

**City of Newburyport Planning Board  
Application for a SPECIAL PERMIT**

Petitioner: Ganton LLC c/o Lisa Mead, Mead, Talerman & Costa LLC

Address: 30 Green Street, Newburyport MA 01950

Phone: 978 463 7700

Owner: Ganton LLC

Address: 210 Commerce Way, Sutie 100 Portsmouth NH 03801

Phone: \_\_\_\_\_ Years owned land: 13 years

Site Address: 372 Merrimac, 341 Merrimac, 10 Ashland Court

Assessor's Map and Lot(s): 68/27, 29,154,155 Zoning District: I-2

Book and Page #: See attached or Certificate of Title: \_\_\_\_\_

**Ordinance section where relief is being requested:**

- One residential structure per lot (VI.C)
- Floodplain (XIII)
- Open Space Residential Development (XIV)
- Water Resource Protection District (XIX)
- Federal Street Overlay District (XXII)

- Courts and Lanes (XXIII)
- Waterfront West Overlay District (XXIV)
- Towle Complex Redevelopment Overlay District (XXV)
- Downtown Overlay District (XXVII)

Sectn V-D I-2

**Describe the Special Permit request:**

Add professional office use to site.

**Petitioner and Landowner signature(s):**

Every application for a Special Permit shall be made on this form, which is the official form of the Planning Board. It shall be the responsibility of the petitioner to furnish all supporting documentation with this application. The dated copy of this application received by the City Clerk or Office of Planning and Development does not absolve the applicant from this responsibility. Failure to comply with application requirements as cited herein may result in the Planning Board dismissing the application as incomplete.

Signature of petitioner/owner: 

Print name(s) here: Michael Kane



Mead, Talerman & Costa, LLC  
Attorneys at Law

30 Green Street  
Newburyport, MA 01950  
Phone 978.463.7700  
Fax 978.463.7747

www.mtclawyers.com

November 16, 2017

By Hand

Bonnie Sontag, Chair  
Planning Board  
City of Newburyport  
City Hall  
60 Pleasant Street  
Newburyport, Massachusetts 01950

Re: Request for Permit Denial;  
372-376 and 341 Merrimac Street and 10 Ashland Court, Newburyport, MA (the  
“Property”);  
Assessor’s Map: 68 Lots 27, 29, 154 and 155

Dear Chair and Members of the Board;

Reference is made to the above-captioned matter. In that connection, this firm represents Ganton LLC (the “Petitioner”), relative to the interior remodeling at the Property for the purpose of adding a new use, namely Professional Offices (use 416) on the Property<sup>1</sup>. There will be no exterior changes, but for potential change out of doors, to the structures on the Property and there will be sufficient parking at the Property (335 provided 289 required) so no new parking spaces will be constructed. The Property is in the I-2 Zoning District of the Newburyport Zoning Ordinances (the “NZO”). Currently the structure on the property is non-conforming for side and front setbacks and lot coverage. I have attached the floor plans by use for your information.

The proposed use requires a Special Permit from the Planning Board pursuant to the recent zoning amendment to the table of uses in section V-D. No new parking spaces will be added and no additional square footage will be added to the building therefore the proposal does not trigger section X-V(C) of the NZO given the foregoing and no Site Plan Review will be required.

### Special Permit for Use

The existing use of the Property is as light manufacturing and research and development facility with associated office space and industrial storage. The Applicant seeks to add a new use to the site, Professional Office and reconfigure the existing uses inside the building to allow for this new use. Professional Office Space is permitted in the I-2 Zoning District by Special Permit from the Planning Board in accordance with Section X-H(7) of the NZO. The following criteria apply:

<sup>1</sup> Currently the property includes light manufacturing and research and development uses with ancillary storage and related office.

*Millis Office*

730 Main Street, Suite 1F  
Millis, MA 02054  
Phone 508.376.8400

1. The use requested is listed in the table of use regulations or elsewhere in the ordinances [as] requiring a special permit in the district for which application is made or is similar in character to permitted uses in a particular district but is not specifically mentioned.

As noted above, the Property is located in an I-2 zoning district where Professional Office is permitted with a special permit.

2. The requested use is essential and/or desirable to the public convenience or welfare.

As the Board is aware, the Mersen facility has long existed as a manufacturing facility in Newburyport. Given the changes in the economy the manufacturing portions of the use have diminished, and the Applicant is attempting to fully utilize the building so that it becomes a productive asset to the City. The additional use of Professional Office will alleviate some of the pressure on the unused portions of the Mersen operation and allow the Applicant to more fully utilize the facility. Providing marketable Professional Office space on the scale proposed fills a void in the Newburyport market. The additional office space will keep growing businesses in Newburyport which helps grow or retain the city employment base and add personal property taxes to the tax base.

By recognizing this as a special permit use in the I-2, the City Council has acknowledged that this use will be desirable to the public convenience and welfare of the City. Therefore, it is appropriate and desirable, where there is sufficient area and frontage to allow a two-family use to provide a diversity of housing in the City.

3. The requested use will not create undue traffic congestion, or unduly impair pedestrian safety.

The addition of office use on the site in place of a portion of the light manufacturing has a slight reduction on the traffic generated from the use of the facility. Please see attached report from Patrick Crimmins, P.E. of Tighe & Bond, Inc. which concludes "...the proposed building program is anticipated to generate a net reduction in trips from the existing building program. This reduction in vehicle trips is a result of the change in building square footage for the different uses indicated in the CBT Building Area Analysis." (Said Report and analysis is Attached as Exhibit A.)

As a result, the Board can find the requested use will not create undue traffic congestion or unduly impair pedestrian safety.

4. The requested use will not overload any public water, drainage or sewer system or any other municipal system to such an extent that the requested use or any developed use in the immediate area or in any other area of the city will be unduly subjected to hazards affecting health, safety or the general welfare.

According to the architect, the building currently has 33 toilet fixtures estimated to consume 3.5 gallons per flush. During renovation, new toilet room facilities will be provided to meet the current Plumbing Code. The architect estimates that if the light industrial use (R&D, equipment testing) were to become more densely occupied as the nature of R&D becomes more desktop oriented, the code would require an additional five fixtures for a total of 38 fixtures after renovation; the proposal is to provide these added fixtures with the current renovations.

The new fixtures will consume no more than 1.8 gallons per flush. Current water consumption is based on (33 fixtures x 3.5 gpf =) 115.5 gallons, while predicted future consumption will be based on (38 fixtures x 1.8 gpf =) 68.4 gallons, or about 60% as much. There is an existing employee cafeteria in the building which will be replaced

during renovation. Any modest increase in demand at the replacement cafeteria will be compensated by the combination of more water-efficient appliances in the cafeteria, and by the substantial reduction in water use for the toilet and washroom facilities.

There will be no changes to the parking lot and therefore no impacts to storm water are triggered.

5. Any special regulations for the use, set forth in the special permit table are fulfilled.

There are no special regulations for professional office use exist in the Ordinance.

6. The requested use will not impair the integrity or character of the district or adjoining districts, nor be detrimental to the health or welfare.

The addition of Professional Office use is consistent with the I-2 zoning district and the integrity and character of the neighborhood. Currently, the I-2 at this location is an island amongst marine use, single family and two family uses, other commercial uses. The addition of professional office will not impair the integrity of the neighborhood, in fact, it is likely with less light industrial use there will be less large truck deliveries to the site. As a result, the new use will not impair the integrity of the neighborhood nor be detrimental to the health or welfare of the residents and near-by businesses.

7. The requested use will not, by its addition to a neighborhood, cause an excess of that particular use that could be detrimental to the character of said neighborhood.

As noted above, the Professional Office use is consistent in the varied uses in the surrounding districts but given that it is the only building in the I-2 district in this location, it will not cause an excess of this particular use or be detrimental to the neighborhood.

8. The proposed use is in harmony with the purpose and intent of this ordinance.

The use of Professional Offices is in harmony with the purpose and intent of the ordinance. Section I-C of the Ordinance provides, among other purposes; to conserve the value of property, with due consideration for the character of the zones and their peculiar suitability for particular uses. The new use in this facility will conserve the value of the property by allowing potential full use thereof and helping to prevent it from becoming a shell not contributing to the community's economic base. The use is completely within the character of the I-2 zone and given its unique location is suitable for the use of the building.

9. The proposed use shall not be conducted in a manner so as to emit any dangerous, noxious, injurious or otherwise objectionable fire, explosion, radioactive or other hazard, noise or vibration, smoke, dust, odor or other form of environmental pollution.

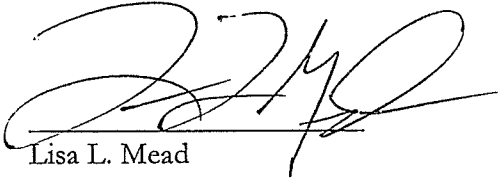
Professional Office use will not be conducted in a manner which will have a noxious effect on the environment. Indeed, the reduction of light manufacturing will improve impacts on the environment, if any at all.

While the Applicant is not required to undergo Site Plan Review, the Applicant has heard the concerns of the

neighbors regarding the lighting on the parking lot portion of the property. To that end, the Applicant will be removing the existing poles and fixtures and will be undertaking the replacement of the lights on the parking lot with a dark sky compliant lighting scheme. You will see from the attached cut sheets the lights will be LED and will be down lighting. The photometric plan shows that there will be no spill over from the property to the east and to the west. The lights will provide needed lighting on Merrimac Street between the building and the parking lot. I have attached the photometric plan, a cut sheet of the fixtures as well as the specifications.

As a result, the applicant requests the Board grant a special permit to add Professional Office use to the building.

Respectfully submitted,  
Ganton LLC  
By Its Attorney



Lisa L. Mead

Tighe & Bond Letter  
With Area Allocation and Parking Table

K-0076-8  
November 15, 2017

Mr. Michael Kane  
The Kane Company  
210 Commerce Way, Suite 300  
Portsmouth, New Hampshire 03801

Re: **Trip Generation Analysis**  
**374 Merrimac Street, Newburyport**

Dear Michael:

As requested, Tighe & Bond has performed a vehicle trip generation analysis related to the proposed change in building program at 374 Merrimac Street in Newburyport, Massachusetts. This analysis was performed utilizing the Institute of Transportation Engineers (ITE) Trip Generation Manual, latest edition. Vehicle trips were calculated based on a building area analysis prepared by the CBT Architects, the project architect. The following is a list of the building uses indicated in the CBT building area analysis and the corresponding ITE Land Use Codes (LUC) that were used to calculate total daily trips, weekday morning peak hour trips and weekday evening peak hour trips for this trip generation analysis:

Existing/Proposed Use	LUC
Mersen – Office related to Light Industrial	710 – General Office
Mersen – Light Industrial/Research & Development	110 – General Light Industrial
Professional Office	710 – General Office
Industrial Service/Storage	150 – Warehousing

The following tables provide a comparison of trips generated by the existing and proposed building programs. Supporting information for these tables including CBT's building area analysis and trip generation calculations are enclosed with this letter.

Existing Building Program				
Use	LUC	Daily	Weekday AM Peak Hour	Weekday PM Peak Hour
Mersen – Office related to Light Industrial	710	939	133	127
Mersen – Light Industrial/Research & Development	110	251	33	35
Professional Office	710	N/A	N/A	N/A
Industrial Service/Storage	150	12	2	2
<b>TOTAL TRIPS</b>		<b>1,201</b>	<b>167</b>	<b>163</b>

<b>Proposed Building Program</b>				
<b>Use</b>	<b>LUC</b>	<b>Daily</b>	<b>Weekday AM Peak Hour</b>	<b>Weekday PM Peak Hour</b>
Mersen – Office related to Light Industrial	710	165	23	22
Mersen – Light Industrial/Research & Development	110	169	22	23
Professional Office	710	699	99	94
Industrial Service/Storage	150	12	2	2
<b>TOTAL TRIPS</b>		<b>1,045</b>	<b>146</b>	<b>142</b>

As depicted in the tables above, the proposed building program is anticipated to generate a net reduction in trips from the existing building program. This reduction in vehicle trips is a result of the change in building square footage for the different uses indicated in the CBT Building Area Analysis.

Please feel free to contact me at 603.433.8818 or [pmcrimmins@tighebond.com](mailto:pmcrimmins@tighebond.com) if you have any questions.

Very truly yours,

**TIGHE & BOND, INC.**



Patrick M. Crimmins, P.E.  
Project Manager

Enclosures: CBT Building Area Analysis  
Trip Generation Calculations





Kane Properties -  
 374 Merrimac St, Newburyport  
 (rev 1.3: 15 November 2017)

Proposed Space Use:

space use:	GFA area:	parking required for proposed use number:	(basis)
<b>MERSEN:</b>			
Office related to Light Industry [use 606 & 602 per Newburyport zoning]	15,000	50.0	0.75/employee
Light Industrial/Research and Development [use 606 & 602 per Newburyport zoning ordinance]	24,200	25.1	0.75/employee
<b>Professional Office</b> (including employee cafeteria accessory to office use) [use 416 per Newburyport zoning ordinance]	63,400	211.3	1/300 GFA
<b>Industrial Service/Storage</b> [use 607 per Newburyport zoning ordinance]	41,100	3.0	0.75/employee
<b>Totals (initial light industrial):</b>	<b>143,700</b>	<b>289</b>	

\* the atrium will not be occupied, will not create parking demand, and will not generate traffic; but it will be area that is added back in to lease areas on a pro-rata basis -- so it generates rent.

