TOWN OF HEBRON CAPITAL IMPROVEMENT PROGRAM FY 2024-2025 TOWN MANAGER PROPOSED MARCH 1, 2024

Priority	Project	Amount
	Road Resurfacing and Road Improvements	\$ 330,558
	Replace Truck 45 (2005)	\$ 275,466
	Jones Street Culvert Replacement - Second (Final) Year Funding	\$ 44,500
	HBOE - GHS School Roof Restoration	\$ 500,000
	HBOE - HES School Roof Restoration	\$ 100,000
	Senior Center Parking Drainage, Repave and Expansion	\$ 75,000
	Horton House Improvements	\$ 50,000
	Total Recommended CIP Budget	\$ 1,375,524

FY 2024-2025 CIP Budget Revenue Town Manager Proposed March 1, 2024

	Approved 2023-2024	Proposed 2024-2025
Balance from Previous Appropriations	\$ 33,639	\$ 5,238
LOCIP Funding	\$ 68,830	\$ 102,152
Funding from Other Sources: Public Safety Fund	\$ 11,400	\$ 11,400
Interest	\$ 1,000	\$ 30,000
General Fund Contribution	\$ 488,017	\$ 1,226,734
Total Revenues	\$ 602,886	\$ 1,375,524

Completed Project Balances

Large Dump Truck 20-21	5,000
Large Dump Truck 22-23	238

5,238

CAPITAL IMPROVEMENT PROGRAM FIVE YEAR PLAN

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						1				
			23-24	24-25	24-25					
	Total	Approved	APPROVED	Town Manager	Department					
	Request	Appropriation	RITIOTED	Recommendation	Request	25-26	26-27	27-28	28-29	29-30
Town Wide Roads	1.000000				11000001					20.00
Road Resurfacing and Road Improvements	On Going	On Going	320,930	330,558	330,558	340,475	350,689	361,210	372,046	383,207
Town Wide Roads Sub Total	on cong		320,930	330,558	330,558	340,475	350,689	361,210	372,046	383,207
Public Works			020,000			010,110			¢12,¢.v	••••
Bridge Replacement - Old Colchester Road	544,700	1		Grant Funded	Grant Funded	1				
Replace Truck 52 (2007)	226,956		226,956	Grant and a	0.0.00	· · · · · · · · · · · · · · · · · · ·				
Jones Street Culvert Replacement	99,500			44,500	44,500					
Street Sweeper (1999)	314,493		00,000	1,,000	150,000	150,000	164,493			
Large Dump w/Plow (replace Truck 45)(2005)	275,466			275,466	275,466					
Large Six Wheel Dumpr Truck w/ Plow and Sander (Truck 24)	275,466			21.0,100	275,466	275.466				
Ten Wheel Dump Truck (replace Truck 18)(2007)	347,905					347,905				
Large Dump w/Plow (replace Truck 9)(2009)	289,340					289,340				
Large Dump w/Plow (replace Truck 26) (2003)	303,701					200,010	303,701			
Large Dump w/Plow (replace Truck 31) (2012)	303,701						303,701			
Large Dump Truck (replace Truck 2) (2006)	318,886							318,886	<u> </u>	
Large Dump Truck (replace Truck 46) (2006)	334,830								334,830	
Old Slocum Road Culvert Replacement	840,000		· · · · · · · · · · · · · · · · · · ·						420,000	420,000
Engineering/Design New Public Works Facility - (to be bonded)	15,000,000					· ·				,
Public Works Sub Total		· ·	281,956	319,966	745,432	1,062,711	771.895	318,886	754,830	420,000
Fublic works oub Total			201,800	010,000	1 10,102	1,004.,1	111,000			120,000
Board of Education						· · · · · · · · · · · · · · · · · · ·				
PA and Clock System - GHS and HES	297,400				297,400	297,400				
Air Conditioning and HVAC Upgrade GHS	1,635,100				7,500	1,635,100				
Air Conditioning and HVAC upgrade BHS	1,623,800				7,500	1,623,800				
Gilead Hill School Roof Restoration and Study	550,000			500,000	500,000	1,020,000			i	
HES Roof	160,000			100,000	100,000					
Backup Generator HES	193,500			100,000	100,000		193,500			
Glass Brick Wall to Window Replacement GHS	149,500			······································			130,000	149,500		
	53,500							53,500	· · · · · · · · · · · · · · · · · · ·	
Glass Brick Wall to Window Replacement HES	100,000								100.000	
Parking Lot HES Board of Education Sub Total				600,000	912,400	3.556.300	193,500	203,000	100,000	
Board of Education Sub Total				000,000	312,400	3,330,300	100,000	203,000	100,000	
Fire Department/EMS										
Replace Rescue 110 and Engine 110 w/ Rescue Pumper	1,050,000			Fund Outside of CIP	350,000					
Replace Rescue 110 and Engine 110 w/ Rescue Fumper	75,000			Fund Outside of CIP	75,000					
Ambulance 610	350,000				10,000		350,000			
Fire Department Sub Total					425,000	-	350,000	-	- 1	-
File Department oub Total					120,000	-				
Recreation								_		
Trackless Snow Machine	180,000				180,000	180,000				
Skid Steer	87,775			· · ·	87,775	87,775				
Veteran's Memorial Park Baseball Field Lighting	250,000			ARPA	ARPA		†			
Pickleball Courts	120,000					ARPA				
Pond Dredging	100,000				· · · · · · · · · · · · · · · · · · ·		100,000			
Gravville Upgrades	75,000				· +	1 1		75,000		
Pickleball Lighting	100.000								100,000	
Burnt Hill Playscape	200,000									200,000
Recreation Sub Total					267,775	267,775	100,000	75,000	100,000	200,000
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CAPITAL IMPROVEMENT PROGRAM FIVE YEAR PLAN

	Tota!	Approved	APPROVED	Town Manager	Department					
	Request	Appropriation		Recommendation	Request	<u>25-26</u>	<u>26-27</u>	<u>27-28</u>	28-29	<u>29-30</u>
· · · · · · · · · · · · · · · · · · ·										
Douglas Library										
Douglas Library Parking Lot Paving	173,919				173,919	173,919				
Douglas Library Sub Total			-	-	173,919	173,919	-	-	-	
Senior Center										
Natural Gas Generator	75,000				75,000	75,000				
Senior Center Parking Drainage, Repave and Expansion	100,000			75,000	100,000	25,000				
Senior Housing Needs Study/Engineering	TBD									
Senior Center Sub Total			-	75,000	175,000	100,000	-	-	-	-
Planning & Development										
ADA Self-Evaluation and Transition Plan	150,000				75,000	75,000				
Horton House Improvements	81,600			50,000	81,600	31,000				
Parks and Recreation Master Plan	75,000				75,000	75,000				
Planning & Development Sub Total				50,000	231,600	181,000	-	-	-	-
Miscellaneous										
VHF Radio System - All Town Departments (Bancroft)	95,713				95,713	95,713				
WPCA	TBD		1							
Miscellaneous Sub Total		• •		-	95,713	95,713				
GRAND TOTAL			602,886	1,375,524	3,357,397	5,677,893	1,766,084	958,096	1,326,876	1.003,207

