

HEBRON ELEMENTARY SCHOOL
RE-ROOFING PROJECT
ADDENDUM NO. 1
MARCH 18, 2024

**The Hebron Public Building Committee
On Behalf of
The Town of Hebron
And
Hebron Board of Education**

**HEBRON ELEMENTARY SCHOOL
RE-ROOFING PROJECT
PROJECT 2024-06**

MARCH 18, 2024

ADDENDUM NO. 1

Each Respondent must acknowledge receipt of this Addendum by inserting its number within the cover letter of the Request for Qualifications (RFQ) submission. Failure to do so may result in the Respondent's disqualification.

This Addendum consists of seven (7) Pages.

Appended to and made part of this Addendum are the following documents:

Architectural Drawings-Thirteen (13) Drawings
Structural Drawings-Thirteen (13) Drawings
Structural SK-Drawings-Thirty-Six (36) Pages
Infrared Roof Inspection Report-March 11, 2020-21 Pages
Non-Mandatory Pre-Submission Meeting and Site Tour-Sign-In Sheet is attached-one (1) page.

A. General Clarifications

- a. Non-Mandatory Pre-Submission Meeting and Site Tour-Sign-In Sheet is attached-one (1) page.

B. Clarifications and Additions to the RFQ.

- a. **RFQ-Two Separate Submissions**-Pursuant to Connecticut State Statute CGS 10-287 (b) (2) and (4) and the direction provided by the Office School Construction and Grants and Review (OSCG &R) the Request for

Qualification submissions must be submitted as two separate documents for each school and cannot be combined.

- b. Square Footage of Building and Estimated Square Footage of Roof Replacement-**The approximate gross square footage of the building is 72,000 +/- and the approximate square footage of the roof replacement is 56,000 +/-.
- c. Schedule-**The RFQ indicates that the schedule for both roofs is to have them replaced during the Summer of 2025. However, there are several significant logistical challenges that the Town and Board of Education are in the process of working on. One major factor is that the Parks and Recreation Department utilizes both schools during the summer months. There is a strong possibility that the roof replacement at the Hebron Elementary School will occur during the summer of 2025 and the roof replacement at the Gilead Hill will occur during the summer of 2026. In any case, the Town and Board of Education would still want the Architect(s) to secure approval for both schools from OSCG & R well in advance of the summer of 2025. The RFP (Fee Proposal) will clearly indicate what the schedule will be for the roof replacements at the schools.
- d. OSCG & R Required Documents-**When the RFQ was drafted it attempted to identify all the required steps, documentation, and submissions that OSCG & R will be required by the Architect(s). The Architect(s) will be responsible for providing all work that will be necessary and as required by the OSCG & R.

C. Pre-Submission Meeting and Site Tour-Questions and Answers

- a. Q-1-Reports-***The RFQ references a “roof report,” however there does not appear to be anything included in it.*
A-1. The report was inadvertently omitted from the RFQ. It is appended and made part of this Addendum and is entitled “Nuclear Backscatter Inspection Report that is dated March 11, 2020.
- b. Q-2-Architectural Drawings-***Are there any relevant architectural drawings that can be made available?*
A-2-Yes, appended and made part of this Addendum are thirteen (13) architectural drawings.
- c. Q-3.- Structural Drawings-***Are there any relevant structural drawings that can be made available?*
A-2-Yes, appended and made part of this Addendum are thirteen (13) structural drawings and thirty-six (36) SK Drawings.

D. Submission Meeting and Site Tour-Questions and Answers

- a. **Q-4-Environmental/Hazardous Materials Consultant/Hygienist**-The RFQ indicates that the Architects should include the services of an Environmental/Hazardous Materials /Consultant/Hygienist. Please confirm what the expected scope of services this subconsultant is expected to provide.
A-4-The purpose for that specialist would be to: 1-conduct pre-roofing and post-roofing indoor air quality test samples-this would help the BOE to dispel any assertions that the indoor air quality is not good after the roofing has been completed; 2-identify during the pre-construction any suspected mold and/or mildew that is detected above and below the suspending acoustical ceilings and provide a plan on to address it; 3- identify during the pre-construction any suspected hazardous materials above the ceilings that will need to be abated.
- b. **Q-5-The afore-listed scope of services would be rather difficult to quantify and therefore assemble a cost to be included in the RFP Fee submission.**
A-5-Agreed. When the RFP is issued, it will indicate a dollar amount allowance to include for the work of the Environmental/Hazardous Materials Consultant/Hygienist.
- c. **Q-6- Test Cuts in Roofing System**-The RFQ indicates that the Architect should include the cost of performing a number of test cuts through the existing roofs. That would be rather difficult to quantify and therefore assemble a cost to be included in the RFP Fee submission.
A-6- Agreed. When the RFP is issued, it will indicate a dollar amount allowance to include for the work related to performing the necessary test cuts in the roofing.
- d. **Q-7-Infrared (IR) Thermal Imaging and Thermo Scans**-The RFQ indicates that the Architects should include "infrared (IR) thermal imaging, thermos-scans, etc. to determine any unforeseen conditions that need to be addressed." That would be rather difficult to quantify and therefore assemble a cost to be included in the RFP Fee submission.
A-7- Agreed. When the RFP is issued, it will indicate a dollar amount allowance to include for the work related to performing the necessary work related to the Infrared (IR) Thermal Imaging and Thermo Scans.
- e. **Q-8-Recoating the Sarnafil Roofs**- In the RFQ it is requested that the Architects provide an analysis of "**1-Recoat existing Sarnafil Roofs and 2- Remove existing membrane and top course of insulation and replace with new insulation and new membrane.**" Is this analysis going to be required.

A-8-Delete these paragraphs in reference to providing an analysis of recoating the existing Sarnafil Roofs from the RFQ in their entirety.

- f. **Q-9-Structural As-Built Drawings and Shop Drawings-***The RFQ's require a Structural Engineer to review structural implications of the roof design. Does the Town have existing as-built structural drawings?*
- g. **A-9-There are no structural as-built drawings and no structural shop drawings available for either school. As a result, the review of the structural implications of the new roofing system will need to be conducted based on the structural drawings that have been made part of this RFQ and appended and made part of this Addendum. Some of those documents which are either PDF's or some other similar type files have been generated from AutoCAD files that are over 20 years old. They are provided for your reference only and should not be considered 'as-built' documents. They may contain inaccuracies and must be verified against the existing conditions.**
- h. **Q-10-Registered Roof Consultant (RRC)-** *The RFQ indicates that the Architect must carry the services of a "Registered Roof Consultant." Please reconsider this requirement.*
A-10-After considerable deliberations and discussions, it has been decided that the inclusion of these services will not be necessary.
- i. **Q-11-Roof Maintenance and Repairs Vendor-***Do the Schools have a vendor that provides maintenance and repairs on the roofs? If so, who is the firm, and may we contact them if we have questions?*
A-11-Yes, the Schools has retained Eagle Revit to perform maintenance and repairs and all proposers can feel free to contact them if they have any questions.
- j. **Q-12-Environmental Hygienist-***Do the Schools have an Environmental Hygienist that has performed work them for them? If so, who is the firm and may we contact them if we have any questions?*
A-12-The firms is Mystic Air, and all proposers can feel free to contact them if they have any questions.
- k. **Q-13-List of Subconsultants-***In our RFQ submission should we list all of the subconsultants that we intend on making part of our design team?*
A-13-Yes. As per the RFQ, it is imperative that you include all of the names of the firms that you intend on having as part of your design team.

The following list of documents which are appended to this RFQ as either PDF's or some other similar files and some have been generated from AutoCAD files that are over 20 years old. They are provided for your reference only and should not be considered 'as-built' documents. They may contain inaccuracies and must be verified against the existing conditions.

ARCHITECTURAL DRAWINGS

The following drawings issued by CJ Lawler Associates were originally dated 12/1/98 with a revision date of 4/30/1998.

<u>DRAWING NO.</u>	<u>DESCRIPTION</u>
A1.2	Partial Floor Plan Area B
A1.3	Partial Floor Plan Area C
A3.2	Roof Details
A4.1	Exterior Details
A4.3	Building Sections
A7.1	Section Details
A7.2	Section Details
A7.3	Section Details
A7.4	Section Details
A7.5	Section Details
A7.6	Section Details
A7.7	Section Details
A7.8	Section Details

STRUCTURAL DRAWINGS

The following drawings issued by CJ Lawler Associates were originally dated 12/1/98 with a revision date of 4/30/1998.

<u>DRAWING NO.</u>	<u>DESCRIPTION</u>
S1.1	Foundation Plan Area A
S1.2	Foundation Plan Area B
S1.3	Foundation Plan Area C
S2.1	Area A Roof Framing Plan Mezzanine Framing Plan

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S2.2	Low Roof & Mech. Mezz., Framing Plan Area B
S2.3	Roof Framing Plan Area C
S3.1	Foundations Sections
S4.1	Framing Sections
S5.1	Column Schedule
S5.2	Plan Details
S5.3	Plan Details
S6.1	Typical Details and Design Data
S6.2	Typical Details

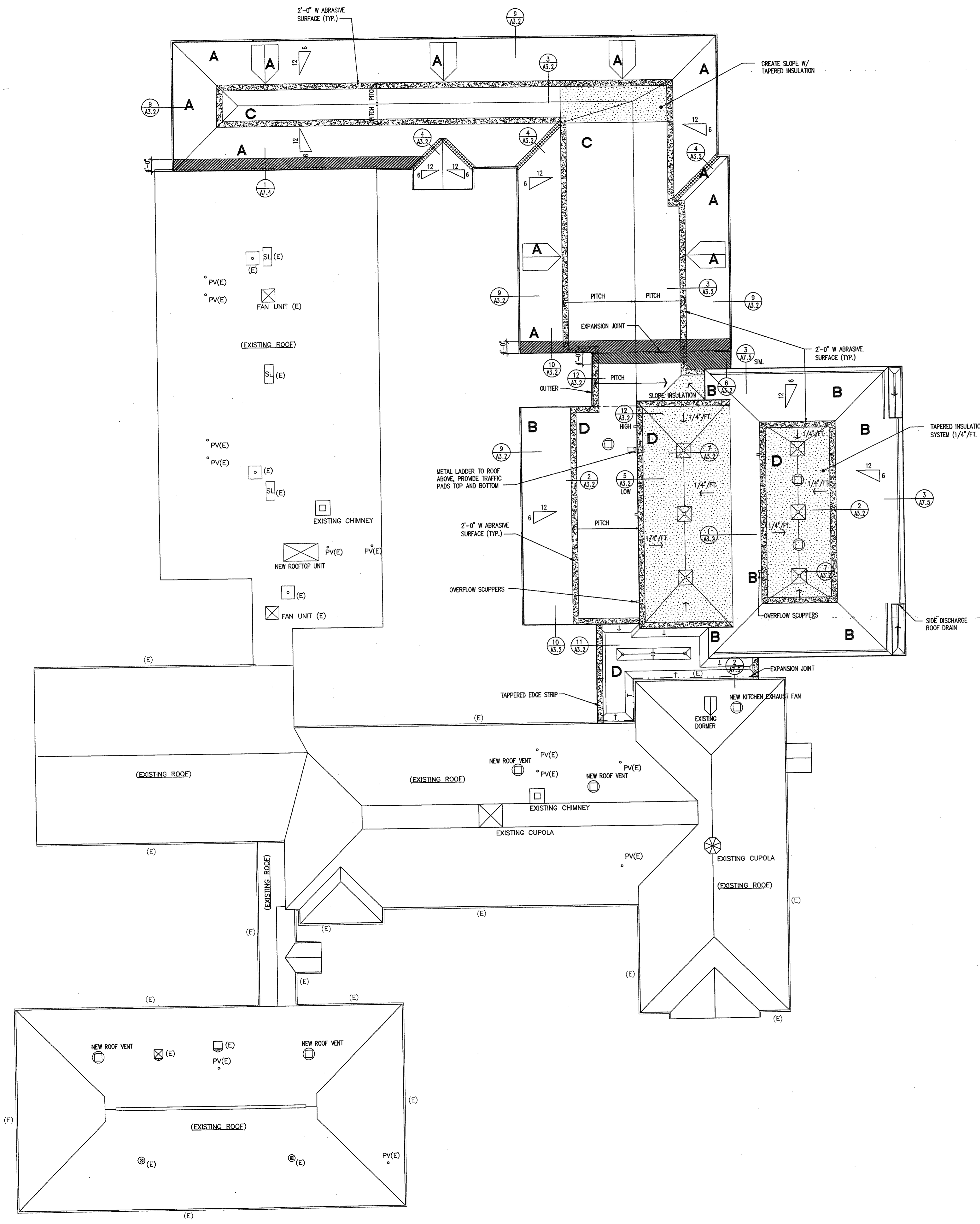
SK-DRAWINGS

<u>DRAWING NO.</u>	<u>DESCRIPTION</u>	<u>DATE</u>
HSK-S01	Section at Hung Lintel Typical	8-12-99
HSK-S02	Section Exterior Wall Corridor 01B	8-12-99
HSK-S03	Section Existing Wall Corridor 01B	8-12-99
HSK-S04	Section Column Line 15.9	8-12-99
HSK-S05	Section at Mezzanine Slab	8-12-99
HSK-S06	Section at Mezzanine Slab	8-12-99
HSK-S07	Section at Column Line 15.9 Low Roof Column Line V-W	8-12-99
HSK-S08	Moment Connections Key Plan Area "B"	8-12-99
HSK-S09	Roof Framing Plan Area "A" Revision Top Steel	8-12-99
HSK-S10	Work Point Bottom of Deck Gymnasium Roof	8-26-99
HSK-S11	Section Column Line 14 Revised Section 2/S4.1	8-26-99
HSK-S12	Section at Perimeter of Gymnasium High Roof	8-26-99
HSK-S13	Loose Lintel Schedule	8-26-99
HSK-S14	Work Point Low Eave Area "B"	8-26-99
HSK-S15	Corridor 88 Entry Clarification Curved Lintel	9-27-99
HSK-S16	Corrective Work for Anchor Bolt Layout	11-4-99
HSK-S17	Steel Frame for HRU-2	11-5-99
HSK-S18	Brick Pier Foundation Section	11-29-99
HSK-S19	Field Revision Section 10/S3.1	12-28-99

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HSK-S20	Deck Reinforcement at Duct Penetrations In Gym	1-6-00
HSK-S21	Precast Concrete Lintel Typical Section Gymnasium	1-14-00
HSK-S22	Precast Concrete Lintel Typical Plan at Column	1-14-00
HSK-S23	Top of Interior Masonry Wall Connection at Wood Trusses	1-21-00
HSK-S24	Revised Gymnasium Stage Framing Plan	2-16-00
HSK-S25	Section Thru Stage Framing	2-16-00
HSK-S26	Eave Channel Between Column Line "K" and "L"	2-17-00
HSK-S27	Pump House Structural Plans and Sections	3-6-00
HSK-S28	Elevation of Hung Lintel Line "L" and "V"	3-20-00
HSK-S29	NOT ISSUED	
HSK-S30	Reloacted W12X14 Steel Tie Beam to Line H.6	3-31-00
HSK-S31	Reloacted W12X14 Steel Tie Beam to Line H.6	3-31-00
HSK-S32	Masonry Support Between Column V-12 and V-14	4-10-00
HSK-S33	Partial Existing Framing Plan Mechanical Unit HRU-1	4-10-00
HSK-S34	Hung Lintel Line "K" – Area "B"	4-10-00
HSK-S35	Precast Concrete Support Gym Canopies Area "B"	5-1-00
HSK-S36	Mechanical Duct Support Gymnasium Area "B"	5-2-00
HSK-S37	Backstop Support Gym Area "B"-4 Locations	6-12-00

END OF ADDENDUM NO. 1



- KEY**
- B** ROOF TYPE DESIGNATION
 - ← ROOF SLOPE DIRECTION
 - [Pattern] TAPERED ROOF INSULATION
 - [Pattern] PERIMETER WARNING TRACK
 - ROOF DRAIN
 - PV PLUMBING VENT
 - RV RADON VENT
 - [Symbol] ROOF TOP MECHANICAL UNIT - FLASH NEW PRE-FAB CURB INTO ADJACENT ROOFING
 - [Symbol] ROOF TOP MECHANICAL UNIT - FLASH NEW PRE-FAB CURB INTO ADJACENT ROOFING
 - GUTTER W/ DOWNSPOUT LOCATION
 - SL SKYLIGHT
 - [Pattern] NON-COMBUSTIBLE ROOF DECK: LAMINATE 24 GA. SHEET METAL TO TOP OF PLYWOOD, AND 5/8" F.C. GYP. BD. TO BOTTOM OF PLYWOOD AT ROOF DECK.
- NOTE: (E) ADJACENT TO ABOVE SYMBOLS ON ROOF PLAN, DENOTES EXISTING

- ROOF TYPES**
- A** ON PLYWOOD ROOF DECK: EAVE PROTECTION UNDERLAYMENT, ROOFING FELT PAPER, ROOF SHINGLES
 - B** ON AVAILABLE INSULATION BOARD: EAVE PROTECTION UNDERLAYMENT, ROOFING FELT PAPER, ROOF SHINGLES
 - C** ON PLYWOOD ROOF DECK: SINGLE PLY MEMBRANE ROOF SYSTEM
 - D** ON METAL ROOF DECK: POLYISOCYANURATE INSULATION, SINGLE PLY MEMBRANE ROOF SYSTEM
 - E** -

C.J. Lawler Associates
Architects
7 South Main Street, West Hartford, Connecticut 06107
(860) 233-6226 FAX: (860) 231-9265

GIRARD & CO. ENGINEERS
Structural Engineers
40 Wethersfield Avenue, Hartford, Connecticut 06114
(860) 524-6196 FAX: (860) 528-1463

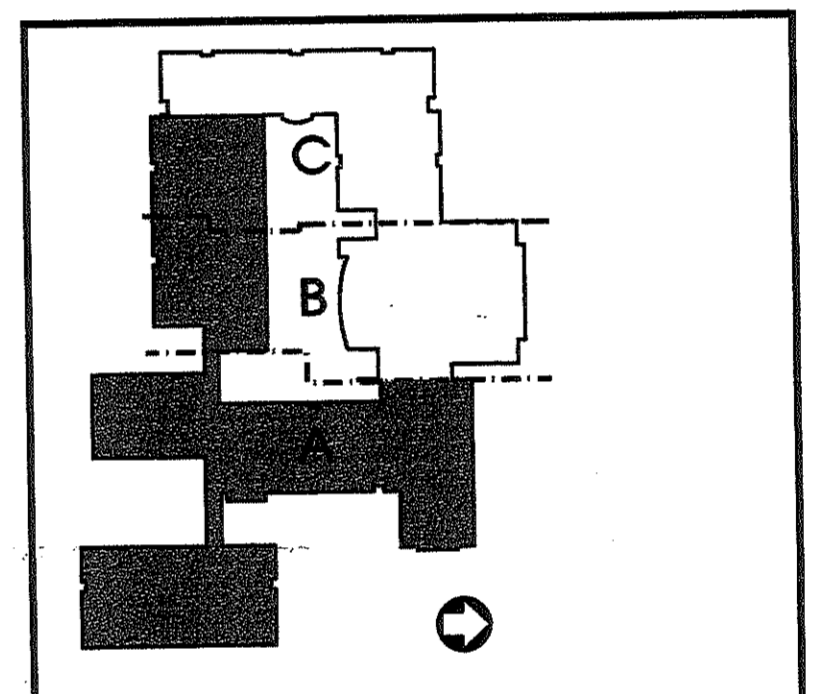
M.R. ROMING ASSOCIATES
Landscape Architects-Land Planners
224 Whitting Lane, West Hartford, Connecticut 06119
(860) 233-1265 FAX: (860) 623-0191

van ZELM HEYWOOD & SHADFORD INC
Mechanical and Electrical Engineers
29 South Main Street, West Hartford, Connecticut 06107
(860) 621-4329 FAX: (860) 621-6220

FOOD SERVICE DESIGN
Food Service
P. O. Box 18191, East Hartford, CT 06118
(860) 623-7101 FAX: (860) 623-8899

ENVIRO SAFE
Safety and Environmental Health Consultant Services
7 Rogers Lake Trail, Old Lyme, Connecticut 06371
(860) 434-8383 FAX: (860) 434-0336

CLARK ENGINEERING
Engineering Services
P. O. Box 419, Granby, CT 06033
(860) 653-4382 FAX: (860) 653-4256



KEYPLAN - NOT TO SCALE
SHADED PORTION DESIGNATES EXISTING

No.	Description	Date
01	BID ISSUE	4-30-99
Revisions		

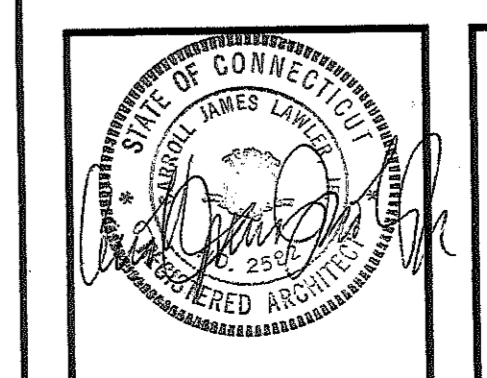
ROOF PLAN

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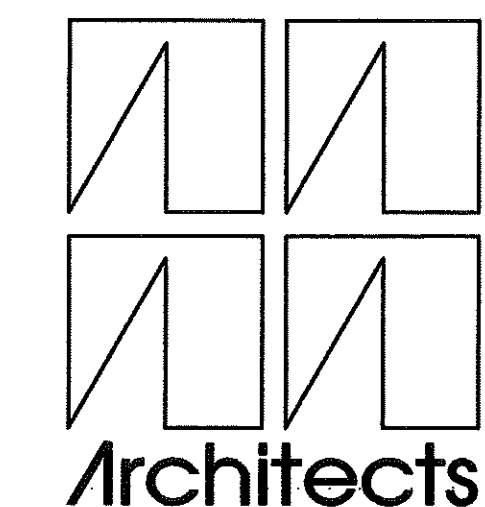
Hebron Elementary School
Hebron, Connecticut

Additions and Renovations

State Project Number
#067-029-EA



A3.1



C.J. Lawler Associates
 7 South Main Street, West Hartford, Connecticut 06114
 (860) 234-8526 FAX: (860) 231-0033

GIRARD & CO. ENGINEERS
 Structural Engineers
 40 Wetherfield Avenue, Hartford, Connecticut 06114
 (860) 234-1216 FAX: (860) 548-1463

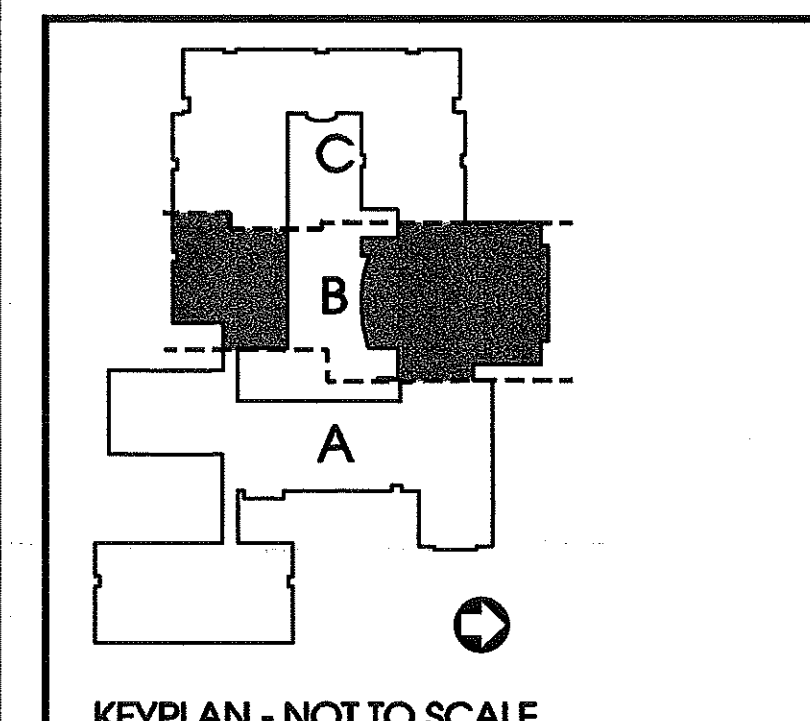
M.R. ROMING ASSOCIATES
 Landscape Architects-Land Planners
 224 Whiting Lane, West Hartford, Connecticut 06119
 (860) 234-1245 FAX: (860) 523-0191

van ZELM HEYWOOD & SHADFORD INC
 Mechanical and Electrical Engineers
 29 South Main Street, West Hartford, Connecticut 06107
 (860) 821-4329 FAX: (860) 821-6620

FOOD SERVICE DESIGN
 Service
 P.O. Box 18191, East Hartford, CT 06118
 (860) 628-7101 FAX: (860) 628-8309

ENVIRO SAFE
 Safety and Environmental Health Consultant Services
 7 Rogers Lake Trail, Old Lyme, Connecticut 06371
 (860) 434-8383 FAX: (860) 434-0036

CLARK ENGINEERING
 Engineering Services
 P.O. Box 419, Granby, CT 06035
 (860) 653-4382 FAX: (860) 653-8256



KEYPLAN - NOT TO SCALE

NOTE:
 (1) EXISTING HAND-CAPPED ACCESSIBLE TOILET - EXISTING WATER CLOSET MOUNTED AT 15' A.F.F. (SEAT) TO REMAIN, EXISTING WALL-HUNG LAVATORY MOUNTED AT 33' A.F.F. (800, 20" CLEAR KNEE SPACE) TO REMAIN. SIDE AND REAR GRAB BARS MOUNTED AT 34" A.F.F. TO REMAIN. PROVIDE NEW SWING-UP GRAB BAR WHERE SHOWN. PROVIDE SINGLE LEVER FAUCET. SEE PFF-1.

GENERAL NOTES:
 A) WHERE EXISTING LOCKERS, CHALKBOARDS, BULLETIN BOARDS, ETC. AREA REMOVED, PREPARE EXISTING CONSTRUCTION TO MATCH ADJACENT FINISH WALL. WHERE NECESSARY RAISE OUT JOINTS & RE-TOOL TO MATCH ADJACENT FINISH WALL.
 B) TYPICAL TOOTH-IN NEW MASONRY AT ALL NEW DOOR JAMBS UNLESS OTHERWISE NOTED. SEE 3/A1.1
 C) SEE SHEET A2.5 FOR ADDITIONAL WORK ABOVE FINISHED CEILING IN EXISTING BUILDING AREA.

Revisions	BID ISSUE	4-30-99
No.	Description	Date
01		

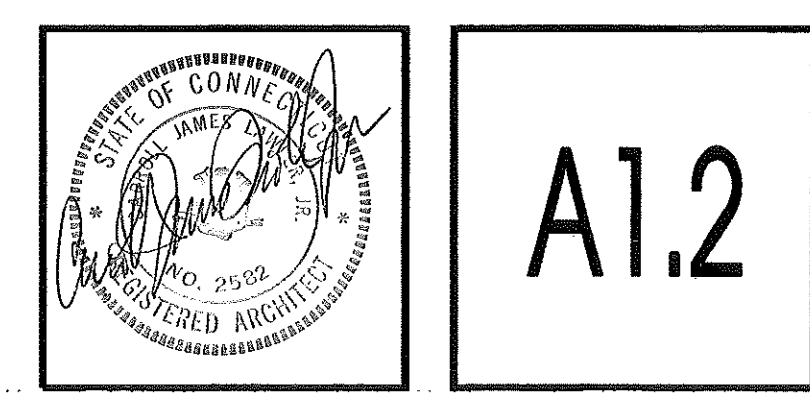
PARTIAL FLOOR PLAN AREA - B

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 Date: 12-1-98 Checked By: GMG

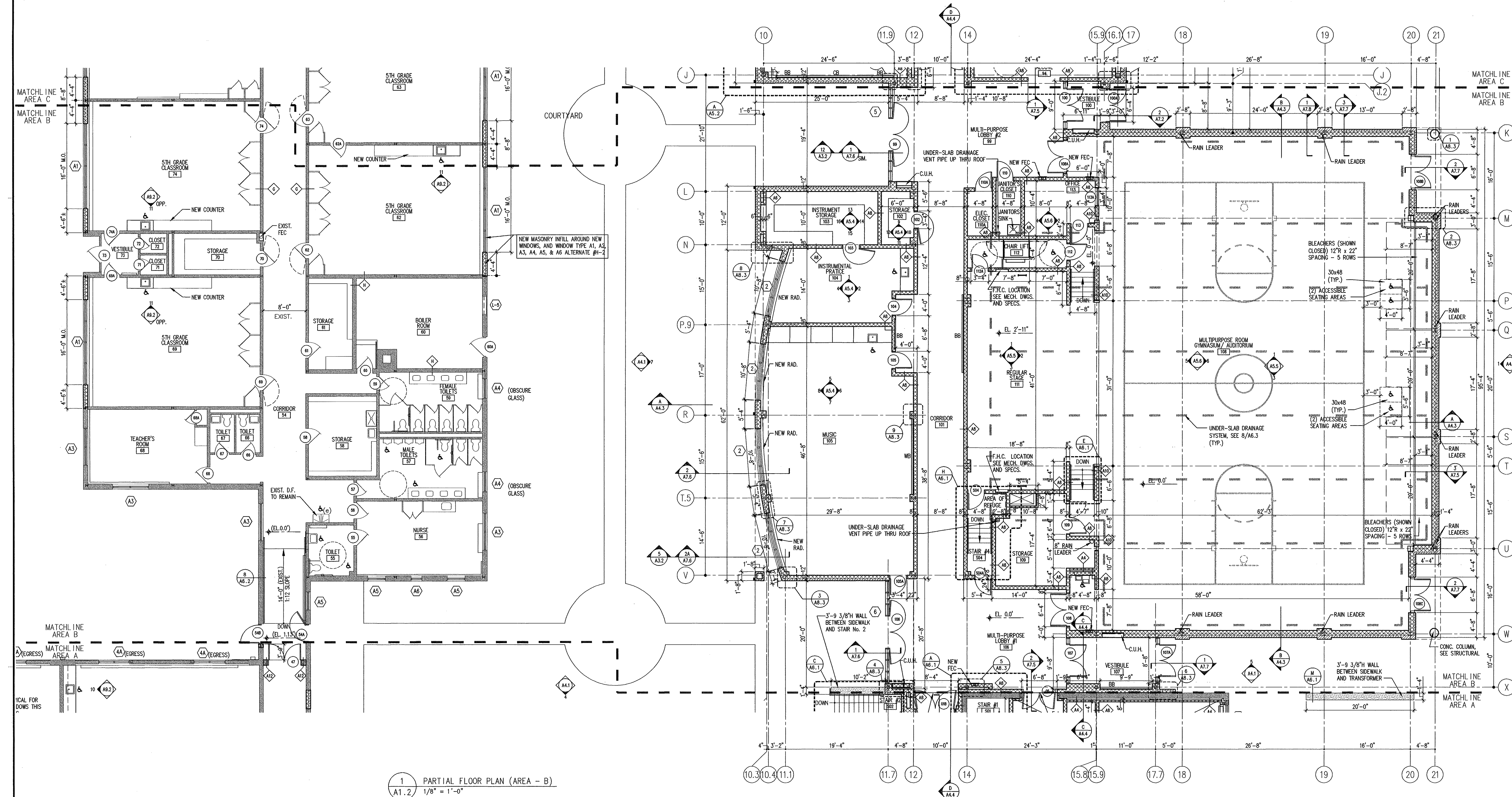
Hebron Elementary School
 Hebron, Connecticut

Additions and Renovations

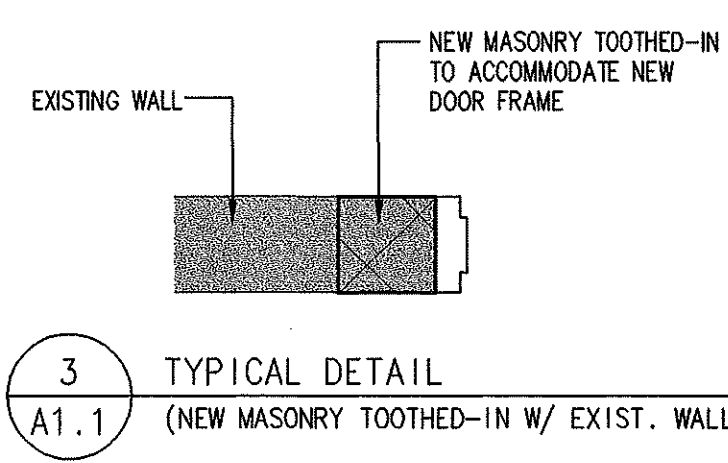
State Project Number
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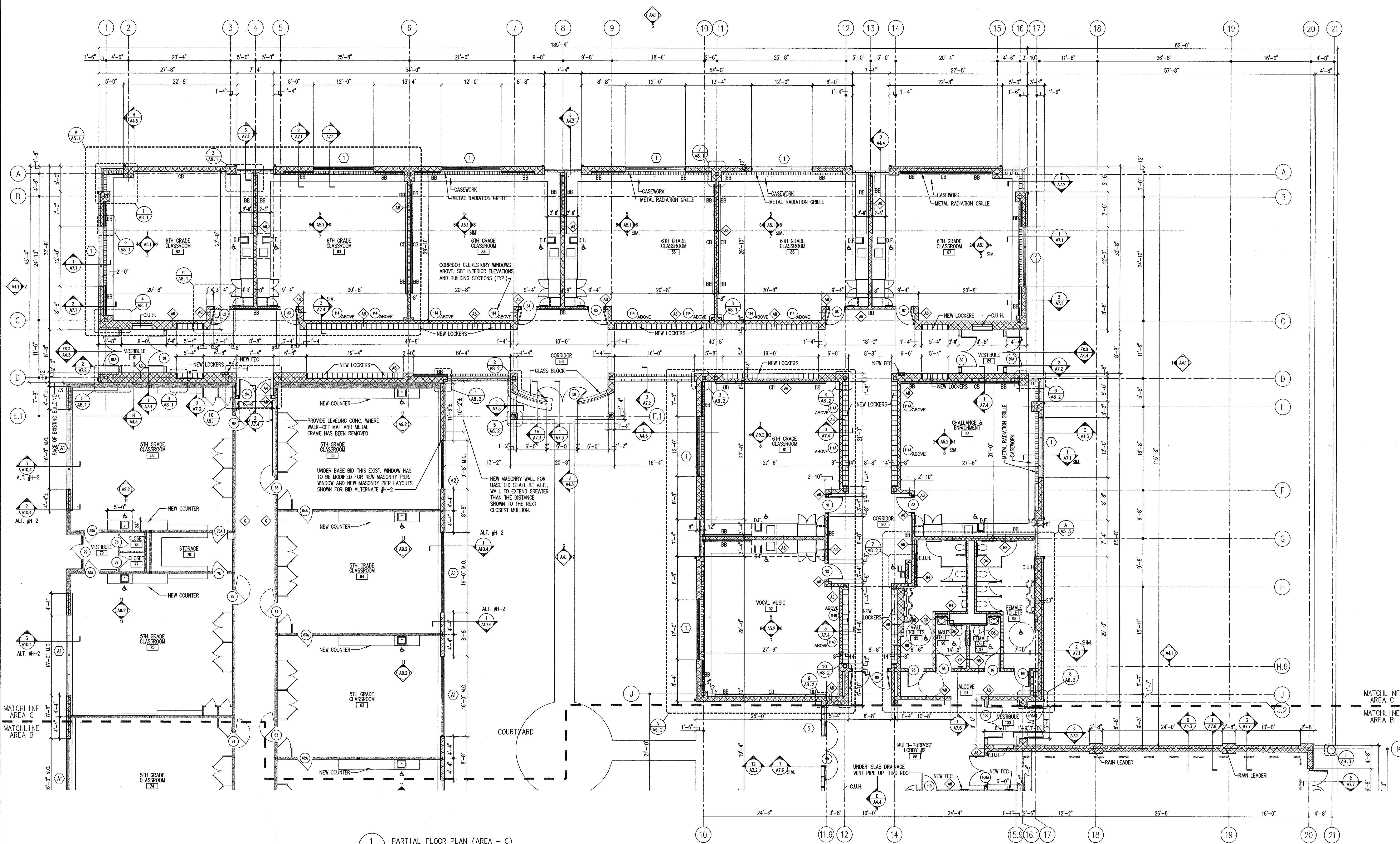
A1.2



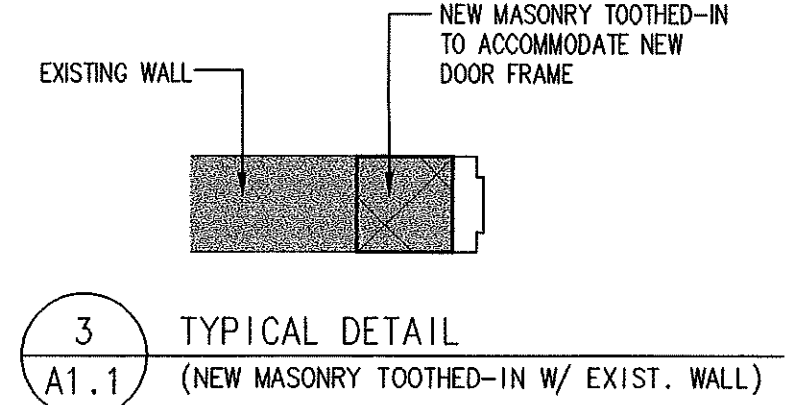
1 PARTIAL FLOOR PLAN (AREA - B)
 A1.2 1/8" = 1'-0"



3 TYPICAL DETAIL
 A1.1 (NEW MASONRY TOOTHED-IN W/ EXIST. WALL)



1 PARTIAL FLOOR PLAN (AREA - C)
1/8" = 1'-0"



3 TYPICAL DETAIL
A1.1 (NEW MASONRY TOOTHED-IN W/ EXIST. WALL)

C.J. Lawler Associates
Architects
7 South Main Street, West Hartford, Connecticut 06107
(860) 233-8266 FAX: (860) 231-9065

GIRARD & CO. ENGINEERS
Structural Engineers
40 Wethersfield Avenue, Hartford, Connecticut 06114
(860) 548-6195 FAX: (860) 548-1665

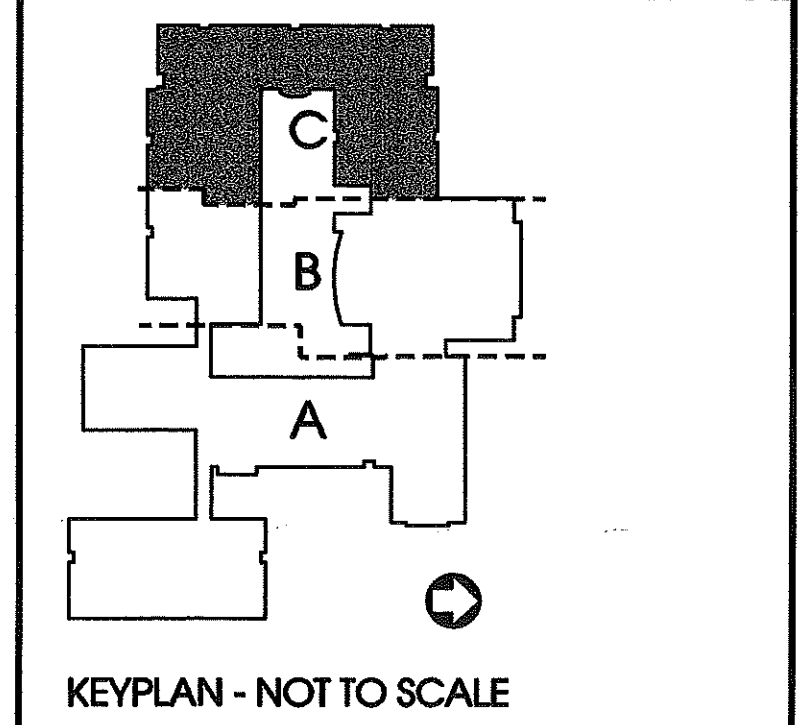
M.R. ROMING ASSOCIATES
Landscape Architects-Land Planners
224 Whiting Lane, West Hartford, Connecticut 06119
(860) 233-1266 FAX: (860) 620-9191

van ZELM HEYWOOD & SHADFORD INC
Mechanical and Electrical Engineers
29 South Main Street, West Hartford, Connecticut 06107
(860) 521-4329 FAX: (860) 521-5620

FOOD SERVICE DESIGN
Food Service
P. O. Box 18191, East Hartford, CT 06118
(860) 627-1011 FAX: (860) 628-8897

ENVIRO SAFE
Safety and Environmental Health Consultant Services
7 Rogers Lake Trail, Old Lyme, Connecticut 06371
(860) 434-8383 FAX: (860) 434-0066

CLARK ENGINEERING
Engineering Services
P. O. Box 419, Granby, CT 06035
(860) 653-4882 FAX: (860) 653-9556



- NOTE:
- (1) EXISTING HANDED ACCESSIBLE TOILET - EXISTING WATER CLOSET MOUNTED AT 18" A.F.F. (SS24) TO REMAIN, EXISTING WALL-HUNG LAVATORY MOUNTED AT 33" A.F.F. (RIM, 29" CLEAR KNEE SPACE) TO REMAIN. SIDE AND REAR GRAB BARS MOUNTED AT 34" A.F.F. TO REMAIN. PROVIDE NEW SWING-UP GRAB BAR WHERE SHOWN. PROVIDE SINGLE LEVER FAUCET, SEE PFP-1.
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 - B) TYPICAL TOOTH-IN NEW MASONRY AT ALL NEW DOOR JAMBS UNLESS OTHERWISE NOTED, SEE 3/A1.1.
 - C) SEE SHEET A2.5 FOR ADDITIONAL WORK ABOVE FINISHED CEILING IN EXISTING BUILDING AREA.

