

PLAN NOTES

1. REMOVE AND REPLACE EXISTING 2X10 JOIST FROM LEDGER AT MASONRY WALL TO EXIST. STUD BRG. WALL.
2. AT CONTRACTOR'S OPTION, EITHER REMOVE AND REPLACE EXISTING 2X10 JOIST FROM LEDGER AT MASONRY WALL TO EXIST. STUD BRG. WALL, OR ADD 2X10 SISTERED JOIST PER DETAIL <sup>B6</sup> (S-301) IF JOIST IS REMOVED AND REPLACED, THE ROOF SHEATHING SUPPORTED BY THE JOIST SHALL ALSO BE REPLACED.
3. REMOVE EXIST. INSULATION AND EVALUATE CONDITION OF EXIST. ROOF SHGT. NOTIFY ENGINEER. REPLACE SHGT. IF NECESSARY.
4. SEE DETAIL <sup>A6</sup> (S-301) WHERE ROOF SHEATHING IS TO BE REPLACED.

F2 ROOF FRAMING PLAN  
1/4" = 1'-0"

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VA FORM 08-6231

Revisions:	Date:

**ARCHITECT/ENGINEER OF RECORD**

**ALESIA ARCHITECTURE**

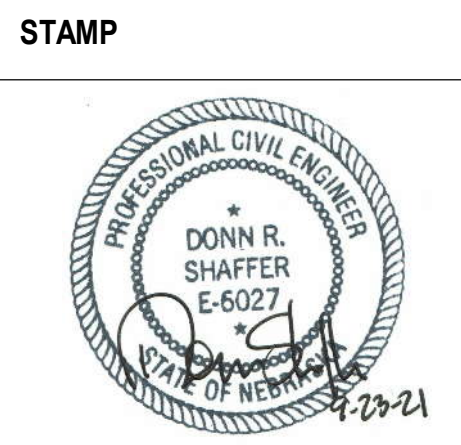
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**Office of Construction and Facilities Management**

**VA U.S. Department of Veterans Affairs**

Drawing Title  
**ROOF FRAMING PLAN**

Approved: \_\_\_\_\_

Phase  
**BID DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**Renovate and Repair Structural, Building 4**

Location  
**Wichita, KS**

Issue Date  
**9/23/2021**

Checked  
**DRS**

Drawn  
**MGJ**

Project Number  
**589A7-21-108**

Building Number  
**4**

Drawing Number  
**S-101**

**GENERAL STRUCTURAL NOTES**

**DESIGN CRITERIA:**

DESIGN CODE:	2021 IBC
SNOW LOAD:	
GROUND SNOW LOAD	Pg = 20 PSF
EXPOSURE FACTOR	Ce = 1.0
IMPORTANCE FACTOR	I = 1.0
RAIN ON SNOW (SLOPE =<1/2:12)	= 5 PSF
WIND LOAD:	
BASIC WIND SPEED	V = 110 MPH
EXPOSURE CATEGORY	B
SEISMIC LOAD:	
Ss	= 0.091
S1	= 0.055
IMPORTANCE FACTOR	I = 1.0
SOIL PROFILE TYPE	= SD
SEISMIC DESIGN CATEGORY	= B

**DELEGATED DESIGN ITEMS:**

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE FOLLOWING ITEMS (PERFORMED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF KANSAS):
- PRIMARY NON-STRUCTURAL ELEMENTS AND THEIR ATTACHMENTS THAT ARE ESSENTIAL FOR LIFE-SAFETY SYSTEMS OR ELEMENTS THAT CAN CAUSE SUBSTANTIAL INJURY IF FAILURE OCCURS, INCLUDING OVERHEAD HEAVY SUSPENDED COMPONENTS OR FIXTURES WEIGHING MORE THAN 31 LBS, BUT EXCLUDING DISTRIBUTED SYSTEMS SUCH AS SUSPENDED CEILING OR PIPING NETWORKS. SHALL BE ANCHORED WITH LATERAL TIES CAPABLE OF RESISTING A FORCE OF 1.5 TIMES ITS WEIGHT APPLIED IN ANY DIRECTION. MOUNTINGS MUST ALSO BE DESIGNED FOR FORCES REQUIRED BY OTHER CRITERIA SUCH AS SEISMIC STANDARDS.
  - MISCELLANEOUS EQUIPMENT SUPPORTS (E.G., FOR HANGING TRANSFORMERS)
- B. FOR ALL ITEMS LISTED AS DELEGATED DESIGN ITEMS, STAMPED ENGINEERING CALCULATIONS SHALL BE SUBMITTED FOR REVIEW AT THE SAME TIME THAT RELATED SHOP DRAWINGS ARE SUBMITTED FOR REVIEW.

**GENERAL PROJECT NOTES**

1. ALL DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OR CONSTRUCTION.
2. THE ARCHITECT SHALL BE NOTIFIED IN WRITING OF ANY EXISTING CONDITIONS WHICH DIFFER FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS.
3. THE ENGINEER WILL NOT ACCEPT SHOP DRAWINGS WITHOUT FIRST BEING REVIEWED AND SIGNED BY THE CONTRACTOR. ALL CHANGES SHALL BE FLAGGED AND NOTED AS DEVIATING FROM THE CONTRACT DOCUMENTS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE EXISTING BUILDING DURING THE EXECUTION OF THE CONTRACT.
5. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE SHORING AND BRACING TO PROTECT THE EXISTING STRUCTURE AND UNFINISHED NEW CONSTRUCTION.

**CONCRETE AND REINFORCING STEEL:**

1. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS UNLESS NOTED OTHERWISE.
2. ALL REINFORCING STEEL SHALL BE ASTM A-615, GRADE 60.

**MASONRY:**

1. ALL MORTAR SHALL CONFORM TO ASTM C-270, TYPE S OR M.
2. MORTAR ADMIXTURES ARE NOT ALLOWED WITHOUT APPROVAL OF THE ENGINEER.

**STRUCTURAL STEEL:**

1. STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITIONS.
2. ALL WIDE FLANGES SHALL BE ASTM A992, GRADE 50, UNLESS NOTED OTHERWISE. CHANNELS, ANGLES AND PLATE MATERIAL SHALL BE ASTM A36.
3. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS D.1.1, LATEST EDITION.
4. ALL WELDS SHALL BE MADE WITH E70 ELECTRODES.

**STRUCTURAL LUMBER AND CARPENTRY:**

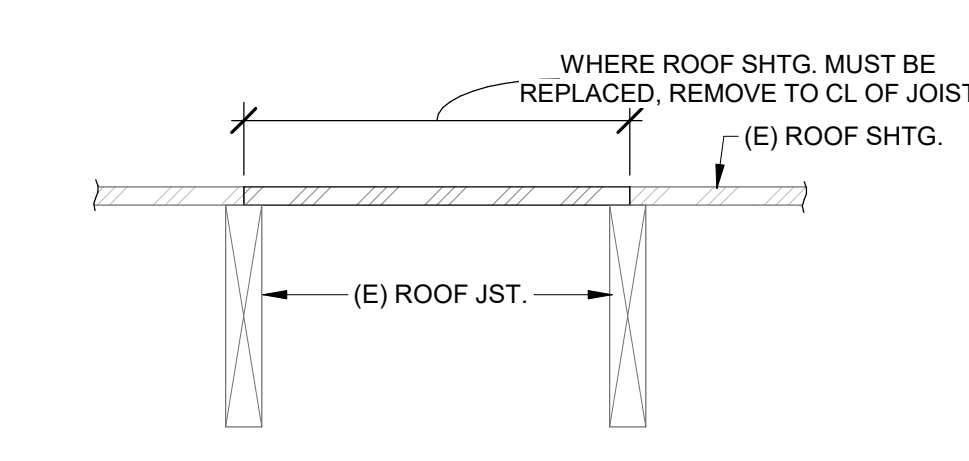
1. ALL STRESS GRADES AND DESIGN CRITERIA SHALL BE BASED ON THE NATIONAL DESIGN SPECIFICATION (2018 EDITION), TABLE 4A, PUBLISHED BY THE AMERICAN WOOD COUNCIL.
2. STRUCTURAL FRAMING LUMBER SHALL BE #2 SOUTHERN YELLOW PINE, TREATED.
3. PROVIDE TREATED MEMBERS IN CONTACT WITH CONCRETE OR CMU.
4. ALL LUMBER SHALL HAVE A MOISTURE CONTENT NOT GREATER THAN 19% AND SHALL BE SMOOTH ON ALL 4 SIDES (S4S).
5. PROVIDE ONE HEAVY GALVANIZED WASHER UNDER ALL BOLTS WHERE A PLATE WASHER IS NOT SHOWN.
6. ROOF SHEATHING SHALL BE 23/32" PLYWOOD, SHALL BE APA RATED, AND SHALL HAVE AN EXPOSURE CLASSIFICATION OF EXPOSURE 1.
7. ROOF SHEATHING SHALL BE LAID WITH LONG DIMENSION ACROSS FRAMING MEMBERS AND WITH SHORT DIMENSION PANEL EDGES CENTERED ON A FRAMING MEMBER. SHEATHING SHALL BE NAILED WITH GALVANIZED 12d NAILS AT 4" O.C. AT ALL PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND AT 4" O.C. AT ALL INTERMEDIATE FRAMING MEMBERS.
8. ALL METAL HANGERS AND CONNECTIONS SHALL BE MANUFACTURED BY SIMPSON COMPANY OR AN APPROVED EQUAL.
9. ALL FASTENERS (NAILS, BOLTS, ETC) IN TREATED LUMBER SHALL BE GALVANIZED UNLESS THE SUPPLIER REQUIRES THEM TO BE STAINLESS STEEL. THE CONTRACTOR SHALL VERIFY THIS REQUIREMENT. ALL LIGHTGAGE HANGERS, STRAPS AND TIES WHICH ARE IN CONTACT WITH TREATED LUMBER SHALL BE GALVANIZED.

