Form # P 04 DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND Please Read Application And Notes, If Any, PERMIT ISSUED Attached This is to certify that _ ___JLTS VIII LLC/TBD cond floor addition for office space has permission to _____Interior renovation, interior load 1000 sq 1 dock a AT 106 PINE TREE IND PKWY 254 A003001 provided that the person or persons, fi pting this permit shall comply with all or cd laốn ạc of the provisions of the Statutes of Mage and of the Constant of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department. Not ation o spectio must b Apply to Public Works for street line give nd writte permissi procure A certificate of occupancy must be this bui and grade if nature of work requires befo ng or p hereof i procured by owner before this buildsuch information. lath or oth sed-in. 2 ing or part thereof is occupied.

PENALTY FOR REMOVING THIS CARD

NOTICE IS REQUIRED.

HOL

Fire Dept. CAPT. A January

Department Name

Health Dept. _ Appeal Board Other ____

389 Congress Street, 04101 T	Owner Name:		_ =	r Address:	<u> </u>		Phone:	
106 PINE TREE IND PKWY	JLTS VIII LLO	С		ENTRE ST			l'ilone.	
Business Name:	Contractor Name			actor Address:			Phone	
WB Mason	TBD							
Lessee/Buyer's Name	Phone:			t Type: nmercial		_		Zone: 1-M
Past Use:	Proposed Use:		Perm	it Fee:	Cost of Wor	k: CE	O District:	
Commercial Vacant Space	Commercial -	"WB MASON"	9	\$12,095.00	\$1,200,00	00.00	3	(ma.
connected w/ permit#090045	•	ation, interior loading & second floor fice space	FIRE	DEPT:	Approved Denied	Use Group	10161	Type 3/8
			*	See Cond	litions	10	36-20	703
Proposed Project Description:								1 1 -
Interior renovation, interior loadi floor addition for office space	ng dock addition, &	12,000 sq ft second	Signa	ture: (KG STRIAN ACTI	<u></u>	Signature	JWB12	12459
not addition for office space			Action			oroved w/Co	nditions	Denied
			Signa				ate:	
	nte Applied For:		1	· · · · · · · · · · · · · · · · · · ·	Approva	al		
	09/08/2009	Special Zone or Revi	PWS	Zonin	ng Appeal		Historic Prese	ervation
 This permit application does Applicant(s) from meeting a Federal Rules. 		Shoreland Shoreland	-113	☐ Variance		E		t or Landmark
2. Building permits do not incluse septic or electrical work.	ude plumbing,	Wetland	1	Miscella	neous		Does Not Req	quire Review
3. Building permits are void if within six (6) months of the	date of issuance.	☐ Flood Zone PArel Eone	1/2 -X	Condition Condition	onal Use		Requires Rev	iew
False information may invaling permit and stop all work	idate a building	Subdivision	' ' '	Interpret	ation		Approved	
	_	2 Site Plan 2009 -003/	,	Approve	d		Approved w/0	Conditions
PERMIT ISS	SUED	Maj Minor MM]]),y	Denied			Denie	\geq
	_	Date:	-evy	Date		Date	4	/
DEC 22	MG	-> 1//	4/09	7				
DEC 22	-land							
		CERTIFICAT	ION					
I hereby certify that I am the owner is the heart authorized by the own furisdiction. In addition, if a pernoshall have the authority to enter alsuch permit.	ner to make this appl nit for work describe	ication as his authorized in the application is	d agen	t and I agree to I certify that	to conform the code of	to all appl ficial's aut	icable laws of horized representations	of this esentative
SIGNATURE OF APPLICANT		ADDRES	SS		DATE	 ;	PHO	NE
RESPONSIBLE PERSON IN CHARGE	OF WORK THE			· -	DATE		PHO	

-	y of Portland, Maine - Bu Congress Street, 04101 Tel	_		9716	Permit No: 09-0979	Date Applied For: 09/08/2009	CBL: 254 A003001
	ition of Construction:	Owner Name:	(201) 014-		Dwner Address:		Phone:
	5 PINE TREE IND PKWY	JLTS VIII LLC		- 1	59 CENTRE ST		T none.
Busir	ness Name:	Contractor Name:			Contractor Address:		Phone
WB	3 Mason	TBD					
Lesse	ee/Buyer's Name	Phone:		P	Permit Type: Commercial		
Cor	nosed Use: mmercial - "WB MASON" Inter k addition, & second floor addi	· · · · · · · · · · · · · · · · · · ·	ading I	nterio	I Project Description: r renovation, interi floor addition for	or loading dock add	lition, & 12,000 sq ft
	ept: Zoning Status:	Approved with Condition	ns Revi e	ewer:	Marge Schmucka	al Approval I	Date: 09/14/2009 Ok to Issue: ✓
	Separate permits shall be require	red for any new signage.					
,	This permit is being approved owork.	on the basis of plans subm	itted. Any	deviat	ions shall require a	a separate approval	before starting that
	Please note that the "retail" asp as defined in a letter from Attor uses, this office shall be notifie	rney Thomas E. Behenna o	of Cohasset	, MA			
	ept: Building Status:	Approved with Condition	ns Revi o	ewer:	Jeanine Bourke	Approval I	Date: 12/22/2009 Ok to Issue: ✓
	All penetratios through rated as or UL 1479, per IBC 2003 Sec		d by an app	roved	firestop system in	stalled in accordance	ce with ASTM 814
	Separate permits are required for need to be submitted for approve			fire a	larm or HVAC or	exhaust systems. Se	parate plans may
	Application approval based upor requires separate review and approved the separate review and appro		y applicant	with s	ubsequent revision	ns Any deviation fi	rom approved plans
	ept: Fire Status:	Approved with Condition	ns Revi e	ewer:	Capt Keith Gauti	reau Approval I	Date: 09/17/2009 Ok to Issue: ✓
	Fire extinguishers required. Ins	tallation per NFPA 10					
2)	System acceptance and commis Department. Call 874-8703 to	ssioning must be co-ordina	ited with ala	arm an	nd suppression syst	tem contractors and	the Fire
	The Fire Department will requi		ll Fire Dena	ırtmen	t Connections on t	he exterior of the b	uilding.
•	Fire department sprinkler conne	• .	•				
•	•	• •	ian oc appir	oveu i	n writing by the p	to vention bureau.	
=	Application requires State Fire	• •	AIDDA 15				
	The sprinkler system shall be in		i NFPA 13.				
7)	All construction shall comply v	vith NFPA 101					
8)	Installation of a Fire Alarm sys	tem requires a Knox Box t	to be install	ed per	city crdinance		

9) The fire alarm system shall comply with NFPA 72 and Fire Department Technical Standard. A compliance letter is required.

11 The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance. Compliance letters are required.

10 A single source supplier should be used for all through penetrations.

ontractor Name: Co TBD hone: Pe	ivision.	Phone d alike, labeled
FPA 72 should be stored in an approved box connection per city ordinance. nall be as approved be City Electrical D tested at the electrical panel on the samined.	Commercial d cabinet located at the FACP and keye ivision.	d alike, labeled
FPA 72 should be stored in an approved box connection per city ordinance. nall be as approved be City Electrical D tested at the electrical panel on the samined.	Commercial d cabinet located at the FACP and keye ivision.	d alike, labeled
FPA 72 should be stored in an approved box connection per city ordinance. nall be as approved be City Electrical D tested at the electrical panel on the samined.	d cabinet located at the FACP and keye	d alike, labeled
box connection per city ordinance. nall be as approved be City Electrical D tested at the electrical panel on the sam ined. n for maintenance or repair, the system s	ivision.	d alike, labeled
ed. rs a fire watch shall be in place. 8576.	shall be checked at the end of each day	
it is required.		
is required.		
-		
		
ding Reviewer:		te: Ok to Issue:
ding Reviewer:		ite: Ok to Issue:
ding Reviewer:	• •	te: Ok to Issue:
ding Reviewer:		te: Ok to Issue:
proved with Conditions Reviewer:		te: 12/11/2009 Ok to Issue: ✓
en Reviewer:	* 1	te: Ok to Issue:
	it is required. is required. required ding Reviewer: ding Reviewer: ding Reviewer:	it is required. is required. required ding Reviewer: Approval Da oroved with Conditions Reviewer: Philip DiPierro Approval Da en Reviewer: Eric Giles Approval Da

Location of Construction:	Owner Name:	Owner Name: Ov		Phone:	
106 PINE TREE IND PKWY	JLTS VIII LLC	JLTS VIII LLC 5			
Business Name:	Contractor Name:		Contractor Address:	Phone	
WB Mason	TBD				
Lessee/Buyer's Name	Phone:	Phone:			
		Commercial			

11/2/2009-jmb: Left vcmsg for Chris Meehan at WB Mason for details including Geotech report, ladder to new roof hatch, drawings for metal bldg. (Chief Metal Buildings), waiver for plumbing fixtures, B window tempered if under 60" in stair #1, statement of special inspections.

11/4/2009-jmb: Returned call to Bob Turner discussed required submissions, added section showing the existing interior loading dock w/mezzanine not shown on plan 5.1(cc). He will have Matt Pelletier follow up on all, but the plans for the steel bldg. Are on order. Requested a foundation only permit, advised he speak with Eric G. For planning requirements.

11/6/2009-jmb: Received via email the letters for waiver request and granting for the bathroom fixture count. Also see email string about the allowance for a fixed ladder to access rooftop for HVAC maintenance per the IMC 2003.

11/16/2009-jmb: Received via email the comcheck for building envelope.

11/25/2009-jmb: Received via mail the documents for statement of special inspections and structural affadavit from the engineer.

12/17/2009-jmb: Received via mail plan from BKA for foundation revision and plans from Turner for the Chief Metal Bldg. Stamped plans

From:

Eric Giles

To: Date: Schmuckal, Marge 9/14/2009 8:17:01 AM

Subject:

Re: 106 Pine Tree Industrial Pkwy

We approved this in May but have not recieved the final set of plans or CAD drawings.

Eric Giles, AICP, LEED AP Planner

City of Portland

Department of Planning and Urban Development

>>> Marge Schmuckal 9/11/2009 2:52:25 PM >>>

What is the status of this site plan application #2009-0037? We have a permit application for the work.

Marge

CC: DiPierro, Philip

General Building Permit Application

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

Location/Address of Construction: 106 ri	ne Tree Industrial Parkway, Po	rtland, ME
Total Square Footage of Proposed Structure/A 43,138 S.F. (54,141 S.F.		
Tax Assessor's Chart, Block & Lot	Applicant *must be owner, Lessee or Buye	r* Telephone:
Chart# Block# Lot#	Name Ed Gagne, Owner	207-252-5112
204 A 3	Address 73 Industrial Park Roa	ad
	City, State & Zip Saco, ME 04072	2
Lessee/DBA (If Applicable)	Owner (if different from Applicant)	Cost Of
	Name JLTS VIII L.L.C.	Work: \$ 1,200,000
	Address 106 Pine Tree Industrial Parkway	C of O Fee: \$
	City, State & Zip Portland, ME 04102	Total Fee: \$ 12,095
Current legal use (i.e. single family)Indus	trial / Business	
If vacant, what was the previous use?	ogo / Managartila / Stangar	
Proposed Specific use: Busin Is property part of a subdivision? No		
Project description:	II yes, picase name	
The project consists of an int	erior renovation and an interi	or loading dock
addition. The renovation incl		
of Office space.		
Contractor's name:		
Address:		
City, State & Zip	T	elephone:
Who should we contact when the permit is read	y: To	elephone:
Mailing address:		
Please submit all of the information	outlined on the applicable Checkli	st. Failure to
	automatic denial of your permit.	
order to be sure the City fully understands the f	ull scope of the project, the Planning and D	evelopment Department
ay request additional information prior to the iss		
us form and other applications visit the Inspection ivision office, room 315 City Hall or call 874-8703.		
nereby certify that I am the Owner of record of the na	med property, or that the owner of record author	prizes the proposed work and
at I have been authorized by the owner to make this a	pplication as his/her authorized agent. I agree t	o conform to all applicable
ws of this jurisdiction. In addition, if a permit for worl	k described in this application is issued, I certify	that the Code Official's
thorized representative shall have the authority to ent- ovisions of the codes applicable to this permit.	er all areas covered by this permit at any reasona	ble hour to enforce the
		•
ignature: [[][][][]	Date: August 21, 2009	
This is not a permit; you may n	ot commence ANY work until the perm	it is issue

myEMAILsignature Page 1 of 1

Jeanie Bourke - Tempered glass revision

From: Matt Pelletier <mpelletier@bkaarchs.com>
To: leanie Bourke <IMB@portlandmaine.gov>

Date: 12/8/2009 5:11 PM
Subject: Tempered glass revision

CC: Bob Turner <rturner@turnerbrothers.com>

Jeanie,

The attached drawings are changing the glass in the stairwell to tempered at your request. Thank you,

Matthew Pelletier, LEED APProject Manager

B K A Architects, Inc. 142 Crescent Street Brockton, MA 02302

tel: 508 . 583 . 5603 ext 305 fax: 508 . 584 . 2914 www.bkaarchitects.com

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Dept. of Building Inspections

City of Portland Maine



Strengthening a Remarkable City, Building a Community for Life . www.portlandmaine.gov

Director of Planning and Urban Development Penny St. Louis Littell

Matthew Pelletier BKA Architects 142 Crescent St. Brockton, MA 02302

Re: Toilet Rooms W.B. Mason Portland, Me.

Dear Mr. Pelletier,

I received your letter requesting a waiver to use the 2006 Uniform Plumbing Code, specifically the Occupant Load Factor Table. The City of Portland, currently uses the Maine State Plumbing Code based on the UPC 2000. Based on the 2006 UPC Table A your occupant load would be reduced from 365 to 90 occupants. With the current use of the building and the proposed sale of office furniture setups, these numbers more accurately reflect you use.

After reviewing your request, The City of Portland is granting your request to use the 2006 UPC-Table A Occupant Load Factor solely for the purpose of determining the sink and toilet count. All egress issues shall be determined by the more restrictive IBC2003 and NFPA 101 Life Safety Code.

Singerely, Christopher Hanson CEO/Plan reviewer City of Portland, Me.04101 207-874-8696

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NOV -6 2009

City of Building Inspections

Room 315 - 389 Congress Street- Portland, Maine 04101 (207) 874-8715 - Fax: 8748716 - TTY: 874-8936

BKA Architects, Inc. 142 Crescent Street Brockton, MA 02302



Architecture + Interiors

tel: 508.583.5603 fax: 508.584.2914 email:<u>bka@bkaarchs.com</u> www.bkaarchs.com

2/10/09

Christopher Hanson
City of Portland Code Enforcement Office
389 Congress Street
Portland, ME 04101

Re: Toilet Rooms
W.B.. Mason
Portland, ME

BKA Reference No.: 208162

Dear Mr. Hanson,

We have reviewed the 2006 Uniform Plumbing Code and the addition of Table A Occupant Load Factor. This table states 200 square feet per person for Group M, 200 square feet per person for Group B, and 5,000 square feet per person for Group S. Based on this table, our occupant load would be reduced from 365 occupants down to 90 occupants re: the plumbing fixture counts. The occupant load factor table calculation would reduce the required toilet room fixture count from the current UPC 2000 requirement of 9 Men's fixtures and 10 Women's fixtures to 5 Men's fixtures and 5 Women's fixtures for the building.

It is our hope that you would allow the above mentioned project to utilize the 2006 Uniform Plumbing Code Table A Occupant Load as a performance standard in conjunction with the Maine State Internal Plumbing Code. We appreciate you taking your time to review this issue again.

Our request to alter the occupant load based on the 2006 UPC - Table A Occupant Load Factor is meant solely for the purpose of determining the sink and toilet fixture count. All egress issues shall be based on an occupant load as determined by the more restrictive of the IBC 2003 and the NFPA 101 Life Safety Code.

Please do not hesitate to call with any questions or concerns.

Very truly yours,

Matthew Pelletier Project Manager RECEIVED

NOV - 6 2009

Dept. of Building Inspections

City of Portland Mains

myEMAILsignature Page 1 of 1

Jeanie Bourke - WB Mason - Portland

From: Matt Pelletier <mpelletier@bkaarchs.com>
To: leanie Bourke <IMB@portlandmaine.gov>

Date: 11/16/2009 11:04 AM Subject: WB Mason - Portland

Jeanie,

We've had to make a change from the 2003 IECC prescriptive requirement found in table 802.2 (33). R-30 will not fit within the roof purlins selected, so I have run the DOE's Com-Check calculation to verify that R-19 in the roof is acceptable. The walls have been increased to R-19 from the required R-13, and the roof has been decreased to R-19 from the required R-30. The attached com-check report verifies the substitutions are 9% above the 2003 IECC requirements.

Thank you,

--

Matthew Pelletier, LEED AP Project Manager

B K A Architects, Inc. 142 Crescent Street Brockton. MA 02302

tel: 508 . 583 . 5603 ext 305 fax: 508 . 584 . 2914 www.bkaarchitects.com

PECEIVED

Nov 16 2000

City of Building Inspections



2003 IECC

Report Date: 11/16/09

Data filename: P:\Arch_Proj\208162\100_Admin\Misc_Project_Docs\8162_comcehck.cck

Section 1: Project Information

Project Title: WB Mason Addition

Construction Site:

106 Pine Tree Industrial Parkway

WB Mason Portland, ME 04102 106 Pine Tree Industrial Parkway

Portland, ME 04102 207-252-5112

Owner/Agent:

Portland, Maine

Ed Gagne

Designer/Contractor: Matthew Pelletier **BKA Architects** 142 Crescent Street Brockton, MA 02302 508-583-5603

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Dept. of Bullding Inspections

City of Portland Maine

Section 2: General Information

Building Location (for weather data):

Climate Zone: Heating Degree Days (base 65 degrees F): Cooling Degree Days (base 65 degrees F): **Project Type:**

Vertical Glazing / Wall Area Pct.:

7378

Addition

Activity Type(s) Storage, Industrial and Commercial Floor Area 7000

Section 3: Requirements Checklist

Envelope PASSES: Design 9% better than code

Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof 1: Metal Roof with Thermal Blocks	7000	0.0	19.0	0.051	0.053
Exterior Wall 1: Metal Wall without Thermal Blocks	3030	0.0	19.0	0.050	0.075
Door 1: Solid	42	_		0.400	0.122
Door 2: Overhead	1153			0.300	0.122
Floor 1: Slab-On-Grade:Unheated, Vertical 4 ft.	253	_	8.0		

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

Air Leakage, Component Certification, and Vapor Retarder Requirements:

- 1. All joints and penetrations are caulked, gasketed or covered with a moisture vapor-permeable wrapping material installed in accordance with the manufacturer's installation instructions.
- 2. Windows, doors, and skylights certified as meeting leakage requirements.
- ☐ 3. Component R-values & U-factors labeled as certified.
- 4. Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation.
- 5. Stair, elevator shaft vents, and other dampers integral to the building envelope are equipped with motorized dampers.
- ☐ 6. Cargo doors and loading dock doors are weather sealed.
- __ 7. Recessed lighting fixtures are: (i) Type IC rated and sealed or gasketed; or (ii) installed inside an appropriate air-tight assembly with a 0.5 inch clearance from combustible materials and with 3 inches clearance from insulation material.

Project Title: WB Mason Addition Report date: 11/16/09 Data filename: P:\Arch_Proj\208162\100_Admin\Misc_Project_Docs\8162_comcehck.cck Page 1 of 2

□ ^{8.}	Building entrance doors have a vestibule and equipped with closing devices. <i>Exceptions:</i>
	Building entrances with revolving doors.
	Doors that open directly from a space less than 3000 sq. ft. in area.
☐ 9.	Vapor retarder installed.

Section 4: Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2003 IECC requirements in COMcheck Version 3.5.0 and to comply with the mandatory requirements in the Requirements Checklist.

MATTHEW PELLETIER, PROS. MNOR Meller Signature

11/16/09 Date

RECEIVED Dept. of Building Inspections
City of Portland Maine

Project Title: WB Mason Addition Data filename: P:\Arch_Proj\208162\100_Admin\Misc_Project_Docs\8162_comcehck.cck Report date: 11/16/09 Page 2 of 2 myEMAILsignature Page 1 of 3

Jeanie Bourke - Re: WB Mason - Roof Ladder

From: Jeanie Bourke To: Matt Pelletier

Date: 11/9/2009 11:16 AM

Subject: Re: WB Mason - Roof Ladder

Thanks Matt, here is the code section Jeanie

>>> Matt Pelletier <mpelletier@bkaarchs.com> 11/06 11:27 AM >>> Jeanie,

I was unaware Portland adopted the 03 IMC. Everything I found on-line still referenced the 1993 NMC. I will update my title sheet. I took a quick look around our office and could not find a copy of the 03 IMC, if you could fax or email section 306.5 I would appreciate it.

There is a detail of the roof hatch and the ladder on sheet A3.1, and the new roof access hatch is located on sheets A2.1, A2.2, and A3.1. If you'd like to see more information on the ladder I'd be happy to issue an addendum.

Thank you,

Matthew Pelletier, LEED AP

Project Manager

B K A Architects, Inc. 142 Crescent Street Brockton, MA 02302

tel: 508 . 583 . 5603 ext 305 fax: 508 . 584 . 2914 www.bkaarchitects.com

Jeanie Bourke wrote:

Hi Matt,

Thanks for researching this code question. This led me to reference the IMC 2003 adopted by the city....good place to find this answer.

Section 306.5 Equipment and appliances on roofs or elevated structures describes the use of permanent ladders installed to provide access to comply with 7 criteria of design.

It is based on the OSHA requirements, of which of the 7 criteria does not require a cage enclosure. As long as it meets this criteria, I don't see why a cage could not be installed as well.

file://C:\Documents and Settings\jmb\Local Settings\Temp\GW\}00001.HTM

11/30/2009

myEMAILsignature Page 2 of 3

Let me know if you need a copy of this section of the IMC for design criteria. Can you please provide an addendum for the design of the ladder. Also, It is not clear on plan A5.1 where this is.

Let me know if you have any questions.

Jeanie Bourke Code Enforcement Officer/Plan Reviewer

City of Portland
Planning & Urban Development Dept./ Inspections Division
389 Congress St. Rm 315
Portland, ME 04101
jmb@portlandmaine.gov
(207)874-8715

>>> Matt Pelletier >> I1/05 6:27 PM >>> Jeanie,

To follow up on our discussion this morning on the roof ladder, I would agree with you that the IBC does not seem to allow for roof ladders. On the same note, though, I could not site a section that forbids it either. My understanding is that section 1009.12 is not requiring us to provide any permanent access to the roof at all. In this case the owner would have to prop a ladder against either the roof hatch or the exterior of the building. What we're proposing would provide a stable, secure, and permanently installed, ladder with a protective cage. It would seem to be a safer option for everyone. Trying to find some backup in the code for this stance, though, I found two possibilities.

First, I looked into the 2003 National Mechanical Code for any RTU access requirements. Section M-407.3, sets up some guidelines for RTU access and while it doesn't reference the use of ladders over stairs it does reference the 2003 BOCA, section 1027.0, for access to roofs. 1027.1 Allows for buildings under 3 stories in height to use either ladders or an alternating tread stair to access an unoccupied roof.

Second, I went to the 2003 Life Safety Code. I know your office is on the IBC 03 and the State Fire Marshall's Office is on the Life Safety Code, but my understanding is that the Life Safety code takes precedence with regards to fire safety and egress. Section 7.2.8.3.4 requires access to a roof with a pitch of less than 1 to 6 by means of a fire escape ladder or an alternating tread device. Section 7.2.9, Fire Escape Ladders, then goes on further to say that the use of a ladder is permitted for access to unoccupied roofs, which would seem to not only allow the use of a ladder in our situation but require it.

Please let me know what you think, unfortunately there doesn't seem to be a black and white answer to the issue, but I do feel we have some semblance of a leg to stand on. If you would like a more formal letter you can respond to, just let me know, I'd be happy to draft something up in the morning. Thank you for

myEMAILsignature Page 3 of 3

taking the time to review this issue, I appreciate the chance to have our interpretation heard.

Sincerely,

Matthew Pelletier, LEED AP Project Manager

B K A Architects, Inc. 142 Crescent Street Brockton, MA 02302

tel: 508 . 583 . 5603 ext 305 fax: 508 . 584 . 2914 www.bkaarchitects.com

sufficient lateral-bearing capacity to resist collapse. The clear access opening dimensions shall be a minimum of 22 inches by 30 inches (559 mm by 762 mm), where such dimensions are large enough to allow removal of the largest appliance.

Exception: The passageway is not required where the level service space is present when the access is open and the appliance is capable of being serviced and removed through the required opening.

306.4.1 Electrical requirements. A lighting fixture controlled by a switch located at the required passageway opening and a receptacle outlet shall be provided at or near the appliance location in accordance with the ICC *Electrical Code*.



306.5 Equipment and appliances on roofs or elevated structures. Where equipment and appliances requiring access are installed on roofs or elevated structures at a height exceeding 16 feet (4877 mm), such access shall be provided by a permanent approved means of access, the extent of which shall be from grade or floor level to the equipment and appliances' level service space. Such access shall not require climbing over obstructions greater than 30 inches (762 mm) high or walking on roofs having a slope greater than 4 units vertical in 12 units horizontal (33-percent slope).

Permanent ladders installed to provide the required access shall comply with the following minimum design criteria:

- 1. The side railing shall extend above the parapet or roof edge not less than 30 inches (762 mm).
- Ladders shall have rung spacing not to exceed 14 inches (356 mm) on center.
- 3. Ladders shall have a toe spacing not less than 6 inches (152 mm) deep.
- 4. There shall be a minimum of 18 inches (457 mm) between rails.
- 5. Rungs shall have a minimum 0.75-inch (19 mm) diameter and be capable of withstanding a 300-pound (136.1 kg) load
- 6. Ladders over 30 feet (9144 mm) in height shall be provided with offset sections and landings capable of withstanding 100 pounds (488.2 kg/m²) per square foot.
- Ladders shall be protected against corrosion by approved means.

Catwalks installed to provide the required access shall be not less than 24 inches (610 mm) wide and shall have railings as required for service platforms.

Exception: This section shall not apply to Group R-3 occupancies.

306.6 Sloped roofs. Where appliances are installed on a roof having a slope of three units vertical in 12 units horizontal (25-percent slope) or greater and having an edge more than 30 inches (762 mm) above grade at such edge, a level platform shall be provided on each side of the appliance to which access is required by the manufacturer's installation instructions for service, repair or maintenance. The platform shall not be less than 30 inches (762 mm) in any dimension and shall be provided with guards in accordance with Section 304.10.

SECTION 307 CONDENSATE DISPOSAL

307.1 Fuel-burning appliances. Liquid combustion by-products of condensing appliances shall be collected and discharged to an approved plumbing fixture or disposal area in accordance with the manufacturer's installation instructions. Condensate piping shall be of approved corrosion-resistant material and shall not be smaller than the drain connection on the appliance. Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than one-eighth unit vertical in 12 units horizontal (1-percent slope).

307.2 Evaporators and cooling coils. Condensate drain systems shall be provided for equipment and appliances containing evaporators or cooling coils. Condensate drain systems shall be designed, constructed and installed in accordance with Sections 307.2.1 through 307.2.4.

307.2.1 Condensate disposal. Condensate from all cooling coils and evaporators shall be conveyed from the drain pan outlet to an approved place of disposal. Condensate shall not discharge into a street, alley or other areas so as to cause a nuisance.

307.2.2 Drain pipe materials and sizes. Components of the condensate disposal system shall be cast iron, galvanized steel, copper, cross-linked polyethylene, polybutylene, polyethylene, ABS, CPVC or PVC pipe or tubing. All components shall be selected for the pressure and temperature rating of the installation. Condensate waste and drain line size shall be not less than ³/₄-inch (19 mm) internal diameter and shall not decrease in size from the drain pan connection to the place of condensate disposal. Where the drain pipes from more than one unit are manifolded together for condensate drainage, the pipe or tubing shall be sized in accordance with an approved method. All horizontal sections of drain piping shall be installed in uniform alignment at a uniform slope.

307.2.3 Auxiliary and secondary drain systems. In addition to the requirements of Section 307.2.1, a secondary drain or auxiliary drain pan shall be required for each cooling or evaporator coil where damage to any building components will occur as a result of overflow from the equipment drain pan or stoppage in the condensate drain piping. One of the following methods shall be used:

- 1. An auxiliary drain pan with a separate drain shall be provided under the coils on which condensation will occur. The auxiliary pan drain shall discharge to a conspicuous point of disposal to alert occupants in the event of a stoppage of the primary drain. The pan shall have a minimum depth of 1.5 inches (38 mm), shall not be less than 3 inches (76 mm) larger than the unit or the coil dimensions in width and length and shall be constructed of corrosion-resistant material. Metallic pans shall have a minimum thickness of not less than 0.0276-inch (0.7 mm) galvanized sheet metal. Nonmetallic pans shall have a minimum thickness of not less than 0.0625 inch (1.6 mm).
- 2. A separate overflow drain line shall be connected to the drain pan provided with the equipment. Such overflow drain shall discharge to a conspicuous point of disposal to alert occupants in the event of a stoppage

BKA Architects Inc. 142 Crescent Street Brockton, MA 02302

Architecture + Interiors

ba

tel: 508.583.5603 fax: 508.584.2914 e-mail:bka@bkaarchs.com www.bkaarchs.com

LETTER OF TRANSMITTAL

	09	November 24, 2009	spections	TO: Portland Building Inspections			
		WB Mason		389 Congress Street Portland, ME 04101			
		208162		ATT.: Jeanie Bourke			
					T:	WE TRANSMI	
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	originals	Review & community Specifications Product Literature	Project No.: Under separate cover a: Information Other: Samples Shop Dwg Repro's	your	nie Bourke IT: rewith accordance with y st: proval e VING: awings	ATT.: Jear WE TRANSMI He In a requese FOR YOUR: Ap Use THE FOLLOW	

Upon review of the final geotech report, our structural engineer has indicated some changes will likely need to be made to the interior footings for the 2nd floor addition. The garage addition design has been reviewed based on the geotech info. A copy of the final geotech report will be sent to your office

NOV 25 2009

Dept. of Building Inspections
City of Portland Maine

REMARKS

Signed: Matthew Pelletier

- nlzybg

Project: WB Mason – Portland, ME

Date Prepared: 11-13-09

Structural Statement of Special Inspections

Project:

WB Mason Addition and Renovation

Location:

106 Pine Tree Industrial Parkway, Portland, ME

Owner:

JLTS VIII LLC

This Statement of Special Inspections encompass the following discipline: Structural

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Structural Special Inspection Coordinator (SSIC) and the identity of other approved agencies to be retained for conducting these inspections and tests.

The Structural Special Inspection Coordinator shall keep records of all Structural inspections and shall furnish inspection reports to the Building Code Official (BCO) and the Structural Registered Design Professional in Responsible Charge (SRDP). Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Structural Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official and the Structural Registered Design Professional in Responsible Charge at an interval determined by the SSIC and the BCO.

A *Final Report of Special Inspections* documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted to the BCO prior to issuance of a Certificate of Use and Occupancy.

Owner's Authorization:		J	
		Building Code Offic	ial's Acceptance:
Oignature /		Date	THEODORE GREENLAW No. 3862 CENSE OF MANAGEMENT OF MANAGEM
Signature		///24/09 11/13/09 Date	PRO CENSED WILLIAM
(type or print name of the Structural F Professional in Responsible Charge)			# GREENLAW ★ SHEENLAW
Ted Greenlaw, P.E.			III 6
Prepared by: Tep Green	lan PS		TATE OF MAIN!



Project: WB Mason – Portland, ME Date Prepared: 11-13-09

List of Agents

Structural Statement of Special Inspections (Continued)

Project: WB Mason Renovation and	i Aaaition	
Location: 106 Pine Tree Industrial P	arkway, Portland, ME	
Owner: JLTS VIII LLC		
This Statement of Special Inspections encompass	the following discipline: Structural	
This Statement of Special Inspections encompass	the following discipline. Structural	
(Note: Statement of Special Inspections for other	er disciplines may be included under a se	parate cover)
This Statement of Special Inspections / Quality A		
	C	
Soils and Foundations		
Cast-in-Place Concrete		
==		
Precast Concrete System		
Masonry Systems		
Structural Steel		
Wood Construction	Special Cases	
Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. STRUCTURAL Special Inspections	Ted Greenlaw, PE	183 Columbia Road
Coordinator (SSIC)		Hanover, MA 02339
		ph. 781-826-8369
		fx. 781-826-8399
		tedgreenlawpe@yahoo.com
2. Special Inspector (SI 1)	Terracon Consultants, Inc.	15 Holly Street, Unit 105
	(Geotechnical Services)	Scarborough, ME 04074
		ph. 207-396-5374
		fx. 207-396-5394
3. Special Inspector (SI 2)		
		1
4. Testing Agency (TA 1)	Terracon Consultants, Inc.	15 Holly Street, Unit 105
	(Construction Materials Testing)	Scarborough, ME 04074
		ph. 207-396-5374
		fx. 207-396-5394
		
5. Testing Agency (TA 2)		
6. Other (O1)		
• •		1
	_L	

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and <u>not</u> by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

Project: WB Mason - Portland, ME

Date Prepared: 11-13-09

Structural Schedule of Special Inspections

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided to the Special Inspector for their records. NOTE VERIFICATION THAT QUALIFIED INDIVIDUALS ARE AVAILABLE TO PERFORM STIPULATED TESTING AND/OR INSPECTION SHOULD BE PROVIDED PRIOR TO SUBMITTING STATEMENT. AGENT QUALIFICATIONS IN SCHEDULE ARE SUGGESTIONS ONLY; FINAL QUALIFICATIONS ARE SUBJECT TO THE DISCRETION OF THE REGISTERED DESIGN PROFESSIONAL PREPARING THE SCHEDULE.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge or Special Inspector of Record deems it appropriate that the individual performing a stipulated test or inspection have a specific certification, license or experience as indicated below, such requirement shall be listed below and shall be clearly identified within the schedule under the Agent Qualification Designation.

PE/SE Structural Engineer - a licensed SE or PE specializing in the design of building structures

PE/GE Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations EIT

Engineer-In-Training -- a graduate engineer who has passed the Fundamentals of Engineering

examination

Experienced Testing Technician

ΕTT Experienced Testing Technician - An Experienced Testing Technician with a minimum 5 years

experience with the stipulated test or inspection

American Concrete Institute (ACI) Certification

ACI-CFTT Concrete Field Testing Technician - Grade 1 Concrete Construction Inspector ACI-CCI Laboratory Testing Technician - Grade 1&2 ACI-LTT ACI-STT Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWI Certified Welding Inspector Certified Structural Steel Inspector AWS/AISC-SSI

American Society of Non-Destructive Testing (ASNT) Certification

ASNT Non-Destructive Testing Technician - Level II or III.

International Code Council (ICC) Certification

ICC-SMSI Structural Masonry Special Inspector **ICC-SWSI** Structural Steel and Welding Special Inspector Spray-Applied Fireproofing Special Inspector **ICC-SFSI ICC-PCSI** Prestressed Concrete Special Inspector **ICC-RCSI** Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)

NICET-CT Concrete Technician - Levels I, II, III & IV NICET-ST Soils Technician - Levels I, II, III & IV

Structural Schedule of Special Inspections SOILS & FOUNDATION CONSTRUCTION

VERIFICATION AND INSPECTION IBC Section 1704.7, 1704.8, 1704.9	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Verify existing soil conditions, fill placement and load bearing requirements						
 a. Prior to placement of prepared fill, determine that the site has been prepared in accordance with the approved soils report. 		Р	IBC 1704.7.1		PE/GE, EIT or ETT	
 b. During placement and compaction of fill material, verify material being used and maximum lift thickness comply with the approved soils report. 		Р	IBC 1704.7.2		PE/GE, EIT or ETT	
 c. Test in-place dry density of compacted fill complies with the approved soils report. 		р	IBC 1704.7.2		PE/GE, EIT or ETT	
2. Pile foundations:	4				an Mary	
 a. Observe and record procedures for static load testing of piles. 		N	IBC 1704.8		PE/GE, EIT or ETT	
 b. Observe and record procedures for dynamic load testing of piles. 		N			PE/GE, EIT or ETT	
 c. Record installation of each pile and results of load test. Include cutoff and tip elevations of each pile relative to permanent reference. 		N			PE/GE, EIT or ETT	
d. Test welded splices of steel piles			AWS D1.1		AWS-CWI	
3. Pier foundations: Verify installation of pier foundations for buildings assigned to Seismic Design Category C, D, E or F.		С	IBC 1704.9		PE/GE, EIT or ETT	
a. Verify pier diameter and length		С			PE/GE, EIT or ETT	
b. Verify pier embedment (socket) into bedrock		P			PE/GE, EIT or ETT	
c. Verify suitability of end bearing strata		P			PE/GE, EIT or ETT	

Structural Schedule of Special Inspections CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION IBC Section 1704.4	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGEN T	AGENT QUALIFICATION	TASK COMPLETED
Inspection of reinforcing steel, including prestressing tendons, and placement		Р	ACI 318: 3.5, 7.1-7.7		PE/SE or EIT	
Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5B			Welding of Reinf Not Allowed		AWS-CWI	
3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased		С	IBC 1912.5		PE/SE or EIT	
Verifying use of required design mix		Р	ACI 318: Ch 4, 5.2-5.4		PE/SE or EIT	
5. At time fresh concrete is sampled to fabricate specimens for strength test, perform slump and air content test and temperature		С	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8		ACI-CFTT or ACI-STT	
6. Inspection of concrete and shotcrete placement for proper application techniques		С	ACI 318: 5.9, 5.10		PE/SE or EIT	
7. Inspection for maintenance of specified curing temperature and techniques		Р	ACI 318: 5.11- 5.13		PE/SE or EIT	
8. Inspection of Prestressed Concrete						
a. Application of prestressing force.		N	ACI 318: 18.20		PE/SE or EIT	
b. Grouting of bonded prestressing tendons in seismic force resisting system		N	ACI 318: 18.18.4		PE/SE or EIT	
Erection of precast concrete members		N	ACI 318: Ch 16		PE/SE or EIT	
10. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms beans and structural slabs		N	ACI 318: 6.2		ACI-STT	

VERIFICATION AND INSPECTION IBC Section 1704.3	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
Material verification of high-strength bolts, nuts and washers:						
a. Identification markings to conform to ASTM standards specified in the approved construction documents.		S	Applicable ASTM material specifications; AISC 335, Section A3.4; AISC LRFD, Section A3.3		PE/SE or EIT	
b. Manufacturer's certificate of compliance required.		S			PE/SE or EIT	
2. Inspection of high-strength bolting			n. Tarana			planting (4)
a. Bearing-type connections.		Р	AISC LRFD Section M2.5		AWS/AISC-SSI	
b. Slip-critical connections.		C or P (method dependent)	IBC Sect 1704.3.3		AWS/AISC-SSI	
3. Material verification of structural steel (IBC Sect 1708.4):						HT.
 a. Identification markings to conform to ASTM standards specified in the approved construction documents. 		S	ASTM A 6 or ASTM A 568 IBC Sect 1708.4		PE/SE or EIT	
b. Manufacturers' certified mill test reports.		s	ASTM A 6 or ASTM A 568 IBC Sect 1708.4		PE/SE or EIT	
4. Material verification of weld filler materials:			SCHOOL STATE		ELEVATION OF	
a. Identification markings to conform to AWS specification in the approved construction documents.		S	AISC, ASD, Section A3.6; AISC LRFD, Section A3.5		PE/SE or EIT	
b. Manufacturer's certificate of compliance required.		S			PE/SE or EIT	
Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project.		S	AWS D1.1		PE/SE or EIT	
6. Inspection of welding (IBC 1704.3.1): a. Structural steel:						
1) Complete and partial penetration groove welds.		C			AWS-CW1	
2) Multipass fillet welds.		С	AWS D1.1		AWS-CWI	
3) Single-pass fillet welds> 5/16"		С	AWS D1.1		AWS-CWI	
4) Single-pass fillet welds< 5/16"		P			AWS-CWI	
5) Floor and deck welds.		P	AWS D1.3		AWS-CWI	
b. Reinforcing steel (IBC Sect 1903.5.2):	1			150	12 TEU 12 TH	
1) Verification of weldability of reinforcing steel other than ASTM A706.		С				
 Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement. 		С	AWS D1.4 ACI 318: 3.5.2		AWS-CWI	
3) Shear reinforcement.		С	ACT 518: 3.5.2		AWS-CWI	
4) Other reinforcing steel.		Р			AWS-CWI	
7. Inspection of steel frame joint details for compliance (IBC Sect 1704.3.2) with approved construction documents:						
a. Details such as bracing and stiffening.		P			PE/SE or EIT	

Р

P

PE/SE or EIT

PE/SE or EIT

b. Member locations.

c. Application of joint details at each connection.

