

02 0739

THIS IS NOT A PERMIT/CONSTRUCTION CANNOT COMMENCE UNTIL THE PERMIT IS ISSUED

**Building or Use Permit Pre-Application
Attached Single Family Dwellings/Two-Family Dwelling
Multi-Family or Commercial Structures and Additions Thereto**

In the interest of processing your application in the quickest possible manner, please complete the Information below for a Building or Use Permit.

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

Location/Address of Construction (include Portion of Building): 601 Danforth St.: SE pad			
Total Square Footage of Proposed Structure 58,292		Square Footage of Lot 1,263,240	
Tax Assessor's Chart, Block & Lot Number 7A-1 003 Chart# Block# Map 72 Lot# 3A, 7A, 15A		Owner: Maine Port Authority	Telephone#: 772-3254
Owner's Address: 601 Danforth Street Portland, ME 04102		Lessee/Buyer's Name (If Applicable) Merrill Marine Terminal Services Buyer for ME Port Authority	Cost Of Work: Fee \$ 1,700,000 \$ 40,224 11,923
Proposed Project Description:(Please be as specific as possible) Commercial and industrial marine cargo warehouse constructed on an easement given by Merrill Industries, Inc.: Vinyl cover over galvanized tubular steel frame, similar to four other buildings on site.			
Contractor's Name, Address & Telephone Self			Rec'd By
Current Use: stockpile pad		Proposed Use: warehouse	

Separate permits are required for Internal & External Plumbing, HVAC and Electrical installation.

- All construction must be conducted in compliance with the 1996 B.O.C.A. Building Code as amended by Section 6-Art II.
- All plumbing must be conducted in compliance with the State of Maine Plumbing Code.
- All Electrical Installation must comply with the 1996 National Electrical Code as amended by Section 6-Art III.
- HVAC (Heating, Ventillation and Air Conditioning) installation must comply with the 1993 BOCA Mechanical Code.

You must include the following with you application:

- 1) A Copy of Your Deed or Purchase and Sale Agreement
- 2) A Copy of your Construction Contract, if available
- 3) A Plot Plan/Site Plan

** IF Available also
Submit Plans on
ADOBE or CAD Format*

Minor or Major site plan review will be required for the above proposed projects. The attached checklist outlines the minimum standards for a site plan.

4) Building Plans

Unless exempted by State Law, construction documents must be designed by a registered design professional.

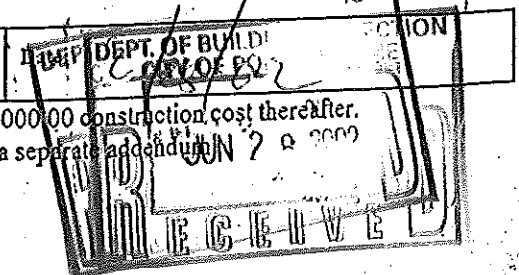
A complete set of construction drawings showing all of the following elements of construction:

- Cross Sections w/Framing details (including porches, decks w/ railings, and accessory structures)
- Floor Plans & Elevations
- Window and door schedules
- Foundation plans with required drainage and dampproofing
- Electrical and plumbing layout. Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment (air handling) or other types of work that may require special review must be included.

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/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:



Building Permit Fee: \$30.00 for the 1st \$1000. cost plus \$6.00 per \$1,000.00 construction cost thereafter.
Additional Site review and related fees are attached on a separate addendum.



RUBB, INC.
P.O. Box 711, 1 Rubb Lane
Sanford, Maine 04073 USA
Tel: 207 324 2877
Fax: 207 324 2347
E-mail: info@rubbusa.com

July 22, 2002

Mr. Michael Nugent
Inspection Services Manager
City of Portland
389 Congress Street
Portland, ME 04101

Re: Merrill #6 Rubb Structure

By Telefax: (207) 874-8716

Dear Mike:

In accordance with section 1705 of 1999 BOCA Building Code we are providing the following for special inspection:

Rubb, Inc. is ISO 9001 certified and SGS International Certification Services, Inc. (Meadows Office Complex, 301 Route 17 North, Rutherford, NJ 07070) periodically audits our facility for compliance. The ISO 9001 program incorporates the full range of issues from design to the completed, delivered structure. Our Quality Assurance Manual and Quality Procedures assure that our structures meet all required standards and codes. All of the inspections are performed by qualified Rubb personnel.

- **Fabrication:** Our welders are certified to AWS D1.1 and D1.3. All welds are visually inspected.
- **Material Receiving:** All structural steel and bolts are verified to meet requirements.
- **Erection:** Installation does not require any structural steel field welding. All bolting is performed to meet the 9th Edition of the ASIC Steel Manual. All bolts that require torquing are listed on the construction drawings and use the turn-of-the-nut method from the 9th Edition of the AISC Steel Manual.

If any additional information is required please let us know. I can be reached at 1-800-289-7822.

Sincerely,
Rubb, Inc.

Gary E. Sutryn, P.E.
Chief Engineer

WRubb2\documents\GARYNugent, Michael 7-22-02.hwp



AN INTERNATIONAL COMPANY

RUBB BUILDINGS LTD.
Tel: +44 191 482 2211
Fax: +44 191 482 2510

RUBB MOYOR A/S
Tel: +47 55 316002
Fax: +47 60 317510



Certification No. US270897

GAGNON ENGINEERING, INC.
Structural Consultants

Merrill's Marine Terminal
601A Danforth Street
Portland, Maine 04102-3903

July 22, 2002

Att: P.D. Merrill

Re: Proposed Rubb Building, BOCA 1705, Special Inspections

- a) Prepared Fill (1705.7)
- b) Concrete Construction (1705.4)

Dear P. D.:

This letter serves as "a statement of special inspections" in accordance with BOCA 1705.1.1. Please refer to Contract Plans for a complete list of materials, quality and testing requirements. Individuals, approved agencies, and firms intended to be retained for such inspections (BOCA 1705.1.1), are as follows:

I. Prepared Fill (1705.7)

- o Gagnon Engineering & Cianbro Corporation will inspect Site Preparation prior to the installation of fills and/or Concrete foundations, as appropriate.
- o S.W. Cole Engineering (Gray office) will be used to test proposed Gravel (and Selected Fills) Gradations prior to installation of any proposed fills; Gagnon Engineering will determine Contract Compliance of such proposed Gravels (and Selected Fills) prior to their use.
- o S.W. Cole Engineering will measure in-place densities of Approved Gravels (& Selected Fills) as they are installed.
- o Gagnon Engineering will evaluate the compliance of installed compacted Gravels (and Selected Fills.)

II. Concrete Construction (1705.4)

- o Gagnon Engineering & Peter Craig (J.K. Sales) will review proposed Concrete Mix Designs.
- o Gagnon Engineering will inspect prepared Reinforcing in advance of all Concrete Placements.
- o Gagnon Engineering & Cianbro Corporation will inspect Concrete Formwork.
- o S.W. Cole Engineering will Sample Fresh Concrete for Slump, Air, and Temperature, and make Fresh Concrete Test Cylinders, and later Break them for Compressive Strength evaluation.
- o Gagnon Engineering will inspect critical Concrete Placements, and randomly inspect other Concrete Placements.
- o Gagnon Engineering will randomly inspect the effectiveness of Concrete Curing Methods.

P.D. Merrill (Merrill's Marine Terminal)

July 22, 2002

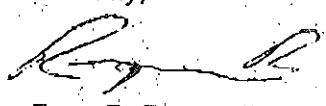
Page two of two

Report Requirements (1705.1.2)

All testing operations will be documented, and filed with Gagnon Engineering. Reports will be sent to the Portland Code Enforcement Office in a timely manner. Compliance discrepancies will be reported to Cianbro Corporation for correction and/or appropriate remedial action. Non-compliant, non-corrected installed work will be brought to the attention of the Portland Code Enforcement Office.

I trust that this information adequately describes the projects compliance with BOCA Special Inspections. Please call if there is any need for clarification or, if there are any related issues.

Sincerely,

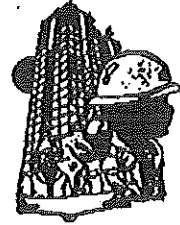
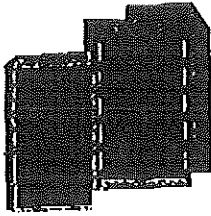


Roger R. Gagnon, P.E.

CC: Michael Nugent (Portland)
Lou Campbell (Cianbro)

File





**CITY OF PORTLAND
BUILDING CODE CERTIFICATE**
389 Congress St., Rm 315
Portland, ME 04101

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

FROM: Gary Sutryn P.E.

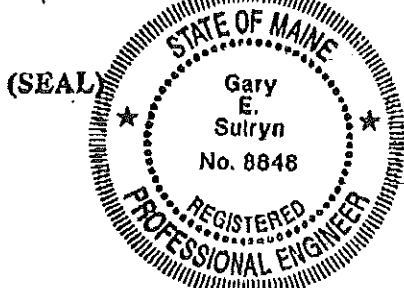
RE: Certificate of Design

DATE: 7/03/02

These plans and/or specifications covering construction work on:

Merrill #6 Tension Membrane Structuring

Have been designed and drawn up by the undersigned, a Maine registered architect/engineer according to the **BOCA National Building Code/1999 Fourteenth Edition**, and local amendments.



Signature *Gary E. Sutryn*

Title Chief Engineer

Firm Rubb Inc.

Address P.O. Box 711, 1 Rubb Lane Sanford, ME. 04073

As per Maine State Law:

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



**CITY OF PORTLAND
ACCESSIBILITY CERTIFICATE**

Designer: Gary Sutryn


Address of Project Merrill Industries, 601A Danforth St. Portland, ME.

Nature of Project Merrill # 6 : Tension Membrane Structure

Date 7/10/02

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.

(SEAL)

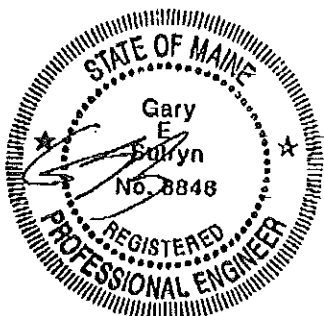
Signature 

Title Chief Engineer

Firm Rubb, Inc.

Address P.O. Box 711, 1 Rubb Lane
Sanford, ME. 04073

Telephone (207)324-2877



Mike - Please put this
with the Rubb Bldg
Permit - 601 Danforth

MERRILL

Since 1929

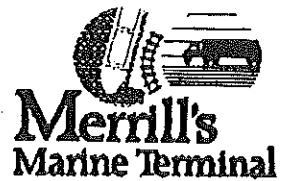
Cargo
Transport
Specialists

Marge

Via Fax

To: City of Portland Planning Board
Attn: Marge Schmuckal, Zoning Administrator
From: Susan Queen for P.D. Merrill
Date: 8 July 2002
Re: Transmittal

Please find following letter dated May 14, 2002 from Jaimey Caron, Chair, Portland Planning Board regarding Warehouse Construction CBL 072-A003001.



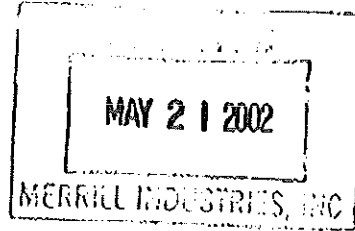
601A Danforth Street
Portland, Maine USA
04102-3903

Tel: 207-772-3254
Fax: 207-772-3156

CITY OF PORTLAND, MAINE
PLANNING BOARD

756-8258

Jaimey Caron, Chair
Deborah Krichels, Vice Chair
Mark Malone
Orlando E. Delogu
Sarah Luck
Kevin Deal
Lee Lowry III



May 14, 2002

P.D. Merrill
Merrill Industries
601A Danforth St.
Portland, ME 04102-3903

RE: Warehouse Construction

CBL: 072-A003001

Dear Mr. Merrill:

On April 23, 2002, the Portland Planning Board voted unanimously (7-0) to approve the site plan for construction of a 53,200 sq.ft. warehouse and 5,092 sq.ft. truck shelter at 601A Danforth Street. The approval also included Site Location of Development review, as authorized by the Maine Department of Environmental Protection. The approval was granted for the project with the following condition:

- i. that the requirements, as set forth in Steve Bushey's memo dated April 19, shall be addressed by the applicant prior to issuance of a building permit.

The approval is based on the submitted site plan and the findings related to site plan review standards as contained in Planning Report #24-02 and Planning Board memorandum dated April 23, 2002, which are attached.

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

1. While no performance guarantee will be required, an inspection fee payment of \$300.00 and 7 final sets of plans must be submitted to and approved by the Planning Division and Public Works prior to the release of the building permit. If you need to make any modifications to the approved site plan, you must submit a revised site plan for staff review and approval.
2. The site plan approval will be deemed to have expired unless work in the development has commenced within one (1) year of the approval or within a time period agreed upon in writing by the City and the applicant. Requests to extend approvals must be received before the expiration date.

3. Prior to construction, a preconstruction meeting shall be held at the project site with the contractor, development review coordinator, Public Work's representative and owner to review the construction schedule and critical aspects of the site work. At that time, the site/building contractor shall provide three (3) copies of a detailed construction schedule to the attending City representatives. It shall be the contractor's responsibility to arrange a mutually agreeable time for the preconstruction meeting.
5. If work will occur within the public right-of-way such as utilities, curb, sidewalk and driveway construction, a street opening permit(s) is required for your site. Please contact Carol Merritt at 874-8300, ext. 8828. (Only excavators licensed by the City of Portland are eligible.)

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

If there are any questions, please contact Sarah Hopkins at 874-8720.

