

City of Portland, Maine - Building or Use Permit

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

Permit No: 03-1135	Date Applied For: 09/16/2003	CBL: 375 A023001
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Location of Construction: 94 Auburn St	Owner Name: 94 Auburn Llc	Owner Address: Po Box 2133	Phone: 207-774-6226
Business Name: n/a	Contractor Name: Allied/Cook Construction	Contractor Address: PO Box 1396 Portland	Phone: (207) 772-2888
Lessee/Buyer's Name n/a	Phone: n/a	Permit Type: Additions - Commercial	

Proposed Use: Office / Adding interior elevator, sprinkler system, stair, corridor and office renovations.	Proposed Project Description: Adding interior elevator, sprinkler system, stair, corridor and office renovations.
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Dept: Zoning Status: Approved Reviewer: Marge Schmuckal Approval Date: 09/23/2003
 Note: Ok to Issue:

Dept: Building Status: Approved with Conditions Reviewer: Mike Nugent Approval Date: 10/07/2003
 Note: Ok to Issue:
 1) L & L Structurals to fax a Special Inspection Scope with regard to the Steel / Block work MJN

Dept: Fire Status: Approved with Conditions Reviewer: Lt. MacDougal Approval Date: 09/24/2003
 Note: Ok to Issue:
 1) the fire alarm system and sprinkler system shall be tested in accordance with the appropriate standard and the results submitted to the Portland Fire Department
 2) the sprinkler system shall be installed in accordance with NFPA 13 standards
 3) the elevator shall have firefighter recall
 4) the fire alarm system shall be installed in accordance with NFPA 72 standards



Application for Construction Permit

Department of Public Safety
Licensing & Inspections
164 State House Station
Augusta, Maine 04333-0164
Tel: 207-624-8744 x 1
Fax: 207-624-8767

SHADED AREAS ARE FOR OFFICE USE ONLY (3-99)

Project Information

Project Name: LOGAN PAINT
 Street Location: 34 BLUEBERRY ROAD Town Location: PORTLAND, ME
 County: Cumberland
 New Building: Renovation: Addition: Occupancy Change:
 Sprinkler System: Yes No Sprinkler System Supervised: Yes No
 Date of Construction Start-up: _____ Estimated Project Cost: \$600,000
 Date of Construction Completion: _____ Construction Permit Fee: \$200.00
(Fee schedule is on back)

Occupancy Classification

Apartments <input type="checkbox"/>	Nursing Home <input type="checkbox"/>	Educational <input type="checkbox"/>
Hotel / Motel <input type="checkbox"/>	Industrial <input type="checkbox"/>	Daycare <input type="checkbox"/>
Rooming & Lodging <input type="checkbox"/>	Residential Care Level I <input type="checkbox"/>	Detention <input type="checkbox"/>
Congregate Housing <input type="checkbox"/>	Residential Care Level II <input type="checkbox"/>	Business <input checked="" type="checkbox"/>
Hospital <input type="checkbox"/>	Assembly Class A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/>	Other <input type="checkbox"/>
Limited Care <input type="checkbox"/>	Mercantile A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/>	

Construction Type

Fire Resistive: Type I (443), (332) <input type="checkbox"/>	Unprotected Ordinary: Type III (200) <input type="checkbox"/>
Protected Non-Combustible: Type II (222), (111) <input type="checkbox"/>	Heavy Timber: Type IV (2HH) <input type="checkbox"/>
Unprotected Non-Combustible: Type II (000) <input checked="" type="checkbox"/>	Protected Wood Frame: Type V (111) <input type="checkbox"/>
Protected Ordinary: Type III (211) <input type="checkbox"/>	Unprotected Wood Frame: Type V (000) <input type="checkbox"/>

Addresses

Owner's Name: JOHN LOGAN Telephone: 774-6321 Fax: _____
 Mailing Address: 971 CONGRESS ST
 Town: PORTLAND ME State: MAINE Zip Code: 04101
 Design Professional: PHILIP J. DOUGHTY Telephone: 781-5346 Fax: 781-2908
 Maine Registration Number: 1108 E-mail: PDARCH@MAINE.PR.COM
 Mailing Address: 362 US RT 1
 Town: FALMOUTH State: ME Zip Code: 04105
 General Contractor: LANFORD & LAN Telephone: 797-5141 Fax: _____
 Mailing Address: 248 WARREN AVENUE
 Town: PORTLAND, MAINE State: MAINE Zip Code: 04101

Signature of Applicant: Phillip J. Doughty

Preliminary Approval: <input type="checkbox"/>	Date: _____	Approved By: _____
Construction Permit: <input type="checkbox"/>	Date: _____	Approved By: _____
Approval Letter: <input type="checkbox"/>	Date: _____	Approved By: _____

-When a permit is not required

LOG #	DATE PLANS RECEIVED	REVIEW FEE	DATE FEE RECEIVED	CHECK #	PLAN REVIEWER	DATE PERMIT ISSUED	PERMIT #
		200.00	6/19/03	6456	R.M		
		200.00					
		200.00					
		400.00					

(3-99)

AUG 10 '03 (MON) 02:34

PAGE 2/4



**CITY OF PORTLAND
ACCESSIBILITY CERTIFICATE**

Designer: Phillip J. Doughty Associates - Architects

Address of Project: 34 Blueberry Rd.

Nature of Project: Warehouse and office

Date: August 13, 2003

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

Phillip J. Doughty
Phillip J. Doughty

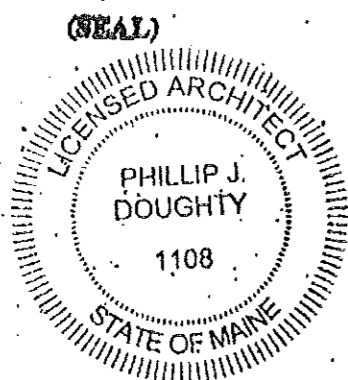
Signature: Phillip J. Doughty

Title: Principal/Architect

Firm: Phillip Doughty Assoc. - Architects

Address: 362 U.S. Route One
Falmouth, ME 04105

Telephone: (207) 781-5346



AUG 11 '03 13:25

PAGE.001

AUG 14 '03 9:43

PAGE.002

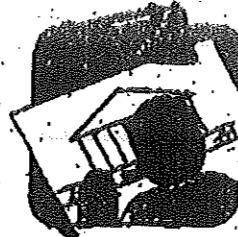
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** 200 3584 78101 **

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PAGE 3/4



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: Phillip Doughty Assoc. - Architects

362 U.S. Route One, Palmouth, ME 04105

August 13, 2003

DATE: _____

Job Name: Office and Warehouse Facility

Address of Construction: 34 Blueberry Road, Portland, ME 0

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):** B/S1

Type of Construction: 2C **Bldg. Height:** 17'-0" **Bldg. Sq. Footage:** 10,100 gross s.

Seismic Zone: A = 0.11 **Group Class:** Business/Storage

Roof Snow Load Per Sq. Ft.: 42 lbs/sf **Dead Load Per Sq. Ft.:** 12 psf

Basic Wind Speed (mph): 85 mph **Effective Velocity Pressure Per Sq. Ft.:** 18.5 psf

Floor Live Load Per Sq. Ft.: n/a (Slab on Grade)

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 319 is being considered _____

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

8-10 persons total facility

(Designer's Stamp & Signature)

AUG 11 03 11:25

PAGE 002

AUG 14 03 14:44

PAGE 003

AUG 11 03 13:49

207 781 2908 PAGE.004

Abbreviations

ACT Architect Acting Title	ES EOOD	N/A Not Applicable
AF Above Finished Floor	EST Estimate	NC Not In Contract
AF Access Floor	ET Exhaust Fan	NT Not To Scale
AL Aluminum	EOT Exhaust	OC On Center
ALUM Aluminum	EXP Expansion	OD Outside Diameter
A/C Air Conditioner	FA Fire Alarm	P/W Plywood
ASMT Asbestos	FAD Furnished By Owner	FT Foot
APPROX Approximate	FE Fire Extinguisher	FD Foot
APPROV Approved	FI Fire	FO Foot
BSMT Basement	FL Floor	FOC Polypropylene
SP Sealing Putty	GA Gauge	OT Ovary The
BM Benchmark	GC Gypsum	R Radius
BO Board	GC General Contractor	REF Refrigerator
BSI Bottom	GD Gypsum Board	RESL Resilient
B/DG Building	OSB Oriented Strand Board	RM Room
CBT Cabinet Unit Heater	OSB OSB	RO Rough Opening
CM Cabinet	H Height, High	S/S Sheet
CPT Carpet	HORZ Horizontal	SW Sinker
CLN Cabinet Unit Heater	HT Height, High	SPC Specifications
C Center Line	HM Hollow Metal	SQ Square
CLD Ceiling	HT Height, High	SS Stainless Steel
CT Ceiling Tile	HM Hollow Metal	ST Steel
CO Clean Out	HT Height, High	TEL Telephone
CR Cold Water	HM Hollow Metal	TD Tempered Glass
COL Column	HT Height, High	TK Thickness
CONC Concrete	HT Height, High	TV Television
CONC Concrete Masonry Unit	HT Height, High	TP Typical
CONSTR Construction	HT Height, High	UN Unless Otherwise Noted
COV Cover	HT Height, High	VGB Vinyl Gove Base
D Depth, Deep	HT Height, High	VCT Vinyl Composition Tile
DM Dimension	HT Height, High	VERT Vertical
DN Down	HT Height, High	VGC Vinyl Wall Cover
DWG Drawing	HT Height, High	W Wood
DF Drinking Fountain	HT Height, High	W/ With
DFC Exterior Insulation Finish System	HT Height, High	W/O Without
ELEC Electrical	HT Height, High	
ENC Electric Water Cooler	HT Height, High	
ELEV Elevations	HT Height, High	

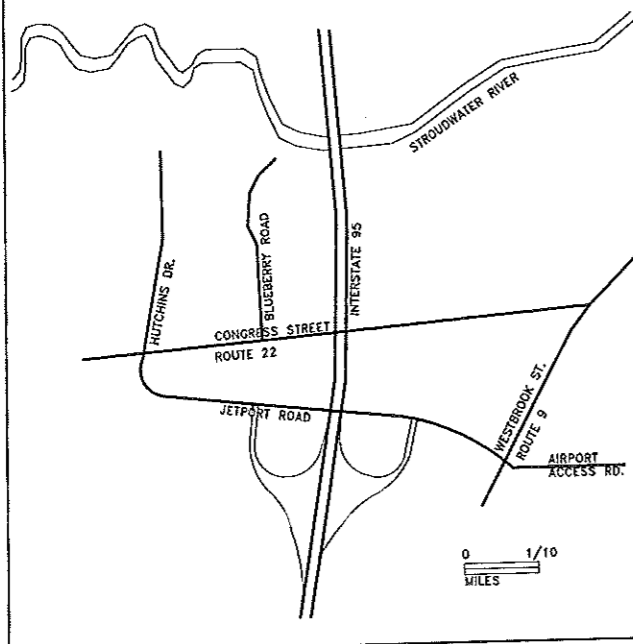
Symbol Legend

	Room Number
	Door Number
	Key Note
	Wall Type
	Removal Note
	Center Line
	Phantom Line
	Object Line

Section			
	Particle Board		Concrete
	Wood - Rough		Gypsum Board
	Wood - Finish		Plywood
	Wood - Intermediate Blocking		Batt Insulation
	Concrete Masonry Units		Rigid Insulation
	G-4		Steel
	Aluminum		Aluminum

Plan	
	RATED - 1 HOUR
	RATED - 2 HOUR
	Ceiling Grid

Vicinity Map



THEODORE LOGAN AND SON

OFFICE AND WAREHOUSE FACILITY

34 BLUEBERRY ROAD PORTLAND, MAINE

Issued for Bid / Construction

February 28, 2003

RELEASED FOR BIDS APRIL 14-2003

RELEASED W/ OWNERS AND MISC CHANGES 7-15-03

Prepared for:

MR. JOHN LOGAN
OWNER

ARCHITECT:

Phillip J. Doughty Associates - Architects
362 U . S . Route One
Falmouth, Maine 04105
Tel. (207) 781-5346

CIVIL ENGINEER:
SYTdesign Consultants
Cumberland, Maine
207-829-6994

MECHANICAL ENGINEER:
Mechanical Systems Engineers
Yarmouth, Maine
207-846-1441

STRUCTURAL ENGINEER
Structural Design Consultants
Falmouth, ME 04105
878-8038

ELECTRICAL ENGINEER
Elec. Design Consultants
Long Island Maine
207-766-5041

Drawing Index

T1 TITLE SHEET
SITE DRAWINGS AND SPECIFICATIONS
ARE PREPARED AND PROVIDED BY
SYTDesign Consultants UNDER SEPARATE COVER.

A1-A FLOOR PLAN (ALTERNATE)

A2-A ROOF PLAN (ALTERNATE)

A3 REFLECTED CEILING PLAN

A4 BUILDING ELEVATIONS

A6 MISC. DETAILS

A7 3/4" WALL SECTIONS

A8 3/4" WALL SECTIONS

A9-A FINISH SCHEDULE (ALTERNATE)

A10-A DOOR AND FRAME SCHED. (ALTERNATE)

A-11 DETAILS

STRUCTURAL

~~S1 FOUNDATION PLAN~~

S1-A FOUNDATION PLAN (ALTERNATE)

~~S2 ROOF FRAMING PLAN~~

S2-A ROOF FRAMING PLAN (ALTERNATE)

S3 FOUNDATION SECTIONS AND DETAILS

S4 COLUMN SCHED AND FRAMING DETAILS

MECHANICAL

M1 MECH FLOOR PLAN / SECT'N A-A, B-B

M2 GEN'L NOTES, SCHEDULES AND DETAILS

PLUMBING

P1 PLUMBING FLOOR PLAN

P2 PLUMBING DETAILS AND SCHEDULES

ELECTRICAL

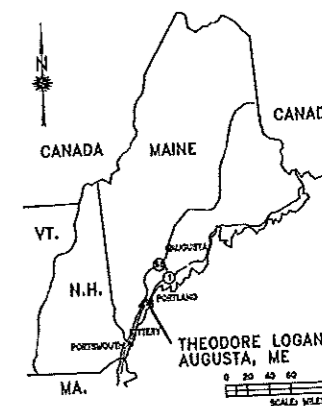
E-3 ELECTRICAL SITE PLAN

E-1A ELECT'L LIGHTING AND FIRE ALARM

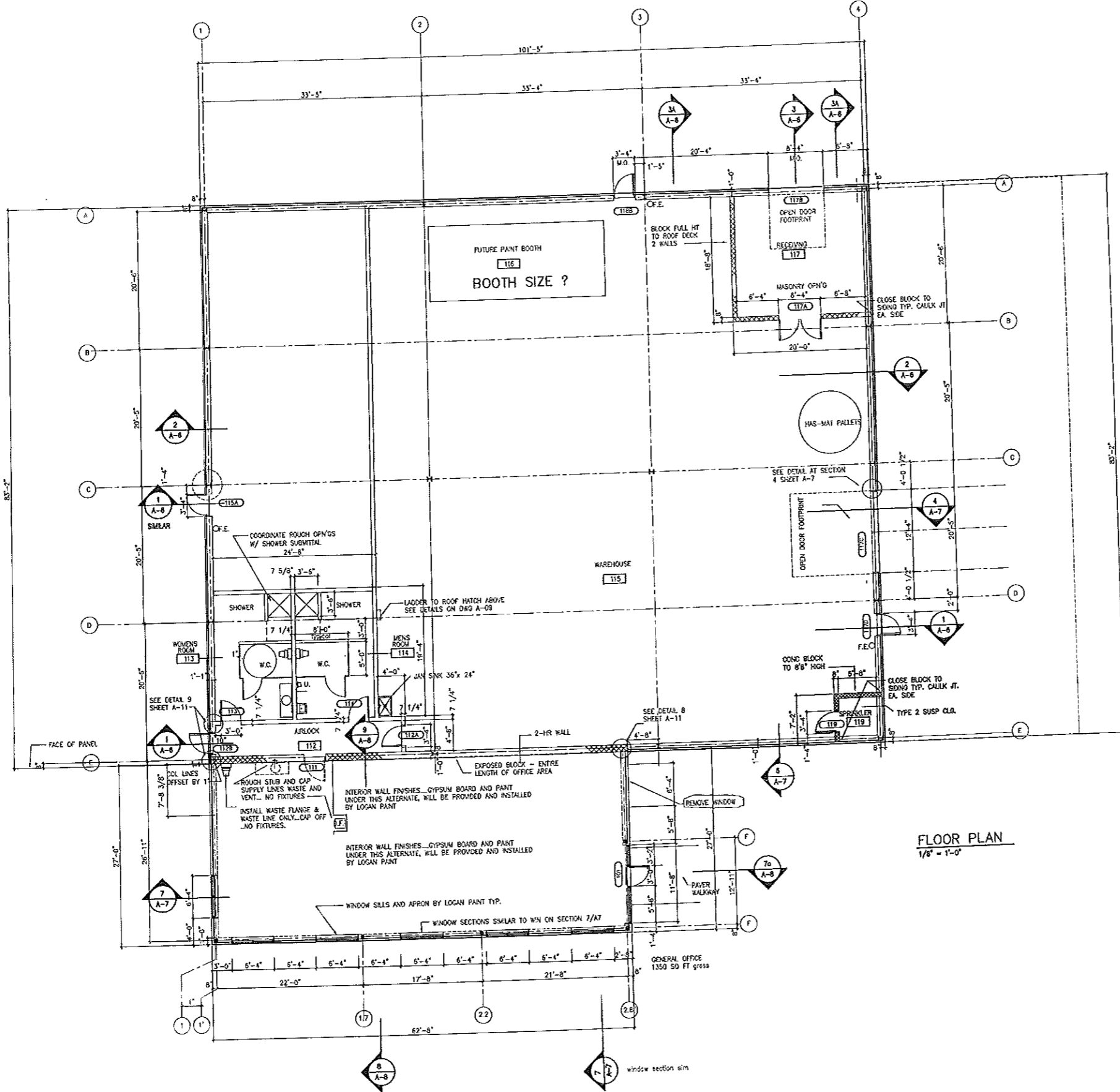
E-2A POWER DISTRIBUTION PLAN

E-3A SCHEDULES NOTES AND SYMBOLS

Area Map



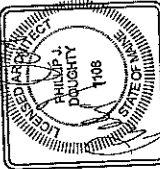
PDA Project No.: 010-013



FLOOR PLAN
1/8" = 1'-0"

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FEB 28, 2003	PJD	PJD	PJD	PJD	PJD	PJD	PJD	PJD	PJD
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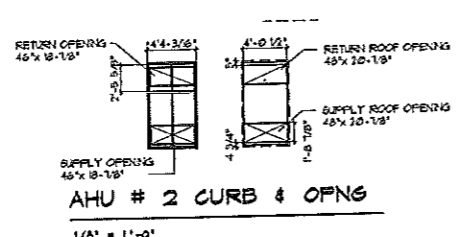
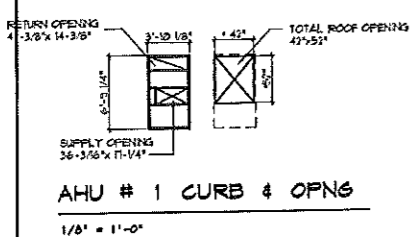
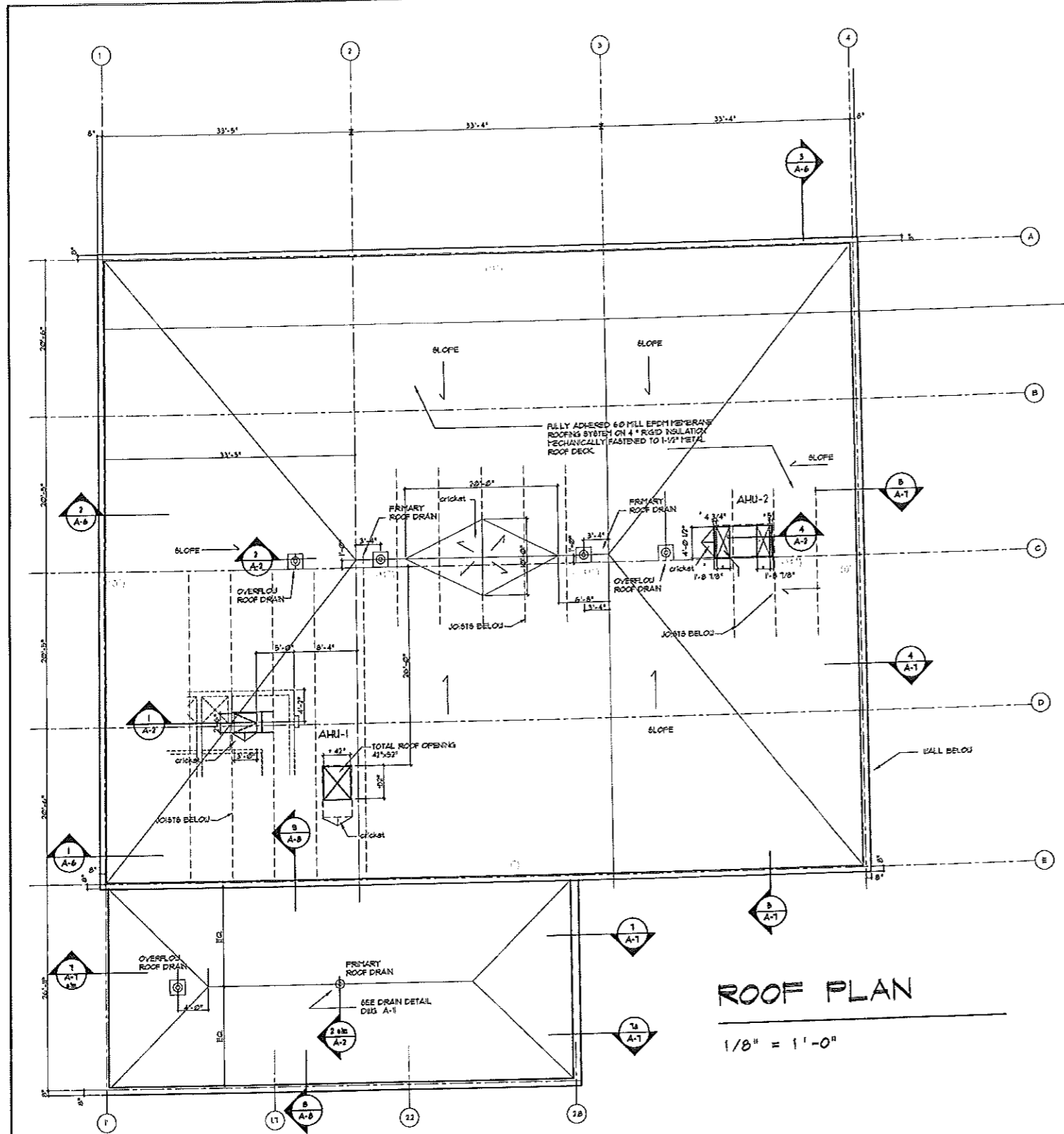


