

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

BUILDING DEPARTMENT

PERMIT

Permit Number: 090498

Please Read Application And Notes, If Any, Attached

This is to certify that 500 RIVERSIDE ASSOCIATES/Warren has permission to interior renovation and expansion of office area with ware house AT 524 RIVERSIDE IND PKWY

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

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

Notification of inspection must be given and written permission procured before this building or part thereof is lath or other work is set-in. 24 HOURS 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. CAPT. K. Gauthier
Health Dept.
Appeal Board
Other Department Name

PERMIT ISSUED

Director - Building & Inspection Services

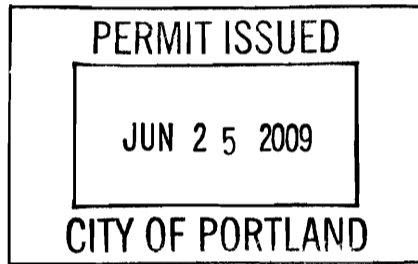
PENALTY FOR REMOVING THIS CARD

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

Permit No: 09-0498	Issue Date:	CBL: 370A A012001
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Location of Construction: 524 RIVERSIDE IND PKWY	Owner Name: 500 RIVERSIDE ASSOCIATES	Owner Address: PO BOX 382	Phone:
Business Name:	Contractor Name: Warren Construction	Contractor Address: P.O. Box 362 South Freeport	Phone: 2078653522
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	Zone: I-M
Past Use: Commercial Warehouse / Office	Proposed Use: Commercial Warehouse/ Office - interior renovation and expansion of office area within ware house <i>ENVIRO LOGIX</i>	Permit Fee: \$5,140.00	Cost of Work: \$512,000.00
Proposed Project Description: interior renovation and expansion of office area within ware house		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <i>* See Conditions</i>	CEO District: 5
		INSPECTION: Use Group <i>B-S1/F-1</i> Type: <i>3B</i> <i>IBC-2003</i>	Signature: <i>(Signature)</i>
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: _____ Date: _____	

Permit Taken By: Ldobson	Date Applied For: 05/22/2009	Zoning Approval		
<ol style="list-style-type: none"> This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building permits do not include plumbing, septic or electrical work. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work.. 		Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: _____	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: _____



CERTIFICATION

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

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

- 7-1-09 OK - rebar inspection: cleaned + tied. *MEW*
- 9-15-09 OK - rough-in elec/plumb (air test) *MEW*
- 11-4-09 Hold on final: No Fire permit, label E-lights, wall esting, UV signs, air gap slop sink. *MEW*
- 11-17-09 Completed list above: except - 1. Fire alarm + brads for HVAC. *MEW*

City of Portland, Maine - Building or Use Permit

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

Permit No: 09-0498	Date Applied For: 05/22/2009	CBL: 370A A012001
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Location of Construction: 524 RIVERSIDE IND PKWY	Owner Name: 500 RIVERSIDE ASSOCIATES	Owner Address: PO BOX 382	Phone:
Business Name:	Contractor Name: Warren Construction	Contractor Address: P.O. Box 362 South Freeport	Phone (207) 865-3522
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	

Proposed Use: Commercial Warehouse/ Office - interior renovation and expansion of office area within warehouse (Enviro-Logix)	Proposed Project Description: interior renovation and expansion of office area within ware house
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Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 05/22/2009
Note: **Ok to Issue:**
 1) Separate permits shall be required for any new signage.
 2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Jeanine Bourke **Approval Date:** 06/25/2009
Note: **Ok to Issue:**
 1) All penetrations through rated assemblies must be protected by an approved firestop system installed in accordance with ASTM 814 or UL 1479, per IBC 2003 Section 712.
 2) Separate permits are required for any electrical, plumbing, sprinkler, fire alarm or HVAC or exhaust systems. Separate plans may need to be submitted for approval as a part of this process.
 3) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Capt Keith Gautreau **Approval Date:** 06/04/2009
Note: **Ok to Issue:**
 1) Fire Alarm system shall be maintained.
 If system is to be off line over 4 hours a fire watch shall be in place.
 Dispatch notification required 874-8576.
 2) Sprinkler protection shall be maintained.
 Where the system is to be shut down for maintenance or repair, the system shall be checked at the end of each day to insure the system has been placed back in service.
 3) Emergency lights are required to be tested at the electrical panel.
 4) Emergency lights and exit signs are required
 5) Occupancies with an occupant load of 100 persons or more require panic hardware on all doors serving as a means of egress.
 6) The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance.
 Compliance letters are required.
 7) The fire alarm system shall comply with NFPA 72 and Fire Department Technical Standard. A compliance letter is required.
 8) Installation of a Fire Alarm system requires a Knox Box to be installed per city ordinance
 9) All construction shall comply with NFPA 101
 10) The sprinkler system shall be installed in accordance with NFPA 13.

Location of Construction: 524 RIVERSIDE IND PKWY	Owner Name: 500 RIVERSIDE ASSOCIATES	Owner Address: PO BOX 382	Phone:
Business Name:	Contractor Name: Warren Construction	Contractor Address: P.O. Box 362 South Freeport	Phone (207) 865-3522
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	

Comments:

6/11/2009-jmb: Left msg for Peter W(contractor) and Peter J(Envirologix). That I have a list of required details and clarifications from the review. Existing and proposed plans to delineate the changes. Need plans for the new stairs/railing, verify the use (S or F), stamped structural plans for new 2nd floor, statement of special inspections, most wall types not labeled, separation from adjacent tenant space not clear, may be 3 hr. Requirement, detail on lift enclosure, what is the 12"x18" pass thru etc...

6/11/2009-jmb: Pete J. Called back and clarified the scope of work, the type of storage and business lab of Envirologix, and connection of the storage to the existing Furniturea storage area. Will need plans that show this integrated tenant S-1 storage space and the Industrial F-1 fire separation wall.

6/24/2009-lmd: Recieved the plans that were references by Jeanie B on 6/16/2009. I gave them to Jeanie.

6/24/2009-jmb: Spoke with Dave M. For detail on stair profile, guardrail detail at open deck and new window opening detail. He will email pdf's.

6/16/2009-jmb: Spoke with Dave M.of TFH about the required details. The plans are changing, the stairs will now be enclosed. He will also provide a comprehensive plan of the integrated storage space with the 2 hour demising wall to the industrial tenant. Also will get stamped engineering and SI statement.

6/25/2009-jmb: Received details from Dave M., ok to issue



General Building Permit Application

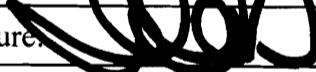
If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>530 RIVERSIDE INDUSTRIAL PARKWAY</u>		
Total Square Footage of Proposed Structure/Area <u>Additional 3172 SF INTERIOR</u>		Square Footage of Lot <u>150,028 SF</u>
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# <u>370A-A-12</u>	Applicant * must be owner, Lessee or Buyer * Name <u>PETER JOHNSON VPO, CFB</u> <u>ENVIRELOGIX</u> Address <u>500 RIVERSIDE IND PKWY</u> City, State & Zip <u>PORTLAND ME 04103</u>	Telephone: <u>207-747-0300</u>
Lessee/DBA (If Applicable) <u>ENVIRELOGIX INC.</u> <u>500 RIVERSIDE IND. PKWY.</u> <u>PORTLAND, ME 04103</u>	Owner (if different from Applicant) Name Address City, State & Zip	Cost Of Work: \$ <u>512,000</u> C of O Fee: \$ <u> </u> Total Fee: \$ <u>5,140</u>
Current legal use (i.e. single family) <u>INDUSTRIAL/BUSINESS</u> If vacant, what was the previous use? _____ Proposed Specific use: <u>INDUSTRIAL/BUSINESS</u> Is property part of a subdivision? <u>NO</u> If yes, please name _____ Project description: <u>INTERIOR RENOVATION AND EXPANSION OF OFFICE AREA WITHIN WAREHOUSE.</u>		
Contractor's name: <u>WARREN CONSTRUCTION GROUP LLC</u> Address: <u>POB 302</u> City, State & Zip: <u>SOUTH FREEPORT, ME 04078</u> Telephone: <u>207 865 3512</u> Who should we contact when the permit is ready: <u>PETER WARREN</u> Telephone: " " " Mailing address: <u>POB 302 S. FREEPORT ME 04078</u>		

Please submit all of the information outlined on the applicable 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 or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division 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 code applicable to this permit.

Signature:  Date: 5/21/09

This is not a permit; you may not commence ANY work until the permit is issue



Certificate of Design Application

From Designer:

T. SCOTT TEAS

Date:

5/20/09

Job Name:

530 RIVERSIDE INDUSTRIAL PARKWAY

Address of Construction:

PORTLAND, ME 04103

2003 International Building Code

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

Building Code & Year IBC 2003 Use Group Classification (s) INDUSTRIAL/BUSINESS

Type of Construction 3B

Will the Structure have a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IRC YES

Is the Structure mixed use? YES If yes, separated or non separated or non separated (section 302.3) SEPARATED

Supervisory alarm System? YES Geotechnical/Soils report required? (See Section 1802.2) NO

Structural Design Calculations NA

Submitted for all structural members (106.1 - 106.11)

Design Loads on Construction Documents (1603)

Uniformly distributed floor live loads (7603.11, 1807)

Floor Area Use	Loads Shown

Wind loads (1603.1.4, 1609)

- Design option utilized (1609.1.1, 1609.6)
- Basic wind speed (1809.3)
- Building category and wind importance Factor, I_w table 1604.5, 1609.5
- Wind exposure category (1609.4)
- Internal pressure coefficient (ASCE 7)
- Component and cladding pressures (1609.1.1, 1609.6.2.2)
- Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

- Design option utilized (1614.1)
- Seismic use group ("Category")
- Spectral response coefficients, S_D s & S_{D1} (1615.1)
- Site class (1615.1.5)

po/15/e

- Live load reduction
- Roof *live* loads (1603.1.2, 1607.11)
- Roof snow loads (1603.7.3, 1608)
- Ground snow load, P_g (1608.2)
- If $P_g > 10$ psf, flat-roof snow load P_f
- If $P_g > 10$ psf, snow exposure factor, C_e
- If $P_g > 10$ psf, snow load importance factor, I_s
- Roof thermal factor, C_t (1608.4)
- Sloped roof snowload, P_s (1608.4)
- Seismic design category (1616.3)
- Basic seismic force resisting system (1617.6.2)
- Response modification coefficient, R and deflection amplification factor C_d (1617.6.2)
- Analysis procedure (1616.6, 1617.5)
- Design base shear (1617.4, 1617.5.1)

Flood loads (1803.1.6, 1612)

- Flood Hazard area (1612.3)
- Elevation of structure

Other loads

- Concentrated loads (1607.4)
- Partition loads (1607.5)
- Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)

CS

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

- Re-Bar Schedule Inspection: Prior to pouring concrete**
- Framing/Rough Plumbing/Electrical: Prior to Any Insulating or drywalling**
- Final inspection required at completion of work.**
- The final report of Special Inspections shall be submitted prior to the final inspection or the issuance of the Certificate of Occupancy**

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.

Clara Kinney
Signature of Applicant/Designee

6/26/09
Date

Jeanne Banta
Signature of Inspections Official

6/25/09
Date



Certificate of Design

Date: 5/20/09

From: T. SCOTT TEAS

These plans and / or specifications covering construction work on:

530 RIVERSIDE INDUSTRIAL PARKWAY
PORTLAND, ME 04103

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: _____

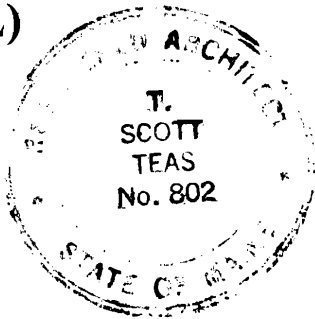
Title: PRINCIPAL

Firm: TFH ARCHITECTS

Address: 80 MIDDLE ST
PORTLAND, ME 04101

Phone: 207 773 1141

(SEAL)



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



Accessibility Building Code Certificate

Designer: T. SCOTT TEAS

Address of Project: 530 INDUSTRIAL PARKWAY, PORTLAND, ME

Nature of Project: INTERIOR RENOVATION & EXPANSION
WITHIN EXISTING WAREHOUSE.

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: _____

Title: PRINCIPAL

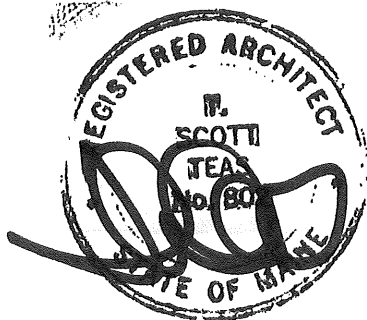
Firm: TFA ARCHITECTS

Address: 80 MIDDLE ST.

PORTLAND, ME 04101

Phone: 207 775-6141

(SEAL)



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Jeanie Bourke - Enviroligix follow up

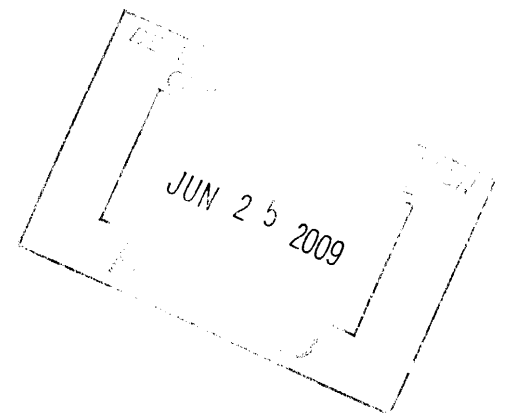
From: "David Merrill" <dam@TFHArchitects.com>
To: <jmb@portlandmaine.gov>
Date: 6/24/2009 4:42 PM
Subject: Enviroligix follow up

Jeanie-

Attached are a blow up of the stair detail, a pair of guard rail details and the building exterior wall sections with window placement. As I mentioned the guardrail will be selected based on final costs. I apologize for the mismatched paper sizes if you would like hard copies please let me know or if you have any questions or need further clarification please call.

Thanks,

Dave Merrill
TFH Architects
80 Middle Street
Portland, ME 04101
T 207-775-6141
F 207-773-0194
www.tfharchitects.com





Certificate of Design

Date: 5/20/09

From: T. SCOTT TEAS

These plans and / or specifications covering construction work on:

530 RIVERSIDE INDUSTRIAL PARKWAY
PORTLAND, ME 04103

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: _____

Title: PRINCIPAL

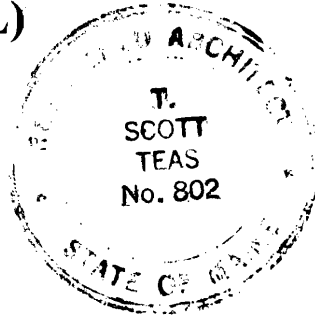
Firm: TFA ARCHITECTS

Address: 80 MIDDLE ST

PORTLAND, ME 04101

Phone: 207.773.4141

(SEAL)



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

Transmittal Letter

Project: Envirologix Renovations
Riverside Industrial Parkway

Project No.: 0902
Date: 06/23/09

To: Jeanie Bourke
Division Director
Inspectional Services Division
389 Congress Street, 3rd floor
Portland, ME 04101 USA

Phone No.: 207-874-8699
Fax No.:

If enclosures are not as noted, please inform us immediately.

