

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT: Phase I Parking Garage, Portland International Jetport, Portland, ME

MATERIAL/ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT						
			Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT	DATE	REV.	
1705.5 MASONRY CONSTR	4.00								
Materials		Review materials certification							
		Masonry units	Y	Sample		R&A			
		Reinforcing steel	Y	Sample		R&A			
		Review grout materials & mix design	Y	Sample		R&A			
		Review mortar materials & mix design	Y	Sample		R&A			
		Review strength determination							
		Unit strength method	Y	Sample		R&A			
		Review unit strengths & grout, mortar mixes	Y	Sample		R&A			
		Prism strength method							
		Review pre-construction test results	N						
		Field tests during construction	N						
		Grout testing							
		Determine compressive strength	Y	Field Samples		TL			
		Mortar testing							
		Field test compressive strength ASTM C780 (Req'd only if property reqs of ASTM C270 are used)	Y	ALL		TL			
	General Masonry Work		Review mortar mix proportions & mixing	Y	Sample	ACI 530.1;2.3.2.5	TL		
		Review general installation of mortar	Y	Sample	ACI 530.1;4.2.2	BSE			
		Review general installation of mortar grout, masonry units.	Y	Sample	ACI 530.1;2.3.3.3,4.3.3	BSE			
		Review installation of horiz., vert., & joint reinforcing (incl. Location, sizes, splices, & positioning devices)	Y	Sample	ACI 530, CH. 8	BSE			
		Review hot/cold weather procedures	Y	Sample	ACI 530; 1;2.3.2.2,2.3.2.3	BSE			
		Review installation of anchorage devices	Y	Sample	ACI 530; 4.2, 5.14	BSE			
		Review installation of lintels	Y	Sample		BSE			
		Review welding of reinf., grouting, consolidation and reconsolidation for seismic Cat. "C" buildings	N						

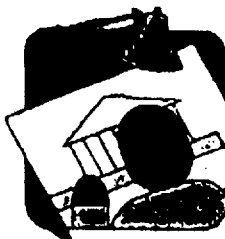
All Masonry Construction Special Inspections have been completed in accordance with BOCA Section 1705.5 Special Inspector _____ Date _____

SCHEDULE OF SPECIAL INSPECTION SERVICES

PROJECT: Phase I Parking Garage, Portland International Jetport, Portland, ME

MATERIAL/ACTIVITY	ITEM	SERVICE	APPLICABLE TO THIS PROJECT					
			Y/N	EXTENT (All, Sample, Other, None)	COMMENTS	AGENT	DATE	REV.
1705.7 PREPARED FILL	6.00							
Site Preparation		Review site preparation prior to prepared fill placement.	Y				TL	
During Fill Placement		Review compliance to soils report						
		Material	Y	Sample			TL	
		Lift thickness	Y	Sample			TL	
Evaluation of in-Place Density		Review in-place dry density for compliance with soils report	Y	Sample			TL	
Footing Preparation		Review subgrade prior to footing placement	Y	ALL	Building only		H&A	

All Prepared Fill Special Inspections have been completed in accordance with BOCA Section 1705.7 Special Inspector _____ Date _____



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: Domenech Hicks & Krockmalnic Architects
Boston, MA 02115 617-267-6408

DATE: 12-12-01

Job Name: Portland Jetport, Phase I Parking Garage, Contract 3

Address of Construction: PWM, 1001 Westbrook Street, Portland, ME 04102

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 1999 Use Group Classification(s) CRF:B/Garage:S-2

Type of Construction 2C/2A, 2C Bldg. Height see below* Bldg. Sq. Footage 546,937

Seismic Zone Aa=0.10/2; Av=Aa=0.1 Group Class II/I

Roof Snow Load Per Sq. Ft. Pg=60PSF/42 Dead Load Per Sq. Ft. 80PSF/95

Basic Wind Speed (mph) 85/85 Effective Velocity Pressure Per Sq. Ft. 39PSF/18.5-BASIC

Floor Live Load Per Sq. Ft. 100PSF/ 50PSF or 2000# CONCENTRATED

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.

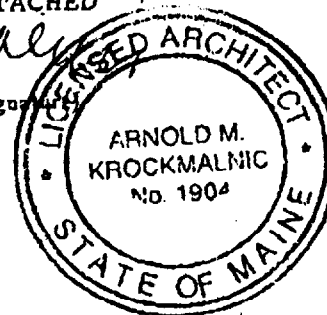
Is structure being considered unlimited area building: Yes No

If mixed use, what subsection of 311 is being considered 313.1.2

List Occupant loading for each room or space, designed into this Project: SEE ATTACHED

* 52'-±/63'-2" (garage); 92'-5" (tower)
(Designer's Stamp & Signature)

PSH 6/07/2K



OCCUPANT CAPACITY	
PORTLAND INTERNATIONAL JETPORT PHASE I PARKING GARAGE	
LEVEL	OCCUPANTS
LOWER LEV. GARAGE	420
CAR RENTAL FACILITY	52
GROUND LEV. GARAGE	399
SECOND LEV. GARAGE	399
THIRD LEV. GARAGE	399
FOURTH LEV. GARAGE	399
FIFTH LEV. GARAGE	399
TOTALS	2,349

City of Portland, Maine - Building or Use Permit Application
 389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 01-1490	Issue Date:	CBL: 204 A001001
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Location of Construction: 1001 Westbrook St	Owner Name: Northeast Airmotive Inc	Owner Address: 987 Westbrook St	Phone:
Business Name: n/a	Contractor Name: Cimino Construction Co.	Contractor Address: 125 Pleasant Hill Rd. Scarborough	Phone: 2078835138
Lessee/Buyer's Name: n/a	Phone: n/a	Permit Type: Additions - Commercial	Zone:

Past Use: Commercial / Parking Lot	Proposed Use: Commercial/ Parking Lot; Construct a six level parking structure, includes a car rental facility, pedestrian ramp, & combined elevator stair tower.	Permit Fee:	Cost of Work: \$24,479,784.10	CEO District: 3
Proposed Project Description: Construct six level parking lot.		FIRE DEPT: <input type="checkbox"/> Approved <input type="checkbox"/> Denied	INSPECTION: Use Group: Type:	
		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: gg	Date Applied For: 12/06/2001	Zoning Approval		
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1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. 2. Building permits do not include plumbing, septic or electrical work. 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..	Special Zone or Reviews <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:	Zoning Appeal <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:	Historic Preservation <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



BUILDING PERMIT APPLICATION

Portland Jetport Parking Garage Contract 3

Project Description Cover Letter

The attached building permit application is provided for the construction of the Phase 1 Parking Garage at the Portland International Jetport. The following is a brief description of the project:

This project entails construction of a parking garage and related appurtenances at the Portland International Jetport in Portland Maine. The parking garage is a 246' x 365' steel-framed structure comprised of 6 levels for vehicle parking. The basement level will be slab on grade construction with reinforced concrete walls. The remaining levels will be comprised of a precast double tee floor with architectural cladding on the perimeter. The structure will accommodate parking for 1400 vehicles.

To accommodate access into the parking structure, a 15' x 26' stair tower will be constructed on the west side of the garage and a combination stair/elevator tower will be constructed on the east side. Vehicular access will be from the existing loop road at 4 locations, 2 at the basement level and 2 at the ground floor level. Access to the individual floors will be via a double helix ramp structure located on the north side of the garage.

