

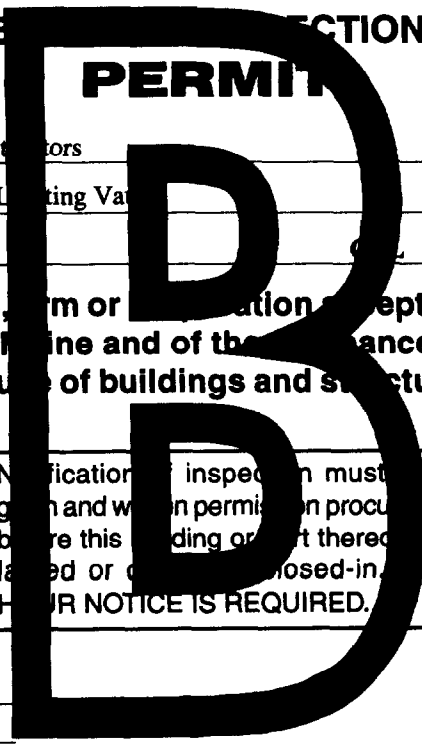
DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read
Application And
Notes, If Any,
Attached

ENGINEERING SECTION

Permit Number: 031175

PERMIT



This is to certify that City Of Portland/CPM Constructors

has permission to Build 3, 200 sq. Ft Airfield Lighting Van

AT 295 Yellowbird Rd 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 when permission is procured before this building or part thereof is placed or closed-in. **24 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. H.M.S.

Health Dept. _____

Appeal Board _____

Other _____
Department Name

[Signature]
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: 03-1175	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: 207-874-8654
Business Name: n/a	Contractor Name: CPM Constructors	Contractor Address: 30 Bonney Rd. Freeport	Phone: 2078650000
Lessee/Buyer's Name n/a	Phone: n/a	Permit Type: Additions - Commercial	Zone: AB

Past Use: Vacant Land / Portland International AirPort	Proposed Use: Portland International Airport / Build 3,200 sq. Ft. Airfield Lighting Vault	Permit Fee: \$5,196.00	Cost of Work: \$575,000.00	CEO District: 3
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Proposed Project Description: Build 3, 200 sq. Ft Airfield Lighting Vault	FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: <i>S2</i> Type: <i>2C</i> <i>10/21/03</i> <i>[Signature]</i>
	Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>
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: gg	Date Applied For: 09/24/2003	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> <p><input checked="" type="checkbox"/> Shoreland <i>Wells over 15 ft from Wm</i></p> <p><input type="checkbox"/> Wetland</p> <p><input type="checkbox"/> Flood Zone <i>Panel 3</i></p> <p><input type="checkbox"/> Subdivision</p> <p><input checked="" type="checkbox"/> Site Plan <i>2003-0118</i></p> <p>Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/></p> <p>Date: <i>OK 9/25/03</i></p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Denied</p> <p>Date: _____</p>	<p>Historic Preservation</p> <p><input checked="" type="checkbox"/> Not in District or Landmark</p> <p><input type="checkbox"/> Does Not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>[Signature]</i></p>
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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 _____

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering Station 10
(207) 287-5872 FAX (207) 287-4172

PROPERTY LOCATION		>> Caution: Permit Required - Attach In Space Below <<
City, Town, or Plantation	PORTLAND	The Subsurface Wastewater Disposal System <i>shall not</i> be installed until a Permit is attached HERE by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.
Street or Road	YELLOWBIRD LANE	
Subdivision, Lot *	PORTLAND JETPORT	
OWNER/APPLICANT INFORMATION		
Name (last, first, MI)	JETPORT PORTLAND INTERNATIONAL	
Mailing Address of	DELUCA-HOFFMAN	
<input type="checkbox"/> Owner <input checked="" type="checkbox"/> Applicant	778 MAIN STREET, SUITE B SOUTH PORTLAND, ME 04106	
Daytime Tel. *	775-1121	Municipal Tax Map * _____ Lot * _____
Owner or Applicant Statement		Caution: Inspections Required
I state that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a permit.		I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.
_____ Signature of Owner/Applicant		_____ Local Plumbing Inspector Signature
_____ Date		_____ (1st) Date Approved
		_____ (2nd) Date Approved

