

INFRASTRUCTURE COMMITTEE MEETING

6:00 P.M.

Monday July 28, 2014

HAMPDEN TOWN OFFICE

A G E N D A

1. MINUTES OF 7/23/2014
2. OLD BUSINESS
 - A. Pool Roof Bids
 - B. Municipal Garage Tank Bids
 - C. Zero Sort Recycling
 - D. Planet Aid Update
3. NEW BUSINESS
 - A. O'Donald Project – Western Avenue – sewer manhole ownership
 - B. Skehan Center Lighting – Energy Analysis – Options
 - C. Ballfield Road Batting Cages
 - D. Rural Active Living Assessment
 - E. Public Works Overview – Public Works Director
4. PUBLIC COMMENTS
5. COMMITTEE MEMBER COMMENTS

INFRASTRUCTURE COMMITTEE MEETING MINUTES
Monday June 23, 2014

Attending:

- | | |
|-------------------------------|--------------------------------------|
| Mayor Carol Duprey | Councilor Ivan McPike |
| Councilor David Ryder | Councilor Greg Sirois |
| Councilor Tom Brann | Town Manager Sue Lessard |
| Councilor William Shakespeare | Public Works Director Chip Swan |
| Resident Terry McAvoy | Firefighter/Paramedic Jared LeBarnes |
| Resident Mary Beckett | Fire Lieutenant Jason Lundstrom |

The meeting was opened at 6 p.m. by Chairman Ryder.

1. MINUTES OF 4/28/2014 – Motion by Councilor McPike, seconded by Councilor Sirois to approve the May 27, 2014 minutes. Unanimous vote in favor.
2. OLD BUSINESS
 - A. Update – Route 1A Sidewalk – Possible Alternatives – Public Works Director Chip Swan explained to the Committee that he had a staff member assess the sidewalk and there were 1266 feet of it that was in poor condition. He estimates that it would take 40 tons of mix to shim the sidewalk at a cost of approximately \$3,000 and the cost of renting a vibratory roller would be \$800 a week. He estimated that public works employees can do the work in a week or two at a total cost not to exceed \$5,000. He plans to have the work done during the first two weeks of July. Motion by Councilor McPike, seconded by Councilor Shakespeare to recommend to the Council the repair of the Route 1A Sidewalk and to refer to Finance & Administration for funding options. Vote 6-0.
 - B. Municipal Building Flooring Repairs – The Town Manager explained that Public Safety Director Rogers had discussed both tile and finished concrete flooring options for the public safety hall, entrance area, and downstairs corridor. The estimate for tile was higher than the estimate for the finished concrete, but both estimates were over the \$10,000 amount which requires it to be put out to bid. The option preferred by staff is finished concrete for length of wear, ease of maintenance, and life. Motion by Councilor McPike, seconded by Councilor Sirois to put finished concrete flooring out to bid for the portions of the municipal building identified – public safety reception, and public safety corridors upstairs and downstairs. Unanimous vote in favor.
3. NEW BUSINESS
 - A. Request to close Wheeldon Heights for block party July 19th Noon to 6 p.m. – Resident Mary Beckett, of Wheeldon Heights in Hampden, asked for permission to close Wheeldon Heights on July 19th from noon to 6 to all non-resident traffic. The purpose of the closure is for a block party with children’s games and a pot luck dinner/barbecue. Councilor Shakespeare asked if all residents of the street had been notified and Mrs. Beckett advised that most had, but that some had

not. It was her intent to do so after the Council had acted on the request so that she could be definite in what she was telling people. Motion by Councilor McPike, seconded by Councilor Sirois to recommend to the Council that they allow the closure of Wheeldon Heights on July 19th from noon to 6 p.m. for all but resident travel to allow for a block party. Unanimous vote in favor. Councilor Shakespeare expressed support for the block party but concern over the fact that all residents of the street had not had an opportunity to express their opinion. He suggested that she do so and provide additional information to the Council on July 7th when the matter is on the Council agenda.

- B. Emergency Signs over Street Signs – Public Safety Request – Firefighter/Paramedic Jared LeBarnes and Lieutenant Jason Lundstrom presented a request to use existing grant money for the purchase of red street number directional signs to go on top of street/stop signs at the intersection of 11 local roads in Hampden. The Town of Hermon has such signs and they are a great help to any emergency service responding within the community, and are also very helpful to the State Police or other communities who may respond in Hampden for mutual aid. Motion by Councilor McPike, seconded by Councilor Sirois to recommend to the Council the use of existing grant funds for the purchase of the requested signs. Unanimous vote in favor. Public Works Director Chip Swan stated that Public Works would assist with getting the signs up.
- C. Annual Salt Purchase – Public Works Director Chip Swan presented information related to the road salt contract for the 2014/15 year. The Town for a number of years has participated in the State bid process and used Harcross. This year's recommendation is to go with Bangor and Brewer in a separate bid with International salt at a price of \$53.98 per ton – which is 3.23 less a ton than the State bid that we had been using. Motion by Councilor Brann, seconded by Councilor Shakespeare to recommend to the Council that the road salt bid be awarded to International Salt for \$53.98 per ton for the 2014/15 year. Unanimous vote in favor.
- D. Littlefield Avenue Paving – Public Works Director Chip Swan reported that he had been contacted by the Town of Hermon in regard to Littlefield Avenue. Part of the road is in Hampden and part of the road is in Hermon. This year the Town of Hermon is paving their section, and the WhiteHouse Inn is also doing reclamation of their parking areas adjacent to the section of road owned by the Town of Hampden. There is a serious drainage problem in one section of the road owned by Hampden. The Public works director got a cost estimate for just material to repair the section of the road with the drainage issue and that estimate was \$11,250 for material. Wellman Paving is doing the work for the Town of Hermon and the Whitehouse Motel and they submitted a price of \$8,991.50 to reclaim and pave the 300' of road that is owned by the Town of Hampden. The Public Works Director suggested using line striping monies in the current budget to do this work and not do line striping this fiscal year. Motion by Councilor Brann, seconded by Councilor Shakespeare to recommend to the Council that the paving/reclamation of the Town of Hampden section of

Littlefield Avenue be awarded to Wellman Paving for the cost of \$8,991.50. Unanimous vote in favor. This item will be on the Finance & Administration Committee agenda for consideration for funding on the July 7, 2014 agenda.

