

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read
Application And
Notes, If Any,
Attached

BUILDING INSPECTION

PERMIT

PERMIT ISSUED
Permit Number: 060976
AUG - 8 2006
CITY OF PORTLAND

This is to certify that DRAGON PRODUCTS COMPANY INC / Kealey Construct

has permission to Concrete Batch Plant- Roof Replacement

AT 934 OCEAN AVE

415 A004001

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

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and when permission is procured before this building or part thereof is leased or closed-in. 24 HOUR NOTICE IS REQUIRED.

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

OTHER REQUIRED APPROVALS

Fire Dept. _____

Health Dept. _____

Appeal Board _____

Other _____

Department Name

[Signature]
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD



General Building Permit Application

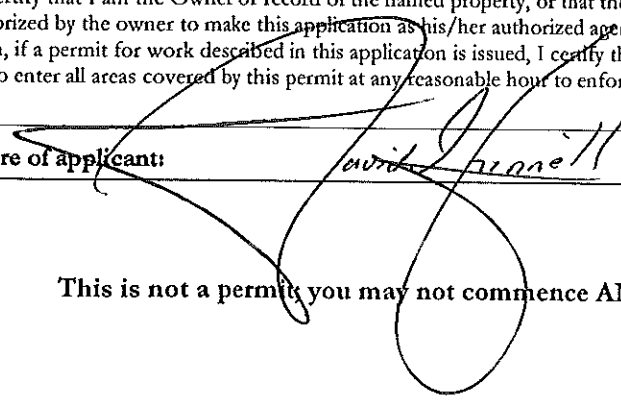
If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

| | | |
|---|--|--|
| Location/Address of Construction: 934 Ocean Ave | | |
| Total Square Footage of Proposed Structure 750± sq. ft. Roof Replacement | | Square Footage of Lot N/A |
| Tax Assessor's Chart, Block & Lot Chart# Block# Lot# 415 A004001 | Owner: Dragon Products Company 38 Preble Street Portland, Maine | Telephone: 774-6355 |
| Lessee/Buyer's Name (If Applicable) N/A | Applicant name, address & telephone: Dragon Products Company PO Box 1521 38 Preble Street Portland, ME 04104 (207) 774-6355 | Cost Of Work: \$76,508.00 Fee: \$714.00 C of O Fee: \$ |
| Current Specific use: <u>Ready-Mixed Concrete Batch Plant</u> If vacant, what was the previous use? <u>N/A</u> Proposed Specific use: <u>Ready-Mixed Concrete Batch Plant</u> | | |
| Project description: Total replacement of structural roof of ready-mixed concrete batch plant building that partially collapsed in November 2005, as per attached Kleinschmidt Engineers drawings dated 05/01/2006. | | |
| Contractor's name, address & telephone: Keeley Construction Company o/s Jim Keeley PO Box 1074, Portland, ME 774-8499 | | |
| Who should we contact when the permit is ready: <u>David Grinnell, Dragon Products</u> Mailing address: Phone: <u>774-6355</u> Dragon Products Company PO Box 1521 Portland, ME 04104 | | |

Please submit all of the information outlined in the Commercial Application Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information visit us on-line at www.portlandmaine.gov, stop by the Building Inspections office, room 315 City Hall or call 874-8703.

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

| | |
|---|-----------------|
| Signature of applicant:  | Date: 6-29-2006 |
|---|-----------------|

This is not a permit, you may not commence ANY work until the permit is issued.

City of Portland, Maine - Building or Use Permit

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

| | | |
|-----------------------|---------------------------------|---------------------|
| Permit No: 06-0976 | Date Applied For: 06/30/2006 | CBL: 415 A004001 |
|-----------------------|---------------------------------|---------------------|

| | | | |
|--|---|---|-------------------------|
| Location of Construction: 934 OCEAN AVE | Owner Name: DRAGON PRODUCTS COMPAN | Owner Address: 38 PREBLE ST | Phone: |
| Business Name: | Contractor Name: Keeley Construction | Contractor Address: P.O. Box 1174 Portland | Phone (207) 773-8499 |
| Lessee/Buyer's Name | Phone: | Permit Type: Alterations - Commercial | |

| | |
|--|--|
| Proposed Use: Commercial/ Concrete Batch Plant- Roof replacement after collapse | Proposed Project Description: Concrete Batch Plant- Roof replacement after collapse |
|--|--|

| | | | |
|---|--|--------------------------|---------------------------|
| Dept: Building | Status: Approved with Conditions | Reviewer: Mike Nugent | Approval Date: 08/07/2006 |
| Note: | Ok to Issue: <input checked="" type="checkbox"/> | | |
| 1) "Cat walks" must be protected with 42" guards w/ openings less than 21 inches. | | | |
| Dept: Fire | Status: Not Applicable | Reviewer: Cptn Greg Cass | Approval Date: |
| Note: | Ok to Issue: <input type="checkbox"/> | | |

Comments:
 7/3/2006-mjn: plans not stamped need Special Inspections statement, 7/7/06 got stamped plans need statement of special inspections, spoke with applicant and left message w/ project engineer.
 7/21/2006-gg: received additional plans (Statement of Special Inspections). /gg



