

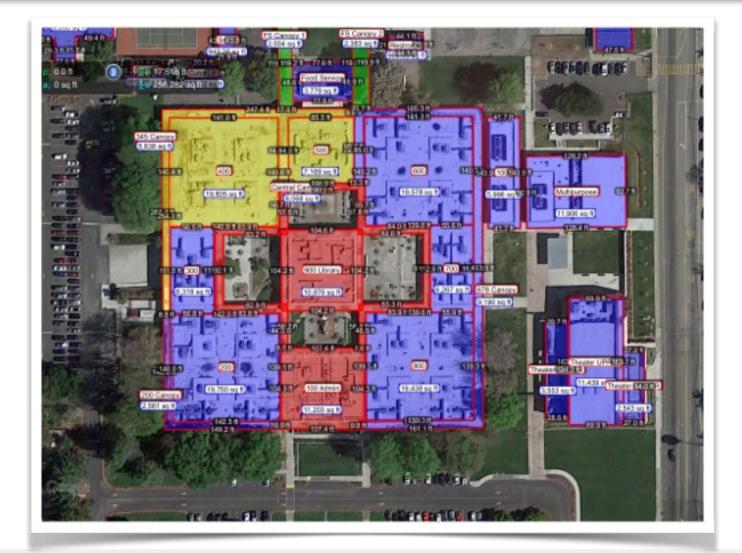


BUILDING	100 Admin, 900 L	ibrary	, Central Canopy				E	N (G I N E E R I N IG SERVICES FOR THE BUILDING ENVE	G LOPE
ROOF SQ FT	30,000									
ROOF CONSTRU	JCTION									
ROOF AGE	1995	⋖	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	✓
DECK TYPE	METAL		PLYWOOD		PLANK		CONCRETE	~	LW CONCRETE	
INSULATION	NONE		ISO		FIBER	\	PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH	✓	4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR	✓	MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP		GRAVEL		SMOOTH		GRANULE	✓
FLASHINGS	CAPSHEET	~	HYPALON							
DRAINAGE	JOSAM	✓	SCUPPERS		GUTTERS	✓	OVER EDGE			
SLOPE	1/4 inch	✓	1:12		2:12		3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	0) an	d RECOMMENDA	101T <i>i</i>	NS					#
FIELD			PAIRS NEEDED			_		_	RATING	2
			RESEAL SEAMS		REPAIR R	LIST	ERS or RIDGING		SS RATING	
	CI E						REPAIR NEEDED			
			OOF OF DEBRIS							
	DECK		AR SUSPECTED				CE FASTENERS			
			AZE CRACKING				TLE MEMBRANE			
			CESSIVE WEAR	✓	MEMBRAN	IE FII	BERS EXPOSED	✓		
PITCH/POND			PAIRS NEEDED					✓	RATING	2
	F		ONDING AREAS							
		5	SOME PONDING		EXCESSIVE PONDING					
FLASHING		DE	PAIRS NEEDED						RATING	2
FLASHING			EAL/REPAIR ALL		RES	ΕΔΙ /	REPAIR SELECT		SS RATING	
			COAT AC DUCT	-			L/RECOAT WALL	7	001011110	
			VALL FLASHING		RESEAL/RECOAT WALL					
DRAINAGE		RE	PAIRS NEEDED						RATING	3
	ADD/E	ENHA	NCE CRICKETS	✓	ADD/E	NHAN	ICE OVERFLOW			
			CLEAR DRAINS	\checkmark			ADD GUTTER			
	GUTT	ER R	REPAIR NEEDED		GUTTE	R CC	DATING NEEDED	\		
PENETRATION		RE	PAIRS NEEDED						RATING	3
		RESE	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT			
		REPL	ACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE			
ADDITIONAL			CTION NEEDED							
			ROOF ACCESS		ADD	EXT	ERNAL LADDER			
MAINTENANCE			AD EQUIPMENT DRAINS CLEAN		KEED	\ \ /\T	ERWAYS CLEAN			
MAINTENANCE			UNTIL REROOF		NEEP	VVAI	TRIM TREES			
			OOF OF DEBRIS		H\.	/AC F		V		
			AT SUSPECTED	~	HVAC REPAIR NEEDED KEEP SS GUTTERS CLEAR					
LEAKS			ENCE OF LEAKS	_	YES		NO			
ROOF CONDITIO	ON - OVERALL SY:	STFN	I RATING		_		_		_	
VERY POOR		0 1 2 11	71011110		REPLACE OR C	COAT	IMMEDIATELY - S	SPO	Γ REPAIRS ONLY	-
POOR							IN 1-2 YEARS - S			
FAIR									AT IN 3-5 YEARS	
MARGINAL									T IN 5-10 YEARS	
GOOD									IN 10-15 YEARS	
EXCELLENT					C	NLY	IF ROOF IS LESS			
						'				

ROOFS ARE IN BAD SHAPE. IF CHOOSING, THE ADMIN BUILDING IS THE FIRST CHOICE TO REPLACE. NO INSULATION ON THE CANOPIES.

	BUDGET ESTIMATES
\$0.00	IMMEDIATE REPAIRS AS RECOMMENDED
\$3,000.00	YEARLY PREVENTIVE MAINENANCE
\$0.00	ROOF RECOATING
T \$450,000.00	ROOF REPLACEMENT

An aerial view of the building - this report for the areas in red.





The photo below shows extensive repairs applied to the 900 building roof.



The photo below shows AC units that need repair.







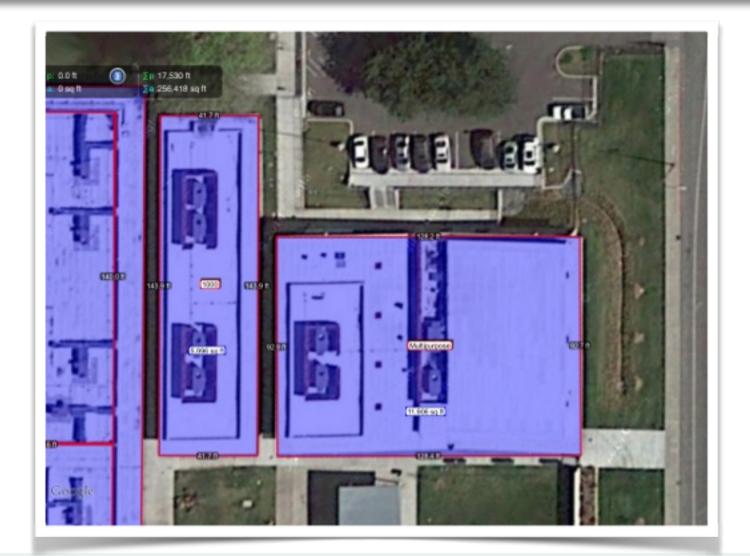
BUILDING	1000 Multi, 1000 CR North, 1000 CR South							E N G I N E E R I N G ENGINEERING SERVICES FOR THE BUILDING ENVELOPE			
ROOF SQ FT	18,000							NUMEERI	NO SERVICES FOR THE DUILDING ENVE	LUPE	
ROOF CONSTRU	JCTION										
ROOF AGE	2012	✓	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS		
DECK TYPE	METAL		PLYWOOD	✓	PLANK		CONCRETE		LW CONCRETE		
INSULATION	NONE		ISO		FIBER		PERLITE		STYRO		
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED		
MEMBRANE	METAL SS		SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS		
MEM SURFACE	COATING	✓	MS CAP	✓	GRAVEL		SMOOTH	✓	GRANULE		
FLASHINGS	CAPSHEET	✓	HYPALON								
DRAINAGE	JOSAM	✓	SCUPPERS	✓	GUTTERS		OVER EDGE				
SLOPE	1/4 inch		1:12		2:12	4	3:12		6:12		
ROOF CONDITIO	ON - RATINGS (1-1	0) ar	nd RECOMMENDA	ATIOI	NS					#	
FIELD			EPAIRS NEEDED						RATING	8	
			RESEAL SEAMS		·	EXTE	ENSIVE RIDGING		SS RATING		
	CLEA	AR R	OOF OF DEBRIS		DE	CK F	REPAIR NEEDED				
			AIR SUSPECTED		RESEAL/E	RPI A	ACE FASTENERS				
		CF	RAZE CRACKING				TLE MEMBRANE				
			CESSIVE WEAR				BERS EXPOSED				
PITCH/POND			EPAIRS NEEDED		MEMBION	.	BENO EXI OOED		RATING	7	
11101111 01112	F		ONDING AREAS		FIΣ	(DE	CK DEFLECTION		1001110	,	
		;	SOME PONDING	✓	EXCESSIVE PONDING						
FLASHING	REPAIRS NEEDED								RATING	8	
	RESEAL/REPAIR ALL				RES	EAL/	REPAIR SELECT		SS RATING		
	RESEA	AL/RE	ECOAT AC DUCT		RE	RESEAL/RECOAT WALL					
	RESI		WALL FLASHING								
DRAINAGE	4 D.D.(5		EPAIRS NEEDED		400/5				RATING	8	
	ADD/E	:NHA	NCE CRICKETS CLEAR DRAINS		ADD/EI	NHAI	NCE OVERFLOW ADD GUTTER				
	GUTT	FR F	REPAIR NEEDED		GUTTER COATING NEEDED						
PENETRATION	3511		EPAIRS NEEDED		33112		7,11110112222		RATING	8	
		RES	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT				
		REP	LACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE				
ADDITIONAL		Δ	CTION NEEDED								
			ROOF ACCESS		ADD	EXT	ERNAL LADDER				
			AD EQUIPMENT								
MAINTENANCE			DRAINS CLEAN		KEEP	WAI	ERWAYS CLEAN				
			UNTIL REROOF OOF OF DEBRIS		TRIM TREE:						
	_		IAT SUSPECTED				SUTTERS CLEAR				
LEAKS			ENCE OF LEAKS		YES		NO	_			
ROOF CONDITIO	ON - OVERALL SY:	STEN	A RATING		_		_		_		
VERY POOR	Z. OVERVILL OT	J - E1			REPLACE OR C	COAT	IMMEDIATELY - :	SPO ⁻	T REPAIRS ONLY		
POOR							Γ IN 1-2 YEARS - 3				
FAIR					<i>z</i> = 0		_		AT IN 3-5 YEARS		
MARGINAL									AT IN 5-10 YEARS		
GOOD									IN 10-15 YEARS		

EXCELLENT

CLEAR SLOW MOVING DRAINS IN ORDER TO PREVENT PONDING AND PREMATURE ROOF DETERIORATION.

ONLY IF ROOF IS LESS THAN 5 YEARS OLD

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$2,000.00
YEARLY PREVENTIVE MAINENANCE	\$1,500.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$270,000.00



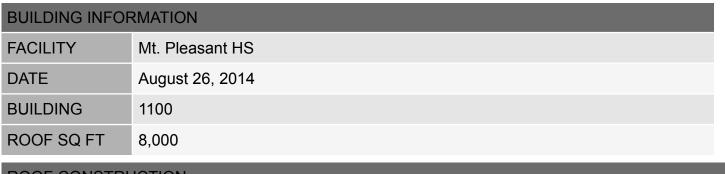


Another overview photo from the roof level.



Clear this slow moving drain to prevent ponding - lower level between main roofs.







ROOF SQ FT	8,000						į.	NGINEERIN	IG SERVICES FOR THE BUILDING ENVE	ELOPE
ROOF CONSTRU			_		_		_		_	_
ROOF AGE	1995	V	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	_	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE		ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP		GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET		HYPALON							
DRAINAGE	JOSAM	_	SCUPPERS		GUTTERS		OVER EDGE			
SLOPE	1/4 inch		1:12		2:12		3:12		6:12	
	ON - RATINGS (1-1									#
FIELD	DN - IVATINGS (1-1		PAIRS NEEDED		NO				RATING	2
FIELD			RESEAL SEAMS		,	-v+c	NSIVE RIDGING	~	SS RATING	_
	OLE /						REPAIR NEEDED		0017711170	
			OOF OF DEBRIS							
	DECK		AZE CDACKING				CE FASTENERS	_		
			AZE CRACKING							
DITOLUDOND			CESSIVE WEAR	✓	MEMBRANE FIBERS EXPOSED				DATINO	_
PITCH/POND	-		PAIRS NEEDED		FIX DECK DEFLECTION				RATING	5
	F		ONDING AREAS SOME PONDING							
		,	DOWL I ONDING		EXCESSIVE PONDING					
FLASHING		RE	PAIRS NEEDED						RATING	1
		RESI	EAL/REPAIR ALL		RESEAL/REPAIR SELECT				SS RATING	
	RESEA	AL/RE	COAT AC DUCT		RE	SEAL	_/RECOAT WALL	⋖		
	RES	EAL \	VALL FLASHING							
DRAINAGE		RE	PAIRS NEEDED						RATING	4
	ADD/E	ENHA	NCE CRICKETS	✓	ADD/EN	NHAN	ICE OVERFLOW			
			CLEAR DRAINS				ADD GUTTER	_		
	GUTT		REPAIR NEEDED		GUTTE	R CC	ATING NEEDED	✓		
PENETRATION			PAIRS NEEDED		DEO	- 41 //			RATING	3
		RESEAL/REPAIR ALL REPLACE SKYLIGHT					REPAIR SELECT /HEN POSSIBLE			
		IXLI I	LACE SITTEIGHT		TAISE HEIO	III V	VIILIVI OSSIBLE			
ADDITIONAL		А	CTION NEEDED							
	IMPF	ROVE	ROOF ACCESS	✓	ADD	EXT	ERNAL LADDER			
	REMOV	E DE	AD EQUIPMENT	S						
MAINTENANCE	k	KEEP	DRAINS CLEAN		KEEP	WATI	ERWAYS CLEAN			
	SPOT RE	PAIR	UNTIL REROOF	✓	TRIM TREES					
	CLEA	AR RO	OOF OF DEBRIS		HV	/AC F	REPAIR NEEDED	✓		
			AT SUSPECTED				UTTERS CLEAR			
LEAKS	E	EVIDE	NCE OF LEAKS		YES	✓	NO			
ROOF CONDITIO	ON - OVERALL SY	STEN	1 RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY -	SPO	Γ REPAIRS ONLY	
POOR					REPLACE OR (COAT	IN 1-2 YEARS -	SPO	Γ REPAIRS ONLY	
FAIR									AT IN 3-5 YEARS	
MARGINAL					REPLACE OR	COA	T IN 5-10 YEARS			