No.	Description	Date
01	BID ISSUE	4-30-99
Revisions		

PARTIAL FLOOR PLAN AREA - C

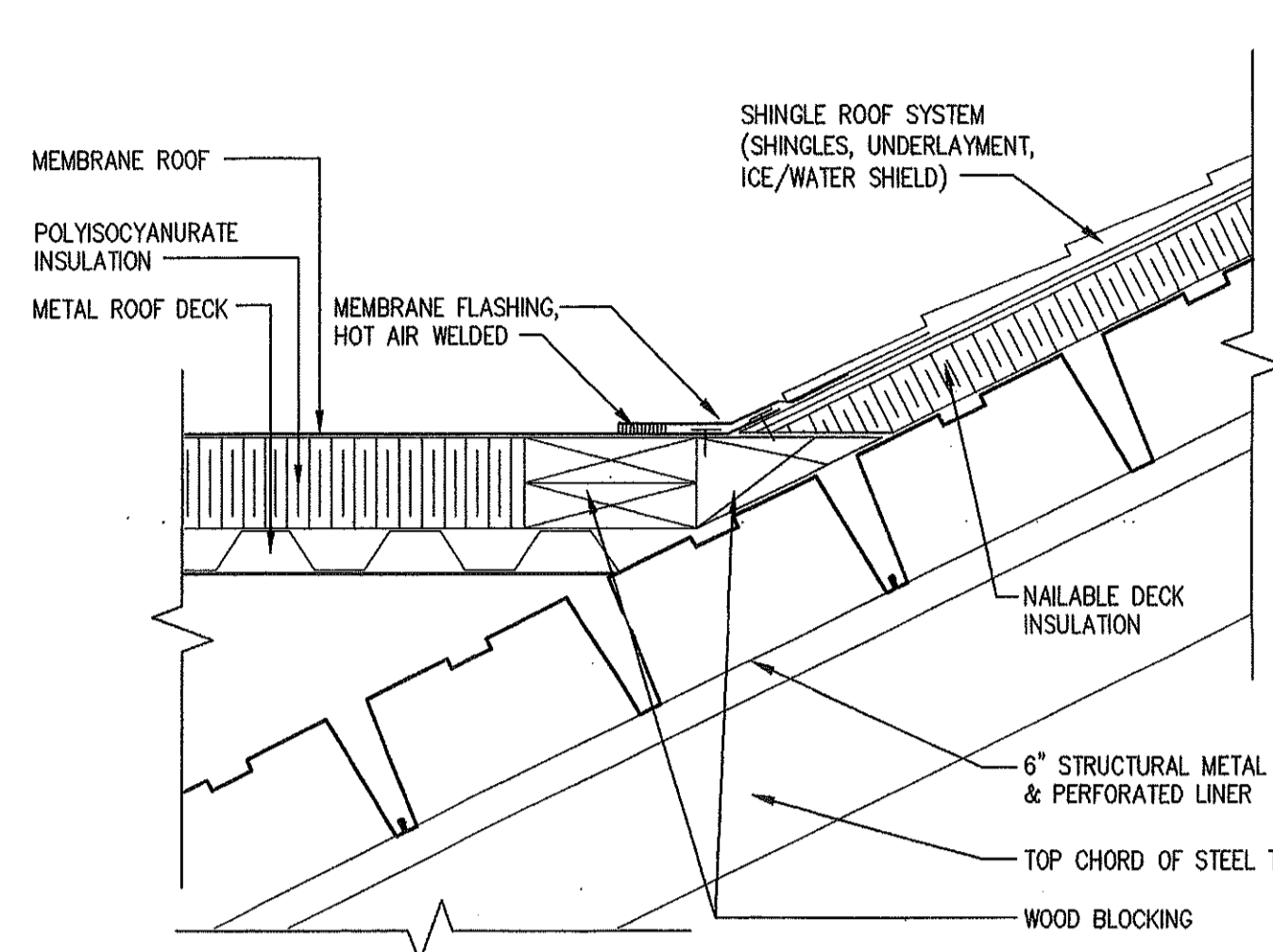
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Hebron Elementary School
Hebron, Connecticut

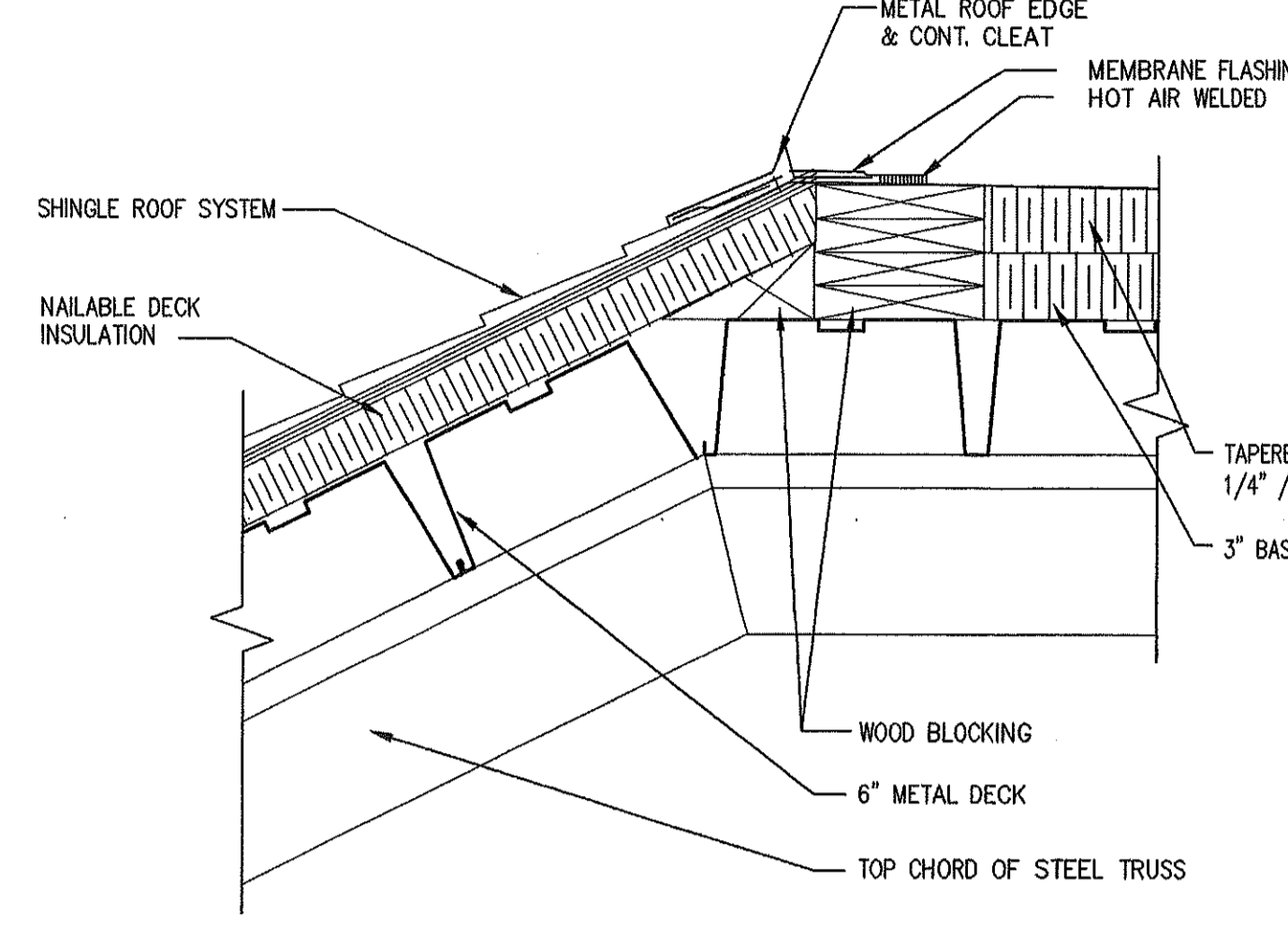
Additions and Renovations

State Project Number
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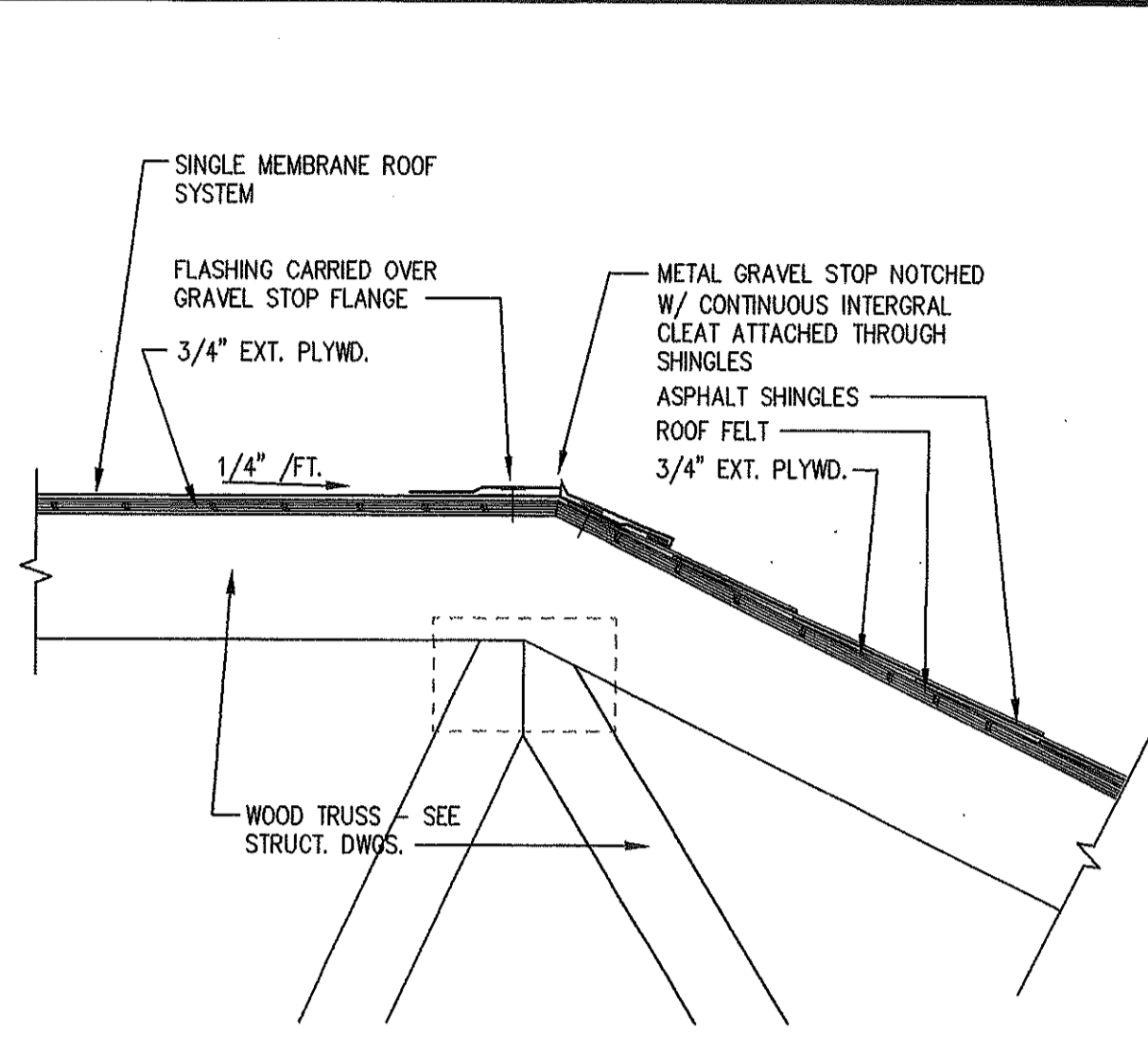
A1.3



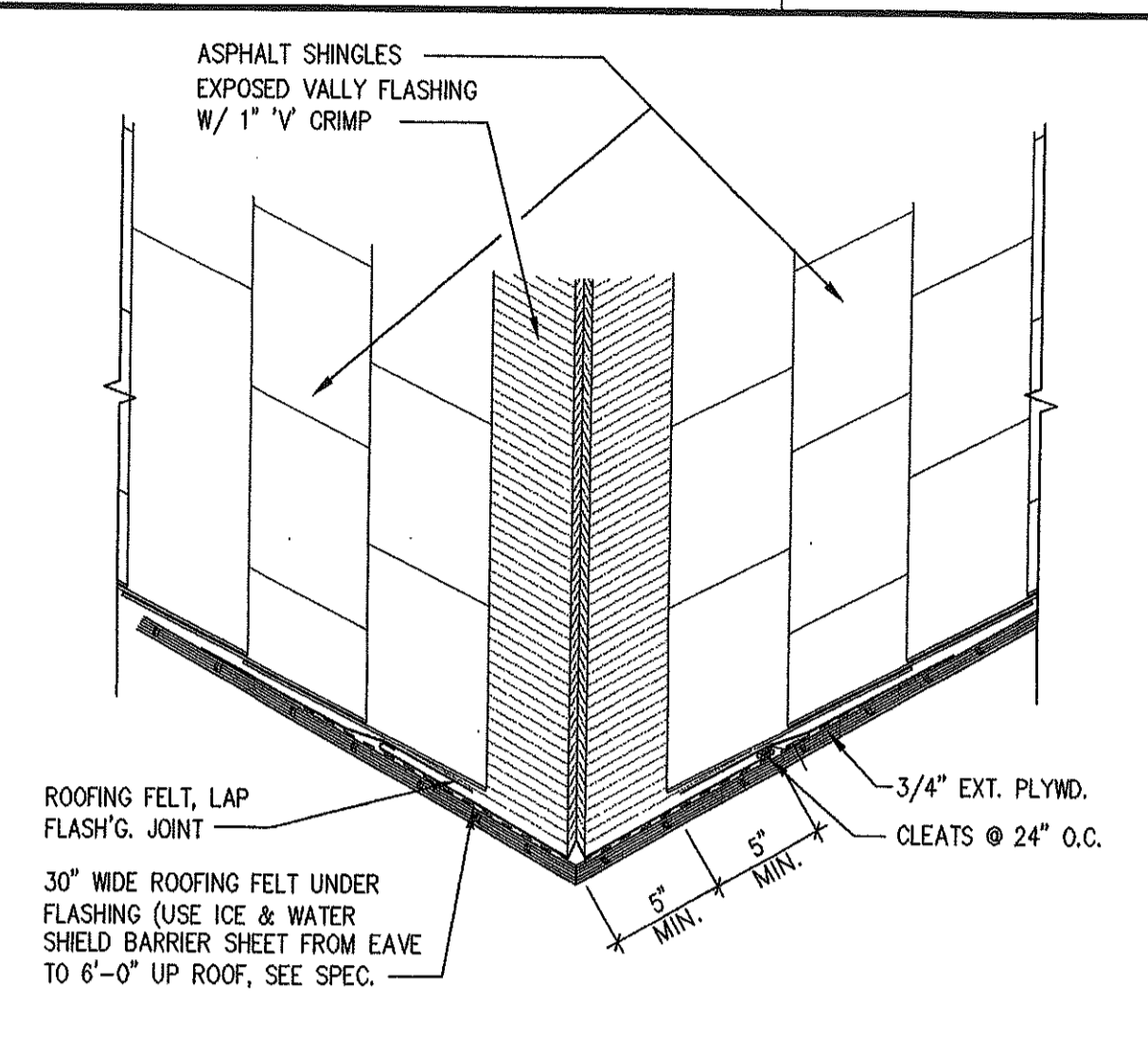
1 ROOF TRANSITION
A3.2 1 1/2" = 1'-0"



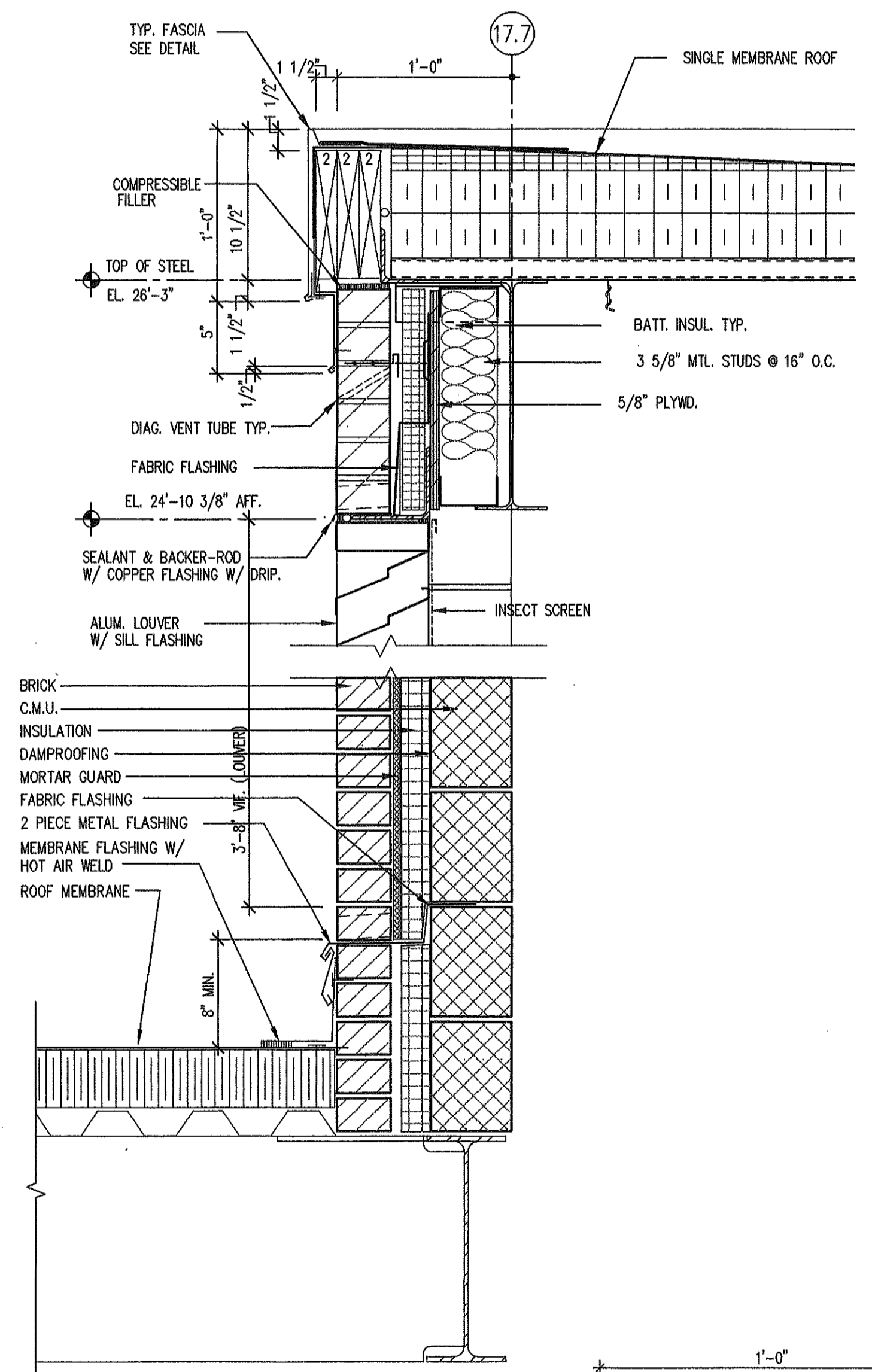
2 ROOF TRANSITION
A3.2 1 1/2" = 1'-0"



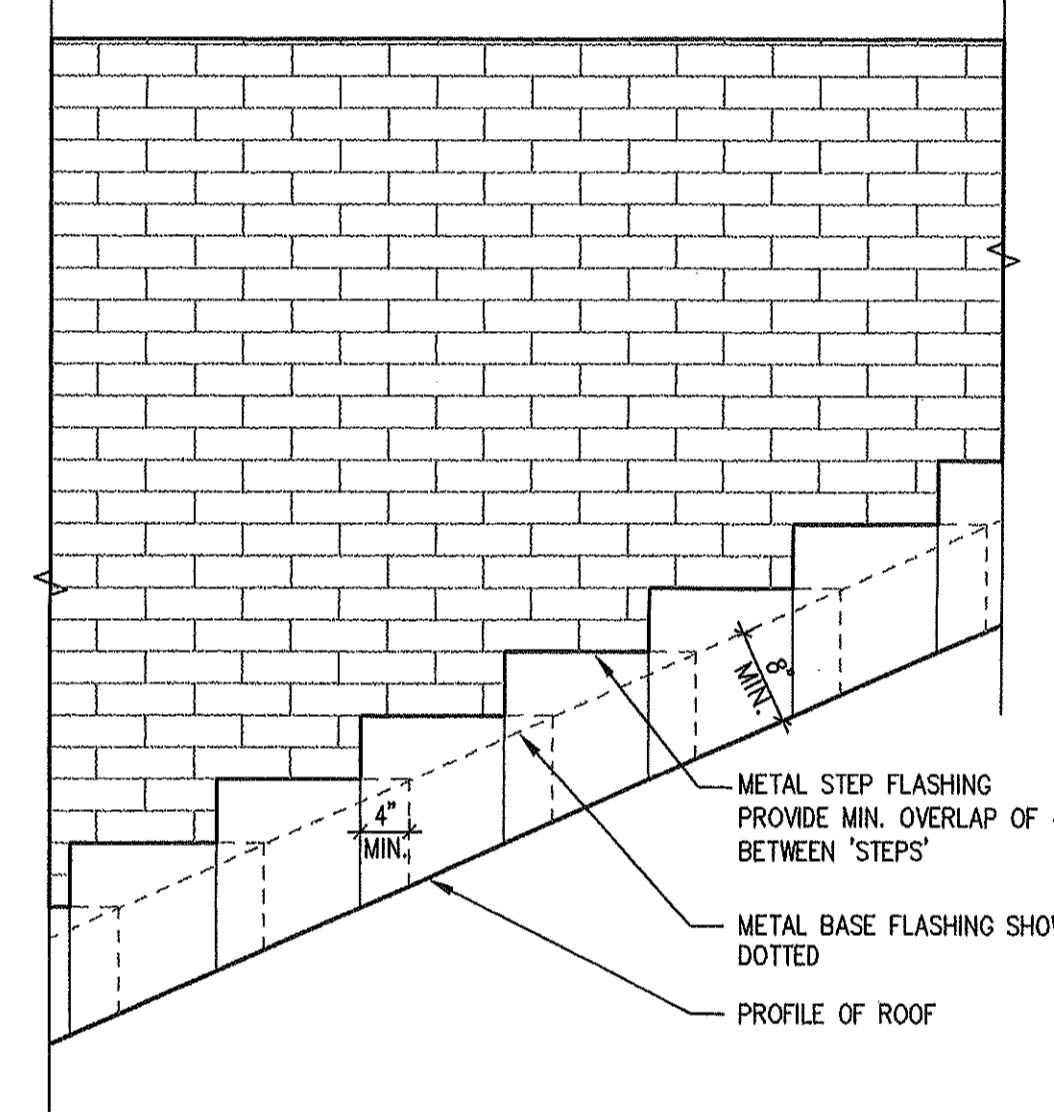
3 ROOF DETAIL @ SINGLE MEMBRANE TO ASPHALT SHINGLES
A3.2 1 1/2" = 1'-0"



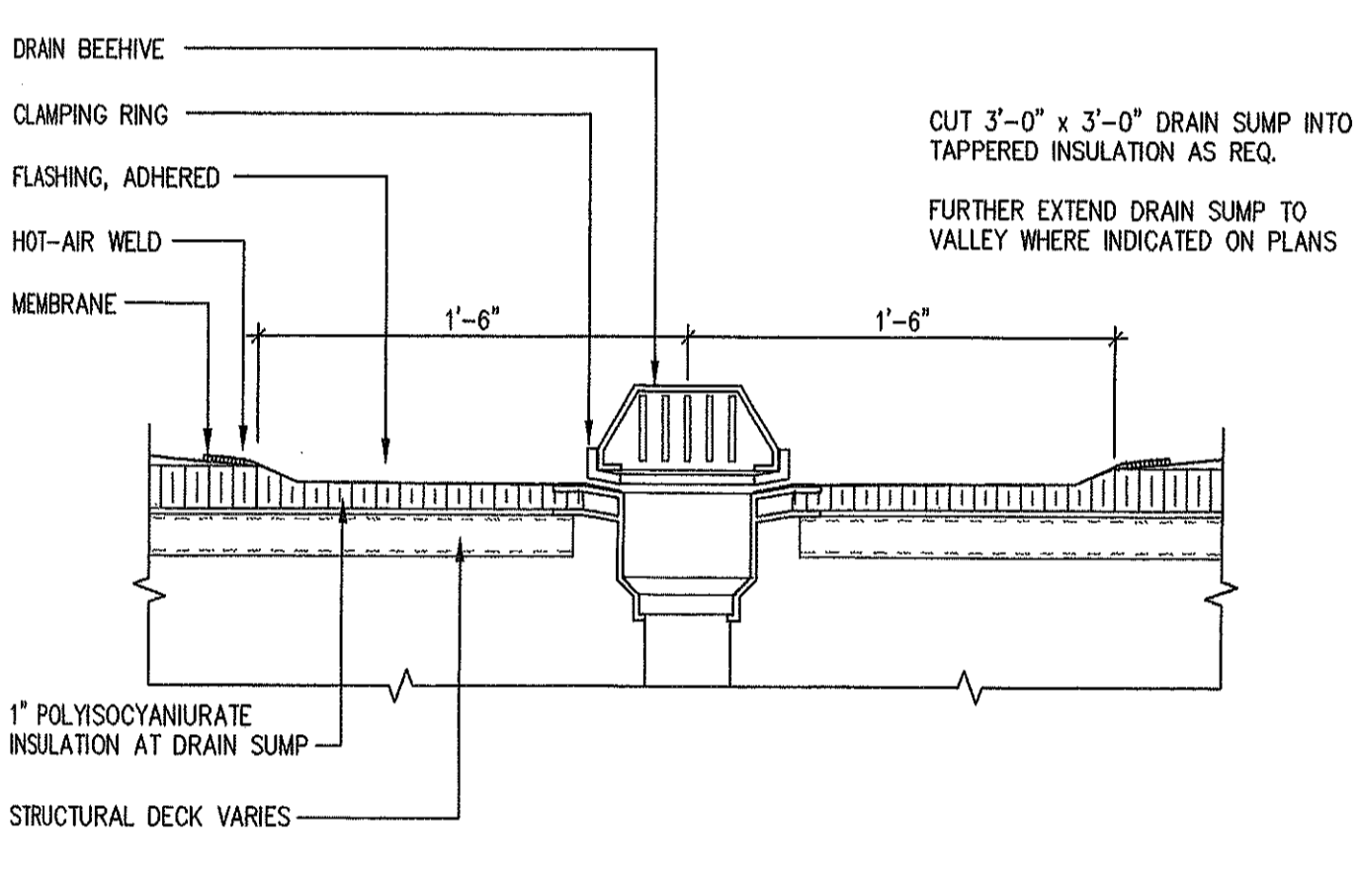
4 ROOF DETAIL @ SHINGLE VALLEY
A3.2 1 1/2" = 1'-0"



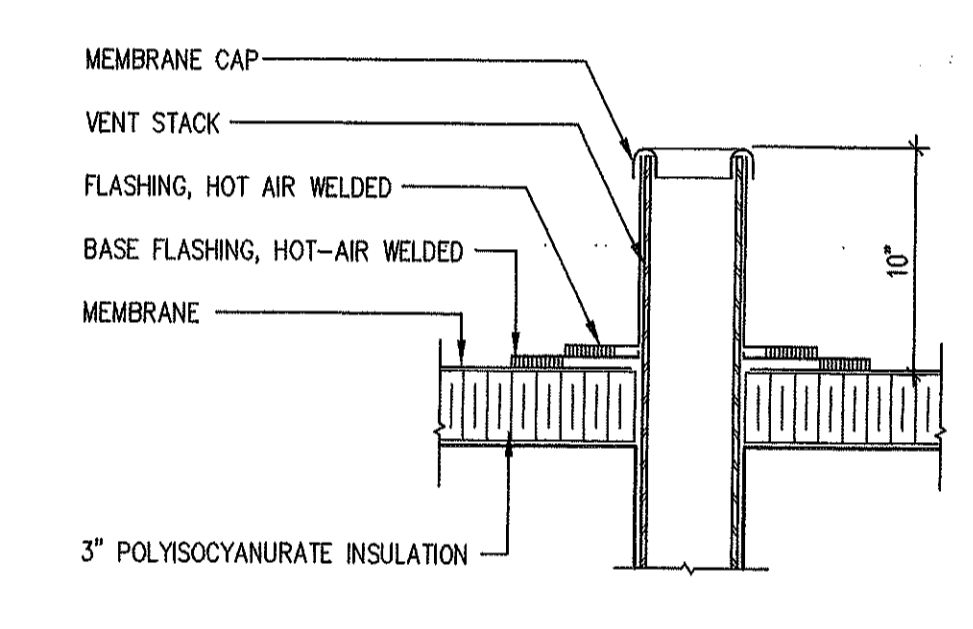
5 FLASHING DETAIL
A3.2 1 1/2" = 1'-0"



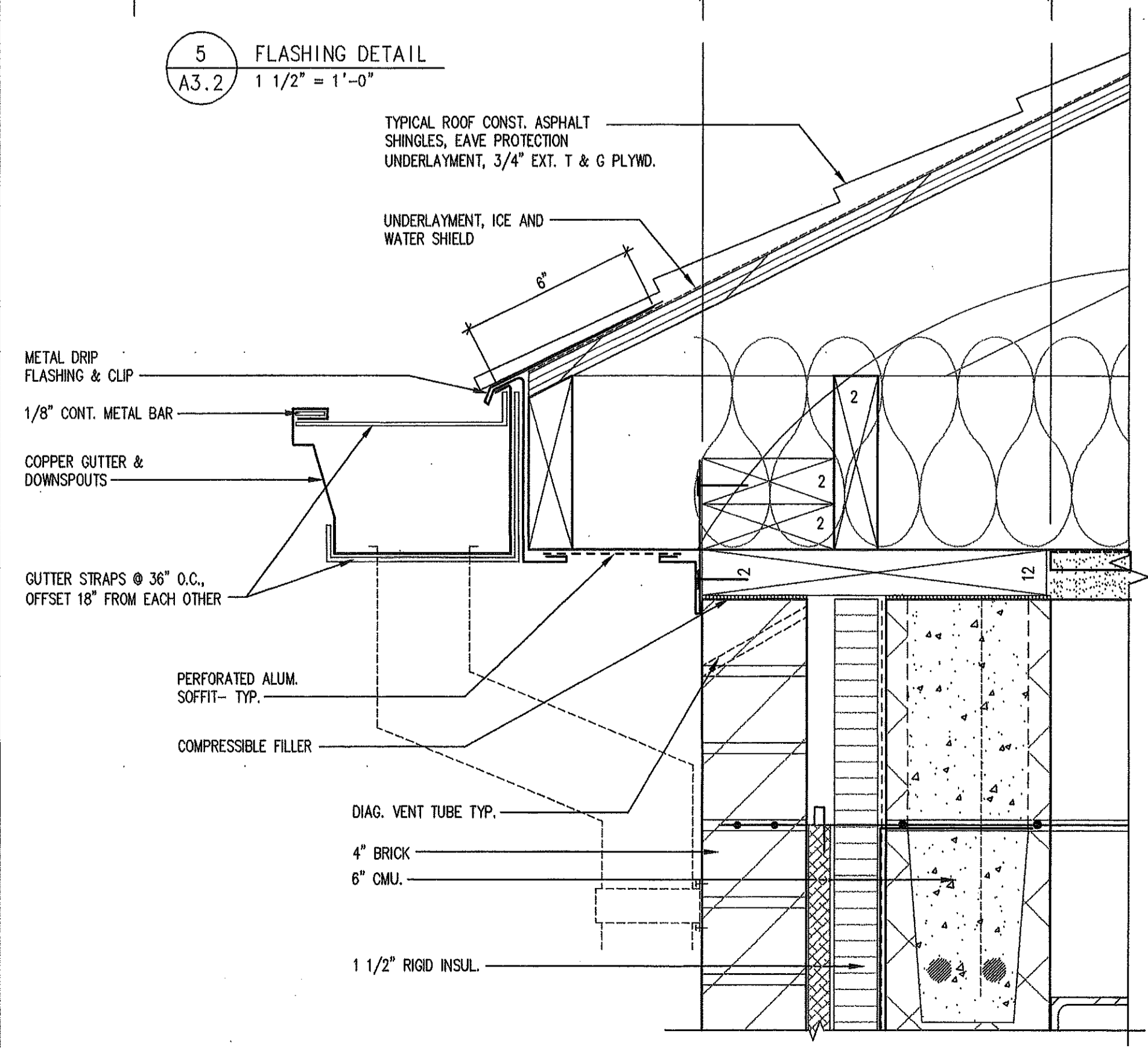
6 STEP FLASHING @ MASONRY
A3.2 3/4" = 1'-0"



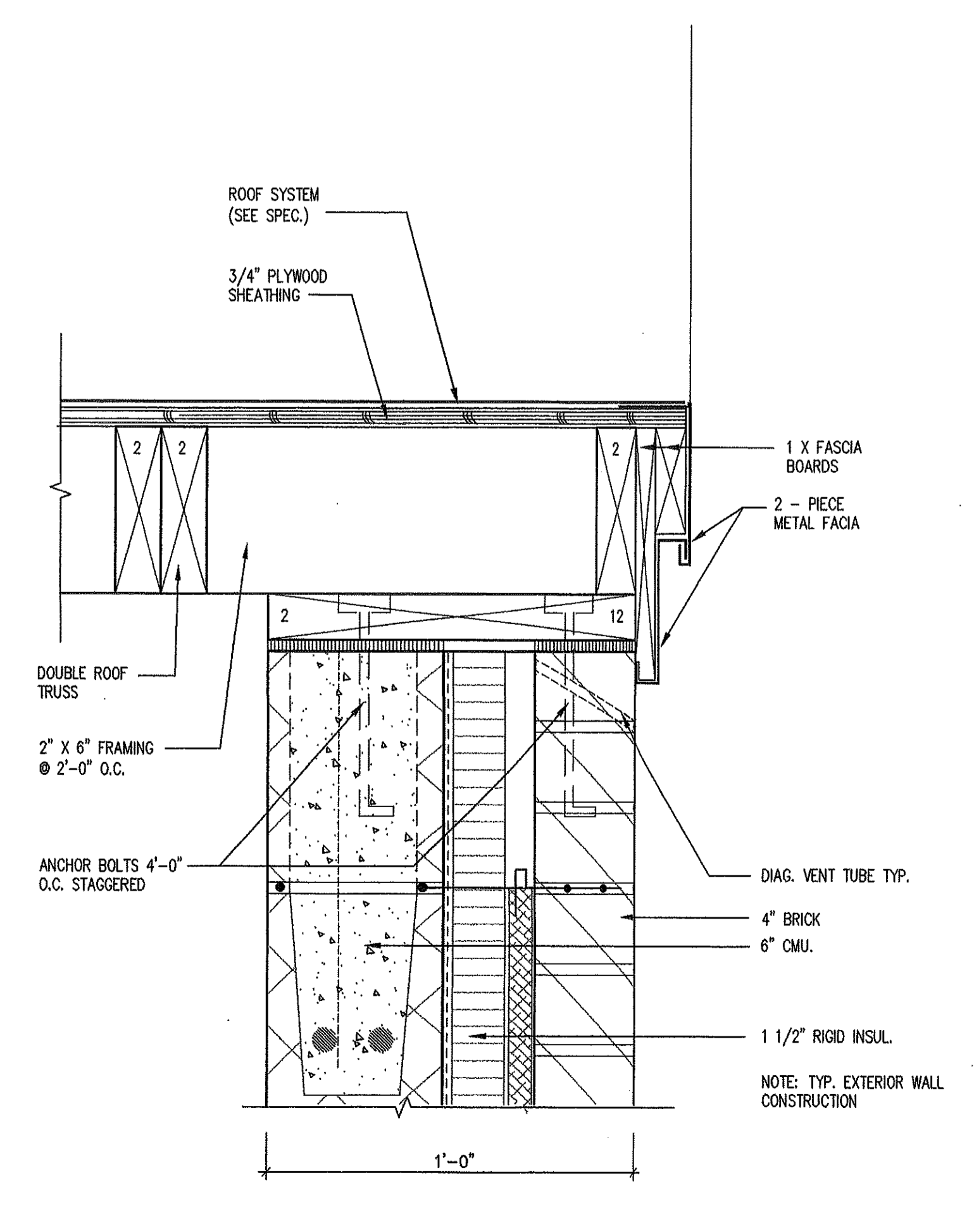
7 ROOF DRAIN
A3.2 1 1/2" = 1'-0"