CAPITAL PROJECTS/INFRASTRUCTURE REQUEST

	Request Prepared By:	Paul Forrest	C	ontact Person for Questi	ons: Paul Forres	t
	Department: Public \	Works		Dat	te Prepared: 11/14/2	3
1.	Project Title: Road F	Resurfacing and Road In	nprovements	2. Department Price	prity:	
	Add a r x Modify	quest Form (check one) new item to the program a project already in the pr			Continue a CIP request Delete an item already a	
4.	Location: Town re	oads in Hebron				
5.				road resurfacing and recon		łways.
6.	Justification and Usef Roads PCI ratings a	ul Life:	ient replacement program,	please attach a copy of that sch	edule.)	
7.	Requested Cost Estim	ates for:				
	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030
	\$330,558.00	\$340,475.00	\$350,689.00	\$361,210.00	\$372,046.00	\$383,207.00
		is indexed for inflation, in	dicate the adjustment	t percent (%) used or meth		
0.	Project Cost Summary Equipment Acquisiti Property Acquisition Planning / Engineer Construction: Furnishings / Equip Contingency / Other TOTAL COST:	ion: n: ing / Legal: ment:	\$330,558.00	9. Recommended Me Taxes / Current Grants: Finance - Lease Bonds: Capital reserve Other: TOTAL FINAN	k revenues:	\$330,558.00
10.	Document. What under and write a	funding priorities in the priority(ies) does your r brief description as to h CIP criteria for priority	equest fall ow your	schedule for com	ing is over several year oleting the project, and rs, including studies or	what work has been
				CIP Action: Funding Recomme BOS Action: BOF Action:	ndation:	

	Ĵ.		CAPI	TAL PROJECTS/IN	IFRASTRUCTURE RE	QUEST	
R	equest Prepa	ared By:_	Paul Forrest	(Contact Person for Quest	ions: Paul Forres	t
D	epartment:	Public W	/orks		Da	te Prepared: <u>11/09/2</u>	23
1. P	roject Title:	Truck 4	5		2. Department Pri	iority: 3	
	urpose of Pr X	Add a ne Modify a	uest Form (check on ew item to the program project already in the /orks Department	, I		Continue a CIP request Delete an item already a	
5. D	escription:		•	with Plow and Sander f	to replace T-45 (2005)		
		nd Usefu le to age a	I Life: and mileage. Year of N	pment replacement program 1odel: 2005 Mileage: 6;	, please attach a copy of that sche 2,809.00	sdule.)	
. к г	equested Co	st Estima	tes for:	-			1
		.00 estimate i	2025-2026 s indexed for inflation, nflation used. Total pr	•	2027-2028 It percent (%) used or meth	2028-2029 od of deriving the calculat	2029-2030 red future cost:
	roject Cost S Equipment Property Ar Planning / I Constructio Furnishings Contingenc	Acquisitio cquisition; Engineerir on: s / Equipm cy / Other:	n: ng / Legal:		9. Recommended M Taxes / Curren Grants: Finance - Leas Bonds: Capital reserve Other:	% t revenues: e:	\$075 400 00
	TOTAL CO	081:		\$275,466.00	TOTAL FINAN		\$275,466.00
0.	Document under and	. What pi write a b	Inding priorities in the riority(ies) does your rief description as to CIP criteria for priorit	request fall how your	schedule for com	ing is over several years pleting the project, and rs, including studies or	what work has been
			<u>. </u>		12: Reserved: CIP Action: Funding Recomme BOS Action: BOF Action:	ndalion:	
	Town Mana	ager Revie	w I I		(00)	mplete one sheet for eacl	n request)

Prepared for: Paul Forrest Town of Hebron 550 Old Colchester Rd Hebron, CT 06248 Phone: 860-228-2871 Mobile: 860-573-4650 E-Mail: pforrest@hebronct.com

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Prepared by: Greg Martinotti FREIGHTLINER OF HARTFORD 222 ROBERTS STREET EAST HARTFORD, CT 06108 Phone: 860-559-9547 E-Mail: GREG@FOHCT.COM

QUOTATION – BUDGETARY SAPLOW TRUCK W/ 10' BODY PACKAGE

114SD PLUS CONVENTIONAL CHASSIS

114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL SET FORWARD AXLE - TRUCK CUM L9 370 HP @ 2100 RPM; 2100 GOV RPM, 1250 LB-CAB FT @ 1200 RPM 4725MM (186 INCH) WHEELBASE ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH NO FIFTH WHEEL PTO PROVISION 7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI RS-30-185 30,000# U-SERIES SINGLE REAR AXLE CHALMERS 1030 30.000# REAR SUSPENSION 1600MM (63 INCH) REAR FRAME OVERHANG PARTIAL INNER FRAME REINFORCEMENT AT FRONT DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE SUSPENSION 20,000# TAPERLEAF FRONT SUSPENSION TEM TO EVALUATE AND INSTALL FRAME RAIL REINFORCEMENT AS NEEDED FOR FRONT FRAME MOUNTED EQUIPMENT

			PER UNIT	TOTAL
CHASSIS & BODY	TOTAL # OF UNITS (1)	\$	275,466.00	\$ 275,466.00
CUSTOMER PRICE BEFORE TAX		\$	275,466.00	\$ 275,466.00
TRADE-IN		* <u>29</u> .85	on internet and in the	
TRADE-IN ALLOWANCE		\$	(0)	\$ (0)
BALANCE DUE	(LOCAL CURRENCY)	\$	275,466.00	\$ 275,466.00
COMMENTS:				
Projected delivery on / / provi	ded the order is received before	/	/	
APPROVAL:				
Please indicate your acceptance of this qu	otation by signing below:			

Customer: X_____Date: __/ __/___.



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Prepared for: Paul Forrest Town of Hebron 550 Old Colchester Rd Hebron, CT 06248 Phone: 860-228-2871 Mobile: 860-573-4650 E-Mail: pforrest@hebronct.com

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Prepared by: Greg Martinotti FREIGHTLINER OF HARTFORD 222 ROBERTS STREET EAST HARTFORD, CT 06108 Phone: 860-559-9547 E-Mail: GREG@FOHCT.COM



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Page 2 of 2

CAPITAL PROJECTS/INFRASTRUCTURE REQUEST

Request Prepared By:	Paul Forrest	Co	entact Person for Questic	ons: Paul Forres	st
Department: Public	Works		Date	Prepared: <u>11/14/2</u>	23
1. Project Title: Jones	Street Culvert Replacem	ent	2. Department Prio	rity: 1	
	new item to the program a project already in the pr			Continue a CIP request Delete an item already	
5. Description: Replace	ement of culvert on Jones	Street			
6. Justification and Use	iul Life:	ent replacement program, p	olease attach a copy of that sche	dule.)	
7. Requested Cost Estin	nates for:				
2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030
\$44,499.05					
If your estimate 5% used for inf		dicate the adjustment	percent (%) used or metho	od of deriving the calculation	ated future cost:
8. Project Cost Summar Equipment Acquisit Property Acquisitio Planning / Enginee Construction: Furnishings / Equip Contingency / Othe TOTAL COST:	ion: n: ring / Legal: ment:	\$99,500.00	9. Recommended Met Taxes / Current Grants: Finance - Lease Bonds: Capital reserve: Other: TOTAL FINANC	% revenues:	\$99,500.00
Document. What under and write a request meets the	funding priorities in the priority(ies) does your re brief description as to h CIP criteria for priority t	equest fall ow your funding.	done in prior year	leting the project, and s, including studies or Replacement has prior	l what work has been
prior funding is has rest of the funding	eets the criteria for priority already received. Not rec would mean that only half nt would be completed.	eiving the	CIP, \$44,499.05 is t 12. Reserved: <i>CIP Action:</i> <i>Funding Recommen</i>		
			BOS Action: BOF Action:		



COMPANY NAME	TODAY'S DATE	12/12/2023
Town of Hebron	JOB ID	2211-776239-08
PROJECT ADDRESS		
Jones Street, Hebron, Connecticut, 06231		
PROJECT NAME	PROJECT CONTAC	т
Hebron Jones rd Storm CIPP	Town of Hebron, Da	rren Norton
PROPOSAL COMPOSED BY	SALES REP CONTA	ACT NUMBER
Gino Padewski	(860) 204-7479	

Project Description

This proposal is for the Mainline CIPP installation of two separate CMP storm culvert lines on Jones St. in Hebron CT.

If both Culverts lines are accepted and scheduled during one mobilization Savy and Sons discount the total project cost by 5%.

1)CCTV Camera Inspection:

An inspection will be completed before the project start.