THEODORE LOGAN AND SON
OFFICE AND WAREHOUSE FACILITY
34 BLUEBERRY ROAD, PORTLAND, MAINE
FLOOR PLAN - ALTERNATE #1

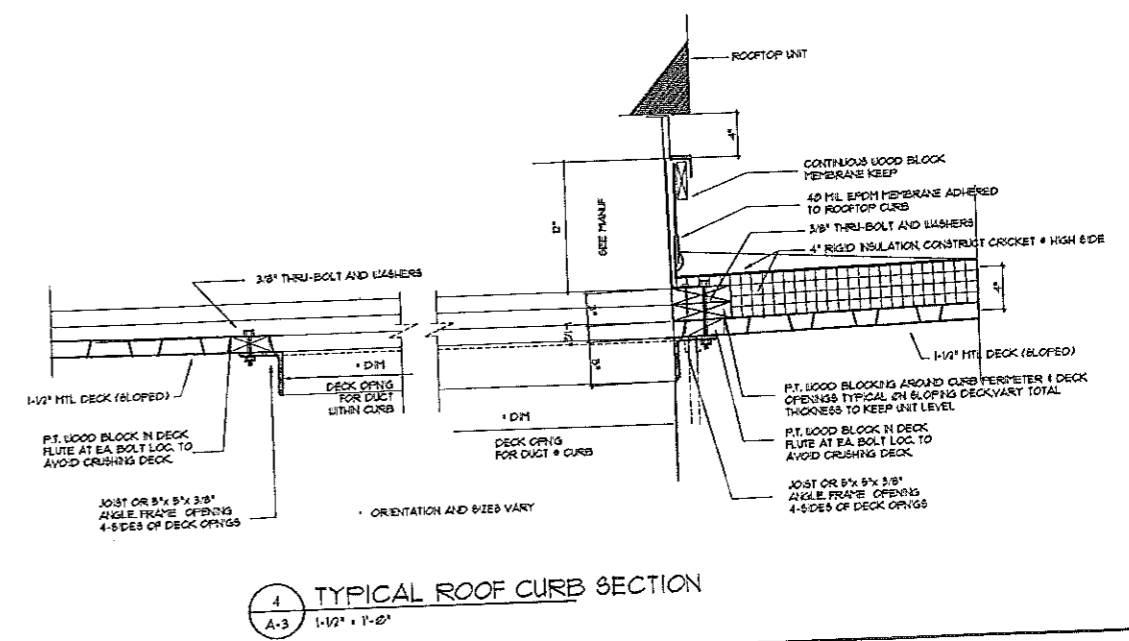
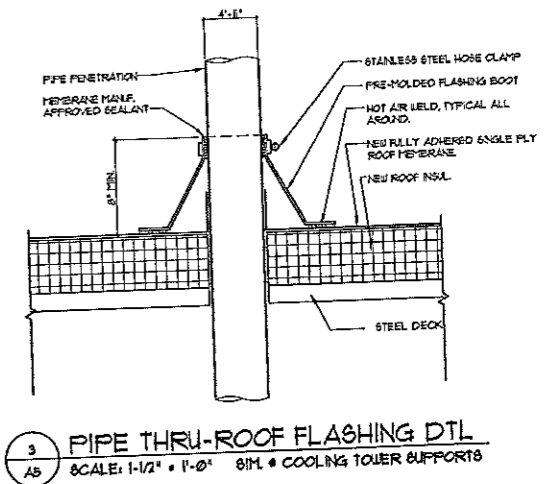
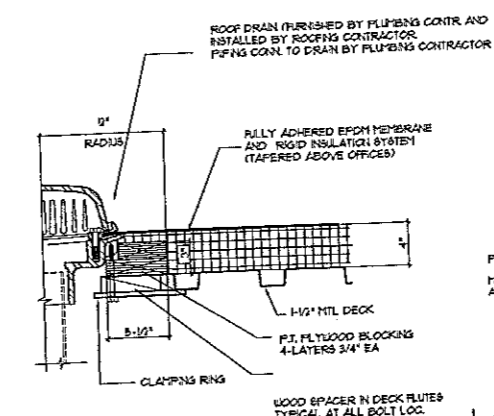
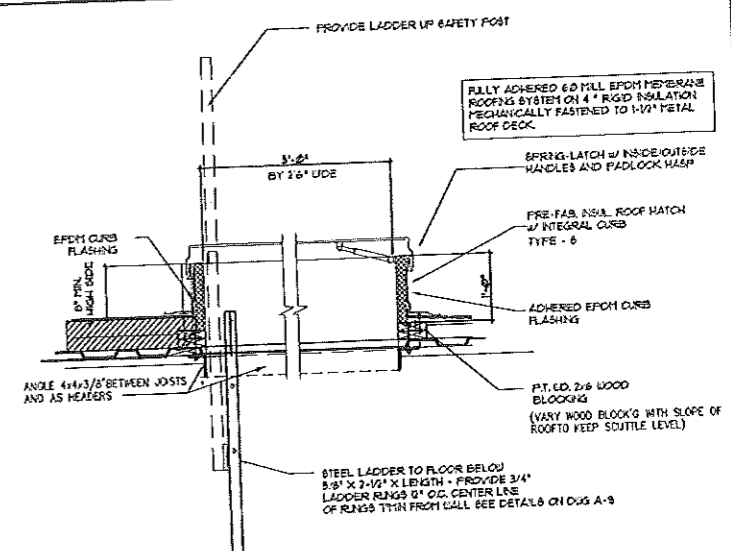
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DESIGNED: P.J.D.
DRAWN: P.J.D.
CHECKED: P.J.D.

PROJ: 020-001
SHT: A-1
SHEET NO. A-1
eterneta





NOTE:
ALL DIMS MAY VARY WITH EQUIP'T MANUFACTURERS

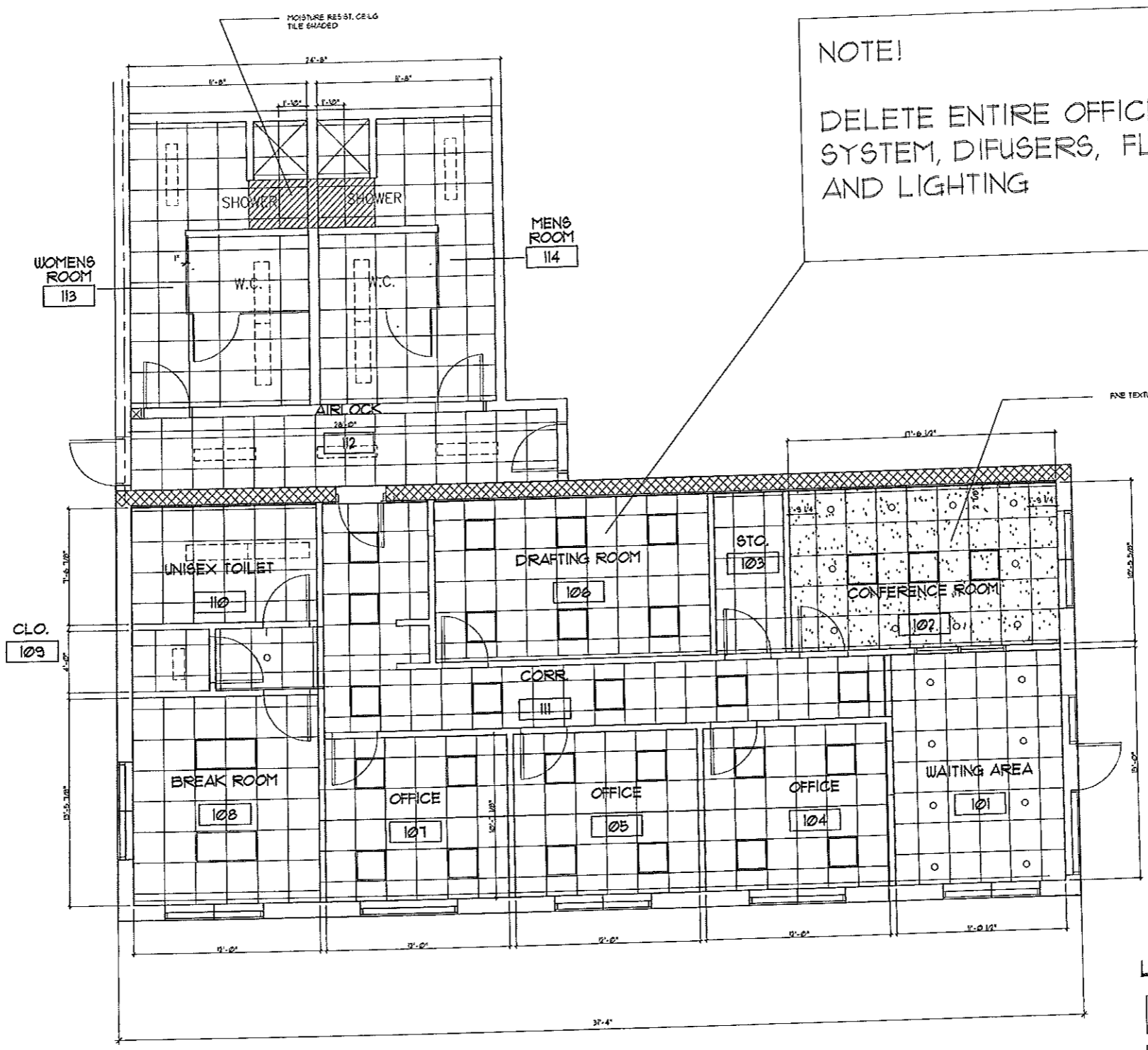


PROJECT NO.	1108
DATE	3-28-09
DESIGNED BY	PHILLIP J. DOUGHTY
DRAWN BY	PHILLIP J. DOUGHTY
CHECKED BY	PHILLIP J. DOUGHTY
SCALE	AS SHOWN
SHEET NO.	A-2
ALTERNATE	ALTERNATE # 1

THEODORE LOGAN AND SON
OFFICE AND WAREHOUSE FACILITY
34 BLUEBERRY ROAD, PORTLAND, MAINE
ROOF PLAN AND DETAILS - ALTERNATE # 1

C:\PROJECTS\2009-09\LOGAN\1108\1108-02_RoofPlan.dwg, 8/11/2009 10:53:55 PM, PDA ARCHITECTS




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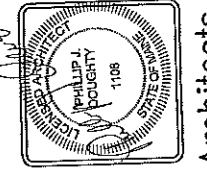
NOTE!
 DELETE ENTIRE OFFICE AREA CEILING SYSTEM, DIFUSERS, FLEX DUCT AND LIGHTING

REFLECTED CEILING PLAN

LEGEND

-  TYPE 1- 'CIRRUS', ANGLED TEGULAR CONFERENCE ROOM
-  NO TEXTURE SHOWN TYPE 2- 'FISSURED', ANGLED TEGULAR BALANCE OF CEILING EXCEPT AT SHOWER AREA AS SHOWN
-  TYPE 3- 'FISSURED', PERFORATED MOISTURE RESISTANT, CERAMIC AND MINERAL FIBER COMPOSITE CEILING TILE.

NO.	DATE	BY	CHKD.	APPV'D.	DATE
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2	FEB 28, 2003				
3	01-13-03				

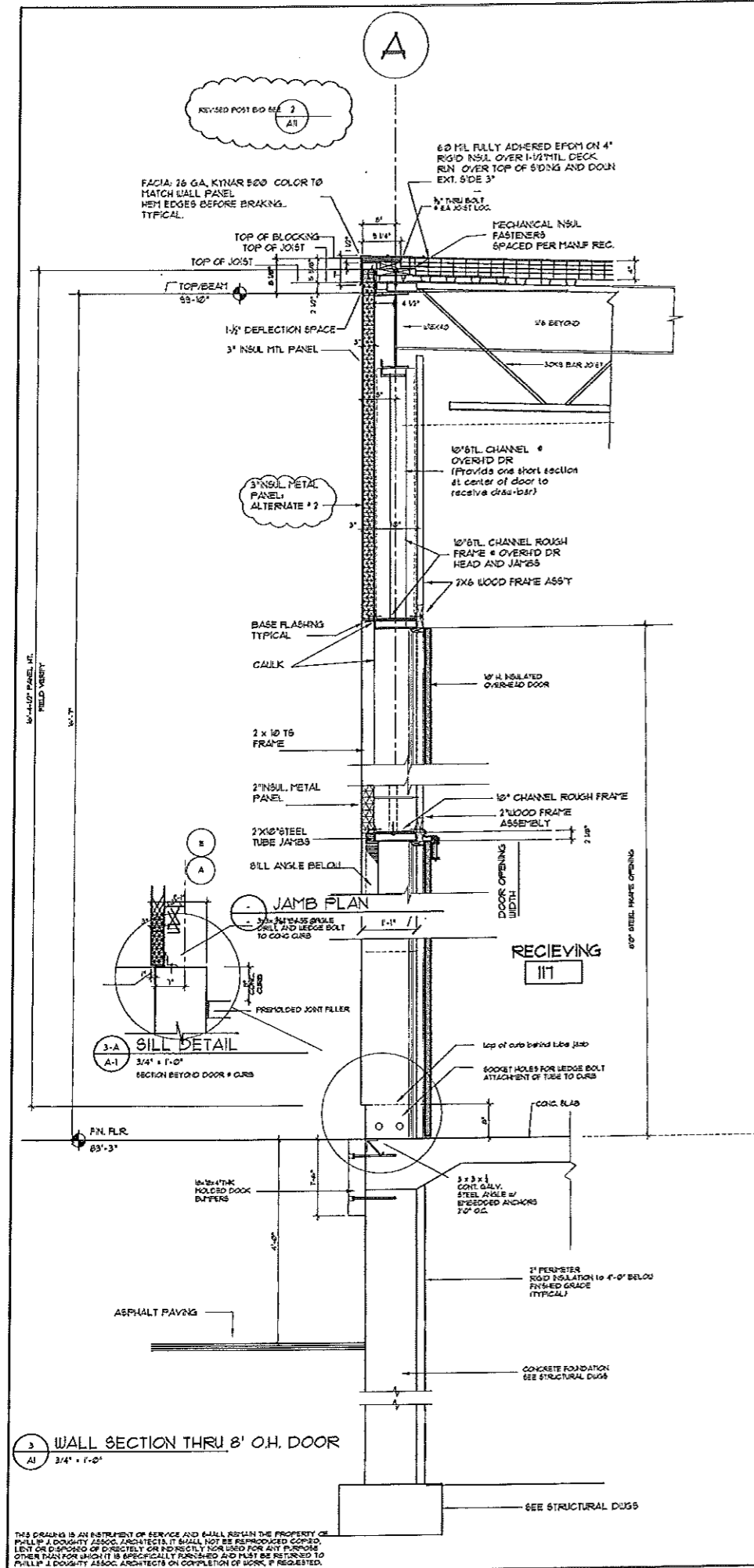


THEODORE LOGAN AND SON
 ARCHITECTS
 OFFICE AND WAREHOUSE FACILITY
 34 BLUEBERRY ROAD, PORTLAND, MAINE

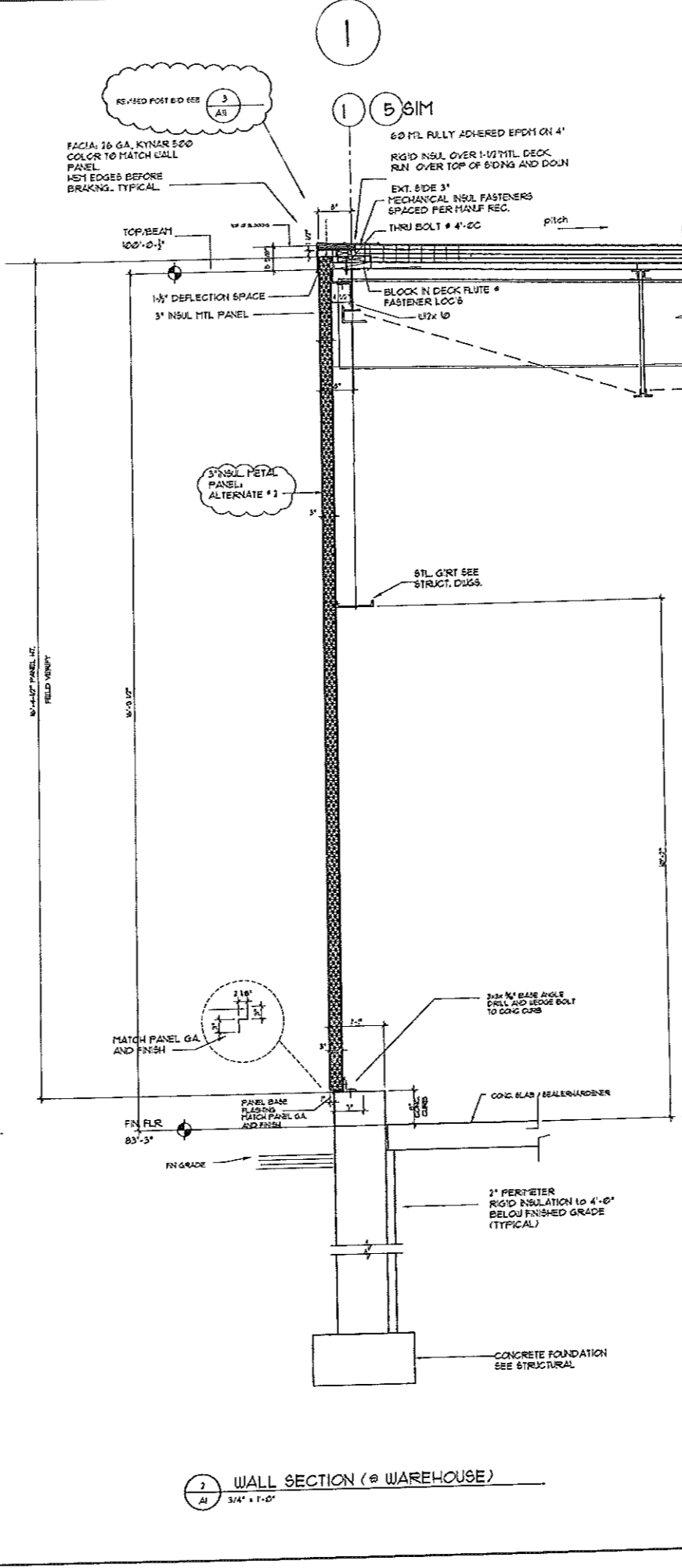
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 DATE: FEB 2003
 DESIGNED: P.J.D.
 DRAWN: P.D.
 CHECKED:
 APPROVED:

PROJ. SHEET NO. A-3

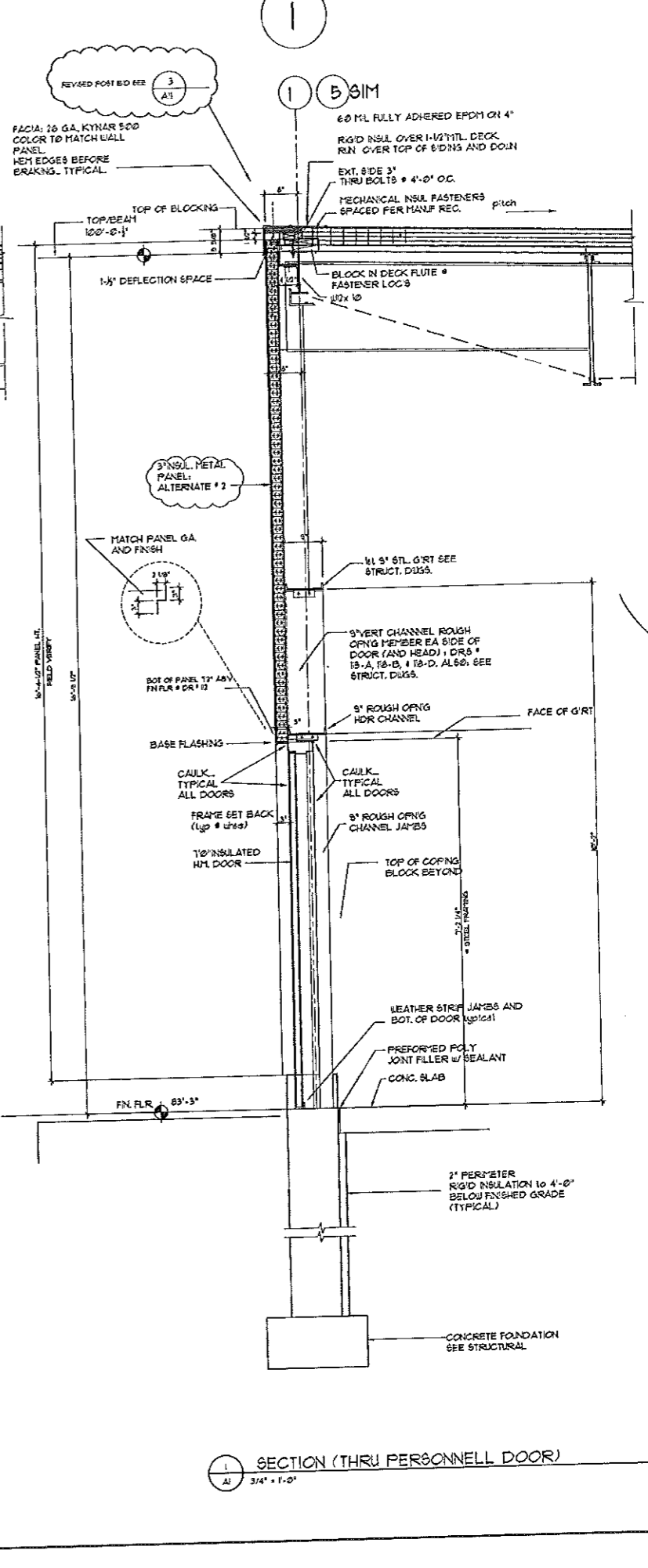
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3 WALL SECTION THRU 8' O.H. DOOR
3/4" x 1'-0"



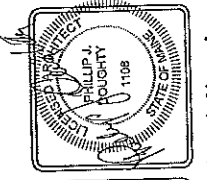
2 WALL SECTION (@ WAREHOUSE)
3/4" x 1'-0"



1 SECTION (THRU PERSONNEL DOOR)
3/4" x 1'-0"

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REV.	DATE	BY	CHKD.	APP'D.
1	7-18-00	JLD	JLD	JLD
2	8-14-00	JLD	JLD	JLD
3	11-28-02	JLD	JLD	JLD
4	12-20-02	JLD	JLD	JLD
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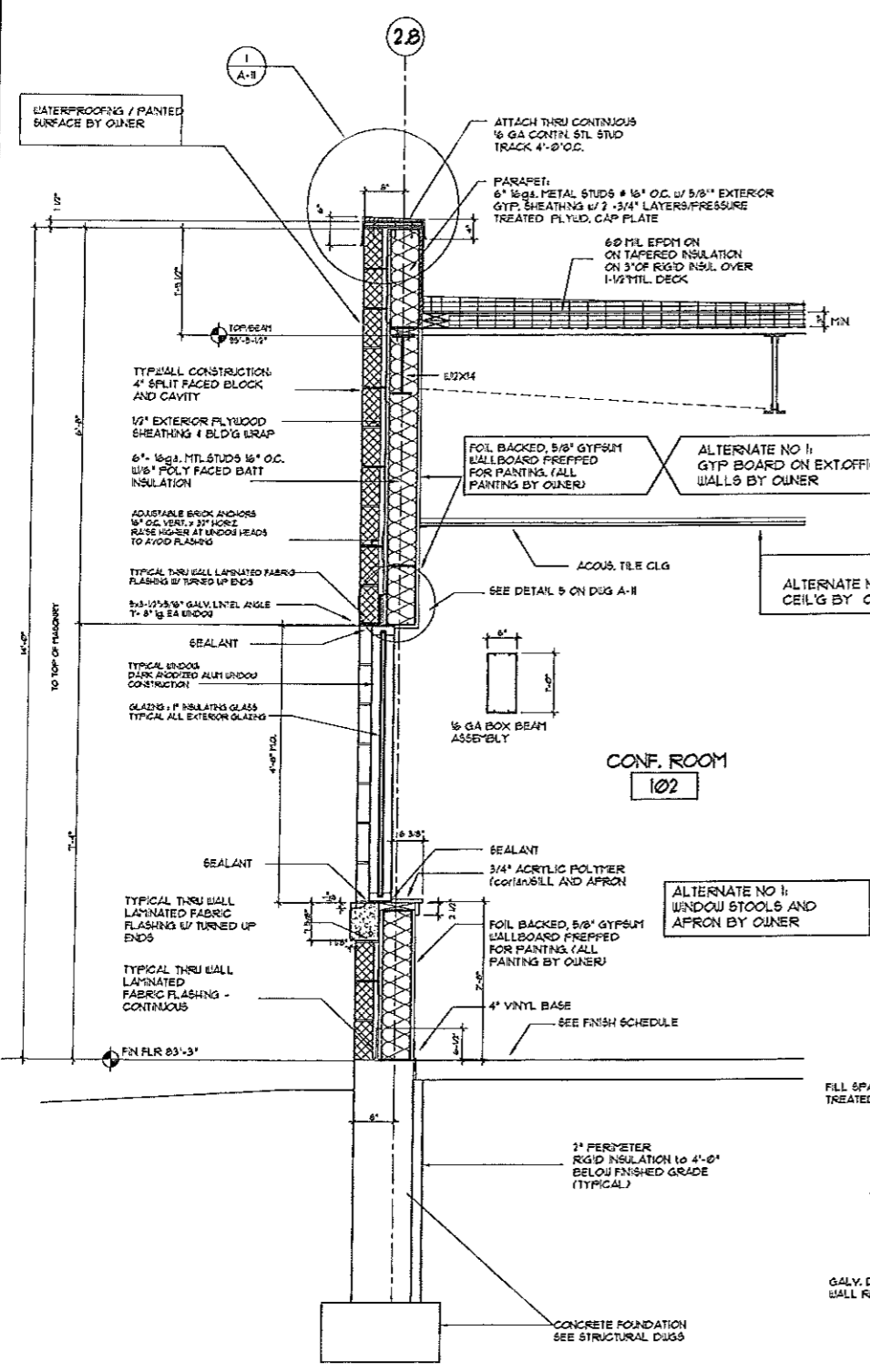
Architects
Theodore Logan and Sons
Office and Warehouse Facility
34 Blueberry Road, Portland, Maine