PERMIT INFORMATION

TYPE OF APPLICATION 1. <input checked="" type="checkbox"/> First Time System 2. <input type="checkbox"/> Replacement System Type Replaced: _____ Year Installed: _____ 3. <input type="checkbox"/> Expanded System a. <input type="checkbox"/> One-time exempted b. <input type="checkbox"/> Non exempted 4. <input type="checkbox"/> Experimental System 5. <input type="checkbox"/> Seasonal Conversion	THIS APPLICATION REQUIRES 1. <input checked="" type="checkbox"/> No Rule Variance 2. <input type="checkbox"/> First Time System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 3. Replacement System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 4. <input type="checkbox"/> Minimum Lot Size Variance 5. <input type="checkbox"/> Seasonal Conversion Approval	DISPOSAL SYSTEM COMPONENT(S) 1. <input checked="" type="checkbox"/> Complete Non-Engineered System 2. <input type="checkbox"/> Primitive System (graywater & alt toilet) 3. <input type="checkbox"/> Alternative Toilet, specify: _____ 4. <input type="checkbox"/> Non-Engineered Treatment Tank (only) 5. <input type="checkbox"/> Holding Tank, _____ Gallons 6. <input type="checkbox"/> Non-Engineered Disposal Field (only) 7. <input type="checkbox"/> Separated Laundry System 8. <input type="checkbox"/> Complete Engineered System (2000 gpd+) 9. <input type="checkbox"/> Engineered Treatment Tank (only) 10. <input type="checkbox"/> Engineered Disposal field (only) 11. <input type="checkbox"/> Pre-treatment, specify: 12. <input type="checkbox"/> Miscellaneous components
SIZE OF PROPERTY <input type="checkbox"/> sq. ft. <input type="checkbox"/> acres	DISPOSAL SYSTEM TO SERVE 1. <input type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: _____ 2. <input type="checkbox"/> Multiple Family Dwelling, No of Units: _____ 3. <input checked="" type="checkbox"/> Other: <u>ELECTRICAL VAULT</u> SPECIFY	TYPE OF WATER SUPPLY 1. <input type="checkbox"/> Drilled Well 2. <input type="checkbox"/> Dug Well 3. <input type="checkbox"/> Private 4. <input checked="" type="checkbox"/> Public 5. <input type="checkbox"/> Other:
SHORELAND ZONING <input type="checkbox"/> Yes <input type="checkbox"/> No		

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK 1. <input checked="" type="checkbox"/> Concrete a. <input checked="" type="checkbox"/> Regular b. <input type="checkbox"/> Low Profile 2. <input type="checkbox"/> Plastic 3. <input type="checkbox"/> Other: _____ CAPACITY <u>750</u> gallons	DISPOSAL FIELD TYPE & SIZE 1. <input type="checkbox"/> Stone Bed 2. Stone Trench 3. <input checked="" type="checkbox"/> Proprietary Device a. <input type="checkbox"/> Cluster array c. <input type="checkbox"/> Linear b. <input checked="" type="checkbox"/> Regular d. <input type="checkbox"/> H-20 loaded 4. <input type="checkbox"/> Other: SIZE <u>200</u> <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft. <u>5 PLASTIC CHAMBERS</u>	GARBAGE DISPOSAL UNIT 1. <input checked="" type="checkbox"/> No 3. <input type="checkbox"/> Maybe 2. <input type="checkbox"/> Yes >> Specify one below: a. <input type="checkbox"/> Multi-compartment tank b. <input type="checkbox"/> Tank in series c. <input type="checkbox"/> Increase in tank capacity d. <input type="checkbox"/> Filter on tank outlet	DESIGN FLOW <u>15</u> gallons per day BASED ON: 1. <input checked="" type="checkbox"/> Table 501.1 (dwelling unit(s)) 2. <input type="checkbox"/> Table 501.2 (other facilities) SHOW CALCULATIONS - for other facilities - ELECTRICAL VAULT 1 EMPLOYEE @ 15 GPD 3. <input type="checkbox"/> Section 503.0 (meter readings) ATTACH WATER-METER DATA
SOIL DATA & DESIGN CLASS PROFILE <u>12</u> / <u>C/D</u> / DESIGN <u>3</u> AT Observation Hole # <u>203</u> Depth <u>12</u> " Elevation _____ " OF MOST LIMITING SOIL FACTOR	DISPOSAL FIELD SIZING 1. <input type="checkbox"/> Small - 2.0 sq.ft./gpd 2. <input type="checkbox"/> Medium - 2.6 sq.ft./gpd 3. <input type="checkbox"/> Medium-Large - 3.3 sq.ft./gpd 4. <input type="checkbox"/> Large - 4.1 sq.ft./gpd 5. <input type="checkbox"/> Extra-Large - 5.0 sq.ft./gpd	PUMPING 1. <input type="checkbox"/> Not required 2. <input checked="" type="checkbox"/> May be required 3. <input type="checkbox"/> Required >> Specify only for engineered or experimental systems: DOSE: _____ Gallons	

SITE EVALUATOR STATEMENT

I certify that on 12/16/99 (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed system is in compliance with the Subsurface Wastewater Disposal Rules (10-144A CMR 241).