2) Jetting and Cleaning:

As needed, per pipe camera inspection, we will use high-pressure hydro jetting to clean and sweep downstream any debris and/or clogged pipes and cut and descale blockages as discovered and necessary. anything other than roots/ rocks/ dirt and debris that cannot be removed using standard drain cleaning jetting and descaling equipment will require an additional Robotic cutting service below.

3)Robotic cutting/ reinstatement

After the cured in place pipe liner is installed inside the pipe, we will use our robotic cutting tools and equipment to cut out all tied in service laterals where we had lined over. This will put the entire piping system back in full use service.

The total number of reinstatements is to be determined once the final jetting and descaling is performed (as often build up and debris hide the reinstatements) And total number of reinstatements will be charged \$650 per reinstatement

~Individual Service Price:

\$650 each reinstatement X ____0 ___estimated reinstatements = \$___0 ___ Included in project total cost below

4)Vacuum and Removal (Estimated not to be needed for this project) If vacuum services are required in order for Savy & Sons to complete inspection and/or jetting services, the rates are listed below.

~Jet/ Vacuum Combo Truck With 2 Operators Rates:

- \$2,000 minimum charge for 4 hours port to port

- \$4,000.00 per day 8 hours port to port

-After 4 hour minimum charge, hourly rate will be charged at \$500/ hr

~Disposal Costs; \$195/ ton (non hazardous) \$235/ ton (hazardous), unless customer has a dump site. A 4 ton minimum load charge shall apply

~Traffic control rates (24 hr notice required for traffic control hiring): \$58.00 per hour (4 hour minimum) ~Services onsite exceeding 8 hours, price is subject to change

5)Mainline Repairs and Relining:

36" CMP with a length of 65'

There is approx. 10% repair needed to the Flow line before the CIPP installation.

S&S will bypass pump from the damn area that TOH installs before our arrival.

~Individual Service Price: \$52,396.00

30" CMP with a length of 40'

There is approx. 15% repair needed to the Flow line before the CIPP installation. S&S will bypass pump from the damn area that TOH installs before our arrival.

~Individual Service Price: \$42,365.00

- Total Estimated Price if both Culverts are performed in the same mobilization : \$90,023

Project Specific Notes:

- Town of Hebron to provide traffic control

- Town of Hebron to install damning to prevent any water to enter the work area prior to S&S arriving, Savy and Sons will bypass pump from this damned area.

- Bypass pumping will cross the roadway at each location.

- Does not include job specific or necessary permit fees, once this proposal is signed, Savy & Sons will apply for permits and all associated costs will be added to the project total cost.

- CBYD will be performed before project start.

- If an on-site witness inspector is required for this service, a predetermined time of inspection must be planned prior to job start.

Savy and Sons will first locate all on site access points and or clean outs and CCTV (closed circuit television) and perform a pipe camera inspection. This inspection will determine the condition of the pipe and be recorded for documentation.

At this point we will assess and determine the repair and lining options as Savy & Sons can dig and replace or use trenchless technology to install Cured in Place Pipe systems. Savy and Sons are certified applicators of many

Cured In Place Pipe systems that we will install.

Pipe Preparation and Reinstatement

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All pipes will be cleaned and prepared to manufacture recommendations. Savy and Sons has top of the line pipe preparation and inspection equipment. All our technicians are fully trained on CCTV camera, Jetting, descaling and robotic cutting equipment. Savy and Sons is NASSCO trained and stays up to date on the latest industry technologies.

CIPP Lining Solution CIPP (Cured In Place Pipe Lining) technology is a resin-saturated felt tube made of polyester, fiberglass cloth and resin impregnation. It is inverted with air or pulled into a damaged pipe. This system will create a monolithic seamless liner inside the pipe which increases original flow rate by eliminating all pipe joints and reducing friction. CIPP Lining is best suited for straight pipe runs but can be used for bends in some instances.

SIPP Lining Solution SIPP (Spray In Place Pipe Lining) technology is 100% Solids Epoxy resin that is spray/ brush applied in multiple layers and provides a damp proof, corrosion resistant, wear-resistant lining. The lining thickness and material can be adjusted based on your specific project needs. We offer solutions for high heat, high pressure and even NSF/ANSI 61 potable water.

Both SIPP and CIPP application methods create little to no dig solutions making it a "Trenchless" technology. This makes for a cost effective and less disruptive method rather than the traditional "dig and replace" pipe repair methods. Both of these methods hold extreme chemical resistance.

Savy and Sons SIPP/ CIPP Warranty Both systems carry a full ten year warranty and have a 50 year life expectancy per ASTM- F 1216 Third Party Testing. Max flow temps not to exceed 140F. No cables/ drain snake type equipment to be used after liner is installed. Call Savy & Sons for all future service. Please see Savy and Sons Warranty for details. Custom warranty options are available at owners request.

Please Note: Savy and Sons will submit the video inspection report and written report to the customer. Customer agrees to pay the Inspection charge in full.

Payment terms & conditions: A nonrefundable 50% down payment due before project start. Upon receiving invoice, customer agrees to pay the remaining 50% in full within 30 days of when customer receives invoice. **We accept checks or credit card for your convenience (3% additional merchant fee added to total invoice)** There will be a 2% **late fee** on any invoice not paid after 30 days, an additional 2% will be charged every 15 days thereafter. If Invoice is 30 days delinquent, a bond claim will be filed. If invoice is 60 total days delinquent, a mechanics lien may be filed to enforce collection and buyer agrees to pay all costs accrued.

If Estimator was not made aware of prevailing wage rates and job becomes prevailing wage, additional charges may apply

Please Note:

1. Any project scheduled after November 1st may be subject to price increase due to below freezing weather conditions which require additional equipment and services.

2. Due to the current situation that COVID-19 and other circumstances beyond our control has caused, material pricing is only valid for 5 days upon receipt of this proposal. If any COVID-19 testing or specific protocol is required, pricing is subject to change.

This constitutes the full agreement between buyer and Savy & Sons, changes will only be executed upon written and signed orders and may result in change of costs. This proposal is valid for 5 days of proposal date.

Assumptions:

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State Sales tax will be charged to the customer on all invoices unless a tax exempt certificate (ST-5 and ST-5C forms) is received.
 Above quantities are for estimating purposes only. Actual quantities recorded in the field will be invoiced. We are assuming quantities/dimensions provided to us by customer. If quantities/dimensions are agreed upon, any work exceeding those number will be subject to additional charge. If there are any project changes the price is subject to change

3. Pricing assumes that any utilities are not active. If live utilities are found and restrict work from progressing, additional charges may be applied.

4. Owner to supply access to all safe openings, all necessary permits, police details and/or traffic control if needed. If parking is off-site, customer to provide temporary location for contractor to load/unload equipment.

5. If owner does not provide and accept responsibility of debris disposal, additional cost for debris disposal will be applied.

6. Any project concerns such as odors, noise, vibrations, dust, over-spray must be formally discussed prior to work. Any unexpected hold-points will be additional charge.

7. Check-in/Check-out/Orientation procedures to be disclosed by customer prior to proposal. Unexpected delays caused by undisclosed check-in/check-out/Orientation procedures will be additional charge.

8. Contractor projects hold a standard 1 year craftsmanship warranty. See warranty page for full details regarding Warranties. Executed warranty will be sent once completed and paid in full

9. All work will be performed during regular work hours unless otherwise noted.

10. Where applicable the owner will receive and store (or permit the contractor to store) within one hundred feet of the work area, and properly protect from damage or loss, the materials and equipment for carrying out this contract, and allow the contractor reasonable use of light, heat, water, power and available elevators, hoists etc. necessary to perform this contract as well as access to roof, if required.

11. Contractor will provide submittals and a Work Schedule prior to commencement of any work, if so required. Submittals and sample testing provided to the owner are a representative sample. Finish products may vary slightly in color, texture, etc.