Existing Space use:

GFA area:	parking required for existing use number:	(basis)
85,100	283.7	0.75/employee
36,000	14.3	0.75/employee
35,200	3.0	0.75/employee
<b>156,300</b>	<b>301</b>	

Atrium:  
 Part of S. Mezz deleted:  
 Part of N. Mezz deleted:  
 "Shed" removed:

area delta:

GFA area	Notes:
-70,100	reduced need
-11,800	reduced need
63,400	increased leasable area
5,900	increased lease
<b>-12,600</b>	<b>difference in area</b>
6,100	*leasable but unoccupied
1,100	these three
900	areas removed from
4,500	existing existing structure
<b>12,600</b>	

Existing Building Program																
Use	Description/ITE Code	Units	Vehicle Trip Generation Rates *						Expected Units	Total Generated Trips			Total Distribution of Trips			
			Weekday	AM	PM	AM In	AM Out	PM In		PM Out	Daily	AM Hour	PM Hour	AM In	AM Out	PM In
Merser	General Office 710	KSF <sup>2</sup>	11.03	1.56	1.49	88%	12%	17%	83%	85.1	133	127	117	16	22	105
Merser	General Light Industrial 110	KSF <sup>2</sup>	6.97	0.92	0.97	88%	12%	12%	88%	36.0	33	35	29	4	4	31
Professional Office	General Office 710	KSF <sup>2</sup>	11.03	1.56	1.49	88%	12%	17%	83%	0.0	0	0	0	0	0	0
Industrial Service/Storage	Warehousing 150	Employees	3.89	0.51	0.59	72%	28%	35%	65%	3.0	2	2	1	0	1	1
									1,201	167	163					

Proposed Building Program																
Use	Description/ITE Code	Units	Vehicle Trip Generation Rates *						Expected Units	Total Generated Trips			Total Distribution of Trips			
			Weekday	AM	PM	AM In	AM Out	PM In		PM Out	Daily	AM Hour	PM Hour	AM In	AM Out	PM In
Merser	General Office 710	KSF <sup>2</sup>	11.03	1.56	1.49	88%	12%	17%	83%	15.0	23	22	21	3	4	19
Merser	General Light Industrial 110	KSF <sup>2</sup>	6.97	0.92	0.97	88%	12%	12%	88%	24.2	22	23	20	3	3	21
Professional Office	General Office 710	KSF <sup>2</sup>	11.03	1.56	1.49	88%	12%	17%	83%	69.4	99	94	87	12	16	78
Industrial Service/Storage	Warehousing 150	Employees	3.89	0.51	0.59	72%	28%	35%	65%	3.0	2	2	1	0	1	1
									1,045	146	142					

\* Based on ITE Trip Generation Rates - 9th Edition

Kane Properties -  
 374 Merrimac St, Newburyport  
 (rev 1.3: 15 November 2017)

**Proposed Space Use:**

space use:	GFA area:	number:	(basis)
<b>MERSEN:</b>			
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**Existing Space use:**

GFA area:	number:	(basis)
35,400	118.0	0.75/employee
36,000	14.3	0.75/employee
49,700	165.7	1/300 GFA
35,200	3.0	0.75/employee
<b>156,300</b>	<b>301</b>	

**area delta:**

GFA area	Notes:
-20,400	assume reduced need
-11,800	assume reduced need
13,700	increased leasable area
5,900	increased lease
<b>-12,600</b>	<b>difference in area</b>

Atrium:  
 Part of S. Mezz deleted:  
 Part of N. Mezz deleted:  
 "Shed" removed:

6,100  
 1,100  
 900  
 4,500  
 12,600

**Photometric Plan, Lighting Cut Sheets and Specifications**



## DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

Catalog #		Type	
Project			
Comments		Date	
Prepared by			

## SPECIFICATION FEATURES

### Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

### Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 3000K, 5000K and 6000K CCT.

### Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

### Mounting

**STANDARD ARM MOUNT:** Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the

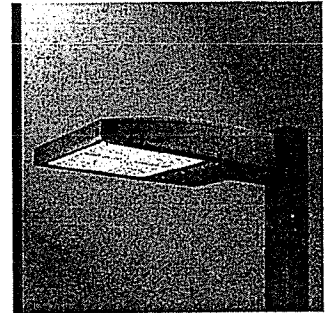
arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. **QUICK MOUNT ARM:** Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

### Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

### Warranty

Five-year warranty.

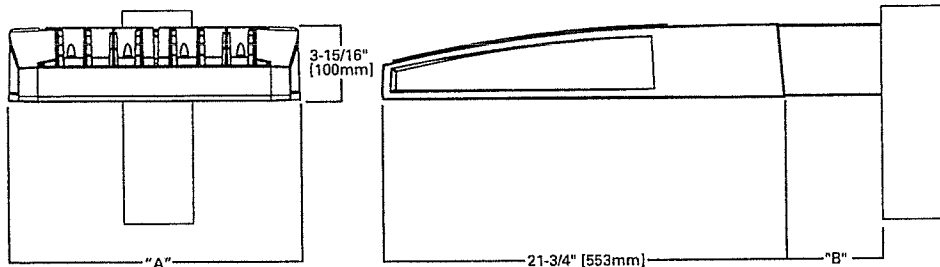


## GLEON GALLEON LED

1-10 Light Squares  
Solid State LED

AREA/SITE LUMINAIRE

## DIMENSIONS

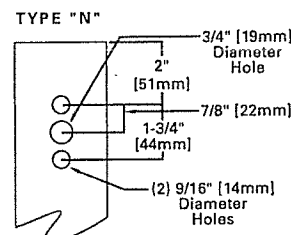


### DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length <sup>1</sup>	Weight with Arm (lbs.)	EPA with Arm <sup>2</sup> (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

### DRILLING PATTERN



### CERTIFICATION DATA

UL/cUL Wet Location Listed  
ISO 9001  
LM79 / LM80 Compliant  
3G Vibration Rated  
IP66 Rated  
DesignLights Consortium™ Qualified\*

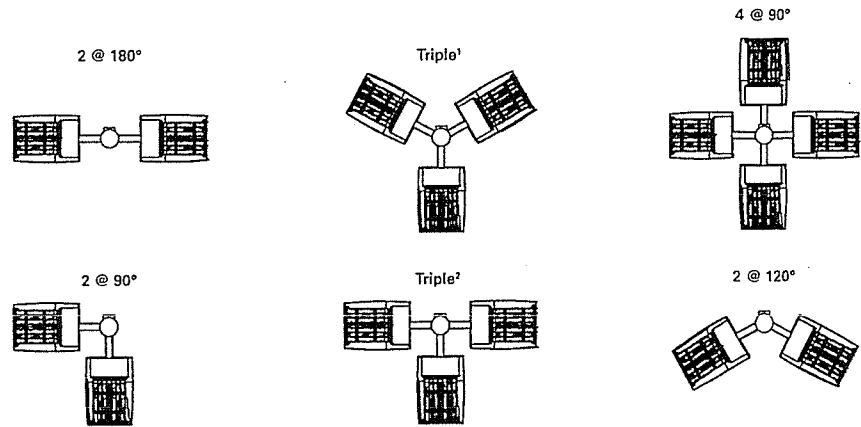
### ENERGY DATA

Electronic LED Driver  
>0.9 Power Factor  
<20% Total Harmonic Distortion  
120V-277V 50/60Hz  
347V & 480V 60Hz  
-40°C Min. Temperature  
40°C Max. Temperature  
50°C Max. Temperature (HA Option)



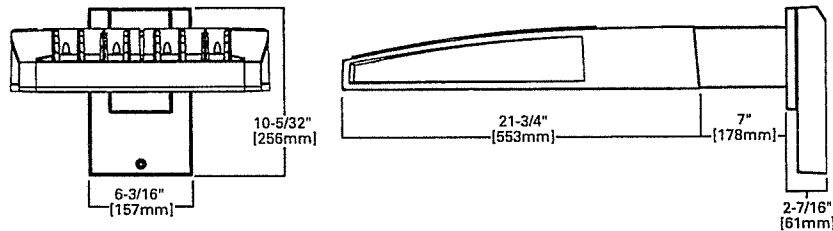
ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AF-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AF-10	16" Extended Arm (Required)	16" Extended Arm (Required)

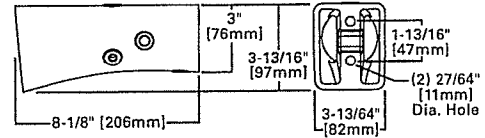


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

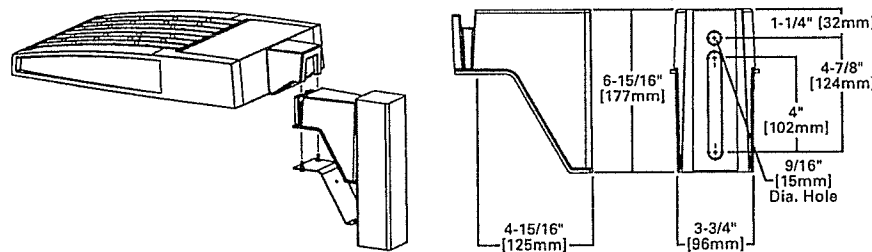
STANDARD WALL MOUNT



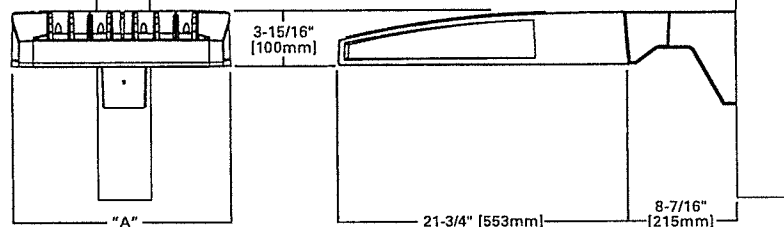
MAST ARM MOUNT



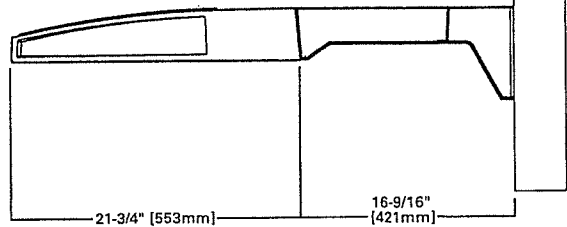
QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



QM Quick Mount Arm (Standard)



QMEA Quick Mount Arm (Extended)

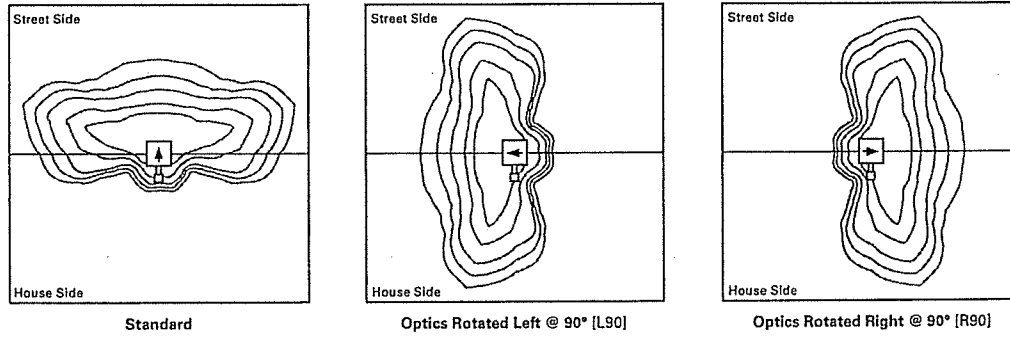


QUICK MOUNT ARM DATA

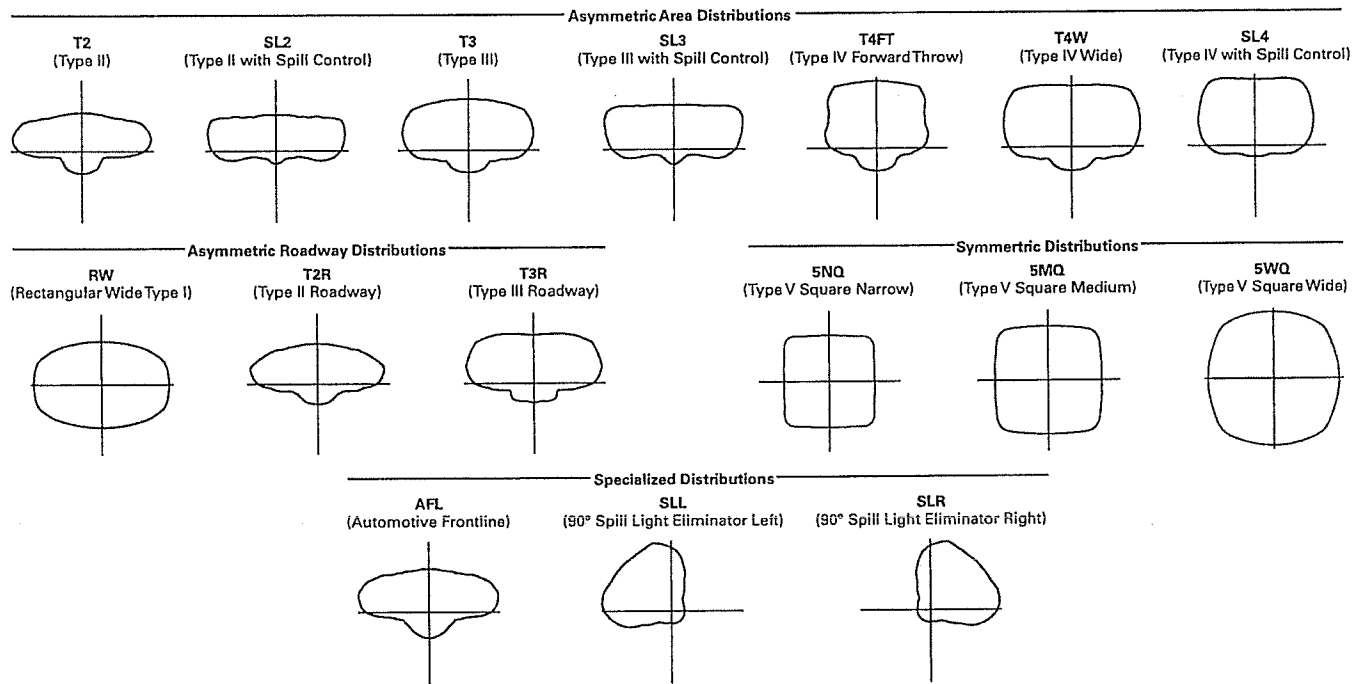
Number of Light Squares 1,2	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 3	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	59 (26.82 kgs.)	

NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

**OPTIC ORIENTATION**



**OPTICAL DISTRIBUTIONS**

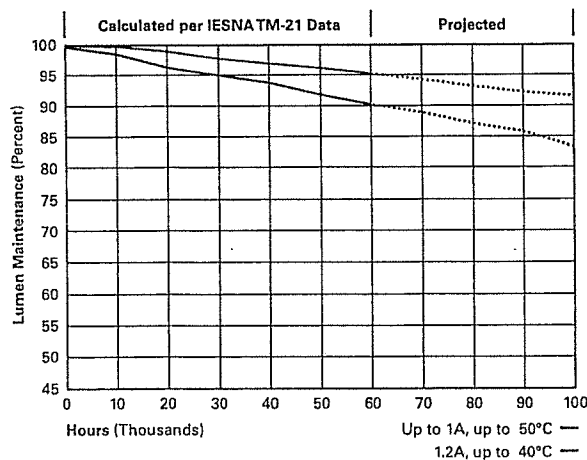


**LUMEN MAINTENANCE**

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000

**LUMEN MULTIPLIER**

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97





## NOMINAL POWER LUMENS (1.2A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		67	129	191	258	320	382	448	511	575	640
Input Current @ 120V (A)		0.58	1.16	1.78	2.31	2.94	3.56	4.09	4.71	5.34	5.87
Input Current @ 208V (A)		0.33	0.63	0.93	1.27	1.57	1.87	2.22	2.52	2.8	3.14
Input Current @ 240V (A)		0.29	0.55	0.80	1.10	1.35	1.61	1.93	2.18	2.41	2.71
Input Current @ 277V (A)		0.25	0.48	0.70	0.96	1.18	1.39	1.69	1.90	2.09	2.36
Input Current @ 347V (A)		0.20	0.39	0.57	0.78	0.96	1.15	1.36	1.54	1.72	1.92
Input Current @ 480V (A)		0.15	0.30	0.43	0.60	0.73	0.85	1.03	1.16	1.28	1.45
Optics											
T2	4000K/5000K Lumens	6,709	13,111	19,562	25,848	32,025	38,325	45,324	51,355	57,286	63,424
	3000K Lumens	5,939	11,606	17,316	22,881	28,349	33,925	40,121	45,459	50,710	56,143
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	7,122	13,919	20,769	27,442	34,000	40,687	48,117	54,519	60,816	67,333
	3000K Lumens	5,939	11,606	17,316	22,881	28,349	33,925	40,121	45,459	50,710	56,143
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3	4000K/5000K Lumens	6,838	13,363	19,939	26,346	32,642	39,062	46,196	52,343	58,388	64,646
	3000K Lumens	6,053	11,829	17,650	23,321	28,895	34,578	40,893	46,334	51,685	57,225
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	6,990	13,660	20,382	26,931	33,368	39,930	47,223	53,506	59,686	66,081
	3000K Lumens	6,188	12,092	18,042	23,839	29,537	35,346	41,802	47,364	52,834	58,495
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4FT	4000K/5000K Lumens	6,878	13,440	20,055	26,499	32,832	39,289	46,464	52,646	58,726	65,020
	3000K Lumens	6,088	11,897	17,753	23,457	29,063	34,779	41,130	46,602	51,984	57,556
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T4W	4000K/5000K Lumens	6,789	13,267	19,795	26,156	32,408	38,781	45,864	51,967	57,968	64,180
	3000K Lumens	6,010	11,744	17,523	23,153	28,688	34,329	40,599	46,001	51,313	56,812
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	4000K/5000K Lumens	6,697	13,088	19,529	25,804	31,970	38,259	45,245	51,267	57,186	63,315
	3000K Lumens	5,928	11,585	17,287	22,842	28,300	33,867	40,051	45,382	50,621	56,046
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	6,837	13,361	19,936	26,342	32,639	39,057	46,189	52,336	58,380	64,636
	3000K Lumens	6,052	11,827	17,647	23,318	28,892	34,573	40,887	46,328	51,678	57,216
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL4	4000K/5000K Lumens	6,496	12,695	18,943	25,029	31,011	37,110	43,886	49,727	55,470	61,414
	3000K Lumens	5,750	11,238	16,768	22,156	27,451	32,850	38,848	44,018	49,102	54,364
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	7,052	13,781	20,564	27,171	33,664	40,285	47,641	53,981	60,215	66,669
	3000K Lumens	6,242	12,199	18,203	24,052	29,799	35,660	42,172	47,784	53,302	59,015
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
5MQ	4000K/5000K Lumens	7,182	14,034	20,942	27,671	34,284	41,027	48,518	54,975	61,323	67,896
	3000K Lumens	6,358	12,423	18,538	24,494	30,348	36,317	42,948	48,664	54,283	60,102
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
5WQ	4000K/5000K Lumens	7,201	14,073	20,998	27,744	34,375	41,136	48,648	55,121	61,487	68,077
	3000K Lumens	6,374	12,457	18,587	24,559	30,429	36,414	43,063	48,793	54,428	60,262
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	6,009	11,741	17,519	23,148	28,681	34,321	40,589	45,990	51,301	56,798
	3000K Lumens	5,319	10,393	15,508	20,491	25,388	30,381	35,929	40,710	45,412	50,278
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
RW	4000K/5000K Lumens	6,989	13,657	20,378	26,925	33,360	39,921	47,211	53,494	59,672	66,066
	3000K Lumens	6,187	12,089	18,039	23,834	29,530	35,338	41,791	47,353	52,822	58,482
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
AFL	4000K/5000K Lumens	7,014	13,706	20,452	27,023	33,481	40,066	47,383	53,688	59,888	66,306
	3000K Lumens	6,209	12,133	18,104	23,921	29,637	35,466	41,943	47,525	53,013	58,694
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4

\* Nominal data for 70 CRI.

## NOMINAL POWER LUMENS (1A)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Nominal Power (Watts)	59	113	166	225	279	333	391	445	501	558	
Input Current @ 120V (A)	0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.6	5.07	
Input Current @ 208V (A)	0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75	
Input Current @ 240V (A)	0.26	0.48	0.71	0.96	1.19	1.41	1.67	1.89	2.12	2.39	
Input Current @ 277V (A)	0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09	
Input Current @ 347V (A)	0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68	
Input Current @ 480V (A)	0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28	
<b>Optics</b>											
T2	4000K/5000K Lumens	6,116	11,951	17,833	23,563	29,195	34,937	41,317	46,814	52,221	57,817
	3000K Lumens	5,414	10,579	15,786	20,858	25,843	30,926	36,574	41,440	46,226	51,180
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	6,493	12,688	18,932	25,015	30,994	37,090	43,863	49,699	55,439	61,380
	3000K Lumens	5,748	11,231	16,759	22,143	27,436	32,832	38,828	43,994	49,075	54,334
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3	4000K/5000K Lumens	6,234	12,181	18,176	24,017	29,756	35,609	42,111	47,715	53,225	58,930
	3000K Lumens	5,518	10,783	16,089	21,260	26,340	31,521	37,277	42,237	47,115	52,165
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	6,372	12,453	18,580	24,550	30,418	36,400	43,048	48,776	54,409	60,239
	3000K Lumens	5,640	11,023	16,447	21,732	26,926	32,221	38,106	43,177	48,163	53,324
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
T4FT	4000K/5000K Lumens	6,270	12,252	18,282	24,156	29,929	35,815	42,356	47,992	53,534	59,271
	3000K Lumens	5,550	10,845	16,183	21,383	26,493	31,703	37,494	42,483	47,388	52,467
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4W	4000K/5000K Lumens	6,189	12,094	18,045	23,844	29,543	35,352	41,809	47,372	52,843	58,506
	3000K Lumens	5,479	10,706	15,973	21,107	26,151	31,294	37,009	41,934	46,777	51,790
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	4000K/5000K Lumens	6,105	11,931	17,803	23,522	29,144	34,877	41,245	46,734	52,130	57,717
	3000K Lumens	5,404	10,561	15,759	20,822	25,798	30,873	36,510	41,369	46,145	51,091
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	6,233	12,180	18,174	24,013	29,753	35,604	42,106	47,708	53,218	58,921
	3000K Lumens	5,517	10,782	16,088	21,256	26,337	31,517	37,272	42,231	47,109	52,157
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL4	4000K/5000K Lumens	5,922	11,572	17,268	22,816	28,269	33,829	40,006	45,330	50,566	55,984
	3000K Lumens	5,242	10,244	15,286	20,197	25,024	29,945	35,413	40,126	44,761	49,557
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	6,429	12,563	18,746	24,768	30,688	36,723	43,429	49,208	54,891	60,775
	3000K Lumens	5,691	11,121	16,594	21,925	27,165	32,507	38,443	43,559	48,590	53,798
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
5MQ	4000K/5000K Lumens	6,547	12,794	19,090	25,224	31,253	37,400	44,228	50,114	55,902	61,893
	3000K Lumens	5,795	11,325	16,898	22,328	27,665	33,106	39,151	44,361	49,484	54,788
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
5WQ	4000K/5000K Lumens	6,564	12,828	19,141	25,291	31,336	37,499	44,347	50,248	56,051	62,058
	3000K Lumens	5,810	11,355	16,944	22,388	27,739	33,194	39,256	44,480	49,616	54,934
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	5,478	10,703	15,970	21,102	26,145	31,286	37,001	41,924	46,765	51,777
	3000K Lumens	4,849	9,474	14,137	18,679	23,144	27,694	32,753	37,111	41,396	45,833
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	6,371	12,449	18,576	24,544	30,411	36,392	43,037	48,764	54,396	60,225
	3000K Lumens	5,640	11,020	16,443	21,726	26,920	32,214	38,096	43,166	48,151	53,311
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
AFL	4000K/5000K Lumens	6,394	12,494	18,644	24,634	30,521	36,524	43,194	48,942	54,593	60,444
	3000K Lumens	5,660	11,060	16,504	21,806	27,017	32,331	38,235	43,323	48,326	53,505
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4

\* Nominal data for 70 CRI.

## NOMINAL POWER LUMENS (800MA)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Nominal Power (Watts)	44	85	124	171	210	249	295	334	374	419	
Input Current @ 120V (A)	0.39	0.77	1.13	1.54	1.90	2.26	2.67	3.03	3.39	3.80	
Input Current @ 208V (A)	0.22	0.44	0.62	0.88	1.06	1.24	1.50	1.68	1.87	2.12	
Input Current @ 240V (A)	0.19	0.38	0.54	0.76	0.92	1.08	1.30	1.46	1.62	1.84	
Input Current @ 277V (A)	0.17	0.36	0.47	0.72	0.83	0.95	1.19	1.31	1.42	1.67	
Input Current @ 347V (A)	0.15	0.24	0.38	0.49	0.63	0.77	0.87	1.01	1.15	1.52	
Input Current @ 480V (A)	0.11	0.18	0.29	0.37	0.48	0.59	0.66	0.77	0.88	0.96	
<b>Optics</b>											
T2	4000K/5000K Lumens	4,941	9,656	14,408	19,038	23,588	28,227	33,382	37,823	42,191	46,713
	3000K Lumens	4,374	8,547	12,754	16,852	20,880	24,987	29,550	33,481	37,347	41,350
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	5,246	10,251	15,296	20,211	25,041	29,966	35,439	40,154	44,791	49,592
	3000K Lumens	4,644	9,074	13,540	17,891	22,166	26,526	31,371	35,544	39,649	43,899
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3	4000K/5000K Lumens	5,037	9,842	14,685	19,404	24,041	28,770	34,024	38,551	43,003	47,612
	3000K Lumens	4,459	8,712	12,999	17,176	21,281	25,467	30,118	34,125	38,066	42,146
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	5,148	10,061	15,011	19,835	24,576	29,409	34,780	39,408	43,959	48,669
	3000K Lumens	4,557	8,906	13,288	17,558	21,755	26,033	30,787	34,884	38,913	43,082
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	4000K/5000K Lumens	5,066	9,899	14,770	19,516	24,181	28,936	34,221	38,774	43,252	47,888
	3000K Lumens	4,484	8,763	13,074	17,276	21,405	25,614	30,292	34,323	38,287	42,390
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	4000K/5000K Lumens	5,000	9,771	14,579	19,264	23,869	28,562	33,779	38,274	42,694	47,269
	3000K Lumens	4,426	8,649	12,905	17,052	21,129	25,283	29,901	33,880	37,793	41,843
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL2	4000K/5000K Lumens	4,933	9,639	14,383	19,005	23,547	28,178	33,324	37,758	42,118	46,632
	3000K Lumens	4,367	8,532	12,732	16,823	20,844	24,943	29,498	33,423	37,283	41,279
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	5,036	9,841	14,683	19,401	24,039	28,766	34,019	38,546	42,997	47,605
	3000K Lumens	4,458	8,711	12,997	17,174	21,279	25,464	30,114	34,121	38,061	42,140
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	4000K/5000K Lumens	4,784	9,350	13,951	18,434	22,840	27,332	32,323	36,624	40,854	45,232
	3000K Lumens	4,235	8,277	12,349	16,318	20,218	24,194	28,612	32,420	36,164	40,039
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	5,194	10,150	15,145	20,011	24,794	29,670	35,088	39,757	44,349	49,102
	3000K Lumens	4,598	8,985	13,406	17,714	21,948	26,264	31,060	35,193	39,258	43,465
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5MQ	4000K/5000K Lumens	5,290	10,337	15,424	20,380	25,250	30,217	35,734	40,489	45,165	50,006
	3000K Lumens	4,683	9,150	13,653	18,040	22,351	26,748	31,632	35,841	39,980	44,265
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
5WQ	4000K/5000K Lumens	5,304	10,365	15,465	20,434	25,318	30,297	35,830	40,597	45,286	50,139
	3000K Lumens	4,695	9,175	13,690	18,088	22,411	26,819	31,717	35,936	40,087	44,383
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	4,426	8,648	12,903	17,049	21,124	25,278	29,894	33,872	37,784	41,832
	3000K Lumens	3,918	7,655	11,422	15,092	18,699	22,376	26,462	29,983	33,446	37,030
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	5,147	10,058	15,009	19,830	24,570	29,402	34,771	39,399	43,949	48,658
	3000K Lumens	4,556	8,903	13,286	17,554	21,749	26,027	30,779	34,876	38,904	43,072
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
AFL	4000K/5000K Lumens	5,166	10,095	15,063	19,903	24,659	29,509	34,898	39,542	44,108	48,835
	3000K Lumens	4,573	8,936	13,334	17,618	21,828	26,121	30,892	35,003	39,044	43,229
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

\* Nominal data for 70 CRI.

## NOMINAL POWER LUMENS (600MA)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Nominal Power (Watts)	34	66	96	129	162	193	226	257	290	323	
Input Current @ 120V (A)	0.30	0.58	0.86	1.16	1.44	1.73	2.03	2.33	2.59	2.89	
Input Current @ 208V (A)	0.17	0.34	0.49	0.65	0.84	0.99	1.14	1.30	1.48	1.63	
Input Current @ 240V (A)	0.15	0.30	0.43	0.56	0.74	0.87	1.00	1.13	1.30	1.43	
Input Current @ 277V (A)	0.14	0.28	0.41	0.52	0.69	0.81	0.93	1.04	1.22	1.33	
Input Current @ 347V (A)	0.11	0.19	0.30	0.39	0.49	0.60	0.69	0.77	0.90	0.99	
Input Current @ 480V (A)	0.08	0.15	0.24	0.30	0.38	0.48	0.53	0.59	0.71	0.77	
Optics											
T2	4000K/5000K Lumens	4,029	7,874	11,749	15,525	19,235	23,019	27,222	30,844	34,406	38,093
	3000K Lumens	3,566	6,970	10,400	13,743	17,027	20,376	24,097	27,303	30,456	33,720
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	4000K/5000K Lumens	4,278	8,360	12,474	16,482	20,421	24,437	28,900	32,745	36,527	40,441
	3000K Lumens	3,787	7,400	11,042	14,590	18,077	21,632	25,582	28,986	32,334	35,798
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	4000K/5000K Lumens	4,107	8,026	11,976	15,824	19,605	23,461	27,746	31,438	35,068	38,827
	3000K Lumens	3,636	7,105	10,601	14,007	17,354	20,768	24,561	27,829	31,042	34,370
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T3R	4000K/5000K Lumens	4,198	8,205	12,242	16,175	20,041	23,982	28,363	32,137	35,848	39,689
	3000K Lumens	3,716	7,263	10,837	14,318	17,740	21,229	25,107	28,448	31,733	35,133
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	4000K/5000K Lumens	4,131	8,072	12,045	15,915	19,719	23,597	27,907	31,620	35,272	39,052
	3000K Lumens	3,657	7,145	10,662	14,088	17,455	20,888	24,703	27,990	31,223	34,569
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	4000K/5000K Lumens	4,077	7,968	11,889	15,710	19,465	23,292	27,546	31,212	34,816	38,547
	3000K Lumens	3,609	7,053	10,524	13,906	17,230	20,618	24,384	27,629	30,819	34,122
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	4000K/5000K Lumens	4,022	7,861	11,729	15,498	19,202	22,979	27,175	30,791	34,347	38,028
	3000K Lumens	3,560	6,959	10,383	13,719	16,998	20,341	24,055	27,256	30,404	33,662
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL3	4000K/5000K Lumens	4,106	8,025	11,974	15,821	19,603	23,458	27,742	31,433	35,064	38,821
	3000K Lumens	3,635	7,104	10,599	14,005	17,353	20,765	24,557	27,824	31,039	34,364
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	4000K/5000K Lumens	3,902	7,624	11,377	15,033	18,626	22,289	26,359	29,867	33,316	36,886
	3000K Lumens	3,454	6,749	10,071	13,307	16,488	19,730	23,333	26,438	29,491	32,651
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	4,236	8,277	12,351	16,319	20,219	24,196	28,614	32,422	36,166	40,042
	3000K Lumens	3,750	7,327	10,933	14,446	17,898	21,418	25,329	28,700	32,014	35,445
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	4000K/5000K Lumens	4,314	8,429	12,578	16,619	20,591	24,641	29,141	33,019	36,832	40,779
	3000K Lumens	3,819	7,461	11,134	14,711	18,227	21,812	25,796	29,228	32,604	36,098
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
5WQ	4000K/5000K Lumens	4,325	8,452	12,611	16,664	20,646	24,707	29,219	33,106	36,930	40,888
	3000K Lumens	3,828	7,482	11,163	14,751	18,276	21,871	25,865	29,305	32,690	36,194
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	4000K/5000K Lumens	3,609	7,052	10,522	13,903	17,226	20,613	24,378	27,622	30,812	34,114
	3000K Lumens	3,195	6,242	9,314	12,307	15,248	18,247	21,579	24,451	27,275	30,198
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	4,197	8,202	12,239	16,171	20,036	23,977	28,355	32,129	35,839	39,680
	3000K Lumens	3,715	7,260	10,834	14,315	17,736	21,224	25,101	28,441	31,725	35,125
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	4000K/5000K Lumens	4,213	8,232	12,284	16,230	20,109	24,064	28,459	32,246	35,969	39,824
	3000K Lumens	3,729	7,287	10,874	14,367	17,800	21,301	25,192	28,544	31,840	35,252
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

\* Nominal data for 70 CRI.