**FASTENERS:**

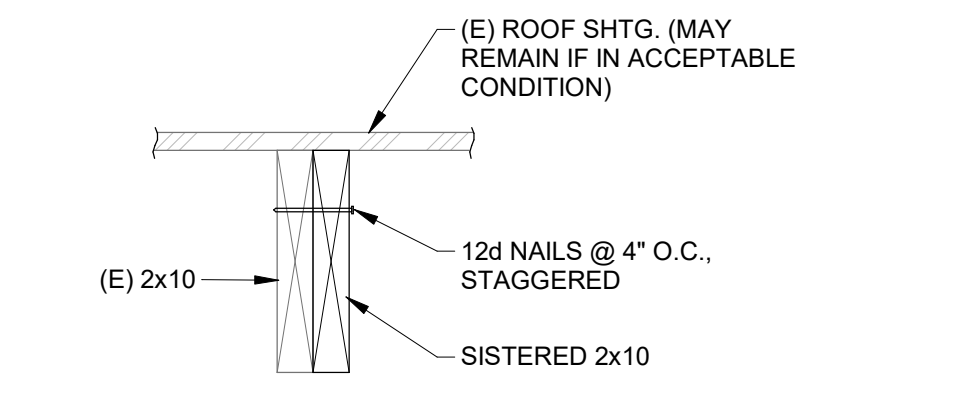
1. ALL EXPANSION ANCHORS SHALL BE THE SIZE AND EMBEDMENT AS SHOWN ON THE DRAWINGS. WHEN EMBEDMENT IS NOT SHOWN ON THE DRAWINGS, THE EMBEDMENT SHALL BE THE STANDARD EMBEDMENT AS RECOMMENDED BY THE MANUFACTURER.
2. THE PLACEMENT OF EXPANSION BOLTS IN MASONRY HEAD JOINTS OR T JOINTS SHALL BE AVOIDED IF POSSIBLE. EXPANSION BOLTS SHALL HAVE A MINIMUM OF 8" OF GROUT AROUND ALL SIDES OF THE BOLTS.
3. APPROVED EXPANSION ANCHORS SHALL BE:
  - a. KWIK BOLT 3 EXPANSION ANCHOR BY HILTI,
  - b. TRUBOLT WEDGE ANCHOR BY ITW RAMSET / REDHEAD,
  - c. OR AN APPROVED EQUAL.
4. ALL ADHESIVE ANCHORS SHALL BE THE SIZE AND EMBEDMENT AS SHOWN ON THE DRAWINGS. WHEN EMBEDMENT IS NOT SHOWN ON THE DRAWINGS, THE EMBEDMENT SHALL BE THE STANDARD EMBEDMENT AS RECOMMENDED BY THE MANUFACTURER.
5. APPROVED ADHESIVE ANCHORS SHALL BE:
  - a. HY-200 INJECTION ADHESIVE ANCHOR INTO SOLID CONCRETE OR SOLID MASONRY BLOCK, BY HILTI,
  - b. HY-70 INJECTION ADHESIVE ANCHOR WITH SCREEN TUBE INTO HOLLOW MASONRY BLOCK OR SOLID BRICK WITH VOIDS, BY HILTI,
  - c. EPCON ADHESIVE ANCHOR SYSTEM WITH CERAMIC EPOXY INTO SOLID CONCRETE OR SOLID MASONRY, BY ITW RAMSET / REDHEAD,
  - d. EPCON ADHESIVE ANCHOR SYSTEM WITH CERAMIC EPOXY WITH SCREEN TUBES INTO HOLLOW MASONRY BLOCK OR SOLID BRICK WITH VOIDS, BY ITW RAMSET / REDHEAD,
  - e. OR AN APPROVED EQUAL.

**DEMOLITION:**

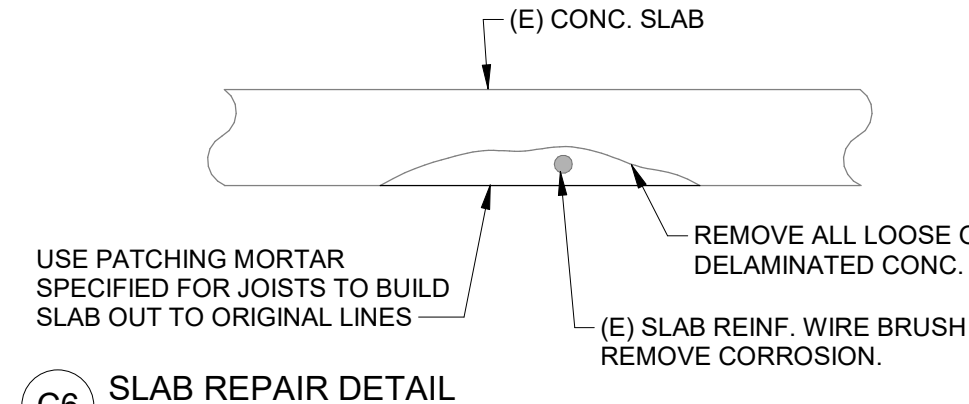
1. PRIOR TO REMOVAL OF THE EXISTING SUPPORTING STRUCTURE, ADEQUATELY SHORE THE EXISTING PORTIONS SO THAT NO MOVEMENT OCCURS. MAINTAIN THE EXISTING LINES AND ELEVATIONS AFTER PERMANENT SUPPORTS ARE IN PLACE.



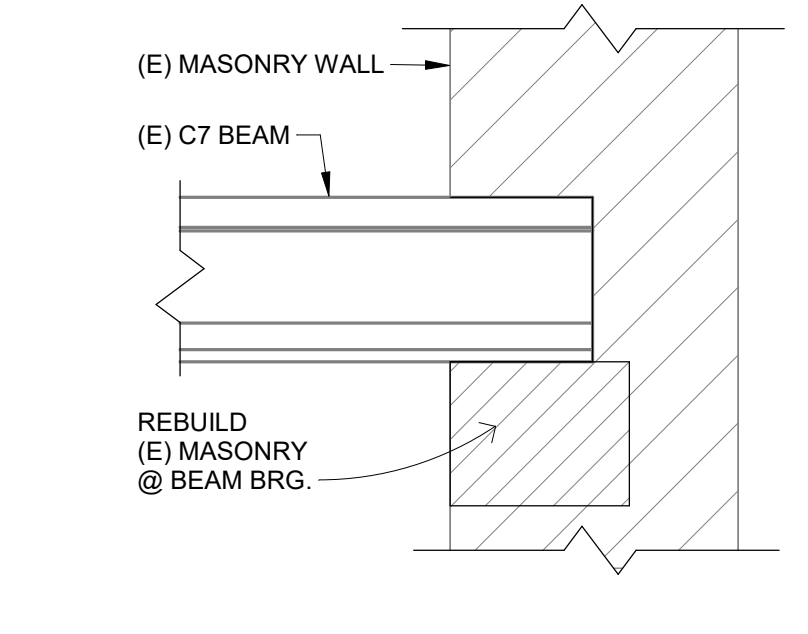
**A6 ROOF SHTG. REPLACEMENT DET.**  
1 1/2" = 1'-0"