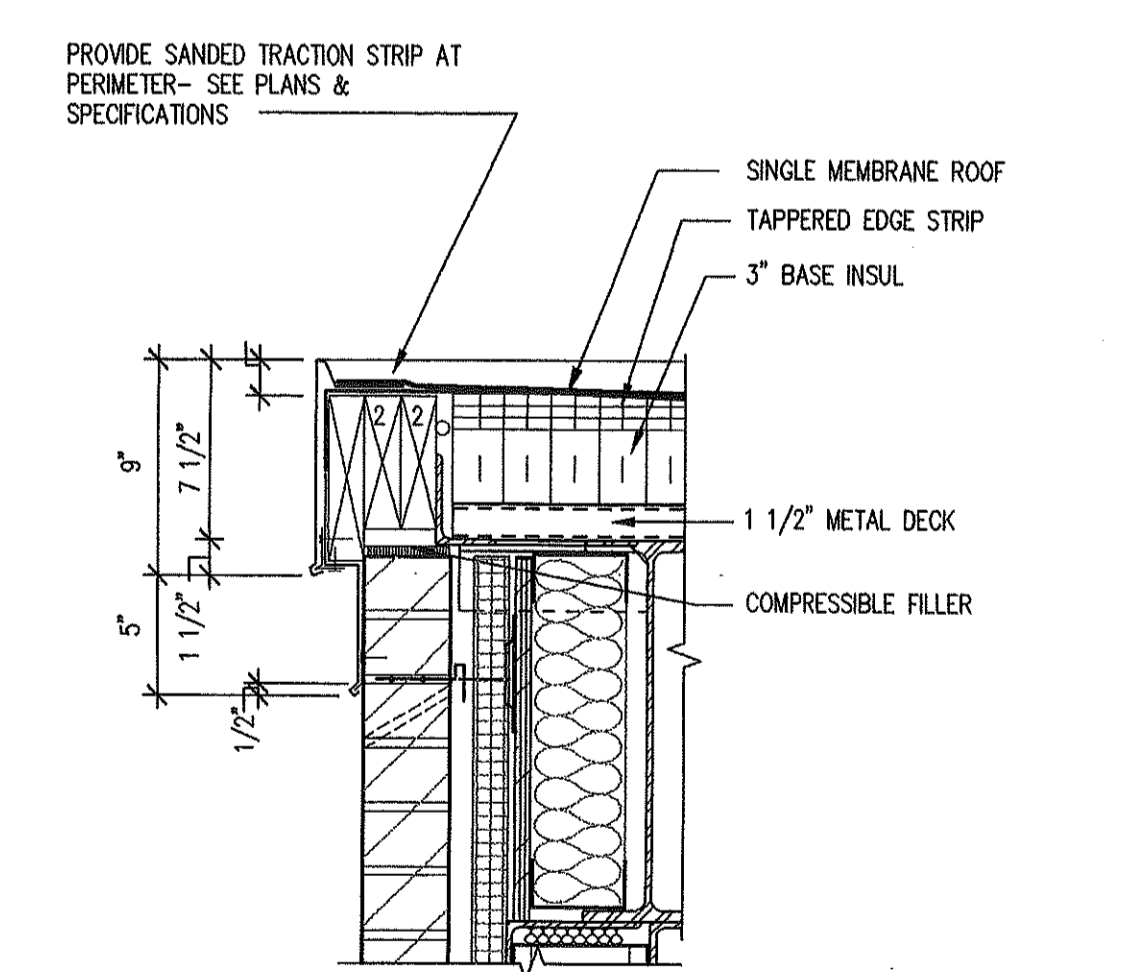
8 VENT STACK FLASHING
A3.2 NOT TO SCALE



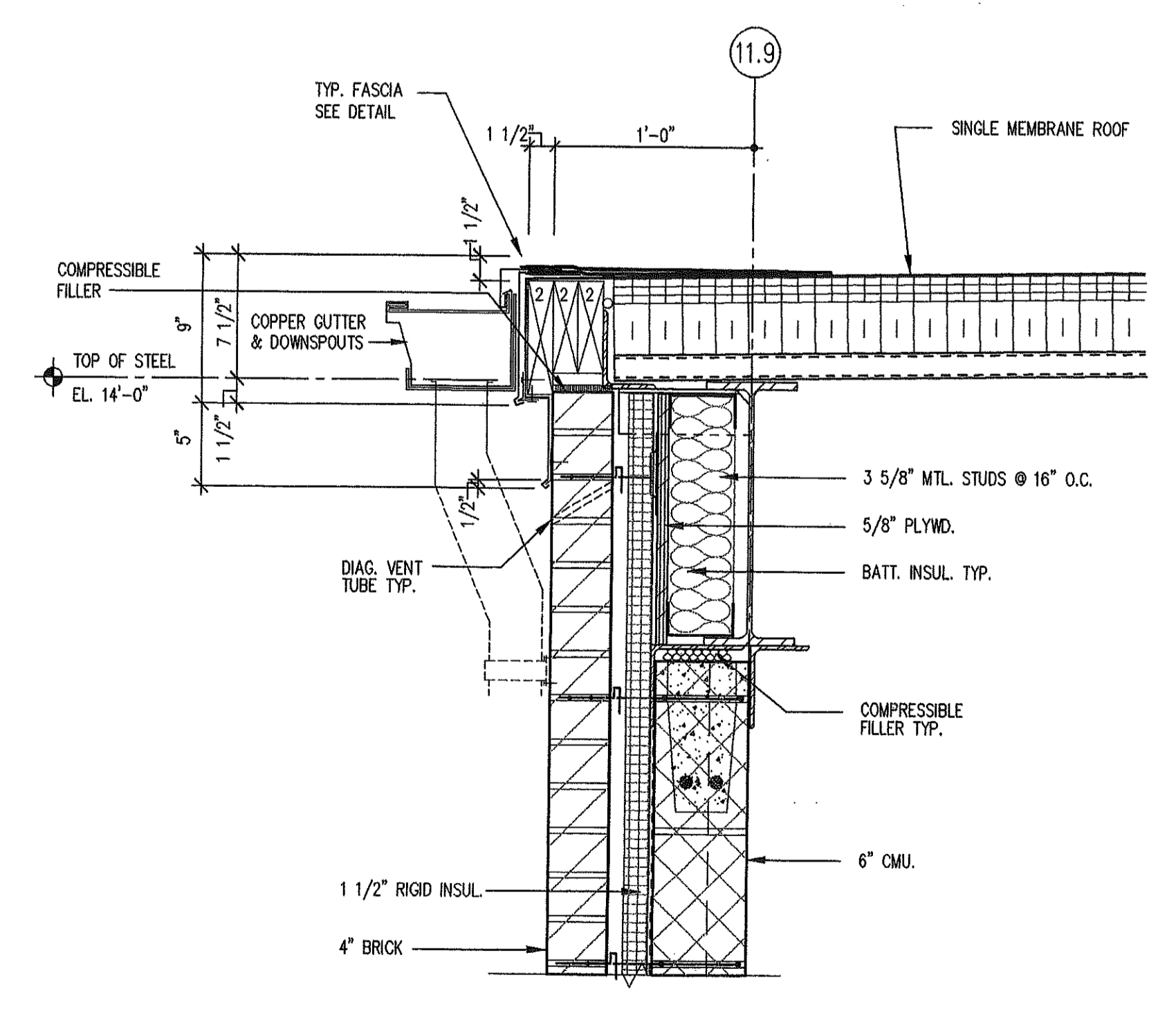
9 TYPICAL FASCIA / GUTTER DETAIL
A3.2 3" = 1'-0"



10 ROOF RAKE DETAIL
A3.2 3" = 1'-0"



11 ROOF EDGE DETAIL
A3.2 1 1/2" = 1'-0"



12 ROOF EDGE DETAIL
A3.2 1 1/2" = 1'-0"

Architects
C.J. Lawler Associates
7 South Main Street, West Hartford, Connecticut 06107
(860) 233-6622 FAX: (860) 231-0025

GIRARD & CO. ENGINEERS
Structural Engineers
40 Wetherfield Avenue, Hartford, Connecticut 06114
(860) 548-6196 FAX: (860) 548-1403

M.R. ROMING ASSOCIATES
Landscape Architects-Land Planners
224 Whiting Lane, West Hartford, Connecticut 06110
(860) 233-1256 FAX: (860) 653-0191

van ZELM HEYWOOD & SHADFORD INC
Mechanical and Electrical Engineers
29 South Main Street, West Hartford, Connecticut 06107
(860) 621-4529 FAX: (860) 621-6620

FOOD SERVICE DESIGN
Food Service
P. O. Box 18191, East Hartford, CT 06118
(860) 659-7101 FAX: (860) 659-6899

ENVIRO SAFE
Safety and Environmental Health Consultant Services
7 Rogers Lake Trail, Old Lyme, Connecticut 06371
(860) 434-8383 FAX: (860) 434-0556

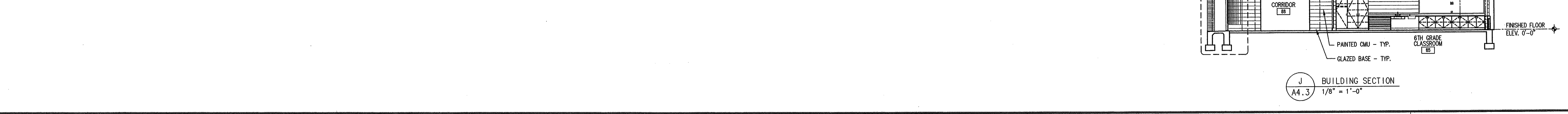
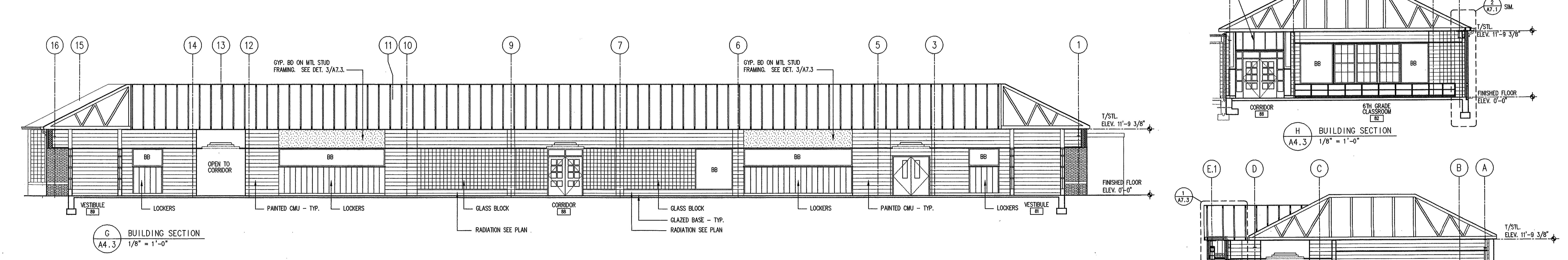
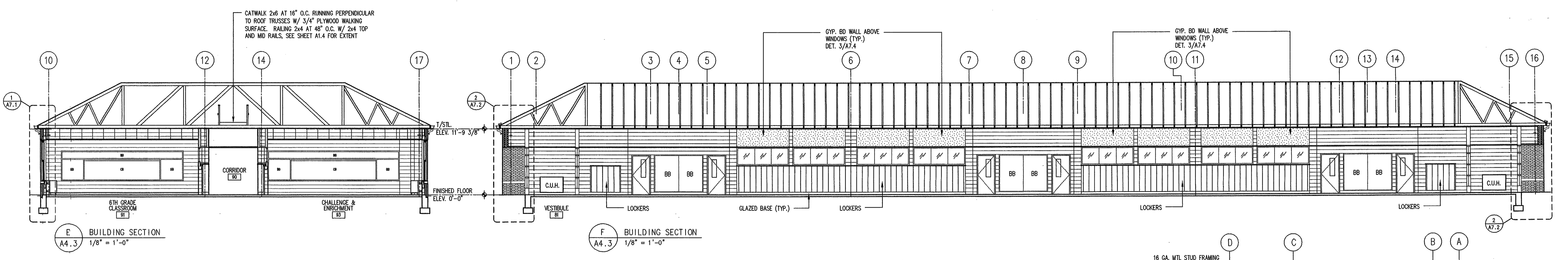
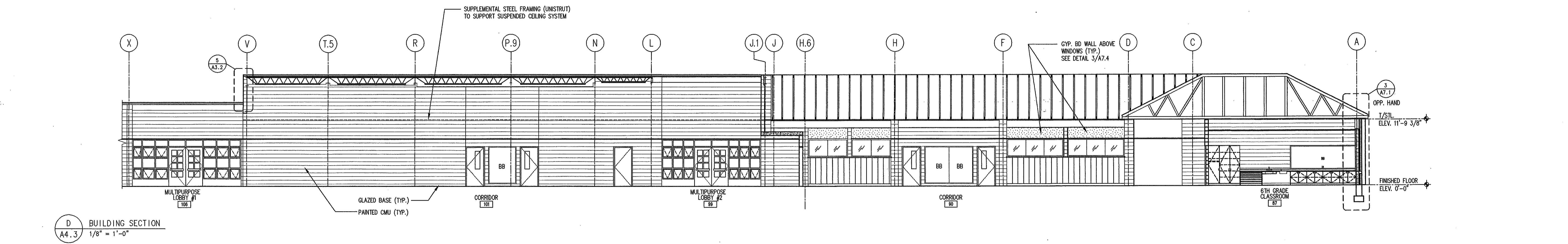
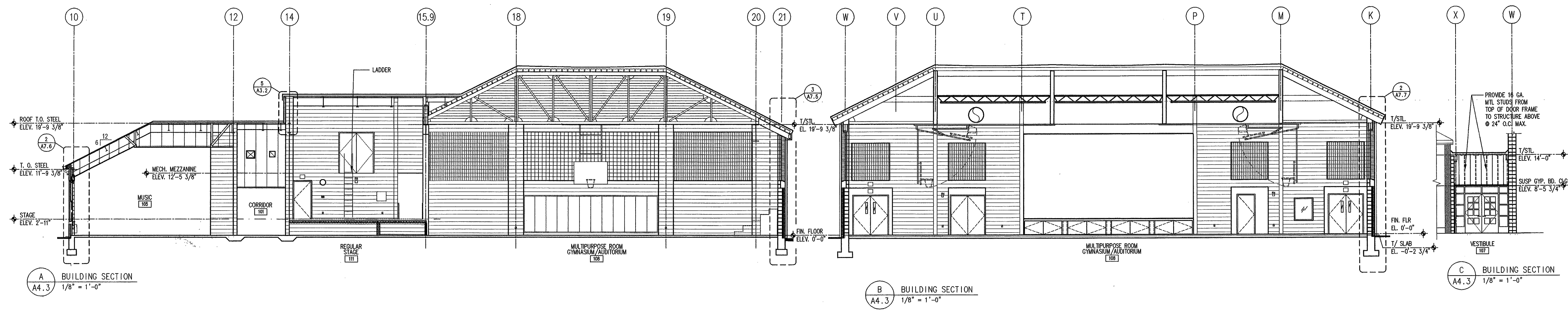
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Engineering Services
P. O. Box 419, Granby, CT 06035
(860) 653-4622 FAX: (860) 653-6226

01	BID ISSUE	4-30-99
No.	Description	Date
Revisions		

ROOF DETAILS
Scale: AS NOTED Drawn By: BUL
Date: 12-1-98 Checked By: GMG

Hebron Elementary School
Hebron, Connecticut
Additions and Renovations
State Project Number #057-029-EA

A3.2



Architects
C.J. Lawler Associates
7 South Main Street, West Hartford, Connecticut 06107
(860) 234-8262

GIRARD & CO. ENGINEERS
Structural Engineers
40 Wetherfield Avenue, Hartford, Connecticut 06114
(860) 624-1195

M.R. ROMING ASSOCIATES
Landscape Architects-Land Planners
224 Whiting Lane, West Hartford, Connecticut 06119
(860) 233-1265

van ZELM HEYWOOD & SHADFORD INC
Mechanical and Electrical Engineers
29 South Main Street, West Hartford, Connecticut 06107
(860) 621-4329

FOOD SERVICE DESIGN
Food Service
P. O. Box 18191, East Hartford, CT 06118
(860) 628-7101

ENVIRO SAFE
Safety and Environmental Health Consultant Services
7 Rogers Lake Trail, Old Lyme, Connecticut 06371
(860) 434-8383

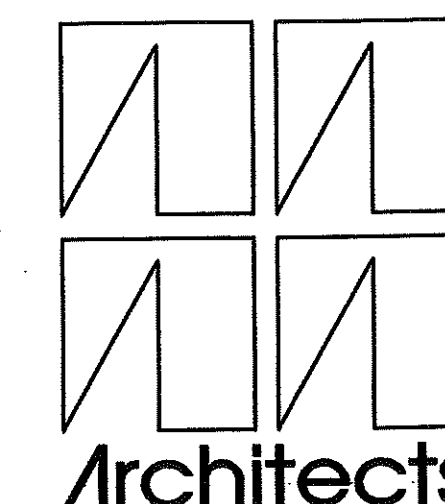
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Engineering Services
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01	BID ISSUE	4-30-99
No.	Description	Date
Revisions		

BUILDING SECTIONS
Scale: 1/8"=1'-0" Drawn By: BJL
Date: 12-1-98 Checked By: GMG

Hebron Elementary School
Hebron, Connecticut
Additions and Renovations
State Project Number #067-029-EA

A4.3



C.J. Lawler Associates
 7 South Main Street, West Hartford, Connecticut 06107
 (860) 233-8225 FAX: (860) 281-1068

GIRARD & CO. ENGINEERS
 Structural Engineers
 40 Wetherfield Avenue, Hartford, Connecticut 06114
 (860) 233-1252 FAX: (860) 621-6620

M.R. ROMING ASSOCIATES
 Landscape Architects-Land Planners
 224 Whitting Lane, West Hartford, Connecticut 06110
 (860) 233-1252 FAX: (860) 623-0191

van ZELM HEYWOOD & SHADFORD INC
 Mechanical and Electrical Engineers
 29 South Main Street, West Hartford, Connecticut 06107
 (860) 621-4329 FAX: (860) 621-5620

FOOD SERVICE DESIGN
 Food Service
 P. O. Box 18191, East Hartford, CT 06118
 (860) 628-7101 FAX: (860) 628-8839

ENVIRO SAFE
 Safety and Environmental Health Consultant Services
 7 Rogers Lake Trail, Old Lyme, Connecticut 06371
 (860) 434-8383 FAX: (860) 434-0204

CLARK ENGINEERING
 Engineering Services
 P. O. Box 419, Granby, CT 06035
 (860) 653-4382 FAX: (860) 653-8256

NOTE: SEE STRUCTURAL DWGS. FOR ADDITIONAL LOCATIONS OF BOND BEAM AND REINFORCING.

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No.	Description	Date

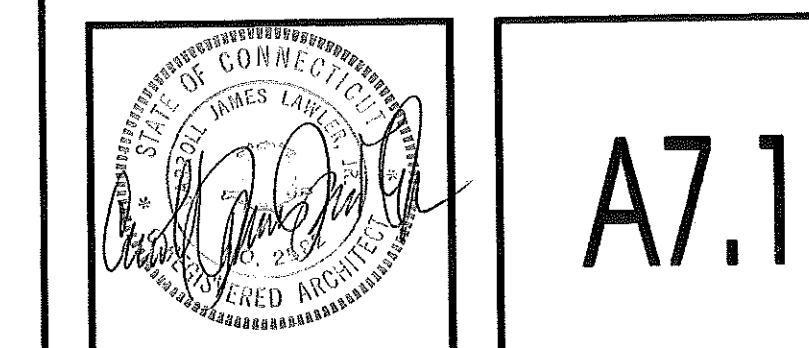
SECTION DETAILS

Scale: 1 1/2" = 1'-0" Drawn By: BT
 Date: 12-1-98 Checked By: GMG

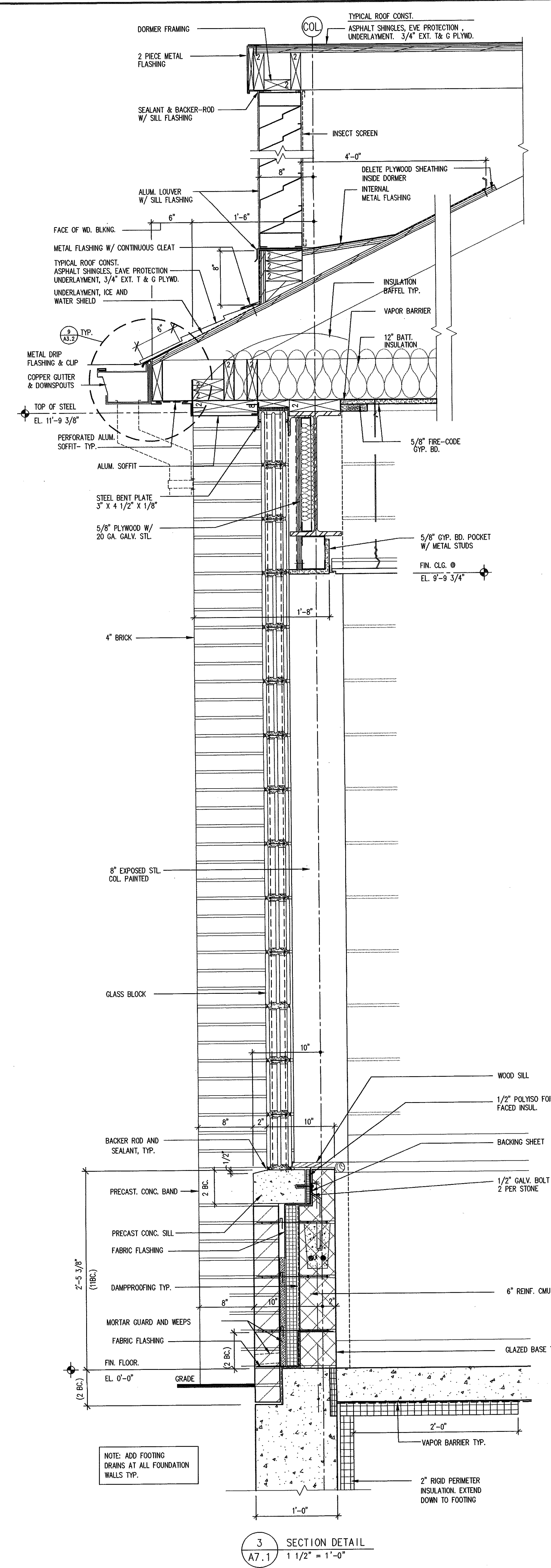
Hebron Elementary School
 Hebron, Connecticut

Additions and Renovations

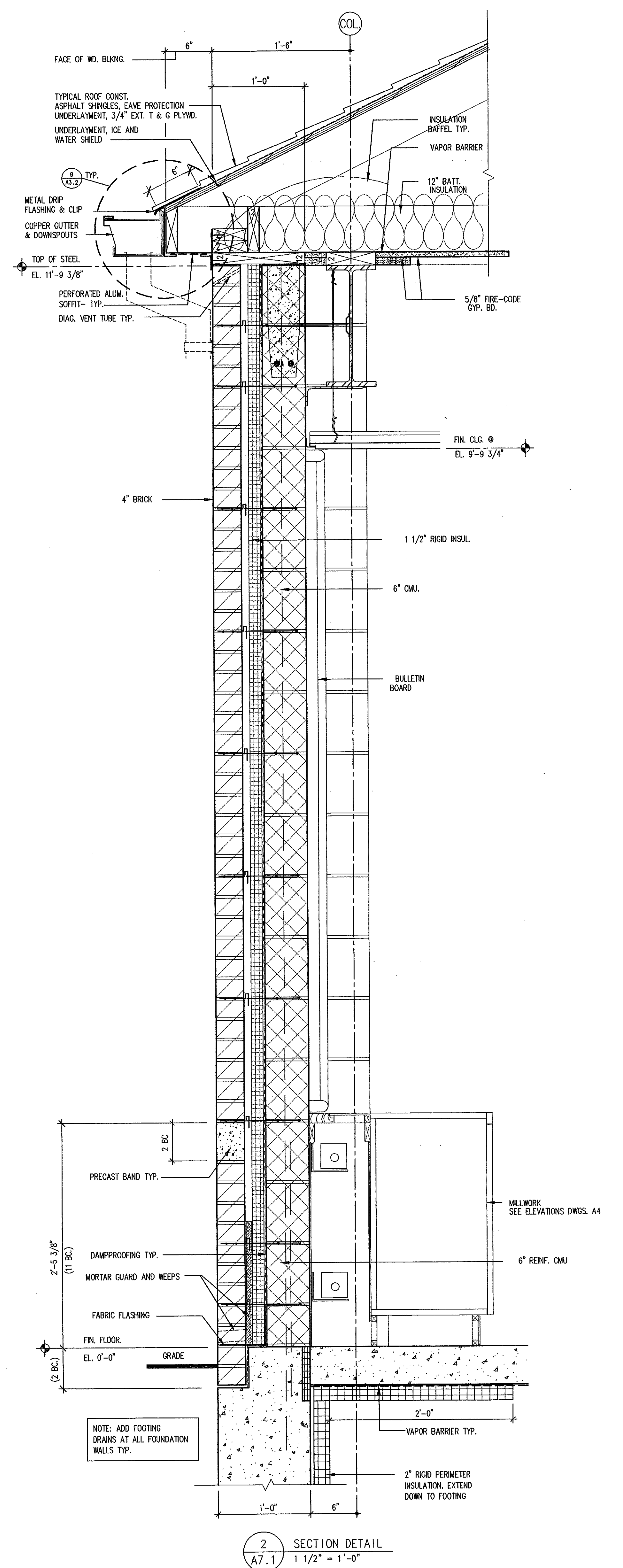
State Project Number #067-029-EA



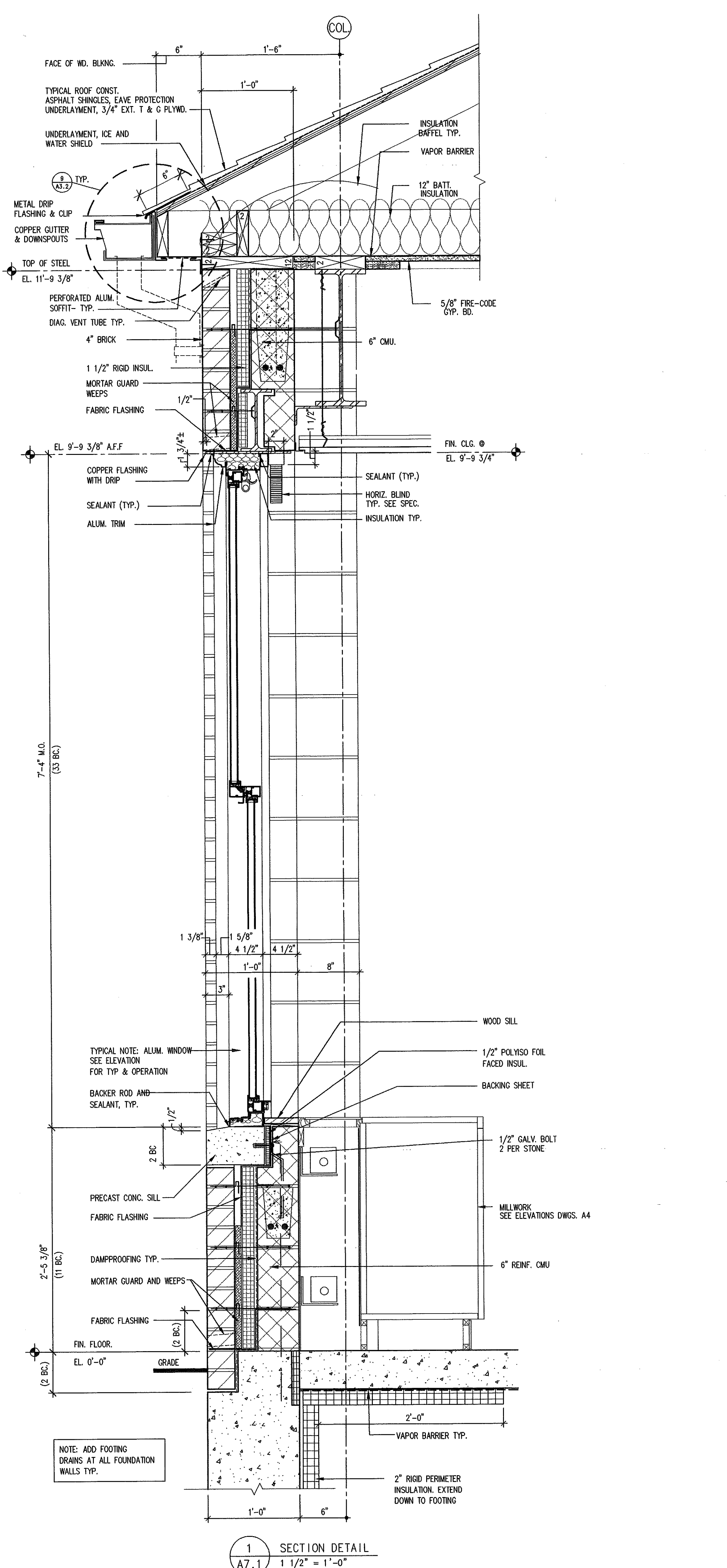
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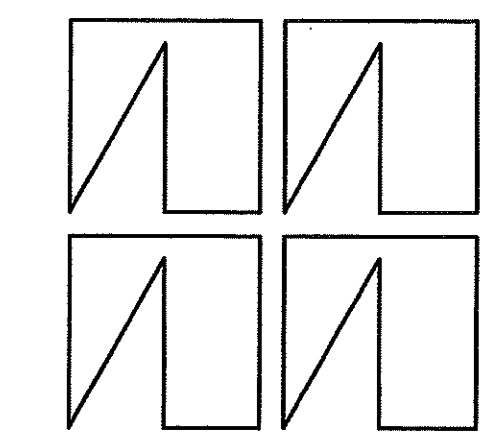
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 A7.1 1 1/2" = 1'-0"



2 SECTION DETAIL
 A7.1 1 1/2" = 1'-0"



1 SECTION DETAIL
 A7.1 1 1/2" = 1'-0"



Architects
C.J. Lawler Associates
 7 South Main Street, West Hartford, Connecticut 06114
 (860) 233-6525 FAX: (860) 231-0033

GIRARD & CO. ENGINEERS
 Structural Engineers
 40 Wetherfield Avenue, Hartford, Connecticut 06114
 (860) 548-6105 FAX: (860) 548-1463

M.R. ROMING ASSOCIATES
 Landscape Architects-Land Planners
 224 Whiting Lane, West Hartford, Connecticut 06110
 (860) 233-1265 FAX: (860) 623-0191

van ZELM HEYWOOD & SHADFORD INC
 Mechanical and Electrical Engineers
 29 South Main Street, West Hartford, Connecticut 06107
 (860) 621-4329 FAX: (860) 621-6620

FOOD SERVICE DESIGN
 Food Service
 P. O. Box 18191, East Hartford, CT 06118
 (860) 626-7101 FAX: (860) 626-8839

ENVIRO SAFE
 Safety and Environmental Health Consultant Services
 7 Rogers Lake Trail, Old Lyme, Connecticut 06371
 (860) 454-8383 FAX: (860) 434-0036

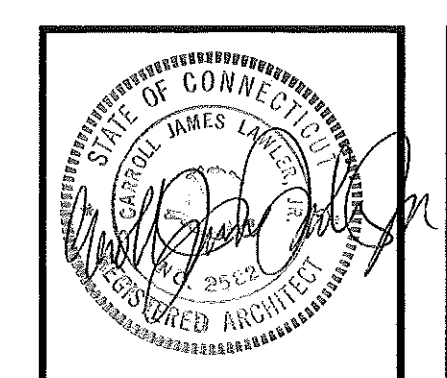
CLARK ENGINEERING
 Engineering Services
 P. O. Box 419, Granby, CT 06035
 (860) 653-4382 FAX: (860) 653-8256

NOTE: SEE STRUCTURAL DWGS. FOR ADDITIONAL LOCATIONS OF BOND BEAM AND REINFORCING.

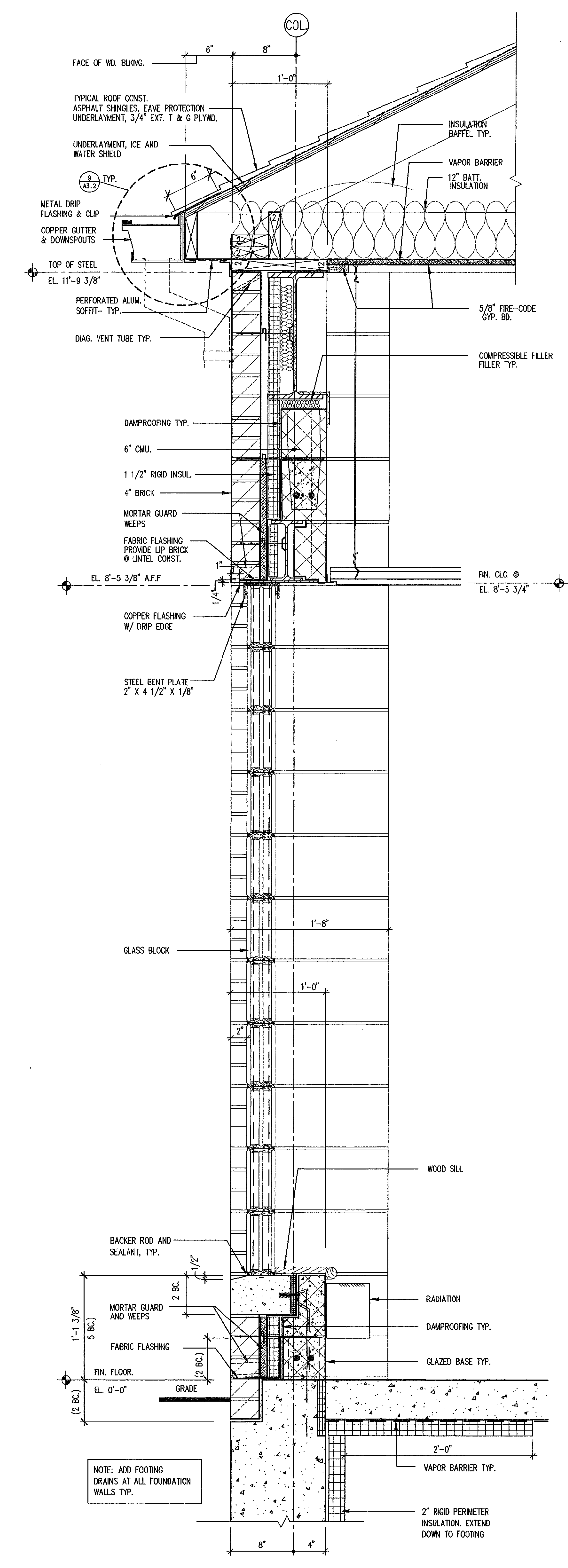
No.	Description	Date
01	BID ISSUE	4-30-99
Revisions		

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 Date: 12-1-98 Checked By: GMG

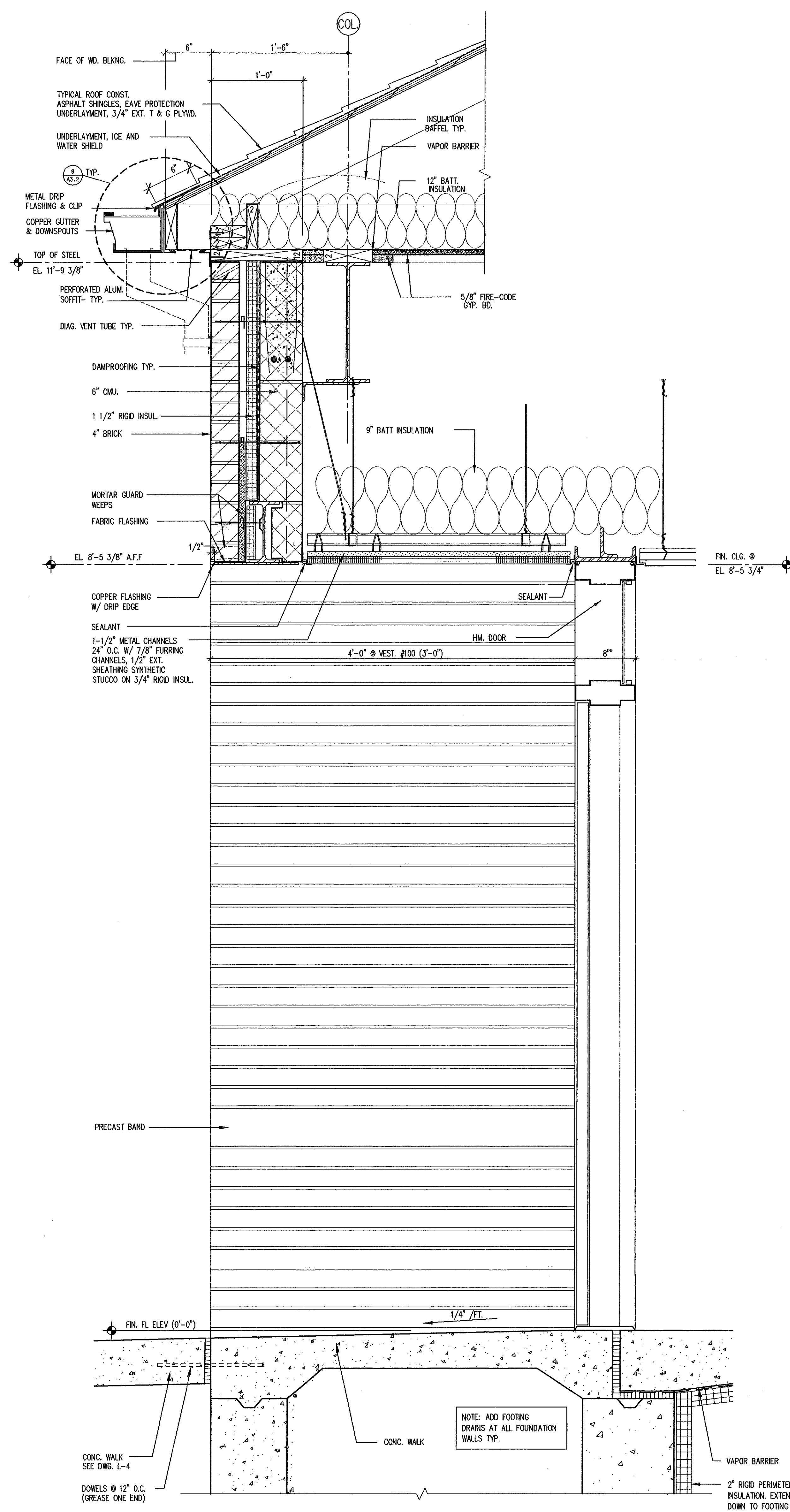
Hebron Elementary School
 Hebron, Connecticut
 Additions and Renovations
 State Project Number #067-029-EA