Corporate Offices

38 Preble St. • P.O. Box 1521
Portland, Maine 04104
207-774-6355 • Fax 207-761-5694

June 30, 2006

Mr. Michael Nugent
Inspection Division Director
City of Portland
389 Congress Street
Portland, Maine 04101

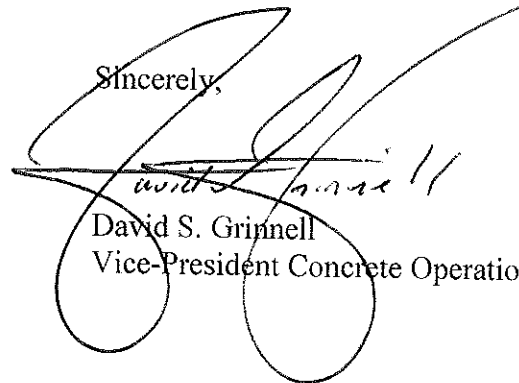
RE: Roof Repair Building Permit Application
Dragon Products Company
934 Ocean Avenue

Dear Mr. Nugent:

As we have completed the clean-up of the debris from the November 2005 roof collapse at our Ocean Avenue concrete batch plant, enclosed please find our City of Portland building permit application for replacement of this roof. Also enclosed please find City of Portland Building Code Certificates, 11" x 17" roof replacement construction plans and check for building permit fee of \$714.00.

If you have any questions, or require further information, please don't hesitate giving me a call at 774-6355.

Sincerely,



David S. Grinnell
Vice-President Concrete Operations

DRAGON[®]
PRODUCTS COMPANY



CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

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

FROM: Stephen T. Ruell PE

RE: Certificate of Design

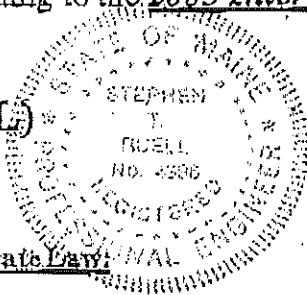
DATE: 6-29-06

These plans and/ or specifications covering construction work on:

Replacement of existing wood framed low roof on
batch plant with new wood framing and steel supports

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

(SEAL)



Signature: [Handwritten Signature]

Title: Principal Associate and Project Manager

Firm: Kleinschmidt Associates

As per Maine State Law:

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

Address: 75 Main St
Pittsfield ME 04967

FROM DESIGNER: Stephen T. Ruell, P.E., Kleinschmidt Associates
 DATE: 6-29-06
 Job Name: Dragon Products Co. Portland Batch Plant Roof
 Address of Construction: 960 Ocean Avenue

2003 International Building Code

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

Building Code and Year 2003 IBC Use Group Classification(s) F-1 and F-2
 Type of Construction IV
 Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IBC No
 Is the Structure mixed use? Yes if yes, separated or non separated (see Section 302.3) Separated
 Supervisory alarm system? _____ Geotechnical/Soils report required? (See Section 1802.2) No

STRUCTURAL DESIGN CALCULATIONS

Available On request

Submitted for all structural members
(1003.1, 1003.1.1)

DESIGN LOADS ON CONSTRUCTION DOCUMENTS
(1803)

Uniformly distributed floor live loads (7603.11, 1807)

| Floor Area Use | Loads Shown |
|----------------|---------------|
| <u>Catwalk</u> | <u>50 PSF</u> |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Roof snow loads (7603.7.3, 1808)

00 PSF

40.2 PSF

0.8

1.0

1.1

70 PSF

NA

Live load reduction
(1803.1.1, 1807.9, 1807.10)

Roof live loads (1803.1.2, 1807.11)

Ground snow loads (7603.7.3, 1808)

Ground snow load, P_g (1803.2)

If $P_g > 10$ psf, flat-roof snow load, P_f
(1803.3)

If $P_g > 10$ psf, snow exposure factor, C_e
(Table 1803.3.1)

If $P_g > 10$ psf, snow load importance factor, I_s (Table 1803.3)

Roof thermal factor, C_t (Table 1803.3.2)

Sloped roof snowload, P_s (1803.4)

Seismic design category (1813.8)

Basic seismic-force-resisting system
(Table 1813.8.2)

Response modification coefficient, R ,
and deflection amplification factor, C_d
(Table 1813.8.3)

Analysis procedure (1813.8, 1817.5)

Design base shear (1817A, 1817.5.1)

Wind loads (1803.1.4, 1809)

Design option utilized (1803.1.7, 1803.5)

Basic wind speed (1809.3)

Building category and wind importance factor, I_w (Table 1804.5, 1809.5)

Wind exposure category (1803.4)

Internal pressure coefficient (ASCE 7)

30 PSF

Component and cladding pressures
(1803.1.1, 1809.5.2.2)

Main force wind pressures (7603.1.1, 1803.5.2.1)

Flood loads (1803.1.6, 1812)

NA

Flood hazard area (1812.3)

Elevation of structure

Other loads

Concentrated loads (1807.4)

Partition loads (1807.5)

Impact loads (1807.8)

Misc. loads (Table 1807.8, 1807.8.1, 1807.7, 1807.12, 1807.13, 1810, 1811, 2404)

Earthquake design data (1803.1.5, 1814-1823)

Design option utilized (1814.1)

Seismic use group ("Category")
(Table 1804.5, 1816.2)

Spectral response coefficients, S_{ps} & S_{d1} (1815.1)

Site class (1816.1.5)



CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

ACCESSIBILITY CERTIFICATE

Designer: _____
Address of Project: DRAGON PRODUCTS COMPANY
Nature of Project: N/A

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

Signature: _____

Title: _____

Firm: _____

Address: _____

Phone: _____

(SEAL)

NOTE: If this project is a new Multi Family Structure of 4 units or more, this project must also be designed in compliance with the Federal Fair Housing Act. On a separate submission, please explain in narrative form the method of compliance.