**CONTROL OPTIONS**

**0-10V (DIM)**

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

**Photocontrol (P, R and PER7)**

Optional button-type photocontrol (P) and photocontrol receptacles (R and PER7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

**After Hours Dim (AHD)**

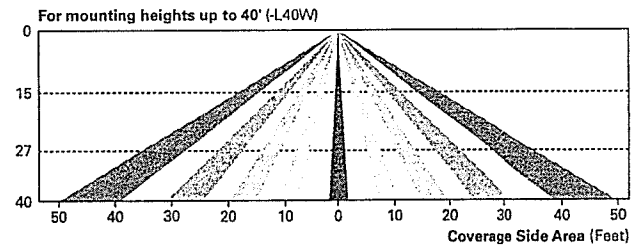
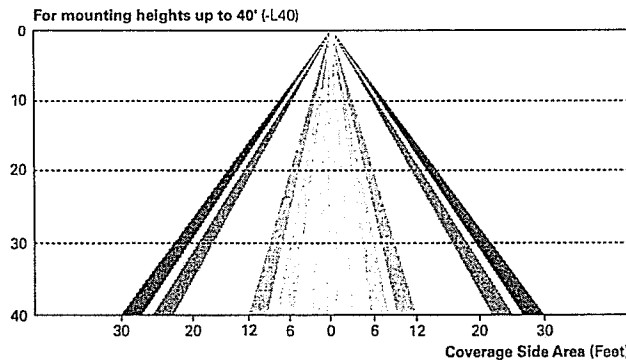
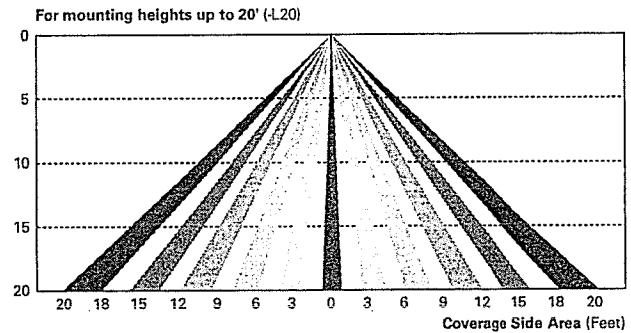
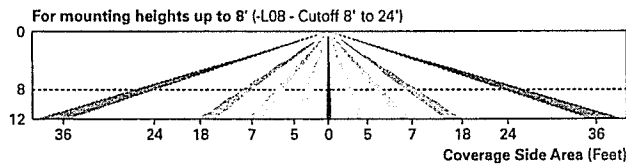
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

**Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)**

These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

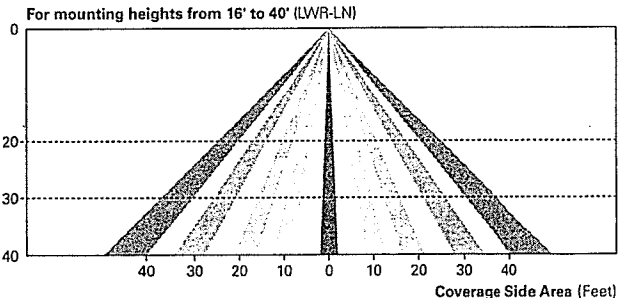
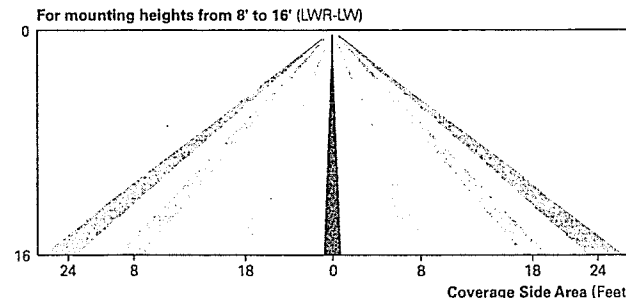
A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.



**LumaWatt Wireless Control and Monitoring System (LWR-LW and LWR-LN)**

The LumaWatt system is a peer-to-peer wireless network of luminaire-integral sensors for any sized project. Each sensor is capable of motion and photo sensing, metering power consumption and wireless communication. The end-user can securely create and manage sensor profiles with browser-based management software. The software will automatically broadcast to the sensors via wireless gateways for zone-based and individual luminaire control. The LumaWatt software provides smart building solutions by utilizing the sensor to provide easy-to-use dashboard and analytic capabilities such as improved energy savings, traffic flow analysis, building management software integration and more.

For additional details, refer to the LumaWatt product guides.



## ORDERING INFORMATION

Sample Number: GLEON-AF-04-LED-E1-T3-GM-QM

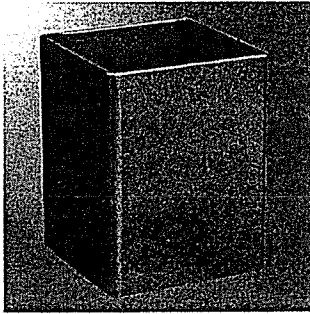
Product Family <sup>1,2</sup>	Light Engine	Number of Light Squares <sup>3</sup>	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AF=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 <sup>4</sup> 08=8 <sup>4</sup> 09=9 <sup>5</sup> 10=10 <sup>5</sup>	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V <sup>6</sup> 480=480V <sup>6,7</sup>	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm <sup>8</sup> MA=Mast Arm Adapter <sup>8</sup> WM=Wall Mount QM=Quick Mount Arm (Standard Length) <sup>10</sup> QMEA=Quick Mount Arm (Extended Length) <sup>11</sup>

Options (Add as Suffix)	Accessories (Order Separately)
7030=70 CRI 3000K <sup>12</sup> 8030=80 CRI 3000K <sup>13</sup> 7050=70 CRI 5000K <sup>12</sup> 7060=70 CRI 6000K <sup>12</sup> 600=Drive Current Factory Set to Nominal 600mA <sup>14</sup> 800=Drive Current Factory Set to Nominal 800mA <sup>14</sup> 1200=Drive Current Factory Set to Nominal 1200mA <sup>14,15</sup> F=Single Fuse (120, 277 or 347V. Must Specify Voltage) FF=Double Fuse (208, 240 or 480V. Must Specify Voltage) 2L=Two Circuits <sup>16,17</sup> DIM=External 0-10V Dimming Leads P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle R=NEMA Twistlock Photocontrol Receptacle AHD145=After Hours Dim, 5 Hours <sup>18</sup> AHD245=After Hours Dim, 6 Hours <sup>18</sup> AHD255=After Hours Dim, 7 Hours <sup>18</sup> AHD355=After Hours Dim, 8 Hours <sup>18</sup> HA=50°C High Ambient <sup>19</sup> MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height <sup>20,21</sup> MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height <sup>20,22</sup> MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height <sup>20,23</sup> MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) <sup>20,24</sup> MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height <sup>20,21,25</sup> MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height <sup>20,22,25</sup> MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height <sup>20,23,25</sup> MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) <sup>20,24,25</sup> MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height <sup>20,21</sup> MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height <sup>20,22</sup> MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height <sup>20,23</sup> MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) <sup>20,24</sup> LWR-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height <sup>26</sup> LWR-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height <sup>26</sup> L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing <sup>27</sup> HSS=Factory Installed House Side Shield <sup>28</sup> CE=CE Marking <sup>29</sup>	OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor <sup>20</sup> GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares GLEON-QM=Quick Mount Arm Kit GLEON-QMEA=Quick Mount Extended Arm Kit LS/HSS=Field Installed House Side Shield <sup>28,29</sup>

## NOTES:

- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- DesignLights Consortium™ Qualified. Refer to [www.designlights.org](http://www.designlights.org) Qualified Products List under Family Models for details.
- Standard 4000K CCT and minimum 70 CRI.
- Not compatible with extended quick mount arm (QMEA).
- Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).
- Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A.
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
- May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
- Factory installed.
- Maximum 8 light squares.
- Maximum 6 light squares.
- Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
- Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
- 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. These files are published on the Galleon luminaire product page on the website.
- Not available with HA option.
- 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
- Not available with LumaWatt wireless sensors.
- Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
- 50°C lumen maintenance rate applies to 600mA, 800mA and 1A drive currents.
- The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
- Approximately 22' detection diameter at 8' mounting height.
- Approximately 40' detection diameter at 20' mounting height.
- Approximately 60' detection diameter at 40' mounting height.
- Approximately 100' detection diameter at 40' mounting height.
- Replace X with number of Light Squares operating in low output mode.
- LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See [www.eaton.com/lighting](http://www.eaton.com/lighting) for LumaWatt application information.
- Not available with house side shield (HSS).
- Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
- CE is not available with the LWR, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only.
- One required for each Light Square.

# Steel Poles



## SSS SQUARE STRAIGHT STEEL

Catalog #		Type
Project		
Comments		Date
Prepared by		

### FEATURES

- ASTM Grade steel base plate with ASTM A366 base cover
- Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole
- 10'-39' mounting heights
- Drilled or tenon (specify)

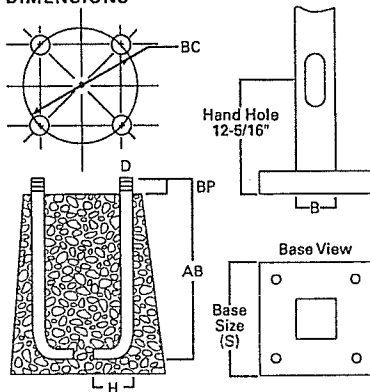
### ORDERING INFORMATION

SAMPLE NUMBER: SSS5A20SFM1XG

Product Family	Shaft Size (Inches) <sup>1</sup>	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting type	Number and Location of Arms	Arm Lengths (Feet)	Options (Add as Suffix)
SSS=Square Straight Steel	4=4" 5=5" 6=6"	A=0.120" M=0.188" X=0.250"	10=10' 15=15' 20=20' 25=25' 30=30' 35=35' 39=39'	S=Square Steel Base	F=Dark Bronze G=Galvanized Steel J=Summit White K=Carbon Bronze L=Dark Platinum P=Primer Powder Coat R=Hartford Green S=Silver T=Graphite Metallic V=Grey W=White X=Custom Color Y=Black	2=2-3/8" O.D. Tenon (4" Long) 3=3-1/2" O.D. Tenon (5" Long) 4=4" O.D. Tenon (6" Long) 5=3" O.D. Tenon (4" Long) 6=2-3/8" O.D. Tenon (6" Long) 7=4" O.D. Tenon (10" Long) A=Type A Drilling C=Type C Drilling E=Type E Drilling F=Type F Drilling G=Type G Drilling J=Type J Drilling K=Type K Drilling M=Type M Drilling R=Type R Drilling Z=Type Z Drilling	1=Single 2=2 at 180° 3=Triple <sup>2</sup> 4=4 at 90° 5=2 at 90° X=None	X=None	A=1/2" Tapped Hub (Specify location desired) B=3/4" Tapped Hub (Specify location desired) C=Convenience Outlet <sup>3</sup> E=GFCI Convenience Outlet <sup>3</sup> G=Ground Lug H=Additional Hand Hole <sup>4</sup> L=Drilled for Bumper Glitter V=Vibration Damper

NOTES: 1. All shaft sizes nominal. 2. Square poles are 3 at 90°, round poles are 3 at 120°. 3. Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. 4. Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

### DIMENSIONS



**WARNING:** Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to pole white paper WP513001EN for additional support information. Before installing, make sure proper anchor bolts and templates are obtained. The use of unauthorized accessories such as banners, signs, cameras or pennants for which the pole was not designed voids the pole warranty and may result in pole failure causing serious injury or property damage. Information regarding total loading capacity can be supplied upon request. The pole warranty is void unless poles are used and installed as a complete pole and luminaire combination. This warranty specifically excludes failure as the result of a third party act or omission, misuse, unanticipated uses, fatigue failure or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Eaton or visit [www.eaton.com/lighting](http://www.eaton.com/lighting) for available options, accessories and ordering information.

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number <sup>1,2</sup>	Wall Thickness (Inches)	Base Square (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection (Inches)	Shaft Size (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) <sup>4</sup>				Max Fixture Load Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	
MH			S	BC	BP	B	D x AB x H						
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	30.0	22.0	17.0	13.0	100
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	15.0	11.5	8.7	6.5	100
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	8.7	5.9	3.9	2.5	150
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	15.4	11.1	7.9	5.5	150
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.7	1.7	0.3	--	200
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	9.3	6.0	3.5	1.6	200
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.9	6.1	3.5	1.2	200
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	4.7	2.1	--	--	200
30	SSS6M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	10.4	6.4	3.5	1.5	200
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.3	1.4	--	--	200
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	19.0	13.0	8.7	5.6	200
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.8	2.8	--	--	200
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	12.8	7.2	3.7	1.0	200
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.5	11.0	6.8	3.5	200
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.3	3.0	--	--	300
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	13.0	7.0	3.7	0.8	300

Effective Projected Area (Two Feet Above Pole Top)

Mounting Height (Feet)	Catalog Number <sup>1,2</sup>	Wall Thickness (Inches)	Base Square (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection (Inches)	Shaft Size (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) <sup>4</sup>				Max Fixture Load Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	
MH			S	BC	BP	B	D x AB x H						
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	23.0	17.5	14.0	11.0	100
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	13.4	10.0	7.5	5.7	100
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	7.6	5.2	3.4	2.1	150
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	13.8	9.9	7.1	4.9	150
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.4	1.6	0.3	--	200
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	8.5	5.5	3.2	1.5	200
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.1	5.6	3.0	1.2	200
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	1.8	--	--	--	200
30	SSS6M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	9.6	5.9	1.9	0.2	200
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.1	1.3	--	--	200
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	18.5	12.5	8.4	5.3	200
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.5	2.4	--	--	200
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	11.8	7.0	3.5	1.0	200
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.0	10.5	6.4	3.4	200
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.0	2.4	--	--	300
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	12.0	6.7	3.0	0.5	300

- NOTES:  
 1. Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained.  
 2. Tenon size or machining for rectangular arms must be specified. Hand hole position relative to drill location.  
 3. Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.  
 4. EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.