Structural Schedule of Special Inspection Services FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL

VERIFICATION AND INSPECTION IBC Section 1704.2	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
Fabrications Procedures: Review of fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency. At the completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. OR- AISC Certification		S	Fabricator shall submit one of the two qualifications		PE/SE or EIT	
3. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents.		S	IBC 1704.2.2		PE/SE or EIT	

Structural Schedule of Special Inspections SEISMIC RESISTANCE - STRUCTURAL

VERIFICATION AND INSPECTION IBC Section 1707	Y/N	EXTENT: CONTINUOU S, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Special inspections for seismic resistance. Special inspection as specified in this section is required for the following:			Seismic Design Category: B			
a. The seismic-force-resisting systems in structures assigned to Seismic Design Category C, D, E or F		P	IBC 1707.1		PE/SE or EIT	
2. Structural steel: Continuous special inspection for structural welding in accordance with AISC 341.		Р	IBC 1702.2		AWS-CWI	
3. Structural wood:				u.A.k		
a. Continuous special inspection during field gluing operations of elements of the seismic-force-resist- ing system.	10.1.30	C	IBC 1702.3		PE/SE or EIT	
 b. Periodic special inspections for nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system, including drag struts, braces and hold-downs 		P	IBC 1702.3		PE/SE or EIT	
4. Cold-formed steel framing: Periodic special inspections during welding operations of elements of the seismic-force-resisting system. Periodic special inspections for screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system, including struts, braces, and hold-downs		N				
 Seismic isolation system. Provide periodic special inspection during the fabrication and installation of isolator units and energy dissipation devices if used as part of the seismic isolation system 		N	IBC 1707.8			

Project: WB Mason - Portland, ME Date Prepared: 11/13/09

Quality Assurance Plan - Seismic and Wind

	Design	Category C		
OR SEIS	MIC DES	IGN CATEGORY C OR HIGHER:		-
ctural: The seism Steel I	nic-force-i Braced Fr Moment F walls:	resisting systems Ames and associated connections/anchorage Frames and associated connections CMU Wood Concrete	ge Diaphragms: Floor Roof	
		URANCE FOR WIND RE	ESISTANCE CHECK LIST [IBC 1706]	**************************************
NOT REQUIRED	APPLICABLENOT		Y ASSURANCE PLAN REQUIREMENTS ssurance Plan is required where indicated below)	
NOT RI	APPL			
NOT RI		In wind exposure Categories A an	nd B, where the 3-second-gust basic wind speed is 120 miles p	
		hour (mph) (52.8 m/sec) or greate	nd B, where the 3-second-gust basic wind speed is 120 miles per an ad D, where the 3-second-gust basic wind speed is 110 mph (4)	
	□ ⊠	hour (mph) (52.8 m/sec) or greate In wind exposure Categories C an	and D, where the 3-second-gust basic wind speed is 110 mph (4) Building Code Official's Acceptance:	
ared by:	□ ⊠	hour (mph) (52.8 m/sec) or greate In wind exposure Categories C an	Building Code Official's Acceptance: Signature Di	9

STRUCTURAL AFFIDAVIT

To: Jeanie Bourke, Code Enforcement Officer City of Portland Building Inspections

389 Congress Street Portland, ME 04101

Re: W.B. Mason

106 Pine Tree Industrial Parkway

Portland, ME

Project Number: 208162

I certify that to the best of my knowledge, information and belief, that the structural drawings for the captioned building were designed in accordance with the structural requirements of the 2003 IBC and all other pertinent laws and ordinances established by the State of Maine.

I also certify that I will inspect the work during construction. This will include the inspection and review responsibilities outlined in the 2003 IBC.

I have reviewed the preliminary report from the geotechnical investigation conducted on 11/13/09, and certify the existing design is in compliance with the 2003 IBC and all other pertinent laws and ordinances established by the State of Maine. A copy of the completed geotechnical report will be forward to the Portland Building Department.

Upon completion of the construction, a final inspection affidavit will be issued indicating that the structural scope of work for the captioned building is satisfactory and installed per the drawings.

Ted Greenlaw, PE - No.

Structural Engineer - ME Reg. No.

19 183 Columbia Road, Hanover MA 02339

> SONAL ENG WALL THE STATE OF THE STATE OF

Address

(781) 826-8369

Telephone

November 17, 2009

Date

BKA Architects Inc. 142 Crescent Street Brockton, MA 02302

Architecture + Interiors

tel: 508.583.5603 fax: 508.584.2914 e-mail:bka@bkaarchs.com www.bkaarchs.com



LETTER OF TRANSMITTAL

TO: WB Mason 73 Industrial Park Road Saco, Maine 04072

ATT.: Ed Gagne, Sales Manager

Project: WB Portland

Date: September 3, 2009

Project

	The Ed Gagno,		No.: 208162				
WE TR	ANSMIT:						
	✓ Herewith		Under separate cover via:		-		
	In accordar request:	nce with your			-		
FOR YO	OUR:						
	Approval	Distributi	ion Information	Review & comment			
	☑ Use	☐ Record	☐ Other:		_		
THE FO	OLLOWING:						
	Drawings	☐ Shop Dwg Prir	nts Samples	☐ Specifications ☐ Originals			
	Change Or	der	Shop Dwg Repro's	Product Literature			
	☐ Other	r:					
COPI	IES DAT	E NO.		DESCRIPTION			
2			Permit drawings - for b	uilding department			
1			pdf's on disc				
1			permit application				
	REMARKS						

The building department should only need the one stamped set and the drawing on disc. The other set is for you to hold on to.



Certificate of Design Application

From Designer:	BKA Architects, Inc.				
Date:	August 21, 2009				
Job Name:	W.B. Mason - Office Renovation and Garage Addition				
Address of Construction:	106 Pine Tree Industrial Parkway, Portland, ME				

Job Name.	Renovation and	datage Addition
Address of Construction: 106 Pine Tree Indust	rial Parkway,	Portland, ME
2003 International E Construction project was designed to the		ria listed below:
Building Code & Year IBC 2003 Use Group Classification	(s) Mercantile	(M) / Business (B)/ Storage (S-
Type of ConstructionIIIB	_	
Will the Structure have a Fire suppression system in Accordance with Se	ection 903.3.1 of the	2003 IRC <u>Yes</u>
Is the Structure mixed use? Yes If yes, separated or non separated	rated or non separate	ed (section 302.3) Non-Sep (section 3
Supervisory alarm System? Yes Geotechnical/Soils report re-	quired? (See Section	1802.2) <u>Yes</u>
Structural Design Calculations	Yes	Live load reduction
N/A Submitted for all structural members (106.1 – 106.11)	20_psf	Roof live loads (1603.1.2, 1607.11)
Design Leads on Construction Desarrants (1/02)	42 psf 60 psf	Roof snow loads (1603.7.3, 1608)
Design Loads on Construction Documents (1603) Uniformly distributed floor live loads (7603.11, 1807)		Ground snow load, Pg (1608.2)
Floor Area Use Loads Shown	42	If $Pg > 10$ psf, flat-roof snow load p_f
Office 100 psf	$\frac{1.0}{1.0}$	If $Pg > 10$ psf, snow exposure factor, C_{ℓ}
		If $Pg > 10$ psf, snow load importance factor, J_c
	1.0	Roof thermal factor, $_{G}$ (1608.4)
	N/A	Sloped roof snowload, p ₅ (1608.4)
Wind loads (1603.1.4, 1609)	C	Seismic design category (1616.3)
Analytical Design option utilized (1609.1.1, 1609.6) 100 mph Basic wind speed (1809.3)	<u>OB€</u> 5	Basic seismic force resisting system (1617.6.2)
radio		Response modification coefficient, R _I and
II, 1.0 Building category and wind importance Factor, by table 1604.5, 1609.5) B Wind exposure category (1609.4)	$4 \frac{1}{2}$	deflection amplification factor _{Cd} (1617.6.2)
+/- 0.18 Internal pressure coefficient (ASCE 7)	<u>Simplified</u> 54K	<u>d</u> Analysis procedure (1616.6, 1617.5)
ble 1606.2.2 Component and cladding pressures (1609.1.1, 1609.6.2.2)		Design base shear (1617.4, 16175.5.1)
ble 1609.6 Main force wind pressures (7603.1.1, 1609.6.2.1)	Flood loads (• ,
Earth design data (1603.1.5, 1614-1623)	<u>N/A</u> N/A	Flood Hazard area (1612.3) Elevation of structure
Analytical Design option utilized (1614.1) II Scismic use group ("Category") 35 0.080	Other loads 2000 #	
Spectral response coefficients, N. & SDI (1615.1)	20 psf	Concentrated loads (1607.4)
Site class (1615.1.5)	N/A	Partition loads (1607.5) Misc. loads (Table 1607.8, 1607.6.1, 1607.7,

Building Inspections Division • 389 Congress Street • Portland, Maine 04101 • (207) 874-8703 • FACSIMILE (207) 874-8716 • TTY (207) 874-8936



Designer:	Barry Koretz			
Address of Project:	106 Pine Tree Industrial Parkway			
Nature of Project:	Office Renovation and Garage Addition			

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.



Signature:

President

Firm:

BKA Architects, Inc.

Address:

142 Crescent Street

Brockton, MA. 02302

Phone:

508-583-5603

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

4

Building Inspections Division • 389 Congress Street • Portland, Maine 04101 • (207) 874-8703 • FACSIMILE (207) 874-8716 • TTY (207) 874-8936



Certificate of Design

Date:	August 21, 20	09	
From:	BKA Architect	s, Inc.	
These plans and / o	or specifications covering co	onstruction work on:	
106 Pine T	ree ındustrial Parkway	Portland, ME	

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



Signature: By Kort

Title: President

Firm: BKA Architects, Inc.

Address: 142 Crescent Street

Brockton, MA. 02302

Phone: 508-583-5603

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

	Applicant: WB MASon	Date: 9/14/09
	Address: 106 Particle Ind Plans	C-B-L: Z-5-A-3
	CHECK-LIST AGAINST ZONING	ORDINANCE
\mathcal{D}	late - FUSI-6	Pent 409-0978
Z	one Location - I - M	• •
In	nterior or corner lot -	
Pi	nterior or corner lot- roposed Use/Work-Cover exist Area Con A	ganz (R (7,042#)
Sa	nvage Disposal - Cfy	SA'COMA
Τ.,	of Street Frontage - ex A 60 m	34 911
· Fi	out Yard - 1'fne very 1'of height - N/A	- Addburn Feth
Si	de Yard-1' for every 1'of hought of 2	25/_35/2995
	ojections -	/
	dth of Lot-	
He	1 Area - 10,000 4 hm - 3,395 Acres	
Lo	Coverage (Impervious Surface) 75% MAX	999112
	ea per Family - NA	
Off	e-street Parking - 85 pkg Reg - 95 pkg "S	$\frac{1}{2}$
Loa	ading Bays - lex	
. Site	Plan - # 2909 -0037	
Sho	reland Zoning/Stream Protection - N	
Floo	Panel 12 - Zono	·

yec. 4/22/09

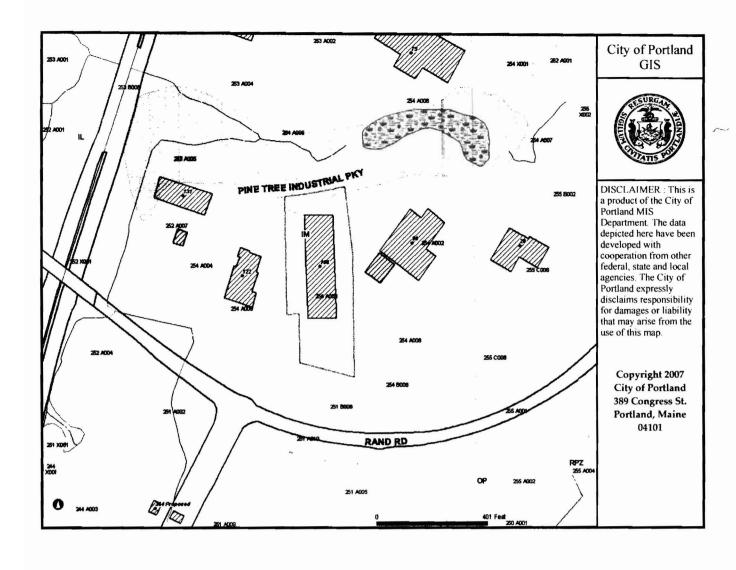
CITY OF PORTLAND, MAINE DEVELOPMENT REVIEW APPLICATION PLANNING DEPARTMENT PROCESSING FORM

RTMENT PROCESSING FORM
Zoning Copy

2009-0037
Application I. D. Number

signature

WB Mason Applicant				21/2009 Oplication Date
59 Center Street, Brockton, MA 02302			w	B Mason Warehouse
Applicant's Mailing Address				oject Name/Description
		106 - 106 P	ine Tree Ind Pkwy, Po	•
Consultant/Agent			Proposed Site	
Applicant Ph: (508) 586-3434 Agent	t Fax:	254 A00300)1	
Applicant or Agent Daytime Telephone, Fa	X	Assessor's F	Reference: Chart-Block	-Lot
Proposed Development (check all that app	oly): New Building	Building Addition	Change Of Use	Residential Office Retail
☐ Manufacturing ☐ Warehouse/Distr		☐ Apt 0 ☐ Condo		cify)
	147886			
Proposed Building square Feet or # of Unit		0 Proposed Total Distu	urbed Area of the Site	IM Zoning
Troposed Building square Feet of # of office				
Check Review Required:				Design Review
✓ Site Plan (major/minor)	Zoning Conditional - PB	Subdivision # of	lots	
Amendment to Plan - Board Review	Zoning Conditional - ZBA	Shoreland	Historic Preserva	DEP Local Certification
	Zoning Conditional - ZBA			Site Location
Amendment to Plan - Staff Review		Zoning Variance	☐ Flood Hazard	Housing Replacement
After the Fact - Major		Stormwater	Traffic Movement	Other
After the Fact - Minor		PAD Review	14-403 Streets Re	eview
Fees Paid: Site Plan \$400.00	Subdivision	Engineer Revi	ew	Date 4/21/2009
Zoning Approval Status:		Reviewer		
Approved	Approved w/Conditions See Attached		Denied	
Approval Date	Approval Expiration	Extension	n to	Additional Sheets
Condition Compliance				Attached
	signature	date		
Performance Guarantee	Required*	☐ Not Req	uired	
* No building permit may be issued until a	performance guarantee has l	been submitted as indi	cated below	
- Borformanaa Cuarantaa Accented				•
Performance Guarantee Accepted	date		amount	expiration date
	uale		amount	expiration date
Inspection Fee Paid	1-1-			-APR 2 2 2009
	date		amount	!
Building Permit Issue			ş.	
	date			
Performance Guarantee Reduced			1 pr - 1	
	date	rem	aining balance	signature
Temporary Certificate of Occupancy		Condition	ns (See Attached)	
	date		•	expiration date
Final Inspection				
This mopestion	date		signature	_
Cortificate Of Occupancy	30.0		o.g. a.a.	
Certificate Of Occupancy	date			
	uate			
Performance Guarantee Released				_
	date		signature	
Defect Guarantee Submitted				
	submitted date		amount	expiration date
Defect Guarantee Released				



http://172.16.0.75/servlet/com.esri.esrimap?ServiceName=arcmap&ClientVersion... 9/14/2009



Planning & Urban Development Department

Penny St. Louis Littell, Director

Planning Division

Alexander Jaegerman, Director

May 20, 2009

W.B. Mason, Inc. Chris Meehan 59 Center St. Brockton, MA 02302

Lester S. Berry, P.E. BH2M Engineers 28 State St. Gorham, ME 04038

RE: 106 Pine Tree Industrial Parkway

CBL: 254 A003001

Application ID: 2009-0037

Dear Mr. Meehan:

On May 20, 2009, the Portland Planning Authority approved the minor site plan for an addition onto the existing office/warehouse building.

The approval is based on the submitted site plan 5/15/09. If you need to make any modifications to the approved site plan, you must submit a revised site plan for staff review and approval.

Please note the following provisions and requirements for all site plan approvals:

- 1. The site shall be developed and maintained as depicted in the site plan and the written submission of the applicant. Modification of any approved site plan or alteration of a parcel which was the subject of site plan approval after May 20, 1974, shall require the prior approval of a revised site plan by the Planning Board or the planning authority pursuant to the terms of this article. Any such parcel lawfully altered prior to the enactment date of these revisions shall not be further altered without approval as provided herein. Modification or alteration shall mean and include any deviations from the approved site plan including, but not limited to, topography, vegetation and impervious surfaces shown on the site plan. No action, other than an amendment approved by the planning authority or Planning Board, and field changes approved by the Public Services authority as provided herein, by any authority or department shall authorize any such modification or alteration.
- 2. The above approvals do not constitute approval of building plans, which must be reviewed and approved by the City of Portland's Inspection Division.
- 3. Final sets of plans shall be submitted digitally to the Planning Division, on a CD or DVD, in AutoCAD format (*,dwg), release AutoCAD 2005 or greater.

389 Congress Street • Part par, Maine 04/01 3509 • Par(207) 374-8721 or 874-8719 • Ex 756-8258 • TTY-874-8936

- 4. A performance guarantee covering the site improvements as well as an inspection fee payment of 2.0% of the guarantee amount and seven (7) final sets of plans must be submitted to and approved by the Planning Division and Public Works prior to the release of the subdivision plat for recording at the Registry of Deeds or prior to the release of a building permit, street opening permit or certificate of occupancy for site plans. If you need to make any modifications to the approved plans, you must submit a revised subdivision or site plan application for staff review and approval.
- 5. The site plan approval will be deemed to have expired unless work in the development has commenced within one (1) year of the approval or within a time period agreed upon in writing by the City and the applicant. Requests to extend approvals must be received before the expiration date
- 6. A defect guarantee, consisting of 10% of the performance guarantee, must be posted before the performance guarantee will be released.
- 7. Prior to construction, a pre-construction meeting shall be held at the project site with the contractor, development review coordinator, Public Work's representative and owner to review the construction schedule and critical aspects of the site work. At that time, the site/building contractor shall provide three (3) copies of a detailed construction schedule to the attending City representatives. It shall be the contractor's responsibility to arrange a mutually agreeable time for the pre-construction meeting.
- 8. If work will occur within the public right-of-way such as utilities, curb, sidewalk and driveway construction, a street opening permit(s) is required for your site. Please contact Carol Merritt at 874-8300, ext. 8828. (Only excavators licensed by the City of Portland are eligible.)

The Development Review Coordinator must be notified five (5) working days prior to date required for final site inspection. The Development Review Coordinator can be reached at the Planning Division at 874-8632. <u>Please</u> make allowances for completion of site plan requirements determined to be incomplete or defective during the inspection. This is essential as all site plan requirements must be completed and approved by the Development Review Coordinator prior to issuance of a Certificate of Occupancy. Please schedule any property closing with these requirements in mind.

If there are any questions, please contact Eric Giles at 874-8723.

Sincerely,

Alexander Jaegerman Planning Division Director

Electronic Distribution:

Bill Clark, Public works

Penny Littell, Planning & Development Dept Director Alexander Jaegerman, Planning Division Director Barbara Barhydt, Development Review Services Manager Philip DiPierro, Development Review Coordinator Marge Schmuckal, Zoning Administrator Larmy Munson, Inspections Division Lisa Danforth, Administrative Assistant Michael Bobinsky, Public Works Director Kathi Farley, Public Works

Jim Carmody, City Transportation Engineer Keith Gautreau, Fire Prevention Jeff Tarling, City Arborist Assessor's Office Approval Letter File Hard Copy Project File

O:\PLAN\Dev Rev\PineTree Ind Pkwy- 106 (WB Mason Warehouse)

2



Strengthening a Remarkable City. Building a Community for Life - www.portsandmaine.gov

Penny St. Louis Littell, Director of Planning and Development Marge Schmuckal, Zoning Administrator

Meeting Information
DATE: 1/3/09 ZONE: I-M 254-A-003
LOCATION: 106 Pine ree INDUSTRIAL Parkuly
PEOPLE PRESENT: Les Bany Babaya - Mange
\mathcal{L}
DISCUSSION: WB MASON New USEN-Mostly Whehouse 3,39 ACres - Whe house showroom - has An easement on the property - shown a new accession - close to 75% impervious - close to 75% impervious - covered loading Dock in the (LAX - 125 x 6.1 proposed)
3,39 Acres - Whehouse/showroom
- has An easement on the property - show A New Mile easement
- close to 15 6 impervious
- close to 15 6 impervious - close to 15 6 impervious - covered loading Dock in The CEAN 185 X 61 Proposed I may have Discussed The "retail" use - from plans Show just over 7,000 th to relook - Discussed Chapter 500 - in NASan's Brook AREA
to clock > Discussed he "retail use - + box plans show just over 1,000 in
to relook - Disoussed Chapter 500 - in NASon's Brook AREA urban impaired Stream,
-This would be Ammor (ADMMistratively) As shown to
-This would be Ammor (ADMinistratively) As shown to us At This time, we would Weed ANAMET, be to
explain The past uses compared townstis proposed
- Not sure About whether A traffic movement is required
()

<u>Please note</u>: this meeting is not an pre-approval of <u>any</u> ordinances. No project can be approved without going thru the appropriate reviews. This meeting is only to outline the City processes to go through based on the information given at this meeting. Any changes to that information may change the process requirements. Please check ordinances that are on-line for further information at <u>www.portlandmaine.gov</u>.

Room 315 – 389 Congress Street – Portland, Maine 04101 (207) 874-8695 – FAX:(207) 874-8716 – TTY:(207) 874-3936



Strengthening a Remarkable City. Building a Community for Life . www.portlandmaine.gov

Penny St. Louis Littell- Director of Planning and Development Marge Schmuckal, Zoning Administrator

October 23, 2008

Thomas E. Behenna, Esq. 60 State Street – Suite 700 Boston, MA 02109

RE: 106 Pine Tree Industrial Parkway – 254-A-003 (the "Property") – I-M Zone

Dear Attorney Behenna,

I am in receipt of your request for a zoning determination letter concerning the Property. It is my understanding that the proposed buyer, W.B. Mason Co., intends to use the Property to operate a wholesale distribution and warehouse facility for office supply products and office furniture with accompanying office space and a small retail outlet to sell used and/or slightly damaged office furniture.

Warehousing and distribution facilities (14-247(e)) and general business offices (14-247(t)) are uses permitted by right. Section 14-247(s) allows incidental accessory uses. Section 14-249(b) specifically prohibits retail trade that is <u>not</u> ancillary to a permitted use.

After further conversations with you on October 23, 2008, I gained a bit more information concerning the proposed retail component. The area of the entire building is approximately 36,000 square feet. The retail component would be approximately 5,000 square feet in size. Only used or damaged office furniture, not new furniture, and not all products in the warehouse, will be offered for sale. At this time I do not have any specific floor plans to further assess this use.

Based on all the information available to me at this time, I have determined the specifically described retail component for W.B. Mason Co., Inc. could qualify as an accessory, ancillary retail use to the principal use(s) of warehouse and distribution and general offices.

I temper my determination opinion pending a permit application for the change of use with alterations that will show further data and floor plans concerning the retail component. However, the preliminary information supplied to this office leads me to believe that any offending details could be resolved.

Room 315 - 389 Congress Street - Portland, Maine 04101 (207) 874-8695 - FAX:(207) 874-8716 - TTY:(207) 874-3936

If there would be any future change to the retail component that expanded the use or the size of the area, it would be subject to further review by this office to ensure continued compliance with the Land Use Zoning Ordinance.

At this time, I am not aware of any violations or pending violations of land use or other City ordinances in regards to the Property.

This determination letter does not serve as a substitute for any permits that are required under all City Ordinances.

Very truly yours,

Marge Schmuckal Zoning Administrator

Cc: file

Thomas E. Behenna Attorney At Law

Boston Office: 60 State Street, Suite 700 Boston, MA 02109 Telephone (617) 720-2661 Email tbehenna@aol.com Cohasset Office: 8 Highland Court Cohasset, MA 02025 Telephone (781) 383-2722 Facsimile (781) 383-2885

October 10, 2008

CONFIDENTIAL

VIA FEDERAL EXPRESS

Ms. Marge Schmuckal Zoning Administrator City of Portland 389 Congress Street, Room # 315 Portland, ME 04101

1+

RE: Request for Zoning Determination Letter

Underlying Transaction: Purchase and Sale Agreement Proposed Buyer: W.B. Mason Co., Inc. or its Nominee

Owner/Seller: MEGCO Realty, LLC

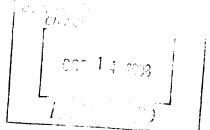
Subject Parcel: 106 Pine Tree Industrial Parkway, Portland, ME

Zoning District: I-M

Municipal Tax Map Number: Map 254 Lot A-3

Title Reference: 11969 Page 181 Cumberland County Registry

Effective Date of P&S: June 25, 2008 My Client: W.B. Mason Co., Inc.



Dear Marge:

Referencing our prior exchange of telephone correspondence, this letter is to confirm that I am legal counsel to **W.B. Mason Co., Inc.** ("Mason") in connection with its pending acquisition of certain commercial real estate located at 106 Pine Tree Industrial Parkway, Portland, ME.

The municipal tax map number for the subject property is # 254 Lot A-3. The site consists of approximately 3.5 acres of land and has a building thereon containing about 36, 000 sq. ft. The property is in a moderate impact industrial zone ("I-M").

RINGTA -

Mason intends to use the site to operate a wholesale distribution and warehouse facility for office supply products and office furniture with accompanying office space and a small retail outlet to sell used and/or slightly damaged office furniture. Based upon my reading of Section 14-247 of the City of Portland Code of Ordinances subsection (e), warehousing and distribution is allowed in an I-M zone as a matter of right. In addition, Section 14-247 subparagraph (t) of the Code of Ordinances seems to indicate that general business offices are also allowed in an I-M zone as a matter of right.

RE: Request for Zoning Determination Letter
Underlying Transaction: Purchase and Sale Agreement
Proposed Buyer: W.B. Mason Co., Inc. or its Nominee
Owner/Seller: MEGCO Realty, LLC
Subject Parcel: 106 Pine Tree Industrial Parkway, Portland, ME
Zoning District: I-M
Municipal Tax Map Number: Map 254 Lot A-3
My Client: W.B. Mason Co., Inc.

However, Section 14-249 in the Code of Ordinances prohibits retail trade in an I-M zone that is not an ancillary use. But, since Mason will be selling used and/or damaged office furniture out of what will primarily be a warehouse distributing facility for office supplies and office furniture, it seems to me that a small retail outlet component subordinate thereto, would qualify as an ancillary use under the Code of Ordinances and therefore would be permitted.

I could not find a definition for "ancillary use" in the Code of Ordinances. However, Section 14-47 defines "accessory use" as "uses which are customarily incidental and subordinate to the location, function and operation of a permitted use." Section 14-47 also states that definitions set forth in the building code of the City shall apply to words not defined in the Code of Ordnances.

Accordingly, based upon my foregoing preliminary research and analysis, I believe Mason's plans for a small retail outlet at the site will meet the criteria for an accessory use under the Code of Ordinances

Prior to Mason acquiring the subject property, Mason seeks to procure a Zoning

Determination Letter ("ZDL") from City of Portland Zoning Department to verify and confirm

that: (i) warehousing, distribution office is allowed as a matter of right in an I-M zoning district;

and, (ii) Mason's plan for a small retail outlet at the site would qualify as an ancillary-accessory

use under the Code of Ordinances.

Mason's mortgage lender has also requested the ZDL include language confirming that the subject property complies in all material respects with all applicable building, sewerage, zoning, subdivision, land use sanitary and safety laws, rules and regulations. Hence, I ask that such a provision be incorporated therein as well.

I enclose a check payable to the City of Portland in the amount of \$150.00 representing payment in full for the fee for the ZDL. If you-Portland should need any additional information or supporting documentation relative to my herein request, please let me know as soon as you can. Thank you for your consideration.

Very truly yours.

Thomas F. Behenna

TEB/ct Enclosure OCT 1 4 2003

Thomas E. Behenna, Esquire • 60 State Street • Suite 700 • Boston, MA 02109

City of Portland, Maine Code of Ordinances Sec. 14-47 Land Use Chapter 14 Rev. 2-18-06

stablishing the value of property and encouraging the most appropriate use of land throughout the community.

Sec. 14-47. Definitions.

The following words shall be defined as set forth below for use in the article. Definitions set forth in the building code of the city shall apply to words not herein defined:

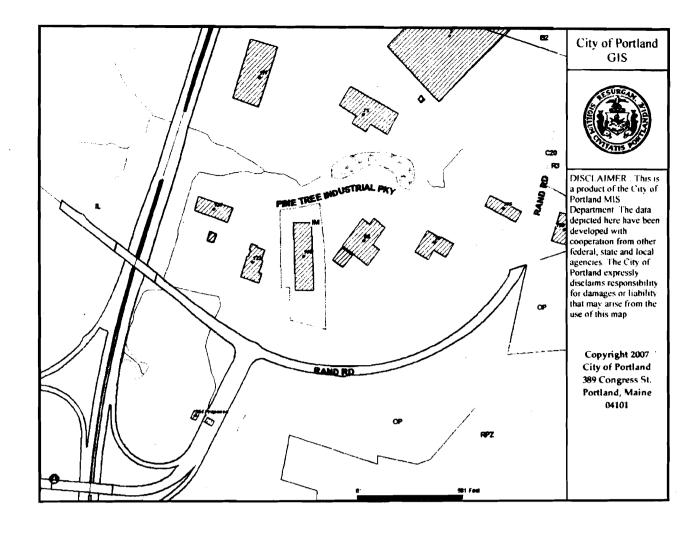
Accessory uses: Uses which are customarily incidental and subordinate to the location, function and operation of permitted uses.

7 The CAMPAS ANCHONY

Adult day care facility: A facility which provides a regular program of care and protection for persons over the age of sixteen (16), for consideration, for any part of the day.

Apartment: See "dwelling unit".

Apartment house: See "multifamily dwelling".





April 13, 2009

Barbara Barhydt Portland City Hall Planning Department 389 Congress Street Portland, ME 04101

AFR 21 200

RE: W.B. Mason Minor Amended Site Plan 106 Pine Tree Industrial Parkway

Dear Barbara:

Attached please find the site plans and attached documentation for a Minor Amended Site Plan for W.B. Mason.

The owner, JLTS VIII L.L.C. is the same ownership as W.B. Mason, the applicant, with the same contact person, Chris Meehan. JLTS VIII L.L.C. recently purchased the existing 36,190 s.f. office/warehouse building that we believe was used most recently by the U.S. Postal Service. W.B. Mason plans to modify the building interior, add a garage and make minor site modifications. The new use will be office, retail and warehouse with warehouse being the primary use. The new garage will be used the delivery vans for loading and unloading.

The following is a list of consultants for the project:

Lester S. Berry, P.E.
 Berry Huff McDonald Milligan, Inc.
 28 State Street
 Gorham, ME 04038
 207-839-2771

Project Engineer

 Robert Turner Turner Brothers, L.L.C.
 34 Bellow Road Raynham, MA 02767

Contractor

 BKA Architects, Inc. 142 Crescent Street Brockton, MA 02302 508-583-5603 ext. 321 Architect

28 State Street • Gorham, Maine 04038 • 207-839-2771 • FAX 207-839-8250

The site has essentially been fully developed and operational for 20 years. The lot and all the improvements have been approved by the Planning Board. The proposed project will not have any substantial impacts to the site and no impacts to the abutters.

Stormwater management is always a major concern. Currently, all runoff is collected onsite via a stormdrain system and transported to the north under Pine Tree Industrial Parkway to an existing detention pond. (Approved as part of the original subdivision plan.) The site was approved for 75% impervious coverage and after all, the improvement will have 69% coverage. The new garage will be constructed in the former paved loading dock area. The net increase in impervious area will only be 893 s.f. The primary reason for the increase will be the paved driveway to the propane tanks.

All other utilities are existing. Utilities include public water, sewer and underground electric. A hydrant is located at the northwest corner of the property.

Since this is within an existing industrial park with similar activities be conducted by the abutters, we do not expect to create any impacts. We do have two easements on-site that are important to the easement holders:

- Portland Pipeline Easement The 35-foot wide easement contains two high pressure oil mains. We have met with the PPL and they have explained the safety concerns associated with their facilities. It should be noted that we are not proposing any construction on their easement and have included a plan note for a Safety Pre-construction Meeting. This Site Plan package has also been submitted to PPL for their review.
- Portland Water District Easement The 100-foot wide easement contains a 42" water main. The Site Plan package has also been submitted to the PWD for their review.

The project owner, W.B. Mason, will be financing the project and will not be seeking any assistance from a financial institution. The contractor will be Turner Brothers, L.L.C. which has worked on several similar projects for W.B. Mason. The architect and engineer will also be involved throughout construction.

No new landscaping is proposed. The building and site is landscaped (shown on plan) and is similar to all the abutting industrial neighbors.

Please review and feel free to call if you have any questions.