DEC 26 2001

OCCUPANT CAPACITY

PORTLAND INTERNATIONAL JETPORT
PHASE I PARKING GARAGE

LEVEL	OCCUPANTS
LOWER LEV. GARAGE	420
CAR RENTAL FACILITY	52
GROUND LEV. GARAGE	399
SECOND LEV. GARAGE	399
THIRD LEV. GARAGE	399
FOURTH LEV. GARAGE	399
FIFTH LEV. GARAGE	399
TOTALS	2,349

DEC 26 2009



City of Portland, Maine

389 Congress St., Rm 315
Portland, ME 04101

ACCESSIBILITY CERTIFICATE

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

FROM: Domenech Hicks & Krockmalnic, Architects

RE: Certificate of Design, HANDICAP ACCESSIBILITY

DATE: December 12, 2001

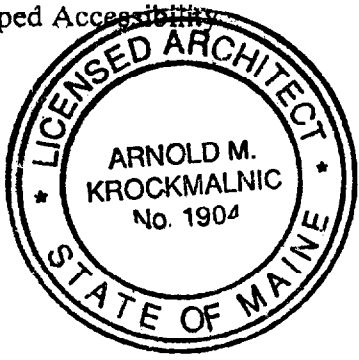
These plans and/or specifications covering construction work on:

Portland Jetport, Phase I Parking Garage, Contract 3

PWM, 1001 Westbrook St., Portland, ME 04102

Have been designed and drawn up by the undersigned, a Maine registered engineer/architect according to State Regulations as adopted by the State of Maine on Handicapped Accessibility.

(SEAL)



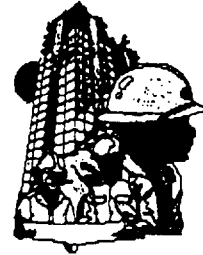
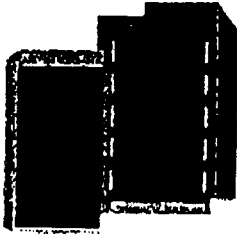
Signature *Arnold M. Krockmalnic*

Title Principal

Firm Domenech Hicks & Krockmalnic, Architects

Address 155 Massachusetts Ave.
Boston, MA 02115

DEC 26 2001



**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: Domenech Hicks & Krockmalnic, Architects

RE: Certificate of Design

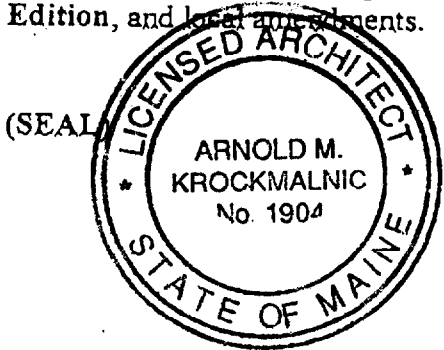
DATE: December 12, 2001

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Portland Jetport, Phase I Parking Garage, Contract 3

PWM, 1001 Westbrook St., Portland, ME 04102

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 *Arnold M. Krockmalnic*

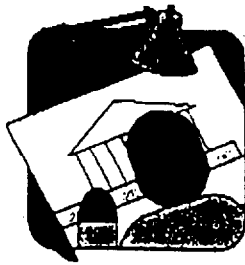
Title Principal

Firm Domenech Hicks & Krockmalnic, Architects

Address 155 Massachusetts Ave.
Boston, MA 02115

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 Professional.



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: Domenech Hicks & Krockmalnic Architects

Boston, MA 02115

617-267-6408

DATE: 12-12-01

Job Name: Portland Jetport, Phase I Parking Garage, Contract 3

Address of Construction: PWM, 1001 Westbrook Street, Portland, ME 04102

THE BOCA NATIONAL BUILDING CODE/1999 Fourteenth EDITION

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Floor Live Load Per Sq. Ft. 100PSF/ 50PSF or 2000# CONCENTRATED

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

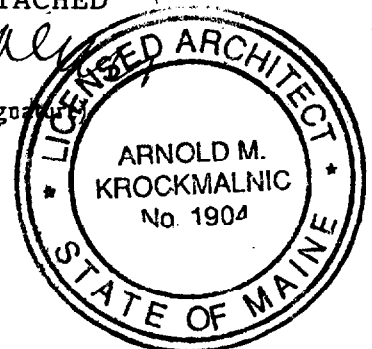
Is structure being considered unlimited area building: Yes X No _____

If mixed use, what subsection of 313 is being considered 313.1.2

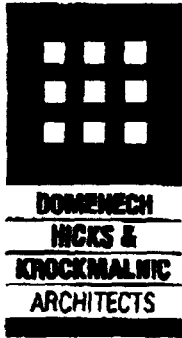
List Occupant loading for each room or space, designed into this Project. SEE ATTACHED

* 52'±/63'-2" (garage); 92'-5" (tower)
(Designers Stamp & Signature)

PSH 6/07/2K



DEC 26 2001



MINUTES OF MEETING

Date: 11/30/00
Project: PWM Phase I Parking Garage and Consolidated Car Rental Facility (CCRF)
Place: Portland City Hall, Portland, ME
Participants: Sam Hoffses, Inspector of Building, (SH)
Lt. Gaylen McDougall, Fire Prevention Officer, (LM)
Mickey Krockmalnic, Domenech Hicks & Krockmalnic (DHK) (MK)
Andrea Clemon, DHK (ARC)

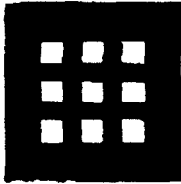
The following notes summarize the items discussed at this meeting.

- DHK presented a 2-hour fire-rated glass to provide vision panels through the 2-hour fire-rated wall. LM would like to see the UL design number for the 2-hour fire-rated glass. SH confirmed that the 2-hour glass assembly will suffice to qualify the 2-hour fire separation assembly as having 0% openings. This is in accordance with BOCA '99, Table 705.3.
- The Parking Garage columns, continuing from the underground garage, through the 2-hour floor assembly, up to the open parking garage, is acceptable to the city as long as the column is fully enclosed with firestopping in the floor opening.
- The roof structure of the CCRF is not supposed to sit on a "fire wall". Such a structure may bear on a "fire wall" provided it is constructed with fire cuts, therefore allowing the structures to fall out of the wall if they fail.
- The Elevator hoistway has been designed to have a 2-hour fire separation from all components of the building, curtain walls to exterior spaces only. This elevator hoistway design, being not considered through a floor, and outside the building proper, is considered acceptable.
- DHK was told to research whether or not the sloping glass surface of the CCRF would be considered a skylight, and to adhere to the appropriate code sections for skylights if it is one.

The architect assumes that this memorandum represents a fair transcript of the subject meeting and will enter it into project records unless notified of changes or additions by a participant.

