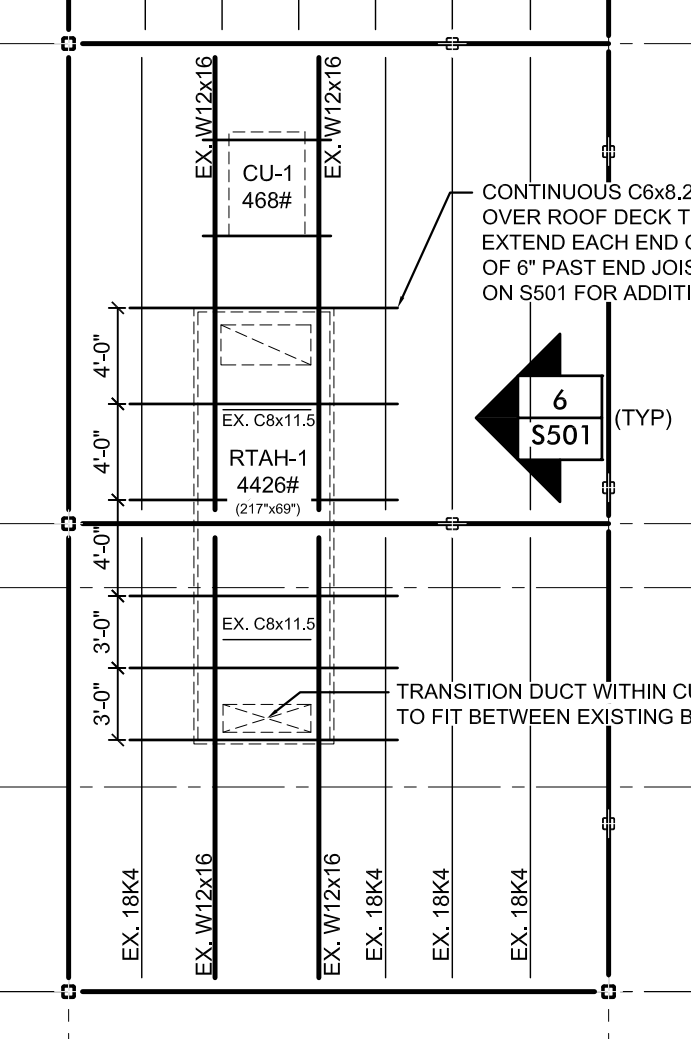
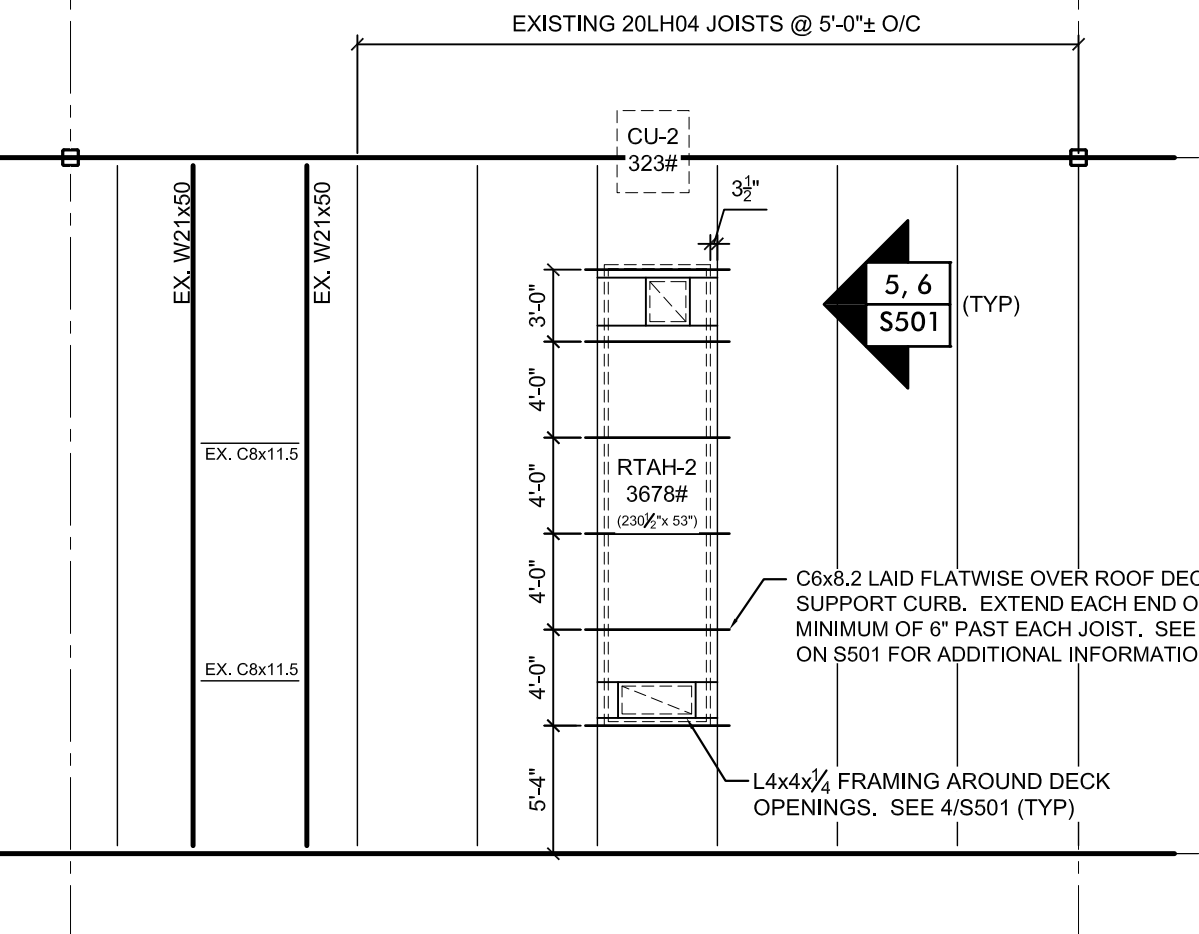


EQUIPMENT SHOWN HEREON MUST BE POSITIONED ON ROOF FRAMING AS DIMENSIONED HERE. ANY VARIATIONS IN POSITIONING, DIMENSIONS & WEIGHT OF EQUIPMENT MUST BE APPROVED BY ENGINEER-OF-RECORD PRIOR TO START OF ITS OPERATION.