MARGINAL REPLACE OR COAT IN 5-10 YEARS

GOOD REPLACE OR COAT IN 10-15 YEARS

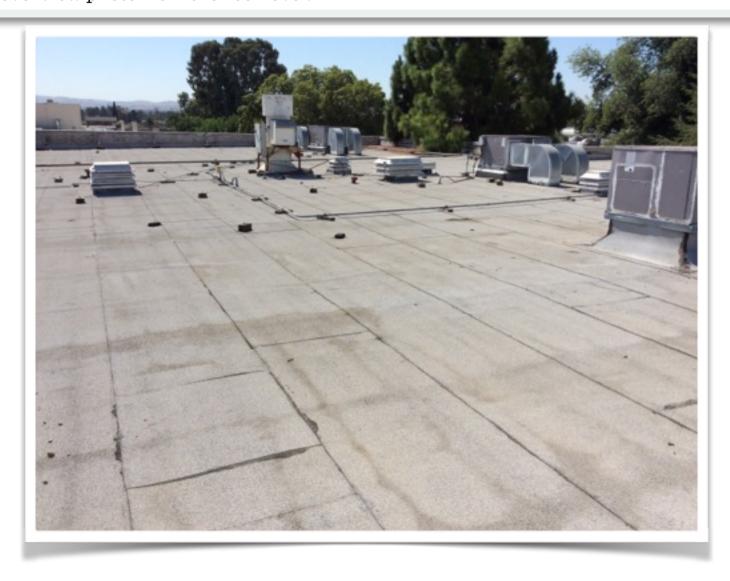
ONLY IF ROOF IS LESS THAN 5 YEARS OLD **EXCELLENT**

ADDITIONAL NOTES

ROOF IS IN BAD SHAPE. WALLS AND WALL FLASHING NEEDS TO BE REDESIGNED. A GOOD CHOICE TO BE REPLACED - ARGUABLY IN THE WORST SHAPE ON CAMPUS.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$1,500.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$120,000.00





Notice the plethora of ridge lines in the membrane.



The photo below shows the walls and flashing in horrible shape.







BUILDING	400, 500, 345 Canopy E N G I N E E R I N G ENGINEERING SERVICES FOR THE BUILDING ENVELOPE								G ELOPE			
ROOF SQ FT	33,000	33,000										
ROOF CONSTRU	JCTION											
ROOF AGE	2000	4	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS			
DECK TYPE	METAL		PLYWOOD		PLANK		CONCRETE	✓	LW CONCRETE			
INSULATION	NONE		ISO		FIBER	✓	PERLITE		STYRO			
INSUL THICK	1 INCH		2 INCH		3 INCH	✓	4 INCH		TAPERED			
MEMBRANE	METAL SS		SINGLE PLY		BUR	~	MOD BIT		TWO SYSTEMS			
MEM SURFACE	COATING		MS CAP		GRAVEL		SMOOTH		GRANULE	~		
FLASHINGS	CAPSHEET	~	HYPALON									
DRAINAGE	JOSAM	✓	SCUPPERS		GUTTERS	✓	OVER EDGE					
SLOPE	1/4 inch	\	1:12		2:12		3:12		6:12			
POOF CONDITION	ON - RATINGS (1-1	0) ar	d DECOMMENDA	ATIOIT/	NS					#		
FIELD)		EPAIRS NEEDED		10				RATING	3		
TILLD					r	-٧+	NONE DIDONG	_	SS RATING			
	0.5		RESEAL SEAMS				ENSIVE RIDGING	✓	33 NATING			
			OOF OF DEBRIS				REPAIR NEEDED					
	DECK		AIR SUSPECTED				ACE FASTENERS					
			AZE CRACKING		BRITTLE MEMBRANE							
		EX	CESSIVE WEAR		MEMBRANE FIBERS EXPOSED							
PITCH/POND			PAIRS NEEDED						RATING	3		
	F		ONDING AREAS		FIX DECK DEFLECTION							
			SOME PONDING		EXCESSIVE PONDING							
EL ACLUNIO		D	DAIDO NEEDED						DATING	2		
FLASHING	REPAIRS NEEDED				DEQ	⊏ ∧ι/	REPAIR SELECT		RATING SS RATING	3		
		RESEAL/REPAIR ALL RESEAL/RECOAT AC DUCT							33 KATING			
			WALL FLASHING		RESEAL/RECOAT WALL							
DRAINAGE			PAIRS NEEDED						RATING	4		
	ADD/E	ENHA	NCE CRICKETS	~	ADD/EN	1AH	NCE OVERFLOW					
			CLEAR DRAINS	\		ADD GUTTER						
	GUTT	ER F	REPAIR NEEDED		GUTTE	R CC	DATING NEEDED	\				
PENETRATION		RE	EPAIRS NEEDED						RATING	4		
		RES	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT					
		REP	LACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE	V				
		_										
ADDITIONAL	INADE		CTION NEEDED		ADD	- EVT						
			ROOF ACCESS AD EQUIPMENT		ADD	EXI	ERNAL LADDER					
MAINTENANCE			DRAINS CLEAN		KEEP	\ Λ/ΔΤ	FRWAYS CLEAN					
W/ WINTERW WOL			UNTIL REROOF	1	KEEP WATERWAYS CLEAN TRIM TREES							
			OOF OF DEBRIS		HVAC REPAIR NEEDED							
	F	IAZM	AT SUSPECTED	✓	KEEP	SS G	GUTTERS CLEAR					
LEAKS	E	EVIDE	ENCE OF LEAKS	✓	YES		NO					
ROOF CONDITIO	ON - OVERALL SY	STEN	/I RATING									
VERY POOR					REPLACE OR C	COAT	· IMMEDIATELY - S	SPO	T REPAIRS ONLY			
POOR							Γ IN 1-2 YEARS - S					
FAIR									AT IN 3-5 YEARS			
MARGINAL									T IN 5-10 YEARS			
GOOD									IN 10-15 YEARS			
						REPLACE OR COAT IN 10-13 TEARS						

EXCELLENT

ROOFS ARE IN POOR SHAPE. TOO MUCH RIDGING TO REPAIR. ONCE THE RIDGES CRACK, THE ROOF WILL FAIL. NO INSULATION ON THE CANOPIES.

ONLY IF ROOF IS LESS THAN 5 YEARS OLD

	BUDGET ESTIMATES
\$0.00	IMMEDIATE REPAIRS AS RECOMMENDED
\$3,000.00	YEARLY PREVENTIVE MAINENANCE
\$0.00	ROOF RECOATING
T \$495,000.00	ROOF REPLACEMENT

An aerial view of the building - this report for the areas in yellow.



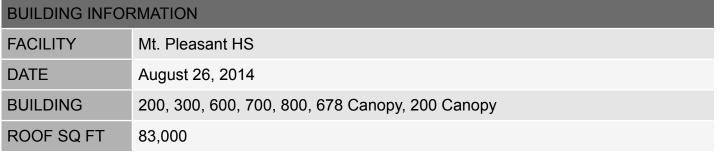


It's difficult to see in the photo but the field is riddled with ridging.



The photo below shows AC units that need repair -this will eventually produce a leak.





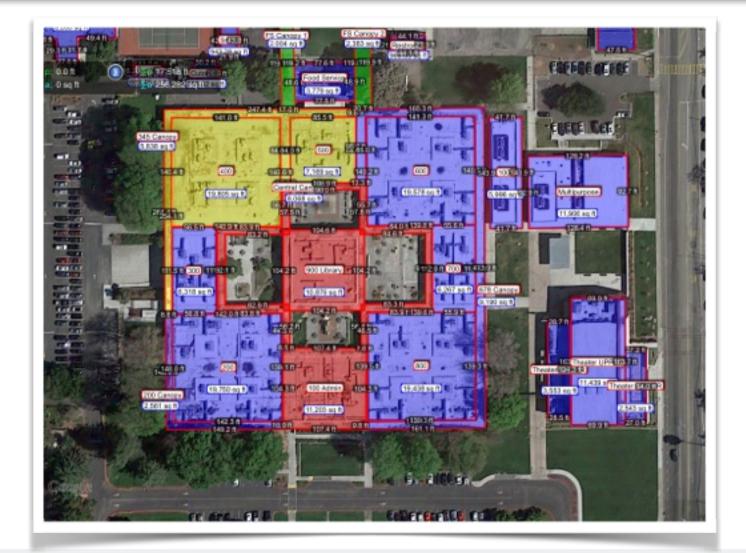


BUILDING	200, 300, 600, 700, 800, 678 Canopy, 200 Canopy							NGIVEERIN	G I N E E R I N NG SERVICES FOR THE BUILDING ENVE	ELOPE	
ROOF SQ FT	83,000									-	
ROOF CONSTRU	JCTION										
ROOF AGE	2013	\	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS		
DECK TYPE	METAL		PLYWOOD		PLANK		CONCRETE	\	LW CONCRETE		
INSULATION	NONE		ISO	⋖	FIBER		PERLITE		STYRO		
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED		
MEMBRANE	METAL SS		SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS		
MEM SURFACE	COATING	✓	MS CAP	✓	GRAVEL		SMOOTH	✓	GRANULE		
FLASHINGS	CAPSHEET	✓	HYPALON								
DRAINAGE	JOSAM	✓	SCUPPERS		GUTTERS	~	OVER EDGE				
SLOPE	NONE		1:12		2:12		3:12		6:12		
ROOF CONDITIO	ON - RATINGS (1-1	0) ar	nd RECOMMENDA	OITA	NS					#	
FIELD		RE	EPAIRS NEEDED	✓					RATING	7	
			RESEAL SEAMS			RI	EPAIR BLISTERS	~	SS RATING		
	CI EA		OOF OF DEBRIS		DE		REPAIR NEEDED				
			AIR SUSPECTED				CE FASTENERS				
	BEOIL		RAZE CRACKING								
							TLE MEMBRANE				
DITOLUDOND			CESSIVE WEAR		MEMBRANE FIBERS EXPOSED				DATING		
PITCH/POND	_		EPAIRS NEEDED		EIV DEGK DEEL EGTION				RATING	6	
	F		ONDING AREAS SOME PONDING		FIX DECK DEFLECTION EXCESSIVE PONDING				✓		
		,	SOME PONDING		EXCESSIVE PONDING						
FLASHING		REPAIRS NEEDED							RATING	6	
1 27 (31 111 (3	RESEAL/REPAIR ALL				RES	EAL/	REPAIR SELECT		SS RATING		
	RESEAL/RECOAT AC DUCT						L/RECOAT WALL				
	RES	EAL \	WALL FLASHING		REPAIR BLISTERS						
DRAINAGE		RE	EPAIRS NEEDED	\checkmark					RATING	6	
	ADD/E	ENHA	ANCE CRICKETS		ADD/E	1AH	NCE OVERFLOW				
			CLEAR DRAINS	⋖	ADD GUTTER						
	GUTT	ER F	REPAIR NEEDED		GUTTE	R CC	DATING NEEDED				
PENETRATION		RE	EPAIRS NEEDED						RATING	7	
		RES	EAL/REPAIR ALL		RESEAL/REPAIR SELECT						
		REP	LACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE				
ADDITIONAL	INADE		CTION NEEDED		A D.D.	- EVT					
			ROOF ACCESS AD EQUIPMENT		ADD	EXI	ERNAL LADDER				
MAINTENANCE			DRAINS CLEAN		KEED	\ \ /\T	ERWAYS CLEAN				
MAINTENANCE			UNTIL REROOF		NLLF	VVAI	TRIM TREES				
			OOF OF DEBRIS		Η\	/AC F		V			
			IAT SUSPECTED		HVAC REPAIR NEEDED KEEP SS GUTTERS CLEAR						
LEAKS	E	EVIDE	ENCE OF LEAKS		YES		NO	✓			
ROOF CONDITIO	ON - OVERALL SY	STEN	M RATING		_						
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPO	T REPAIRS ONLY		
POOR					REPLACE OR (COAT	Γ IN 1-2 YEARS - S	SPO	T REPAIRS ONLY		
FAIR							REPLACE OF	R CO	AT IN 3-5 YEARS		
MARGINAL									AT IN 5-10 YEARS		
GOOD									IN 10-15 YEARS		
EXCELLENT					C	NLY			AN 5 YEARS OLD		

REPAIR ALL BLISTERS AND EDGE FLASHING CLOSE TO THE BLISTERS (WORST ON 200). CLEAR DRAINS TO PREVENT EXCESSIVE PONDING AND SUBSEQUENT PREMATURE DETERIORATION OF THE ROOF MEMBRANE.