Sincerely,



Jainey Caron, Chair
Portland Planning Board

cc: Lee D. Urban, Planning and Development Department Director
Alexander Jaegerman, Planning Division Director
Sarah Hopkins, Development Review Program Manager
Jay Reynolds, Development Review Coordinator
Marge Schmuckal, Zoning Administrator
Jodine Adams, Inspections
William Bray, Director of Public Works
Larry Ash, Traffic Engineer
Tony Lombardo, Project Engineer
Eric Labelle, City Engineer
Jeff Tarling, City Arborist
Penny Littell, Associate Corporation Counsel
Lt. Gaylen McDougall, Fire Prevention
Don Hall, Appraiser, Assessor's Office
Susan Doughty, Assessor's Office
Approval Letter File
Correspondence File



RUBB, INC.
P.O. Box 711, 1 Rubb Lane
Sanford, Maine 04073 USA
Tel: 207 324 2877
Fax: 207 324 2347
E-mail: info@rubbusa.com

July 17, 2002

Mr. Michael Nugent
Inspection Services Manager
City of Portland
389 Congress Street - Room 315
Portland, ME 04101

By Telefax: 874-8716

Dear Mr. Nugent:

Thank you for your time yesterday with P.D. Merrill and me. Per our conversation I am writing to confirm that there is precedent both in the U.S. and abroad for waiver of code specified fire suppression systems in Rubb buildings. The primary rationale for this is the self-venting capability of our structure's PVC coated polyester membrane. This material essentially self-vents in a fire situation thus allowing heat and smoke to escape and provide safe access to the fire by fire department personnel. In such an instance the structure is more or less analogous to having stored materials outdoors.

After our conversation yesterday, I confirmed that there are a number of unsprinklered Rubb buildings in Maine which have been permitted without sprinklers and which are used for paper storage. I also called our office in the United Kingdom to check on the location of the paper storage facility that I showed you on page 32 of our brochure. It turns out that that facility is in Dundee, Scotland and that there are numerous paper and lumber storage facilities in the UK which are not sprinklered. These include a number of buildings at the Port of London (Tilbury) the largest of which is approximately 200,000 square feet. Many of these structures were permitted with hose reel stations in lieu of sprinklers. One argument for the use of the hose reels was the potential damage to stored paper which could result from a sprinkler discharge.

Aside from paper storage facilities, Rubb structures have been permitted for high hazard occupancies such as aircraft hangars. In these situations, some precedent has been established for waiver or modification of NFPA 409 hangar protection standards. Enclosed you will find Factory Mutual letters related to a project with Sun Country Airlines in 1998 that approves omission of a sprinkler system. On a similar project in 1992 with United Airlines in Boston, a 32,000 square foot Rubb hangar was supplied with under-wing protection only. There was no fire protection system for the structure itself as it was not deemed necessary.

\\Rubb2\documents\DAVE\Nugent, Michael 7-17-02.fwp



AN INTERNATIONAL COMPANY

RUBB BUILDINGS LTD.
Tel: +44 191 482 2211
Fax: +44 191 482 2616

RUBB MOTOR A/S
Tel: +47 55 315032
Fax: +47 55 317510



Certificate No. US9710891



Mr. Michael Nugent

July 17, 2002

Page 2 of 2

I hope the enclosed is of interest to you and that it serves to reinforce the position that either a waived or modification of standard requirements does have some precedent based upon the specific construction of our product.

Please let me know if further detail is required and thank you for your attention to this matter.

Sincerely,
Rubb, Inc.

A handwritten signature in black ink, appearing to read "David C. Nickerson", with a long horizontal flourish extending to the right.

David C. Nickerson
VP/GM

cc: P.D. Merrill



Factory Mutual
4325 Abbott Ave. N.
Robbinsdale, MN 55422

June 11, 1998

Rubb Inc.
Sanford Airport
P.O. Box 711
Sanford, Maine 04073

Attention: Matthew Kromke

RE: Sun Country Temporary Hangar
Index No. 61210.82
Account No. 2-49816

Dear Matthew:

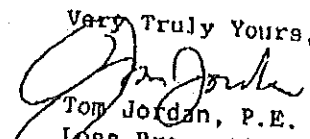
This letter will confirm my receipt of various literature on your tension membrane structures (TST). Also included, was a copy of the Factory Mutual (FM) Technical Report which details the full scale fire test performed on a TST using a Shelter-Rite Style 8028 fabric membrane. This fabric membrane is being used on the Sun Country hangar.

The fire test results showed the referenced membrane will not propagate flame or sustain combustion when exposed to a severe fire. Therefore, regarding the "hot work" comment in my May 29, 1998 letter, this membrane should not be treated as combustible construction. Use of the FM Hot Work permit system should still be adhered to on this project as any other MAC construction project.

I have enclosed a copy of our Data Sheet 1-54 (Roof Loads for New Construction) and Data Sheet 1-28 (Wind Loads to Roof Systems and Roof Deck Securement). Properties insured by the FM System should meet the these and all other applicable FM standards.

If you have any questions or comments, please contact me.

Very Truly Yours,



Tom Jordan, P.E.
Loss Prevention Specialist
Midwest Operations

(1.0)

cc: LE & FG
cc: Arkwright - MWRO

cc: Metropolitan Airports Commission
6040 28th Avenue South
Minneapolis, MN 55450
Attn.: Bill Hoyt

cc: MAC Fire Department
6307 34th Ave. S.
Minneapolis, MN 55450-2906
Attn.: Rocky

FACTORY MUTUAL | 

Factory Mutual Engineering Association
Interchange North Building
300 South Highway 169
Suite 130
Minneapolis, Minnesota 55426
Telephone (612) 542-9389
Fax (612) 542-9466

May 29, 1998

Metropolitan Airports Commission
Airport Fire Department
6307 34th Avenue South
Minneapolis, MN 55450-2906

Attention: Mr. Gerald "Rocky" Roskowiak, Fire Marshal

RE: Sun Country Temporary Hangar
Index No. 61210.82
Account No. 2-49816

Dear Rocky:

During my April 26, 1998 visit the airport, I obtained one set of construction documents for the Sun Country Temporary Hangar from you. The hangar is to be used for light maintenance of 727 and DC10 aircraft with fuel in the tanks. It would be capable of holding one DC10 and two 727's.

The 210 x 230 ft. hangar will be constructed south of the existing Sun Country Hangar. It will be constructed of steel framing with a tension membrane exterior cladding. The membrane will be a PVC coated polyester fabric manufactured by Seaman Corporation. The roof framing slope progression from section to section is 5, 15, 25 and 35° from peak to eave. The building height will range from 30 ft. at the eave to 72 ft. at the peak.

The floor slab will be sloped 1/8 in./ft. toward point floor drains. A total of twelve 4 in. drains will be provided and lead to flammable waste trap and connection to the sanitary sewer.

Building heat will be provided by natural gas fired, infrared unit heaters with ratings of 100,000 and 120,000 Btu/hr. Lighting will be provided by 1000 W metal-halide lamps in enclosed fixtures.


I have the following comments regarding this project:

1. During construction, temporary bracing of steel framing should be provided in accordance with recognized construction standards.
2. When installation of the membrane begins, smoking should be restricted on the job site and any hot work should be supervised with Factory Mutual (FM) Hot Work Permit System. Permits should be obtained from the Kraus-Anderson Construction Manager.

*SEE
6/11 letter*

Metropolitan Airports Commission
Page 2

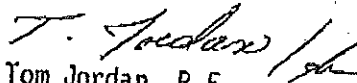
Index No. 61210.82
Account No. 2-49816

3. Unbalanced snow load design calculations should be submitted for roof the system.
4. The manufacture of the building membrane should provide results from modeling or testing that membrane securement will provide a 90 psf windstorm securement.
5. The omission of automatic sprinkler protection is acceptable to FM based on the loss exposure and cost to provide proper protection. Fire protection would require ceiling and underwing automatic, foam-water deluge systems. The water demand for these systems would require at least two booster pumps. 
6. Consideration should be given for installation of small foam-water hose stations around the perimeter of the building and a building fire detection system.

Subject to the above comments, the construction proposal is considered acceptable. I am retaining the one set of construction drawings for our files.

If you have any questions or comments, please contact me.

Very Truly Yours,



Tom Jordan, P.E.
Loss Prevention Specialist
Midwest Operations

(4.0)

lcc: LE & FC
lcc: Arkwright - MWRO

lcc: Metropolitan Airports Commission
6040 28th Avenue South
Minneapolis, MN 55450
Attn.: Bill Hoyt

lcc: Rubb Inc.
Sanford Airport
P.O. Box 711
Sanford, Maine 04073
Attn.: Matthew Kromke



RUBB, INC.
P.O. Box 711, 1 Rubb Lane
Sanford, Maine 04073 USA
Tel: 207 324 2877
Fax: 207 324 2347
E-mail: info@rubbusa.com

July 12, 2002

Mr. Michael Nugent
Inspection Services Manager
City of Portland
389 Congress Street
Portland, ME 04101

Re: BOCA 1999 Code Analysis

By Telefax: (207) 874-8716

Dear Mike:

We believe that the Merrill's #6 structure at 58,270 square feet meets the 1999 BOCA code as an unlimited area structure without sprinklers based on the following:

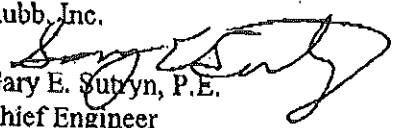
Section 507.1: Structure is use Group S - 1, does not exceed one story and is less than 85 feet in height. Structure is of Type 2C construction.

Exception # 1 Allowed by 507.1: Buildings of industrial occupancies where the sprinklers would be detrimental to the specific occupancy shall be exempted from height limitations, fire separation distance requirements and requirements for automatic fire suppression systems. In this situation a discharge of the sprinkler system would ruin the newsprint paper stored within the structure. The fire separation distances of section 507.2 are also waived under this exception. The fire separation distance requirement is 30 feet. There is an existing building on an adjacent lot that is over 70 feet away and the nearest corner of Merrill's guard shack is approximately 40 feet away. All other structures are further than these.

This section allows the local code official to approve this use of the structure as configured and without a fire suppression system. Our structures have a very good reputation with the Portland Fire Department. The fabric vents almost immediately and allows ready access for fire fighting from the exterior of the structure. In effect, the structure is essentially transparent to fire and so is not unlike outdoor storage with respect to fire.

Please don't hesitate to call me with any questions on the above.

Sincerely,
Rubb, Inc.



Gary E. Sutryn, P.E.
Chief Engineer

cc: P.D. Merrill

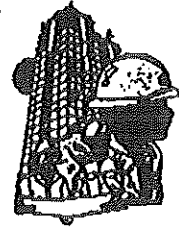
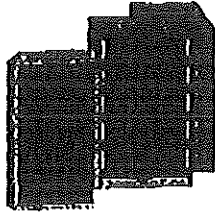
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RUBB BUILDINGS LTD.
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RUBB MOTOR A/S
Tel: +47 55 315032
Fax: +47 55 317510





**CITY OF PORTLAND
BUILDING CODE CERTIFICATE**
389 Congress St., Rm 315
Portland, ME 04101

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

FROM: Gary Sutryn P.E.

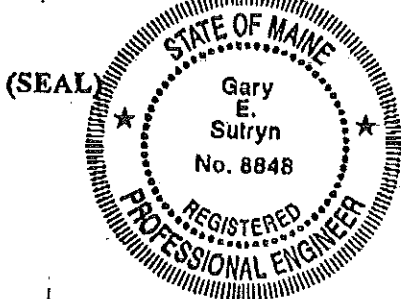
RE: Certificate of Design

DATE: 7/03/02

These plans and/or specifications covering construction work on:

Merrill #6 Tension Membrane Structuring

Have been designed and drawn up by the undersigned, a Maine registered architect/engineer according to the BOCA National Building Code/1999 Fourteenth Edition, and local amendments.



Signature *Gary E. Sutryn*

Title Chief Engineer

Firm Rubb Inc.

Address P.O. Box 711, 1 Rubb Lane Sanford, ME. 04073

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.

We Cover The World.®



BUILDING SYSTEMS

TELEFAX

COMPANY:

RUBB INC.,
Sanford Airport
P.O. Box 711
Sanford, Maine 04073
Tel: (207) 324-2877
Fax: (207) 324-2347
E-mail: info@rubbusa.com

ATTN:

Michael Nugent

FROM:

Gary Sutryn, P.E.

FAX NO:

207-874-8716

NO. SHEETS:

2

REF:

DATE:

7/10/02

Sent []



AN INTERNATIONAL COMPANY



CERTIFICATE No. US9770897



MERRILL
Marine Terminal Services, Inc.

Via Fax 874-8716
Registered Mail

July 18, 2002

City of Portland
Attn: Michael J. Nugent, Inspection Services Manager
Housing and Neighborhood Services Division
City Hall Room 315
389 Congress Street
Portland, ME 04101

Re: Building Permit Application
601 Danforth Street

Dear Mr. Nugent:

Thank you for meeting with David Nickerson and I Tuesday to review the need for a sprinkler system in the subject warehouse. You requested information on the location of structures used for similar purposes where local authorities have not required sprinkler systems.

The following information may be useful:

A) State of Maine

- 1) The Maine Port Authority (MePA), owner of the proposed Building, recognizes that the use of a sprinkler system in this application can be more damaging to cargo than an actual fire and therefore does not require a sprinkler system in this or other buildings it owns or plans to own in Searsport for forest products.

Contact Brian Nutter, Administrator (207) 624-3564

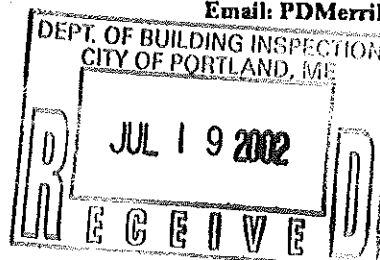
- 2) The Eastport Port Authority has a similar policy with respect to the four conventional steel warehouses at its facilities used for baled woodpulp and paper rolls. I spoke with the City Manager this afternoon and he confirmed this policy and related his personal experience which supports his judgment on it. He said he would be glad to discuss it with you if you would like.