We transmit:

- Herewith Under separate cover via
 In accordance with your request

For your:

- Approval Distribution to Parties Information
 Record Review and Comment
 Use

The following:

- Drawings Shop Drawing Prints Samples
 Specifications Shop Drawing Reproducibles Submittal Product Literature
 Change Order Other: Application

Copies	Date	Rev. No.	Description	Action
1	-		Building layout and demolition plan D1-1	E
1			First Floor plan A1-1	E
1			Second Floor plan A1-2	E
1			Stair Detail Sheet A5-1	E
1			Signed, stamped Structural plan S1	E
1			Structural Test and Inspections form	E

Action Code:

- A. Action indicated on item transmitted D. For signature and forwarding as
B. No action required noted below under Remarks
C. For signature and return to this office E. See Remarks below

Remarks:

Jeanie-

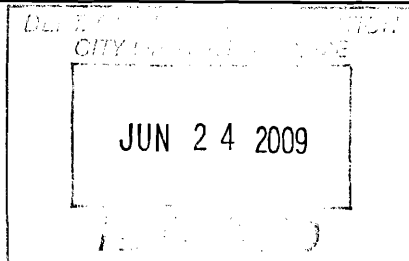
I believe this should clarify the questions we discussed. I'll forward PDF's of these in the morning for you records as well and follow up with a call.

Thanks,

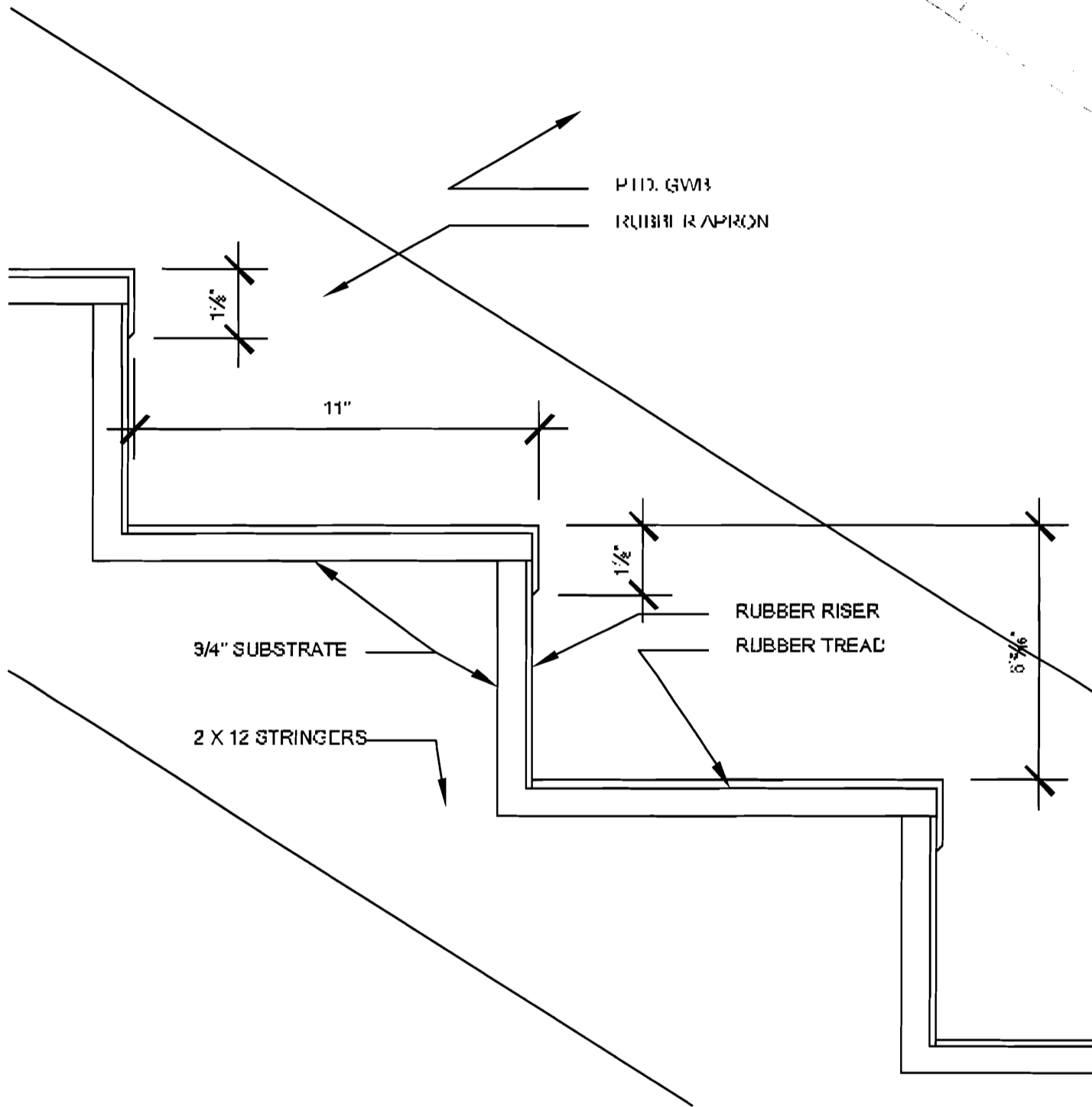
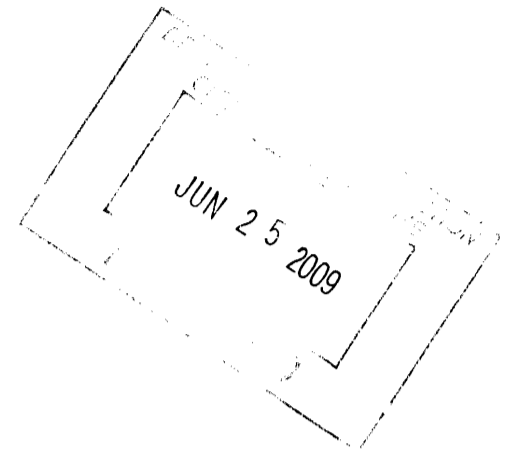
Copies to:

- TST
JEP
File

- TFH Architects, P. A.**
 80 Middle Street
 Portland Maine 04101
 Telephone 207-775-6141
 Fax No.: 207-773-0194
 By: Dave Merrill

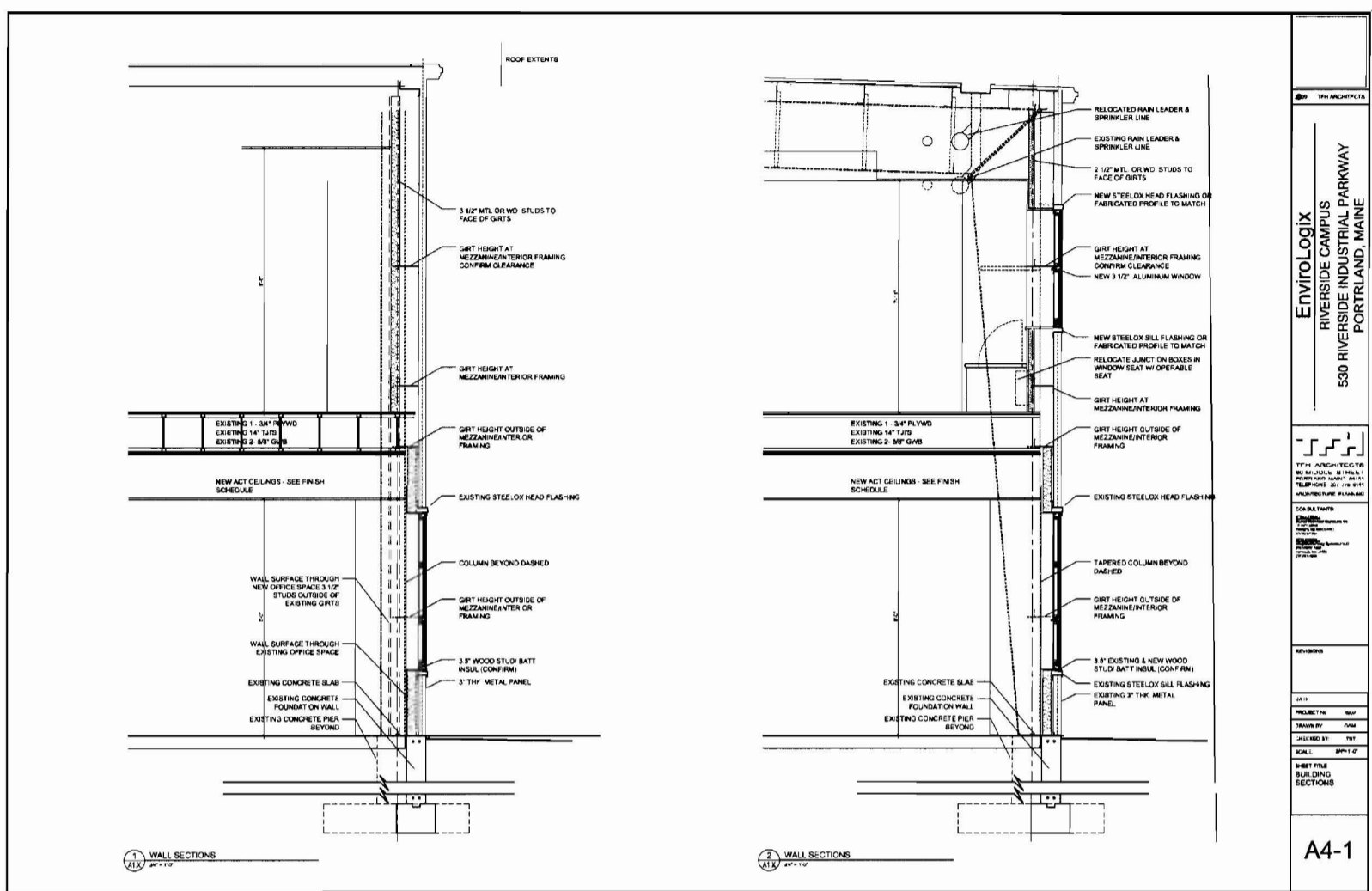


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3 STAIR DETAIL
A5.1

JUN 25 2009



EnviroLogix
RIVERSIDE CAMPUS
530 RIVERSIDE INDUSTRIAL PARKWAY
PORTLAND, MAINE

177-11 ARCHITECTURE
100 BUCKLE UP DRIVE
PORTLAND, MAINE 04101
TEL: 603.875.1111
WWW.ENVIROLOGIX.COM

CONTRACT NO.
PROJECT NO.
DATE
SCALE: 3/8" = 1'-0"

SHEET TITLE
BUILDING SECTIONS

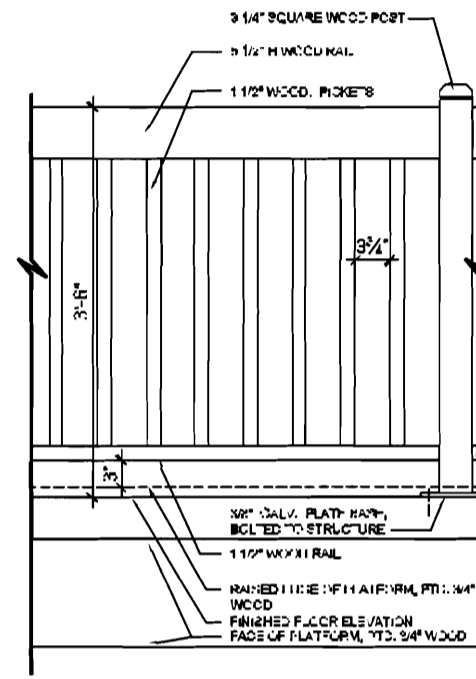
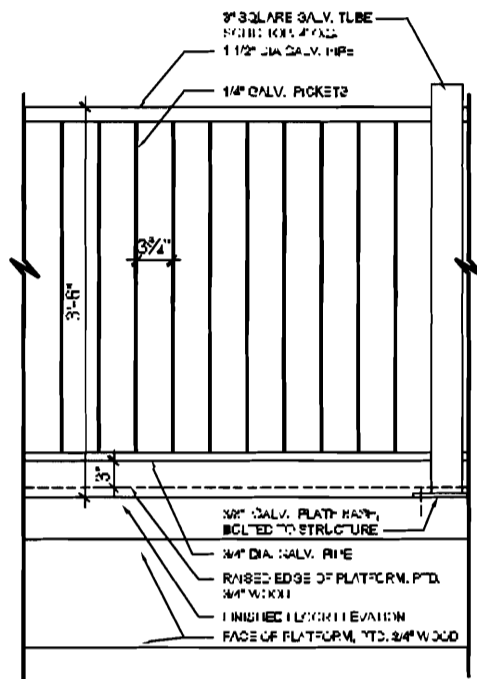
A4-1

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DESIGNED BY
CITY
JUN 25 2009

ALTERNATE 1 - GALVANIZED STEEL

ALTERNATE 2 - PAINTED WOOD



GUARDRAIL DESIGN TO BE SELECTED BY
OWNER UPON REVIEW OF ALTERNATE
PRICING

4 GUARDRAILS DETAILS
A5.1 3/4" = 1:12"

Statement of Special Inspections

Enviro Logix Second Floor Expansion
530 Riverside Industrial Parkway
Portland, Maine

Prepared by:

Structural Engineer of Record
Becker Structural Engineers, Inc.
75 York Street
Portland, ME 04101
207. 879. 1838

Owner:

EnviroLogix
500 Riverside Industrial Parkway
Portland, ME 04103
207. 797. 0300

PDF ✓

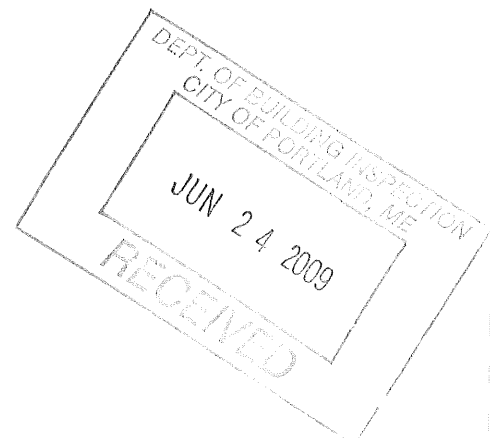
Architect of Record:

TFH Architects
80 Middle Street
Portland, ME 04101
207. 775. 6141

General Contractor:

Warren Construction Group, LLC
PO Box 362
Freeport, ME 04078
207. 865. 3522

June 24, 2009



Statement of Special Inspections - Exhibit A

Project: *EnviroLogix Second Floor Expansion*
Location: *530 Riverside Industrial Parkway, Portland, Maine*
Owner: *EnviroLogix*

This *Statement of Special Inspections* encompass the following discipline:

- Structural
- Mechanical/Electrical/Plumbing
- Architectural
- Other: _____

Design Professional in Responsible Charge: *David A. Macolini, P.E.*

Firm Name: *Becker Structural Engineers, Portland, ME*

(Note: *Statement of Special Inspections* for other disciplines may be included under a separate cover)

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 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.