12. Any alteration or deviation from above specification involving extra costs will be executed only upon a written change order and will become an extra charge over and above the contract price.

13. All pricing is based on all existing materials being non-hazardous and does not include any special removal or disposal costs associated with such.

GENERAL TERMS AND CONDITIONS

I. General Conditions: These general conditions are incorporated by reference into the proposal and are part of the Agreement under which services are to be performed by the Contractor for the Customer.

If. Customer Supplied Labor: Where the Customer supplies labor for the Contractor; the Customer will indemnify the Contractor for liability, loss or expense for work related injuries to the Customer's employees. The Customer agrees to waive all rights of subrogation against the Contractor arising out of the work in this Agreement.

III. Damage Limitations: Under no circumstances will the Contractor be responsible for indirect, incidental or consequential damages. The Contractor also is not responsible for the rendering of or failure to render architectural, engineering or surveying professional services.

IV. Preexisting Conditions: The Contractor will not be responsible for liability, loss or expense where the primary cause of the claim or damage is pre-existing conditions including unsound concrete, faulty, inadequate or defective design, construction, maintenance or repair of property or contamination of the subsurface where the condition existed prior to the start of the Contractor's work. Customers are responsible for loss of service caused by the preexisting conditions at the jobsite.

V. Environmental Conditions: The Customer represents and warrants to the Contractor that the debris relating to the work being done under this Proposal is non-hazardous, requiring no manifesting or special permitting. The Customer understands and agrees that it will be responsible for any additional costs or claims associated with any permitting, treatment, transport, storage or disposal of the removed debris, regardless if it is hazardous or non-hazardous.

VI. Indemnification: The Customer and Contractor will each indemnify the other for liability, loss and expense incurred by the other party resulting from a negligent act or omission in performance of work under this Agreement, or any breach of any provision of this Agreement. If both parties are jointly at fault, each will indemnify the other in proportion to their relative fault. The Customer will also indemnify Contractor for liability, loss and expense resulting from Contractor's services if the Contractor is acting at the direction or instruction of the Customer, or where the primary cause of any damages is due to information provided by the Customer, or for any environmental condition that arises as a result of the performance of the work under this Agreement. In the event of any litigation arising from or related to this Agreement, the prevailing party shall be entitled to recover from the non-prevailing party all reasonable attorneys' fees and costs incurred in such litigation.

VII. Entire Agreement: This proposal together with any written documents, which may be incorporated by specific reference herein, constitutes the entire agreement between the parties and supersedes all previous communications between them, either oral or written. The waiver by contractor of any term, condition or provision herein stated shall not be construed to be a waiver of any other term, condition or provision herein stated shall not be construed to be a waiver of any other term, condition or provision herein.

By signing this proposal, you give Savy & Sons permission to feature this project anonymously on our website and advertising platforms as an informational awareness case study to help others.

By signing this proposal you are agreeing that our attached presented Certificate of Insurance meets your companies requirements and are accepted. Any added items to our Certificate of Insurance may be subject to a price change

> Please sign and return via e-mail or fax before start of project. Thank you for your consideration.

Signature Date																•		•				•				•			
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COMPANY NAME Town of Hebron PRINTED NAME Kevin Kelly

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			CAF	TAL PROJECTS/IN	RASTRUCTURE RE	QUEST	
		Request Prepared By Kal	llvn Shelar	C	ontact Person for Questi	nn Kaillyn Shelar	
,			f Education	-		htte Prepared: 11/01/23	
	1.	Project Title: Roof-		· · ·	2. Department Pri		······································
		Purpose of Project Requ					····
	" [Add a na	ew item to the program			Continue a CIP request in th	e same year
			t project already in the pro fill School	ograin		Delete en item aiready a par	t of the program
	4,		111 86,000	•	•		
	5,	Description: Remove Add add	& Replace 1,073 square	feet of insulation on levels	A, C & E. Add tapared or	ckets & saddles to 5,400 sq. ft. c 20 year roof restoration to all sur	of ponding area.
	ĺ		intonal dizana to assist pos	, Nave urstrage III (DOI A. C	, complete na reacorceu ,	20 year 7001 nestoration to all sur	aces,
		(ii this required and Liseful I		nt replacement program, please	atlach a copy of that schedule.)	•	
	Ð	Justification and Useria I	Lite: ·			-	
	7.	Requested Cost Estimate	as far:	A	····	· · · · · · · · · · · · · · · · · · ·	•
	Г					- <u>T</u> T	
		2024-2025 \$ 550,000,00	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030
			Indexed for inflation, indi	cate the adjustment perce	int (%) used or method of a	erVing the calculated future cos	it:
	8,	Project Cost Summary:			9. Recommended Me	thod of Financing	· • · · · · · · · · · · · · · · · · · ·
		Equipment Acquisition	I			%	
		Property Acquisition:		1947 billen 1940 millen britten ander som	Texes / Curren Grants:	an a	\$243,564.36
		Planning / Engineering Construction:	1 / Legal:	550,000.00	Finance - Leas Bonds:	0) 0)	1896(4)11)1884(4)1884(4)1774((4)199(199)(4)148)144(4)144)
		Furnishings / Equipme Contingency / Other:		ala ana sa ana ana ana ana ana ana ana ana	Capital reserve		
,		TOTAL COST:	\$	550,000,00	Other: TOTAL FINAN	65.72%	\$306,435,64 243,564,36
	10.		iding priorities in the Ci prity(les) does your requ			ng is over several years, outli	
:		under and write a brid	of description as to how	r your	done in prior year	pleting the project, and what w s, including studies or other p	ilanning,
		request meets the Cli	P criteria for priority fun	iding.	\$50.000 allocated h	n FY23 for Initial work on roof.	
			identified as an "essential nto (wo buliet descriptors:				
		equipment maintenanc	e, and severity of need fo	r the project.			
:			ouid create an unsafe spa d escalate this project to a		12. Reserved:		
•			s of health and safety con				
					CIP Action:		
					Funding Recommen BOS Action:	idation:	
				······	BOF Action:		
					1		1
		Town Manager Review			foor	nplete one sheet for each reque	st)

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NUCLEAR BACKSCATTER INSPECTION

Gilead Hill School

FOR:

Tremco Mike Boudreau

DATE:

March 11, 2020

BY:

Infrared Predictive Surveys, Inc. PO Box 224 Adamstown, MD 21710

> Phone: 301-831-1978 Toll Free: 800-869-3720 Fax: 301-874-2295



SYNOPSIS

A nuclear backscatter survey of one of the roofs was performed at the Gilead Hill School, located at 580 Gilead St., Hebron, CT 06248. Visual observations have been made and the data has been documented.

INTRODUCTION

This report has been prepared for the exclusive use of Mike Boudreau at Tremco, for the specific application of the roofs at 580 Gilead St., Hebron, CT 06248.

Authorization

Authorization to perform this evaluation, analysis and nuclear backscatter roof scan was in the form of an agreement between Mike Boudreau at Tremco and Infrared Predictive Surveys Inc. (IPSI)

<u>Scope</u>

The scope of the roof survey included nuclear backscatter and core sampling verification. Data from this survey has been incorporated into this final report. The scope of this specific scan is to detect subsurface moisture or wet insulation.

Purpose

The purpose of this scan was to locate areas of subsurface moisture in multiple roofs.

General

Observations described in this report are based upon roof at the time of the survey and these conditions may change as the roof ages.

Infrared Predictive Surveys, Inc. warrants that these findings are published after being prepared in accordance with generally accepted practices of the construction industry. No other warranties are implied or expressed.



TEST INSTRUMENT DESCRIPTION

(Only testing that has been completed during your survey will be checked.)

Infrared Testing

The infrared roof survey locates moisture in a roof by seeking areas of increased surface temperature. Roof areas that contain moisture have higher thermal conductivity and capacitance than dry areas. During the heating season, heat from the building interior is lost at a greater rate through wet roof areas and their surface temperatures are elevated. Alternatively, during the cooling season, solar heat is absorbed into the wet area, and then retained for hours after the sun sets.