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155 Massachusetts Avenue
Boston, MA 02115
617/267-5408
617/267-1990 fax



**DOMENECH
HICKS &
KROCKMALNIC
ARCHITECTS**

TRANSMITTAL

▼ **To:** Lt. Gaylen W. McDougall
Fire Prevention Officer
380 Congress Street
Portland, ME 04101

Date: December 13, 2000 **Job No.** 2003
Attention:
Re: Separated Use Groups
Portland International Jetport
Phase I Parking Garage and Consolidated
Car Rental Facility

- ▼ **We are sending you** Attached Under separate cover via USPS the following items:
- Shop drawings Prints BOND Originals Samples Specifications
 Copy of Letter Change Order CD

Copies	Date	No.	Description
1	12/12/00	1	Memo regarding Fire Separation Assemblies
1	12/12/00	1	Code research regarding Fire Separation Assemblies
1	11/30/00	1	Meeting Minutes
1	10/30/00	1	Meeting Minutes

▼ **These are transmitted as checked below:**

- For approval As requested
 For your use For review and comment

▼ **We have taken the following action on the subject material:**

- No exceptions taken Rejected
 Note markings Comments Attached

▼ **The following action by you is required:**

- Confirm Resubmit copies

▼ **Remarks:**

Sam Hoffses informed us that the new approach to the building as Separated Use Groups, and the issues therein, are appropriate. We will proceed with the design as such. Let us know if you have something further to add. Thank you.

▼ **Copy To:** Paul Bradbury, Portland International Jetport

Signed: Andrea Clemon

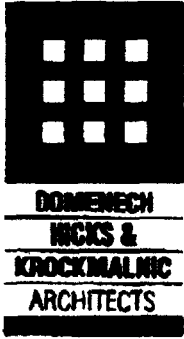
155 Massachusetts Avenue • Boston, Massachusetts 02116
Voice: 617-267-6408 • Fax: 617-267-1990 • www.dhkn.com

If enclosures are not as noted, kindly notify us at once

Definitions:**Fire area:** See Section 702.0**Fire separation assembly:** See Section 702.0**Protection construction:** See Section 702.0**Section 702.0 Definitions:*****Fire Area:*** The aggregate floor area enclosed and bounded by *fire walls*, exterior walls or *fire separation assemblies* of a building (see Section 709.2).

Section 709.2 Fire area: A *fire separation assembly* which separates adjacent *fire areas* shall have a fire resistance rating of not less than the fire resistance rating required by Table 313.1.2 based on the use group of the *fire areas* which are separated.

Fire Separation Assembly: A horizontal or vertical fire resistance rated assembly of materials having protected openings, and designed to restrict the spread of fire (see Section 709.0).***Protected construction:*** That in which all structural members are constructed, chemically treated, covered or protected so that the individual unit or the combined assemblage of all such units has the required fire resistance rating specified for its particular application in Table 602; and includes protected combustible and protected noncombustible construction.



MEMO

Date: 12/12/00
To: Sam Hoffses, Inspector of Building, Portland, ME
Lt. Gaylen McDougall, Fire Prevention Officer, Portland, ME


Gentlemen,

We have met with the project engineers to discuss the implementation of code requirements we had discussed with you at our last meeting.

Our initial approach was that of considering this project three separate buildings. In going over the relationship between the truss structure and the fire rated wall, we learned that the two are dependent upon each other for structural stability. Additionally, the fire separation between the lowest level of the garage and those above it presents an additional level of difficulty when categorized as a "fire wall".

Consequently, we further researched the code, and found that our project is better categorized as Separated Use Groups, per section 313.1.2. Attached please find a document representing the requirements for a project to be considered Separate Use Groups and the fire protection requirements therein. These requirements do not include protection on the exterior steel roof trusses per sections 709.5 and 715.0. Please review and confirm.

Thank you,


Andrea Clemon

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155 Massachusetts Avenue
Boston, MA 02115
617/267-6408
617/267-1990 fax

Portland International Jetport
Portland, Maine
The BOCA National Building Code / 1999

The Consolidated Car Rental Facility (CCRF) will be classified as Use Group B, per Table 304.2 Business Occupancies, under Professional Services.

The Parking Garage is classified as Use Group S-2, under Public Garages (Group 2). The Parking Garage Structure will be further divided into two building construction types. Construction Type 2A will make up the first floor, Underground Parking Structure; Construction Type 2C will make up the Open Parking Structure above, as defined Section 406.0 Open Parking Structures.

Section 313.1.2 Separated use groups: Each portion of the building shall be individually classified in a use group and shall be completely separated from adjacent fire areas by fire separation assemblies (see section 709.0) and floor/ceiling assemblies (see Section 713.0) having a fire resistance rating determined in accordance with Table 313.1.2, for the use groups being separated. Each fire area shall comply with the code based on the use group of that space. Each fire area shall comply with the height limitations of Section 503.0 based on the use of that space and the type of construction classification. In each story, the building area shall be such that the sum of the ratios of the floor area of each use group divided by the allowable area from Section 503.0 for each use group shall not exceed one.

Exception: N/A

Table 313.1.2 FIRERESISTANCE RATING REQUIREMENTS FOR FIRE SEPARATION ASSEMBLIES BETWEEN FIRE AREAS

Use Group S-2 and B: 2 hours.

Table 503 HEIGHT AND AREA LIMITATIONS OF BUILDINGS

Use Group B, Business, Type 2C (Noncombustible, Type 2, Unprotected):

Height limitation: 3 Stories 40'

Area limitation: 14,400 square feet

Note a. for exceptions see sections . . .

504.2 Automatic sprinkler systems: Where a building is equipped throughout with an automatic sprinkler system in accordance with Section 906.2.1, the building height limitation specified in Table 503 shall be increased one story and 20 feet.

504.2 Automatic sprinkler systems: Where a building is equipped throughout with an automatic sprinkler system in accordance with Section 906.2.1, the building area limitation specified in Table 503 shall be increased 200 percent for one- and two-story buildings and 100 percent for buildings more than two stories in height.

[Therefore: Allowable Height: 4 Stories, 60'
Allowable Area: 28,800 square feet.] -DHK

Table 705.2 EXTERIOR WALL FIRERESISTANCE RATING:

Use Group B

Fire separation distance:

0 to 5'	2 hours
Greater than 5 to 10	1 hour
Greater than 10 to 15	0 hours
Greater than 15 to 30	0 hours
Greater than 30	0 hours

Section 715.0 Roof Construction

715.1 General: Roofs shall be constructed of materials or assemblies of materials designed to afford the fire resistance rating required by Table 602 as herein modified.

715.3 Roofs of 20 feet or higher: Where every part of the structural framework of roofs in buildings of Type 1 or Type 2 construction is 20 feet or more above the floor immediately below, omission of all fire protection of the structural members is permitted, including the protection of trusses, roof framing and decking.

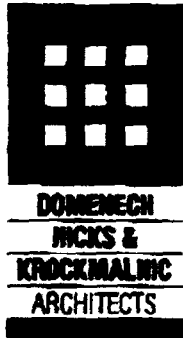
715.4 Roof slabs, arches and decking: Where the omission of fire protection from roof trusses, roof framing and decking is permitted, roofs in buildings of Types 1 and 2 construction shall be constructed of noncombustible materials, or of fire retardant-treated wood as permitted in Table 602, without a specified fire resistance rating, or of Type 4 construction in buildings not over five stories or 65 feet in height.

Minutes of meeting
04/06/00
page 2 of 2

Respectfully submitted,

Domenech Hicks & Krockmalnic, Inc. Architects

Andrea Clemon



MINUTES OF MEETING

Date: 10/30/00
Project: PWM Phase I Parking Garage and Consolidated Car Rental Facility (CCRF)
Place: Portland City Hall, Portland, ME
Participants: Sam Hoffses, Inspector of Building, (SH)
Lt. Gaylen McDougall, Fire Prevention Officer, (LM)
Mickey Krockmalnic, Domenech Hicks & Krockmalnic (DHK) (MK)
Andrea Clemon, DHK (ARC)

The following notes summarize the items discussed at this meeting.