3/4" WALL SECTIONS

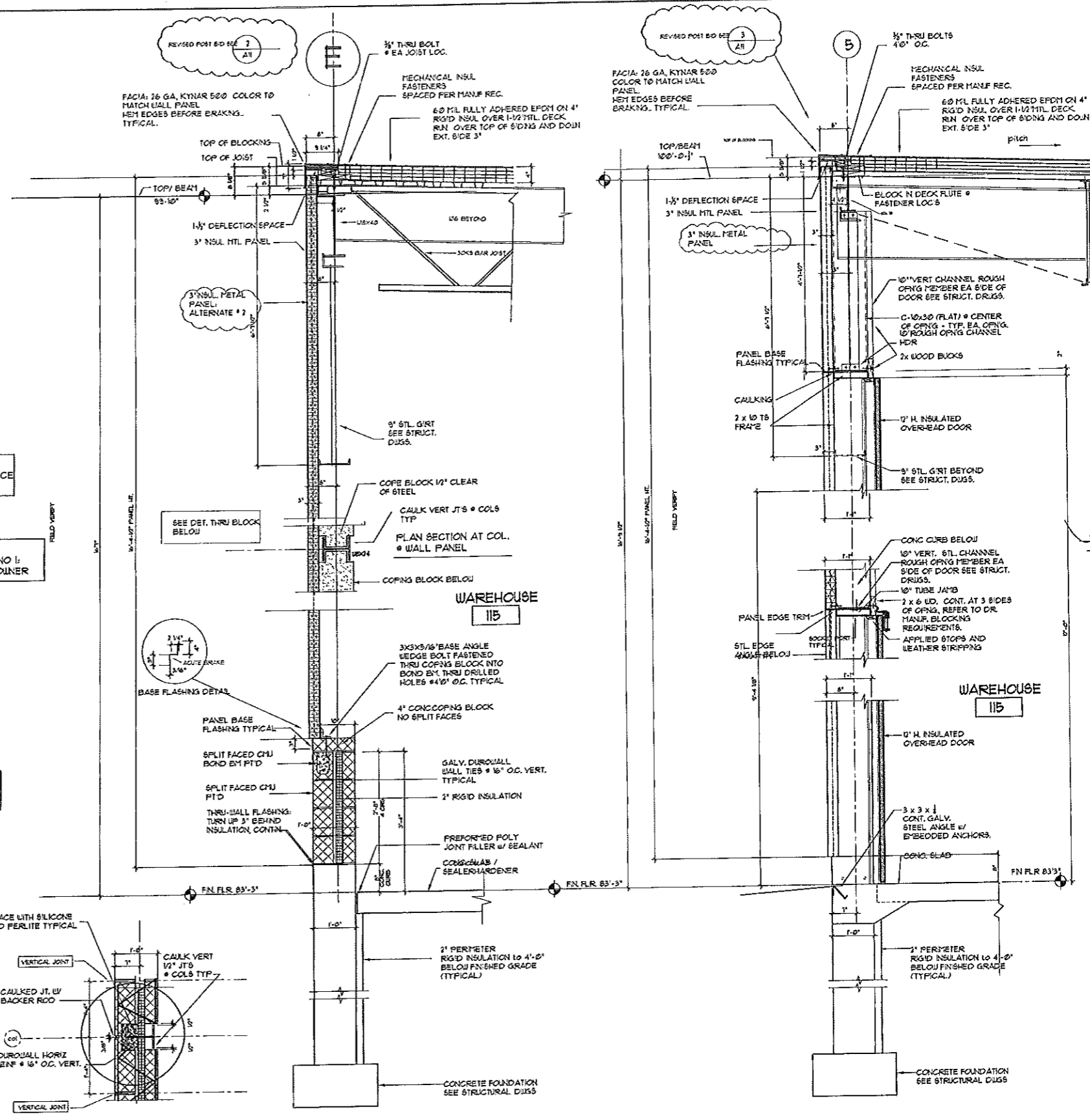
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DATE: 12-08
DESIGNED: JLD
DRAWN: JLD
CHECKED: JLD
APPROVED: JLD

PROJ: 010-001
SHT: 5
SHEET NO. A-6

NOTE: I KEEP TOPS OF MASONRY CAVITY WALL CAVITY COVERED WITH A COVERING PERVIOUS TO WATER UNTIL TOP OF WALL IS COVERED WITH ROOFING MEMBRANE AND FLASHING TYPICAL.



1 WALL SECTION THRU CONF RM WINDOW (OFFICE WINDOW 91M)
A-1 3/4" x 1'-0"

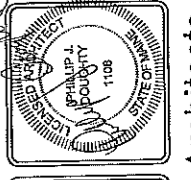


DET. THRU BLOCK @ COLUMN TYP.

5 WALL SECTION (@ FRONT WALL)
A1 3/4" x 1'-0"

4 WALL SECTION THRU 12' O.H. DOOR
A-1 3/4" x 1'-0"

DATE	APPROVED	DATE	APPROVED
DESIGNED	DATE	DESIGNED	DATE
DRAWN	DATE	DRAWN	DATE
CHECKED	DATE	CHECKED	DATE
APPROVED	DATE	APPROVED	DATE



THEODORE LOGAN AND SON
ARCHITECTS
OFFICE AND WAREHOUSE FACILITY
34 BLUBERRY ROAD, FORTLAND, MAINE

3/4" WALL SECTIONS
PHILLIP J. DOUGHTY ASSOCIATES, ARCHITECTS

PROJ 010-001 SHEET 8

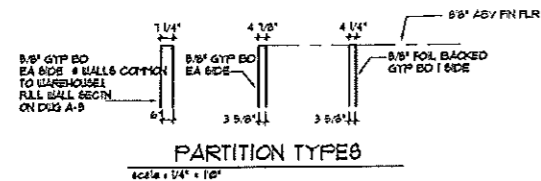
A-7

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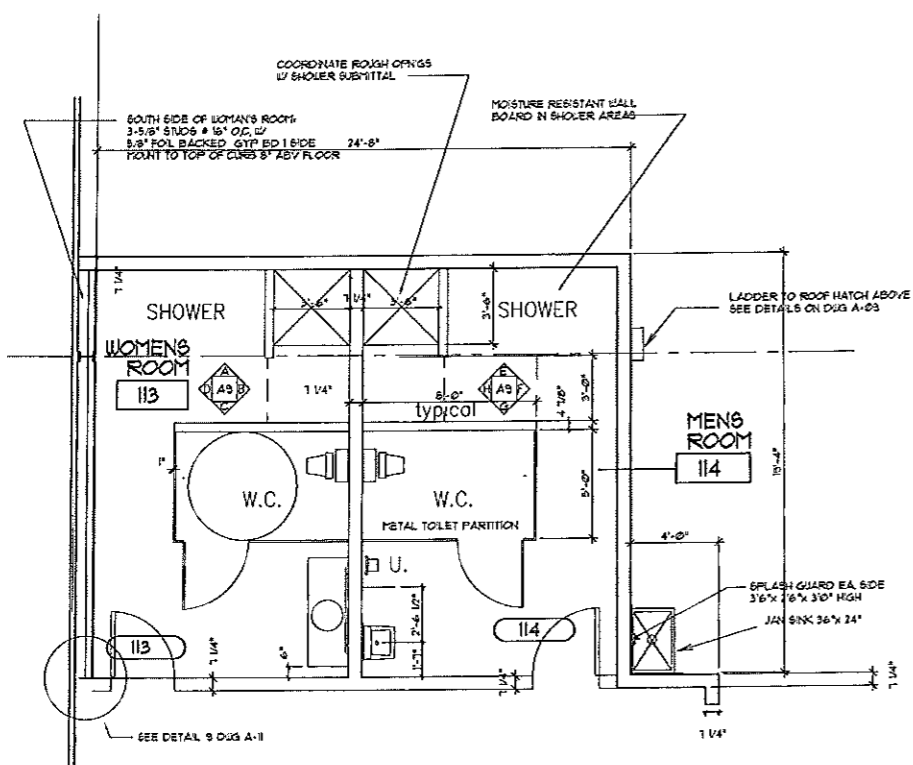
RM NO.	ROOM NAME	FLOOR		WALLS				CEILING		REMARKS
		MATERIAL	BASE	NORTH	SOUTH	WEST	EAST	MATERIAL	HT	
101	WAITING RM									101
102	CONFERENCE RM									102
103	STORAGE									103
104	OFFICE									104
105	OFFICE									105
106	DRAFTING ROOM									106
107	OFFICE									107
108	BREAK ROOM									108
109	CLOSET									109
110	UNISEX TOILET									110
111	CORRIDOR									111
112	AIRLOCK	CONC W/SEALER	4" VINYL	BLK PTD	BLK PTD	BLK PTD	BLK PTD	2X2 ACT FISURED	8'-0"	112
113	WOMEN'S ROOM	CONC PAINTED	4" VINYL	BLK PTD	GYP BD. PTD	BLK PTD	BLK PTD	2X2 ACT FISURED	8'-0"	113
114	MEN'S ROOM	CONC PAINTED	4" VINYL	BLK PTD	BLK PTD	BLK PTD	BLK PTD	2X2 ACT FISURED	8'-0"	114
115	WAREHOUSE	CONC W/SEALER		BLK PTD	BLK PTD	BLK PTD	BLK PTD	JOISTS/DECK PAINTED		115
116	FUTURE PAINT BOOTH									116
117	RECEIVING	CONC W/SEALER		BLK PTD	BLK PTD	BLK PTD	BLK PTD	JOISTS/DECK PAINTED		117
118	FUTURE PAINT AREA									118

NO ROOM FINISHES UNDER ALTERNATE #1

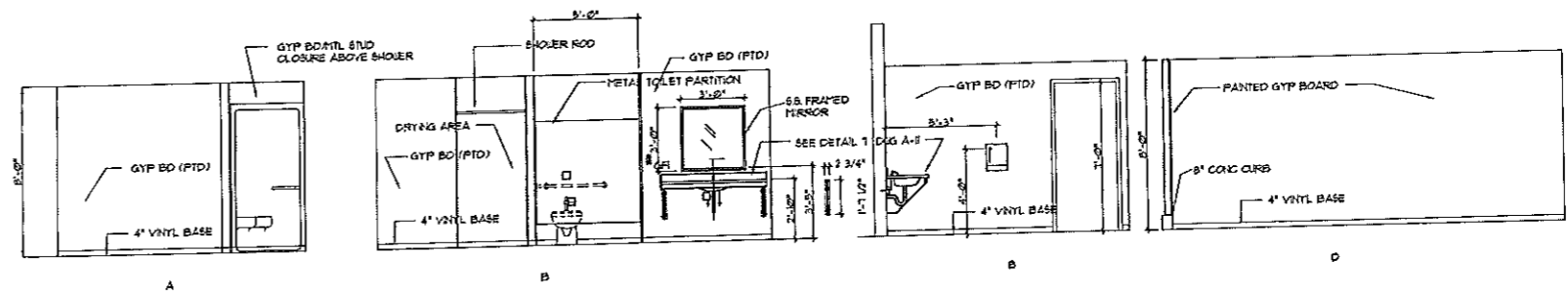
NOTES:
 MOISTURE RESISTANT CEILING TILE • SHOWER DRYING AREA
 ALL PAINTING BY OWNER
 ALL GYP. BD TAPED SPACKLED AND PREPARED FOR PAINTING



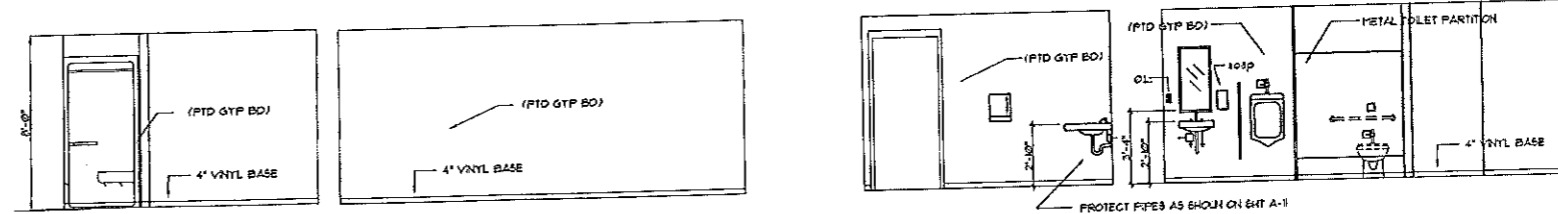
NOTE!
 UNDER THIS ALTERNATE, INSTALL PLUMBING
 ROUGH-INS FOR WATER SUPPLY, DRAINAGE,
 WASTE AND VENT



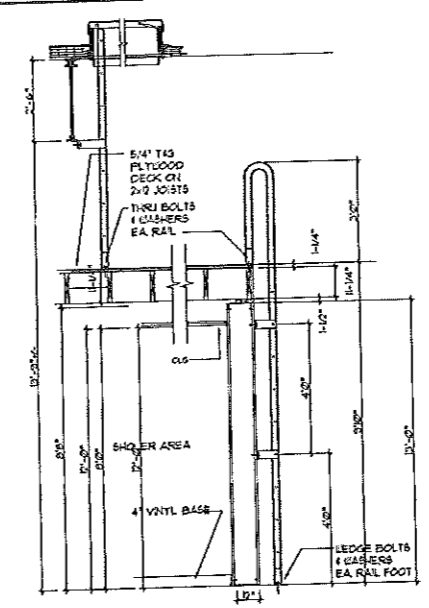
1 ENLARGED TOILET ROOM PLANS
 SCALE: 1/4" = 1'-0"



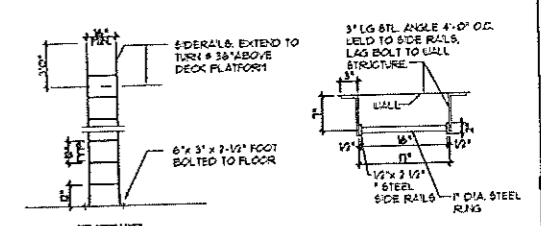
TOILET ELEVATIONS - WOMEN'S 113



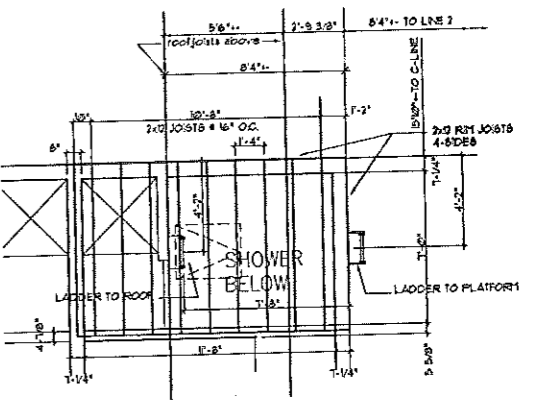
TOILET ELEVATIONS - MEN'S 114



2 WALL SECTION @ LADDER
 SCALE: 1/4" = 1'-0"

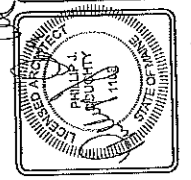


2 LADDER DETAILS
 SCALE: 1/4" = 1'-0"



LADDER ACCESS PLATFORM
 SCALE: 1/4" = 1'-0" ABOVE SHOWER

DATE	07-13-03
PROJ	ARCHITECT
DESIGNED	PHILIP J. DOUGHY ASSOC.
CHECKED	PHILIP J. DOUGHY
APPROVED	PHILIP J. DOUGHY
DRAWN	PHILIP J. DOUGHY
DATE	07-13-03
PROJ	ARCHITECT
DESIGNED	PHILIP J. DOUGHY ASSOC.
CHECKED	PHILIP J. DOUGHY
APPROVED	PHILIP J. DOUGHY
DRAWN	PHILIP J. DOUGHY



THEODORE LOGAN AND SON
 OFFICE AND WAREHOUSE FACILITY
 34 BLUBERRY ROAD, PORTLAND, MAINE
 FINISH SCHEDULE ALTERNATE #1

SCALE	AS SHOWN
DATE	MAR 15 03
DESIGNED	PHILIP J. DOUGHY
DRAWN	PHILIP J. DOUGHY
CHECKED	PHILIP J. DOUGHY
APPROVED	PHILIP J. DOUGHY

PROJ. SHEET NO. **A9-A**

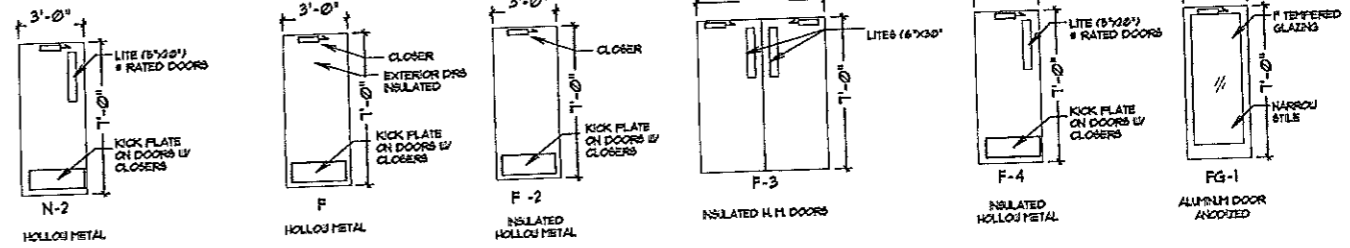
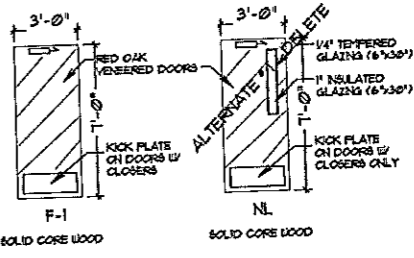
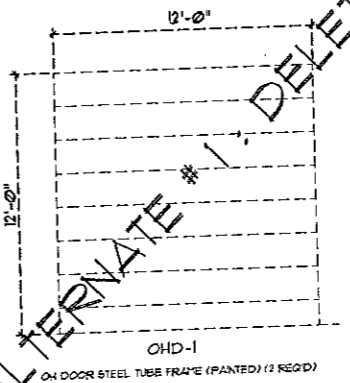
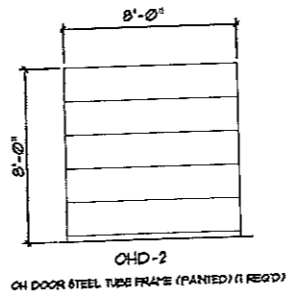
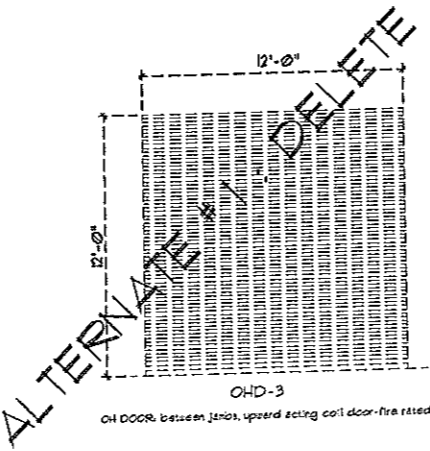
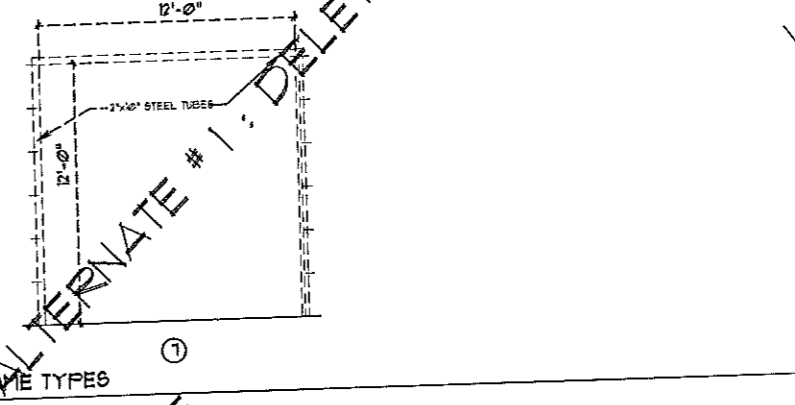
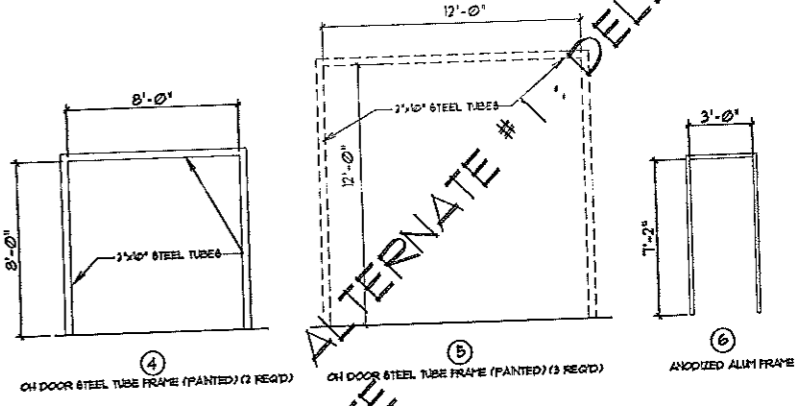
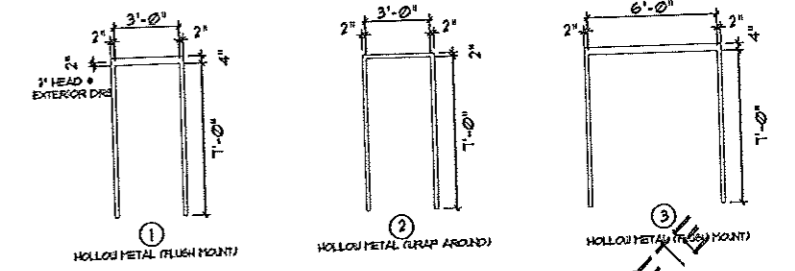
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DOOR AND FRAME SCHEDULE																			
DOOR NO.	ROOM FROM / TO	DOOR							FRAME					DETAILS			GENERAL		REMARKS
		SIZE	THK	TYP	MAT	FN	CLO	RATE	SIZE	TYP	MAT	FN	RATE	HEAD	JAMB	SILL	HUB	GLAZ	
101	EXTERIOR TO WAITING	3'-0" x 7'-0"	1-3/4"	FL-1	ALUM.	ALUM.	NO	NONE	2"	2	ALUM.	ALUM.					HUB-	YES	HARDWARE BY ALUM. DOOR CONTR. LOCK CYLINDERS; SEE HARDWARE SCHEDULE
102	CONFERENCE RM	3'-0" x 7'-0"	1-3/4"	NL	WOOD	STAIN/POLY	NO	NONE	2"	2	H.M.	PTD					HUB-	NO	DOOR DELETED UNDER THIS ALTERNATE
103	STORAGE	3'-0" x 7'-0"	1-3/4"	F-1	WOOD	STAIN/POLY	NO	NONE	2"	2	H.M.	PTD					HUB-	NO	DOOR DELETED UNDER THIS ALTERNATE
104	OFFICE	3'-0" x 7'-0"	1-3/4"	NL	WOOD	STAIN/POLY	NO	NONE	2"	2	H.M.	PTD					HUB-	NO	DOOR DELETED UNDER THIS ALTERNATE
105	OFFICE	3'-0" x 7'-0"	1-3/4"	NL	WOOD	STAIN/POLY	NO	NONE	2"	2	H.M.	PTD					HUB-	NO	DOOR DELETED UNDER THIS ALTERNATE
106	DRAFTING ROOM	3'-0" x 7'-0"	1-3/4"	NL	WOOD	STAIN/POLY	NO	NONE	2"	2	H.M.	PTD					HUB-	NO	DOOR DELETED UNDER THIS ALTERNATE
107	OFFICE	3'-0" x 7'-0"	1-3/4"	NL	WOOD	STAIN/POLY	NO	NONE	2"	2	H.M.	PTD					HUB-	NO	DOOR DELETED UNDER THIS ALTERNATE
108	BREAK ROOM	3'-0" x 7'-0"	1-3/4"	NL	WOOD	STAIN/POLY	NO	NONE	2"	2	H.M.	PTD					HUB-	YES	DOOR DELETED UNDER THIS ALTERNATE
109	CLOS	3'-0" x 7'-0"	1-3/4"	F-1	WOOD	STAIN/POLY	NO	NONE	2"	2	H.M.	PTD					HUB-	NONE	DOOR DELETED UNDER THIS ALTERNATE
110	UNISEX TOILET	3'-0" x 7'-0"	1-3/4"	F-1	WOOD	STAIN/POLY	YES	NONE	2"	2	H.M.	PTD					HUB-	NONE	DOOR DELETED UNDER THIS ALTERNATE
111	CORR III TO WHSE	3'-0" x 7'-0"	1-3/4"	F-4	WOOD	STAIN/POLY	YES	30 MIN.	MFG	1	H.M.	PTD					HUB-	NONE	
112A	CORR II TO USE	3'-0" x 7'-0"	1-3/4"	N-3	H.M.	PTD	YES	NONE	2"	1	H.M.	PTD					HUB-	YES	
112B	CORR II TO EXTERIOR	3'-0" x 7'-0"	1-3/4"	F-4	H.M.	PTD	YES	NONE	2"	1	H.M.	PTD					HUB-	NONE	
113	WOMEN'S ROOM	3'-0" x 7'-0"	1-3/4"	F-1	WOOD	STAIN/POLY	NO	NONE	2"	1	H.M.	PTD					HUB-	NONE	
114	MEN'S ROOM	3'-0" x 7'-0"	1-3/4"	F-1	WOOD	STAIN/POLY	YES	NONE	2"	1	H.M.	PTD					HUB-	NONE	
115A	WHSE TO EXTERIOR	3'-0" x 7'-0"	1-3/4"	F-4	H.M.	PTD	YES	NONE	2"	1	H.M.	PTD					HUB-	NONE	DOOR DELETED UNDER THIS ALTERNATE
115B	DRIVE THRU / WAREHOUSE	12' X 8'																	CHD-3 FIRE RATED OVERHEAD COLLING DOOR
116A	RECEIVING TO WHSE (PAIR)	3'-0" x 7'-0"	1-3/4"	F-3	H.M.	PTD	YES	NONE	2"	3	H.M.	PTD					HUB-	NONE	CONTROLLED CLOSER, NARROW LITE
116B	RECEIVING TO EXTERIOR	8' X 8'																	CHD-3 INSULATED OVERHEAD SECTIONAL DOOR
116C	DRIVE THRU TO EXTERIOR	12' X 8'																	INSULATED OVERHEAD SECTIONAL DOOR
116D	WAREHOUSE TO EXTERIOR	3'-0" x 7'-0"	1-3/4"	F-2	H.M.	PTD	YES	NONE	2"	1	H.M.	PTD					HUB-	NONE	DOOR DELETED UNDER THIS ALTERNATE
116E	DRIVE THRU TO EXTERIOR	12' X 8'																	INSULATED OVERHEAD SECTIONAL DOOR
116F	DRIVE THRU TO EXTERIOR	3'-0" x 7'-0"	1-3/4"	F-4	H.M.	PTD	YES	NONE	2"	2	H.M.	PTD					HUB-	NONE	DOOR DELETED UNDER THIS ALTERNATE
116G	DRIVE THRU TO WHSE	3'-0" x 7'-0"	1-3/4"	N-2	H.M.	PTD	YES	30 MIN.	2"	1	H.M.	PTD					HUB-	YES	DOOR DELETED UNDER THIS ALTERNATE
116H	SPRINKLER RM	3'-0" x 7'-0"	1-3/4"	F	H.M.	PTD	NO	NONE	2"	1	H.M.	PTD					HUB-	YES	
117-C	WAREHOUSE TO EXTERIOR	12' X 12'																	INSULATED OVERHEAD SECTIONAL DOOR
117-D	WHSE TO EXTERIOR	3'-0" x 7'-0"	1-3/4"	F-4	H.M.	PTD	YES	NONE	2"	1	H.M.	PTD					HUB-	NONE	