	BUDGET ESTIMATES
UNDER CONTRACTORS WARRANTY	IMMEDIATE REPAIRS AS RECOMMENDED
\$3,000.00	YEARLY PREVENTIVE MAINENANCE
0	ROOF RECOATING
\$1,245,000.00	ROOF REPLACEMENT

An aerial view of the building - this report is for the blue sections of the main building.





Ensure drains are kept clear in order to prevent excessive ponding.



The photo below shows large blistering that needs repair.







BUILDING	Custodial Room						E		IG SERVICES FOR THE BUILDING ENVE	ELOPE
ROOF SQ FT	850							_		
ROOF CONSTRU	JCTION									
ROOF AGE	2014	\	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	\checkmark	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	\	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY	S	BUR		MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP		GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET		HYPALON							
DRAINAGE	JOSAM	✓	SCUPPERS		GUTTERS		OVER EDGE			
SLOPE	NONE		1:12		2:12		3:12		6:12	
ROOF CONDITIO	DN - RATINGS (1-1	0) aı	nd RECOMMENDA	ATIOI	NS					#
FIELD			EPAIRS NEEDED						RATING	8
		1 (RESEAL SEAMS			DI	EPAIR BLISTERS		SS RATING	
					DF		REPAIR NEEDED			
			AIR SUSPECTED							
	DEOR		RAZE CRACKING				ACE FASTENERS			
							TLE MEMBRANE			
			CESSIVE WEAR		MEMBRAN	IE FI	BERS EXPOSED		5.170.10	
PITCH/POND	_		EPAIRS NEEDED		FIX DECK DEFLECTION				RATING	8
	F		ONDING AREAS SOME PONDING		EXCESSIVE PONDING					
			SOME FONDING		EXCESSIVE POINDING					
FLASHING		RI	EPAIRS NEEDED						RATING	8
	RESEAL/REPAIR ALL				RES	EAL/	REPAIR SELECT		SS RATING	
	RESEA	AL/RI	ECOAT AC DUCT		RE	SEA	L/RECOAT WALL			
	RESI	EAL	WALL FLASHING			RI	EPAIR BLISTERS			
DRAINAGE		RI	EPAIRS NEEDED						RATING	8
	ADD/E	ENHA	ANCE CRICKETS		ADD/EN	1AH	NCE OVERFLOW			
			CLEAR DRAINS				ADD GUTTER			
	GUTT		REPAIR NEEDED		GUTTE	R CC	DATING NEEDED			
PENETRATION			EPAIRS NEEDED						RATING	-
			EAL/REPAIR ALL				REPAIR SELECT			
		KEP	LACE SKYLIGHT		RAISE HEIG	HIV	VHEN POSSIBLE			
ADDITIONAL		,	ACTION NEEDED							
ADDITIONAL	IMPF		E ROOF ACCESS		ADD	FXT	ERNAL LADDER			
			AD EQUIPMENT							
MAINTENANCE			DRAINS CLEAN	_	KEEP	WAT	ERWAYS CLEAN			
	SPOT RE	PAIR	UNTIL REROOF		TRIM TREES					
	CLEA	AR R	OOF OF DEBRIS		HV	/AC F	REPAIR NEEDED			
	H	IAZN	NAT SUSPECTED		KEEP	SS G	SUTTERS CLEAR			
LEAKS	E	EVID	ENCE OF LEAKS		YES		NO	\		
ROOF CONDITIO	ON - OVERALL SY	STE	M RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPO	T REPAIRS ONLY	
POOR					REPLACE OR (COAT	Γ IN 1-2 YEARS - \$	SPO	T REPAIRS ONLY	
FAIR							REPLACE OF	R CO	AT IN 3-5 YEARS	
MARGINAL							REPLACE OR	COA	T IN 5-10 YEARS	
COOD	DEDLACE OD COAT IN 10 15 VEADS									

GOOD

EXCELLENT

THE ROOF IS IN GREAT SHAPE.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$500.00
ROOF RECOATING	0
ROOF REPLACEMENT	\$12,750.00

REPLACE OR COAT IN 10-15 YEARS

ONLY IF ROOF IS LESS THAN 5 YEARS OLD





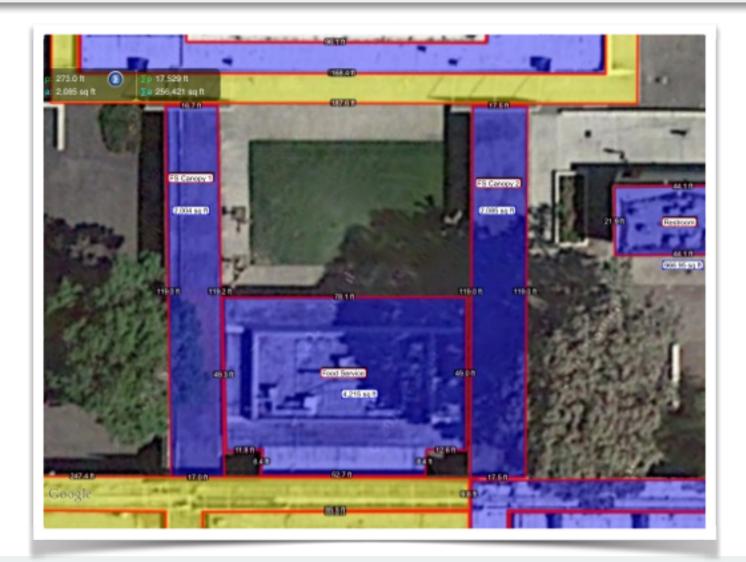




BUILDING	Food Service, FS	Can	opy 1, FS Canopy	/ 2 E N G I N E E R I ENGINEERING SERVICES FOR THE BUILDING						G ELOPE
ROOF SQ FT	8,000							_		4
ROOF CONSTRU	JCTION									
ROOF AGE	1995	✓	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	✓
DECK TYPE	METAL		PLYWOOD		PLANK		CONCRETE	~	LW CONCRETE	
INSULATION	NONE		ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH	_	4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR	_	MOD BIT		TWO SYSTEMS	
			MS CAP		GRAVEL		SMOOTH		GRANULE	
MEM SURFACE	COATING			•	GRAVEL		3000111		GRANULE	
FLASHINGS	CAPSHEET	_	HYPALON		01.7777		0) (55 55 65			
DRAINAGE	JOSAM		SCUPPERS		GUTTERS		OVER EDGE	✓		
SLOPE	1/4 inch	✓	1:12		2:12		3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	0) an	d RECOMMENDA	OITA	NS					#
FIELD		RE	PAIRS NEEDED						RATING	2
			RESEAL SEAMS		REPAIR B	LIST	ERS or RIDGING		SS RATING	
	CLEA	AR RO	OOF OF DEBRIS		DE	CK F	REPAIR NEEDED			
	DECK	REPA	AIR SUSPECTED		RESEAL/F	RPLA	CE FASTENERS			
		CR	AZE CRACKING				TLE MEMBRANE			
			CESSIVE WEAR							
DITCLUDOND					WEWBRAN	NE FII	BERS EXPOSED	•	DATING	1
PITCH/POND	_		EPAIRS NEEDED		ΓIX	/ DE/			RATING	4
	Г		ONDING AREAS SOME PONDING				CK DEFLECTION SSIVE PONDING			
		,	SOME PONDING			ACE.	SSIVE PONDING			
FLASHING									RATING	2
I LASI IING	REPAIRS NEEDED RESEAL/REPAIR ALL				RES	ΕΔΙ /Ι	REPAIR SELECT		SS RATING	
			ECOAT AC DUCT	-			L/RECOAT WALL		001011110	
			WALL FLASHING		112	.0_7 (1	LINEOUNI WINEL			
DRAINAGE	1,120,		EPAIRS NEEDED						RATING	3
	ADD/E		NCE CRICKETS	7	ADD/EI	NHAN	ICE OVERFLOW	~	7.2.11.21.2	
			CLEAR DRAINS		ADD GUTTER					
	GUTT	ER F	REPAIR NEEDED		GUTTE	R CC	DATING NEEDED			
PENETRATION		RE	EPAIRS NEEDED						RATING	3
		RESI	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT			
		REPI	LACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE	\		
ADDITIONAL		А	CTION NEEDED							
	IMPF	ROVE	ROOF ACCESS		ADD	EXT	ERNAL LADDER			
	REMOV	E DE	AD EQUIPMENT							
MAINTENANCE	k	ŒEP	DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
	SPOT RE	PAIR	UNTIL REROOF				TRIM TREES			
	CLEA	AR R	OOF OF DEBRIS		HV	/AC F	REPAIR NEEDED			
	F	IAZM	AT SUSPECTED		KEEP	SS G	UTTERS CLEAR			
LEAKS	E	VIDE	ENCE OF LEAKS		YES		NO			
ROOF CONDITIO	ON - OVERALL SY	STEN	// RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPOT	FREPAIRS ONLY	
POOR					REPLACE OR (COAT	IN 1-2 YEARS - S	SPO	Γ REPAIRS ONLY	
FAIR							REPLACE OF	R CO	AT IN 3-5 YEARS	
MARGINAL							REPLACE OR	COA	T IN 5-10 YEARS	
GOOD							REPLACE OR C	COAT	IN 10-15 YEARS	
EXCELLENT					C	NLY	IF ROOF IS LESS	THA	AN 5 YEARS OLD	
ADDITIONAL NO	TEO									

ROOFS ARE IN VERY POOR CONDITION. ADJACENT CANOPIES RECOMMENDED TO BE INCLUDED IN THE REROOF PROJECT.

IDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$1,500.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$120,000.00



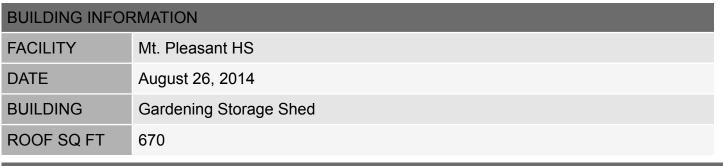


The photo below shows the parapet wall top in bad shape.



The two adjacent canopies are in worse shape than the Kitchen - the membrane gone.







BUILDING	Gardening Storag	E N G I N E E R I N G ENGINEERING SERVICES FOR THE BUILDING ENVELOPE								
ROOF SQ FT	670							_		
ROOF CONSTRU	JCTION									
ROOF AGE	2008	⋖	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	✓	PLANK	✓	CONCRETE		LW CONCRETE	
INSULATION	NONE	⋖	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR	\	MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP	✓	GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET		HYPALON							
DRAINAGE	JOSAM		SCUPPERS		GUTTERS	~	OVER EDGE			
SLOPE	NONE		1:12	✓	2:12		3:12		6:12	
POOF CONDITIO	ON - RATINGS (1-1						_			#
FIELD) - NATINGS (1-1		EPAIRS NEEDED		NO.				RATING	7
FIELD						Б.			SS RATING	,
			RESEAL SEAMS		DE		EPAIR BLISTERS		33 RATING	
			OOF OF DEBRIS				REPAIR NEEDED			
	DECK I		AIR SUSPECTED		RESEAL/F	RPLA	ACE FASTENERS			
		CF	RAZE CRACKING		Ī	3RIT	TLE MEMBRANE			
		EX	CESSIVE WEAR		MEMBRAN	IE FI	BERS EXPOSED			
PITCH/POND		RI	EPAIRS NEEDED						RATING	7
	F		ONDING AREAS			FIX DECK DEFLECTION				
		,	SOME PONDING		EXCESSIVE PONDING					
		D .							DATINIO	-
FLASHING	REPAIRS NEEDED				DEC	□ ∧ 1 /	REPAIR SELECT		RATING SS RATING	5
			EAL/REPAIR ALL ECOAT AC DUCT				L/RECOAT WALL		33 RATING	
			WALL FLASHING		REPAIR BLISTERS					
DRAINAGE			EPAIRS NEEDED						RATING	5
	ADD/E	ENH <i>A</i>	ANCE CRICKETS		ADD/ENHANCE OVERFLOW					
			CLEAR DRAINS		ADD GUTTER					
	GUTT	ER F	REPAIR NEEDED	~	GUTTER COATING NEEDED					
PENETRATION		RI	EPAIRS NEEDED	✓					RATING	5
		RES	EAL/REPAIR ALL	✓	RESEAL/REPAIR SELECT					
		REP	LACE SKYLIGHT		RAISE HEIG	HT V	WHEN POSSIBLE			
ADDITIONAL			ACTION NEEDED							
			ROOF ACCESS		ADD	EXI	TERNAL LADDER			
MAINTENANCE			AD EQUIPMENT DRAINS CLEAN		KEED	\ \ /\T	ERWAYS CLEAN			
MAINTENANCE			UNTIL REROOF		KLLF	VVAI	TRIM TREES			
			OOF OF DEBRIS		Η\	/AC F	REPAIR NEEDED			
			IAT SUSPECTED				GUTTERS CLEAR			
LEAKS	Е	EVIDI	ENCE OF LEAKS		YES		NO	V		
ROOF CONDITIO	ON - OVERALL SY:	STEI	M RATING	-						
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPO	T REPAIRS ONLY	
POOR							Γ IN 1-2 YEARS - S			
FAIR									AT IN 3-5 YEARS	
MARGINAL									T IN 5-10 YEARS	
GOOD									IN 10-15 YEARS	
EXCELLENT					C	NLY	IF ROOF IS LESS			
ADDITIONAL NO	OTES									

RESEAL THE PENETRATIONS AND 3-COURSE THE METAL EDGE DETAIL.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$1,500.00
YEARLY PREVENTIVE MAINENANCE	\$500.00
ROOF RECOATING	0
ROOF REPLACEMENT	\$10,050.00





A portion of the gutter is missing.



