Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OFFERWITHS UED

CITY OF PORTLAND

Please Read Application And Notes, If Any, Attached

PERIVINA INCRECTION

MAR 2 1 2008

MAR 2 | 200 Permit Number: 080190

CITY OF PORTLAND

CITY OF PORTLAND /Rev n Energy LLC installing Solar electric pane has permission to ____ n the ro ling and South wall of library Tines AT _512 STEVENS AVE 135 E007001 provided that the person or persons, epting this permit shall comply with all m or of the provisions of the Statutes of ances of the City of Portland regulating ne and of the O the construction, maintenance and u of buildings and ctures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

N fication inspect n must be a nand with n permit on procuble re this ding or the three diagrams and the second of the second of

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. Crea Cuas

Health Dept.

Appeal Board

Other

Department Name

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine	e - Building or Use	Permi	t Application	۱ [Permit No:	Issue Date:		CBL:	- ·
389 Congress Street, 04101	Tel: (207) 874-8703	, Fax:	(207) 874-8716	5 [08-0190	<u> </u>		135 E00	7001
Location of Construction:				wner Address:			Phone:		
512 STEVENS AVE			\vdash	89 CONGRESS	ST		<u> </u>		
Business Name:	Contractor Name				ontractor Address:			Phone	
	Revision Ener	gy LLC		_	09 Fox Street Po	rtland		207221634	
Lessee/Buyer's Name	Phone:	_		1	rmit Type: nstitutional				Zone:
Past Use: Proposed Use:				Pe	ermit Fee:	Cost of Wor	k: CE	O District:	
Lincoln Middle School	Lincoln Middl	e Schoo	ol - installing		\$490.00	\$46,50	0.00	5	
Solar electric pan the building and o library				Fl	IRE DEPT:	Approved Denied	Use Group		Type:
Proposed Project Description:						Ci.		MIK :	3/22/20
installing Solar electric panel wall of library	s on the roof of the build	ling and	on South		Signature: PEDESTRIAN ACTIVITIES DISTRICT (P.4.		(D) //W/S		
					ction: Approv		, <i>i</i> .	ed w/Conditions Denied	
			•	Si	gnature:		Da	ıte:	
Permit Taken By:	Date Applied For:				Zoning	Approva	 .I		
ldobson	03/03/2008								
1. This permit application d	loes not preclude the	Spe	cial Zone or Review	NS	Zonin	g Appeal		Historic Prese	rvation
Applicant(s) from meeting Federal Rules.		Sh	oreland		Variance			Not in District	or Landmark
2. Building permits do not i septic or electrical work.	include plumbing,	□w	etland		Miscella	neous		Does Not Requ	iire Review
3. Building permits are voice within six (6) months of		☐ Fle	ood Zone		Conditio	nal Use		Requires Revie	ew
False information may in permit and stop all work.	validate a building	☐ Su	bdivision		Interpreta	ation		Approved	
		√ Si⊓	te Plan Exemption	Y	Approve	d		Approved w/C	onditions
PERMIT	SSUED		Minor MM		Denied			Denied HM	
MAR 2 CITY OF P		Date:	Kwlandihon 1314/08 ABM	-	Date:		Date:	• ,• (
		c	ERTIFICATIO	ΟN	ſ				

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

X Final ispection required at completion of work.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects <u>DO</u> require a final inspection.

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.

Signature of Applicant/Designee

Signature of Inspections Official

Date

Date

•	ne - Building or Use Permit 01 Tel: (207) 874-8703, Fax: (20	Permit No: 08-019	Date Applied For: 03/03/2008	CBL: 135 E007001
Location of Construction:	Owner Name:	Owner Address:		Phone:
512 STEVENS AVE	CITY OF PORTLAND	389 CONGRE	ESS ST	
Business Name:	Contractor Name:	Contractor Addr	ess:	Phone
	Revision Energy LLC	109 Fox Stree	t Portland	(207) 221-6342
Lessee/Buyer's Name	Phone:	Permit Type: Educational		
Proposed Use:		Proposed Project Descrip	otion:	
Lincoln Middle School - in of the building and on Sout	stalling Solar electric panels on the ro h wall of library	South wall of library	ic panels on the roof o	of the building and on
Note:	Status: Approved with Conditions proved on the basis of plans submitted	Reviewer: Ann Machaodd. Any deviations shall requ	• • • • • • • • • • • • • • • • • • • •	Ok to Issue: 🔽
Note: 1) Separate permits are reconstructions.	Status: Approved with Conditions quired for any electrical, plumbing, or d to be submitted for approval as a pa	•	rke Approva	Date: 03/20/2008 Ok to Issue: ✓
Dept: Fire Note:	Status: Approved with Conditions	Reviewer: Capt Greg C	ass Approval	Date: 03/05/2008 Ok to Issue: ✓

Comments

3/4/2008-amachado: Spoke to Jen at Revision Energy. I told her that I needed a full site plan that showed exactly where the awning panels are being located on the building to check the side setbacks.

3/4/2008-amachado: Gave site plan exemption form to planning.

1) Install shall not obstruct any means of egress.

3/6/2008-gg: received granted site plan exemption as of 3/6/08. Gg filed exemption with permit (Jeanie)

General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: LINCOLN MIDDLE SCHOOL 522 STEVENS AVE PORTLAND, 04163					
Total Square Footage of Proposed Structure/A	rea	Square Footage of Lot	C= (1-A1), 04(0)		
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# 13 5 E 7	Name Re V	nust be owner, Lessee or Buyer 15101 Enercy 15101 St 2 Zip POETLAND, ME CH	221.6342		
Lessee/DBA (If Applicable)	Name Un	fferent from Applicant) celo Middle School 2 Stevens Ave 2 Zip Poetland, ME C4103	Cost Of Work: \$ 46,500,000 C of O Fee: \$ 490,000		
Current legal use (i.e. single family) School If vacant, what was the previous use? Proposed Specific use: Is property part of a subdivision? If yes, please name Project description: UnStalling Solal electric panels on the root of the bullding and on south wall of library.					
Contractor's name: REVISION ENERG	Y LLC		7		
Address: 109 fox Street City, State & Zip Poetland, ME 041() Who should we contact when the permit is ready: Jen Mailing address: Same as above					
Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.					