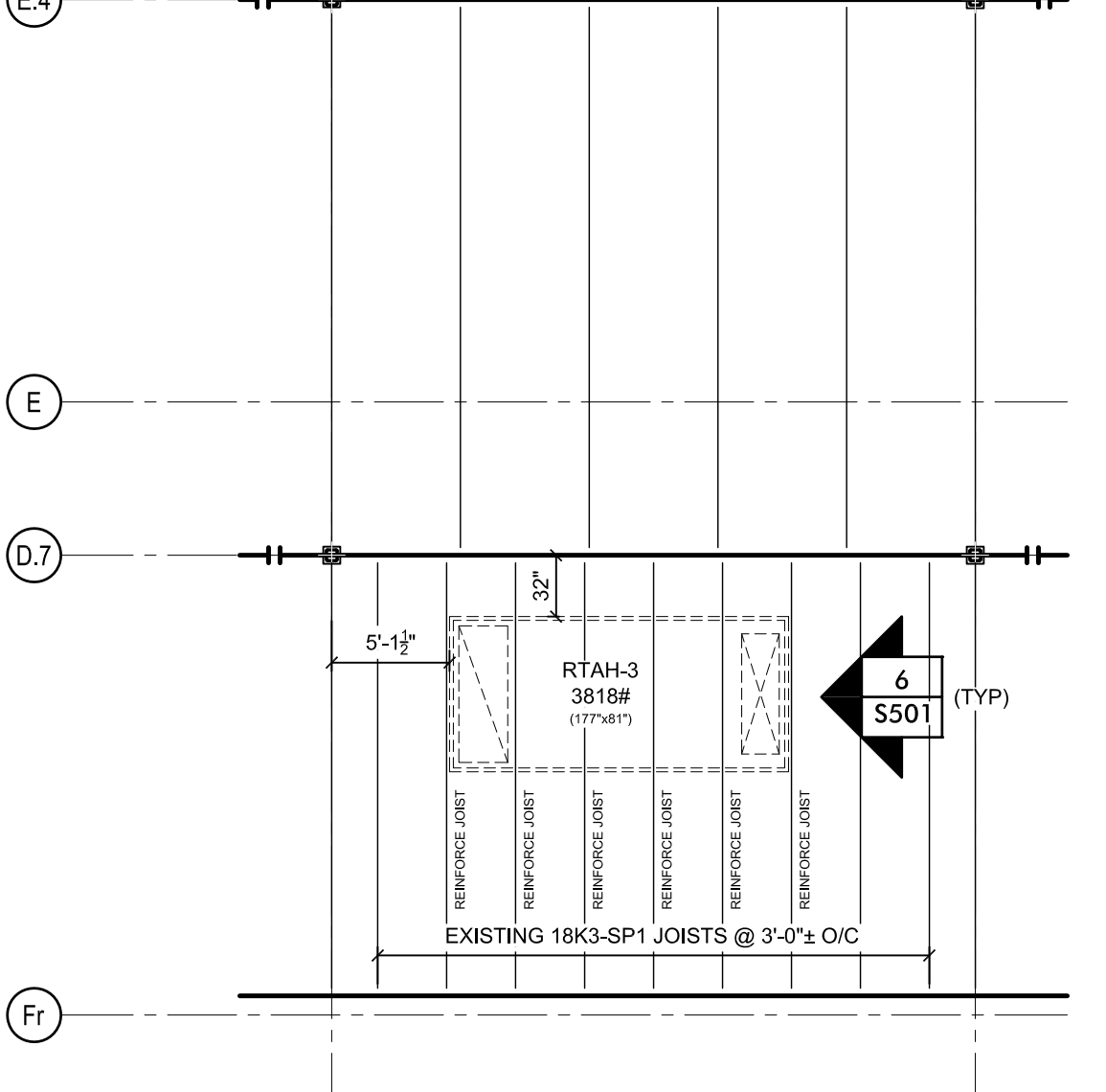
1 EXISTING ROOF FRAMING & PROPOSED MODIFICATIONS IN VICINITY OF RTAH-1  
Scale: 1/8" = 1'-0"

EQUIPMENT SHOWN HEREON MUST BE POSITIONED ON ROOF FRAMING AS DIMENSIONED HERE. ANY VARIATIONS IN POSITIONING, DIMENSIONS & WEIGHT OF EQUIPMENT MUST BE APPROVED BY ENGINEER-OF-RECORD PRIOR TO START OF ITS OPERATION.



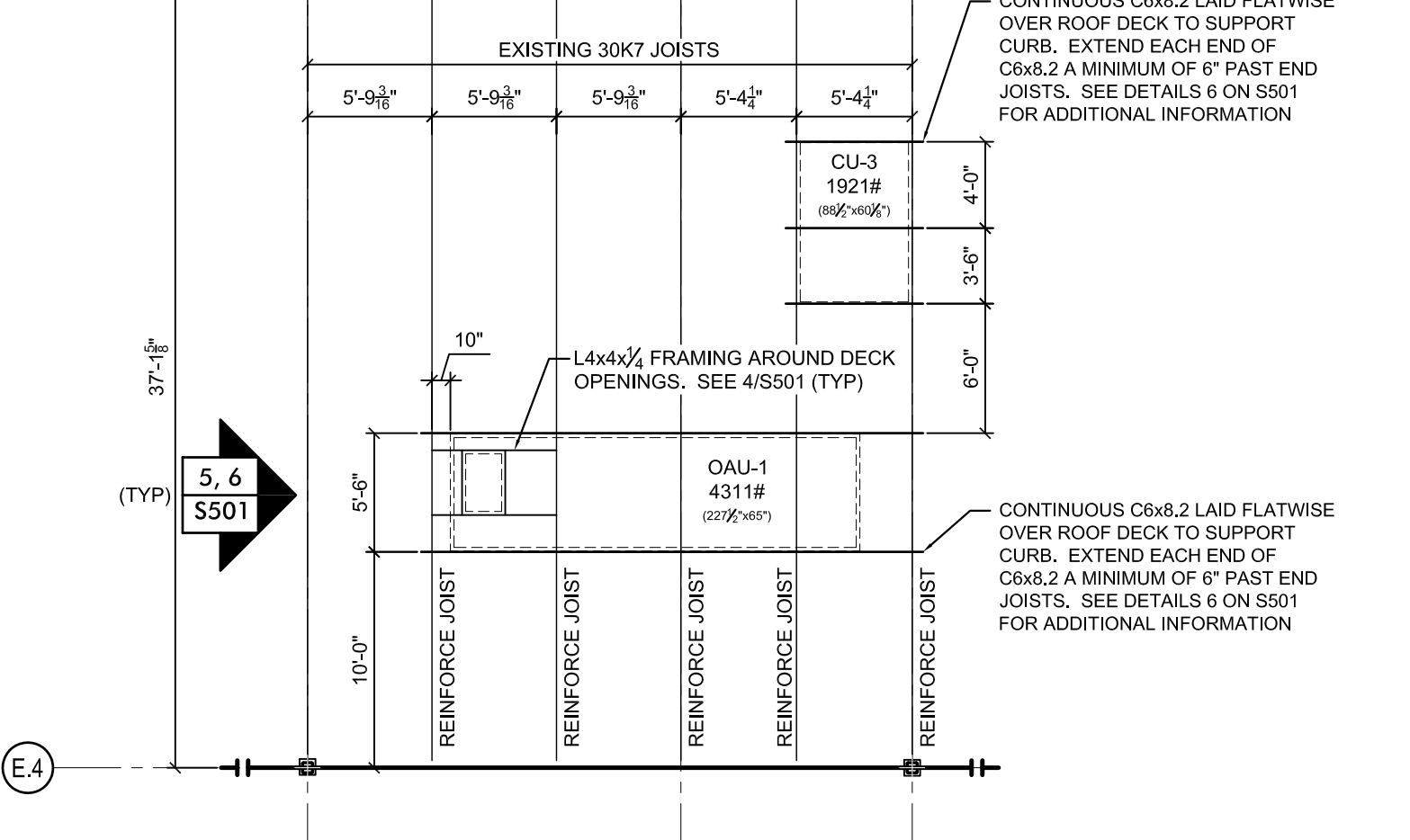
2 EXISTING ROOF FRAMING & PROPOSED MODIFICATIONS IN VICINITY OF RTAH-2  
Scale: 1/8" = 1'-0"

