

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

BUILDING INSPECTION

PERMIT

Permit Number: 031235

Please Read Application And Notes, if Any, Attached

This is to certify that City Of Portland/CPM Constructors

has permission to Foundation only for a 3,200 sq. ft. Light fixture

AT 295 Yellowbird Rd Permit No. 199 A001005

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, 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.

Notification of inspection must be given and work on permit in progress before this building or part thereof is occupied or closed-in. **48 HOUR NOTICE IS REQUIRED.**

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

OTHER REQUIRED APPROVALS

Fire Dept. _____

Health Dept. _____

Appeal Board _____

Other _____
Department Name

[Signature] 10/2/03
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 03-1235	Issue Date:	CBL: 199 A001005
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Location of Construction: 295 Yellowbird Rd	Owner Name: City Of Portland	Owner Address: 389 Congress St	Phone:
Business Name:	Contractor Name:	Contractor Address:	Phone:
Lessee/Buyer's Name	Phone:	Permit Type: Foundation Only/Commercial	Zone:

Past Use: Vacant	Proposed Use: Foundation only for a 3,200 sq.ft. Lightin Vault	Permit Fee:	Cost of Work: \$0.00	CEO District: 3
		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: <i>S2</i> Type: <i>2c</i> <i>10/6/03</i>	

Proposed Project Description: Foundation only for a 3,200 sq.ft. Lightin Vault	Signature:	Signature:
	PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)	
	Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied	
	Signature:	Date:

Permit Taken By: mjn	Date Applied For: 10/09/2003	Zoning Approval
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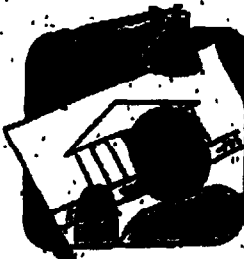
<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..</p>	<p>Special Zone or Reviews</p> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date:	<p>Zoning Appeal</p> <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	<p>Historic Preservation</p> <input type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date:
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CERTIFICATION

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 _____



CITY OF PORTLAND MAINE

389 Congress St., Rm 315

Portland, ME 04101

Tel. - 207-874-8704

Fax - 207-874-8716

TO: Inspector of Buildings City of Portland, Maine
Planning & Urban Development
Division of Housing & Community Services

FROM DESIGNER: ROBERT S. T. LIE

LIN ASSOCIATES, INC.

DATE: 9/23/03

Job Name: AIRFIELD LIGHTING VAULT - PORTLAND INTERNATIONAL JETPORT

Address of Construction: JOHNSON ROAD, PORTLAND, MAINE

THE BOCA NATIONAL BUILDING CODE/1999 Fourteenth EDITION
Construction project was designed according to the building code criteria listed below:

Building Code and Year: BOCA/1998 Use, Group Classification(s): S-2

Type of Construction: NON-COMBUSTIBLE Bldg. Height: 16 FEET Bldg. Sq. Footage: 3026 SF

Seismic Zone: Aa = 0.12 Group Class: III

Roof Snow Load Per Sq. Ft.: 36 PSF Dead Load Per Sq. Ft.: ACTUAL WEIGHT COMPONENT

Basic Wind Speed (mph): 90 Effective Velocity Pressure Per Sq. Ft.: 21 PSF

Floor Live Load Per Sq. Ft.: AS NOTED ON STRUCTURAL DRAWING

Structure has full sprinkler system? Yes No Alarm System? Yes No
Sprinkler & Alarm systems must be installed according to BOCA and NFPA Standards with approval from the Portland Fire Department.

Is structure being considered unlimited area building? Yes No

If mixed use, what subsection of 913 is being considered _____

List Occupant loading for each room or space, designed into this Project.

300 SF PER OCCUPANT

(Designers Stamp & Signature)
ROBERT S. T. LIE
No. 9444
REGISTERED PROFESSIONAL ENGINEER
STATE OF MAINE

20



**CITY OF PORTLAND
BUILDING CODE CERTIFICATE**
389 Congress St., Rm 315
Portland, ME 04101

TO: Inspector of Buildings City of Portland, Maine
Department of Planning & Urban Development
Division of Housing & Community Service

FROM: ROBERT S.T. LIE

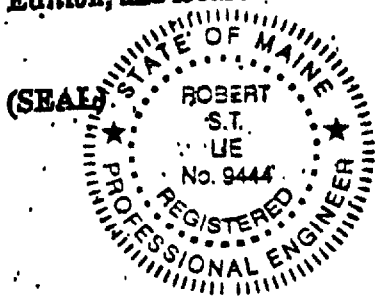
RE: Certificate of Design

DATE: 9/23/03

These plans and/or specifications covering construction work on:

AIRFIELD LIGHTING VAULT - PORTLAND INTERNATIONAL JETPORT

Have been designed and drawn up by the undersigned, a Maine registered architect/engineer according to the BOCA National Building Code 1999 Fourteenth Edition, and local amendments.



