail strikes/fractures



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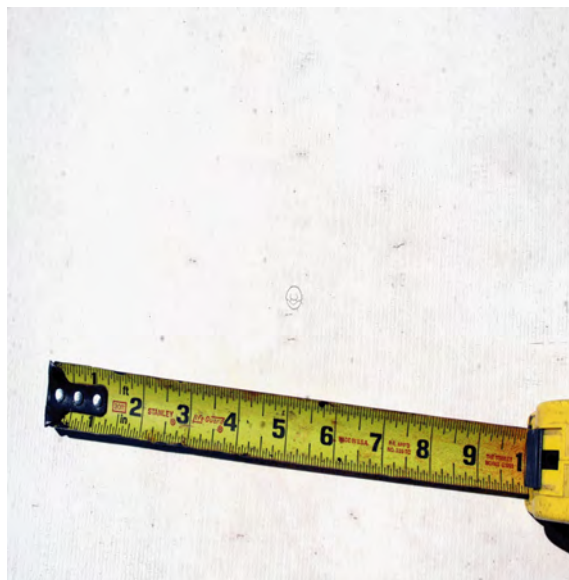
Hail strikes/fractures



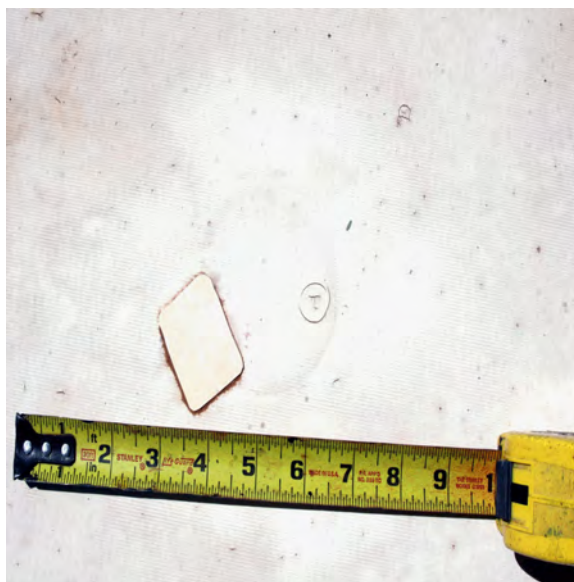
Hail strikes/fractures



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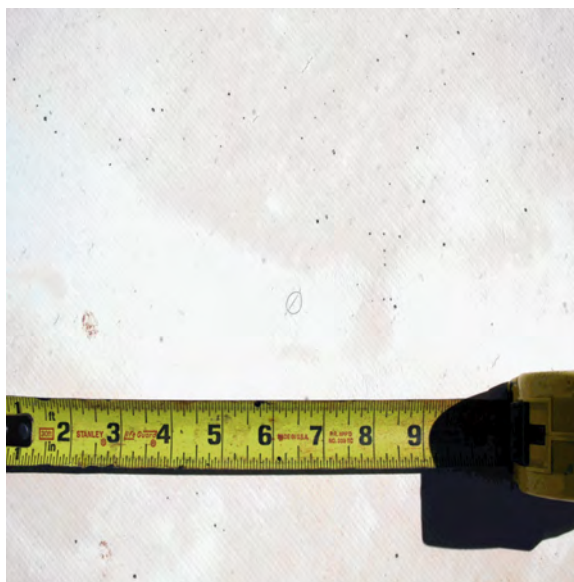
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Hail strikes/fractures



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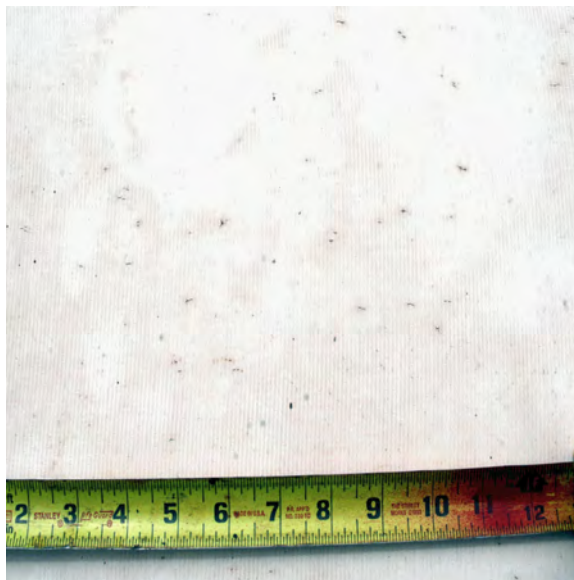
Hail strikes/fractures