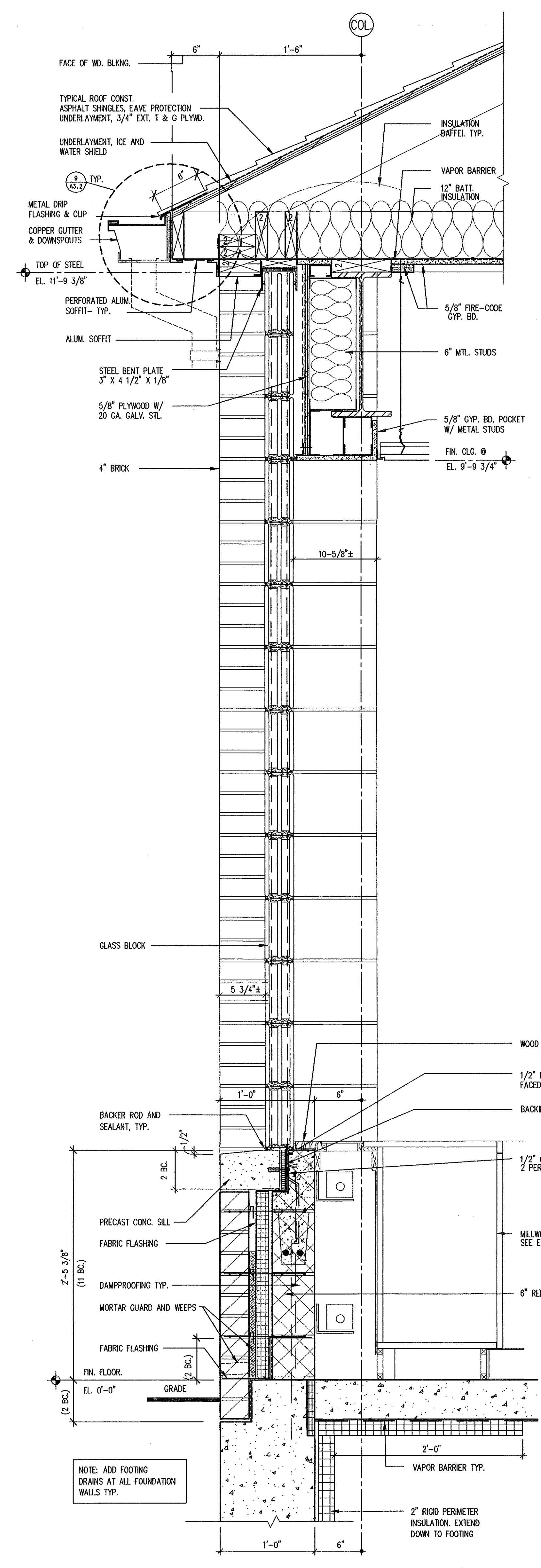
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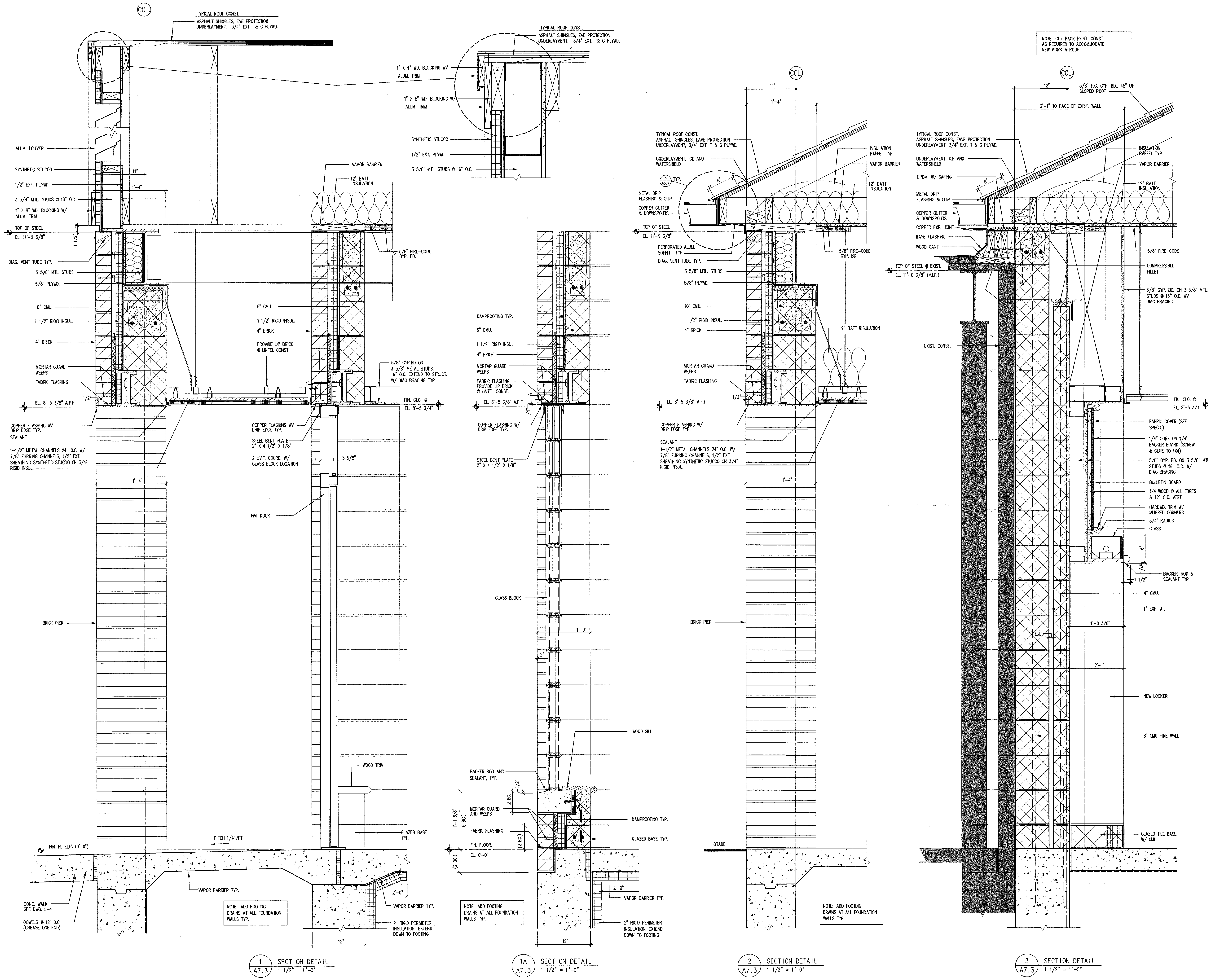
3 SECTION DETAIL
 1 1/2" = 1'-0"



2 SECTION DETAIL
 1 1/2" = 1'-0"



1 SECTION DETAIL
 1 1/2" = 1'-0"



Architects
C.J. Lawler Associates
 7 South Main Street, West Hartford, Connecticut 06107
 (860) 233-8826 FAX: (860) 231-9033

GIRARD & CO. ENGINEERS
 Structural Engineers
 40 Wetherfield Avenue, Hartford, Connecticut 06114
 (860) 624-6196 FAX: (860) 624-6196

M.R. ROMING ASSOCIATES
 Landscape Architects-Land Planners
 224 Whiting Lane, West Hartford, Connecticut 06119
 (860) 233-1262 FAX: (860) 624-9191

van ZELM HEYWOOD & SHADFORD INC
 Mechanical and Electrical Engineers
 29 South Main Street, West Hartford, Connecticut 06107
 (860) 621-4329 FAX: (860) 621-6600

FOOD SERVICE DESIGN
 Food Service
 P. O. Box 18191, East Hartford, CT 06118
 (860) 628-7101 FAX: (860) 628-8899

ENVIRO SAFE
 Safety and Environmental Health Consultant Services
 7 Rogers Lake Trail, Old Lyme, Connecticut 06371
 (860) 434-8383 FAX: (860) 434-0386

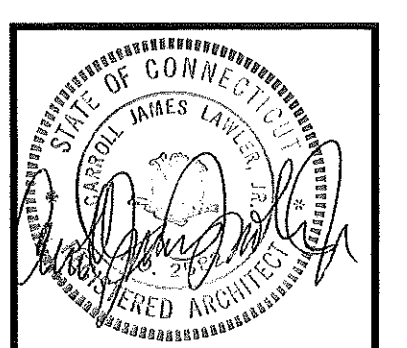
CLARK ENGINEERING
 Engineering Services
 P. O. Box 419, Granby, CT 06036
 (860) 653-4382 FAX: (860) 653-8256

NOTE: SEE STRUCTURAL DWGS. FOR ADDITIONAL LOCATIONS OF BOND BEAM AND REINFORCING.

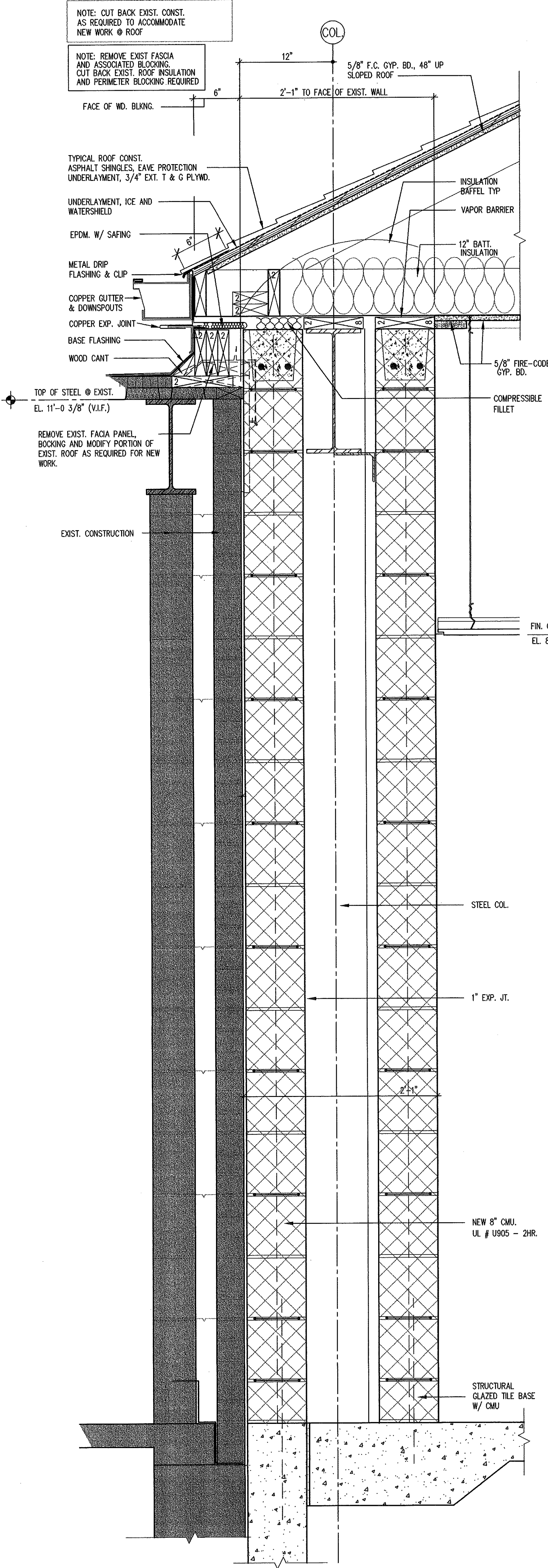
01	BID ISSUE	4-30-99
No.	Description	Date
Revisions		

SECTION DETAILS
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 Date: 12-1-98 Checked By: GMG

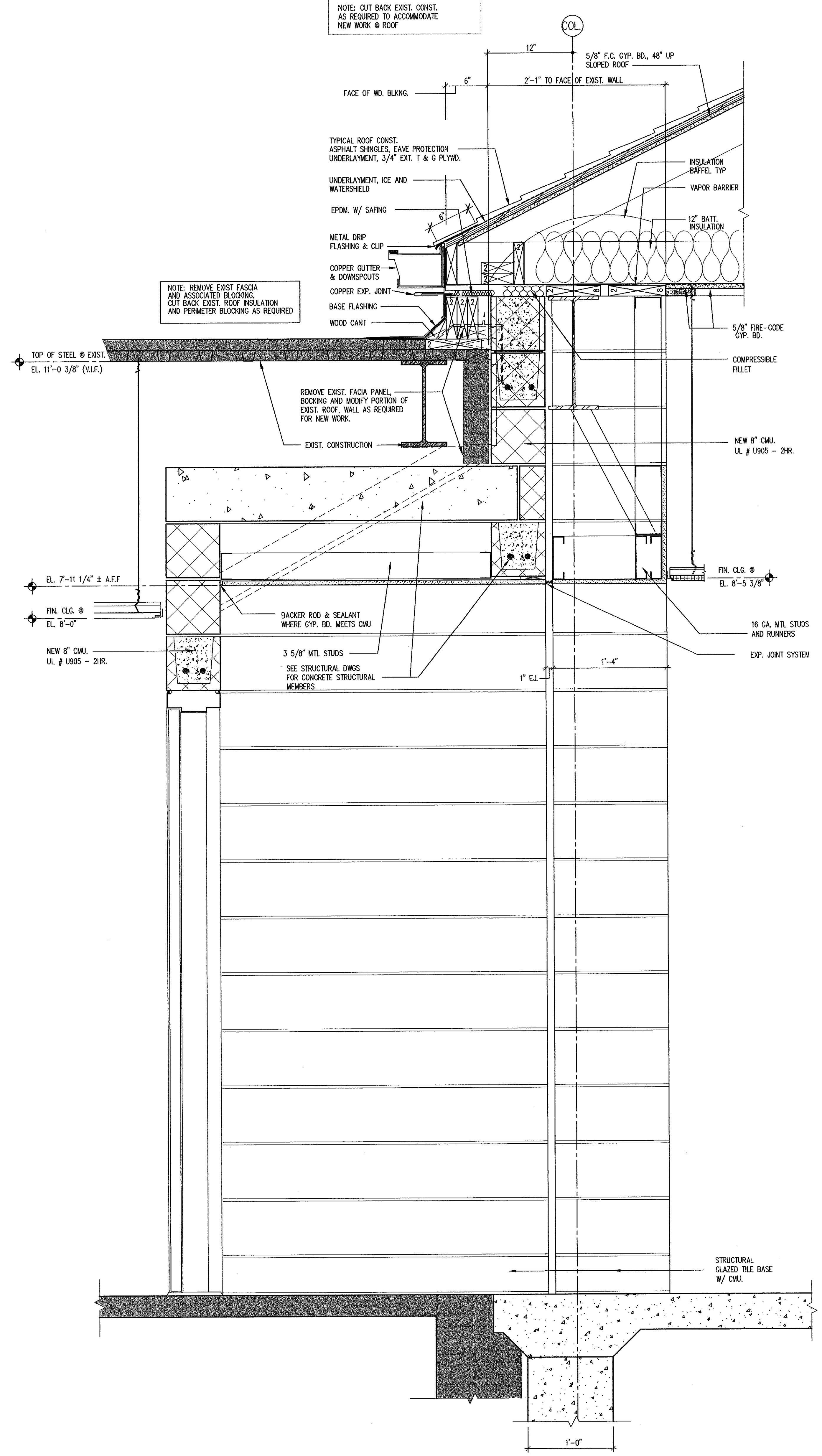
Hebron Elementary School
 Hebron, Connecticut
 Additions and Renovations
 State Project Number #067-029-EA



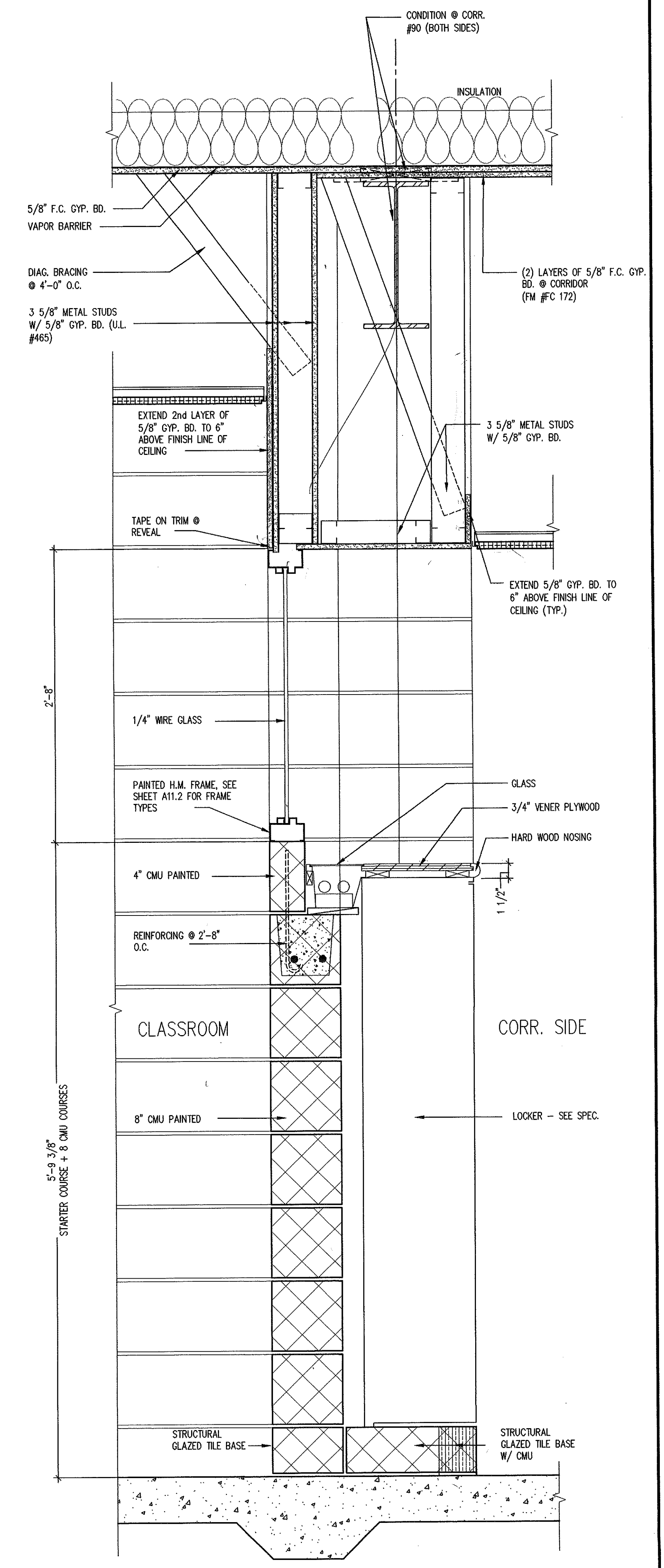
A7.3



1 SECTION DETAIL
A7.4 1 1/2" = 1'-0"



2 SECTION DETAIL
A7.4 1 1/2" = 1'-0"



3 SECTION DETAIL
A7.4 1 1/2" = 1'-0"

Architects
C.J. Lawler Associates
 7 South Main Street, West Hartford, Connecticut 06107
 (860) 233-6526 FAX: (860) 231-0063

GIRARD & CO. ENGINEERS
 Structural Engineers
 40 Wethersfield Avenue, Hartford, Connecticut 06114
 (860) 233-1266 FAX: (860) 548-1463

M.R. ROMING ASSOCIATES
 Landscape Architects-Land Planners
 224 Whiting Lane, West Hartford, Connecticut 06119
 (860) 233-1266 FAX: (860) 523-0191

van ZELM HEYWOOD & SHADFORD INC
 Mechanical and Electrical Engineers
 29 South Main Street, West Hartford, Connecticut 06107
 (860) 521-4329 FAX: (860) 521-6600

FOOD SERVICE DESIGN
 Food Service
 P. O. Box 18191, East Hartford, CT 06118
 (860) 659-7101 FAX: (860) 659-8809

ENVIRO SAFE
 Safety and Environmental Health Consultant Services
 7 Rogers Lake Trail, Old Lyme, Connecticut 06371
 (860) 434-8383 FAX: (860) 434-0066

CLARK ENGINEERING
 Engineering Services
 P. O. Box 419, Granby, CT 06035
 (860) 683-4562 FAX: (860) 653-8266

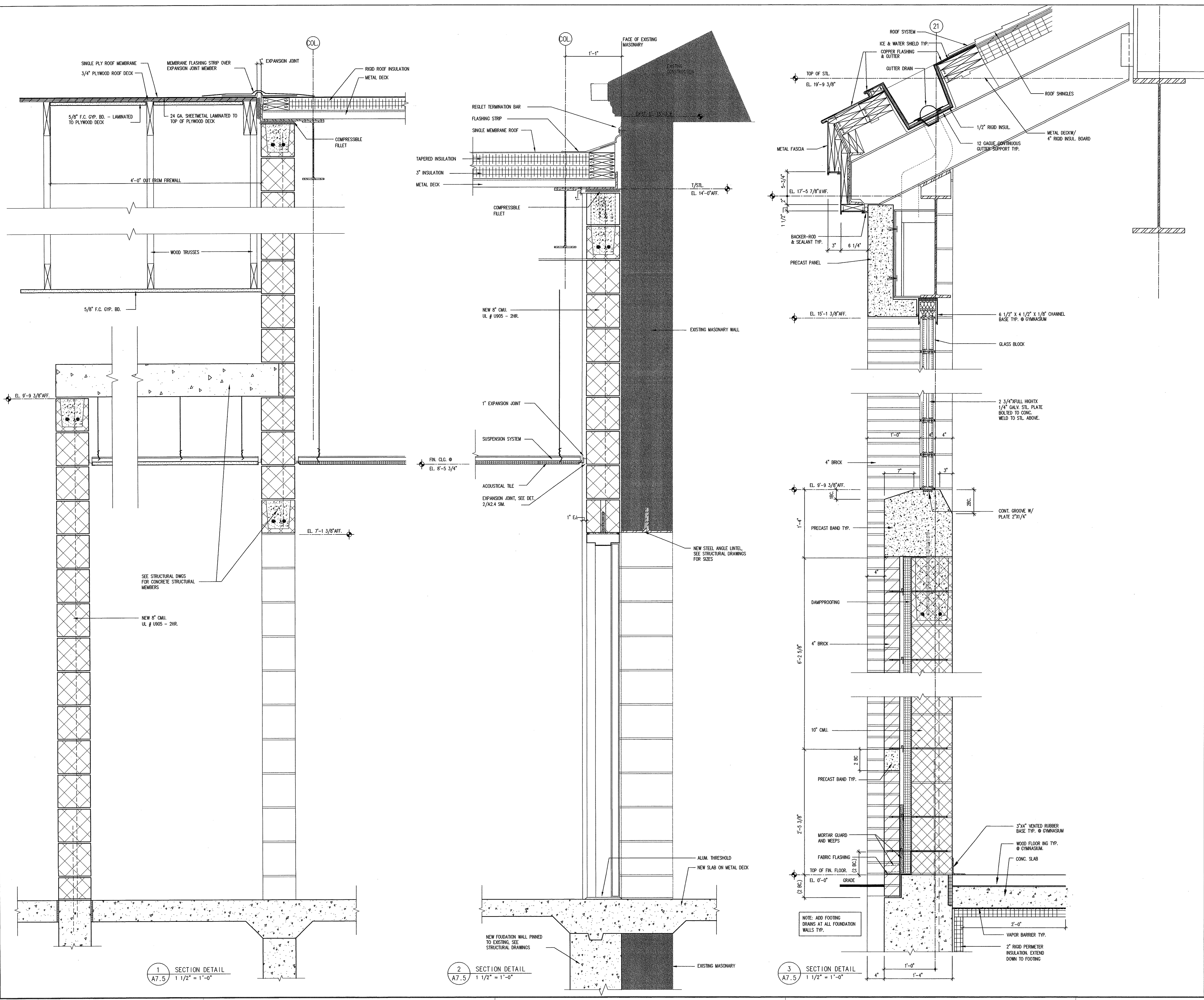
NOTE: SEE STRUCTURAL DWGS. FOR ADDITIONAL LOCATIONS OF BOND BEAM AND REINFORCING.

No.	Description	Date
01	BID ISSUE	4-30-99

SECTION DETAILS
 Scale: 1 1/2" = 1'-0" Drawn By: BT
 Date: 12-1-98 Checked By: GMG

Hebron Elementary School
 Hebron, Connecticut
 Additions and Renovations
 State Project Number #067-029-EA

A7.4



1 SECTION DETAIL
A7.5 1 1/2" = 1'-0"

2 SECTION DETAIL
A7.5 1 1/2" = 1'-0"

3 SECTION DETAIL
A7.5 1 1/2" = 1'-0"

Architects
C.J. Lawler Associates
 7 South Main Street, West Hartford, Connecticut 06107
 (860) 233-8226 FAX: (860) 231-0063

GIRARD & CO. ENGINEERS
 Structural Engineers
 40 Weatherfield Avenue, Hartford, Connecticut 06114
 (860) 233-1266 FAX: (860) 548-1463

M.R. ROMING ASSOCIATES
 Landscape Architects-Land Planners
 224 Whitting Lane, West Hartford, Connecticut 06119
 (860) 233-1266 FAX: (860) 623-0191

van ZELM HEYWOOD & SHADFORD INC
 Mechanical and Electrical Engineers
 29 South Main Street, West Hartford, Connecticut 06107
 (860) 621-4329 FAX: (860) 621-6620

FOOD SERVICE DESIGN
 Food Service
 P. O. Box 18191, East Hartford, CT 06118
 (860) 658-7101 FAX: (860) 658-8897

ENVIRO SAFE
 Safety and Environmental Health Consultant Services
 7 Rogers Lake Trail, Old Lyme, Connecticut 06371
 (860) 434-8383 FAX: (860) 434-0556

CLARK ENGINEERING
 Engineering Services
 P. O. Box 419, Granby, CT 06035
 (860) 653-4322 FAX: (860) 653-4256

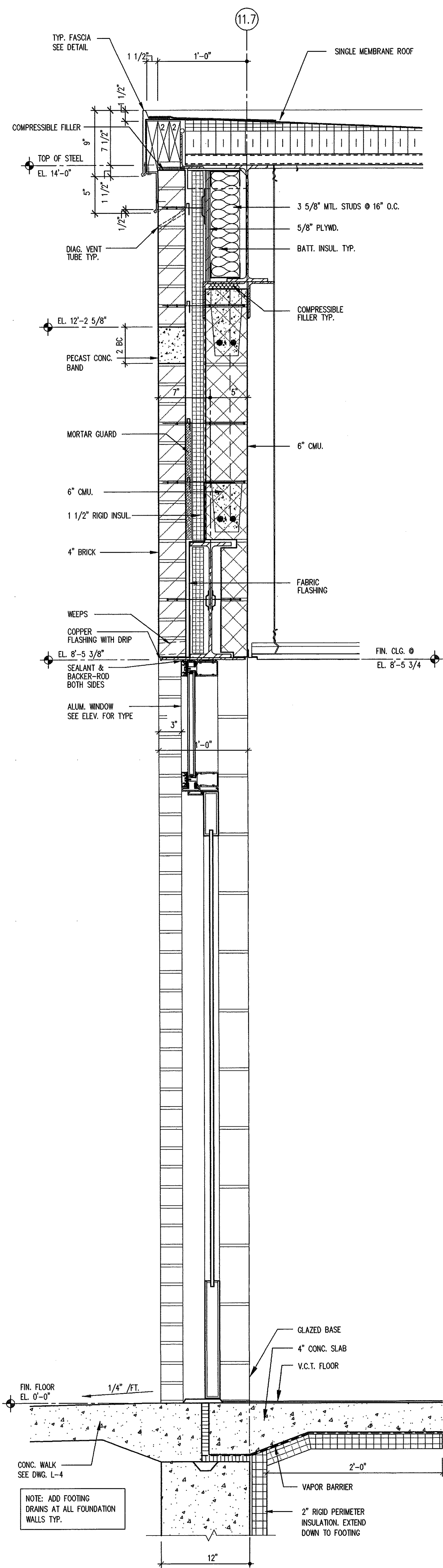
NOTE: SEE STRUCTURAL DWGS. FOR ADDITIONAL LOCATIONS OF BOND BEAM AND REINFORCING.

No.	Description	Date
01	BID ISSUE	4-30-99

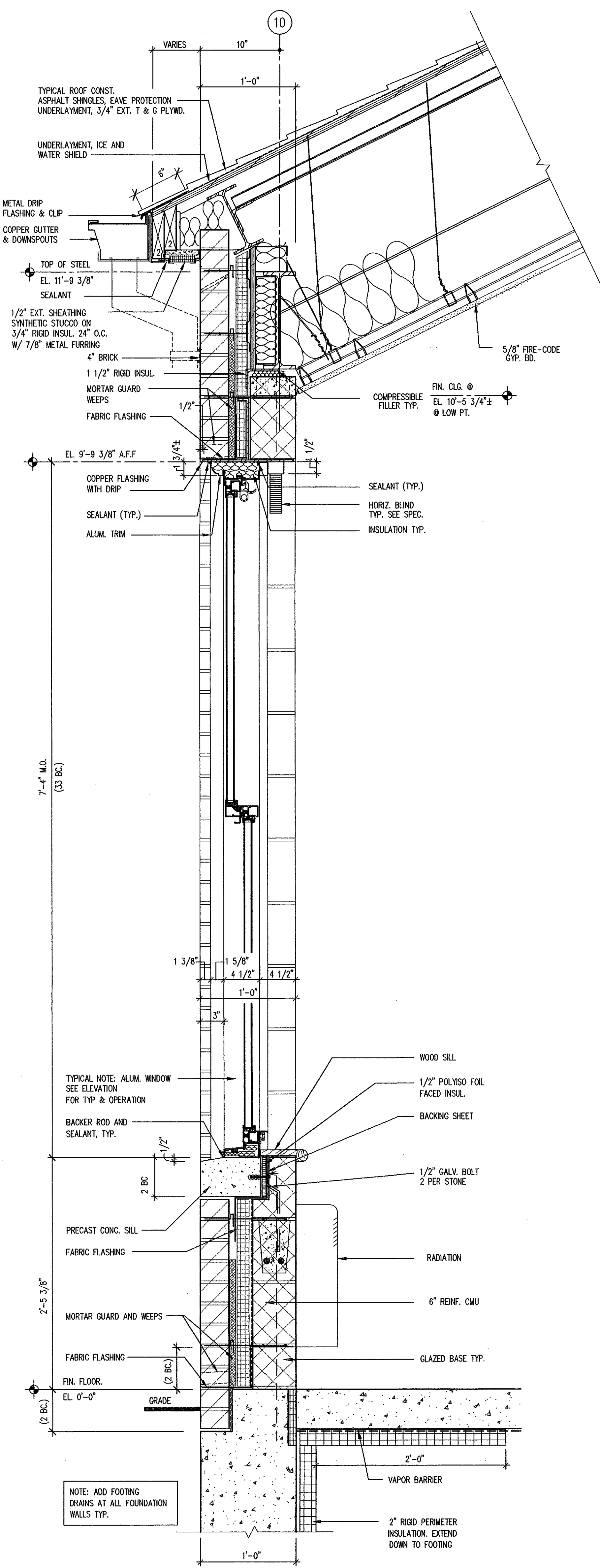
SECTION DETAILS
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 Date: 12-1-98 Checked By: GMG

Hebron Elementary School
 Hebron, Connecticut
 Additions and Renovations
 State Project Number #067-029-EA

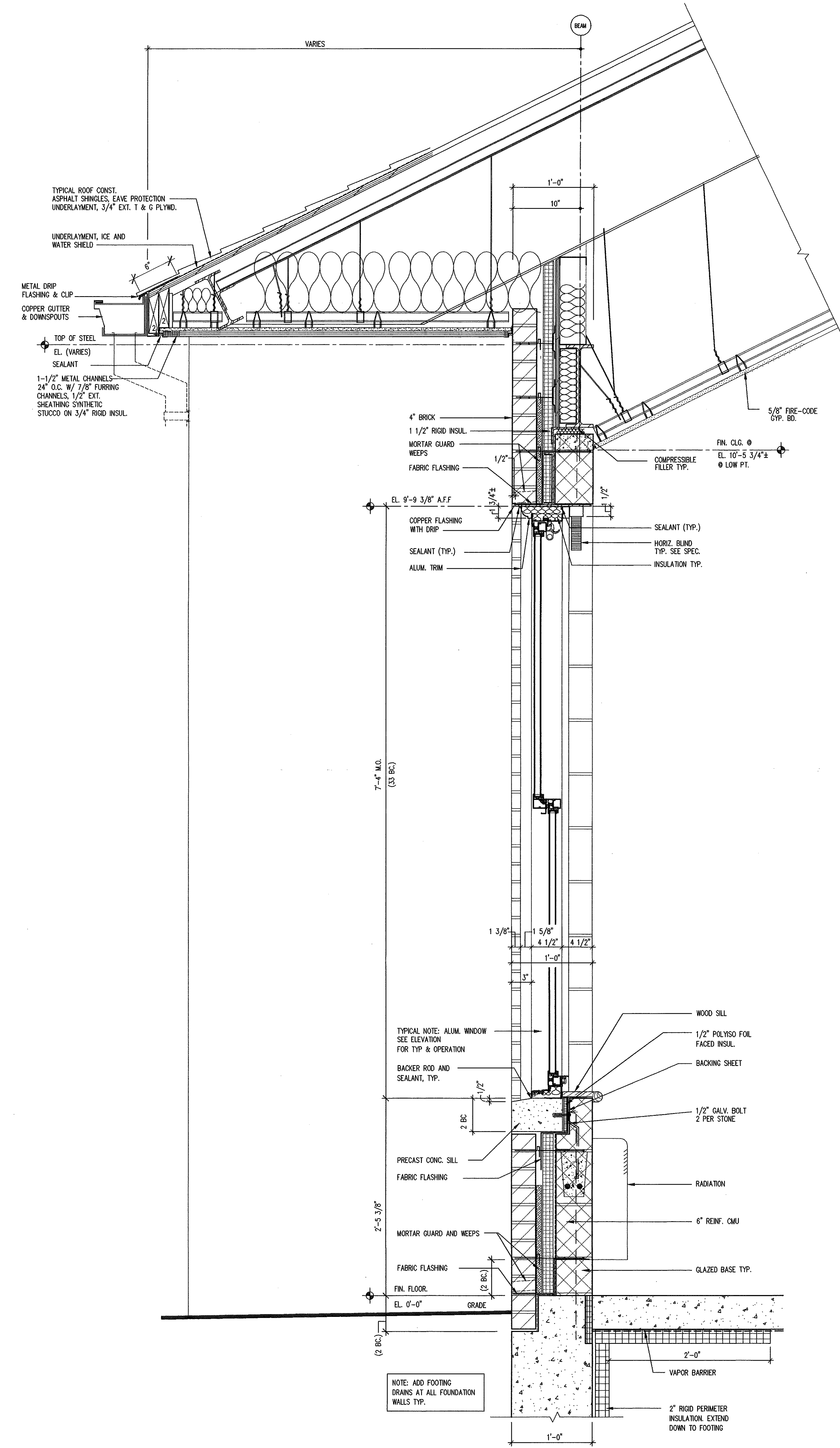
Professional seal and signature area with the number **A7.5**.



1 SECTION DETAIL
A7.6 1 1/2\"/>



2 SECTION DETAIL
A7.6 1 1/2\"/>



2A SECTION DETAIL
A7.6 1 1/2\"/>

Architects
C.J. Lawler Associates
 7 South Main Street, West Hartford, Connecticut 06117
 (860) 233-8252 FAX: (860) 231-9033

GIRARD & CO. ENGINEERS
 Structural Engineers
 40 Wetherfield Avenue, Hartford, Connecticut 06114
 (860) 524-6196 FAX: (860) 548-1463

M.R. ROMING ASSOCIATES
 Landscape Architects-Land Planners
 224 Whiting Lane, West Hartford, Connecticut 06110
 (860) 233-1266

van ZELM HEYWOOD & SHADFORD INC
 Mechanical and Electrical Engineers
 29 South Main Street, West Hartford, Connecticut 06107
 (860) 621-4329 FAX: (860) 621-6620

FOOD SERVICE DESIGN
 Food Service
 P. O. Box 18191, East Hartford, CT 06118
 (860) 629-7101 FAX: (860) 629-8859

ENVIRO SAFE
 Safety and Environmental Health Consultant Services
 7 Rogers Lake Trail, Old Lyme, Connecticut 06371
 (860) 434-8883

CLARK ENGINEERING
 Engineering Services
 P. O. Box 419, Granby, CT 06035
 (860) 653-4382 FAX: (860) 653-8256

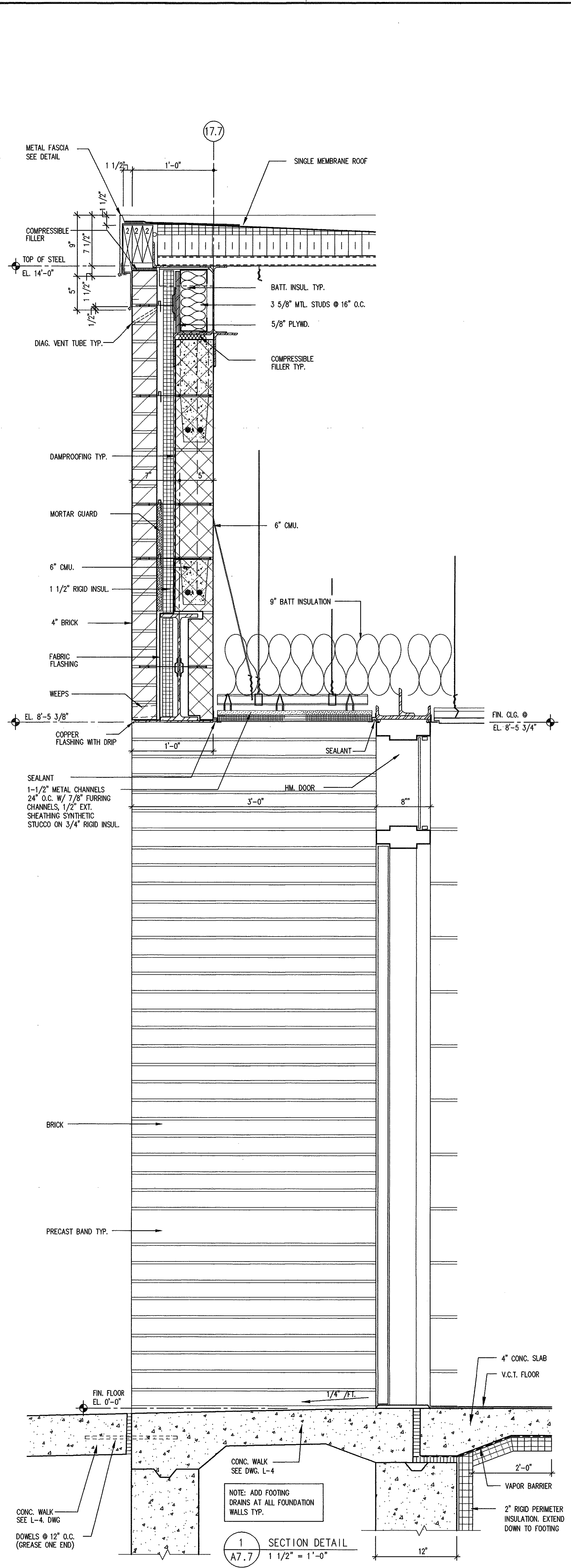
NOTE: SEE STRUCTURAL DWGS. FOR ADDITIONAL LOCATIONS OF BOND BEAM AND REINFORCING.