**Denial Letter with Floor Plan Use Allocation Schematic**

OFFICE OF THE BUILDING COMMISSIONER/ZONING CODE ENFORCEMENT OFFICER

ZONING DENIAL

City APR#: 78

Name: GANTON LLC / LISA MEAD

Address: 372-376, 341 MERRIMACK ST Zoning District: I-2

Request: Remodel Interior Space to accommodate new Professional offices Requiring Special Permit for Use.

ZONING BOARD

Dimensional Variance

- Dimensional Controls (VI)
  - Lot Area
  - Lot Coverage
  - Lot Frontage
  - Open Space
  - Front Yard
  - Height
  - Side Yard
  - Lot Width
  - Rear Yard
- PIOD (XXI)
  - FAR
  - 2 1/2 stories
- Parking (VII)

Use Variance

- Not permitted use (V)
- Sign Location/Replacement (VIII)

Special Permit

- Special Permit for Use (V.D)
- Spacing (VI.D)
- In-Law Apartment (XIIA)
- Bonus Provisions for Multifamily Developments (XVI)
- Personal Wireless Communication Services (XX)
- Demolition Control Overlay District (XXVIII)
- Wind Energy Conversion Facilities (XXVI)

Special Permit for Non-Conformities

- Extension or Alteration (IX.B.2)
  - Parking
  - Rear Yard
  - Upward Extension
  - Lot Coverage
  - Open Space
  - Side Yard
  - Height
  - Lot Frontage
  - Lot Area
  - Front Yard
- Over 500 s.f. increase (IX.B.3.c)
- Plum Island Overlay District (XXI-G-3)
  - FAR
  - Footprint Expansion
  - Height Increase

PLANNING BOARD

Special Permit

- One residential structure per lot (VI.C)
- Courts and Lanes (XXIII)
- Floodplain (XIII)
- Waterfront West Overlay District (XXIV)
- Open Space Residential Development (XIV)
- Towle Complex Redev. Overlay District (XXV)
- Water Resource Protection District (XIX)
- Downtown Overlay District (XXVII)
- Federal Street Overlay District (XXII)

Site Plan Review (XV)

- Major
- Minor

CITY COUNCIL

- GACM (X.H.9)
- Other: \_\_\_\_\_

CONSERVATION COMMISSION

HISTORICAL COMMISSION - Demolition Delay

Use Special Permit in I-2 District.

11/9/17  
Date

[Signature]  
Building Commissioner/Zoning Code Enf. Officer



Mead, Talerman & Costa, LLC  
Attorneys at Law

30 Green Street  
Newburyport, MA 01950  
Phone 978.463.7700  
Fax 978.463.7747

www.mtclawyers.com

RECEIVED  
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CITY OF NEWBURYPORT  
BUILDING DEPARTMENT

November 6, 2017

By Hand

Peter Binnette  
Building Commissioner  
City of Newburyport  
City Hall  
60 Pleasant Street  
Newburyport, Massachusetts 01950

Re: Request for Permit Denial;  
372-376 and 341 Merrimac Street and 10 Ashland Court, Newburyport, MA (the  
"Property");  
Assessor's Map: 68 Lots 27, 29, 154 and 155

Dear Peter;

Reference is made to the above-captioned matter. In that connection, this firm represents Ganton LLC (the "Petitioner"), relative to the interior remodeling at the Property for the purpose of adding a new use, namely Professional Offices (use 416) on the Property<sup>1</sup>. There will be no exterior changes to the structures on the Property and there will be sufficient parking at the Property (335 provided 286 required) so no new parking spaces will be constructed. The Property is in the I-2 Zoning District of the Newburyport Zoning Ordinances (the "NZO"). Currently the structure on the property is non-conforming for side and front setbacks and lot coverage. I have attached the floor plans by use for your information.

The proposed use requires a Special Permit from the Planning Board pursuant to the recent zoning amendment to the table of uses in section V-D. No new parking spaces will be added and no additional square footage will be added to the building therefore the proposal does not trigger section X-V(C) of the NZO given the foregoing and no Site Plan Review will be required.

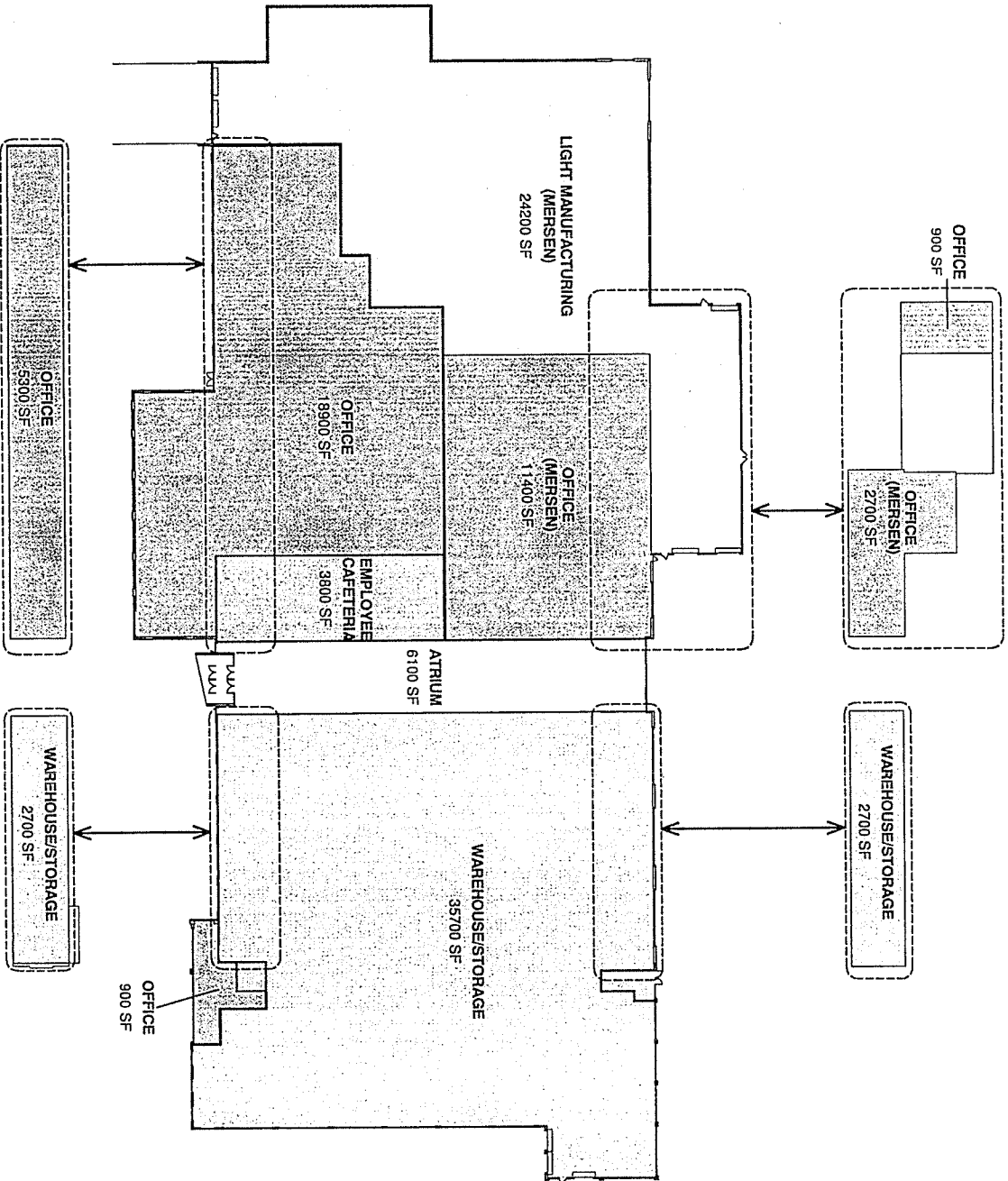
To proceed with the Project, Petitioners will require a special permit for use under section V-D and X-H(7) of the NZO.

Kindly confirm the above at your earliest convenience. Should you have any questions or concerns, please contact me at (978) 463-7700.

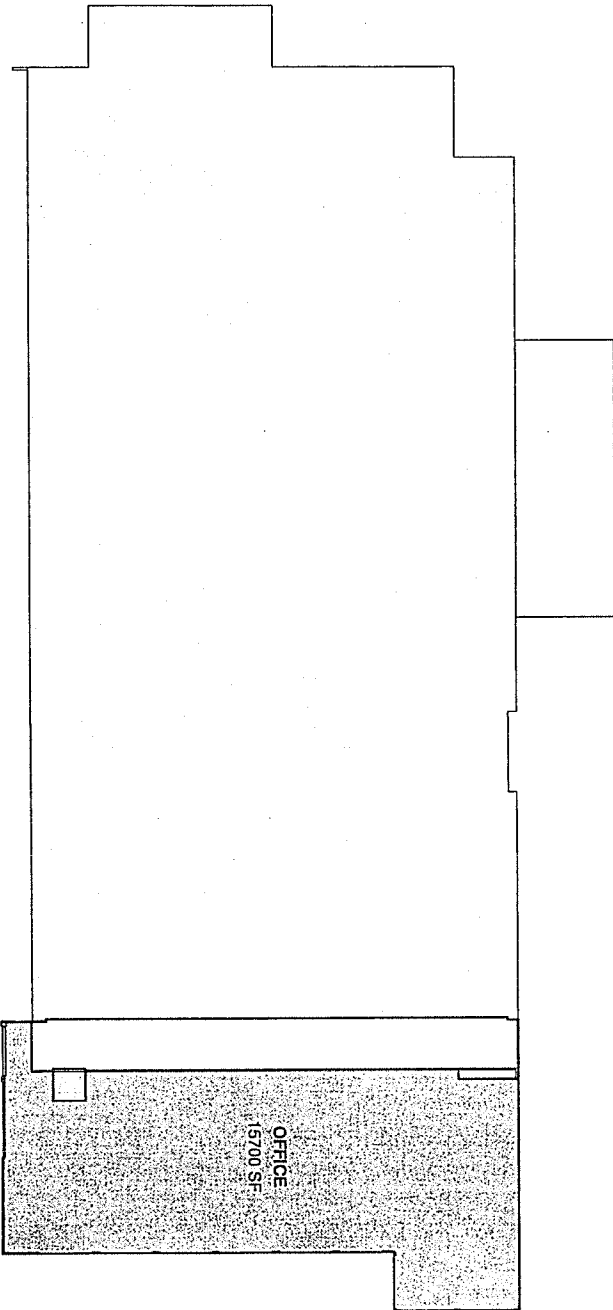
Sincerely,  
  
Lisa L. Mead

cc: Client

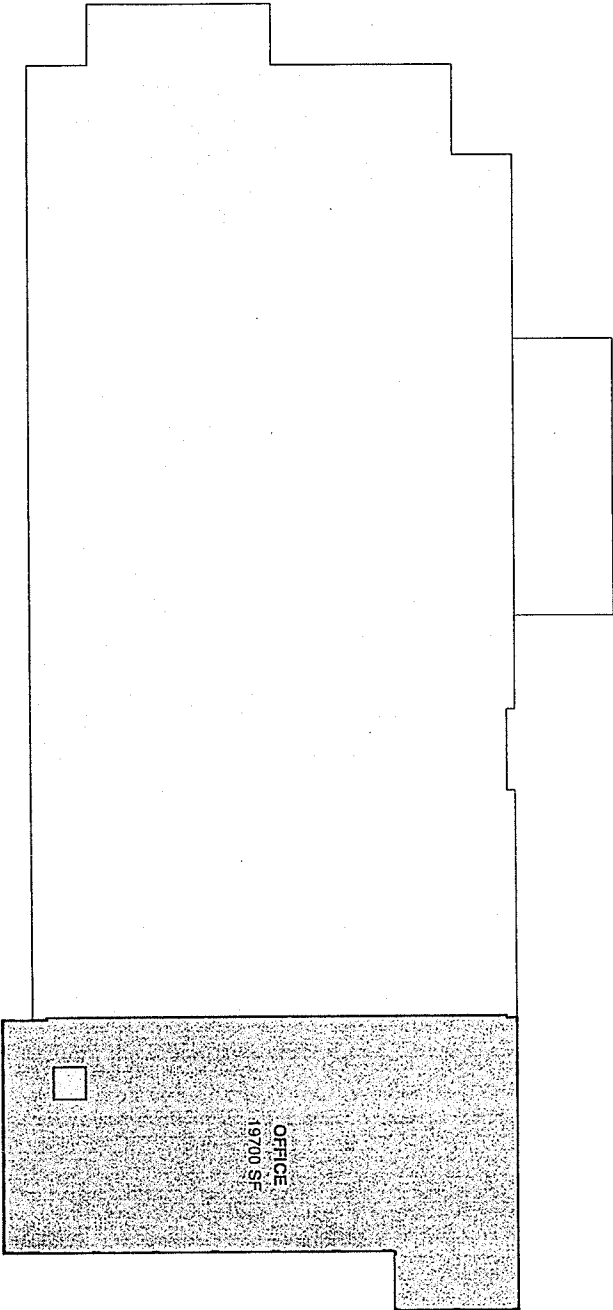
<sup>1</sup> Currently the property includes light manufacturing and research and development uses with ancillary storage and related office.