Sincerely,

Lester S. Berry, P.E.

cc: Portland Pipeline
Portland Water District
Robert Turner

Tom Behenna

WBM as on Portland



Development Review Application Portland, Maine

Department of Planning and Development, Planning Division and Planning Board

Address of Proposed Development: 1	06 Pine Tree I	ndustrial Parl	kway	APa	2000
Zone: I-M Industrial Project Name: W.B. Mason					
Existing Building Size: 36,	190 sq. ft.	Proposed Building	Size:	43,232	sq. ft.
Existing Acreage of Site: 147,	886 sq. ft.	Proposed Acreage of	of Site:	147,886	sq. ft.
Proposed Total Disturbed Area of the S	ite: 30,000 sq.	ft. *			
* If the proposed disturbance is greater Permit (MCGP) or Chapter 500, Stormy Protection (DEP).					
Tax Assessor's Chart, Block & Lot:	Property Owners N	ame/	Telepho	ne #:	
Chart # 254	Mailing address:	C		586-3434	
Block # A	JLTS VIII L.I 59 Center St.		Cell Phone #:		
	Brockton, MA 02302				
Lot # 3	Contact: Chri	s Meehan			
Consultant/Agent Name, Mailing Address, Telephone #, Fax # and Cell Phone #:	Applicant's Name/ Mailing Address: W.B. Mason, I		Telepho	ne #: 86-3434	
Lester S. Berry, P.E.	Chris Meehan		Cell Pho	ne #:	
BH2M Engineers	59 Center St.				
28 State St. Gorham, ME (207) 839 2771 ext. 201	Brockton, MA				
Fee for Service Deposit (all applications Proposed Development (check all that a	,	\$200.00) *Ch	eck at	tached for	\$600.00
				-	
New Building Building Addition Manufacturing Warehouse/Distr Subdivision (\$500.00) + amount of lots Site Location of Development (\$3,000.	ibution Parking los (\$25.00 per lot) \$ 00)	ot i + major si			
(except for residential projects which s Traffic Movement (\$1,000.00) Section 14-403 Review (\$400.00 + \$25.	Storm water Quality (\$2				
Section 14-403 Review (\$400.00 + \$25. Other	oo per iot)	~ Pleas	se see next pa	uge ~	

Department of Planning and Development ~ Portland City Hall ~ 389 Congress St. ~ Portland, ME 04101 ~ ph (207)874-8721 or 874-8719

Major Development (more than 10,000 sq. ft.)
Under 50,000 sq. ft. (\$500.00)
50,000 - 100,000 sq. ft. (\$1,000.00)
Parking Lots over 100 spaces (\$1,000.00)
100,000 ~ 200,000 sq. ft. (\$2,000.00)
200,000 - 300,000 sq. ft. (\$3,000.00)
Over 300,000 sq. ft. (\$5,000.00)
After-the-fact Review (\$1,000.00 + applicable application fee)
Minor Site Plan Review
<u>X</u> Less than 10,000 sq. ft. (\$400.00)
After-the-fact Review (\$1,000.00 + applicable application fee)
Plan Amendments
Planning Staff Review (\$250.00)
Planning Board Review (\$500.00)
Billing Address: (name, address and contact information)
Chris Meehan
JLTS VIII L.L.C.
59 Center Street
Brockton, MA 02302

Submittals shall include seven (7) folded packets containing of the following materials:

- Copy of the application. A.
- В. Cover letter stating the nature of the project.
- C. Written Submittal (Sec. 14-525 2. (c), including evidence of right, title and interest.
- A standard boundary survey prepared by a registered land surveyor at a scale not less than one inch to 100 feet. D.
- E. Plans and maps based upon the boundary survey and containing the information found in the attached sample plan
- E. Copy of the checklist completed for the proposal listing the material contained in the submitted application.
- F. In addition to the seven (7) sets of documents listed above, one (1) set of the site plans reduced to 11 x 17 must be

Portland's development review process and requirements are outlined in the Land Use Code (Chapter 14), which includes the Subdivision Ordinance (Section 14-491) and the Site Plan Ordinance (Section 14-521). Portland's Land Use Code is on the City's web site: www.portlandmaine.gov Copies of the ordinances may be purchased through the Planning Division.

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

This application is for site review only; a Performance Guarantee, Inspection Fee, Building Permit Application and associated fees will be required prior to construction.

Signature of Applicant:	Date:

Department of Planning and Development ~ Portland City Hall ~ 389 Congress St. ~ Portland, ME 04101 ~ ph (207)874-8721 or 874-8719



Site Plan Checklist Portland, Maine

Department of Planning and Development, Planning Division and Planning Board

W.B. Mason - 106 Pine Tree Industrial Parkway

Project Name, Address of Project

Application Number

The form is to be completed by the Applicant or Designated Representative:

Check Submitted	Site Plan Item	Required Information Section 14-525	(b,c)
X	_ (1)	Standard boundary survey (stamped by a registered surveyor, at a	1
X		scale of not less than 1 inch to 100 feet and including:	
	_ (2)	Name and address of applicant and name of proposed development	a
X	_ (3)	Scale and north points	ь
X	_ (4)	Boundaries of the site	C
———X—	_ (5)	Total land area of site	d
x	_ (6)	Topography - existing and proposed (2 feet intervals or less)	e
x	_ (7)	Plans based on the boundary survey including:	2
	_ (8)	Existing soil conditions	a
None	- ',	Location of water courses, wetlands, marshes, rock outcroppings and wooded areas	
	_ (10)	Location, ground floor area and grade elevations of building and other	С
		structures existing and proposed, elevation drawings of exterior	
x		facades, and materials to be used	
<u>^</u>	_ (11)	Approx location of buildings or other structures on parcels abutting the site	d
		and a zoning summary of applicable dimensional standards (example page 9 of pack	:et)
x	_ (12)	Location of on-site waste receptacles	e
X	_ (13)	Public utilities	e
X	_ (14)	Water and sewer mains	e
x	(15)	Culverts, drains, existing and proposed, showing size and directions of flows	e
X	(16)	Location and dimensions, and ownership of easements, public or private	f
x		rights-of-way, both existing and proposed	
	_ (17)	Location and dimensions of on-site pedestrian and vehicular access ways	g
X	(18)	Parking areas	g
——-ж—	(19)	Loading facilities	g
X	(20)	Design of ingress and egress of vehicles to and from the site onto public streets	g
X	(21)	Curb and sidewalks	g
Ex. Site	(22)	Landscape plan showing:	h
Ex. Site	(23)	Location of existing vegetation and proposed vegetation	h
<u>Ex. Site</u>	. (24)	Type of vegetation	h
Ex. Site	. (25)	Quantity of plantings	h
Ex. Site	(26)	Size of proposed landscaping	h
ExSite	. (27)	Existing areas to be preserved	h
<u>Ex. Site</u>	(28)	Preservation measures to be employed	h
Ex. Site	(29)	Details of planting and preservation specifications	h
Ex. Site	(30)	Location and dimensions of all fencing and screening	i
<u>x</u>	(31)	Location and intensity of outdoor lighting system	j
x	(32)	Location of fire hydrants, existing and proposed (refer to Fire Department checklist)	k
x	(33)	Written statements to include:	С
x	(34)	Description of proposed uses to be located on site	cl
	(35)	Quantity and type of residential, if any	cl
	(36)	Total land area of the site	c2
	(37)	Total floor area, total disturbed area and ground coverage of each proposed	c2
v	` '	Building and structure	
x	(38)	General summary of existing and proposed easements or other burdens	c3
X	(39)	Type, quantity and method of handling solid waste disposal	c4
X	(40)	Applicant's evaluation or evidence of availability of off-site public facilities,	c5
	` /	including sewer, water and streets	
X	(41)	Description of existing surface drainage and a proposed stormwater management	с6
	` '	plan or description of measures to control surface runoff.	c6
		- · · · · · · · · · · · · · · · · · · ·	

<u>x</u> x	(42) (43)	A list of all state and federal reg subject to. Include the status o obtaining such permits, or lette	required for completion of the development 7, sulatory approvals to which the development may be 6 frany pending applications, anticipated timeframe for 1 is of non-jurisdiction. In the development has been development as of non-jurisdiction.
	(17)	development including a letter	from a responsible financial institution stating that it has nent and would seriously consider financing it when
X	(48)	Evidence of applicant's right tit other documentation.	le or interest, including deeds, leases, purchase options or
None	(49)	A description of any unusual na sites located on or near the site	ntural areas, wildlife and fisheries habitats, or archaeologica
Х	(50)	A jpeg or pdf of the proposed	site plan, if available.
Upon approval	(51)		s shall be submitted digitally to the Planning Division, on a nat (*,dwg), release AutoCAD 2005 or greater.
Note: Depending on the s information, including (but	ize and scope of the not limited to):	e proposed development, the Plannin	g Board or Planning Authority may request additional
- drainage patterns and	facilities	used during construction	 an environmental impact study a sun shadow study
 a parking and/or traff emissions a wind impact analysis 	īc study	abed dataly constitution	- a study of particulates and any other noxious - a noise study
a wind impact analysis	,		
Other comments:			
Department of Planning and F	Development ~ Portla	ind City Hall ~ 389 Congress St ~ Portle	and, ME 04101 ~ ph (207)874-8721 or 874-8719 - 8 -
		22. 2018.200	p.,(,,o.,,o.,,o.,,o.,

Doca: 63194 Bk 126448 Ps: 72

EXHIBIT A

A certain lot or parcel of land in the City of Portland, County of Cumberland, State of Maine, being Lot #302 as shown on the Revised Plan of Pine Tree Industrial Park subdivision made for Presumpscot Associates, Inc. dated January 1, 1988, recorded in the Cumberland County Registry of Deeds in Plan Book 173, Page 46, to which Plan reference is hereby made for a more particular description. Lot #302 is the easterly portion of Lot #3 as shown on a Plan for Pine Tree Industrial Park Subdivision made for Presumpscot Associates, Inc. prepared by Dearborn/Whited dated August 8, 1986, approved by the City of Portland Planning Board August 12, 1986, and recorded in the Cumberland County Registry of Deeds in Plan Book 157, Page 16. Said Lot #302 consists of 3.4 acres, more or less.

This conveyance is made subject to: (a) an easement conveyed to the Portland Pipe Line Company thirty-five (35) feet in width along the easterly side of said Lot #302 as shown on said plans; (b) an easement or right of way conveyed to the Portland Water District, one hundred (100) feet in width, which in part crosses the most southerly corner of said Lot #302 as shown on said plans; (c) the covenants and restrictions set forth on the face of the said Plan recorded in Plan Book 157, Page 16 and a Plan entitled "Recording Plot for Arthur Knowles" recorded in said Registry in Plan Book 160, Page 44; and (d) the restrictions, conditions and limitations set forth in the Deed from Ellen M. Knowles to Alco Partners dated March 24, 1987 and recorded in the Cumberland County Registry of Deeds in Book 7686, page 44.

As shown on said plan recorded in Plan Book 173, Page 46, this conveyance is made subject to an easement, and includes the grant of an easement, the said easements together creating a driveway thirty (30) feet in width, and each easement being fifteen (15) feet in width and adjacent to the westerly boundary of said Lot 302 (which is also the easterly boundary of the adjacent Lot 301). The said easements are for the use and benefit of said Lot #302 and said Lot #301.

Also conveying the right, in common with all other owners of lots on said plans, over all roads designated on said plans from the present end of Rand Road, across the Portland Terminal location, and over Rand Road extension and the Pine Tree Industrial Parkway, for access by vehicles and otherwise, as well as for the placement of utility lines, including sewer and water pipelines, power and telephone lines, the exact location of such utility lines to be determined by Presumpscot Associates, Inc.

Subject to current real estate taxes, which Grantee covenants and agrees to pay.

Reference is made to a deed from Alco Partners to MEGCO Realty Limited Liability Company, dated May 23, 1995 and recorded in the Cumberland County Registry of Deeds, in Book 11969, Page 181.

Recorded Resister of Deeds Nov 10:2008 12:16:57P Cumberland Counts Panela E. Lovier

(W1197473,L)

QUITCLAIM DEED WITH COVENANT

KNOW ALL BY THESE PRESENTS, That MEGCO REALTY LIMITED LIABILITY COMPANY, a Maine limited liability company, with a place of business in Portland, Maine (the "Grantor"), for consideration paid, grants to JLTS VIII LL.C., a Maine limited liability company, with a mailing address of I/C/O W. B. Mason Co., Inc., 73 Industrial Park Road, Saco, Maine 04072 (the "Grantee"), with QUITCLAIM COVENANT, the land and buildings in the City of Portland, Cumberland County, State of Maine, described more particularly as follows:

SEE EXHIBIT A ATTACHED HERETO AND MADE A PART HEREOF

IN WITNESS WHEREOF, Julian R. Coles, duly authorized Member of MEGCO Realty Limited Liability Company, has caused this instrument to be executed this ______ day of November 2008.

Witness:

MEGCO REALTY LIMITED LIABILITY COMPANY, a Maine limited liability company

Name: Alian R. Coles

STATE OF Floods

On this __ day of November 2008, then personally appeared the above named Julian R. Coles in his capacity as Member of MEGCO Realty Limited Liability Company, a Maine limited liability company, and acknowledged the foregoing instrument to be his free act and deed in his said capacity, and the free act and deed of said limited liability company.

MANUE Drive Lione Provided to 10

4

NANCY K. BRADFORD Notary Public, State of Florida Commissions DD 553351 My comm. expires July 21, 2010

Printed Name

Notary Public

(W1197475,1)

BKA Architects Inc. 142 Crescent Street Brockton, MA 02302

Architecture + Interiors

tel: 508.583.5603 fax: 508.584.2914 e-mail:bka@bkaarchs.com www.bkaarchs.com



LETTER OF TRANSMITTAL

TO: City of Portland
Inspections Division
389 Congress St. Rm 315
Portland, ME 04101

ATT.: Jeanie Bourke, Plan Reviewer

Date: December 15, 2009

Project: WB Mason - Protland Addition / Renovation

Project No.: 208162

	vi	Under separate cover	
In accordance request:			
<u>OUR:</u> Approval Use	☐ Distribution ☑ Record	Information Other:	Review & comment
OLLOWING: ☑ Drawings ☐ Change Ord ☐ Other:		•	☐ Specifications ☐ Originals ☐ Product Literature
PIES DATE 12/8/09	E NO.	Revised Foundation Pla	DESCRIPTION

Signed: Matthew Pelletier

Turner Brothers, LLC

34 Bellows Road Raynham, MA 02767 Phone: (508) 823-6303 Fax: (508) 823-2045 Submittal No. Date:

000112/16/2009

SUBMITTAL

To:

Planning & Development Dept.

389 Congress Street Portland, Maine 04101 **Project:**

WB Mason

106 Pine Tree Parkway

Portland, ME

Attention:

Prepared By:

Jeanie Bourke

Robert Turner

Division:

Date Required: ASAP

Spec. Section Description

Action Required

Review & Approve

1(original)

Copies Submitted

Metal Building Letter Of Certification

Complete set of Erection Drawings

Review & Approve

2(original)





Wisconsin Technical Services Office 2863 Liberty Lane Janesville, WI 53545

Phone: (608) 758-3718 Fax: (608) 758-3796

November 17, 2009

Re: Chief Order No.

Description:

CO95226

Bldg A - 59'-8" x 114'-10" x 16'-0" Bldg B - 12'-7" x 16'-3" x 17'-10 3/8"

Builders Name:

Turner Brothers, LLC

Building Owners Name:

W B Mason Portland, ME

Jobsite City, State:

Portland, ME

Gentlemen:

Dept. of Building Inspections File. Us Sussessing Issues und Maine Please accept this letter as certification that the Chief components, produced for the above described project to be furnished to Turner Brothers, LLC, for W B Mason Portland, ME, Portland, ME, have been designed for the following criteria as specified by Purchaser in the order documents:

2002 MBMA Occupancy Category	Standard Buildings	Seismic	
Roof Live Load	20 psf	Spectral Response Short Periods (S _s)	37.0%
(Tributary Area Reduction Allowed)	-	Spectral Response 1 s Period (S ₁)	10.0%
Collateral Load	5 psf	Seismic Importance Factor	1.0
Ground Snow Load (P _o)	70 psf	Use Group	I
Exposure Factor (C _e)	1.0	Design Category	С
Thermal Factor (C _t)	1.0	Site Class	D
Importance Factor (I)	1.0	Seismic Resisting System	
Flat Roof Snow Load (P _f)	49 psf	Longitudinal Direction	Steel System (R=3.0)
Building Enclosure	Enclosed	Lateral Direction	Steel System (R=3.0)
Wind Speed	90 mph (GCpi ± 0.18)	Seismic Response Coefficient (C _s)	0.124
Exposure Category	В	Spectral Response Parameter Short Period (Sps)	0.371
Importance Factor (I)	1.0	Spectral Response Parameter 1 s Period (S _{D1})	0.160
Wind Pressure (q)	13.46 psf	Analysis Procedure	ELF
		Base Shear	19,218 ibs.
		Other Loads:	
		None	

and applied in accordance with the IBC 2003 Building Code.

The design of Chief structural steel components is in accordance with the provisions of .

These Chief components as supplied, when properly erected as furnished, on an adequate foundation, will meet the loading requirements supplied to Chief by Purchaser in accordance with good engineering practices.

This certification does not cover field modifications nor does it cover materials furnished by someone other than Chief Industries, Inc.; nor the connection between Chief components and those manufactured or supplied by someone other than Chief Industries, Inc.

Chief design and detailing facilities: Grand Island, NE, Lincoln, NE, and Janesville, WI. Chief Fabrication facilities: Grand Island, NE and Rensselaer, IN.

William C. Walsh, P.E

Sr. Design Engineer

Chief Industries, Inc. - Buildings Division

WW/ti

C.

Proposed W. B. Mason Addition Portland, Maine

December 4, 2009 Project No. J3095112

Prepared for: BKA Architects Brockton, Massachusetts

Prepared by: Terracon Consultants, Inc. Scarborough, Maine



Offices Nationwide Employee-Owned Established in 1965 terracon.com



Geotechnical

Environmental

Construction Materials

Facilities



December 4, 2009

BKA Architects 142 Crescent Street Brockton, Massachusetts 02302-3104

Attn: Mr. Matt Pelletier

P: [508] 583 5603 F: [508] 583 2914

E: mpelletier@bkaarchs.com

Re: Geotechnical Engineering Report

Proposed W. B. Mason Addition Portland, Cumberland County, Maine Terracon Project No. J3095112

Dear Mr. Pelletier:

Terracon Consultants, Inc. (Terracon) is submitting, herewith, the results of our geotechnical evaluation for the above-referenced project. The purpose of this evaluation was to obtain information on subsurface conditions at the project site and, based on this information, to provide recommendations regarding the design and construction of foundations and site development for the proposed store.

In this report, we include our understanding of the project, a summary of the exploration program, and our design and construction recommendations. This report is subject to the General Comments in Section 5.

We appreciate the opportunity to be of service to you on this project. If you have questions concerning this report, or if we may be of further service, please contact us.

Sincerely,

Terracon Consultants, Inc.

...W O. SUU III

Wendell A. Shedd, III Department Manager

/pdc/J3095112

Ryan R. Roy, P.E.

Buth.

Principal/NE Division Manager

Terracon Consultants, Inc. 15 Holly Street, Suite 105 $\,$ Scarborough, Maine 04074 $\,$ P [207] 396 5374 $\,$ F [207] 396 5394 $\,$ terracon.com

Geotechnical

Environmental

Construction Materials

Facilities

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GEOTECHNICAL ENGINEERING REPORT PROPOSED W. B. MASON ADDITION PORTLAND, MAINE

Project No. J3095112 December 4, 2009

1.0 INTRODUCTION

The geotechnical evaluation for the expansion of the proposed W. B. Mason building at 106 Pinetree Industrial Parkway, Portland, Maine, as shown on the Topographic Vicinity Map in Appendix A, has been completed. Four soil borings (B-1 through B-4) were drilled to depths up to 32 feet below existing ground surface. A Boring Location Diagram and individual boring logs are included in Appendix A.

The purpose of these services is to provide information and geotechnical engineering recommendations relative to:

subsurface soil conditions foundation design and construction

groundwater conditions seismic considerations slab design and construction

2.0 PROJECT INFORMATION

The site is within a small industrial park and located at 106 Pinetree Industrial Parkway in Portland, Cumberland County, Maine. The site is currently developed with an approximately 54,000 square-foot, premanufactured steel building, with associated paved parking areas, concrete sidewalks and landscaping around the building and property.

2.1 Project Description

The project consists of a 7,000 square-foot single-story, pre-manufactured steel building addition to the southern end of the existing W. B. Mason building. This addition is to provide a covered loading area for the W. B. Mason delivery vans. Additionally, a mezzanine level will be constructed within a portion of the existing building.

Existing pavements and grades are not proposed to be significantly changed for the proposed addition. Access to the site will be provided by existing driveways from Pinetree Industrial Parkway. Based on our observations, the site generally slopes downward to the north. Based on our experience with the site area, the grade at the site for the existing W. B. Mason building was likely slightly raised. Site development plans were not provided to us for preparation of this report, but are reported to remain unchanged from existing. A summary description of the project is presented below:

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Proposed W. B. Mason Addition L. Portland, Maine December 4, 2009 L. Terracon Project No. J3095112



ITEM	DESCRIPTION		
Site layout	Shown on Figure 2 - Boring Location Diagram		
Proposed Building	One story with an approximate footprint of 7,000 square feet		
Proposed Building Type	Steel-framed light industrial building		
Finished Floor Elevation	102.4 to 102.8 feet		
Maximum Loads	Columns: 60 kips (assumed) Walls: 2 kips per linear foot (assumed) Slabs: 175 psf max (assumed)		
Maximum allowable settlement	Columns: 1-inch (assumed) Walls: ¾ inch over 40 feet (assumed)		
Grading	Based on our observations of the proposed building plans, we expect that only minor grading will be required.		
Cut and fill slopes	Not expected		
Retaining walls	None proposed		
Basement Level	A basement is not proposed for this building.		

2.2 Site Location and Description

ITEM	DESCRIPTION 106 Pinetree Industrial Parkway The site is currently developed with a pre-manufactured steel building, asphalt paved parking areas, concrete sidewalks, and landscaping.	
Location		
Existing improvements		
Current ground cover	Asphalt pavement.	
Existing topography	The site generally slopes slightly downward to the north	

3.0 SUBSURFACE EXPLORATIONS AND CONDITIONS

3.1 Typical Profile

Based on the results of the borings and observations at the time of drilling, subsurface conditions on the project site can be generalized as follows:

Proposed W. B. Mason Addition : Portland, Maine December 4, 2009 : Terracon Project No. J3095112



Description	Approximate Depth to Bottom of Stratum (feet)	Material Encountered	Consistency / Relative Density
Stratum 1	1 to 4	Poorly-graded sand with silt and gravel, brown (Fill)	Medium dense
Stratum 2	>32	Lean clay, olive to gray (Glaciomarine Deposit)	Very soft to stiff

Conditions encountered at each boring location are indicated on the individual boring logs in Appendix A of this report. Stratification boundaries on the boring logs represent the approximate location of changes in soil types; *in situ*, the transition between materials may be gradual.

Laboratory testing consisting of moisture content and Atterberg Limits was performed on samples collected during our exploration activities. A total of six moisture content tests were performed and the results ranged from 36.4% to 51.5% moisture. A total of three Atterberg Limits tests were performed and plasticity indices (PI) were observed to range from 14 to 24 and the liquid limits (LL) were observed to range from 37 to 46.

3.2 Groundwater

Groundwater did not appear in the boreholes during or soon after drilling. The high fines content of the native soils may have prevented the groundwater from appearing in the borehole. However, soil samples deeper than about 10 feet below existing ground surface had a higher moisture content, indicating the current groundwater elevation may be close to that level. Additionally, water may be temporarily perched above the relatively impermeable clay.

Fluctuations in groundwater level may occur because of seasonal variations in the amount of rainfall, runoff and other factors. Additionally, grade adjustments on and around the site, as well as surrounding drainage improvements, may affect the water table. The possibility of groundwater level fluctuations should be considered when developing the design and construction plans for the project.

4.0 RECOMMENDATIONS FOR DESIGN AND CONSTRUCTION

4.1 Geotechnical Considerations

The glaciomarine deposit, consisting of lean clay, is compressible and is expected to settle under the added weight of fill or moderate to heavy building loads. However, with the proposed light loads of the pre-manufactured steel building addition, we estimate that the glaciomarine deposit may consolidate within the range of acceptable settlements for this type of construction. This estimation is based on spread footings bearing on properly prepared subgrades, to include

Proposed W. B. Mason Addition Portland, Maine December 4, 2009 Terracon Project No. J3095112



overexcavation of glaciomarine soils and placement of geotextile and crushed stone or a mud mat under footings.

Existing interior footings should be evaluated for the proposed mezzanine level loads, based upon our recommendations for allowable bearing and settlements. If the proposed mezzanine level induce loads that result in footing pressures and settlements greater than those recommended in this report, additional investigations for the design of deeper foundation support should be performed.

We have assumed that only minor grading, cuts and fills of less than one foot, will be required in the proposed addition and no other ancillary building structures are proposed. This should be reviewed when the site survey is available. With little to no increase in load expected outside of the building pad, surcharge or preload of these areas is not required.

4.2 Earthwork

4.2.1 Site Preparation

The site is slightly sloping in the areas of the proposed work. We estimate only minor grading, cuts and fills up to about a foot or so, will be required to establish finished grade. Prior to placing fill, asphalt and concrete pavements and otherwise unsuitable materials should be removed. The subgrade should be thoroughly compacted/proofrolled with a large roller compactor. Unstable subgrades should be removed and replaced with compacted structural fill or minus ¾-inch crushed stone, as necessary.

4.2.2 Material Types

Fill should meet the following material property requirements:

Fill Type ¹	USCS Classification	Acceptable Location for Placement		
Structural Fill	GW ²	All locations and elevations. The native glaciomarine soil is not suitable for use as structural fill; however the poorly-graded sand fill may be selectively re-used as structural fill, provided it meets the gradation requirements in Note 2, below.		
Common fill Varies ³		The existing poorly-graded sand fill may be re-used as common fill for minor site grading, provided it is free of organics and can be adequately compacted. The native glaciomarine soil may need to be blended with granular material to facilitate its re-use as common fill. Common fill should not be used under settlement sensitive structures.		

^{1.} Fill should consist of approved materials that are free of organic matter and debris. Frozen material should not be used. Fill should not be placed on a frozen subgrade.

2. Imported structural fill should meet the following gradation:

Percent Passing by Weight			
Sieve Size	Structural Fill		
6"	100		

Proposed W. B. Mason Addition Portland, Maine December 4, 2009 r Terracon Project No. J3095112



Fill Type ¹	USCS Classification	Acceptable Location for Placement	
	3"	70 – 100	
	2"	(100)*	
	3/4"	45 – 95	
	No. 4	30 – 90	
	N o. 10	25 – 80	
	No. 40	10 – 50	
	No. 200	0 - 12	

^{*} Maximum 2-inch particle size within 12 inches of the underside of footings or slabs

4.2.3 Compaction Requirements

ITEM	BESCRIPTION 8 inches or less in loose thickness 95% maximum modified Proctor dry density (ASTM D1557, Method C)		
Fill Lift Thickness			
Compaction Requirements ¹			
Moisture Content – Granular Material	+/- 2 percent of optimum		

We recommend that structural fill be tested for moisture content and compaction during placement. Should
the results of the in-place density tests indicate the specified moisture or compaction limits have not been
met, the area represented by the test should be reworked and retested, as required, until the specified
moisture and compaction requirements are achieved.

4.2.4 Utility Trench Backfill

Trench excavations should be made with sufficient working space to permit construction including backfill placement and compaction. If backfilled with relatively clean granular material, utility trenches should be capped with at least 18 inches of low permeability fill in non-pavement areas to reduce the infiltration and conveyance of surface water through the trench backfill. Alternatively, trenches should be backfilled with material that approximately matches the permeability characteristics of the surrounding soil. Fill placed as backfill for utilities located below the slab should consist of compacted structural fill or suitable bedding material.

4.2.5 Grading and Drainage

Adequate drainage should be provided at the site to reduce the likelihood of an increase in moisture content of the foundation soils. Finished grade should be sloped away to reduce the likelihood of water ponding near the structures.

4.2.6 Construction Considerations

We expect the soil subgrade to consist primarily of glaciomarine clay for the footings and existing fill for the slab-on-grade. Such soils and site conditions are sensitive to moisture and unstable subgrade conditions could develop during general construction operations, particularly if the soils are wetted and/or subjected to repetitive construction traffic. Should unstable subgrade conditions develop, stabilization measures will need to be employed. Contractors experienced in earthwork construction in New England should be aware of this soil behavior and the effect that

Common fill should have a maximum particle size of 6 inches and no more than 25 percent by weight passing the US No. 200 sieve.

Proposed W. B. Mason Addition r. Portland, Maine December 4, 2009 r. Terracon Project No. J3095112



moisture and site traffic have on workability. If construction starts in the wet or winter months, the contractor should include a contingency in his cost estimate to allow the use of imported fill and the disposal of unsuitable site soils.

Construction traffic over the completed subgrade should be avoided to the extent practical. The site should also be graded to prevent ponding of surface water on the prepared subgrades or in excavations. If the subgrade should become frozen, wet, or disturbed, the affected material should be removed, or should be scarified, moisture conditioned, and recompacted.

As a minimum, temporary excavations should be sloped or braced as required by Occupational Health and Safety Administration (OSHA) regulations to provide stability and safe working conditions. The contractor, by his contract, is usually responsible for designing and constructing stable, temporary excavations and should shore, slope or bench the sides of the excavations, as required, to maintain stability of both the excavation sides and bottom. All excavations should comply with applicable local, State and federal safety regulations, including the current OSHA Excavation and Trench Safety Standards.

The geotechnical engineer should be retained during the construction phase of the project to observe earthwork and to perform necessary tests and observations during subgrade preparation; proofrolling; placement and compaction of controlled compacted fills; backfilling of excavations; and just prior to construction of foundations.

Should dewatering be required due to surface runoff or fluctuations in the groundwater table, dewatering can likely be accomplished by pumping from filtered pumps installed in crushed stone sumps. The contractor should prevent groundwater and surface water runoff from collecting in excavations. Subgrade soils that become unstable because of such water and/or reworking by construction activity should be removed and replaced, as necessary.

4.3 Foundation Recommendations

We estimate that post-construction total settlements may be up to about 1 to 1½ inches with differential settlement about half the total settlement. Provided the risk of such settlements is acceptable, the foundations of the proposed building may derive support from the native soils following treatment as described below.

The footing subgrades should be overexcavated with a flat bladed bucket to avoid disturbing the subgrade, to at least 12 inches below the underside of footing. The excavation should be made sufficiently wide to allow a 5-ton (static weight) single steel drum roller compactor (with rubber drive wheels) to gain access. The exposed subgrade should be statically proofrolled with this compactor while being monitored by the Terracon geotechnical engineer. Too much proofrolling may disturb the subgrade. Soft subgrades that exhibit excessive displacement (pumping and weaving) may need to be excavated further or have stabilization measures applied.

Proposed W. B. Mason Addition r Portland, Maine December 4, 2009 r Terracon Project No. J3095112



Following successful completion of proofrolling, a woven geotextile (Mirafi 500X or equivalent) should be placed on the subgrade, which may then be raised to the underside of footing level by placing minus ¾-inch crushed stone. The crushed stone should be "seated" with several passes of a 5-ton roller. This compactive effort should also be monitored by the geotechnical engineer to avoid disturbance to the underlying sensitive fine grained soils. As an alternative to the 12 inches of overexcavation for crushed stone, a minimum 4-inch thick mud mat may be placed.

The proposed addition may be supported on shallow spread footings provided the subgrade preparation measures above and detailed in the Construction Considerations sections of this report are followed. Design recommendations for shallow foundations are presented in the following paragraphs.

4.3.1 Design Recommendations – Spread Footings

24 inches		
≤ 1-1/2 inch		
≤ ¾ inch		
120 pcf		
3.0 (ultimate)		
0.5 (ultimate)		
)		

- 1. The recommended net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the footing base elevation.
- 2. Estimated post-surcharge settlements. Foundation settlement will depend upon the variations within the subsurface soil profile, the structural loading conditions, the embedment depth of the footings, the thickness of compacted fill, and the quality of the earthwork operations.
- 3. Passive pressure calculated with this parameter should be reduced by at least a factor of safety of 3, to reflect the amount of movement required to mobilize the passive resistance.
- 4. A factor of safety of at least 1.5 should be applied to the sliding resistance.

Site underground utilities, light standard foundations, drainage structures, and the like may be soil supported in a similar manner to building footings. Foundations for site appurtenances may be designed on the basis of a net allowable bearing pressure of 2 ksf. However, the net allowable bearing pressure should be reduced to 1.5 ksf if the foundation dimensions are less than the recommended minimum.

Proposed W. B. Mason Addition L. Portland, Maine December 4, 2009 L. Terracon Project No. J3095112



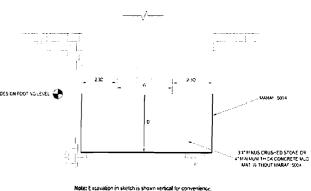
4.3.2 Construction Considerations

The existing fill and native glaciomarine clay is not suitable for foundation support in its current state. Existing fill should be removed within the foundation bearing zone, which is defined as the volume below 1H:1V lines extending outward and downward from the lower edges of the footings. Glaciomarine clay should be removed to a minimum of 12 inches below proposed footings if using crushed stone, or a minimum of 4 inches if using a mud mat, as discussed within this report.

Foundation subgrades consisting of glaciomarine clay should be carefully excavated with a flat blade bucket to reduce disturbance. The exposed subgrade should be proofrolled with a static heavy roller compactor under the direction of a geotechnical engineer. However, the degree of proofrolling should be reviewed by the site geotechnical engineer. Proofrolling should not be completed if it will disturb underlying sensitive soils or if the groundwater table has risen close to excavation level. During the proofrolling process, the subgrade should be observed by the geotechnical engineer or his representative to identify soft or loose areas. Soft/loose areas and unstable zones should be replaced with minus ¾-inch crushed stone, as needed.

The glaciomarine clay will be susceptible to disturbance due to a combination of precipitation/surface runoff and construction activities. Consideration should therefore be given to protecting the clay subgrade with a minimum 4-inch thick lean concrete mud mat. The use of a protective mud mat will depend on the conditions at time of construction.

The base of all foundation excavations should be free of water and loose soil prior to placing concrete. Concrete should be placed soon after excavating to reduce bearing soil disturbance. Should the soils at bearing level become wet, disturbed or frozen, the affected soil should be removed prior to placing concrete. The geotechnical engineer should be retained to observe and test the soil foundation bearing materials.



Note: Excavation in sketch is shown vertical for convenience Excavations should be sloped as necessary for safety.

If unsuitable bearing soils are encountered in footing excavations, the excavations should be extended deeper to suitable soils and the footings could bear directly on these soils at the lower level. The footings could also bear on properly compacted minus ¾-inch crushed stone extending down to the suitable soils. Overexcavation for crushed stone placement below footings should extend laterally beyond all edges of the footings at least 8 inches per foot of overexcavation depth below footing base elevation. The overexcavation should then be backfilled up to the footing base elevation in lifts of 8 inches or less in loose thickness and compacted. The overexcavation and backfill procedure is described in the adjacent figure.

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The contractor should be required to maintain a stable excavation and subgrade during construction. The contractor should prevent groundwater and surface water runoff from collecting in the excavation. Subgrade soils that become unstable because of water and/or reworking by construction activity should be replaced with compacted structural fill or minus ¾-inch crushed stone, as necessary.

4.4 Slabs-On-Grade

4.4.1 Design Recommendations

DESCRIPTION	VALUE			
Floor Slab support ¹	12-inch thick layer compacted structural fill			
Modulus of subgrade reaction	200 pounds per square inch per in (psi/in)			

1. Floor slabs should be structurally independent of any building footings or walls to reduce the possibility of floor slab cracking caused by differential movements between the slab and foundation.

Where appropriate, control joints should be saw-cut in the slab to help control the location and extent of cracking. For additional recommendations refer to the ACI Design Manual.

A vapor retarder should be used beneath concrete slabs-on-grade. The slab designer should refer to ACI 302 and/or ACI 360 for procedures and cautions regarding the use and placement of a vapor retarder.

4.4.2 Construction Considerations

On most project sites, the site grading is generally accomplished early in the construction phase. However as construction proceeds, the subgrade may be disturbed because of utility excavations, construction traffic, precipitation, etc. As a result, the slab subgrade may not be suitable for placement of concrete. In this event, corrective action will be required.

We recommend the existing fill underlying the floor slab be rough graded and then thoroughly compacted with at least four passes each way crosswise of a minimum 10-ton (static weight) vibratory roller compactor. Particular attention should be paid to high traffic areas that were rutted and disturbed earlier and to areas where backfilled trenches are located. Areas with unsuitable conditions should be repaired by removing and replacing the affected material with properly compacted fill. Slab subgrade areas should be moisture conditioned and properly compacted to the recommendations in this report, immediately prior to placement of the base material and concrete.

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4.5 Seismic Considerations

DESCRIPTION	VALUE		
Code Used	International Building Code (IBC) – 2009 Edition		
Site Class	D		
Maximum considered earthquake ground	0.078g (1.0 second spectral response acceleration)		
motions (5 percent damping)	0.321g (0.2 second spectral response acceleration)		
Liquefaction potential in event of an earthquake	Not susceptible		

4.6 Pavement

4.6.1 Design Recommendations

Traffic Area	Bituminous Concrete Top Course	Bituminous Concrete Binder Course	Portland Cement Concrete	Gravel Base Course	Gravel Subbase Course	Total Thickness
Standard Duty	1.5	1.5	N/A	6	6	15
Heavy Duty	1.5	2.5	N/A	6	10	20
Rigid	N/A	N/A	6	6	10	22

N/A = Not Applicable

Pavement designs were based on AASHTO Guide for Design of Pavement Structures (1993) and our experience with similar projects. The thickness of each course is a function of subgrade strength, traffic, design life, serviceability factors, and frost susceptibility. The design of pavement thickness was based on the following:

- 30,000 18-kip Equivalent Axle Loads (EALs) for standard-duty parking lot
- 100,000 18-kip EALs for heavy-duty driveways and truck access lanes
- Soil characterization of "poor", based on the encountered subsurface conditions
- Design life of 20 years

Pavements subjected to high traffic volumes and heavy trucks require thicker pavement sections. Rigid concrete pavement is recommended at the location of dumpsters where trash trucks will park, areas of channelized traffic, and loading dock areas. For dumpster pads, as a minimum, the concrete pavement area should be large enough to support the container and tipping axle of the refuse truck. The outer edges of concrete pavement are susceptible to damage as trucks move from the concrete to the adjacent bituminous concrete. Therefore, the concrete thickness of the outer 2 feet of the concrete pavement should be increased to 12

APPENDIX A FIELD EXPLORATION



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inches. Dowels should be placed across slab expansion joints to limit differential settlements. Welded wire mesh (1/4 inch) should be incorporated into the rigid concrete pavement design to provide tensile strength and increase serviceability. The above sections represent minimum thicknesses and, as such, periodic maintenance should be anticipated.

Gravel base course should be Maine Department of Transportation (MDOT) Granular Base Section, Section 703.06, Type A. Gravel subbase course should be MDOT Granular Subbase Section 703.20, Gravel Borrow 1. Select pavement fills should be placed and compacted to at least 92 percent of the maximum dry density, as determined by ASTM D1557. OBituminous concrete should be an approved job mix formula (JMF) in accordance with MDOT, Section 401.03, Composition of Mixtures. The bituminous concrete should be placed in accordance with MEDOT standards and compacted to a range between 92.5 to 97.5 percent, as compared to the theoretical mix density for the job mix formula. Portland cement concrete should conform to MDOT Section 502 and have a minimum compressive strength of 5,000 psi.