Corporate Offices

38 Preble St. • P.O. Box 1521
Portland, Maine 04104
207-774-6355 • Fax 207-761-5694

July 21, 2006

Mr. Michael J. Nugent
Inspection Division Director
City of Portland
389 Congress Street
Portland, Maine 04101

RE: Roof Repair Building Permit Application
Dragon Products Company
934 Ocean Avenue

Dear Mr. Nugent:

As per our telephone conversation and your subsequent telephone conversation with our design engineer, Stephen T. Ruell, enclosed please find the requested "Statement of Special Inspections" regarding our Ocean Avenue repairs.

If you have any questions or I can be of assistance, please feel free to call.

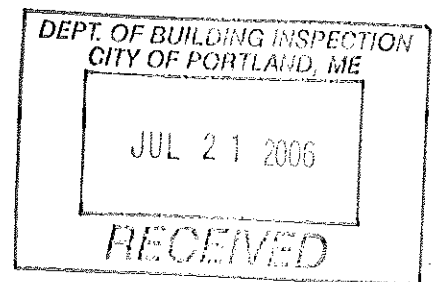
Sincerely,

David S. Grimmell
Vice President Concrete Operations

#060976
415 A004

934
Ocean

DRAGON[®]
PRODUCTS COMPANY



Statement of Special Inspections

Project: *PORTLAND BATCH PLANT ROOF REPAIRS*

Location: *960 OCEAN AVE*

Owner: *DRAGON PRODUCTS COMPANY*

Design Professional in Responsible Charge: *Stephen T. Ruell P.E.*

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 Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This *Statement of Special Inspections* encompass the following disciplines:

- Structural Mechanical/Electrical/Plumbing
 Architectural Other: _____

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. 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 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 Registered Design Professional in Responsible Charge.

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 prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

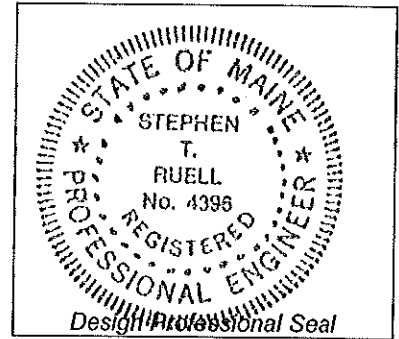
Interim Report Frequency: *At 50% and 100% completion* or per attached schedule.

Prepared by:

of structural framing, prior to roofing installation

Stephen T. Ruell, P.E.

(type or print name)



Signature

Date

7-19-06

Owner's Authorization:

Building Official's Acceptance:

Signature

Date

Signature

Date

David Ruell *7-21-2006*
for Dragon Products Co.

Schedule of Inspection and Testing Agencies

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems:

- | | |
|--|--|
| <input type="checkbox"/> Soils and Foundations | <input type="checkbox"/> Spray Fire Resistant Material |
| <input type="checkbox"/> Cast-in-Place Concrete | <input checked="" type="checkbox"/> Wood Construction |
| <input type="checkbox"/> Precast Concrete | <input type="checkbox"/> Exterior Insulation and Finish System |
| <input type="checkbox"/> Masonry | <input type="checkbox"/> Mechanical & Electrical Systems |
| <input checked="" type="checkbox"/> Structural Steel | <input type="checkbox"/> Architectural Systems |
| <input type="checkbox"/> Cold-Formed Steel Framing | <input type="checkbox"/> Special Cases |

| Special Inspection Agencies | Firm | Address, Telephone, e-mail |
|--|--------------------------------|---|
| 1. Special Inspection Coordinator <i>Stephen Ruell/SE</i> | <i>Kleinschmidt Associates</i> | <i>75 Main St Pittsfield ME 207 487 3328 steve.ruell@kleinschmidt-usa.com</i> |
| 2. Inspector | | |
| 3. Inspector | | |
| 4. Testing Agency | | |
| 5. Testing Agency | | |
| 6. Other | | |

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent, and not 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.

Quality Assurance Plan

Quality Assurance for Seismic Resistance

Seismic Design Category *D (Not determined)*

Quality Assurance Plan Required (Y/N) *Yes*

Description of seismic force resisting system and designated seismic systems:

*Masonry shear walls with wood roof diaphragm
Masonry walls are existing and are not altered.
New wood roof deck diaphragm.*

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust) *100 mph*

Wind Exposure Category *B*

Quality Assurance Plan Required (Y/N) *NO*

Description of wind force resisting system and designated wind resisting components:

Masonry shear walls and wood roof diaphragm

Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility.