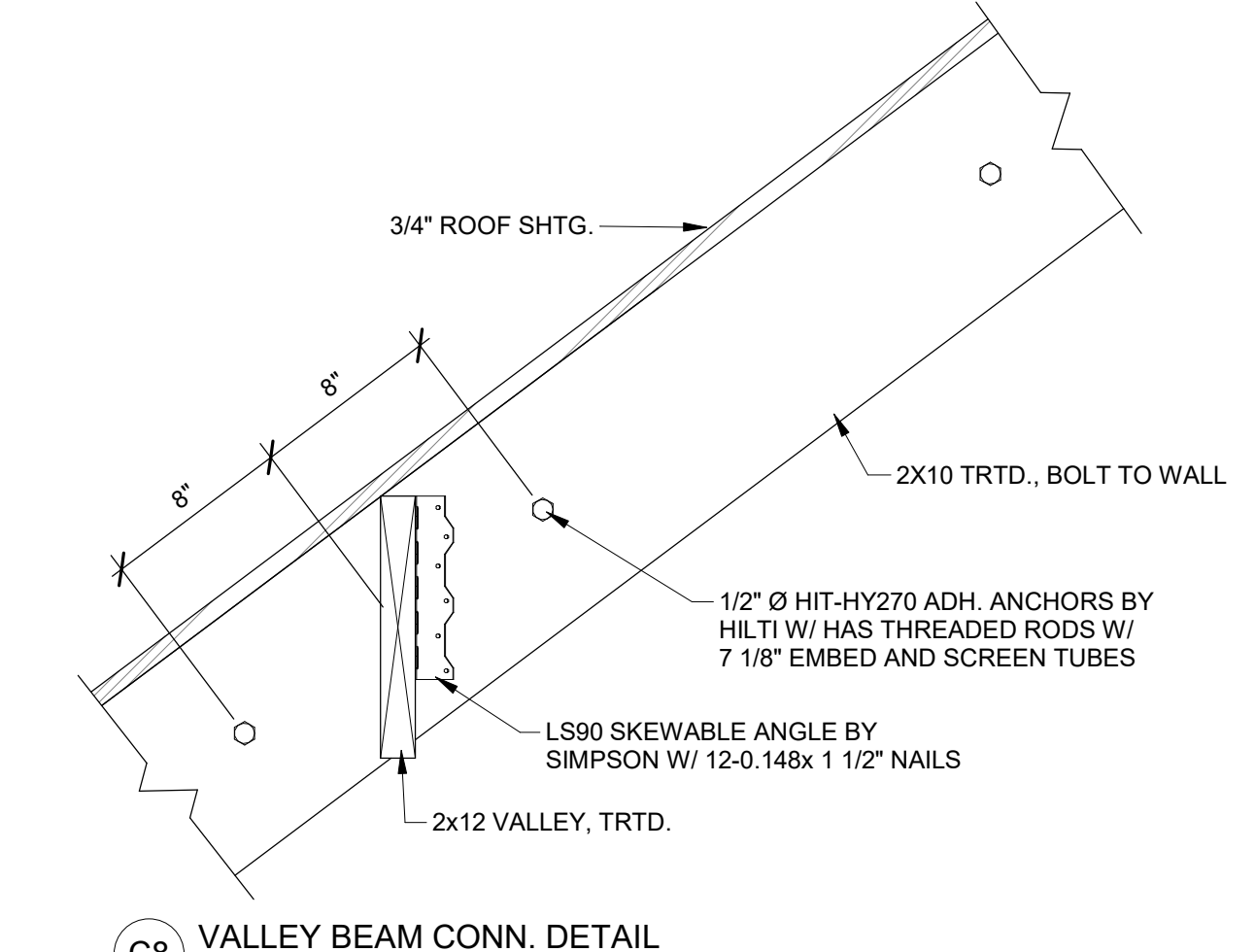
**B6 SISTERED JOIST DET.**  
1 1/2" = 1'-0"



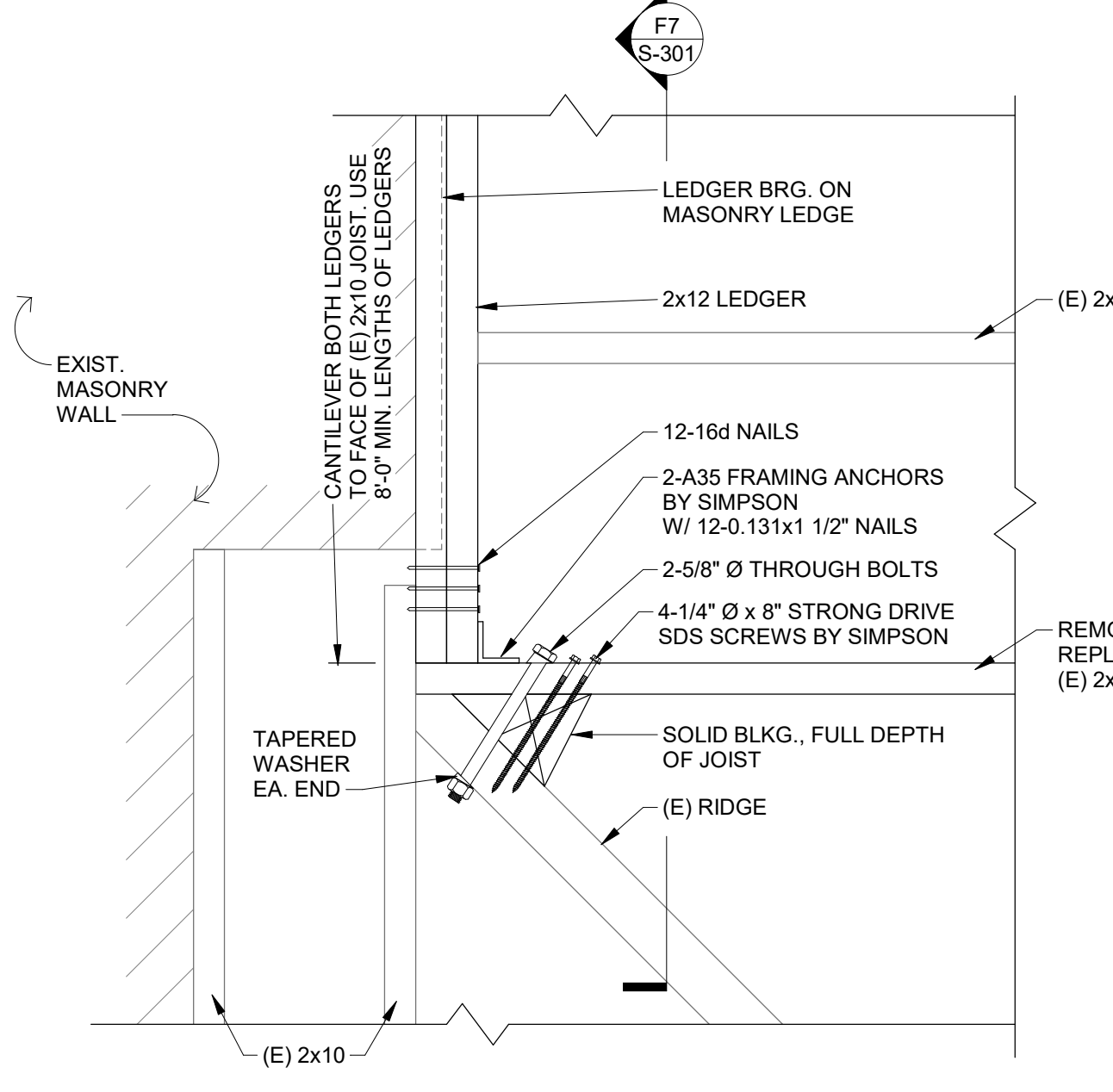
**C6 SLAB REPAIR DETAIL**  
3" = 1'-0"