- E. Elm Street East Culvert – The Public Works Director presented the bids that had been received for the replacement of the culvert on Elm Street East. The bids ranged from a low of \$65,707 to a high of \$184,800. Maine Earth was the low bidder. They are a Hampden company and have done work successfully for the Town before. The bid is within a few thousand dollars of the contract estimate that had been prepared for the job. Motion by Councilor McPike, seconded by Councilor Sirois to award the contract to Maine Earth for a price of \$65,707. Unanimous vote in favor. This item will be forwarded to Finance & Administration for consideration of funding on the July 7, 2014 agenda. There was some confusion about the funding source for this project. The Town Manager explained that when the project was originally sent out for bid, it was supposed to be funded from Streets & Road Reserve. This project and the Route 1A sidewalk project in conjunction with MDOT were the ones scheduled for funding from that source in this fiscal year.
- F. Road Striping – No action was taken on this item since funding related to it is now slated to be used to pave/reclaim the Town of Hampden portion of Littlefield Avenue.

4. PUBLIC COMMENTS - None

5. COMMITTEE MEMBER COMMENTS

Chairman Ryder asked about bid progress for the pool roof and was told by the Public Works Director that they would be opened on July 24, and that bids for replacement of the diesel fuel tanks at the town garage are due that date as well.

Chairman Ryder also asked about wood harvesting at the Business Park so that the Town could take advantage of that stumpage associated with clearing for roads. Councilor Brann stated that the actual location of where those roads would be is still in question since Sargent is working with DEP on amending the original permit and due to the location of vernal pools. Councilor Sirois suggested moving this item to Planning & Development so that it could be handled concurrently with the Sargent proposal.

Chairman Ryder asked if there had been any clarification on putting gravel adjacent to the municipal parking lot to eventually provide for additional parking. The Manager stated that she had not checked the minutes to determine what was actually supposed to take place, but that there had been some confusion at the last Infrastructure Committee meeting on the issue. There was discussion among Committee members as to whether the additional parking was needed other than for major elections and large meetings in the Community Room. No decision was made on this item and the Manager will check the minutes from the earlier meeting as to what the plan was at that time.

Chairman Ryder asked what could be done to eliminate the rain gardens in front of the municipal building and instead plant grass in those areas. He indicated that they look terrible and that well-seeded and established grass would accomplish the same thing. The Public Works Director and the Town Manager explained that these were part of the Town's MS4 stormwater permit as passive means of treating stormwater runoff. Other Committee members expressed similar views as to the fact that these looked terrible. The Manager will bring back some proposals for improving this area to the next Infrastructure Committee meeting.

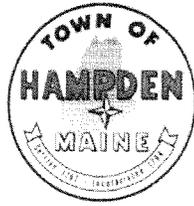
Councilor Brann thanked the Public Works department for the work done on Constitution to replace the collars on sewer manholes so that they were not all loose and 'floating'. He indicated that it was appreciated by people who live on that road.

Public Works Director Chip Swan notified the Committee that the new compactor for the zero-sort recycling had been installed and that we were set to begin that program on July 2, 2014. The Town Manager added that there would be an informational postcard going out to all Hampden addresses this week to notify residents of what was happening. She also noted that persons coming to the office for other business had expressed support for this new endeavor.

Motion by Councilor McPike, seconded by Councilor Sirois to adjourn at 6:50 p.m. Unanimous vote in favor.

Respectfully submitted,

Susan Lessard
Town Manager



2A

TOWN OF HAMPDEN
DEPARTMENT OF PUBLIC WORKS

106 WESTERN AVE.
HAMPDEN, ME 04444

TEL 862-3337

FAX 862-3910

July 24, 2014

To: Sue Lessard
From: Chip Swan
Subject: LAURA HOIT POOL ROOFING BID RESULTS

Below are the results of the recent Roofing bid opening on July 24th 2014

<u>BIDDER</u>	<u>OPT #1</u>	<u>OPT#2</u>
(1) WILLIAMS ROOFING	\$19,256.00	\$17,990.00 (2)
(2) MCLAUGHLIN BUILDERS	\$23,849.00	\$15,420.00 (1)
(3) D H PINETTE & SONS	\$27,720.00	-----
(4) HAHNEL BROS CO	\$34,945.00	\$29,775.00 (3)
(5) G R ROOFING	\$39,375.00	-----
(6) ROOF SYSTEMS OF MAINE	\$47,400.00	

We received 6 bids on Option #1 (Standing Seam) and 3 bids on Option #2 Corrugated metal.

Williams Roofing had a low bid of \$19,256.00 Option#1

Mclaughlin Builders had a low bid of \$15,420.00 for Option # 2

Yours truly,

Chip Swan, PWD



2B

TOWN OF HAMPDEN
DEPARTMENT OF PUBLIC WORKS

106 WESTERN AVE.
HAMPDEN, ME 04444

TEL 862-3337

FAX 862-3910

July 24, 2014

To: Sue Lessard
From: Chip Swan
Subject: MUNICIPAL GARAGE FUEL TANK BID RESULTS

Below are the results of the recent Roofing bid opening on July 24th 2014

<u>BIDDER</u>	<u>BID</u>
(1) SIMARD & SONS, INC	\$8749.00.00
(2) GAFTEX, LLC	\$10485.00
(3) PRECISION TANKS, INC	\$13830.00

We received 3 bids for the fuel tank.
Simard & Sons, Inc was low bid with \$8749.00

I recommend Simard & Sons, Inc with a low bid of \$8749.00
To provide and install fuel tank at Public Works garage.