Seal the edge metal and exposed fasteners with a 3-course repair.



BUILDING INFORMATION							
FACILITY	Mt. Pleasant HS						
DATE	August 26, 2014						
BUILDING	Gym Canopy						
ROOF SQ FT	6,900						



BUILDING	Gym Canopy						E	NGIVEERIN	G I N E E R I N NG SERVICES FOR THE BUILDING ENVE	LOPE			
ROOF SQ FT	6,900							_					
ROOF CONSTRU	JCTION												
ROOF AGE	UNKNOWN		0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	✓			
DECK TYPE	METAL		PLYWOOD		PLANK		CONCRETE	✓	LW CONCRETE				
INSULATION	NONE	✓	ISO		FIBER		PERLITE		STYRO				
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED				
MEMBRANE	METAL SS		SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS				
MEM SURFACE	COATING		MS CAP	✓	GRAVEL		SMOOTH		GRANULE				
FLASHINGS	CAPSHEET	\	HYPALON										
DRAINAGE	JOSAM		SCUPPERS		GUTTERS		OVER EDGE	√					
SLOPE	1/4 inch	\checkmark	1:12		2:12		3:12		6:12				
ROOF CONDITIO	ON - RATINGS (1-1	0) an	nd RECOMMENDA	ATIOI	NS					#			
FIELD		RE	EPAIRS NEEDED					_	RATING	4			
			RESEAL SEAMS		·	EXTE	ENSIVE RIDGING		SS RATING				
	CLEA	AR RO	OOF OF DEBRIS		DE	CK F	REPAIR NEEDED						
	DECK	REPA	AIR SUSPECTED		RESEAL/F	RPLA	ACE FASTENERS						
		CR	RAZE CRACKING				TLE MEMBRANE						
		EX	CESSIVE WEAR				BERS EXPOSED						
PITCH/POND			EPAIRS NEEDED		WEWEN	.	BEING EAN GOED		RATING	5			
	F	ILL P	ONDING AREAS		FIX	(DE(CK DEFLECTION						
	SOME PONDING				Е	XCE	SSIVE PONDING						
	COME I CIVEIIVO												
FLASHING		RE	PAIRS NEEDED						RATING	5			
		RESI	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT		SS RATING				
			ECOAT AC DUCT		RESEAL/RECOAT WALL								
	RESI		WALL FLASHING										
DRAINAGE	4 D D //		EPAIRS NEEDED		4 D.D./EN	. 11 1 A N	JOE OVEDELOW		RATING	5			
	ADD/E	=INFI/	NCE CRICKETS CLEAR DRAINS		ADD/ENHANCE OVERFLOW ADD GUTTER								
	GUTT	ER F	REPAIR NEEDED		GUTTER COATING NEEDED								
PENETRATION			EPAIRS NEEDED		33112		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		RATING	-			
		RESI	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT						
		REPI	LACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE						
ADDITIONAL		Α	CTION NEEDED										
			ROOF ACCESS		ADD	EXT	ERNAL LADDER						
			AD EQUIPMENT										
MAINTENANCE			DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN						
			UNTIL REROOF OOF OF DEBRIS		ш	/^ C [TRIM TREES REPAIR NEEDED						
			AT SUSPECTED				GUTTERS CLEAR						
LEAKS			ENCE OF LEAKS	7	YES		NO						
	ON - OVERALL SY	_			120								
VERY POOR	JIV - OVERWALE ST	OTEI\	ATTACHNO		REPLACE OR C	СОДТ	IMMEDIATELY - S	SPO.	T REPAIRS ONLY				
POOR							Γ IN 1-2 YEARS - S						
FAIR					THE ENGLOIN								
MARCINAL						REPLACE OR COAT IN 5-10 YEAR							

MARGINAL

EXCELLENT

GOOD

ROOF LOOKS ALRIGHT - RECOMMENDATIONS ARE MADE SOLEY ON THE ESTIMATE OF THE AGE OF THE ROOF. THESE CAP SHEET ROOFS HAVE A LIFESPAN OF AROUND FIFTEEN YEARS AND MAY SIMPLY FAIL AND LEAK - WHILE LOOKING FINE FROM THE SURFACE.

REPLACE OR COAT IN 5-10 YEARS

REPLACE OR COAT IN 10-15 YEARS

ONLY IF ROOF IS LESS THAN 5 YEARS OLD

	BUDGET ESTIMATES
\$0.00	IMMEDIATE REPAIRS AS RECOMMENDED
\$500.00	YEARLY PREVENTIVE MAINENANCE
\$0.00	ROOF RECOATING
\$103,500.00	ROOF REPLACEMENT





The photo below shows perimeter repairs on the roof level



The photo below shows field repairs on the roof level.







DOOL CO ET	45 000						[]	ENGINEERING SERVICES FOR THE BUILDING ENVELOPE				
ROOF SQ FT	15,000											
ROOF CONSTRU												
ROOF AGE	2012		0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS			
DECK TYPE	METAL		PLYWOOD		PLANK		CONCRETE	✓	LW CONCRETE			
INSULATION	NONE		ISO		FIBER		PERLITE		STYRO			
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED			
MEMBRANE	METAL SS		SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS			
MEM SURFACE	COATING	✓	MS CAP	✓	GRAVEL		SMOOTH	✓	GRANULE			
FLASHINGS	CAPSHEET	✓	HYPALON									
DRAINAGE	JOSAM	\	SCUPPERS		GUTTERS		OVER EDGE					
SLOPE	1/4 inch	✓	1:12		2:12		3:12		6:12			
ROOF CONDITIO	ON - RATINGS (1-1	l0) ar	nd RECOMMENDA	ATIOI	NS					#		
FIELD		RI	EPAIRS NEEDED						RATING	8		
			RESEAL SEAMS		I	EXTE	ENSIVE RIDGING		SS RATING			
	CLEA	AR R	OOF OF DEBRIS		DE	CK F	REPAIR NEEDED					
			AIR SUSPECTED		RESEAL/E	RPI A	ACE FASTENERS					
			RAZE CRACKING				TLE MEMBRANE					
			CESSIVE WEAR									
DITCH/DOND					MEMBRAN	NE FI	BERS EXPOSED		DATING			
PITCH/POND	_		EPAIRS NEEDED		FIX	/ DE/			RATING	8		
	F		ONDING AREAS SOME PONDING				CK DEFLECTION SSIVE PONDING					
		,	SOME FONDING			ACE	SSIVE FUNDING					
FLASHING		RI	EPAIRS NEEDED						RATING	8		
1 27 (01 11140			EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT		SS RATING			
			ECOAT AC DUCT				L/RECOAT WALL					
	RES	EAL '	WALL FLASHING									
DRAINAGE		RI	EPAIRS NEEDED						RATING	8		
	ADD/E	ENHA	ANCE CRICKETS		ADD/E	1AH	NCE OVERFLOW					
			CLEAR DRAINS		ADD GUTTER							
	GUTT	ER F	REPAIR NEEDED		GUTTER COATING NEEDED							
PENETRATION		RI	EPAIRS NEEDED						RATING	8		
		RES	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT					
		REP	LACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE					
ADDITIONAL			ACTION NEEDED									
			ROOF ACCESS		ADD	EXT	ERNAL LADDER					
MAINITENIANICE			AD EQUIPMENT		VEED	\						
MAINTENANCE			DRAINS CLEAN UNTIL REROOF		KEEP	VVAI	ERWAYS CLEAN TRIM TREES					
			OOF OF DEBRIS	7	Н\	/Δ <i>C</i> . F	REPAIR NEEDED					
			IAT SUSPECTED				SUTTERS CLEAR					
LEAKS			ENCE OF LEAKS		YES			V				
	ON - OVERALL SY											
VERY POOR	OVERVILL OF				REPLACE OR C	COAT	IMMEDIATELY -	SPO	T REPAIRS ONLY			
POOR									T REPAIRS ONLY			
FAIR					2 (32 0)((. J/ (_		OAT IN 3-5 YEARS			
MARGINAL									AT IN 5-10 YEARS			
WIN WOUNTL							ILLI LAGE OR		IIII O IO ILANO			

GOOD

EXCELLENT

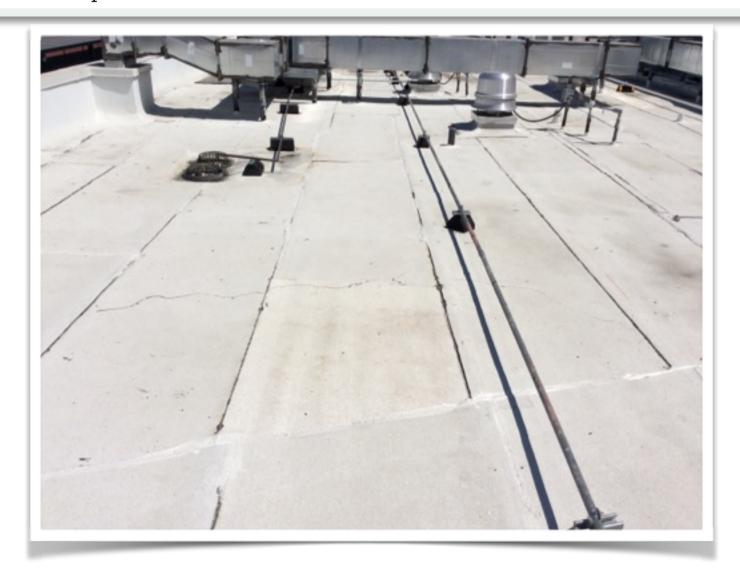
ROOF IS IN EXCELLENT CONDITION.

	BUDGET ESTIMATES
\$0.00	IMMEDIATE REPAIRS AS RECOMMENDED
\$500.00	YEARLY PREVENTIVE MAINENANCE
\$0.00	ROOF RECOATING
\$225,000.00	ROOF REPLACEMENT

REPLACE OR COAT IN 10-15 YEARS

ONLY IF ROOF IS LESS THAN 5 YEARS OLD





Another overview photo from the roof level.









BUILDING	Gym Upper Level						E	N (G I N E E R I N NG SERVICES FOR THE BULDING ENVI	G ELOPE
ROOF SQ FT	13,500							_		
ROOF CONSTRU	JCTION									
ROOF AGE	2013		0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD		PLANK		CONCRETE	√	LW CONCRETE	
INSULATION	NONE		ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR	\	MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING	\checkmark	MS CAP	\	GRAVEL		SMOOTH	√	GRANULE	
FLASHINGS	CAPSHEET	\checkmark	HYPALON							
DRAINAGE	JOSAM		SCUPPERS	\	GUTTERS		OVER EDGE			
SLOPE	1/4 inch	$ \checkmark $	1:12		2:12		3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	0) ar	nd RECOMMENDA	ATIOI	NS					#
FIELD		RE	EPAIRS NEEDED						RATING	8
			RESEAL SEAMS		I	EXTE	ENSIVE RIDGING		SS RATING	
	CLEA	AR R	OOF OF DEBRIS		DE	CK F	REPAIR NEEDED			
	DECK	REPA	AIR SUSPECTED		RESEAL/F	RPLA	ACE FASTENERS			
		CF	RAZE CRACKING		· ·	3RIT	TLE MEMBRANE			
		EX	CESSIVE WEAR		MEMBRAN	IE FI	BERS EXPOSED			
PITCH/POND		RE	EPAIRS NEEDED						RATING	8
	F	ILL P	ONDING AREAS		FIX	(DE	CK DEFLECTION			
		ţ	SOME PONDING		E	XCE	SSIVE PONDING			
FLASHING		RE	EPAIRS NEEDED						RATING	8
		RES	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT		SS RATING	
			ECOAT AC DUCT		RESEAL/RECOAT WALL					
DDAINAGE	RESI		WALL FLASHING						DATINO	0
DRAINAGE	ΔDD/F		EPAIRS NEEDED ANCE CRICKETS		ADD/EN	ЛΗΔΙ	NCE OVERFLOW		RATING	8
	ADDIL	_1 11 17	CLEAR DRAINS		ADD/EI	NI I/AI	ADD GUTTER			
	GUTT	ER F	REPAIR NEEDED		GUTTE	R CO				
PENETRATION		RE	EPAIRS NEEDED						RATING	8
		RES	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT			
		REP	LACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE			
ADDITIONAL			ACTION NEEDED							
			ROOF ACCESS AD EQUIPMENT		ADD	EXI	ERNAL LADDER			
MAINTENANCE			DRAINS CLEAN		KEED	\ / /ΔT	ERWAYS CLEAN			
WAINTENANCE			UNTIL REROOF		INLLI	VVAI	TRIM TREES			
			OOF OF DEBRIS	✓	Η\	/AC F	REPAIR NEEDED			
	H	IAZN	IAT SUSPECTED		KEEP	SS G	SUTTERS CLEAR			
LEAKS	E	EVIDI	ENCE OF LEAKS		YES		NO	✓		
ROOF CONDITIO	ON - OVERALL SY	STE	M RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPO	T REPAIRS ONLY	
POOR					REPLACE OR (COAT	Γ IN 1-2 YEARS - S	SPO	T REPAIRS ONLY	
FAIR							REPLACE OF	R CO	OAT IN 3-5 YEARS	
MARGINAL							REPLACE OR	COA	AT IN 5-10 YEARS	
GOOD							REPLACE OR C	CAT	IN 10-15 YEARS	

EXCELLENT

ROOF IS IN EXCELLENT CONDITION.