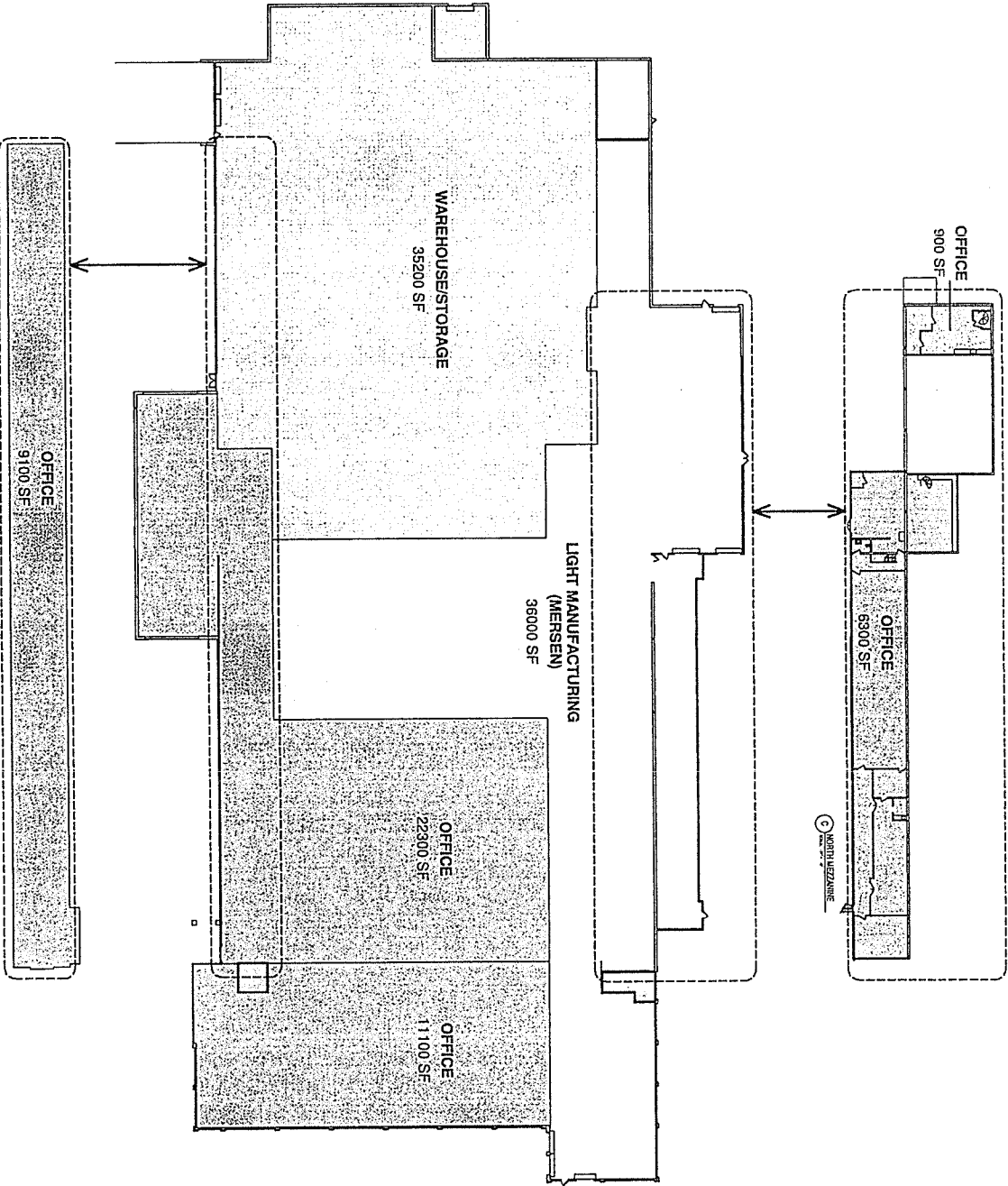
Level 1 Proposed  
 374 MERRIMAC ST, NEWBURYPORT, MA  
 10.13.2017 1" = 50'-0"



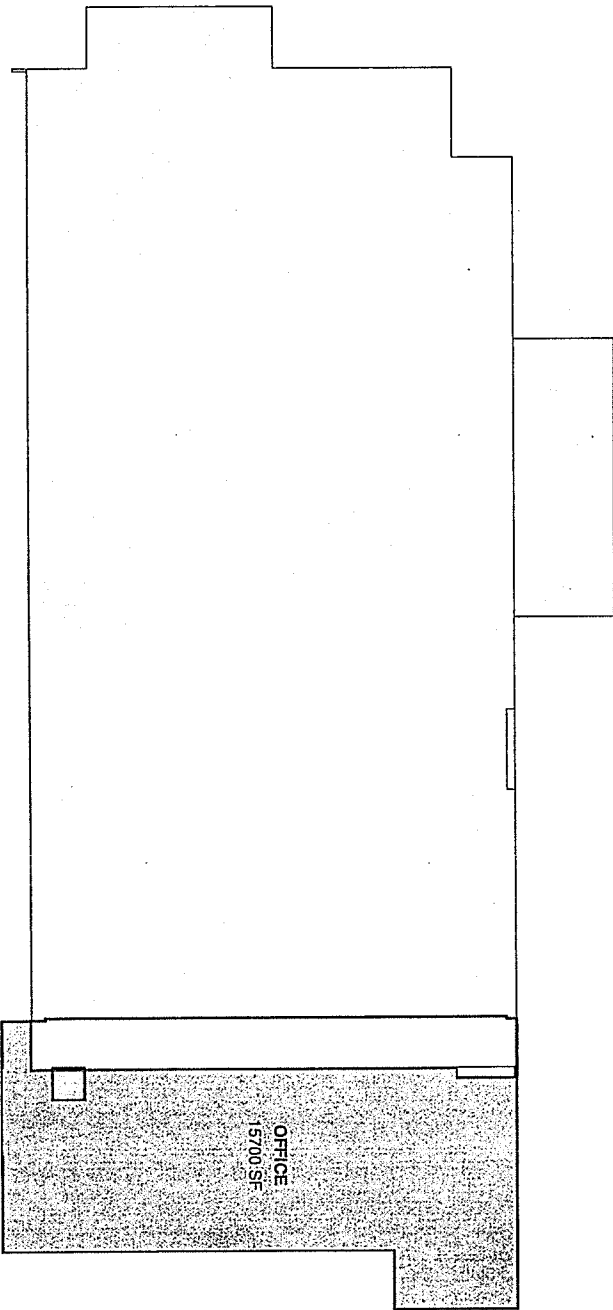
**Level 2 Proposed**  
374 MERRIMAC ST, NEWBURYPORT, MA  
10.13.2017 1" = 50'-0"



**Level 3 Proposed**  
374 MERRIMAC ST, NEWBURYPORT, MA  
10.13.2017 1" = 50'-0"

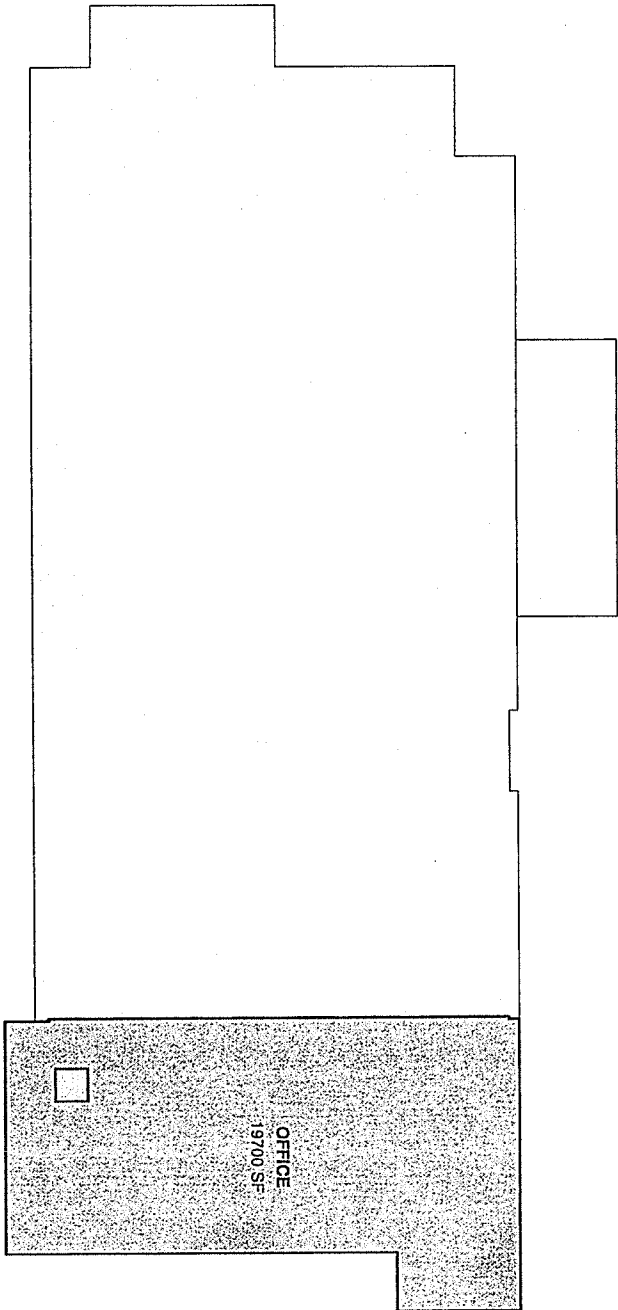


**Level 1 Existing**  
 374 MERRIMAC ST., NEWBURYPORT, MA  
 10.13.2017 1" = 50'-0"



**Level 2 Existing**  
374 MERRIMAC ST, NEWBURYPORT, MA  
10.13.2017 1" = 50'-0"





**Level 3 Existing**

374 MERRIMAC ST., NEWBURYPORT, MA  
10.13.2017 1" = 50'-0"

<b>CURRENT OWNER</b> GANTON LLC 210 COMMERCE WAY SUITE 100 PORTSMOUTH, NH 03801 Additional Owners:		<b>TOPO.</b> 1 Level	<b>UTILITIES</b>	<b>STRT./ROAD</b> 1 Paved	<b>LOCATION</b> 5 Industrial	<b>DESCRIPTION</b> COM LAND COMMERC.	<b>Code</b> 3370 3370	<b>Appraised Value</b> 1,287,500 80,500	<b>Assessed Value</b> 1,287,500 80,500
<b>SUPPLEMENTAL DATA</b> Other ID: 68-29 SUB-DIV: CONDO CV; PHOTO: INLAW Y/N; WARD: LOT SPLIT; TILE #: 40B HSNB; 6 ATT 1/2 HSE: GIS ID: M_249892_952759 ASSOC PID#						<b>VISION</b>			

RECORD OF OWNERSHIP			BK-VOL/PAGE			SALE DATE q/u			v/i			SALE PRICE V.C.		
Year	Type	Description	Amount	Code	Description	Number	Amount	Comm. Int.	Yr.	Code	Assessed Value	Yr.	Code	Assessed Value
		GANTON LLC	22957/0100	U	06/07/2004	1G	6,100,000	1G	2017	3370	1,287,500	2016	3370	1,226,400
		FERRAZ SHAWMUT INC	15940/0526	U	09/17/1999	1G	5,600,000	1G	2017	3370	80,500	2015	3370	80,500
		GOULD ELECTRONICS, INC.	12409/0433	U	01/31/1994	1B	0	0	2017	3370				
		CHASE-SHAWMUT CO	2454/365	V			0	0						
<b>Total:</b>									<b>Total:</b>			<b>1,368,000</b>		

**EXEMPTIONS**  
 Description: Amount: Code: Description: Number: Amount: Comm. Int.

**OTHER ASSESSMENTS**  
 Description: Amount: Code: Description: Number: Amount: Comm. Int.

**ASSESSING NEIGHBORHOOD**  
 Street Index Name: Tracing: Batch:

**NOTES**  
 PARKING LOT  
 COMBINED W/ LOTS 154 &  
 155 FOR FY2000

BUILDING PERMIT RECORD						VISIT/CHANGE HISTORY								
Permit ID	Issue Date	Type	Description	Amount	Insp. Date	% Comp.	Date Comp.	Comments	Date	Type	IS	ID	Cd.	Purpose/Result
							02/20/2007		02/20/2007			MJ	00	Measur+Listed
							05/05/1996		05/05/1996			MH	00	Measur+Listed
							03/02/1981		03/02/1981			45	10	Measur/LtrSnt Letter Se

LAND LINE VALUATION SECTION																					
B	Use Code	Use Description	Zone	D	Front	Depth	Units	Unit Price	I. Factor	S.A. Disc	Acre C. ST.										
1	3370	PARK LOT	I2				43,560	SF	6.30	1.0000	C	1.0000	1.00	C1	1.20	Adj.	Notes-Adj	Special Pricing	S Adj	Land Value	
1	3370	PARK LOT	I2				2.91	AC	274,400.00	1.0000	C	1.0000	1.00	C1	1.20			Spec Use	Spec Calc	1.00	329,300
											<b>Total Card Land Units:</b>		<b>3.91 AC</b>		<b>Parcel Total Land Area: 3.91 AC</b>		<b>Total Land Value:</b>		<b>1,287,500</b>		

CONSTRUCTION DETAIL		CONSTRUCTION DETAIL (CONTINUED)									
Element	Description	Element	Description								
00	Vacant										
		<b>MIXED USE</b>									
Code	Description	Code	Percentage								
3370	PARK LOT		100								
		<b>COST/MARKET VALUATION</b>									
Adj. Base Rate:		0.00									
Replace Cost		0									
AYB		0									
EYB		0									
Remodel Rating		1									
Year Remodeled											
Dep %											
Functional Obsinc											
External Obsinc											
Cost Trend Factor											
Condition											
% Complete											
Overall % Cond											
Apprais Val											
Dep % Ovr		0									
Dep Ovr Comment		0									
Misc Imp Ovr		0									
Misc Imp Ovr Comment		0									
Cost to Cure Ovr		0									
Cost to Cure Ovr Comment											
<b>OB-OUTBUILDING &amp; YARD ITEMS(L) / XF-BUILDING EXTRA FEATURES(B)</b>											
Code	Description	Sub	Units	Unit Price	Yr	Gde	Dp Rt	Chd	%Cnd	Apr Valite	
PAY1	PAVING-ASPH	L	70,000	2.30	1998		0		50	80,500	
<b>BUILDING SUB-AREA SUMMARY SECTION</b>											
Code	Description	Living Area	Gross Area	Eff. Area	Unit Cost	Undeprac. Valite					
		Ttl. Gross Liv/Lease Area:		0	0	0					

No Photo On Record

Code	Appraised Value	Assessed Value
4010	3,893,000	3,893,000
4010	1,676,700	1,676,700
4010	8,100	8,100
<b>Total</b>	<b>5,577,800</b>	<b>5,577,800</b>

**PREVIOUS ASSESSMENTS (HISTORY)**

Yr.	Code	Assessed Value	Yr.	Code	Assessed Value
2017	4010	3,893,000	2015	4010	3,829,900
2017	4010	1,676,700	2015	4010	1,597,100
2017	4010	8,100	2015	4010	8,100
<b>Total</b>		<b>5,577,800</b>	<b>Total</b>		<b>5,435,100</b>

This signature acknowledges a visit by a Data Collector or Assessor

**APPRaised VALUE SUMMARY**

Appraised Bldg. Value (Card) 3,603,600  
 Appraised XF (B) Value (Bldg) 289,400  
 Appraised OB (L) Value (Bldg) 8,100  
 Appraised Land Value (Bldg) 1,676,700  
 Special Land Value 0  
 Total Appraised Parcel Value 5,577,800  
 Valuation Method: C  
 Adjustment: 0

Net Total Appraised Parcel Value 5,577,800

**VISIT/ CHANGE HISTORY**

Permit ID	Issue Date	Type	Description	Insp. Date	% Comp.	Date Comp.	Comments
A/R 14-119	04/09/2014	IN	Industrial	07/01/2014	100	07/01/2014	RENOVATE INTERIOR 08/04/2014
493-10/05	10/14/2005	CM	Commercial		0		CONVERT 3RD FLOOR 08/25/2006
AR5-1/05	01/13/2005	CM	Commercial		0		REPAIR LOADING DOOR 07/01/2005
ARR 375	12/17/1997	CM	Commercial		100	05/05/1998	REMOD/BAT
AR95-5/96	05/02/1996	CM	Commercial	10/01/1996	100	10/01/1996	ALTERATIO
AR40-12/91	12/09/1991	CM	Commercial		0		TWO 500 G