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division offige, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature: Falle	Date:	2/8/08	
This is not a permit; you may	not commence A	NY work until the permit is issue	



APPLICATION FOR EXEMPTION FROM SITE PLAN REVIEW

Applicant Applicant's Mailing Address Applicant's Foundation 779 Consultant/Agent/Phone Number	Application Story of Project N	ame/Description
Description of Proposed Development:	CBL: 135-	,
Please Attach Sketch/Plan of Proposal/Development	Applicant's Assessment (Yes, No, N/A)	Planning Office Use Only
Criteria for Exemptions: See Section 14-523 (4) on back side of form		
a) Within Existing Structures; No New Buildings, Demolitions or Additions	At the	- Sk. d 15 19140
b) Footprint Increase Less Than 500 Sq. Ft.	×	shallacamy
c) No New Curb Cuts, Driveways, Parking Areas	<i>f</i> · · ,	
d) Curbs and Sidewalks in Sound Condition/Comply with ADA	, i	- Yes
e) No Additional Parking/ No Traffic Increase		- Yes
f) No Stormwater Problems		180
g) Sufficient Property Screening		46
h) Adequate Utilities	NIN	

Planning Division Use Only

General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

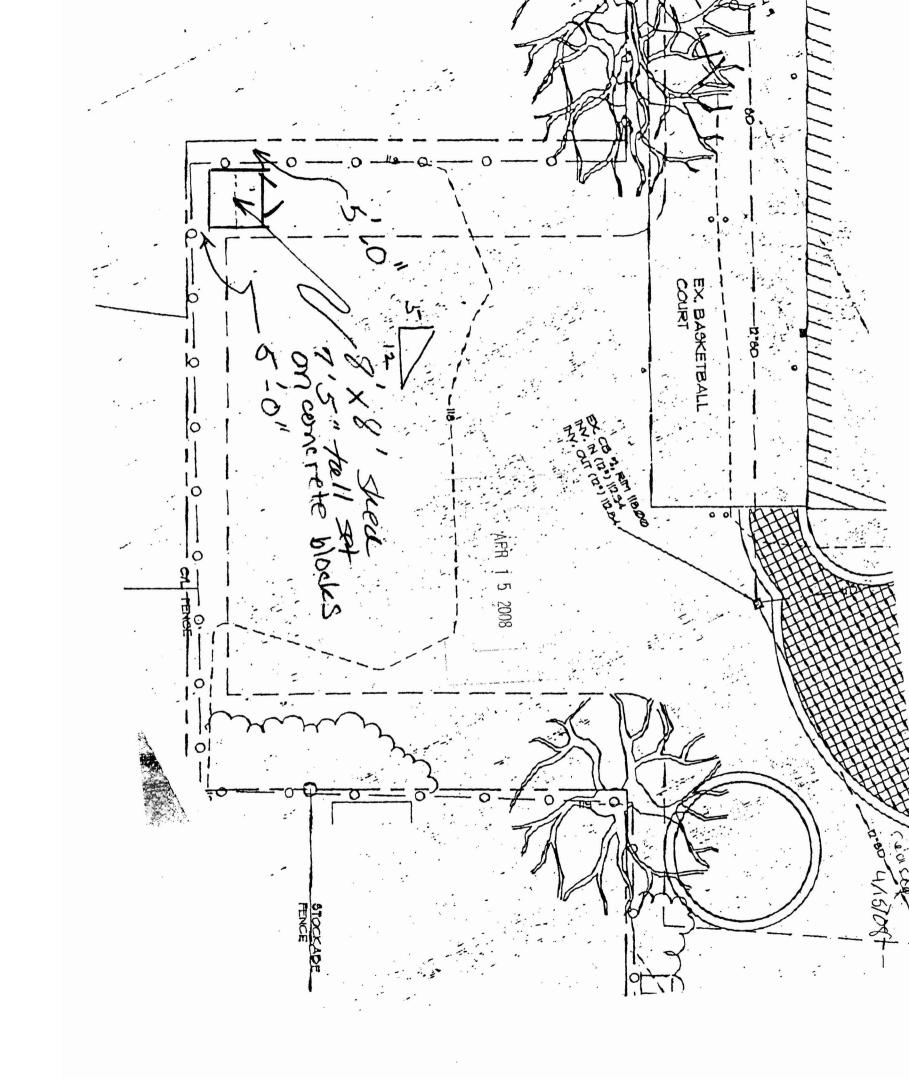
Location/Address of Construction: 21/	UCOIN MIDDLE SCHOOL 502 STEVENS AUL					
Total Square Footage of Proposed Structure/	Area Square Footage of Lot					
100 58ft						
Tax Assessor's Chart, Block & Lot	Applicant *must be owner, Lessee or Buyer* Telephone:					
Chart# Block# Lot#	Name Thomas FOURNIER					
135 2 7	Address 522 Stevens Ave 8/19/14					
	Cin Sura & 7 in Partland Me					
Lessee/DBA (If Applicable)	Owner (if different from Applicant) Owner (if different from Applicant)					
	Name Portrono Politic Seven ""					
	Address 196 Allen Aue Cof O Fee: \$					
	a constant me					
	City, State & Zip 1 O(103) Total Fee: \$ 30 /00					
Current legal use (i.e. single family)	hic School					
If vacant, what was the previous use?	201 2 Yau					
Proposed Specific use: 510000 of	Gardenne Jupples Whorfollog					
Is property part of a subdivision?	If yes, please name ' Y					
Project description: Con Struct	in of a 10'x10' storage shed					
In the educational	garden pear the geodesic					
dome, Built by Home Depot						
Contractor's name: 100-						
Address 245 Riverside St						
City, State & Zip Portland Me 04103 Telephone: 761-0600						
Who should we contact when the permit is re	Who should we contact when the permit is ready: Thomas For PAIN Telephone: 874 8145					
Mailing address: 245 RIVERSIDE St Port and me 04103						
Please submit all of the information	outlined on the applicable Checklist. Failure to					