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

Interim Report Frequency: Upon request of Building Official _____ or per attached schedule.

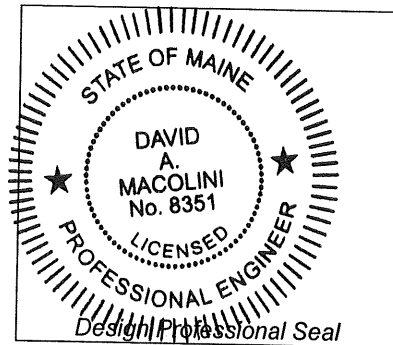
Prepared by:

David A. Macolini, P.E.

(type or print name of the Structural Registered Design Professional in Responsible Charge)

David A. Macolini
Signature

6-23-09
Date



Owner's Authorization:

Building Code Official's Acceptance:

Signature

Date

Jeanne Bouke
Signature *6/24/09*
Date

Statement of Special Inspections (Continued) - Exhibit A

List of Agents

Project: *EnviroLogix Second Floor Expansion*
 Location: *530 Riverside Industrial Parkway, Portland, Maine*
 Owner: *EnviroLogix*

This *Statement of Special Inspections* encompass the following discipline:

- Structural
- Mechanical/Electrical/Plumbing
- Architectural
- Other: _____

(Note: *Statement of Special Inspections* for other disciplines may be included under a separate cover)

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

- Soils and Foundations
- Cast-in-Place Concrete
- Precast Concrete
- Masonry
- Structural Steel
- Wood Construction
- Spray Fire Resistant Material
- Cold-Formed Steel Framing
- Exterior Insulation and Finish System
- Mechanical & Electrical Systems
- Architectural Systems
- Special Cases

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. Structural Special Inspection Coordinator (SSIC)	<i>Becker Structural Engineers (BSE)</i>	<i>75 York Street Portland, ME 04107 (207) 879-1838 info@beckerstructural.com</i>
2. Special Inspector (SI 1)	<i>Becker Structural Engineers (BSE)</i>	<i>75 York Street Portland, ME 04107 (207) 879-1838 info@beckerstructural.com</i>
3. Special Inspector (SI 2)		
4. Testing Agency (TA 1)		
5. Testing Agency (TA 2)		
6. Other (O1)		

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.

Statement of Special Inspections (Continued) - Exhibit A

Final Report of Special Inspections (SSIC/SI 1)

[To be completed by the Structural Special Inspections Coordinator (SSIC/SI 1). Note that all Agent's Final Reports must be received prior to issuance.]

Project: *EnviroLogix Second Floor Expansion*
Location: *530 Riverside Industrial Parkway, Portland, Maine*
Owner: *EnviroLogix*
Owner's Address: *500 Riverside Industrial Parkway, Portland, Maine*

Architect of Record: *T. Scott Teas* *TFH Architects*
(name) (firm)

Structural Registered Design
Professional in Responsible Charge: *David A. Macolini, P.E.* *Becker Structural Engineers*
(name) (firm)

To the best of my information, knowledge and belief, the Special Inspections required for this project, and itemized in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved other than the following:

Comments:

(Attach continuation sheets if required to complete the description of corrections.)

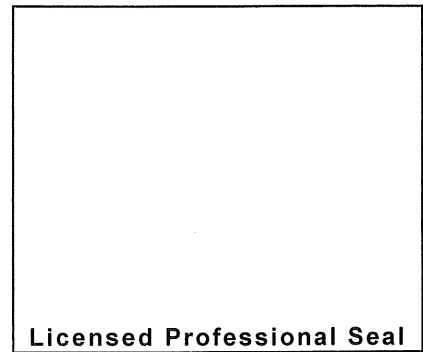
Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,
Structural Special Inspection Coordinator

David A. Macolini, P.E.
(Type or print name)

Becker Structural Engineers, Inc.
(Firm Name)

Signature Date



Schedule of Special Inspections – Exhibit B

CONCRETE CONSTRUCTION

©Becker Structural Engineers, Inc. 2005

Project: EnviroLogix Second Floor Expansion, Portland, ME
 Date Prepared: 06/23/2009

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	DATE	INITIAL
IBC Section 1704.4							
1. Inspection of reinforcing steel and placement	Y	P	ACI 318: 3.5, 7.1-7.7	SI1	PE/SE or EIT		
2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5B	N/A		Welding of Reinf Not Allowed				
3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased	N	C	IBC 1912.5 Allow. Loads not increased				
4. Verifying use of required design mix	Y	S	ACI 318: Ch 4, 5.2-5.4	SI1	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	N	C	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8				
6. Inspection of concrete placement for proper application techniques	N	C	ACI 318: 5.9, 5.10				
7. Inspection for maintenance of specified curing temperature and techniques	N	P	ACI 318: 5.11- 5.13				
8. Inspection of Prestressed Concrete	N/A						
a. Application of prestressing force.	N/A	C	ACI 318: 18.20				
b. Grouting of bonded prestressing tendons in seismic force resisting system	N/A	C	ACI 318: 18.18.4				
9. Erection of precast concrete members	N/A	P	ACI 318: Ch 16				
10. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms beams and structural slabs	N/A	P	ACI 318: 6.2				

Concrete Construction has been reviewed in accordance with section 1704.4 of the IBC Code

Special Inspector _____

Date _____

Page of _____

Schedule of Special Inspections – Exhibit B

STEEL CONSTRUCTION

Project: EnviroLogix Second Floor Expansion, Portland, ME
 Date Prepared: 06/23/2009

VERIFICATION AND INSPECTION IBC Section 1704.3	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	DATE	INITIAL
1. Material verification of high-strength bolts, nuts and washers:							
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	N	S	Applicable ASTM material specifications; AISC 335, Section A3.4; AISC LRFD, Section A3.3				
b. Manufacturer's certificate of compliance required.	N	S					
2. Inspection of high-strength bolting							
a. Bearing-type connections.	Y	P	AISC LRFD Section M2.5 IBC Sect 1704.3.3	SII	PE or EIT		
b. Slip-critical connections.	N/A	C or P (method dependent)					
3. Material verification of structural steel (IBC Sect 1708.4):							
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	N	S	ASTM A 6 or ASTM A 568 IBC Sect 1708.4				
b. Manufacturers' certified mill test reports.	N	S	ASTM A 6 or ASTM A 568 IBC Sect 1708.4				
4. Material verification of weld filler materials:							
a. Identification markings to conform to AWS specification in the approved construction documents.	N	S	AISC, ASD, Section A3.6; AISC LRFD, Section A3.5				
b. Manufacturer's certificate of compliance required.	N	S					

Steel Construction has been reviewed in accordance with section 1704.3 of the IBC Code

Special Inspector _____ Date _____

Schedule of Special Inspections – Exhibit B

STEEL CONSTRUCTION

Project: EnviroLogix Second Floor Expansion, Portland, ME
 Date Prepared: 06/23/2009

VERIFICATION AND INSPECTION IBC Section 1704.3	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	DATE	INITIAL
5. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project.	N	S	AWS D1.1				
6. Inspection of welding (IBC 1704.3.1): a. Structural steel:							
1) Complete and partial penetration groove welds.	N/A	C	AWS D1.1				
2) Multipass fillet welds.	N/A	C					
3) Single-pass fillet welds > 5/16"	N/A	C					
4) Single-pass fillet welds < 5/16"	Y	P		SII	PE or EIT		
5) Floor and Roof deck welds.	N/A	P	AWS D1.3				
b. Reinforcing steel (IBC Sect 1903.5.2):							
1) Verification of weldability of reinforcing steel other than ASTM A706.	N		Welding of Reinforcement not permitted				
2) 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.	N	C	AWS D1.4 ACI 318: 3.5.2				
3) Shear reinforcement.	N	C					
4) Other reinforcing steel.	N	P					
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.	Y	P		SII	PE/SE or EIT		
b. Member locations.	Y	P		SII	PE/SE or EIT		
c. Application of joint details at each connection.	Y	P		SII	PE/SE or EIT		

Steel Construction has been reviewed in accordance with section 1704.3 of the IBC Code

Special Inspector _____

Date _____

Page of

Schedule of Special Inspections – Exhibit B

WOOD CONSTRUCTION

©Becker Structural Engineers, Inc. 2005

Project: EnviroLogix Second Floor Expansion, Portland, ME
 Date Prepared: 06/23/2009

VERIFICATION AND INSPECTION IBC Section 1704.6	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	DATE	REV
1. Fabrication of high-load diaphragms	N/A						
a. Verify wood structural panel sheathing for grade and thickness	N/A	P	IBC 1704.6				
b. Verify the nominal size of framing members at adjoining panel edges	N/A	P	IBC 1704.6				
b. Verify the nail diameter and length	N/A	P	IBC 1704.6				
b. Verify the number of fastener lines	N/A	P	IBC 1704.6				
b. Verify the spacing between fasteners in each line and at edge margins	N/A	P	IBC 1704.6				
2. Load Tests for Joist Hangers: Provide evidence of manufacturer's load test in accordance with ASTM D1761 including the vertical load bearing capacity, torsional moment capacity, and deflection characteristics when there is no calculated procedure recognized by the code.	N/A	S	IBC approved Simpson connectors specified				
3. Inspection of rough wood framing such as stud walls, posts, beams, joists, subflooring, metal connectors, nailing, bolting.	Y	P		SII	PE/SE or EIT		

Wood Construction has been reviewed in accordance with section 1704.6 of the IBC Code

Special Inspector _____ Date _____



84 Pleasant Hill Road • Scarborough, Maine 04074 • (207) 883-5448

OUR FAX # (207)883-1660

FAX TRANSMITTAL

Date 11-17-09 Pages Including this page 2

To Miko Minered at FAX# 874-8716

of City of Portland

From Sandy

Re: Permit 500 Riverside St.



CITY OF PORTLAND, MAINE

Department of Building Inspections

Original Receipt

11 13 2009

Received from

Seabee

Location of Work

500 Riverside
Environology

Cost of Construction \$ _____

Building Fee: _____

Permit Fee \$ _____

Site Fee: _____

Certificate of Occupancy Fee: _____

Total: 70

Building (IL)

Plumbing (IS)

Electrical (I2)

Site Plan (U2)

Other Fire Alarm

CBL: 370-A-A-12

Check #: _____

Total Collected \$ 70

No work is to be started until permit issued.
Please keep original receipt for your records.

RECEIVED

Taken by: _____

[Signature] NOV 13 2009

Dept. of Building Inspections
City of Portland Maine

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

RECORD OF PAYMENT OR
EMPLOYEE PAY STATEMENT

DATE	TO THE ORDER OF	REGULAR EARNINGS	TIPS	GROSS	FICA	FED. TAX	STATE TAX	TIPS	CHECK NUMBER	NET AMOUNT	HOURS
11/13/09	City of Portland								9546	70.00	
	Permit - Environology Fire Alarm										

PAY PERIOD FROM _____

RATE OF PAY _____

[Signature]

NON - NEGOTIABLE

370A-A003

Statement of Special Inspections (Continued) - Exhibit A

Final Report of Special Inspections (SSIC/SI 1)

[To be completed by the Structural Special Inspections Coordinator (SSIC/SI 1). Note that all Agent's Final Reports must be received prior to issuance.]

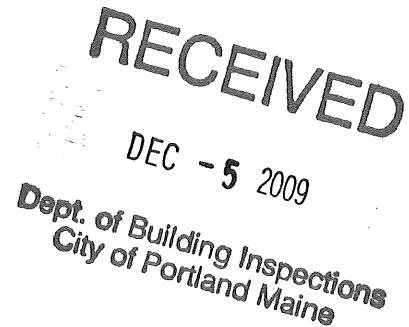
Project: *EnviroLogix Second Floor Expansion*
Location: *530 Riverside Industrial Parkway, Portland, Maine*
Owner: *EnviroLogix*
Owner's Address: *500 Riverside Industrial Parkway, Portland, Maine*

Architect of Record: *T. Scott Teas* *TFH Architects*
(name) (firm)

Structural Registered Design
Professional in Responsible Charge: *David A. Macolini, P.E.* *Becker Structural Engineers*
(name) (firm)

To the best of my information, knowledge and belief, the Special Inspections required for this project, and itemized in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved other than the following:

Comments:



(Attach continuation sheets if required to complete the description of corrections.)

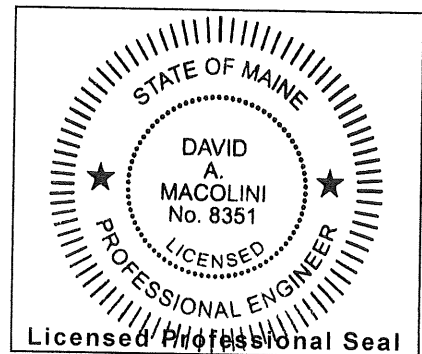
Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,
Structural Special Inspection Coordinator

David A. Macolini, P.E.
(Type or print name)

Becker Structural Engineers, Inc.
(Firm Name)

David A. Macolini *12-2-09*
Signature Date



SPECIAL INSPECTION
FIELD REPORT
Rough Carpentry – No. 5

Date:	09-10-09 & 10-23-09
Time:	8:30 AM to 9:30 AM
Temp:	50's F
Weather:	indoor

Project:	EnviroLogix 2nd Flr. Expansion
Location:	530 Riverside Industrial Parkway Portland, ME
Becker Job No:	2144

Met with Ken Hough of Warren Construction Group, LLC.

Observation Location: 9-10-09: Review of wood ceiling framing at 2nd floor. Refer to ceiling framing sketches by Becker Structural Engineers.
 10-23-09: LVL Wood framed HVAC support platform. Refer to sketches SSK-7&8.

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	
Member Sizes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Comments
Material Quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bearing Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Connections	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nailing Pattern	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bridging/Bracing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

Wood framing work is substantially complete.

A wood LVL brace is to be added to the LVL framed HVAC support framing – see SSK-7A dated 10-23-09.

A section of an original wood beam is to be cut out for ducts – see SSK-11 dated 10-23-09.

Note: 11-13-09 – Ken Hough reports that work shown on SSK-7A & SSK-11 is complete.

Signed: David A. Macolini, P.E.

B E C K E R

05120

structural engineers, inc.