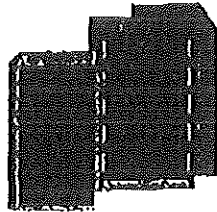
Contact: City Manager Bud Finch (207) 853-2300

Manager of Fednav (operator) Skip Rogers (207) 853-6096

City of Portland
Cargo Transport Specialists Since 1929
601 Danforth Street • Portland, Maine USA 04102-3903
www.merrillsmarine.com

Tel: 207-772-3254 ext. 100
Fax: 207-772-3166
Email: PDMerrill@merrillsmarine.com





**CITY OF PORTLAND
BUILDING CODE CERTIFICATE**
389 Congress St., Rm 315
Portland, ME 04101

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

FROM: Gary Sutryn P.E.

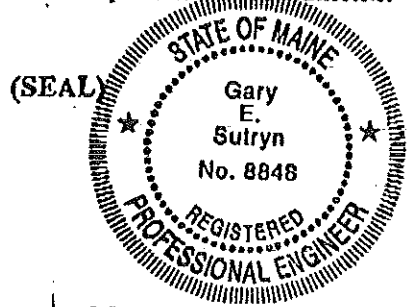
RE: Certificate of Design

DATE: 7/03/02

These plans and/or specifications covering construction work on:

Merrill #6 Tension Membrane Structuring

Have been designed and drawn up by the undersigned, a Maine registered architect/engineer according to the BOCA National Building Code/1999 Fourteenth Edition, and local amendments.



Signature *Gary Sutryn*

Title Chief Engineer

Firm Rubb Inc.

Address P.O. Box 711, 1 Rubb Lane Sanford, ME. 04073

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.

GAGNON ENGINEERING INC.
Structural Consultants

198 MAIN STREET
GORHAM, MAINE 04038
Fax: 207-839-8109

FAX TRANSMISSION COVER SHEET

Date: 7/3/02 From: Roger G.

Attn. To: Michael Nugent Fax No. 874-8716

Co./Org.: City of Portland No. of Pgs: 3 (Including Cover Page)

Re: Proposed "Rubb" Bldg
Merrill's Marine Terminal / W. Commer.

Please Call 207-839-8085 if you have any problems receiving this fax.

This message is intended only for the use of the individual or entity to which it is addressed or copied (below), and may contain information that is privileged and confidential. If the reader of this message is not the intended recipient, any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone.

Special instructions or message: Michael, As Requested

PLEASE REVIEW AND CALL IF YOU HAVE ANY QUESTIONS/PROBLEMS. THANK YOU.

Copied: Lou Campbell
(Cianbro / Prld)
File 773 7617

Thanks
Roger G.



**CITY OF PORTLAND
ACCESSIBILITY CERTIFICATE**

Designer: Roger R. Gagnon, P.E.

Address of Project Merrill's Marine Terminal
West Commercial St.

Nature of Project Industrial Storage Facility

Date July 3, 2002

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.

(SEAL)



Signature *Roger R. Gagnon*

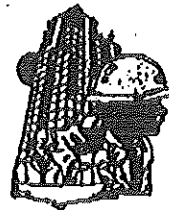
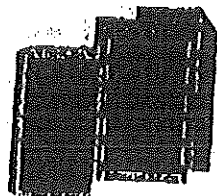
Title Principal

Firm Gagnon Engineering, Inc.

Address 198 Main St.

Gorham, ME 04038

Telephone (207) 839-8085



**CITY OF PORTLAND
BUILDING CODE CERTIFICATE**
389 Congress St., Rm 315
Portland, ME 04101

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

FROM: Roger R. Gagnon, P.E.

RE: Certificate of Design

DATE: July 2, 2002

These plans and/or specifications covering construction work on:

Foundation for RUBB Building (proposed)

Merrill Marine Terminal, West Commercial St

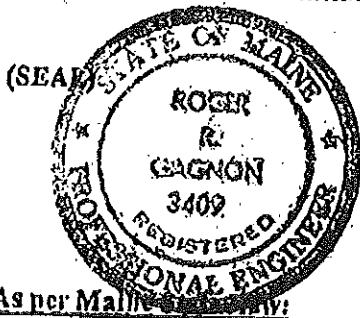
Have been designed and drawn up by the undersigned, a Maine registered architect/engineer according to the BOCA National Building Code/1999 Fourteenth Edition, and local amendments. Loads Provided by Rubb Building Systems, Sanford, Maine

Signature Roger R. Gagnon

Title Principal,

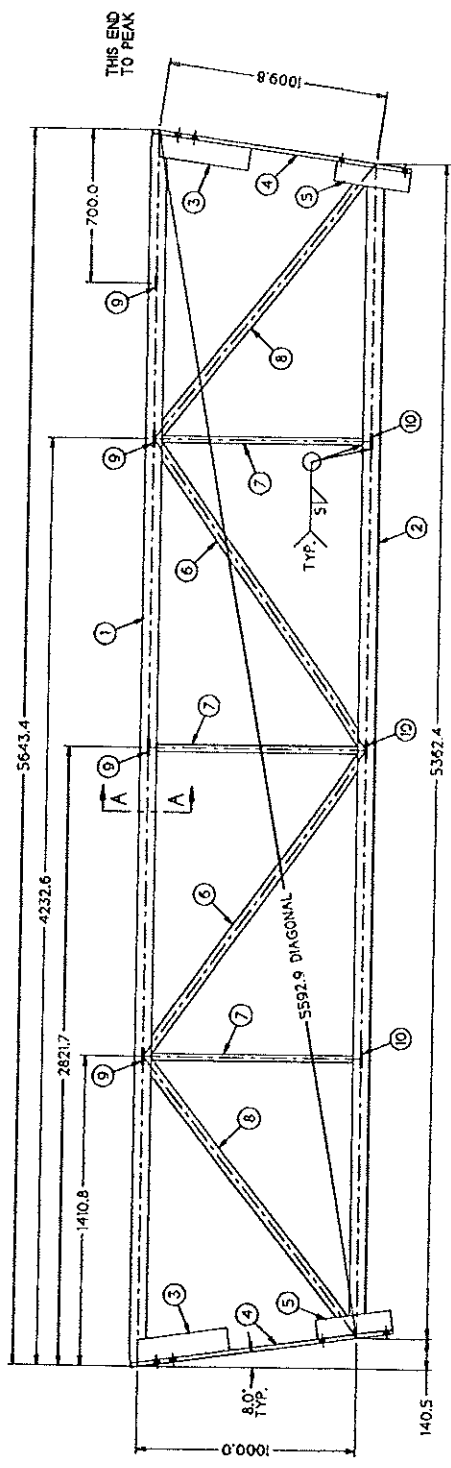
Firm Gagnon Engineering, Inc.

Address 198 Main St. Gorham, ME 04038

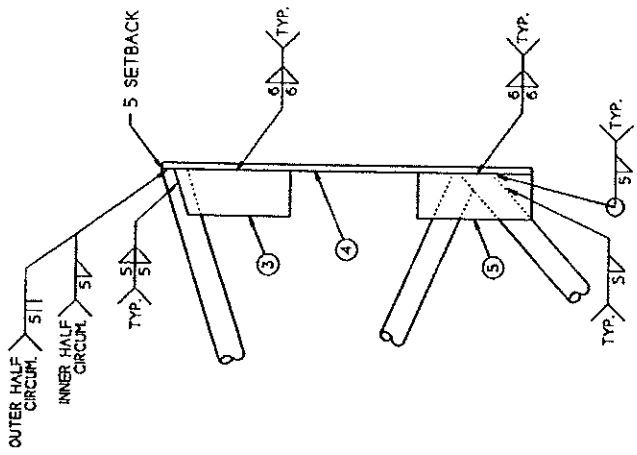


As per Maine Code:

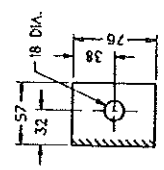
\$50,000.00 or more in new construction, repair, expansion, addition, or modification for Building or Structures, shall be prepared by a registered design Professional.



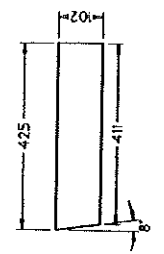
PEAK ROOF TRUSS



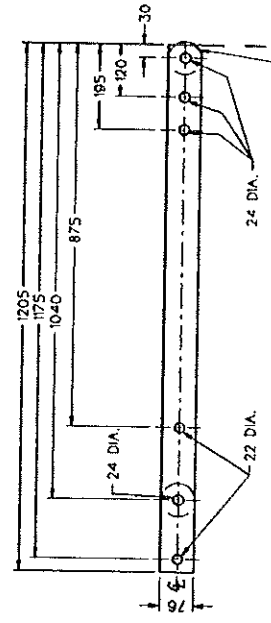
**FLANGE & STIFFENER
WELD DETAILS**
NOT TO SCALE



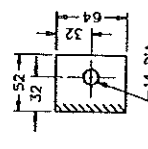
DETAIL ITEM 9
5x SCALE



DETAIL ITEM 3
2x SCALE
OUTER STIFFENER



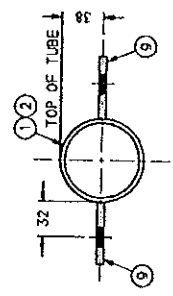
DETAIL ITEM 4
2x SCALE



DETAIL ITEM 10
5x SCALE

- NOTES:**
- 1) BREAK SHARP CORNERS FOR PVC.
 - 2) SEE DRAWING 1001S FOR GENERAL WELD NOTES.
 - 3) BILL OF MATERIAL IS FOR ONE ASSEMBLY.
 - 4) SEE STEEL LAYOUT FOR LOCATION.
 - 5) ALL DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 - 6) VENT ALL TUBES FOR GALVANIZING.

ITEM	QTY.	DESCRIPTION	SPEC.	MIN.
1	1	TUBE 3" DIA. x 0.126	A36	50 FT
2	4	TUBE 3" DIA. x 0.126	A36	50 FT
3	4	FLAT 3" x 3/8" x 1/2"	A36	50 FT
4	2	FLAT 3" x 3/8" x 1/2"	A36	50 FT
5	4	FLAT 3" x 3/8" x 1/2"	A36	50 FT
6	2	TUBE 1 1/2" DIA. x 0.106	A36	50 FT
7	2	TUBE 1 1/2" DIA. x 0.106	A36	50 FT
8	2	TUBE 1 1/2" DIA. x 0.106	A36	50 FT
9	4/8	FLAT 3" x 3/8" x 5/8"	A36	50 FT
10	3/8	FLAT 2 1/2" x 1/2" x 5/8"	A36	50 FT



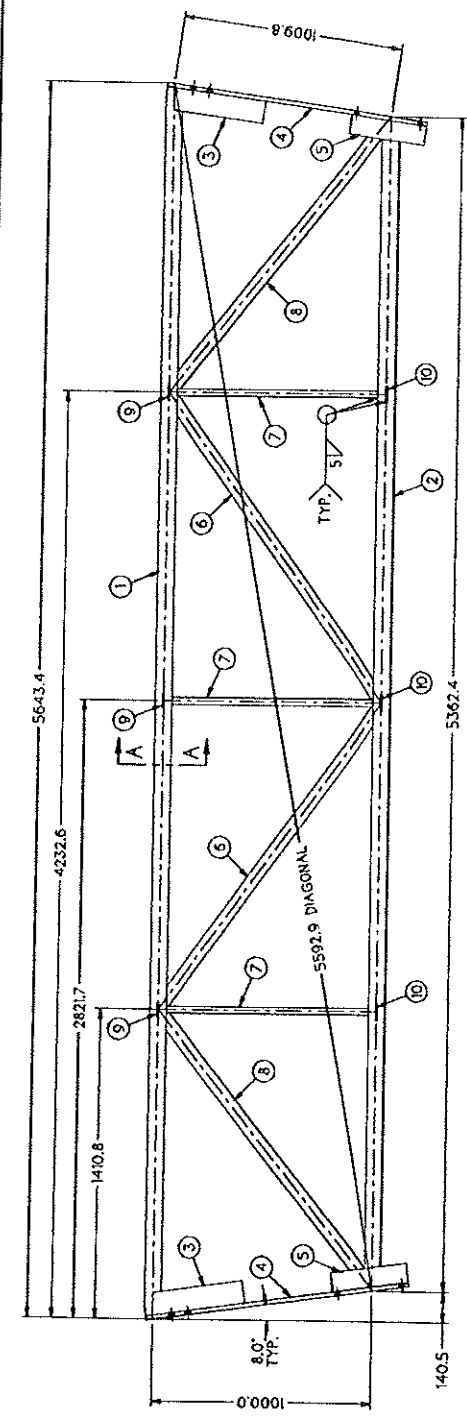
SECTION "A-A"
5x SCALE

REV.	DESCRIPTION	DRAWN	APP.	DATE
1	23.088m RVE / 4m LEG PEAK ROOF TRUSS			
2	SKK 4-21-98			
3	98020			
4	SA TELLITE SHELTERS			
5	RUBB, INC. SANFORD HANE 04073			
6	TEL: 207-324-2077 FAX 207-324-2347			

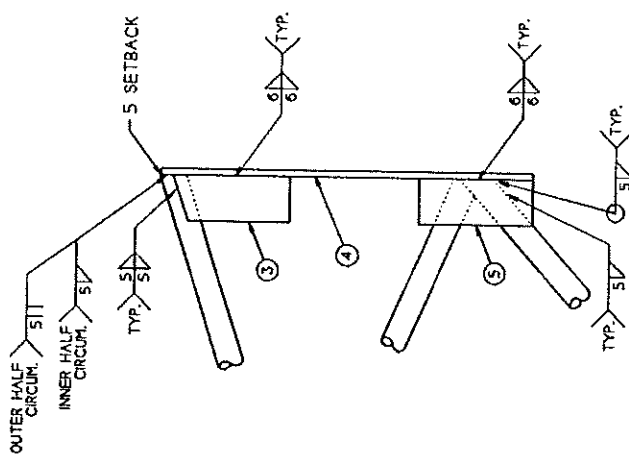
RUBB
BUILDING SYSTEMS

The Company, Its World
This drawing is the property of RUBB, INC. and is not to be reproduced or used for any manufacturing purposes without the express written consent of RUBB, INC.