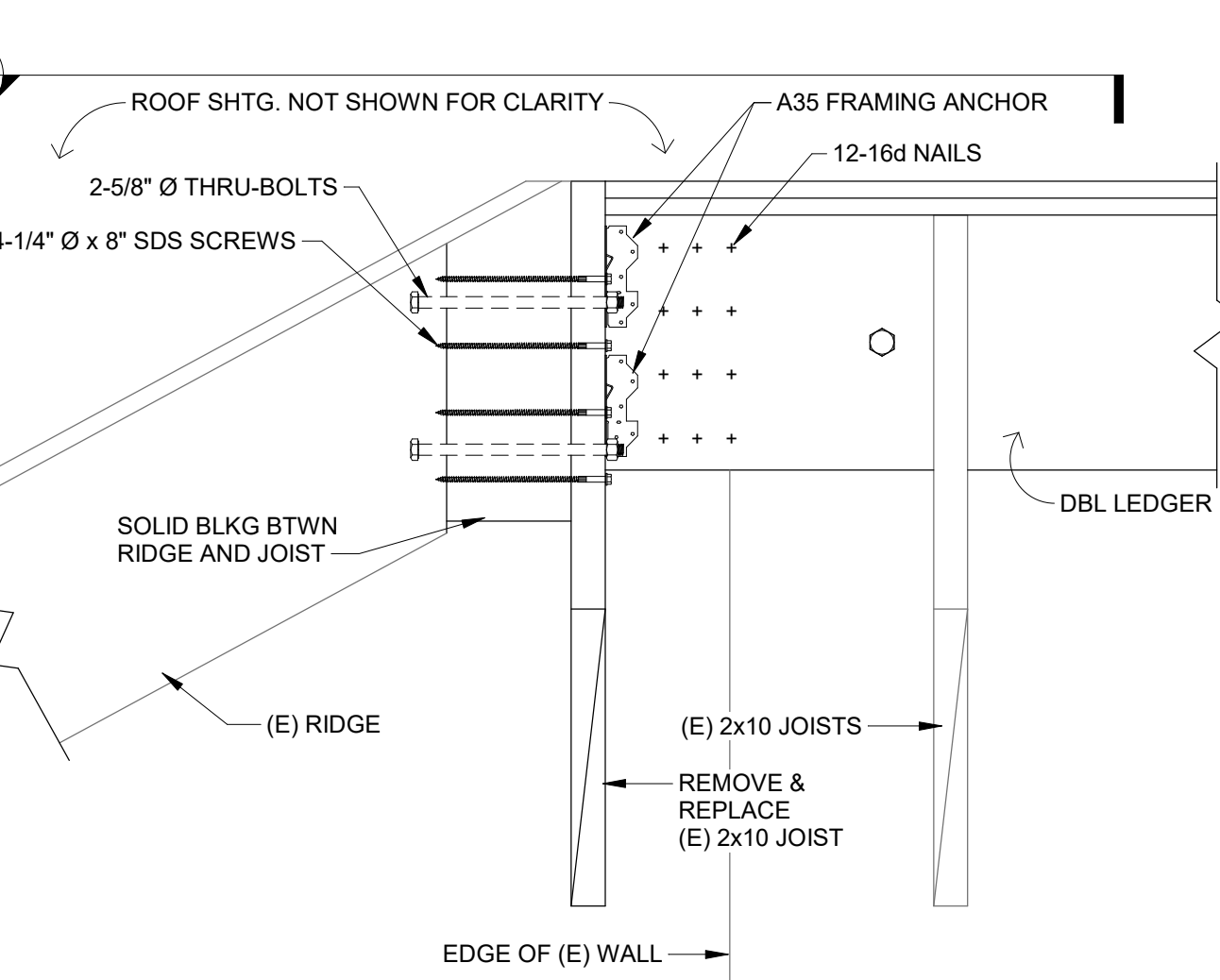
**A8 BEAM BRG. DETAIL**  
1 1/2" = 1'-0"



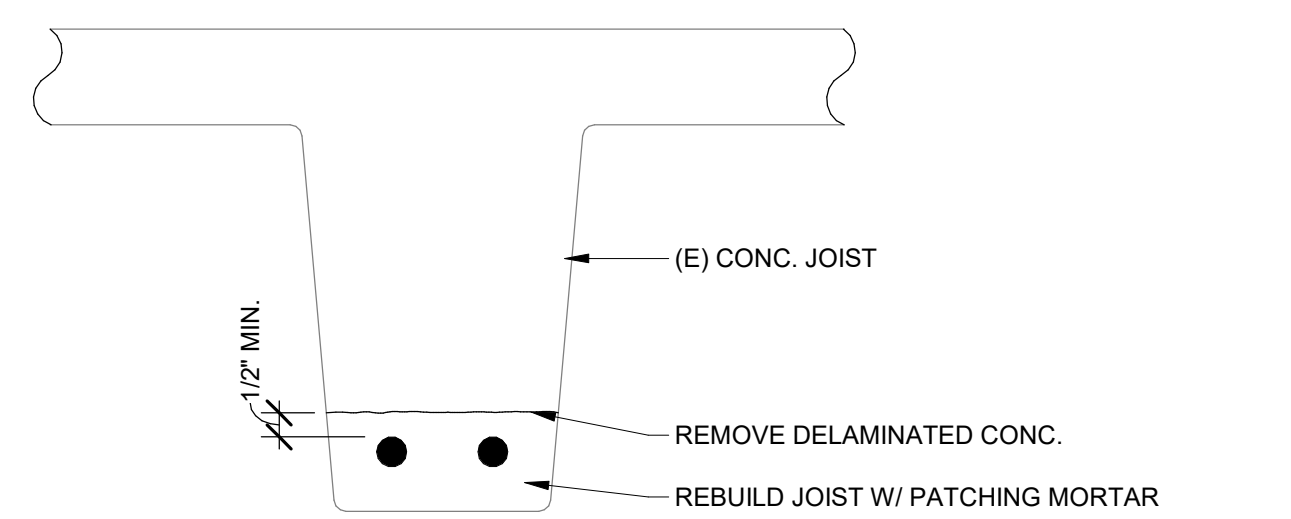
**C8 VALLEY BEAM CONN. DETAIL**  
1 1/2" = 1'-0"



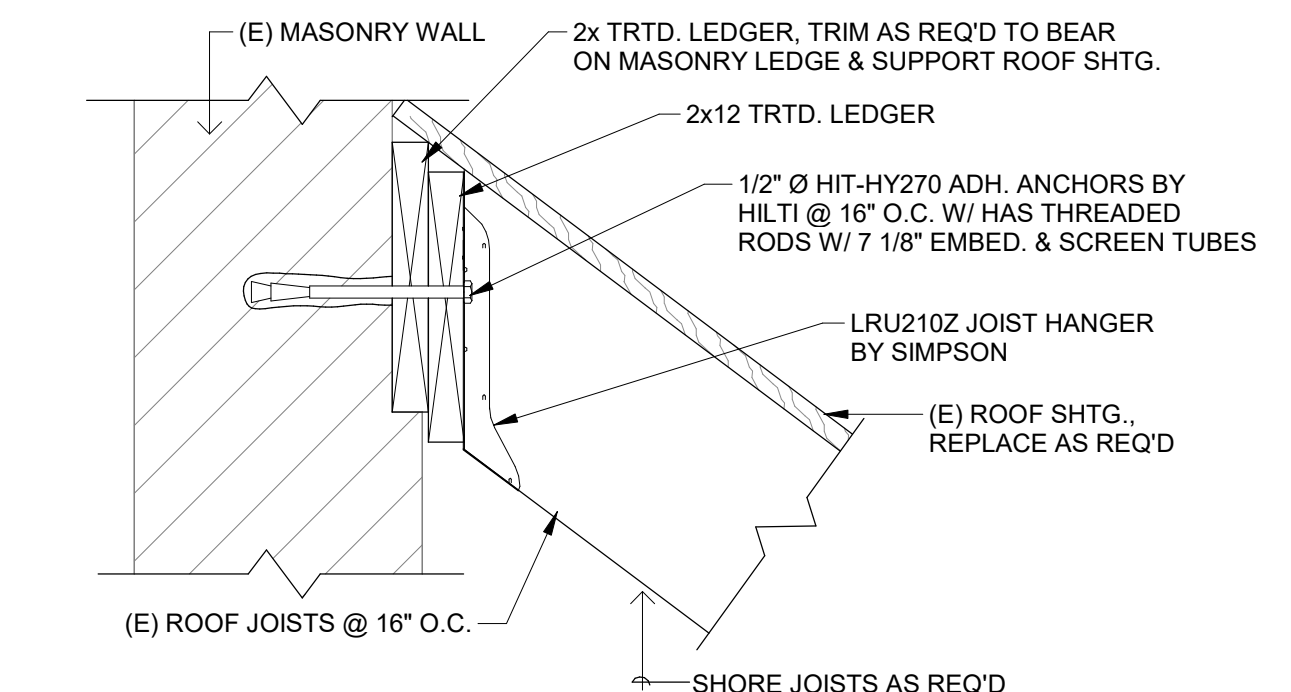
**E7 FRAMING DET. @ RIDGE**  
1 1/2" = 1'-0"