EQUIPMENT SHOWN HEREON MUST BE POSITIONED ON ROOF FRAMING AS DIMENSIONED HERE. ANY VARIATIONS IN POSITIONING, DIMENSIONS & WEIGHT OF EQUIPMENT MUST BE APPROVED BY ENGINEER-OF-RECORD PRIOR TO START OF ITS OPERATION.



3 EXISTING ROOF FRAMING & PROPOSED MODIFICATIONS IN VICINITY OF RTAH-3  
Scale: 1/8" = 1'-0"

EQUIPMENT SHOWN HEREON MUST BE POSITIONED ON ROOF FRAMING AS DIMENSIONED HERE. ANY VARIATIONS IN POSITIONING, DIMENSIONS & WEIGHT OF EQUIPMENT MUST BE APPROVED BY ENGINEER-OF-RECORD PRIOR TO START OF ITS OPERATION.



3 EXISTING ROOF FRAMING & PROPOSED MODIFICATIONS IN VICINITY OF OAU-1  
Scale: 1/8" = 1'-0"

**GENERAL**

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF ALL APPLICABLE STATE AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO:
  - INTERNATIONAL BUILDING CODE, 2009 EDITION
  - ANSI/ASCE 7-05
  - ASCE STEEL CONSTRUCTION MANUAL, 13TH EDITION
- ANY DISCREPANCIES BETWEEN THE ABOVE LISTED CODES AND THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH AFFECTED WORK.
- ALL WORK SHALL BE PERFORMED BY PERSONS QUALIFIED IN THEIR TRADE AND LICENSED TO PRACTICE SUCH TRADE IN STATE OF NEW YORK.
- THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH ANY ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS IN ADDITION TO SPECIFICATIONS AND ANY SHOP DRAWINGS PROVIDED BY SUBCONTRACTORS AND SUPPLIERS.
- ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS SHALL BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR (G.C.) AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED PART OF WORK.
- UNLESS OTHERWISE NOTED, DETAILS, SECTIONS, AND NOTES SHOWN ON THESE DRAWINGS SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR DETAILS.
- ALL SHOP DRAWINGS PROVIDED BY OTHERS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO THE FABRICATION OF MATERIAL OR THE PURCHASE OF NONFERROUS MATERIALS BY THE CONTRACTOR'S RESPONSIBILITY.
- ANY AND ALL TEMPORARY BRACING OR SHORING WHICH IS NEEDED TO HOLD THE STRUCTURE IN A SAFE AND STABLE POSITION UNTIL IT IS COMPLETE, IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CONSULT INDEPENDENT ENGINEER IF DESIGN ASSISTANCE OR REVIEW IS NEEDED.
- THE BUILDING PERMIT APPLICANT (I.E., OWNER, CONTRACTOR) MUST PROVIDE SPECIAL INSPECTIONS PER THE REQUIREMENTS OF CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE AND FURNISH INSPECTION REPORTS TO THE CODE OFFICIAL AND TO THE ENGINEER OF RECORD. THE TESTING/INSPECTION AGENCY(S) MUST BE APPROVED BY THE ENGINEER OF RECORD.

**REFERENCE DOCUMENTS**

- "ROOF FRAMING PLAN", DRAWING SS, PREPARED BY SURT, PORTLAND, MAINE, LAST REVISED FEBRUARY 2, 2011.