Albert Frick

Site Evaluator Signature

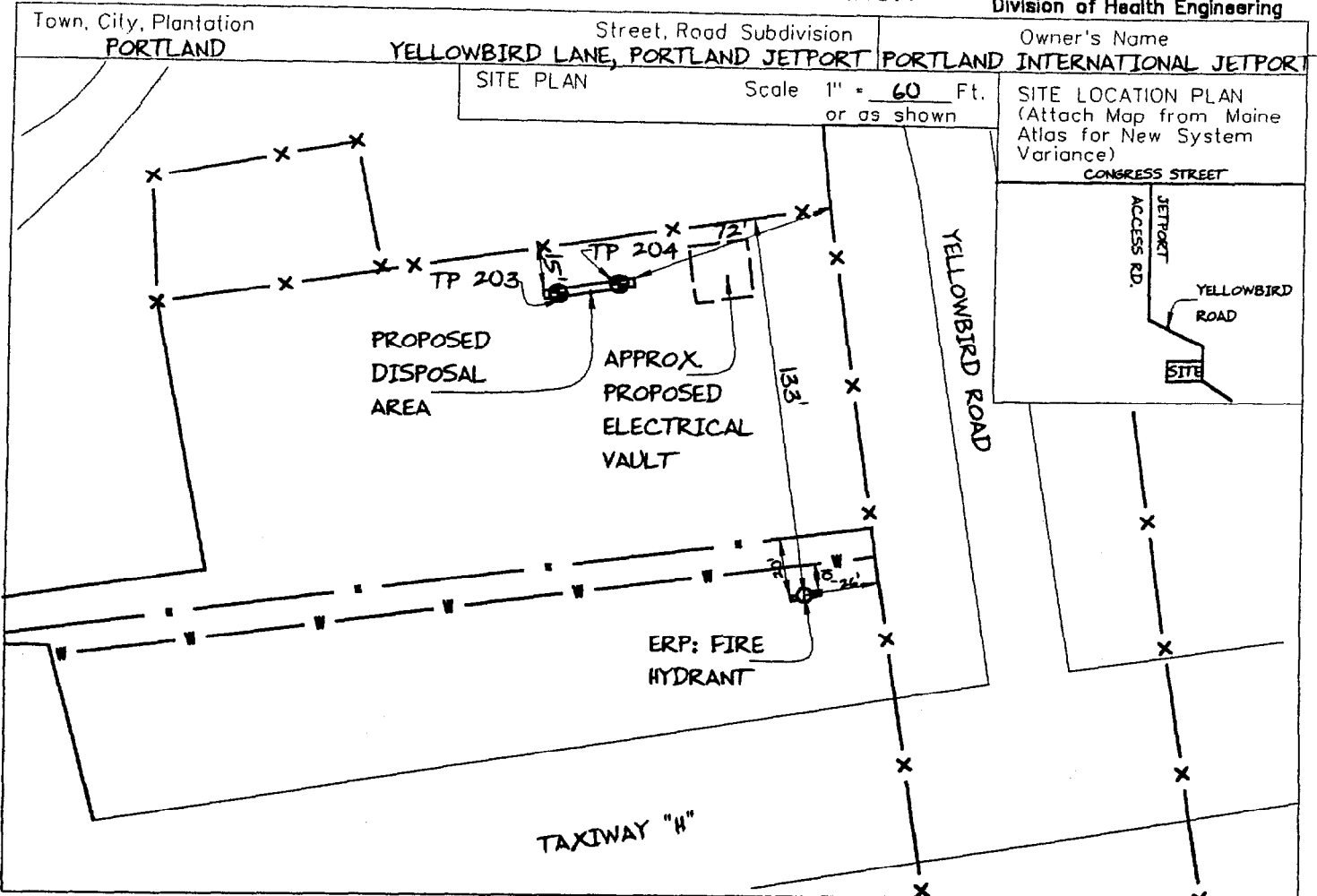
163
SE *

1/10/2000

Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering



SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole TP 203 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0	SILT		DARK	
	LOAM		BROWN	
	(FILL)			
10				
	LOAMY	FRIABLE	LIGHT	
20	SAND		OLIVE	FREE
	(FILL)		BROWN	WATER
				COMMON
30				
	SILTY	FIRM	OLIVE	DISTINCT
40	CLAY			
50				

Soil Classification: 12 Profile, C Condition
Slope: _____ %
Limiting Factor: 28 °
 Ground Water
 Restrictive Layer
 Bedrock
 Pit Depth

Observation Hole TP 204 Test Pit Boring
" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0	SILT		DARK	
	LOAM		BROWN	
	(FILL)			
10				
	LOAMY	FRIABLE	OLIVE	FEW
20	SAND		BROWN	FAINT
	(FILL)			
	SILTY	FIRM	OLIVE	COMMON
30	CLAY			DISTINCT
40				
50				

Soil Classification: 12 Profile, D Condition
Slope: _____ %
Limiting Factor: 12 °
 Ground Water
 Restrictive Layer
 Bedrock
 Pit Depth