4.6.2 Construction Considerations

Pavement subgrades prepared early in the project should be carefully evaluated as the time for pavement construction approaches. We recommend the pavement areas be stripped of existing organic material, rough graded, and then thoroughly compacted with a minimum 10-ton (static weight) vibratory roller compactor, before being proofrolled with a loaded tandem-axle dump truck. Particular attention should be paid to high traffic areas that were rutted and disturbed, areas where backfilled trenches are located, and where existing inorganic fill is to remain beneath the pavement. Areas where unsuitable conditions are located should be repaired by replacing the materials with properly compacted fill. When proofrolling/subgrade stabilization has been completed to the satisfaction of the geotechnical engineer, subbase and base may be placed.

Truck or construction traffic may disturb subgrades and overexcavation or ground stabilization may be required prior to paving. Future performance of pavements constructed on the site will be dependent upon maintaining stable moisture content of the subgrade soil. The performance of pavements may be enhanced by reducing excess moisture that can reach the subgrade soils. The following recommendations should be considered at minimum:

- Site grading at a minimum 2 percent grade away from the pavements;
- Sealing landscaped areas in or adjacent to pavements to reduce moisture migration to subgrade soils;
- Placing compacted backfill against the exterior side of curb and gutter; and,
- Placing curb, gutter and/or sidewalk directly on subgrade soils without the use of base course materials.

Preventative maintenance should be planned and provided through an on-going pavement management program in order to enhance future pavement performance. Preventative

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maintenance activities are intended to slow the rate of pavement deterioration, and to preserve the pavement investment.

Preventative maintenance consists of both localized maintenance, e.g., crack and joint sealing and patching, and global maintenance, e.g., surface sealing. Preventative maintenance is usually the first priority when implementing a planned pavement maintenance program and provides the highest return on investment for pavements. Prior to implementing any maintenance, additional engineering observation is recommended to assess the type and extent of preventative maintenance.

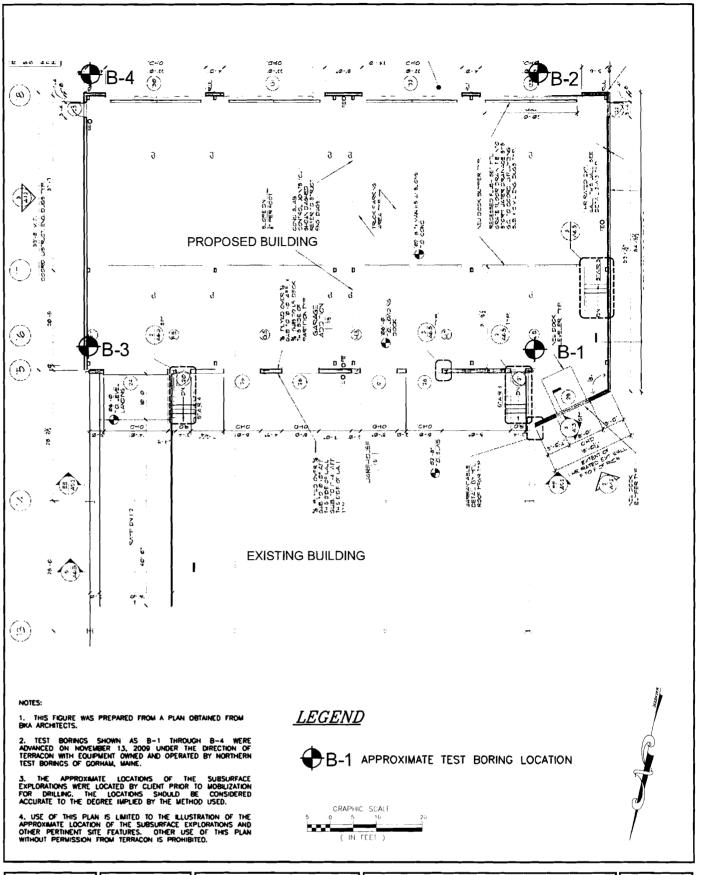
5.0 GENERAL COMMENTS

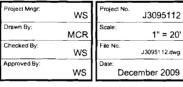
Terracon should be retained to review the final design plans and specifications, so comments can be made regarding interpretation and implementation of our geotechnical recommendations in the design and specifications. Terracon also should be retained to provide observation and testing services during grading, excavation, foundation construction and other earth-related construction phases of the project.

The analysis and recommendations presented in this report are based upon the data obtained from the explorations performed at the indicated locations and from other information discussed in this report. This report does not reflect variations that may occur between explorations, across the site, or due to the modifying effects of weather. The nature and extent of such variations may not become evident until during or after construction. If variations appear, we should be immediately notified so that further evaluation and supplemental recommendations can be provided.

The scope of services for this project does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

This report has been prepared for the exclusive use of our client for specific application to the project discussed and prepared in accordance with generally accepted geotechnical engineering practices. No warranties, either express or implied, are intended or made. Site safety, excavation support, and dewatering requirements are the responsibility of others. In the event that changes in the nature, design, or location of the project as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless Terracon reviews the changes and either verifies or modifies the conclusions of this report in writing.



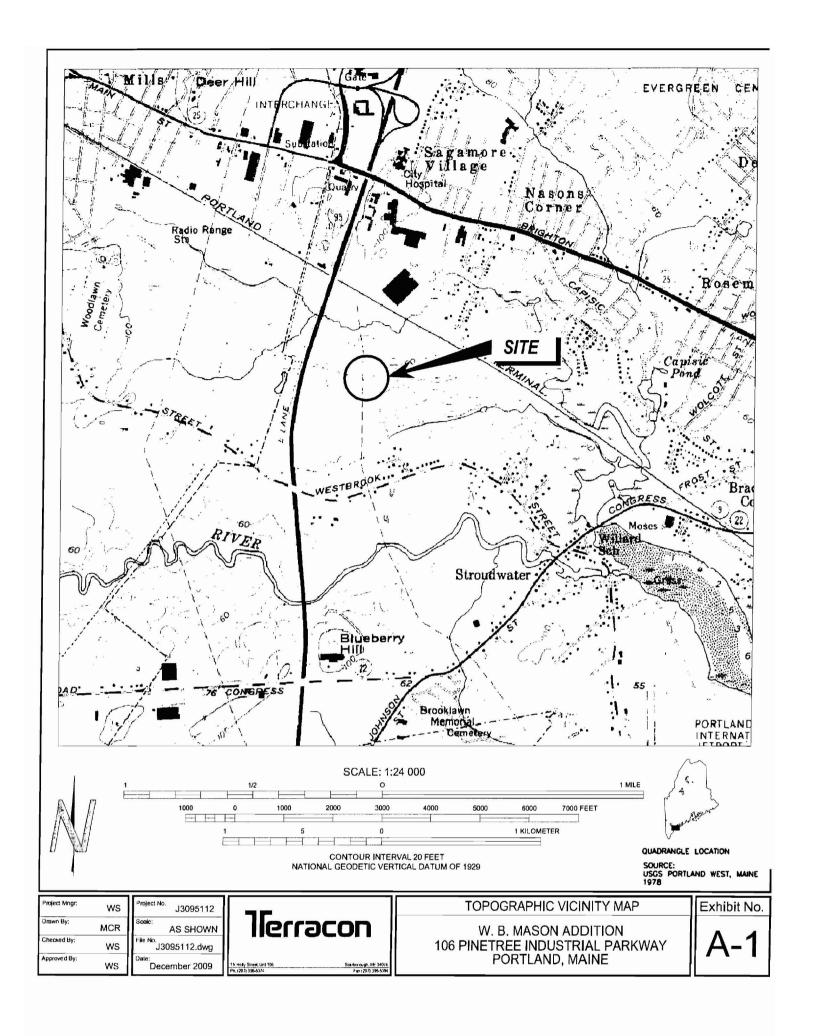




W. B. MASON ADDITION

106 PINETREE INDUSTRIAL PARKWAY
PORTLAND, MAINE

A-2



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						SAI	MPLE:	<u> </u>	1		TESTS	
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***	~3-inches asphalt. 1~8-inches processed gravel.		_			SS		7-8-6-4				PP SHEAR STRENGTH (tsf)
	(ASPHALT/GRAVEL)/ Fill - POORLY-GRADED SAND, with silt and gravel, Brown. Change at approx. 4 feet. (FILL)			FILL	1	33		7-0-0-4				
	, , , , , , , , , , , , , , , , , , , ,		5									
				CL	2	SS		3-3-2-2	39			1.0
			10	CL	3	ss		WOH/12" - 1/12"				-
	LEAN CLAY, olive to gray.		15	CL	4	SS		WOH/12" - 1/12"				
			20	CL	5	SS	24	WOH/24"				
			-									
			25—	CL	6	SS	24	WOH/24"				
			30									
	32 (GLACIOMARINE)		30—	CL	7	SS	24	WOH/24"				
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	~2.75-inches asphalt. 1—~8-inches processed gravel.				1	SS	12	8-4-4-6				PP SHEAR STRENGTH (tsf	
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			20	CL	5	ss	24	WOH/24"	48	15	39		
			25	CL	6	SS	24	WOH/24"					
			30	CL	7	SS	24	WOH/24"	52	14	37		
	32 (GLACIOMARINE) Boring Terminated at 32 feet		7-	\rightarrow									
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			5	CL	2	ss	24	4 - 4 - 3 - 3	38			1.25
			10—	CL	3	SS	24	1/12" - 1/12"				
	LEAN CLAY, olive to gray.		15	CL	4	SS	24	WOH/24"				
			20	CL	5	ss	24	WOH/24"	,			
			25—	CL	6	SS	24	WOH/24"				
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***	~4-inches asphalt. 1~8-inches processed gravel. (ASPHALT/GRAVEL)		_	FILL	1	SS	12	6-5-5-6				PP SHEAR STRENGTH (ts
$\overset{\circ}{\Longrightarrow}$	Fill - POORLY-GRADED SAND, with silt and gravel, Brown. Change at approx. 4 feet. (FILL)		_									
			5	CL	2	SS	24	2-3-3-2	43			1.0
			_									
			10-	CL	3	SS	24	1/12" - 1/12"				
	LEAN CLAY, olive to gray.		15	CL	4	SS		WOH/24"				
			20-	CL	5	SS		WOH/24"		_		
			25	CL	6	ss		WOH/24"				
	(OLACIOMATINE)		30	CL	7	SS		WOH/24"				
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APPENDIX B SUPPORTING DOCUMENTS

Jerracon

Field Exploration Description

Terracon monitored the advancement of four test borings (B-1 through B-4) throughout the proposed building area on November 13, 2009. The explorations were advanced using a Diedrich all terrain vehicle-mounted rotary drill rig, owned and operated by Northern Test Boring, Inc. of Gorham, Maine. The borings were advanced using 3-1/4 inch I.D. continuous flight hollow-stem augers (HSA) and terminated in the glaciomarine deposit.

In the split-barrel sampling procedure, the number of blows required to advance a standard 2-inch O.D. split-barrel sampler typically the middle 12 inches of the total 24-inch penetration by means of a 140-pound autohammer with a free fall of 30 inches is the Standard Penetration Test (SPT) resistance value "N". This "N" value is used to estimate the *in-situ* relative density of cohesionless soils and consistency of cohesive soils. The samples were placed in labeled glass jars and taken to our Scarborough (Portland) laboratory for further review, possible testing, and classification.

In the thin-walled tube sampling procedure, a thin-walled, seamless steel tube with a sharp cutting edge is pushed hydraulically into the soil to obtain a relatively undisturbed sample. The samples were tagged for identification, sealed to reduce moisture loss, and taken to our Rocky Hill (Hartford) laboratory for further examination, testing, and classification.

Information provided on the boring logs attached to this report includes soil descriptions, relative density and/or consistency evaluations, boring depths, sampling intervals, and groundwater conditions. The borings were backfilled with auger cuttings prior to the drill crew leaving the site.

Field logs of the borings were prepared by a Terracon field engineer. These logs included visual classifications of the materials encountered during drilling as well as interpretation by our field engineer of the subsurface conditions between samples. Final boring logs included with this report represent further interpretation by the geotechnical engineer of the field logs and incorporate, where appropriate, modifications based on laboratory classification of the samples.

Ground surface elevation was not available to us for preparation of this report. All borings were completed from existing grade. The approximate boring locations were measured by taping from existing features in the field and by estimating right angles. The locations and elevations of the borings should be considered accurate only to the degree implied by the means and methods used to define them.

Exhibit A-4

UNIFIED SOIL CLASSIFICATION SYSTEM

		than 50% of Se				Soil Classification
Criteria for Assig	ning Group Symbols	s and Group Names	s Using Laboratory	Tests ^A	Group Symbol	Group Name ^B
	Gravels:	Clean Gravels:	$Cu \ge 4$ and $1 \le Cc \le 3^E$	GW	Well-graded gravel F	
	More than 50% of	Less than 5% fines c	Cu < 4 and/or 1 > Cc > 3	GP	Poorly graded gravel	
		Gravels with Fines:	Fines classify as ML or M	GM	Silty gravel F,G,H	
Coarse Grained Soils: More than 50% retained on No. 200 sieve coarse fraction retain No. 4 sieve Sands: 50% or more		More than 12% fines ^c	Fines classify as CL or C	GC	Clayey gravel F,G,H	
		Clean Sands:	$Cu \ge 6$ and $1 \le Cc \le 3^E$	SW	Well-graded sand	
	50% or more of coarse	Less than 5% fines D	Cu < 6 and/or 1 > Cc > 3	E	SP	Poorly graded sand
	fraction passes	Sands with Fines:	Fines classify as ML or M	1H	SM	Silty sand G,H,I
	No. 4 sieve	More than 12% fines D	Fines Classify as CL or C	Н	SC	Clayey sand G,H,I
A STATE OF THE STA		Inorgania	PI > 7 and plots on or abo	ove "A" line ^J	CL	Lean clay K,L,M
	Silts and Clays:	morganic.	PI < 4 or plots below "A" I	ine ^J	ML	Silt K,L,M
Coarse Grained Soils: More than 50% retained on No. 200 sieve Fine-Grained Soils: 50% or more passes the No. 200 sieve	Liquid limit less than 50	Organic:	Liquid limit - oven dried		OL	Organic clay K,L,M,N
		Organic:	Liquid limit - not dried	< 0.75	OL	Organic silt K,L,M,O
		Inorganio	PI plots on or above "A" I	ine	СН	Fat clay ^{K,L,M}
	Silts and Clays:	Inorganic:	Pl plots below "A" line		МН	Elastic Silt K,L,M
No. 200 sieve	Liquid limit 50 or more	Organic:	Liquid limit - oven dried	< 0.75	ОН	Organic clay K,L,M,P
		Organic.	Liquid limit - not dried	< 0.75	OF	Organic silt K,L,M,Q
Highly organic soils:	Primaril	y organic matter, dark in	A PART I. MANUFACTOR CONTRACTOR CONTRACTOR CONTRACTOR	PT	Peat	

- A Based on the material passing the 3-in. (75-mm) sieve
- ^B If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.
- ^c Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.

 Sands with 5 to 12% fines require dual symbols: SW-SM well-graded
- sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay

^E Cu =
$$D_{60}/D_{10}$$
 Cc = $\frac{(D_{30})^2}{D_{10} \times D_{60}}$

- $^{\rm F}$ If soil contains \geq 15% sand, add "with sand" to group name.
- ^G If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

- $^{\rm H}$ If fines are organic, add "with organic fines" to group name.
- If soil contains ≥ 15% gravel, add "with gravel" to group name.
- If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.
- $^{\rm K}$ If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.
- lf soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.
- M If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.
- N PI ≥ 4 and plots on or above "A" line.
- O PI < 4 or plots below "A" line.
- P PI plots on or above "A" line.
- ^o PI plots below "A" line.

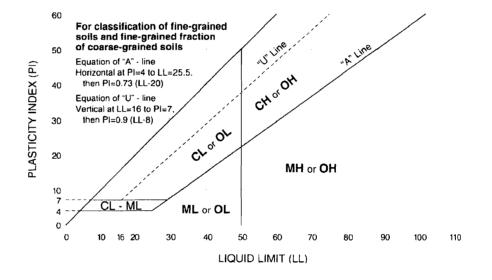
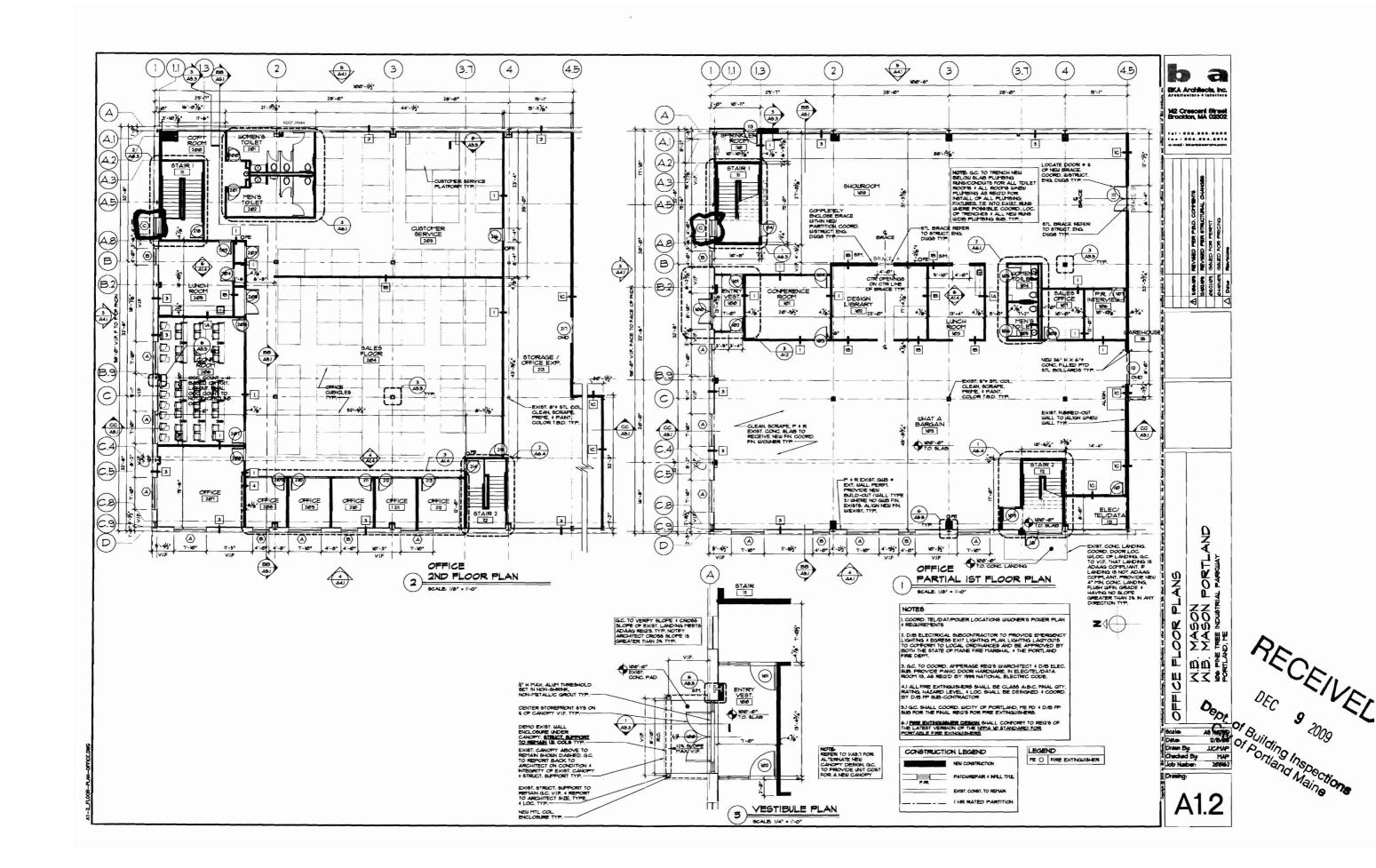


Exhibit B-2





LUPON RECEIPT FROM THE MANUFACTURER, THE INSTALLER SHALL INSPECT ALL MATERIALS FOR DETECTS, SHIPPING DAMAGE, CORRECT COLOR AND PATTERN. DAMAGED OR INCORRECT ALERS AND ALL BE RETURNED TO THE MANUFACTURER FOR INTEDIATE REPLACEMENT TO PREVENT DELIATS IN THE COMPLETION OF THE WORK THE INSTALLER SHALL INFORM THE ARCHAIN DETECTIVE MATERIALS. AND COORDINATE WITH THE MANUFACTURER FOR AN ACCURATE SHIPPING DATE FOR THE REPLACEMENT MATERIALS. THE GENERAL CONTRACTOR SHALL NOTIFICATION THREDISTELLY OF LOCATION CHANGES IN DYE LOTS OR COLOR SHIPTS.

2. ALL FINISHES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S FINISH SPECIFICATIONS AND INSTRUCTIONS AND IN A MANNER CONSISTENT WITH THE HIGHEST QUALITY STANDARDS OR WORKMANSHIP, FINISH SHALL MEET OR EXCEED ALL APPLICABLE CODE REQUIREMENTS.

N SHOULD THE INSTALLER FIND ANY DISCREPANCIES, CHISSIONS, AMBIGUITIES OR CONFLICTS ON THE PLANS, HE SHOULD BRING THE ITEM'S) TO THE ARCHITECT'S ATTENTION FOR DIRECTION BEFORE PROCEEDING WITH ANY WORK IN QUESTION, ALL NEW SURFACES TO BE PANTED SHALL RECEIVE (I) COAT PRIMER AND A MINIMUM OF (2) FINISH COATS, SECOND FINISH SHALL BE APPLIED WORSCHOOLD INTO INSTALL AND A MINIMUM OF (2) FINISH COATS, SECOND FINISH SHALL BE APPLIED WORSCHOOLD INTO INSTALL AND A MINIMUM OF (2) FINISH COATS.

- 4. DO NOT PANT PRE-FINISHED ITEMS AND SURFACES (E.G. ANODIZED ALUMNUM, BAKED ENAMEL PANELS, PLASTIC SUITCH PLATES, ETC.); UNLESS OTHERWISE NOTED.
- 5. ALL REGISTERS, VENTS, GRILLES, DIFFUSERS, ELECTRICAL CUTLET COVERS, AND ACCESS PANELS SHALL BE PRE-FINISHED TO MATCH ADJACENT WALL SURFACES, UNLESS CTI-ERWISE NOTED.
- 4. ALL DOOR FRAMES DESIGNATED TO BE PAINTED SHALL BE FINISHED WITH SEMILOUSS BNAMEL, FOR ALL SURFACES, SEE FINISH SCHEDILE.

DOOR AND GLAZING SYSTEM NOTES

APCILARE SCHEDULE PRIOR TO BUSTISSION TO ARCHITECT THE ATTRICAL BLADGE SCHEDULE PRIOR TO BUSTISSION TO ARCHITECT THE ATTRICAL BLADGE SCHEDULE PRIOR DOORS)

JOBERNAL HARDLIARE REQUIREMENTS.

HINGES, BUTTO, PIVOTS: RULL MORTISE, CONCEALED BALL BEARNAL TYPE - STANLEY OAE. (6.5. AT EXTERIOR DOORS)

HORSES, BUTTO, PIVOTS: AND LATCHERS HAD FREDOLL CYLINDRICAL LEVER BETS - BARGENT BY LINE IL LEVER HANDLE DESIGN OAE.

CLOSERS: BARGENT 1231 SERIES, LON 4641 BUFER STOOTHEE OAE. (ALL CLOSERS TO MEET ADAAG REGULATIONS)

EXIT DEVICES: VON DUPRIN - HIGH PRECIDENCY OAE. (ADAAG COMPLIANT)

DOOR TRIT: KICKPLATES-BYSTYLES*, AND PUSH-FULLS - ROCKLIDOD OAE.

FILIER BOLTS, BUENCERS, STOPE, MES OAE.

THRESHOLDS (1/3" HAXMAM) AND WEATHERS TRIPPING; NATIONAL GUARD OAE.

- S) PREPARE DOORS AND FRAMES, (7) PER HEADER OF DBL, DR FRAMES TO RECEIVE HARDWARE AS PER FINAL SCHEDULE, PROVIDE FOR (5) SILENCERS ON SINGLE DOOR FRAMES, PROVIDE LOT LESS THAN (3) ANCHORS PER JAMS FOR ANCHORING OF FRAMES TO WALLS OR PARTITIONS.

NOT LESS THAN (3) ANCHORS PER LAYER FOR ANCHORNS OF RIANTES TO UNLES OR PARTITIONS

1) VIA "TREPRETED CLATING SHALL BE USED AT ALL DOOR AND ADJACENT LOCATIONS AS NOIGATED ON THIS SHEET IN CONFORMANCE WITH THE LATEST REQUIREMENTS OF 2003 INC WITHE STATE OF 16 AMPROPRIATS, 2003 UNFORM FIRE CODE, I HAVE LESS ATTAILED IN A ILL RAITED PRAYE WITH THE SAME DESIGNATION.

3) ALL ALUMINIT THRESHOLDS SHALL BE SET IN GROUT AND SHALL NOT EXCEED INTO IN ELECTIFIED ADJACE REGULATIONS.

3) INSTALL DOORS WITH NOT MORE THAN 18Y CLEARANCE AT TOP AND SIDES, WY CLEARANCE AT BOTTOM EXCEPT WERRE NOTED OTHERWISE.

1) ALL NITERIOR ITETAL DOORS SHALL BE CONCRETE OR OF OUR SIDES, WY CLEARANCE AT BOTTOM EXCEPT WERRE NOTED OTHERWISE.

1) ALL NITERIOR ITETAL DOORS SHALL BE CONCRETE OR OF OUR WALL SHALL BE WELDED AND FILL PUBM DESIGN, FACTORY PRIVED AND FIELD PANTED.

2) DOOR RAMPES INSTALLED WITHIN A CONCRETE OR OF OUR WALL SHALL BE WELDED AND FILL PUBM DESIGN, FACTORY PRIVED AND FIELD PANTED.

3) ALL NITERIOR HETAL FRAMES SHALL BE WED OF STEEL WE TO SHOP IN SAME.

3) ALL NITERIOR HETAL FRAMES SHALL BE WED OF STEEL WE TO SHOP IN SAME.

3) ALL NITERIOR HETAL FRAMES SHALL BE WED OF STEEL WE TO SHOP IN SAME.

4) ALL NITERIOR HETAL FRAMES SHALL BE WED OF STEEL WE TO SHOP IN SAME.

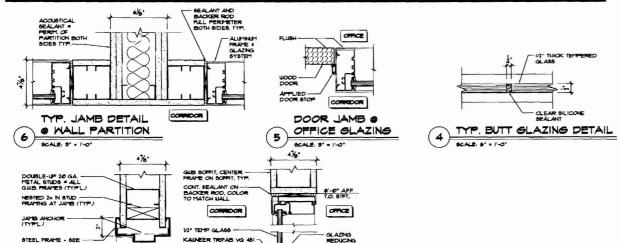
4) ALL NITERIOR HETAL FRAMES SHALL BE WED ON SHOP STEEL WE TO SHOP IN SAME.

4) ALL NITERIOR HETAL FRAMES SHALL BE WED AND BE IS GAUSE GOUR STEEL WE TO SHOP IN SAME.

4) ALL NITERIOR HETAL REPROSEDED WITH HITERED OR COPED CORNERS, FACTORY PRIMED AND FIELD PANTIED.

4) ALL NITERIOR HETAL REPROSE SHALL BE WEDDED AND BE IS GAUSE GALLY ANIZED SHEET STEEL UP TO SHOP WE WERE AGAINED.

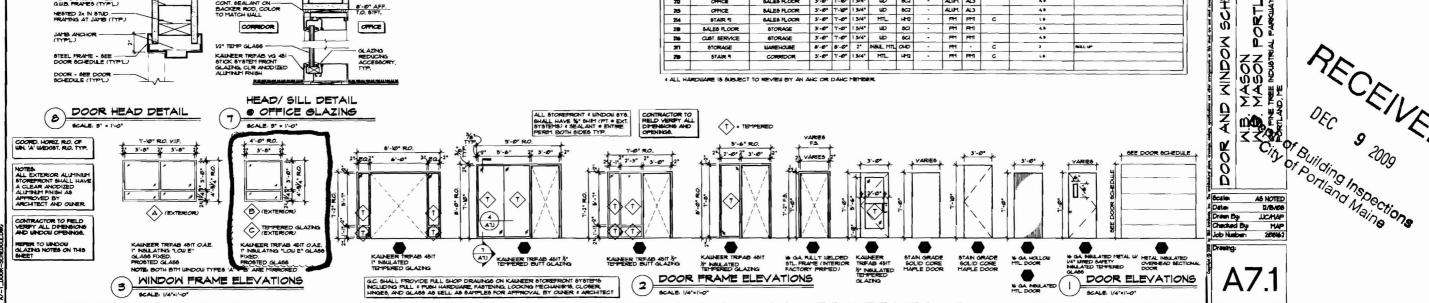
4) ALL DESTRUCTION HETAL REPROSED AND PRILD PANTIED.



NOTE; PROVIDE MEATHER STRIPPING # DOOR PERMETER # THRESHOLD, ALL EXTERIOR DOORS "NOTE; GLC. COORD ROUGH OPPINIG SIZE TO HANDACTURER'S RECOPPENDATIONS ACCORDING TO FINISH OPPININGS NOTED

L PROVIDE CLOSER 2, PROVIDE CYLINDER LOCK 3, PROVIDE PUSH PULL 4, PROVIDE LEVER LOCK SETS 5, PROVIDE LEVER HANDLES 6, PROVIDE PÁNIC HARDWARE WLEVER HANDLE ON PULL SIDE

NO.	to									AME			
		PROM	MOTH	HGHT.	THICK	MATL	ELEV	GLAS6	-	MEV.	LADEL	HARDWARE FUNCTION.	REMARKS
100	FIRST	LOOR					_		_	_			
	EXTERIOR	ENTRY VESTIBLLE	(2)3'-0"	1'-0"	13/4"	ALUM	ALM	CLEAR	ALUM	AL4		12,5	PROVES MATHER STREETING & DOOR PERSONS
101	ENTRY VESTIBLLE	SHOURDOM	3'-0"	7'-0"	15/4"	ALIM	ALM	CLEAR	ALUM	AL2		123	PROVIDE MEATHER STROTTING & DOOR PERSPETER
MEST	ENTRY VESTIBULE	WHAT A BARGAIN	3'-0'	7'-0"	13/4"	AUM	ALM	CLEAR	ALUM	AL2	-	(2,3	PROVIDE MEATHER STREETING & DOOR PERSONETER
W 3	CONFERENCE RM	SHOUROOM	3'-0"	1'-10"	13/4"	шо	502	-	ALUM	ALI	-		Певадр
164	CONFERENCE RM	WHAT A BARGAIN	5'-0"	7'-10"	13/4"	шо	802		ALIM	ALI			
100	WOTEN'S TOILET !	CORRIDOR	3'-0"	7'-0"	13/4"	up o	SCI		FH	PP-11		4,0	PROVIDE STATTAGE NICK PLATEURDERCHT DOOR
106	MEN'S TOILET I	CORRIDOR	3'-0'	T-0"	13/4"	шо	80	-	PH	PMI	<u> </u>	4,0	PROVIDE STORYKEN KICK PLATEUROPERCUT DOOR
197	HR OFFICE	SHOURCOM	3'-0'	7'-10"	13/4"	шо	602	<u> </u>	AUM	ALI	-		
ios	SALES OFFICE	WHAT A BARGAIN	3.0	7'-10"	1 3/4"	IID.	5C2	·	AUM	All		- ·	
193	WHAT A BARGAN	STAIR * 2	3'-0"	7'-0"	13/4	HTTL	HMQ		F#1	PM	c	1.0	-
B .	UHAT A BARGAN	ELEC. / TEL / DATA	3'-0'	7-0	13/4"	MIL	HM2		PH	PHI	c	49	
	SHOUROOM	MAREHOUSE	(2)5'-0'	7'-0"	13/4	HTL.	ul-ro	-	FFF	PHI!	c	4.	PROVIDE TILBIN BOLT ONE ADE / LEVER LOCK SET OFFICER'S DOOR.
_		HAREHOUSE	8:-0	8-0	2.	NEUL MIL	ОНО		PH	-	c	1	SELL UP
	WHAT A BARGAN		3'-0"	7'-0"	13/4"	NOUL HTL	HMD	-	PH	PHI	<u> </u>	113	
13	SPRINKLER ROOM	EXTERIOR	3'-0'	1-0	13/4"	MIII.	HPU	-	PH PH	PP-1		10	
14	SHOURDOM	STAIR *1	3'-0'	7'-0"	13/4	NOUL HTL	HMZ	VIS PANEL	FH -	PHI		1.0	PROVIDE MEATING STREETING & DOOR THE STREET
-	EXTERIOR	STAIR 2	-	7'-0"	1 3/4"	MD MD	-			1	-:-		PREVIOUS MEATHER STREETING & DOOR PROFESTER.
16	DRIVERS' ROOM	WAREHOUSE	3'-0'	-	13/4	-	8CI	VIS PANEL	PM	PHI	<u> </u>	40	PROVIDE SYSTEMS HOCK PLATE
п	HEN'S TOILET 2	WAREHOUSE	-	1'-0"		шо			FH	1			HEDVIDE STUDYNESS FOCK PLATEANDERCUT DOOR
	MOMEN'S TOILET 2	WAREHOUSE	3'-0"	1'-0"	13/4"	шо	\$CI		PH	PHI	<u> </u>	40	PROVIDE STATISMS* KICK PLATEANDERCHT DOOR
PO.	EXTERIOR	WAREHOUSE	30.	7'-0"	13/4"	NOUL HTL	HHS	VIS PANEL	-	PHI			PROVIDE SEATHER STREPTHS & DOOR PERFETER THRESHOLD
200	GARAGE ADDITION	WAREHOUSE	30.	7'-0"	1 3/4"	INSUL MIT	HMZ	-	H	PMI	-		PROVIDE BEATIER STIEFFING & DOOR PENETER NAMESHOLD
121	GARAGE ADDITION	WAREHOUSE	3'-0'	7'-0"	13/4"	NOUL MIL	HM2		PH	PMI			PROVIDE SEATHER STREPPING & DOOR PERFETER
D2	EXTERIOR	GARAGE ADDITION	30,	1'-0"	1 3/4"	NEUL MIL	HMZ		PH	PHI	С		OV HIL MELDING HIGH
23	EXTERIOR	GARAGE ADDITION	3'-0"	1'-0"	13/4"	NOUL HTL			m	m		1	OV HIL MILDON HOUR
84	GARAGE ADDITION	WAREHOUSE	14'-0"	3-0	2.	INSUL MIL	_		PH			11	PROVER MEATHER STREPPING & DOOR PERSENTER
128	GARAGE ADDITION	WAREHOUSE	8'-0"	3-0'	2.	NOUL MIT	ОНО		FM	·			PROVIDE MEATHER STREPHIS & DOOR PENETER THRESHOLD
26	GARAGE ADDITION	WAREHOUSE	8'-0"	3-0'	2"	NEUL MIL	-		Ħ	-			PROVES BEATHER STREETING & DOOR PERSONETER THERMOLD
27	GARAGE ADDITION	WAREHOUSE	8'-0"	3.0.	2*	NEUL HTL	ОНО		Ħ				PROVER MATHER STITETING & DOOR PRINTERS
20	GARAGE ADDITION	WAREHOUSE	8-0	3-0	2"	NSUL HTL		(*)	PH	-		•	PROVOE SEATHER STREPPING - DOOR PENETER THRESHOLD
29	EXTERIOR	GARAGE ADDITION	8'-0"	8-0	2"	NOUL MIL	ОНО	•	PH	•	•		MICTORAL SY HILL SINL DONE HEAR
150	EXTERIOR	GARAGE ADDITION	22'-0'	Q'-4"	2"	NOUL MIL	ОНО		FM				SECTIONAL / SY HIL SELDING HERR
194	EXTERIOR	GARAGE ADDITION	22'-@'	12'-4"	2*	NOUL HTL	ОНО		Ħ	•			SECTIONAL SY HIL SELDING HOUR
182	EXTERIOR	GARAGE ADDITION	22'-0"	12'-4"	2"	NSUL MIL	ОНО	-	PH	-			SECTIONAL BY HIL MILDON PER
193	EXTERIOR	GARAGE ADDITION	22'-0"	12'-4"	2.	NOUL HTL	OHD.	-	Ħ	-		•	MCTIONAL / BY MIL MILDING HOUR
194	EXTERIOR	WAREHOUSE	6'-0"	8-0	2"	NEUL MIL	OHD		PH		•		PROVIDE SEATHER STREETING S DOOR PERSONELLER
	SECOND	FLOOR		_	_		_		_				
200.	MOMEN'S TOILET 2	CORRIDOR	3'-0"	1'-0"	13/4"	шо	50		PH	PHI		LD	PROVIDE S'AST'ASS' KICK PLATEANDERCHT DOOR
261	MEN'S TOILET 2	CORREDOR	3'-0"	T-0"	13/4"	шо	sci		PH	FMI		La	PROVIDE SYSTEMS KICK PLATEURDERCHT DOOR
162	LUNCH ROOM	CORRIDOR	3'-0"	1'-10"	15/4"	шо	6C2		ALUM	AL1		•	
269	CUSTOMER SERVICE	CLOSET .	3'-0'	7'-0"	13/4"	шо	SCI	-	PH	PHI		•	
204	LUNCH ROOM	CLOSET	3'-0'	1'-0"	13/4"	шо	sci		FH	PM		•	
250	SALES FLOOR	CLOSET .	(23'-0"	1'-0"	1 3/4"	шо	5CI		FH.	PHI		•	
206	CONF. ROOM 9	SALES FLOOR	3'-0"	7'-10"	1 5/4"	шо	5C2	-	ALUM	ALI			
267	CONF. ROOM 9	SALES FLOOR	3'-0"	7'-10"	1 3/4"	шо	502		ALUM	ALI		•	
200	OFFICE	SALES FLOOR	3'-0'	T'-10"	13/4"	шо	802	-	ALUM	ALI			
200	affice	SALES FLOOR	3'-0"	7'-10"	13/4"	шо	502	-	ALIM	AL3		4.0	
70	affice	SALES FLOOR	3'-0"	1'-10"	13/4"	шо	5C2	-	AUM	AL3		4.6	
23	OFFICE	SALES FLOOR	3'-0"	7'-10"	13/4"	шо	6C2	- :-	AUM	ALD		4.	
202	OFFICE	SALES FLOOR	3'-0'	1'-10"	13/4"	шо	6C2	<u> </u>	ALUM	ALS		40	
213	OFFICE	SALES FLOOR	3'-0'	7'-10"	13/4"	шо	862	-	ALUM	ALS	-	40	
	STAIR 2	SALES FLOOR	3'-0"	7'-0"	13/4"	HIL	HHD		FH	PMI	c	16	
214			3-0	1-0	15/4	WD.	80		FH	PHI	-	40	
219	SALES FLOOR	STORAGE	3.0	7'-0"	13/4"	шо	8CI	-	EH.	PMI		4	
216	CUST. SERVICE	STORAGE		-			OHD	-	1	Mali	-	- 40	sau ur
207	STORAGE STAIR 9	CONNEDOR	8'-0'	8'-0"	2'	MEUL MIL	OHD		PH PH	PMI	c	1	MAL OF



b a BKA Architects, Inc.