**STRUCTURAL STEEL**

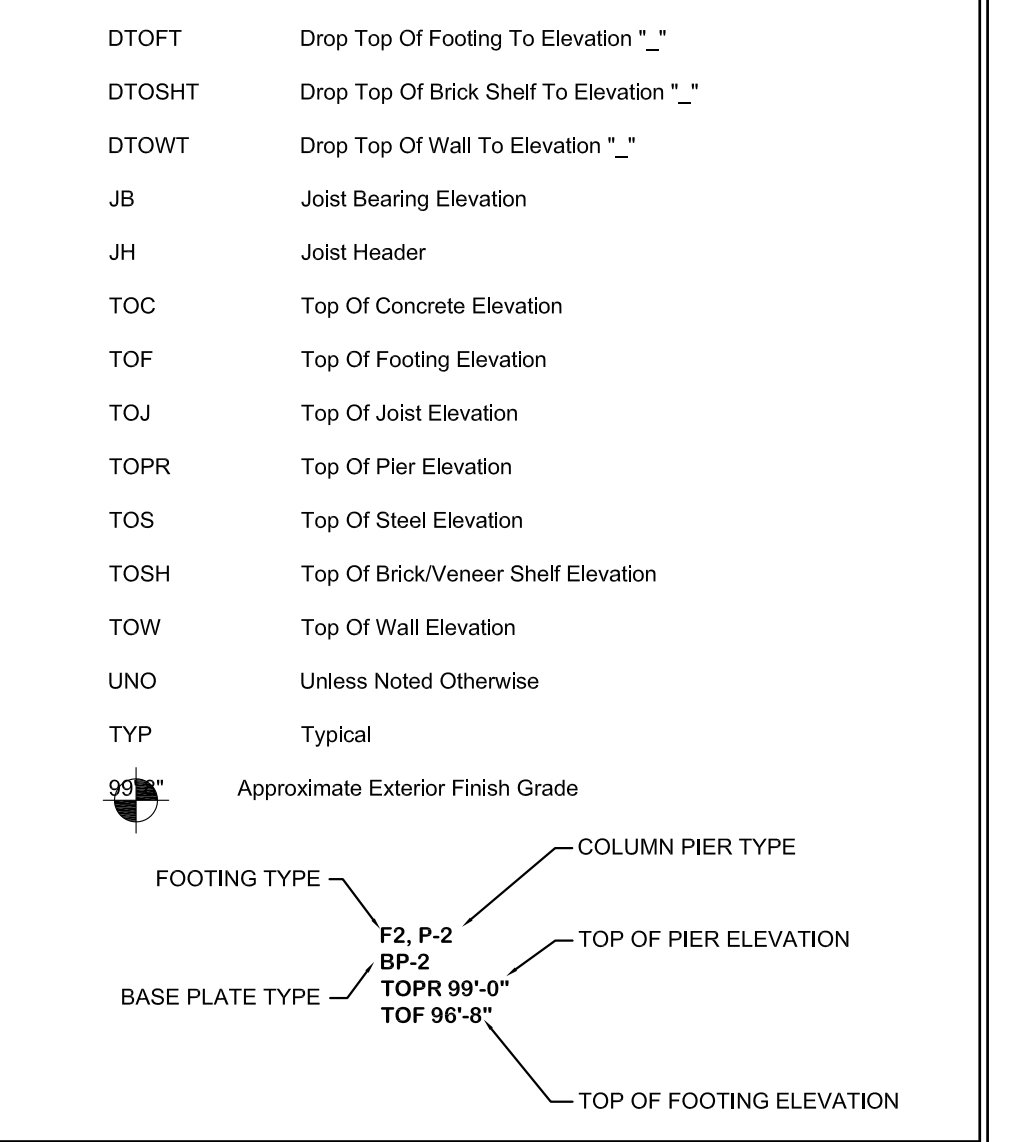
- STRUCTURAL STEEL WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2009 EDITION.
- STRUCTURAL STEEL WORK SHALL CONFORM TO SPECIFICATIONS FOR DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (ASCE CURRENT EDITION), "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS (ASCE CURRENT EDITION)", AND "STRUCTURAL WELDING CODE (AWS D1.1)".
- STRUCTURAL STEEL SHALL BE NEW STEEL CONFORMING TO THE FOLLOWING:
  - ROLLED SHAPES AND PLATES - ASTM A36 (EXCEPT AS NOTED BELOW)
  - WIDE FLANGE SHAPES - ASTM A992
  - STRUCTURAL TUBES - ASTM A500, GRADE B
  - ANCHOR RODS - HEADED RODS CONFORMING TO ASTM F306, GRADE 36
- ALL BOLTED CONNECTIONS SHALL USE NEW BOLTS. ALL BOLTS SHALL BE INSTALLED AS BEARING TO A "SNUG-TIGHTENED" CONDITION, UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL BOLTED CONNECTIONS SHALL BE DESIGNED, FABRICATED, AND INSTALLED IN COMPLIANCE WITH ROSS' SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, DATED JUNE 30, 2004.
- WELDED CONNECTIONS SHALL BE MADE BY AWS QUALIFIED WELDERS USING FILLER MATERIAL CONFORMING TO E70XX, LOW HYDROGEN.
- PROVIDE TEMPORARY ERECTION BRACING TO HOLD STRUCTURAL STEEL FRAMING SECURELY IN PLACE. MAINTAIN BRACING UNTIL FLOOR AND ROOF DECKS AND PERMANENT LATERAL BRACING ARE FULLY INSTALLED. TEMPORARY BRACING REQUIREMENTS ARE NOT PROVIDED BY THE I.B.C.
- STRUCTURAL STEEL SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED.
- FIELD CUTTING OF STRUCTURAL STEEL OR ANY MODIFICATIONS SHALL NOT BE MADE WITHOUT APPROVAL BY ENGINEER.

**BRICK VENEER LOOSE LINTEL SCHEDULE**

- UNLESS OTHERWISE INDICATED ON THE DRAWINGS PROVIDE AN ANGLE PLACED WITH LONG LEG VERTICAL FOR EACH 4" OF MASONRY THICKNESS FOR ALL MASONRY OPENINGS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:
 

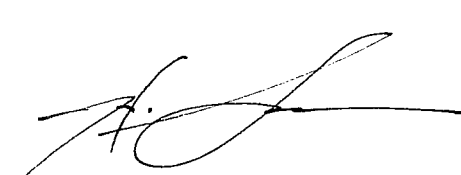
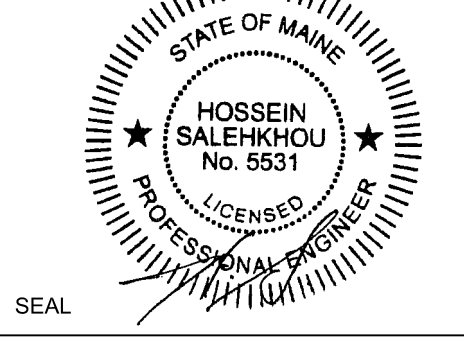
MAXIMUM CLEAR OPENING (LINTEL)	
UP TO 3'-5"	L 3-1/2 x 3-1/2 x 3/8"
3'-6" TO 4'-4"	L 4 x 3-1/2 x 3/8"
4'-7" TO 6'-0"	L 5 x 3-1/2 x 3/8"
6'-1" TO 8'-0"	L 6 x 3-1/2 x 3/8"
8'-1" TO 11'-0"	L 7 x 4 x 3/8"
- ALL LINTELS MUST BE HOT DIP GALVANIZED.
- LINTELS MUST BE 12" LONGER THAN MASONRY OPENING AND SHALL HAVE A MINIMUM OF 6" BEARING ON MASONRY AT EACH END, WHERE LINTEL ADJUTS A COLUMN PROVIDE A STRUCTURAL CLIP ANGLE CONNECTION.