| Item | Agency # (Qualif.) | Scope |
|--|-----------------------|--|
| 1. Fabricator Certification/ Quality Control Procedures <input type="checkbox"/> Fabricator Exempt | NA | <i>Inspect shop fabrication and quality control procedures for wood truss plant.</i> |
| 2. Material Grading | #1. | |
| 3. Connections | #1. | |
| 4. Framing and Details | #1. | |
| 5. Diaphragms and Shearwalls | #1 | <i>Inspect size, configuration, blocking and fastening of shearwalls and diaphragms. Verify panel grade and thickness.</i> |
| 6. Prefabricated Wood Trusses | NA | <i>Inspect the fabrication of wood trusses.</i> |
| 7. Permanent Truss Bracing | NA | |
| 8. Other: | | |

| Item | Agency # (Qualif.) | Scope |
|--|------------------------------------|---|
| 1. Fabricator Certification/ Quality Control Procedures <input type="checkbox"/> Fabricator Exempt | AWS/AISC- SSI ICC-SWSI | Review shop fabrication and quality control procedures. |
| 2. Material Certification | #1 AWS/AISC- SSI ICC-SWSI | Review certified mill test reports and identification markings on wide-flange shapes, high-strength bolts, nuts and welding electrodes |
| 3. Open Web Steel Joists | NA | Inspect installation, field welding and bridging of joists. |
| 4. Bolting | #1 AWS/AISC- SSI ICC-SWSI | Inspect installation and tightening of high-strength bolts. Verify that splines have separated from tension control bolts. Verify proper tightening sequence. Continuous inspection of bolts in slip-critical connections. |
| 5. Welding | #1 AWS-CWI ASNT | Visually inspect all welds. Inspect pre-heat, post-heat and surface preparation between passes. Verify size and length of fillet welds. Ultrasonic testing of all full-penetration welds. |
| 6. Shear Connectors | NA AWS/AISC- SSI ICC-SWSI | Inspect size, number, positioning and welding of shear connectors. Inspect studs for full 360 degree flash. Ring test all shear connectors with a 3 lb hammer. Bend test all questionable studs to 15 degrees. |
| 7. Structural Details | #1 PE/SE | Inspect steel frame for compliance with structural drawings, including bracing, member configuration and connection details. |
| 8. Metal Deck | NA AWS-CWI | Inspect welding and side-lap fastening of metal roof and floor deck. |
| 9. Other: | | |

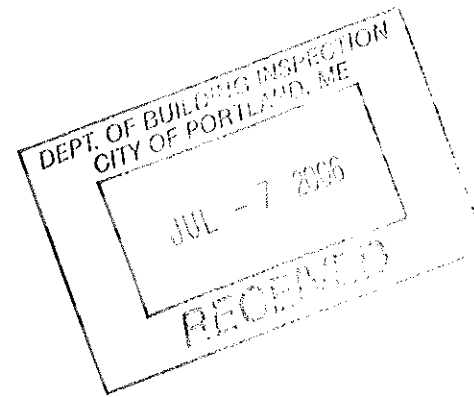


Corporate Offices

38 Preble St. * P.O. Box 1521
Portland, Maine 04104
207-774-6355 * Fax 207-761-5694

July 7, 2006

Mr. Michael Nugent
Inspection Division Director
City of Portland
389 Congress Street
Portland, Maine 04101



RE: Roof Repair Building Permit Application
Dragon Products Company
934 Ocean Avenue

Dear Mr. Nugent:

As per your request, enclosed please find 11" x 17" roof replacement construction plans with registered professional engineers stamp. My apology for the oversight in the original submittal to you of June 30, 2006.