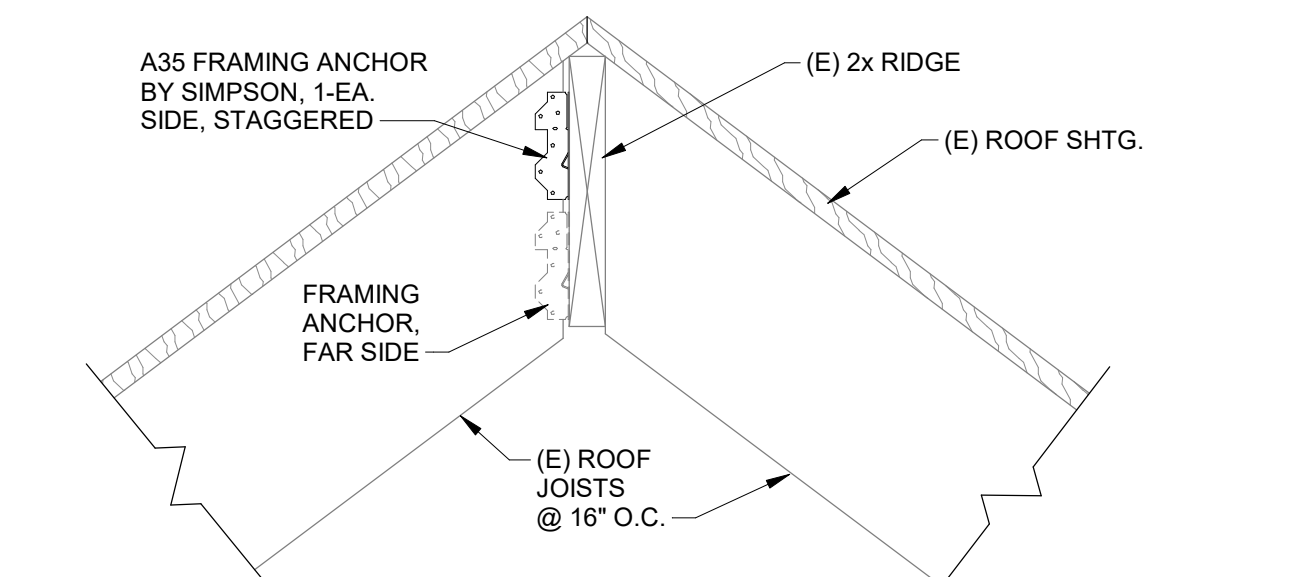
**F7 ELEVATION DETAIL @ RIDGE**  
1 1/2" = 1'-0"



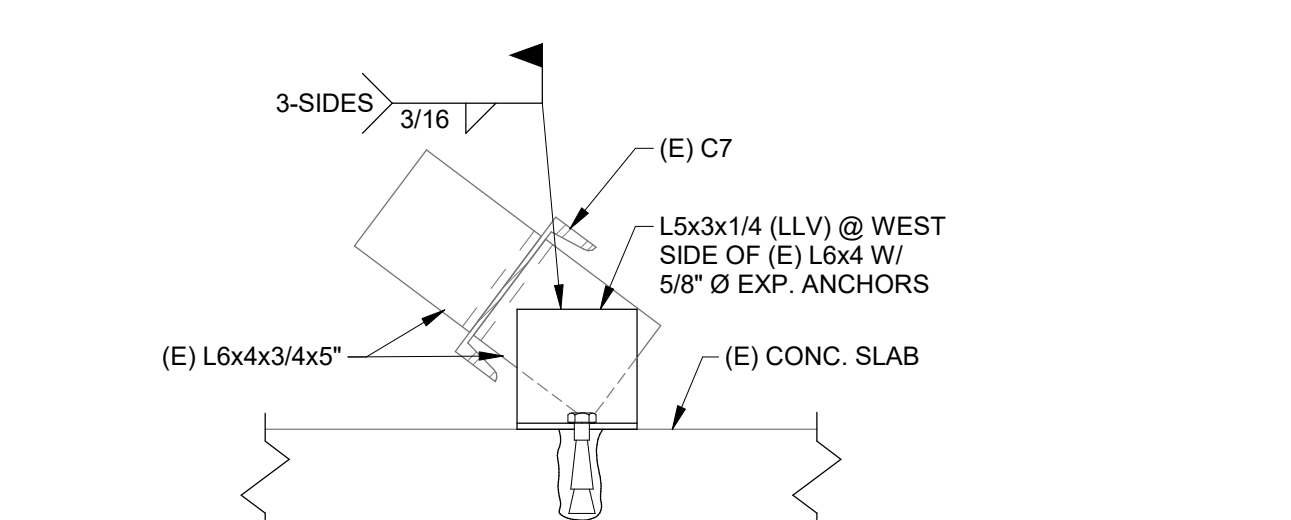
**B9 CONC. JOIST REPAIR DETAIL**  
3" = 1'-0"



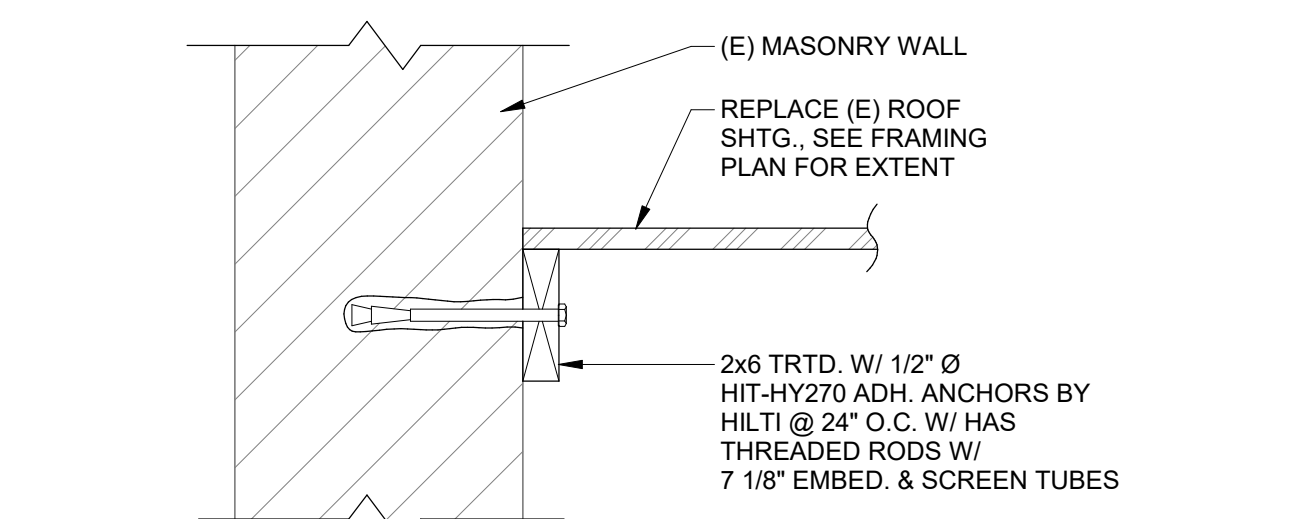
**C9 JOIST CONNECTION DETAIL**  
1 1/2" = 1'-0"



**D9 JOIST CONNECTION DETAIL**  
1 1/2" = 1'-0"



**E9 (E) C7 CONNECTION DETAIL**  
1 1/2" = 1'-0"



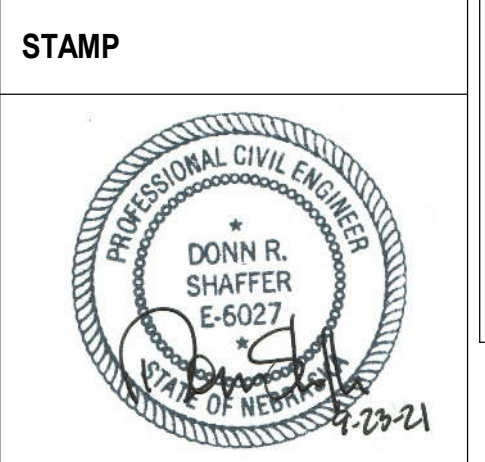
**F9 FRAMING DETAIL**  
1 1/2" = 1'-0"

Revisions:	Date:

**ARCHITECT/ENGINEER OF RECORD**

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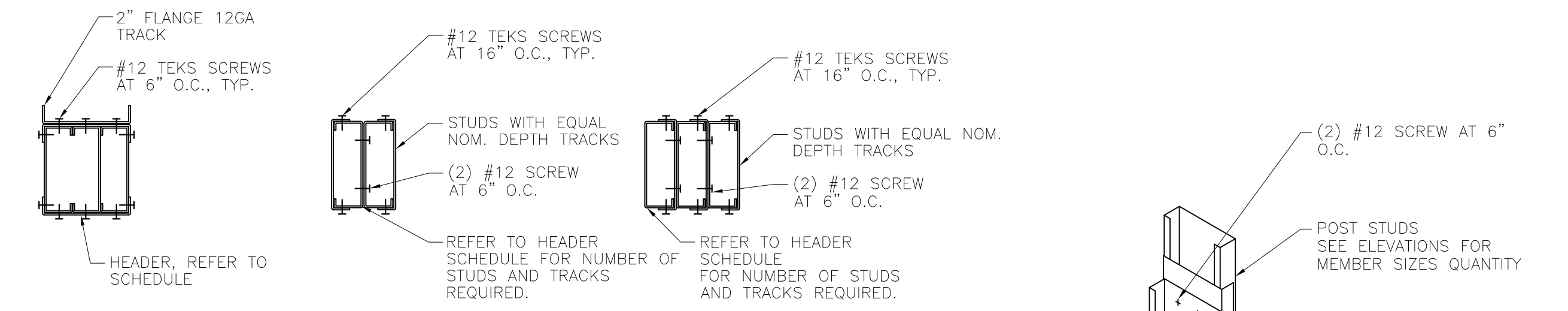
Drawing Title  
**GENERAL STRUCTURAL NOTES & DETAILS**