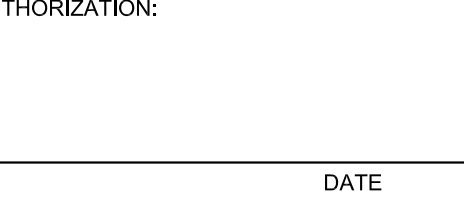
**LEGEND**



**SCHEDULE OF SPECIAL INSPECTIONS**

PROJECT: HANNAFORD SUPERMARKET & PHARMACY  
 LOCATION: FOREST AVENUE, PORTLAND, MAINE  
 OWNER: HANNAFORD BROS. CO., 145 PLEASANT HILL ROAD, SCARBOROUGH, MAINE 04074  
 ARCHITECT OF RECORD (AOR): JACOB ENGINEERING GROUP  
 STRUCTURAL ENGINEER OF RECORD (EOR): JSN ASSOCIATES, INC. / HOSEIN SALEHKHOU, P.E.  
 THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2009 EDITION. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT AS WELL AS THE NAME OF SPECIAL INSPECTORS AND THE IDENTITY OF OTHER APPROVED AGENCIES INTENDED TO BE RETAINED FOR CONDUCTING THESE SERVICES.  
 THE SPECIAL INSPECTOR MUST KEEP RECORDS OF ALL INSPECTIONS AND MUST FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER AND ARCHITECT OF RECORD. DISCOVERED DISCREPANCIES MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR.  
 A FINAL REPORT OF SPECIAL INSPECTIONS BY THE SPECIAL INSPECTOR(S) DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS MUST BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.  
 THE SPECIAL INSPECTOR, WHO IS GENERALLY EMPLOYED BY THE PRIMARY TESTING AGENCY, MAY USE VARIOUS INSPECTORS WHO ARE FAMILIAR WITH EACH CATEGORY OF WORK. IF SPECIAL INSPECTIONS ARE ALSO PERFORMED BY AGENTS WHO ARE NOT EMPLOYED BY PRIMARY TESTING AGENCY, EACH OF THESE ADDITIONAL SPECIAL INSPECTORS MUST ISSUE A FINAL REPORT FOR THEIR CATEGORY OF INSPECTION. ONLY AFTER THE FINAL REPORTS (HAS) BEEN ISSUED BY THE SPECIAL INSPECTOR(S) CAN THE AOR AND EOR ISSUE FINAL AFFIDAVITS FOR THE PROJECT COMPLETION.  
 JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

PREPARED BY:  DATE: 11/18/11 SEAL: 

HOSEIN SALEHKHOU, P.E.  
 OWNERS AUTHORIZATION: BUILDING OFFICIAL'S AUTHORIZATION:   
 SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**SCHEDULE OF SPECIAL INSPECTION SERVICES**

THE FOLLOWING TABLES COMPRISE THE REQUIRED SCHEDULE OF SPECIAL INSPECTIONS FOR THIS PROJECT. THE CONSTRUCTION DIVISIONS WHICH REQUIRE SPECIAL INSPECTIONS FOR THIS PROJECT ARE AS FOLLOWS:

- STRUCTURAL STEEL

INSPECTION AGENT	FIRM	ADDRESS
1. SPECIAL INSPECTOR	TBD	TBD
2. TESTING LABORATORY	TBD	TBD
3. STRUCTURAL ENGINEER	JSN ASSOCIATES, INC.	ONE ALUTURN STREET PORTSMOUTH, NH 03801 (603) 433-8639
4. COLD-FORMED METAL DESIGN ENGINEER	TBD	TBD

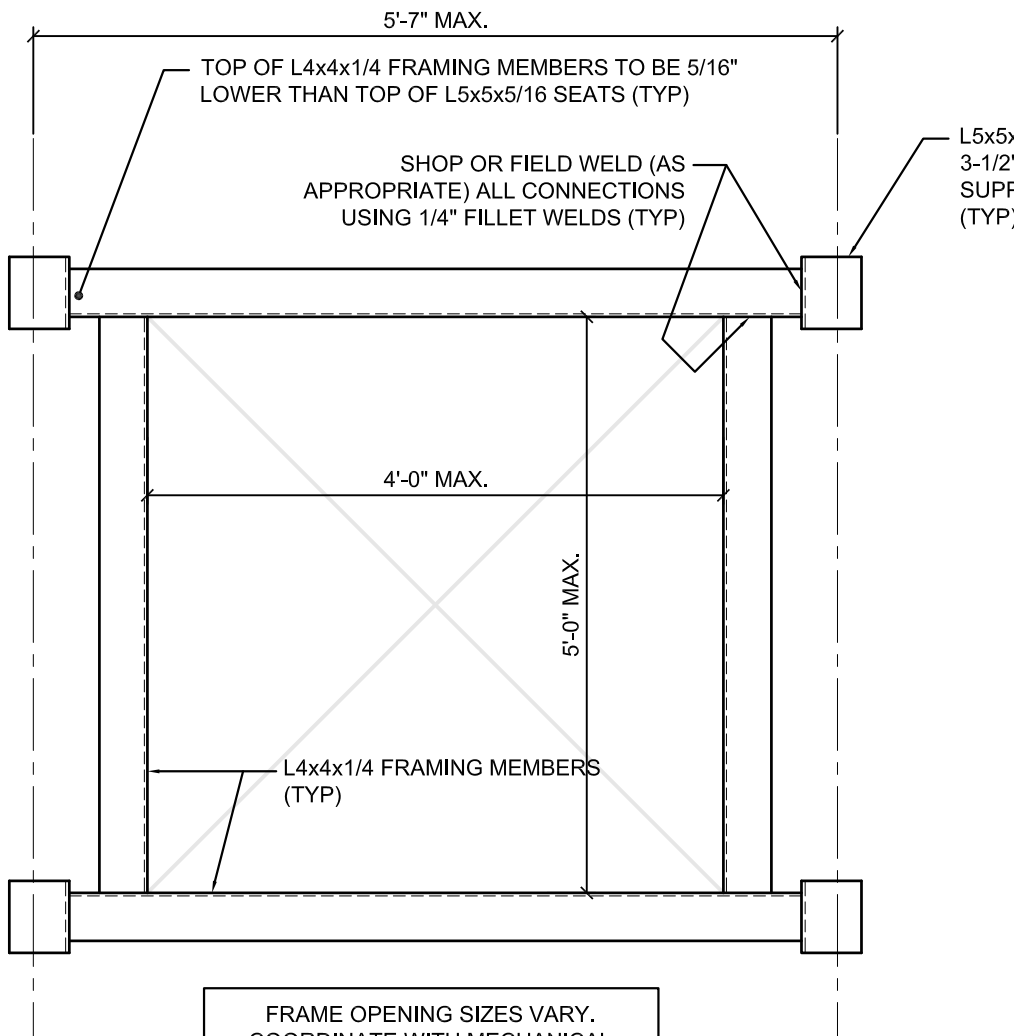
NOTE: THE INSPECTION AND TESTING AGENT MUST BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK.