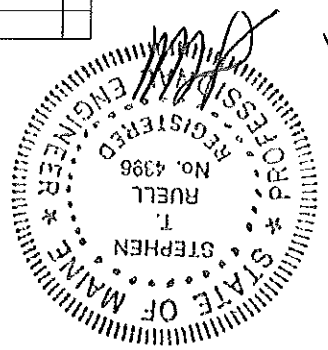
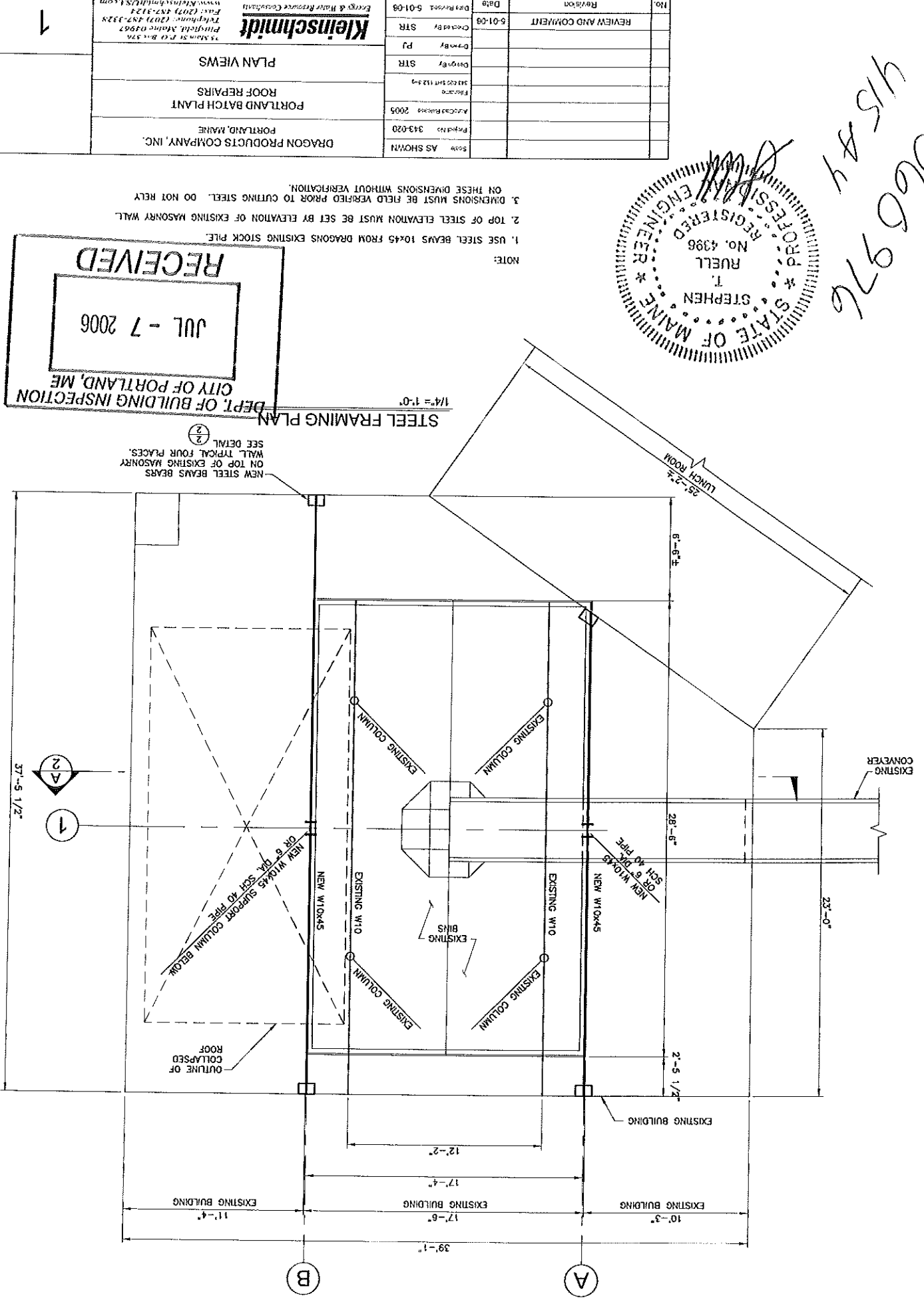
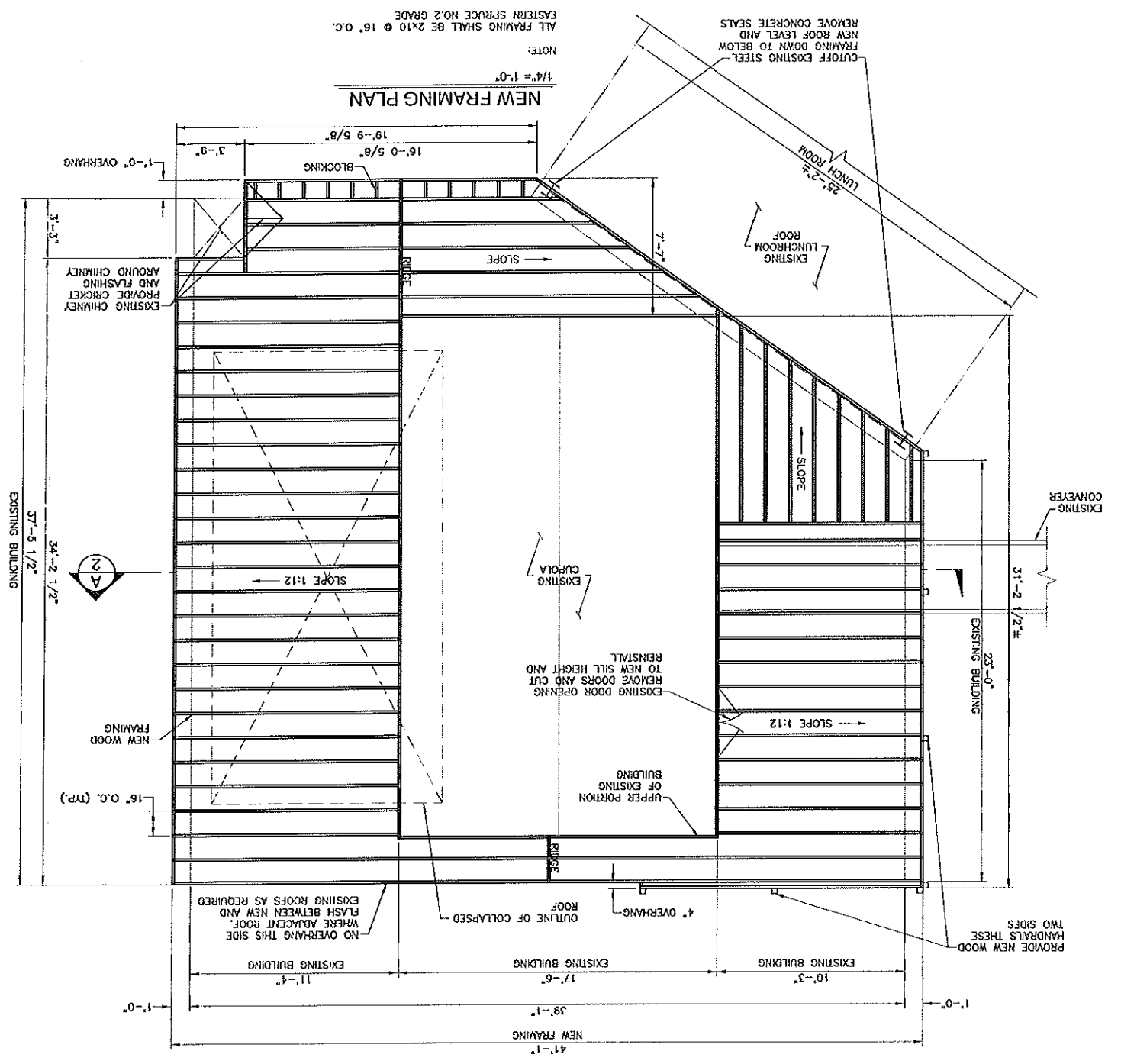
If you have any questions or I can be of assistance, please feel free to call.