SPECIAL INSPECTION
FIELD REPORT
Structural Steel – No. 3

Date:	Friday, 10-23-09
Time:	8:30 AM to 9:30 AM
Temp:	50's F
Weather:	indoor

Project:	EnviroLogix 2nd Flr. Expansion
Location:	530 Riverside Industrial Parkway, Portland, ME
Becker Job No:	2144

Observation Location: Steel support platform at original building column for HVAC unit. Two steel columns for wood support framing for HVAC units.

Met with Ken Hough of Warren Construction Group.

Refer to sketches SSK-7 & 8 and SSK-9 & 10 dated 9-15-09.

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Bolt Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Weld Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Anchor Bolts, Nuts, & Washers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Grout/Leveling Plates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fit Up/Plumbness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Metal Deck Welds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pour Stops	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Bracing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Items	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Items	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

Fabrication and installation of these structural steel items appears to be in substantial conformance with the details.

Signed: David A. Macolini, P.E.

BECKER

structural engineers, inc.

06100

SPECIAL INSPECTION

FIELD REPORT

Rough Carpentry – No. 4

Date:	Tuesday, 8-19-09
Time:	8:00 AM to 9:30 AM
Temp:	80's F
Weather:	indoor

Project:	EnviroLogix 2nd Flr. Expansion
Location:	530 Riverside Industrial Parkway Portland, ME
Becker Job No:	2144

Met with Ken Hough of Warren Construction Group, LLC.

Observation Location: Throughout

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Member Sizes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Material Quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bearing Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Connections	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nailing Pattern	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bridging/Bracing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See note below.
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2 nd floor ceilings – see note below
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

Elevator shaft and stair are framed. Framing shown on S1 & S2 is complete. Framing is in substantial conformance with structural drawings S1 & S2.

Framing of second floor partitions and ceilings is in progress. *Ceiling framing sketches were issued week of August 10th.*

Lines of 2x4 horizontal bracing at 24" o.c. are being nailed to the bottom of 11-7/8" I-joists because ceiling drywall is not being applied.

Signed: David A. Macolini, P.E.

B E C K E R

06100

structural engineers, inc.

SPECIAL INSPECTION
FIELD REPORT
Rough Carpentry – No. 3

Date:	Tuesday, 7-28-09
Time:	3:30 PM to 4:45 PM
Temp:	70's F
Weather:	indoor

Project:	EnviroLogix 2nd Flr. Expansion
Location:	530 Riverside Industrial Parkway Portland, ME
Becker Job No:	2144

Met with Ken Hough of Warren Construction Group, LLC.

Observation Location: Wood framing has progressed from steel line B.2 to exit hallway wall. Stair is mostly framed.

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Member Sizes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Material Quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bearing Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Connections	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nailing Pattern	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bridging/Bracing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See note below.
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

Majority of framing shown on S1 & S2 is complete, but some work is in progress.

Framing of partitions is in progress.

Lines of joist bridging or horizontal bracing at the bottom of joists would be needed if ceiling drywall is not being applied. To be discussed with TFH Architects.

Signed: David A. Macolini, P.E.

B E C K E R

05120

structural engineers, inc.

SPECIAL INSPECTION
FIELD REPORT
Structural Steel – No. 2

Date:	Tuesday, 7-28-09
Time:	3:30 PM to 4:45 PM
Temp:	70's F
Weather:	indoor

Project:	EnviroLogix 2nd Flr. Expansion
Location:	530 Riverside Industrial Parkway, Portland, ME
Becker Job No:	2144

Observation Location: steel frames with pipe holes.

Met with Ken Hough of Warren Construction Group.

Welder on site. Refer to sketches SSK-4 & SSK-5.

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Bolt Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Weld Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Anchor Bolts, Nuts, & Washers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Grout/Leveling Plates	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fit Up/Plumbness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Metal Deck Welds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pour Stops	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Bracing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Items	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Field welding of plates for holes in existing frames. See detail D/S2
Additional Items	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

Welding of ¼ steel plates is complete at two existing frames for pipe penetration holes as shown on detail sketches SSK-4 & SSK-5.

Signed: David A. Macolini, P.E.

B E C K E R

03300

structural engineers, inc.

Project:	EnviroLogix 2nd Flr. Expansion
Location:	530 Riverside Industrial Parkway, Portland, ME
Becker Job No:	

SPECIAL INSPECTION
FIELD REPORT
Cast in Place Concrete – No. 2

Date:	Tuesday 7-28-09
Time:	3:30 PM to 4:45 PM
Temp:	70's F
Weather:	indoor

Met with Ken Hough of Warren Construction Group, LLC.

Observation Location:
Elevator pit. Refer to drawings S1 & S2.

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Reinforcement Size	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Placement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Embed/Anchors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Lap Splices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Hot Weather	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cold Weather	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Bond Beams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Items	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Items	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Notes:
Concrete scheduled to be poured later this week.

Excavation meets specified footing depth. Reinforcing steel set according to Detail K/S2.

Signed: David A. Macolini, P.E.

BECKER

06100

structural engineers, inc.

SPECIAL INSPECTION**FIELD REPORT****Rough Carpentry – No. 2****Date:** Tuesday, 7-21-09**Time:** 7:30 AM to 9:00 AM**Temp:** 60's F**Weather:** indoor

Project:	EnviroLogix 2nd Flr. Expansion
Location:	530 Riverside Industrial Parkway, Portland, ME
Becker Job No:	2144

Met with Ken Hough, Dan Simpson, and Mike Oliver of Warren Construction Group, LLC.

Observation Location: Wood framing has progressed between lines 8.3 and 11 from line A.8 to B.2 steel line. Also framed is area from line A to A.8 between lines 8.3 and 8.7.

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Member Sizes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Material Quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bearing Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Connections	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nailing Pattern	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bridging/Bracing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See note below.
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

Framing is in progress.

Lines of joist bridging or horizontal bracing at the bottom of joists would be needed if ceiling drywall is not being applied. To be discussed with TFH Architects.

Signed: David A. Macolini, P.E.

B E C K E R

05120

structural engineers, inc.

SPECIAL INSPECTION
FIELD REPORT
Structural Steel – No. 1

Date:	Tuesday, 7-21-09
Time:	7:30 AM to 9:00 AM
Temp:	60's F
Weather:	indoor

Project:	EnviroLogix 2nd Flr. Expansion
Location:	530 Riverside Industrial Parkway, Portland, ME
Becker Job No:	2144

Observation Location: steel columns, beams, and bracing throughout.

Met with Ken Hough, Dan Simpson, and Mike Oliver of Warren Construction Group.

Refer to drawings S1 and S2. Steel beams, columns, and brace installed.

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Bolt Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Weld Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Anchor Bolts, Nuts, & Washers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Grout/Leveling Plates	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fit Up/Plumbness	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Metal Deck Welds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pour Stops	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Bracing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Items	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Field welding of plates for holes in existing frames. See detail D/S2
Additional Items	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

Incomplete welding of plates at existing frames for pipe penetration holes. Discussed with Ken Hough at site. Welding is to be completed as shown on detail sketches SSK-4 & SSK-5.

Concrete slab patched at columns: base plate anchors, leveling plates, and grout not visible. Discussed onsite w/ Warren Construction and they confirmed installation of anchors etc.

Signed: David A. Macolini, P.E.

BECKER

06100

structural engineers, inc.

SPECIAL INSPECTION
FIELD REPORT
Rough Carpentry – No. 1

Date:	Tuesday, 6-30-09
Time:	7:45 AM to 8:45 AM
Temp:	60 F
Weather:	indoor work

Project:	EnviroLogix 2nd Flr. Expansion
Location:	530 Riverside Industrial Parkway, Portland, ME
Becker Job No:	2144

Met with Dan Simpson of Warren Construction Group, LLC.

Observation Location:

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Member Sizes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Material Quality	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bearing Condition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Connections	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Nailing Pattern	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Bridging/Bracing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes:

Lumber and I-joist framing stored on site conforms to specification notes on drawing S1.

Signed: David A. Macolini, P.E.

B E C K E R

structural engineers, inc.

03300

Project:	EnviroLogix 2nd Flr. Expansion
Location:	530 Riverside Industrial Parkway, Portland, ME
Becker Job No:	2144

SPECIAL INSPECTION

FIELD REPORT

Cast in Place Concrete – No. 1

Date:	Tuesday 6-30-09
Time:	7:45 AM to 8:45 AM
Temp:	55 F
Weather:	overcast, drizzle (indoor work)

Met with Dan Simpson of Warren Construction Group, LLC.

Observation Location:

Nine interior footings for steel columns. Refer to drawing S1.

Column footing reinforcing steel inspected. Concrete pour scheduled for a later date.

Elevator pad work not started.

	Satisfactory	Un-Satisfactory	Not Completed	Not Applicable	Comments
Reinforcement Size	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See below
Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Placement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Embed/Anchors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Lap Splices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Hot Weather	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Cold Weather	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Bond Beams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Items	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Items	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Notes:

Excavations meet or exceed specified footing depth and soil appears acceptable.

F2.5 footings: Quantity of reinforcing bars correct and as specified on drawings.

F3.5 footings: Quantity specified on drawing S1 is incorrect. I asked Dan Simpson to provide (2) #4 bars (one each way) at each F3.5 footing.

Signed: David A. Macolini, P.E.

STRUCTURAL NOTES:

FOOTING SCHEDULE

F2.5 = 30" X 30" X 10" CONCRETE FOOTING, W/ (2) #4 BOTH WAYS.
 F3.5 = 42" X 42" X 10" CONCRETE FOOTING, W/ (2) #4 BOTH WAYS.

COLUMN SCHEDULE

C3 = HSS 3 X 3 X 1/4" COLUMN
 C4 = HSS 4 X 4 X 1/4" COLUMN

POST SCHEDULE

P1 = 3 1/2" X 5 1/2" PARALLAM POST
 P2 = (3) 2X4 POST

JOIST SCHEDULE

J1 = 3 1/2" X 11 7/8" T.J. 580
 J2 = 2 5/16" X 11 7/8" T.J. 230

HANGER SCHEDULE (SIMPSON)

2 5/16" X 11 7/8" L-JOIST = IUT3512 FACE MOUNT HANGER
 = MIT3511.88 TOP FLANGE HANGER
 3 1/2" X 11 7/8" L-JOIST = IUT412 FACE MOUNT HANGER
 = MIT411.88 TOP FLANGE HANGER
 3 1/2" X 14" L-JOIST = IUT414 FACE MOUNT HANGER
 = MIT414 TOP FLANGE HANGER

1 1/2" X 11 7/8" LVL = HU11
 3 1/2" X 11 7/8" LVL = HHUS410
 1 1/2" X 14" LVL = HU11
 3 1/2" X 14" LVL = HHUS410

GENERAL NOTE

1. ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE REPORTED TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

DESIGN LOADS

1. BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC 2003)
 2. FLOOR LIVE LOAD = 50 PSF OFFICE USE PLUS 15 PSF PARTITION LOAD, FLOOR DEAD LOAD = 20 PSF.

FOUNDATION NOTES (SEE SUPPORTS)

1. PRESUMPTIVE BEARING CAPACITY 3.000 PSF.
 2. POUR CONCRETE ON COMPACTED EXISTING SOIL.
 3. VERIFY FOUNDERS BEFORE POURING CONCRETE TO SCHEDULE PROJECTION OF REINFORCING.

CONCRETE NOTES

1. CONCRETE MIX DESIGN:
 A. STRENGTH: 3000 PSI @ 28 DAYS
 B. AGGREGATE: 3/4"
 C. MAX. FINES: 5% MAX.
 D. EXTENDED CURE: 9% MAX. @ 90 DAYS
 E. SLUMP: 7" MAX.

REINFORCING BARS SHALL CONFORM TO ASTM A618 GRADE 60.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL FABRICATION, SECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC SPECIFICATION FOR DESIGN FABRICATION AND Erection OF STRUCTURAL STEEL, 9th EDITION, AND THE CODE OF BEST PRACTICES, MARCH 7, 2000.
 2. STRUCTURAL STEEL CHANNELS, PLATES, L-ANGLES SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE.
 3. STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A992 UNLESS NOTED OTHERWISE.
 4. ALL WELDING SHALL CONFORM TO AWS D1.1 LATEST EDITION. ELECTRODES SHALL CONFORM TO AWS ALL COVER NOTES WITH PROPER ROD TO PRODUCE OPTIMUM WELD @ 60W HYDROGEN.
 5. SHOP DRAWINGS TO BE SUBMITTED TO ARCHITECT PRIOR TO FABRICATION.