No.	Description	Date
01	BID ISSUE	4-30-99

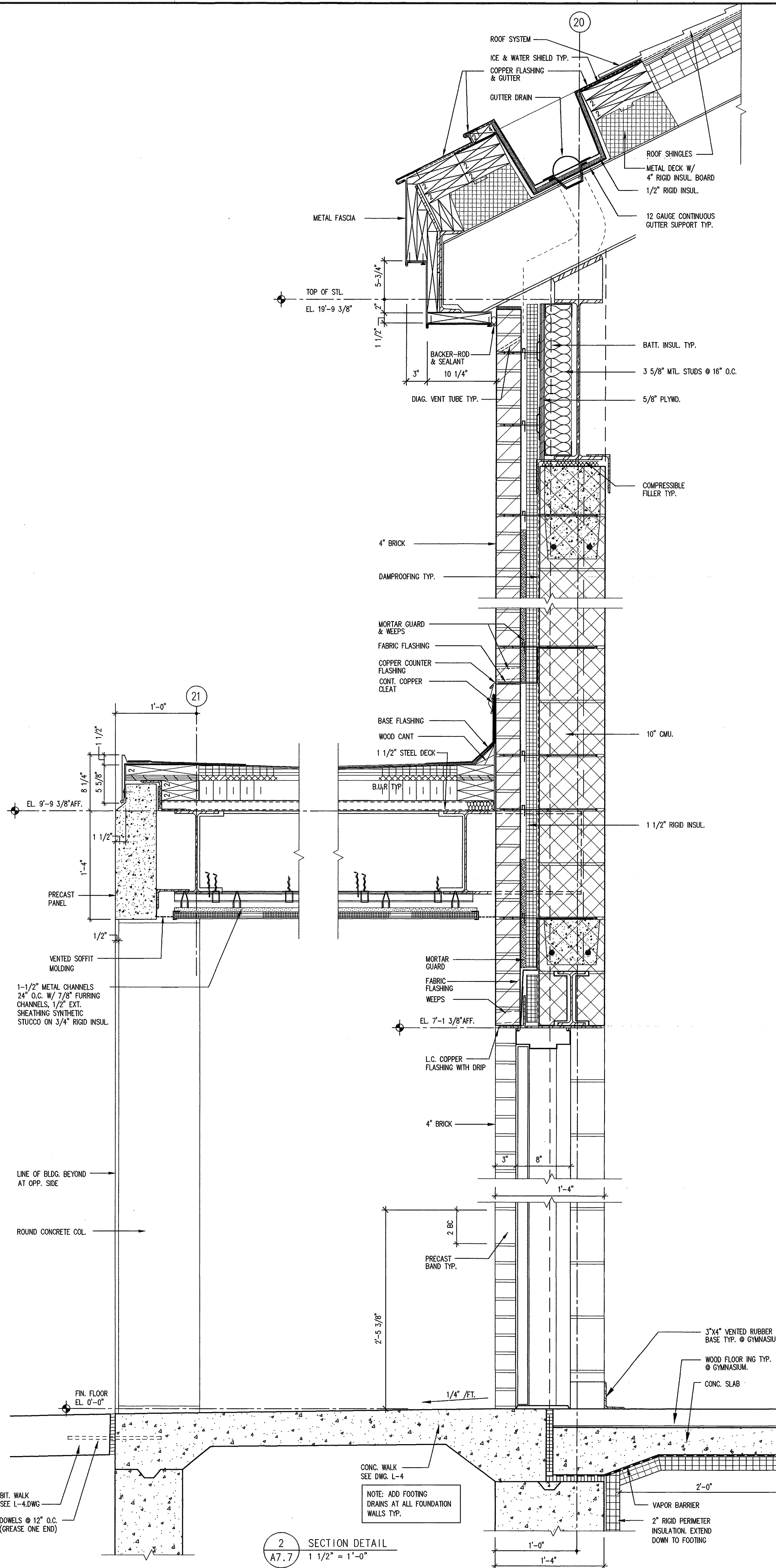
SECTION DETAILS
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 Date: 12-1-98 Checked By: GMG

Hebron Elementary School
 Hebron, Connecticut
 Additions and Renovations
 State Project Number #067-029-EA

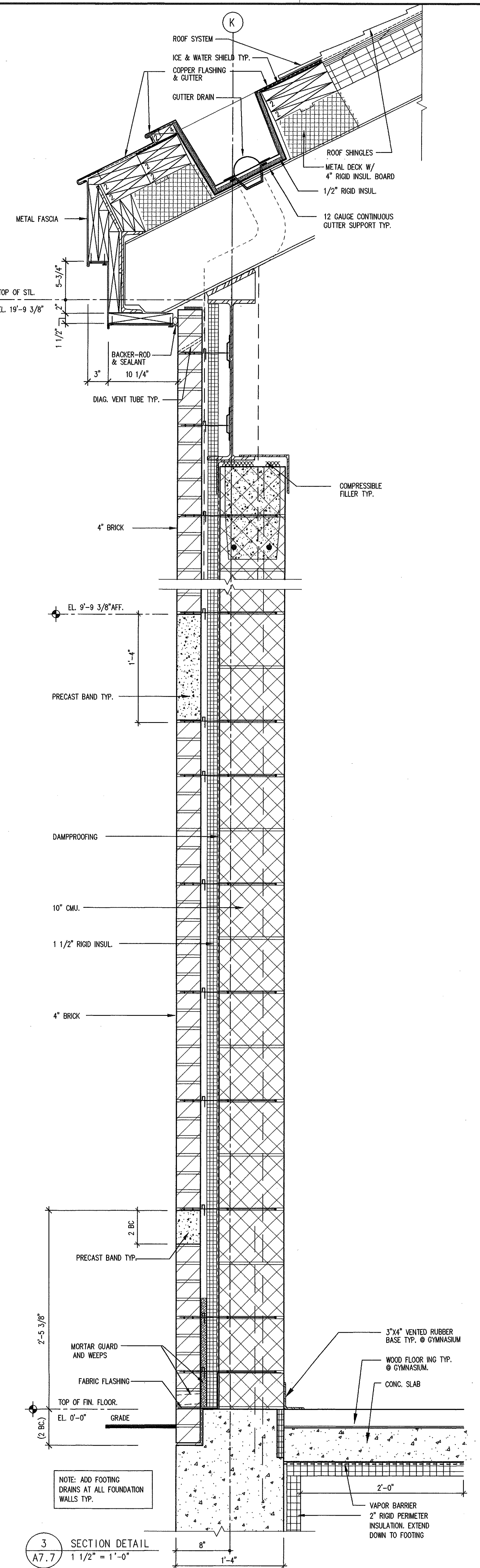
Professional Engineer Seal for C.J. Lawler, State of Connecticut, License No. 10000. **A7.6**



1 SECTION DETAIL
1 1/2" = 1'-0"



2 SECTION DETAIL
1 1/2" = 1'-0"



3 SECTION DETAIL
1 1/2" = 1'-0"

Architects
C.J. Lawler Associates
7 South Main Street, West Hartford, Connecticut 06107
(860) 235-8559

GIRARD & CO. ENGINEERS
Structural Engineers
40 Wetherfield Avenue, Hartford, Connecticut 06114
(860) 524-4194

M.R. ROMING ASSOCIATES
Landscape Architects-Land Planners
224 Whiting Lane, West Hartford, Connecticut 06119
(860) 235-1265

van ZELM HEYWOOD & SHADFORD INC
Mechanical and Electrical Engineers
29 South Main Street, West Hartford, Connecticut 06107
(860) 521-4529

FOOD SERVICE DESIGN
Food Service
P. O. Box 18191, East Hartford, CT 06118
(860) 628-7101

ENVIRO SAFE
Safety and Environmental Health Consultant Services
7 Rogers Lake Trail, Old Lyme, Connecticut 06371
(860) 434-4383

CLARK ENGINEERING
Engineering Services
P. O. Box 419, Granby, CT 06035
(860) 653-4382

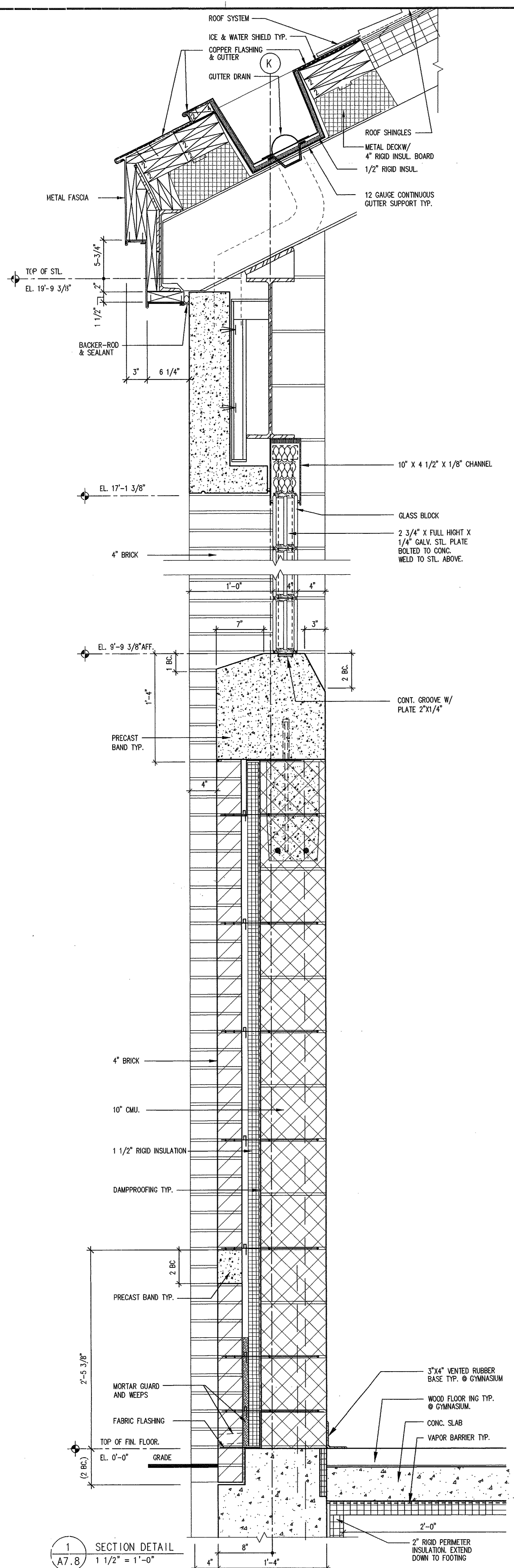
NOTE: SEE STRUCTURAL DWGS. FOR ADDITIONAL LOCATIONS OF BOND BEAM AND REINFORCING.

No.	Description	Date
01	BID ISSUE	4-30-99
Revisions		

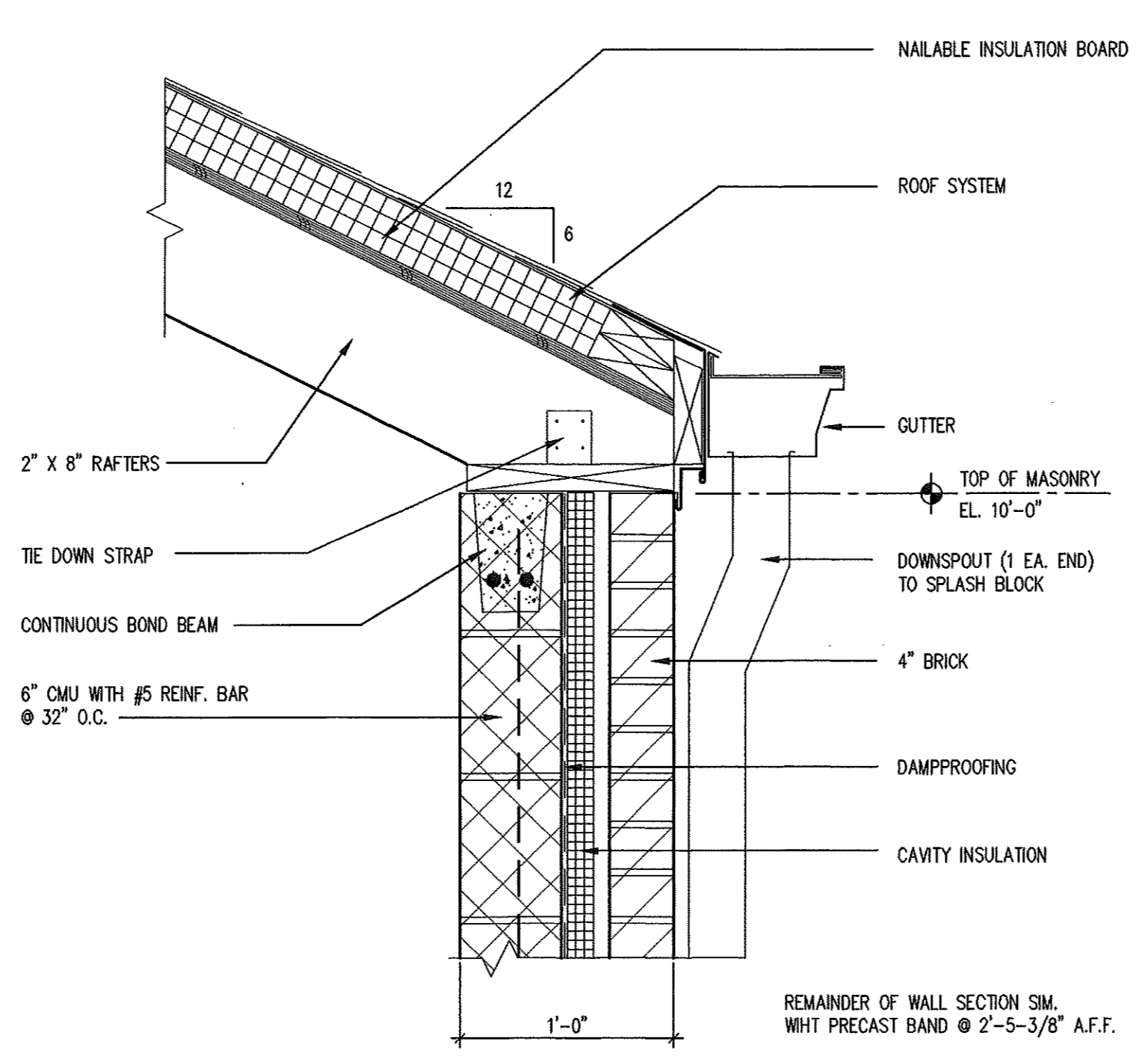
SECTION DETAILS
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Hebron Elementary School
Hebron, Connecticut
Additions and Renovations
State Project Number #067-029-EA

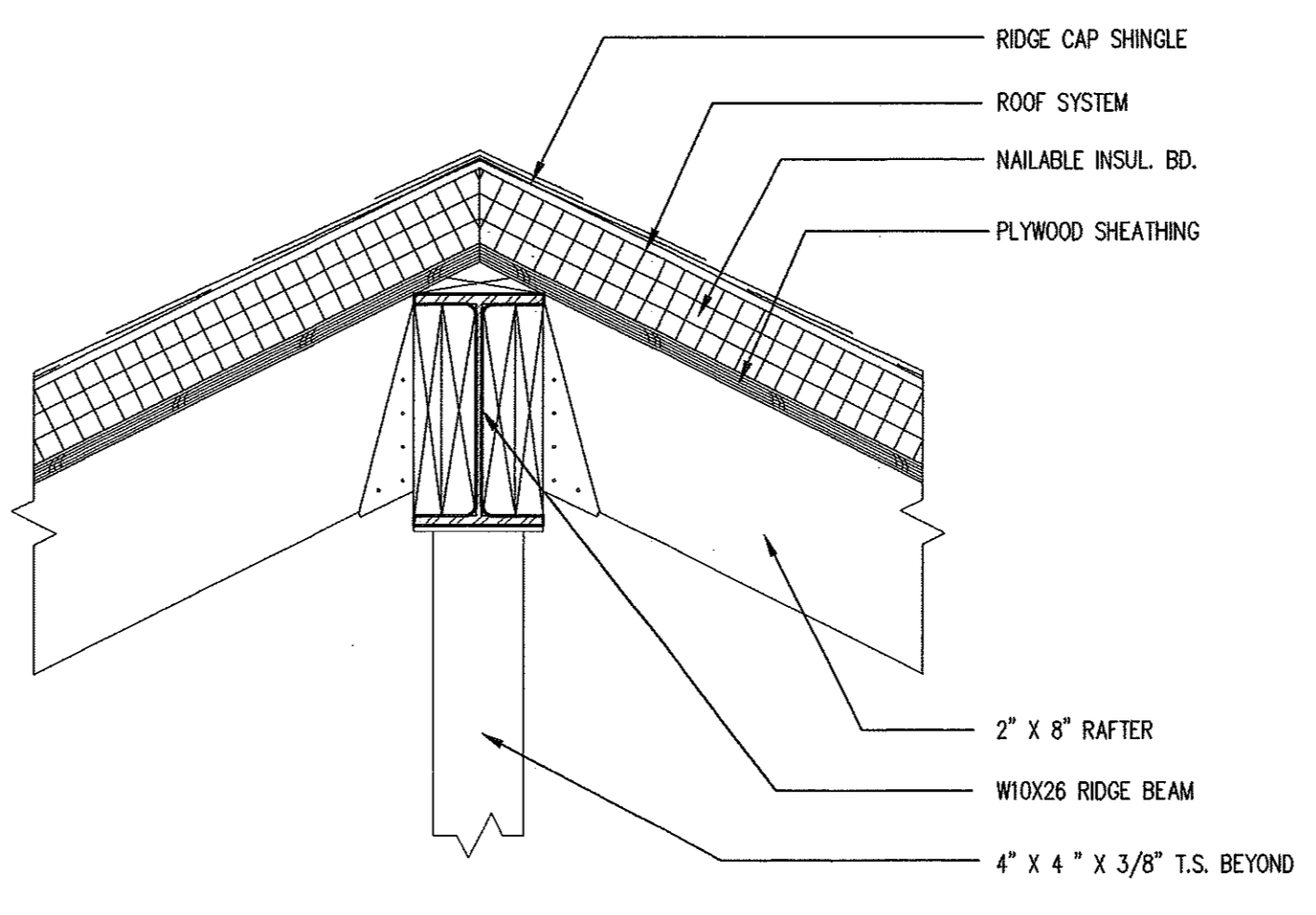
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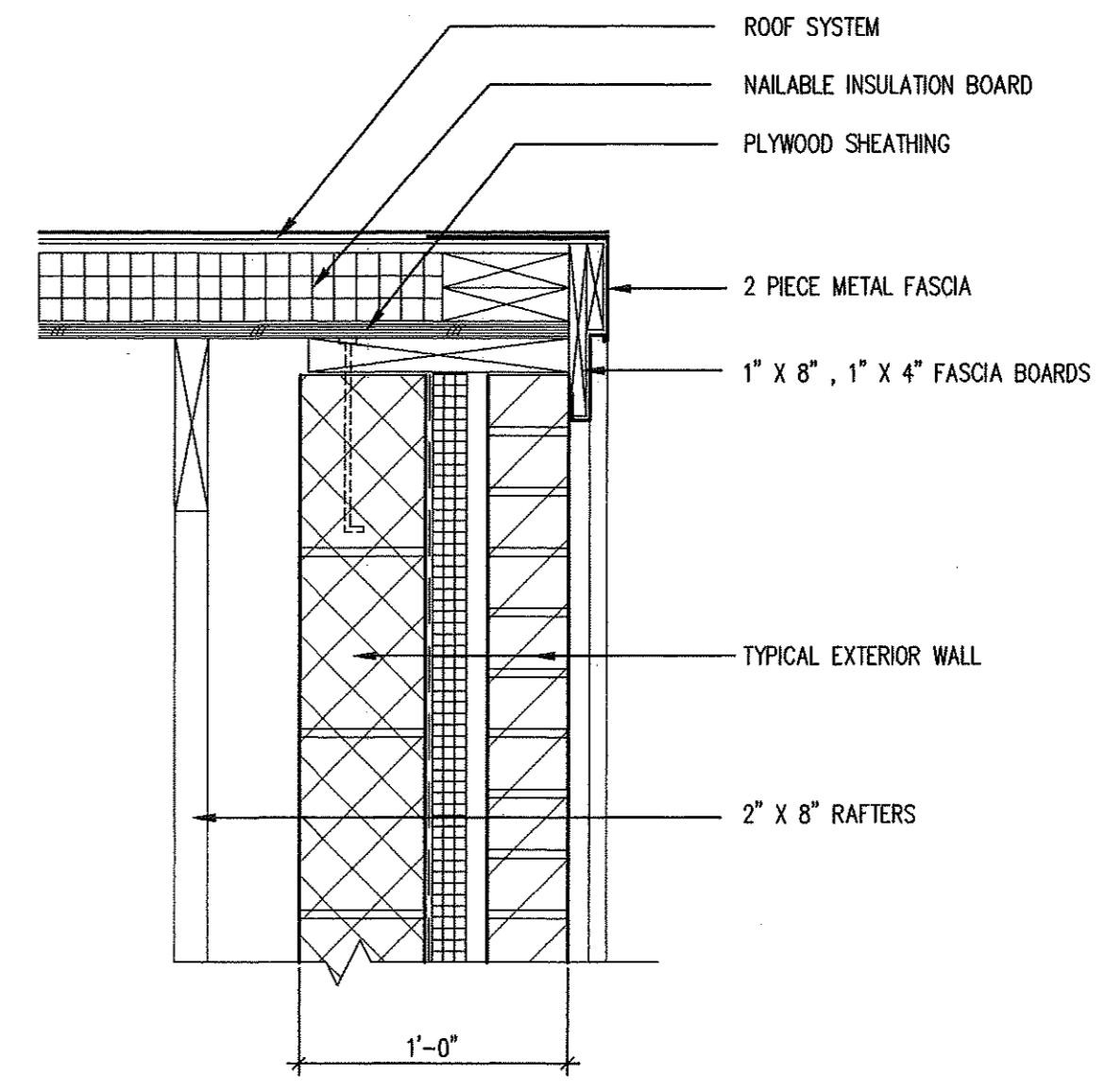
1 SECTION DETAIL
1 1/2" = 1'-0"



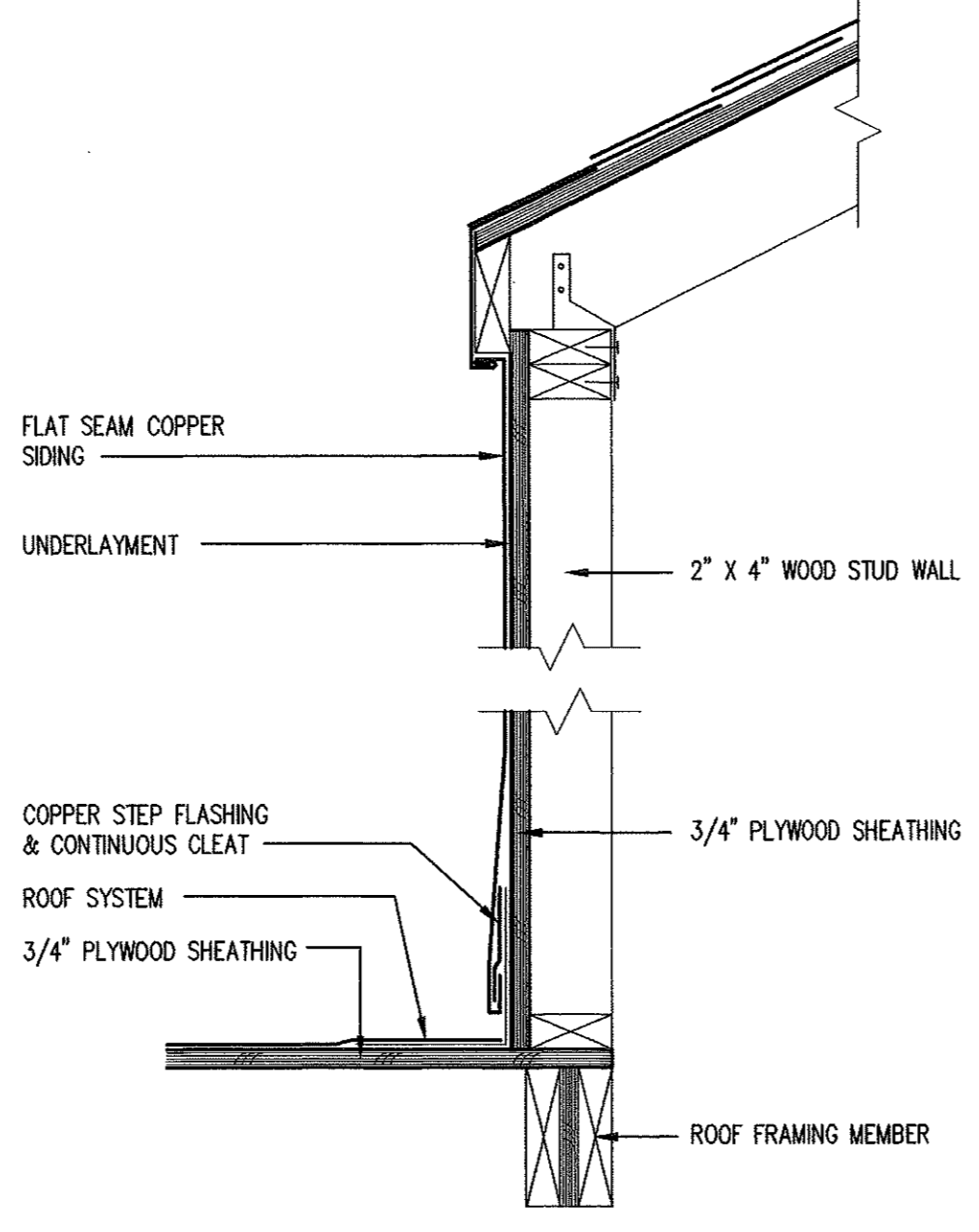
2 PUMPHOUSE - TYPICAL WALL SECTION
1 1/2" = 1'-0"



3 PUMPHOUSE - ROOF DETAIL
1 1/2" = 1'-0"



4 PUMPHOUSE - GABLE WALL DETAIL
1 1/2" = 1'-0"



5 DORMER EAVE DETAIL
1 1/2" = 1'-0"

REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.

Architects
C.J. Lawler Associates
 7 South Main Street, West Hartford, Connecticut 06107
 (860) 233-8525 FAX: (860) 231-9033

GIRARD & CO. ENGINEERS
 Structural Engineers
 40 Wetherfield Avenue, Hartford, Connecticut 06114
 (860) 233-1255 FAX: (860) 623-0191

M.R. ROMING ASSOCIATES
 Landscape Architects-Land Planners
 224 Whitting Lane, West Hartford, Connecticut 06110
 (860) 233-1255 FAX: (860) 623-0191

van ZELM HEYWOOD & SHADFORD INC
 Mechanical and Electrical Engineers
 29 South Main Street, West Hartford, Connecticut 06107
 (860) 621-4329 FAX: (860) 621-6620

FOOD SERVICE DESIGN
 Food Service
 P. O. Box 18191, East Hartford, CT 06118
 (860) 628-7101 FAX: (860) 628-8839

ENVIRO SAFE
 Safety and Environmental Health Consultant Services
 7 Rogers Lake Trail, Old Lyme, Connecticut 06371
 (860) 434-8383 FAX: (860) 434-0386

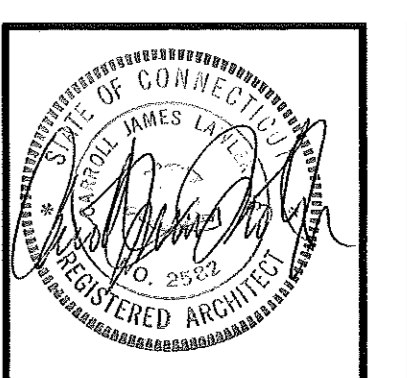
CLARK ENGINEERING
 Engineering Services
 P. O. Box 419, Granby, CT 06035
 (860) 653-4352 FAX: (860) 653-8256

NOTE: SEE STRUCTURAL DWGS. FOR ADDITIONAL LOCATIONS OF BOND BEAM AND REINFORCING.

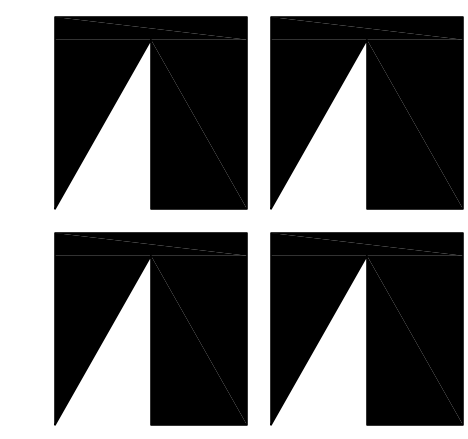
Revisions	BID ISSUE	4-30-99
No.	Description	Date
01		

SECTION DETAILS
 Scale: 1 1/2"=1'-0" Drawn By: BT
 Date: 12-1-98 Checked By: GMG

Hebron Elementary School
 Hebron, Connecticut
 Additions and Renovations
 State Project Number #067-029-EA



A7.8



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7 South Main Street, West Hartford, Connecticut 06107
(860) 233-8526 FAX: (860) 231-9063

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Structural Engineers
40 Wethersfield Avenue, Hartford, Connecticut 06114
(860) 524-5196 FAX: (860) 548-1463

M.R. ROMING ASSOCIATES
Landscape Architects-Land Planners
224 Whiting Lane, West Hartford, Connecticut 06119
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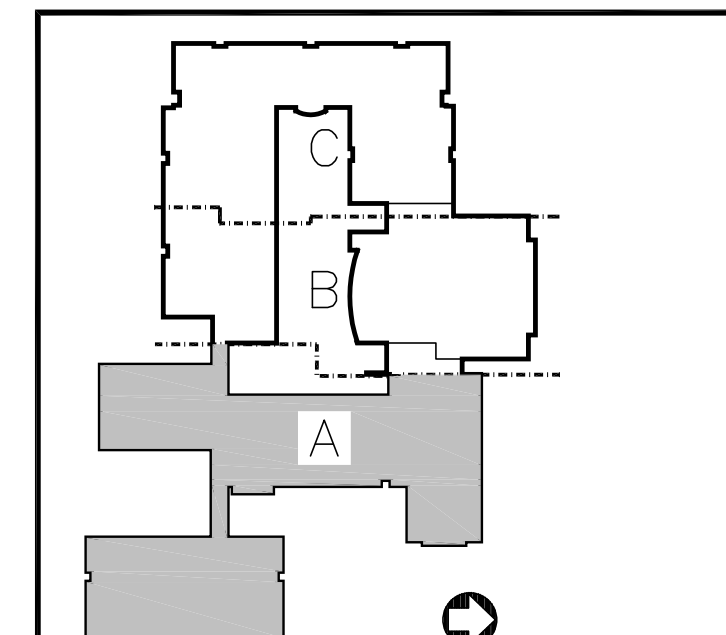
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(860) 521-4329 FAX: (860) 521-5620

FOOD SERVICE DESIGN
Food Service
P.O. Box 18191, East Hartford, CT 06118
(860) 528-7101 FAX: (860) 528-8939

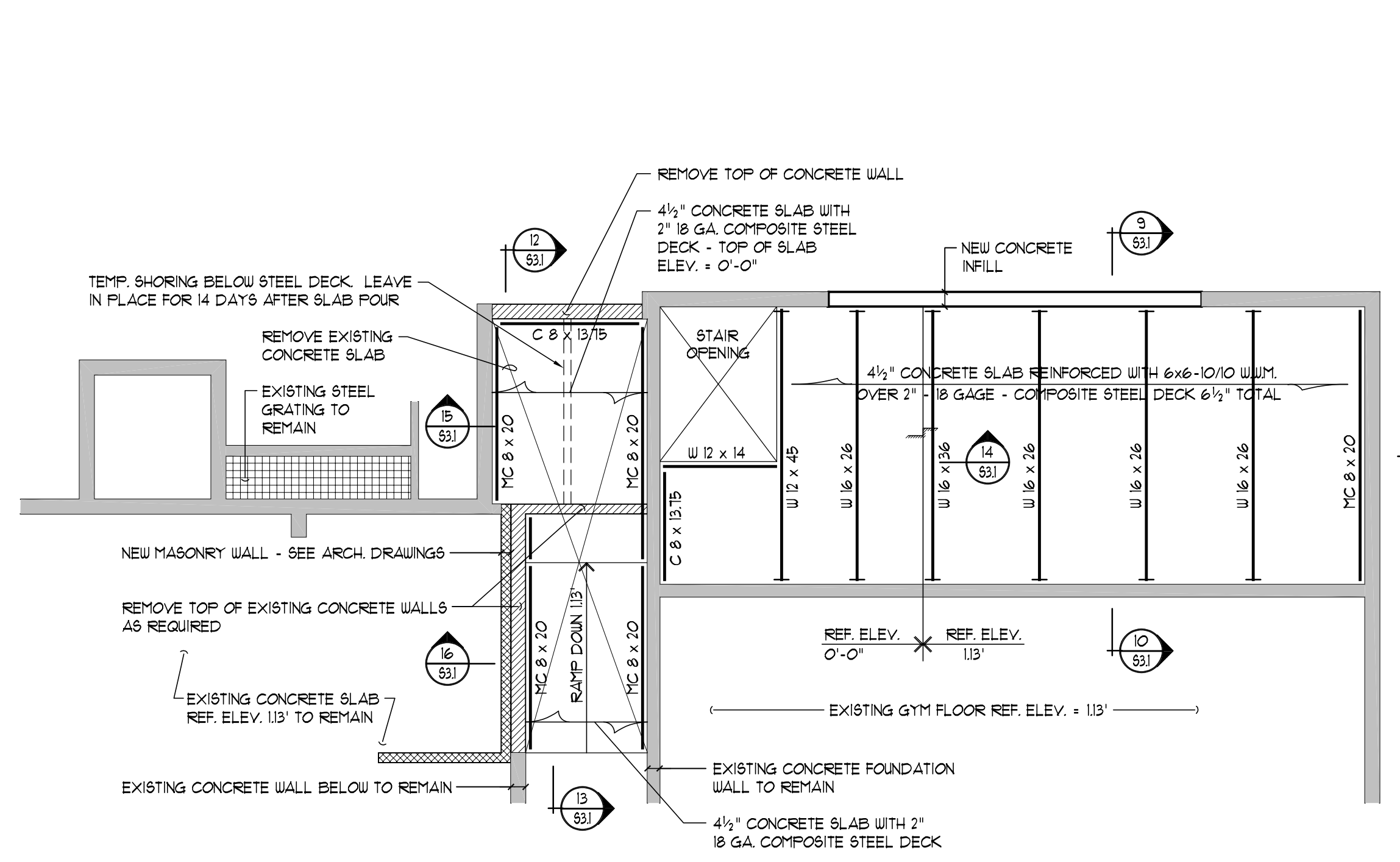
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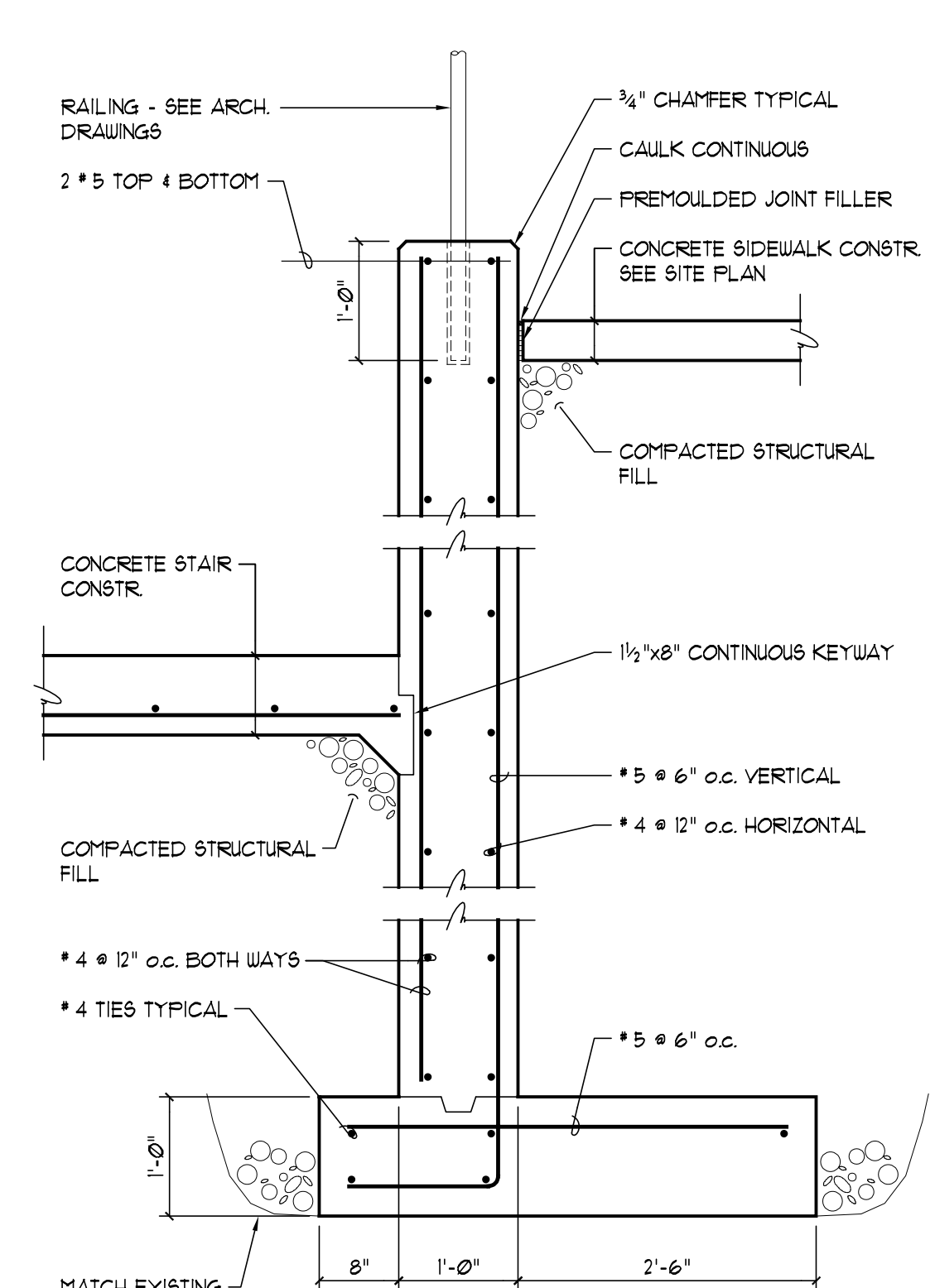
MEGSON & HEAGLE
Civil Engineers Land Surveyors
81 Rankin Road, Glastonbury, CT 06033
(860) 659-0587 FAX: (860) 657-4429