Albert Frick
Site Evaluator Signature

163
SE

1/10/2000
Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

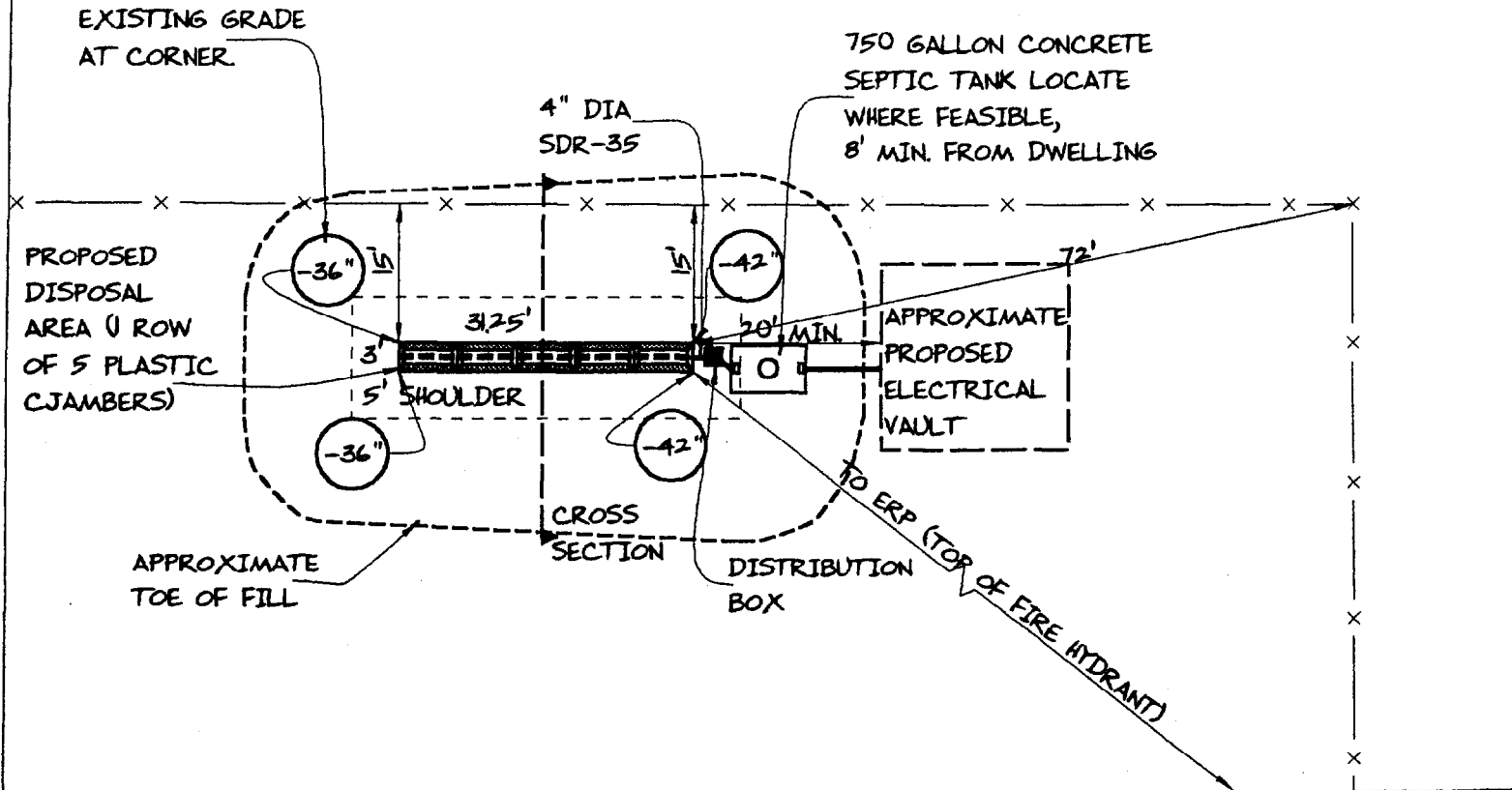
Town, City, Plantation
PORTLAND

Street, Road, Subdivision
YELLOWBIRD LANE, PORTLAND JETPORT

Owner's Name
PORTLAND INTERNATIONAL JETPORT

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20 FT.



FILL REQUIREMENTS

Depth of Fill (Upslope) ±34" - 40"
Depth of Fill (Downslope) ±34" - 40"