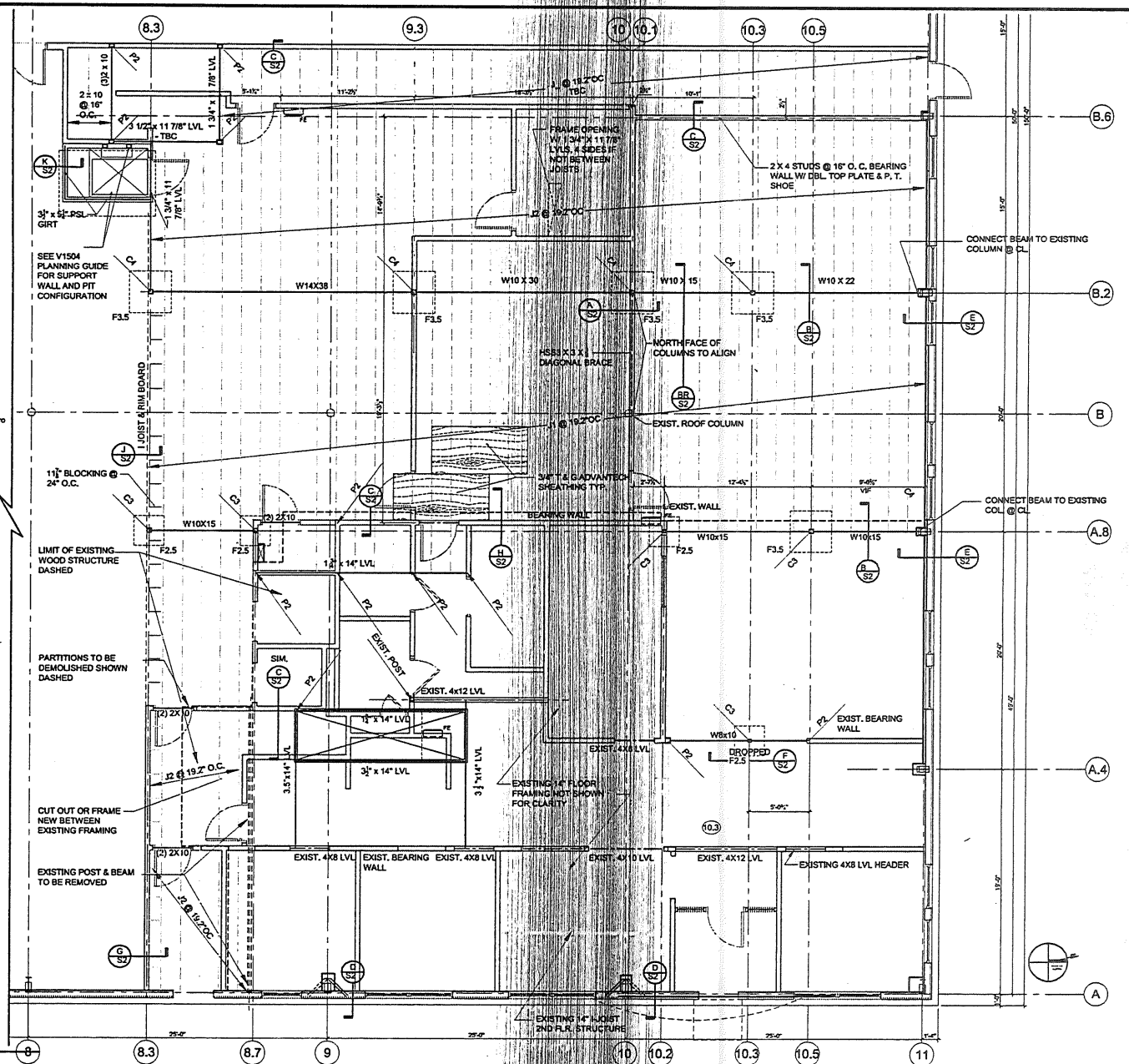
WOOD FRAMING NOTES

1. LUMBER: No. 2, GRADE OR BETTER (SPICE-GRUPP SOUTH O.P.F.) KILN DRIED TO 19 PERCENT MAXIMUM MOISTURE CONTENT. PRESERVATIVE TREATED (PT) LUMBER: No. 1 GRADE OR BETTER SOUTHERN PINE (SP #277) KILN DRIED TO 19 PERCENT MAXIMUM MOISTURE CONTENT. PRESERVATIVE CONTENT = 0.25 PCF MINIMUM.
 2. JOISTS: TRUS JOIST BY HEYER-HAUSER. REFER TO MANUFACTURER'S GUIDE FOR PROPER HANDLING AND INSTALLATION GUIDELINES.
 3. STRUCTURAL COMPOSITE LUMBER (CL) SHALL BE TRUSJOIST SIKOLAM OR PARALLAM (P.L.) REFER TO MANUFACTURER'S GUIDE FOR PROPER HANDLING AND METALLIC CONNECTIONS.
 4. SUBGRADE: 1/2" MINIMUM THICKNESS AND GROOVE ADVANTAGE, GULCH TO FRAMING AND MAILED AS FOLLOWS:
 BEAMS: (1) ROWS 12" MAX @ 24" O.C. @ 24" PEACE
 POSTS: (2) ROWS 12" MAX @ 24" O.C. IN 6A PACE
 5. BUILT-UP BEAMS AND POSTS SHALL BE MAILED AS FOLLOWS:
 BEAMS: (1) ROWS 12" MAX @ 24" O.C. @ 24" PEACE
 POSTS: (2) ROWS 12" MAX @ 24" O.C. IN 6A PACE
 6. WOOD CONNECTION HARDWARE (JOIST HANGERS, STRAPS, ETC) SHALL BE AS INDICATED ON THE DRAWINGS AND SCHEDULE. MANUFACTURED BY SIMPSON STRONG-TIE, UNLESS NOTED OTHERWISE. ALL CONNECTION HARDWARE SHALL BE GALVANNEAL (HOT DIP) CONNECTION HARDWARE USED IN CONSTRUCTION WITH PRESERVATIVE TREATMENT SHALL MEET THE FOLLOWING:
 2X4X GALVANNEAL MEETING Q185 HOO PER ASTM A85 AND ASTM 163 FASTENERS
 FASTENERS SHALL MATCH WATERMARKING OF CONNECTION HARDWARE, UNLESS NOTED BY MANUF. SPECIFICATIONS.
 REFER TO MANUFACTURER'S LITERATURE FOR PROPER HANDLING AND INSTALLATION GUIDELINES.

REFER TO MANUFACTURER'S LITERATURE FOR PROPER HANDLING AND INSTALLATION GUIDELINES.

REFER TO MANUFACTURER'S LITERATURE FOR PROPER HANDLING AND INSTALLATION GUIDELINES.

1 SECOND FLOOR FRAMING PLAN
 S1-1



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EnviroLogix
 RIVERSIDE CAMPUS
 530 RIVERSIDE INDUSTRIAL PARKWAY
 PORTLAND, MAINE

TRH ARCHITECTS
 50 MIDDLE STREET
 PORTLAND MAINE 04101
 TELEPHONE 207 775 6141
 ARCHITECTURE PLANNING

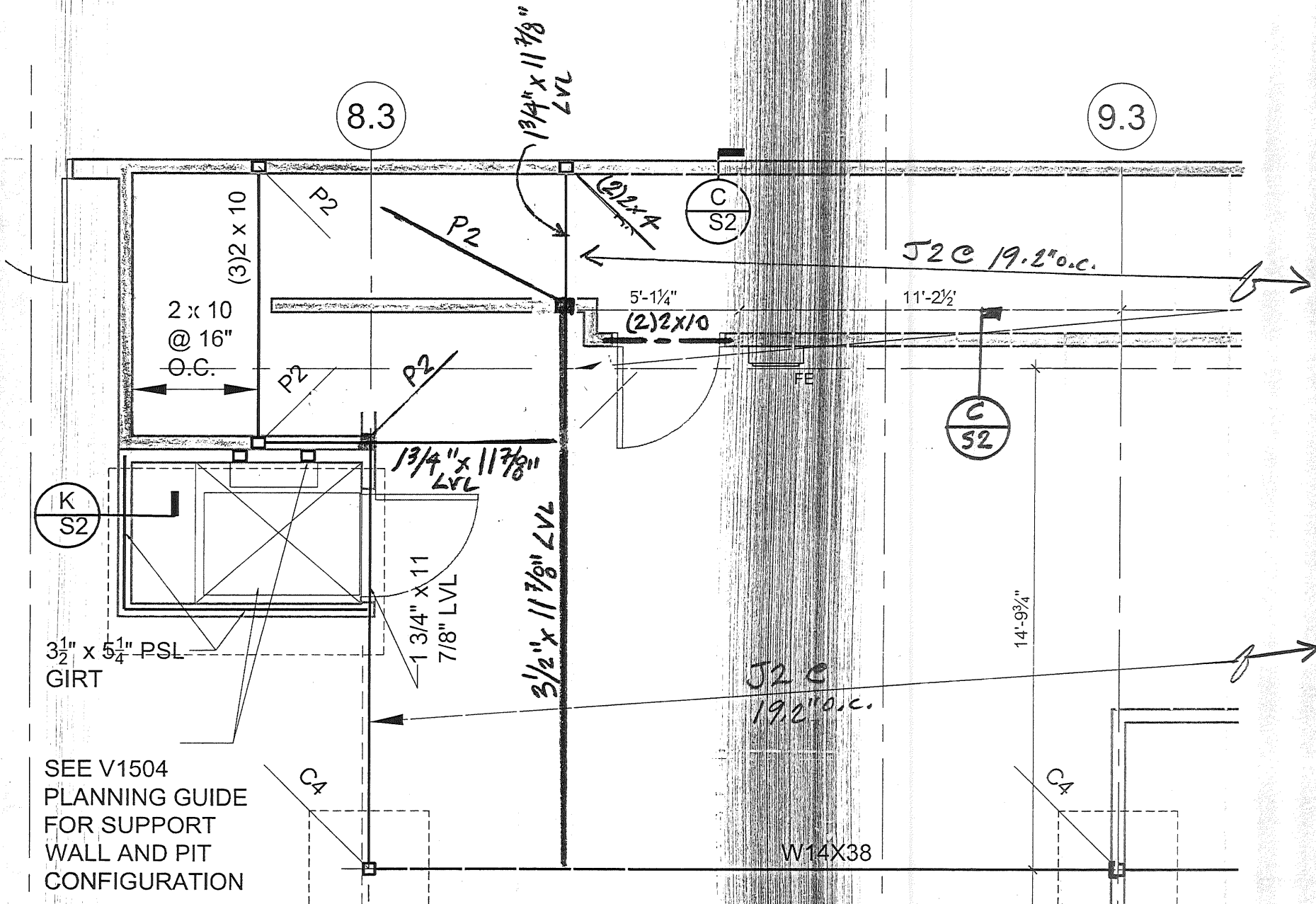
CONSULTANTS:
 CIVIL ENGINEER
 ELECTRICAL ENGINEER
 MECHANICAL ENGINEER
 PLUMBING ENGINEER
 STRUCTURAL ENGINEER
 ARCHITECT

REVISIONS:
 FOR PERMITTING - 02200

DATE: 7/17/09
 PROJECT NO.: 0802
 DRAWN BY: DAM
 CHECKED BY: DAM
 SCALE: 1/4"=1'-0"

SHEET TITLE:
 2ND FLOOR FRAMING PLAN

S1



SEE V1504
 PLANNING GUIDE
 FOR SUPPORT
 WALL AND PIT
 CONFIGURATION

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 structural engineers, inc.

75 York Street
 Portland, ME 04101-4701
 info@beckerstructural.com

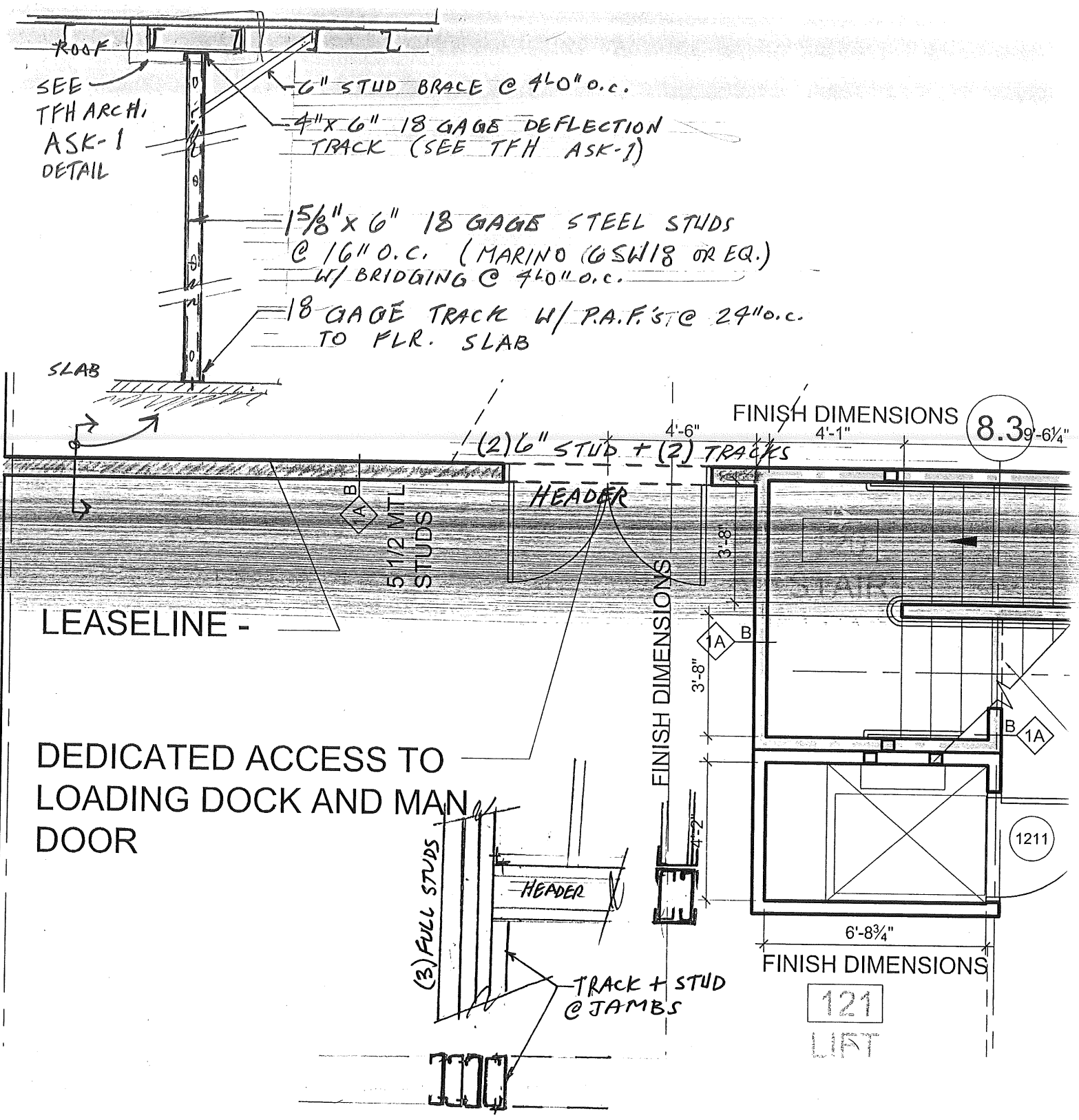
Tel 207-879-1838
 Fax 207-879-1822
 www.beckerstructural.com

EnviroLogix

TFH Architects
 Warren Construction Group

7-22-09

SSK-11



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SSK-2

7-22-09

EXIST. GIRT ABOVE DOOR

2" X 2" X 6" 16 GAGE ANGLE
W/ (3) #10 SCREWS EACH LEG

8" TRACK & STUD POST @ BOTH JAMBS

8" 20 GAGE STUD

JAMB

8" 20 GAGE TRACK

5/8" TYPE 'X' GWB WRAP AROUND COLUMN

8" 20 GAGE STUD @ DOOR HEADER

CENTER DOOR W/ I PANEL MODULE

1231

B.6

4'-8"

50'-0"

150'-0"

EXIST. GIRT @ DOOR

2" X 2" X 6" 16 GAGE ANGLE
TOP & BOTTOM W/ (3) #10 SCREWS EACH LEG

JAMB

8" TRACK & STUD POST (SEE ABOVE)