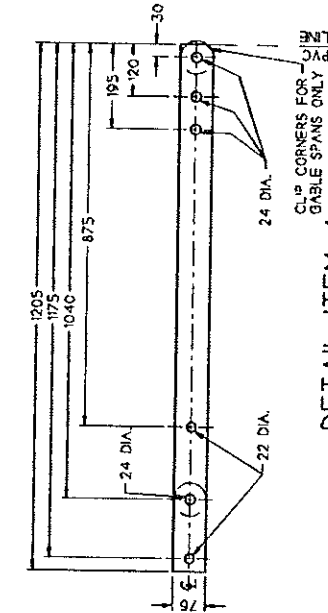
29757



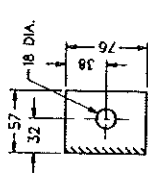
NON-PEAK ROOF TRUSS



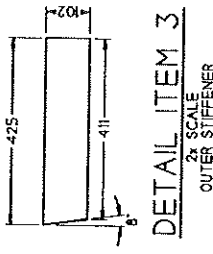
FLANGE & STIFFENER WELD DETAILS
NOT TO SCALE



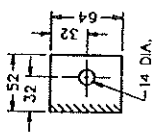
DETAIL ITEM 4
2x SCALE



DETAIL ITEM 9
5x SCALE



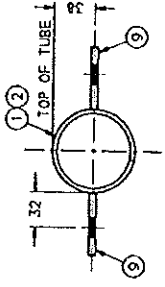
DETAIL ITEM 3
2x SCALE
OUTER STIFFENER



DETAIL ITEM 10
5x LUG - 5x SCALE

- NOTES:**
- 1) BREAK SHARP CORNERS FOR PVC.
 - 2) SEE DRAWING TROOP FOR GENERAL WELD NOTES.
 - 3) BILL OF MATERIALS FOR OVER ASSEMBLY.
 - 4) SEE STEEL LAYOUT FOR LOCATION.
 - 5) ALL DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
 - 6) VENT ALL TUBES FOR GALVANIZING.

QTY.	DESCRIPTION	SPEC.	MIN.
2	TUBE 3" DIA. x 0.156"	A500B	50 L41
4	TUBE 3" DIA. x 0.156"	A500B	50 L41
4	FLAT 3" x 3/4" x 1/8"	A36	50 L41
4	FLAT 3" x 3/4" x 1/8"	A36	50 L41
4	FLAT 3" x 3/4" x 1/8"	A36	50 L41
2	TUBE 2 3/8" DIA. x 0.156"	A500B	50 L41
2	TUBE 2 3/8" DIA. x 0.156"	A500B	50 L41
2	TUBE 2 3/8" DIA. x 0.156"	A500B	50 L41
2	TUBE 2 3/8" DIA. x 0.156"	A500B	50 L41
2	FLAT 3" x 3/8" x 5/16"	A36	50 L41
2	FLAT 3" x 3/8" x 5/16"	A36	50 L41



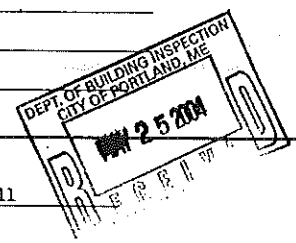
SECTION "A-A"
5x SCALE

REV.	DESCRIPTION	DRAWN	APP.	DATE
	23.088m BVE / 4th LEG NON-PEAK ROOF TRUSS			
	SCALE 1:15			
	98020			
	SATELLITE SHELTERS			
	FLBB, INC. SANFORD, N.C. 28783			
	TEL: 207-324-2877 FAX: 207-324-2347			
	29758			

All Purpose 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,

Total Square Footage of Proposed Structures 56 sf 120 sf		Square Footage of Lot 797.356	
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# 72 A 003-001		Owner: Merrill Industries, Inc.	Telephone: 207-772-3254
Lessee/Buyer's Name (if Applicable)	Applicant name, address & telephone: Same		cost Of Work: \$75,000 Fee: \$705
Current use: <u>Marine Terminal</u>			
If the location is currently vacant, what was prior use: _____			
Approximately how long has it been vacant: _____			
Proposed use: <u>Same</u>			
Project description: _____			
Contractor's name, address & telephone: _____			
Who should we contact when the permit is ready: <u>P.D. Merrill</u>			
Mailing address: <u>601 Danforth Street</u> <u>Portland, ME 04102</u>			
We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up. PHONE: 207-772-3254			



IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.

Signature of applicant:	Date: 24 May 2004
-------------------------	-------------------

ermit, you may not com
c District you may be su

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK
CITY OF PORTLAND

Please Read Application And Notes, if Any, Attached

BUILDING PERMITS SECTION

PERMIT

Permit Number: 040677

This is to certify that Merrill Industries Inc/Merrill Industries,
has permission to Homeland Security tenant fit
AT 601 Danforth St 072 A003001

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 inspection must be given and written permission procured before this building or part thereof is occupied or closed-in. 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. [Signature]
Health Dept. _____

Appeal Board _____
Other _____ Department Name _____

[Signature]
Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

TO: Inspections
FROM: Jay Reynolds, Development Review Coordinator
DATE: December 9, 2002
RE: C. of O. for # 601 Danforth St./P.D. Merrill Warehouse Building
Lead CBL (072-A-003) ID# (2002-0079)

After visiting # 601 Danforth Street, I have the following comments:

Site work Complete.

At this time, I recommend issuing a Permanent Certificate of Occupancy.

Please contact me if you have any questions or comments.
Thank You.

Cc: Sarah Hopkins, Development Review Services Manager
Mike Nugent, Inspection Services Manager
file

File: O:\drc\merrillrubbbldg1.doc



199 MAIN STREET
GORHAM, MAINE 04038
Fax: 207-839-8035

072-A-003

FAX TRANSMISSION COVER SHEET

Date: 1/22/03 From: ROGER G.
 Attn. To: MICHAEL NUGENT Fax No. 874-8716
 Co./Org.: CITY OF PORTLAND No. of Pgs: 5 (Including Cover Page)
 Re: ROBB BUILDING, MERRILL'S MARINE TERMINAL
SPECIAL INSPECTION COMPLIANCE (BOCA 1705)

Please Call 207-839-8085 if you have any problems receiving this fax.

This message is intended only for the use of the individual or entity to which it is addressed or copied (below), and may contain information that is privileged and confidential. If the reader of this message is not the intended recipient, any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone.

Special instructions or message:

- PLEASE READ ATTACHED LETTERS + TABLES
- PLEASE CALL w/ QUESTIONS OR COMMENTS

PLEASE REVIEW AND CALL IF YOU HAVE ANY QUESTIONS/PROBLEMS. THANK YOU.

Copied: P.D. MERRILL (MERRILL'S MARINE TERMINAL)
 LOU CAMPBELL (CIAMBRO CORP.)
 FILE

GAGNON ENGINEERING, INC.

Structural Consultants

City of Portland
Building Code Enforcement Office
389 Congress Street
Portland, Maine 04101

January 22, 2003

Attn: Michael Nugent, Building Code Enforcement Officer

Re: Rubb Building, Material Testing & Special Inspection Compliance: BOCA 1705.

Dear Michael:

This letter serves notice that all "Special Inspections" (described in GEI letter dated July 22, 2002) were performed in accordance with BOCA 1705.1.1, in a timely manner, through the duration of this Project.

Gagnon Engineering (GEI) performed all inspections and/or certifications regarding Gravels & Fills, Concrete Mix Designs, Concrete Reinforcing & Detailing, and Concrete Curing Methods. We inspected critical Concrete Placements, and randomly inspected other Concrete Placements.

Personnel from GEI and Cianbro Corporation routinely performed Site Preparation and Concrete Formwork inspections before installation of Fills and Foundations. S.W. Cole Engineering (Gray office) was employed to perform all Prepared Fill and Concrete testing. Peter Craig (Concrete Constructives) was consulted and reviewed the Concrete Mix Design and other important concrete construction issues.

We compiled a Summary Table of Concrete Construction & Prepared Fill Test Results, which is attached to this report. This Table clearly illustrates that all Concrete Strengths, Slumps, Air contents were within those Specified; also that Subgrade Compaction met or exceed the Design Values required by the Contract. A complete Database of all Concrete and Subgrade Test results is on file at GEI.

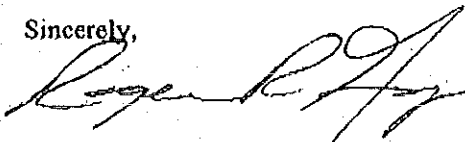
Reinforcing Steel was fabricated and installed correctly. We have approved (and as-built) Reinforcing Bar Shop Drawings on File.

Minor Compliance issues were identified and satisfactorily resolved in the course of Construction. The Concrete and Site Work, that was within our scope of Work, was completed in November. Except for minor (shrinkage) cracking around the Dock Levelers at the West End of the Storage Building, there are no outstanding issues to report.

We are monitoring the performance of installed work, and will continue to do so for several months.

I trust that this information adequately describes the Project's compliance with BOCA Special Inspections. Please call if there is any need for clarification or, if there are any related issues.

Sincerely,



Roger R. Gagnon, P.E.

Attachments:

Testing Results Summary Table (1 sheet)
GEI Letter, BOCA 1705, Special Inspections
(dated 7/22/02, 2 sheets)

CC: P.D. Merrill (Merrill's Marine Terminal)
Lou Campbell (Cianbro)
File

P.D. Merrill (Merrill's Marine Terminal)

July 22, 2002

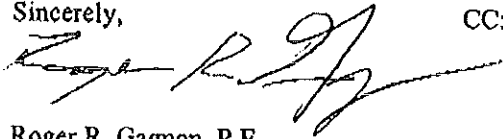
Page two of two

Report Requirements (1705.1.2)

All testing operations will be documented, and filed with Gagnon Engineering. Reports will be sent to the Portland Code Enforcement Office in a timely manner. Compliance discrepancies will be reported to Cianbro Corporation for correction and/or appropriate remedial action. Non-compliant, non-corrected installed work will be brought to the attention of the Portland Code Enforcement Office.

I trust that this information adequately describes the projects compliance with BOCA Special Inspections. Please call if there is any need for clarification or, if there are any related issues.

Sincerely,

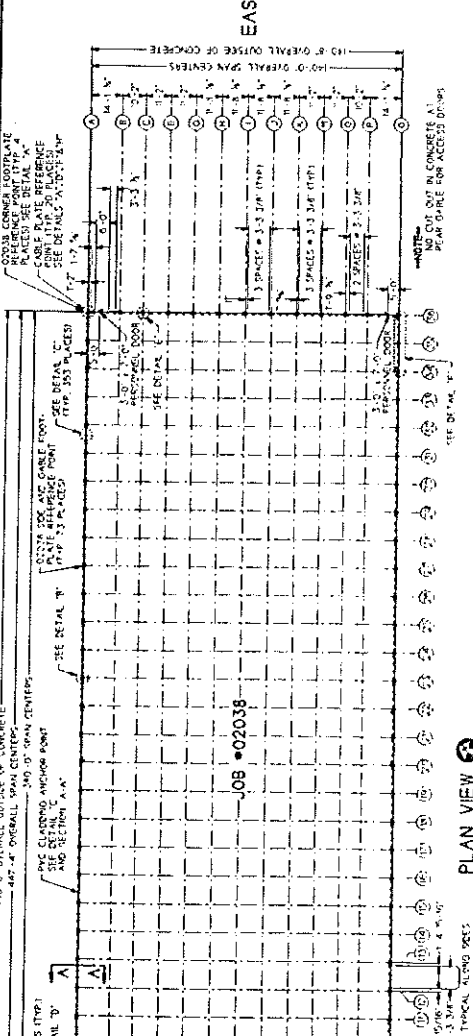


Roger R. Gagnon, P.E.

CC: Michael Nugent (Portland)
Lou Campbell (Cianbro)
File

STRUCTURAL NOTES

- GENERAL: CONCRETE SHALL BE FINISHED TO THE GRADE AND SHALL BE PROTECTED TO PREVENT DAMAGE TO THE SURFACE. ALL CONCRETE SHALL BE CURRED AND PROTECTED TO PREVENT CRACKING. ALL CONCRETE SHALL BE FINISHED TO THE GRADE AND SHALL BE PROTECTED TO PREVENT DAMAGE TO THE SURFACE. ALL CONCRETE SHALL BE CURRED AND PROTECTED TO PREVENT CRACKING.
- REINFORCING: ALL REINFORCING SHALL BE AS PER THE SCHEDULE. ALL REINFORCING SHALL BE WELDED TOGETHER AT ALL JOINTS. ALL REINFORCING SHALL BE WELDED TOGETHER AT ALL JOINTS.
- ANCHOR BOLTS: ALL ANCHOR BOLTS SHALL BE AS PER THE SCHEDULE. ALL ANCHOR BOLTS SHALL BE WELDED TO THE CONCRETE AT ALL JOINTS. ALL ANCHOR BOLTS SHALL BE WELDED TO THE CONCRETE AT ALL JOINTS.