When viewed through the infrared imager, wet areas appear as brighter, lighter tones of gray in black-and-white images. Alternatively, in color images, wet areas will appear as hotter colors. A color scale appears at the side of color images. As colors progress upward, temperatures increase. In general, the higher the concentration of water, the higher the surface temperatures.

Because higher surface temperatures, and consequently hotter colors, may be produced by several phenomena not related to moisture intrusion, tests are made to verify the findings of the infrared inspection using destructive testing (core cuts) and other nondestructive tests (capacitance & nuclear). Wet areas found by infrared testing are illustrated with thermograms (photographs of infrared images).

Capacitance Verification (Hand Held Tramex Meter)

The Tramex capacitance meter is a mobile device that is used for detecting relative moisture content of roof areas. This non-destructive testing method is often combined with nuclear and thermal testing and/or moisture intrusion testing to accurately identify water entry pathways and areas of entrapped water. The Tramex moisture meter is designed for testing built up roofing and non-conductive single ply membrane. It provides instantaneous, clear indications of roof conditions and is able to detect as little as 2% excess moisture in roofing systems.



Nuclear Backscatter

A radioactive isotope consisting of Americium-241 with a Beryllium target is utilized. The measurement method relies on the thermalization (slowing) of fast neutrons by the hydrogen atoms in water. Since other Hydrogen bearing materials also thermalize neutrons, a measurement survey is necessary to establish a relative base level before an analysis can be performed.

Core Sampling

Core samples consist of cuts through the roof membrane. The sample provides an absolute test of moisture content and location. The core cut also permits the constituents of the roof system, and their condition, to be determined. Core sample may be weighed, dried and reweighed to provide a quantitative measure of moisture content.

A cut is made into the roof with a two inch (2") circumference roof sampling tool. The repaired core cuts are made with an appropriate material.

EQUIPMENT USED

- The qualitative infrared scan was conducted by a certified thermographer using a Mikron 7515 uncooled infrared imager. Lens for the Mikron was 29 degree FOV, 320 X 240 array with 7.5-13 spectral response. Temperature sensitivity is .1 degree C with accuracy of 2%.
- Inframetrics-ThermaCAM PM390. Temperature sensitivity is <0.1 degree C with a spectral response of 3.4 to 5 μm and a focal array of 256 x 256.
- Inframetrics-ThermaCAM SC1000. Temperature sensitivity is <0.1 degree C and a focal array of 256 x 256.
 - The qualitative infrared scan was conducted by a certified thermographer using a Mikron 7600 Pro. Lens was a 21-degree FOV lens, 320 X 240 focal plane array with 7.5-13 spectral response. Temperature sensitivity is .1 degree C with accuracy of 2%.
- Troxler 3216 Nuclear Backscatter Moisture Gauge
- Delmhorst (pin type) Moisture Meter



FIELD SURVEY METHODS

Visual Observations

Visual observations were made by Infrared Predictive Surveys, Inc. (IPSI) personnel. These observations included roofing structure, roof drainage, roof surface conditions and other accessory items.

Photographic Documentation

Photographs were made by IPSI personnel. While these photographs were not intended to provide a complete record of the roof, they do provide a visual description of typical roof conditions or selected problem areas.

PROJECT IDENTIFICATION

Project Location

580 Gilead St., Hebron, CT 06248

NUCLEAR BACKSCATTER ROOF SCAN

Date(s) of Scan: March 6, 2020

This scan was performed in conjunction with the visual roof survey conducted the same day. The purpose of this scan was to locate areas of suspected subsurface moisture and determine the extent of the moisture migration.

Weather Conditions

March 6, 2020–Maximum daytime roof temperature: 50°F.



FINDINGS AND RESULTS

Notes

- Roof designations were made by IPSI personnel for reporting purposes only.
- A 10' x 10' grid pattern was used for all roof sections tested.

Roof A

- Three (3) suspected wet areas were found on this roof section.
 - Three (3) core cuts were taken on this roof section.
 - #CCA1 (Dry)
 - PVC
 - 1.5" Polyisocyanurate (0%)
 - 1.5" Polyisocyanurate (0%)
 - Metal Deck
 - #CCA2-Wet area #A1. (Wet)
 - PVC
 - 1.5" Polyisocyanurate (Top: 60%; Bottom: 75%)
 - 1.5" Polyisocyanurate (0%)
 - Metal Deck
 - #CCA3-Wet area #A1. (Wet)
 - PVC
 - 1.5" Polyisocyanurate (Top: 25%; Bottom: 2.7%)
 - 1.5" Polyisocyanurate (0%)
 - Metal Deck

Roof B

- No suspected wet areas were found on this roof section.
 - One (1) core cut was taken on this roof section.
 - #CCB1 (Dry)
 - PVC
 - 1.5" Polyisocyanurate (0%)
 - 1.5" Polyisocyanurate (0%)
 - Metal Deck

Roof C

• One (1) suspected wet area was found on this roof section.

Roof D

• No suspected wet areas were found on this roof section.



Roof E

• One (1) suspected wet area was found on this roof section.



If additional information is required, please do not hesitate to contact me. Thank you again for giving us the opportunity to provide our services.

Sincerely,

Joseph Fitzpatrick Infrared Predictive Surveys, Inc. PO Box 224 Adamstown, MD 21710

 Phone:
 301-831-1978

 Toll-Free:
 800-869-3720

 Fax:
 301-874-2295

 E-mail:
 joe@infraredpsi.com

 Website:
 www.InfraredPSI.com



APPENDIX

- Digital Images
- CAD Drawing





School-looking East



Roof A-North side, looking West



Roof A-South side, looking West



Roof A-Center, looking West



Roof A-Center, looking East



Roof A-Wet area A-1, looking East



Roof A-Core cut #CC2 at wet area #A1 (Wet)



Roof A-Core cut #CC2 repaired, looking East



Roof A-Core cut #CC3 at wet area #A1 (Wet)



Roof A-Core cut #CC3 repaired, looking East



Roof A-Core cut #CC1 (Dry)



Roof A-Core cut #CC1 repaired, looking East



Roof A-Suspected wet area A-2, looking South



Roof A-Suspected wet area A-3, center, looking North



Roof A-Suspected wet area A-3, center, looking South



Roof B-Looking North



Roof B-Core cut #CCB1 (Dry)



Roof B-Core cut #CCB1 repaired, looking East



Roof C-Looking North



Roof C-Suspected wet area C-1, looking South



Roof D-Looking South



Roof E-Looking South



Roof E-Suspected wet area E-1, West side, looking North


Roof E-Suspected wet area E-1, East side, looking North





Roof Analysis for:

Gilead Hill School

580 Gilead St. Hebron, CT

GENERAL INFORMATION:

ROOF AREAS:	5 Roofing Sections (A-E)
SQUARE FOOTAGE:	41,000 square feet (approx.)
DATE INSTALLED:	1998 (est.)