General:

- The State Fire Marshall has the final word on all Life Safety issues.
- SH confirmed that the open, light wells, designed for Phase III of the garage, are allowable for ventilation purposes per 406.4.1, thereby permitting an unlimited garage area.
- Mechanical Engineer must design per code to accommodate fumes in the underground parking level.

Elevators:

- The elevator can be designed as hoistways, without shafts, provided the space is fully sprinklered.
- Example: One City Center
- The appropriate State Elevator officials can be contacted, to acquire all mechanical requirements of elevators, at the Business Bureau, State of Maine Tramway. Professional Regulations at (207) 624-8500.

Stairways:

- A 2-hour fire-rated separated stairway is required, and must have a 2-hour fire-rated, 10'-0" horizontal and vertical area beyond all such stairways.
- Garage users for non-emergency travel, provided the emergency exit is clearly denoted, can use the primary egress stairway, in the CCRF.
- The stair can exit into the CCRF lobby as well as to an emergency exit to the exterior of the building.

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155 Massachusetts Avenue
Boston, MA 02115
617/267-6406
617/267-1990 fax

Table 602 FIRERESISTANCE RATINGS OF STRUCTURE ELEMENTS:

Noncombustible, Type 2, Unprotected, 2C

1. Exterior walls, Loadbearing:	0 hours (per section 705.2)
1. Exterior walls, Nonloadbearing:	0 hours (per section 705.2)
2. Fire walls and party walls:	2 hours
3. Fire separation assemblies:	
-fire enclosure of exits:	2 hours
-shafts and elevator hoistways:	2 hours
-mixed use and fire sep. areas:	2 hours (per table 313.1.2)
-other sep. assemblies:	1 hour
4. Fire partitions:	
-Exit access corridors:	
Use group S, without sprinkler system:	1 hour
-Tenant spaces separations:	1 hour
6. Smoke barriers:	1 hour
7. Other nonloadbearing partitions:	0 hours
8. Interior loadbearing walls, loadbearing partitions, columns, girders, trusses (other than roof trusses) and framing:	
-supporting more than one floor:	0 hours
-supporting one floor only or roof only:	0 hours
9. Structural members supporting wall:	0 hours
10. Floor construction including beams:	0 hours
11. Roof construction, including beams, trusses, and framing, arches and roof deck (Section 715.0):	
(all descriptions)	0 hours

Section 709.0 FIRE SEPARATION ASSEMBLIES

709.1 General: *Fire separation assemblies* installed for purposes of the enclosure of *exits*, floor openings, *shafts*, areas of refuge and for subdividing purposes shall be constructed of approved materials consistent with the limitations for the building type of construction and shall have not less than the fire resistance rating prescribed by Table 602.

709.5 Exterior walls: Except as provided for in Sections 1014.11.1 and 1014.12.2, where exterior walls serve as part of a required fire resistance rated enclosure, such walls shall comply with the requirements of Section 705.0 for exterior walls and the fire resistance rated enclosure requirements shall not apply.

705.1 General: All exterior walls shall comply with the applicable provisions of this code and with the fire resistance rating requirements of this section and Section 602.0.

705.2 Fire resistance ratings: The fire resistance rating of exterior walls shall comply with Table 705.2, except as otherwise provided for in Section 705.1. Loadbearing exterior walls shall also comply with the fire resistance rating requirements of Section 602.0. The fire resistance rating of exterior walls with a *fire separation distance* of greater than 5 feet shall be rated for exposure to fire from the inside. The fire resistance rating of exterior walls with a *fire separation distance* of 5 feet or less shall be rated for exposure to fire from both sides.

Minutes of meeting
04/08/00
page 2 of 2

Separation.

- Per BOCA, Table 705.3, there can be 0% wall openings in the 2-hour fire-rated separation wall.
- SH suggested considering the CCRF and the open parking structure one building type, to eliminate need for 2-hour fire separation between the two structures. This is not feasible due to the necessity to sprinkle the entire parking garage if we do this.
- The open parking garage will still be considered 50% open at the separation wall provided the air can travel out between the two structures.

Accessibility:

- The city does not handle issues of accessibility. It is handled by the state. BOCA is not to be followed; the code of reference should be Maine Human Rights Commission.

Fire Prevention requirements:

- On the 1st floor (CCRL), Carbon Monoxide detectors must be present.
- Standpipes are required for the Open Parking Garage above.
- "Size of joints are a problem" (LM) This statement pertains to fire safety. Seismic joints must be addressed.

DHK assumes that this memorandum represents a fair transcript of the subject meeting and will enter it into project records unless notified of changes or additions by a participant.

Respectfully submitted,

Domenech Hicks & Krockmalnic, Inc. Architects

Andrea Clemon

facsimile transmittal

To: Alan Bilka From: Mike Nugent
Fax: 708-799-0310 Date: January 16, 2002
Phone: 708-799-2300 Pages: 3
Re: 1999 BOCA guard req. CC:

Urgent For Review Please Comment Please Reply Please Recycle

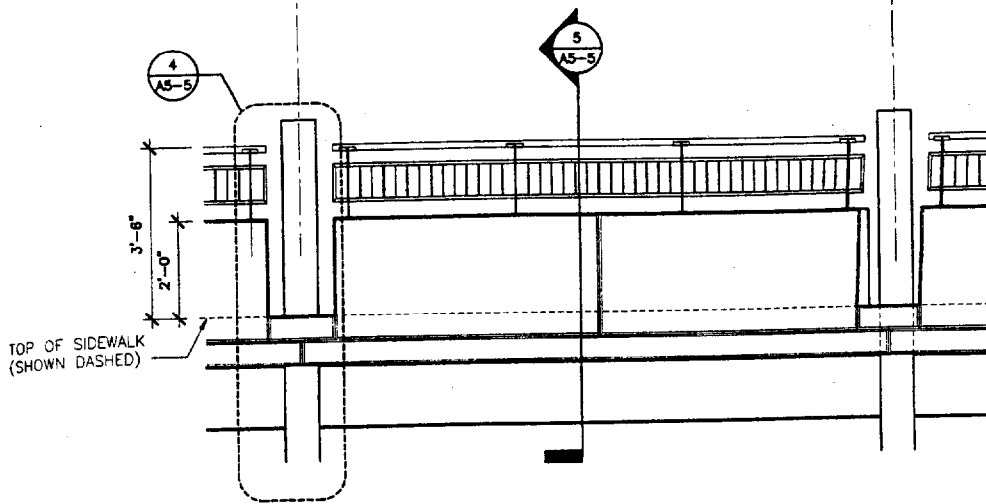
Notes: Alan,

Please take a look at this guard for a 5 story open parking structure, is there a ladder issue in your opinion?