NOTES:

1. ALL DOORS IN MASONRY WALLS SHALL HAVE WELDED FRAMES
2. ALL DOORS IN LIGHT-GAGE WALL CONSTRUCTION SHALL HAVE K.D. FRAMES
3. H.M. = HOLLOW METAL
4. NL = NARROW LITE
5. F = FLUSH DOOR (H.M.)
6. F-1 = FLUSH DOOR (WOOD)
7. HUB = HARDWARE SET
8. S.C. = SOLID CORE
9. ALL EXTERIOR H.M. DOORS ARE INSULATED

NOTE DOORS 1 & 117-C & 117-D HAVE BEEN ADDED SINCE BIDS WERE REC'D



DOOR TYPES

ALTERNATE # 1

NO.	DATE	BY	CHKD.	APP'D.	REVISION
1	11-18-00	PLM	PLM	PLM	ISSUE FOR BIDDING
2	11-18-00	PLM	PLM	PLM	ISSUE FOR BIDDING
3	11-18-00	PLM	PLM	PLM	ISSUE FOR BIDDING
4	11-18-00	PLM	PLM	PLM	ISSUE FOR BIDDING

THEODORE LOGAN AND SONS
OFFICE AND WAREHOUSE FACILITY
34 BLUEBERRY ROAD, PORTLAND, MAINE

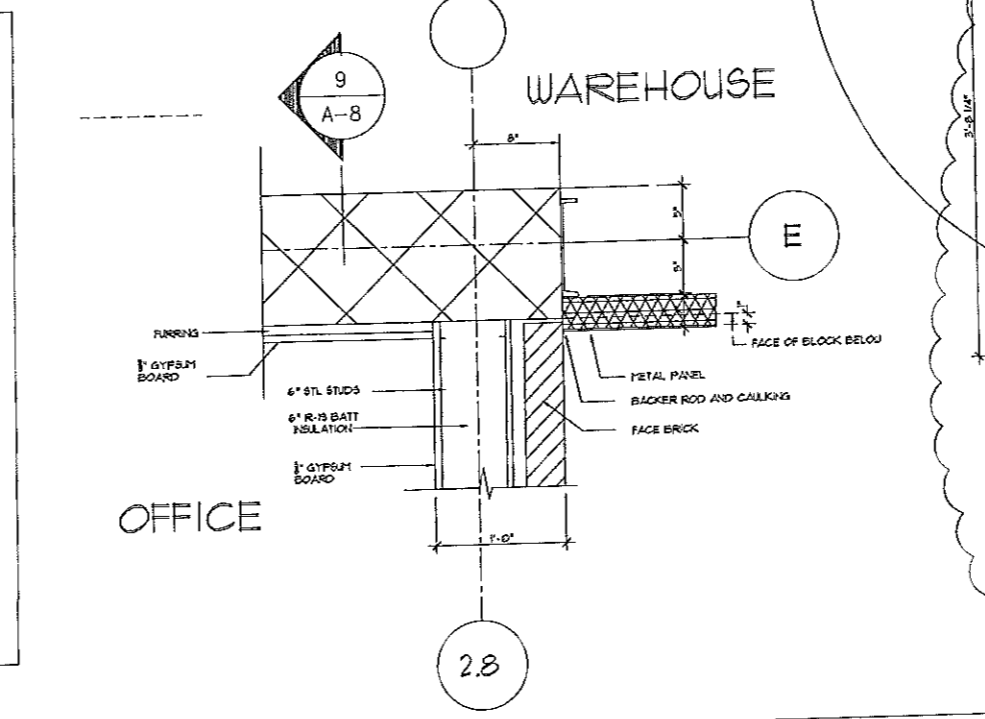
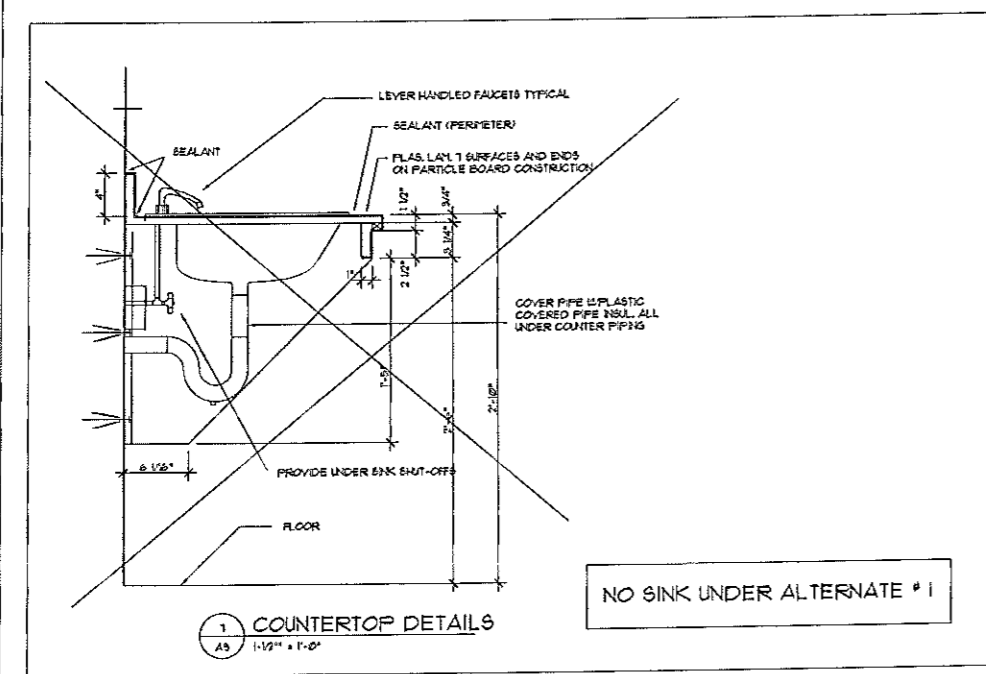
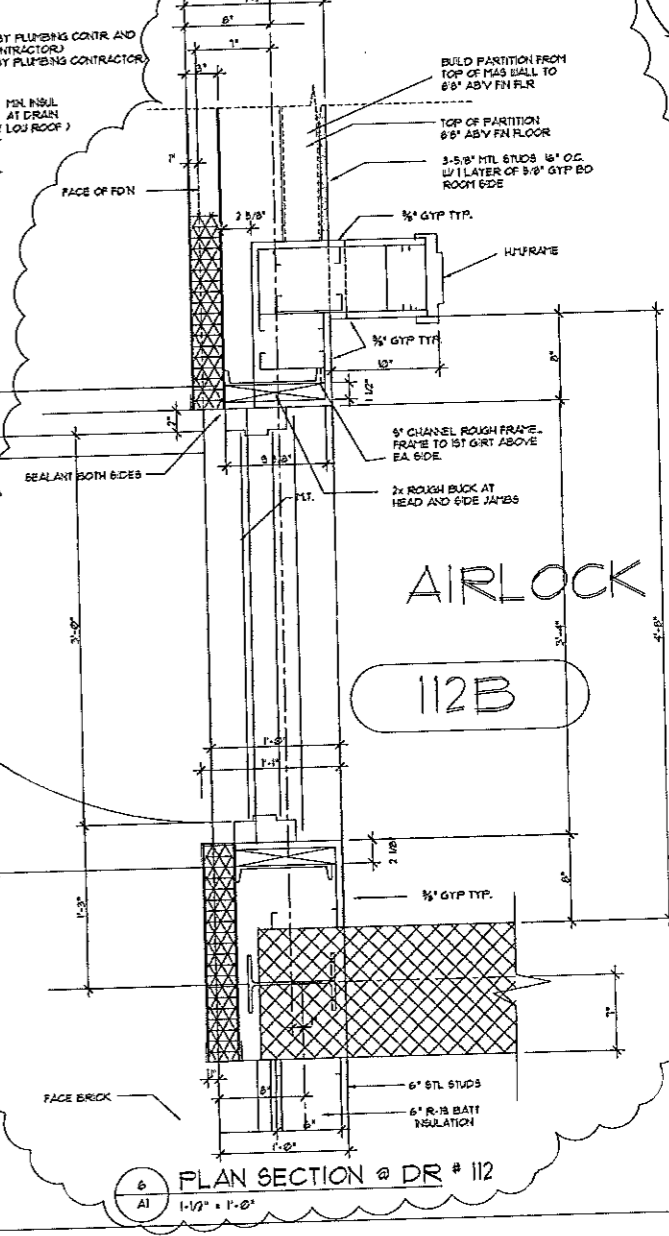
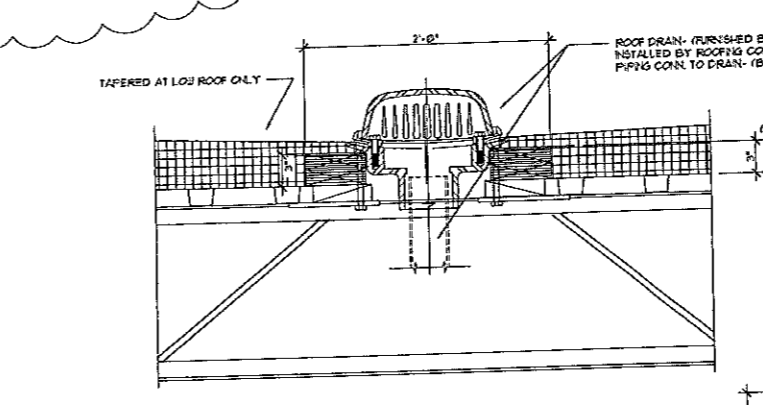
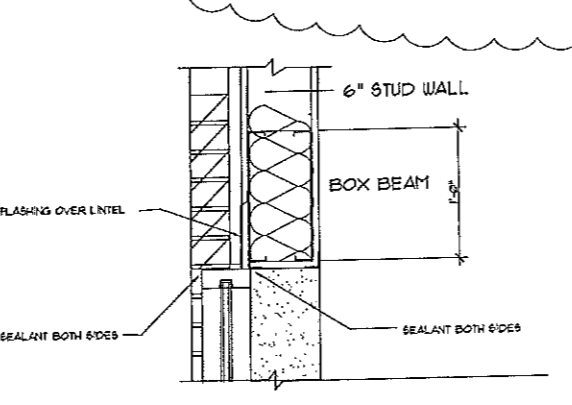
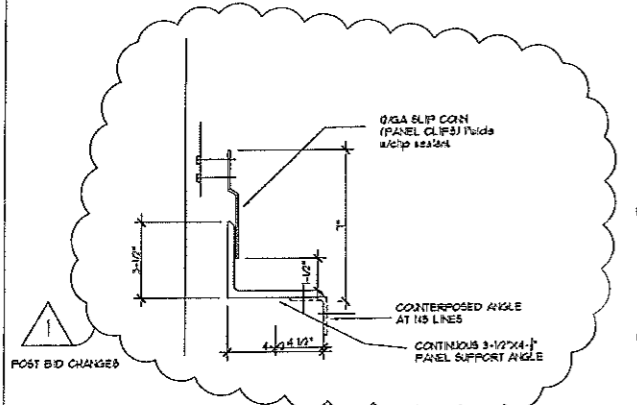
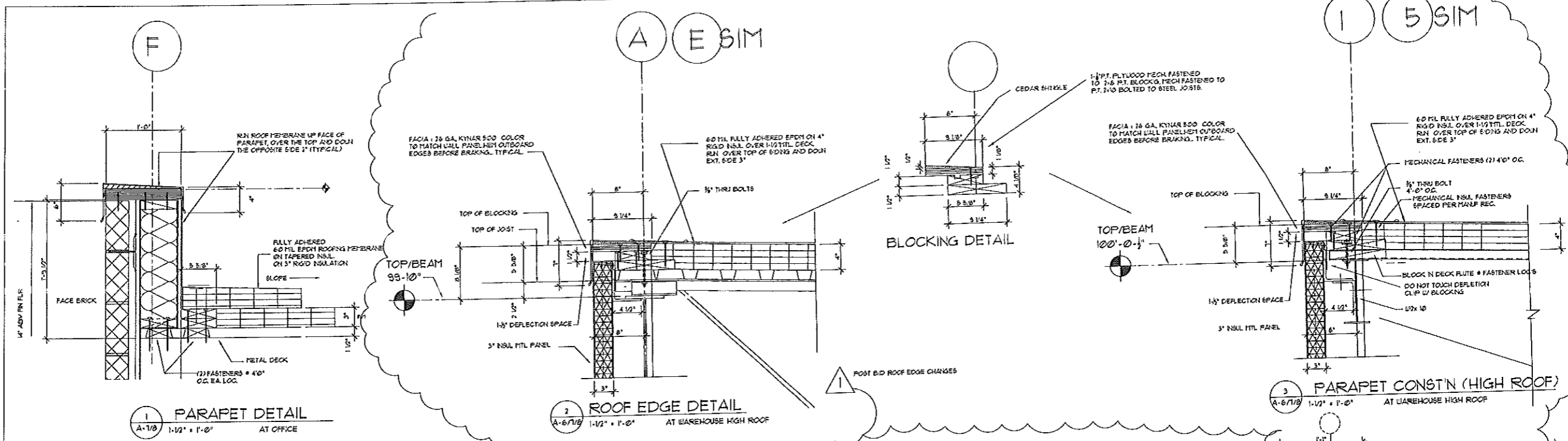
DOOR AND FRAME SCHEDULE

SCALE: AS SHOWN
DATE: 11-18-00
DESIGNED BY: PLM
DRAWN BY: PLM
CHECKED BY: PLM
APPROVED BY: PLM

PROJ. NO. 010-001
SHEET NO. 9/11

A-10-

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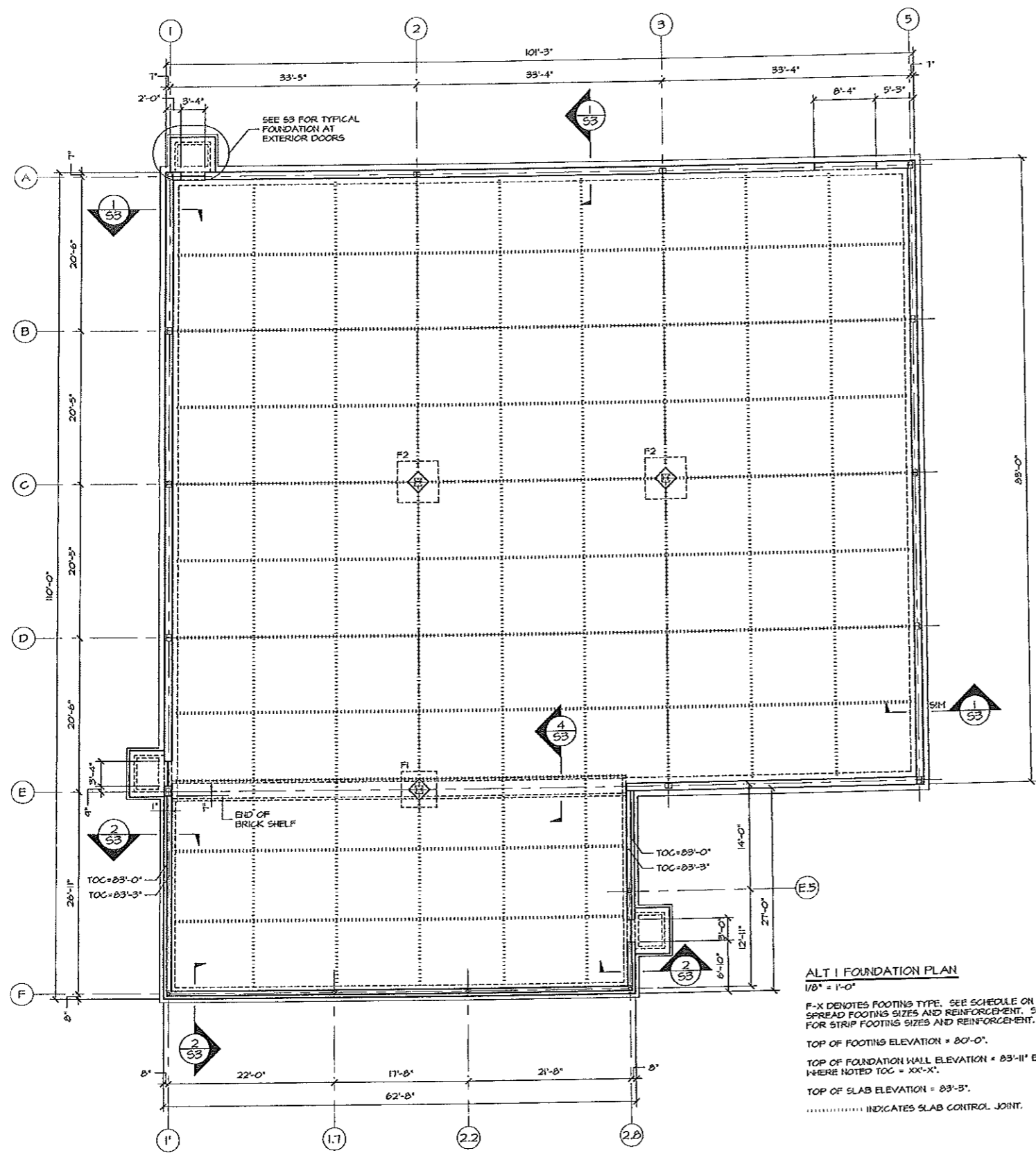
DATE	7-11-03
DESIGNED BY	PHILIP J. COONEY
DRAWN BY	PHILIP J. COONEY
CHECKED BY	PHILIP J. COONEY
APPROVED BY	PHILIP J. COONEY

POST BID CHANGES PER CHANGE DIRECTION ISSUED FOR BID / CONSTRUCTION

THEODORE LOGAN AND SON
OFFICE AND WAREHOUSE FACILITY
34 BLUEBERRY ROAD, PORTLAND, MAINE

SCALE: AS NOTED
DATE: FEB 2003
SHEET NO. 002-013
SHT. NO. A-11

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ALT 1 FOUNDATION PLAN
 1/8" = 1'-0"
 F-X DENOTES FOOTING TYPE. SEE SCHEDULE ON THIS SHEET FOR SPREAD FOOTING SIZES AND REINFORCEMENT. SEE SECTIONS FOR STRIP FOOTING SIZES AND REINFORCEMENT.
 TOP OF FOOTING ELEVATION = 80'-0".
 TOP OF FOUNDATION WALL ELEVATION = 83'-11" EXCEPT WHERE NOTED TOC = XX'-X".
 TOP OF SLAB ELEVATION = 83'-3".
 INDICATES SLAB CONTROL JOINT.

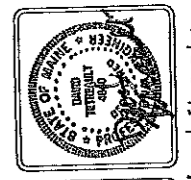
- GENERAL NOTES:**
- THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO THESE GENERAL NOTES.
 - STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, EQUIPMENT, SITE AND SHOP DRAWINGS. CONSULT THESE DRAWINGS FOR LOCATIONS AND DIMENSIONS OF CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS AND OTHER DETAILS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
 - ALL DIMENSIONS, ELEVATIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. THE CONTRACTOR SHALL DETERMINE ALL NECESSARY DIMENSIONS, ELEVATIONS AND CONDITIONS REQUIRED FOR THE FABRICATION AND ERECTION OF THE BUILDING'S COMPONENTS PRIOR TO THE SUBMISSION OF SHOP DRAWINGS. ALL SHOP DRAWINGS SHALL ACCURATELY REFLECT THE GENERAL CONTRACTOR'S VERIFICATION OF FIELD CONDITIONS.
 - SHOP DRAWINGS SHALL BE ORIGINAL DRAWINGS PREPARED BY THE GENERAL CONTRACTOR OR A SUBCONTRACTOR. REPRODUCTION OF THE STRUCTURAL CONTRACT DOCUMENTS FOR USE AS SHOP DRAWINGS IS NOT ACCEPTABLE.
 - THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE GENERAL CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCING TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORINGS, SHEETINGS, TEMPORARY BRACING, GUTS AND/OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE GENERAL CONTRACTOR AFTER COMPLETION OF THE BUILDING.
 - SECTIONS AND DETAILS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL AND USED FOR SIMILAR CONDITIONS.
 - THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL FOLLOW ALL APPLICABLE FEDERAL, STATE AND MUNICIPAL REGULATIONS INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.