ROOF COMPOSITION:

MEMBRANE:	PVC Single Ply
INSULATION:	Polyisocyanurate 3" base layer (Ave R 18)
DECK:	Metal

Inspector Notes:

- Roofs currently performing in Poor to Fair condition
- Diagnostics proved 1,073sqft of wet insulation, 3% found, 5 areas
- Signs of membrane delamination
- Thermal bridging occurring along joints
- Discolored membrane
- Significant ponding (roof A- 5,200sf, roof B 400sf)
- Algae growth

mboudreau@tremcoinc.com • www.tremcoroofing.com



RECOMMENDATIONS: Repairs, Restoration

<u>Repairs</u>

- 1. Remove & Replace 1,073 square feet of wet insulation found during the thermal scan located on roof levels A, C, & E returning overall roofing system observed to a dry condition.
- 2. Consider adding tapered crickets & saddles to all identified ponding areas to promote positive drainage (5,400 square feet of ponding area)
- 3. Consider adding additional drains to assist positive drainage of ponding water conditions (roof A)
- Consider cleaning the roofing membrane of all roof contaminants using RoofTec Cleaning program (EPA compliant roof cleaning program, <u>https://www.rooftecsystems.net/</u>)

Long-Term Restoration Solutions

<u>Alpha Guard BIO NR Roof Restoration (Better Option)</u>: Clean all roofing areas clean if all debris & oils. Replace all found wet insulation areas and replace in kind. Prime all roofing areas to receive restorative materials. Apply Alpha Guard BIO Base coat to all roofing areas at 2.5gl/sq embedding reinforcements to all seams and flashing systems. After initial coat has cured properly, install Alpha Guard Top coat at 1-1.5gl/sq to all roof surfaces to complete. Provide a 15year QA Watertight Warranty with inspections at years 2, 5, 10, & 15. On year 15, the Tremco Field Advisor will provide warranty extension or recoat solutions to prolong the existing roof system.

<u>Alpha Guard BIO Full Reinforced Roof Restoration (Best Option)</u>: Clean all roofing areas clean if all debris & oils. Replace all found wet insulation areas and replace in kind. Prime all roofing areas to receive restorative materials. Apply Alpha Guard BIO Base coat to all roofing areas at 3gl/sq embedding reinforcements to all roofing areas. After initial coat has cured properly, install Alpha Guard Top coat at 2gl/sq to all roof surfaces to complete. Provide a 20year QA



Watertight Warranty with inspections at years 2, 5, 10, & 15. On year 20, the Tremco Field Advisor will provide warranty extension or recoat solutions to prolong the existing roof system.

ROOF CATEGORY: BUDGET ESTIMATE:

Repairs & Restoration vs. Replacement

Roof Name	Roof Square	1	15 Year	20 Year	Vs. 20 Year
	Feet	Maintenance	Restoration	Restoration	Replacemen t

A & B	1,073	\$14,500			
		(Repairs only)			
A & B	5,400	\$81,000			
		(Ponding			
		Areas)			
All Levels	77,000	\$6,500			
		(Tremcare			
		Maintenance)			
Roofs A-E	41,000		\$390k - \$450k	\$480k -	\$700k -
	10		yana Ar	\$550k	\$900k

mboudreau@tremcoinc.com • www.tremcoroofing.com

	CAPITAL PROJECTS/NFI	RASTRUCTURE REQUEST	
		ntact Person for Question: Kalilyn Shelar	
	Department: Board of Education	Date Prepared: 11/01/23	
	1. Project Title: Roof-HES	2. Department Priority: 3	•
	3. Purpose of Project Request Form (check one) Add a new item to the program	Continue a CIP request in the same year	
	Add a new	Delete an item already a part of the program	
	4. Location: Hebron Elementary School		
	5. Description: Remove & Replace 100 sq. ft. of insulation on roof level B. C	omplete full 20 year reinforced roof restoration on all levels.	
	•		
	(If this request is part of a regular equipment replacement program, please 6. Justification and Useful Life:	allach a copy of that schedala)	
·	7. Requested Cost Estimates for:		,
	2024-2025 2025-2026 2026-2027	2027-2028 2028-2029 2029-2030	
	\$ 160,000.00 · · · · · · · · · · · · · · · · ·	nt (%) used or method of deriving the calculated future cost:	
	8. Project Cost Summary:	9. Recommended Method of Financing:	
		% Taxes / Current revenues: 44.28% \$70,855.09	
	Equipment Acquisition: Property Acquisition:		
	Planning / Engineering / Legal: Construction: 180,000.00	Finance - Lease: Bonds:	
	Furnishings / Equipment: Contingency / Other:	Capital reserve: Other: 55,72% \$89,144,91	
	TOTAL COST: \$ 160,000.00	TOTAL FINANCING: \$ 160,000.00	
	10. Please review the funding priorities in the CIP Pollay	11. If the project funding is over several years, outline the	
	Document, What priority(les) does your request fall	schedule for completing the project, and what work has been done in prior years, including studies or other planning.	
	under and write a brief description as to how your request meets the CIP criteria for priority funding.		
	This project has been identified as an "essential project", as	\$60,000 Allocatad in FY23 for roof study	
	these roof repairs fall into two bullet descriptors: facilities/ equipment maintenance, and severity of need for the project.	· · ·	
	If unattended to, this could create an unsafe space for students, and would escalate this project to a "core	12. Reserved:	
	project" on the grounds of health and safety concerns.	CIP Action:	
		Funding Recommendation:	
		BOS Action:	
		BOF Action:	
	Town Manager Review: / /	(complete one sheet for each request)	
	· · · ·		



INFRARED ROOF INSPECTION

Hebron Elementary School

FOR:

Tremco Mr. Mike Boudreau

DATE:

March 11, 2020

BY:

Infrared Predictive Surveys, Inc. P.O. Box 224 Adamstown, MD 21710

> Phone: 301-831-1978 Toll Free: 800-869-3720 Fax: 301-874-2295



SYNOPSIS

An Infrared survey of the roofs was made at the Hebron Elementary School, located at 92 Church St., Hebron, CT. Visual observations have been made and the data has been documented.

INTRODUCTION

This report has been prepared for the exclusive use of Mike Boudreau at Tremco, for the specific application of the roofs at 92 Church St., Hebron, CT.

Authorization

Authorization to perform this evaluation, analysis and Infrared roof scan was in the form of a written agreement between Mike Boudreau at Tremco and Infrared Predictive Surveys Inc. (IPSI)

<u>Scope</u>

The scope of the roof survey included infrared thermography, capacitance and core sampling verification. Data from this survey has been incorporated into this final report.

Purpose

The purpose of the roof survey was to gain an overview of the condition of the roof areas.

General

Observations described in this report are based upon roof at the time of the survey and these conditions may change as the roof ages.

Infrared Predictive Surveys, Inc. warrants that these findings are published after being prepared in accordance with generally accepted practices of the construction industry. No other warranties are implied or expressed.



TEST INSTRUMENT DESCRIPTION

(Only testing that has been completed during your survey will be checked.)

Infrared Testing

The infrared roof survey locates moisture in a roof by seeking areas of increased surface temperature. Roof areas that contain moisture have higher thermal conductivity and capacitance than dry areas. During the heating season, heat from the building interior is lost at a greater rate through wet roof areas and their surface temperatures are elevated. Alternatively, during the cooling season, solar heat is absorbed into the wet area, and then retained for hours after the sun sets.

When viewed through the infrared imager, wet areas appear as brighter, lighter tones of gray in black-and-white images. Alternatively, in color images, wet areas will appear as hotter colors. A color scale appears at the side of color images. As colors progress upward, temperatures increase. In general, the higher the concentration of water, the higher the surface temperatures.

Because higher surface temperatures, and consequently hotter colors, may be produced by several phenomena not related to moisture intrusion, tests are made to verify the findings of the infrared inspection using destructive testing (core cuts) and other nondestructive tests (capacitance & nuclear). Wet areas found by infrared testing are illustrated with thermograms (photographs of infrared images).

Capacitance (Verification)

The Tramex capacitance meter is a mobile device that is used for detecting relative moisture content of roof areas. This non-destructive testing method is often combined with nuclear and thermal testing and/or moisture intrusion testing to accurately identify water entry pathways and areas of entrapped water. The Tramex moisture meter is designed for testing built up roofing and non-conductive single ply membrane. It provides instantaneous, clear indications of roof conditions and is able to detect as little as 2% excess moisture in roofing systems.



Core Sampling

Core samples consist of cuts through the roof membrane. The sample provides an absolute test of moisture content and location. The core cut also permits the constituents of the roof system, and their condition, to be determined. Core sample may be weighed, dried and reweighed to provide a quantitative measure of moisture content.

A cut is made into the roof with a two inch (2") circumference roof sampling tool. The repaired core cuts are made with an appropriate material.