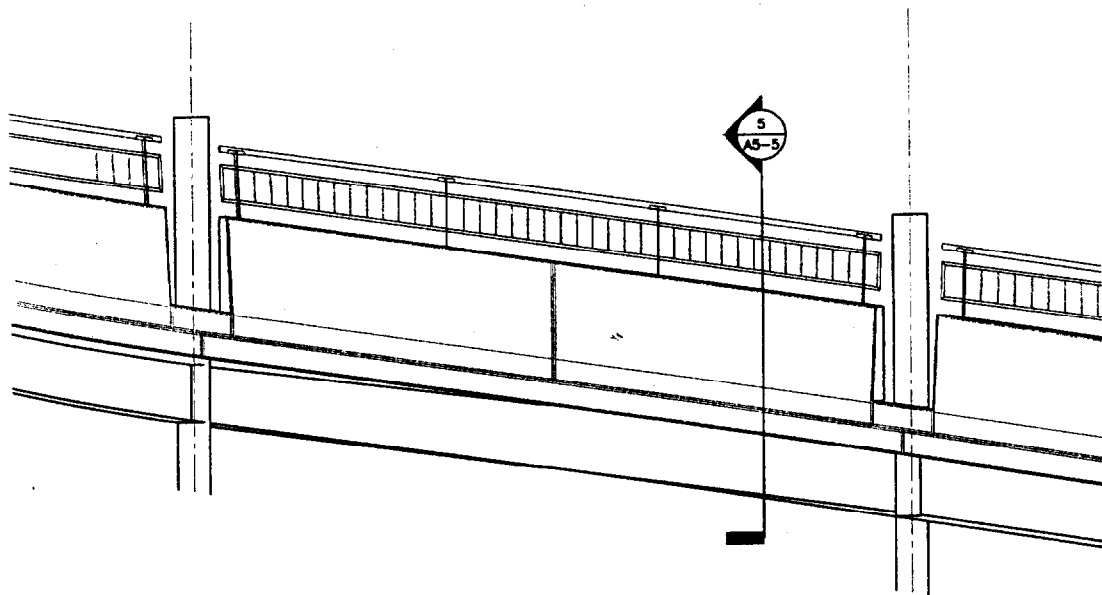
1/16/02
BOCA ADVISES THAT
GUARDS MEET THE
INTENT OF THE CODE
(Signature)

ATTENTION:

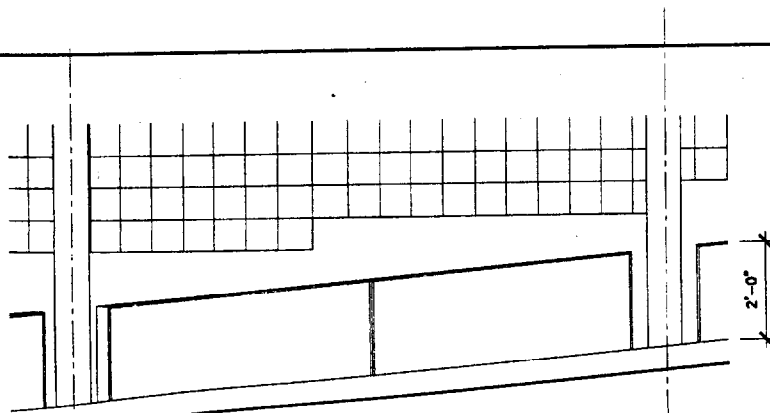
708 7990310
ALAN BILKA



1 ELEVATION @ GUARD RAIL
1/2"=1'-0"



2 ELEVATION @ GUARD RAIL ON THE RAMP
1/2"=1'-0"



NOTES: N.R. — Not required
N.A. — Not applicable

ADMINISTRATION (Chapter 1)

_____ Complete construction documents
(107.5, 107.6, 107.7)

_____ Signed/sealed construction documents
(107.7, 114.1)

BUILDING PLANNING (Chapters 3, 4, 5, 6)

USE OR OCCUPANCY CLASSIFICATION (302.0-313.0)

<u>SVB</u>	Single Use Group	_____	Specific occupancy areas (302.1.1)
	Mixed Use Groups	_____	Accessory areas (302.1.2)

GENERAL BUILDING LIMITATIONS (Chapters 5 & 6)

Apply Case 1 to determine the allowable height and area and permitted types of construction for a building containing a single use group or nonseparated mixed use groups. Apply Case 2 to determine the allowable height and area and permitted types of construction for a building containing separated mixed use groups.

AREA MODIFICATIONS TO TABLE 503

- UNLIMITED AREA PURSUANT TO HOC. 4.1

% of Allowable tabular area (Table 503)	<u>100%</u>
% Reduction for height (Table 506.4)	- _____ %
% Increase for open perimeter (506.2)	+ _____ %
% Increase for automatic sprinklers (506.3)	+ _____ %
Total percentage factor	= _____ %
Conversion factor	_____ % (Total percentage factor/100%)

Open perimeter (506.2)	_____ North	_____ East	_____ South	_____ West
Open perim. _____ ft.	Perimeter _____ ft.			
% Open perimeter = $\frac{\text{Open perim.}}{\text{perim.}} \times 100\%$				
% Tab. area increase = $2 \times (\% \text{ Open perim.} - 25\%)$ (506.2)				

CASE 1 — SINGLE USE OR NONSEPARATED MIXED USE GROUPS (313.1.1, 503.0)

Using Table 503, identify the allowable height and area of the single use group or the most restrictive of the nonseparated mixed use groups. Construction types that provide an allowable tabular area equal to or greater than the adjusted floor area and allowable heights (as modified by Section 504.0) equal to or greater than the actual building height are permitted.

Actual floor area <u>UNLIMITED</u> ft. ²	Actual building height	(S) <u>55</u> feet	<u>6</u> stories
Adjusted floor area* <u>UNLIMITED</u> ft. ²	Allowable building height	<u>85</u> feet	<u>8</u> stories

*Adjusted floor area = actual floor area/conversion factor

Permitted types of construction 2C Type of construction assumed for review (602.3) SVB

ATRIUMS

- Automatic sprinkler system (404.2)
- Occupancy (404.3)
- Smoke control (404.4)
- Enclosure (404.5)
- Fire alarm system (404.6)
- Travel distance (404.7)

OTHER SPECIAL USE AND OCCUPANCY

- Underground structures (405.0)
- Open parking structures (406.0)

- Private garages (407.0)
- Public garages (408.0)
- Use Group I-2 (409.0)
- Use Group I-3 (410.0)
- Stages and platforms (412.0)
- Special amusement buildings (413.0)
- HPM facilities (416.0)
- Hazardous materials (307.8, 417.0)
- Use Groups H-1, H-2, H-3 and H-4 (418.0)
- Swimming pools (421.0)

FIRE PROTECTION (Chapters 6, 7, 8, 9)

FIRERESISTANT MATERIALS AND CONSTRUCTION (Chapter 7 and Table 602)

Note: Entry in indicates required rating in hours. NC indicates noncombustible construction required.