Yours truly,

Chip Swan, PWD

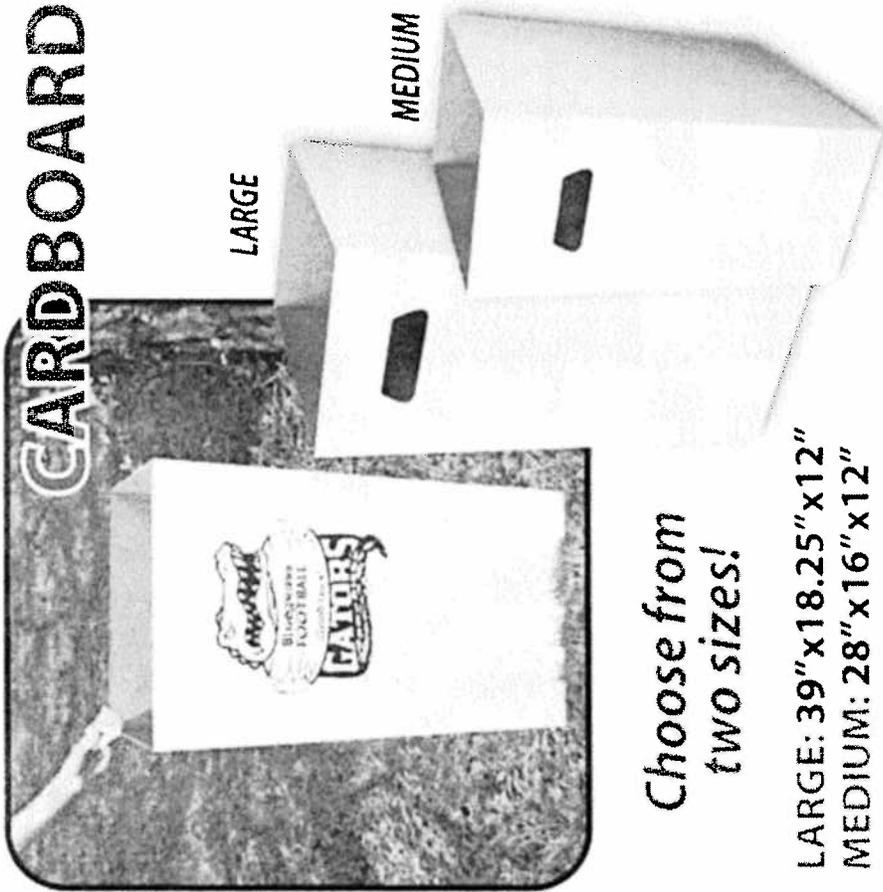
TOWN OF HAMPDEN

MUNICIPAL GARAGE
FUEL TANK
BID SHEET

July 24, 2014
10:15 AM

BIDDER	BID AMOUNT
Precision Tanks, Inc.	13,830.00
Simard & Sons, Inc.	8,749.00
Gaftek, LLC	10,485.00

CARDBOARD



LARGE

MEDIUM

Choose from
two sizes!

LARGE: 39" x 18.25" x 12"
MEDIUM: 28" x 16" x 12"

2c

Reusable, Recyclable and Disposable Trash Cans, Sturdy Cardboard - (6) Large Size - SET OF 6

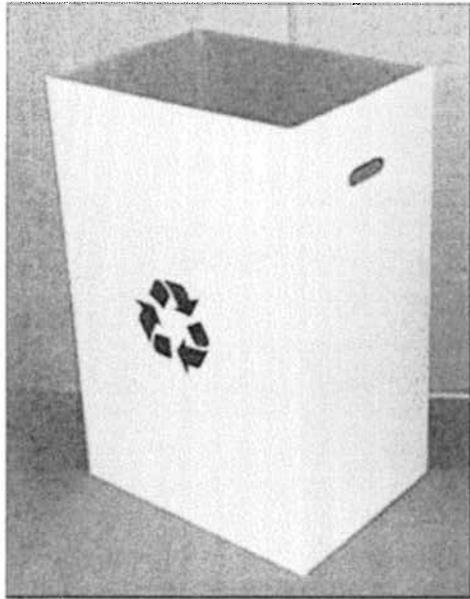
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[6 customer reviews](#)

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- This is our large can measures approximately 39"x18.25"x12".
- We've made our trash cans easy to move around by placing handle holes are each side
- Holds approximately 36.5 gallons



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\$7.95 \$5.95

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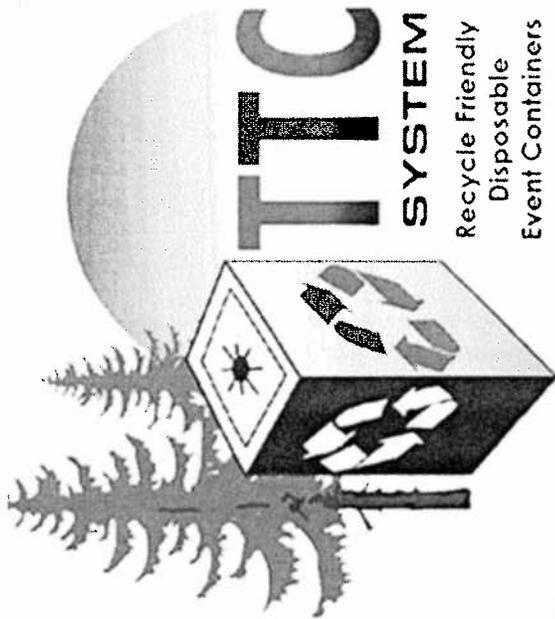
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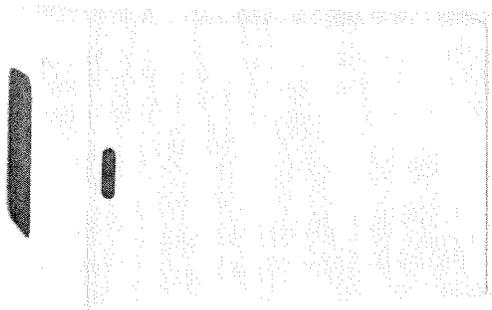
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Product 4/5

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- Container size: 18" x 18" x 32

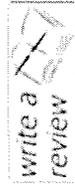
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- Qty: 375: (\$2,058.75)
- Qty: 500: (\$2,625.00)
- Qty: 1000: (\$4,990.00)

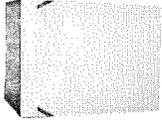
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34

TOWN OF HAMPDEN
DEPARTMENT OF PUBLIC WORKS

106 WESTERN AVE.
HAMPDEN, ME 04444

TEL 862-3337

FAX 862-3910

July 24, 2014

To: Sue Lessard
From: Chip Swan
Subject: Lead Mountain Properties, Inc

I attached a letter dated June 9, 2014 from Renee O'Donald requesting the Town to take ownership of a newly installed manhole on their project.