Signature Robert S.T. Lie

Title PRINCIPAL

Firm LIN ASSOCIATES, INC.

Address 2001 BEACON ST. #310
BRIGHTON, MA 02135

As per Maine State Law:

\$50,000.00 or more in new construction; repair, expansion, addition, or modification for Building or Structures, shall be prepared by a registered design



**CITY OF PORTLAND
ACCESSIBILITY CERTIFICATE**

Designer: ROBERT S.T. LIE

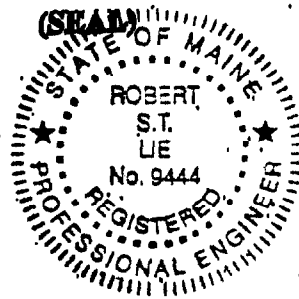
Address of Project JOHNSON RD., PORTLAND, ME

Nature of Project SINGLE STORY BUILDING TO HOUSE

AIRFIELD LIGHTING VAULT - PORTLAND JETPORT

Date 9/23/03

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act.



Signature: *Robert Lie*

Title PRINCIPAL

Firm LIN ASSOCIATES, INC.

Address 2001 BEACON ST. #310

BRIGHTON, MA 02135

Telephone (617) 566-4216



GORDIE

LIN LIN ASSOCIATES, INC.
CONSULTING ENGINEERS

Fax Transmittal

TO: Mike DeLuca	DATE: October 6, 2003
DeLuca Hoffman Associates, Inc.	JOB NO. 99010
FAX: 1.207.879.0896	RE: Airfield Lighting Vault – Portland Jetport
FROM: Gunadi Karjadi	The Program and Schedule of the Tests and
CC: Paul Mc Donough	Inspections
HNTB	
1.617.428.6905	PAGE 1 OF 11

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IF YOU DO NOT RECEIVE ALL PAGES. PLEASE CALL THE SENDER.

MESSAGE:

Mike:

As you've requested please find attached the Program and Schedule of the Tests and Inspections. I will mail the original today.

I also included the site visits schedule. Please do not hesitate to let us know if you want us to have a site visit eventhough is not marked as a milestone. The number of site visit can be added as necessary.

In order to keep abreast of the project, we would like to request a weekly photos to be emailed to us on the progress of the construction. Please email it to: gkarjadi@linboston.com.

Please review the program and schedule attached and let me know if you have any comment or questions.

Sincerely,

Gunadi Karjadi

PROGRAM OF TESTS AND INSPECTIONS

For Compliance with Chapter 17 of the BOCA National Building Code 1996 Edition

Project: **Airfield Lighting Vault
Portland International Jetport
Portland, Maine**

Owner: **The City of Portland**

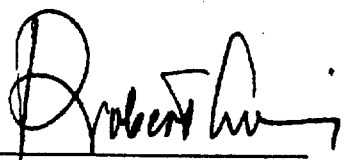
Architect & Structural Engineer of Record: **Lin Associates, Inc.**

This program of structural tests and inspections is submitted in accordance with Chapter 17 of the BOCA National Building Code 1996 Edition. It includes a schedule of tests and inspections applicable to this project as well as the names of individuals and the identity of other agencies intended to be retained for conducting these tests and inspections.

The Engineer of Record shall be kept informed on and be provided with all records on all inspections and tests and shall furnish reports, if required, to the Building Officials. The Engineer of Record shall review inspections and testing reports and shall give written notice of non-conforming work to the Contractor for corrections. The Program of Tests and Inspections does not relieve the Contractor of his/her responsibilities and obligations to comply with the Contract Documents. Furthermore, the results of the Program of Tests and Inspections do not relieve the Contractor of his/her responsibilities on the Project.