**LAND LINE VALUATION SECTION**

B #	Use Code	Use Description	Zone	D	Front Depth	Units	Unit Price	I. Factor	S.A.	Acre Disc	C. Factor	ST. Adj.	Notes-Adj	Special Pricing	S. Adj. Fract	Adj. Unit Price	Land Value
1	4010	IND WHSES	12		2.00	43,560 SF	6.30	1.0000	C	1.0000	1.00	C21		548,800.00	1.00	12.60	548,900
1010	12	4010			1.10	AC 0.00	1.0000	C	C	1.000		C21		50,200		1,097,600	Acrc Disc
WE	12					274,400.00				N							
<b>Total Card Land Units:</b>													4.10 AC	Parcel Total Land Area:	4.1 AC	<b>Total Land Value:</b>	1,676,700

**RECORD OF OWNERSHIP**

BK-VOL/PAGE	SALE DATE	q/tu	v/i	SALE PRICE	V.C.
22957/0100	06/07/2004	U	I	6,100,000	1G
15940/0526	09/17/1999	U	I	5,600,000	1G
12409/0433	01/31/1994	U	I	3,720,000	1B
2454/ 365				0	
				0	

Other ID: 68-27  
 SUB-DIV INLAW Y/N:  
 PHOTO LOT SPLIT:  
 WARD 40B HSNB:  
 TITLE #: 6  
 ATT 1/2 HSE:  
 GIS ID: M. 249966. 952804

**EXEMPTIONS**

Year	Type	Description	Amount	Code	Description	Number	Amount	Comm. Int.
<b>Total:</b>								

**OTHER ASSESSMENTS**

Year	Type	Description	Amount	Code	Description	Number	Amount	Comm. Int.
<b>Total:</b>								

**ASSESSING NEIGHBORHOOD**

NBHD/SUB	NBHD Name	Street Index Name	Tracing	Batch
C/A				

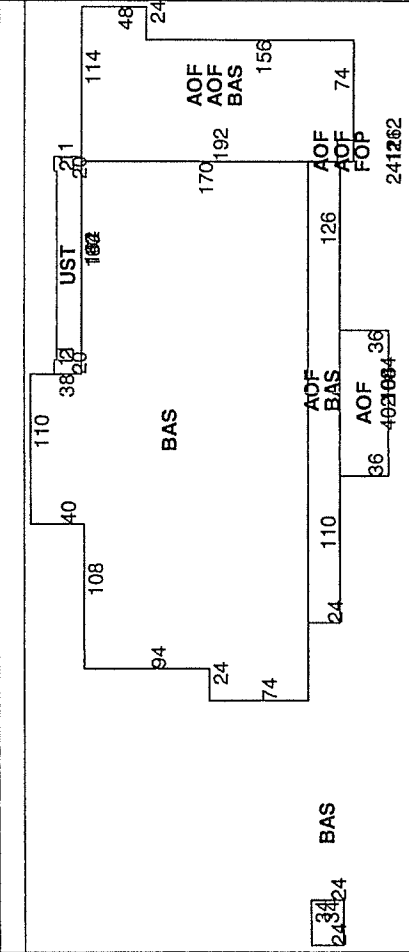
**NOTES**

SPR ENTIRE BUILDING-UST  
 A/C=AOF AREA  
 MERSEN, BOSTON BALLE, GZA GEOENVIRONMNT  
 ELEV=7,000 LBS 100 FPM 3  
 FLR PA WLT=AVG  
 SOME HT DUCTED SOME CBLING EXPOSED

**BUILDING PERMIT RECORD**

Permit ID	Issue Date	Type	Description	Amount	Insp. Date	% Comp.	Date Comp.	Comments
A/R 14-119	04/09/2014	IN	Industrial	44,000	07/01/2014	100	07/01/2014	RENOVATE INTERIOR 08/04/2014
493-10/05	10/14/2005	CM	Commercial	78,500		0		CONVERT 3RD FLOOR 08/25/2006
AR5-1/05	01/13/2005	CM	Commercial	24,280		0		REPAIR LOADING DOOR 07/01/2005
ARR 375	12/17/1997	CM	Commercial	19,000		100	05/05/1998	REMOD/BAT
AR95-5/96	05/02/1996	CM	Commercial	6,950	10/01/1996	100	10/01/1996	ALTERATIO
AR40-12/91	12/09/1991	CM	Commercial	14,000		0		TWO 500 G

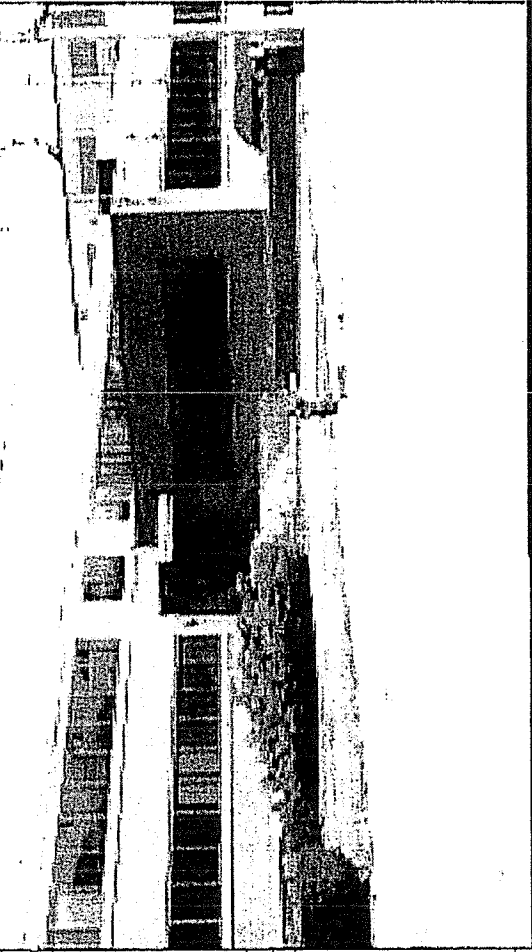
CONSTRUCTION DETAIL		CONSTRUCTION DETAIL (CONTINUED)	
Element	Cd.	Ch.	Description
Style	40		Light Indust
Model	96		Industrial
Grade	03		Average
Stories	3		
Occupancy	1		
Exterior Wall 1	20		Brick/Masonry
Exterior Wall 2	15		Concr/Cinder
Roof Structure	01		Fiat
Roof Cover	04		Tar & Gravel
Interior Wall 1	05		Drywall/Sheet
Interior Wall 2	01		Minim/Masonry
Interior Floor 1	05		Vinyl/Asphalt
Interior Floor 2	03		Concr-Finished
Heating Fuel	03		Gas
Heating Type	03		Hot Air-no Duc
AC Type	01		None
Bldg Use	4010		IND WHSES
Total Rooms	00		
Total Bedrms	00		
Total Baths	0		
Kitchen Grd			
Heat/AC	00		NONE
Frame Type	03		MASONRY
Baths/Plumbing	02		AVERAGE
Ceiling/Wall	04		CEIL & MIN WL
Rooms/Ptrns	02		AVERAGE
Wall Height	14		
% Comm Wall	0		



COST/MARKET VALUATION	
Code	Percentage
4010	100
IND WHSES	
Adj. Base Rate: 42.63	
Replace Cost	7,833,945
AYB	1958
EYB	1989
Dep Code	A
Remodel Rating	
Year Remodeled	54
Dep %	
Functional Obslnc	
External Obslnc	
Cost Trend Factor	1
Condition	
% Complete	46
Overall % Cond	
Apprais Val	3,603,600
Dep % Ovr	0
Dep Ovr Comment	
Misc Imp Ovr	0
Misc Imp Ovr Comment	
Cost to Cure Ovr	0
Cost to Cure Ovr Comment	

OB-OUTBUILDING & YARD ITEMS(L) / XF-BUILDING EXTRA FEATURES(B)										
Code	Description	Sub	Units	Unit Price	Yr	Gde	Dp Rt	Chd	%Cnd	Apr Value
PAV1	PAVING-ASPH	L	7,000	2.30	1998		0		50	8,100
SPR1	SPRINKLERS	B	152,742	70	1989		2		100	189,700
A/C	AIR CONDITN	B	60,691	50	1989		2		100	41,900
MEZ2	FINISHED	B	384	54.00	1989		2		100	6,000
LDL1	LOAD LEVEL	B	3	5,519.00	1989		2		100	7,600
ELY3	ELEVATOR C	B	1	95,000.00	1989		2		100	44,200

BUILDING SUB-AREA SUMMARY SECTION							
Code	Description	Living Area	Gross Area	Eff. Area	Unit Cost	Undeprac. Value	
AOF	Office	51,168	51,168	84,427	70.34	3,599,123	
BAS	First Floor	98,392	98,392	98,392	42.63	4,194,451	
FOP	Porch, Open	0	192	48	10.66	2,046	
UST	Utility, Storage, Unfinished	0	2,996	899	12.79	38,324	
<b>Ttl. Gross Liv/Lease Area:</b>					<b>149,560</b>	<b>152,748</b>	<b>183,766</b>
						<b>7,833,945</b>	



<b>CURRENT OWNER</b> GANTON LLC 210 COMMERCE WAY SUITE 100 PORTSMOUTH, NH 03801 Additional Owners:		<b>TOPO.</b> 1 Level		<b>UTILITIES</b> 8 None		<b>STRT./ROAD</b> 5 Industrial		<b>LOCATION</b> COM LAND COMMERC.		<b>CURRENT ASSESSMENT</b> Code 3370 Description 143,900 Assessed Value 23,600	
<b>SUPPLEMENTAL DATA</b> Other ID: 68-155 SUB-DIV: CONDO CV: PHOTO: INLAW Y/N: WARD: LOT SPLIT: TILE #: 40B HSNGL: ATT 1/2 HSE: GIS ID: M_249900_952692		<b>ASSOC PID#</b> 22957/0100 15940/0526 12409/0433 5437/157		<b>SALE DATE</b> 06/07/2004 U 09/17/1999 U 01/31/1994 U		<b>SALE PRICE</b> 6,100,000 1G 5,600,000 1G 0 1B 0		<b>V.C.</b> I I V		<b>PREVIOUS ASSESSMENTS (HISTORY)</b> Yr. Code Assessed Value Yr. Code Assessed Value 2017 3370 143,900 2016 3370 137,100 2017 3370 23,600 2015 3370 23,600	

RECORD OF OWNERSHIP		BK-VOL/PAGE	SALE DATE	q/u	v/i	SALE PRICE	V.C.
GANTON LLC	FERRAZ SHAWMUT INC.	22957/0100	06/07/2004	U	I	6,100,000	1G
FERRAZ SHAWMUT INC.	GOULD ELECTRONICS, INC.	15940/0526	09/17/1999	U	I	5,600,000	1G
CHASE-SHAWMUT CO		12409/0433	01/31/1994	U	V	0	1B
		5437/157				0	
<b>Total:</b>						167,500	

**EXEMPTIONS**

Year	Type	Description	Amount	Code	Description	Number	Amount	Comm. Int.
<b>OTHER ASSESSMENTS</b>								
<b>ASSESSING NEIGHBORHOOD</b>								
<b>NOTES</b>								

**APPRaised VALUE SUMMARY**

Appraised Bldg. Value (Card) 0  
 Appraised XF (B) Value (Bldg) 0  
 Appraised OB (L) Value (Bldg) 23,600  
 Appraised Land Value (Bldg) 143,900  
 Special Land Value 0  
 Total Appraised Parcel Value 167,500  
 Valuation Method: C  
 Adjustment: 0

**NET Total Appraised Parcel Value** 167,500

**VISIT/CHANGE HISTORY**

Permit ID	Issue Date	Type	Description	Amount	Insp. Date	% Comp.	Date Comp.	Comments
	02/16/2007	MI						
	05/05/1998	MH						
	03/13/1981	45						

LAND LINE VALUATION SECTION										
B Use Code	Use Description	Zone ID	Front	Depth	Units	Unit Price	I. Factor	A. Disc	C. Factor	ST. Idx
1	3370 PARK LOT	I2			15,500	SF	14.29	1.0000	C	0.50
<b>Total Card Land Units:</b> 0.36 AC										
<b>Parcel Total Land Area:</b> 0.36 AC										
<b>Total Land Value:</b> 143,900										

BUILDING PERMIT RECORD									
Permit ID	Issue Date	Type	Description	Amount	Insp. Date	% Comp.	Date Comp.	Comments	
	02/16/2007	MI							
	05/05/1998	MH							
	03/13/1981	45							

**VISION**

CONSTRUCTION DETAIL		CONSTRUCTION DETAIL (CONTINUED)											
Element	Description	Element	Description										
Model	00 Vacant												
		<b>MIXED USE</b>											
		Code	Description										
		3370	PARK LOT										
		<b>PERCENTAGE</b>											
			100										
		<b>COST/MARKET VALUATION</b>											
		Adj. Base Rate:	0.00										
		Replace Cost	0										
		AYB	0										
		EYB	0										
		Dep Code											
		Remodel Rating											
		Year Remodeled											
		Dep %											
		Functional Obslnc											
		External Obslnc											
		Cost Trend Factor	1										
		Condition											
		% Complete											
		Overall % Cond											
		Apprais Val											
		Dep % Ovr	0										
		Dep Ovr Comment											
		Misc Imp Ovr	0										
		Misc Imp Ovr Comment											
		Cost to Cure Ovr	0										
		Cost to Cure Ovr Comment											
<b>OB-OUTBUILDING &amp; YARD ITEMS(L) / XF-BUILDING EXTRA FEATURES(B)</b>													
Code	Description	Sub	Sub Descript	L/B	Units	Unit Price	Yr	Gde	Dp Rr	Cnd	%Cnd	Apr Value	
LTI	LIGHTS-IN W			L	9	935.00	2007		0		75	6,300	
PAV1	PAVING-ASPH			L	10,000	2.30	2007		0		75	17,300	
<b>BUILDING SUB-AREA SUMMARY SECTION</b>													
Code	Description	Living Area	Gross Area	Eff. Area	Unit Cost	Undeprac. Value							
							Ttl. Gross Liv/Lease Area:	0	0	0	0	0	

No Photo On Record

<b>CURRENT OWNER</b> GANTON LLC		<b>TOPO.</b> 1 Level	<b>UTILITIES</b> 8 None	<b>STRT./ROAD</b> 5 Industrial	<b>LOCATION</b> Industrial	<b>CURRENT ASSESSMENT</b>	
210 COMMERCE WAY SUITE 100						<b>Code</b> 3370	<b>Appraised Value</b> 180,000
PORTSMOUTH, NH 03801						<b>Code</b> 3370	<b>Assessed Value</b> 25,800
Additional Owners:		<b>SUPPLEMENTAL DATA</b>		<b>VISION</b>			
		68-154					
		CONDO CV:					
		INLAW Y/N:					
		PHOTO					
		WARD					
		6					
		TILE #:					
		ATT 1/2 HSE:					
		GIS ID: M_249842_952739					
		ASSOC PID#					