- DESIGN CRITERIA:**
- BUILDING CODE: 1999 BOCA NATIONAL BUILDING CODE
- I. DESIGN LOADS:**
- A. SNOW LOAD:**
 - GROUND SNOW LOAD, P_g 60 PSF
 - SNOW EXPOSURE FACTOR 0.7
 - SNOW LOAD IMPORTANCE FACTOR 1.0
 - FLAT ROOF SNOW LOAD 42 PSF
 - B. WIND LOADS:**
 - MAIN WIND-FORCE RESISTING SYSTEM
 - BASIC WIND SPEED, V 85 MPH
 - IMPORTANCE FACTOR, I 1.0
 - BASIC VELOCITY PRESSURE, P_v 18.5 PSF
 - EXPOSURE C
 - COMPONENTS AND CLADDING C
 - EXPOSURE C
 - D. SEISMIC DESIGN DATA:**
 - PEAK VELOCITY RELATED ACCELERATION, A_v 0.11
 - PEAK ACCELERATION, A_g 0.11
 - SEISMIC HAZARD EXPOSURE GROUP I
 - SEISMIC PERFORMANCE CATEGORY C
 - SOIL PROFILE TYPE SI
 - SITE SOIL COEFFICIENT, S 1.0
 - BASIC STRUCTURAL SYSTEM CONCENTRICALLY BRACED FRAME
 - RESPONSE MODIFICATION FACTOR, R 5.0
 - DEFLECTION AMPLIFICATION FACTOR, C_d 4.5
 - ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F1	4'-4" x 4'-4" x 1'-0"	6 #5 EN. BOT.
F2	5'-6" x 5'-6" x 1'-0"	8 #5 EN. BOT.

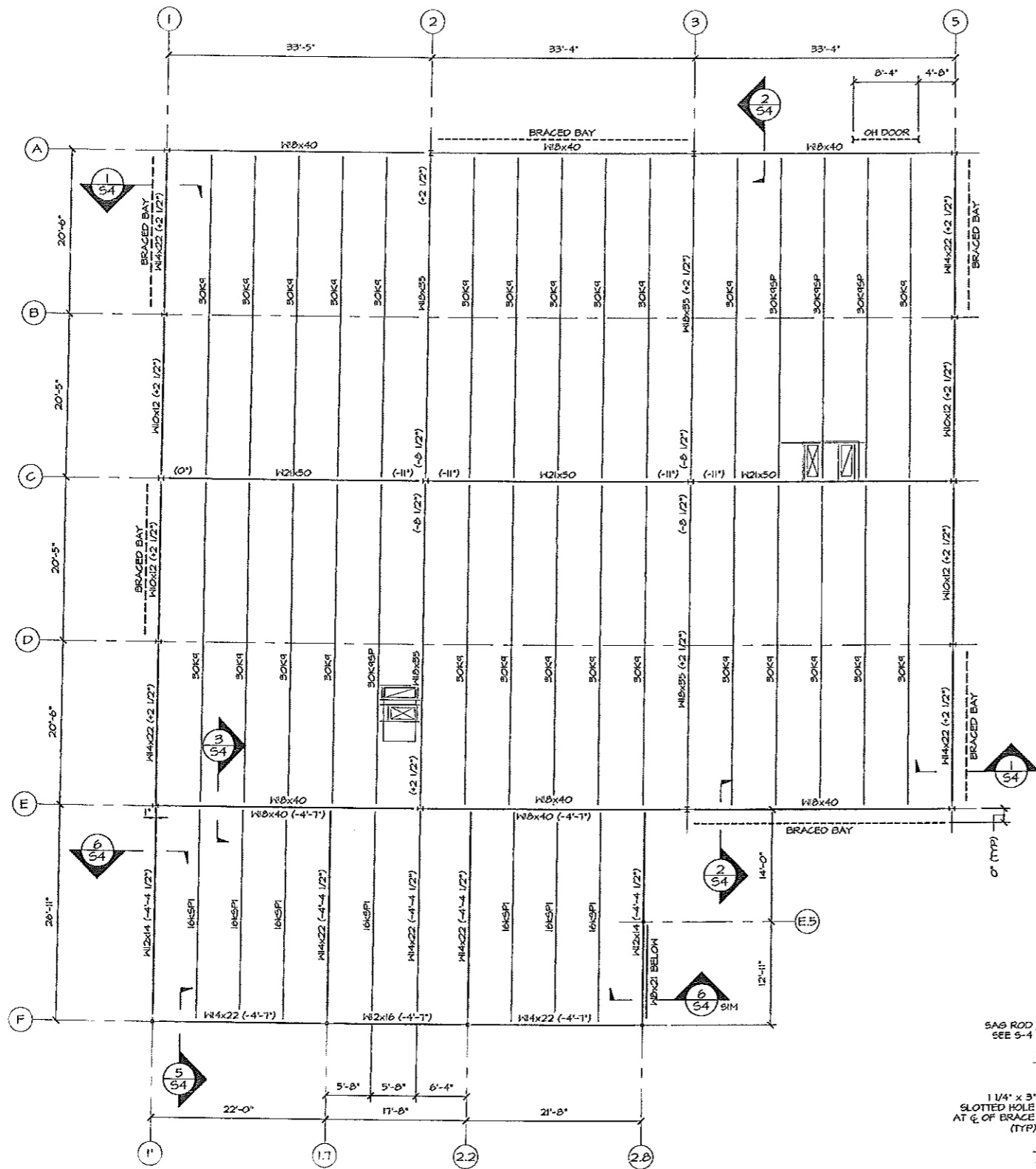
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NO.	REVISION	DATE	BY	APP'D
0		FEB 28, 2003		

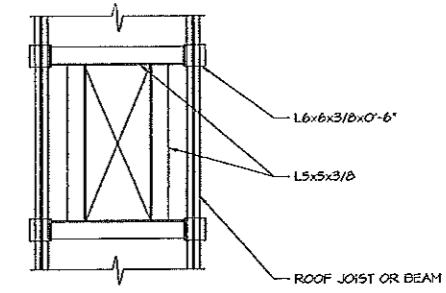


FOUNDATION PLAN
 THEODORE LOGAN AND SON
 Phillip J. Doughty Assoc. Architects
 207.781.5346
 225 U.S. ROUTE ONE, FALMOUTH, MAINE 04105

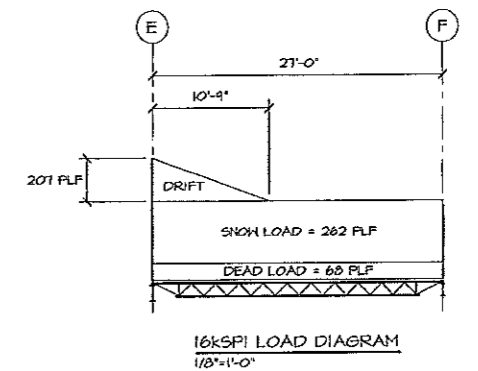
SCALE: 1/8" = 1'-0"
 DATE: FEB 6, 2003
 DESIGNED: DJT
 DRAWN: DJT
 CHECKED: DJT
 APPROVED: DJT
 PROJ: 002-013
 SHEET NO. S-1A



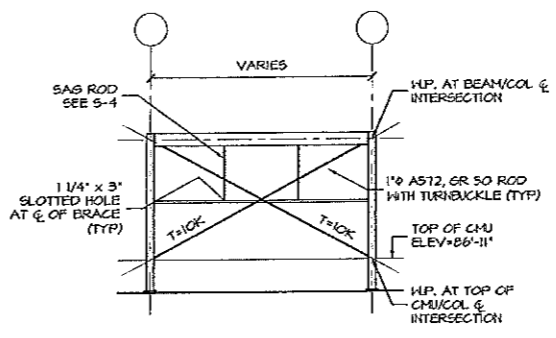
LINTEL SCHEDULE	
ROUGH OPENING	LINTEL SIZE
UP TO 3'-4"	GALVANIZED L4x3 1/2x5/16 LLV
BRICK VENEER	L4x3 1/2x5/16 LLV
3'-5" TO 6'-4"	GALVANIZED L5x3 1/2x5/16 LLV
BRICK VENEER	L5x3 1/2x5/16 LLV
UP TO 6'-4"	8" LINTEL BLOCK 18TH (2) #5
8" CMU	8" LINTEL BLOCK 18TH (2) #5
UP TO 12'-0"	16" LINTEL BLOCK 18TH (2) #6
12" CMU	16" LINTEL BLOCK 18TH (2) #6



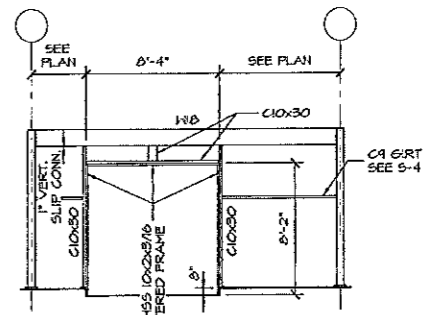
TYPICAL ROOFTOP OPENING FRAME
NO SCALE
COORDINATE SIZE AND LOCATION WITH EQUIPMENT



16kSPF LOAD DIAGRAM
1/8"=1'-0"



BRACED BAY ELEVATION
1/8"=1'-0"



OH DOOR FRAME ELEVATION
1/8"=1'-0"

DIMENSIONS ARE TO INSIDE FACES OF C10 MEMBERS

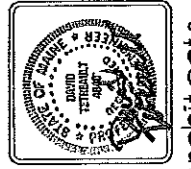
ALT I ROOF FRAMING PLAN
1/8"=1'-0"

TOP OF STEEL ELEVATION = 41'-10"
UNLESS NOTED (X-X).

28K45P AND 30K45P STEEL JOISTS SHALL BE DESIGNED FOR A DEAD LOAD OF 12 PSF PLUS A SNOW LOAD OF 42 PSF PLUS THE 500 POUND CONCENTRATED LOADS LOCATED ANYWHERE ALONG THE TOP CHORD.

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REVISION	DESCRIPTION	DATE	BY	APP'D
0	FOR CONSTRUCTION			



ROOF FRAMING PLAN

THEODORE LOGAN AND SON

Philip J. Doughty Assoc. Architects
Architects 362 U.S. Route One, Falmouth, Maine 04105 • 207. 761. 5346

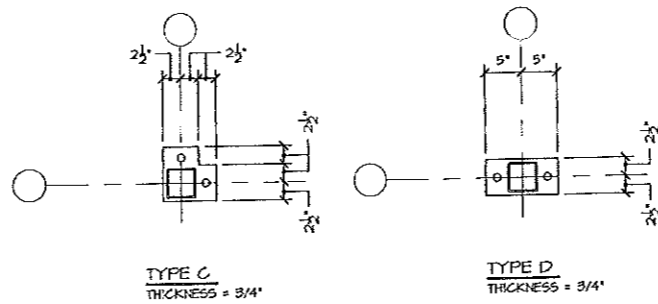
SCALE: 1/8"=1'-0"
DATE: JAN 21, 2003
DESIGNED: DJT
DRAWN: DJT
CHECKED: DJT
APPROVED:

PROJ: 002-013 SHEET OF

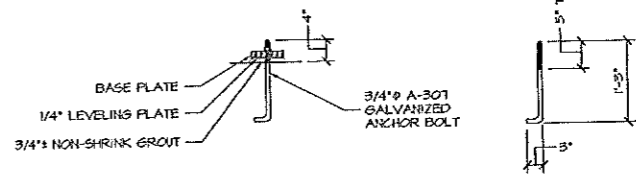
SHEET NO. S-2A

COLUMN SCHEDULE					
COLUMN MARK	SIZE	BOT. OF BASE PL. ELEV.	BASE PL. TYPE	TOP OF COLUMN ELEV.	COMMENTS
A-1	H8x21	84'-0"	B	100'-0 1/2"	
A-2	H8x24	84'-0"	B	100'-0 1/2"	
A-3	H8x24	84'-0"	B	100'-0 1/2"	
A-4	H8x24	84'-0"	B	100'-0 1/2"	OMIT AT ALT 1
A-5	H8x21	84'-0"	B	100'-0 1/2"	
B-1	H8x18	84'-0"	B	100'-0 1/2"	
B-4	H8x18	82'-8"	A	99'-1"	OMIT AT ALT 1
B-5	H8x18	84'-0"	B	100'-0 1/2"	
C-1	H8x24	84'-0"	B	100'-0 1/2"	
C-2	H8x24	82'-8"	A	99'-1 1/2"	
C-3	H8x21	82'-8"	A	100'-0 1/2"	
C-4	H8x24	82'-8"	A	99'-1 1/2"	OMIT AT ALT 1
C-5	H8x24	84'-0"	B	100'-0 1/2"	
D-1	H8x18	84'-0"	B	100'-0 1/2"	
D-4	H8x18	82'-8"	A	99'-1"	OMIT AT ALT 1
D-5	H8x18	84'-0"	B	100'-0 1/2"	
E-1	H8x18	84'-0"	B	100'-0 1/2"	
E-2	H8x21	82'-8"	A	100'-0 1/2"	
E-3	H8x24	84'-0"	B	100'-0 1/2"	
E-4	H8x24	84'-0"	B	100'-0 1/2"	OMIT AT ALT 1
E-5	H8x21	84'-0"	B	100'-0 1/2"	
E5-2B	H554x4x01875*	83'-4"	D	94'-5 5/8"	
F-1*	H554x4x01875*	83'-4"	C	95'-5 1/2"	
F-1.7	H554x4x01875*	83'-4"	D	95'-5 1/2"	
F-2.2	H554x4x01875*	83'-4"	D	95'-5 1/2"	
F-2B	H554x4x01875*	83'-4"	C	95'-5 1/2"	

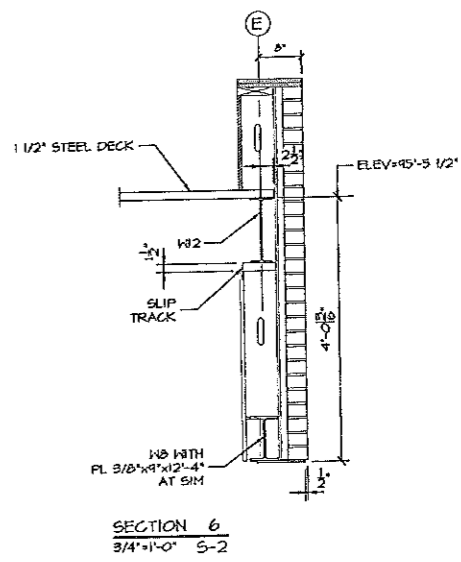
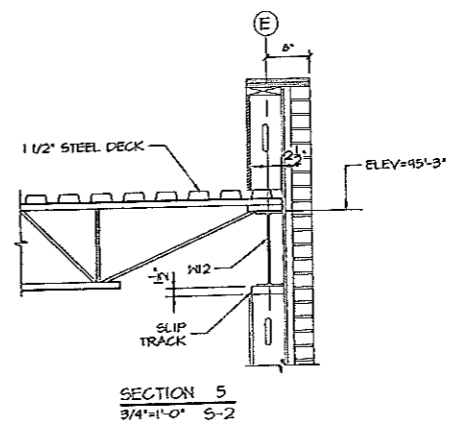
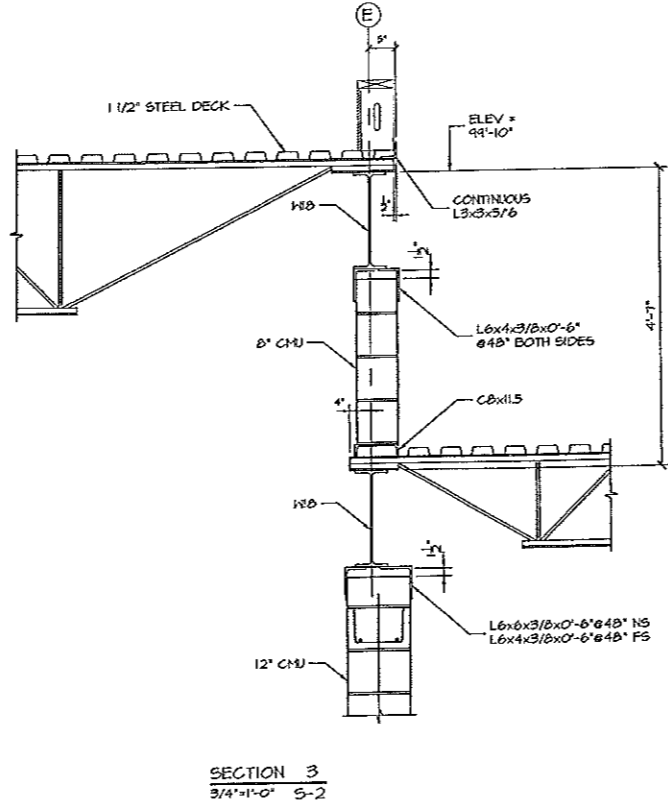
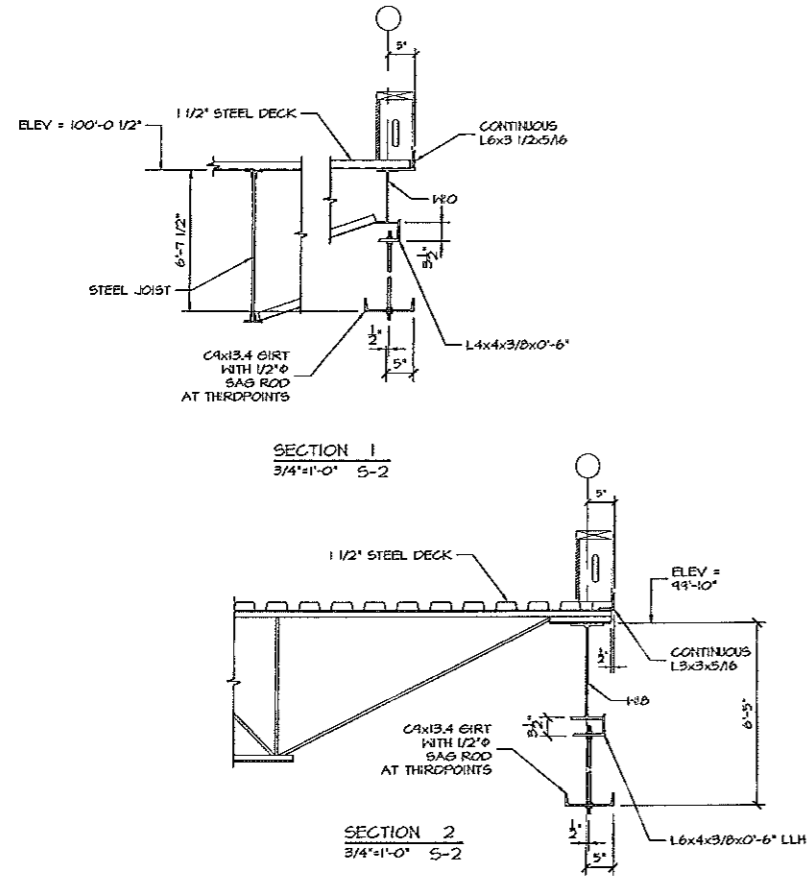
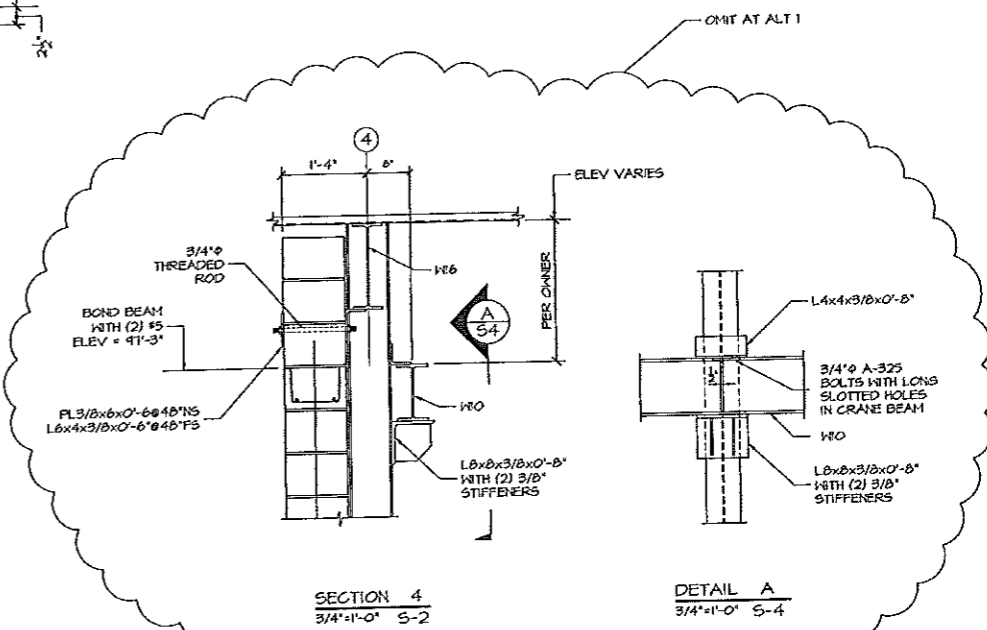
COLUMNS NOTED * ARE STEEL POSTS AS DEFINED BY OSHA STEEL ERECTION STANDARDS. BASE ANCHORAGE FOR STEEL POSTS ARE NOT DESIGNED TO CARRY ECCENTRIC ERECTION LOADS.