I had Greg Nash inspect the manhole and I have attached a letter from Greg stating the manhole was properly installed.

I would recommend taking ownership of this manhole.

Yours truly,

Chip Swan, PWD

Lead Mountain Properties, Inc.

862 North Road, Newburgh, Maine 04444

(207)848-3391

June 9, 2014

Chip Swan, Director

Public Works Department

Town of Hampden

106 Western Avenue

Hampden, Maine 04444

RE: 206 Western Avenue

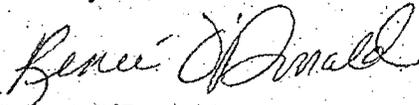
Hampden, Maine

Chip:

As you know we are building a new apartment complex at 206 Western Avenue and just recently had Hughes Bros., Inc. install a new manhole at the project site. This new manhole is within the MDOT right of way and we would like to have the Town of Hampden to take ownership of the new manhole. Again, this new manhole is within the MDOT right of way on Western Avenue.

If you have any other questions or require further information, please give me a call at the office. I look forward to discussing this with you.

Thank you.



Renee O'Donald

Nash Consulting
20 Nash Hill Road
Newburgh, Me 04444
Tel: 207-234-2650
E-mail: nshcon@uninets.net

To: Chip Swan

07/07/2014

From: Greg Nash

Subject: O'Donald Manhole

In regard to the subject project, everything is completed and tested as required.

This includes the following.

1. Manhole frame/cover raised to grade
2. Vacuum testing the sanitary manhole.
3. Interior pipes were grouted in place.
4. Manhole was wrapped with 6 mil poly 4 layers thick.
5. Manhole frame and cover was replaced with proper item.

Please let me know if I can be of any further assistance in this matter.

Yours Truly,

Greg Nash

Energy Analysis
Prepared for:

Hampden Recreation Department

Town of Hampden
106 Western Avenue

Hampden
Maine
04444

3B

Project Information:

Site:

1 Main Road
Hampden
Maine
04444

Contact:

Shelley Abbott
Director
207-862-6451
recreation@hampdenmaine.gov



Energy Analysis
Prepared by:

Everett McLeod

Outside Sales
CED / Gilman Electrical Supply
14 Perry Road

Bangor
Me
04401
207-947-0721
207-945-2926
emcleod@gilmanbangor.com



Project Individual Space Details:

Gym Lights

Existing Lighting Systems for Gym Lights

Fixture Type	Number of Fixtures	Lamp Type	Lamps Per Fixture	Ballast Type	Ballasts Per Fixture	Watts Per Fixture	Hours Use Per Year	Total System Wattage	Annual Energy Cost
400 Watt HPS High Bay	48	High-Pressure Sodium	1	Magnetic	1	460 W	3614	22.08 kW	\$12,768
Total	48							22.08 kW	\$12,768

Proposed Lighting Systems for Gym Lights

Fixture Type	Number of Fixtures	Lamp Type	Lamps Per Fixture	Ballast Type	Ballasts Per Fixture	Watts Per Fixture	Hours Use Per Year	Total System Wattage	Labor Cost Per Fixture	Material Cost Per Fixture	Total Installed Cost	Annual Energy Cost
8-Lamp T5HO High Bay	25	Linear Fluorescent	8	Hybrid	2	468 W	3614	11.70 kW				\$6,765
Total	25							11.70 kW				\$6,765

Lighting System Savings Summary for Gym Lights

Annual Energy Saving	37,513 kWh	Simple Payback (years)		ROI	0%	Number of Identical Spaces	1
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Project Space by Space Summary:

Space Name	Total Existing			Total Proposed			Total Savings			Total Project Cost	Simple Payback (Years)
	Load	Annual Energy Use	Annual Energy Cost	Load	Annual Energy Use	Annual Energy Cost	Load Savings	Annual Energy Savings	Annual Energy Cost Savin		
Total	22.08 kW	79,797	\$12,768	11.70 kW	42,284	\$6,765	10.38 kW	37,513	\$6,002		
Gym Lights	22.08 kW	79,797	\$12,768	11.70 kW	42,284	\$6,765	10.38 kW	37,513	\$6,002		

Energy Cost per kWh (¢)



Project Emissions Summary:

Geographic & Emissions Factors

Fuel Mix Used	State Regional National	CO2 (lb/kWh)	NOx (lb/kWh)	SO2 (lb/kWh)	Hg (lb/kWh)	PM-10 (lb/kWh)	PM-2.5 (lb/kWh)	VOC (lb/kWh)	CO (lb/kWh)
TGE	U.S. Averages	1.392	0.002967	0.006044	2.63E-08	0.000126	7.2E-05	3.1E-05	0.000248

Total Project Energy Savings Summary

Load Reduction	Annual Energy Use Savin	Annual Energy Cost Savings
10.38 kW	37,513 kWh	\$6,002

Total Project Emissions Reduction Summary

CO2 (lbs)	NOx (lbs)	SO2 (lbs)	Hg (lbs)	PM-10 (lbs)	PM-2.5 (lbs)	VOC (lbs)	CO (lbs)
52,218.54	111.30	226.73	0.000987	4.73	2.70	1.16	9.30

The emissions savings from this project are equivalent to driving the average gasoline powered passenger car 202 miles.



Glossary of Emissions Terms

CO - Carbon Monoxide

Carbon Monoxide is a colorless, odorless gas that is formed when carbon in fuel is not burned completely. CO is poisonous and at extremely high levels, can cause death.

CO₂ - Carbon Dioxide

Carbon Dioxide is released to the atmosphere when fossil fuels (oil, natural gas, coal, wood etc) are burned and is considered a primary greenhouse gas.