**QUALIFICATIONS OF INSPECTORS / TESTING TECHNICIANS**

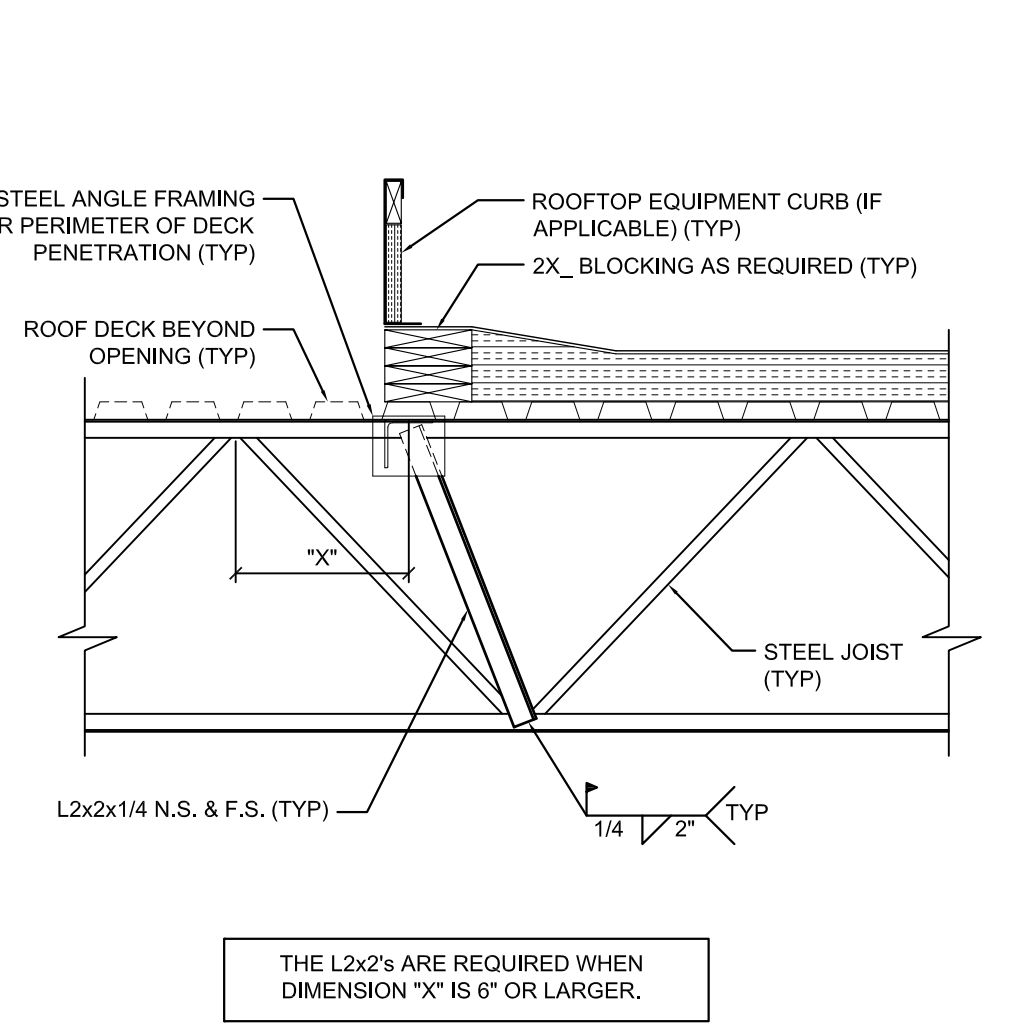
COMPLY WITH THE BUILDING CODE OF NEW YORK STATE, 2010 EDITION, SECTION 1704.1, FOR MINIMUM QUALIFICATIONS OF SPECIAL INSPECTORS. THE CREDENTIALS OF ALL INSPECTORS AND TESTING TECHNICIANS MUST BE PROVIDED IF REQUESTED.  
 KEY FOR MINIMUM QUALIFICATIONS OF INSPECTION AGENTS:  
 WHEN THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE DEEMS IT APPROPRIATE THAT THE INDIVIDUAL PERFORMING TEST OR INSPECTION HAVE A SPECIFIC CERTIFICATION OR LICENSE AS INDICATED BELOW, SUCH DESIGNATION SHALL APPEAR BELOW THE AGENCY NUMBER ON THE SCHEDULE.  
 AMERICAN WELDING SOCIETY (AWS) CERTIFICATION:  
 AWS-CWC - CERTIFIED WELDING INSPECTOR  
 AWS-SAB-C - CERTIFIED STRUCTURAL STEEL INSPECTOR  
 AMERICAN SOCIETY OF NON-DESTRUCTIVE TESTING (ASNT) CERTIFICATION:  
 ASNT - NON-DESTRUCTIVE TESTING TECHNICIAN - LEVEL II OR III  
 INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION:  
 ICC-SMB - STRUCTURAL MASONRY SPECIAL INSPECTOR  
 ICC-SWH - STRUCTURAL STEEL AND WELDING SPECIAL INSPECTOR  
 ICC-SFSI - SPRAY-APPLIED FIREPROOFING SPECIAL INSPECTOR  
 ICC-PCSI - PRESTRESSED CONCRETE SPECIAL INSPECTOR  
 ICC-RCIA - REINFORCED CONCRETE SPECIAL INSPECTOR