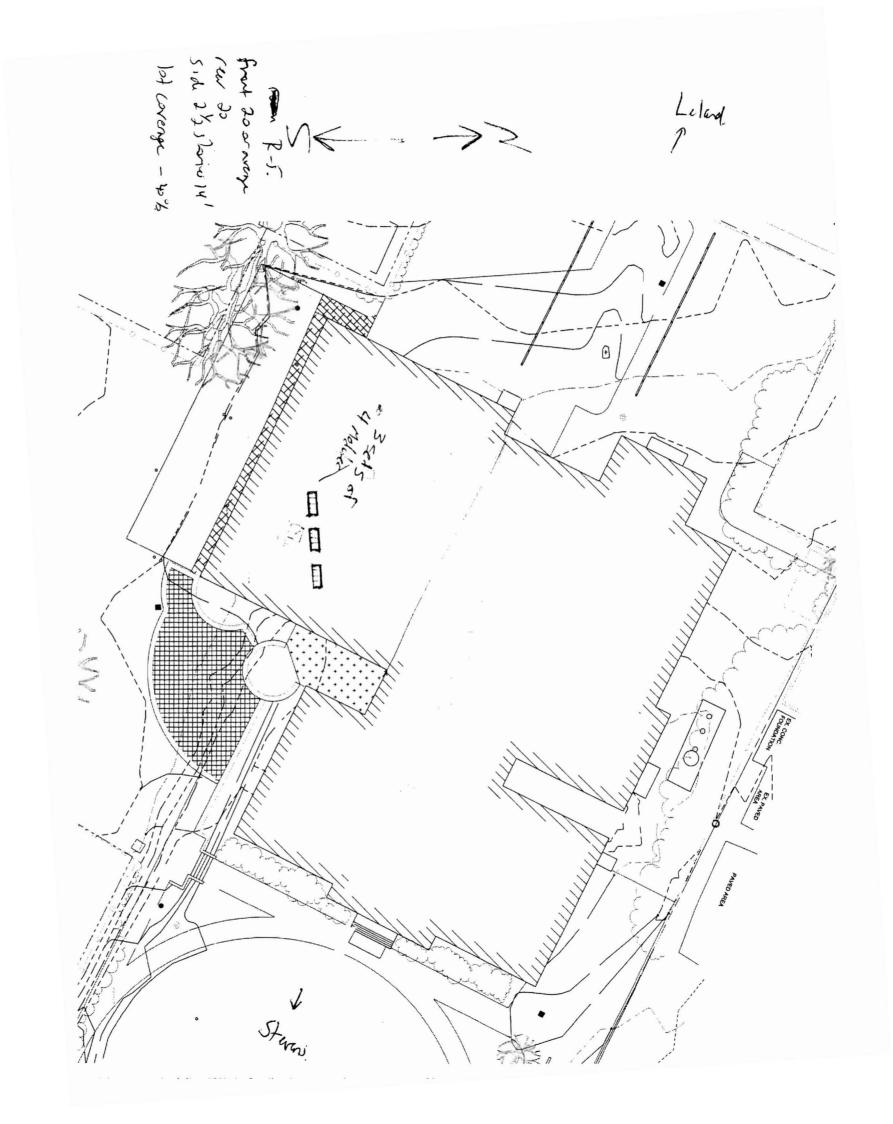
do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enter all areas covered by this permit at any reasonable hour to enter all areas covered by this permit at any reasonable hour to enter all areas covered by this permit at any reasonable hour to enter all areas covered by this permit at any reasonable hour to enter all areas covered by this permit at any reasonable hour to enter all areas covered by this permit at any reasonable hour to enter all areas covered by this permit at any reasonable hour to enter all areas covered by this permit at any reasonable hour to enter all areas covered by this permit at any reasonable hour to enter all areas covered by this permit at any reasonable hour to enter all areas covered by this permit at any reasonable hour to enter all areas covered by this permit at any reasonable hour to enter all areas covered by this permit at any reasonable hour to enter all areas covered by this permit at any reasonable hour to enter all areas covered by this permit at any reasonable hour to enter all areas covered by this permit at any reasonable hour to enter all areas covered by the c provisions of the codes applicable to this permit.

	7		
Signature: Thom	Date:	4/9/08	
This is not a permit you	may not commence A	NV work until the permit is issue	





Lincoln Middle School Away Mount



Solar Thermal collectors for Geo Dome 9 PV Module Awning Mount

Lincoln Middle School Rooftop Array (total of 12 Modules) · 3 groups of four on flat roof Total weight of array = 5/1/165 or 3.1 psf max PV module 3/8 SS threaded rod Panel Face View

Lincoln Middle School wall mounted array 9 & module Awning Style Photo-voltail array Font View Support System/ PV Modok/ masorry wall note: 1) Fail supports located every 18 4800 less per manufacture spros-2) All hardware is Stainless Steel for phone well be or Aluminum Jene Revision \$ 3/8 SS Threaded rod attached to a Lead anchor inside Masoncy vall or

Using epoxy fastoner such as Hills Hy-120 or Powers AC-100 with 6" embedment.