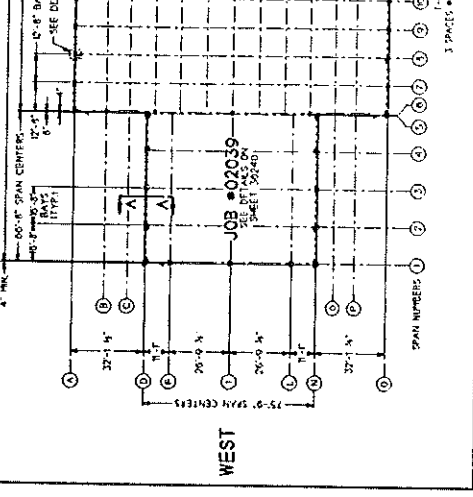


FOUNDATION FORCES: (WORST CASES)

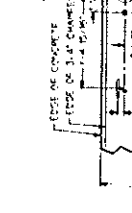
- I) ALONG GRID LINES D & N
DEAD - LIVE F₁ = 2.4 LATERAL
DEAD - LIVE WIND F₂ = 2.4 LATERAL
DEAD - LIVE WIND F₃ = 2.4 LATERAL
- II) AT GRID LOCATIONS D1, D2, D4, D5, N1, N2, N4, N5
DEAD - LIVE WIND F₁ = 1.0 LATERAL
DEAD - LIVE WIND F₂ = 0.9 LATERAL
DEAD - LIVE WIND F₃ = 0.9 LATERAL
- III) END WALL LOCATIONS AT GABLE COLUMNS F1, F2, F3, F4
DEAD - LIVE WIND F₁ = 1.0 LATERAL
DEAD - LIVE WIND F₂ = 1.0 LATERAL
DEAD - LIVE WIND F₃ = 1.0 LATERAL
- IV) AT GRID LOCATIONS A6, A8, A20, A22, A34, A36, O6
DEAD - LIVE WIND F₁ = 0.4 LATERAL
DEAD - LIVE WIND F₂ = 0.4 LATERAL
DEAD - LIVE WIND F₃ = 0.4 LATERAL
- V) END WALL LOCATIONS AT GABLE COLUMNS B6, B36, C36, E6, E36, G36, H36, I6, I36
DEAD - LIVE WIND F₁ = 1.0 LATERAL
DEAD - LIVE WIND F₂ = 1.0 LATERAL
DEAD - LIVE WIND F₃ = 1.0 LATERAL

ANCHOR BOLT SCHEDULE

TYPE	DESCRIPTION	TYPE	DESCRIPTION
TYPE 'A'	FACE OF CONCRETE	TYPE 'B'	FACE OF CONCRETE
TYPE 'C'	FACE OF CONCRETE	TYPE 'D'	FACE OF CONCRETE
TYPE 'E'	FACE OF CONCRETE	TYPE 'F'	FACE OF CONCRETE
TYPE 'G'	FACE OF CONCRETE	TYPE 'H'	FACE OF CONCRETE
TYPE 'I'	FACE OF CONCRETE	TYPE 'J'	FACE OF CONCRETE
TYPE 'K'	FACE OF CONCRETE	TYPE 'L'	FACE OF CONCRETE
TYPE 'M'	FACE OF CONCRETE	TYPE 'N'	FACE OF CONCRETE
TYPE 'O'	FACE OF CONCRETE	TYPE 'P'	FACE OF CONCRETE
TYPE 'Q'	FACE OF CONCRETE	TYPE 'R'	FACE OF CONCRETE
TYPE 'S'	FACE OF CONCRETE	TYPE 'T'	FACE OF CONCRETE
TYPE 'U'	FACE OF CONCRETE	TYPE 'V'	FACE OF CONCRETE
TYPE 'W'	FACE OF CONCRETE	TYPE 'X'	FACE OF CONCRETE
TYPE 'Y'	FACE OF CONCRETE	TYPE 'Z'	FACE OF CONCRETE



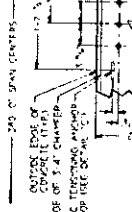
DETAIL A



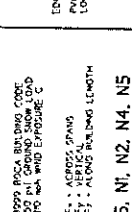
DETAIL B



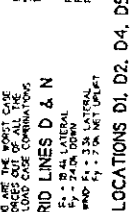
DETAIL C



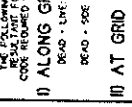
DETAIL D



DETAIL E



DETAIL F



DESIGN LOADS:
DEAD LOAD = 50 psf
LIVE LOAD = 100 psf
WIND LOAD = AS PER ASCE 7-99, EXPOSURE C

NOTES:
1) ACCESS DOOR MATERIALS NOT SHOWN. USE ACTUAL MATERIALS.
2) ANCHOR BOLTS SHALL BE WELDED TO THE CONCRETE AT ALL JOINTS.
3) ALL CONCRETE SHALL BE FINISHED TO THE GRADE AND SHALL BE PROTECTED TO PREVENT DAMAGE TO THE SURFACE.
4) ALL REINFORCING SHALL BE AS PER THE SCHEDULE.
5) ALL ANCHOR BOLTS SHALL BE WELDED TO THE CONCRETE AT ALL JOINTS.

CONCRETE REINFORCING SCHEDULE

TYPE	DESCRIPTION	TYPE	DESCRIPTION
TYPE 'A'	FACE OF CONCRETE	TYPE 'B'	FACE OF CONCRETE
TYPE 'C'	FACE OF CONCRETE	TYPE 'D'	FACE OF CONCRETE
TYPE 'E'	FACE OF CONCRETE	TYPE 'F'	FACE OF CONCRETE
TYPE 'G'	FACE OF CONCRETE	TYPE 'H'	FACE OF CONCRETE
TYPE 'I'	FACE OF CONCRETE	TYPE 'J'	FACE OF CONCRETE
TYPE 'K'	FACE OF CONCRETE	TYPE 'L'	FACE OF CONCRETE
TYPE 'M'	FACE OF CONCRETE	TYPE 'N'	FACE OF CONCRETE
TYPE 'O'	FACE OF CONCRETE	TYPE 'P'	FACE OF CONCRETE
TYPE 'Q'	FACE OF CONCRETE	TYPE 'R'	FACE OF CONCRETE
TYPE 'S'	FACE OF CONCRETE	TYPE 'T'	FACE OF CONCRETE
TYPE 'U'	FACE OF CONCRETE	TYPE 'V'	FACE OF CONCRETE
TYPE 'W'	FACE OF CONCRETE	TYPE 'X'	FACE OF CONCRETE
TYPE 'Y'	FACE OF CONCRETE	TYPE 'Z'	FACE OF CONCRETE

ANCHOR BOLT SCHEDULE

TYPE	DESCRIPTION	TYPE	DESCRIPTION
TYPE 'A'	FACE OF CONCRETE	TYPE 'B'	FACE OF CONCRETE
TYPE 'C'	FACE OF CONCRETE	TYPE 'D'	FACE OF CONCRETE
TYPE 'E'	FACE OF CONCRETE	TYPE 'F'	FACE OF CONCRETE
TYPE 'G'	FACE OF CONCRETE	TYPE 'H'	FACE OF CONCRETE
TYPE 'I'	FACE OF CONCRETE	TYPE 'J'	FACE OF CONCRETE
TYPE 'K'	FACE OF CONCRETE	TYPE 'L'	FACE OF CONCRETE
TYPE 'M'	FACE OF CONCRETE	TYPE 'N'	FACE OF CONCRETE
TYPE 'O'	FACE OF CONCRETE	TYPE 'P'	FACE OF CONCRETE
TYPE 'Q'	FACE OF CONCRETE	TYPE 'R'	FACE OF CONCRETE
TYPE 'S'	FACE OF CONCRETE	TYPE 'T'	FACE OF CONCRETE
TYPE 'U'	FACE OF CONCRETE	TYPE 'V'	FACE OF CONCRETE
TYPE 'W'	FACE OF CONCRETE	TYPE 'X'	FACE OF CONCRETE
TYPE 'Y'	FACE OF CONCRETE	TYPE 'Z'	FACE OF CONCRETE

NOTES:
1) ALL CONCRETE SHALL BE FINISHED TO THE GRADE AND SHALL BE PROTECTED TO PREVENT DAMAGE TO THE SURFACE.
2) ALL REINFORCING SHALL BE AS PER THE SCHEDULE.
3) ALL ANCHOR BOLTS SHALL BE WELDED TO THE CONCRETE AT ALL JOINTS.

NO.	REVISION	DATE	BY	CHKD.
1	AS PER	11/11/00
2	AS PER	11/11/00
3	AS PER	11/11/00
4	AS PER	11/11/00

PROJECT INFORMATION:
PROJECT: ...
DRAWING NO.: ...
DATE: ...

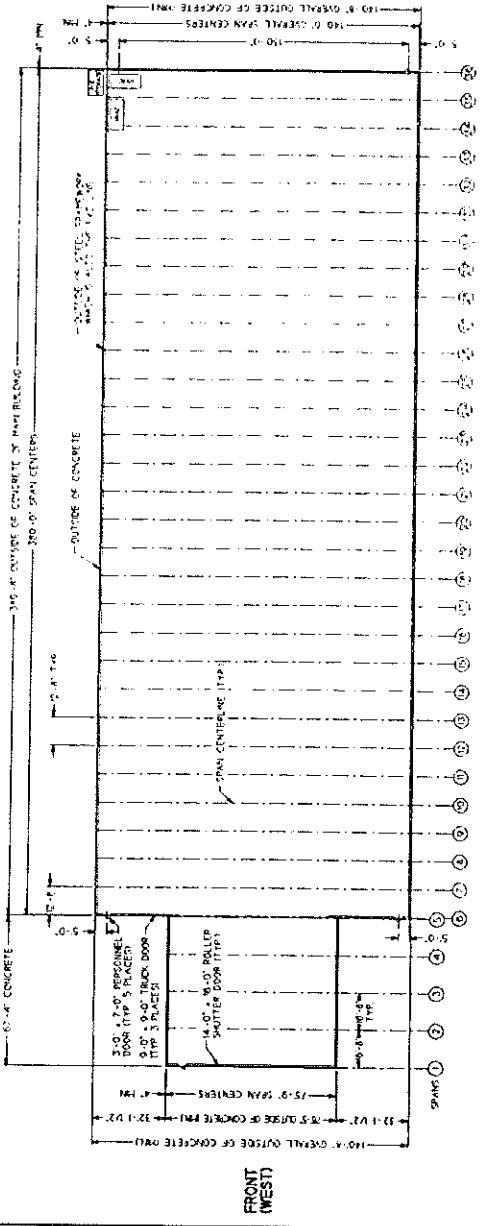
CONCRETE REINFORCING SCHEDULE

TYPE	DESCRIPTION	TYPE	DESCRIPTION
TYPE 'A'	FACE OF CONCRETE	TYPE 'B'	FACE OF CONCRETE
TYPE 'C'	FACE OF CONCRETE	TYPE 'D'	FACE OF CONCRETE
TYPE 'E'	FACE OF CONCRETE	TYPE 'F'	FACE OF CONCRETE
TYPE 'G'	FACE OF CONCRETE	TYPE 'H'	FACE OF CONCRETE
TYPE 'I'	FACE OF CONCRETE	TYPE 'J'	FACE OF CONCRETE
TYPE 'K'	FACE OF CONCRETE	TYPE 'L'	FACE OF CONCRETE
TYPE 'M'	FACE OF CONCRETE	TYPE 'N'	FACE OF CONCRETE
TYPE 'O'	FACE OF CONCRETE	TYPE 'P'	FACE OF CONCRETE
TYPE 'Q'	FACE OF CONCRETE	TYPE 'R'	FACE OF CONCRETE
TYPE 'S'	FACE OF CONCRETE	TYPE 'T'	FACE OF CONCRETE
TYPE 'U'	FACE OF CONCRETE	TYPE 'V'	FACE OF CONCRETE
TYPE 'W'	FACE OF CONCRETE	TYPE 'X'	FACE OF CONCRETE
TYPE 'Y'	FACE OF CONCRETE	TYPE 'Z'	FACE OF CONCRETE

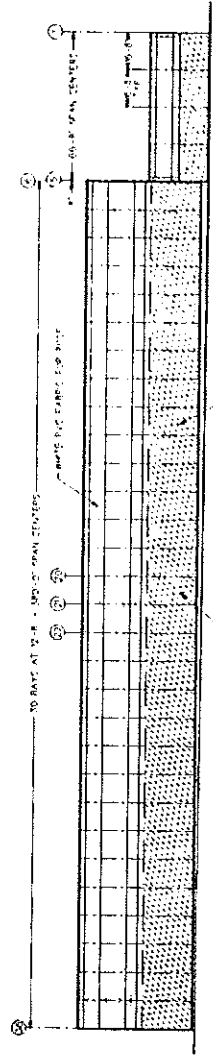
ANCHOR BOLT SCHEDULE

TYPE	DESCRIPTION	TYPE	DESCRIPTION
TYPE 'A'	FACE OF CONCRETE	TYPE 'B'	FACE OF CONCRETE
TYPE 'C'	FACE OF CONCRETE	TYPE 'D'	FACE OF CONCRETE
TYPE 'E'	FACE OF CONCRETE	TYPE 'F'	FACE OF CONCRETE
TYPE 'G'	FACE OF CONCRETE	TYPE 'H'	FACE OF CONCRETE
TYPE 'I'	FACE OF CONCRETE	TYPE 'J'	FACE OF CONCRETE
TYPE 'K'	FACE OF CONCRETE	TYPE 'L'	FACE OF CONCRETE
TYPE 'M'	FACE OF CONCRETE	TYPE 'N'	FACE OF CONCRETE
TYPE 'O'	FACE OF CONCRETE	TYPE 'P'	FACE OF CONCRETE
TYPE 'Q'	FACE OF CONCRETE	TYPE 'R'	FACE OF CONCRETE
TYPE 'S'	FACE OF CONCRETE	TYPE 'T'	FACE OF CONCRETE
TYPE 'U'	FACE OF CONCRETE	TYPE 'V'	FACE OF CONCRETE
TYPE 'W'	FACE OF CONCRETE	TYPE 'X'	FACE OF CONCRETE
TYPE 'Y'	FACE OF CONCRETE	TYPE 'Z'	FACE OF CONCRETE

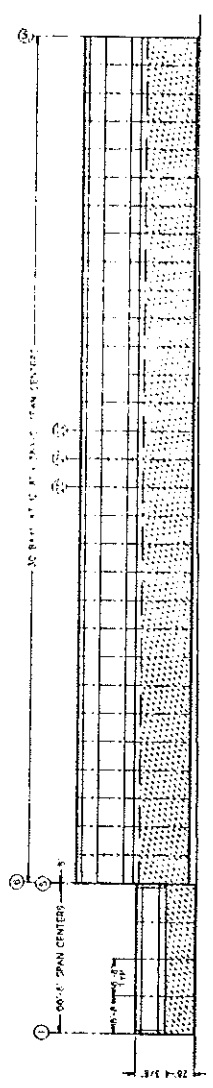
NOTES:
1) ALL CONCRETE SHALL BE FINISHED TO THE GRADE AND SHALL BE PROTECTED TO PREVENT DAMAGE TO THE SURFACE.
2) ALL REINFORCING SHALL BE AS PER THE SCHEDULE.
3) ALL ANCHOR BOLTS SHALL BE WELDED TO THE CONCRETE AT ALL JOINTS.