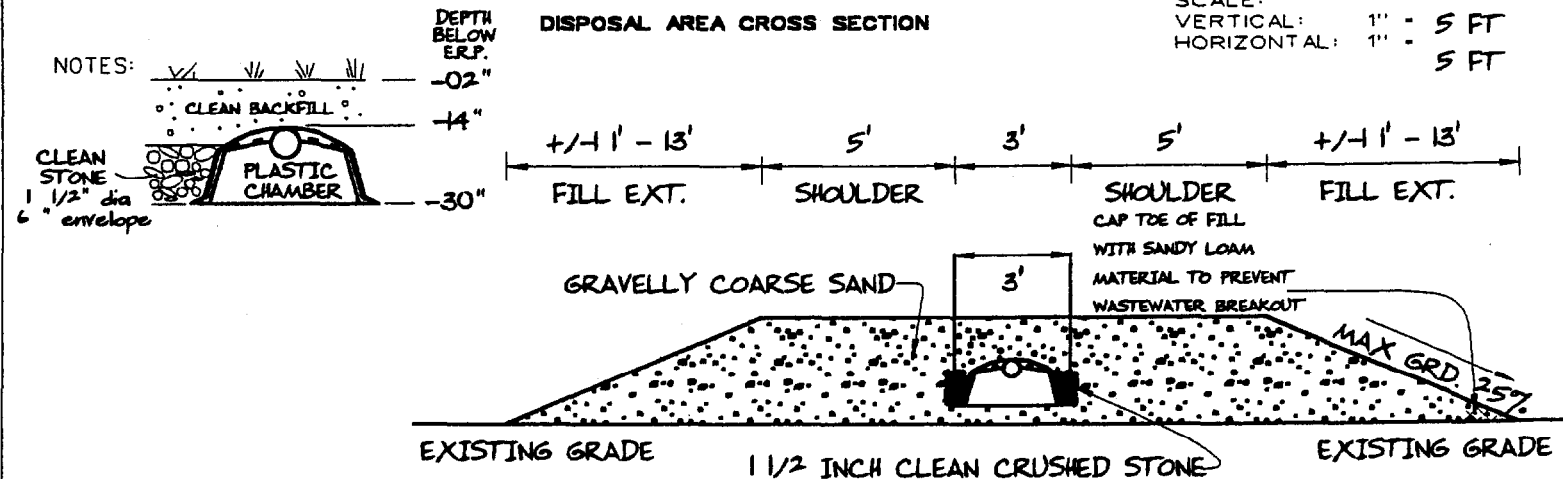
CONSTRUCTION ELEVATIONS

Finished Grade Elevation -02"
Top of Distribution Pipe or Proprietary Device -14"
Bottom of Disposal Area -30"

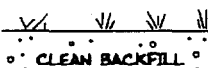
ELEVATION REFERENCE POINT

Location & Description
TOP OF FIRE HYDRANT
Reference Elevation 00"

SCALE:
VERTICAL: 1" = 5 FT
HORIZONTAL: 1" = 5 FT



NOTES:



CLEAN STONE
1 1/2" dia
6" envelope

PLASTIC CHAMBER

DEPTH BELOW E.R.P.
-02"
-14"
-30"

DISPOSAL AREA CROSS SECTION

+/- 1' - 13' 5' 3' 5' +/- 1' - 13'
FILL EXT. SHOULDER SHOULDER FILL EXT.

GRAVELLY COARSE SAND

SHOULDER
CAP TOE OF FILL
WITH SANDY LOAM
MATERIAL TO PREVENT
WASTEWATER BREAKOUT

EXISTING GRADE

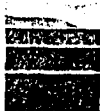
1 1/2 INCH CLEAN CRUSHED STONE

EXISTING GRADE

Albert Frick
Site Evaluator Signature

163
SE

1/10/2000
Date



Albert Frick Associates, Inc.

Soil Scientists & Site Evaluators
95A County Road Gorham, Maine 04038
(207) 839-5563

<u>PORTLAND</u>	<u>YELLOWBIRD LANE</u>	<u>PORTLAND JETPORT</u>
TOWN	LOCATION	APPLICANT'S NAME

1) The Plumbing and Subsurface Wastewater Disposal Rules adopted by the State of Maine, Department of Human Services pursuant to 22 M.R.S.A. § 42 (the "Rules") are incorporated herein by reference and made a part of this application and shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system installer should contact Albert Frick Associates, Inc. 839-5563, if there are any questions concerning materials, procedures or designs. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the Rules and with all state and municipal laws and ordinances pertaining to the permitting, inspection and construction of subsurface wastewater disposal systems.

2) This application is intended to represent facts pertinent to the Rules only. It shall be the responsibility of the owner/applicant, system installer and/or building contractor to determine compliance with and to obtain permits under all applicable local, state and/or federal laws and regulations (including, without limitation, Natural Resources Protection Act, wetland regulations, zoning ordinances, subdivision regulations, Site Location of Development Act and minimum lot size laws) before installing this system or considering the property on which the system is to be installed a "buildable" lot. It is recommended that a wetland scientist be consulted regarding wetland regulations.

Prior to the commencement of construction/installation, the local plumbing inspector shall inform the owner/applicant and Albert Frick Associates, Inc. of any local ordinances which are more restrictive than the Rules in order that the design may be amended. All designs are subject to review by local, state and/or federal authorities. Albert Frick Associates, Inc.'s liability shall be limited to revisions required by regulatory agencies pursuant to laws or regulations in effect at the time of preparation of this application.