142 Crescent Street Brockton, MA 02302

PER PELO COTTENTO
PER STELLINEAL CANAGES
IN PERSONS
IN PRICAS A INSEARS

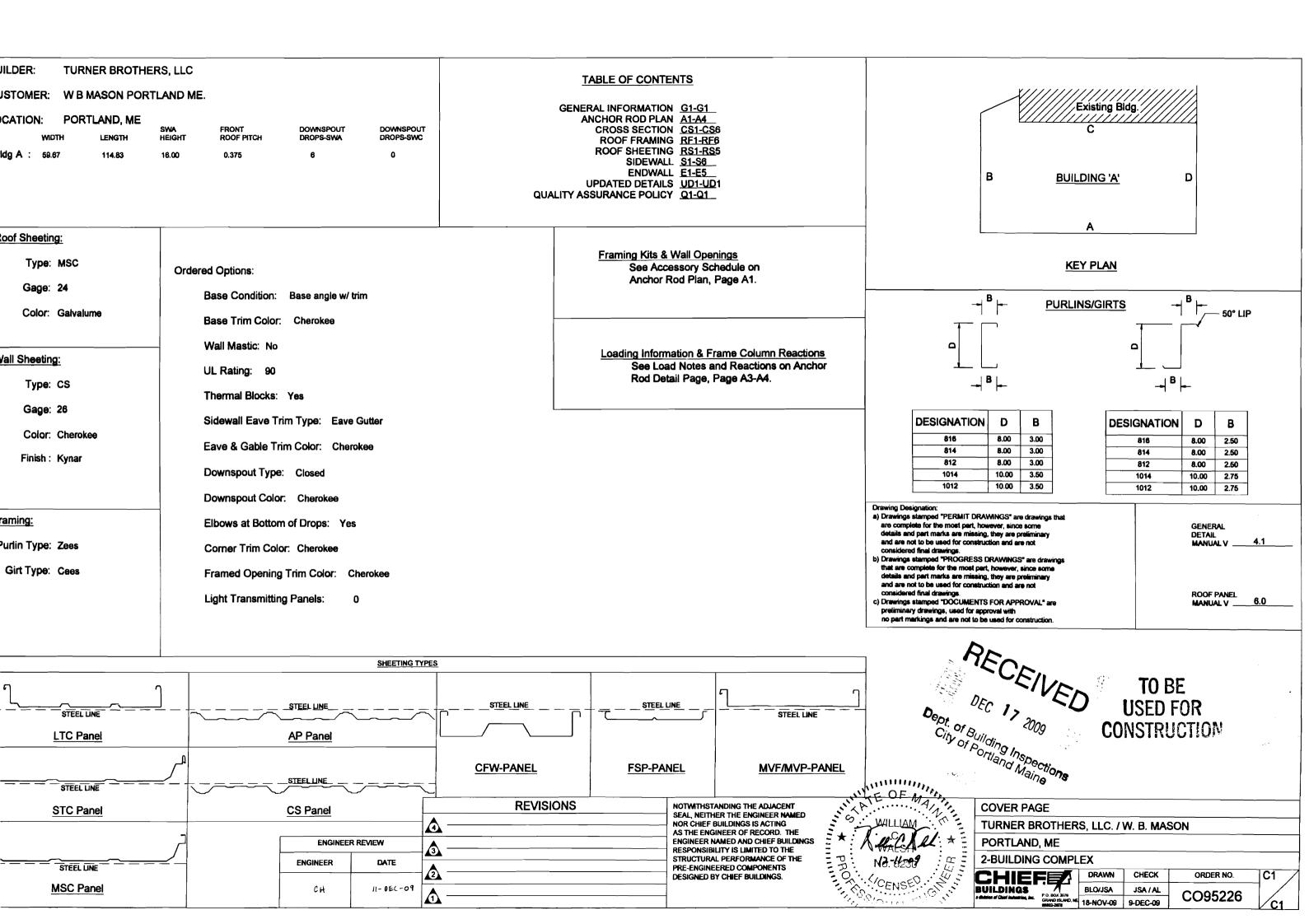
TANSARS

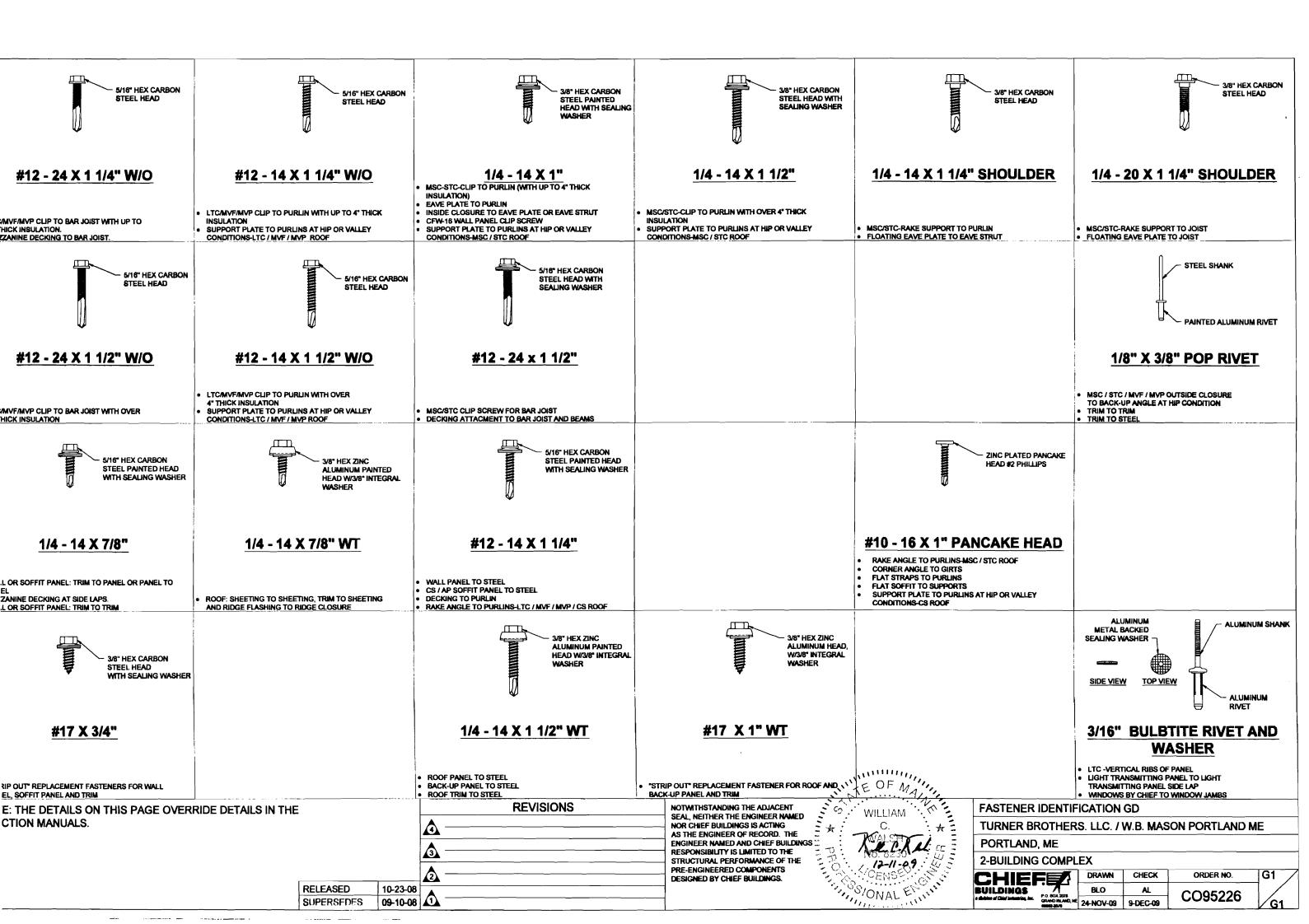
COLOURS

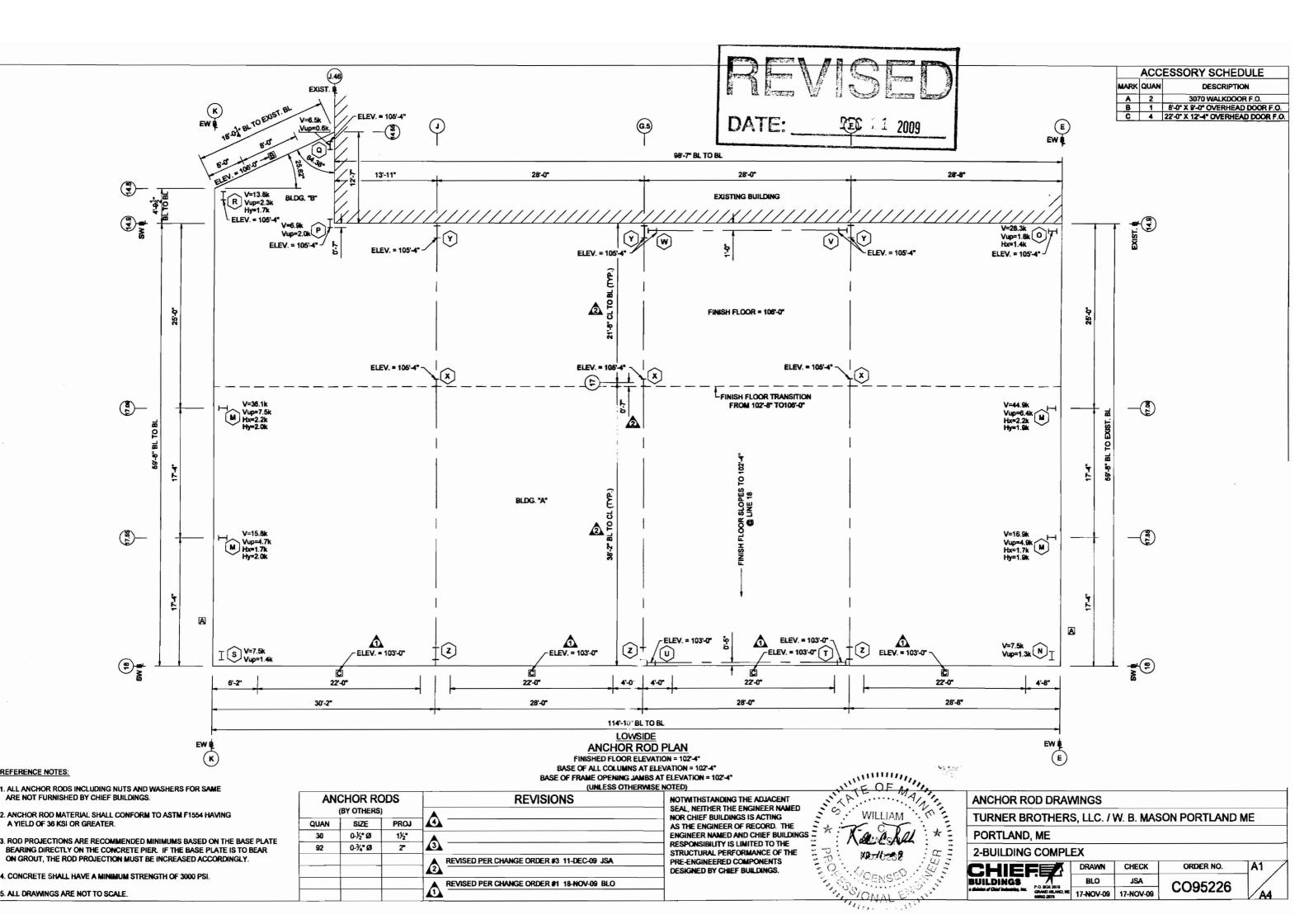
COLOURS

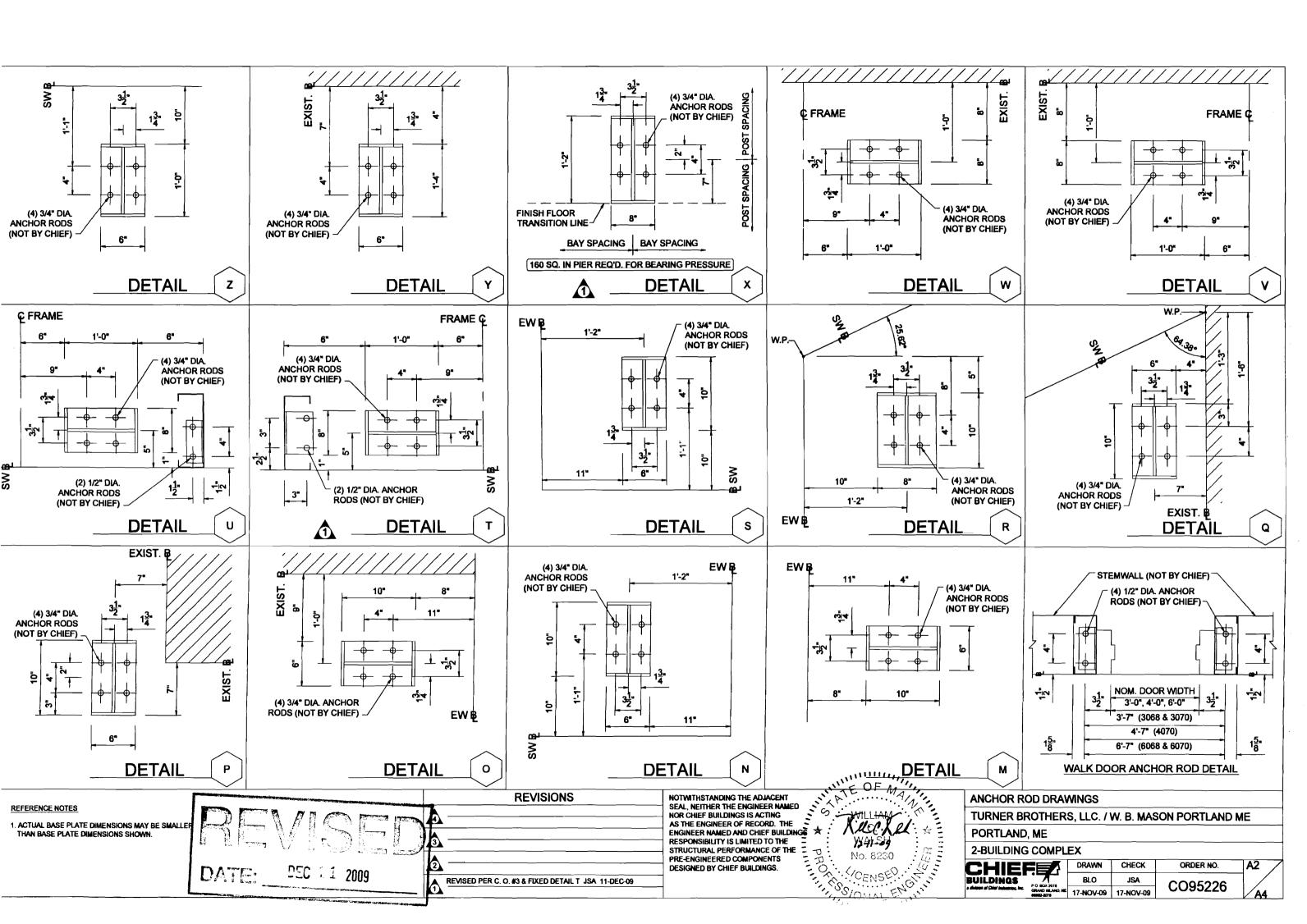
Delice

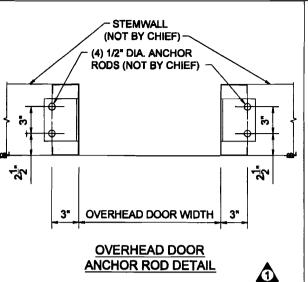
のの上下ワント下の PORTLAND







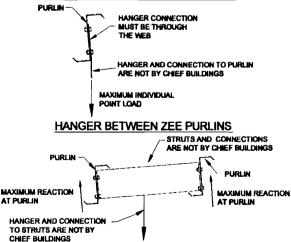


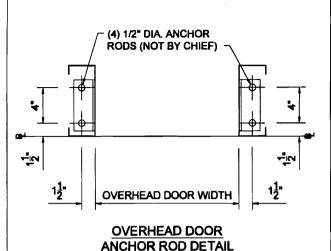


his building has been designed for a collateral load of 5 psf. he total applied loads due to ceiling panels, ducts, sprinkler istribution lines, electrical equipment, conduit, fireproofing, ther piping and mechanical loads, etc., cannot exceed this ollateral load. In no case shall the total uniform collateral load n an Individual roof member exceed the product of 5 psf times ne spacing of the supporting member. Nor shall any individual pint load or summation of point loads on any one roof member xceed the product of 5 psf times the member spacing times urlin can exceed 100 lbs. All loads suspended from purlins hall have the load introduced through the web and not the flanges or through holes in the flanges of the purlins. Design f hangers and their attachments are not by Chief Buildings. hief Buildings is NOT responsible for lateral or longitudinal racing of suspended members subjected to horizontal service, eismic, or wind loading.

hief Buildings neither assumes nor accepts any responsibility or the design of hangers, bracing of suspended members, ansverse support members, nor connections to roof purlins. It the responsibility of the Buyer/Contractor and/or End Owner have this design performed by a registered design rofessional.

HANGER AT INDIVIDUAL ZEE PURLIN

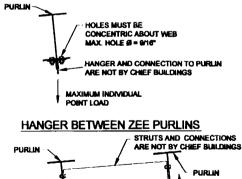




This building has been designed for a collateral load of 5 psf. The total applied loads due to ceiling panels, ducts, sprinkler distribution lines, electrical equipment, conduit, fireproofing, other piping and mechanical loads, etc., cannot exceed this collateral load. In no case shall the total uniform collateral load on an individual roof member exceed the product of 5 psf times the spacing of the supporting member. Nor shall any individual point load or summation of point loads on any one roof member exceed the product of 5 psf times the member spacing times half the alf the member length. In addition, no individual point load on a member length. In addition, no individual point load on a purlin can exceed 300 lbs. All loads suspended from purlins shall have the load introduced through the web and not the flange of the ange of the purlin. Hangers cannot be supported from the edge purlin. Hangers cannot be supported from the edge of flanges. Maximum 9/16" diameter holes can be drilled in the flanges of the WF purlins for support clips (not by Chief Buildings.) Design of hangers and their attachments are not by Chief Buildings. Chief Buildings is NOT responsible for lateral or longitudinal bracing of suspended members subjected to horizontal service, seismic, or wind loading.

> Chief Buildings neither assumes nor accepts any responsibility for the design of hangers, bracing of suspended members, transverse support members, nor connections to roof purlins. It is the responsibility of the Buyer/Contractor and/or End Owner to have this design performed by a registered design professional.

HANGER AT INDIVIDUAL ZEE PURLIN



MAXIMUM REACTION AT PURLIN

HANGER AND CONNECTION

TO STRUTS ARE NOT BY CHIEF BUILDINGS

BASE ANGLE (A-20-B) **CONTRACTOR IS RESPONSIBLE** OR BASE GIRT (BG) FOR ANCHORING BASE MEMBER TO CONCRETE. MASTIC (NOT BY CHIEF)

WITHOUT NOTCH

BASE ANGLE (A-20-B) OR BASE GIRT (BG) MASTIC 4 (NOT BY CHIEF) RAMSET, ANCHOR ROD, OR **EXPANSION BOLT (2" FROM**

EACH END THEN SPACING FROM FASTENER SPACING CHART) (TYP.) -

BASE MEMBER DETAILS

WITH NOTCH

ONE PIECE BASE ANGLE (OPB) MASTIC (NOT BY CHIEF) 21. **WITHOUT** MIN. NOTCH

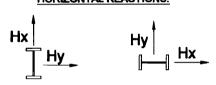
BASE ANCHORAGE SPACING BASE GIRT OR ONE PIECE FASTENER TYPE & DIAMETER 1/4" WEDGE ANCHOR ① 1/4" SCREW TYPE ANCHOR ① 3/8" CAST-IN ANCHOR 1/4" HAMMER-IN ③ 0.14" POWDER ACTUATED ②	MINIMUM EMBEDMENT	MAXIMUN SPACING
1/4" WEDGE ANCHOR ①	1 1/4"	3'-0"
1/4" SCREW TYPE ANCHOR ②	1 1/2"	3'-0"
3/8" CAST-IN ANCHOR	4" WITH HOOK OR HEAD	3'-0"
1/4" HAMMER-IN ③	1 3/8"	2'-0"
0.14" POWDER ACTUATED (4)	1 1/4"	1'-6"

- 1) HILTI KWIK BOLTO, RAMSET TRUBOLTO, POWERS
- POWERSTUDE, OR EQUAL

 ② CFS TAPCONE, HILTI KWIK-CON IIE, POWERS WEDGE-BOLTE,
- 3 POWERS ZAMAC HAMMER SCREWS, HILTI METAL HIT ANCHORS,
- POWERS BALLISTIC POINT PIN, RAMSET 1500/1600 SERIES,
- HILTI UNIVERSAL NAIL OR EQUAL

FASTENER SPACING CHART

ORIENTATION OF HORIZONTAL REACTIONS:



Hx IS PARALLEL TO THE COLUMN WEB AND Hy IS PERPENDICULAR TO THE COLUMN WEB, FOR ALL ENDWALL COLUMNS & SOLDIER COLUMNS BY CHISE BUILDINGS.

- 1. COLUMN FOOTINGS AND PIERS MUST BE DESIGNED TO WITHSTAND HORIZONTAL AND VERTICAL REACTIONS AS SHOWN ON THE ANCHOR ROD PLAN. CHIEF BUILDINGS IS NOT RESPONSIBLE FOR DESIGN OF CONCRETE FOUNDATION. CHIEF BUILDINGS RECOMMENDS THAT THE SERVICES OF A QUALIFIED ENGINEER IS OBTAINED BY THE CONTRACTOR / BUILDER TO DESIGN THE FOUNDATIONS FOR THE INDICATED REACTIONS.
- 2. REACTIONS ARE GIVEN IN KIPS. (1 KIP = 1000 LBS.) MOMENTS, IF ANY, ARE GIVEN IN KIP-FT.
- 3. ANCHOR ROD DESIGN IS BASED ON SHEAR, TENSION, AND COMBINED TENSION AND SHEAR. CHIEF BUILDINGS IS NOT RESPONSIBLE FOR ANCHOR ROD SIZE RECOMMENDATIONS WHEN ANCHOR ROD CONFIGURATION PLACES THE RODS IN A BENDING MODE. WHEN THE COLUMN BASE PLATE BEARS ON GROUT, THE CONTRACTOR / BUILDER OR FOUNDATION ENGINEER SHALL INVESTIGATE BENDING IN THE ANCHOR RODS AND PROVIDE A SHEAR KEY FOR THE COLUMN BASE TO THE PIER WHEN THE ANCHOR RODS ARE NOT ADEQUATE IN BENDING ABOUT THE PIER.

Building Design Criteria CO95226

Building Code IBC 2003 2002 MBMA Occupancy Category Standard Buildings Roof Live Load 20 psf (Tributary Area Reduction Allowed) Collateral Load 5 psf Ground Snow Load (Pg) 70 psf Exposure Factor (Ce) 1.0 Thermal Factor (Ct) 1.0 Importance Factor (I) 1.0 Fiat Roof Snow Load (Pf) 49 psf **Building Enclosure Enclosed** Wind Speed 94 mph (GCpi ± 0.18) **Exposure Category** Importance Factor (i) 1.0 Wind Pressure (q) 13.46 psf Seismic Spectral Response Short Periods (Ss) 37.0% Spectral Response 1 s Period (S1) 10.0% Seismic Importance Factor 1.0 **Use Group Design Category** C Site Class D Seismic Resisting System Longitudinal Direction Steel System (R=3.0) Lateral Direction Steel System (R=3.0) Seismic Response Coefficient (Cs) 0.124 Spectral Response Parameter Short Period (SDS) 0.371 Spectral Response Parameter 1 s Period (SD1) 0.160 **Analysis Procedure** ELF

REFERENCE NOTES

1. ACTUAL BASE PLATE DIMENSIONS MAY BE SMALLER THAN BASE PLATE DIMENSIONS SHOWN

REVISIONS REVISED PER CHANGE ORDER #1 18-NOV-09 BLO

MAXIMUM REACTION

TAT PURLIN

NOTWITHSTANDING THE ADJACENT SEAL, NEITHER THE ENGINEER NAMED NOR CHIEF BUILDINGS IS ACTING AS THE ENGINEER OF RECORD. THE ENGINEER NAMED AND CHIEF BUILDINGS RESPONSIBILITY IS LIMITED TO THE STRUCTURAL PERFORMANCE OF THE PRE-ENGINEERED COMPONENTS DESIGNED BY CHIEF BUILDINGS.

OF MAN PE OF MAIN

Base Shear

Other Loads:

ANCHOR ROD DRAWINGS

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

19.218 lbs.

None

PORTLAND, ME

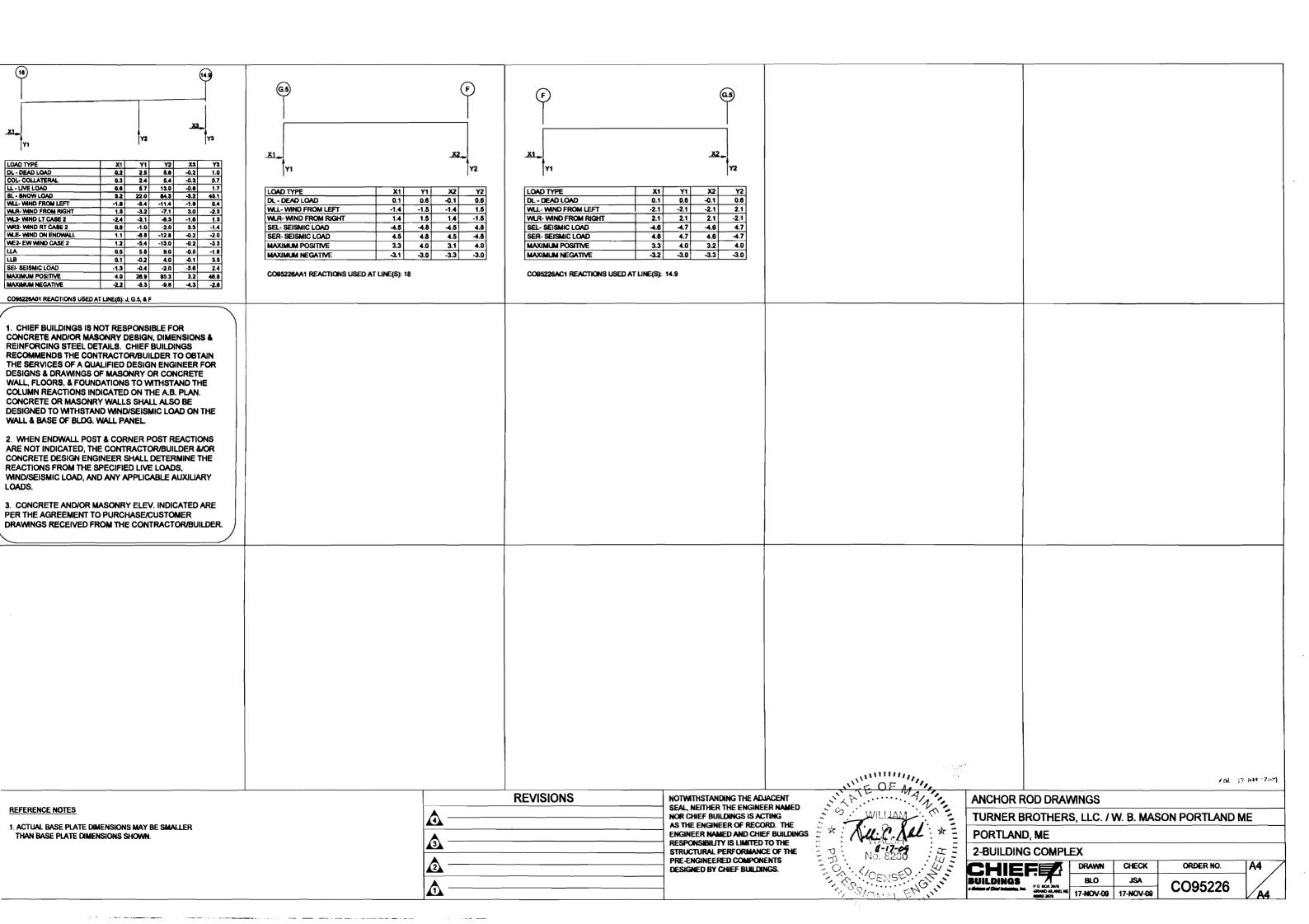
2-BUILDING COMPLEX

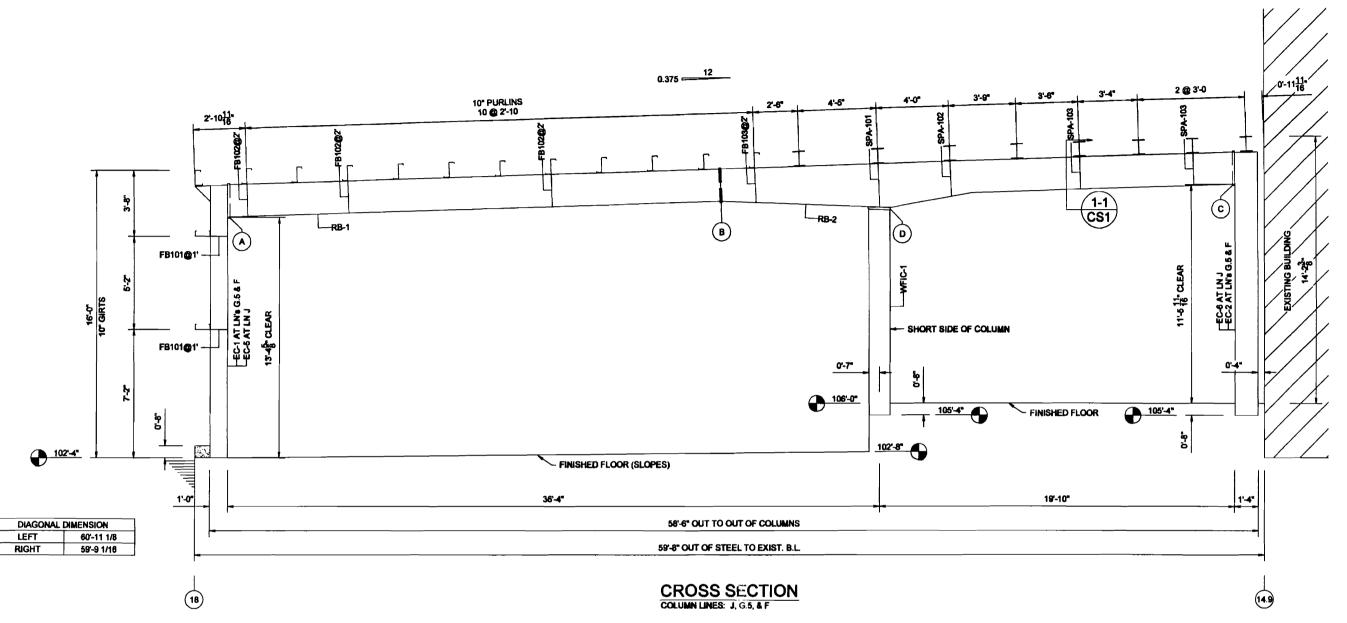
BUILDINGS

DRAWN CHECK ORDER NO. BLO CO95226 17-NOV-09 17-NOV-09

A3

104 18-NON- 89





ERENCE NOTES

OLTING RECOMMENDATIONS—ALL RIGHTS TRENGTH
OLTS ARE A-325 WITH HEAVY HEX NUTS AND ARE TO
E INSTALLED USING THE SNUG TIGHT METHOD PECIFIED IN THE 'SPECIFICATION FOR STRUCTURAL DINTS USING ASTM A325 BOLTS', PUBLISHED BY CSC, DATED JUNE 30,2004. SNUG TIGHT CONDITION ATTAINED WITH A FEW IMPACTS OF AN IMPACT ARENCH OR THE FULL EFFORT OF AN IRON WORKER SING AN ORDINARY SPUD WRENCH TO BRING THE LIES INTO FIRM CONTACT.

OLT SPECIFICATIONS - ALL BOLTS SPECIFIED HROUGHOUT THESE DRAWINGS WILL BE HIGH DIMENSIONS.

TRENGTH BOLTS CONFORMING TO ASTM A325 BOLT PECIFICATIONS SUBSTITUTION OF MILD STEEL BOLTS 8. FLANGE BRACES ARE REQUIRED ONLY ON ONE SIDE ILL VOID THE DESIGN WARRANTY.

JT SPECIFICATIONS - NUTS SPECIFIED IROUGHOUT THESE DRAWINGS WILL BE HIGH RENGTH NUTS CONFORMING TO ASTM A194 GRADE OR 2H, OR ASTM A563 GRADE C, D, OR DH NUT PECIFICATIONS. SUBSTITUTION OF MILD STEEL NUTS ILL NOT BE ALLOWED, AND ANY FIELD SUBSTITUTION ILL VOID THE DESIGN WARRANTY.

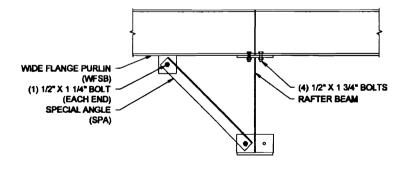
L ELEVATION DIMENSIONS ARE TAKEN FROM OTTOM OF FRAME COLUMN BASE PLATE. REFER TO ICHOR ROD DRAWING FOR BASE OF COLUMN EVATION.

- OLTING RECOMMENDATIONS—ALL HIGH STRENGTH 4. TEMPORARY BRACING SHALL BE INTRODUCED OLTS ARE A-325 WITH HEAVY HEX NUTS AND ARE TO WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS IMPOSED UPON THE STRUCTURE DURING THE ERECTION PROCESS.
 - 5. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE MARKED.
 - 6. ALL DRAWINGS ARE NOT TO SCALE.
 - 7. NOTE: * REFER TO GENERAL DETAILS AND SECTIONS FOR ROOF SHEET OVERHANG AND SPLICE LAP
- ILL NOT BE ALLOWED AND ANY FIELD SUBSTITUTION OF FRAME, EXCEPT THOSE FLANGE BRACES THAT ARE PRECEDED WITH A (2)FB... ARE REQUIRED ON BOTH SIDES OF THE FRAME.
 - 9. EAVE HEIGHT DIMENSION IS NOT ALWAYS TO THE TOP OF THE EAVE STRUT. DUE TO THERMAL BLOCK SITUATIONS, EAVE HEIGHT DIMENSION AND TOP GIRT SPACE DIMENSION MAY BE TO THE INTERSECTION OF THE TOP OF THE PURLINS. REFER TO THE EAVE DETAILS FOR MORE INFORMATION.
 - 10. ALL WELDS HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBF AT MINUS 20 DEGREES F.