Sincerely,

David S. Grinnell
Vice-President Concrete Operations

060976
415A4

DRAGON[®]
PRODUCTS COMPANY



41584
066976

- NOTE:
1. USE STEEL BEAMS 10x45 FROM DRAGONS EXISTING STOCK PILE.
 2. TOP OF STEEL ELEVATION MUST BE SET BY ELEVATION OF EXISTING MASONRY WALL.
 3. DIMENSIONS MUST BE FIELD VERIFIED PRIOR TO CUTTING STEEL. DO NOT RELY ON THESE DIMENSIONS WITHOUT VERIFICATION.

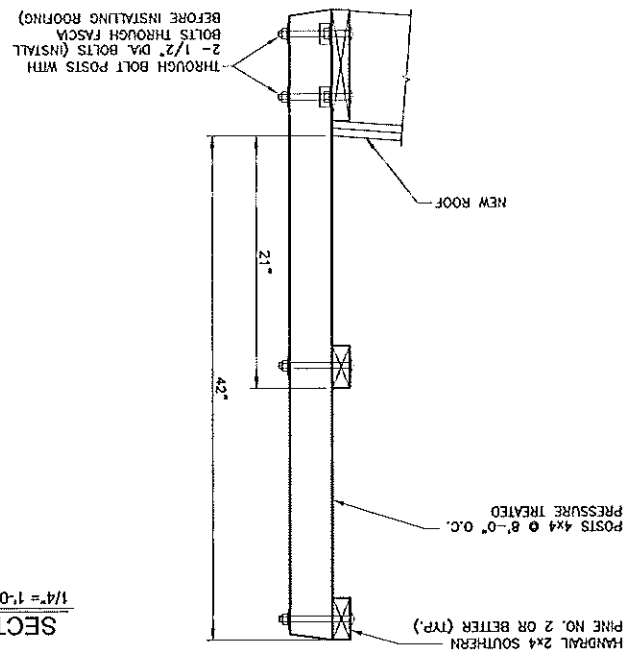
DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
JUL - 7 2006
RECEIVED

| No. | Revision | Date | By | Check By |
|-----|--------------------|---------|-------------|----------|
| 1 | REVIEW AND COMMENT | 5-01-08 | STR | STR |
| | | | Drawn By | PI |
| | | | Design By | STR |
| | | | Scale | AS SHOWN |
| | | | Project No. | 343-020 |
| | | | Architect | 2005 |
| | | | Address | 112 1/2 |

Dragon Products Company, Inc.
Portland, Maine
Portland Batch Plant
Roof Repairs
Plan Views