Approved:

Phase  
**BID DOCUMENTS**

**FULLY SPRINKLERED**

Project Title <b>Renovate and Repair Structural, Building 4</b>	Project Number <b>589A7-21-108</b>
Location <b>Wichita, KS</b>	Building Number <b>4</b>
Issue Date <b>9/23/2021</b>	Checked <b>DRS</b>
Drawn <b>MGJ</b>	Drawing Number <b>S-301</b>

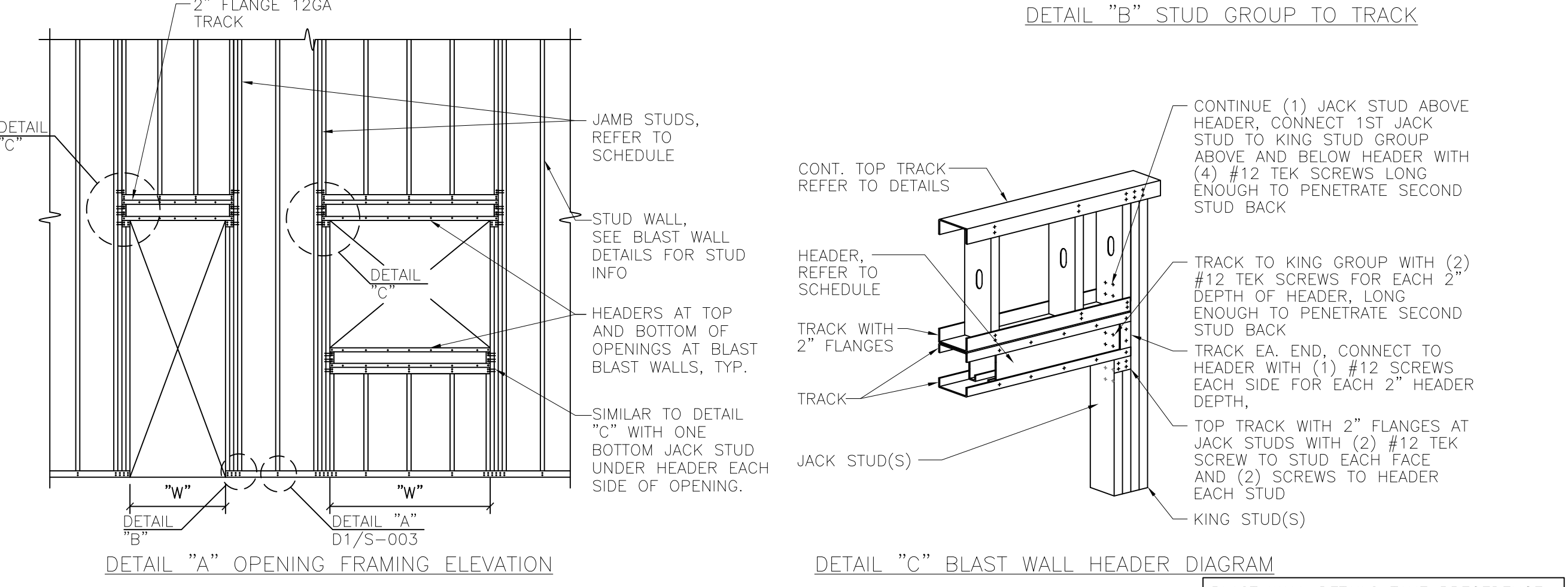


**BLAST WALL HEADER ASSEMBLY**

**BLAST WALL BUILT-UP JAMB ASSEMBLY**

HEADER AND JAMB SCHEDULE				
WALL WIDTH	CLEAR SPAN (W)	HEADER	JACK STUD	KING STUD
6"	UP TO 7'-2"	(3)-600S162-54	(2)-600S162-54	(3)-600S162-54

- NOTES:  
1. USE HEADER SCHEDULE ABOVE, UNLESS NOTED OTHERWISE ON PLANS.  
2. BLAST WALL HEADERS SHALL INCLUDE (3)-600T200-54 TRACK SECTIONS AS SHOWN.  
3. HEADERS SHALL BE BUILT-UP USING "UNPUNCHED" SECTIONS.  
4. BLAST WALL JAMBS SHALL INCLUDE NESTED 600T150-54 TRACK SECTIONS WITH KING STUDS AS SHOWN.



REFER TO BLAST WALL DETAILS FOR FASTENER SPACING FOR METAL WALL PANELS TO LIGHT GAGE FRAMING MEMBERS

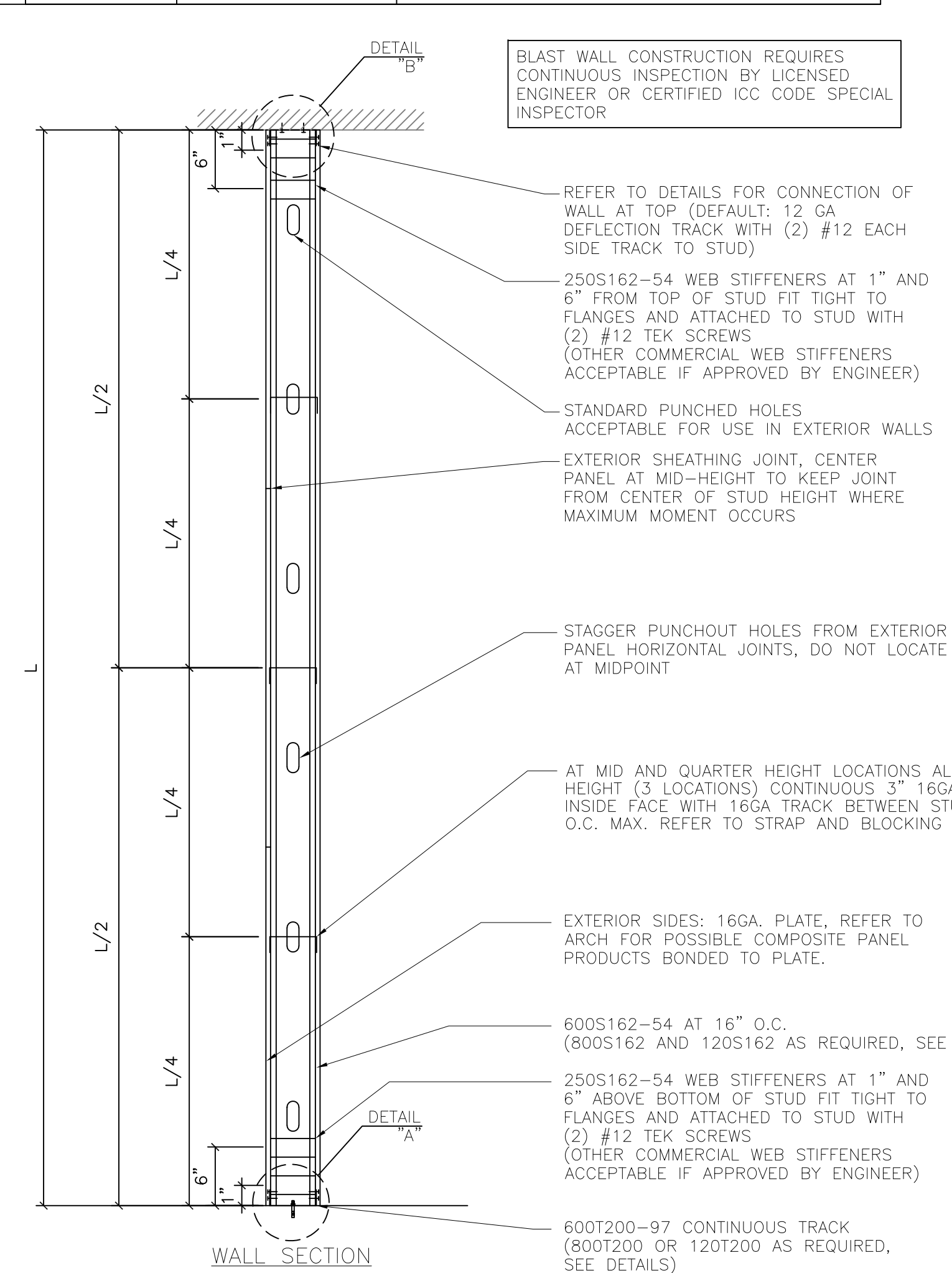
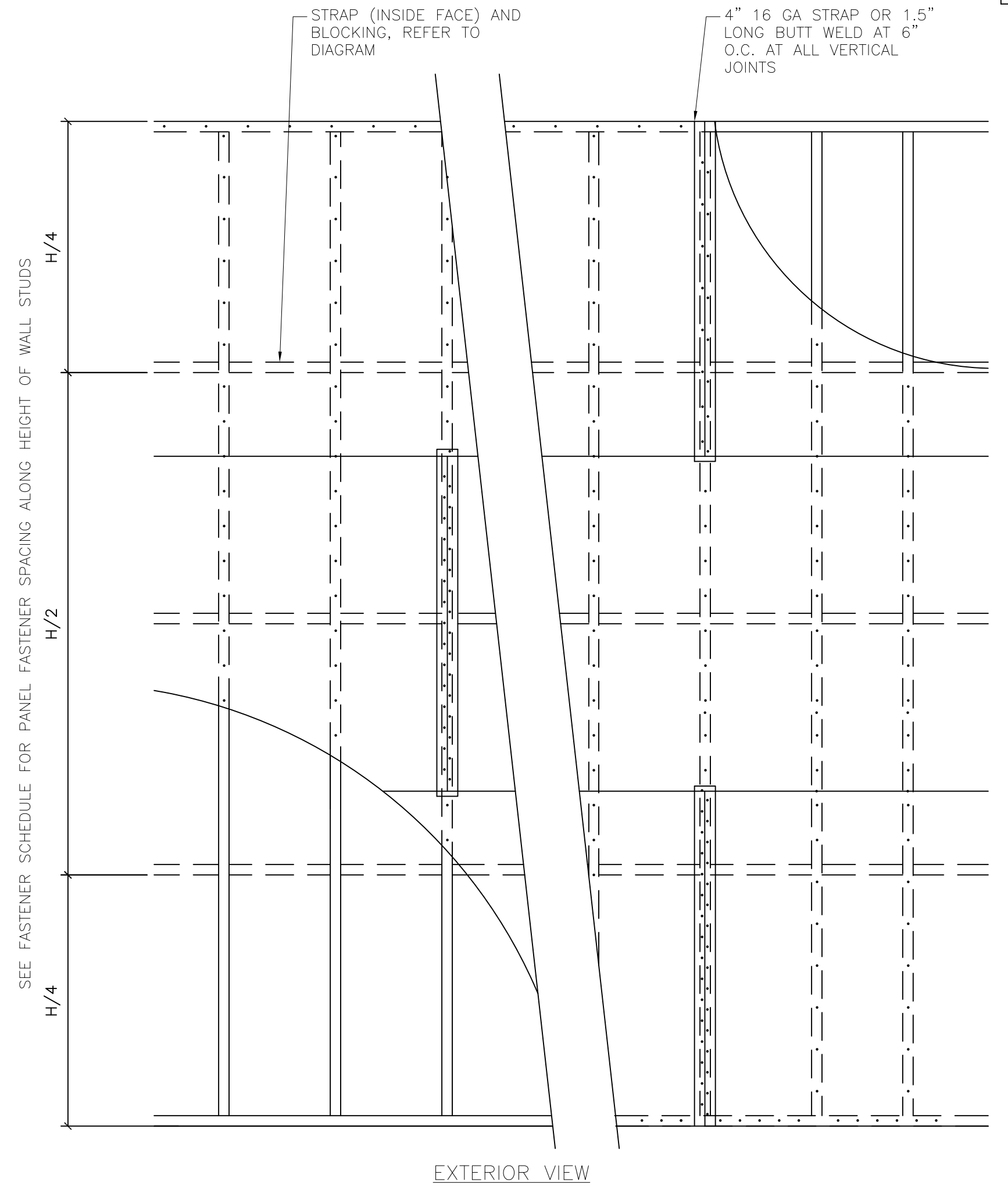
BLAST WALL DETAILS TAKE PRECEDENCE OVER TYPICAL LIGHT GAGE WALL OPENING DETAILS WHEN IN QUESTION