Wind Lad Chalites Sor Louch Mill School Vse 6.5.13 P=946 CN gh= ,00256 hz. hg. hg 212. T 1/12= 81 (In 1.4 6-3 Eypon (ed B) 427=1 hd = ,85 V=1000ph I = , f 7 9h=,0019.42. V2 6=.85

Poplet = .0019 (.81) .100² (.85) . Agg (-1.1) = 14.4 psf

Plan = .0019 (.81) . 100² (.87) (1.47) = +18.97 psf



March 03, 2008

Fortunat Mueller ReVision Energy 109 Fox St Portland, ME 04101

To whom it may concern,

I have reviewed the attached installation sketches and notes and find them to be adequate. The additional weight of the PV array on the roof is less than 3 psf and the existing roof structure is adequate to support this additional load.

Respectfully,

Fortunat Mueller ME PE # 11246



Certificate of Design

Date:	1/30/00
From:	Freigyworks LL(/ Revision Energy LLC

These plans and / or specifications covering construction work on:

Lincoln Middle School S22 Stevens Arenve 04103

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the **2003 International Building Code** and local amendments.

Signature:

Title:

Revision Energy

Address: 109 fox St

Portland, me 04101

Phone: 207-221-6342

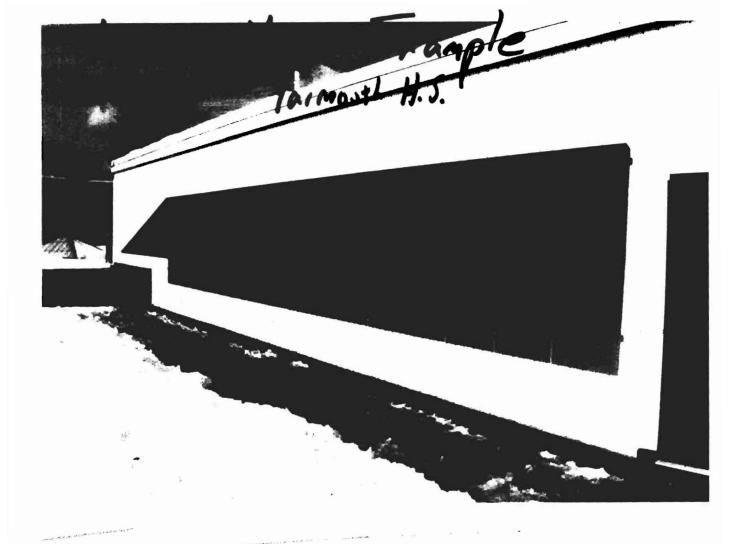
For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



From Designer:

Certificate of Design Application

Date:	1/30/06				
Job Name:	Name: Lincoln Middle School				
Address of Construction:	ion: 522 Stevens for PORTLAND ME 04103				
		,			
Control	2003 International	_	* 15 - 11 1		
Constr	uction project was designed to the	e building code criter	ia listed below:		
Building Code & Year	Use Group Classification	n (s)			
Type of Construction	_				
Is there a Fire suppression system	in Accordance with Section 903:3.1	of the 2003 IBC?	Supervisory alarm system?		
			d (section 302.3)		
	d? (See Section 1802.2)	-			
,					
Structural Design Calculations			_ Live load reduction		
Submitted for all s	structural members (106.1 – 106.11)		Roof live loads (1603.1.2, 1607.11)		
	_		Roof snow loads (1603.7.3, 1608)		
Design Loads on Construction Uniformly distributed floor live loads			Ground snow load, Pg (1608.2)		
· · · · · · · · · · · · · · · · · · ·	oads Shown		_ If $P_g > 10$ psf, flat-roof snow load p_f		
			If $P_g > 10$ psf, snow exposure factor, G		
			If $Pg > 10$ psf, snow load importance factor, _L		
			Roof thermal factor, _G (1608.4)		
			Sloped roof snowload, Pr (1608.4)		
Wind loads (1603.1.4, 1609)			Seismic design category (1616.3)		
Design option utilize	ed (1609.1.1, 1609.6)		Basic seismic force resisting system (1617.6.2)		
Basic wind speed (18	09.3)		Response modification coefficient, R ₁ and		
Building category an	d wind importance Factor, w		deflection amplification factor _{Cl} (1617.6.2)		
Wind exposure categ	table 1604.5, 1609.5) cory (1609.4)		Analysis procedure (1616.6, 1617.5)		
Internal pressure coeff	cient (ASCE 7)		Design base shear (1617.4, 16175.5.1)		
•	ng pressures (1609.1.1, 1609.6.2.2)	Flood loads (1			
	ires (7603.1.1, 1609.6.2.1)	11000 10003 (1	item according and		
Earth design data (1603.1.5, 1614	4-1623)		Flood Hazard area (1612.3) Elevation of structure		
Design option utilize	ed (1614.1)	Other loads	Elevation of structure		
Seismic use group ("		Other loads			
•	efficients, SDs & SD1 (1615.1)		_ Concentrated loads (1607.4)		
Site class (1615.1.5)			Partition loads (1607.5)		
			Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404		





SUNPOWER

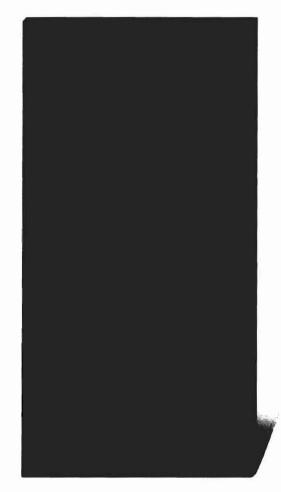
SPR-205-BLK RESIDENTIAL PV MODULE

The SunPower SPR-205-BLK is designed specifically for on-grid residential systems where a combination of high module efficiency and outstanding appearance is desirable. Utilizing 72 series-connected A-300 solar cells, the SPR-205-BLK delivers industry-leading power density in a unique all-black module package with exceptionally uniform appearance.