3) All information shown on this application relating to property lines, well locations, subsurface structures and underground facilities (such as, utility lines, drains, septic systems, water lines, etc.) are based solely upon information provided by the owner/applicant and has been relied upon by Albert Frick Associates, Inc. in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information.

4) Installation of a garbage (grinder) disposal is not recommended. If one is installed, an additional 1000 gallon septic tank or a septic tank filter should be connected in series to the proposed septic tank.

5) The system user shall avoid introducing kitchen grease or fats into this system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment) and controlled or hazardous substances shall not be disposed of in this system.

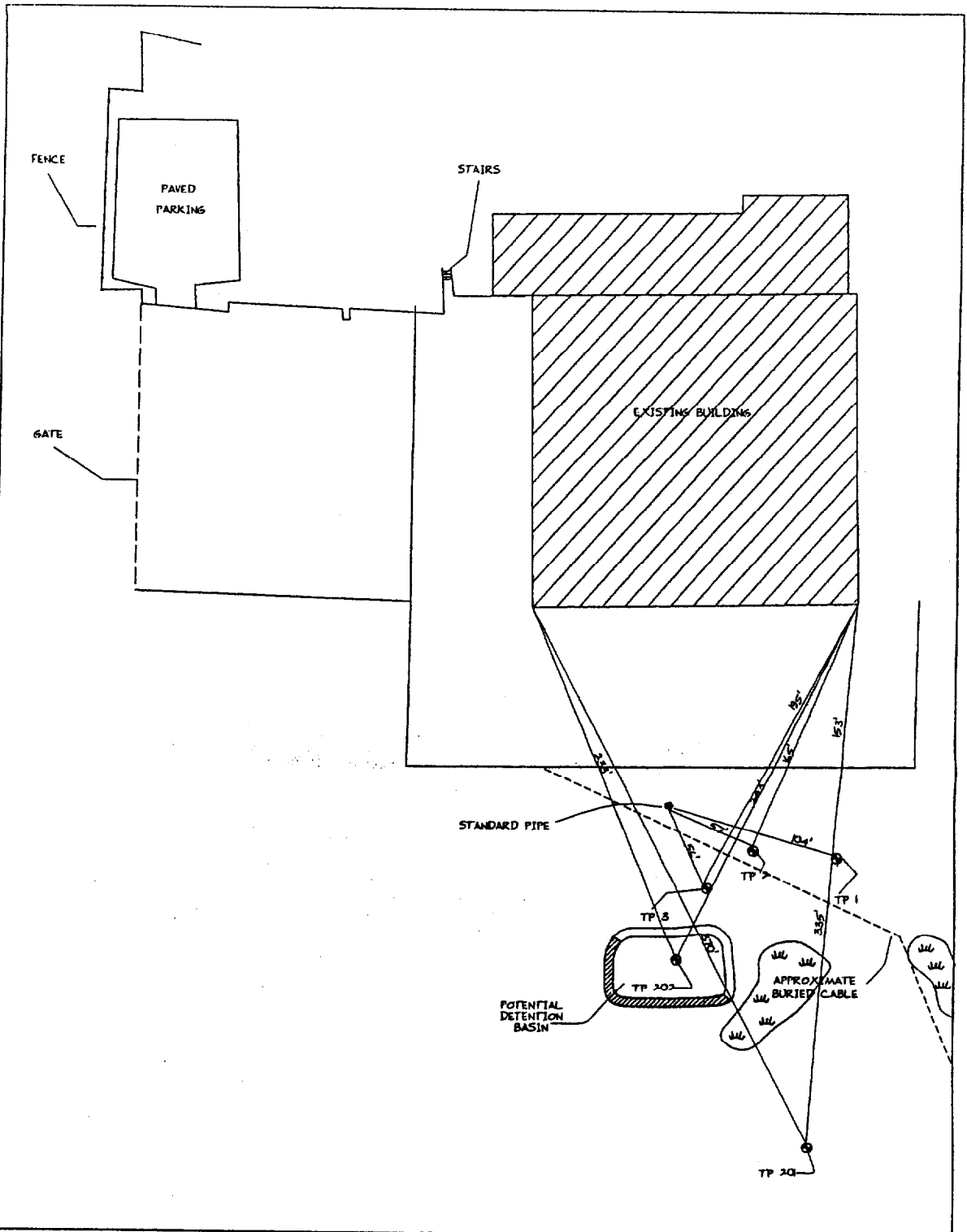
ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION