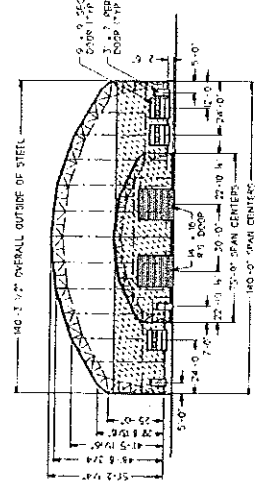
PLAN VIEW



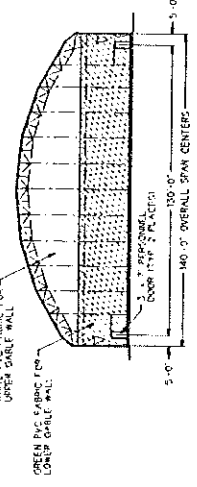
LEFT SIDE ELEVATION



RIGHT SIDE ELEVATION



FRONT ELEVATION

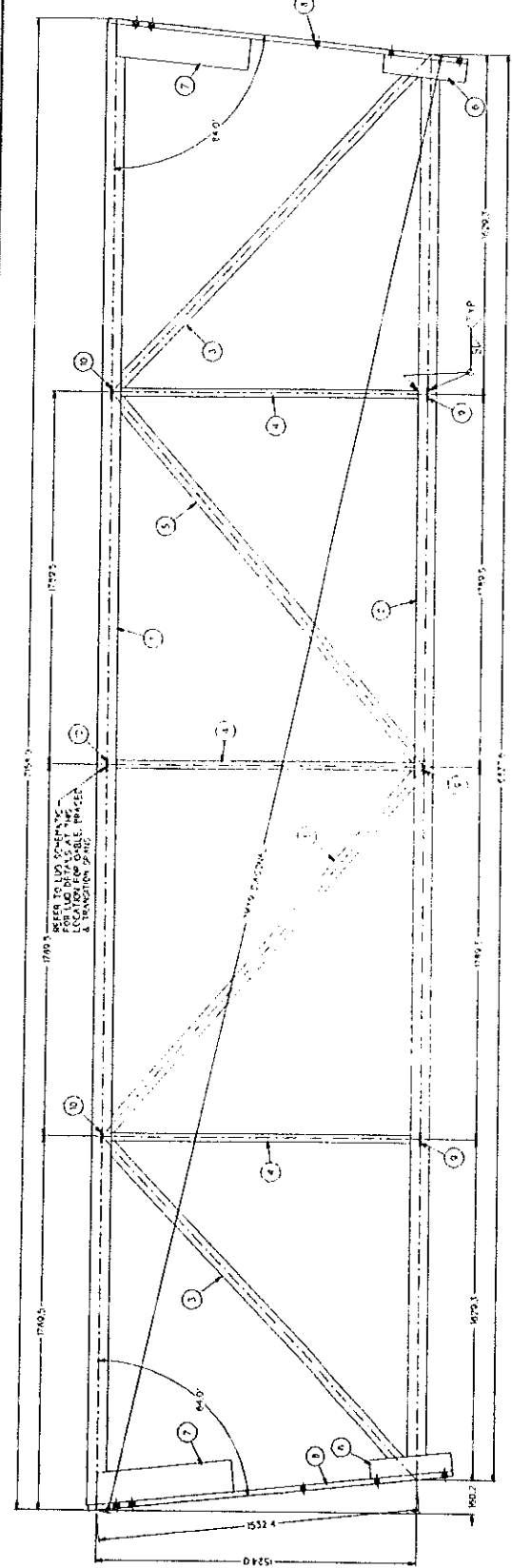


REAR ELEVATION

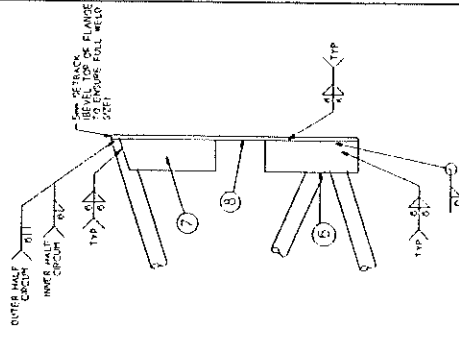
NOTE: COATING MATERIAL IS A RIG INTEGRATED POLYESTER RESIN FABRIC APPLIED TO STEEL TRUSS MEMBERS AND CALORNAUT OF THE WALLS. COATING TO BE APPLIED IN TWO COATS. COATING TO BE APPLIED TO ALL EXPOSED SURFACES OF STEEL TRUSS AND WALLS. COATING TO BE APPLIED TO ALL EXPOSED SURFACES OF STEEL TRUSS AND WALLS. COATING TO BE APPLIED TO ALL EXPOSED SURFACES OF STEEL TRUSS AND WALLS.

NO.	DESCRIPTION	DATE
1	ISSUED NORTH DOOR SECTION	11/15/00
2	ISSUED WEST DOOR SECTION	11/15/00
3	ISSUED REAR ELEVATION	11/15/00
4	ISSUED FRONT ELEVATION	11/15/00
5	ISSUED PLAN VIEW AND ELEVATIONS "RUBB"	11/15/00

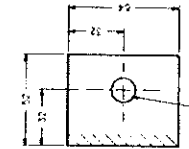
Mr. Robert H. Smith
 2115 N. 15th St., Suite 101
 Phoenix, AZ 85018
 TEL: 303-334-2527 FAX: 303-334-2527



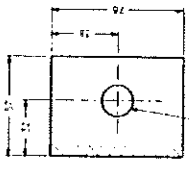
PEAK ROOF TRUSS
SCALE: 1/8" = 1'-0"



FLANGE & STIFFENER WELD DETAILS

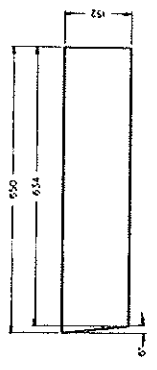


DETAIL ITEM 9
SCALE: 1/2" = 1'-0"

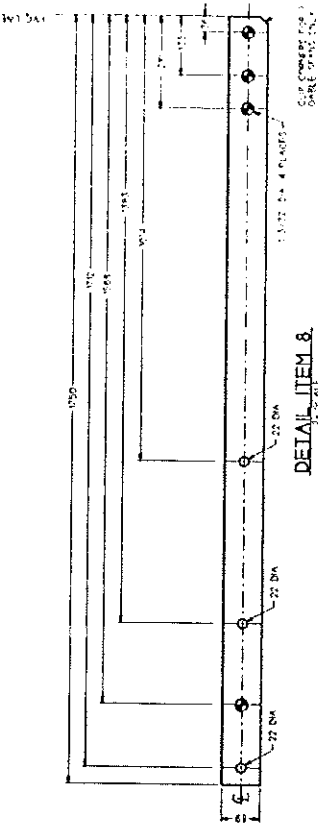


DETAIL ITEM 10
SCALE: 1/2" = 1'-0"

NO.	DESCRIPTION	QTY.	UNIT	REMARKS
1
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DETAIL ITEM 7
SCALE: 1/2" = 1'-0"

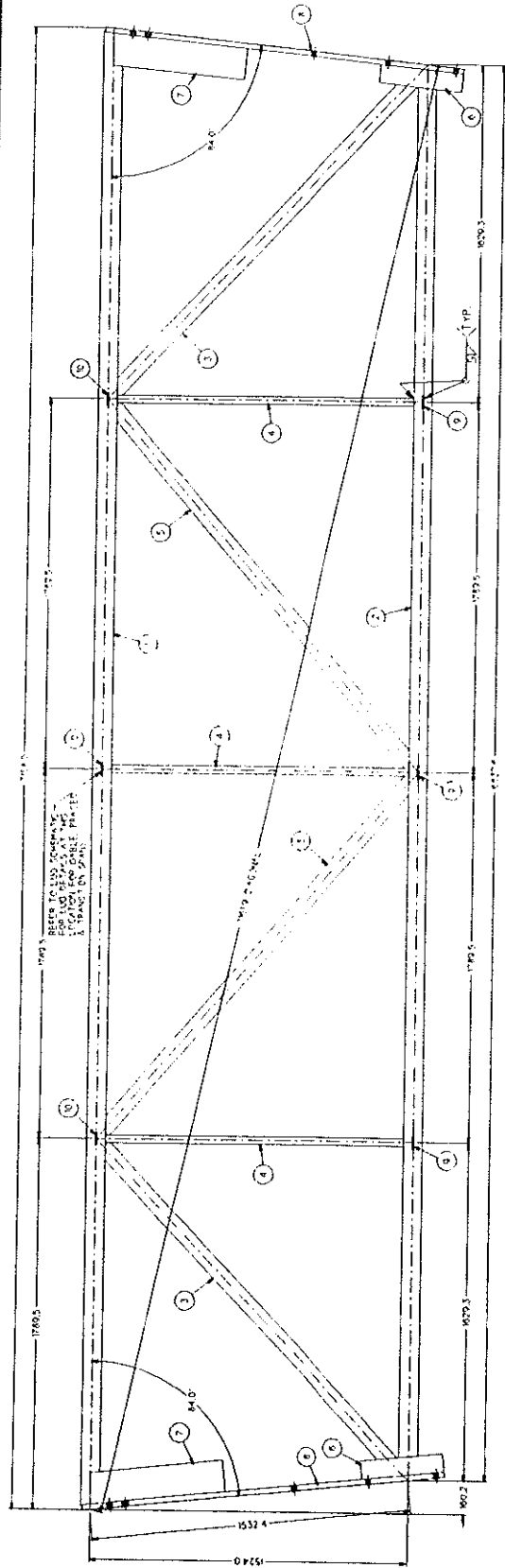


DETAIL ITEM 8
SCALE: 1/2" = 1'-0"

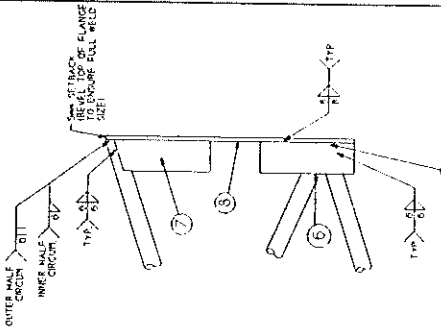
NOTES:
 1) SEE A. SHEET FOR DIMENSIONS FOR P.V.C.
 2) SEE DIMENSIONS FOR GEN. WELD NOTES.
 3) USE APPROPRIATE WELDING PROCEDURE FOR ALL WELDS.
 4) USE ALL DIMENSIONS AS REQUIRED FOR FABRICATION.
 5) ALL DIMENSIONS NOT LABELED WITH DIMENSIONS ARE IN MILLIMETERS.
 6) ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 7) ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

NO.	DESCRIPTION	QTY.	UNIT	REMARKS
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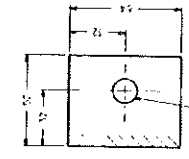
DATE: 10/15/00
 DRAWN BY: J. L. GIBSON
 CHECKED BY: J. L. GIBSON
 PROJECT: ...
 SHEET: ...



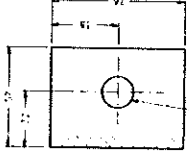
LOWER ROOF TRUSS



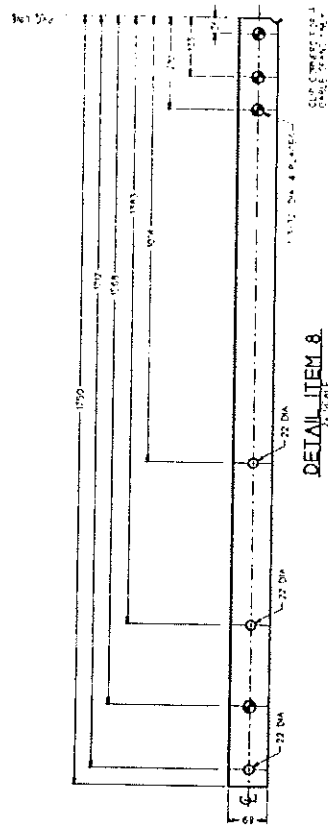
FLANGE & STIFFENER WELD DETAILS



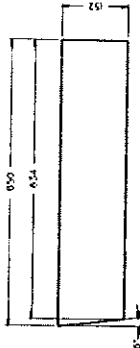
DETAIL ITEM 9



DETAIL ITEM 10



DETAIL ITEM 8



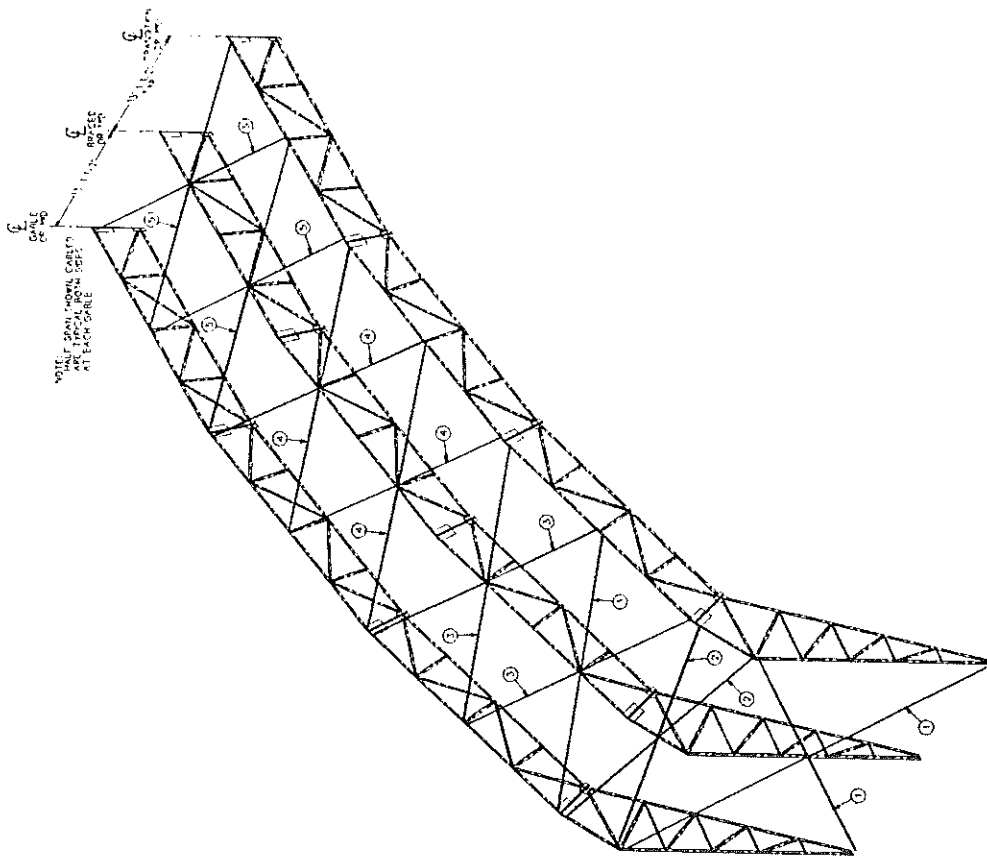
DETAIL ITEM 7

- 10) ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- 11) SEE DRAWING FOR ANY WELD NOTES.
- 12) SEE DRAWING FOR ANY WELD NOTES.
- 13) SEE DRAWING FOR ANY WELD NOTES.
- 14) ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- 15) ALL DIMENSIONS NOT LABELED WITH "TYP" ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- 16) ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