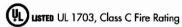
SunPower modules - innovative design, proven materials, outstanding performance.

FEATURES & BENEFITS

- All-black module package eliminates harsh reflections and other noticeable cosmetic module features to provide optimum array appearance
- Unique all-back contact solar cells with conversion efficiency up to 21.5%
- Low voltage temperature coefficient, exceptional low-light performance, and high sensitivity to light across the entire solar spectrum maximize yearly energy delivery
- Highest quality, high-transmission tempered glass provides enhanced stiffness and impact resistance
- Aerospace style cell interconnects with in-plane strain relief provide extremely high reliability
- Advanced EVA encapsulation system with multi-layer backsheet meets the most stringent safety requirements for high-voltage operation
- A sturdy, black anodized aluminum frame allows modules to be easily roof-mounted with a wide variety of standard mounting systems



SPR-205-BLK RESIDENTIAL PV MODULE An unequaled combination of power and grace





© December 2006 SunPower Corporation, All rights reserved. Specifications included in this datasheet are subject to change

Document# 001-12153 Rev **

SUNPOWER

SPR-205-BLK RESIDENTIAL PV MODULE

ELECTRICAL CHARACTERISTICS AT STANDARD TEST CONDITIONS (STC) STC is defined as: irradiance of 1000W/m², spectrum AM 1.5g and cell

temperature of 25°C

Peak Power ^{1,2}	P_{max}	20 <i>5</i> W
Rated Voltage	V_{mp}	40.0V
Rated Current	I _{mp}	5.13A
Open Circuit Voltage	V_{oc}	47.8V
Short Circuit Current	l _{sc} .	5.53A
Series Fuse Rating		15A
Maximum System Voltage		600V (UL)
		1000V (IEC)

Temperature Co-efficients -0.38%/℃ Power

> -136.8mV/°C Voltage

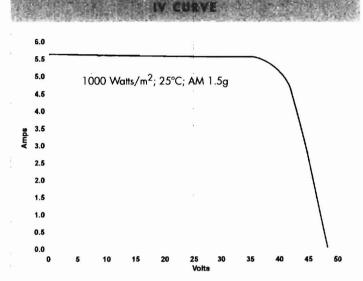
> > 2.3mA/°C

Module Efficiency 16.5%

Peak Power per Unit Area 15.3W/sq.ft.; 165W/m²

Current

PTC Rating 189W



Peak Power Tolerance: +/- 5%

² Power guaranteed for 25 years. See SunPower Limited Warranty for details.

MECHANICAL SPECIFICATIONS

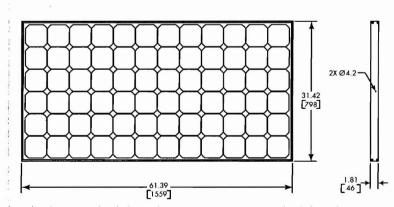
Length

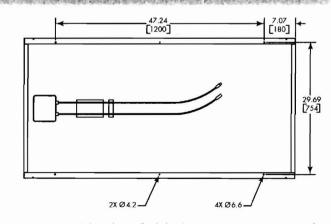
61.39 in x 31.42 in [1559 mm x 798mm]

Thickness, including junction box

1.81 in [46 mm]

Weight 33 lbs [15 kg]





Document# 001-12153 Rev **

SunPower Corporation®

1.877.SUN.0123 Email: sales@sunpowercorp.com **Engineered** in California

www.sunpowercorp.com



THE STANDARD IN PV MOUNTING STRUCTURES™



PV's Most Versatile Mounting System

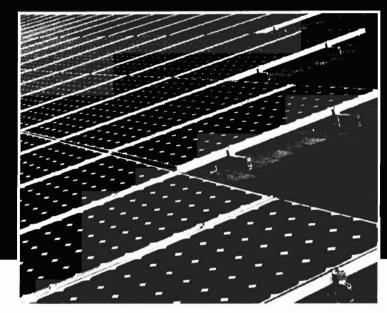




Low Profile



High Profile



www.unirac.com

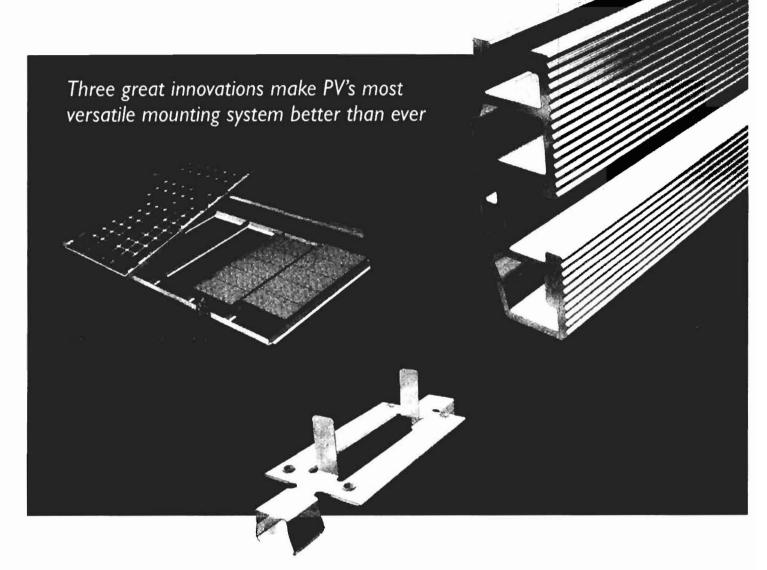
SolarMount is much more than a product.

It's a system of engineered components that can be assembled into a wide variety of PV mounting structures. With SolarMount you'll be able to solve virtually any PV module mounting challenge.