FGE, TGE - Fossil or Total Generated Emissions

Fossil or Total Generated Emissions refers to the fuel mix used to generate electricity. It is used to determine the factors to be applied in calculating the avoided environmental impact as a result of the energy efficiency measures undertaken in a project. Electricity generated only from the fossil fuels, coal, natural gas and oil would use the FGE values. Electricity generated by nuclear, wind, solar, geothermal and fossil fuels would use the TGE values. In some jurisdictions FGE values are used solely because fossil fuel generated electricity is used for peak electricity load and therefore any load reductions would first impact the fossil fuel generated electricity plants.

Hg - Mercury

Mercury is an element in the earth's crust. Pure mercury is a liquid metal, and has traditionally been used to make products like thermometers, switches, and some light bulbs. Mercury is found in many rocks including coal. When coal is burned, mercury is released into the environment. Coal-burning power plants are the largest human-caused source of mercury emissions to the air in the United States, accounting for about 40 percent of all domestic mercury emissions. Burning hazardous wastes, breaking mercury products, and the improper treatment and disposal of products or wastes containing mercury, can also release it into the environment. Mercury in the air eventually settles into water or onto land where it can be washed into water. Once deposited, microorganisms can change it into methylmercury, a highly toxic form that builds up in fish, shellfish and animals that eat fish. Fish and shellfish are the main sources of methylmercury exposure to humans.

NO_x - Oxides of Nitrogen

Nitrogen Oxides is the generic term for a group of highly reactive gases, all of which contain nitrogen and oxygen in varying amounts. NO₂ gives smog its yellowish-brown layer, which can cause visibility problems in many urban areas, most noticeably in national parks.

PM-10, PM-2.5 - Particulate Matter

Particulate Matter is the term for particles found in the air, including dust, dirt, soot, smoke, and liquid droplets. 10 and 2.5 refer to the maximum particle size in microns or millions of an inch.

SO₂ - Sulfur Dioxide

Sulfur Dioxide belongs to the family of sulfur oxide gases (SO_x). Over 65% of SO₂ released to the air, or more than 13 million tons per year, comes from electric utilities, especially those that burn coal. SO₂ reacts with other chemicals in the air to form tiny sulfate particles.

VOC - Volatile Organic Compounds

Volatile Organic Compounds are gases that combine with nitrogen oxides and sunlight to form ozone. Ozone has the same chemical structure whether it occurs miles above the earth or at ground level and can be "good" or "bad," depending on its location in the atmosphere. "Good" ozone occurs naturally in the stratosphere approximately 10 to 30 miles above the earth's surface and forms a layer that protects life on earth from the sun's harmful rays. In the earth's lower atmosphere, ground-level ozone is considered "bad" because ground-level ozone triggers a variety of respiratory health problems even at very low levels and damages plants and ecosystems.





FEATURES & SPECIFICATIONS

INTENDED USE — The IBZ fluorescent high bay is ideal for new construction and renovation projects. It is a one-for-one replacement of common metal halide high bay systems. The unique Cool Running Plus™ technology provides industry-leading, trouble-free operation in ambient temperatures up to 155°F (68°C). Applications include manufacturing, warehousing, commercial and industrial facilities. The IBZ fixture performs well at mounting heights from 15'-40'. **Certain airborne contaminants can diminish integrity of acrylic.** Click [here](#) for Acrylic Environmental Compatibility table for suitable uses.

CONSTRUCTION — The highly configurable design of the IBZ high bay allows for a multitude of fixture options that can either be factory- or field-installed. The easy-access ballast channel houses the proprietary Cool Running Plus technology, which is the most advanced fluorescent ballast technology available for fluorescent high bay lighting. It has independent lamp operation to reduce lamp maintenance costs, is fast-starting to improve occupancy sensing, and a proprietary thermal-sensing processor that allows for reliable operation in environments where ambient temperatures can reach up to 155°F (68°C).

In addition to the reliable operation of IBZ fixtures, the reflectors tightly control the distribution of light and effectively manage lamp heat to increase the overall efficiency. The result is superior optics in either narrow distribution for aisles, or wide distribution for general lighting. Installation is made quick and easy with IBZ hanging accessories such as the aircraft cable and single-point mounting bracket. IBZ fixtures can be factory-wired to have both sensors and cord sets, further reducing installation time. The configurability, performance and ease of installation make IBZ fixtures the preferred choice for fluorescent high bay lighting.

Channel is formed of heavy-duty code-gauge (22-gauge) steel to stand up to the most demanding elements. Lamp holder assembly protects from incidental damage or movement of sockets during handling and installation. Lamp holders (sockets) are manufactured from PBT (polybutylene terephthalate) material for increased chemical resistance along with secure positioning rotating collars and enclosed contacts. Access plate on the back of the channel housing allows quick and easy wiring.

Finish: Channel is high-gloss white baked enamel; five-stage iron phosphate pretreatment ensures superior paint adhesion and rust resistance.

OPTICS — Two optical systems are available. Narrow distribution is ideal for narrow or aisle lighting applications and features precision-formed segmented optics utilizing specular aluminum reflector. Provides 95% reflectivity and warranted for 25 years. Wide distribution includes high-reflectance white finish for general or open areas.

ELECTRICAL — Thermally protected, resetting, Class P, HPF, A sound-rated electronic ballast. AWM TFM or THHN wire used throughout rated for required temperatures. Ballast disconnect (BDP) is standard unless EL14 or cord set is requested.

INSTALLATION — Suitable for suspension by chain, cable, surface-mounting bracket, hook monopoint or single (pendant) monopoint. Surface mounting not recommended without optional surface mounting bracket. To maintain high ambient listing, fixture should be mounted at a minimum plenum height of 8".

LISTINGS — CSA Certified to U.S. and Canadian safety standards (UL 1598 and CSA 250.0-08) for 55°C and 40°C lensed. Suitable for damp locations.