CUT OUT SECTION OF GIRT & WALL PANEL FOR DOOR

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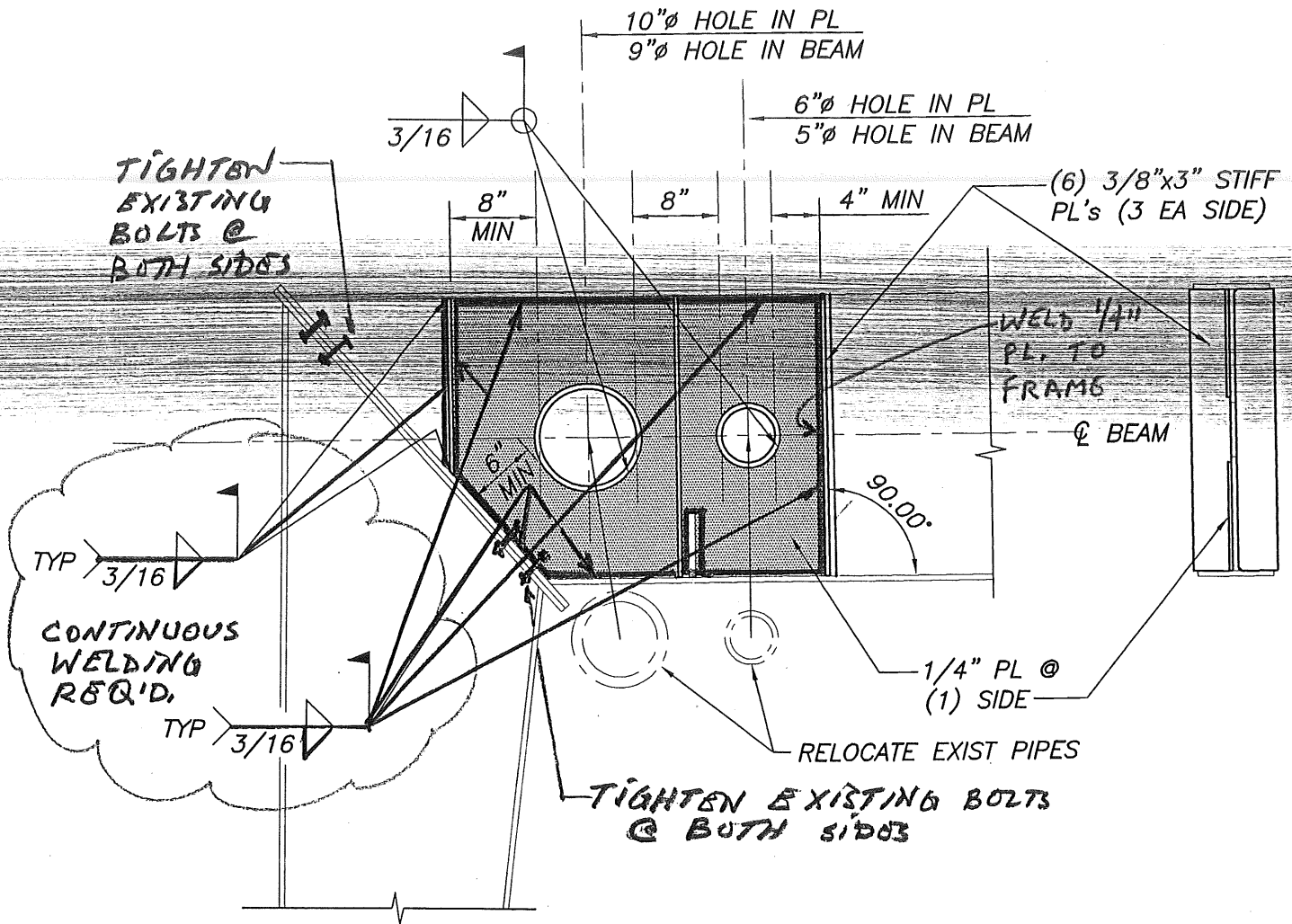
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SSK-3

7-22-09



LINE 9A

D

S2

NEW HOLES IN EXIST FRAME DETAIL

3/4" = 1'-0"

COMPLETE WELDING @ NEW 1/4" PL. SIDE OF FRAME

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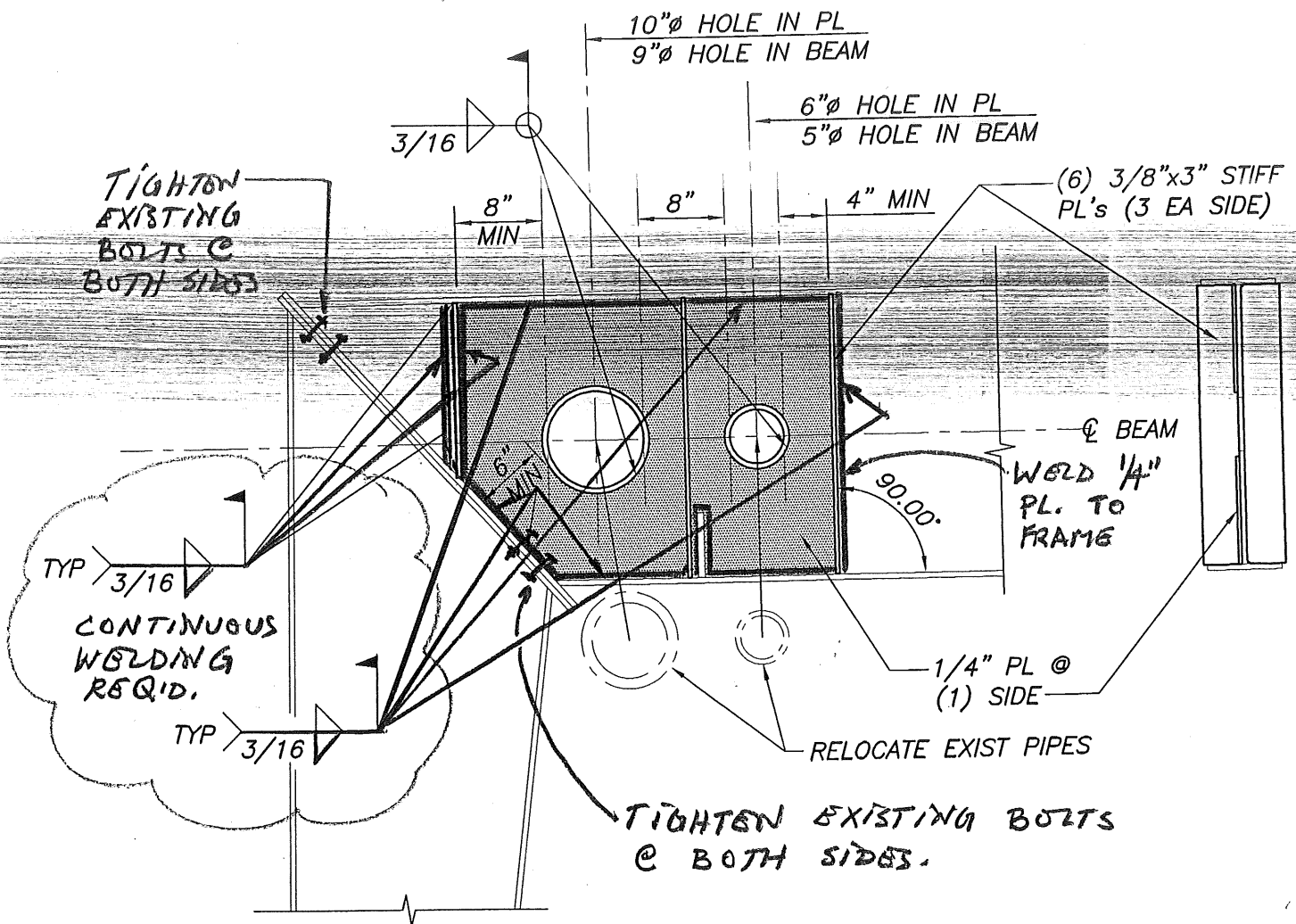
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Warren Construction Group

7-23-09

SSK-4



LINE 10A
 D
 S2

NEW HOLES IN EXIST FRAME DETAIL

3/4" = 1'-0"

COMPLETE WELDING @ NEW 1/4" PL. SIDE OF FRAME

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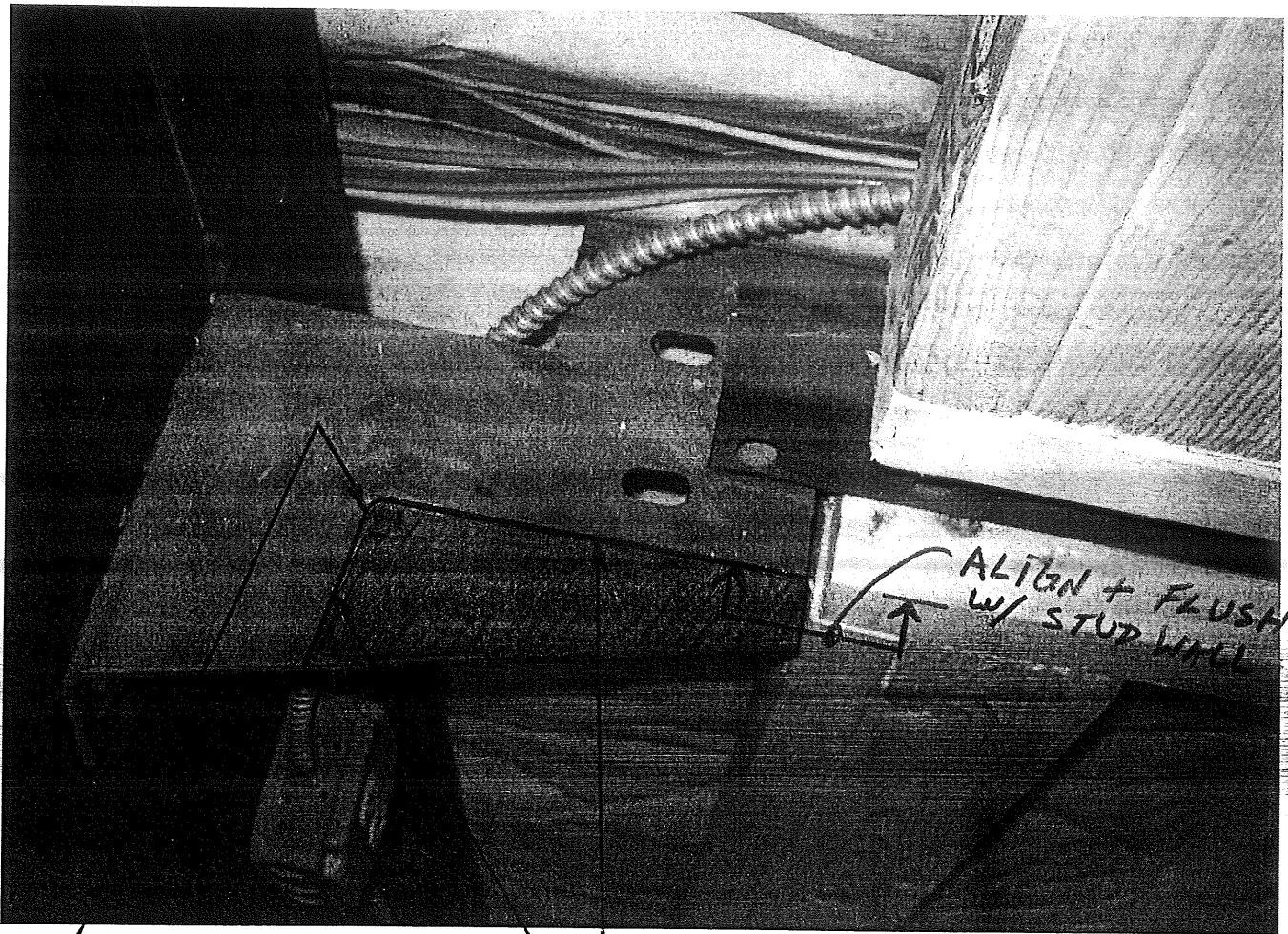
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Warren Construction Group

7-23-09

SSK-5



DRILL 1/2" DIAM.
HOLE TO START

CUT & REMOVE SHADED
PORTION OF PLATE @
BOTH SIDES OF COLUMN

○ 2ND FLR. COL. + GIRT CONNECTION

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SSK-6

7-31-09

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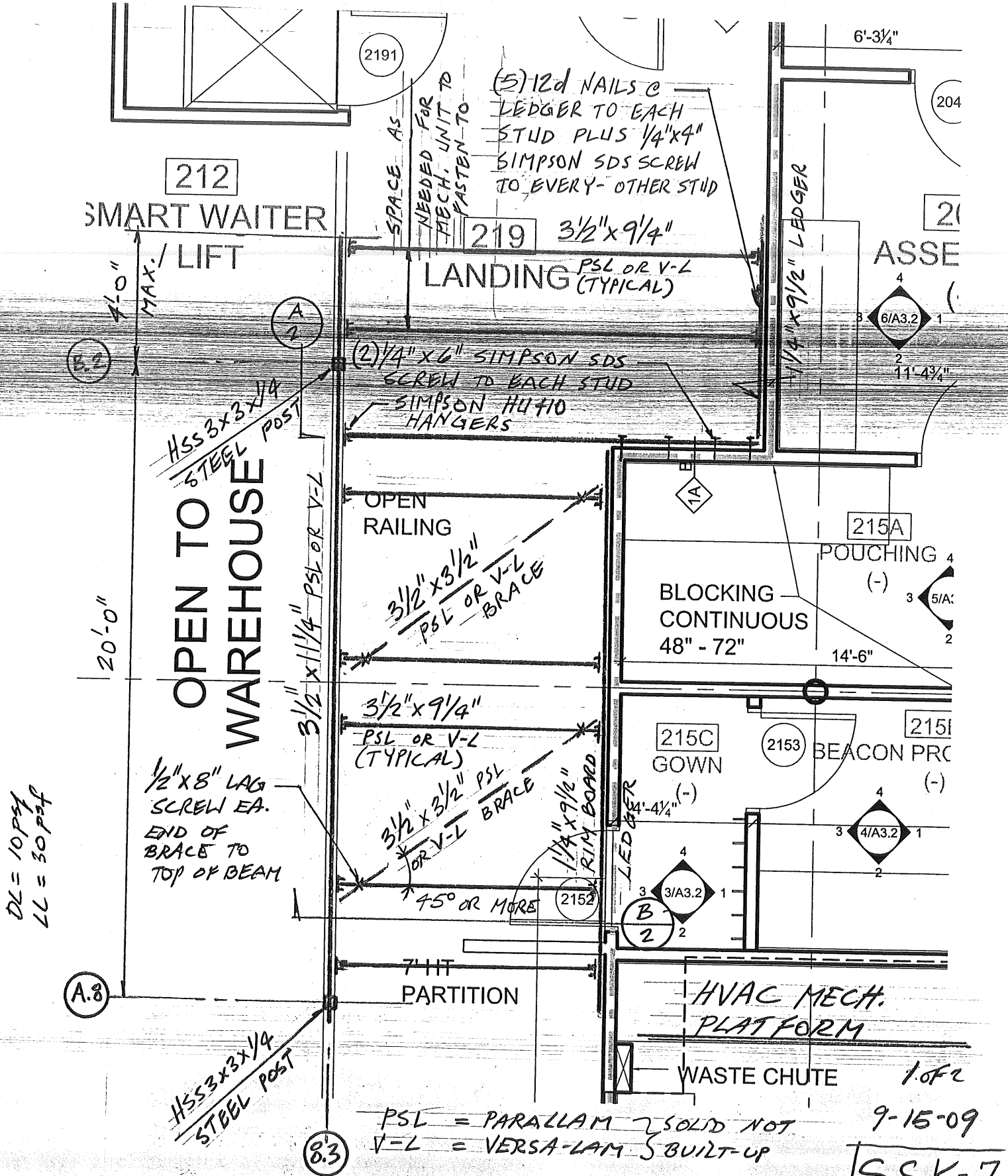
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9-15-09