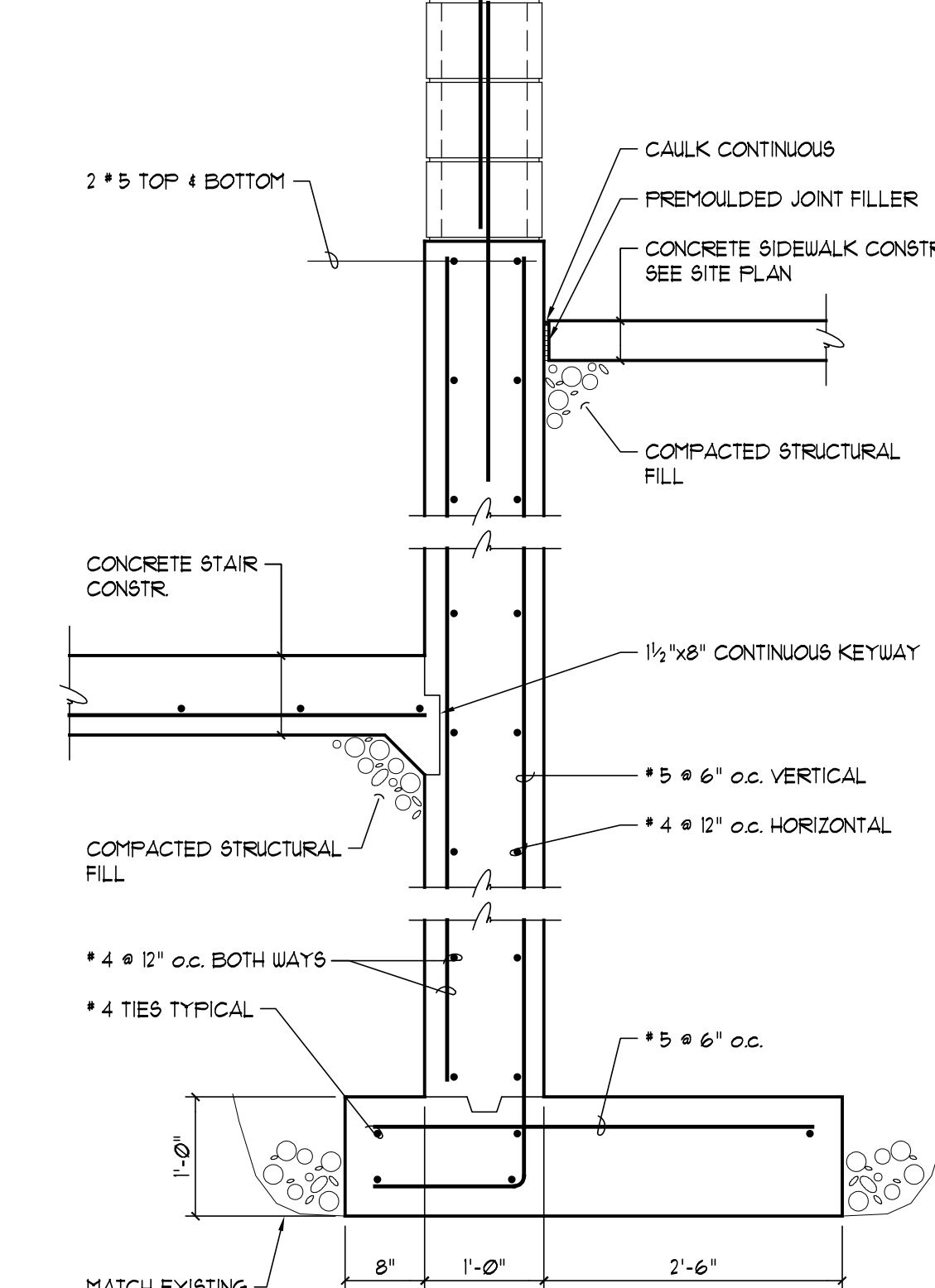
KEYPLAN - NOT TO SCALE



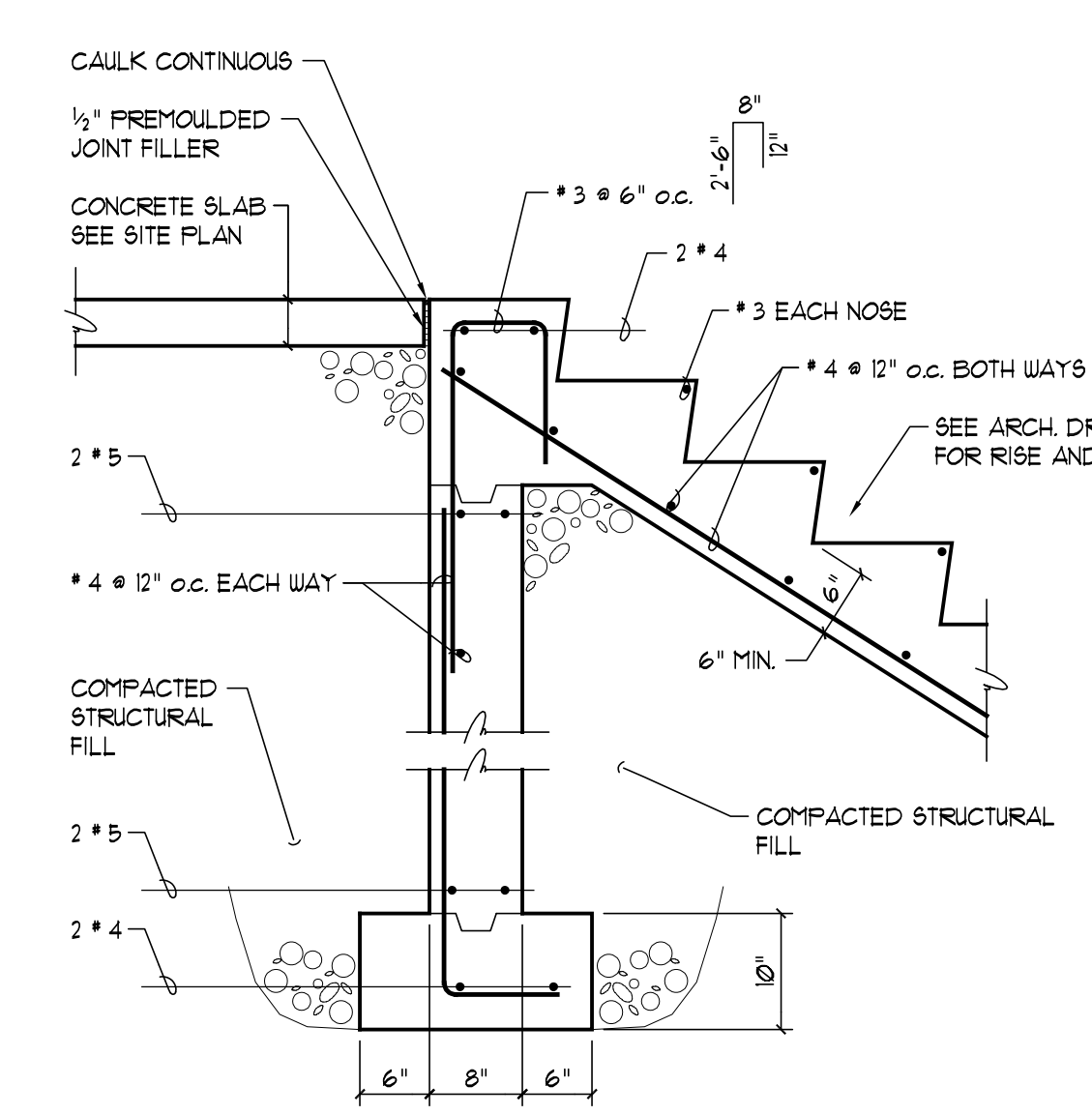
PARTIAL FRAMING PLAN - INFILL AT EXISTING STAGE
1/8" = 1'-0"



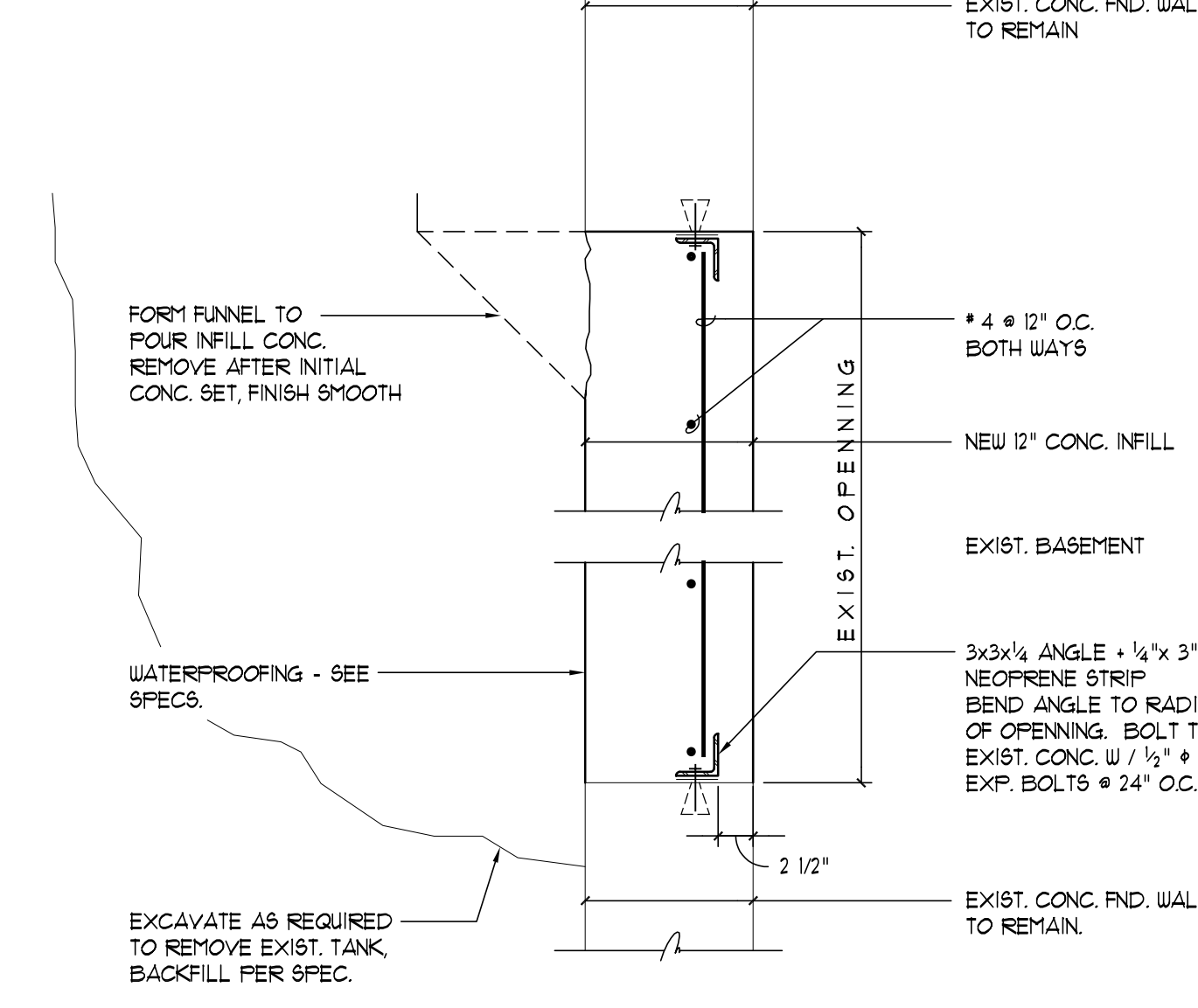
SECTION 1
3/4" = 1'-0"



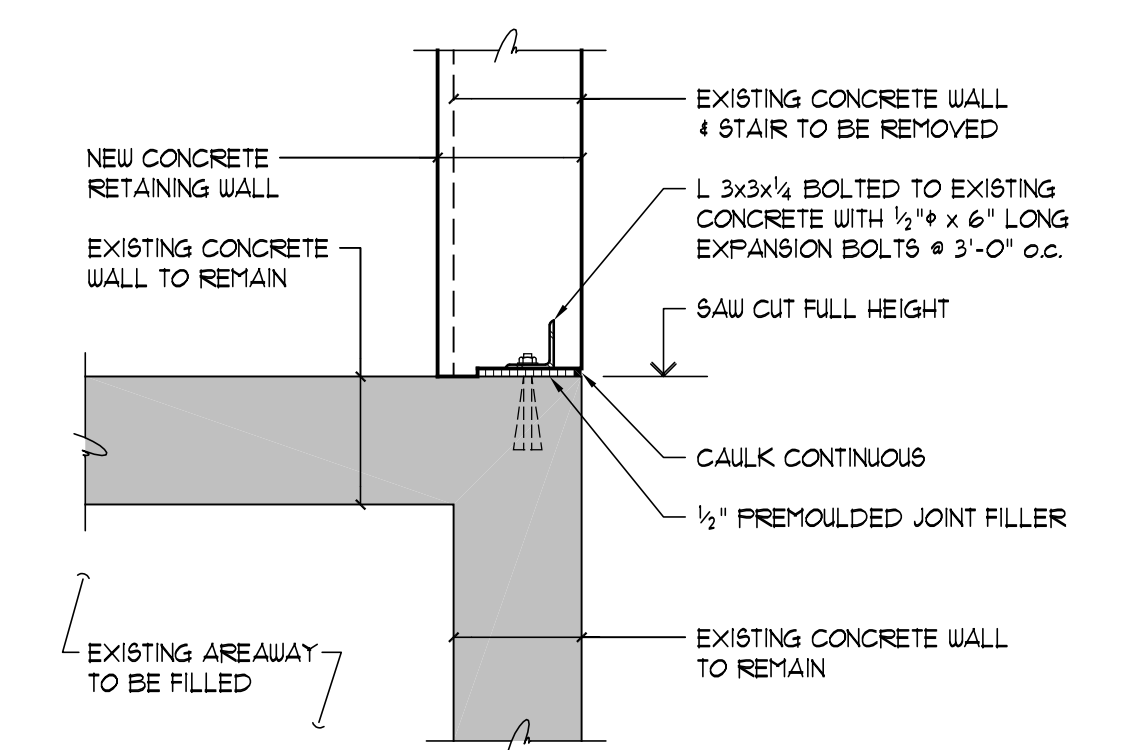
SECTION 2
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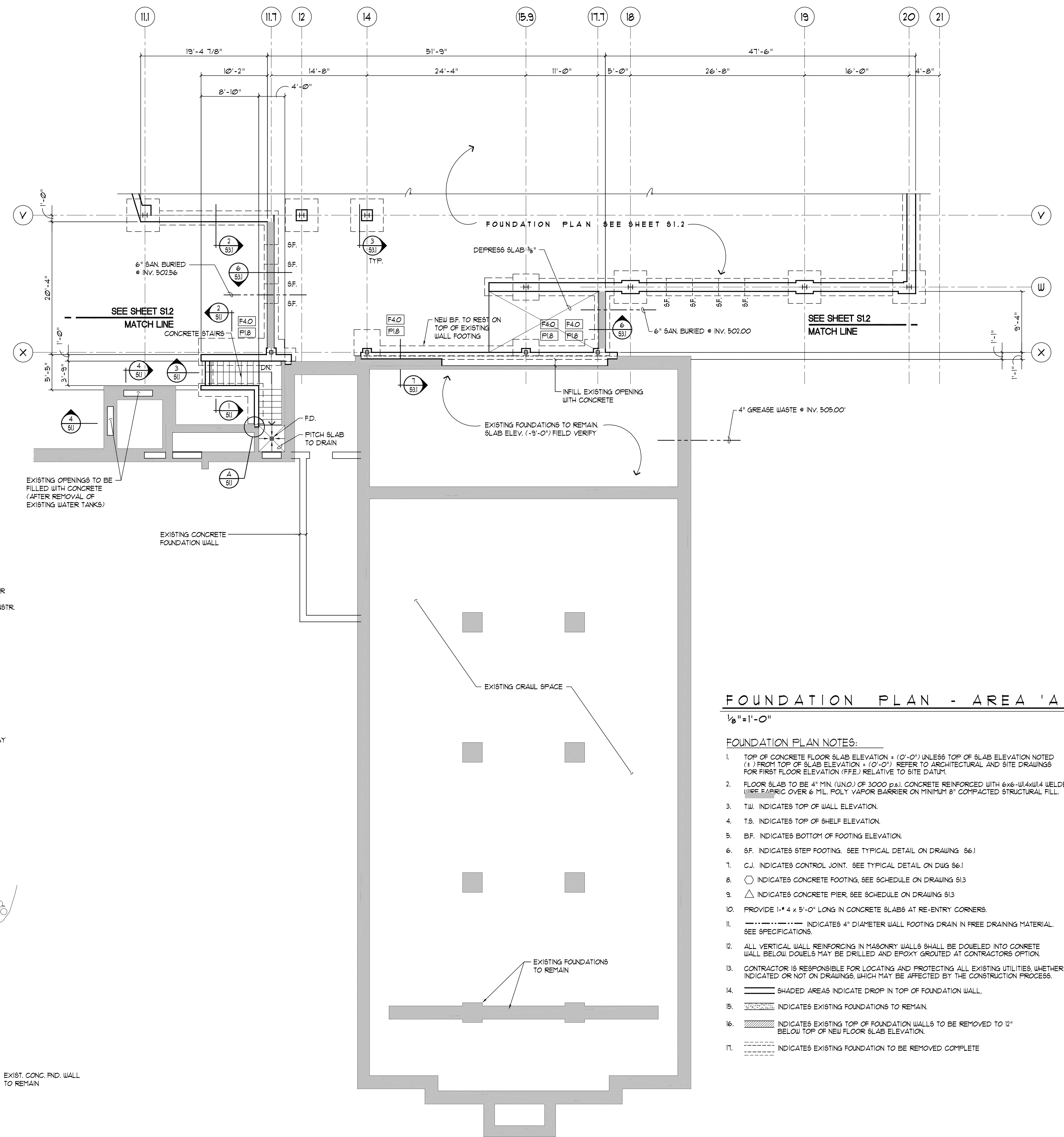
SECTION 3
3/4" = 1'-0"



SECTION 4
1" = 1'-0"



DETAIL A
1" = 1'-0"



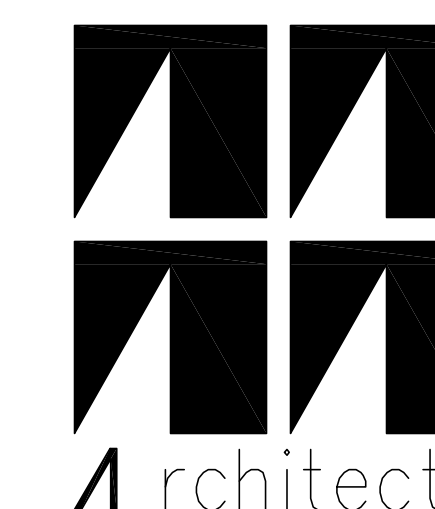
FOUNDATION PLAN - AREA 'A'
1/8" = 1'-0"

- FOUNDATION PLAN NOTES:
- TOP OF CONCRETE FLOOR SLAB ELEVATION + (0'-0") UNLESS TOP OF SLAB ELEVATION NOTED (+) FROM TOP OF SLAB ELEVATION + (0'-0") REFER TO ARCHITECTURAL AND SITE DRAWINGS FOR FIRST FLOOR ELEVATION (FFE) RELATIVE TO SITE DATUM.
 - FLOOR SLAB TO BE 4" MIN. (UNO) OR 3000 P.S.I. CONCRETE REINFORCED WITH 6x6-W4@14" WELDED WIRE FABRIC OVER 6 MIL. POLY. VAPOR BARRIER ON MINIMUM 8" COMPACTED STRUCTURAL FILL.
 - T.W. INDICATES TOP OF WALL ELEVATION.
 - T.S. INDICATES TOP OF SHELF ELEVATION.
 - B.F. INDICATES BOTTOM OF FOOTING ELEVATION.
 - S.F. INDICATES STEP FOOTING. SEE TYPICAL DETAIL ON DRAWING S6.1.
 - C.J. INDICATES CONTROL JOINT. SEE TYPICAL DETAIL ON DUGG S6.1.
 - INDICATES CONCRETE FOOTING. SEE SCHEDULE ON DRAWING S13.
 - △ INDICATES CONCRETE PIER. SEE SCHEDULE ON DRAWING S13.
 - PROVIDE 1" x 4" x 5'-0" LONG IN CONCRETE SLABS AT RE-ENTRY CORNERS.
 - INDICATES 4" DIAMETER WALL FOOTING DRAIN IN FREE DRAINING MATERIAL. SEE SPECIFICATIONS.
 - ALL VERTICAL WALL REINFORCING IN MASONRY WALLS SHALL BE DOUBLED INTO CONCRETE WALL BELOW DOUBLS MAY BE DRILLED AND EPOXY GROUTED AT CONTRACTORS OPTION.
 - CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES, WHETHER INDICATED OR NOT ON DRAWINGS, WHICH MAY BE AFFECTED BY THE CONSTRUCTION PROCESS.
 - SHADED AREAS INDICATE DROP IN TOP OF FOUNDATION WALL.
 - INDICATES EXISTING FOUNDATIONS TO REMAIN.
 - INDICATES EXISTING TOP OF FOUNDATION WALLS TO BE REMOVED TO 12" BELOW TOP OF NEW FLOOR SLAB ELEVATION.
 - INDICATES EXISTING FOUNDATION TO BE REMOVED COMPLETE.

FOUNDATION PLAN AREA "A"

Scale: AS NOTED Drawn By: KA
Date: 12-1-98 Checked By: MG

Hebron Elementary School
Hebron, Connecticut
Additions and Renovations
State Project Number #067-029-EA



C.J. Lawler Associates
7 South Main Street, West Hartford, Connecticut 06107
(860) 233-8526 FAX: (860) 231-9053

GIRARD & CO. ENGINEERS
Structural Engineers
40 Wethersfield Avenue, Hartford, Connecticut 06114
(860) 524-5196 FAX: (860) 548-1463

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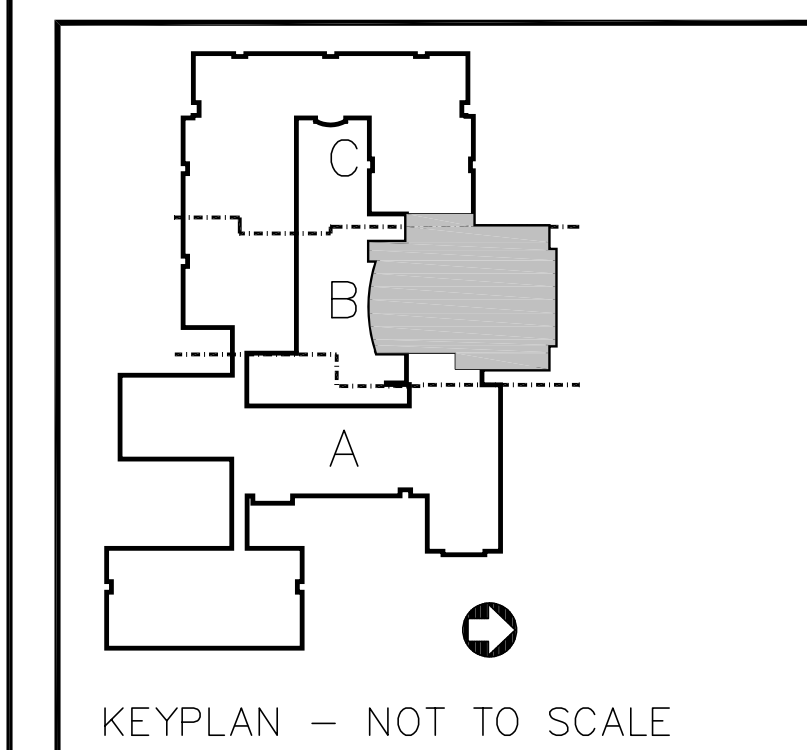
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Food Service
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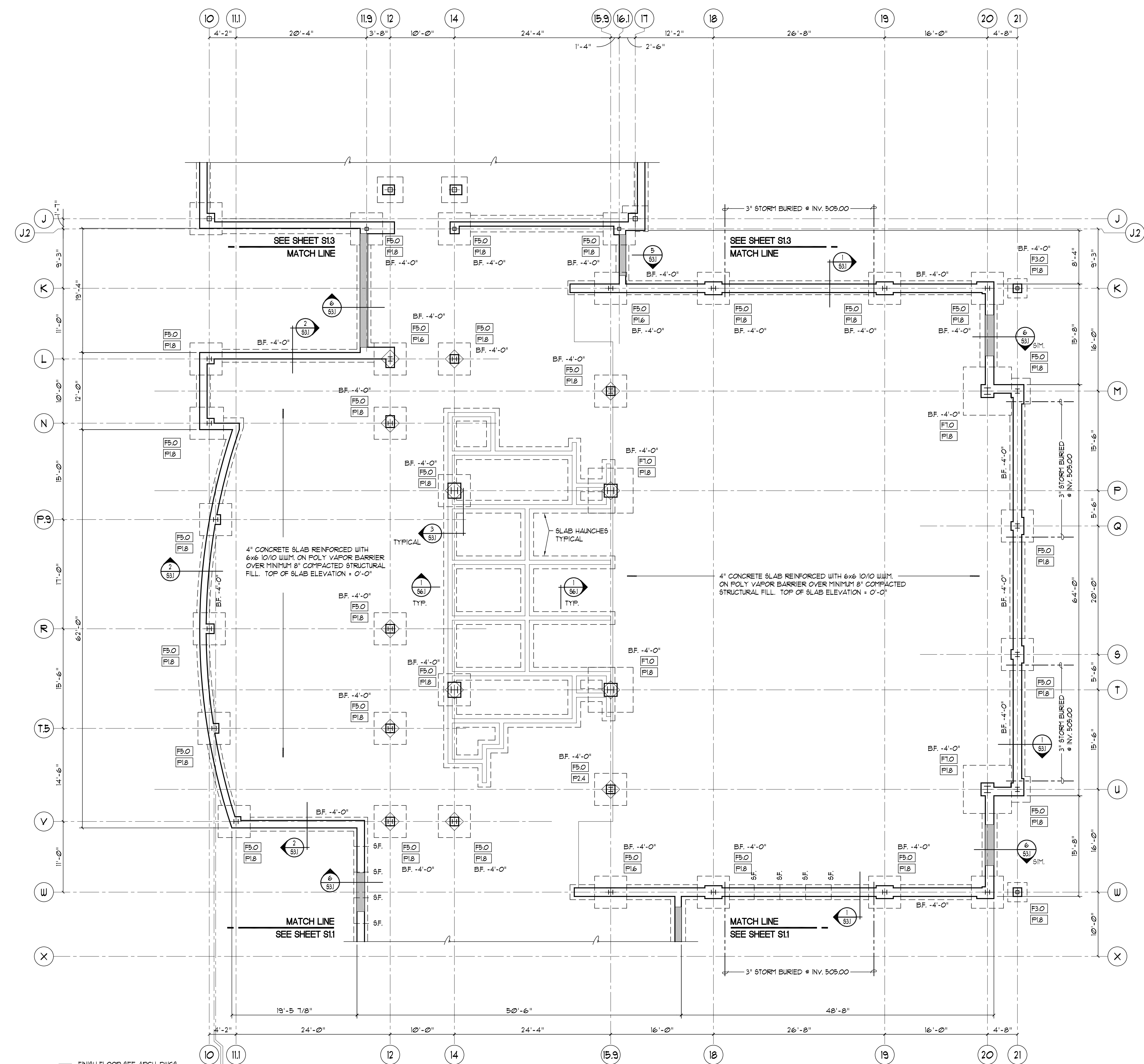


KEYPLAN - NOT TO SCALE

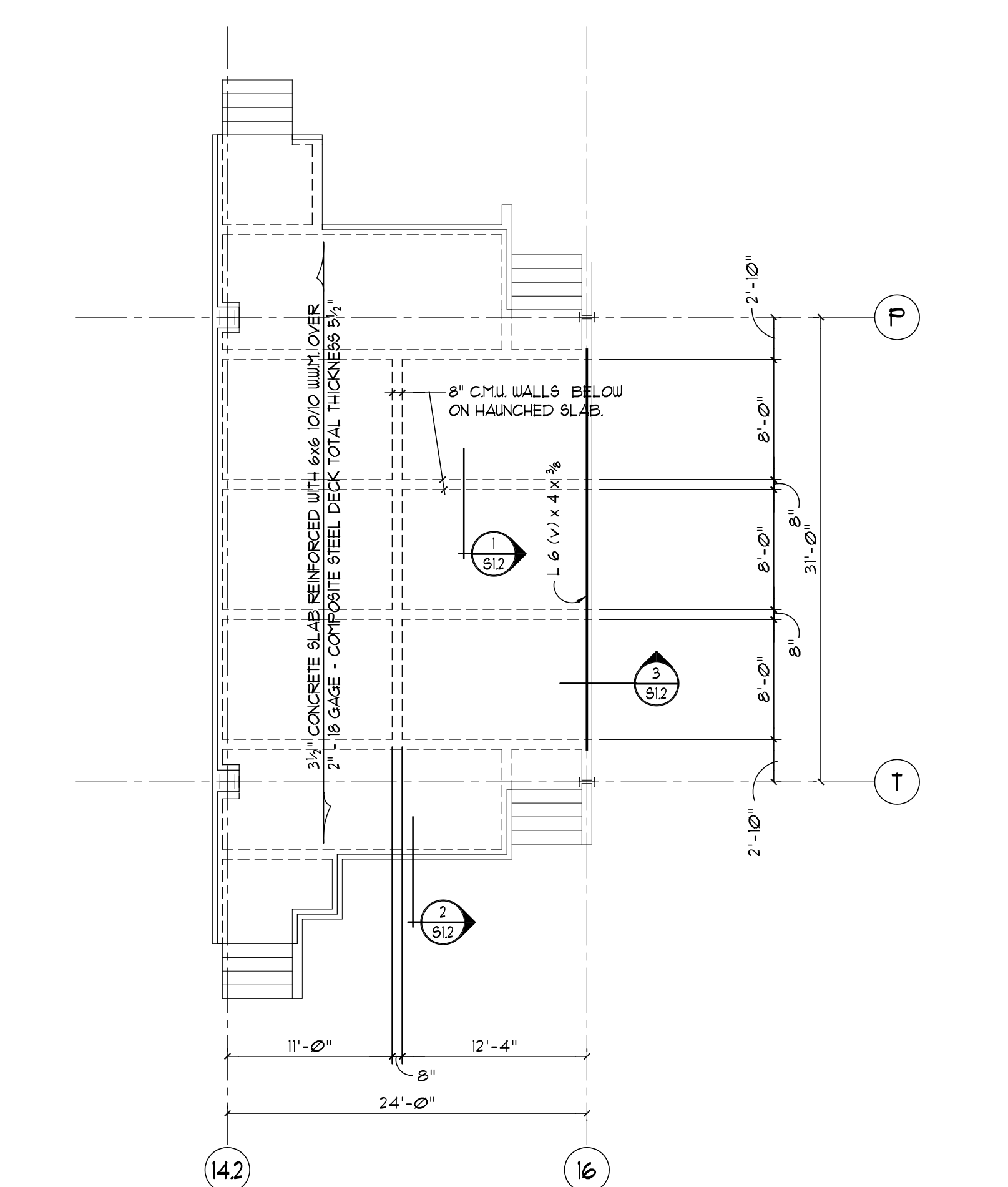
No.	Revisions	DESCRIPTION	DATE
01	B I D	I S S U E	4-30-99

FOUNDATION PLAN
AREA "B"
Scale: AS NOTED Drawn By: KA
Date: 12-1-98 Checked By: MG

Hebron
Elementary School
Hebron, Connecticut
Additions and
Renovations
State Project Number
#067-029-EA

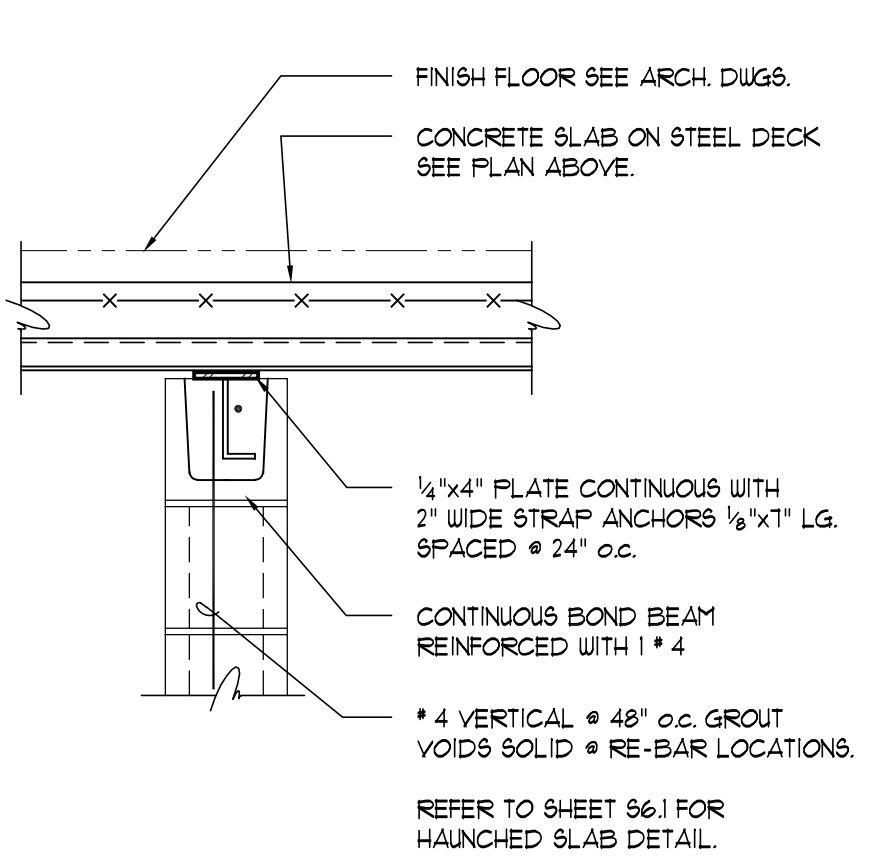


GYMNASIUM STAGE FRAMING PLAN
1/8" = 1'-0"

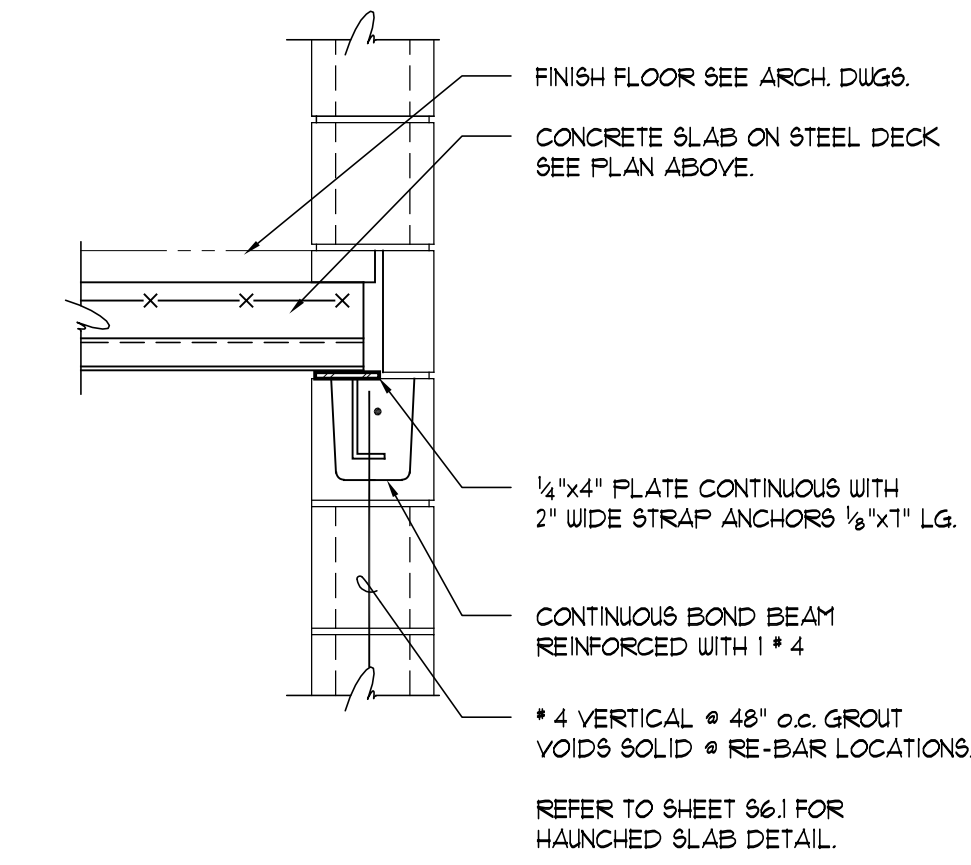


FOUNDATION PLAN - AREA "B"
1/8" = 1'-0"

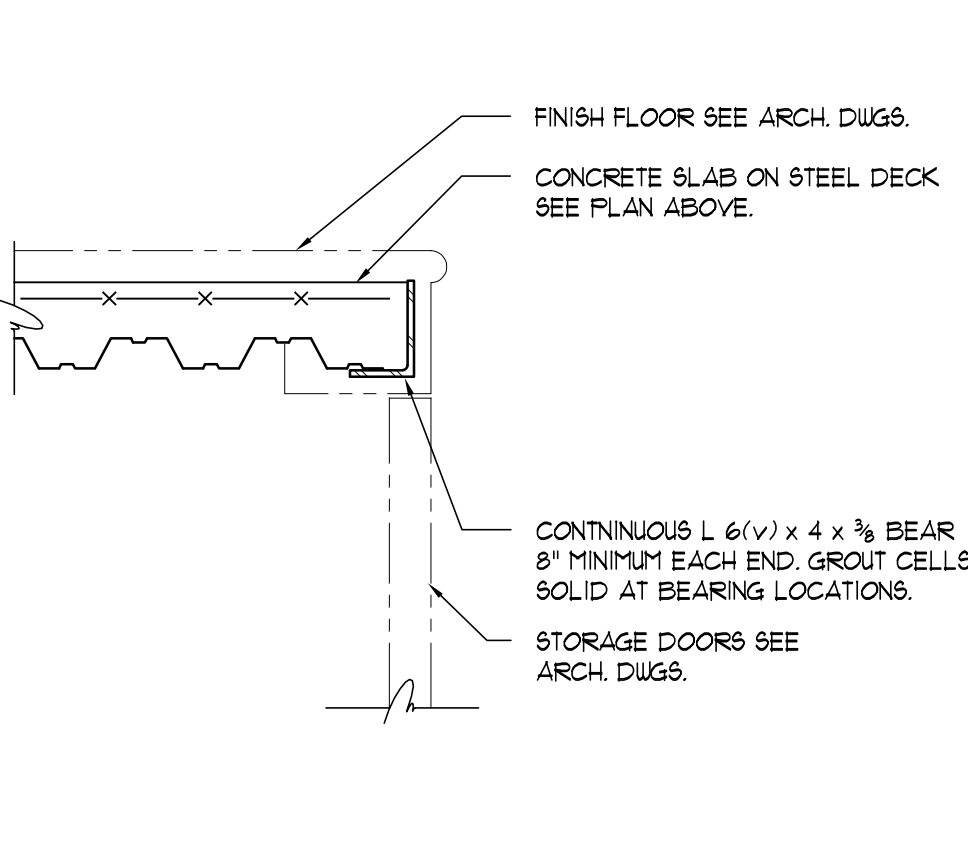
- FOUNDATION PLAN NOTES:
- TOP OF CONCRETE FLOOR SLAB ELEVATION + (0'-0") UNLESS TOP OF SLAB ELEVATION NOTED (1) FROM TOP OF SLAB ELEVATION + (0'-0") REFER TO ARCHITECTURAL AND SITE DRAWINGS FOR FIRST FLOOR ELEVATION (FFE) RELATIVE TO SITE DATUM.
 - FLOOR SLAB TO BE 4" MIN. (UNO) OF 3000 P.S.I. CONCRETE REINFORCED WITH 6x6 W/4x14 WELDED WIRE FABRIC OVER 6 MIL. POLY. VAPOR BARRIER ON MINIMUM 8" COMPACTED STRUCTURAL FILL.
 - T.W. INDICATES TOP OF WALL ELEVATION.
 - T.S. INDICATES TOP OF SHELF ELEVATION.
 - B.F. INDICATES BOTTOM OF FOOTING ELEVATION.
 - S.F. INDICATES STEP FOOTING. SEE TYPICAL DETAIL ON DRAWING 5600x.
 - C.J. INDICATES CONTROL JOINT. SEE TYPICAL DETAIL ON DUG 5600x.
 - INDICATES CONCRETE FOOTING. SEE SCHEDULE ON DRAWING 5600x.
 - △ INDICATES CONCRETE PIER. SEE SCHEDULE ON DRAWING 5600x.
 - PROVIDE 1'-4" x 5'-0" LONG IN CONCRETE SLABS AT RE-ENTRY CORNERS.
 - INDICATES 4" DIAMETER WALL FOOTING DRAIN IN FREE DRAINING MATERIAL. SEE SPECIFICATIONS.
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 - INDICATES EXISTING FOUNDATION TO BE REMOVED COMPLETE.