Job site safety is solely the responsibility of the Contractor and not part of the Program of Tests and Inspections. Materials and activities to be inspected do not include the Contractor's equipment or the means, methods, and procedures used to erect or install the materials or assemblies listed.

Submitted by:
Lin Associates, Inc.



Robert Lie, P.E.

Principal

Date: *5 October 2003*

Attachments.

Schedule of Tests and Inspections

**Airfield Lighting Vault
Portland International Jetport
Portland, Maine**

AGENCIES:

Architect & Structural Engineer of Record (LIN)	Lin Associates, Inc. Brighton, MA (617) 566-4216 Fax (617) 566-6038
Mechanical Engineer (ME)	SED Associates Boston, MA (617) 350-7245 Fax (617) 350-0332
Geotechnical Engineer (GE)	DeLuca Hoffman Associates, Inc. South Portland, ME (207) 775-1121 Fax (207) 879-0896
General Contractor (GC)	CPM Contractors Freeport, ME (207) 865-0000 Fax (207) 865-4836
Resident Engineer (RE)	DeLuca Hoffman Associates, Inc. South Portland, ME (207) 775-1121 Fax (207) 879-0896
Testing Laboratory (TL)	S.W. Cole Engineering, Inc. Gray, ME (207) 657-2866 Fax (207) 657-2840
Manufacturer Technician (MT)	

Schedule of Tests and Inspections

Airfield Lighting Vault
Portland International Jetport
Portland, Maine

Page 2 of 8

Soil

Item	Agency	Scope
1. Excavation	GE	Evaluate soil at or below bottom of footings for consistency with materials encountered during initial subsurface exploration.
2. Bearing Soil	GE	Evaluate undisturbed or prepared bearing surface for conformance with design recommendation.
3. Structural Fill	GE, TL	<input type="checkbox"/> Evaluate for conformance with Contract Documents. <input type="checkbox"/> Inspect placement of lifts. <input type="checkbox"/> Perform in-situ compaction test.
4. Prepared Fill	GE, TL	<input type="checkbox"/> Evaluate site preparation prior to placement of fill <input type="checkbox"/> Evaluate placement and compaction of fill. <input type="checkbox"/> Determine in-place dry density and conformance with Contract

Schedule of Tests and Inspections

Airfield Lighting Vault
 Portland International Jetport
 Portland, Maine

Page 3 of 8

Cast-in Place Concrete:

Item	Agency	Scope
1. Mix Design	LIN	Review mix designs.
2. Materials Certification	LIN	Review for conformance to specifications.
3. Shop Drawings	LIN	Review shop drawings for conformance with overall design intent.
4. Reinforcement Installation	RE, TL, LIN*	Inspect reinforcing for size, quantity, condition and placement for conformance with approved shop drawings.
5. Formwork	RE	Inspect form size and alignment.
6. Concrete Placement	RE, TL	Observe concrete placement operations. Verify conformance to specifications including cold-weather and hot-weather placement procedures (RE). Perform slump, density and air content tests at point of discharge (TL).
7. Evaluation of Concrete Strength	TL, LIN	Test (TL) and evaluate (LIN) in accordance with the specifications.
8. Curing and Protection	RE	Observe procedures for conformance to the specifications
9. Installation of Rebar Adhesive Anchors	RE	Observe installation procedure for conformance with the manufacturers recommendations.

*LIN to make site visits at appropriate intervals.

Schedule of Tests and Inspections

Airfield Lighting Vault
Portland International Jetport
Portland, Maine

Page 4 of 8

Masonry

Item	Agency	Scope
1. Mix Design	LIN	Review mix designs.
2. Materials Certification	LIN	Review for conformance to specifications.
3. Shop Drawings	LIN	Review shop drawings for conformance with overall design intent.
3. Masonry Sample Panel	RE, LIN	During site visit, LIN to observe finished masonry sample panel for compliance with design intent.
4. Masonry Construction	RE, LIN*	RE to perform daily inspection and evaluation of masonry placement, reinforcing, grouting etc. LIN* to visit site, to observe masonry placement for general compliance with design intent.
5. Curing and Protection	RE	Inspection for maintenance of specified curing temperatures and techniques, especially during cold weather.

*LIN to make site visits at appropriate intervals.