<b>RECORD OF OWNERSHIP</b>		<b>BK-VOL/PAGE</b>	<b>SALE DATE</b>	<b>q/u</b>	<b>v/i</b>	<b>SALE PRICE</b>	<b>V.C.</b>
GANTON LLC		22957/0100	06/07/2004	U	I	6,100,000	1G
FERRAZ SHAWMUT INC		15940/0526	09/17/1999	U	I	5,600,000	1G
GOULD ELECTRONICS, INC.		12409/0433	01/31/1994	U	V	0	1B
CHASE-SHAWMUT CO		5354/ 34				0	
<b>Total:</b>							

<b>EXEMPTIONS</b>		<b>Amount</b>	<b>Code</b>	<b>Description</b>	<b>Number</b>	<b>Amount</b>	<b>Comm. Int.</b>
<b>Total:</b>							

*This signature acknowledges a visit by a Data Collector or Assessor*

**APPRaised VALUE SUMMARY**

Appraised Bldg. Value (Card)	0
Appraised XF (B) Value (Bldg)	0
Appraised OB (L) Value (Bldg)	25,800
Appraised Land Value (Bldg)	180,000
Special Land Value	0
<b>Total Appraised Parcel Value</b>	<b>205,800</b>

Valuation Method:  
Adjustment:

**VISIT/CHANGE HISTORY**

Permit ID	Issue Date	Type	Description	Amount	Insp. Date	% Comp.	Date Comp.	Comments

**BUILDING PERMIT RECORD**

Permit ID	Issue Date	Type	Description	Amount	Insp. Date	% Comp.	Date Comp.	Comments

**LAND LINE VALUATION SECTION**

B #	Use Code	Use Description	Zone	D	Front	Depth	Units	Unit Price	I	Factor	S.A.	Disc	Acres	C	ST	Factor	Idx	Adj	Notes-Adj	S Adj Fact	Adj. Unit Price	Land Value
1	3370	PARK LOT	I2				43,560	6.30	1.0000	C	1.0000		0.50	C10	1.50	0.50	C10	0.00	UTILITY	1.00	4.10	178,400
1	3370	PARK LOT	I2				0.06	274,400.00	1.0000	C	1.0000		0.10			0.10		0.00		1.00	27,440.00	1,600

**Total Card Land Units:** 1.06 AC **Parcel Total Land Area:** 1.06 AC **Total Land Value:** 180,000



CONSTRUCTION DETAIL		Element	Cd.	Ch.	Description
Model	00	Vacant			

CONSTRUCTION DETAIL (CONTINUED)		Code	Description	Percentage
3370	PARK LOT			100

CONSTRUCTION DETAIL		COST/MARKET VALUATION	
Adj. Base Rate:		0.00	
Replace Cost		0	
AYB		0	
EYB		0	
Dep Code			
Remodel Rating			
Year Remodeled			
Dep %			
Functional Obslnc		1	
External Obslnc			
Cost Trend Factor			
Condition			
% Complete			
Overall % Cond			
Apprais Val		0	
Dep % Ovr		0	
Dep Ovr Comment			
Misc Imp Ovr		0	
Misc Imp Ovr Comment			
Cost to Cure Ovr		0	
Cost to Cure Ovr Comment			

OB-OUTBUILDING & YARD ITEMS(L) / XF-BUILDING EXTRA FEATURES(B)		Code	Description	Sub	Sub Descrip	L/B	Units	Unit Price	Yr.	Gade	Dp	Rt	Cnd	%Cnd	Apr	Value
PAV1	PAVING-ASPH					L	20,00	2.30	1998		0			50		23,000
LT2	W/DOUBLE L					L	3	1,869.00	1998		0			50		2,800

No Photo On Record

BUILDING SUB-AREA SUMMARY SECTION						
Code	Description	Living Area	Gross Area	Eff. Area	Unit Cost	Undeprac. Value
Totl. Gross Liv/Lease Area:		0	0	0	0	0

**LEGEND**

- LIGHT POLE
- UTILITY POLE
- CATCH BASIN
- SEWER MANHOLE
- CONCRETE MANHOLE
- POINT OF BEGINNING
- WATER GATE
- BITUMINOUS CONCRETE
- GRAVEL CONCRETE
- MONITORING WELL
- SQUARE FEET
- STONE BOUND LEAD
- PILE / ESCUTCHEON FIN

**ZONING DATA**

DISTRICT: INDUSTRIAL II	
MINIMUM LOT AREA ALLOWED:	202,933± S.F.
MINIMUM LOT FRONTAGE ALLOWED:	602.40
MINIMUM SETBACKS:	PROVIDED SETBACKS:
FRONT	50 FEET
SIDE	50 FEET
REAR	50 FEET
LOT COVERAGE:	52%
MAXIMUM BUILDING HEIGHT ALLOWED:	42.4'

**UTILITY LEGEND**

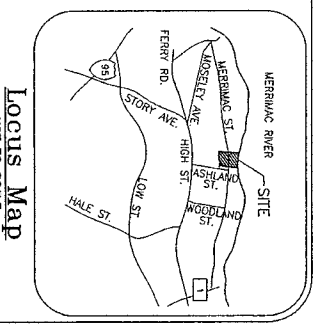
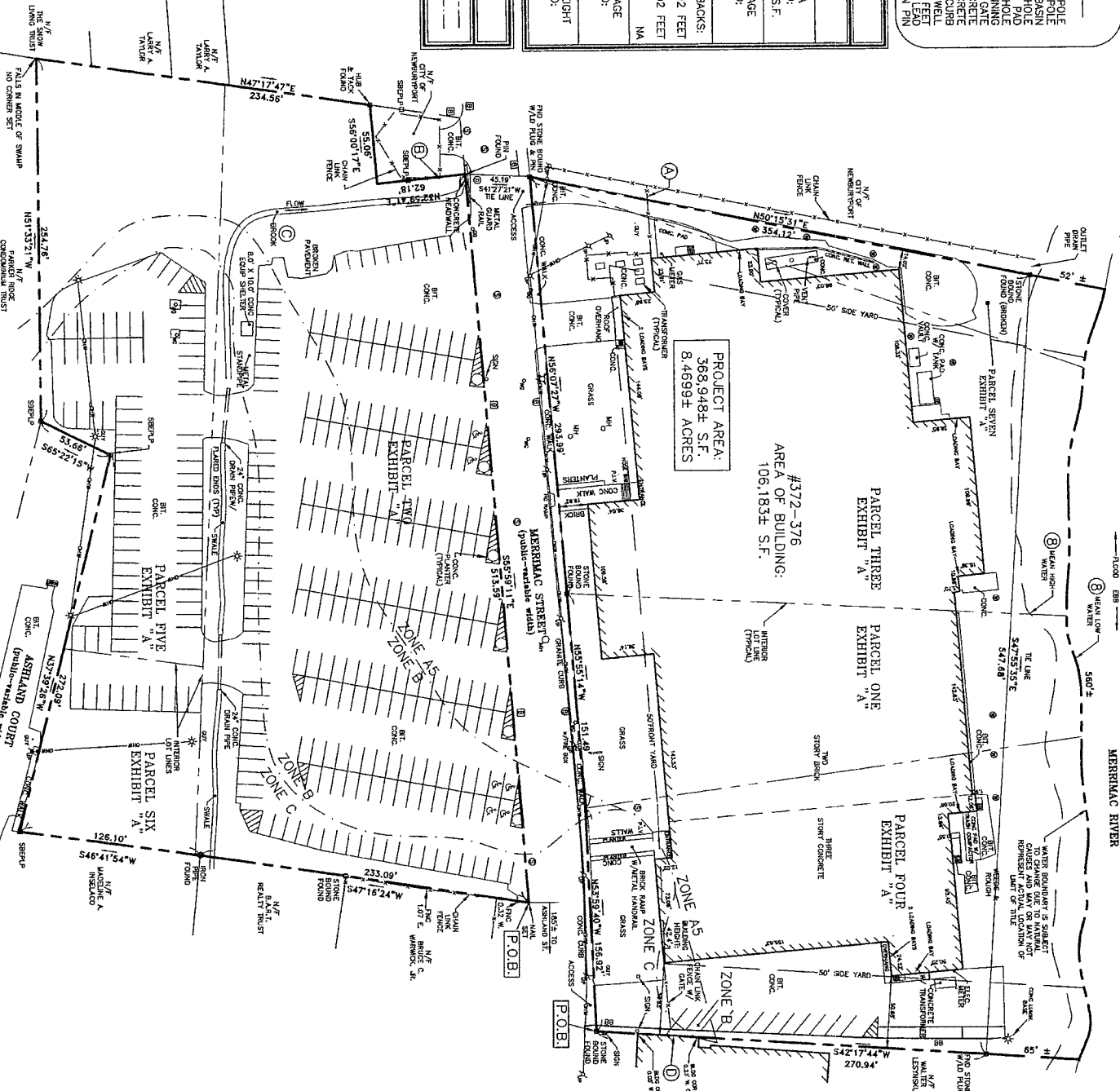
**ZONING NOTE:**  
Building Inspector: Gary Caldwell, Newburyport, MA  
By cooperation with the Building Inspector it was learned that the condition of pre-existing non-conformity exists with regard to the improvements on the property.

**PARKING NOTE:**  
Forking required for manufacturing use: 75 space per employee in maximum shift plus one space per company vehicle.  
There are 330 regular parking spaces (no compact spaces) on the subject premises plus 8 handicap spaces.

**FLOOD NOTE:** By graphic plotting only, this property is in Zone(A) of the Flood Insurance Rate Map, Community Panel No. 2500032, 2001, which bears an effective date of 1/1/88, and is in a Special Flood Hazard Area.



**SURVEYOR'S LEGAL DESCRIPTION**



**(EXHIBIT A) PARCELS 1, 3, 4, & 7 - PARCEL NORTHEASTERLY OF MERRIMAC STREET**  
Beginning at a point in the northeasterly street line of Merrimac Street, said point being the northeasterly corner of the herein described parcel, thence, N 53° 56' 40\"

**(EXHIBIT B) PARCELS 2, 5, & 6 - PARCEL SOUTHWESTERLY OF MERRIMAC STREET**  
Beginning at a point at the southeasterly corner of the herein described parcel, said point being the southeasterly corner of the herein described parcel, thence, S 47° 16' 24\"

**(EXHIBIT C) PARCELS 5, 6, & 7 - PARCEL SOUTHWESTERLY OF MERRIMAC STREET**  
Beginning at a point at the southeasterly corner of the herein described parcel, said point being the southeasterly corner of the herein described parcel, thence, S 47° 16' 24\"

**SCHEDULE B PART 1**

6. Sewer Easement set forth in a deed from the National Shawmut Bank of Boston dated July 10, 1925 and recorded with said Deeds, Book 4484, Page 255, as to the portion of the subject property shown on the survey, 372-376 Merrimac Street, Newburyport, MA. No evidence of a sewer line was observed on the subject property other than a sewer manhole between the building and Merrimac Street and plotted hereon.  
7. Notice to prevent easement by Chase Shawmut Company dated Aug. 12, 1940 and recorded in Book 3226, Page 578.  
8. Comment: Concerns the land on the southeasterly side of Merrimac Street, Boston in nature, that plotted.  
9. Comment: Concerns the land on the southeasterly side of Merrimac Street, Boston in nature, that plotted.  
10. Comment: Mean high and mean low water of said river is plotted hereon.  
11. Comment: The Chain link fence extending over the southeasterly property line of the parcel lying on the northeasterly side of Merrimac Street, the fence extends approximately 9 feet of chain link fence running from land of the City of Newburyport, across the line of Parcel Two for a distance of approximately 1.3 feet.  
12. Comment: Brook running through Parcel Two to Merrimac Street, and Comment: Ploited.  
13. Comment: Easement from Ganton, LLC to Massachusetts Electric Company dated May 26, 2005 and recorded in Book 24570, Page 321.  
14. Comment: Deed from the Chase-Shawmut Company, dated August 12, 1958, recorded with said Deeds, Book 4484, Page 255, as conveyed to the City of Newburyport by Harold E. Hoke, dated August 12, 1958, recorded with said Deeds, Book 4484, Page 255.

- NOTES:**
1. THE BASIS OF BEARINGS HEREON IS FROM A PLAIN ENTITLED "PLAN OF LAND IN NEWBURYPORT, MA, FOR GOLD LUMBER CO. DATED DEC. 14, 1990 BY W.C. CAMMETT ENG. INC. 297 ELM ST. AMESBURY, MA.
  2. THIS PLAN ARE APPROXIMATE ONLY AND ARE BASED UPON THE VARIOUS UTILITY COMPANIES' PLANS OF RECORD FROM THE VARIOUS UTILITY COMPANIES. WHETHER THE VARIOUS UTILITY COMPANIES' PLANS OF RECORD ARE CORRECT OR NOT IS NOT GUARANTEED BY THE SURVEYOR. THE ALTA/ACSM PRECISION SPECIFICATIONS WITHIN THIS PLAN ARE APPROXIMATE ONLY AND ARE BASED UPON THE VARIOUS UTILITY COMPANIES' PLANS OF RECORD FROM THE VARIOUS UTILITY COMPANIES. WHETHER THE VARIOUS UTILITY COMPANIES' PLANS OF RECORD ARE CORRECT OR NOT IS NOT GUARANTEED BY THE SURVEYOR.
  3. THE ALTA/ACSM PRECISION SPECIFICATIONS WITHIN THIS PLAN ARE APPROXIMATE ONLY AND ARE BASED UPON THE VARIOUS UTILITY COMPANIES' PLANS OF RECORD FROM THE VARIOUS UTILITY COMPANIES. WHETHER THE VARIOUS UTILITY COMPANIES' PLANS OF RECORD ARE CORRECT OR NOT IS NOT GUARANTEED BY THE SURVEYOR.

**EXHIBIT "A" LEGAL DESCRIPTION**

The land at 372-376 Merrimac Street, Newburyport, Essex County, Massachusetts consisting of seven parcels of land, bounded and described as follows:  
**PARCEL 1:** BEGINNING at the westerly corner thereof on said street by land formerly of John Currier, Jr.; thence running SOUTH-EASTERLY by said street on the line of the present fence, one hundred fifty feet and five inches; to other land now or formerly of John Currier, Jr.; thence North 61° 30' 00\"

**372-376 Merrimac Street and 10 Ashland Court**

**ALTA/ACSM LAND TITLE SURVEY**  
County of Essex, State of Massachusetts  
Based Upon Title Commitment No. H85-0360244  
of Commonwealth Land Title Insurance Company  
Bearing on effective date of XXX  
Surveyor's Certification

To: Ganton, LLC, Citizens Bank New Hampshire, together with its successors and assigns and Commonwealth Land Title Insurance Company.  
This is to certify that this map and the survey on which it is based was made in accordance with the Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established and adopted by ALTA and NSPS in 2005 and includes items 1 through 4, 6 through 11 and 13 through 16 of Table A thereof. Pursuant to the accuracy standards as adopted by ALTA and NSPS and in effect on the date of this certification, the undersigned further certifies that in my professional opinion, this is a Reliable Positional Accuracy of this survey does not exceed that which is specified therein.

Timothy S. Borbon  
Registration No. 4910  
Massachusetts  
Date of Last Renewal: 6/28/04  
Date Printed: 04/05/06

**CONECO**  
Engineers, Scientists  
& Land Surveyors  
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Survey Dept. Fax: (508) 697-3408  
PROJECT #1085 ACOO, FILE: 1085