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SPLICE BOLT TABLE										
SPLICE	NO	SiZE	DEPTH							
Α	10	5/E X 1 1/2	1'-10							
В	10	5/6 × 1 1/2	1'-10							
С	10	5/8 × 1 1/2	1'-10							
0	4	5/8 X 2	1'-0							



SECTION (

REVISIONS	NOTWITHSTANDING THE ADJACENT	
<u> </u>	SEAL, NEITHER THE ENGINEER NAMED NOR CHIEF BUILDINGS IS ACTING AS THE ENGINEER OF RECORD. THE	
<u> </u>	ENGINEER NAMED AND CHIEF BUILDINGS RESPONSIBILITY IS LIMITED TO THE STRUCTURAL PERFORMANCE OF THE	¥ :
<u>^</u>	PRE-ENGINEERED COMPONENTS DESIGNED BY CHIEF BUILDINGS.	рдC :::
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THE OF MAINE **CROSS SECTION**

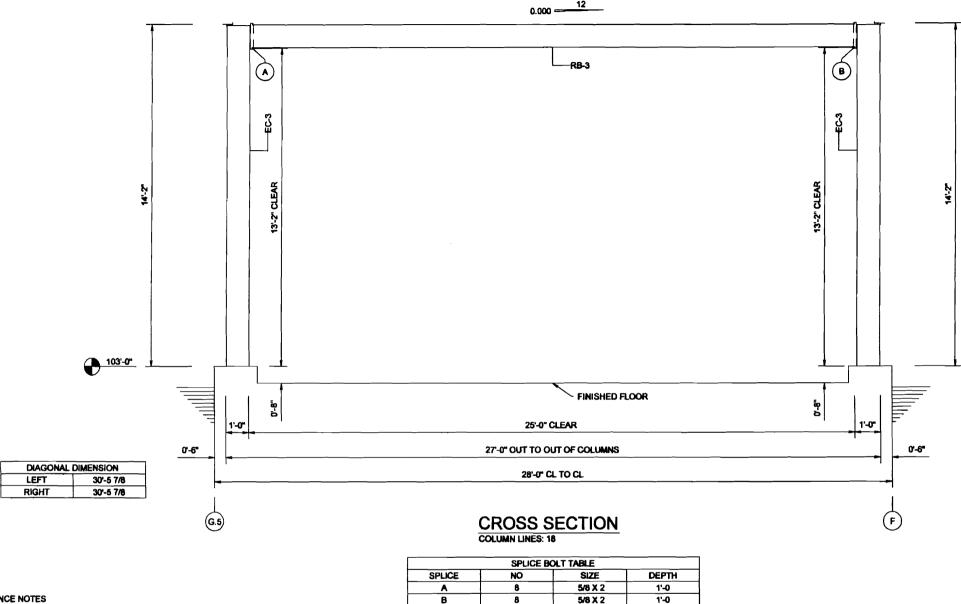
TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

2-BUILDING COMPLEX

CHIEF		DRAWN	СН							
UILDINGS	P.O. BOX 2975	BLO / AL	j							
hisian of Chief Indepting he	GRAND ISLAND, NE	17-NOV-09	7.0							

CS1 HECK ORDER NO. CO95226



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ERENCE NOTES

OLTING RECOMMENDATIONS—ALL HIGH STRENGTH OLTS ARE A-325 WITH HEAVY HEX NUTS AND ARE TO E INSTALLED USING THE SNUG TIGHT METHOD PECIFIED IN THE 'SPECIFICATION FOR STRUCTURAL DINTS USING ASTM A325 BOLTS', PUBLISHED BY CSC, DATED JUNE 30,2004. SNUG TIGHT CONDITION ATTAINED WITH A FEW IMPACTS OF AN IMPACT RENCH OR THE FULL EFFORT OF AN IRON WORKER SING AN ORDINARY SPUD WRENCH TO BRING THE JES INTO FIRM CONTACT.

OLT SPECIFICATIONS - ALL BOLTS SPECIFIED IROUGHOUT THESE DRAWINGS WILL BE HIGH FRENGTH BOLTS CONFORMING TO ASTM A325 BOLT PECIFICATIONS SUBSTITUTION OF MILD STEEL BOLTS 8. FLANGE BRACES ARE REQUIRED ONLY ON ONE SIDE ILL NOT BE ALLOWED AND ANY FIELD SUBSTITUTION ILL VOID THE DESIGN WARRANTY.

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- 5. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE
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- FOR ROOF SHEET OVERHANG AND SPLICE LAP DIMENSIONS.
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4. TEMPOKART BRACING SHALL BE INTRODUCED	
WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS	
IMPOSED UPON THE STRUCTURE DURING THE	
ERECTION PROCESS.	
ERECTION MOSESC.	

7. NOTE: * REFER TO GENERAL DETAILS AND SECTIONS

REVISIONS NOTWITHSTANDING THE ADJACENT SEAL, NEITHER THE ENGINEER NAMED NOR CHIEF BUILDINGS IS ACTING AS THE ENGINEER OF RECORD. THE ENGINEER NAMED AND CHIEF BUILDINGS RESPONSIBILITY IS LIMITED TO THE STRUCTURAL PERFORMANCE OF THE PRE-ENGINEERED COMPONENTS DESIGNED BY CHIEF BUILDINGS.

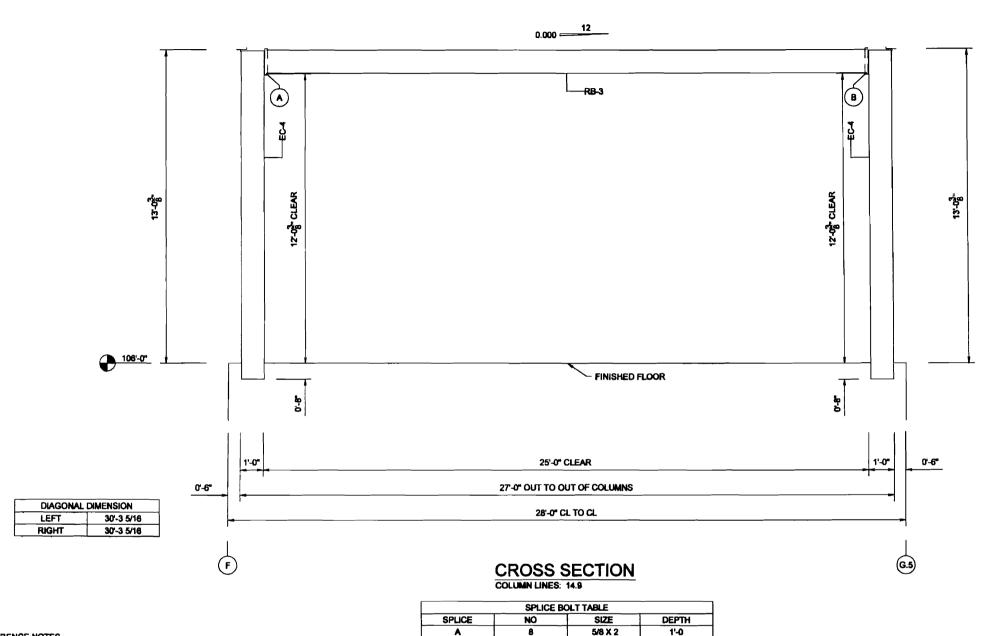
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CROSS SECTION TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME PORTLAND, ME

2-BUILDING COMPLEX

CHIEF DRAWN CHECK ORDER NO. BUILDINGS JSA BLO / AL

CS2 CO95226 17-NOV-09 7-DEC-09



RENCE NOTES

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REVISIONS 3 2

5/8 X 2

NOTWITHSTANDING THE ADJACENT SEAL, NEITHER THE ENGINEER NAMED NOR CHIEF BUILDINGS IS ACTING AS THE ENGINEER OF RECORD. THE ENGINEER NAMED AND CHIEF BUILDINGS RESPONSIBILITY IS LIMITED TO THE STRUCTURAL PERFORMANCE OF THE PRE-ENGINEERED COMPONENTS DESIGNED BY CHIEF BUILDINGS.

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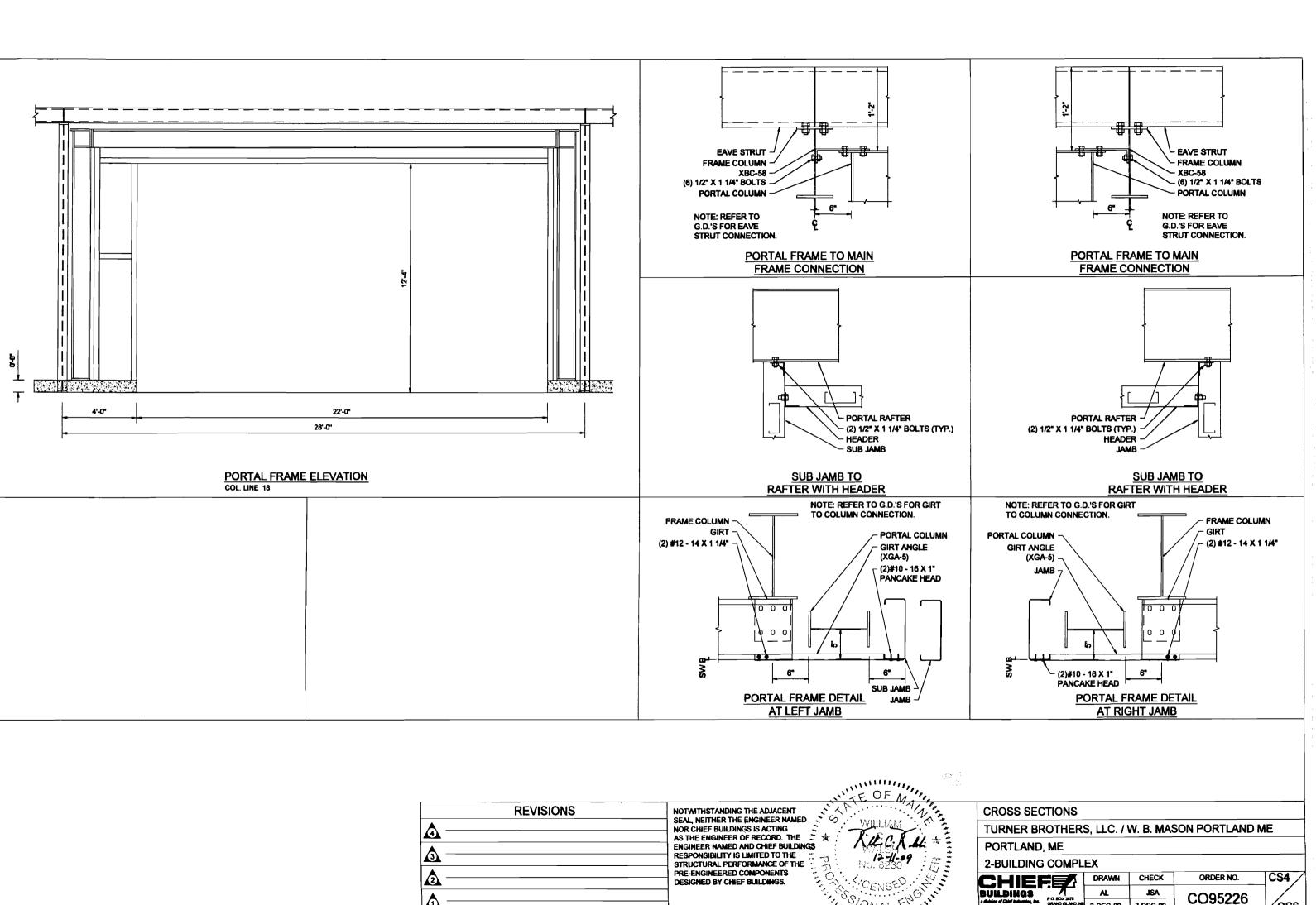
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TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

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PORTLAND, ME 2-BUILDING COMPLEX CS3 ORDER NO. CHIEF. BUILDINGS PO BOX 2015 CHECK DRAWN JSA BLO / AL CO95226 17-NOV-09 7-DEC-09



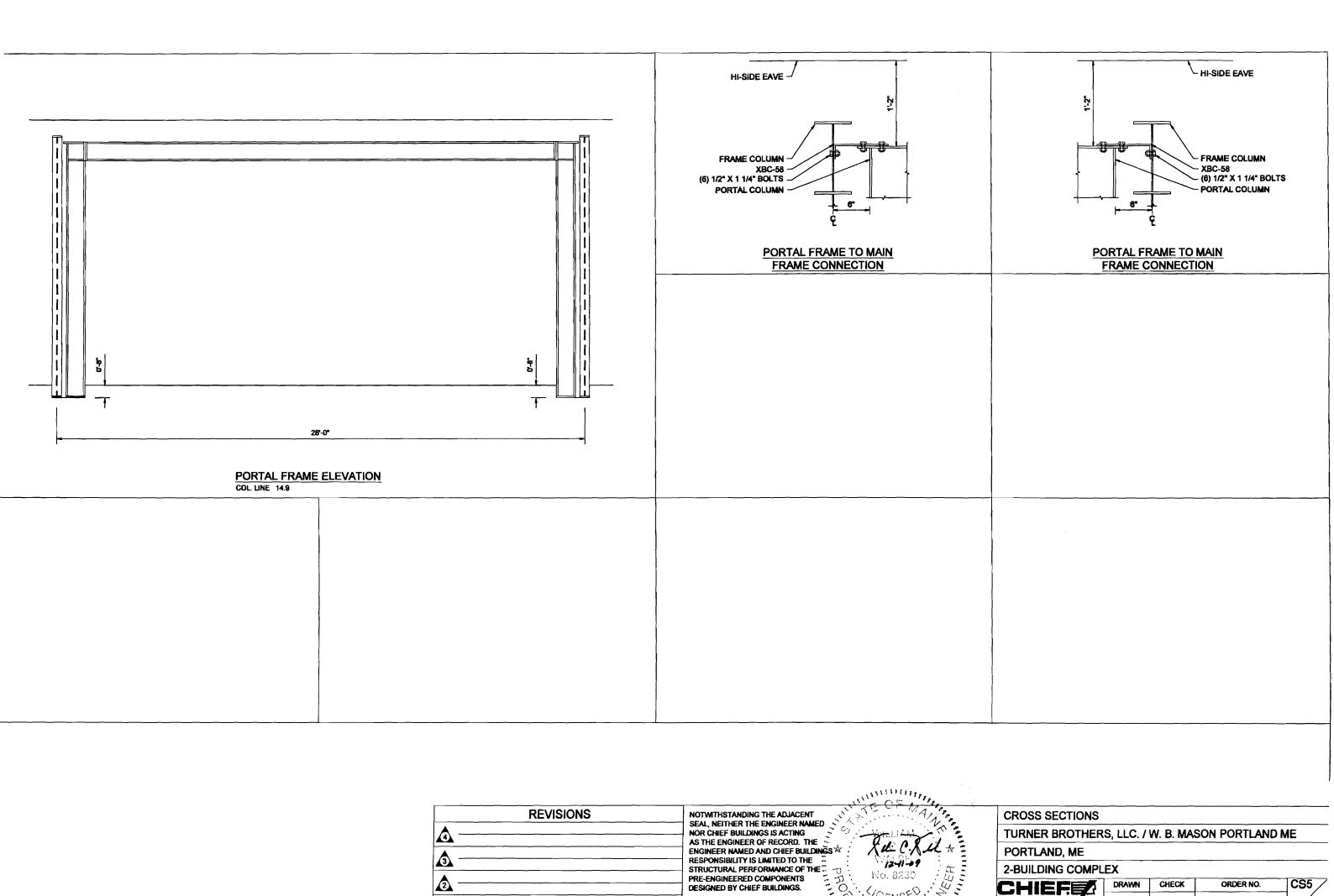
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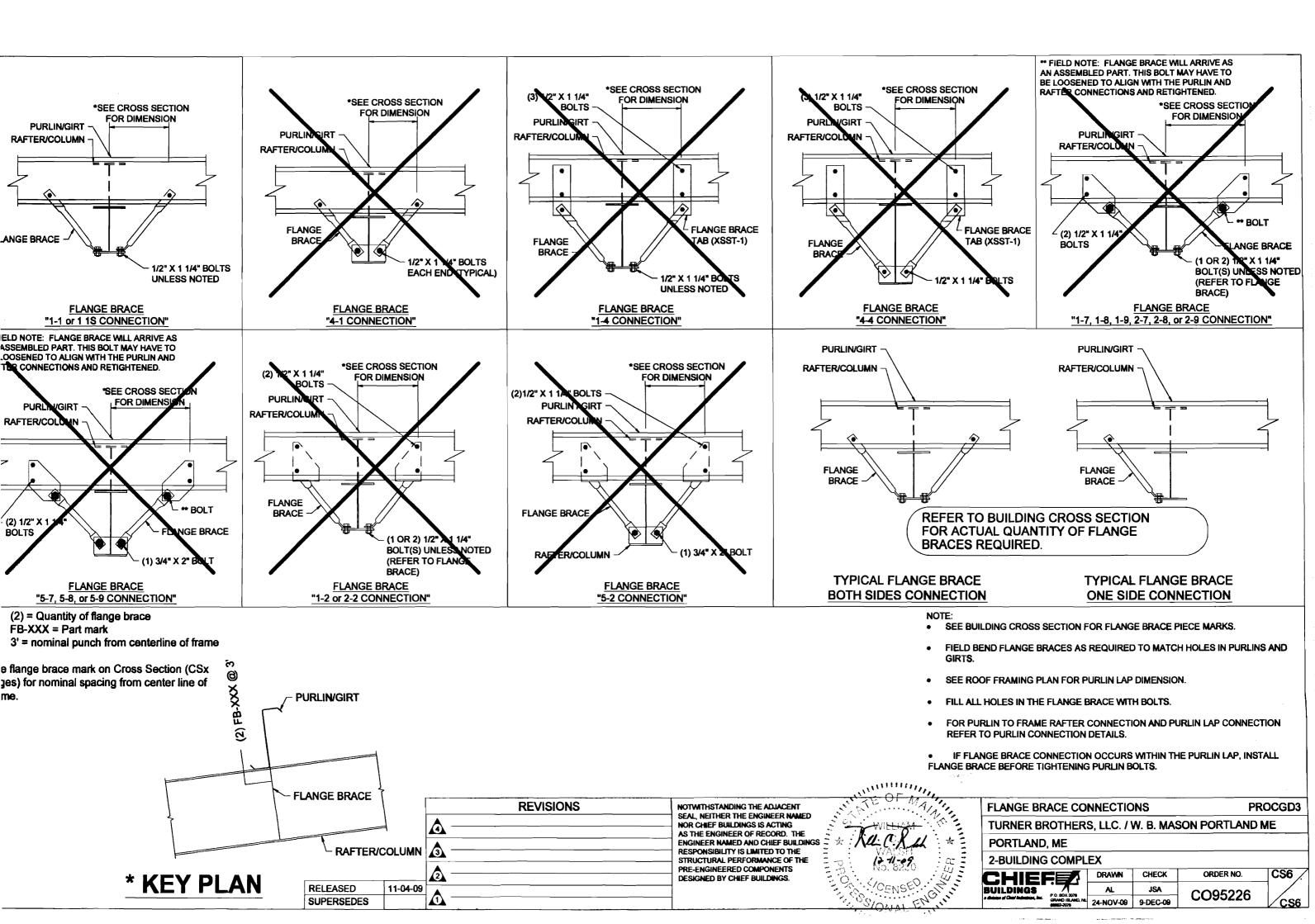
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CHIEF BUILDINGS CO. BOX 2070 CS5 DRAWN CHECK ORDER NO. AL JSA CO95226 P O. BOX 2878 GRAND SELAND, NE 2-DEC-09 7-DEC-09 CS6



oliateral Loads

his building has been designed for a collateral load of 5 pef. The total applied ada due to ceiling panels, ducts, sprinkler distribution lines, electrical quipment, conduit, fireproofing, other piping and mechanical loads, etc. innot exceed this collateral load. In no case shall the total uniform collateral ad on an individual roof member exceed the product of 5 psf times the pacing of the supporting member. Nor shall any individual point load or immation of point loads on any one roof member exceed the product of 5 psf nes the member spacing times half the member length. In addition, no dividual point load on a purlin can exceed 100 lbs. All loads suspended from irlins shall have the load introduced through the web and not the flange of the irlin. Hangers cannot be supported from the edge of flanges or through holes the flanges of the purlins. Design of hangers and their attachments are not Chief Buildings. Chief Buildings is <u>NOT</u> responsible for lateral or longitudinal acing of suspended members subjected to horizontal service, seismic, or

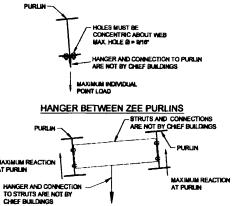
nief Buildings neither assumes nor accepts <u>any responsibility</u> for the design hangers, bracing of suspended members, transverse support members, nor nnections to roof purlins. It is the responsibility of the Buyer/Contractor d/or End Owner to have this design performed by a registered design

HANGER AT INDIVIDUAL ZEE PURLIN HANGER AND CONNECTION TO PURLIN ARE NOT BY CHIEF BUILDINGS MAXIMUM INDIVIDUAL POINT LOAD HANGER BETWEEN ZEE PURLINS MAXIMUM REACTION AT PURLIN

ollateral Loads

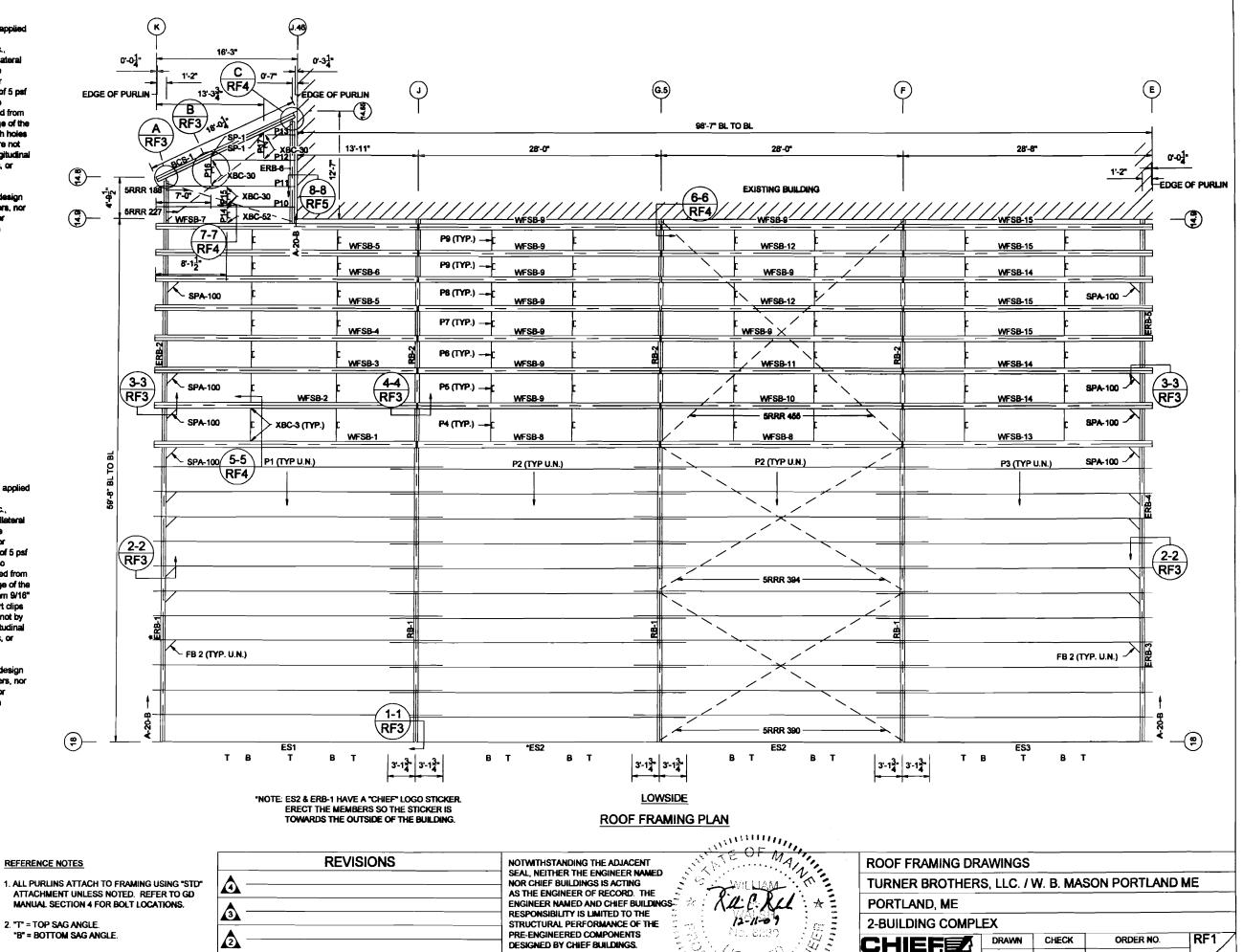
his building has been designed for a collateral load of 5 psf. The total applied ads due to cailing panels, ducts, sprinkler distribution lines, electrical uipment, conduit, fireproofing, other piping and mechanical loads, etc., nnot exceed this collateral load. In no case shall the total uniform collateral ed on an individual roof member exceed the product of 5 psf times the sacing of the supporting member. Nor shall any individual point load or immation of point loads on any one roof member exceed the product of 5 psf nes the member spacing times half the member length. In addition, no dividual point load on a purlin can exceed 300 lbs. All loads suspended from irlins shall have the load introduced through the web and not the flange of the rtin. Hangers cannot be supported from the edge of flanges. Maximum 9/16" ameter holes can be drilled in the flanges of the WF purlins for support clips ot by Chief Buildings.) Design of hangers and their attachments are not by nief Buildings. Chief Buildings is <u>NOT</u> responsible for lateral or longitudinal acing of suspended members subjected to horizontal service, seismic, or nd loading.

nief Buildings neither assumes nor accepts any responsibility for the design hangers, bracing of suspended members, transverse support members, nor nnections to roof purlins. It is the responsibility of the Buyer/Contractor d/or End Owner to have this design performed by a registered design



HANGER AT INDIVIDUAL ZEE PURLIN

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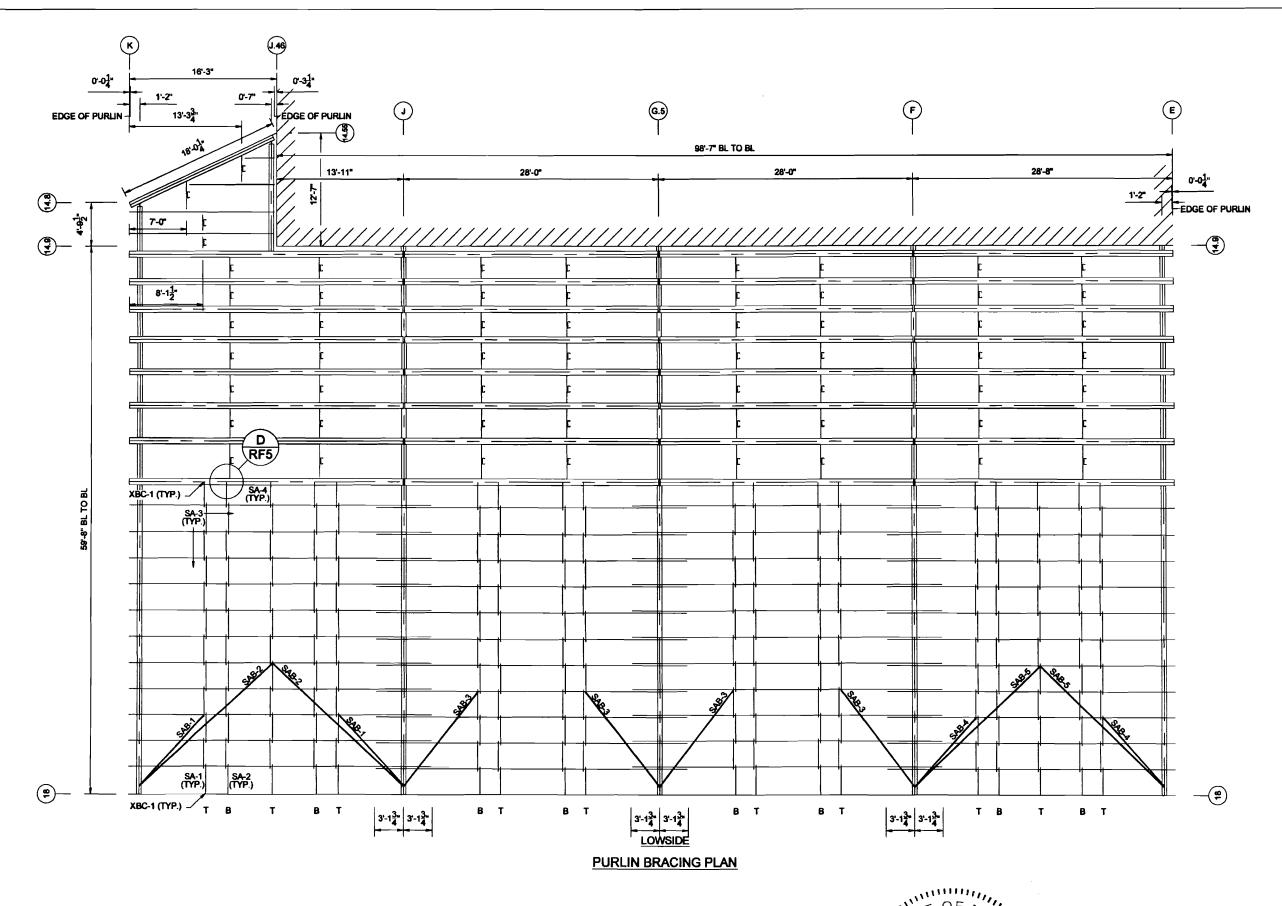
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BUILDINGS

JSA / AL

9-DEC-09

CO95226



FERENCE NOTES

ALL PURLINS ATTACH TO FRAMING USING "STD" ATTACHMENT UNLESS NOTED. REFER TO GD MANUAL SECTION 4 FOR BOLT LOCATIONS.

"T" = TOP SAG ANGLE. "B" = BOTTOM SAG ANGLE.

NOTWITHSTANDING THE ADJACENT
SEAL, NEITHER THE ENGINEER NAMED
NOR CHIEF BUILDINGS IS ACTING
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ENGINEER NAMED AND CHIEF BUILDINGSRESPONSIBILITY IS LIMITED TO THE
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DESIGNED BY CHIEF BUILDINGS.

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ROOF FRAMING DRAWINGS

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

2-BUILDING COMPLEX

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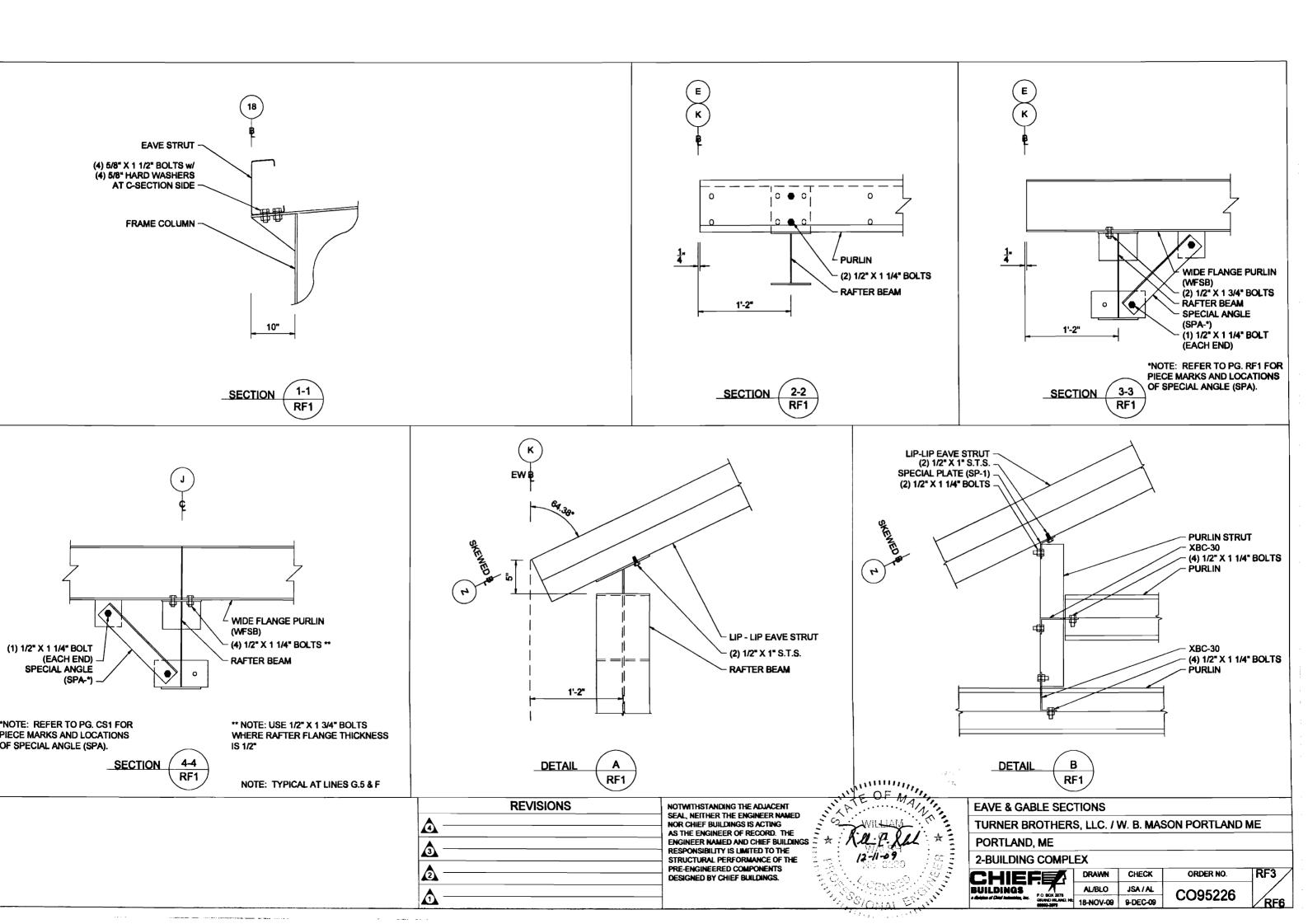
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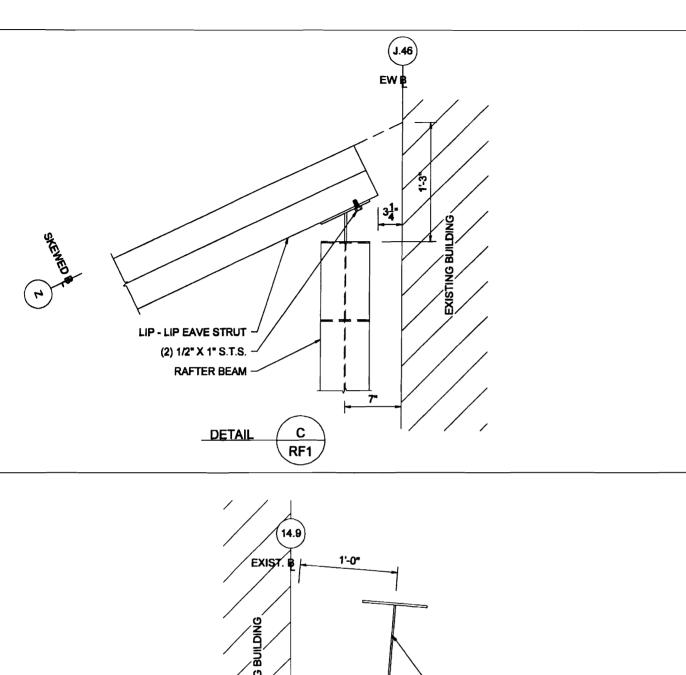
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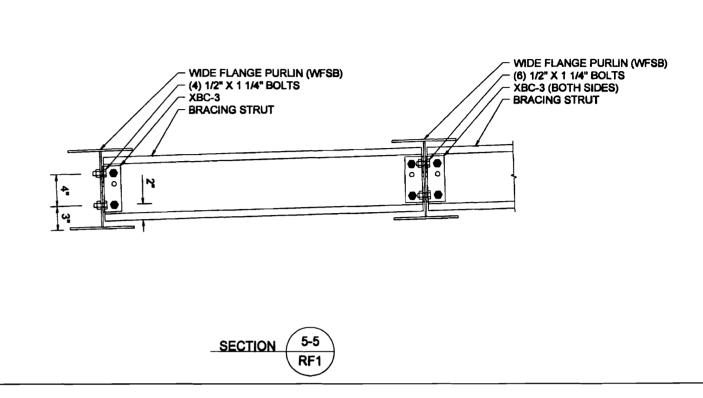
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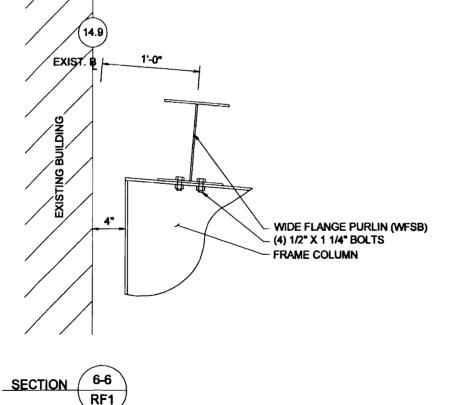
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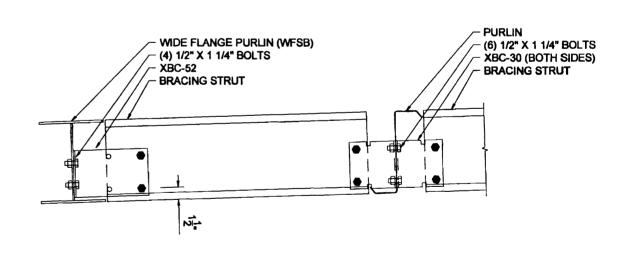
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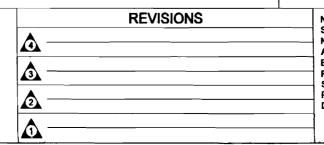












NOTWITHSTANDING THE ADJACENT SEAL, NEITHER THE ENGINEER NAMED NOR CHIEF BUILDINGS IS ACTING AS THE ENGINEER OF RECORD. THE ENGINEER NAMED AND CHIEF BUILDINGS RESPONSIBILITY IS LIMITED TO THE STRUCTURAL PERFORMANCE OF THE PRE-ENGINEERED COMPONENTS DESIGNED BY CHIEF BUILDINGS.