<u>PORTLAND</u>	<u>YELLOWBIRD LANE</u>	<u>PORTLAND JETPORT</u>
TOWN	LOCATION	APPLICANT'S NAME

- 6) The septic tank should be pumped within two years of installation and subsequently as recommended by the pump service, but in no event should the septic tank be pumped less often than once every three years.
- 7) The actual water flow or number of bedrooms shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed. If the system is supplied by public water or a private service with a water meter, the water consumption per period should be divided by the number of days to calculate the average daily water consumption (water usage (cu.ft.) x 7.48 cu.ft.(gallons per cu.ft.) ÷ # of days in period).
- 8) The general minimum setbacks between a well and septic system serving a single family residence is 100-300 feet, unless the local municipality has a more stringent requirement. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.
- 9) When a gravity system is proposed: **BEFORE CONSTRUCTION/INSTALLATION BEGINS**, the system installer or building contractor shall review the elevations of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum slope requirements. In gravity systems, the invert of the septic tank(s) outlet(s) shall be at least 4 inches above the invert of the distribution box outlet at the disposal area. When an effluent pump is required, provisions shall be made to make certain that surface ground water does not enter the septic tank or pump station. An alarm device warning of a pump failure shall be installed. Also, when pumping is required to a chamber system, install a "T" connection in the distribution box and place 3 inches of stone or a splash plate in the first chamber. Insulate gravity pipes, pump lines and the distribution box as necessary to prevent freezing.
- 10) On all systems, remove the vegetation, organic duff and old fill material from under the disposal area and any fill extension. On sites where the proposed system is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling to a depth of at least 8 inches over the entire disposal and fill extension area to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact thoroughly before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage). Do not use wheeled equipment on the scarified soil area until after 12 inches of fill is in place. Keep equipment off the chambers. Divert the surface water away from the disposal area by ditching or shallow swales.
- 11) Unless noted otherwise, fill shall be gravelly coarse sand which contains no more than 5% fines (silt and clay).
- 12) Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing may seal off the soil interface.
- 13) Seed all filled and disturbed surfaces with perennial grass seed, then mulch with hay or equivalent material to prevent erosion.



Albert Frick Associates, Inc.
Soil Scientists & Site Evaluators
25A County Road - Gorham, Maine 01038
(207) 830-5863



SITE PLAN PORTLAND JETPORT PORTLAND		 Albert Frick Associates, Inc. Soil Scientists & Site Evaluators Gorham, Maine 04038	
Date:	Revision Description	Drawn By: B.J.	Checked By: A.F.
		Date: 1/15/99	Scale: 1" = 40'

reduced 3670

All Purpose 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: 311 YELLOW BIRD ROAD		
Total Square Footage of Proposed Structure 3,200	Square Footage of Lot	
Tax Assessor's Chart, Block & Lot Chart# 199 Block# A Lot# 001	Owner: CITY OF PORTLAND	Telephone: 874-8654
Lessee/Buyer's Name (if Applicable)	Applicant name, address & telephone: LPM CONSTRUCTORS PO BOX B FREEPORT, ME 04032 (207) 865-0000	Cost Of Work: \$575,000.00 Fee: \$ 5,196.00
Current use: VACANT		
If the location is currently vacant, what was prior use: FIELD		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> DEPT. OF BUILDING INSPECTION CITY OF PORTLAND, ME <div style="border: 1px solid black; padding: 5px; display: inline-block; text-align: center;"> SEP 24 2003 </div> </div> <div style="font-size: 2em; font-weight: bold; letter-spacing: 0.5em; margin-top: 10px;"> R E C E I V E D </div>
Approximately how long has it been vacant: _____		
Proposed use: AIRFIELD LIGHTING VAULT Project description:		
Contractor's name, address & telephone: LPM CONSTRUCTORS PO BOX B FREEPORT, ME 04032 (207) 865-0000 a/24		
Who should we contact when the permit is ready: KIM SVHR		
Mailing address: _____		
We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up. PHONE: (207) 865-0000		

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.

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 of applicant:	Date: 9/24/2003
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This is NOT a permit, you may not commence ANY work until the permit is issued.
 If you are in a Historic District you may be subject to additional permitting and fees with the Planning Department on the 4th floor of City Hall



DeLUCA-HOFFMAN ASSOCIATES, INC.
CONSULTING ENGINEERS

778 MAIN STREET
SUITE 8
SOUTH PORTLAND, MAINE 04106
TEL. 207 775 1121
FAX 207 879 0896

- ROADWAY DESIGN
- ENVIRONMENTAL ENGINEERING
- TRAFFIC STUDIES AND MANAGEMENT
- PERMITTING
- AIRPORT ENGINEERING
- SITE PLANNING
- CONSTRUCTION ADMINISTRATION

June 11, 2003

Mr. Rick Knowland, Senior Planner
City of Portland
389 Congress Street
Portland, Maine 04101

**Subject: New Electrical Vault
Portland International Jetport**

Dear Rick:

Enclosed please find site and building plans for a new 35' x 80' electrical vault building at the Portland International Jetport. Highlights are as follows:

Building

The building will be located just west of the maintenance building inside the gated fence on the airfield side.

It will be a block building similar to the maintenance building. Plans are enclosed.

Utilities

The site will be served by public water. Dave Coffin of the Portland Water District has reviewed and approved the plans, including relocating the existing hydrant about 30 feet.