**STRUCTURAL STEEL, STEEL JOISTS & DECKS**

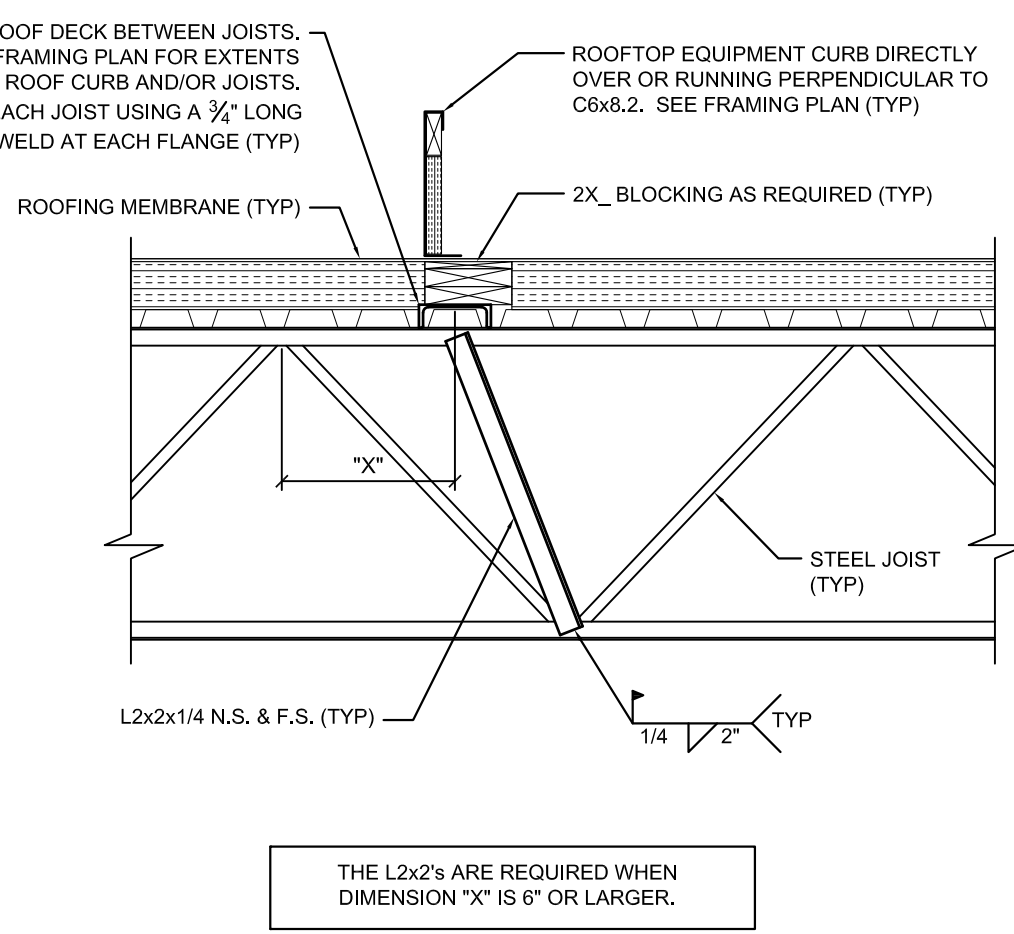
ITEM	AGENT NO. & QUALIFICATIONS	SCOPE & FREQUENCY
1. FABRICATOR CERTIFICATION AND QUALITY CONTROL PROCEDURES	TBD AWS-SAB-C-SS ICC-SWSI	REVIEW SHOP FABRICATION AND QUALITY CONTROL PROCEDURES.
2. MATERIAL CERTIFICATION	TBD AWS-SAB-C-SS ICC-SWSI	REVIEW CERTIFIED MILL TEST REPORTS AND IDENTIFICATION MARKINGS ON WIDE-FLANGE SHAPES, HIGH STRENGTH BOLTS, NUTS AND WELDING ELECTRODES.
3. OPEN WEB STEEL JOISTS	1 AWS-SAB-C-SS ICC-SWSI	INSPECT INSTALLATION, FIELD WELDING AND BRIDGING OF JOISTS. FREQUENCY - 100% OF ALL JOIST INSTALLATION & BRIDGING.
4. BOLTING	1 AWS-SAB-C-SS ICC-SWSI	INSPECT INSTALLATION AND TIGHTENING OF HIGH-STRENGTH BOLTS. VERIFY THAT SPUNES HAVE SEPARATED FROM TENSION CONTROL BOLTS. VERIFY PROPER TIGHTENING SEQUENCE. FREQUENCY - 25% OF BEARING-TYPE BOLTS, CONTINUOUS INSPECTION OF BOLTS IN CRITICAL CONNECTIONS.
5. WELDING	1 AWS-CWI ASNT	VISUALLY INSPECT ALL WELDS. INSPECT PRE-HEAT, POST-HEAT AND SURFACE PREPARATION BEFORE PASSES. VERIFY SIZE AND LENGTH OF FILLET WELDS. REVIEW WELDER QUALIFICATION STATEMENTS BY FABRICATOR AND ERECTOR. FREQUENCY - 100% SHOP & FIELD FILLET (5'-10" MULTI-PASS AND PARTIAL PENETRATION GROOVE WELDS MUST BE SPOT TESTED AT A RATE OF ONE (1) TEST PER MEMBER USING THE MAGNETIC PARTICLE TEST METHOD. 100% OF ALL SHOP & FIELD COMPLETE PENETRATION GROOVE WELDS MUST BE TESTED USING THE ULTRASONIC METHOD.
6. SHEAR CONNECTORS	1 AWS-SAB-C-SS ICC-SWSI	INSPECT SIZE, NUMBER, POSITIONING AND WELDING OF SHEAR CONNECTORS. INSPECT STUDS FOR FULL 360 DEGREE FLASH. FREQUENCY - VISUALLY INSPECT ALL RING TEST 20% WITH A 3-1/8 HAMMER, BEND TEST ALL QUESTIONABLE STUDS TO 15 DEGREES. IF ANY VISUALLY INSPECT ALL SHEAR STUD CONNECTIONS. SPOT TEST 10% OF ALL CONNECTIONS USING AN APPROVED TEST METHOD.
7. STRUCTURAL DETAILS	3 PEISE	VERIFY THAT THE GENERAL GEOMETRY OF THE ERRECTED STEEL FRAME CONFORMS TO THE CONSTRUCTION DOCUMENTS AND APPROVED SHOP DRAWINGS. FREQUENCY - TBD
8. METAL DECK	2 AWS-CWI	INSPECT WELDING AND SIDE LAP FASTENING OF METAL ROOF AND FLOOR DECK. VERIFY SIZE AND QUANTITY OF FASTENERS FOR CONFORMANCE WITH CONSTRUCTION DOCUMENTS. FREQUENCY - 100% OF FASTENING PATTERNS. SPOT-CHECK 10% OF ALL WORK FOR SIZE & TYPE OF FASTENERS.