EAVE & GABLE SECTIONS

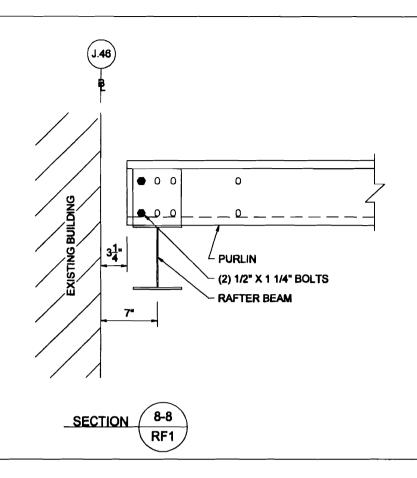
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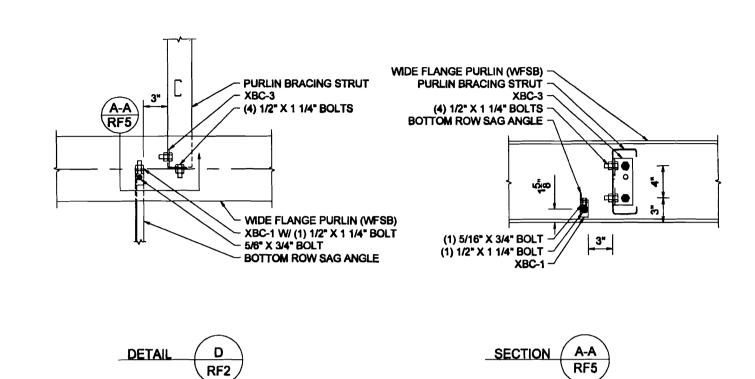
PORTLAND, ME

2-BUILDING COMPLEX

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ORDER NO. DRAWN CHECK BLO JSA / AL CO95226 18-NOV-09 9-DEC-09





REVISIONS 3 2

NOTWITHSTANDING THE ADJACENT SEAL, NEITHER THE ENGINEER NAMED NOR CHIEF BUILDINGS IS ACTING AS THE ENGINEER OF RECORD. THE **ENGINEER NAMED AND CHIEF BUILDINGS** RESPONSIBILITY IS LIMITED TO THE STRUCTURAL PERFORMANCE OF THE PRE-ENGINEERED COMPONENTS DESIGNED BY CHIEF BUILDINGS.



EAVE & GABLE SECTIONS

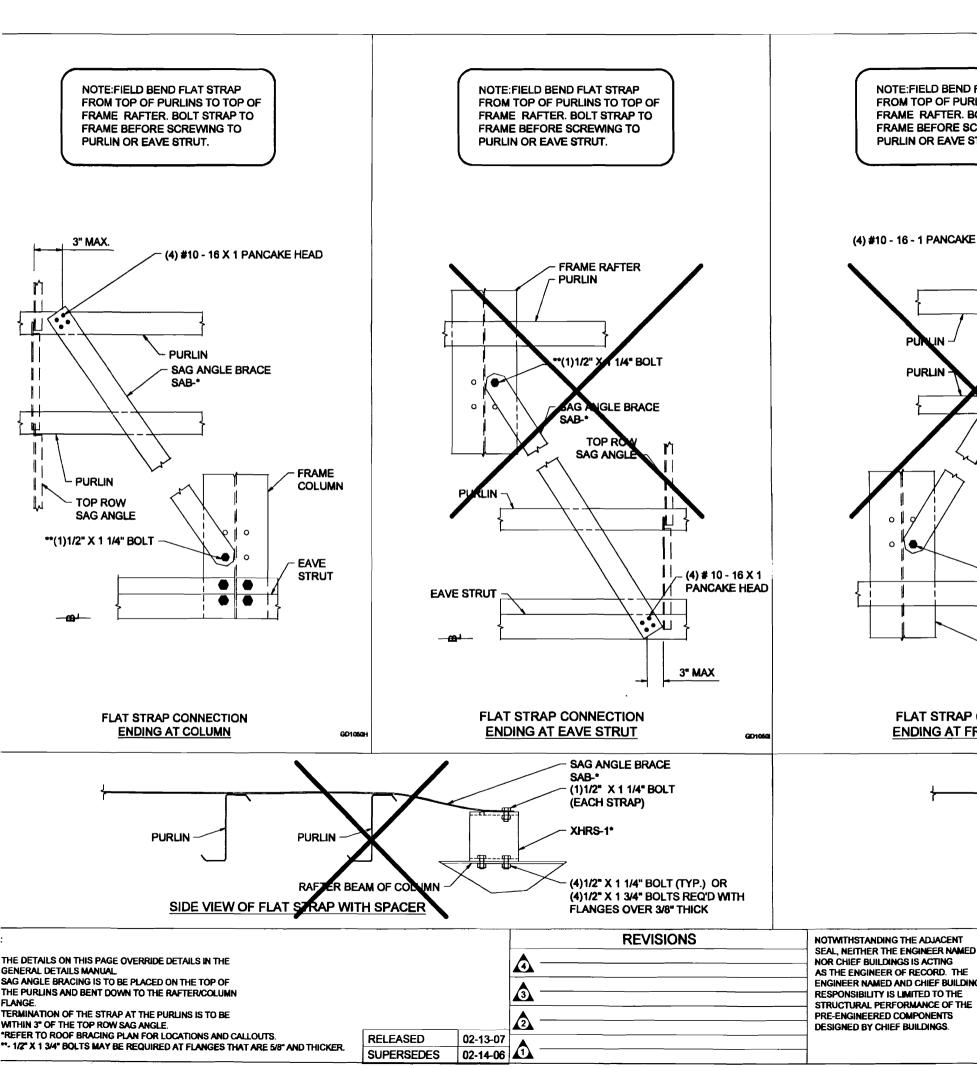
TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

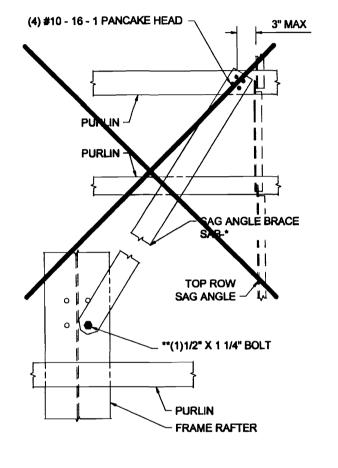
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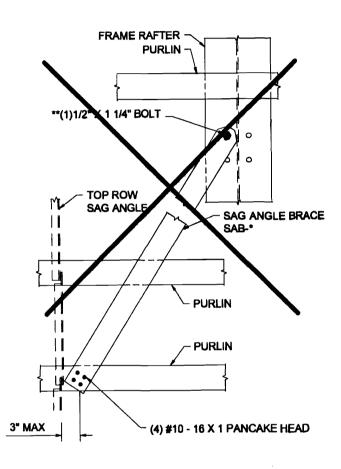


NOTE: FIELD BEND FLAT STRAP FROM TOP OF PURLINS TO TOP OF FRAME RAFTER. BOLT STRAP TO FRAME BEFORE SCREWING TO PURLIN OR EAVE STRUT.



FLAT STRAP CONNECTION ENDING AT FRAME RAFTER

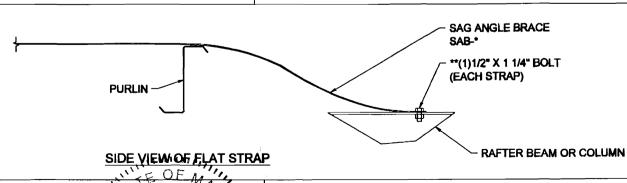
NOTE: FIELD BEND FLAT STRAP FROM TOP OF PURLINS TO TOP OF FRAME RAFTER, BOLT STRAP TO FRAME BEFORE SCREWING TO **PURLIN OR EAVE STRUT.**



FLAT STRAP CONNECTION ENDING AT PURLIN

RF6

RF6



VIEW OF MAIN NOTWITHSTANDING THE ADJACENT SEAL, NEITHER THE ENGINEER NAMED NOR CHIEF BUILDINGS IS ACTING AS THE ENGINEER OF RECORD. THE ENGINEER NAMED AND CHIEF BUILDINGS

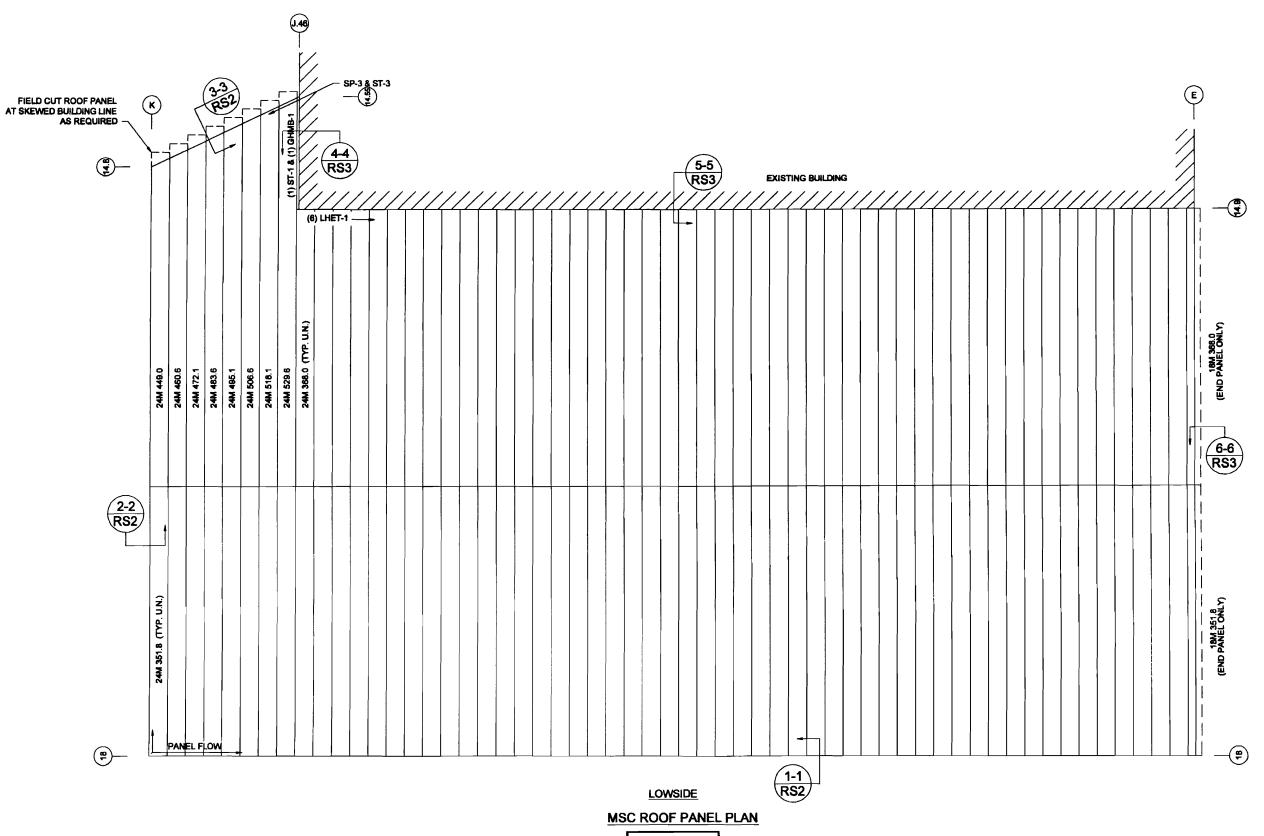
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FLAT STRAP SAG ANGLE BRACING INSTALLATION

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME 2-BUILDING COMPLEX

ORDER NO. CHECK DRAWN JSA BUILDINGS CO95226 € 24-NOV-09 9-DEC-09



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REFERENCE NOTES:
ROOF SHEETING SYSTEM IS BASED ON THE FOLLOWING:
1. FLOATING SYSTEM
2. HIGH SYSTEM
3. SLIDING CLIPS WITH (2) 1/4" - 14 x 1-1/2" FASTENERS
PER CLIP AT PURLINS AND (2) #12 - 24 x 1 1/2"
FASTENERS PER CLIP AT WIDE FLANGE PURLINS,

UNLESS OTHERWISE NOTED.

REVISIONS	
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NOTWITHSTANDING THE ADJACENT
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PRE-ENGINEERED COMPONENTS
DESIGNED BY CHIEF BUILDINGS.



MSC ROOF PANEL PLAN

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

2-BUILDING COMPLEX

CHIEF	P.O. BOX 2879 GRAND ISLAND, NE

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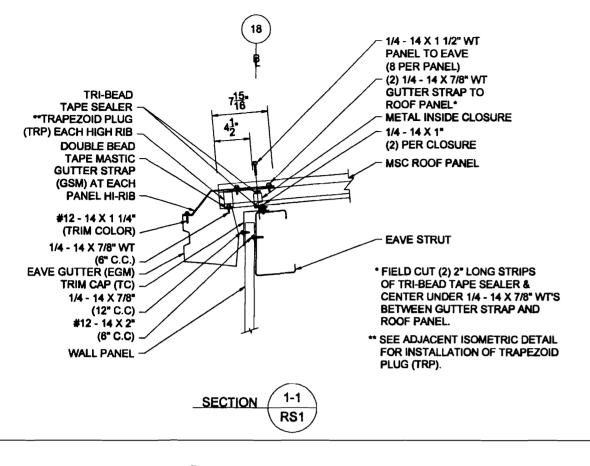
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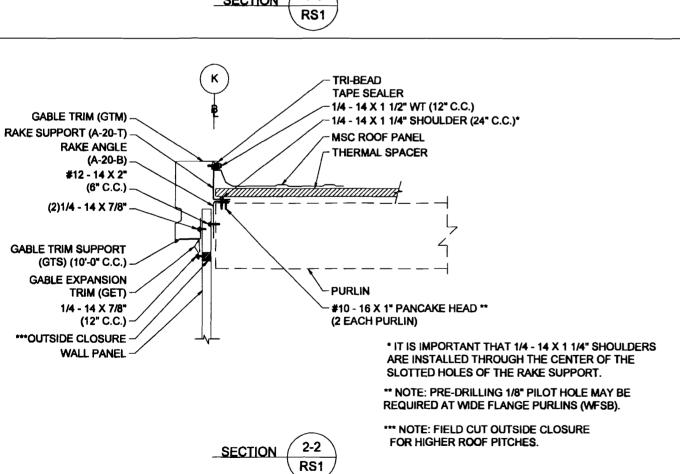
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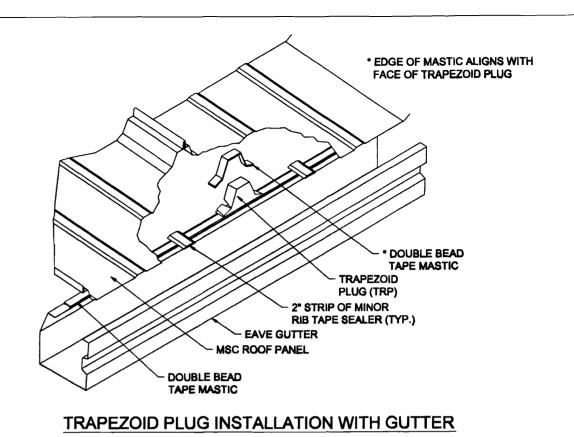
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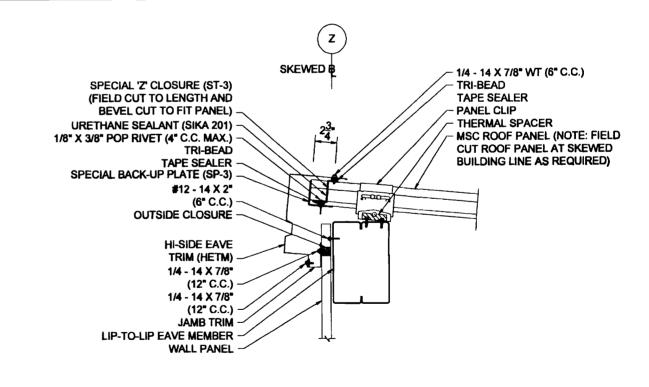
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EFERENCE NOTE:

REFER TO ROOF MANUAL DETAILS FOR **EALANTS AND SEALANT PLACEMENT.**

	REVISIONS	
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OF MANNING **EAVE & GABLE SECTIONS**

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

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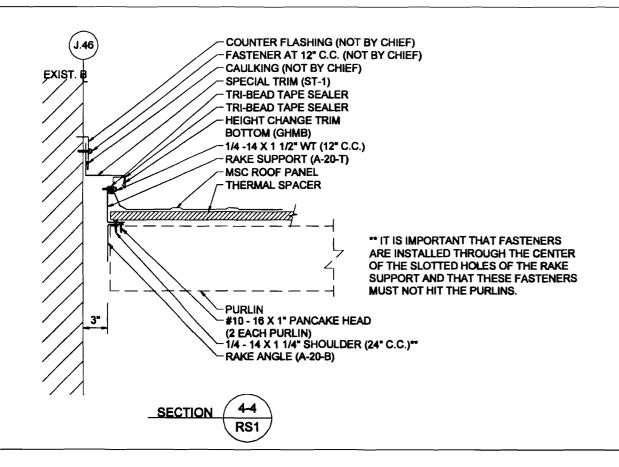
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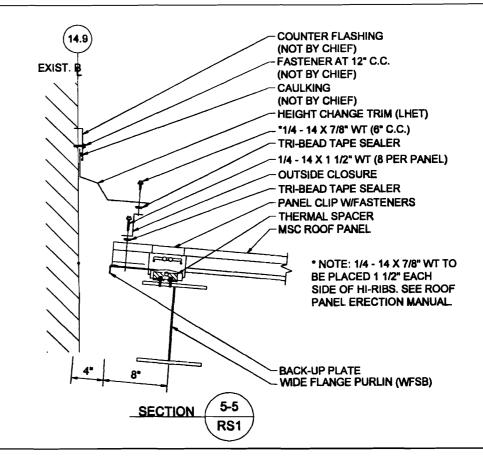
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BUILDINGS	7
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	GRAND IRLAND, NE

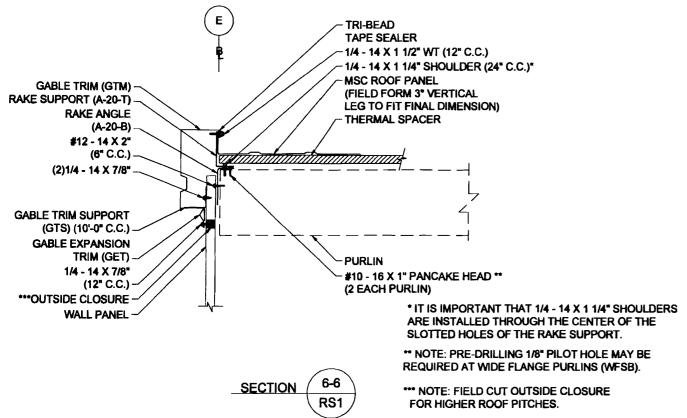
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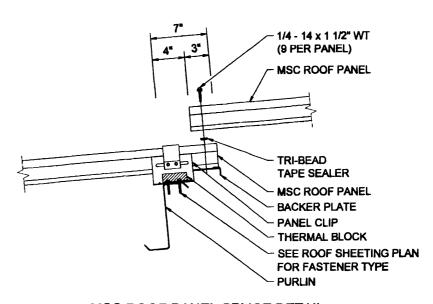
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MSC ROOF PANEL SPLICE DETAIL

REVISIONS

NOTWITHSTANDING THE ADJACENT
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EAVE & GABLE SECTIONS

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

2-BUILDING COMPLEX

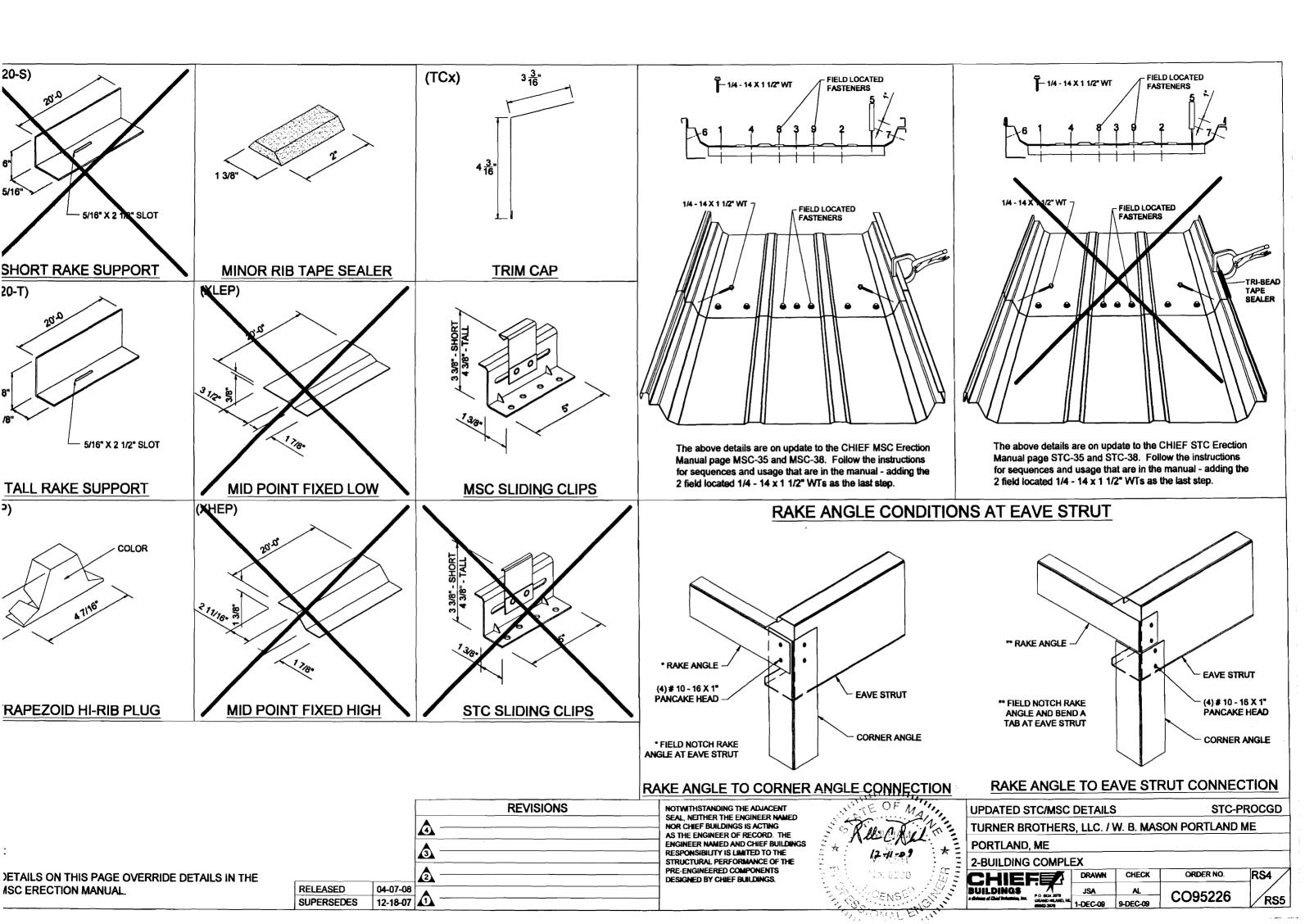
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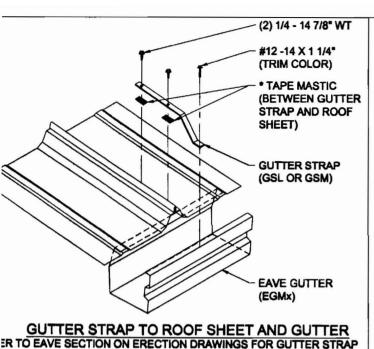
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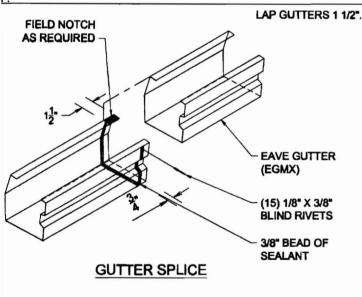


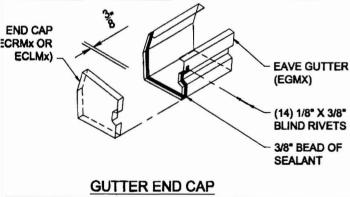


LOCATE BRACKETS AT 6'-0" C.C.

LOCATE BRACKET ON HIGH RIBS FOR CS WALL PANEL.

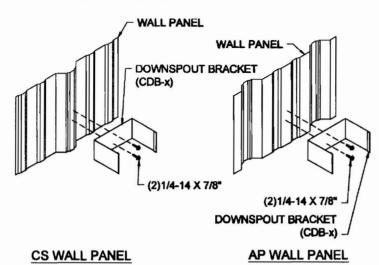
PE MASTIC WILL BE TRI-BEAD FOR STC AND MSC ROOF. USE DOUBLE LOCATE BRACKET ON FLAT OF PANEL FOR AP WALL PANEL. FOR LTC ROOF, TAPE MASTIC NOT REQUIRED FOR MVF OR MVP





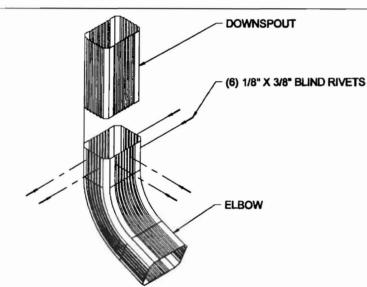
RENCE NOTES: LL SEALANT IS SIKA 201.

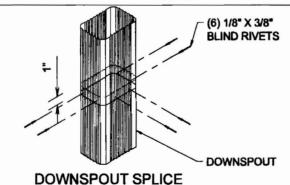
RILL 1/8" DIA. HOLE FOR 1/8" X 3/8" BLIND RIVETS.



BRACKET TO WALL PANEL

ATTACH BRACKET TO DOWNSPOUT WITH (2)1/8" X 3/8" BLIND RIVET EACH





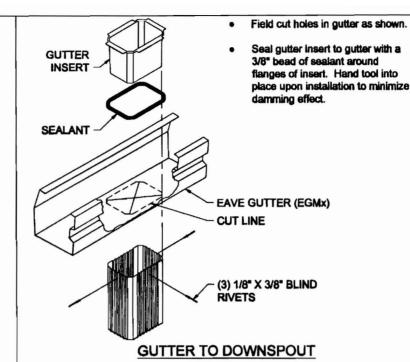
USE 1" LAP DIMENSION FOR ALL DOWNSPOUT AND ELBOW LAPS.

06-26-09

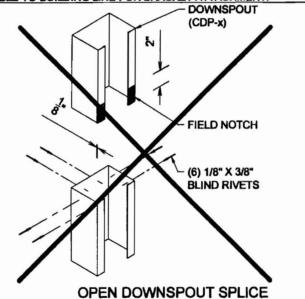
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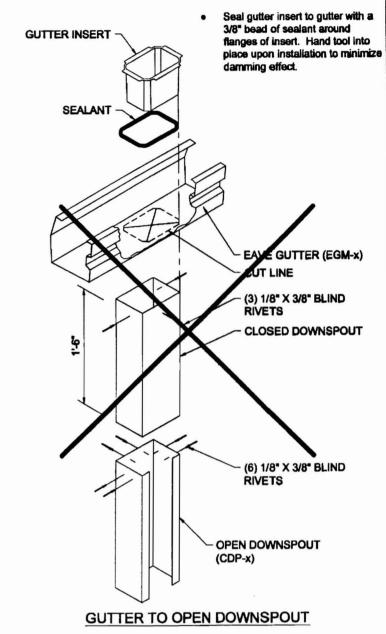
SUPERSEDES

DOWNSPOUT TO ELBOW



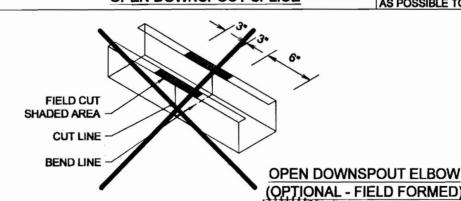
FIELD CUT HOLES IN GUTTER AS SHOWN. ATTACH DOWNSPOUT TO GUTTER INSERT WITH (3) 1/8" X 3/8" BLIND RIVETS. LOCATE CUT AS CLOSE AS POSSIBLE TO BUILDING LINE FOR BRACKET ATTACHMENT.



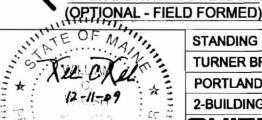


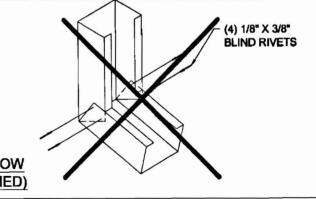
Field cut holes in gutter as shown.

FIELD CUT HOLES IN GUTTER AS SHOWN. ATTACH DOWNSPOUT TO GUTTER INSERT WITH (3) 1/8" X 3/8" BLIND RIVETS. LOCATE CUT AS CLOSE AS POSSIBLE TO BUILDING LINE FOR BRACKET ATTACHMENT.



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STANDING SEAM ROOF WITH STANDARD GUTTER TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME PORTLAND ME

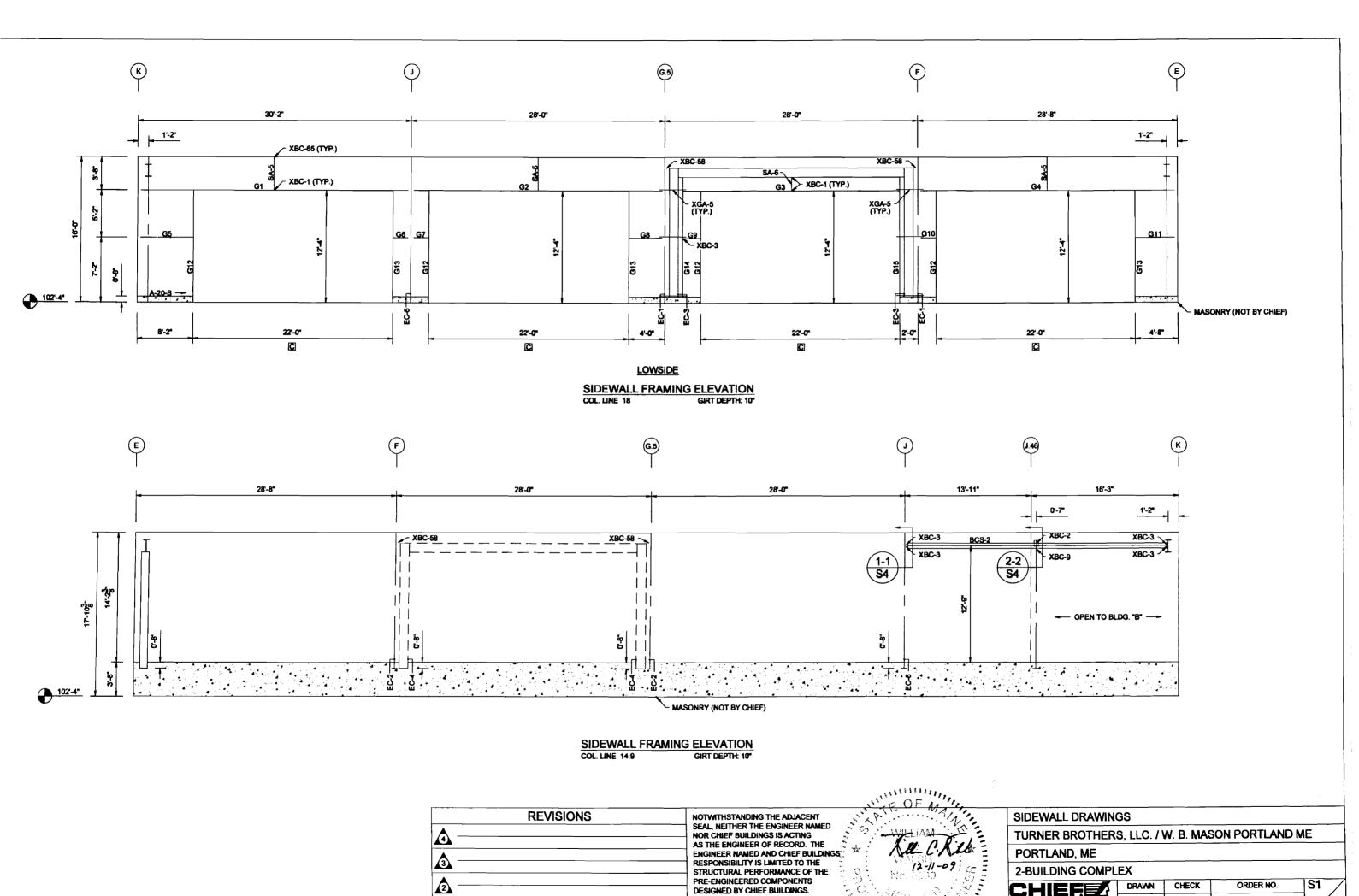
2-BUILDING COMPLEX

CHIEF

CHECK ORDER NO. DRAWN AL CO95226 1-DEC-09 9-DEC-09

RS5

REVISIONS Δ 3 DESIGNED BY CHIEF BUILDINGS. 04-14-09



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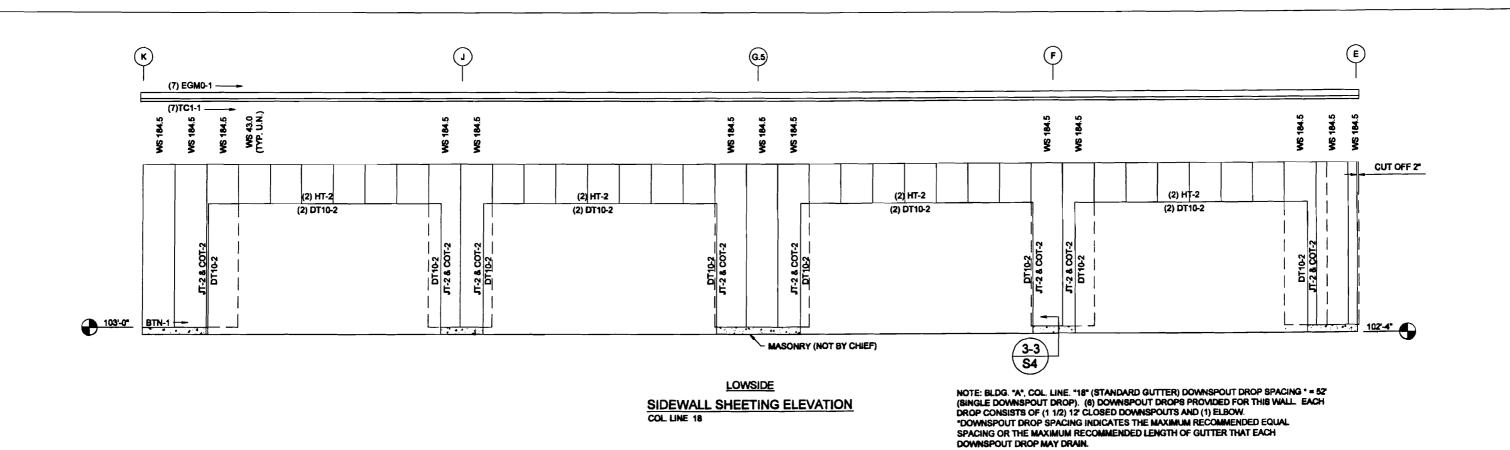
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BUILDINGS
PO SOX 2078 JSA CO95226 1-DEC-09 9-DEC-09

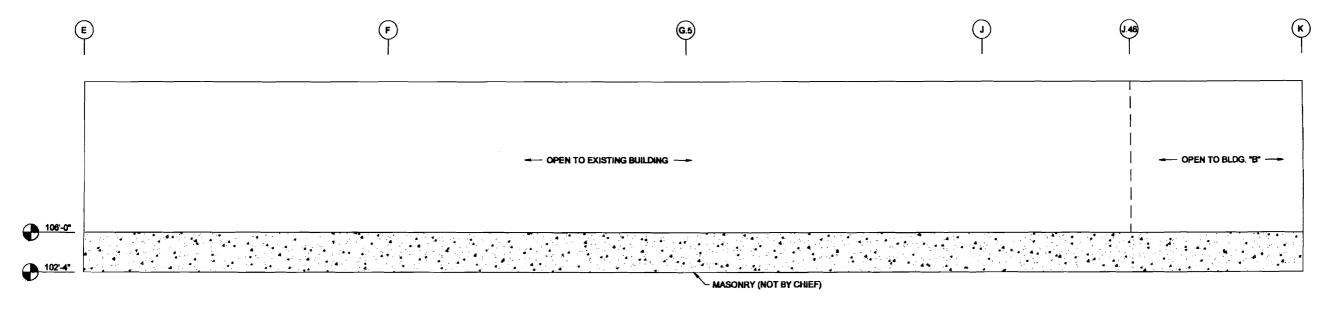
CHECK

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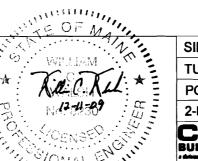
ORDER NO.