It's also a system of technical support: complete installation and code compliance documentation, an on-line SolarMount Estimator, person-to-person customer service, and design assistance to help you solve the toughest challenges.

Which is why SolarMount is PV's most widely used mounting system.

U.S. Des. Patent Nos. D496,248S, D496,249S. Other patents pending.



UniRac Grounding Clip

Save time and materials by eliminating the need to tediously install a grounding lug on each module and bare copper wire between all modules. Instead, simply press one of these clips into the top slot of the SolarMount rail at the end of the row and between each pair of modules as they are installed. Align and fasten the modules with SolarMount top mounting clamps in the usual manner. The nibs of the UniRac Grounding Clip pierce the anodizing as the mounting nuts are tightened, thus creating a ground path through the SolarMount rail. Complete the installation by installing one grounding lug at the end of the SolarMount rail. Connect the lugs with a bare copper wire to ground the entire array.

SolarMount® Light

Lower-cost SolarMount Light rail employs 38 percent less aluminum than standard rail, yet it's more than strong enough for flush applications. Use the same installer-friendly top mounting clamps and footing components that work with SolarMount standard rail.

SolarMount® Ballast Frame

The SolarMount system is more flexible than ever with the introduction of a ballast frame, in most cases requiring no penetrations whatsoever. Learn more from our data sheet *SolarMount Modular PV Ballast Frame*, which you can download at www.unirac.com.



SOLARMOUNT

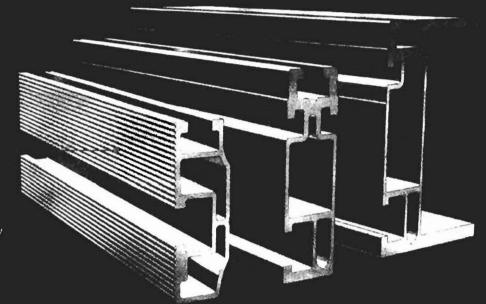
PV's most versatile mounting system

SolarMount® Rail Options

HD (heavy duty) rail adds the SolarMount advantage to PV PoleTops B. U LAs (see separate data sheets), and custom applications that require long spans.

Standard rail gives you ultimate flexibility, including bottom mounting and tilt-up options.

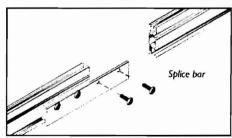
In flush mounted arrays, easy handling SolarMount & Light rail saves aluminum and expense without compromising structural integrity.

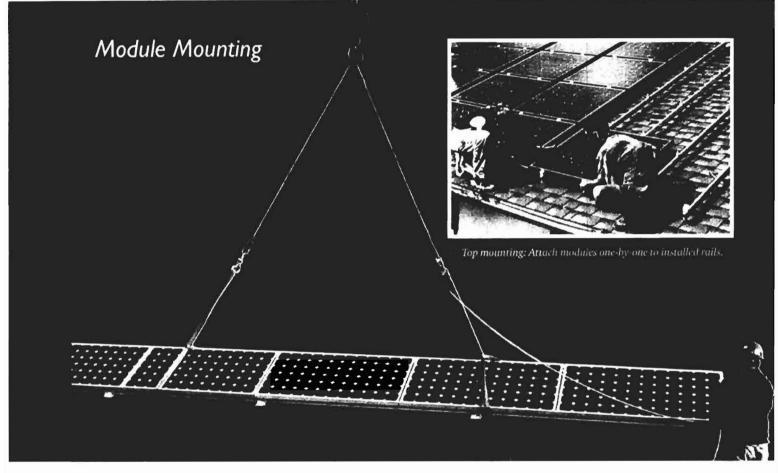


Bottom mounting slots Footing and splicing slots

Splice Bars

In flush and low profile installations, securely join **SolarMount®** rail sections using rail footing slots.





■ Bottom mounting: Preassemble full rows before final installation (standard and HD rail only).

Top Mounting Clamps

SolarMount
T-bolts quickly
mount your
modules to any
SolarMount rail
from the top.
This is ideal for
flush mount
applications,
such as

residential rooftops, where it is most convenient to secure footings and rails before installing modules. Clamps securely grip any point of the module frame, freeing you from the constraints of module mounting holes.



Bottom Mounting Clips

Use bottom mounting clips (standard and HD rail only) whenever you prefer to attach rails directly to the module mounting holes. Simply



fit the clip into its rail slot over the mounting bolt for a secure connection. Adjust the clip position anywhere along the rail slot. Alignment of rails to module mounting holes is always easy and convenient.

Junction Plates

In shared-rail configurations (standard and HD rail only), attach modules with four-slot junction plates. North-south slots secure the rail to



the plates. East-west slots secure a module on each side of the rail.

System Footing

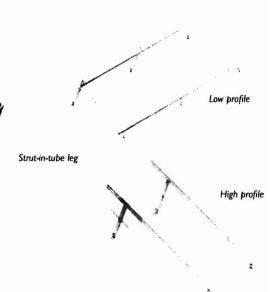
Use standoffs whenever flashed installations



Standard for ground mount asphalt composition shingles standoffs, Rail mounting holes are at two heights. In flush mounts, use the upper hole to raise the modules and promote air flow