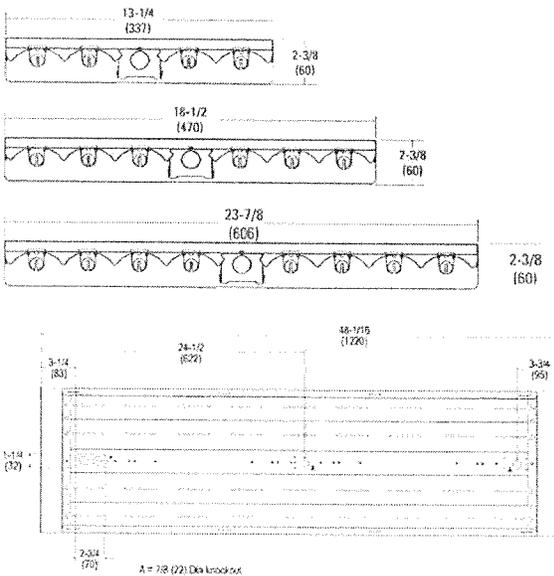
WARRANTY — 1-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Actual performance may differ as a result of end-user environment and application.

Note: Specifications subject to change without notice.

DIMENSIONS

Dimensions may vary with options or accessories.



Catalog Number
Notes
Type



Fluorescent High Bay

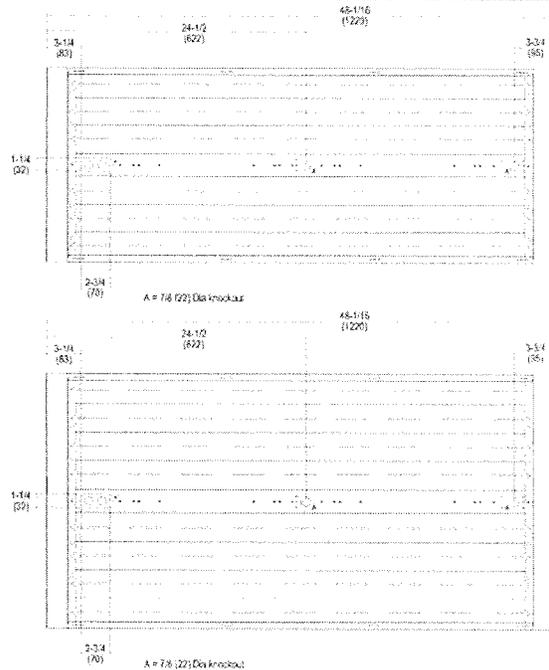
IBZ

4-, 6- or 8-lamp T5HO
Patent Pending



SPECIFICATIONS				
	Length	Width	Depth	Weight
4-lamp	48-1/16 (1221)	13-1/4 (337)	2-3/8 (60)	16 lbs. (7.3 kg)
6-lamp	48-1/16 (1221)	18-1/8 (460)	2-3/8 (60)	20 lbs (9.1 kg)
8-lamp	48-1/16 (1221)	23-7/8 (606)	2-3/8 (60)	25 lbs. (11.3 kg)

All dimensions are inches (millimeters) unless otherwise specified and may vary with options or accessories.



IBZ Fluorescent High Bay, T5HO

Example: IBZ 454L

IBZ		For shortest lead times, configure products using standard options (shown in bold).					
Series	Lamp type	Distribution	Shielding ^{2,3}	Voltage	Ballast configuration	Ballast ⁴	
IBZ For tandem double-length unit, add prefix "T". Ex: TIBZ	Lamps installed¹	(blank)	Narrow distribution, ≤5% uplight	(blank)	No shielding	(blank)	Cool Running Plus TS electronic, 1.0 BF, programmed rapid start
	454L 4-lamp 54W T5HO	NDU	Narrow distribution, enhanced uplight, ≤13% uplight	A1212S	Pattern 12 acrylic, 0.125" ⁴	HVOLT 347V-480V ⁵	GEB10P590 TS electronic, 1.0 BF, programmed rapid start
	654L 6-lamp 54W T5HO			ACL	Clear acrylic, 0.125" ⁴		
	854L 8-lamp 54W T5HO	WD	Wide distribution, ≤5% uplight	PCL12S	Clear polycarbonate, 0.125" ⁴	4-lamp = (1) 4-lamp ballast 6-lamp = (1) 2-lamp and (1) 4-lamp ballast 8-lamp = (2) 4-lamp ballasts	
	Unlamped			NLWG	No lens; wireguard in door frame		
	454 4-lamp 54W T5HO						
	654 6-lamp 54W T5HO	WDU	Wide distribution, enhanced uplight, ≤13% uplight				
854 8-lamp 54W T5HO							

Lamp color	Options
(blank) F54T5HO/841	GLR Internal fast-blow fuse ^{8,9}
LP835 F54T5HO/835	GMF Internal slow-blow fuse ^{8,9}
LP850 F54T5HO/850	EL14 Emergency battery pack ^{8,10,11}
Amalgam lamps⁷	EL14SD Emergency battery pack w/ self-diagnostics ^{8,10,11}
LP841A F54T5HO/841	I162 1250 lumens per lamp battery ^{10,11,12}
LP835A F54T5HO/835	OUTCTR Wiring leads pulled through back center of fixture ³
LP850A F54T5HO/850	OCS RELOC™ OnePass™ S' installed ⁸
Energy-saving 49W lamps	IMP Integrated modular plug ^{13,24}
P841E49 F54T5HO/841	FSP Integral full side panels
P835E49 F54T5HO/835	HBBSIC Chain hanger (pair)
P850E49 F54T5HO/850	HBBS36IC Chain hanger with 36" chain (pair)

Cord sets:	Motion sensors:
CS1W Straight plug, 120V ^{14,15}	MS1 Aisle motion sensor, pre-wired ¹⁶
CS3W Twist-lock, 120V ^{14,15}	MSI360 360° motion sensor, pre-wired ¹⁶
CS7W Straight plug, 277V ^{14,15}	MSE360 360° motion sensor, embedded ^{8,17}
CS11W Twist-lock, 277V ^{14,15}	MSE360LB 360° motion sensor, embedded ^{8,18}
CS25W Twist-lock, 347V ^{14,15}	XP1 XPoint single relay ¹⁹
CS97W Twist-lock, 480V ^{14,15}	XP2 XPoint double relay ¹⁹
CS93W 600 SO white cord, no plug (no voltage required) ^{14,15}	Wireguards:
	WGX External wireguard installed
	2WGX External wireguard installed on bottom of fixture ²⁰

Accessories: Order as separate catalog number.