SIDEWALL SHEETING ELEVATION COL LINE 14.9

REVISIONS NOTWITHSTANDING THE ADJACENT SEAL, NEITHER THE ENGINEER NAMED NOR CHIEF BUILDINGS IS ACTING AS THE ENGINEER OF RECORD. THE ENGINEER NAMED AND CHIEF BUILDINGS
RESPONSIBILITY IS LIMITED TO THE
STRUCTURAL PERFORMANCE OF THE
PRE-ENGINEERED COMPONENTS 3 2 DESIGNED BY CHIEF BUILDINGS. 1

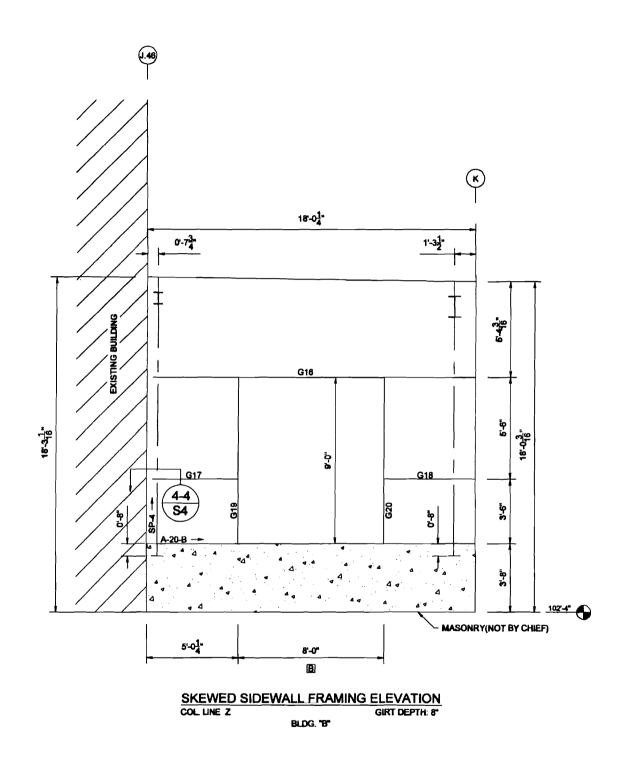


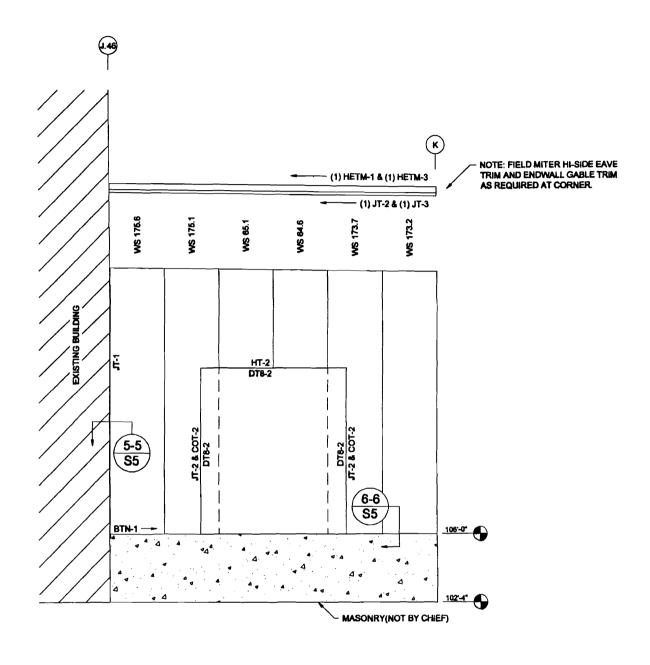
SIDEWALL DRAWINGS TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME 2-BUILDING COMPLEX

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OR OPENING TRIMS, REFER TO GENERAL DETAILS.





SKEWED SIDEWALL SHEETING ELEVATION COL LINE Z BLDG. "B"

REVISIONS

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PRE-ENGINEERED COMPONENTS
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SIDEWALL DRAWINGS
TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME
PORTLAND, ME

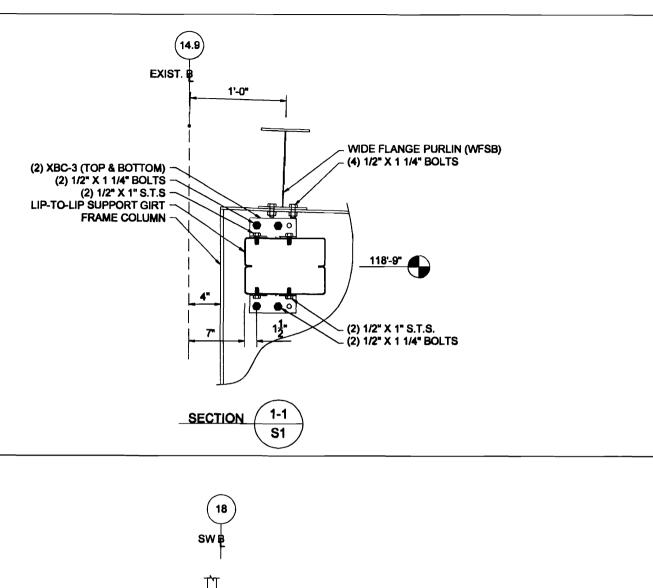
2-BUILDING COMPLEX

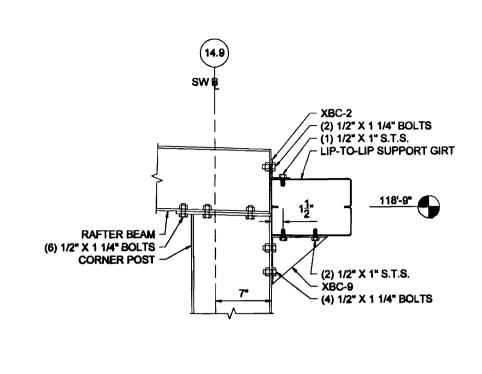
CHIEF DRAWN CHECK ORDER NO. S3

BUILDINGS
PO BOX 2079
GRAND 154 MO. NE
GRA

NCE NOTES

OPENING TRIMS, REFER TO GENERAL DETAILS.





EXIST. BLDG.

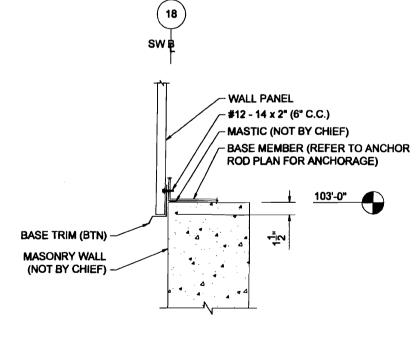
1"

(2) 1/2" X 1 1/4" BOLTS

SECTION 44
S3

WALL

SECTION



SECTION

REVISIONS

NOTWITHSTANDING THE ADJACENT
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DESIGNED BY CHIEF BUILDINGS.

SECTIONS & DETAILS

- SPECIAL CORNER ANGLE (SP-4)

-- #10 - 16 x 1" PANCAKE HEAD (2 EACH GIRT)

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

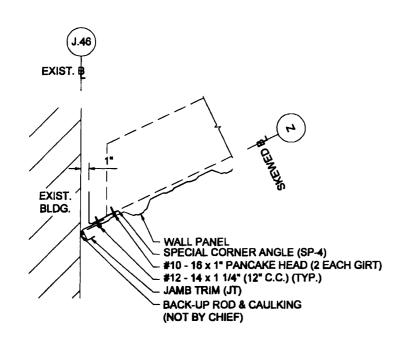
2-BUILDING COMPLEX

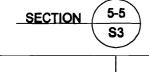
CHIEFE DRAWN CHECK ORDER NO. S4

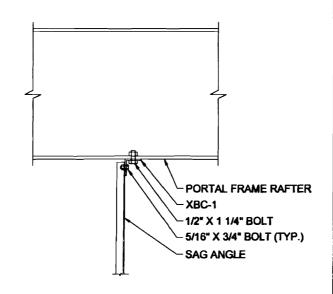
BUILDINGS

- Males of Died Industria, Inc. Pt. BOX 2078
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GRAVED ISLAND, NE. SHORD, 2078
GRAVED ISLAND, NE. SHORD, 2078

- DEC-09 8-DEC-09





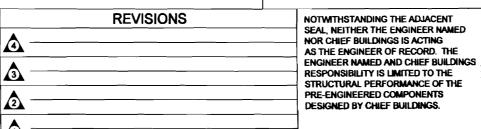


TYPICAL SAG ANGLE CONNECTION AT CEE GIRT

SAG ANGLE (TYP.)

5/16" X 3/4" BOLT -

SAG ANGLE
TO PORTAL FRAME RAFTER



BASE TRIM (BTN)

MASONRY WALL
(NOT BY CHIEF)

BASE MEMBER (REFER TO ANCHOR ROD PLAN FOR ANCHORAGE)

MASONRY WALL
(NOT BY CHIEF)

SECTION

6-6

S3

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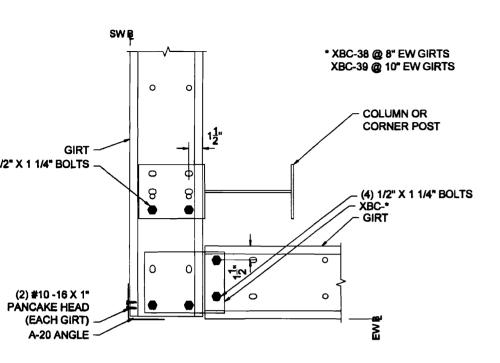
SECTIONS & DETAILS

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

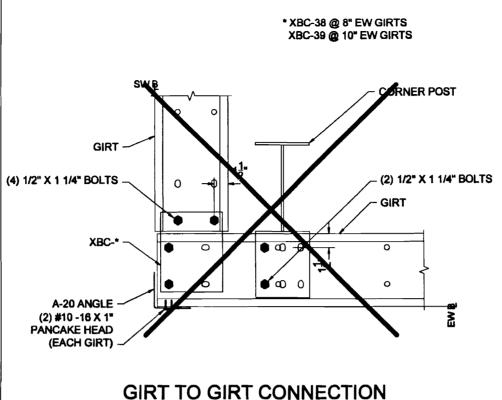
2-BUILDING COMPLEX

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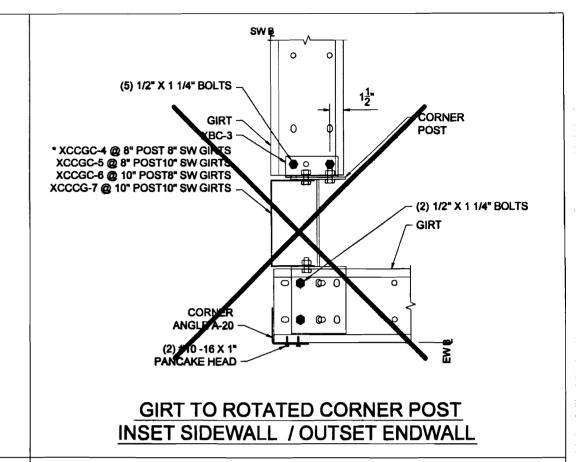


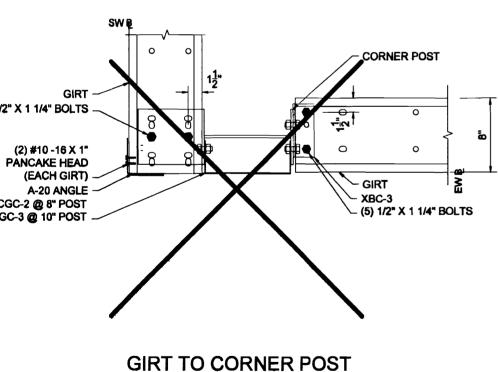
GIRT TO GIRT CONNECTION

OUTSET SIDEWALL / OUTSET ENDWALL



AT ROTATED CORNER POST

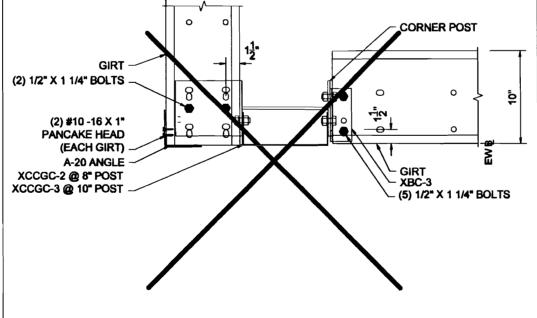




OUTSET SIDEWALL / INSET ENDWALL

RELEASED

SUPERSEDES



GIRT TO CORNER POST OUTSET SIDEWALL / INSET ENDWALL

TAILS ON THIS PAGE OVERRIDE DETAILS IN THE AL DETAILS MANUAL.

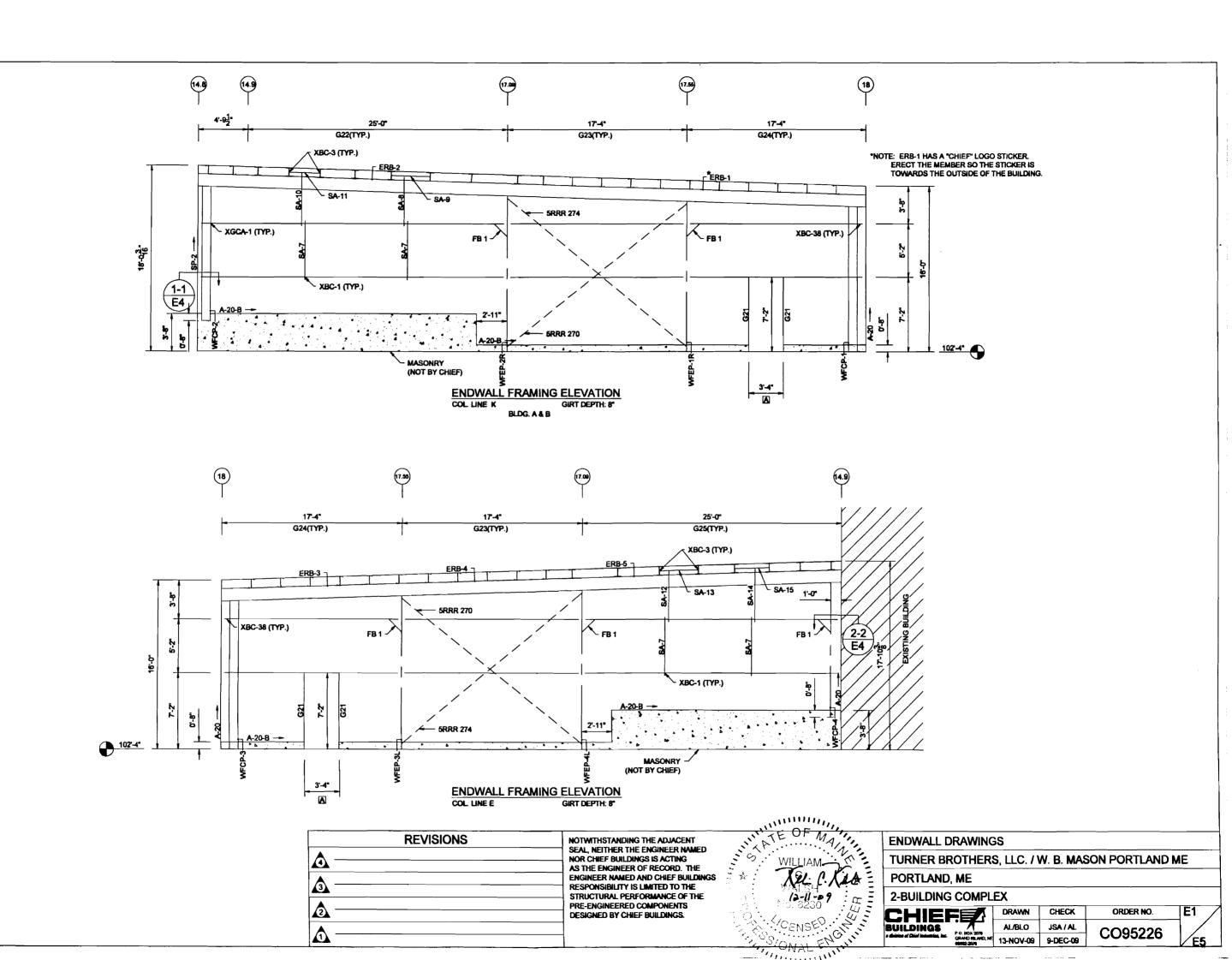
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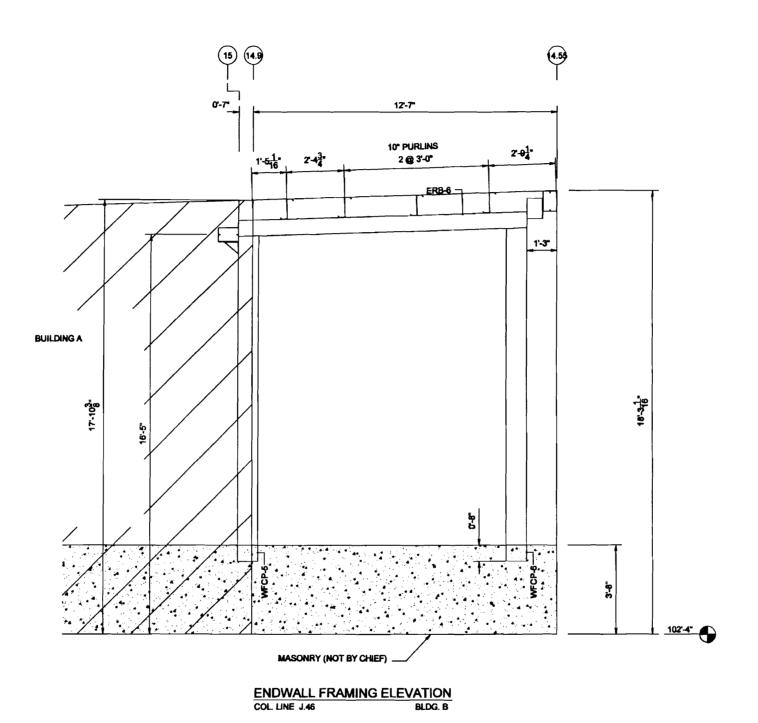
NOTWITHSTANDING THE ADJACENT SEAL, NEITHER THE ENGINEER NAMED NOR CHIEF BUILDINGS IS ACTING AS THE ENGINEER OF RECORD. THE ENGINEER NAMED AND CHIEF BUILDINGS RESPONSIBILITY IS LIMITED TO THE STRUCTURAL PERFORMANCE OF THE PRE-ENGINEERED COMPONENTS DESIGNED BY CHIEF BUILDINGS.

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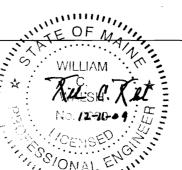
UPDATED DETAILS C GIRT CONNECTIONS	С	2
TURNER BROTHERS, LLC. / W.B. MASON PORTLAND ME		
PORTLAND ME		
2-BUILDING COMPLEX		

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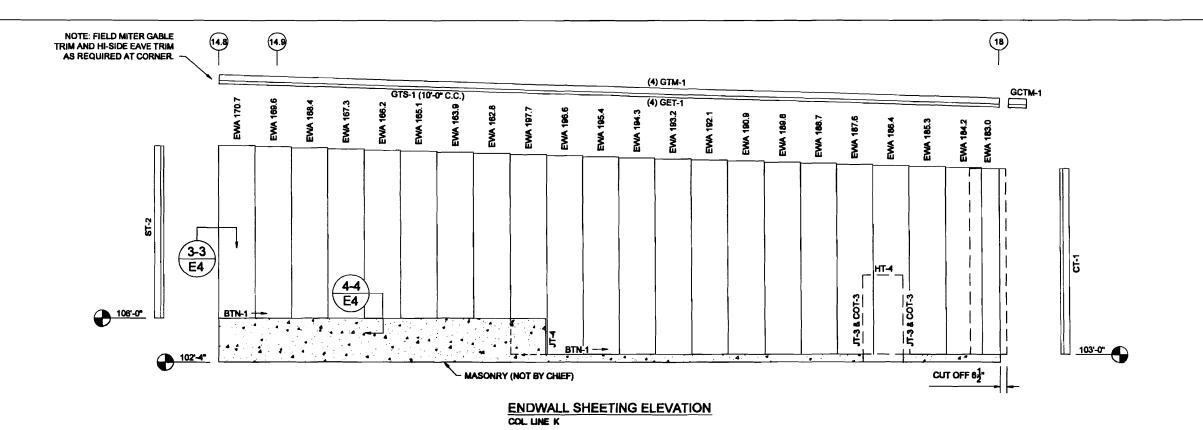
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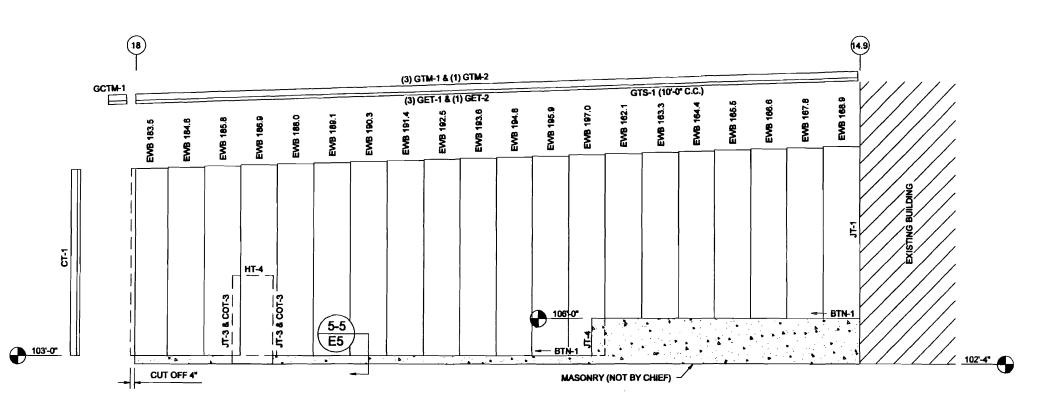


ENDWALL DRAWINGS
TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME
PORTLAND, ME

2-BUILDING COMPLEX

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of Chief Industries, Inc.	P O. BOX 2678 GRAND ISLAND, NE GRAND 3078	13-NOV-09	9-DEC-09	CO93220	E5





ENDWALL SHEETING ELEVATION COL. LINE E

REVISIONS

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ENDWALL DRAWINGS
TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

2-BUILDING COMPLEX

CHIEFE DRAWN CHECK ORDER NO. E3

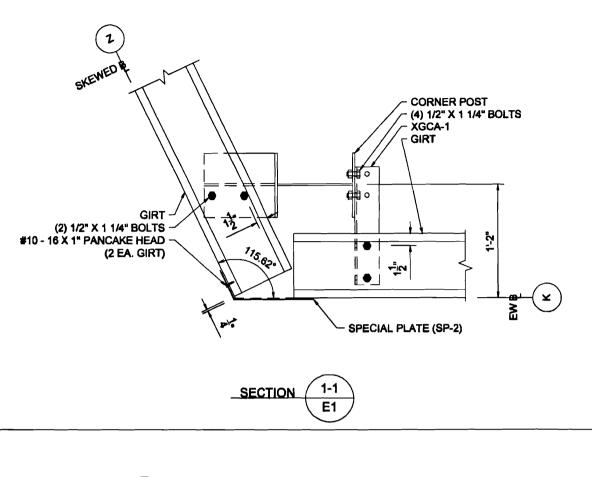
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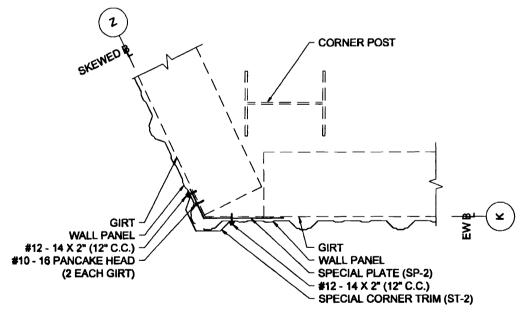
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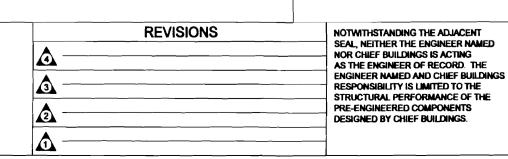


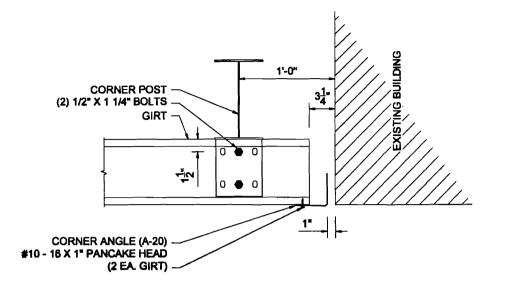


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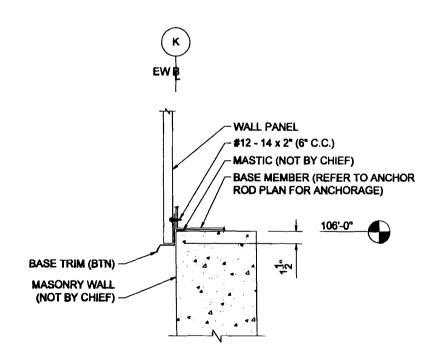
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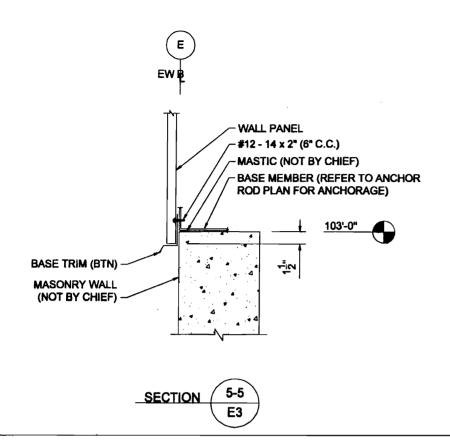
SECTIONS & DETAILS

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

2-BUILDING COMPLEX

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SECTIONS & DETAILS

TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME

PORTLAND, ME

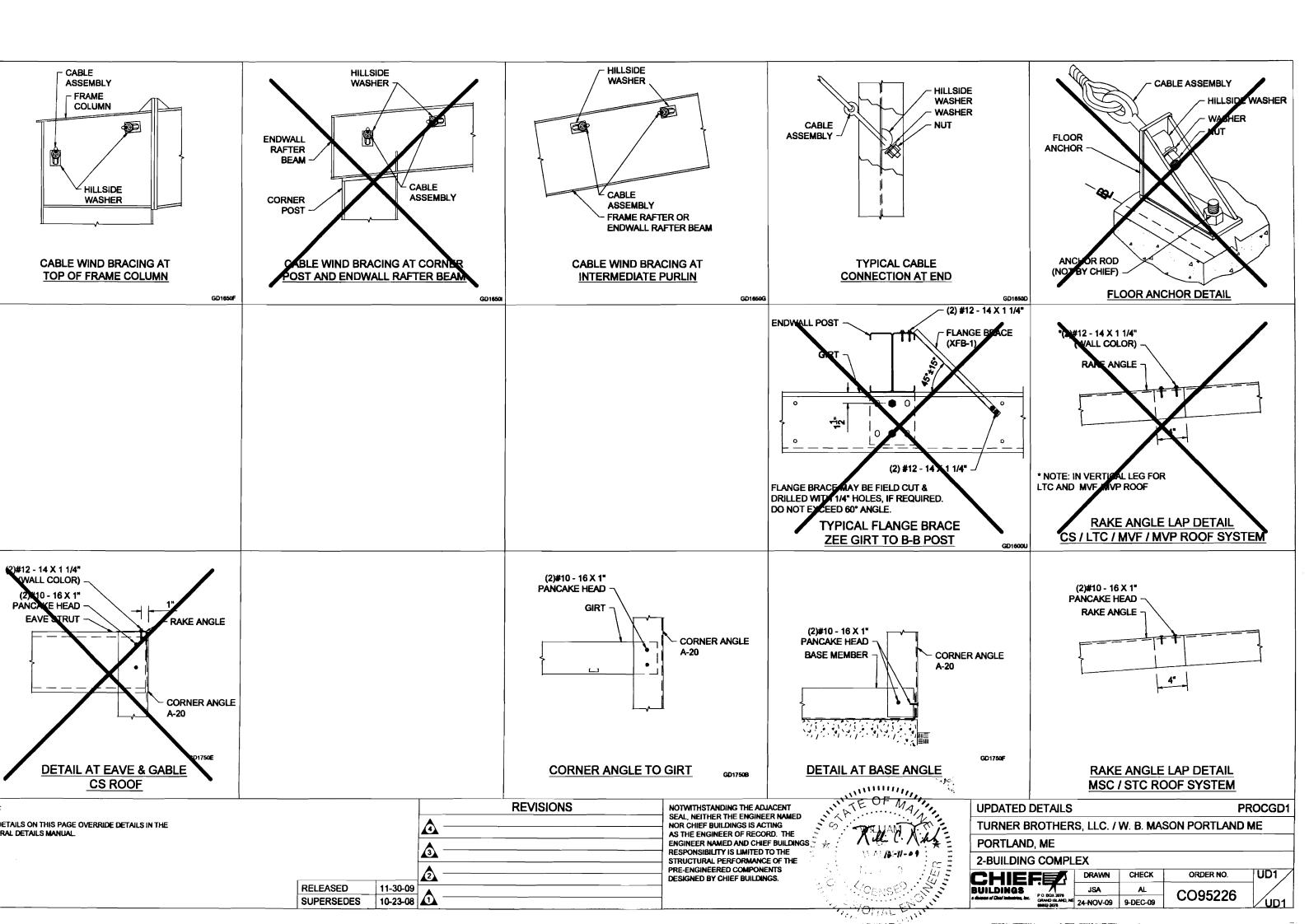
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CO95226



Quality Assurance Policy

e following Quality Assurance Policy is comprised of a list of guidelines and procedures to pedite customer service requirements in the field. Chief's objective is to produce a first-class oduct and back it up with the best customer service in the industry.

e Quality Assurance Policy has been developed over the last twenty-five years and is based handling customer service in the field. These guidelines will simplify the communication ocess and expedite any special requirements needed to make your project run as smooth

Common Industry Practices

e correction of minor misfits by the use of drift pins to draw the components into line imming, moderate amounts of reaming, chipping and cutting, and the replacement of nor shortages of material are a normal part of erection and are not subject to claim.

ief will not pay claims unless the following claim and authorization procedure is strictly mplied with by the Builder, or if the correction work is started prior to receipt by Builder of ief's written "Authorization of Corrective Work". If erection is not by the Builder, the Erector responsible for providing the Builder with the information necessary to make the claim to ief as provided below.

ief is not responsible for any claim resulting from the use of any drawings or literature not scifically released for the components purchased for the project

ief is not responsible for any claim resulting from the use by the Erector of any improper sterizi or material containing defects that can be detected by visual inspection. Claims for assembling such improper or defective material and costs of erecting replacement material not allowed.

fore you call Chief

we the following information ready when you call.

The name of Chief's Project Manager for your project. This information should be available from the office.

Chief's order number for your project. This information is available from the drawings Page numbers and detail callouts from the drawings.

Line numbers

Shortage and Damage Claims

lief personnel check off all components of orders prior to shipment. However, it is imperative at the Builder checks each shipment against the packing lists or Shipping Papers to ensure at the shipment is complete and no damage has occurre

ne of the smaller resale boxes contains a set of drawings, M.S.D.S. sheets and other portant documents that will aid you in erecting your project. Look for a box that says OCUMENTS ENCLOSED".

Checking the Shipping List

plicates of packing lists are part of the paper work that is shipped with each load of sleet. e full set of checked off Shipping Papers is on the final shipment. An advance copy of the lipping Papers is included in the document box.

nd the box or bundle that contains the packing list. Check the contents against this packing The larger pieces have a piece mark written on the part, check the piece mark against the ipping Papers.

Columns, rafters, posts, crane beams, etc. are marked with a grease pencil or paint

Tube flange brace marks are stamped into the end of the part. The Shipping Papers also reflect the tube size and length in inches.

Sag angles: The standard sag angle part XSA-61.25 is stamped into the part. The miscellaneous sag angles are marked with a colored marker after they are primed. If there is a pile of same sag angles, only the top angle is marked and the pile is color coded with spray paint on the ends. The Shipping Papers also reflect the angle size and length in inches.

Special plates are individually marked with a grease pencil prior to painting. The drawings that are sent with the steel shipment will also have part drawings included. These drawing packets are with the other documents included with the shipment.

Standard bolting clips are stamped on the individual parts. A drawing of these clips is also included in the "Component Identification" section of the "General Details (G.D.) Manual".

Wind bracing is marked with a tag that is attached to the piece. The mark number contains the size of the cable in eighths (ex. 4WB = ½* diameter cable) and length in inches. Rod bracing is marked with a tag that is stretch wrapped

Girts and purlins are marked with a grease pencil or printer prior to painting. A packing slip is also attached to each bundle that contains quantities and marks. The bundle weight is marked on the top of the bundle. The member size and length in inches are printed on the Shipping Papers.

Sheeting is identified with packing lists. These packing lists also include the number of pieces of each length and the weight. In the case of LTC sheeting, the marks are written on the paper on the end of the panel, and again on a crate support board toward the inside of the bundle. The length of the sheeting in inches is included in the piece mark. The sheeting prefix generally contains the use of the panel. RS = roof sheet, WS = sidewall sheeting, EW = endwall sheeting, LP = liner panel.

The boxes containing standard trims have packing lists attached that contain piece marks and quantities. The part dimensions are covered in the "Component Identification" section of the G.D. Manual. Special trim fabs are included with the erection drawings, M.S.D.S. sheets and other documents in the resale box.

Bolts, nuts, screws and other assorted smaller resale parts are packed in smaller boxes and then packaged into larger resale boxes. A packing list is attached to these larger boxes that describe the contents.

Missing or Demeded Parts

Any missing items are to be noted on the Bill of Lading and Chief is to be notified immediately. If any item is damaged, it should be noted on the freight bill.

Concealed shortages must be reported to Chief during the following period dating from receipt of the first load:

> one load job = 2 weeks four load job = 5 weeks two load job = 3 weeks five load job = 6 weeks three load job = 4 weeks six load job = 7 weeks seven or more load job = 8 weeks

Chief's responsibility for shortages expires at the end of these notification periods.

Replacement Shipment

Maximum effort will be made by Chief to ship replacement components as quickly as possible. Chief will attempt to ship standard components fabricated in its building plants within 48 hours and stock items will be ready to ship in 24 hours.

When a shortage is determined, the Builder needs to notify Chief's Project Manager of the Quality Assurance issue. Chief's Order Number and complete information describing the parts

Chief will act Immediately to get the parts to the Builder and responsibility for the problem will

After the problem has been corrected, Chief will determine where the responsibility lies. If it is Chief's error, Chief will provide the replacement material. Otherwise, Chief will invoice accordingly.

Nominal damage can occur during transit. Chief supplies touch-up paint for such cases. However, if excessive damage occurs, the following procedure will be observed: Material damage (transit or otherwise) should be noted on the carrier's Bill Of Lading. If the damage is not noted on the Bill of Lading, Chief may charge the Builder for the replacement material. Customer pickup - Driver must inspect the load for any damaged material before leaving the plant and notify Chief accordingly.

All penels shipped from Chief's building plants are in good condition

Chief bundles and/or boxes components only for protection during transit. This packaging is not intended for protection during storage.

Panels must be stored so air can circulate freely. Trapped moisture may cause discoloration or white rust. Refer to the G.D. Manual for proper bundling storage. This manual is supplied with each order. (again in the resale box)

Chief's shop primer is a rust inhibiting grey modified acrylic primer. This paint is intended to protect the steel only for short periods of exposure to ordinary atmospheric concluons. In addition, shop primer does not provide the uniformity of appearance, or the dusability of a field applied finish cost of paint over a shop primer.

The Builder must ensure that the grey primed material is stored in such a masser that water snow, ice and other debris are not allowed to pond in the members. If primed material is to be top coated with other paint, compatibility tests must be performed by the Builder to ensure acceptable results. These compatibility tests should cover a cross-section of members (clips, angles, purlins, girts, columns, rafters, beams, flange braces, etc.) as different primers may be used on different members.

2. Authorization for Returning Merchandise

The authorization must be obtained from Chief's Project Manager before merchandise may be returned for credit. Returned merchandise shall be limited to resale type items (i.e. fasteners, closures, etc.) at Chief's sole discretion. Chief retains the prerogative to allow or disallow the

Builder must contact Chief's Project Manager with a description of the merchandise and the

When authorization has been granted, an authorization form will be sent to the Builder along with a pre-numbered tag to attach to the merchandise being returned.

A 15% re-stock charge may be assessed on all merchandise which is authorized to be returned

Special merchandise ordered, such as special doors, windows, vents, fasteners, etc., may not be returned for credit

All merchandise shipped will be invoiced to the Builder. This includes parts sent to replace

Credit will be issued to the Builder's account when the returned merchandise has been accepted by Chief. Chief may refuse to credit your account if the returned merchandise is not

3. Field Modifications

Notification of Field Problems

The initial claim must be made promptly by either written or verbal notification to Chief's Project Manager. Any verbal notification must be followed up in writing within 7 days. The initial claim

- 1. Description of nature and the extent of the errors, including quantities
- 2. Description of nature and the extent of proposed corrective work, including estimated man-hours and costs.
- 3. Material to be purchased from other than Chief, including estimated quantities and
- 4. Maximum total cost of proposed corrective work and material to be purchased from other than Chief.

If necessary, Chief may request pictures, field measurements, or other information that will aid in helping to solve the problem.

Authorization MUST be obtained from Chief's Technical Service Department in writing before field modification is made. Authorization identifies the problem and allows Chief to participate in arriving at a solution, it does not assign fault or liability.

Chief cannot be responsible for structures which have been modified without specific authorization. Any such action may void warranties.

The order number must be shown on all backcharges submitted to Chief.

Backcharge Procedure

All backcharges must be submitted within 14 (fourteen) days after completion of the corrective work for which prior approved authorization has been given. Failure to submit the backcharge within this time limit will negate Chief's obligation to pay said charges.

Information Required for Submitting the Final Claim

- 1. Chief's Order Number.
- 2. Actual man-hours by date of direct labor use on corrective work and hourly rates of pay.
- 3. Cost of material (not minor supplies) authorized by Chief to be purchased from other than Chief, including copies of paid invoice
- 4. Total actual direct cost of corrective work (sum of 2 and 3).

The final claim shall be signed and certified true and correct by the Builder. Final claims are paid to the Builder in an amount of the lesser of

- a) cost set forth in the initial report and subsequent "Authorization for Field Modification".
- b) the total actual direct cost of corrective work.
- 5. The cost of equipment (rental or depreciation), small tools, supervision, overhead and profit are not subject to claim. This includes crane and lift charges.

QUALITY ASSURANCE POLICY TURNER BROTHERS, LLC. / W. B. MASON PORTLAND ME PORTLAND, ME 2-BUILDING COMPLEX

Q1 DRAWN CHECK ORDER NO. CHIEFE 01-15-07 BUILDINGS PO BOX 2074 OCHOO ISLAND, NE 24-NOV-09 9-DEC-09 RELEASED CO95226 SUPERSEDES