SSK-7

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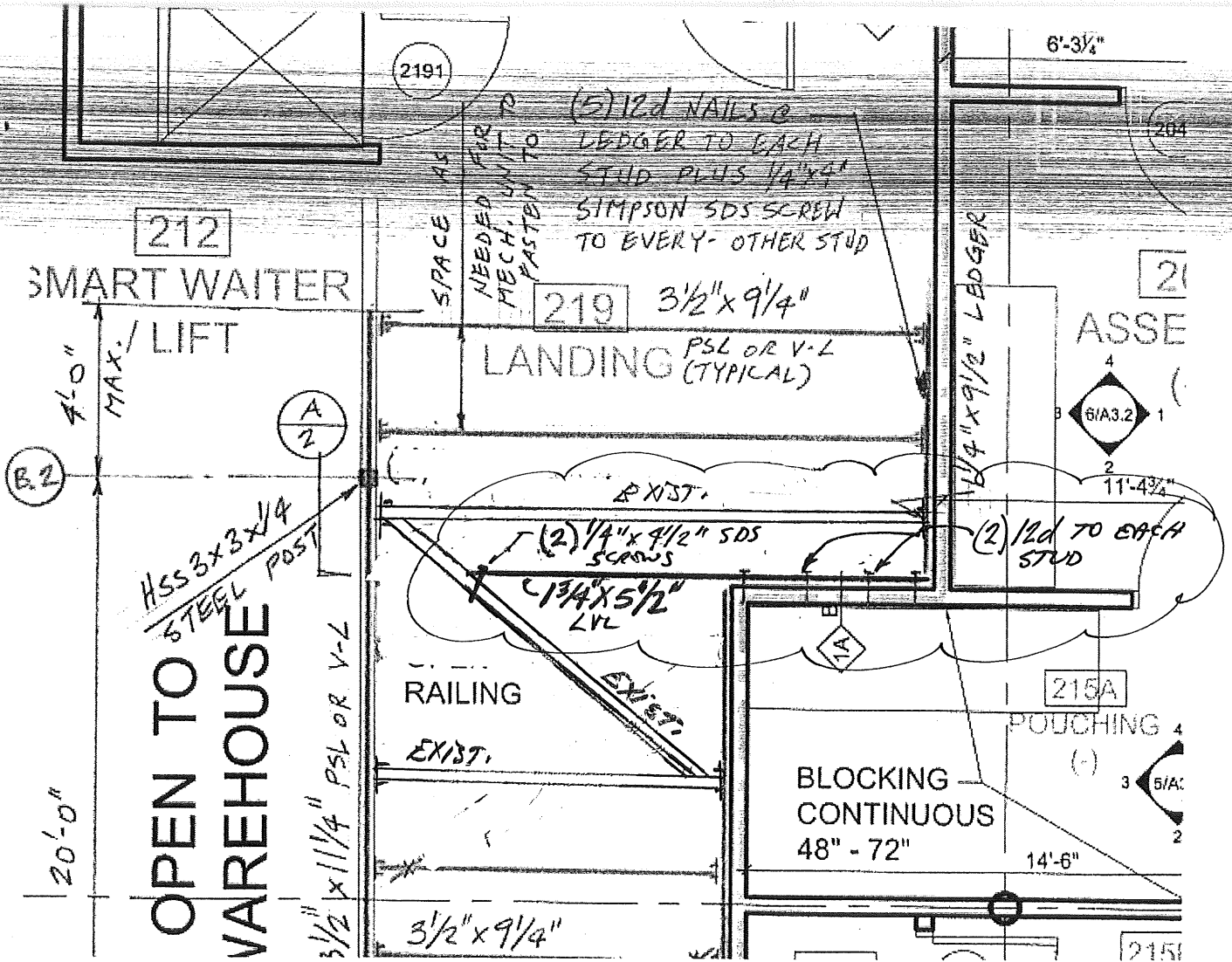
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Warren Construction Group



10-23-09

SSK-7A

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Tel. 207-879-1838 ■ Fax 207-879-1822

TFH ARCHITECTS
WARREN CONST.

Project: ENVIROLOGIX

W.O. 2119

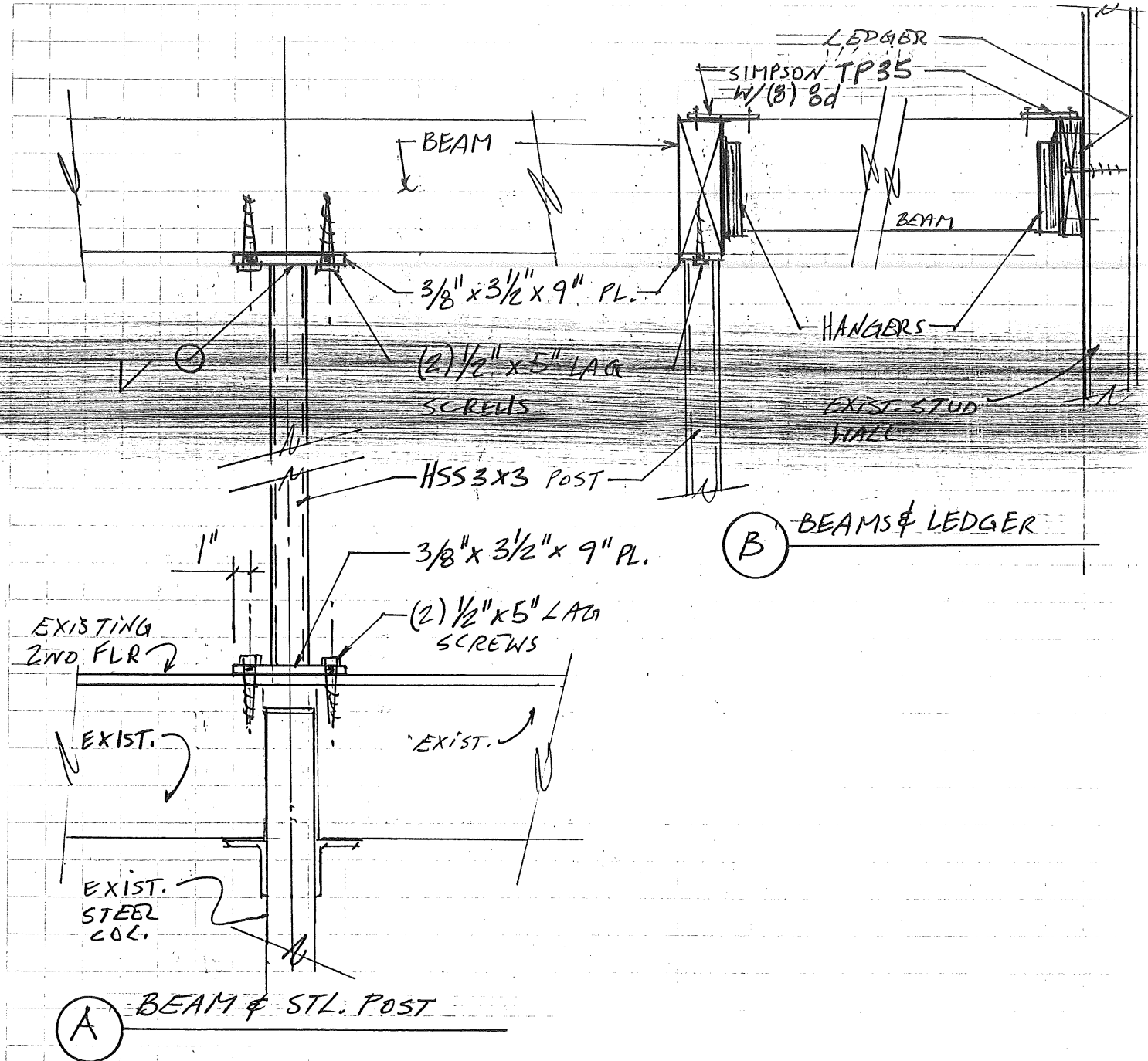
Sheet 2 Of 2

Calculated By: DAM

Date 9-15-09

Checked By: _____

Date _____



SSK-8

SSK-9

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Tel. 207-879-1838 ■ Fax 207-879-1822

TFH ARCHITECTS
WARREN CONST.

Project: ENVIRO 6587

W.O. 2119

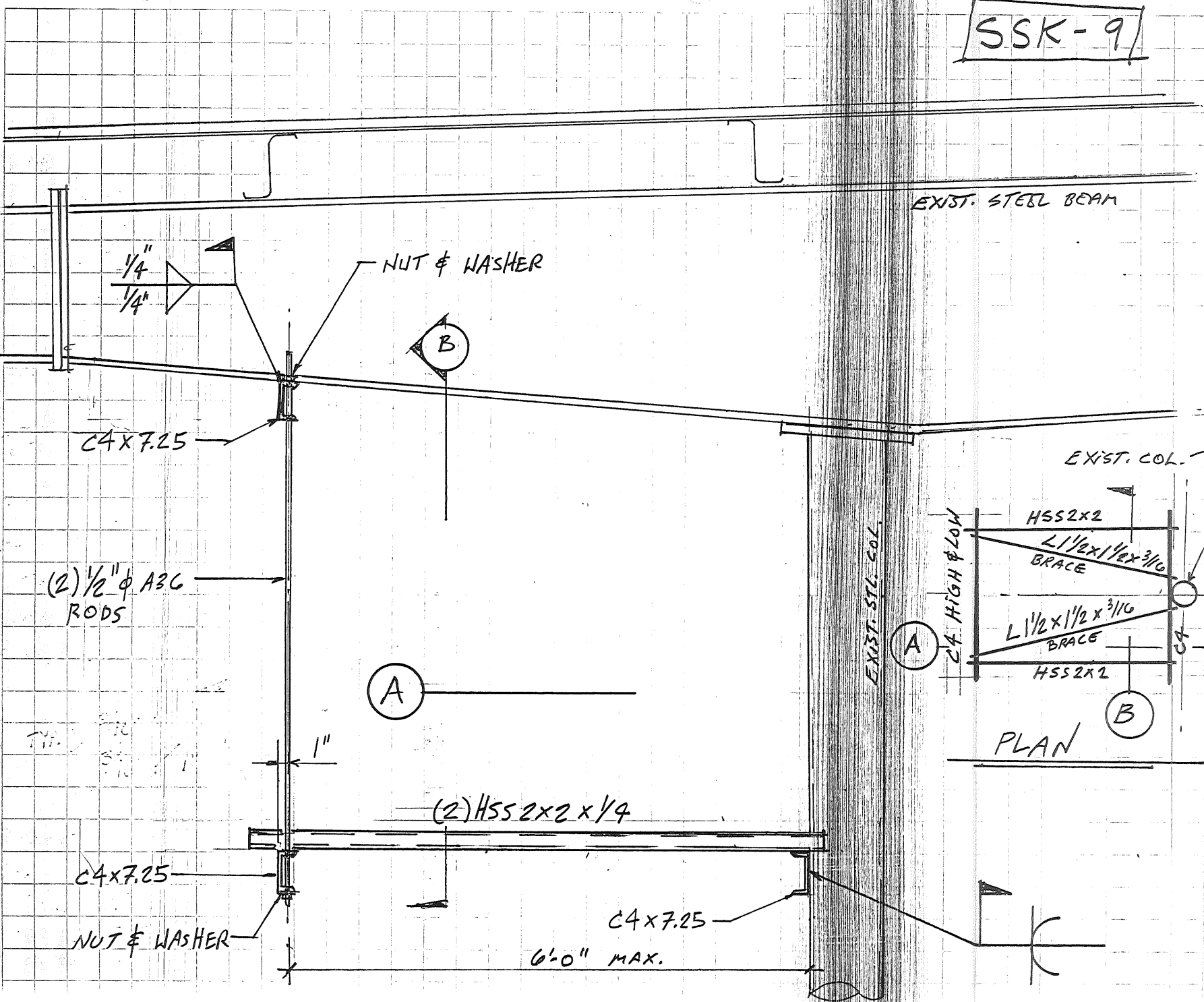
Sheet 1 of 2

Calculated By: DAW

Date 9-15-09

Checked By:

Date



BECKER

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Tel. 207-879-1838 ■ Fax 207-879-1822

TFH ARCHITECTS
WARREN CONST.