COMBUSTIBILITY (603.0, 604.0, 605.0, 606.0)

- Exterior walls
- Interior elements
- Roof

CONSTRUCTION DOCUMENTS (703.0)

- Fire tests (704.0)

EXTERIOR WALLS (507.2, 705.0, 716.5)

	North	East	South	West
Fire separation distance	30+	30+	10	30+
Loadbearing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nonloadbearing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- N/A Exterior opening protectives (705.3, 706.0)
- N/A Parapet walls (705.6)

FIRE SEPARATION ASSEMBLIES

- 2 HR Exit enclosures (709.0, 710.0, 1014.11)
- 2 HR Other shafts (709.0, 710.0)
- 2 HR Mixed use and fire area separations (313.1.2)
- 1 HR Other separation assemblies (302.1.1, Table 602)

FIRE PARTITIONS

- 1 HR Exit access corridors (711.0, 1011.4)
- 1 HR Tenant separations (711.0)
- N/A Dwelling unit separations (711.0)
- N/A Guestroom separations (711.0)

OTHER FIRERESISTANT CONSTRUCTION

- 2 HR Fire and party walls (707.0 and Table 707.1)
- 1 HR Smoke barriers (712.0)
- 0 Nonloadbearing partitions (Table 602)
- 0 Interior loadbearing walls, columns, girders, trusses (716.0)
- 0 Supporting construction (716.0)
- 0 Floor construction (713.0, 1006.3.1)
- 0 Roof construction (713.0, 715.0)

- NONE Penetrations (714.0)
- NONE Opening protectives (717.0, 719.0, 720.0)
- REQUIRED ON PAGE M 2-1 Fire dampers (718.0)
- N/A Fireblocking/draftstopping (721.0)
- N/A Thermal and sound-insulating materials (723.0)

STANDPIPE SYSTEMS

- Building height (915.2.1)
- Building area (915.2.2)
- Malls (915.2.3)
- Stages (915.2.4)
- Approved system (915.3, 915.3.1)
- Piping design (915.4)
- Water supply (915.5)
- Control valves (915.6)
- Hose connection (915.7)

FIRE DEPARTMENT CONNECTIONS

- Required (916.1)
- Connections (916.2)

YARD HYDRANTS

- Fire hydrants (917.1)

FIRE ALARM SYSTEMS

- Approval (918.3)
- Assembly (A-4), Educational (E) (918.4.1)
- Business (B) (918.4.2)
- High-hazard (H) (918.4.3)
- Institutional (I) (918.4.4)
- Residential (R-1) (918.4.5)
- Residential (R-2) (918.4.6)
- Location/details (918.5)
- Power supply/wiring (918.6, 918.7)
- Alarm-notification appliances (918.8)
- Voice/alarm signaling system (918.9)

AUTOMATIC FIRE DETECTION SYSTEMS

- Approval (919.3)
- Institutional (I) (919.4.1, 919.4.2, 919.4.3)
- Residential (R-1) (919.4.4)
- Sprinklered buildings exception (919.5)
- Zones (919.6)

SINGLE- AND MULTIPLE-STATION SMOKE DETECTORS

- Residential (R-1) (920.3.1)
- Residential (R-2, R-3) (920.3.2)
- Institutional (I-1) (920.3.3)
- Interconnection (920.4)
- Battery backup (920.5)

FIRE EXTINGUISHERS

- Approval (921.1)
- Required (921.2)

SMOKE CONTROL SYSTEMS

- Passive system (922.2.1)
- Mechanical system (922.2.2)
- Smoke removal (922.3)
- Activation (922.4)
- Standby power (922.5)

SMOKE AND HEAT VENTS

- Size and spacing (923.2)

SUPERVISION

- Fire suppression systems (924.1)
- Fire alarm systems (924.2)

HOW IS SYSTEM ACTUATED
 WHERE ARE THE GUAGE LOCATIONS
 915.7.4 FIRE RESISTANCE

ROOFS AND ROOF STRUCTURES (Chapter 15)

Performance requirements (1505.0)	Low-slope roof coverings (1507.5)
Fire classification (1506.0)	Flashing (1508.0)
Steep-slope roof coverings (1507.4)	Roof structures (1510.0)

STRUCTURAL SYSTEMS (Chapters 16, 17, 18)

STRUCTURAL LOADS (Chapter 16)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS (1603.1)

Uniformly distributed floor live loads (1603.2, 1606.0)

Floor Area Use	Loads Shown
ALL	100 PSF

Live load reduction (1603.2, 1606.7)

Roof live loads (1603.3, 1607.0)

Roof snow loads (1603.4, 1608.0)

60	Ground snow load, P_g (1608.3)
	If $P_g > 10$ psf, flat-roof snow load, P_f (1608.4)
	If $P_g > 10$ psf, snow exposure factor, C_e (Table 1608.4)
	Sloped roof snowload, P_s (1608.5)
	If $P_g > 10$ psf, snow load importance factor, I (Table 1609.5)

Wind loads (1603.5, 1609.0)

85	Basic wind speed (1609.3)
C	Wind exposure category (1609.4)
1.1	Wind importance factor, I (Table 1609.5)
39	Wind design pressure, P (1609.7)

Earthquake loads (1603.6, 1610.0)

0.10	Peak velocity-related acceleration, A_v (1610.1.3)
0.10	Peak acceleration, A_a (1610.1.3)
II	Seismic hazard exposure group (1610.1.5)
C	Seismic performance category (1610.1.7)
	Soil-profile type (Table 1610.3.1)
	Basic structural system and seismic-resisting system (Table 1610.3.3)
4.5	Response modification factor, R , and deflection amplification factor, C_d (Table 1610.3.3)
	Analysis procedure (1610.4, 1610.5)

Other loads

	Attic load (1606.2.2, 1606.2.3)
	Partition loads (1606.2.4)
	Concentrated loads (1606.3)
	Impact loads (1606.6)
	Misc. loads (1606.4, 1606.8, 1606.9, 1607.5, 1612.0)

STRUCTURAL DESIGN CALCULATIONS

	Submitted for all structural members (107.7)
	Signed/sealed (107.7, 114.1)
	Deflection limits considered (1604.5)

STEEL (Chapter 22)

<p>✓</p> <p><u>FORGET COMING</u></p> <p><u>N/A</u></p>	<p>Structural steel design/construction standard specified (2203.1, 2203.2)</p> <p>Shop drawing preparation specified (2203.4)</p> <p>Open-web steel joist design/construction standard specified (2205.1)</p>	<p><u>N/A</u></p> <p><u>N/A</u></p>	<p>Formed steel design/construction standard specified (2206.1)</p> <p>Formed steel member identification (2206.6)</p>
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WOOD (Chapter 23)

<p>_____ Installation inspections (2301.2)</p> <p>_____ Design/construction standard specified (2303.1)</p> <p>_____ Grade mark specified (2303.1.1)</p> <p>HEAVY TIMBER CONSTRUCTION</p> <p>_____ Minimum dimensions (605.1, 2304.0)</p> <p>_____ Design/construction standard specified (2304.1)</p> <p>WOOD FRAME CONSTRUCTION</p> <p>_____ Fastening and construction details (2305.0, Table 2305.2)</p> <p>_____ Wind bracing design required (2305.7)</p>	<p>_____ Seismic bracing (2305.8)</p> <p>_____ Foundation anchorage (2305.17)</p> <p>_____ Wood structural panels (2307.0)</p> <p>_____ Particleboard (2308.0)</p> <p>_____ Fiberboard (2309.0)</p> <p>_____ Fireretardant-treated wood (2310.0)</p> <p>_____ Decay and termite protection (2311.0)</p> <p>_____ Joist hangers (2312.0)</p> <p>_____ Prefabricated components (2313.1, 2313.3.1, 2313.3.2)</p> <p>_____ Metal-plate-connected trusses (2313.3.1, 2313.3.2)</p>
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NONSTRUCTURAL MATERIALS (Chapters 24, 25, 26)

GLASS AND GLAZING (Chapter 24)

<p><u>SHOP DRAWINGS FORGET COMING</u></p> <p>_____ Skylights (2404.0)</p>	<p>_____ Safety glazing (2405.0, 2406.0, 2407.0)</p>
---	--