BASE PLATE DETAILS
1"=1'-0"
HOLE EDGE DISTANCE = 1 1/2"
HOLE DIAMETER = 1 1/8"



TYPICAL ANCHOR BOLT DETAILS
3/4"=1'-0"



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PROJ. 002-013 SHEET NO. S-4

SCALE: AS NOTED DATE: JAN 29, 2022 DESIGNED: JAT DRAWN: JAT CHECKED: JAT APPROVED: JAT

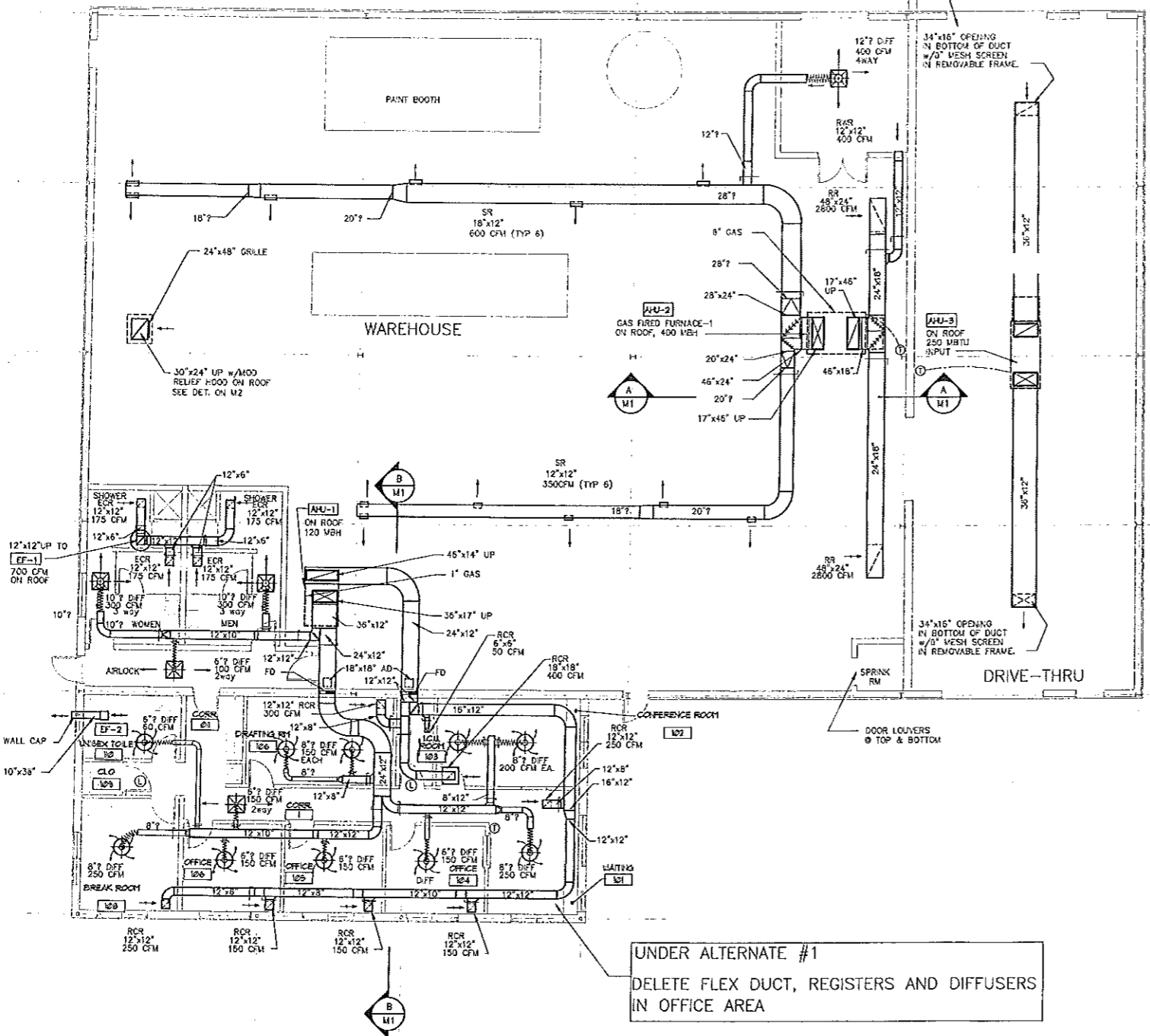
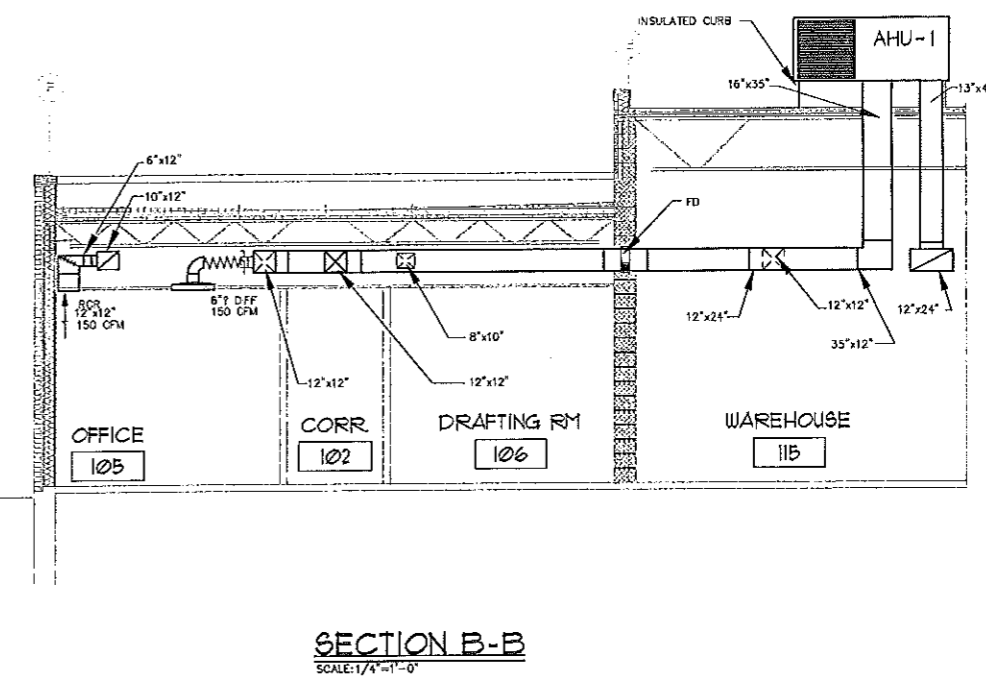
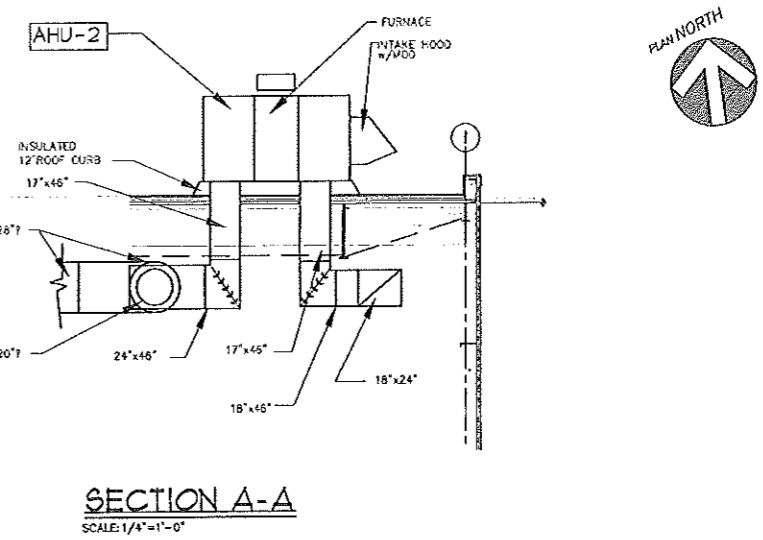
THEODORE LOGAN AND SON

PHILIP J. DOUGHTY ASSOC. ARCHITECTS
362 U.S. Route One, Falmouth, Maine 04105 • 207. 781. 5346

FOR CONSTRUCTION DESCRIPTION REVISION

DATE	DATE	DATE	DATE
APPROVED	APPROVED	APPROVED	APPROVED

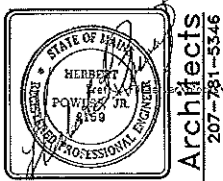
UNDER ALTERNATE #1
DELETE AHU-3 AND DUCTWORK



UNDER ALTERNATE #1
DELETE FLEX DUCT, REGISTERS AND DIFFUSERS
IN OFFICE AREA



NO.	REV.	ISSUED FOR BID/CONSTRUCTION	DESCRIPTION	DATE
0				2/22/03



MECHANICAL FLOOR PLAN
SECTION A-A & B-B
THEODORE LOGAN AND SON
RDA • Phillip J. Doughty Associates
Falmouth, ME. 04105
364 U.S. Route One
207-781-5346

PROJ.	020001	SHT	of
DWG. NO.			

M1

MECHANICAL SYSTEMS ENGINEERS
ROYAL RIVER CENTER, UNIT #10
10 FOREST FALLS DRIVE
YARMOUTH, MAINE 04096
VOICE: (207) 848-1441
FAX: (207) 848-1443
mechsys@maine.rr.com
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C:\PROJECTS\020-001\MECHANICAL\BALT\CONSULT\MECHSYSTEMS\ENGR\PHIPSETL-HVACFL10216-PLNG.dwg, L:\11\2003_3\22\23.PK

GENERAL NOTES

- HVAC Contractor shall coordinate work with all other trades.
- All piping and ductwork shall be run concealed and on warm side of building insulation unless noted otherwise.
- All ductwork is shown diagrammatically. Exact locations are to be determined in the field.
- All duct sizes indicated are sheet metal (outside) dimensions.
- All cutting and patching shall be provided by the General Contractor.
- All square elbows in ductwork SHALL HAVE airfoil turning vanes.
- Refer to reflected ceiling plan for exact location of all ceiling registers, grilles and diffusers.
- All fire dampers and motor operated dampers shall have access doors as large as possible up to 12"x12".
- All dimensions are approximate and are to be field verified.

AIR HANDLING UNIT SCHEDULE

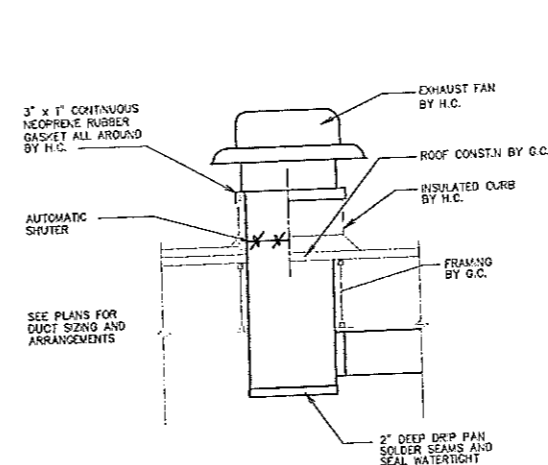
TAG	AREA SERVED	KW	CFM	SP	RPM	HP	ELECTRIC	HEATING GAS				COOLING			POWER EXHAUST			FURNACE EXHAUSTER			REMARKS
								STAGE	MBH		EDB	EWB	SEN MBH	TOT MBH	HP	RPM	ELECTRIC	HP	RPM	ELECTRIC	
									INPUT	OUTPUT											
AHU-1	OFFICES	6.8	2500	1.25	1154	2.0	208/60/3?	2	205/150	166/122	84	67	65.8	72.5	3/4	1100	208/60/3?	1/20	3350	120/60/1?	
AHU-2	WAREHOUSE	N/A	6000	1.0	1040	3.0	208/60/3?	1	400	308								1/20	3350	120/60/1?	DELETE UNDER
AHU-3	DRIVE-THRU	N/A	2700	1.0	965	10	208/60/3?	1	250	197.5											

FAN SCHEDULE

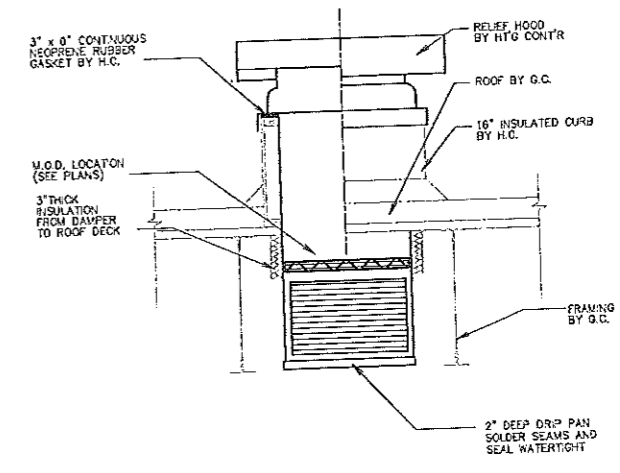
TAG	AREA SERVED	TYPE	CFM	SP	RPM	SONES	HP	ELECTRIC	REMARKS
EF-1	TOILET 113,114	ROOF CENTRIFUGAL	700	.5	1100	5.6	1/4	120/60/1?	
EF-2	TOILET 110	CEILING IN-LINE	100	.25	1500	-	100 watts	120/60/1?	

SYMBOLS AND ABBREVIATIONS

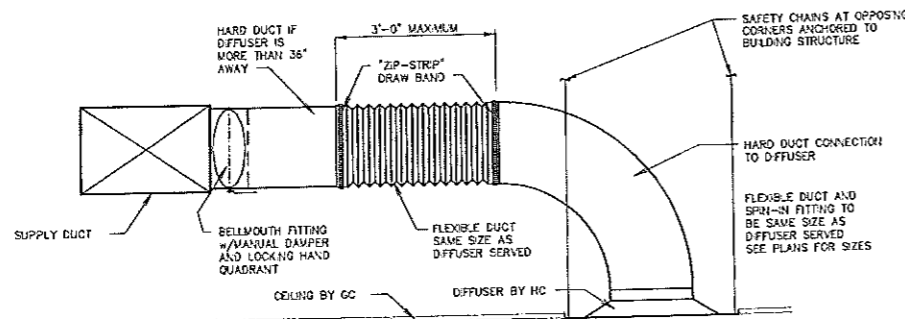
AC	AIR CONDITIONING	LAT	LEAVING AIR TEMPERATURE	⊕	THERMOSTAT
AD	ACCESS DOOR	LDB	LEAVING DRY BULB	⊕	MANUAL DAMPER
AF	ABOVE FINISH FLOOR	MOO	MOTOR OPERATED DAMPER	⊕	FLEXIBLE DUCT
AHU	AIR HANDLING UNIT	NTS	NOT TO SCALE	⊕	LAY-IN DIRECTIONAL DIFFUSER
AP	ACCESS PANEL	OA	OUTDOOR AIR	⊕	LAY-IN ROUND DIFFUSER
APD	AIR PRESSURE DROP	PC	PLUMBING CONTRACTOR	⊕	SUPPLY AIR DUCT
ATC	AUTOMATIC TEMP. CONTROL	R	RETURN	⊕	RETURN / RELIEF AIR DUCT
BD	BACKDRAFT DAMPER	RA	RETURN AIR	⊕	
BJ	BAR JOIST	RCR	RETURN CEILING REGISTER	⊕	
DIFF	DIFFUSER	RWR	RETURN WALL REGISTER	⊕	
EAT	ENTERING AIR TEMPERATURE	RWV	RESET WATER VALVE	⊕	
EC	ELECTRICAL CONTRACTOR	S	SUPPLY	⊕	
ECR	EXHAUST CEILING REGISTER	SA	SUPPLY AIR	⊕	
EDB	ENTERING DRY BULB	SC	SITE CONTRACTOR	⊕	
EF	EXHAUST FAN	SF	SUPPLY FAN	⊕	
ER	EXHAUST REGISTER	SP	STATIC PRESSURE	⊕	
ESP	EXTERNAL STATIC PRESSURE	SR	SUPPLY REGISTER	⊕	
EWB	ENTERING WET BULB	T	THERMOMETER	⊕	
FC	FLEXIBLE CONNECTOR	TC	TEMPERATURE CONTROL	⊕	
FD	FIRE DAMPER	TCP	TEMPERATURE CONTROL PANEL	⊕	
FV	FACE VELOCITY	TSP	TOTAL STATIC PRESSURE	⊕	
GC	GENERAL CONTRACTOR	TSTAT	THERMOSTAT	⊕	
HC	HEATING CONTRACTOR	TV	TURNING VANE	⊕	
L	LOUVER	UC	UNDERCUT	⊕	



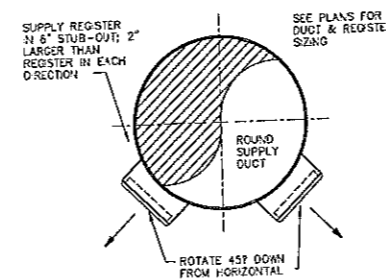
ROOF EXHAUST FAN
NO SCALE



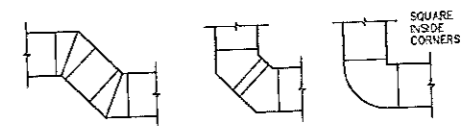
RELIEF HOOD
NO SCALE



FLEXIBLE DUCT & DIFFUSER CONNECTION DETAIL
NO SCALE



WAREHOUSE SUPPLY REGISTER DETAIL
NO SCALE



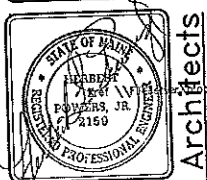
UNACCEPTABLE DUCT FITTINGS
NO SCALE



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MECHANICAL SYSTEMS ENGINEERS
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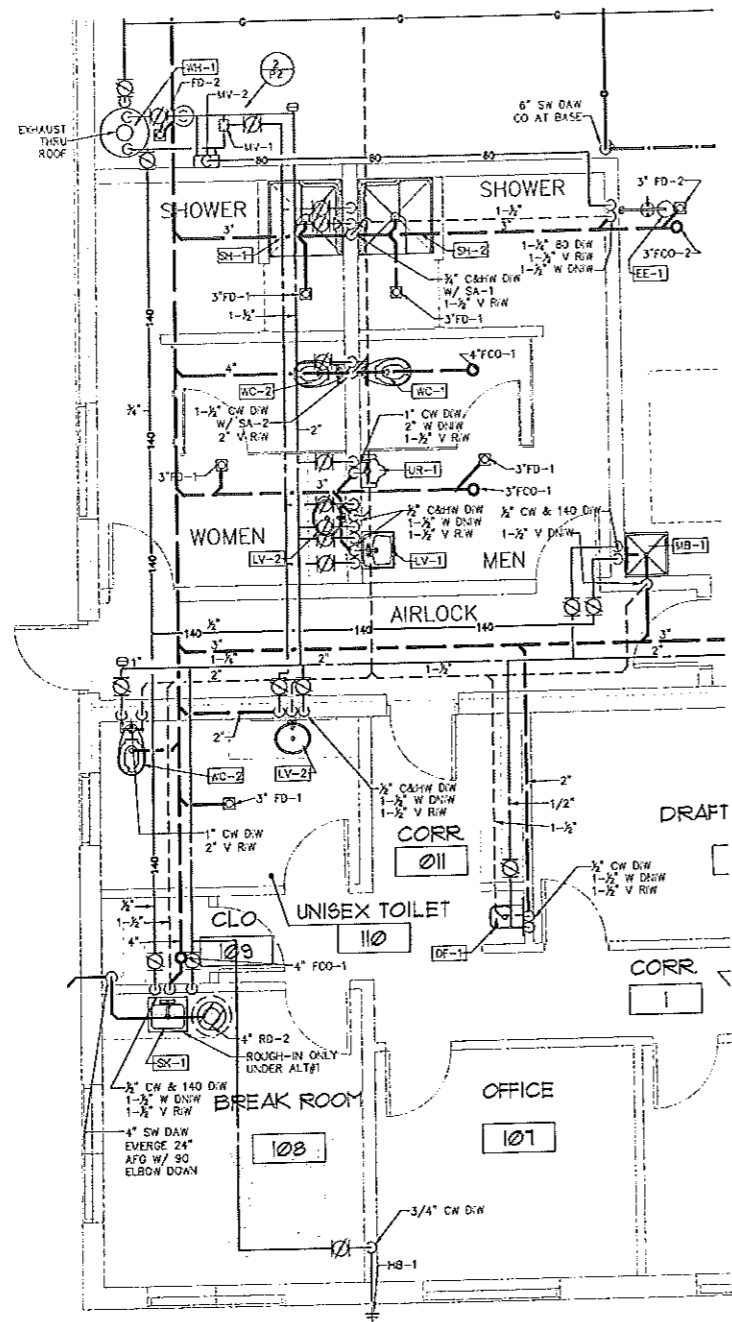
REV	DATE	DESCRIPTION
0	2/7/2003	ADDED DATA TO HOURS BID/CONSTRUCTION



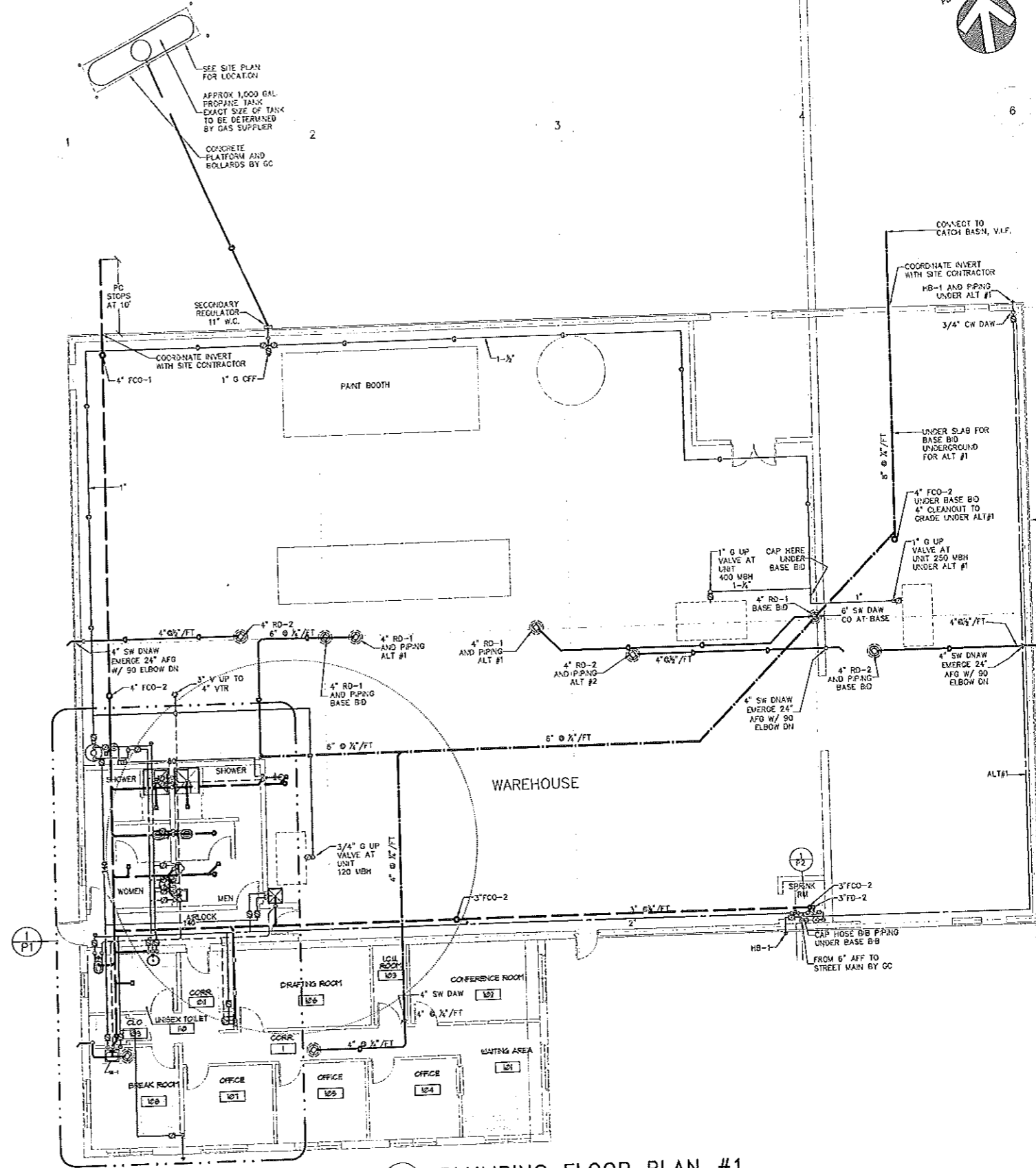
MECHANICAL GENERAL NOTES, ABBREVIATION SCHEDULES AND DETAILS
THEODORE LOGAN AND SON
Phillip J. Doughty Associates
Architects
207-281-5346

SCALE: AS NOTED
DATE: FEB. 22, 2003
DES BY: P.O.
DWN BY: P.O.
CHK BY: H.L.P.
APPY D:

PROJ: 020001
SHT: 1 of 1
DWG. NO.: M2



1
P1 ENLARGED FLOOR PLAN
SCALE: 1/4" = 1'-0"

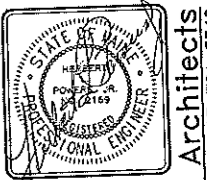


2
P1 PLUMBING FLOOR PLAN #1
SCALE: 1/8" = 1'-0"



MECHANICAL SYSTEMS ENGINEERS
 ROYAL RIVER CENTER, UNIT #10
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rev	description	date	appv	chkd	drwn
0					



Architects
Phillip J. Doughty Associates
 Theodore Logan and Son
 207-781-5246

PROJ: 020001 SH: 05
 DWG.NO. P1

C:\PROJECTS\020-001\020\DWG\PLUMBING\020-001-PL-01.DWG, 4/11/2003, 3:29:50 PM

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GENERAL NOTES

- All work shall be in accordance with the Maine State Plumbing Code, local codes and ordinances, National Fire Code (NFPA), or these plans or specifications, whichever is more strict.
- All drawings are schematic only, and are intended to indicate the intent, extent, and general arrangement of work. They are not meant to show every fitting, change of direction or every situation. Verify locations in the field. Work indicated shall be furnished complete to perform the function intended.
- Carefully coordinate the space requirements and location of piping with the other trade contractors. If coordination fails, conflicts will be decided in favor of the other contractors with this contractor relocating his piping and equipment at no expense to the Owner.
- All plumbing fixtures shall be back vented. This contractor shall make all final plumbing connections to equipment/ fixtures provided by other contractors.
- For pipe sizes not shown on floor plans: refer to adjacent or enlarged plumbing plans, then appropriate schedules, details, diagrams, specifications, and equipment/ fixture connection sizes. For otherwise indeterminate pipe segments, the size shall be the same as the largest adjacent segment. Pipe sizes are nominal (not O.D.) unless specifically noted otherwise.
- All piping shall run concealed above ceilings, in walls, in soffits and in chases unless noted otherwise.
- No structural members shall be cut without approval of the Architect.
- All plumbing shall be supported from the building structure. All piping 2" and larger shall be supported from the top chord of bar joists. All piping drops to fixtures shall be anchored solid to walls with a steel support bracket with adjustable clip.
- All water piping shall be installed parallel to building lines and pitched to low points. Provide draw-offs at low points. Piping shall be run neatly grouped together when practical.
- All piping through roofs, masonry walls and partitions shall have steel pipe sleeves. Openings between pipes and sleeves shall be caulked and sealed smoke and water tight. All pipe penetrations through a fire rated wall or floor shall be cast iron, steel or copper and rated to match the rating of the wall, as per the NFPA.
- All wall fixtures shall be carrier mounted unless otherwise specified.
- All storm and domestic water piping, unless buried or specified otherwise, shall be insulated.
- Run all water piping on warm side of building insulation. No water, waste or storm lines shall be run in exterior walls, unless directly indicated.
- Provide shock absorbers as shown on drawings and where required to avoid water hammer, sizes shall conform to P.D.I. standards.
- All sanitary waste piping less than 3" shall pitch down at 1/8" per L.F. At 3" and larger piping shall pitch at 1/4" per L.F. whenever possible. The piping main from where it enters the building to the furthest point in the system shall pitch down at 1/8" per L.F. unless indicated otherwise. No sanitary/ waste piping under slabs shall be less than 2" in diameter.