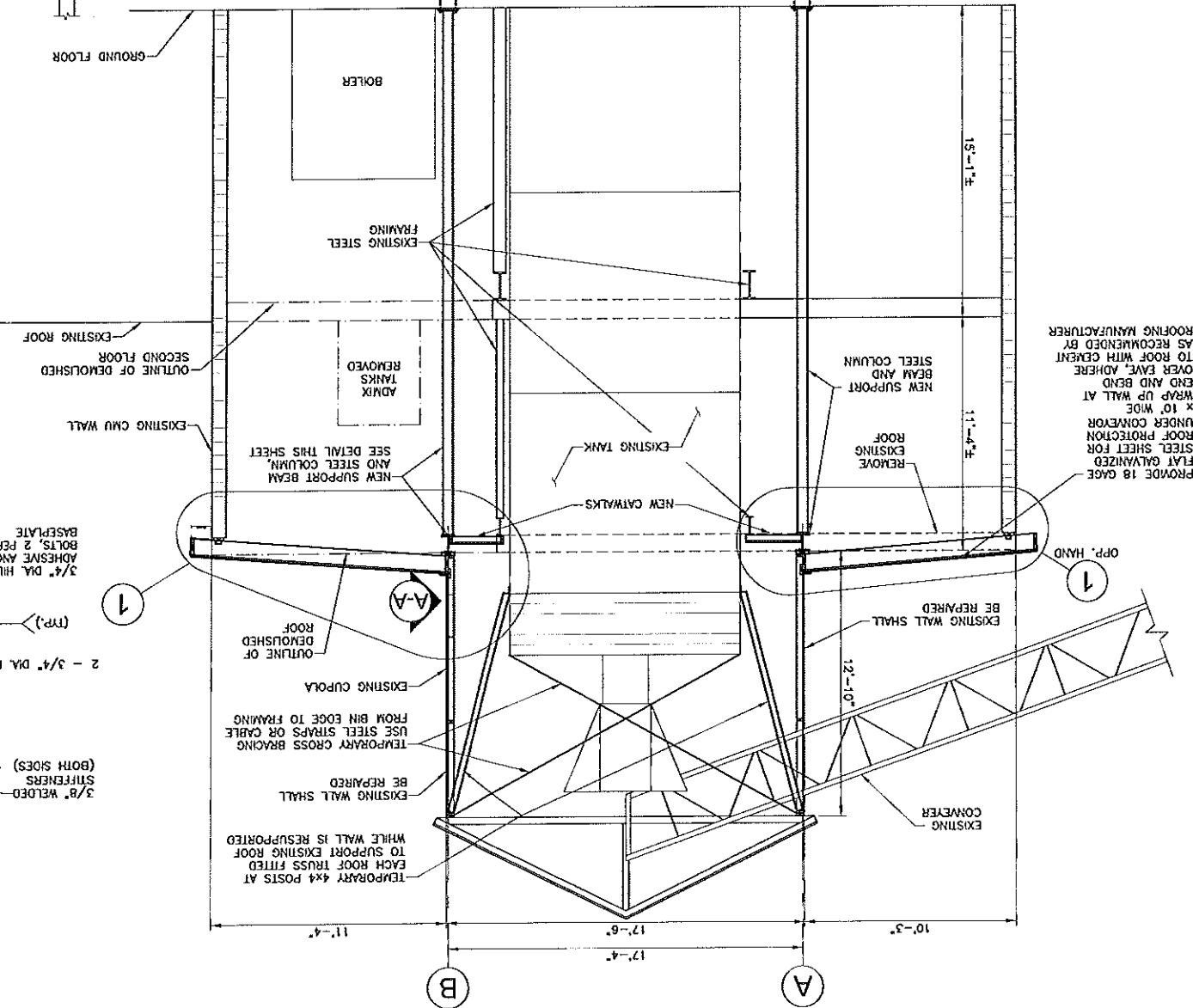
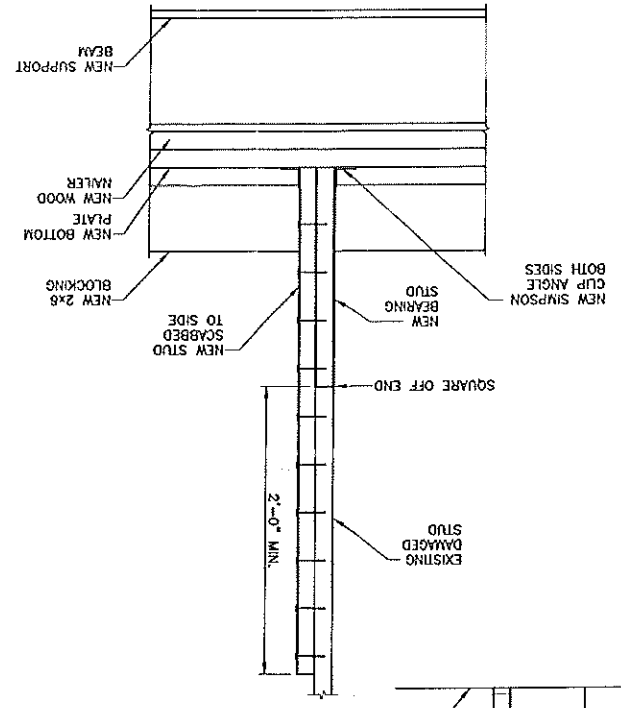
Kleinschmidt
Engineering & Architecture
Portland, Maine 04107
Tel: (207) 487-3322
www.kleinschmidt.com