Mounting:	Field-installable door and lens assemblies: ^{22,23}	Cord sets and sensors for IMP option:	Wireguards:
IBAC120 M20 Aircraft cable 10' with hook (one pair)	DLIBZ14 A1212S 4-lamp pattern 12 acrylic lens, 0.125" ^{22,23}	CS1WIMP Straight plug, 120V ^{8,14,15}	WGIBZ14 Standard 4-lamp wireguard
IBAC240 M20 Aircraft cable 20' with hook (one pair)	DLIBZ14 ACL 4-lamp clear acrylic lens ^{22,23}	CS3WIMP Twist-lock, 120V ^{8,14,15}	WGIBZ19 Standard 6-lamp wireguard
IBHMP Hook monopoint	DLIBZ14 PCL12S 4-lamp clear polycarbonate lens, 0.125" ^{22,23}	CS7WIMP Straight plug, 277V ^{8,14,15}	WGIBZ24 Standard 8-lamp wireguard
IBZACVH Aircraft 10' V hanger (one pair)	DLIBZ19 A1212S 6-lamp pattern 12 acrylic lens, 0.125" ^{22,23}	CS11WIMP Twist-lock, 277V ^{8,14,15}	
IBZTFC Tandem coupler and side panel	DLIBZ19 ACL 6-lamp clear acrylic lens ^{22,23}	CS25WIMP Twist-lock 347V	
IBZPMP Pendant monopoint splice box, includes side covers ²¹	DLIBZ19 PCL12S 6-lamp clear polycarbonate lens, 0.125" ^{22,23}	CS93WIMP 600V SO white cord, no plug (no voltage required) ¹⁴	
IBZPMPHB Pendant monopoint splice box, includes side covers (3/4" hub) ²¹	DLIBZ24 ACL 8-lamp clear acrylic lens ^{22,23}	CS97WIMP Twist-lock 480V	
HBBS36 Chain hanger, 36" (one pair)	DLIBZ24 PCL12S 8-lamp clear polycarbonate lens, 0.125" ^{22,23}	MSIMP Aisle sensor ^{8,24}	
IBZSMB Surface-mounting bracket (one pair)		MSI360IMP 360° sensor ^{8,24}	

Notes

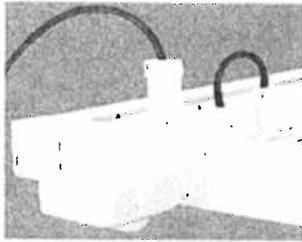
- Lamps installed are F54T5HO/841 unless otherwise specified.
- 5/55" warranty with open fixtures only.
- Not available with MSE360 option.
- For wireguard in door frame, add "WG" to shielding. Ex: A1212SWG.
- Nonstandard configurations may require factory installed BACKPACK™. Consult factory.
- Certain ballast may require a BACKPACK™ installed by the factory in order to accommodate the size of the battery. The BACKPACK is NOT field installable. May only be surface mounted using IBZSMB. Not available with pendant mount using IBZ PMP or IBZ PMPHB. Not available with IMP.
- Not for use with motion sensors.
- Specify voltage. Consult factory for Canadian applications.
- Not available with 347 voltage.
- Battery options require a BACKPACK™ installed by the factory in order to accommodate the size of the battery. The BACKPACK is NOT field installable. May only be surface mounted using IBZSMB. Not available with pendant mount using IBZ PMP or IBZ PMPHB. Not available with IMP.
- Certified to UL 1598 (approx. 1100 lumens at 25°C when using 49W lamps, and 911 lumens at 45°C). Single-lamp operation only. 120 or 277 voltage only.
- Max 2500 lumens when used with 54W T5 lamps up to 55°C ambient temperature (120 or 277 voltage only).
- Must be factory-installed. Not available on TIBZ 16-lamp configurations.
- All cord sets are 18/3, 6', white.
- Cord sets are voltage specific. Specify voltage. Other configurations available. Consult factory.
- Specify voltage; 120, 208, 240, 277, 347 or 480.
- Recommended for heights of 30-40'. Not available with lensed units. 120, 277 or 347 voltage only.
- Embedded sensor. For mounting heights up to 20', not available with lensed units. 120, 277 or 347 voltage only.
- Contact L&D for additional system components required.
- One wireguard shipped as separate line item for top installation in field. Not available with IBZPMP.
- When ordering IBZPMP, two-ballast configurations are recommended. Ex: 2F2. Not available with tandem units. Not available with any battery pack.
- Not available with MSE360 or MSE360LB.
- Add WG to nomenclature if wire guard is to be installed in door frame, ex: DLIBZ14 A1212SWG.
- Must have "IMP" power cord to power fixture.

IBZ A54

IBZ Fluorescent High Bay, T5HO

OPTIONS AND ACCESSORIES

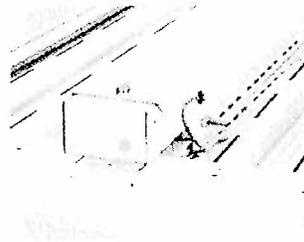
The I-BEAM fixture offers numerous options for almost every electrical and optical component, including a long list of field-installable accessories.



INTEGRATED MODULAR PLUG (IMP)

Must be factory-installed and allows for field installation of various modular accessories including cordsets, motion sensors, photocells and LC&D XPoint™ relays. Requires IMP cordset for operation.

Order as:
IMP



IBZ BACKPACK™

Electrical box must be factory-installed to house additional components such as emergency ballasts, step-down transformers and dimming ballasts. Extended brackets allow air flow for increased heat management of all components.

Factory-installed.



V-SHAPED WIRE GUARD (external)

Flex on impact to absorb shock, reducing damage to the fixture assemblies. Wire guards can be mounted on top and bottom of fixtures to provide full protection.

Factory-installed option:
WGX
2WGX

Field-installed option:
WGIBZ14
WGIBZ19
WGIBZ24



TANDEM CAPABILITY

Supports applications requiring high luminance and high mounting heights. The 8' tandem option is factory-assembled with continuous steel side panels and tensioning couplers. Tandem kits are also available for field installation.