GYPSUM BOARD AND PLASTER (Chapter 25)

<p>_____ Gypsum board materials (2503.0, Table 2503.2, Table 2503.3)</p>	<p>_____ Plaster (2504.0, 2505.0, 2506.0)</p>
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PLASTIC (Chapter 26)

<p>_____ Approved materials (2601.2)</p> <p>_____ Identification (2601.4)</p> <p>_____ Interior trim (2603.7)</p> <p>_____ Alternative approval (2603.8)</p>	<p>FOAM PLASTIC (2603.0)</p> <p>_____ Labeling (2603.2)</p> <p>_____ Surface-burning characteristics (2603.3)</p> <p>_____ Thermal barrier (2603.4)</p> <p>_____ Exterior walls (2603.5, 2603.6)</p>
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_____ LIGHT-TRANSMITTING PLASTIC (2603.5, 2604.0) _____

_____ Unprotected openings (2606.0)

_____ Diffusing systems (2604.5) _____

_____ Roof panels (2607.0)

_____ Wall panels (2605.0) _____

_____ Skylight glazing (2608.0)

BUILDING SERVICES (Chapters 28, 30)

MECHANICAL SYSTEMS (Chapter 28)

_____ Waste- and linen-handling systems (2807.0)

_____ Refuse vaults (2808.0)

ELEVATORS AND CONVEYING SYSTEMS (Chapter 30)

NA _____ Construction standard specified (3001.2) _____

_____ Venting (3007.3 - 3007.6)

_____ Elevator emergency operation (3006.2) _____

_____ Opening protectives (3008.2)

_____ Hoistway enclosure (3007.1) _____

_____ Conveyors and escalators (3010.0, 3011.0)

SPECIAL DEVICES AND CONDITIONS (Chapters 31, 34)

SPECIAL CONSTRUCTION (Chapter 31)

_____ Membrane structures (3103.0)

_____ PEDESTRIAN WALKWAYS (3106.0)

_____ Flood-resistant construction (3107.0)

_____ Construction and use (3106.1 - 3106.3)

_____ Towers (3108.0)

_____ Separation (3106.4)

_____ Local approval (3106.5)

_____ Egress and size (3106.6 - 3106.8)

EXISTING STRUCTURES (Chapter 34)

ADDITIONS, ALTERATIONS OR CHANGE OF OCCUPANCY

NA _____ General requirements (3402.0) _____

_____ Additions/alterations (3403.0, 3404.0)

_____ Structural loads (1614.0, 3402.5) _____

_____ Change of occupancy (1110.3, 3405.0)

_____ Accessibility (1110.0, 3402.7) _____

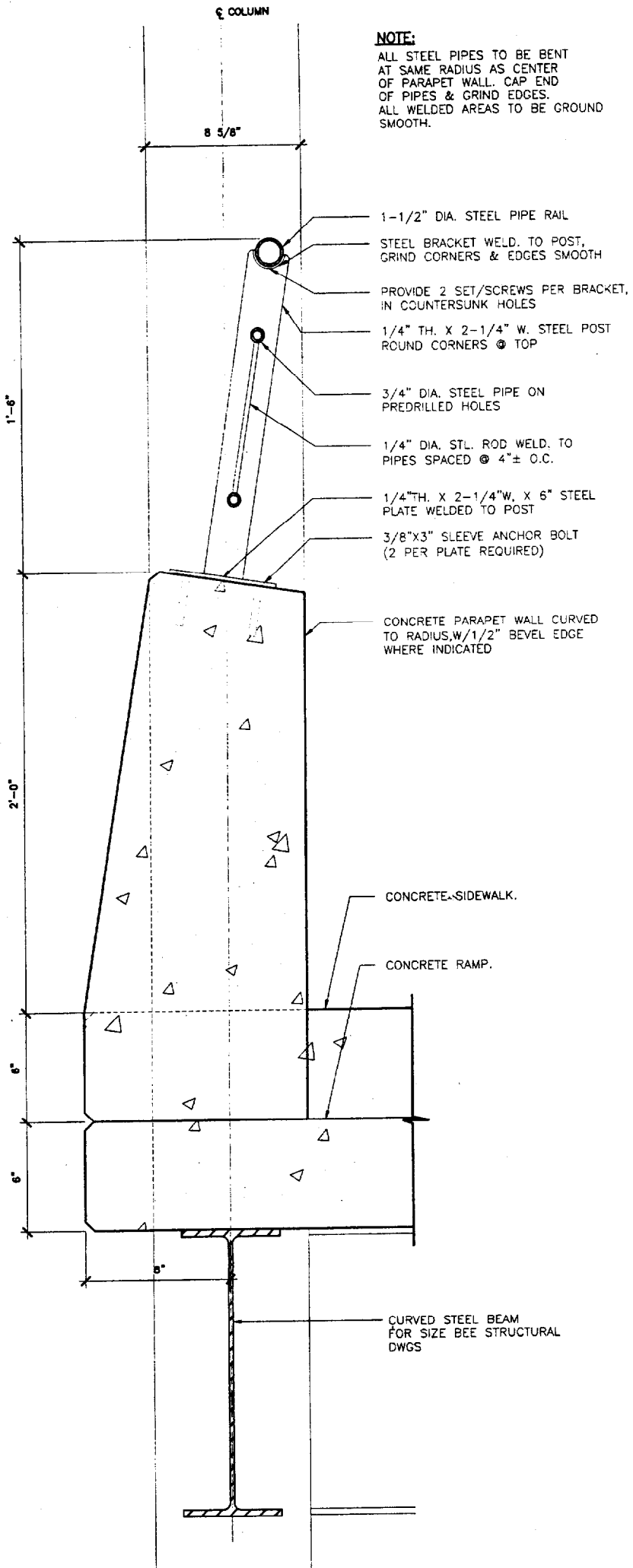
_____ Compliance alternative evaluation (3408.0)

BUILDING EVALUATION SUMMARY (Table 3408.7)

Existing use group _____	Proposed use group _____
Year building was constructed _____	Number of stories _____ Height in feet _____
Type of construction _____	Area per floor _____
Percentage of open perimeter _____ %	Percentage of height reduction _____ %
Completely suppressed: Yes _____ No _____	Corridor wall rating _____
Compartmentation: Yes _____ No _____	Required door closers: Yes _____ No _____
Fire-resistance rating of vertical opening enclosures _____	
Type of HVAC system _____	_____ serving number of floors _____

**DOMENECH
HICKS &
KROCKMALNIC
ARCHITECTS**

155 Massachusetts Ave.
Boston, MA 02115
617-267-6408
Fax 617-267-1990



**CITY OF PORTLAND
PORTLAND, MAINE**

**DEPARTMENT OF
WATERFRONT AND
TRANSPORTATION**

**PHASE I
PARKING GARAGE**

**PORTLAND
INTERNATIONAL
JETPORT**

PORTLAND, MAINE

No.	Date	Revision

HELIX RAIL DETAILS

**CITY OF PORTLAND, MAINE
DEVELOPMENT REVIEW APPLICATION
PLANNING DEPARTMENT PROCESSING FORM**

20000012

I. D. Number

City of Portland/Jeff Schultes

Applicant
1001 Westbrook St., Portland, ME 04103

Applicant's Mailing Address
Deluca-Hoffman

Consultant/Agent
775-1121 879-0896

Applicant or Agent Daytime Telephone, Fax

Application Date

Parking Expansion

Project Name/Description

1001 Westbrook St, Portland, Maine 04103

Address of Proposed Site

204-A-001

Assessor's Reference: Chart-Block-Lot

Proposed Development (check all that apply):
 Office Retail Manufacturing Warehouse/Distribution Parking Lot Other (specify) **Parking Lot Expansion**
18,000 Sq.Ft. **650 AC** **AB**