	BUDGET ESTIMATES
\$0.00	IMMEDIATE REPAIRS AS RECOMMENDED
\$500.00	YEARLY PREVENTIVE MAINENANCE
\$0.00	ROOF RECOATING
\$202,500.00	ROOF REPLACEMENT

ONLY IF ROOF IS LESS THAN 5 YEARS OLD







The photo below shows the penetration details in great shape.







BUILDING	Health Clinic								E N G I N E E R I N G ENGINEERING SERVICES FOR THE BUILDING ENVELOPE			
ROOF SQ FT	1,700							_				
ROOF CONSTRU	JCTION											
ROOF AGE	1995	⋖	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS			
DECK TYPE	METAL		PLYWOOD	✓	PLANK		CONCRETE		LW CONCRETE			
INSULATION	NONE	✓	ISO		FIBER		PERLITE		STYRO			
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED			
MEMBRANE	METAL SS		SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS			
MEM SURFACE	COATING		MS CAP	~	GRAVEL		SMOOTH		GRANULE			
FLASHINGS	CAPSHEET	\	HYPALON									
DRAINAGE	JOSAM		SCUPPERS		GUTTERS		OVER EDGE					
SLOPE	1/4 inch		1:12		2:12		3:12		6:12			
					_					#		
	ON - RATINGS (1-1				NS				RATING	3		
FIELD			EPAIRS NEEDED		_					J		
			RESEAL SEAMS				ENSIVE RIDGING		SS RATING			
	CLEA	AR R	OOF OF DEBRIS		DE	CK F	REPAIR NEEDED					
	DECK	REP	AIR SUSPECTED		RESEAL/F	RPLA	CE FASTENERS					
		CF	RAZE CRACKING	✓	E	3RIT	TLE MEMBRANE	✓				
		ΕX	CESSIVE WEAR	✓	MEMBRAN	IE FI	BERS EXPOSED					
PITCH/POND		RI	EPAIRS NEEDED						RATING	3		
	F	ILL F	PONDING AREAS		FIX DECK DEFLECTION			✓				
			SOME PONDING		EXCESSIVE PONDING			✓				
										_		
FLASHING	REPAIRS NEEDED								RATING	3		
			EAL/REPAIR ALL				REPAIR SELECT		SS RATING			
			ECOAT AC DUCT WALL FLASHING		RESEAL/RECOAT WALL							
DRAINAGE	RESI		EPAIRS NEEDED						RATING	3		
DIVINACE	ADD/F		ANCE CRICKETS	7	ADD/FI	1AH	NCE OVERFLOW	V	IVALINO	5		
	,,,		CLEAR DRAINS		ADD GUTTER							
	GUTT	ER F	REPAIR NEEDED		GUTTER COATING NEEDED							
PENETRATION		RI	EPAIRS NEEDED						RATING	3		
		RES	EAL/REPAIR ALL		RESEAL/REPAIR SELECT							
		REP	LACE SKYLIGHT		RAISE HEIGHT WHEN POSSIBLE							
ADDITIONAL		P	ACTION NEEDED									
			ROOF ACCESS	_	ADD	EXT	ERNAL LADDER	✓				
	REMOV	E DE	AD EQUIPMENT									
MAINTENANCE			P DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN					
			UNTIL REROOF	✓			TRIM TREES					
			OOF OF DEBRIS				REPAIR NEEDED	V				
LEAKO			MAT SUSPECTED	_		55 G	SUTTERS CLEAR					
LEAKS			ENCE OF LEAKS	•	YES		NO					
	ON - OVERALL SY	STE	M RATING									
VERY POOR									T REPAIRS ONLY			
POOR					REPLACE OR (COAT			T REPAIRS ONLY	✓		
FAIR									OAT IN 3-5 YEARS			
MARGINAL									AT IN 5-10 YEARS			
GOOD									T IN 10-15 YEARS			
EXCELLENT					AN 5 YEARS OLD							

ROOF IS IN BAD SHAPE. JUST ONE NOTCH BETTER THAN THE MECHANICS BUILDING ROOF. THIS ROOF WILL VERY SOON BE A PROBLEM - IF ITS NOT ALREADY.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$1,500.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$25,500.00





The photo below shows how in bad shape the cap flashing is - with many repairs.



The photo below shows the roof in very poor condition.



BUILDING INFORMATION						
FACILITY	Mt. Pleasant HS					
DATE	August 26, 2014					
BUILDING	Pool					
ROOF SQ FT	850					
ROOF CONSTRUCTION						



BUILDING	F 001							NGINEERII	NG SERVICES FOR THE BUILDING ENVE	LOPE
ROOF SQ FT	850									
ROOF CONSTRU	JCTION									
ROOF AGE	UNKNOWN		0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	✓
DECK TYPE	METAL		PLYWOOD		PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	\	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR	\	MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP		GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET	-	HYPALON							
DRAINAGE	JOSAM		SCUPPERS	-	GUTTERS		OVER EDGE			
SLOPE	NONE		1:12	_	2:12		3:12		6:12	
										#
	ON - RATINGS (1-1				N 5				RATING	3
FIELD			EPAIRS NEEDED							3
			RESEAL SEAMS		5.5		EPAIR BLISTERS		SS RATING	
			OOF OF DEBRIS		DE	:CK I	REPAIR NEEDED			
	DECK I	REPA	AIR SUSPECTED		RESEAL/F	RPLA	ACE FASTENERS			
		CR	AZE CRACKING		E	3RIT	TLE MEMBRANE			
		EX	CESSIVE WEAR	✓	MEMBRAN	IE FI	BERS EXPOSED			
PITCH/POND		RE	PAIRS NEEDED						RATING	3
	F	ILL P	ONDING AREAS		FIX	(DE	CK DEFLECTION			
		5	SOME PONDING		E	XCE	SSIVE PONDING			
FLASHING			PAIRS NEEDED						RATING	4
			EAL/REPAIR ALL				REPAIR SELECT		SS RATING	
			ECOAT AC DUCT		RE		L/RECOAT WALL			
DRAINAGE	KESI		WALL FLASHING EPAIRS NEEDED			KI	EPAIR BLISTERS		RATING	3
DIVAINAGE	ΔDD/F		NCE CRICKETS		ADD/EN	ЛΗΔΙ	NCE OVERFLOW	~	NATING	J 3
	, NO DIE	_1 11 1/	CLEAR DRAINS		/\DB/EI	41 17 (1	ADD GUTTER			
	GUTT	ER F	REPAIR NEEDED		GUTTE	R CC	DATING NEEDED			
PENETRATION		RE	PAIRS NEEDED						RATING	3
		RESI	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT			
		REPI	LACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE			
ADDITIONAL		А	CTION NEEDED							
	IMPF	ROVE	ROOF ACCESS		ADD	EXT	ERNAL LADDER			
	REMOV	E DE	AD EQUIPMENT							
MAINTENANCE	K	KEEP	DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
			UNTIL REROOF				TRIM TREES			
			OOF OF DEBRIS				REPAIR NEEDED			
LEAVO			AT SUSPECTED	_		SS G	SUTTERS CLEAR			
LEAKS			ENCE OF LEAKS	•	YES		NO			
	ON - OVERALL SYS	STEN	RATING							
VERY POOR									T REPAIRS ONLY	
POOR					REPLACE OR (COAT	Γ IN 1-2 YEARS -	SPO	T REPAIRS ONLY	✓
FAIR							REPLACE O	R CO	OAT IN 3-5 YEARS	

MARGINAL

EXCELLENT

GOOD

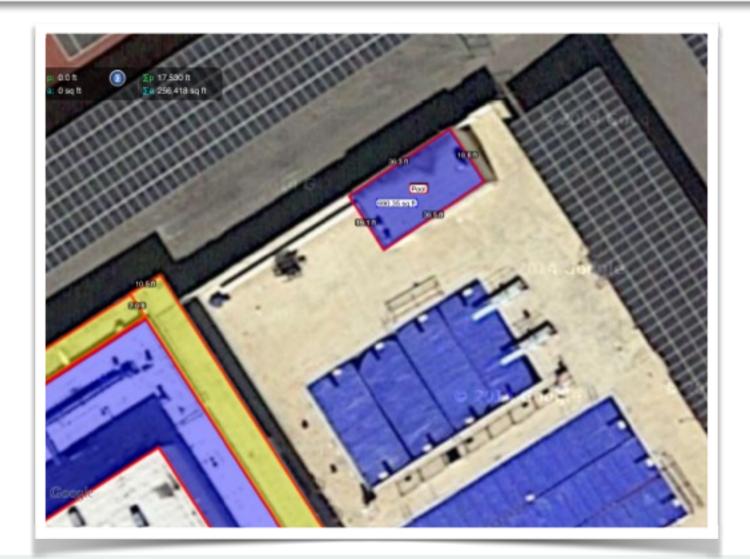
THIS IS AN OLD ROOF WITH MANY REPAIRS. IF IT IS NOT AN IMPORTANT BUILDING, IT COULD BE DELAYED 3-5 YEARS WITH SPOT REPAIRS ONLY. WHENEVER A ROOF REPLACEMENT IS DELAYED THERE IS A RISK OF MOISTURE INFILTRATION AND DECK/BUILDING DAMAGE.

REPLACE OR COAT IN 5-10 YEARS

REPLACE OR COAT IN 10-15 YEARS

ONLY IF ROOF IS LESS THAN 5 YEARS OLD

	BUDGET ESTIMATES
\$0.00	IMMEDIATE REPAIRS AS RECOMMENDED
\$500.00	YEARLY PREVENTIVE MAINENANCE
0	ROOF RECOATING
\$12,750.00	ROOF REPLACEMENT