Sanitary and floor drain lines are connected to a small pump station which pumps to a leach bed designed by Al Frick and Associates.

Additionally, we have worked with Verizon and Central Maine Power and have designed concrete encased ducts for new lines in Yellowbird Road to serve this area of the airport.

Storm Drainage

There are minor amounts of impervious surface associated with the project. For the most part, the new pavement and roof drain to the existing Jetport drain system, which outlets to the Fore River. This system is tributary to a water quality unit behind the maintenance building.

If you have any questions or need more information, please contact me.

Very truly yours,

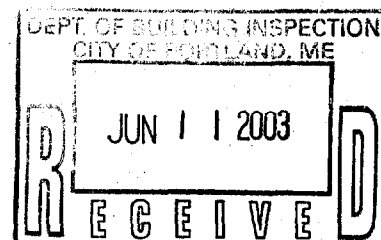
DeLUCA-HOFFMAN ASSOCIATES, INC.

Michael J. DeLuca, P.E.
Senior Vice President

MJD/sq/JN1916.02/Knowland6-11-03

Enclosures

c: Artie Sewall, Portland International Jetport





CITY OF PORTLAND, MAINE

Department of Building Inspections

6/11 2003

Received from DeLuca-Hoffman

Location of Work 311 Yellow Bird Rd.

Cost of Construction \$ _____

Permit Fee \$ 400.00

Building (1L) _____ Plumbing (1S) _____ Electrical (1E) _____ ^{MINOR} Site Plan (U2)

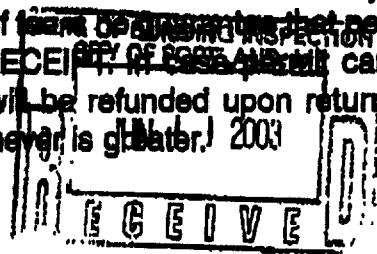
Other _____

CBL: 199 A-001

Check #: 7377 Total Collected \$ 400.00

THIS IS NOT A PERMIT

No work is to be started until PERMIT CARD is actually posted upon the premises. Acceptance of ~~fees~~ ^{fees} ~~does not guarantee~~ ^{does not guarantee} that permit will be granted. PRESERVE THIS RECEIPT. ~~If permit cannot be granted the amount of the fee will be refunded upon return of the receipt less \$10.00 or 10% whichever is greater.~~ ²⁰⁰³



WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy



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 AIRPORT

Address of Construction: JOHNSON ROAD, PORTLAND, MAINE

THE BOCA NATIONAL BUILDING CODE/1999 FOURTH EDITION

Construction project was designed according to the building code criteria listed below:

Building Code and Year: BOCA/1999 Use Group Classification: S-2

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

Seismic Zone: A_s = 0.12 Group Classification: 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

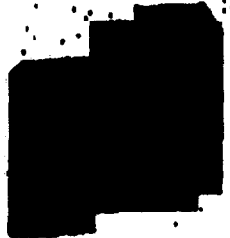
If raised use, what subsection of 313 is being considered _____

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

300 SF PER OCCUPANT

(Designers Stamp & Signature)
ROBERT S.T. LIE
No. 9442
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

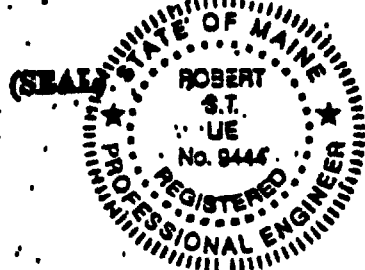
RE: Certificate of Design

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 [Handwritten Signature]

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

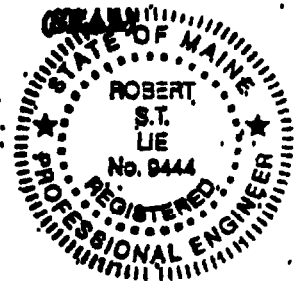
Address of Project: JOHNSON RD., PORTLAND, ME

Nature of Project: SINGLE STORY BUILDING TO HOUSE

AIRFIELD LIGHTING VAULT - PORTLAND JETPORT

Date: 9/23/03

The technical specifications 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*

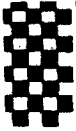
Title: PRINCIPAL

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

F:\99010 Portland ME Jetport\doc\GK\faxMD01.doc

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 even though 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: gkaradi@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) 566-8038
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

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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 checked="" type="checkbox"/> Perform in-situ compaction test.
4. Prepared Fill	GE, TL	<input checked="" type="checkbox"/> Evaluate site preparation prior to placement of fill <input checked="" type="checkbox"/> Evaluate placement and compaction of fill. <input checked="" type="checkbox"/> Determine in-place dry density and conformance with Contract

Schedule of Tests and Inspections

Airfield Lighting Vault
 Portland International Jetport
 Portland, Maine

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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

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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

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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

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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

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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

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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.