PLUMBING FIXTURE SCHEDULE

SYMBOL	TAG	FIXTURE	CW	HW	S / W	V	REMARKS	MNTD AFF
WC-1	WC-1	WATER CLOSET, WALL, HOC	1"	-	4"	2"	1/8" OFF EXPOSED FV W/TP, VC, ELONGATED, TOP SPOUT, WALL CARRIER MOUNTED, W/SEAT	ADA HEIGHT 18" (SEAT)
WC-2	WC-2	WATER CLOSET, WALL, RIGHT HANDED, HOC	1"	-	4"	2"	1/8" OFF EXPOSED FV W/TP, VC, ELONGATED, TOP SPOUT, WALL CARRIER MOUNTED, W/SEAT	ADA HEIGHT 18" (SEAT)
UR-1	UR-1	URNAL, WALL	1"	-	2"	1-1/2"	1" OFF FV, VC, WALL CARRIER MOUNTED	ADA HEIGHT 34"
LV-1	LV-1	LAVATORY, WALL, ADULT, HOC	1/2"	1/2"	1-1/2"	1-1/2"	VC, CARRIER MNTD, SINGLE HANDLE FAUCET	ADA HEIGHT 34"
LV-5	LV-5	LAVATORY, COUNTERTOP, ADULT, HOC	1/2"	1/2"	1-1/2"	1-1/2"	VC, CTR MNTD, SINGLE HANDLE FAUCET	CTR HEIGHT
SK-1	SK-1	SINK, SINGLE BOWL, KITCHEN, HOC	1/2"	1/2"	1-1/2"	1-1/2"	SS, CTR MNTD, KITCHEN FAUCET W/ SPRAY	CTR HEIGHT
MB-1	MB-1	MOP BASK	1/2"	1/2" 140	3"	1-1/2"	WOLDED STEEL, 24"x30"x10" FLOOR MNTD, V8 SERVICE FAUCET	FAUCET 34"
SH-1	SH-1	SHOWER, LEFT HANDED, HOC	1/2"	1/2"	2"	1-1/2"	FIBERGLASS STALL, HAND HELD AND REGULAR HEADS	VALVE 44"
SH-2	SH-2	SHOWER, RIGHT HANDED, HOC	1/2"	1/2"	2"	1-1/2"	FIBERGLASS STALL, HAND HELD AND REGULAR HEADS	VALVE 44"
DF-1	DF-1	DRAINING FOUNTAIN, HOC	1/2"	-	1-3/4" TO 1-1/2"	1-1/2"	W/ CARRIER	ADA RIMS 34"x42"
EE-1	EE-1	EMERGENCY SHOWER AND EYEWASH, HOC	-	1-3/4" TO 8"	1-3/4"	1-1/2"		

SPECIALTIES SCHEDULE

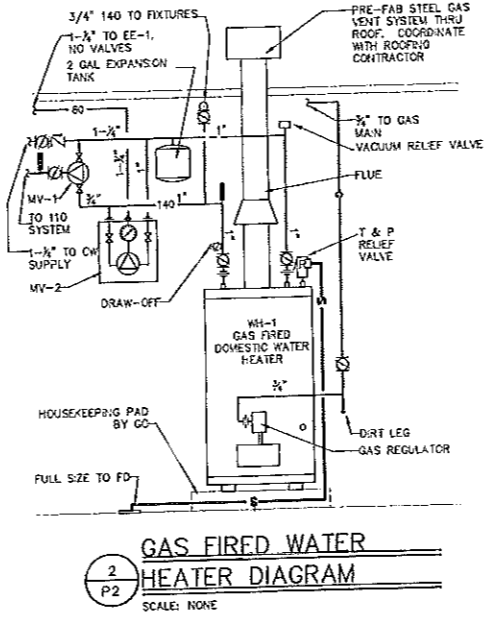
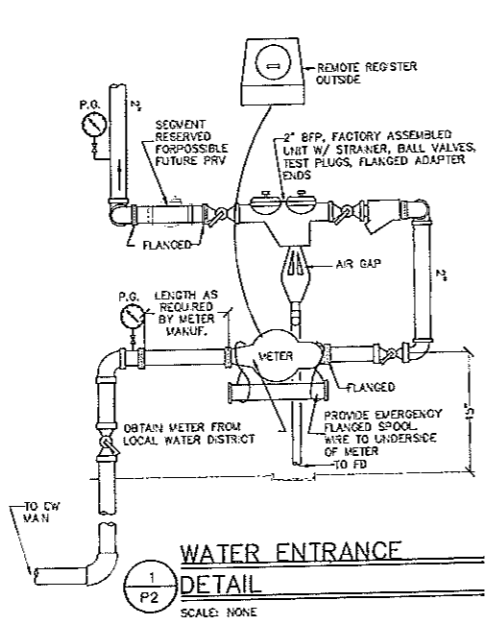
TAG	FIXTURE	IN	OUT	IDW	OTHER	VOLTS/PH	REMARKS
BFP-1	BACKFLOW PREVENTER REDUCED PRESSURE ZONE	2"	2"	3/4"	-	-	W/ BALL VALVES
BFP-2	BACKFLOW PREVENTER MECHANICAL EQUIPMENT	3/4"	3/4"	3/4"	-	-	
FCD-1	FLOOR CLEANOUT, GENERAL ROUND	-	SIZE OF PIPE UP TO 4"	-	-	-	ROUND NICKEL BRONZE TOP
FCD-2	FLOOR CLEANOUT ROUND FOR UNFINISHED AREAS	-	SIZE OF PIPE UP TO 4"	-	-	-	ROUND POLISHED BRONZE TOP
FCD-3	FLOOR CLEANOUT ROUND SHALLOW	-	SIZE OF PIPE UP TO 4"	-	-	-	ROUND POLISHED BRONZE TOP
FD-1	FLOOR DRAIN GENERAL ROUND	-	3"	-	-	-	6" NICKEL BRONZE TOP, TRAP PRIMER
FD-2	FLOOR DRAIN SMALL	-	2"	-	-	-	5" NICKEL BRONZE TOP
HB-1	HOSE BIB NON-FREEZE EXTERIOR	3/4"	-	-	-	-	OPERATING KEY
MV-1	THERMOSTATIC MIXING VALVE, MASTER	1" CW 1" 140	1-3/4" 110	-	-	-	THERMOSTATIC, ADJUSTABLE
MV-2	MIXING VALVE, EMERGENCY	3/4" CW 3/4" 140	3/4" TEMPERED	-	-	-	THERMOSTATIC, ADJUSTABLE
RD-1	ROOF DRAIN	-	3"	-	-	-	
SA-1	SHOCK ABSORBER	3/4"	-	-	-	-	"A" P.D.I. UNITS
SA-2	SHOCK ABSORBER	3/4"	-	-	-	-	"B" P.D.I. UNITS
TP-1	TRAP PRIMER AUTOMATIC	3/4" CW	3/4"	-	-	-	PROVIDE SPLITTER WHERE INDICATED
TP-2	TRAP PRIMER ELECTRIC	3/4" CW	3/4"	-	-	115/1	W/ TIMER. ELECTRIC BY DIV. 16
WOO-1	WALL CLEANOUT, SQUARE	-	SIZE OF PIPE	-	-	-	SQUARE NICKEL BRONZE COVER
BNV-1	BACKWATER VALVE	-	SIZE OF PIPE	-	-	-	PVC

ABBREVIATIONS, LINETYPES & SYMBOLS

<p>AT AT</p> <p>80 80 TEMPERED WATER</p> <p>110 110°F TEMPERED HOT WATER</p> <p>140 140°F HOT WATER</p> <p>ADA AMERICANS WITH DISABILITIES ACT</p> <p>AFF ABOVE FINISHED FLOOR</p> <p>AP ACCESS PANEL</p> <p>ATC AUTOMATIC TEMPERATURE CONTROL</p> <p>BFF BELOW FINISHED FLOOR</p> <p>BFG BELOW FINISHED GRADE</p> <p>BFP BACKFLOW PREVENTER</p> <p>BLV BALL VALVE</p> <p>BV BALANCING VALVE</p> <p>BWV BACKWATER VALVE</p> <p>CAF CAPPED FOR FUTURE</p> <p>CHKV CHECK VALVE</p> <p>Q CAST-IRON</p> <p>CTR COUNTER</p> <p>CO CLEANOUT</p> <p>CONT CONTINUOUS WASTE</p> <p>CIE CONNECT TO EXISTING</p> <p>CU COPPER</p> <p>CW COLD WATER</p> <p>C&HW COLD & HOT WATER</p> <p>DAW DROP AT WALL</p> <p>DC DROP IN CHASE</p> <p>DW DROP IN WALL</p> <p>DN DOWN</p> <p>DN&W DOWN AT WALL</p> <p>DN&C DOWN IN CHASE</p> <p>DN&W DOWN IN WALL</p> <p>DO DRAWOFF</p> <p>FBO FURNISHED BY OWNER</p> <p>FCD FLOOR CLEANOUT</p> <p>FD FLOOR DRAIN</p> <p>FFE FINISHED FLOOR ELEVATION</p> <p>FT FEET</p> <p>FV FLUSHVALVE</p> <p>G L.P. GAS</p> <p>GC GENERAL CONTRACTOR</p> <p>GLV GLOBE VALVE</p> <p>GPF GALLONS PER FLUSH</p> <p>GPM GALLONS PER MINUTE</p> <p>GV GATE VALVE</p> <p>HB HOSE BIB</p> <p>HC HEATING CONTRACTOR (15400)</p> <p>HW HOT WATER (110)</p>	<p>IE INVERT ELEVATION</p> <p>IDW INDIRECT WASTE</p> <p>LA LAVATORY</p> <p>LF LINEAR FEET</p> <p>MNTD MOUNTED</p> <p>MV MIXING VALVE</p> <p>NB NICKEL BRONZE</p> <p>OPC OFFSET FOR CLARITY</p> <p>PC PLUMBING CONTRACTOR (15400)</p> <p>PF PULGED FOR FUTURE</p> <p>PG PRESSURE GAUGE</p> <p>PH PHASE</p> <p>PRV PRESSURE REDUCING VALVE</p> <p>PS POUNDS PER SQUARE INCH</p> <p>RAW RISE AT WALL</p> <p>RD ROOF DRAIN</p> <p>RH RIGHT HAND</p> <p>RISE IN CHASE</p> <p>RISW RISE IN WALL</p> <p>RPW REVOLUTIONS PER MINUTE</p> <p>RV RELIEF VALVE</p> <p>S SANITARY WASTE</p> <p>SA SHOCK ABSORBER</p> <p>SK SINK</p> <p>SP SUMP PUMP</p> <p>SS STAINLESS STEEL</p> <p>SW STORM WATER</p> <p>TCC TEMPERATURE CONTROL CONTRACTOR</p> <p>TD TEMPERATURE GAUGE</p> <p>TMV THERMOSTATIC MIXING VALVE</p> <p>TP TRAP PRIMER</p> <p>TYP TYPICAL</p> <p>UD&DN UP & DOWN IN WALL</p> <p>UP IN CHASE</p> <p>UP IN WALL</p> <p>UR URINAL</p> <p>V VENT</p> <p>VB VACUUM BREAKER</p> <p>VC VACUOUS CHINA</p> <p>VF VERIFY IN FIELD</p> <p>VIR VENT THRU ROOF</p> <p>W WASTE</p> <p>W/ WITH</p> <p>W/O WITH OUT</p> <p>WC WATER CLOSET</p> <p>WCD WALL CLEANOUT</p> <p>WF WATER FILTER</p>	<p>PLAN NORTH</p> <p>SANITARY / WASTE PIPING UNDER SLAB</p> <p>SANITARY / WASTE PIPING ABOVE SLAB</p> <p>INDIRECT WASTE PIPING ABOVE SLAB</p> <p>STORM WATER PIPING BELOW SLAB</p> <p>STORM WATER PIPING ABOVE SLAB</p> <p>VENT PIPING ABOVE FLOOR</p> <p>VENT PIPING ABOVE FLOOR BELOW SLAB</p> <p>COLD WATER PIPING</p> <p>COLD WATER PIPING BELOW SLAB</p> <p>TRAP PRIMER WATER PIPING</p> <p>TRAP PRIMER WATER PIPING BELOW SLAB</p> <p>HOT WATER PIPING (140°F)</p> <p>HOT WATER PIPING (140°F) BELOW SLAB</p> <p>HOT WATER RETURN PIPING (140°F)</p> <p>HOT WATER PIPING (110°F)</p> <p>HOT WATER PIPING (110°F) BELOW SLAB</p> <p>HOT WATER RETURN PIPING (110°F)</p> <p>L.P. GAS PIPING</p> <p>STRAINER</p> <p>ANCHOR</p> <p>BALL VALVE</p> <p>BALL VALVE, ALTERNATE SYMBOL</p> <p>BALANCING VALVE</p> <p>GLOBE VALVE</p> <p>CHECK VALVE</p> <p>CHECK VALVE</p> <p>BACKFLOW PREVENTER</p> <p>RELIEF VALVE</p> <p>PRESSURE REDUCING VALVE</p> <p>THERMOMETER</p> <p>PRESSURE GAUGE</p> <p>TRAP PRIMER</p> <p>DROP/RISE IN LINE</p> <p>LINE UP TO FLOOR ABOVE</p> <p>TEE - DROP</p> <p>SHOCK ABSORBER</p> <p>UNION</p> <p>FLOOR CLEANOUT</p> <p>ROOF DRAIN</p> <p>FLOOR DRAIN</p> <p>WALL CLEANOUT</p> <p>VENT THROUGH ROOF</p> <p>HOSE BIB</p> <p>WATER METER</p> <p>PLUMBING FIXTURE/EQUIPMENT NUMBER TAG</p>
--	---	---

WATER HEATER SCHEDULE

TAG	LOCATION	SERVICE	GAL	COLD IN	HOT	MBH	RECOVERY	REMARKS
WH-1	WAREHOUSE	140° HW DOMESTIC	100	1"	1"	63	69.7 @ 90°F RISE	GAS FRED USING L.P. GAS. ELEC. BY DIV. 16



MECHANICAL SYSTEMS ENGINEERS
ROYAL RIVER CENTER, UNIT #10
10 FOREST FALLS DRIVE
YARMOUTH, MAINE 04096
VOICE: (207) 848-1441
FAX: (207) 848-1443
mechsyst@maine.rr.com
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ISSUED FOR BID/CONSTRUCTION

2/22/03

DATE

DES BY: E.J.P.

DWN BY: E.J.P.

CHK BY: H.L.P.

APPV'D:

THEODORE LOGAN AND SON

Architects

207-881-5546

PLUMBING DETAILS AND SCHEDULES

PROJ: 020001

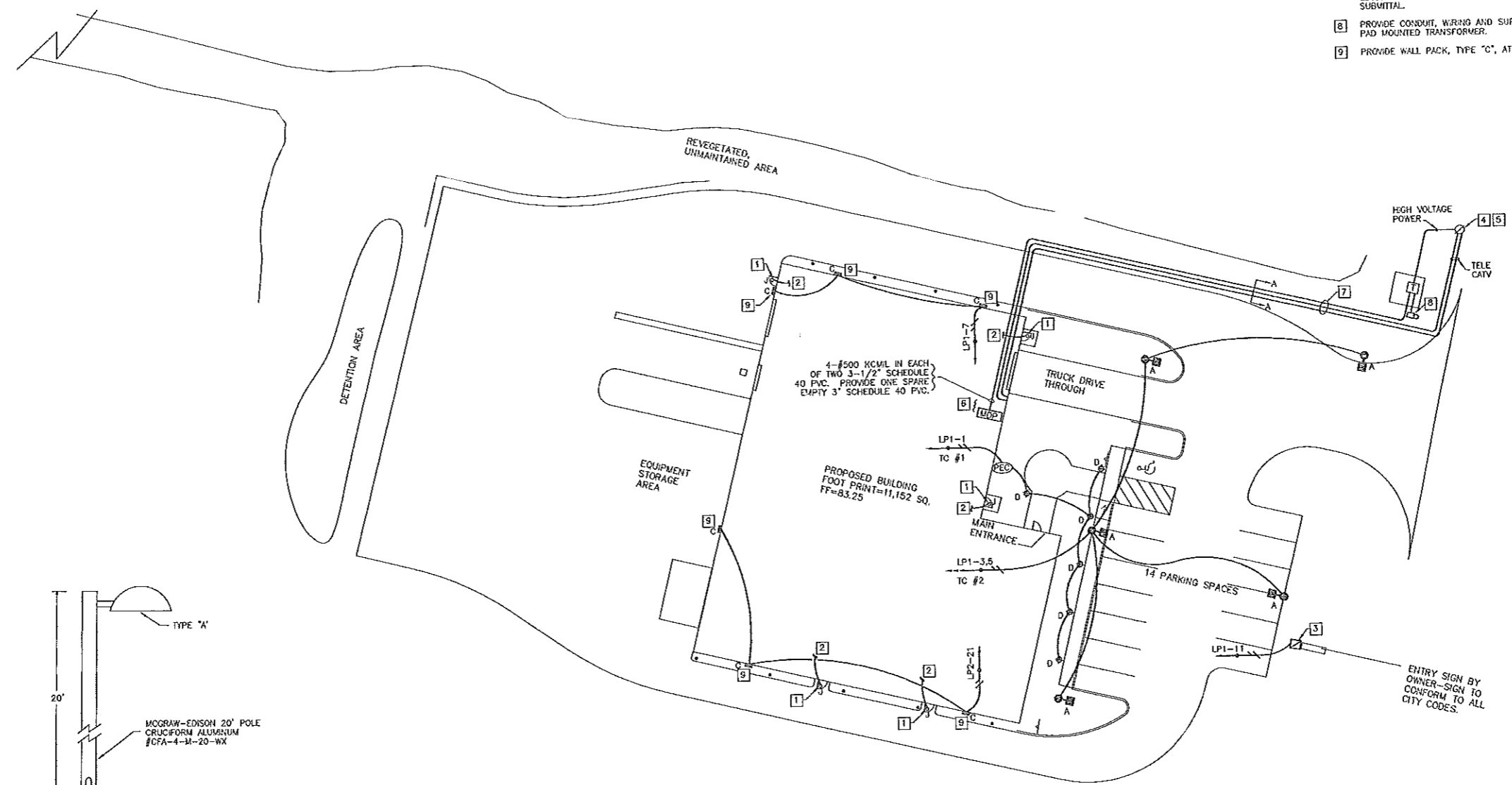
DWG. NO. P2

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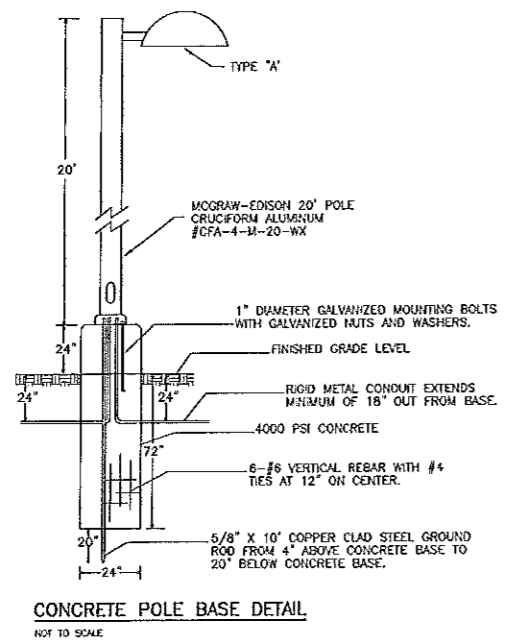
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CONSTRUCTION NOTES:

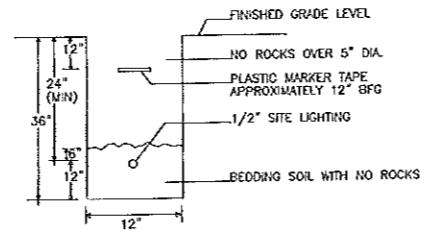
- 1 CENTER TYPE "J" ENTRY LIGHT AT 12" ABOVE DOOR FRAME. SURFACE MOUNT ON 10" X 17" FLUSH TRIM BOARD PAINTED TO MATCH BUILDING.
- 2 CONTINUE CIRCUIT TO GFCI RECEPTACLE AT DOOR SHOWN ON SHEET E-2.
- 3 PROVIDE TYPE "C" DISCONNECT SWITCH AT LIGHTED SIGN. FUSE IN ACCORDANCE WITH LOAD.
- 4 VERIFY LOCATION OF RISER POLE.
- 5 PROVIDE CONDUIT RISERS ON UTILITY POLE FOR POWER, TELE, AND CATV.
- 6 VERIFY EXACT LOCATION OF SERVICE ENTRANCE FOR POWER, TELE, AND CATV.
- 7 SKETCH EXACT LOCATION OF UNDERGROUND ELECTRICAL CONDUITS ON ELECTRICAL SITE PLAN AND CIVIL SITE PLAN AS PART OF AS-BUILT DRAWING SUBMITTAL.
- 8 PROVIDE CONDUIT, WIRING AND SUPPORT STRUCTURE FOR UTILITY METER AT PAD MOUNTED TRANSFORMER.
- 9 PROVIDE WALL PACK, TYPE "C", AT 18" ABOVE GRADE.