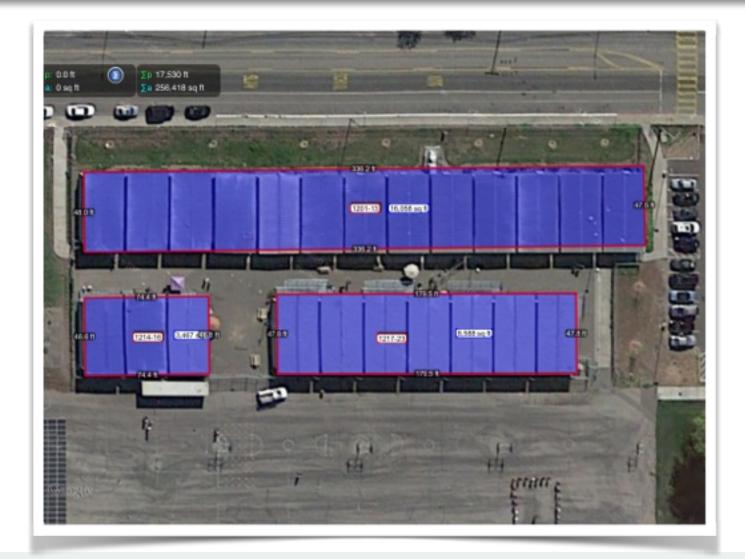


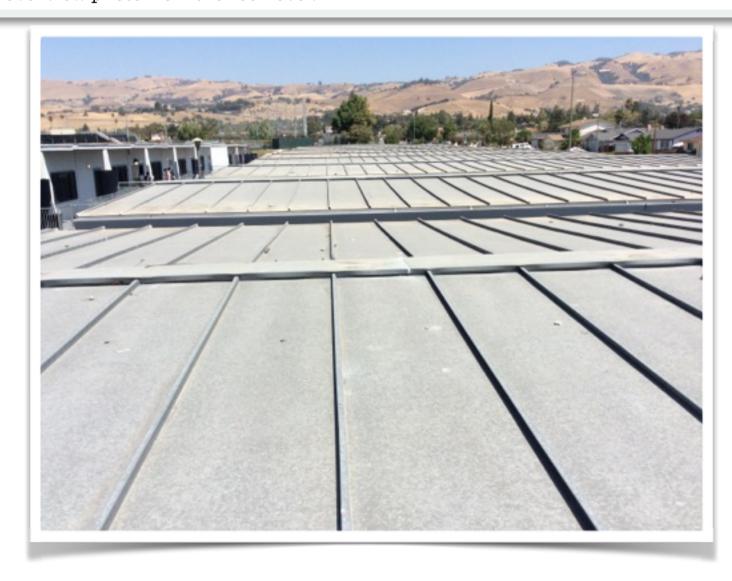


BUILDING	Portables 1201-12	213					E N ENGINEERI	G I N E E R I N NG SERVICES FOR THE BUILDING ENVI	G
ROOF SQ FT	16,000						DIGITEES	TO CENTRED FOR THE DUELDING ENTI	
ROOF CONSTRU	JCTION								
ROOF AGE	UNKNOWN	0-5 YEARS		5-10 YEARS		10-15 YEARS	S	15+ YEARS	
DECK TYPE	METAL	PLYWOOD	✓	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	✓ ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH	2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS	✓ SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING	MS CAP		GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET	HYPALON							
DRAINAGE	JOSAM	SCUPPERS		GUTTERS		OVER EDGE		MISC DRAIN	
SLOPE	NONE	1:12	✓	2:12		3:12	2	6:12	
ROOF CONDITIC	ON - RATINGS (1-1	0) and RECOMMEND	ATIOI	NS					#
FIELD	,	REPAIRS NEEDED						RATING	6
	RF	SEAL RIDGE SEAMS	_		RF	EPAIR BLISTERS			
		AR ROOF OF DEBRIS		DF		REPAIR NEEDED			
		REPAIR SUSPECTED							
	DECK					CE FASTENERS			
		CRAZE CRACKING				TLE MEMBRANE			
		EXCESSIVE WEAR		MEMBRAN	NE FI	BERS EXPOSED			_
PITCH/POND	_	REPAIRS NEEDED						RATING	7
	F	ILL PONDING AREAS		FIX DECK DEFLECTION					
		SOME PONDING		E	XCE	SSIVE PONDING			
FLASHING		REPAIRS NEEDED						RATING	6
ILAGIIING		RESEAL/REPAIR ALL		RES	FAI /	REPAIR SELECT	-	TOTINO	
		AL/RECOAT AC DUCT				L/RECOAT WALI			
		EAL WALL FLASHING				NERS EXPOSED			
DRAINAGE		REPAIRS NEEDED						RATING	5
	ADD/E	ENHANCE CRICKETS		ADD/E	NHAI	NCE OVERFLOW			
		CLEAR DRAINS		ADD GUTTER					
	GUTT	ER REPAIR NEEDED	✓	GUTTE	RCC	DATING NEEDED			
PENETRATION		REPAIRS NEEDED						RATING	-
	1	RESEAL/REPAIR ALL				REPAIR SELECT			
		REPLACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE			
	REG	COMMEND AC CURB							
ADDITIONAL	IMDE	ACTION NEEDED		٨٥٥	CVT	ERNAL LADDEF			
		ROVE ROOF ACCESS E DEAD EQUIPMENT		ADD		ERNAL LADDER			
MAINTENANCE		EEP DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
W article atom		PAIR UNTIL REROOF		IXEEI	**/ (1	TRIM TREES			
		AR ROOF OF DEBRIS		H\	/AC F	REPAIR NEEDED			
	HAZMAT SUSPECTED			KEEP	SS G	UTTERS CLEAF	2		
LEAKS	E	EVIDENCE OF LEAKS		YES		NC	I		
ROOF CONDITIO	ON - OVERALL SYS	STEM RATING							
VERY POOR				REPLACE OR C	COAT	IMMEDIATELY -	SPO	T REPAIRS ONLY	
POOR				REPLACE OR (COAT	IN 1-2 YEARS -	SPO	T REPAIRS ONLY	
FAIR						REPLACE C	R CC	OAT IN 3-5 YEARS	✓
MARGINAL						REPLACE OF	R COA	AT IN 5-10 YEARS	
GOOD						REPLACE OR	COAT	Γ IN 10-15 YEARS	
EXCELLENT				C	NLY	IF ROOF IS LES	S TH	AN 5 YEARS OLD	
ADDITIONAL NO	TEO								

A GALVANIZED STANDING SEAM ROOF WILL BEGIN TO RUST ON AVERAGE IN ABOUT FIVE TO TEN YEARS. BECAUSE OF SUCH LITTLE RAIN IN OUR AREA THIS MAY BE INCREASED - AND WE THINK THIS IS THE CASE HERE. HOWEVER IT WOULD BE PRUDENT TO BUDGET FOR COATING THE SS ROOFS IN THE NEXT THREE TO FIVE YEARS. COATING SYSTEMS HAVE WARRANTIES OF UP TO FIFTEEN YEARS.

	BUDGET ESTIMATES
\$7,000.00	IMMEDIATE REPAIRS AS RECOMMENDED
\$500.00	YEARLY PREVENTIVE MAINENANCE
\$160,000.00	ROOF RECOATING
\$0.00	ROOF REPLACEMENT



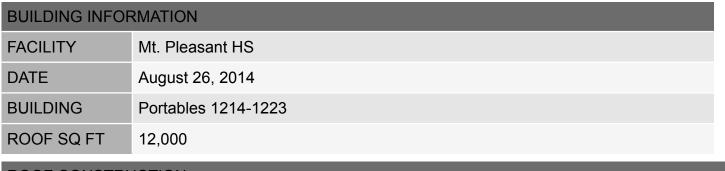


The photo below shows galvanized metal field in good shape.



The photo below shows the gutter in need of some repair.







BUILDING	Portables 1214-12	223					E		IG SERVICES FOR THE BUILDING ENVE	LOPE
ROOF SQ FT	12,000							_		
ROOF CONSTRU	JCTION									
ROOF AGE	UNKNOWN		0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	~	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	✓	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS	✓	SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP		GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET		HYPALON							
DRAINAGE	JOSAM		SCUPPERS		GUTTERS	✓	OVER EDGE		MISC DRAIN	
SLOPE	NONE		1:12	⋖	2:12		3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	0) ar	nd RECOMMENDA	ATIOI	NS					#
FIELD			EPAIRS NEEDED			_		_	RATING	4
	RESEAL		G JOINT SEAMS	_		RI	EPAIR BLISTERS			
			OOF OF DEBRIS		DE		REPAIR NEEDED			
			AIR SUSPECTED				ACE FASTENERS			
	DEOR		RAZE CRACKING							
							TLE MEMBRANE			
			CESSIVE WEAR		MEMBRAN	NE FI	BERS EXPOSED			
PITCH/POND	REPAIRS NEEDED				FIX	<i>(</i> DE			RATING	7
	FILL PONDING AREAS SOME PONDING						CK DEFLECTION SSIVE PONDING			
		•	SOME PONDING			ACE	SSIVE PUNDING			
FLASHING		RF	EPAIRS NEEDED						RATING	5
T E/KOT III VO	RESEAL/REPAIR ALL				RES	EAL/	REPAIR SELECT		10,11110	
			ECOAT AC DUCT				L/RECOAT WALL			
	RESI	EAL \	WALL FLASHING		EDGE FASTENERS EXPOSED					
DRAINAGE		RE	EPAIRS NEEDED						RATING	5
	ADD/E	ENHA	ANCE CRICKETS		ADD/E	IAH	NCE OVERFLOW			
			CLEAR DRAINS				ADD GUTTER			
	GUTT	ER F	REPAIR NEEDED		GUTTE	R C	DATING NEEDED			
PENETRATION		RE	EPAIRS NEEDED						RATING	-
		RES	EAL/REPAIR ALL		RESEAL/REPAIR SELECT					
			LACE SKYLIGHT		RAISE HEIGHT WHEN POSSIBLE					
	RE:		MEND AC CURB							
ADDITIONAL	IMDE		CTION NEEDED		ADD	CVI				
			ROOF ACCESS AD EQUIPMENT		ADD		TERNAL LADDER			
MAINTENANCE					KEEP	\ \ /∆T	ERWAYS CLEAN			
W W W W W W W W W W W W W W W W W W W	KEEP DRAINS CLEAN SPOT REPAIR UNTIL RECOAT			7	KEEI	V V / (1	TRIM TREES			
			OOF OF DEBRIS		ΗV	/AC I	REPAIR NEEDED			
	H	IAZIV	IAT SUSPECTED		KEEP	SS G	GUTTERS CLEAR	✓		
LEAKS	E	VIDI	ENCE OF LEAKS		YES		NO	✓		
ROOF CONDITION	ON - OVERALL SYS	STEN	M RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPO	Γ REPAIRS ONLY	
POOR					REPLACE OR (COA	T IN 1-2 YEARS - S	SPO	Γ REPAIRS ONLY	✓
FAIR							REPLACE OF	R CO	AT IN 3-5 YEARS	
MARGINAL							REPLACE OR	COA	T IN 5-10 YEARS	

GOOD

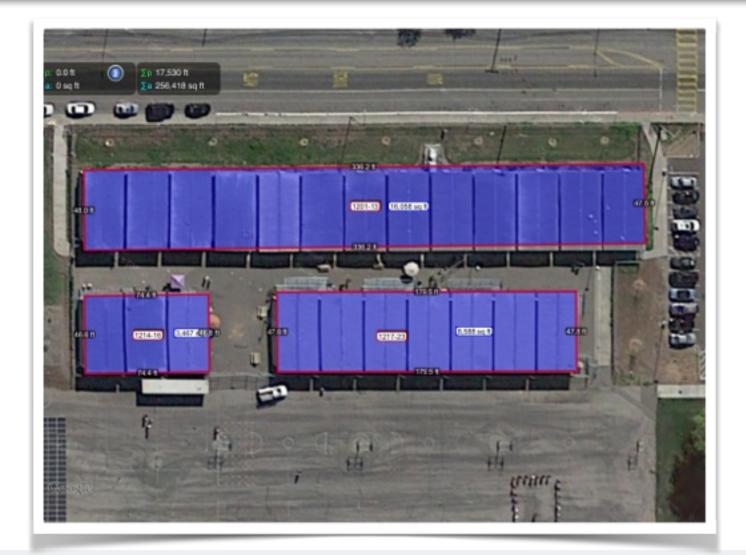
EXCELLENT

THIS STANDING SEAM METAL ROOF IS JUST STARTING TO SHOW SIGNS OF RUST. SPOT REPAIR ONLY AND BUDGET TO COAT THIS GROUP OF PORTABLES. COATING SYSTEMS HAVE WARRANTIES OF UP TO FIFTEEN YEARS.

REPLACE OR COAT IN 10-15 YEARS

ONLY IF ROOF IS LESS THAN 5 YEARS OLD

	BUDGET ESTIMATES
\$0.00	IMMEDIATE REPAIRS AS RECOMMENDED
\$500.00	YEARLY PREVENTIVE MAINENANCE
\$120,000.00	ROOF RECOATING
\$0.00	ROOF REPLACEMENT

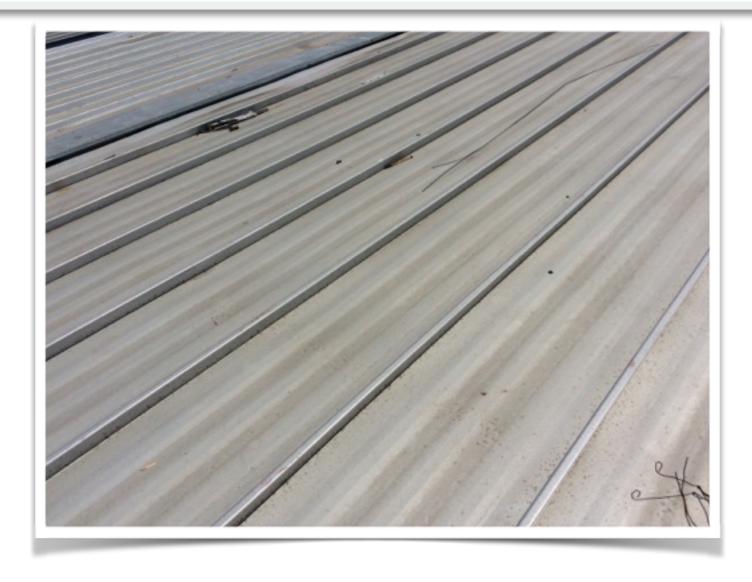




The photo below shows small amounts of rust forming in the field.



The photo below shows a close up of the panels.