REFER TO BLAST WALL DETAILS FOR ADDITIONAL CONNECTIONS NOT SHOWN

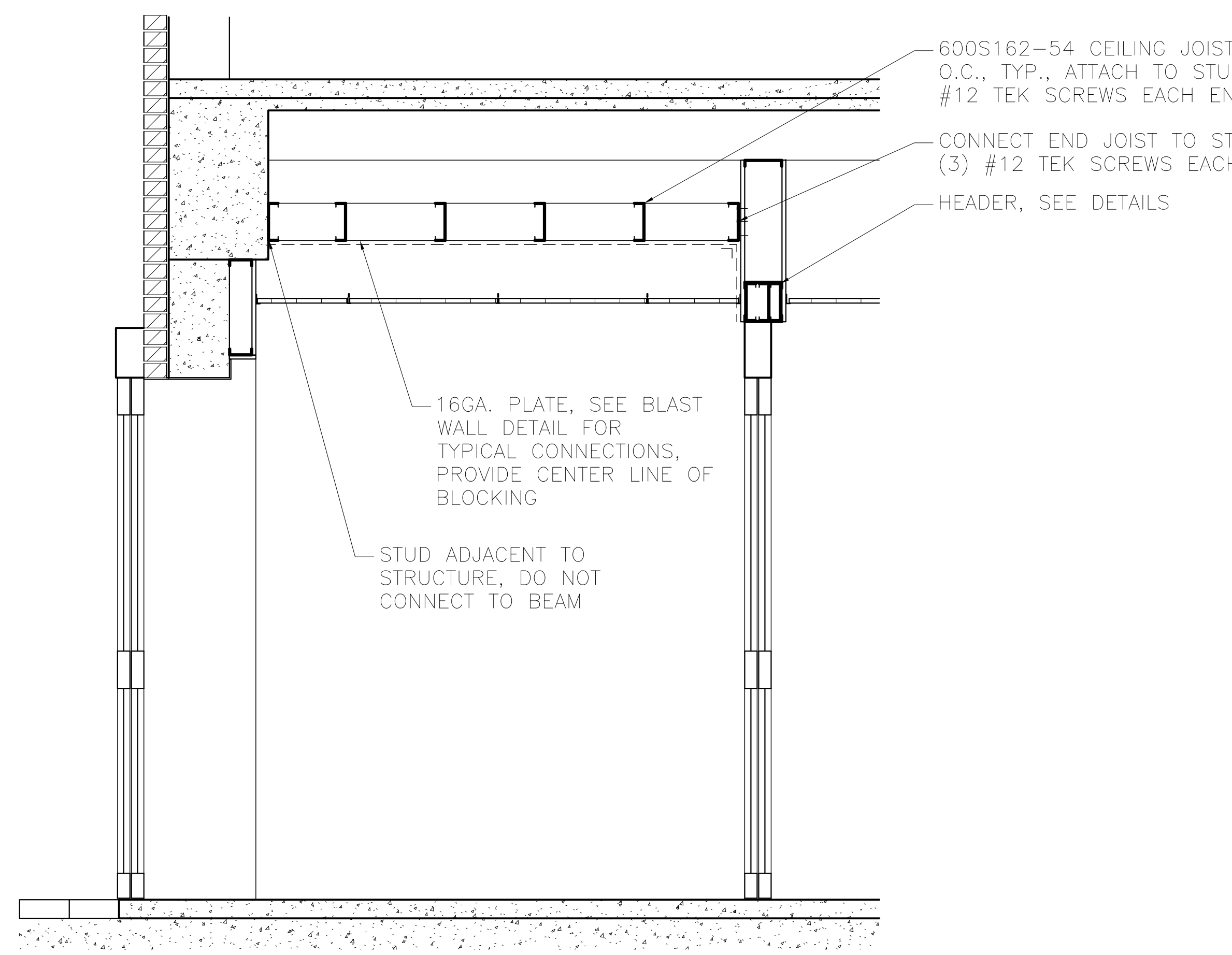
**5 LIGHT GAGE DETAILS FOR OPENINGS IN NON-STRUCTURAL BLAST RESISTANT WALLS**  
3/4" = 1'-0"