NO.	DESCRIPTION	QUANTITY	UNIT
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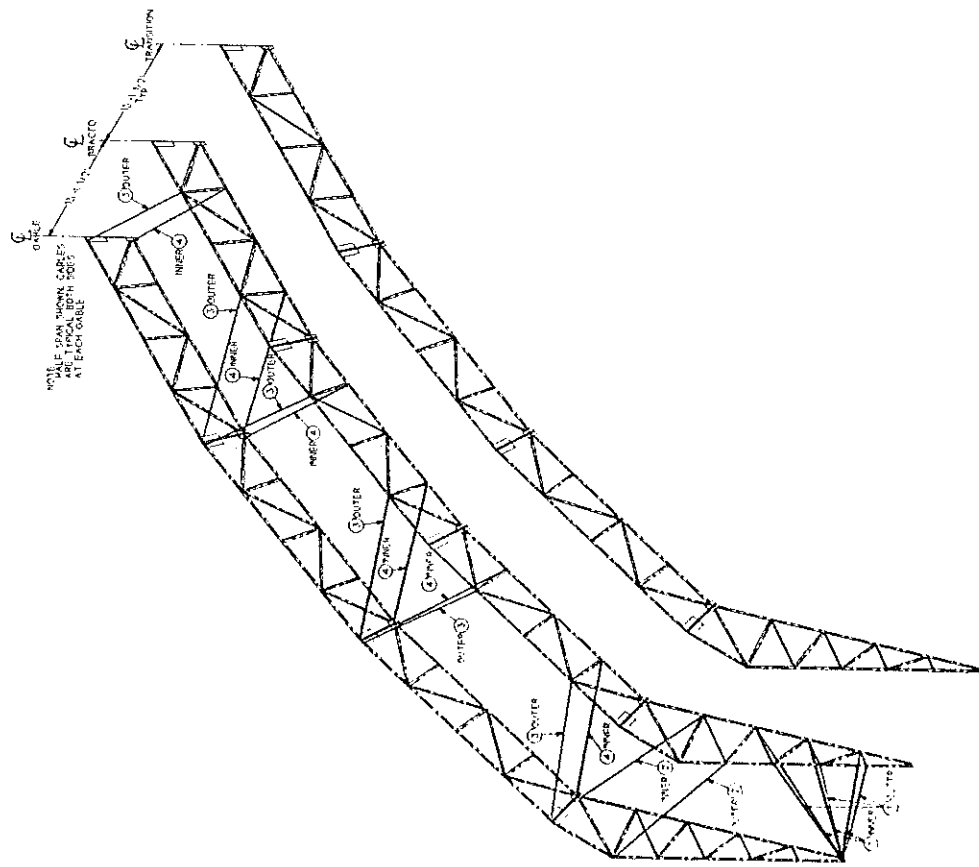
NO.	DESCRIPTION	QUANTITY	UNIT
1
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BLVD. MC. SAMPSON BLDG. 1000
 TEL. 703.524.3017 FAX 703.524.3047



WIND BRACING CABLES

MEMBER NO.	LENGTH (FT)	TYPE	QUANTITY
1	10.0	1/2" X 1/8"	2
2	10.0	1/2" X 1/8"	2
3	10.0	1/2" X 1/8"	2
4	10.0	1/2" X 1/8"	2
5	10.0	1/2" X 1/8"	2
6	10.0	1/2" X 1/8"	2
7	10.0	1/2" X 1/8"	2
8	10.0	1/2" X 1/8"	2
9	10.0	1/2" X 1/8"	2
10	10.0	1/2" X 1/8"	2
11	10.0	1/2" X 1/8"	2
12	10.0	1/2" X 1/8"	2



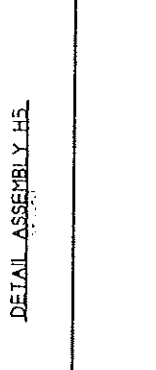
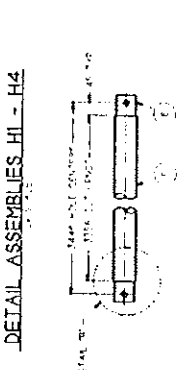
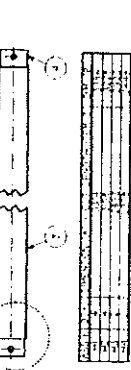
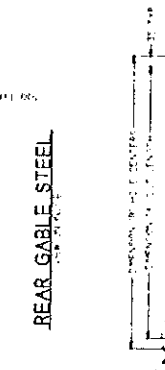
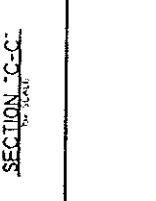
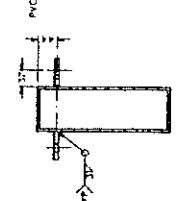
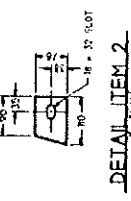
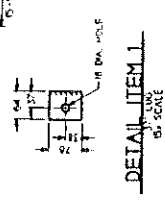
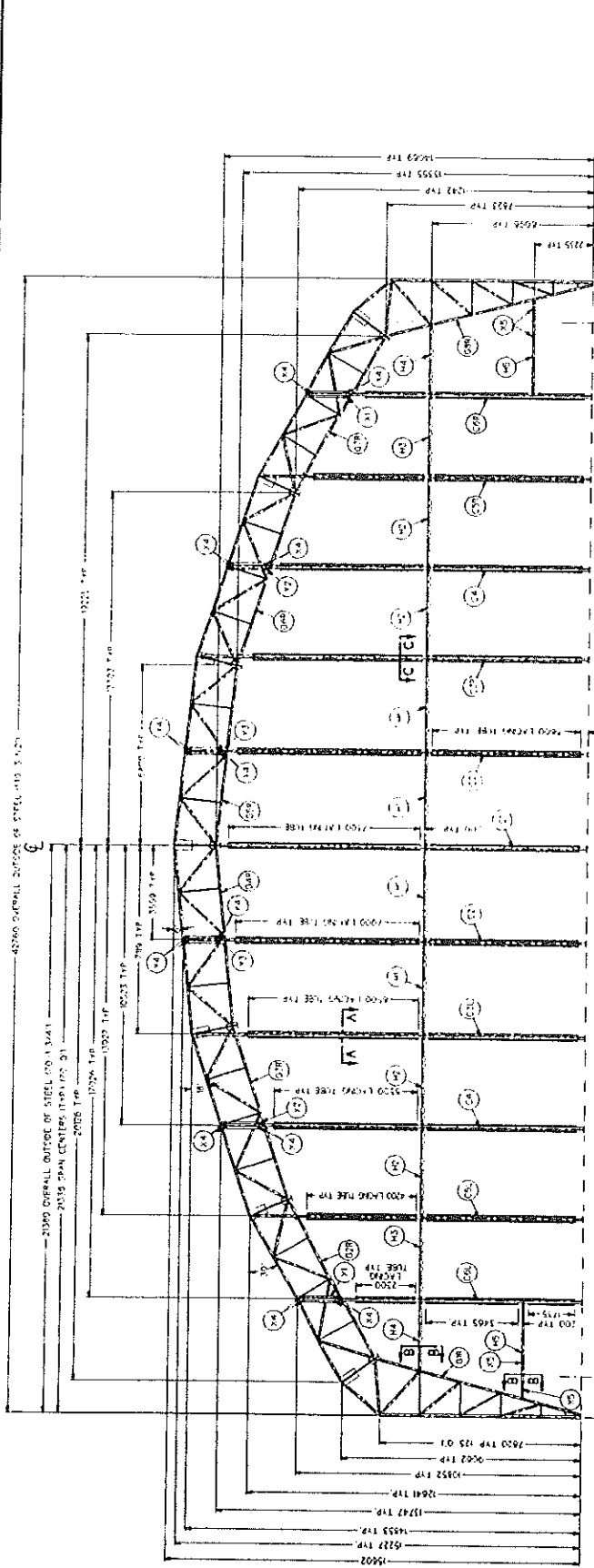
NODE RESTRAINTS

MEMBER NO.	LENGTH (FT)	TYPE	QUANTITY
1	10.0	1/2" X 1/8"	2
2	10.0	1/2" X 1/8"	2
3	10.0	1/2" X 1/8"	2
4	10.0	1/2" X 1/8"	2
5	10.0	1/2" X 1/8"	2
6	10.0	1/2" X 1/8"	2
7	10.0	1/2" X 1/8"	2
8	10.0	1/2" X 1/8"	2
9	10.0	1/2" X 1/8"	2
10	10.0	1/2" X 1/8"	2
11	10.0	1/2" X 1/8"	2
12	10.0	1/2" X 1/8"	2

NOTE: QUANTITY LISTED IS TOTAL QUANTITY REQUIRED.

REV.	DESCRIPTION	DATE	BY	CHK.
1	ISSUED FOR PERMITTING	02/25/88		
2	ISSUED FOR PERMITTING	02/25/88		
3	ISSUED FOR PERMITTING	02/25/88		

RUBE
 WIND BRACING & NODE RESTRAINT
 BUILDING SYSTEMS
 1000 S. 10TH ST.
 SUITE 100
 DENVER, CO 80202
 TEL: 303-534-2577 FAX: 303-534-2597



NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	STEEL SHEET PILING			
2	STEEL SHEET PILING			
3	STEEL SHEET PILING			
4	STEEL SHEET PILING			
5	STEEL SHEET PILING			
6	STEEL SHEET PILING			
7	STEEL SHEET PILING			
8	STEEL SHEET PILING			
9	STEEL SHEET PILING			
10	STEEL SHEET PILING			

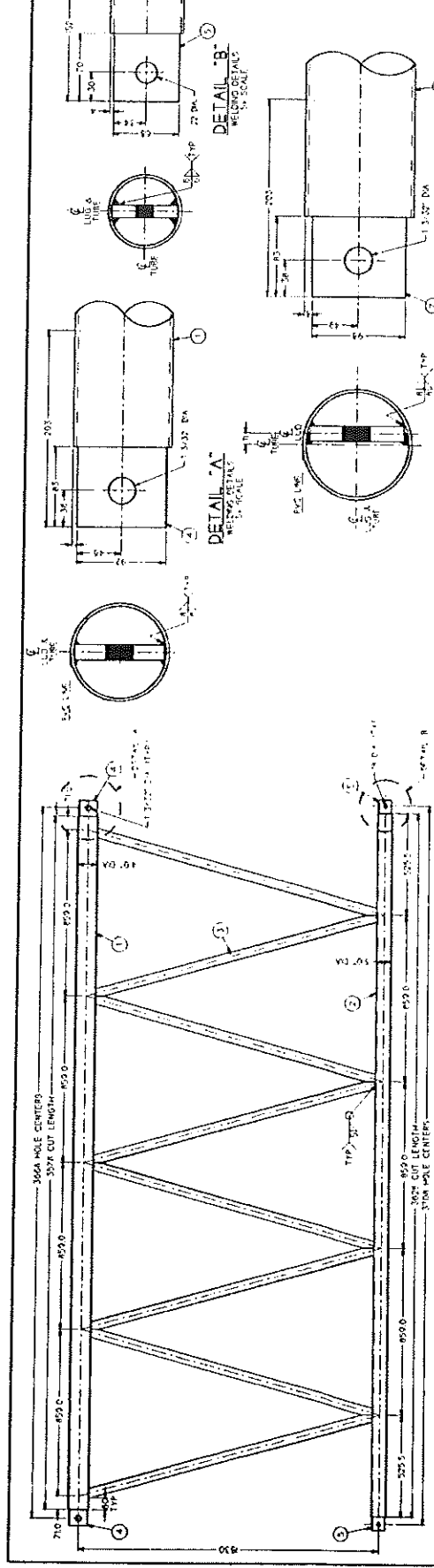
NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	STEEL SHEET PILING			
2	STEEL SHEET PILING			
3	STEEL SHEET PILING			
4	STEEL SHEET PILING			
5	STEEL SHEET PILING			
6	STEEL SHEET PILING			
7	STEEL SHEET PILING			
8	STEEL SHEET PILING			
9	STEEL SHEET PILING			
10	STEEL SHEET PILING			

NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	STEEL SHEET PILING			
2	STEEL SHEET PILING			
3	STEEL SHEET PILING			
4	STEEL SHEET PILING			
5	STEEL SHEET PILING			
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7	STEEL SHEET PILING			
8	STEEL SHEET PILING			
9	STEEL SHEET PILING			
10	STEEL SHEET PILING			

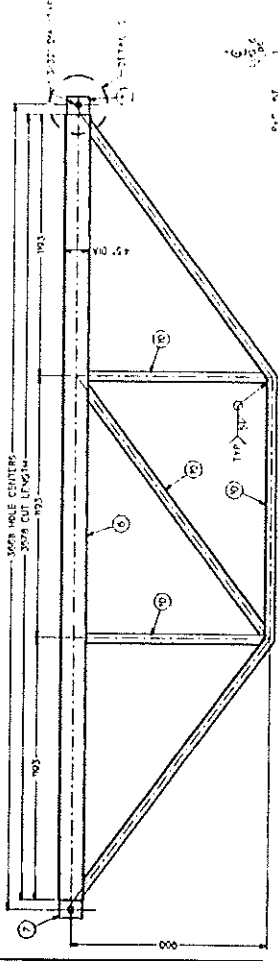
NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	STEEL SHEET PILING			
2	STEEL SHEET PILING			
3	STEEL SHEET PILING			
4	STEEL SHEET PILING			
5	STEEL SHEET PILING			
6	STEEL SHEET PILING			
7	STEEL SHEET PILING			
8	STEEL SHEET PILING			
9	STEEL SHEET PILING			
10	STEEL SHEET PILING			

REAR GABLE STEEL
 DRAWN BY: [Name]
 DATE: [Date]
 SCALE: [Scale]

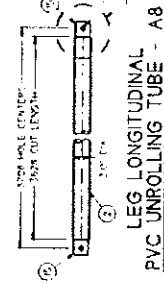
NOTES:
 1. REFER TO DRAWING FOR DIMENSIONS AND MATERIAL SPECIFICATIONS.
 2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE SPECIFIED.
 4. ALL DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
 5. ALL DIMENSIONS ARE TO SURFACE UNLESS OTHERWISE SPECIFIED.
 6. ALL DIMENSIONS ARE TO CENTER LINE UNLESS OTHERWISE SPECIFIED.
 7. ALL DIMENSIONS ARE TO CENTER POINT UNLESS OTHERWISE SPECIFIED.
 8. ALL DIMENSIONS ARE TO CENTER OF GRAVITY UNLESS OTHERWISE SPECIFIED.
 9. ALL DIMENSIONS ARE TO CENTER OF MASS UNLESS OTHERWISE SPECIFIED.
 10. ALL DIMENSIONS ARE TO CENTER OF AREA UNLESS OTHERWISE SPECIFIED.



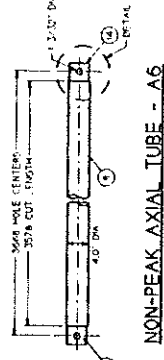
NON-PEAK AXIAL FRAME - A3



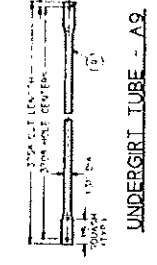
LEG BEND D-FRAME - A4



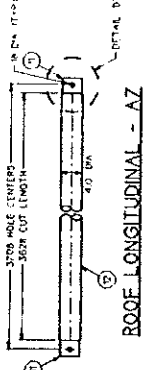
LEG LONGITUDINAL PVC UNROLLING TUBE - A8



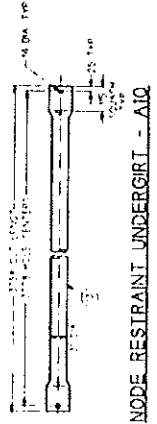
NON-PEAK AXIAL TUBE - A6



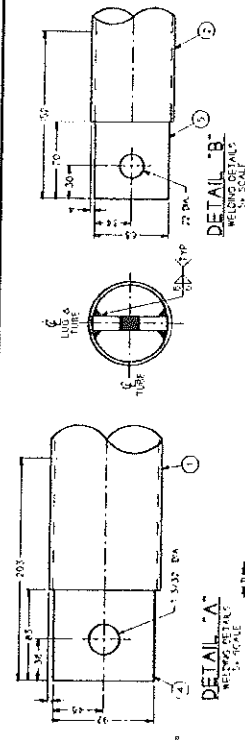
UNDERGIRT TUBE - A9



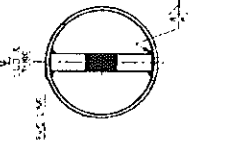
ROOF LONGITUDINAL - AZ



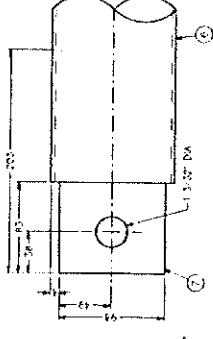
NODE RESTRAINT UNDERGIRT - A10



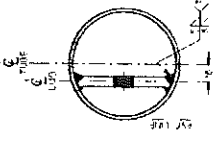
DETAIL A
RELATIVE DIMS.
1/4" SCALE



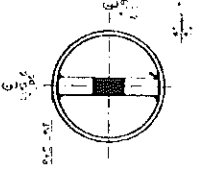
DETAIL B
RELATIVE DIMS.
1/4" SCALE



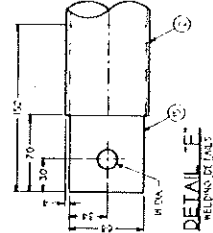
DETAIL C
RELATIVE DIMS.
1/4" SCALE



DETAIL D
RELATIVE DIMS.
1/4" SCALE



DETAIL E
RELATIVE DIMS.
1/4" SCALE

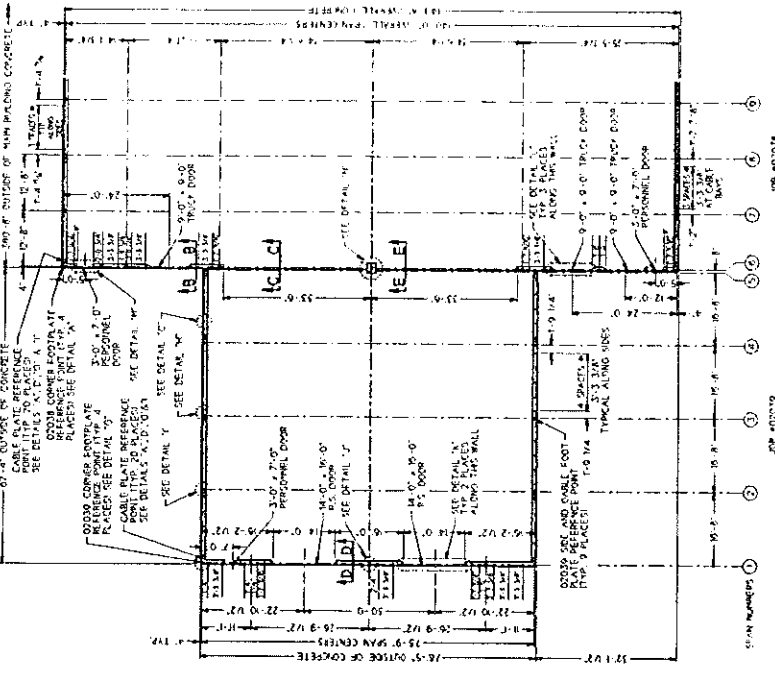


DETAIL F
RELATIVE DIMS.
1/4" SCALE

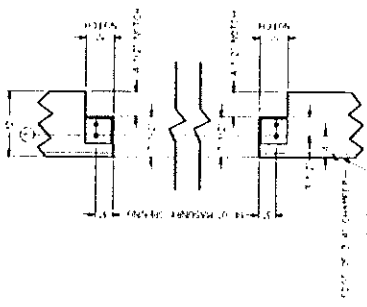
NOTES:
1) SEE DRAWING CENTER LINES FOR ALL HOLES.
2) ALL HOLES TO BE DRILLED TO SPECIFICATION OF EACH MANUFACTURER.
3) ALL HOLES TO BE DRILLED TO BEHIND THE MATERIAL TO BE DRILLED.
4) ALL HOLES TO BE DRILLED TO BEHIND THE MATERIAL TO BE DRILLED.
5) ALL HOLES TO BE DRILLED TO BEHIND THE MATERIAL TO BE DRILLED.

REV	DESCRIPTION	DRAWN BY	DATE
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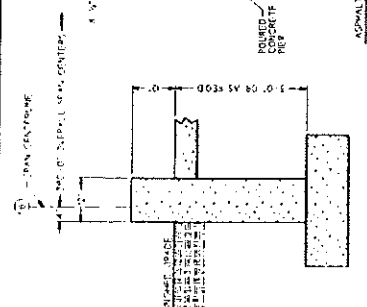
APPROVED FOR FABRICATION
DATE: 11-13-2003
DRAWN BY: J. D. ...
CHECKED BY: J. D. ...
SCALE: 1/4" = 1'-0"
PROJECT: ...



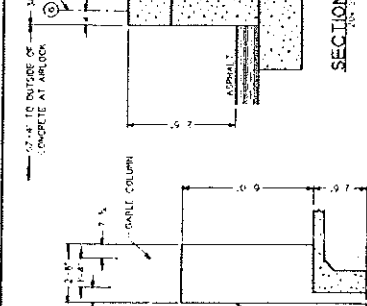
PARTIAL PLAN VIEW
1/4" SCALE



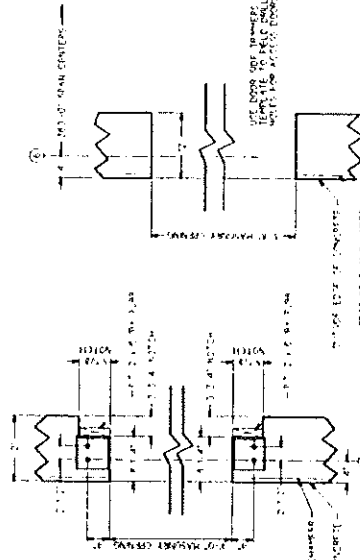
SECTION 'B-B'
1/4" SCALE



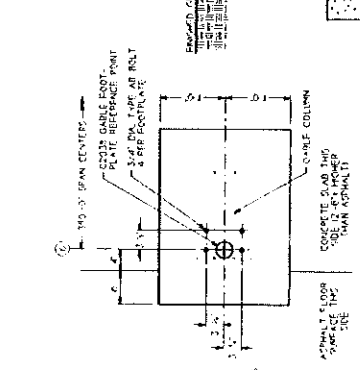
SECTION 'C-C'
1/4" SCALE



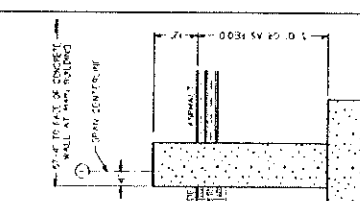
SECTION 'E-E'
1/4" SCALE



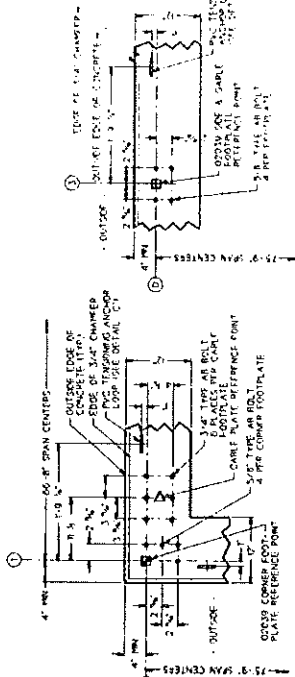
DETAIL 'M'
1/4" SCALE



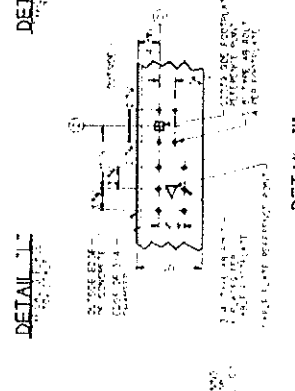
DETAIL 'N'
1/4" SCALE



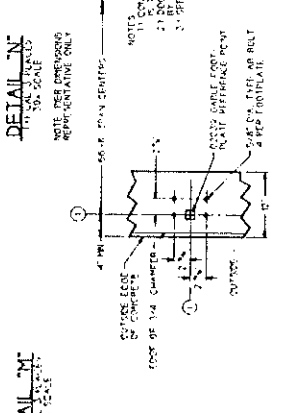
SECTION 'D-D'
1/4" SCALE



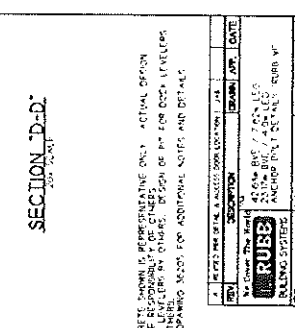
DETAIL 'G'
1/4" SCALE



DETAIL 'H'
1/4" SCALE



DETAIL 'I'
1/4" SCALE



DETAIL 'J'
1/4" SCALE

NO.	REVISION	DATE	BY	CHKD.	APP.	DATE
1	ISSUED FOR CONSTRUCTION	10/10/50
2
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Mr. Charles E. Smith
 2510 BUREAU BLVD.
 ST. LOUIS, MISSOURI 63103
 PHONE: 524-1111
 CABLE: CHAS. E. SMITH
 MAILING ADDRESS: 2510 BUREAU BLVD., ST. LOUIS, MISSOURI 63103

NOTES: CONCRETE WORK IS RESPONSIBLE ONLY. ACTUAL DESIGN IS THE RESPONSIBILITY OF CLIENTS.
 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 3. SEE DRAWING MADE FOR ADDITIONAL NOTES AND DETAILS.