Project ENVIRO LOBBY

W.O. 2119

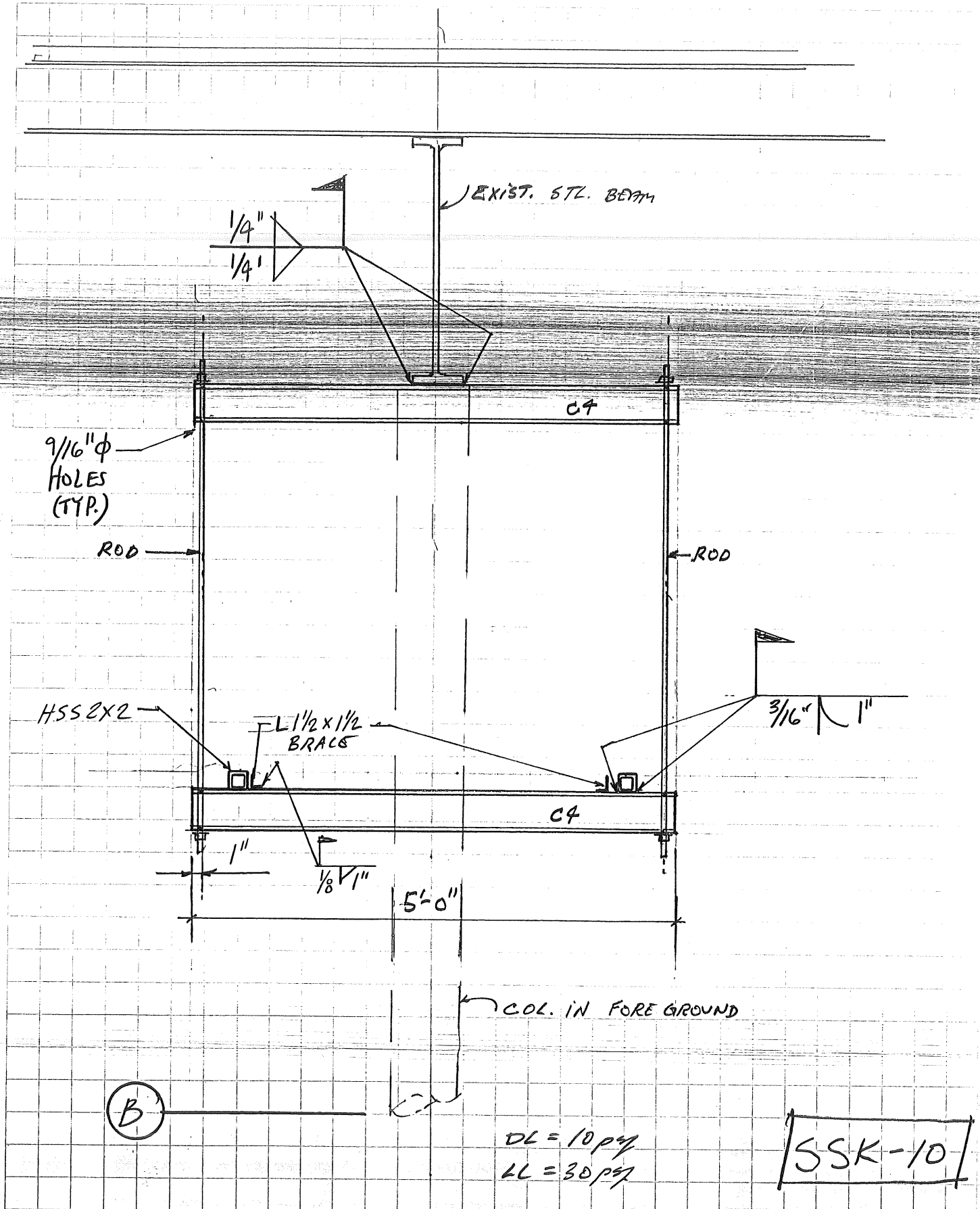
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Date 9-15-09

Checked By: _____

Date _____



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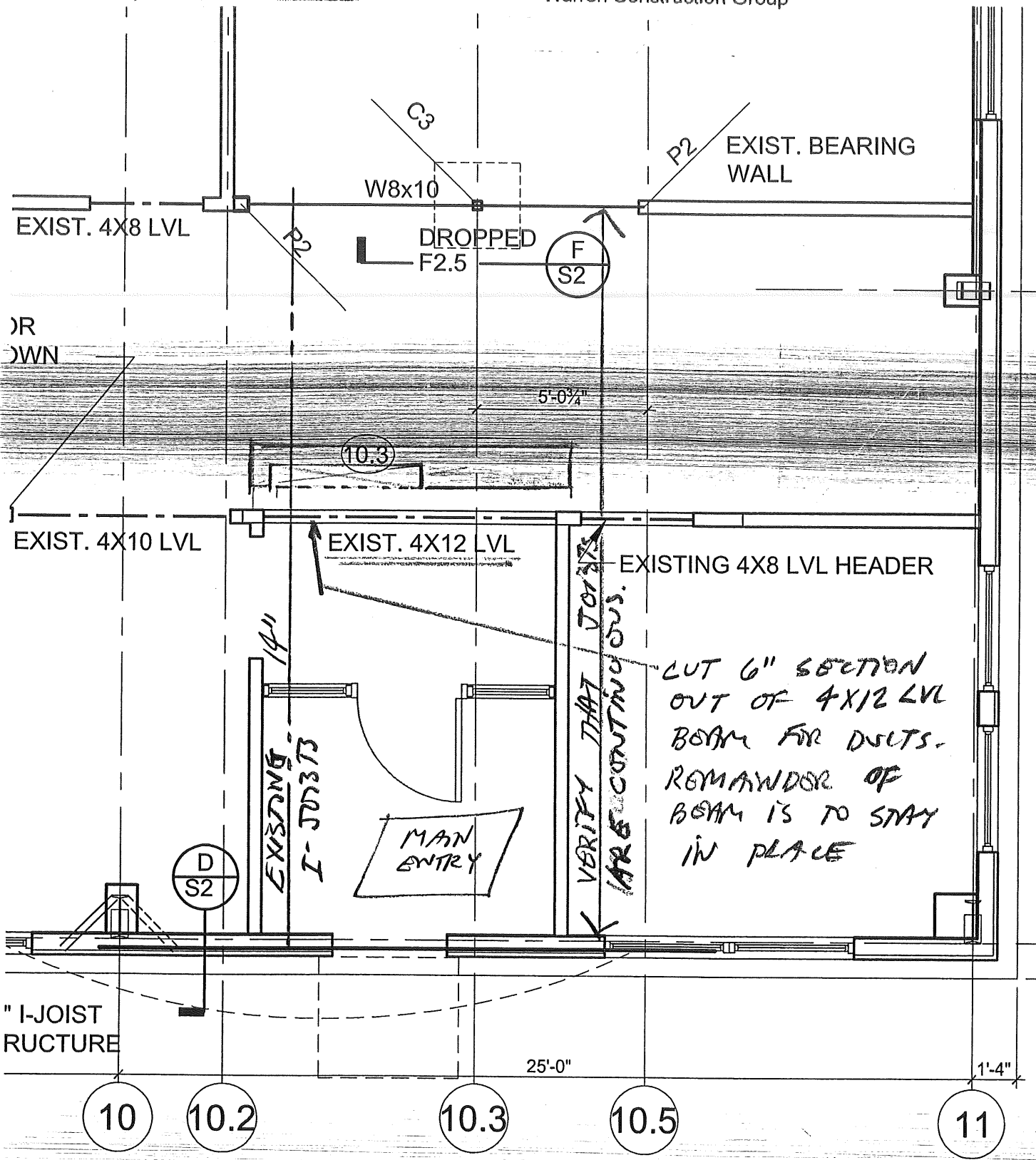
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EnviroLogix

TFH Architects
Warren Construction Group



10-23-09
SSK-11

218



(3) 2x10

2x10 @ 24" o.c.

BLOCKING @ MIDSPAN

2x8 @ 24" o.c.

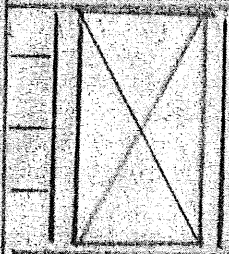
(3) 2x10

SOFFIT

(2) 2x8 HOR

2x10 @ 24" o.c.

(3) 2x10



2x8 @ 24" o.c.

(3) 2x10

HANGING 2x4 SOFFIT

SOLID BLOCKING @ MIDSPAN

201

PART PLAN - CLG FRMG

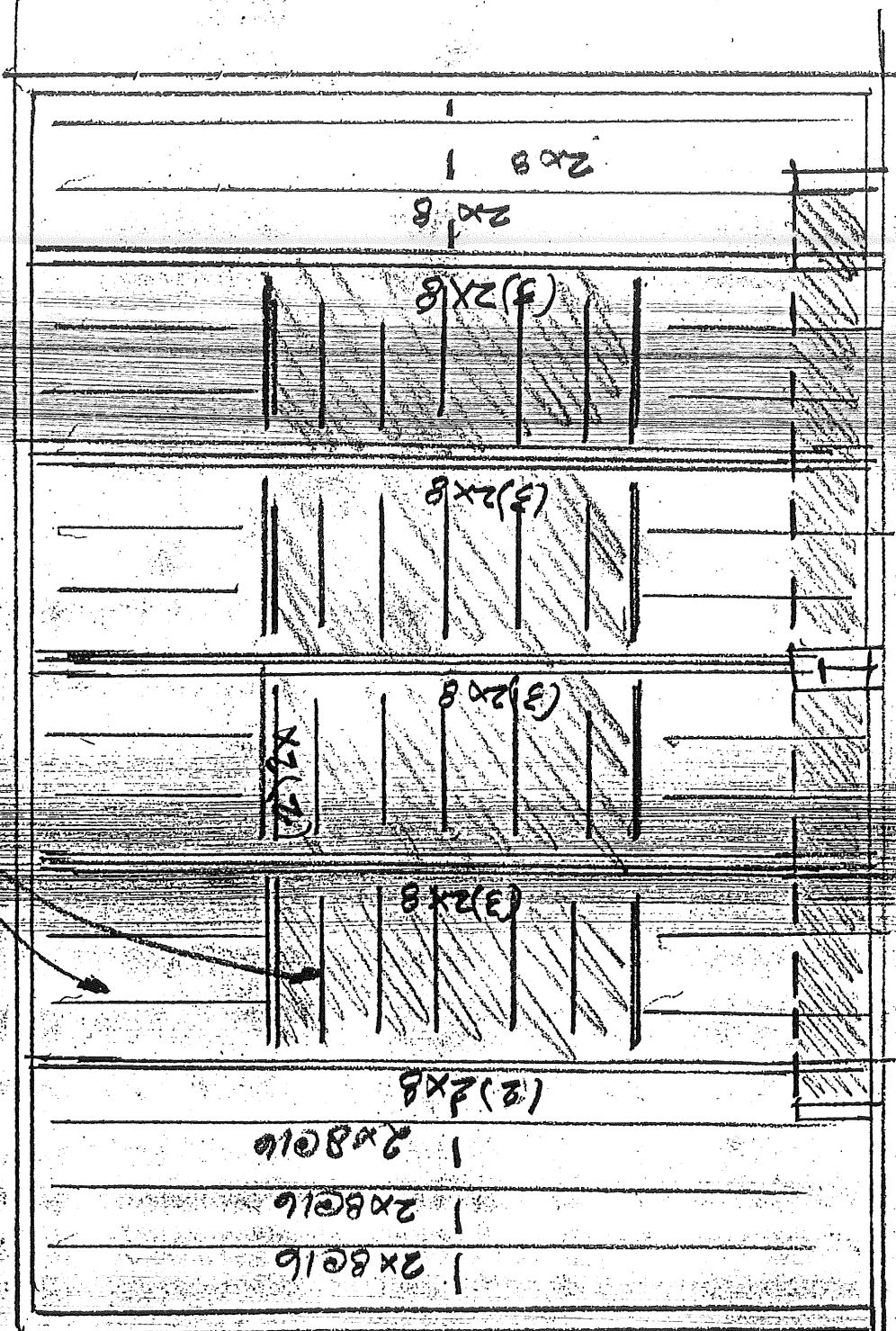
REVISED 8-19-09

RM 201 SIMILAR W 2x8 @ 16" PROVIDE SOLID BLOCKING @ MIDSPAN.

2x10 @ 24" o.c.

3
1
2x8 @ 16"
2x8
2x8 @ 16"

2x6 @ 2x8



CUG PLUMB RM 208

PROVIDE SOLID BLOCKING @ MIDSPAN OF 2x8 FRMG.



Corporate Offices

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

seeMIX II Mix Report
 304110

Strength Compressive: 3,000 psi
 7/1/2009

Contractor : WARREN CONSTRUCTION
 Project : 3000 PSI SPEC MIX
 Source of Concrete : DRAGON PRODUCTS COMPANY
 Placement : CHUTE

- Reviewed
- Rejected
- Submit Specific Item:
- Furnish as Corrected
- Revise and Resubmit

This review is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with the requirements of the plans and specifications. Approval of a specific item shall not include approval of an assembly of which the item is a component. Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction; coordination of his or her Work with that of all other trades; and for performing all work in a safe and satisfactory manner.

Becker Structural Engineers, Inc.

Weights per Cubic Yard	(Saturated, Surface Dry)		
	Quantity	Density	Yield, ft ³
DRAGON, TYPE II, lb	384	3.150	1.95
LAFARGE, NEWCEM, lb	96	2.820	0.55
Water, lb	265	1.000	4.25
3/4" QUARRY STONE, ASTM C-33, lb	1,800	2.700	10.68
FINE AGGREGATE, ASTM C-33, lb	1,373	2.650	8.31
BASF: GLENIUM 7500, oz (US)	7.2	1.000	0.01
BASF: AE-90, oz (US)	2.4	1.000	0.00
Total Air, %	5.0 ± 1.0		1.36
		TOTAL	27.10

Water/Cement Ratio, lbs/lb 0.55
 Slump, High, in 4.00
 Low, in 2.00
 Concrete Unit Weight, pcf 144.61
 Yield, % 100.4
 Exposure Condition : Severe exposure

NEWCEM PERCENTAGE MAY BE ADJUSTED FOR AMBIENT TEMP VARIATIONS

Prepared by : *[Signature]*
 TECHNICAL SERVICES

WARREN CONSTRUCTION GROUP, LLC DOCUMENT REVIEW	
Project/location	Endiologix - Portland
Submital no.	1-0300-1
<input checked="" type="checkbox"/> Action submittal	<input type="checkbox"/> Information submittal only
Reviewed by	Jeff Becker
Date of contractor's review	7-1-09
<input checked="" type="checkbox"/> Reviewed	<input type="checkbox"/> Approved
<input type="checkbox"/> Approved as noted	
This review was performed to determine general conformance with the Contract Documents. Modifications or comments made on the submittal during review do not relieve the subcontractor from compliance with requirements of the drawings and specifications. Approval of specific items does not constitute approval of assembly related to that item. The subcontractor is responsible for quantities and dimensions to be confirmed at the jobsite, coordination of the work, and for	

7/1/2009

DRAGON
 PRODUCTS COMPANY



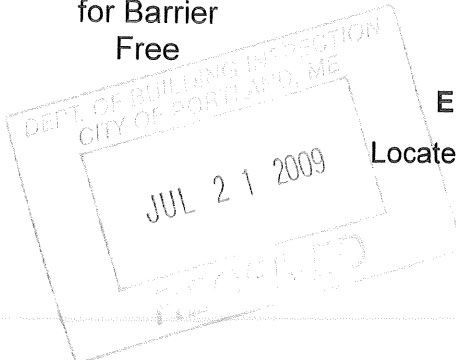
State of Maine
 Department of Public Safety
 Construction Permit



Reviewed
 for Barrier
 Free

18519

Sprinkled
 Sprinkler Supervised



ENVIROLOGIX INTERIOR RENOVATIONS

Located at: 530 RIVERSIDE INDUSTRIAL PARKWAY
PORTLAND
 Occupancy/Use: BUSINESS/OTHER

370A-A-12

Permission is hereby given to:

ENVIROLOGIX
 PETER JOHNSON
 500 RIVERSIDE INDUSTRIAL PA
 PORTLAND, ME 04103

to construct or alter the afore referenced building according to the plans hitherto filed with the Commisioner and now approved.

No departure from application form/plans shall be made without prior approval in writing. This permit is issued under the provision of Title 25, Chapter 317, Section 2448 and the provisions of Title 5, Section 4594 - F.

Nothing herein shall excuse the holder of this permit for failure to comply with local ordinances, zoning laws, or other pertinent legal restrictions. Each permit issued shall be displayed/available at the site of construction.

This permit will expire at midnight on the 15 th of January 2010

Dated the 16 th day of July A.D. 2009

Commissioner

Copy-3 Code Enforcement Officer

Comments:

Code Enforcement Officer
 PORTLAND, ME