BUILDING INFORMATION						
FACILITY	Mt. Pleasant HS					
DATE	August 26, 2014					
BUILDING	Pressbox					
ROOF SQ FT	270					
DOOF CONCEDI	ICTION					



BUILDING	Pressbox						Ē	N	G I N E E R I N NG SERVICES FOR THE BUILDING ENVI	G
ROOF SQ FT	270							NUNCCON	to delines roll the building Line	LOVE
ROOF CONSTRU	JCTION									
ROOF AGE	2005	⋖	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	✓	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	⋖	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL FLAT	4	SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING	✓	MS CAP		GRAVEL		SMOOTH	✓	GRANULE	
FLASHINGS	CAPSHEET		HYPALON							
DRAINAGE	JOSAM		SCUPPERS		GUTTERS		OVER EDGE	√		
SLOPE	SLIGHT	\	1:12		2:12		3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	0) ar	nd RECOMMENDA	ATIOI	NS					#
FIELD		RI	EPAIRS NEEDED						RATING	7
			RESEAL SEAMS			RE	EPAIR BLISTERS			
	CLEA	AR R	OOF OF DEBRIS		DE	CK F	REPAIR NEEDED			
	DECK	REPA	AIR SUSPECTED		RESEAL/F	RPLA	CE FASTENERS			
		CF	RAZE CRACKING		Ε	BRIT	TLE MEMBRANE			
		EX	CESSIVE WEAR		MEMBRAN	IE FII	BERS EXPOSED			
PITCH/POND		RI	EPAIRS NEEDED						RATING	7
	F	ILL F	ONDING AREAS		FIX	DE	CK DEFLECTION			
	SOME PONDING				E	XCE:	SSIVE PONDING			
FLASHING	REPAIRS NEEDED								RATING	7
			EAL/REPAIR ALL				REPAIR SELECT			
			ECOAT AC DUCT		RE		L/RECOAT WALL			
DRAINAGE	KESI		WALL FLASHING EPAIRS NEEDED			K	EPAIR BLISTERS		RATING	7
DIV III VIOL	ADD/E		ANCE CRICKETS		ADD/EN	1AH	ICE OVERFLOW		1001110	'
			CLEAR DRAINS				ADD GUTTER			
	GUTT	ER F	REPAIR NEEDED		GUTTE	R CC	DATING NEEDED			
PENETRATION		RI	EPAIRS NEEDED						RATING	-
		RES	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT			
		REP	LACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE			
ADDITIONAL			OTION MEEDED							
ADDITIONAL	IMDE		CTION NEEDED ROOF ACCESS		ADD	EVT	ERNAL LADDER			
			AD EQUIPMENT		ADD		ERNAL LADDER			
MAINTENANCE			DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
	SPOT RE	PAIR	UNTIL REROOF				TRIM TREES			
	CLEA	AR R	OOF OF DEBRIS		HV	AC F	REPAIR NEEDED			
	H	IAZN	IAT SUSPECTED		KEEP	SS G	UTTERS CLEAR			
LEAKS	E	VIDI	ENCE OF LEAKS		YES		NO	✓		
ROOF CONDITIO	ON - OVERALL SY	STE	M RATING							
VERY POOR					REPLACE OR C	CAT	IMMEDIATELY - S	SPO	T REPAIRS ONLY	
POOR					REPLACE OR (COAT	IN 1-2 YEARS - S	SPO	T REPAIRS ONLY	
FAIR							REPLACE OF	R CO	AT IN 3-5 YEARS	✓
MARGINAL							REPLACE OR	COA	T IN 5-10 YEARS	
GOOD						REPLACE OR (COAT	IN 10-15 YEARS		

EXCELLENT

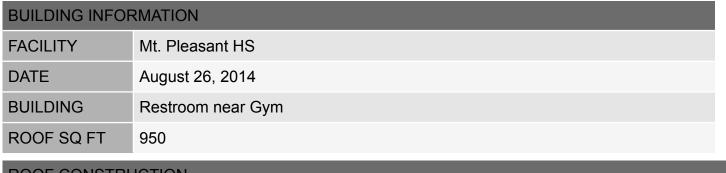
THE COATING LOOKS GOOD. NO PEALING OR RUST NOTICED. IT SHOULD HOWEVER BE RECOATED IN THREE TO FIVE YEARS.

ONLY IF ROOF IS LESS THAN 5 YEARS OLD

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$0.00
ROOF RECOATING	0
ROOF REPLACEMENT	\$4,050.00









REPLACE OR COAT IN 5-10 YEARS

REPLACE OR COAT IN 10-15 YEARS

ONLY IF ROOF IS LESS THAN 5 YEARS OLD

BUILDING	Restroom near G	ym					t E	N NGIVEERII	G I N t t K I N NG SERVICES FOR THE BUILDING ENVE	ELOPE
ROOF SQ FT	950							_		
ROOF CONSTRU	JCTION									
ROOF AGE	1995	⋖	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	✓	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	⋖	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR	✓	MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING		MS CAP	✓	GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET	⋖	HYPALON							
DRAINAGE	JOSAM	✓	SCUPPERS		GUTTERS		OVER EDGE		MISC DRAIN	~
SLOPE	NONE		1:12	\	2:12		3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	0) an	d RECOMMENDA	ATIOI	NS	i				#
FIELD			PAIRS NEEDED						RATING	3
			RESEAL SEAMS			RI	EPAIR BLISTERS		SS RATING	
	CI E/		OOF OF DEBRIS		DE		REPAIR NEEDED			
			IR SUSPECTED				ACE FASTENERS			
	BEOK		AZE CRACKING							
							TLE MEMBRANE			
			CESSIVE WEAR	✓	MEMBRAN	IE FI	BERS EXPOSED		5.170.10	
PITCH/POND	_		PAIRS NEEDED		EIX	, DE			RATING	3
	FILL PONDING AREAS				FIX DECK DEFLECTION EXCESSIVE PONDING					
		3	SOME PONDING		E	XCE	SSIVE PUNDING			
FLASHING		RF	PAIRS NEEDED						RATING	3
1 L/ (O) III (O			EAL/REPAIR ALL	-	RES	EAL/	REPAIR SELECT		SS RATING	
	RESEA	AL/RE	COAT AC DUCT				L/RECOAT WALL			
	RESI	EAL V	VALL FLASHING		EDGE FA	STE	NERS EXPOSED			
DRAINAGE		RE	PAIRS NEEDED						RATING	3
	ADD/E	ENHA	NCE CRICKETS	\	ADD/E	IAH	NCE OVERFLOW	√		
			CLEAR DRAINS		ADD GUTTER					
	GUTT	ER R	REPAIR NEEDED		GUTTE	R CC	DATING NEEDED			
PENETRATION		RE	PAIRS NEEDED						RATING	3
			EAL/REPAIR ALL	✓			REPAIR SELECT			
			ACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE			
ADDITIONAL	RE		MEND AC CURB							
ADDITIONAL	IMDE		CTION NEEDED ROOF ACCESS		ADD	EVT	ERNAL LADDER			
			AD EQUIPMENT		ADD		ERNAL LADDER			
MAINTENANCE			DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
W W W C C C C C C C C C C C C C C C C C			UNTIL REROOF	7	IXEE!	• • • • • • • • • • • • • • • • • • • •	TRIM TREES			
			OOF OF DEBRIS	_	ΗV	/AC F	REPAIR NEEDED			
	H	IAZM	AT SUSPECTED		KEEP	SS G	SUTTERS CLEAR			
LEAKS	E	EVIDE	ENCE OF LEAKS		YES		NO	✓		
ROOF CONDITIO	ON - OVERALL SY	STEM	1 RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPO	T REPAIRS ONLY	
POOR									T REPAIRS ONLY	~
FAIR									OAT IN 3-5 YEARS	
MARGINAL									AT IN 5-10 YEARS	

ADDITIONAL NOTES

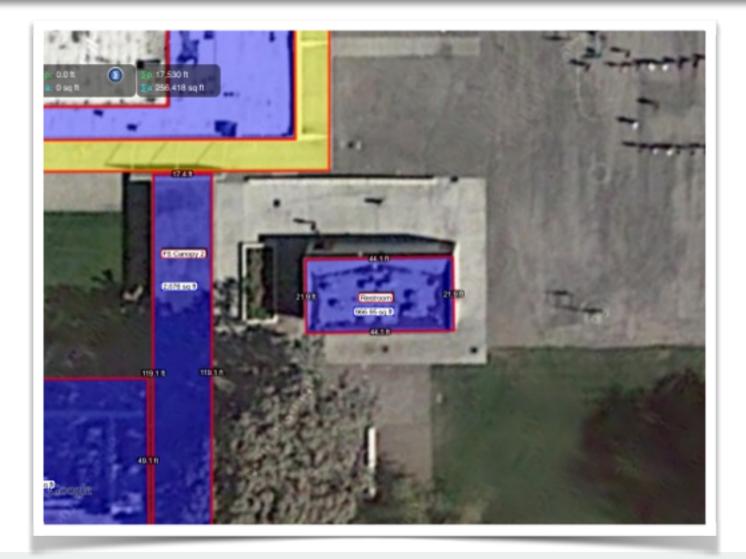
MARGINAL

EXCELLENT

GOOD

ROOF IS VISUALLY IN ALRIGHT CONDITION. RATING IS SOLEY BASED ON THE ESTIMATED AGE OF THE ROOF. AT TWENTY YEARS OLD THE SYSTEM COULD SIMPLY FAIL AT ANY TIME. SPOT REPAIR AND BUDGET TO REPLACE.

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$0.00
YEARLY PREVENTIVE MAINENANCE	\$750.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$14,250.00





The photo below shows some ponding problems.



The photo below shows that all penetration details are failing - mastic on corners.





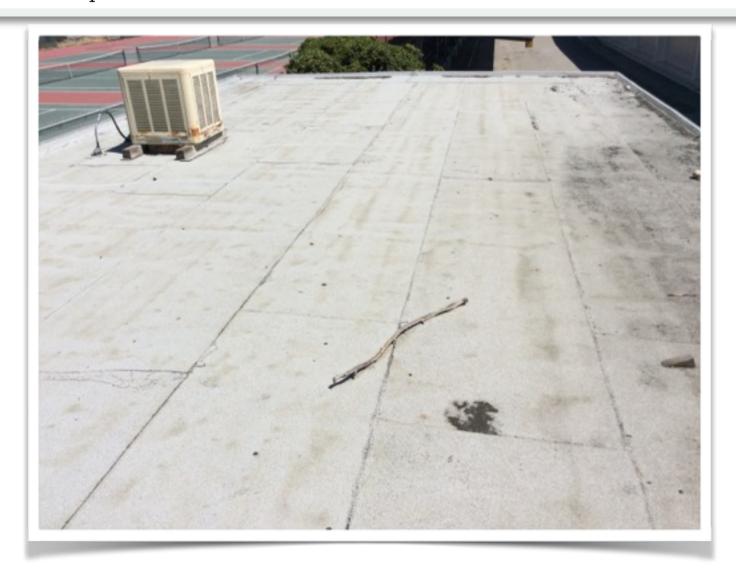


ROOF CONSTRUCTION ROOF AGE FOR SAME FOR SA	BUILDING	Snack Bar - possi	bly n	amed Kitchen				Ē	NGIVEERIN	G I N E E R I N NG SERVICES FOR THE BUILDING ENVE	G ELOPE
ROOF AGE 2000	ROOF SQ FT	950							_		
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MAINTENANCE KEEP DRAINS CLEAN KEEP WATERWAYS CLEAN SPOT REPAIR UNTIL REROOF TRIM TREES CLEAR ROOF OF DEBRIS HVAC REPAIR NEEDED HAZMAT SUSPECTED KEEP SS GUTTERS CLEAR LEAKS EVIDENCE OF LEAKS YES NO ROOF CONDITION - OVERALL SYSTEM RATING VERY POOR REPLACE OR COAT IMMEDIATELY - SPOT REPAIRS ONLY POOR REPLACE OR COAT IN 1-2 YEARS - SPOT REPAIRS ONLY FAIR REPLACE OR COAT IN 3-5 YEARS MARGINAL REPLACE OR COAT IN 5-10 YEARS GOOD REPLACE OR COAT IN 10-15 YEARS		IMPF	ROVE	ROOF ACCESS		ADD	EXT	ERNAL LADDER			
SPOT REPAIR UNTIL REROOF CLEAR ROOF OF DEBRIS HVAC REPAIR NEEDED HAZMAT SUSPECTED KEEP SS GUTTERS CLEAR NO LEAKS EVIDENCE OF LEAKS YES NO ROOF CONDITION - OVERALL SYSTEM RATING VERY POOR REPLACE OR COAT IMMEDIATELY - SPOT REPAIRS ONLY POOR REPLACE OR COAT IN 1-2 YEARS - SPOT REPAIRS ONLY FAIR REPLACE OR COAT IN 3-5 YEARS MARGINAL REPLACE OR COAT IN 5-10 YEARS GOOD REPLACE OR COAT IN 10-15 YEARS		REMOV	E DE	AD EQUIPMENT							
CLEAR ROOF OF DEBRIS HVAC REPAIR NEEDED HAZMAT SUSPECTED KEEP SS GUTTERS CLEAR SEVIDENCE OF LEAKS YES NO FOR REPLACE OR COAT IMMEDIATELY - SPOT REPAIRS ONLY POOR REPLACE OR COAT IN 1-2 YEARS - SPOT REPAIRS ONLY FAIR REPLACE OR COAT IN 3-5 YEARS MARGINAL REPLACE OR COAT IN 5-10 YEARS GOOD REPLACE OR COAT IN 10-15 YEARS	MAINTENANCE	k	KEEP	DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
HAZMAT SUSPECTED KEEP SS GUTTERS CLEAR LEAKS EVIDENCE OF LEAKS YES NO ROOF CONDITION - OVERALL SYSTEM RATING VERY POOR REPLACE OR COAT IMMEDIATELY - SPOT REPAIRS ONLY POOR REPLACE OR COAT IN 1-2 YEARS - SPOT REPAIRS ONLY FAIR REPLACE OR COAT IN 3-5 YEARS MARGINAL REPLACE OR COAT IN 5-10 YEARS GOOD REPLACE OR COAT IN 10-15 YEARS		SPOT RE	PAIR	UNTIL REROOF	\checkmark			TRIM TREES			
ROOF CONDITION - OVERALL SYSTEM RATING VERY POOR REPLACE OR COAT IMMEDIATELY - SPOT REPAIRS ONLY POOR REPLACE OR COAT IN 1-2 YEARS - SPOT REPAIRS ONLY FAIR REPLACE OR COAT IN 3-5 YEARS MARGINAL REPLACE OR COAT IN 5-10 YEARS GOOD REPLACE OR COAT IN 10-15 YEARS		CLEA	AR R	OOF OF DEBRIS		ΗV	/AC F	REPAIR NEEDED			
ROOF CONDITION - OVERALL SYSTEM RATING VERY POOR REPLACE OR COAT IMMEDIATELY - SPOT REPAIRS ONLY POOR REPLACE OR COAT IN 1-2 YEARS - SPOT REPAIRS ONLY FAIR REPLACE OR COAT IN 3-5 YEARS MARGINAL REPLACE OR COAT IN 5-10 YEARS GOOD REPLACE OR COAT IN 10-15 YEARS		F	IAZN	NAT SUSPECTED		KEEP SS GUTTERS CLEAR					
VERY POOR REPLACE OR COAT IMMEDIATELY - SPOT REPAIRS ONLY POOR REPLACE OR COAT IN 1-2 YEARS - SPOT REPAIRS ONLY FAIR REPLACE OR COAT IN 3-5 YEARS MARGINAL REPLACE OR COAT IN 5-10 YEARS GOOD REPLACE OR COAT IN 10-15 YEARS	LEAKS	E	EVIDI	ENCE OF LEAKS		YES		NO	✓		
POOR REPLACE OR COAT IN 1-2 YEARS - SPOT REPAIRS ONLY FAIR REPLACE OR COAT IN 3-5 YEARS MARGINAL REPLACE OR COAT IN 5-10 YEARS GOOD REPLACE OR COAT IN 10-15 YEARS	ROOF CONDITIO	ON - OVERALL SY	STE	M RATING							
FAIR REPLACE OR COAT IN 3-5 YEARS MARGINAL REPLACE OR COAT IN 5-10 YEARS GOOD REPLACE OR COAT IN 10-15 YEARS	VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPO	T REPAIRS ONLY	
MARGINAL GOOD REPLACE OR COAT IN 5-10 YEARS REPLACE OR COAT IN 10-15 YEARS	POOR					REPLACE OR (COAT	Γ IN 1-2 YEARS - S	SPO	T REPAIRS ONLY	✓
GOOD REPLACE OR COAT IN 10-15 YEARS	FAIR							REPLACE OF	R CO	AT IN 3-5 YEARS	
	MARGINAL							REPLACE OR	COA	T IN 5-10 YEARS	
EXCELLENT ONLY IF ROOF IS LESS THAN 5 YEARS OLD	GOOD							REPLACE OR C	COAT	IN 10-15 YEARS	
	EXCELLENT					O	NLY	IF ROOF IS LESS	THA	AN 5 YEARS OLD	