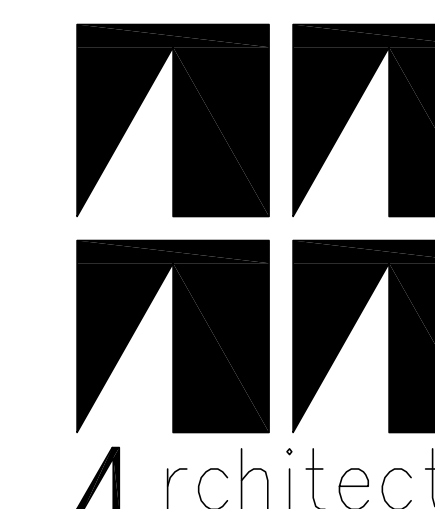
SECTION 1
1" = 1'-0"



SECTION 2
1" = 1'-0"



SECTION 3
1" = 1'-0"



C.J. Lawler Associates
7 South Main Street, West Hartford, Connecticut 06107
(860) 233-8526 FAX: (860) 231-9063

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Structural Engineers
40 Wethersfield Avenue, Hartford, Connecticut 06114
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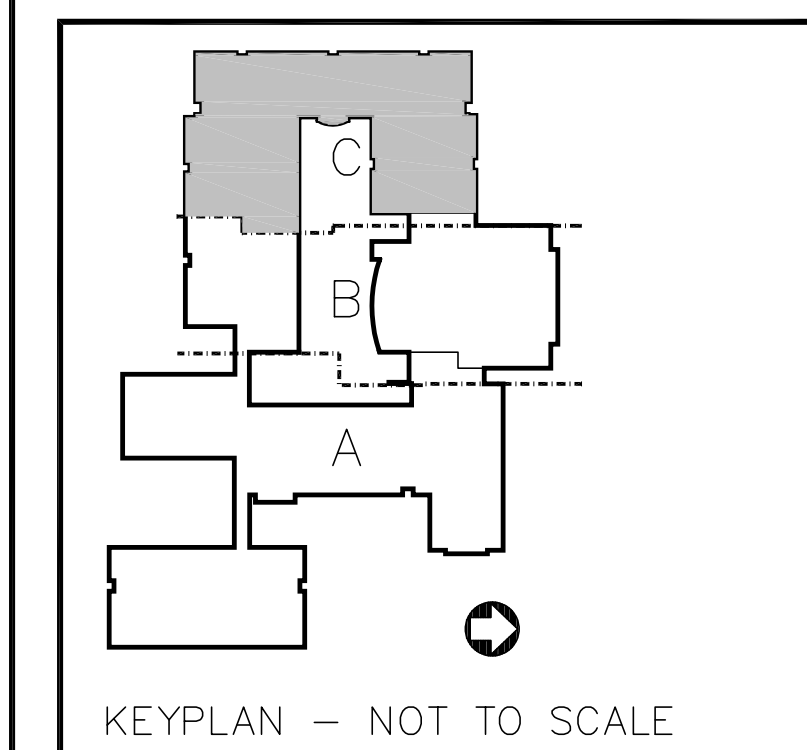
van ZELM HEYWOOD & SHADFORD INC
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(860) 434-0353 FAX: (860) 434-0036

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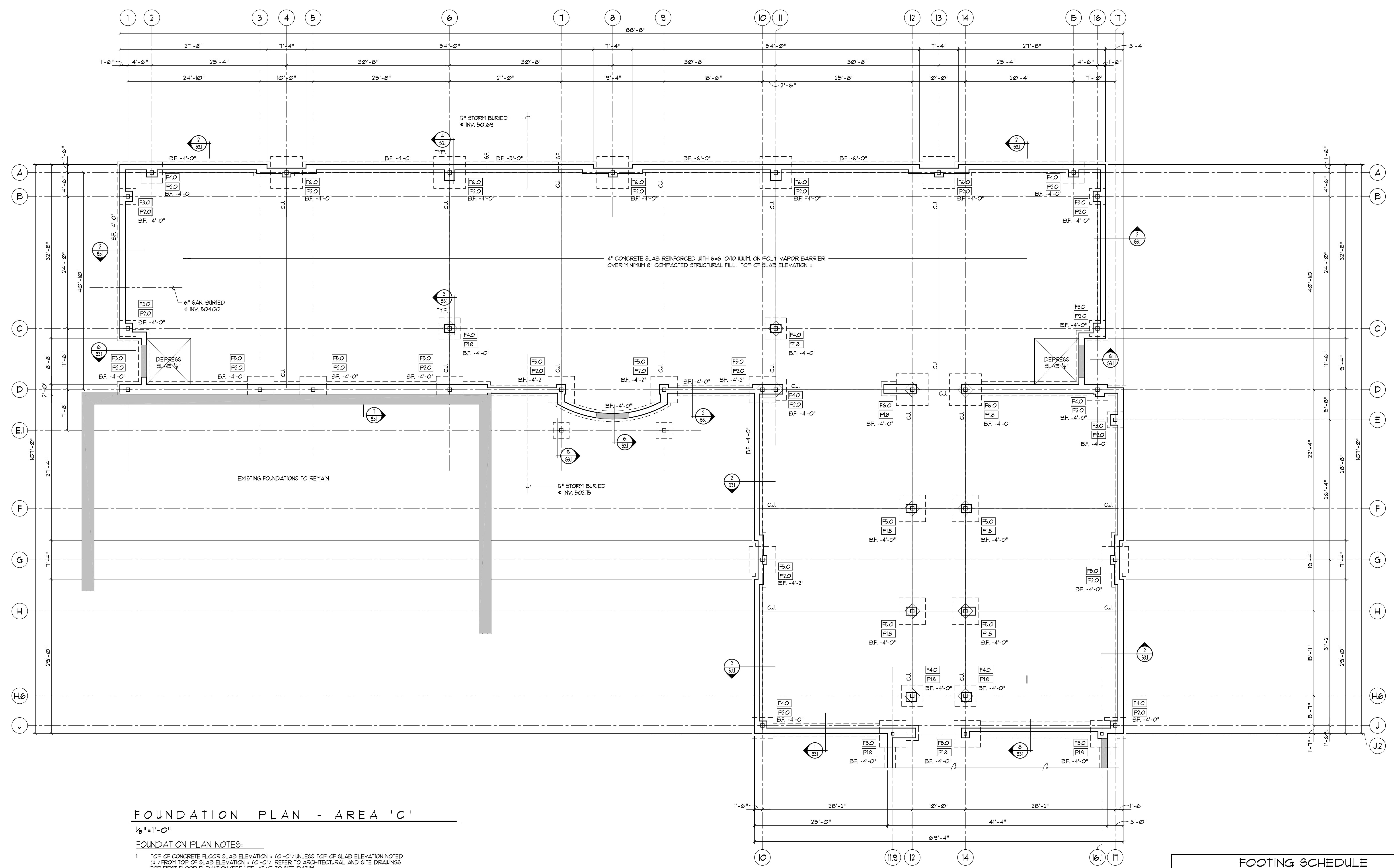
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No.	Description	Date
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Revisions		

FOUNDATION PLAN AREA "C"
Scale: AS NOTED Drawn By: KA
Date: 12-1-98 Checked By: MG

Hebron Elementary School
Hebron, Connecticut
Additions and Renovations
State Project Number #067-029-EA



FOUNDATION PLAN - AREA 'C'

1/8" = 1'-0"

- FOUNDATION PLAN NOTES:
- TOP OF CONCRETE FLOOR SLAB ELEVATION = (0'-0") UNLESS TOP OF SLAB ELEVATION NOTED (1') FROM TOP OF SLAB ELEVATION = (0'-0") REFER TO ARCHITECTURAL AND SITE DRAWINGS FOR FIRST FLOOR ELEVATION (FFE) RELATIVE TO SITE DATUM.
 - FLOOR SLAB TO BE 4" MIN. (MIN.) OF 3000 PSI CONCRETE REINFORCED WITH #6@16"X14" WELDED WIRE FABRIC OVER 6 MIL. POLY. VAPOR BARRIER ON MINIMUM 8" COMPACTED STRUCTURAL FILL.
 - T.W. INDICATES TOP OF WALL ELEVATION.
 - T.S. INDICATES TOP OF SHELF ELEVATION.
 - BF. INDICATES BOTTOM OF FOOTING ELEVATION.
 - S.F. INDICATES STEP FOOTING. SEE TYPICAL DETAIL ON DRAWING 6xxxx
 - C.J. INDICATES CONTROL JOINT. SEE TYPICAL DETAIL ON DRAWING 6xxxx
 - INDICATES CONCRETE FOOTING, SEE SCHEDULE ON DRAWING 6xxxx
 - △ INDICATES CONCRETE PIER, SEE SCHEDULE ON DRAWING 6xxxx
 - PROVIDE 1'-4" X 5'-0" LONG IN CONCRETE SLABS AT RE-ENTRY CORNERS.
 - INDICATES 4" DIAMETER WALL FOOTING DRAIN IN FREE DRAINING MATERIAL. SEE SPECIFICATIONS.
 - ALL VERTICAL WALL REINFORCING IN MASONRY WALLS SHALL BE DOELED INTO CONCRETE WALL BELOW. DOBELS MAY BE DRILLED AND EPOXY GROUTED AT CONTRACTORS OPTION.
 - CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES, WHETHER INDICATED OR NOT ON DRAWINGS, WHICH MAY BE AFFECTED BY THE CONSTRUCTION PROCESS.
 - SHADED AREAS INDICATE DROP IN TOP OF FOUNDATION WALL.
 - INDICATES EXISTING FOUNDATIONS TO REMAIN.
 - INDICATES EXISTING TOP OF FOUNDATION WALLS TO BE REMOVED TO 2" BELOW TOP OF NEW FLOOR SLAB ELEVATION.
 - INDICATES EXISTING FOUNDATION TO BE REMOVED COMPLETE.

FOOTING SCHEDULE

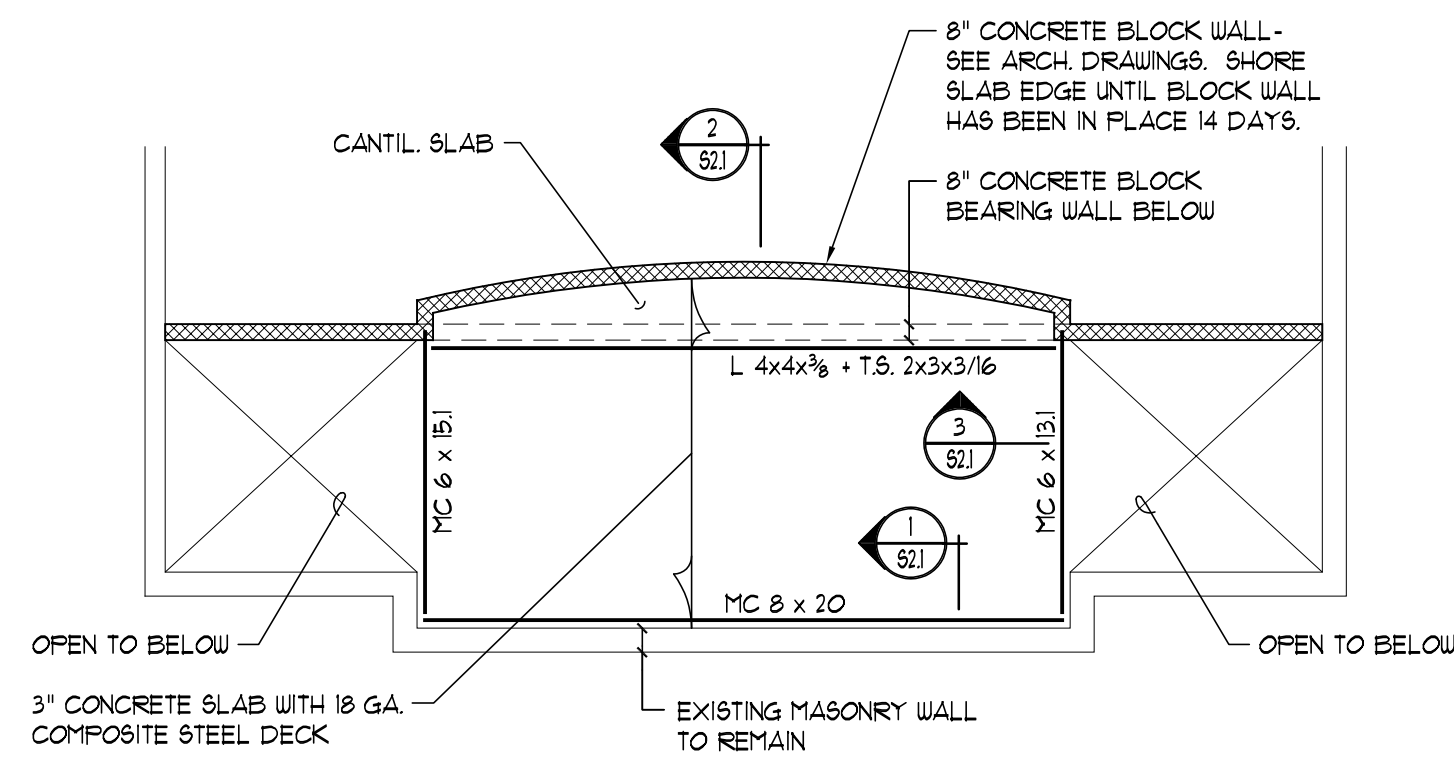
MARK	SIZE	REINFORCING (BOTH SAYS BOTTOM)
F3.0	3'-0" x 3'-0" x 1'-0"	4 # 4
F4.0	4'-0" x 4'-0" x 1'-0"	4 # 5
F5.0	5'-0" x 5'-0" x 1'-2"	6 # 5
F6.0	6'-0" x 6'-0" x 1'-6"	6 # 5
F1.0	1'-0" x 1'-0" x 1'-6"	1 # 5

PIER SCHEDULE

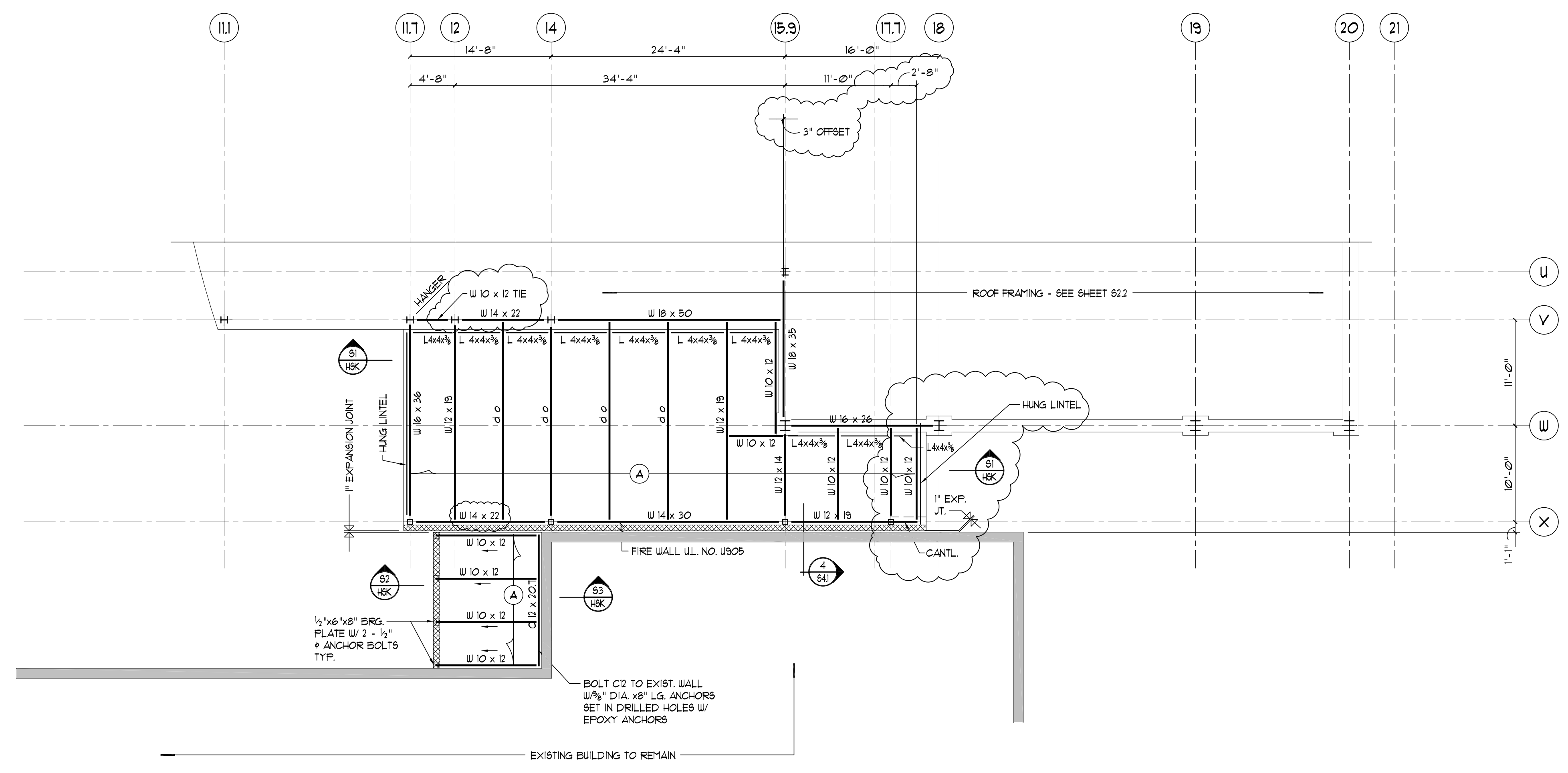
MARK	SIZE	REINFORCING (PROVIDE 5 TIES # 1" O.C. TYP.)
P1.6	16" x 20"	4 # 1 VERTICAL
P1.8	18" x 18"	4 # 1 VERTICAL
P2.0	20" x 20"	4 # 1 VERTICAL

NOTES: DOWEL ALL VERTICAL REINFORCEMENT INTO FOOTING. CENTER ALL PIER REINFORCING UNDER COLUMN.

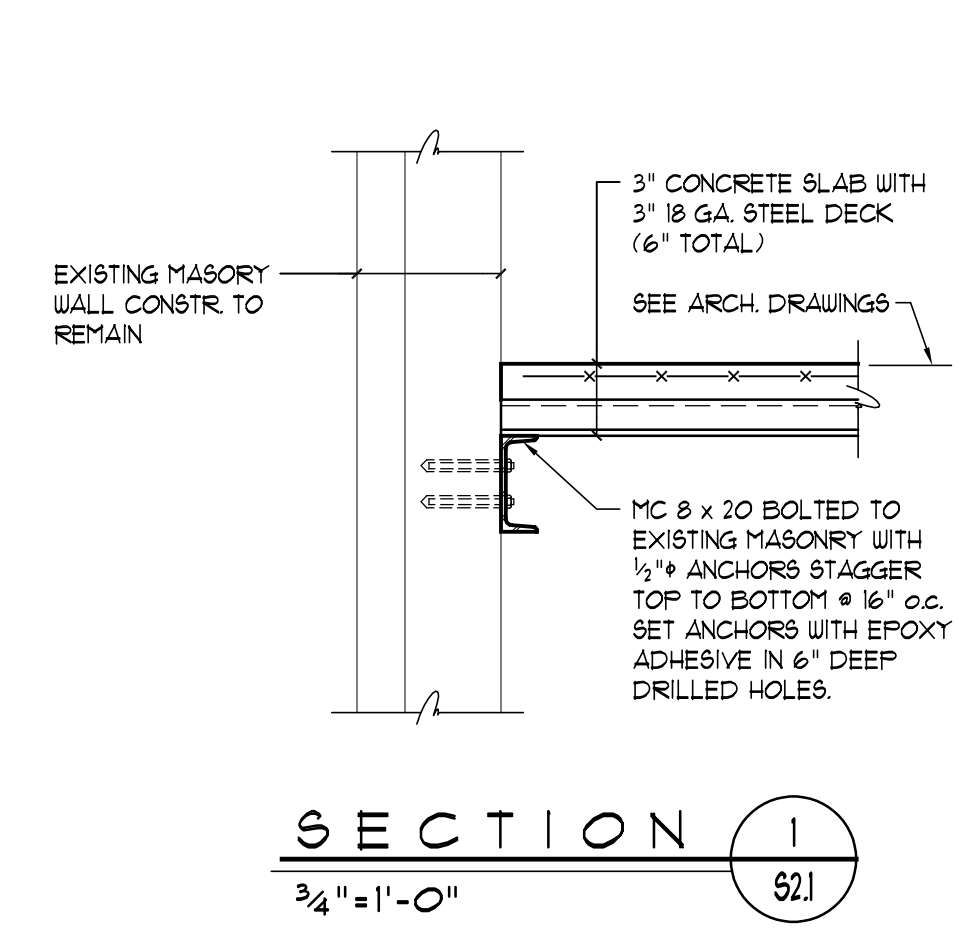
S1.3



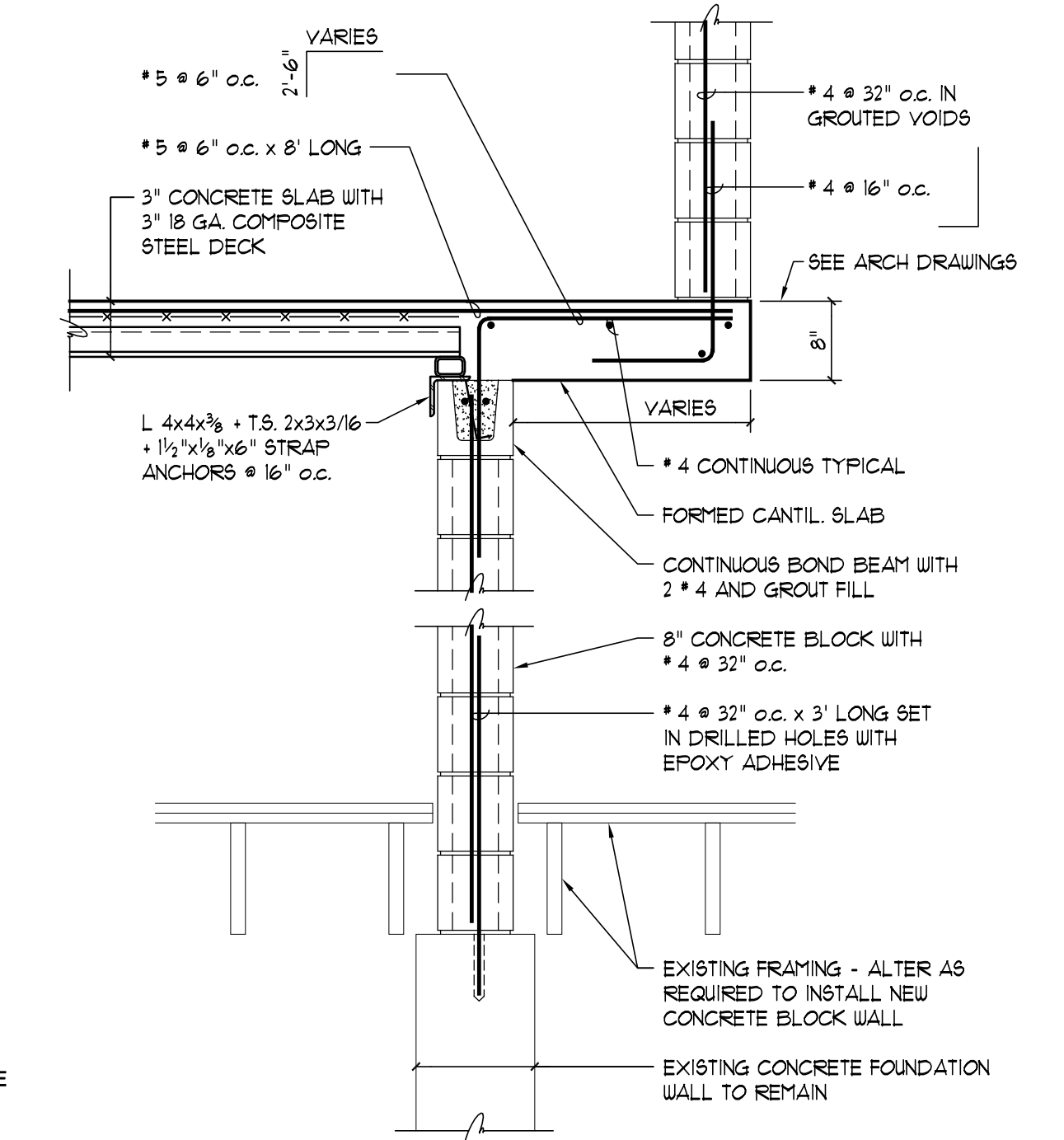
MECHANICAL MEZZANINE FLOOR FRAMING PLAN
 1/8" = 1'-0"



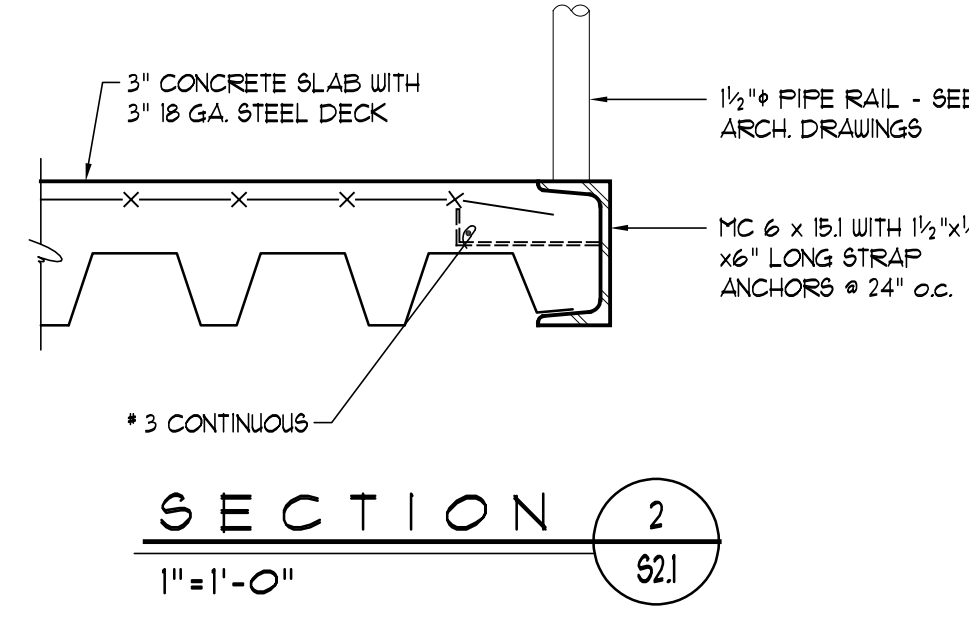
ROOF FRAMING PLAN - AREA "A"
 1/8" = 1'-0"



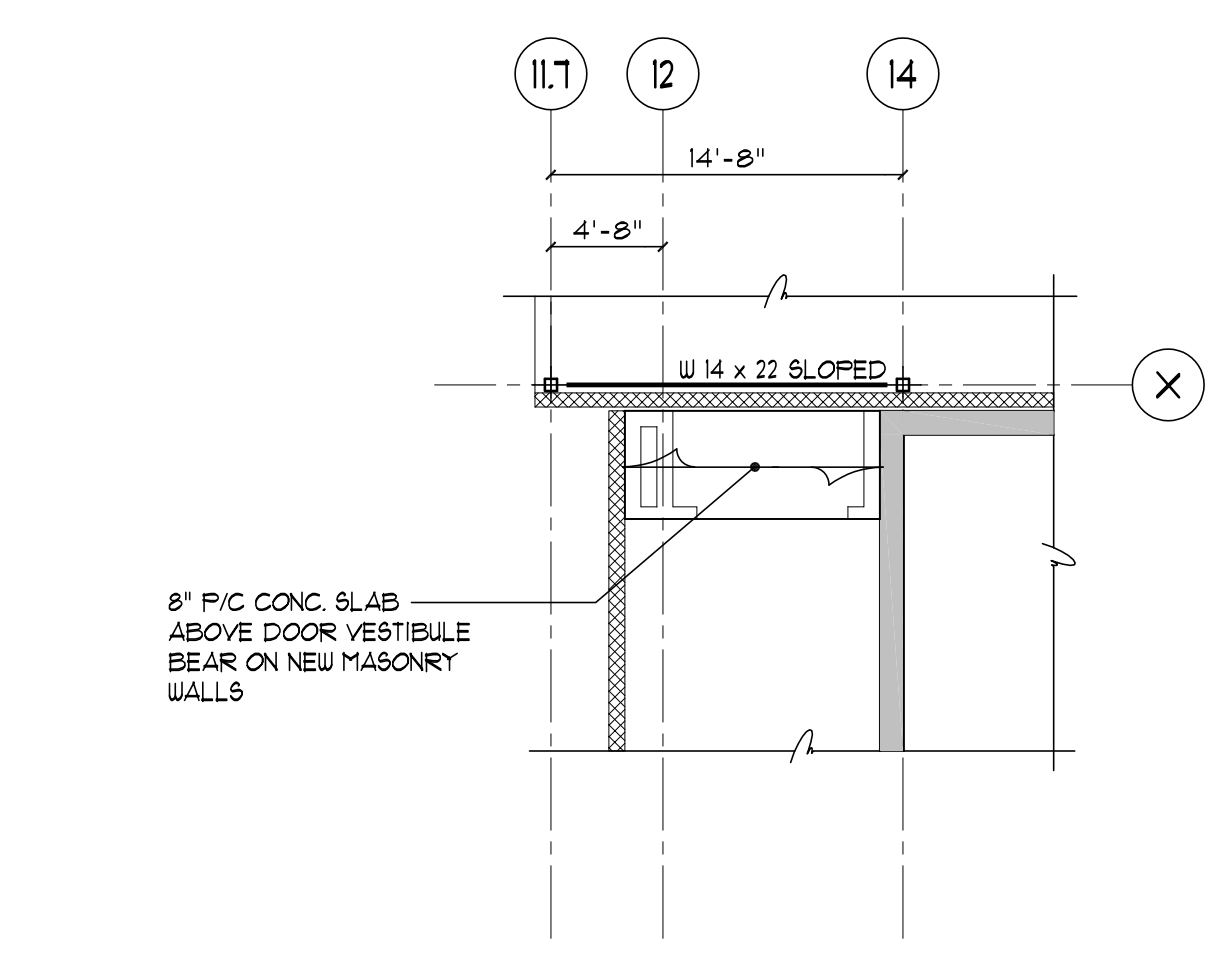
SECTION 1
 3/4" = 1'-0"



SECTION 3
 3/4" = 1'-0"



SECTION 2
 1" = 1'-0"



FRAMING PLAN ABOVE DOOR VESTIBULE
 1/8" = 1'-0"

C.J. Lawler Associates
 Architects
 7 South Main Street, West Hartford, Connecticut 06107
 (860) 233-8526 FAX: (860) 231-9063

GIRARD & CO. ENGINEERS
 Structural Engineers
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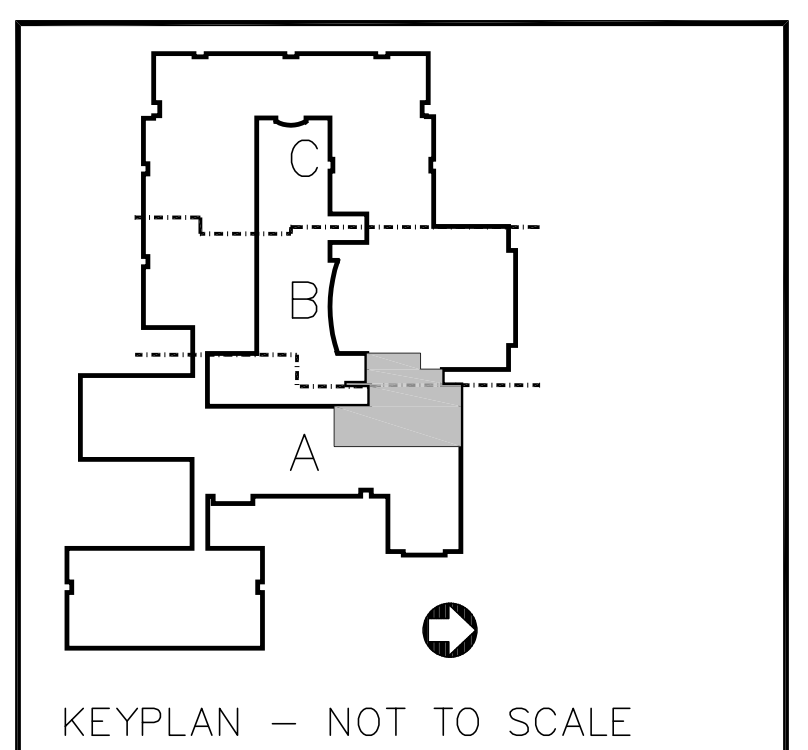
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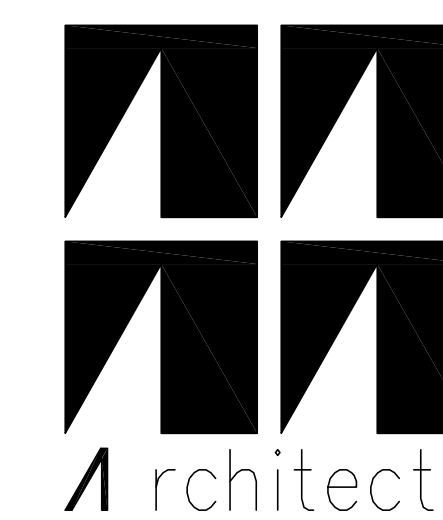
AREA "A" ROOF FRAMING PLAN
 MEZZANINE FRAMING PLAN

Scale: AS NOTED Drawn By: KA
 Date: 12-1-98 Checked By: MG

Hebron
 Elementary School
 Hebron, Connecticut

Additions and
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State Project Number
 #067-029-EA



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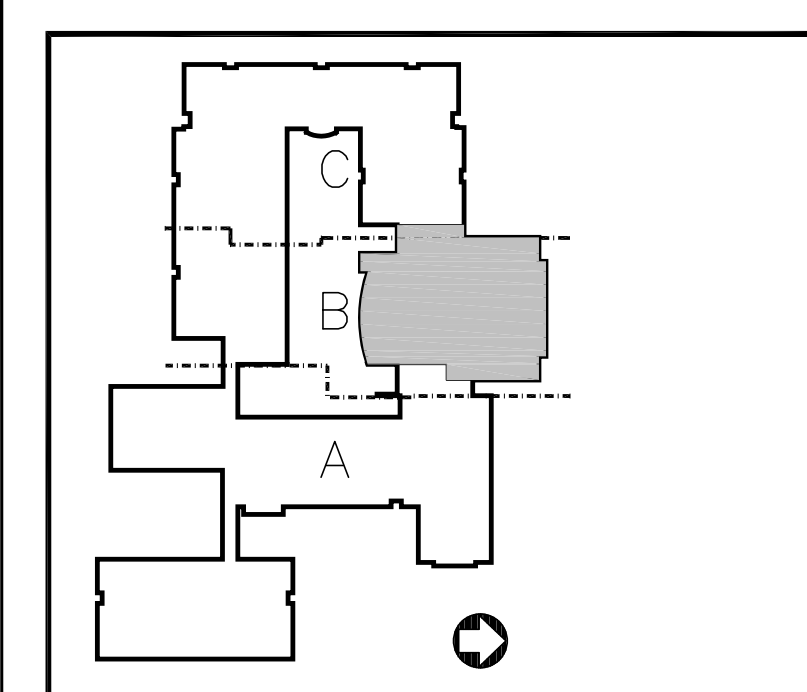
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KEYPLAN - NOT TO SCALE

No.	Description	Date
01	B I D I S S U E	4-30-99
Revisions		

LOW ROOF & MECH. MEZZ. FRAMING PLAN AREA "B"