Nuclear Backscatter-Verification

A radioactive isotope consisting of Americium-241 with a Beryllium target is utilized. The measurement method relies on the thermalization (slowing) of fast neutrons by the hydrogen atoms in water. Since other Hydrogen bearing materials also thermalize neutrons, a measurement survey is necessary to establish a relative base level before an analysis can be performed.

The meter used, Troxler 3216, is a portable instrument with a periodic counter to measure the rate of thermalization of neutrons.

EQUIPMENT USED

The qualitative infrared scan was conducted by a certified thermographer using a Mikron 7515 uncooled infrared imager. Lens for the Mikron was 29 degree FOV, 320 X 240 array with 7.5-13 spectral response. Temperature sensitivity is .1 degree C with accuracy of 2%.



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FLIR PM1000

Tramex Meter



FIELD SURVEY METHODS

Visual Observations

Visual observations were made by Infrared Predictive Surveys, Inc. (IPSI) personnel. These observations included roofing structure, roof drainage, roof surface conditions and other accessory items.

Photographic Documentation

Photographs were made by IPSI personnel. While these photographs were not intended to provide a complete record of the roof, they do provide a visual description of typical roof conditions or selected problem areas.

PROJECT IDENTIFICATION

Project Location

92 Church St., Hebron, CT

INFRARED ROOF SCAN

Date of Scan: October 18, 2019

This scan was performed in conjunction with the visual roof survey conducted the same day. The purpose of this scan was to locate areas of suspected subsurface moisture and determine the extent of the moisture migration.

Environmental Conditions

October 18, 2019-Scan time temperature: 62°F.



FINDINGS AND RESULTS

Infrared Findings

Roof A

• No suspected wet areas were found on this roof section.

Roof B

- One (1) wet area was found on this roof section.
 - One (1) core cut was taken at wet area #B1.
 - #CC1 (Wet)
 - TPO
 - 1.5" Polyisocyanurate (Top: 70%; Bottom: 67%)
 - 1/2" Polyisocyanurate (Top: 78%; Bottom: 77%)
 - 3" Polyisocyanurate (Top: 72%; Bottom: 0%)
 - Metal Deck

Roof C

• No suspected wet areas were found on this roof section.

Roof D

• No suspected wet areas were found on this roof section.

Roof E

• No suspected wet areas were found on this roof section.



If additional information is required, please do not hesitate to contact me. Thank you again for giving us the opportunity to provide our services.

Sincerely,

Joseph Fitzpatrick

Infrared Predictive Surveys, Inc. PO Box 224 Adamstown, MD 21710

 Phone:
 301-831-1978

 Toll-Free:
 800-869-3720

 Fax:
 301-874-2295

 E-mail:
 joe@infraredpsi.com

 Website:
 www.InfraredPSI.com



APPENDIX

- Maintenance Program
- Digital Photographs
- Infrared Photographs
- CAD Drawing



Hebron Elementary School



North side of building, looking South



Roof A-Overview, looking North



Roof A-Overview, looking East



Roof A-Overview, looking South



Roof A-Overview, looking West



Roof A-No suspected wet areas identifed or recorded on this roof section.



Roof B-Overview, looking East



Roof B-Wet area #1, looking East



Core Cut #CC1-TPO, 1 1/2" Polyisocyanurate, 1/2" Polyisocyanurate, 3" Polyisocyanurate and a metal deck. (Wet)



Core Cut #CC1 repaired



Wet area #1



Roof C-Overview, looking North



Roof C-Overview, looking East



Roof C-No suspected wet areas identifed or recorded on this roof section.



Roof D-Overview, looking North



Roof D-Overview, looking East



Roof D-Overview, looking South



Roof D-Overview, looking West



Roof D-No suspected wet areas identifed or recorded on this roof section.



Roof E-Overview, looking East



Roof E-No suspected wet areas identifed or recorded on this roof section.





Roof Analysis for:

Hebron Elementary

92 Church St. Hebron, CT

GENERAL INFORMATION:

ROOF AREAS:	5 Roofing Sections (A-E)
SQUARE FOOTAGE:	14,600 square feet (approx.
DATE INSTALLED:	2000 (est.)

ROOF COMPOSITION:

MEMBRANE:	PVC Single Ply
INSULATION:	Taperd Polyisocyanurate 3.5" base layer (Ave R 25)
DECK:	Metal

Inspector Notes:

• Roofs currently performing in fair condition

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- No current leaks reported internally
- Diagnostics proved 70sqft of wet insulation < 1% found
- Signs of membrane delamination
- Thermal bridging occurring along joints
- Discolored membrane

mboudreau@tremcoinc.com • www.tremcoroofing.com



RECOMMENDATIONS: Repairs, Restoration

<u>Repairs</u>

- 1. Remove & Replace 100 square feet of wet insulation found during the thermal scan located on roof level B returning overall roofing system observed to a dry condition.
- Consider cleaning the roofing membrane of all roof contaminants using RoofTec Cleaning program (EPA compliant roof cleaning program, https://www.rooftecsystems.net/)

Long-Term Restoration Solutions

<u>Alpha Guard BIO NR Roof Restoration (Better Option)</u>: Clean all roofing areas clean if all debris & oils. Replace all found wet insulation areas and replace in kind. Prime all roofing areas to receive restorative materials. Apply Alpha Guard BIO Base coat to all roofing areas at 2.5gl/sq embedding reinforcements to all seams and flashing systems. After initial coat has cured properly, install Alpha Guard Top coat at 1-1.5gl/sq to all roof surfaces to complete. Provide a 15year QA Watertight Warranty with inspections at years 2, 5, 10, & 15. On year 15, the Tremco Field Advisor will provide warranty extension or recoat solutions to prolong the existing roof system.

<u>Alpha Guard BIO Full Reinforced Roof Restoration (Best Option):</u> Clean all roofing areas clean if all debris & oils. Replace all found wet insulation areas and replace in kind. Prime all roofing areas to receive restorative materials. Apply Alpha Guard BIO Base coat to all roofing areas at 3gl/sq embedding reinforcements to all roofing areas. After initial coat has cured properly, install Alpha Guard Top coat at 2gl/sq to all roof surfaces to complete. Provide a 20year QA Watertight Warranty with inspections at years 2, 5, 10, & 15. On year 20, the Tremco Field Advisor will provide warranty extension or recoat solutions to prolong the existing roof system.



ROOF CATEGORY: BUDGET ESTIMATE:

Repairs & Restoration vs. Replacement

Roof Name	Roof Square	Repairs &	15 Year	20 Year	Vs. 20
	Feet	Maintenance	Restoration	Restoration	Year
					Replace
					ment

В	100	\$6,250			
		(Repairs only)			
All Levels	14,600		\$100k - \$125k	\$130k - \$160k	\$260k -
	~				\$325k
All Levels	74,000	\$5,900			
	= -01 -	(Tremcare			
		Maintenance)			

CAPITAL PROJECTS/INFRASTRUCTURE REQUEST

Request Prepar	ed By:_	Sharon Garra	ard	Co	ontact Per	son tor Ques	tions:	Sharon	Garrard /	Paul Fo	orrest
Department:	Senior S	ervices				Da	ate Prepai	red:	12/21/23	J	
The second s			ave Sei	nior Center	2. D	epartment Pr	iority:	Core			
and the second se	-	and the second se		the home of the second second second second		Paramati and Anton Without State		- Inford Statements			
COLORADO DE LA COLORA		1011/ DV A111			-		• "			- 4	
	Modifv a	project already i	n the pro	ogram	Γ		Delete a	an item a	already a	part of t	he program
and the second se			1.0	0					and the second second		
Location:	Russell I	Mercier Senior C	enter								_
Description:	Reclaim	Fine Grade & Pa	ve Seni	or Center Upper & Lo	ower Parkir	ng Lot plus ad	ditional ma	aterials t	to addres	s draina	ige
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Additionally, drainage is poor creating Requested Cost Estimates for: 2024-2025 2025-2026 2026-2027 \$ 100.000.00 100 100 100 100	Project Title: Reclaim Fine Grade & Pave Senior Center Parking Lot 2. D Purpose of Project Request Form (check one) X Add a new item to the program Modify a project already in the program Image: Context and the program and the program Image: Context and the program and the p	Project Title: Reclaim Fine Grade & Pave Senior Center Parking Lot 2. Department Prevention Parking Lot Purpose of Project Request Form (check one) Add a new item to the program Modify a project already in the program Image: Context	Project Title: Reclaim Fine Grade & Pave Senior Center Parking Lot 2. 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Contractor: All States Construction, Inc. 413.665.7021