TYPICAL HANDRAIL DETAIL

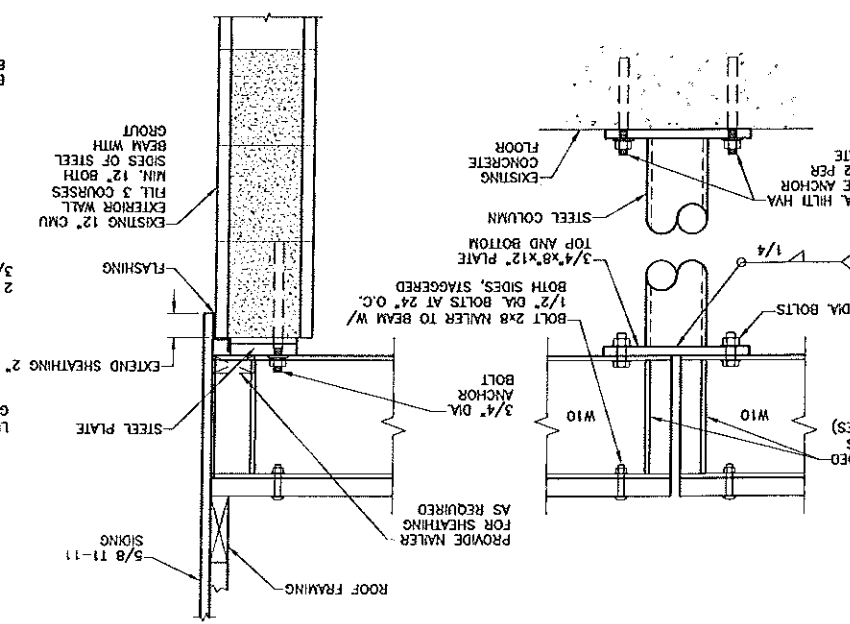


SECTION A

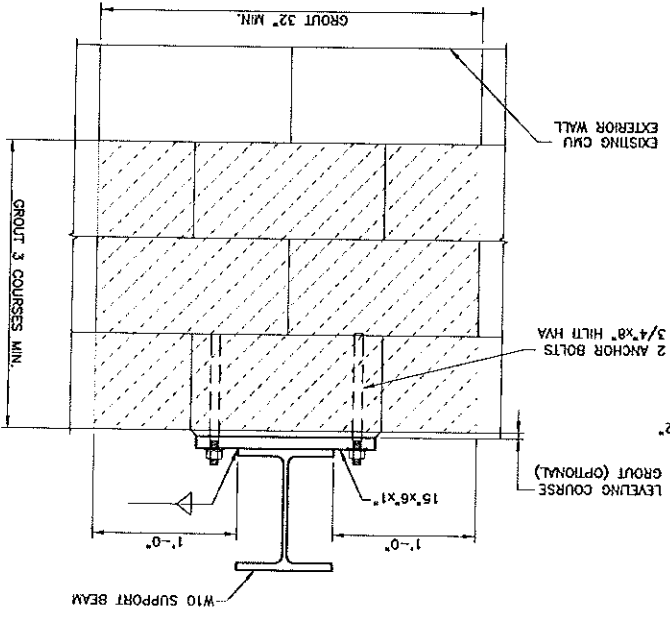
VIEW A-A



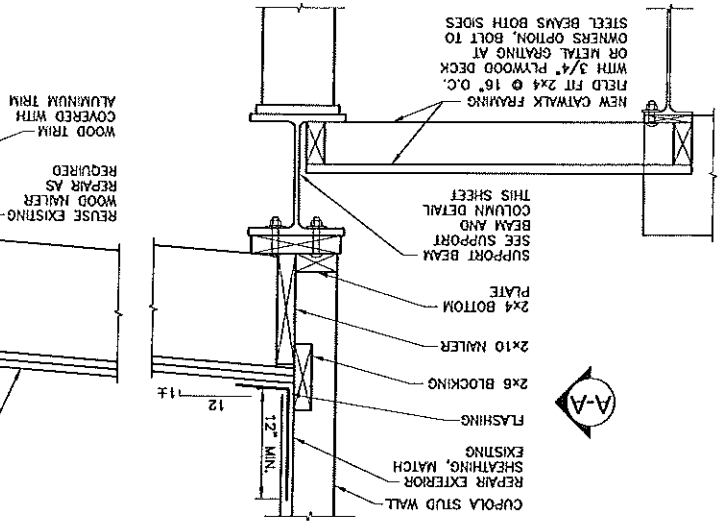
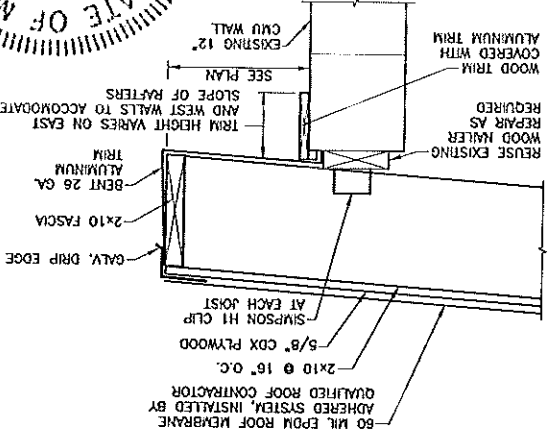
SUPPORT BEAM & COLUMN DETAIL



BEAM END SUPPORT DETAIL



DETAIL 1



VIEW A-A

| No. | Revision | Date | Reason |
|-----|----------|---------|-------------------|
| 1 | AS SHOWN | 3/13/20 | FILED NO. 313-020 |
| 2 | AS SHOWN | 3/13/20 | FILED NO. 313-020 |
| 3 | AS SHOWN | 3/13/20 | FILED NO. 313-020 |
| 4 | AS SHOWN | 3/13/20 | FILED NO. 313-020 |
| 5 | AS SHOWN | 3/13/20 | FILED NO. 313-020 |
| 6 | AS SHOWN | 3/13/20 | FILED NO. 313-020 |
| 7 | AS SHOWN | 3/13/20 | FILED NO. 313-020 |
| 8 | AS SHOWN | 3/13/20 | FILED NO. 313-020 |
| 9 | AS SHOWN | 3/13/20 | FILED NO. 313-020 |
| 10 | AS SHOWN | 3/13/20 | FILED NO. 313-020 |

DRAGON PRODUCTS COMPANY, PORTLAND, MAINE
 PORTLAND BATCH PLANT
 ROOF REPAIRS
 SECTIONS AND DETAILS

Erigo & River Resource Consulting
 Kleinschmidt
 Portland, Maine 04107
 Phone: (207) 437-3328
 Fax: (207) 437-3324
 www.kleinschmidtusa.com