ROOF IS IN BAD SHAPE. SPOT REPAIR AND BUDGET TO REPLACE. ALL ROOF DETAILS NEED TO BE REDESIGNED - FLASHINGS, DRAINAGE.

	BUDGET ESTIMATES
\$0.00	IMMEDIATE REPAIRS AS RECOMMENDED
\$750.00	YEARLY PREVENTIVE MAINENANCE
\$0.00	ROOF RECOATING
\$14,250.00	ROOF REPLACEMENT

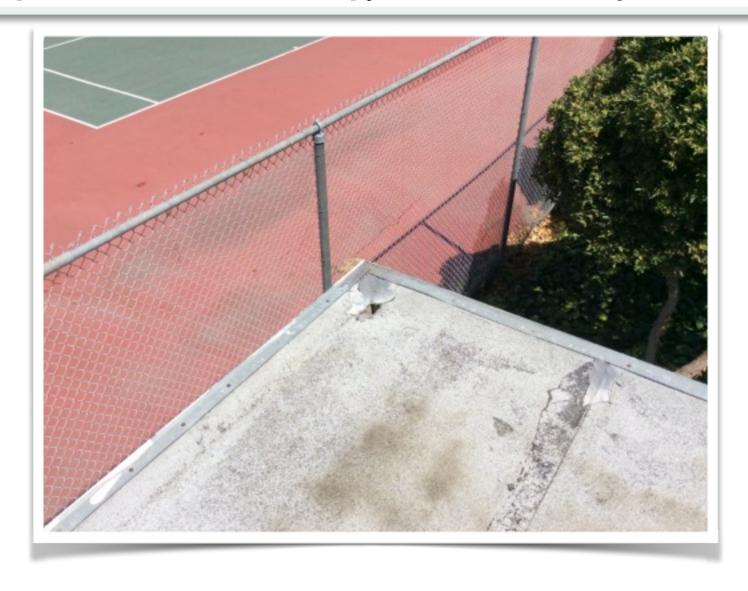




The photo below shows excessive ponding - cricket enhancement is necessary.



The photo below shows the drains - or simply holes in the roof. A redesign is needed.



BUILDING INFORMATION						
FACILITY	Mt. Pleasant HS					
DATE	August 26, 2014					
BUILDING	Theater					
ROOF SQ FT	16,000					



BUILDING	Theater						E	N (G I N E E R I N IG SERVICES FOR THE BUILDING ENVI	G ELOPE
ROOF SQ FT	16,000							_		
ROOF CONSTRU	JCTION									
ROOF AGE	2007	✓	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	✓	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE		ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL SS		SINGLE PLY		BUR		MOD BIT		TWO SYSTEMS	
MEM SURFACE	COATING	✓	MS CAP	✓	GRAVEL		SMOOTH	✓	GRANULE	
FLASHINGS	CAPSHEET	\	HYPALON							
DRAINAGE	JOSAM	✓	SCUPPERS		GUTTERS	✓	OVER EDGE			
SLOPE	1/4 inch		1:12		2:12		3:12		6:12	
ROOF CONDITIC	DN - RATINGS (1-1	0) an	d RECOMMENDA	OITA	NS					#
FIELD	,		PAIRS NEEDED						RATING	8
			RESEAL SEAMS			=XTF	NSIVE RIDGING		SS RATING	
	CLEA		OOF OF DEBRIS				REPAIR NEEDED			
			AIR SUSPECTED				CE FASTENERS			
			AZE CRACKING				TLE MEMBRANE			
			CESSIVE WEAR				BERS EXPOSED			
PITCH/POND			EPAIRS NEEDED		IVICIVIDRAIN	NE FII	DEKS EXPUSED		RATING	5
FITCH/FOND	F		ONDING AREAS		FIX	(DE(CK DEFLECTION		RATING	J
	·		SOME PONDING				SSIVE PONDING	I		
FLASHING		RE	PAIRS NEEDED						RATING	8
		RESI	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT		SS RATING	
	RESEA	AL/RE	COAT AC DUCT		RE	SEA	L/RECOAT WALL			
	RESI	EAL \	WALL FLASHING							
DRAINAGE		RE	PAIRS NEEDED						RATING	5
	ADD/E	ENHA	NCE CRICKETS		ADD/EN	1AH	ICE OVERFLOW			
	CLITT	TD F	CLEAR DRAINS	Y	CUTTE	D CC	ADD GUTTER			
PENETRATION	GUTT		EPAIR NEEDED EPAIRS NEEDED		GUITE	R CC	DATING NEEDED		RATING	8
LIVETTOTTOT			EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT		1011110	
			ACE SKYLIGHT				VHEN POSSIBLE			
ADDITIONAL		А	CTION NEEDED							
	IMPF	ROVE	ROOF ACCESS		ADD	EXT	ERNAL LADDER			
	REMOV	E DE	AD EQUIPMENT							
MAINTENANCE			DRAINS CLEAN		KEEP	WAT	ERWAYS CLEAN			
			UNTIL REROOF			<i>.</i>	TRIM TREES			
			OOF OF DEBRIS				REPAIR NEEDED			
LEAKS			AT SUSPECTED ENCE OF LEAKS		YES	55 G	UTTERS CLEAR NO			
		_			160		INO	•		_
	ON - OVERALL SYS	STEN	A RATING)	INANAEDIATELY (2007		
VERY POOR									F REPAIRS ONLY	
POOR					REPLACE OR (JUAI	IN 1-2 YEARS - S			
FAIR									AT IN 3-5 YEARS	
MARGINAL									T IN 5-10 YEARS	
GOOD							REPLACE OR C	UAI	IN 10-15 YEARS	

EXCELLENT

CLEAR SLOW MOVING DRAINS IN ORDER TO PREVENT PONDING AND PREMATURE ROOF DETERIORATION.

ONLY IF ROOF IS LESS THAN 5 YEARS OLD

BUDGET ESTIMATES	
IMMEDIATE REPAIRS AS RECOMMENDED	\$2,000.00
YEARLY PREVENTIVE MAINENANCE	\$1,500.00
ROOF RECOATING	\$0.00
ROOF REPLACEMENT	\$240,000.00





Another overview photo from the roof level.



Clear this slow moving drain to prevent ponding - mid level school side.







BUILDING	Ticket and Stadiu	m And	cillary - One Buildi	ng			Ē	N (S I N E E R I N IS SERVICES FOR THE BUILDING ENVE	G
ROOF SQ FT	1,900									
ROOF CONSTRU	JCTION									
ROOF AGE	2001	✓	0-5 YEARS		5-10 YEARS		10-15 YEARS		15+ YEARS	
DECK TYPE	METAL		PLYWOOD	✓	PLANK		CONCRETE		LW CONCRETE	
INSULATION	NONE	⋖	ISO		FIBER		PERLITE		STYRO	
INSUL THICK	1 INCH		2 INCH		3 INCH		4 INCH		TAPERED	
MEMBRANE	METAL FLAT		SINGLE PLY		BUR		MOD BIT		SHINGLE	\
MEM SURFACE	COATING		MS CAP		GRAVEL		SMOOTH		GRANULE	
FLASHINGS	CAPSHEET		HYPALON		SHEET METAL	✓				
DRAINAGE	JOSAM		SCUPPERS		GUTTERS	✓	OVER EDGE			
SLOPE	SLIGHT		1:12		2:12	⋖	3:12		6:12	
ROOF CONDITIO	ON - RATINGS (1-1	0) an	d RECOMMENDA	1OITA	NS					#
FIELD			PAIRS NEEDED						RATING	7
1122			RESEAL SEAMS			DI	EPAIR BLISTERS			
					ne		REPAIR NEEDED			
			OOF OF DEBRIS							
	DECK		IR SUSPECTED				CE FASTENERS			
			AZE CRACKING		[3RIT	TLE MEMBRANE			
		EX	CESSIVE WEAR		MEMBRAN	IE FII	BERS EXPOSED			
PITCH/POND			PAIRS NEEDED						RATING	7
	F		ONDING AREAS				CK DEFLECTION			
		5	SOME PONDING		E	XCE:	SSIVE PONDING			
FLASHING		DE	PAIRS NEEDED						RATING	7
FLASHING			EAL/REPAIR ALL		RES	ΕΔΙ /	REPAIR SELECT		RATING	1
			COAT AC DUCT				L/RECOAT WALL			
			VALL FLASHING		1 (EPAIR BLISTERS			
DRAINAGE		RE	PAIRS NEEDED						RATING	7
	ADD/E	ENHA	NCE CRICKETS		ADD/E	NHAN	NCE OVERFLOW			
			CLEAR DRAINS				ADD GUTTER			
	GUTT	ER R	EPAIR NEEDED		GUTTE	R CC	DATING NEEDED			
PENETRATION		RE	PAIRS NEEDED						RATING	7
		RESE	EAL/REPAIR ALL		RES	EAL/	REPAIR SELECT			
		REPL	ACE SKYLIGHT		RAISE HEIG	HT V	VHEN POSSIBLE			
ADDITIONAL			CTION NEEDED		400	->/-				
			ROOF ACCESS		ADD	EXI	ERNAL LADDER			
MAINTENANCE			AD EQUIPMENT DRAINS CLEAN		KEED	\ \ /\T	ERWAYS CLEAN			
WAINTENANCE			UNTIL REROOF		KLLI	VVAI	TRIM TREES			
			OOF OF DEBRIS		HV	/AC F	REPAIR NEEDED			
			AT SUSPECTED				SUTTERS CLEAR			
LEAKS	E	EVIDE	NCE OF LEAKS		YES		NO	✓		
ROOF CONDITIO	ON - OVERALL SY:	STFM	1 RATING							
VERY POOR					REPLACE OR C	COAT	IMMEDIATELY - S	SPOT	Γ REPAIRS ONLY	
POOR									Γ REPAIRS ONLY	
FAIR									AT IN 3-5 YEARS	
MARGINAL									T IN 5-10 YEARS	
GOOD									IN 10-15 YEARS	
EXCELLENT					O	NLY	IF ROOF IS LESS			
ADDITIONAL NO	TES									

THE SHINGLE SYSTEM LOOKS GOOD AND SHOULD LAST ANOTHER TEN PLUS YEARS.

	BUDGET ESTIMATES
\$0.0	IMMEDIATE REPAIRS AS RECOMMENDED
\$500.0	YEARLY PREVENTIVE MAINENANCE
G	ROOF RECOATING
\$28,500.0	ROOF REPLACEMENT