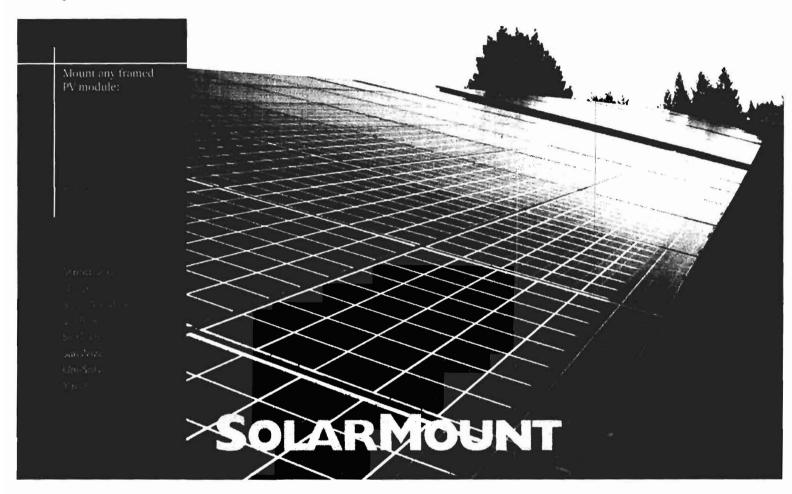
Strut-in-Tube Style Legs

Quickly set the precise tilt angle required. Styles are available for high profile (1 or 2 legs per rail) and low profile installations. Each series offers three leg lengths so that you can adjust to exactly the tilt angle you want - up to a maximum of 60 degrees—without cutting and drilling at the job site.



Start at www.unirac.com

Download our *SolarMount® Master Price List with Sizing Charts* and installation manuals. Generate quick price estimates with our on-line *SolarMount® Estimator*.



Code Compliant

The SolarMount® system is PE certified. Call UniRac for documentation applicable to your building code.

Component Specifications

6061-T6 and 6063-T5

· SolarMount ballast frame

6105-T5 aluminum extrusion

- SolarMount® rails
- · Mounting clips and clamps
- · Tilt legs and L-feet
- · two-piece standoffs

Severe Condition 4 (very severe) zinc-plated welded steel

· One-piece standoffs

18-8 stainless steel

Fasteners

Warranty

SolarMount® is covered by a 10-year limited product warranty and a 5-year limited finish warranty. For complete warranties, download any SolarMount® installation manual from our web site.



THE STANDARD IN PV MOUNTING STRUCTURES™

1411 Broadway NE, Albuquerque NM 87102-1545 USA

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APPLICATION FOR EXEMPTION FROM SITE PLAN REVIEW

Kingson Especially	N	14118		
Applicant Farmer	Application Date			
Applicant's Mailing Address	Project Na	ame/Description		
lea and lead	ne Market to a serie	· ()) i		
Consultant/Agent/Phone Number	Address of Proposed Site			
	CBL: 137 - 5	, O.J.		
Description of Proposed Development:				
milet 1. Loud to the deal of the	ferration to the second	H month is with		
we will be a hope of the				
19 1 - 3 dies				
Please Attach Sketch/Plan of Proposal/Development	Applicant's Assessment (Yes, No, N/A)	Planning Office Use Only		
Criteria for Exemptions: See Section 14-523 (4) on back side of form				
a) Within Existing Structures; No New Buildings, Demolitions or Additions		quiers on sac		
b) Footprint Increase Less Than 500 Sq. Ft.		40 -		
c) No New Curb Cuts, Driveways, Parking Areas				
d) Curbs and Sidewalks in Sound Condition/Comply with ADA				
e) No Additional Parking/ No Traffic Increase				
f) No Stormwater Problems				
g) Sufficient Property Screening				
h) Adequate Utilities				

General Building Permit Application

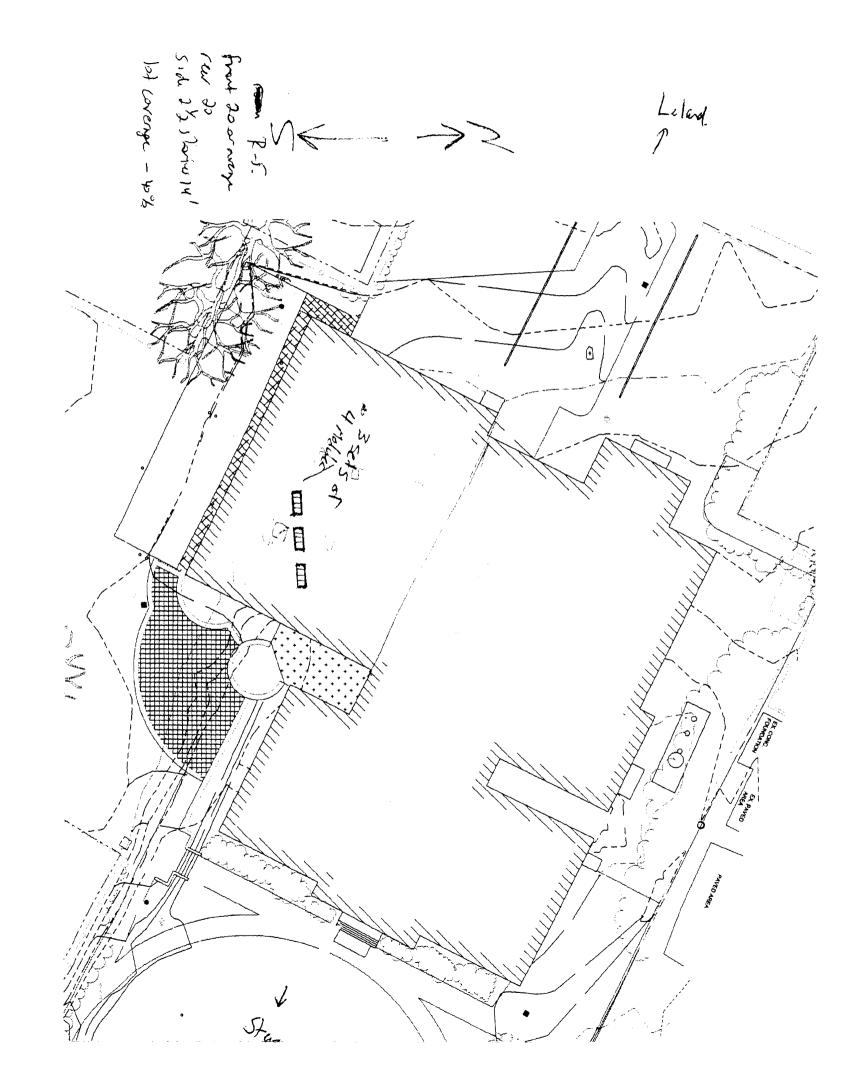
If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: Uncour	MIDDI	E SCHOOL	ORTIAND 04103		
Total Square Footage of Proposed Structure/Area		Square Footage of Lot			
Tax Assessor's Chart, Block & Lot	Applicant *	must be owner, Lessee or Buyer	* Telephone:		
Chart# Block# Lot#		Vision Energy	_		
135 E 7	Address 109 fox St				
		& Zip POETLAND, ME CHI	0/		
Lessee/DBA (If Applicable)	Owner (if o	lifferent from Applicant)	Cost Of 46,500,000		
	Name U	roch Middle School	Work: \$		
	Address 5	22 Stevens Lve	C of O Fee: \$		
	City, State	& Zip Poetland, ME 04103	Total Fee: \$ 490 107		
Current legal use (i.e. single family) Scho If vacant, what was the previous use? Proposed Specific use: Is property part of a subdivision? Project description: UnStable 19 Sold		If yes, please name	e roof of the		
building end on south wall of library.					
Contractor's name: Revision Energy LLC					
Address: 109 fox Street					
City, State & Zip Doe+ Land, ME 04101 Telephone: 221.6342 Who should we contact when the permit is ready: Jen Telephone:					
Who should we contact when the permit is ready: Jen Telephone:					
Mailing address: Same as above					
Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.					