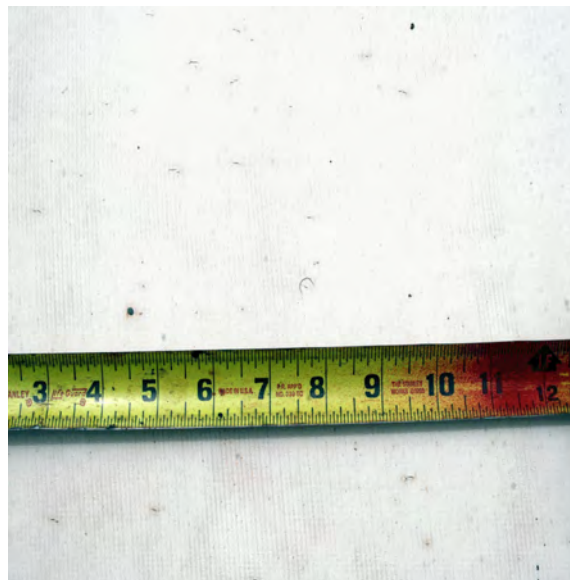
Hail strikes/fractures



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Hail strikes/fractures



Hail strikes/fractures



Core sample showing two roof systems.



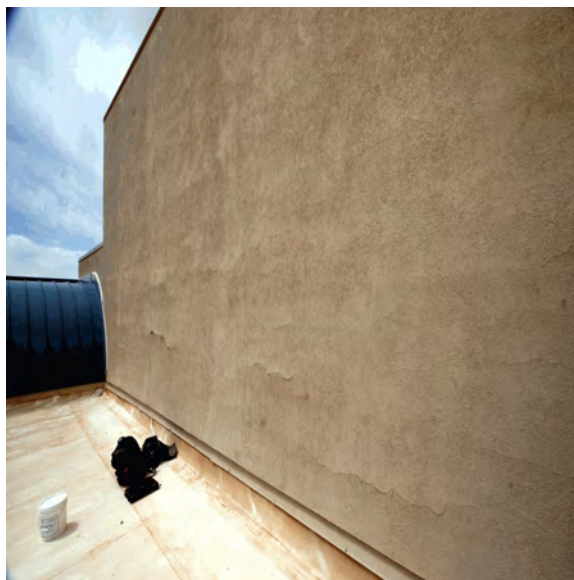
Core sample



Wall fracturing allowing moisture into the system and structure.



Wall fracturing allowing moisture into the system and structure.



Wall fracturing allowing moisture into the system and structure.