Factory-installed option:
T1BZ

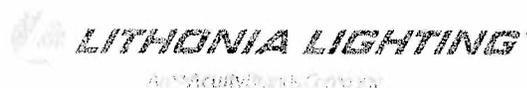
Field-installed option:
IBZTFC



PENDANT MONOPOINT BRACKET

Accepts 3/8" rigid conduit for single-point mounting. The bracket can be adjusted to help counterbalance fixture to offset weight variance from end to end.

Order as:
IBZPMP
IBZPMPHB



REF-034

30



Hampden Recreation

Skehan Recreation Center

1 Main Road North (physical)
106 Western Avenue (mailing)
Hampden, ME 04444
207-862-6451
recreation@hampdenmaine.gov

July 1, 2014

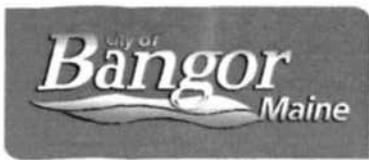
Hampden Town Council:

I am writing on the behalf of Bronco Little League to request permission to permanently establish a Little League Batting Cage presently located in the rear parking lot edge of the Ballfield Road Facility. Currently the batting cage is a temporary, home back yard quality set up. They will be replacing the existing equipment with a telephone pole set up changing the width slightly and lengthening the cage distance. This change is being requested to create a more appropriately sized permanently affixed cage. The location will remain the same for the cage, and additional space required will not affect the parking lot spacing, or required property line set backs.

Nancy Poulin, Bronco Little League, will work with town staff Shelley Abbott, Ben Johnson, Bob Osborne, and Chip Swan, to work through the process of meeting any necessary set-backs, modify any site plans, permitting as required, and contacting dig safe. Little League has arranged for a parent volunteer from Verizon (Matthew Polo) to remove, transfer, and replant the telephone support poles at the new location. The time frame for this project to be completed for the 2015 season would be after the spring season (mid July to mid August) or after the fall league play (late October).

Thank you for your consideration of this request.

Shelley Abbott
Recreation Director



Patty Hamilton FNP
Director

Jamie Comstock
Health Promotion Manager
Bangor Public Health & Community Services
103 Texas Ave.
Bangor, ME 04401

3D

July 2, 2014

Susan Lessard
Town of Hampden
106 Western Ave.
Hampden, ME 04444

Dear Ms. Lessard:

I am writing to introduce the Rural Active Living Assessment (RALA), which provides information that helps measure the "friendliness" of a community for physical activity.

As a part of Healthy Maine Partnerships, we would like to collaborate with you and your town to complete the RALA. The process consists of a quick assessment of your municipalities programs and policies with regard to biking and walking, and then a physical audit of several roads in your town.

Towns across the state are participating in this initiative; because the RALA captures a baseline for a community's bikeability and walkability, many towns are using the tool to in their fundraising efforts to improve biking and walking infrastructure.

We would like to schedule a time to talk with you (either by phone or in person) about conducting the Rural Active Living Assessment in Hampden. Typically the policy assessment can be conducted over the phone in a matter of minutes.

I have attached an info sheet with more details about RALA; and Assistant Public Health Educator Tracie Goldsmith, who will be conducting the assessments, is happy to answer any further questions you have as we move along with this process. You can reach Tracie at (207) 992-4531 or tgoldsmi@bowdoin.edu.

Thank you!

Sincerely,

Jamie Comstock



Rural Active Living Assessment* (RALA)

What is it?

RALA tools assess the physical environment features and amenities, town characteristics, community programs, and policies that affect physical activity among residents in rural communities.

This tool will allow you to assess the “friendliness” of your community for walking, biking and playing (especially among youth). It also provides a structure for assessing the programs and policies that might help to overcome an “unfriendly” environment.



Who should use the RALA?

This tool is primarily intended for use in communities with populations less than 10,000.

What factors make up a “rural” town?

In the physical domain, a rural town may be described in terms of factors such as, road density, types and density of intersections, presence or absence of a town common or town center (or multiple town centers), as well as natural features such as hills and rivers.

What is involved?

The RALA tools include three separate components:

- 1) Town-Wide (18 town characteristic questions and inventory of 15 recreational amenities)
- 2) Program and Policy (20 questions)
- 3) Street Segment Assessments (28 questions)

These three assessment instruments are designed to be used together and provide a comprehensive measure addressing many of the unique factors believed to be important to active living in rural communities.

Bangor Public Health and Community Services will provide technical assistance in completing the RALA components in your community.

What do we do with the information after completing the assessment?

- 1) Identify interventions to help your community become more active and healthy
- 2) Identify opportunities for improvements to access
- 3) Use the information as data for applications for future funding opportunities



Public Works Survey - *For Comparison*
 (including Winter Summer Road Maintenance, paving, buildings grounds maintenance cemetery maintenance)

3E

Community Name	Population	Miles/Rd maintained		# FT Employees	# PT Employees	# Seasonal Employees	Maintain Sewer	Maintain Cemeteries	Maintain Rec Fields	Maintain Parks	Public Works Budget	Paving
		Summer	winter									
Caribou	8043	75	75	18	0	2	No	No	No	No	\$1,904,181.63	\$320,000.00
Eliot	6260	51	77	4	2	1	yes	yes (12)	no	yes (3)	\$742,368.00	\$465,000.00
Ellsworth	7015	63	91	12	0	2	No	Yes (4)	Yes (3)	Yes (4)	\$1,230,000.00	\$400,000.00
Fairfield	6764	56	64.5	11	1	3	Yes	Yes (4)	Yes (4)	Yes (3)	\$1,111,116.00	\$220,000.00
Farmington	7489	80	103.8	8	0	2	No	Yes (14)	No	No	\$1,053,087.00	\$306,000.00
Old Town	7840	77.5	77.5	14	3	5	No	Yes (5)	Yes (1)	Yes (8)	\$1,433,509.00	\$375,000.00
Hampden	7257	80	56	12	2	0	Yes	Yes	Yes	Yes	\$1,284,859.00	\$239,500.00
Orono	9947	60	89	11	1	1	No	Not mowing	Yes	Yes(7)	\$1,394,014.00	\$472,500.00