□Warner Bros., LLC 413.665.4055

PROPOSAL - CONTRACT

Buyer	Name Address	Town Of Hebron Highway Dept.			Conto Telept Facsin	hone -	Paul I Forest	Ext Cell	
•	City	Hebron	State CT	Zip	Email	-	860-228-5988		
t	Description	Reclaim Fine Grade	and Pave		Job N	lo. -			
Project	Location	Senior Center		Hebron	Date	-	<u>12-18-23</u>	May be withdraw	vn after day 30
	Owner		Engine	eer			General Contracto		
ne abo	ove Contractor is	pleased to propose the fo	ollowing Scope of Work:		ESTIMA QUANTI			PRIC	CE
Red (E	claim Remo xcess Mater	ve Curb, Fine Gra ial Removed by T	ade and Roll Gra 'own)	avel	2,300 SQY	DS		\$7.75 P	er SQYD
		2" Binder Coars and .375 Super P		se .5 .375	265 Toi 198 Toi			\$ 125.00 \$ 130.00	
6 I	nch Curb F	urnish and Instal	on Top Course		1,195 L	FT		\$ 7.75 P	er LFT
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ails	Ready for Paving by	Required Complete by	Time of Day Restrictions	Day of Week Restrictions	Price Firm Thr		opase		
		Fine grode	Sweeping Contr Buyer	Joint cutting Contr Buyer	Fine grade compact Contr Buyer	Structure Contr	adjust Traffic co Buyer Contr	ontrol A Buyer	dditional materials
Paving Details	Provided	by: Contr Buyer	Comin Doyor				Handwork F		

tor every \$1.00 per ton increase in the cost of liquid asphalt. NOTE: All fees, permits, and engineering will be the responsibility of the Buyer unless otherwise noted above. No bonds will be supplied. Above quantities are estimates only and are subject to adjustment determined by Field Measure unless otherwise noted above. Payment terms are net 30 days, no retainage is permitted by Buyer, unless stated above, and subject to credit approval. Contractor may set off past due balances against any amount due or which becomes due to the Buyer from Contractor or any of its affiliates or subsidiaries. Balances not paid within above terms are subject to default interest at 1.5% monthly percentage rate. In such event, Buyer agrees to reimburse Contractor all collection costs including reasonable attorney's fees and court costs. Contractor reserves all rights to file lawfully permitted liens and seek other lawful remedies.

BY SIGNING BELOW, BUYER ACKNOWLEDGES AND AGREES THAT IT HAS ALSO READ AND APPROVED CONTRACTOR'S <u>STANDARD CONDITIONS</u>, ON THE REVERSE SIDE, AS REQUIRED INCLUDED PARTS OF THIS CONTRACT. This Contract constitutes the entire agreement between the Contractor and Buyer and may only be modified by a written amendment executed by both parties. This Proposal is accepted upon receipt of Buyer's signature, and the Contract is effective as of the date of Contractor's signature tendered to Buyer. Executed by both parties as a sealed instrument.

BUYER		CONTRACTOR	
BUTER		BRUCE PAIGE	Dete
Signature	_ Date	Signature	Date
Name	Title	Name	Title
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CAPITAL PROJECTS/INFRASTRUCTURE REQUEST

Request Prepared By: Matthew R. Bordeaux Co	ontact Person for Questions: Matthew R. Bordeaux
Department: Planning and Development	Date Prepared: 11/15/23
1. Project Title: Horton House Improvements	2. Department Priority: #1
Purpose of Project Request Form (check one) Add a new item to the program Modify a project already in the program	Continue a CIP request in the same year Delete an item already a part of the program
4. Location: 8 Marjorie Circle	
 5. Description: See Attached. (If this request is part of a regular equipment replacement program, please attach a copy of that schedule.) 6. Justification and Useful Life: Historic Buildling occupied by Planning and Development Dept requires improvements 	
for safety, proficient working environment and structural integrity	
7. Requested Cost Estimates for:	
2024-2025 2025-2026 2026-2027	2027-2028 2028-2029 2029-2030
\$81,600	percent (%) used or method of deriving the calculated future cost:
8. Project Cost Summary: Equipment Acquisition: Property Acquisition: Planning / Engineering / Legal: Construction: Furnishings / Equipment: Contingency / Other: TOTAL COST:	9. Recommended Method of Financing: % Taxes / Current revenues: % Grants: Finance - Lease: Bonds: Capital reserve: Other: TOTAL FINANCING:
10. Please review the funding priorities in the CIP Policy Document. What priority(ies) does your request fall under and write a brief description as to how your request meets the CIP criteria for priority funding. This request will address an immediate health and safety concern. As an historic structure under the Town's care, it is our responsibility to maintain and address issues that have a potential impact on employee and customer safety, as well as the asthetic appeal of the building on a highly visible corner in the Hebron Green Village District.	 11. If the project funding is over several years, outline the schedule for completing the project, and what work has been done in prior years, including studies or other planning. 12. Reserved: CIP Action: Funding Recommendation: BOS Action: BOF Action:

Horton House Repairs

The Horton House is occupied by the Planning and Development Department. The structure has a Preservation Restriction administered by the CT State Historic Preservation Office. The House has seen many renovations over the years including heating and cooling, and new windows.

As a result of a flooding event, the basement walls were stripped of gypsum board, presumably to prevent mold from growing, however no follow-up improvements were made. Electrical wiring, security equipment, baseboard heating and related piping are now suspended, not secured, and in a general unfinished condition. Further, it was brought to my attention during an inspection as part of the Facilities' Conditions Assessment (FCA) conducted by Bureau Veritas, that structural degradation was identified and could become a growing concern, if not addressed.

Likewise, due to its age, the Horton House demands more frequent maintenance than you can get away with on a new structure. As a Town-owned, historic asset, at a highly visible traffic intersection, the structure warrants special attention.

Exterior Improvements - The House must be painted, the north side is in need of attention now. Typically, a wall should be painted once every 4-5 years. Cleaning could increase the length of time between required painting. Several of the green shutters have broken, fallen off or been removed and not replaced. They should be replaced. Estimated cost supported by Draft FCA - \$32,100

Interior Improvements - The bathrooms may have been renovated within memory but are now in need of revisitation. Certain interior features need work as well, including water damaged windowsills, light and vent fan fixtures, etc. The windows need to be cleaned, including the window wells where debris can collect and cause water retention and rot. The flooring needs to be replaced. Estimated cost supported by Draft FCA - \$12,000

Basement – Wiring, presumably electrical and communications, needs to be repaired. This will likely require some walls to be framed, which may require some waterproofing. The baseboard heating should either be repaired or removed. Unless the basement walls are waterproofed and insulated, it's unclear to me whether heating is necessary. At least once since the significant flooding event that caused the basement walls to be demolished, water has penetrated the walls and deposited a significant amount of silt on the floor. Estimated cost supported by Draft FCA - \$6,400

<u>Structural Integrity</u> – After review of the building files and inspection of the structure, the assessor/inspector from Bureau Veritas that visited the Horton House questioned some structural elements of the building, as well as the load capacity of the floor where records are kept. A recommendation was made to have a structural review conducted and improvements made. Draft FCA Estimate - \$31,100