Hail strikes/fractures



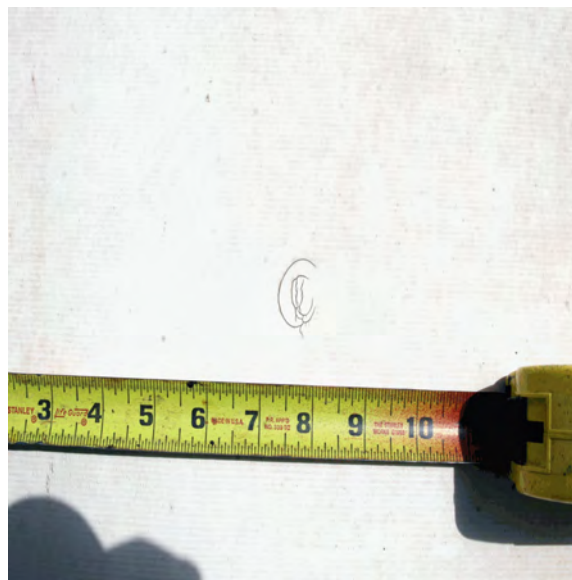
Hail strikes/fractures



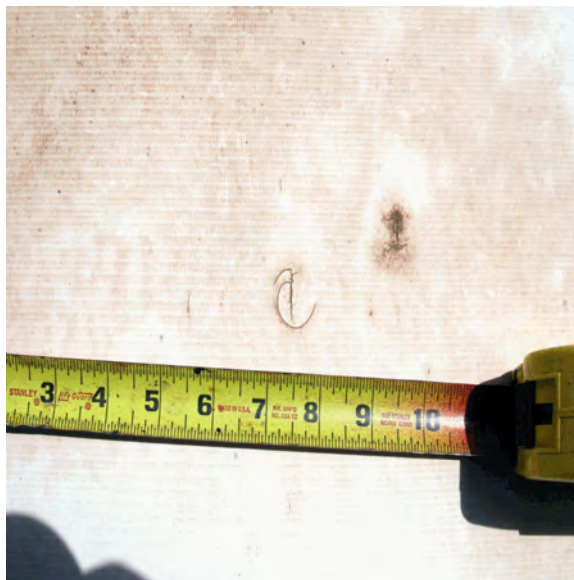
Hail strikes/fractures



Hail strikes/fractures



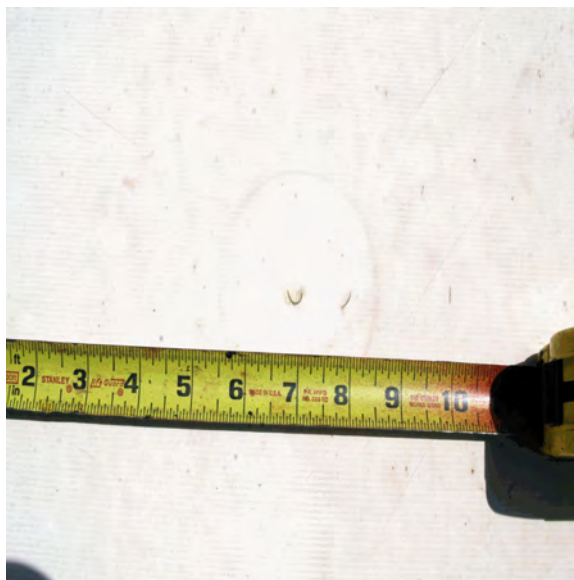
Hail strikes/fractures



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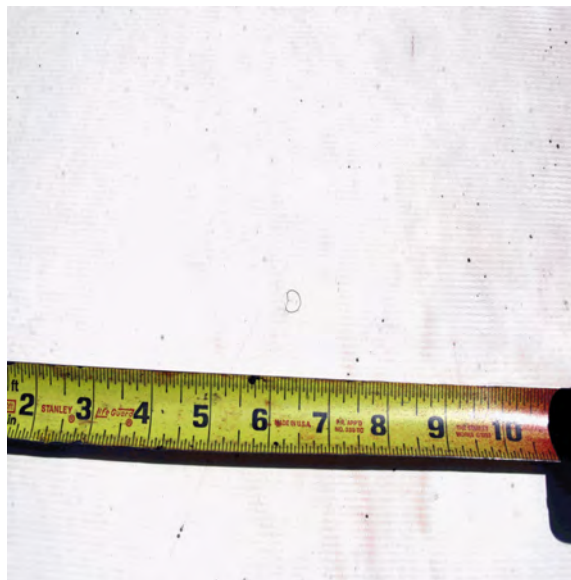
Hail strikes/fractures



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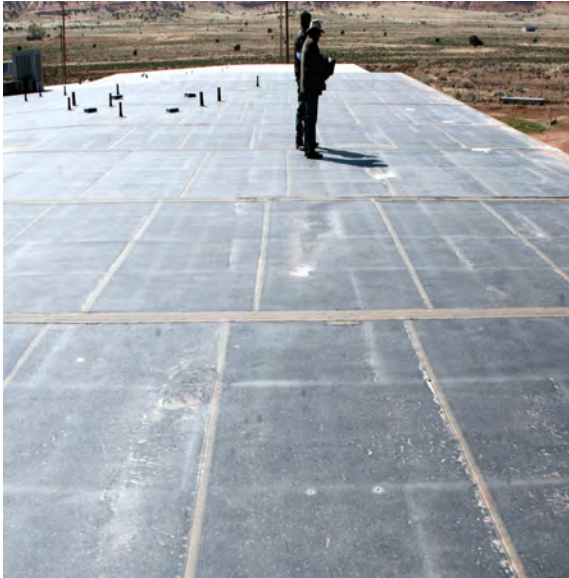
Hail strikes/fractures



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Hail strikes/fractures



EPDM roof system that is failing. EPDM has a history of shrinking approximately 2%. This system has shrunk so far as to pull itself loose from the edge detail exposing the system to water and blow off.



EPDM pulled off the edge detail. Adhesive is not working.



EPDM pulled off the edge detail. Adhesive is not working.



Stamp ID showing type of material and thickness.



Manufacturer.

Ganado High School
Arizona 264
Burnside, AZ