Schedule of Tests and Inspections

Airfield Lighting Vault
 Portland International Jetport
 Portland, Maine

Page 5 of 8

Structural Steel (includes Miscellaneous Metals shown on Structural Drawings)

Item	Agency	Scope
1. Fabricator Certification / Quality Control Procedures	TL	Review each fabricators quality control procedures.
2. Fabricator Inspection	TL, LIN	Inspect in-plant fabrication (TL), or review fabricator's approved Independent Inspection Agency's reports (LIN).
3. Material Certification	LIN	Review for conformance to contract documents.
4. Bolting	TL, RE	Visually inspect bolted connections in accordance with the specifications. Verify bolt size, grade and location.
5. Welding	TL, RE	Check welder certifications. Inspect and test welds in accordance with the specifications.
6. Structural framing, Details, and Assemblies	RE, TL, LIN*	Inspect for size, grade of steel, camber, installation and connection details. Check against approved construction documents and shop drawings.

*LIN to make site visits at appropriate intervals.

Schedule of Tests and Inspections

Airfield Lighting Vault
Portland International Jetport
Portland, Maine

Page 6 of 8

Steel Joists & Steel Deck

Item	Agency	Scope
1. Manufacturer Qualification / Certification	LIN	Manufacturer must meet SJI specifications and to submit qualification and certification
2. Shop Drawings	LIN	Review shop drawings for conformance with overall design intent.
4. Installation	RE, LIN*	Verify that type, size, quantity, location, details, and connections of framing members conform to approved submittals and the contract documents.
5. Welding	TL, RE	Check the welder's qualifications. Verify that welding conforms to AWS specifications, approved submittals and the contract documents. Visually inspect welds.
6. Other Fasteners	RE	Verify fastener type and installation procedures. Verify that fasteners conform to approved submittals and the contract documents. Verify that fasteners are installed tight.
7. Steel Decking	TL, RE, LIN*	Verify gage, width, and type. Inspect placement, laps, welds, sidelap attachment and screws or other mechanical fasteners. Check welder qualifications.

*LIN to make site visits at appropriate intervals.

Schedule of Tests and Inspections

Airfield Lighting Vault
 Portland International Jetport
 Portland, Maine

Joint Sealants

Item	Agency	Scope
1. Product Certification / Qualification Data	LIN	Review for conformance to contract documents.
2. Material Certification	LIN	Review for conformance to contract documents.
3. Product Test Reports	TL	Perform testing to comply with requirements
4. Installation	RE	Observe installation procedure for conformance with the manufacturers recommendations.

Schedule of Tests and Inspections

Airfield Lighting Vault
Portland International Jetport
Portland, Maine

Page 8 of 8

Mechanical Systems

Item	Agency	Scope
1. Boiler	RE, MT	The proper operation of the boiler system shall be certified by a factory authorized service representative as required by the specifications. This shall include coordination with the control contractor to ensure that the controls operate the boiler in a manner that is acceptable to the boiler manufacturer.
2. Unit Heater	RE, MT	The HVAC contractor shall provide start-up and testing services for these items. Coordinate with the controls contractor to ensure proper operation.
3. Radiant Heating	RE, MT	The proper operation of the radiant slab heating system shall be certified by a factory authorized service representative. This shall include coordination with the control contractor to ensure that the controls operate the system in a manner that is acceptable to the system manufacturer.
4. Air-Conditioning	RE, MT	The proper operation of the split-system air conditioner shall be certified by a factory authorized service representative as required by the specifications. This shall include coordination with the control contractor to ensure that the controls operate the system in a manner that is acceptable to the system manufacturer.
5. Control	RE, MT	Controls are by the owner but should have a certified start-up performed to ensure proper operation of the HVAC system. This will need to be coordinated between the controls contractor and the HVAC contractor and his suppliers.

*ME to make site visits at appropriate intervals.

Airfield Lighting Vault
Portland International Jetport
Portland, Maine

Site Visits Schedule

Site visits will be necessary at these milestones:

For Architect / Structural Engineer:

- 1) Footing is installed and prior to the foundation wall being poured.
Masonry Panel sample erected. (Secondary)
- 2) Slab reinforcing and Radiant slab piping installed and prior to the slab being poured.
Masonry Panel sample erected. (Secondary)
- 3) Steel Joist erected and some steel deck installed.
- 4) Substantial completion / Punch List.
- 5) As required.

For Mechanical Engineer:

- 1) Radiant slab piping installed and prior to the slab being poured.
- 2) After system rough-in has been performed.
- 3) Final inspection once all equipment is in and operational.