Proposed Building square Feet or # of Units **18,000 Sq.Ft.** Acreage of Site **650 AC** Zoning **AB**

Check Review Required:

Site Plan (major/minor) Subdivision # of lots PAD Review 14-403 Streets Review
 Flood Hazard Shoreland Historic Preservation DEP Local Certification
 Zoning Conditional Use (ZBA/PB) Zoning Variance Other

Fees Paid: Site Plan **\$0.00** Subdivision Engineer Review Date: **1/26/00**

Inspections Approval Status:

Reviewer _____

Approved Approved w/Conditions see attached Denied

Approval Date _____ Approval Expiration _____ Extension to _____ Additional Sheets Attached

Condition Compliance _____ signature _____ date _____

Performance Guarantee Required* Not Required

* No building permit may be issued until a performance guarantee has been submitted as indicated below

<input type="checkbox"/> Performance Guarantee Accepted	_____	_____	_____
	date	amount	expiration date
<input type="checkbox"/> Inspection Fee Paid	_____	_____	
	date	amount	
<input type="checkbox"/> Building Permit Issued	_____		
	date		
<input type="checkbox"/> Performance Guarantee Reduced	_____	_____	_____
	date	remaining balance	signature
<input type="checkbox"/> Temporary Certificate of Occupancy	_____	<input type="checkbox"/> Conditions (See Attached)	
	date		
<input type="checkbox"/> Final Inspection	_____	_____	
	date	signature	
<input type="checkbox"/> Certificate Of Occupancy	_____		
	date		
<input type="checkbox"/> Performance Guarantee Released	_____	_____	
	date	signature	
<input type="checkbox"/> Defect Guarantee Submitted	_____	_____	_____
	submitted date	amount	expiration date
<input type="checkbox"/> Defect Guarantee Released	_____	_____	
	date	signature	

1001 Westbrook St / 1001

**Site Review Pre-Application
Multi-Family/Attached Single Family Dwellings/Two-Family Dwelling
or Commercial Structures and Additions Thereto**

In the interest of processing your application in the quickest possible manner, please complete the Information below for Site Plan Review

NOTEIf 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.**

City of Portland, Jeff Schultes 1/26/00

Applicant 1001 Westbrook St. 204-A-001 Application Date Parking Expansion

Applicant's Mailing Address Deluca - Hoffman Assoc, Inc Project Name/Description 1001 Westbrook St

Consultant/Agent T: 775-1121 F: 879-0896 Address Of Proposed Site Portland ME

Applicant/Agent Daytime telephone and FAX Assessor's Reference, Chart#, Block, Lot# 204-A-001

Proposed Development (Check all that apply) New Building Building Addition Change of Use Residential Office Retail
 Manufacturing Warehouse/Distribution Other(Specify) Parking lot Expansion, ~~12,000 SF~~

N/A / 12,000 SF Portland Int. Airport 650 Acres +/- AB

Proposed Building Square Footage and /or # of Units Acreage of Site Zoning

You must Include the following with you application:

- 1) A Copy of Your Deed or Purchase and Sale Agreement
- 2) 7 sets of Site Plan packages containing the information found in the attached sample plans and checklist.

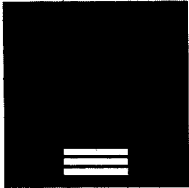
(Section 14-522 of the Zoning Ordinance outlines the process, copies are available for review at the counter, photocopies are \$ 0.25 per page)

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/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if an approval for the proposed project or use 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 approval at any reasonable hour to enforce the provisions of the codes applicable to this approval.

Signature of applicant: <u>Michael J. Deluca</u>	Date: <u>1/26/00</u>
--	----------------------

Site Review Fee: Major \$500.00 Minor 400.00

This application is for site review ONLY, a Building Permit application and associated fees will be required prior to construction.



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

January 21, 2000

Mr. Rick Knowland
Planning Department
Code Enforcement Department
City Hall
389 Congress Street
Portland, Maine 04101

Subject: Employee Parking Lot Expansion at the Portland International Jetport

Dear Code Enforcement Department:

On behalf of the City of Portland, Department of Transportation, we have furnished seven (7) copies of plans for an 18,000 s.f. parking lot expansion at the Portland International Jetport. The work is on the south side of the existing employee parking lot and will provide space for 81 cars. Additionally, we propose to pave a 12' wide by 100' long strip on the west side of the air rescue station that will be designated for drop-offs.

These plans are attempting to maximize the usable space at the highly constrained airport property. It became available when the new airport access roads were opened and consequent closing of a portion of the existing airport access road. Now that the general public does not travel south of the employee parking lot, a large screened buffer is not as important as the additional parking.

Highlights of the plan are as follows:

STORMWATER MANAGEMENT

The 18,000 +/- s.f. parking lot expansion is within a 24.44 acre watershed. It is located in the bottom of this watershed and the construction will have no significant impact to the peak runoff of the watershed.

STORMWATER QUALITY

The Portland International Jetport is proposing to install six (6) water quality units to treat paved surfaces at the airport. The locations are shown on the attached drawing and unit 2 will treat this area. Construction is scheduled for this year and will be a condition of the Maine Department of Environmental Protection/U.S. Army Corps of Engineers permit for the upcoming multi-year projects at the airport.

LIGHTING

The existing parking lot and pedestrian lights can provide adequate light for the new area. The parking lot lights and about 70' away from the expansion and pedestrian lights about the sidewalk on the east side of the parking lot.

LANDSCAPING

The existing landscaping in the reconfigured parking lot islands will be removed and transplanted to the southeast corner. This will create a landscape buffer where the parking lot expansion will be most visible

Mr. Rick Knowland
January 21, 2000
Page 2

to the traveling public. Since the only traffic on the road to the south of the parking lot expansion will be for air cargo pick-up and deliveries, we are not proposing to landscape this area.

PEDESTRIAN CIRCULATION

A sidewalk from the proposed expansion will connect into the existing sidewalk on the west side of the parking lot.

EROSION/SEDIMENT CONTROL

Erosion/sediment control will be addressed by installing silt fence and a stabilized construction entrance. There is an existing gravel road on the south side that can be used for access. The construction will be monitored by our office and Artie Sewall, Director of Operations, for conformance to the plans and proper erosion/sediment control measures.

SOILS

Soils in the area have historically been clays. An underdrain is provided to capture groundwater and protect the pavement structure.

OTHER PERMITS

The work will require a modification to the Site Location of Development permit for the airport. Historically, for small project, this has been a 30-60 day process. Therefore, we anticipate approvals so that construction may begin in late spring.

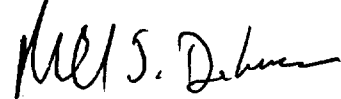
FEES

Any fees should be through the Airport Manger's office.

We look forward to appearing before the Planning Board. In the meantime, 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/JN1881/Knowland1-18

Enclosures

c: Jeff Schultes, AAE, Airport Manager
Artie Sewall, Director of Operations