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division offige, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature:	Date:	2/8/08	
This is not a permit; you may n	ot commence A	NY work until the permit is issue	A



Lincoln Middle School wall mounted array

9 module Awning Style Photo-voltail array Support Systemy PV Modok/ masonry wall noted) Fail supports locate per manufacture spece 2) All hardware is Stainless Stee from phone with or Aluminum Jene Perisiais @ 3/8 SS Threaded rod attached to a Lead anchor inside Masoncy vall or Using epoxy fastenes such as Hill Hy-120 or Powers AC-100 with 6" embedment.

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Lincoln Middle School Roottop Array (total of 12 Modules) · 3 groups of four on flat roof Total weight of array = 511165 or 3.1 psf max PV module Tilt Leg (Aluminum) 7 unistrut 3/8 SS threaded rod Panel Face View *cils*



March 03, 2008

Fortunat Mueller ReVision Energy 109 Fox St Portland, ME 04101

To whom it may concern,

I have reviewed the attached installation sketches and notes and find them to be adequate. The additional weight of the PV array on the roof is less than 3 psf and the existing roof structure is adequate to support this additional load.

Respectfully,

Fortunat Mueller ME PE # 11246



Certificate of Design

Date:		30/08				
From:	Energ	yworks L	L(/ Le	VIGION En	وده۲ در (
These plans and / or specifications covering construction work on: Lincoln Middle School 522 Sevens Avenue, 04103						

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the *2003 International Building Code* and local amendments.

Signature:

Title:

Revision Energy

Address: 109 fox St

Poetland, me 04101

Phone: 207 221 6342

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



Certificate of Design Application

From Designer:	Kelision Energy			
Date:	1/30/08			
Job Name:	Lincoln Middle Sch	nowl		
Address of Construction:	522 Stevens for	PORTLAND ME	04163	
			*	
Constr	2003 Internation ruction project was designed to	nal Building Code the building code criter	ia listed below:	
Building Code & Year	Use Group Classifica	ution (s)		
Type of Construction				
is there while suppression system		Barra de la Composition della	A The Standard Solids Dates at State 2 to 18	
			d (section 302.3)	
Geotechnical/Soils report require				
ovolution, controport require	di. (bee beelloit 1002.2)			
Structural Design Calculations			Live load reduction	
Submitted for all structural members (106.1 – 106.11)			_ Roof live loads (1603.1.2, 1607.11)	
Design Loads on Construction Documents (1603)			Roof snow loads (1603.7.3, 1608)	
			Ground snow load, Pg (1608.2)	
			If Pg > 10 psf, flat-roof snow load pf	
w			_ If $Pg > 10$ psf, snow exposure factor, G	
		:	If $Pg > 10$ psf, snow load importance factor, I_f	
			Roof thermal factor, G (1608.4)	
		3 	Sloped roof snowload, _{Pr} (1608.4)	
Wind loads (1603.1.4, 1609)			Seismic design category (1616.3)	
Design option utiliz			Basic seismic force resisting system (1617.6.2)	
Basic wind speed (1	,		Response modification coefficient, $_{R^{\prime}}$ and	
	nd wind importance Factor, but table 1604.5, 1609.5)		deflection amplification factor $_{G}$ (1617.6.2)	
Wind exposure cate			Analysis procedure (1616.6, 1617.5)	
Internal pressure coef	,	V	Design base shear (1617.4, 16175.5.1)	
Component and cladding pressures (1609.1.1, 1609.6.2.2) Main force wind pressures (7603.1.1, 1609.6.2.1)		Flood loads (1	Flood loads (1803.1.6, 1612)	
Earth design data (1603.1.5, 161			Flood Hazard area (1612.3)	
Design option utiliz	•		Elevation of structure	
Seismic use group (. ,	Other loads		
	pefficients, SDs & SD1 (1615.1)		Concentrated loads (1607.4)	
Site class (1615.1.5)		1 	Partition loads (1607.5)	
			Misc. loads (Table 1607 8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404	

Lincoln Addie School Awar Mount



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4 FV Medical Law 1 Mount