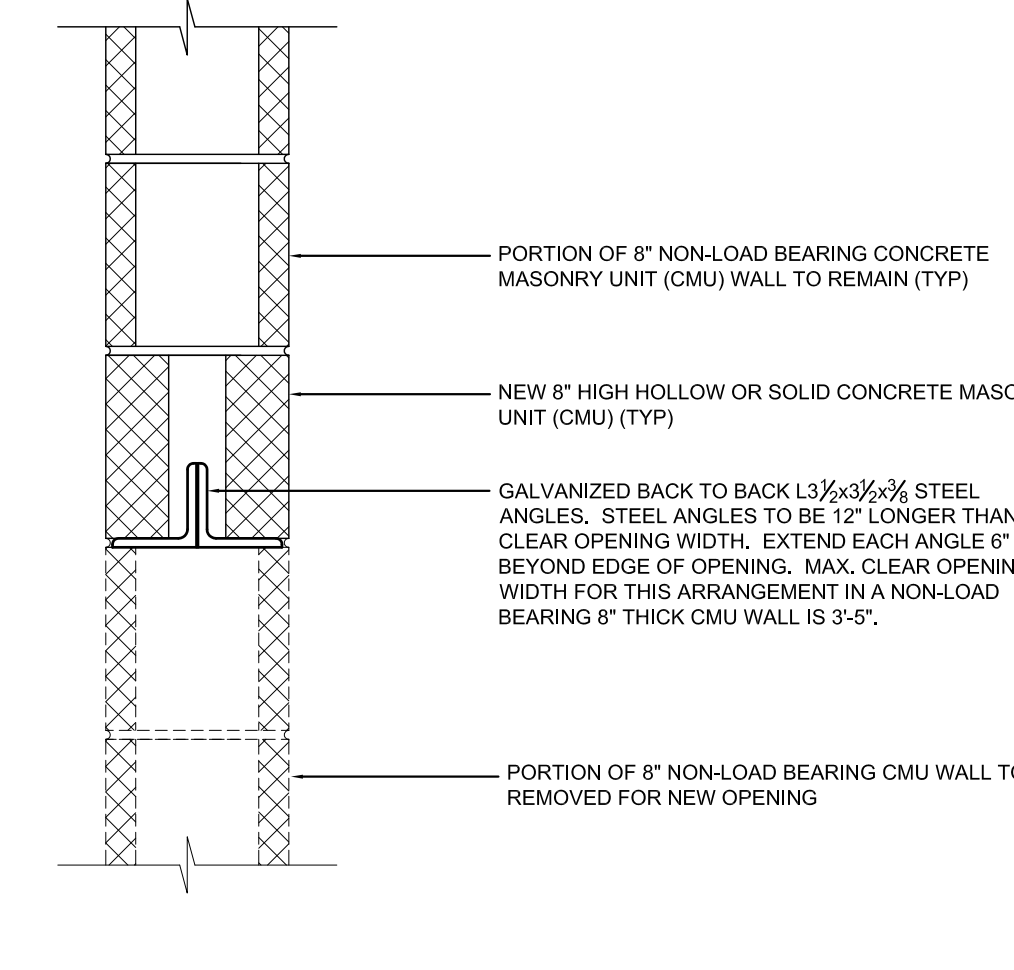
4 FRAMING REQUIREMENTS FOR ROOF DECK OPENINGS  
Scale: 3/4" = 1'-0"



5 JOIST REINFORCEMENT & CURB SUPPORT DETAIL  
Scale: 3/4" = 1'-0"



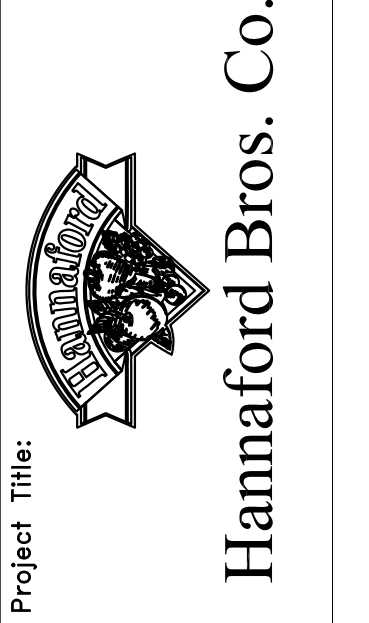
6 JOIST REINFORCEMENT & CURB SUPPORT DETAIL  
Scale: 3/4" = 1'-0"



7 SECTION THROUGH A TYPICAL OPENING IN A NON-LOAD BEARING 8' CMU WALL  
Scale: 1-1/2" = 1'-0"

No.	Date	ISSUED FOR CONSTRUCTION	ISSUED FOR REVISION
1	11/19/11	ISSUED FOR CONSTRUCTION	
0	10/27/11	ISSUED FOR REVISION	

REMODEL HANNAFORD SUPERMARKET & PHARMACY STORE #851 - 295 FOREST AVENUE PORTLAND, MAINE 04101



Prepared By: JSN Associates, Inc. One Aluturn Street Portsmouth, NH 03801 Phone: (603) 433-8639 Fax: (603) 433-8639 www.jsn.com

Structural Engineer of Record: JSN Associates, Inc. One Aluturn Street Portsmouth, NH 03801 MAINE LICENSED ENGINEER: 5533

Project Title: REMODEL HANNAFORD SUPERMARKET & PHARMACY STORE #851 - 295 FOREST AVENUE PORTLAND, MAINE 04101  
 Prepared By: JSN Associates, Inc.  
 Structural Engineer of Record: JSN Associates, Inc.  
 MAINE LICENSED ENGINEER: 5533

ROOF MODIFICATIONS & MISCELLANEOUS STRUCTURAL DETAILS  
 Scale: AS NOTED  
 Date: 10/18/11  
 Designed by: Hossein Salehkhrou  
 Drawn by: Hossein Salehkhrou  
 Checked by: Hossein Salehkhrou

Drawing No. S501  
 Project No.