**FASTENER SCHEDULE (EXTERIOR PLATE / INTERIOR BOARD TO FRAMING)**

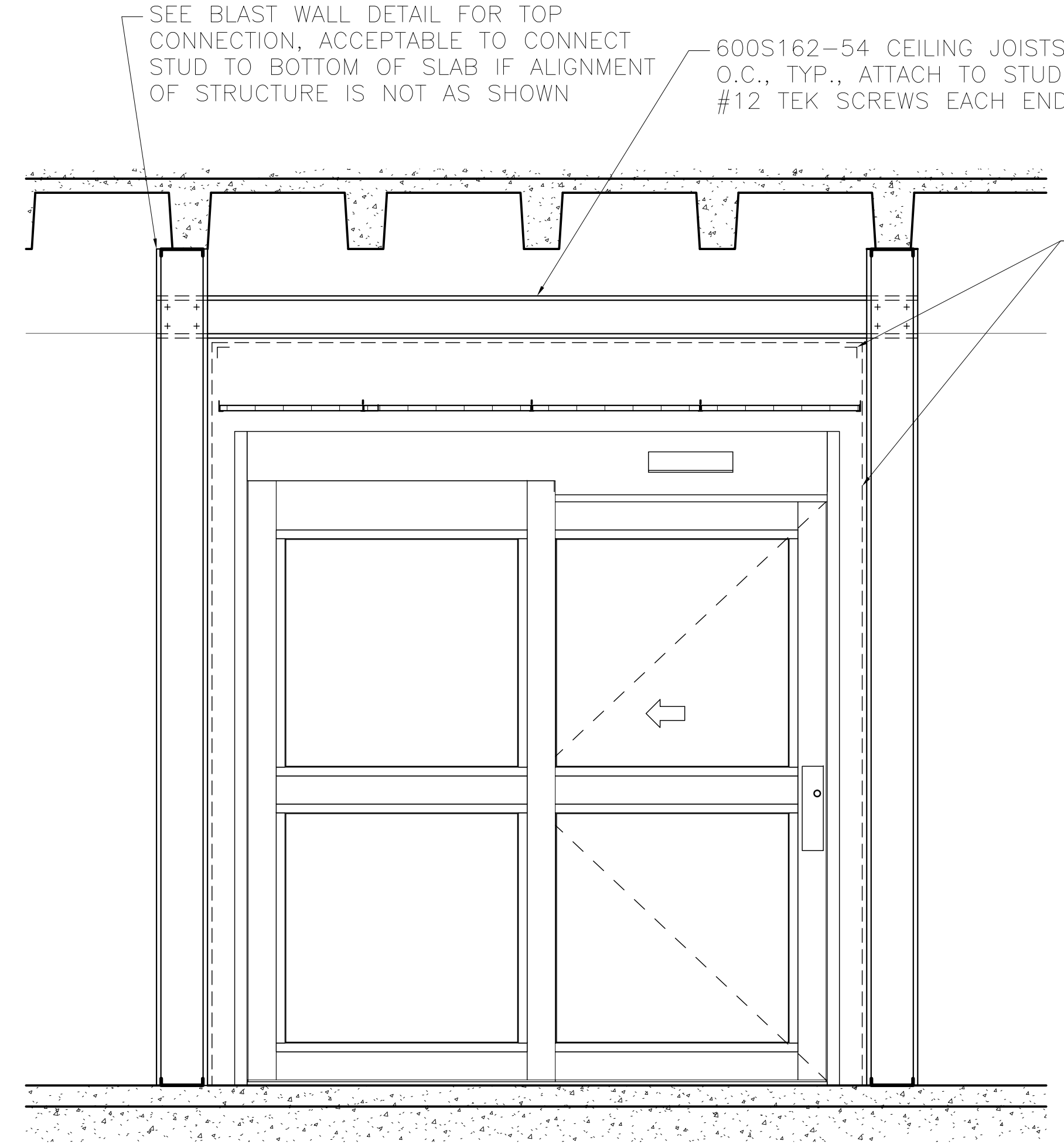
WALL WIDTH	SIDE OF WALL	CONNECTORS	CONNECTOR SPACING
6" 8" 12"	EXTERIOR NOT AT JOINTS	#12 TEK SCREW	6" O.C. TO TRACKS TOP AND BOTTOM 6" O.C. TO STUDS FROM BOTTOM TO 1/4H 5" O.C. TO STUDS AT 1/4H TO 3/4H SPAN 6" O.C. TO STUDS AT 3/4H TO TOP OF WALL
	EXTERIOR AT VERTICAL JOINTS	#12 TEK SCREW	3" O.C. AT ALL VERTICAL JOINTS USING STRAP LAP PLATE SHOWN ON ELEVATION



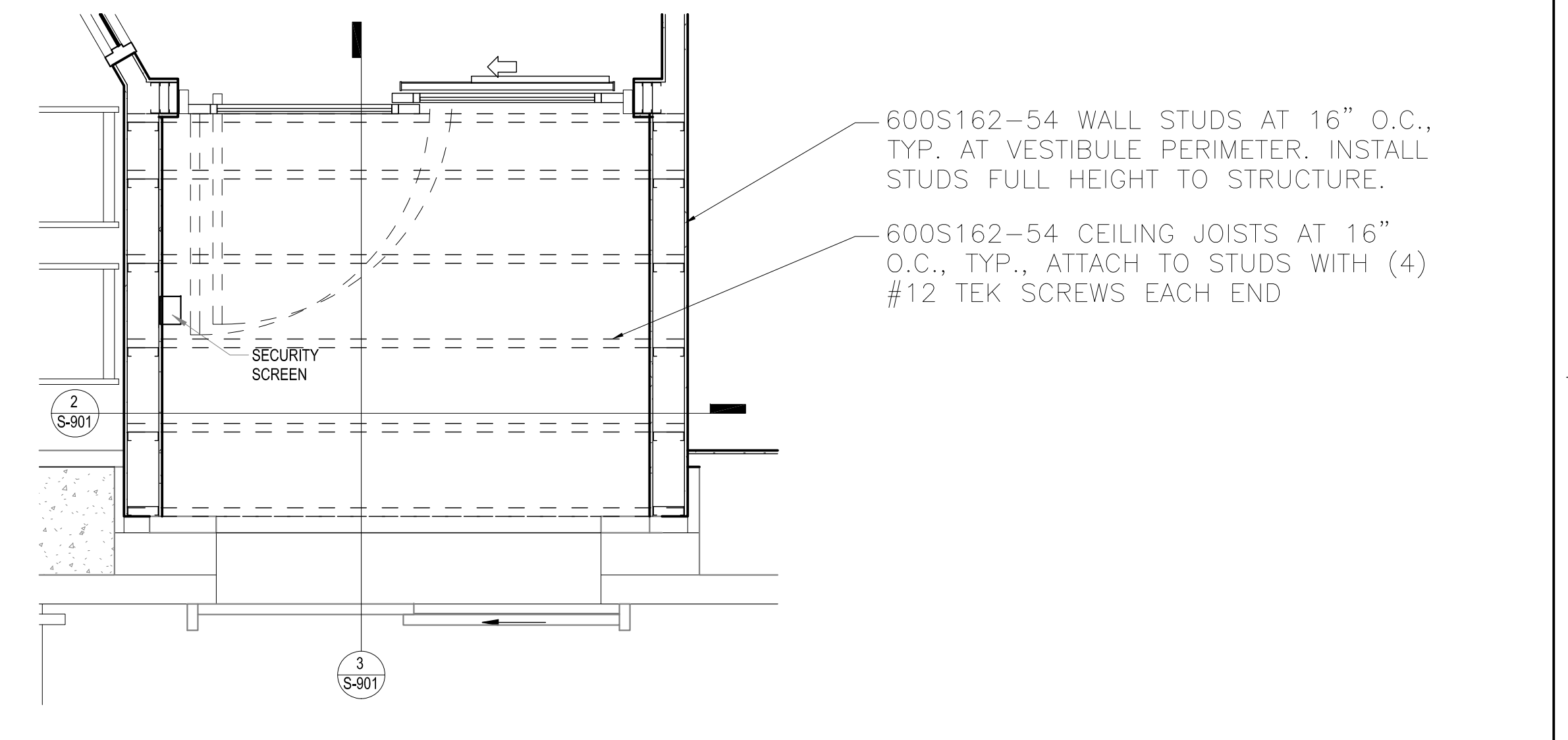
**4 BLAST WALL DETAILS AT PERIMETER LIGHT GAGE WALLS AT FIRST FLOOR**  
3/4" = 1'-0"



**3 Vestibule Section 02**  
3/4" = 1'-0"



**2 Vestibule Section 01**  
3/4" = 1'-0"



**1 BASEMENT - VESTIBULE**  
1/2" = 1'-0"

<p><b>CONSULTANT</b></p> <p><b>Engineers:</b> IMEG Corp. 15 Sunnen Drive, Suite 104 St. Louis, MO 63143 (314) 645-1132</p>		<p><b>ARCHITECT/ENGINEER OF RECORD</b></p> <p><b>A/E:</b> Calvin L. Hinz Architects P.C. 3705 N. 200th Street Elkhorn, NE 68022 (402) 291-6941</p>		<p>STAMP</p>		<p>Office of Construction and Facilities Management</p> <p>U.S. Department of Veterans Affairs</p>		<p>Drawing Title <b>BLAST MITIGATION DETAILS</b></p> <p>Approved:</p>		<p>Phase <b>BID DOCUMENTS</b></p>		<p>Project Title Renovate and Repair Structural, Building 4</p> <p>Project Number 589A7-21-108</p> <p>Building Number 4</p>	
<p>Revisions:</p>		<p>Date:</p>		<p>U.S. Department of Veterans Affairs</p>		<p>FULLY SPRINKLERED</p>		<p>Location Wichita, KS</p> <p>Issue Date 9/23/2021</p> <p>Checked</p> <p>Drawn</p>		<p>Drawing Number S-901</p>			