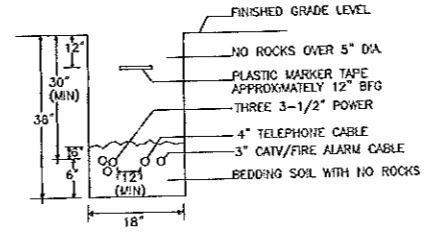
ELECTRICAL SITE PLAN
SCALE: 1" = 20'



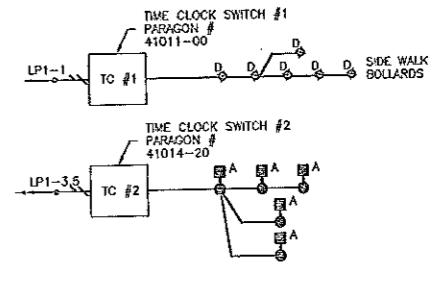
CONCRETE POLE BASE DETAIL
NOT TO SCALE



SITE LIGHTING TRENCH DETAIL
NOT TO SCALE



SERVICE TRENCH DETAIL A-A
NOT TO SCALE



SITE LIGHTING CONTROL AND WIRING DETAIL
NOT TO SCALE

NOTE: ALL WIRING SHOWN IS 3-#12 IN 1/2" CONDUIT

LOGAN AND SON LOGAN ASS. INC. 04/22/00 10:33:27 PM

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NO.	DESCRIPTION	DRAWN	CHECKED	APPROVED	DATE



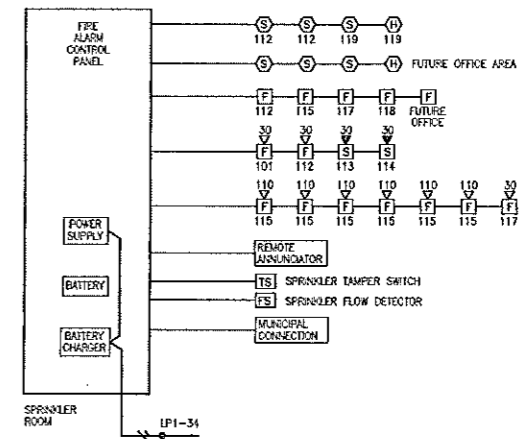
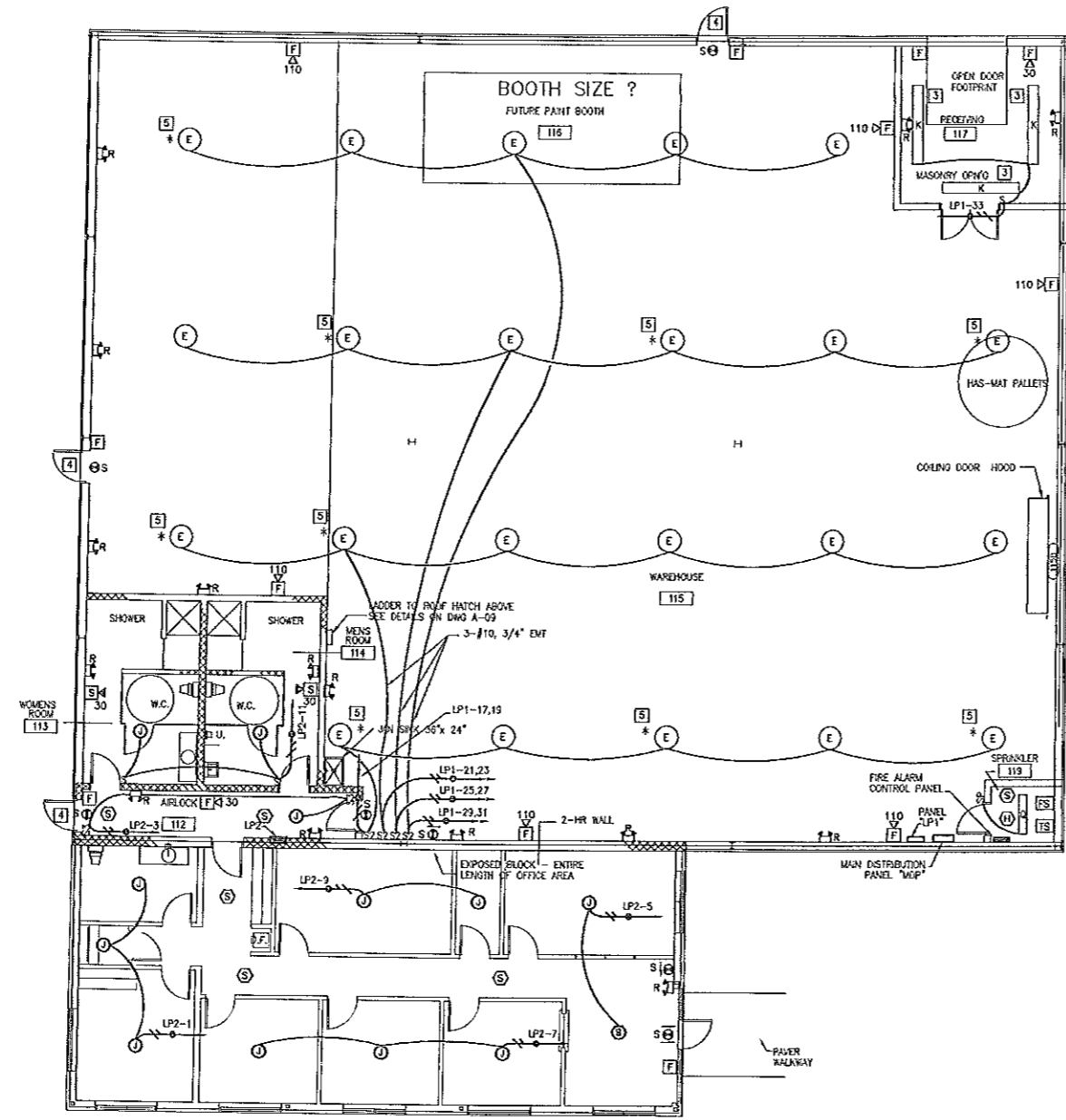
ELECTRICAL SITE PLAN
THEODORE LOGAN AND SON
Architects
Phillip J. Daughty Associates

SCALE: 1" = 20'	DATE: 10-10-07
DESIGNED: BFT	DRAWN: BNC
CHECKED: BFT	APPROVED: [Signature]

PROJ: [Blank]
SHT: 05 OF 05
SHEET NO. **E-S**

NOTE:
EXIT SIGNS AND EMERGENCY LIGHT BATTERY PACKS ARE TO BE POWERED FROM THE LINE SIDE OF THE SWITCH CONTROLLING THE LIGHTS IN THE AREA SERVED.

- CONSTRUCTION NOTES:**
- 1 CONTINUE CIRCUIT TO EXTERIOR MOUNTED ENTRY LIGHT SHOWN ON SHEET E-5.
 - 2 FLUSH MOUNT RECEPTACLES AT 18" AFF.
 - 3 CHAIN MOUNT TYPE "K" WITH BOTTOM OF LUMINAIRE REFLECTOR EVEN WITH BOTTOM OF STRUCTURAL MEMBERS.
 - 4 EXTERIOR LIGHT SHOWN ON ELECTRICAL SITE DRAWING.
 - 5 PROVIDE QUARTZ PESTRIKE IN THIS TYPE "L" LUMINAIRE.
 - 6 PROVIDE DAMPING BALLAST AND SWIMMER SWITCH RECOMMENDED BY BALLAST MANUFACTURER FOR 0-100% DIMMING RANGE.

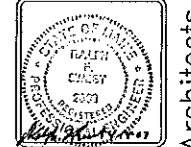


LIGHTING AND FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

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NOTE:
SHEET E-1A SHOWS THE ELECTRICAL WORK UNDER ALTERNATE #1.

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR BID/CONSTRUCTION	3-29-03	PLD
2	ISSUED FOR FLOOR PLAN/ELEVATIONS APPROVAL BY OWNER	7-31-03	PLD
3	ISSUED FOR FLOOR PLAN/ELEVATIONS APPROVAL BY OWNER	7-17-03	PLD
4	REVISION		PLD



Architects
Philip J. Doughty Associates
 THEODORE LOGAN AND SON
 ELECTRICAL AND FIRE ALARM PLAN
 SCALE: 1/8" = 1'-0"
 DATE: JULY 30, 2003
 DESIGNED: RFS
 DRAWN: JMC
 CHECKED: RFS
 APPROVED:

PROJ: SHEET NO. **E-1A**
 2 OF 4

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LUMINAIRE SCHEDULE										
TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	MOUNTING	VOLTAGE	QUANTITY	WATTS	COLOR	TYPE	NOTES
A	MCGRAW-EDISON	VM-250-HPS-208-3F-MA1050-B	PARKING AREA LIGHTS ON 20' POLE WITH TYPE II DISTRIBUTION, W/ PHOTOCCELL CONTROL	20' POLE	208	1	250	CL	HPS	
B		HP-WH-150-120-LL-FE	BUILDING MOUNTED AREA LIGHTS, WITH PHOTOCCELL CONTROL	WALL	208	1	150	CL	HPS	
C		WHP-400-208-0-FH1-PH028/EP	WALKWAY LIGHTING BOLLARDS	GROUND	208	1	175	CL	HPS	
D		WBA-232A-120-EB1	WRAP AROUND 12" X 48" WITH ELECTROSTATIC BALLAST	PENDANT	120	2	32	3500K	TB	
E		ZF30-2457B-S303-120-W-EB1	12" X 2" RECESSED TROFFER, 9 PARABOLIC CELLS, SEMI-SPICULAR WITH LOW IRID. (SEE *)	RECESSED	120	2	32	3500K	U6TB 1	
F		GCSR-2048-432-A19/156-120-EB1	12" X 4" TROFFER, 0.156" THICK FA19 LENS, WHITE REGRESSED TRIM	RECESSED	120	4	32	3500K	TB	
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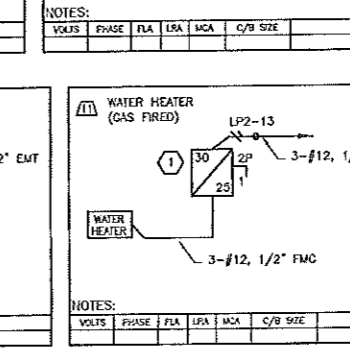
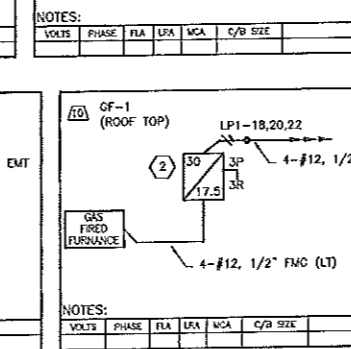
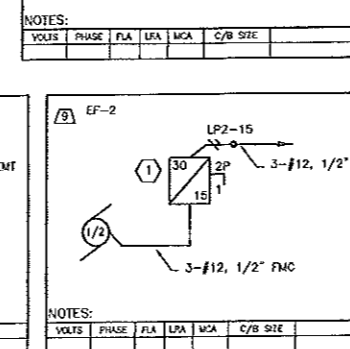
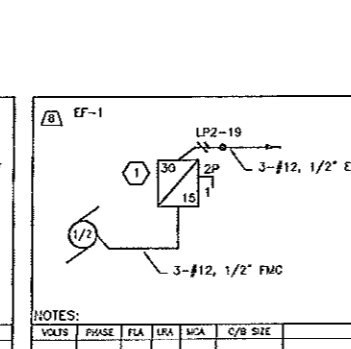
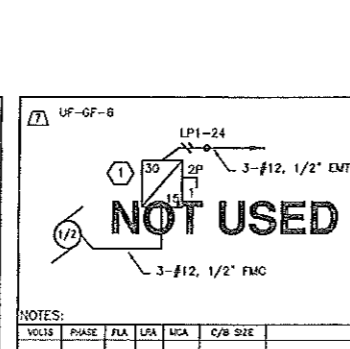
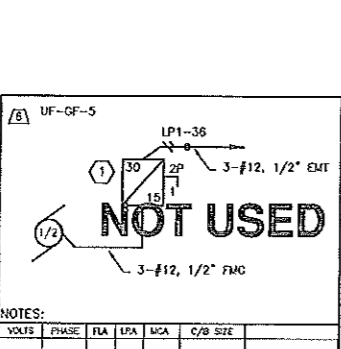
NOTE 1: TYPE "G" LUMINAIRE SHOWN ON SHEET E-1 WITH ASTERISK SHALL BE SAME AS TYPE "G" BUT WITH DIMMING BALLAST.

PANEL SCHEDULE (NORMAL POWER)									
PANEL "LP1"		PANEL "LP2"		PANEL "MOP"					
VOLTS	PHASE	VOLTS	PHASE	VOLTS	PHASE				
120/208	3	120/208	3	120/208	3				
BRK 200	AGL 22,000	BRK 200	AGL 10,000	BRK 600	AGL 22,000				
MAX YES	OWS 42	MAX YES	OWS 42	MAX YES	OWS 42				
MOR NO	MOR NO	MOR NO	MOR NO	MOR NO	MOR NO				
CONNECTION	CONNECTION	CONNECTION	CONNECTION	CONNECTION	CONNECTION				
DEMAND	DEMAND	DEMAND	DEMAND	DEMAND	DEMAND				
DEMAND TOTAL	DEMAND TOTAL	DEMAND TOTAL	DEMAND TOTAL	DEMAND TOTAL	DEMAND TOTAL				

PANEL SCHEDULE (NORMAL POWER)									
PANEL "LP1"		PANEL "LP2"		PANEL "MOP"					
VOLTS	PHASE	VOLTS	PHASE	VOLTS	PHASE				
120/208	3	120/208	3	120/208	3				
BRK 200	AGL 22,000	BRK 200	AGL 10,000	BRK 600	AGL 22,000				
MAX YES	OWS 42	MAX YES	OWS 42	MAX YES	OWS 42				
MOR NO	MOR NO	MOR NO	MOR NO	MOR NO	MOR NO				
CONNECTION	CONNECTION	CONNECTION	CONNECTION	CONNECTION	CONNECTION				
DEMAND	DEMAND	DEMAND	DEMAND	DEMAND	DEMAND				
DEMAND TOTAL	DEMAND TOTAL	DEMAND TOTAL	DEMAND TOTAL	DEMAND TOTAL	DEMAND TOTAL				

PANEL SCHEDULE (NORMAL POWER)									
PANEL "LP1"		PANEL "LP2"		PANEL "MOP"					
VOLTS	PHASE	VOLTS	PHASE	VOLTS	PHASE				
120/208	3	120/208	3	120/208	3				
BRK 200	AGL 22,000	BRK 200	AGL 10,000	BRK 600	AGL 22,000				
MAX YES	OWS 42	MAX YES	OWS 42	MAX YES	OWS 42				
MOR NO	MOR NO	MOR NO	MOR NO	MOR NO	MOR NO				
CONNECTION	CONNECTION	CONNECTION	CONNECTION	CONNECTION	CONNECTION				
DEMAND	DEMAND	DEMAND	DEMAND	DEMAND	DEMAND				
DEMAND TOTAL	DEMAND TOTAL	DEMAND TOTAL	DEMAND TOTAL	DEMAND TOTAL	DEMAND TOTAL				

MATERIAL SCHEDULE			
ITEM	MANUFACTURER	CATALOG NUMBER	DESCRIPTION
①	SQUARE D	3130-0221N	30A2P FUSIBLE DISCONNECT SWITCH, NEMA-1
②	SQUARE D	3130-0321NKB	30A3P FUSIBLE DISCONNECT SWITCH, NEMA-3R
③	SQUARE D	3130-0221NKB	30A2P FUSIBLE DISCONNECT SWITCH, NEMA-3R
④	SQUARE D	3130-321N	30A3P FUSIBLE DISCONNECT SWITCH, NEMA-1
⑤			
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GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, (NFPA70-2002).
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES.
- THE CONTRACTOR SHALL VERIFY THE EXACT ELECTRICAL CONNECTION POINT FOR EQUIPMENT OF OTHER TRADES WITH THOSE TRADES BEFORE ROUGH-IN ELECTRICAL WORK.
- ALL ELECTRICAL WORK SHOWN WITHOUT DIMENSIONS IS SHOWN DIAGRAMMATICALLY AND EXACT LOCATIONS ARE TO BE DETERMINED IN THE FIELD.
- THE CONTRACTOR SHALL VERIFY THE FIRE RATING OF WALLS, FLOORS AND CEILINGS WITH THE ARCHITECT'S DRAWINGS AND SHALL PROVIDE ELECTRICAL PENETRATIONS OF THESE PARTITIONS HAVING THE SAME OR HIGHER FIRE RATING BASED ON AND AS SHOWN IN THE UL FIRE RESISTANCE DIRECTORY FOR EACH OCCURRENCE.
- THE ELECTRICAL DRAWINGS AND SPECIFICATIONS FORM AN INTEGRAL PART OF THE CONTRACT DOCUMENTATION AND INFORMATION GIVEN IN EITHER IS AS APPLICABLE AS IF GIVEN IN BOTH.
- WHERE DIFFERENCES EXIST BETWEEN TWO OR MORE DESCRIPTIONS OF WORK TO BE DONE, THE MORE DETAILED DESCRIPTION SHALL PREVAIL.
- WHERE ALLOWED AND UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS, ALL WIRING FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS SHALL BE COPPER NUMBER 12/2 W/GND TYPE MC CABLE.
- GFCI RECEPTACLES ARE NOT TO BE THROUGH WIRED TO PROTECT DOWN-STREAM EQUIPMENT UNLESS OTHERWISE SPECIFICALLY NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
- LUMINAIRES RECESSED INTO FIRE RATED CEILING SHALL HAVE FIRE RATED ENCLOSURES IN ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY.
- ALL LABOR AND MATERIAL NOT NORMALLY PROVIDED BY THE UTILITY OR THE MUNICIPALITY BUT REQUIRED IN THE COURSE OF PROVIDING CONNECTION OF THE PROJECT TO TELEPHONE, CABLE, MUNICIPAL FIRE ALARM, OR ELECTRIC POWER SHALL BE PROVIDED BY THE CONTRACTOR.
- ALL FUSES SHALL BE UL CLASS RK5, LOW PEAK, CURRENT LIMITING, TIME DELAY, CARTRIDGE TYPE UNLESS OTHERWISE NOTED.
- ALL INDIVIDUAL CONDUCTORS ARE COPPER WITH THIN INSULATION COLOR CODED AS SPECIFIED.
- THE CONTRACTOR SHALL VERIFY WITH OTHER TRADES AND PROVIDE RECEPTACLES THAT MATCH THE FLUO PROVIDED WITH THEIR EQUIPMENT WHEN THAT EQUIPMENT IS REFERENCED ON THE ELECTRICAL DRAWINGS.
- THE CONTRACTOR SHALL ARRANGE TO HAVE THE ELECTRICAL INSPECTOR HAVING JURISDICTION INSPECT ALL WIRING BEFORE IT IS CONCEALED.
- ALL TEMPORARY WIRING AND ELECTRICAL EQUIPMENT USED DURING CONSTRUCTION SHALL BE REMOVED FROM THE BUILDING BEFORE COMPLETION.
- THE CONTRACTOR SHALL COORDINATE THE MOUNTING HEIGHT OF ALL LIGHT SWITCHES AND RECEPTACLES IN THE FIELD WITH ARCHITECT'S FLOOR PLANS, ELEVATIONS, AND AREA UTILIZATION DETAILS.
- OPENINGS IN SMOKE BARRIERS AND FIRE RATED BARRIERS (WALLS, FLOORS, AND CEILINGS) FOR STEEL ELECTRICAL OUTLET BOXES NOT EXCEEDING 16 SQUARE INCHES IN AREA AND THAT ARE NOT LISTED FOR USE IN FIRE RESISTANCE RATED ASSEMBLIES SHALL BE PERMITTED PROVIDED THE TOTAL AREA OF SUCH OPENINGS DOES NOT EXCEED 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF BARRIER AREA. OUTLET BOXES ON OPPOSITE SIDES OF SMOKE AND FIRE BARRIERS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES.

SYMBOLS

- ① AUTOMATIC MOTOR STARTER WITH FUSED DISCONNECT SWITCH ELECTRICAL CODE, (NFPA70-2002).
- ② AUTOMATIC MOTOR STARTER
- ③ MANUAL MOTOR STARTER
- ④ TIME CLOCK
- ⑤ MOTOR DRIVEN MECHANICAL EQUIPMENT
- ⑥ WATER HEATER
- ⑦ EMERGENCY LIGHTING BATTERY PACK
- ⑧ RECESSED CIRCUIT BREAKER PANELBOARD
- ⑨ SURFACE MOUNTED LOADCENTER
- ⑩ CIRCUIT BREAKER DESIGNATION: 20 AMPS, 1 POLE
- ⑪ BRANCH CIRCUIT HOME RUN DESIGNATION: HOME RUN TO PANELBOARD "LP3" CIRCUIT #1
- ⑫ THERMOSTAT
- ⑬ JUNCTION BOX OR ELECTRICAL CONNECTION POINT
- ⑭ PHOTOELECTRIC SWITCH
- ⑮ GROUNDING ELECTRODE AND CONDUCTOR
- ⑯ ASSURANCE-WEATHER PROOF
- ⑰ PART OF NATIONAL ELECTRICAL CODE
- ⑱ NOT IN CONTRACT
- ⑲ AUTOMATIC TEMPERATURE CONTROL
- ⑳ NUMBER REFERS TO CONSTRUCTION NOTE ON THIS SHEET
- ㉑ NUMBER REFERS TO ITEM ON EQUIPMENT SCHEDULE
- ㉒ NUMBER REFERS TO ITEM NUMBER ON MATERIAL SCHEDULE
- ㉓ NUMBER REFERS TO MECHANICAL EQUIPMENT WIRING DETAIL
- CONDUIT TURNING UP OR OUT OF DRAWING
- CONDUIT TURNING DOWN OR INTO DRAWING
- LIGHT SWITCH, SINGLE POLE
- LIGHT SWITCH, THREE WAY
- LIGHT SWITCH, FOUR WAY
- LUMINAIRES: (DRAWN TO APPROXIMATE SHAPE AND TO SCALE OR LARGE ENOUGH FOR CLARITY)
- LUMINAIRES STRIP TYPE (LENGTH DRAWN TO SCALE)
- EXIT LIGHTING FIXTURE, ARROWS AND EXIT FACE AS INDICATED ON DWGS (MOUNTING HEIGHTS TO BE DETERMINED BY JOB SPECIFICATIONS)
- EMERGENCY BATTERY REMOTE LIGHTING HEADS
- EMERGENCY BATTERY UNIT WITH LIGHTING HEADS
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE - GFCI TYPE
- WP DUPLEX RECEPTACLE IN WEATHER PROOF BOX
- DOUBLE DUPLEX RECEPTACLE
- SPECIAL RECEPTACLE - SEE CONSTRUCTION NOTES
- FIRE ALARM SYSTEM-SMOKE DETECTOR
- FIRE ALARM SYSTEM-MANUAL PULL STATION
- FIRE ALARM SYSTEM-STROBE LIGHT UNIT, NUMBER-CANDELLA OF STROBE
- FIRE ALARM SYSTEM-HORN/STROBE LIGHT UNIT, WEATHERPROOF
- FIRE ALARM SYSTEM-HORN/STROBE LIGHT UNIT, NUMBER-CANDELLA OF STROBE
- FIRE ALARM SYSTEM-HEAT DETECTOR
- FIRE ALARM SYSTEM-FLOW DETECTOR
- FIRE ALARM SYSTEM-TAMPER SWITCH
- FIRE ALARM SYSTEM-RELEASED MAGNETIC DOOR HOLDERS
- FIRE ALARM SYSTEM CONTROL PANEL
- FIRE ALARM SYSTEM DUCT SMOKE DETECTOR
- REMOTE STATION FOR DUCT MOUNTED SMOKE DETECTOR
- BRANCH CIRCUIT HOMERUN TO PANEL CIRCUIT LP-15. SINGLE HALF ARROW HEAD INDICATES 120 VOLT CIRCUIT. TWO HALF ARROW HEADS INDICATES 240 VOLT CIRCUIT.
- LP1-6,8 280 VOLT BRANCH CIRCUIT HOMERUN TO PANEL "LP1" 2-POLE BREAKER ASSEMBLY IN CIRCUIT LOCATIONS 6 & 8
- LP1-10,12,14 280 VOLT BRANCH CIRCUIT HOMERUN TO PANEL "LP1" 3-POLE BREAKER ASSEMBLY IN CIRCUIT LOCATIONS 10, 12, AND 14
- VOICE/DATA OUTLET
- VOICE/DATA OUTLET - WALL MOUNTED
- ELECTRICAL METALLIC TUBING
- FLEXIBLE METALLIC TUBING
- LIQUID TIGHT FLEXIBLE METALLIC TUBING

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ISSUED FOR BID/CONSTRUCTION APPROVAL BY OWNER
 ISSUED FOR FLOOR FINISHING APPROVAL BY OWNER
 PHILLIP J. DOUGHTY ASSOCIATES ARCHITECTS
 THEODORE LOGAN AND SON
 SCALE: 1/8" = 1'-0"
 DATE: JULY 2009
 DESIGNED: RPS
 DRAWN: RPS
 CHECKED: RPS
 APPROVED:
 SHEET NO. 4 OF 4
 E-3A