Scale: AS NOTED Drawn By: KA
Date: 12-1-98 Checked By: MG

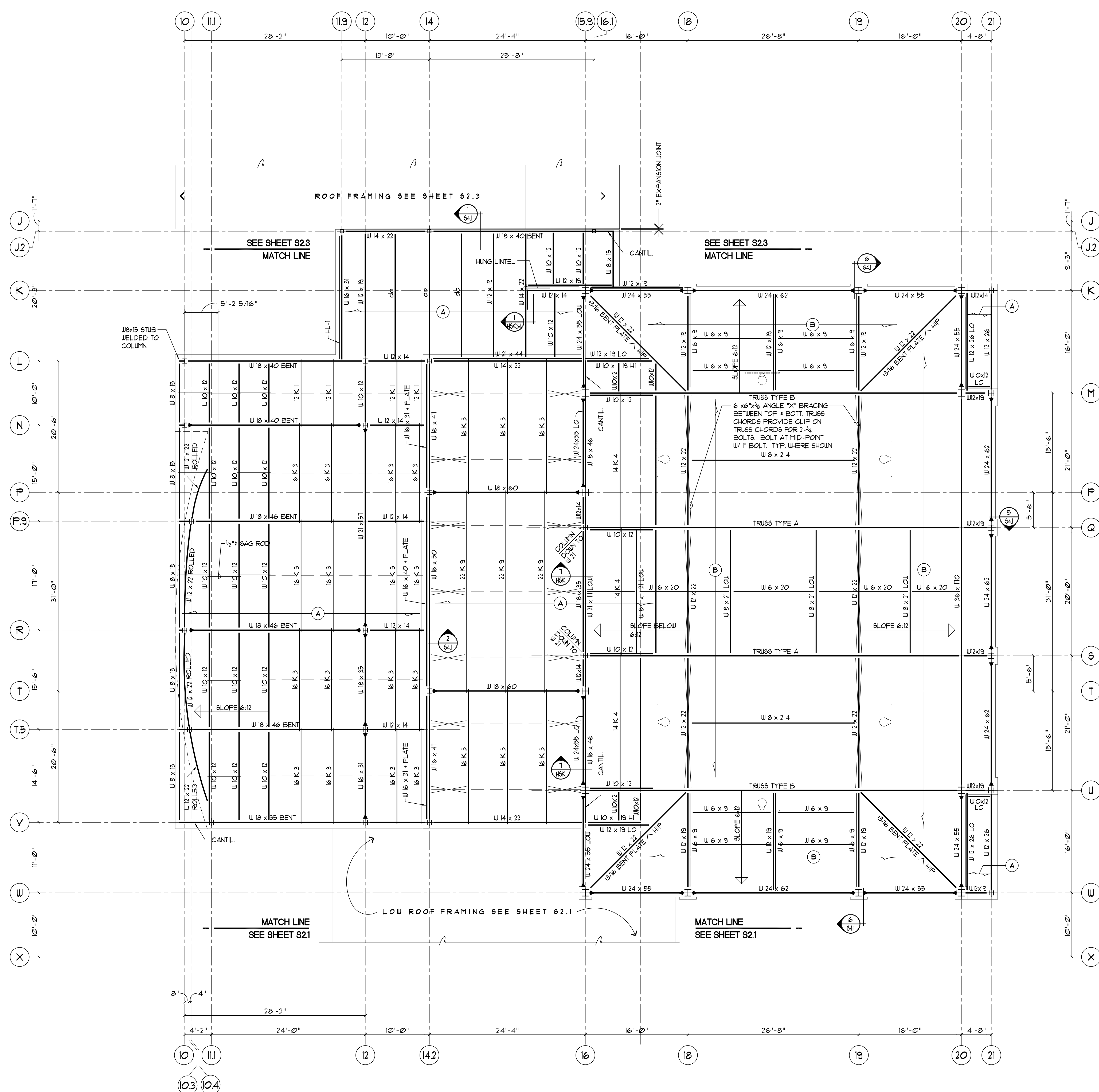
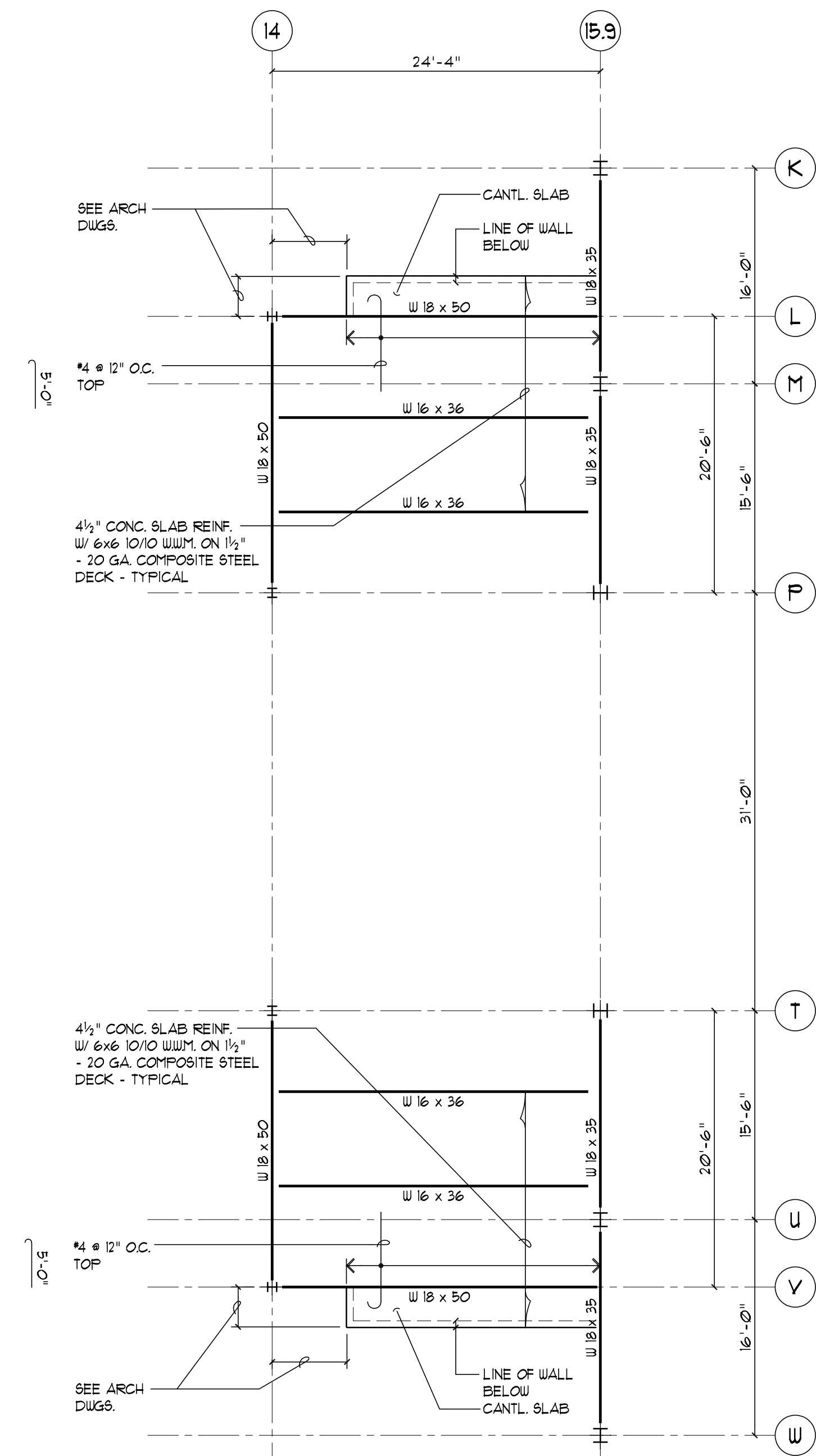
Hebron Elementary School
Hebron, Connecticut

Additions and Renovations

State Project Number #067-029-EA

ROOF FRAMING PLAN NOTES:

- TOP OF STEEL ROOF DECK ELEVATION = (W-X) FROM TOP OF SLAB REFERENCE ELEVATION = (O'-0") UNLESS TOP OF STEEL ROOF DECK ELEVATION NOTED (1) THIS FROM TOP OF STEEL ROOF DECK ELEVATION = (W-X) REFER TO ARCHITECTURAL DRAWINGS FOR REFERENCE ELEVATIONS.
 - TOP OF STEEL JOIST ELEVATION = -1/2" FROM TOP OF STEEL ROOF DECK.
 - TOP OF STEEL FRAMING ELEVATION PERPENDICULAR TO STEEL ROOF JOISTS = -4 1/2" FROM TOP OF STEEL ROOF DECK.
 - TOP OF STEEL FRAMING ELEVATION PARALLEL TO STEEL ROOF JOISTS = -1/2" FROM TOP OF STEEL ROOF DECK.
 - TOP OF STEEL ELEVATION OF BEAMS PARALLEL TO JOISTS IS TO MATCH SLOPE OF JOIST BETWEEN SUPPORTING GIRDERS AT EACH END UNLESS NOTED.
 - (A) INDICATES SPAN DIRECTION OF ROOF DECK TO BE 1/2" DEEP 20 GAGE WIDE RIB STEEL ROOF DECK PAINTED - TYPICAL UNLESS NOTED OTHERWISE.
 - (B) INDICATES SPAN DIRECTION OF ROOF DECK TO BE 6" DEEP 10 GAGE LONG SPAN DECK WITH 10 GAGE ACOUSTIC FLAT BOTTOM SHEET - UNLESS NOTED OTHERWISE.
1. STRUCTURAL STEEL FRAMING KEY:
-
- ALL JOISTS AND BEAMS ARE SPACED EVENLY BETWEEN COLUMN LINES UNLESS NOTED.
 - SEE S61 AND S62 FOR TYPICAL DETAILS AND GENERAL NOTES.
 - COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND SLEEVES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
 - INDICATES HORIZONTAL BRIDGING 1 1/4" x 1/4" x 1/4" CONTINUOUS TOP & BOTTOM.
 - JOISTS OCCURRING AT COLUMNS SHALL HAVE BOTTOM CHORDS EXTENDED AND WELDED TO COLUMNS AFTER ROOFING DEAD LOAD IS APPLIED.
 - G.C. SHALL BE RESPONSIBLE FOR ALL SHORING OF EXISTING CONSTRUCTION REQUIRED TO SAFELY COMPLETE THE WORK.
 - G.C. SHALL VERIFY ALL EXISTING CONDITIONS, MATERIALS, AND DIMENSIONS BEFORE COMPLETING PRICING, ORDERING, FABRICATING AND/OR ASSEMBLING ANY AND ALL PARTS OF THE WORK.





C.J. Lawler Associates
7 South Main Street, West Hartford, Connecticut 06107
(860) 233-8526 FAX: (860) 231-9063

GIRARD & CO. ENGINEERS
Structural Engineers
40 Wethersfield Avenue, Hartford, Connecticut 06114
(860) 524-5196 FAX: (860) 548-1463

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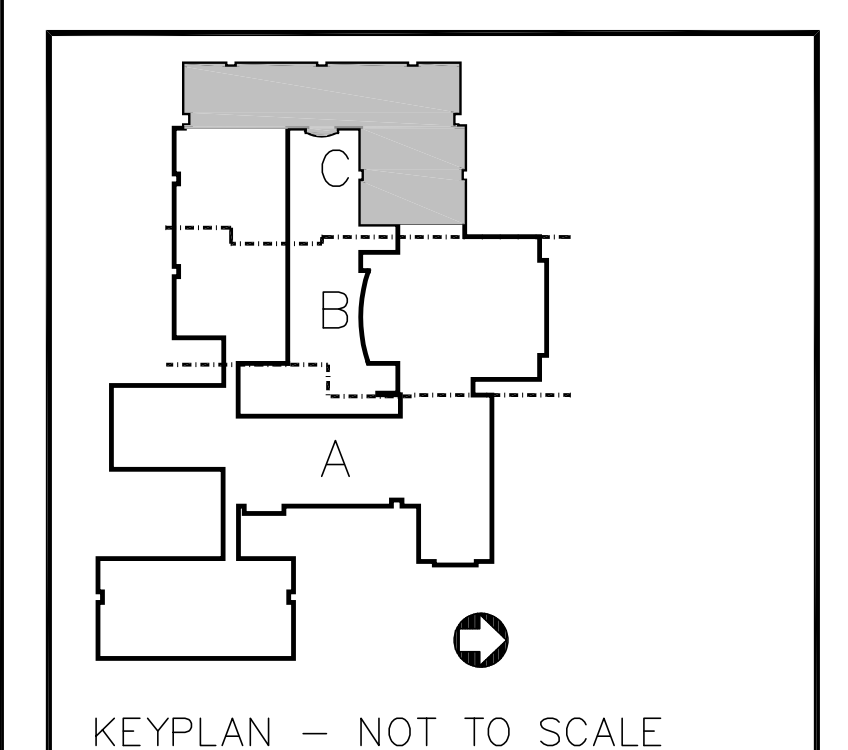
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KEYPLAN - NOT TO SCALE

01	B I D	I S S U E	4-30-99
No.	Description		Date
Revisions			

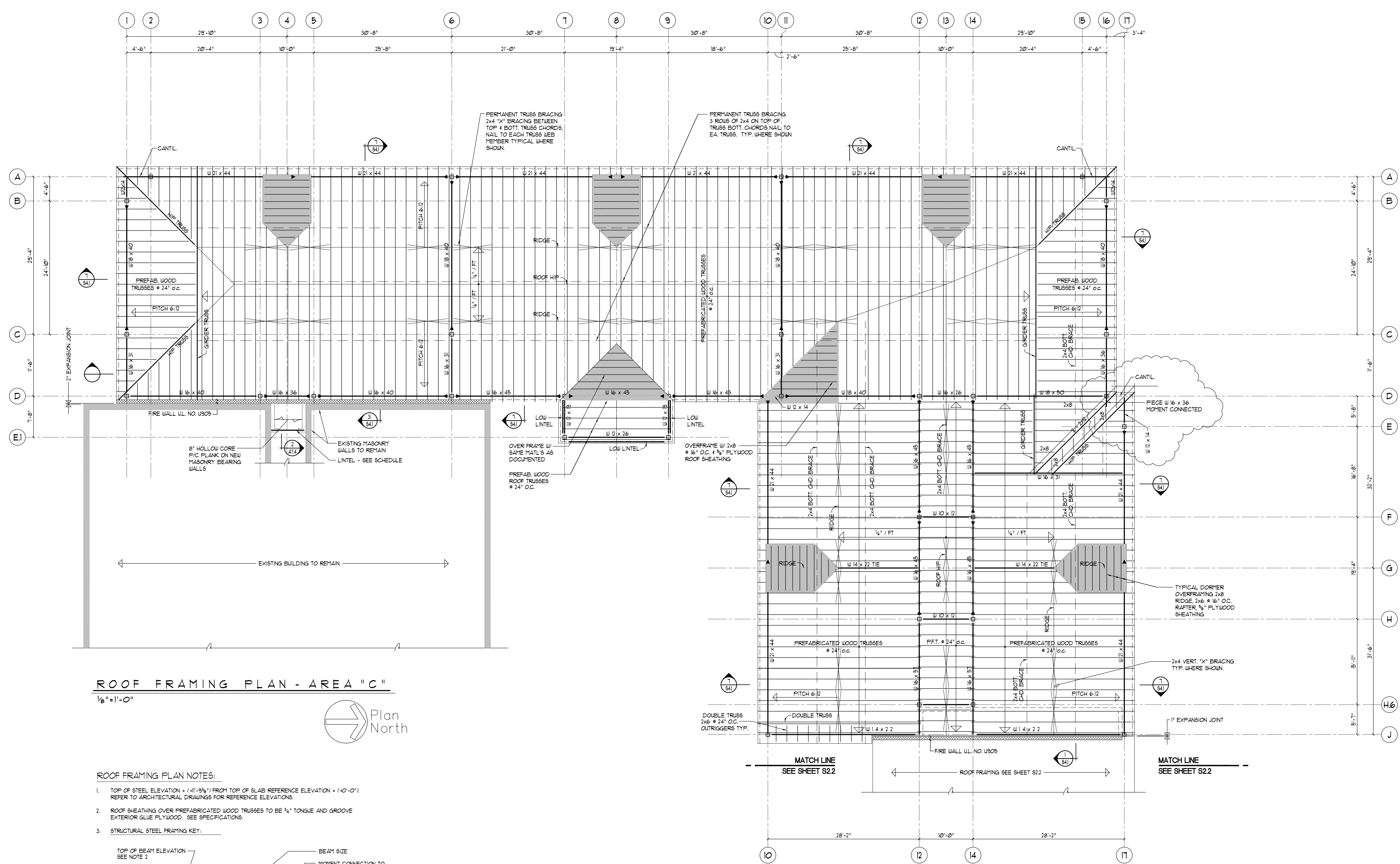
ROOF FRAMING PLAN AREA "C"

Scale: AS NOTED Drawn By: KA
Date: 12-1-98 Checked By: MG

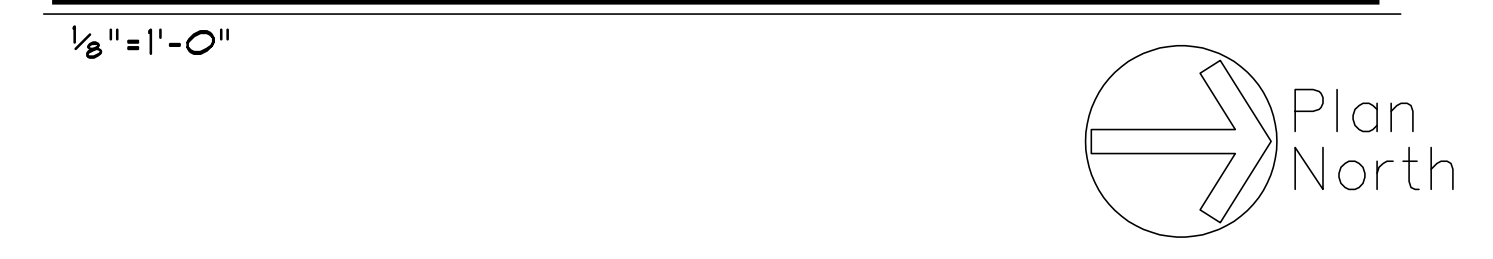
Hebron Elementary School
Hebron, Connecticut

Additions and Renovations

State Project Number #067-029-EA

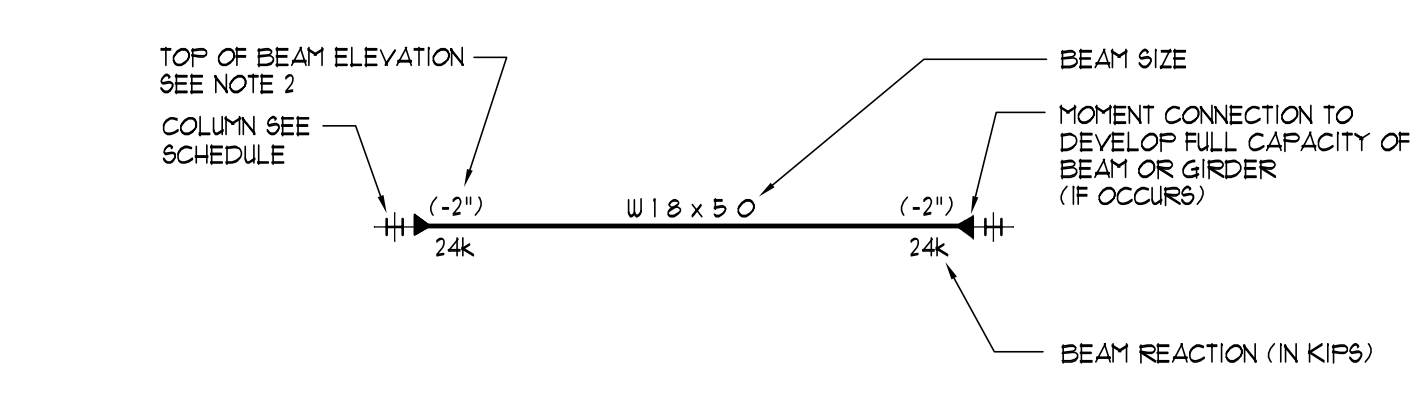


ROOF FRAMING PLAN - AREA "C"

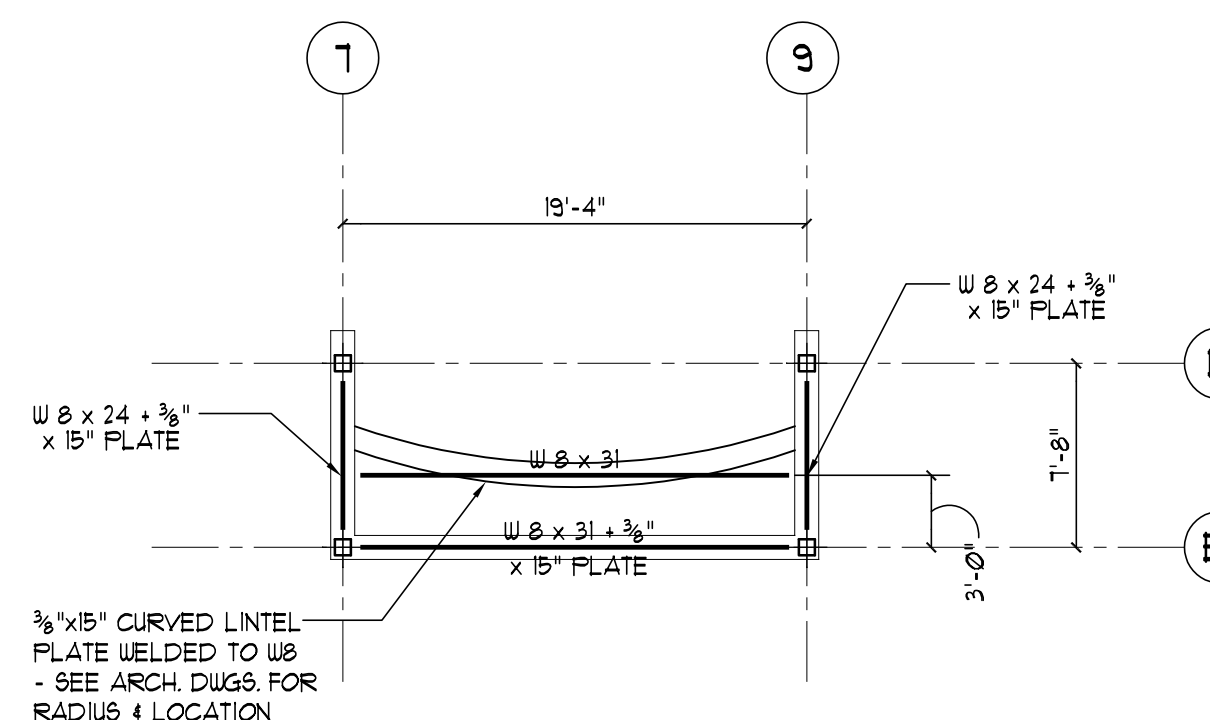


ROOF FRAMING PLAN NOTES:

- TOP OF STEEL ELEVATION = (+10'-9 1/2") FROM TOP OF SLAB REFERENCE ELEVATION = (+0'-0"). REFER TO ARCHITECTURAL DRAWINGS FOR REFERENCE ELEVATIONS.
- ROOF SHEATHING OVER PREFABRICATED WOOD TRUSSES TO BE 3/4" TONGUE AND GROOVE EXTERIOR GLUE PLYWOOD. SEE SPECIFICATIONS.
- STRUCTURAL STEEL FRAMING KEY:



- SEE S6.1 AND S6.2 FOR TYPICAL DETAILS AND GENERAL NOTES.
- COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND SLEEVES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- G.C. SHALL BE RESPONSIBLE FOR ALL SHORING OF EXISTING CONSTRUCTION REQUIRED TO SAFELY COMPLETE THE WORK.
- G.C. SHALL VERIFY ALL EXISTING CONDITIONS, MATERIALS AND DIMENSIONS BEFORE COMPLETING PRICING, ORDERING, FABRICATING AND/OR ASSEMBLING ANY AND ALL PARTS OF THE WORK.
- SHADED AREAS INDICATE OVERFRAMING OF PREFABRICATED WOOD TRUSSES WITH CONVENTIONAL WOOD FRAMING. SEE S FOR TYPICAL DETAILS.



FRAMING PLAN @ LINTEL LEVEL

1/8" = 1'-0"
NOTE: ALL LINTELS (BM 4 PLATE) TO BE HOT DIP GALVANIZED AFTER FABRICATION.

ROOF TRUSS NOTES

PREFABRICATED WOOD ROOF TRUSSES:

- ROOF TRUSSES SHALL BE PREFABRICATED FROM No. 2 KILN DRIED OR BETTER MATERIAL.
- TRUSS DETAILS AND TRUSS MANUFACTURE SHALL BE IN ACCORDANCE WITH THE LATEST T.P.I. (TRUSS PLATE INSTITUTE) PUBLICATION "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES".
- TRUSS MANUFACTURER SHALL HAVE A MINIMUM OF 5 YEARS OF CONTINUOUS TRUSS FABRICATION EXPERIENCE.
- PROVIDE TEMPORARY AND PERMANENT TRUSS BRACING PER T.P.I. RECOMMENDATIONS NOTED IN T.P.I. LATEST PUBLICATION "BRACING WOOD TRUSSES" AND ALSO AS SHOWN ON PLANS.
- PROVIDE DOUBLE TRUSSES AT LOCATIONS AS SHOWN ON THE DRAWINGS.
- ATTACH EACH TRUSS TO THE BEARING WALL PLATES WITH NAILED BENT STEEL CONNECTORS AS NOTED.
- TRUSS LOADING TO BE AS FOLLOWS: SPACING = 24" o.c.
a. TOP CHORD: DEAD LOAD = 33.0 P.L.F. SNOW LOAD = 100.0 P.L.F.
b. BOTTOM CHORD: DEAD LOAD = 33.0 P.L.F. LIVE LOAD = 0 P.L.F.
c. WIND LOADS: (ADD TO TOP CHORD, REFER TO DESIGN DATA)
- PRIOR TO TRUSS FABRICATION PREPARE AND SUBMIT SHOP DRAWINGS OF THE TRUSSES SHOWING LUMBER SIZES, LUMBER SPECIES AND GRADE, STRESSES, LOADING, TYPE OF CONNECTOR AND DETAILS OF FABRICATION. SHOP DRAWINGS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF CONNECTICUT. ALSO INCLUDE TRUSS LAYOUT PLAN WITH TRUSS DESIGNATIONS.



C.J. Lawler Associates
 7 South Main Street, West Hartford, Connecticut 06107
 (860) 524-8526 FAX: (860) 231-9063

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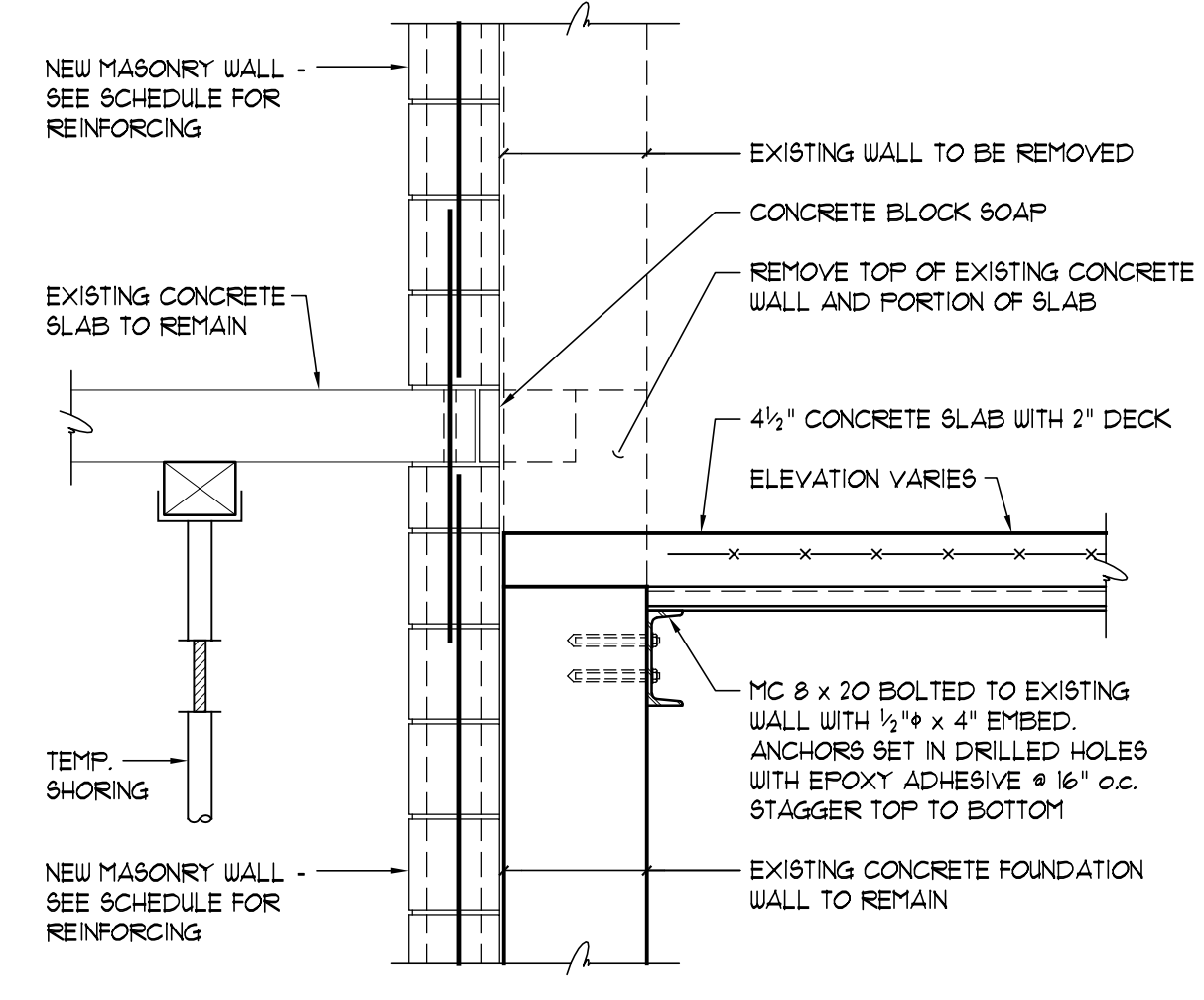
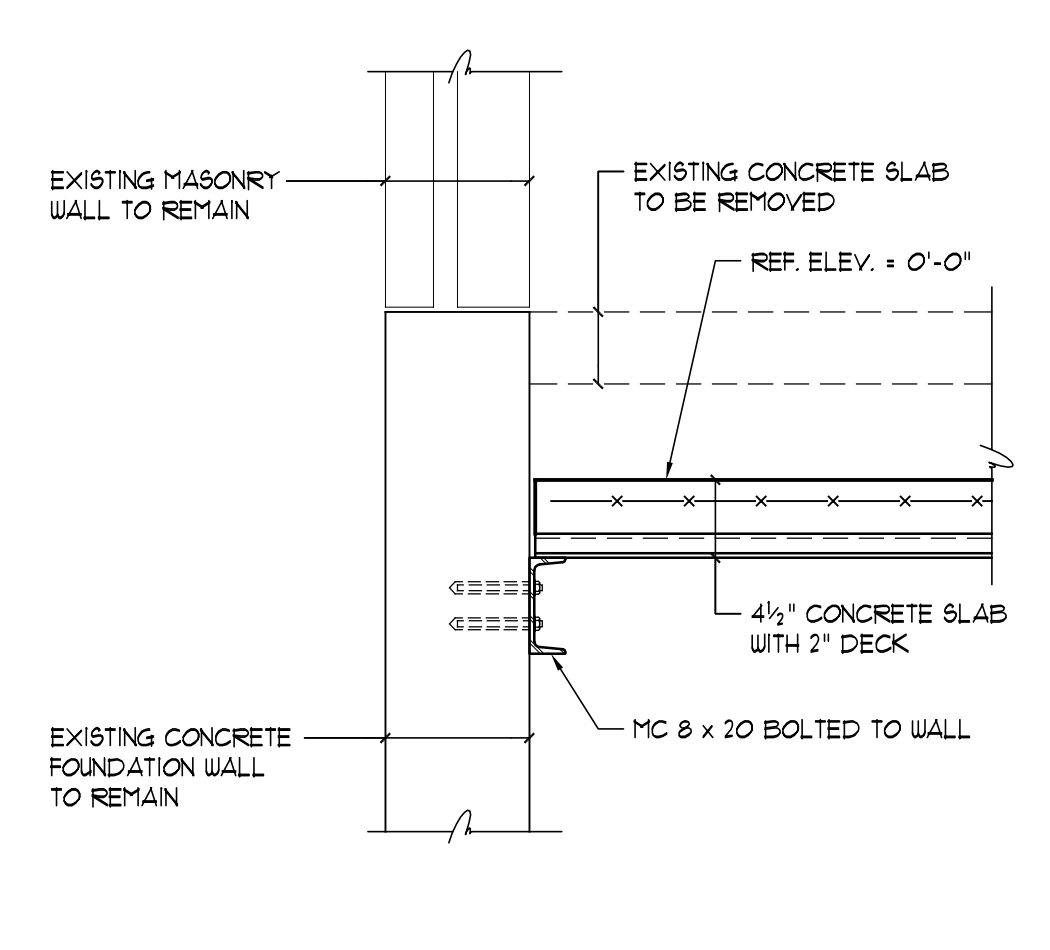
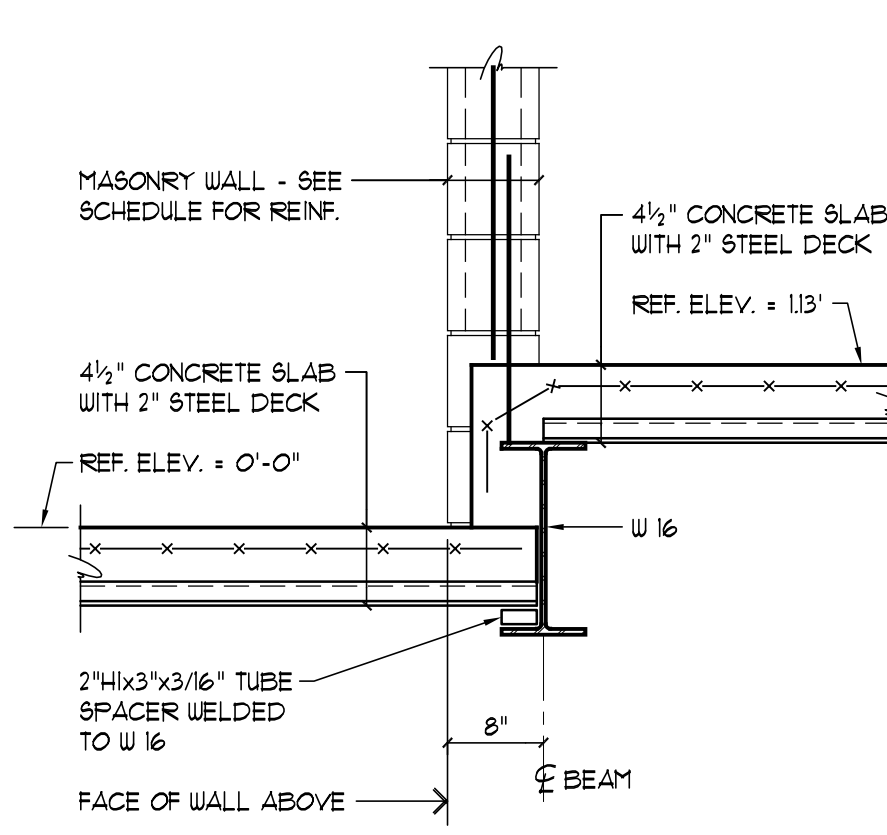
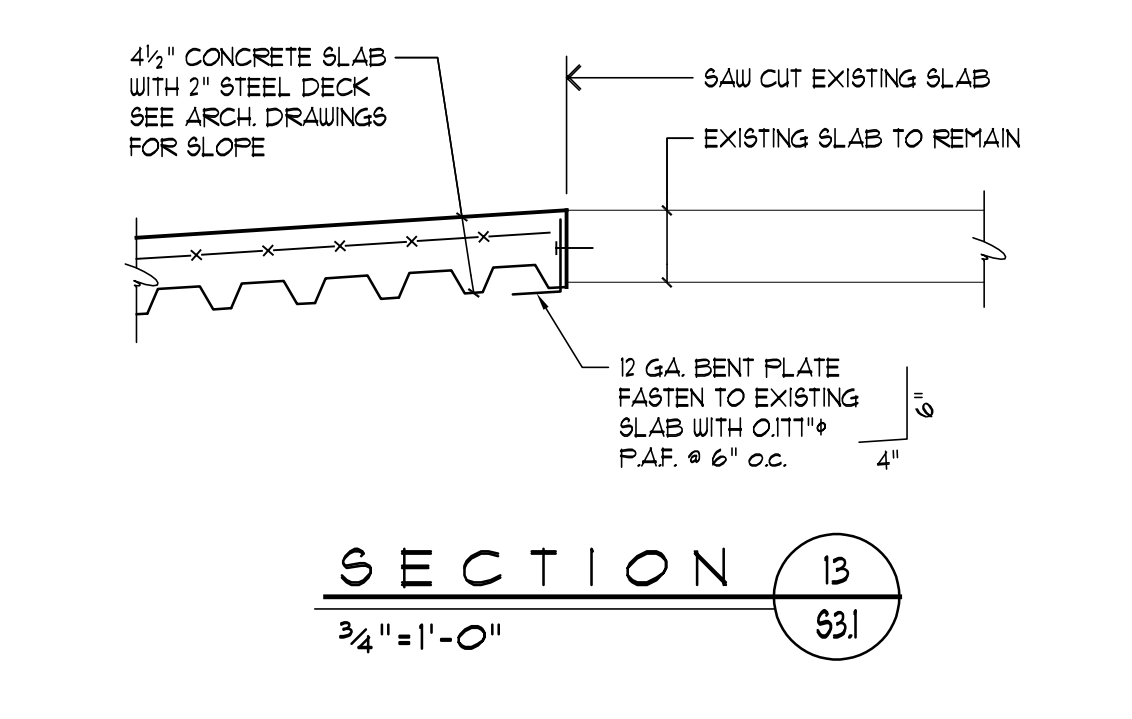
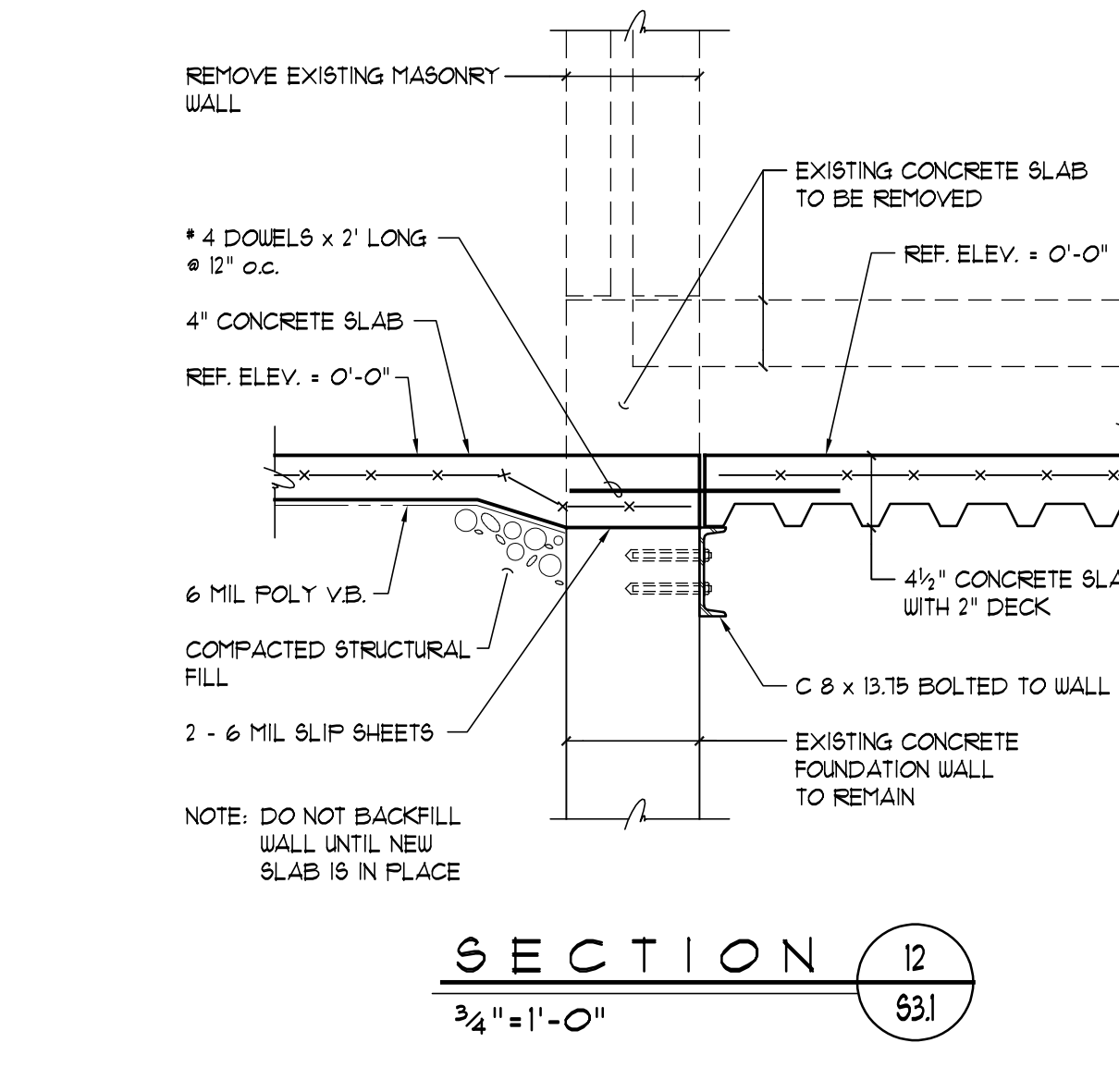
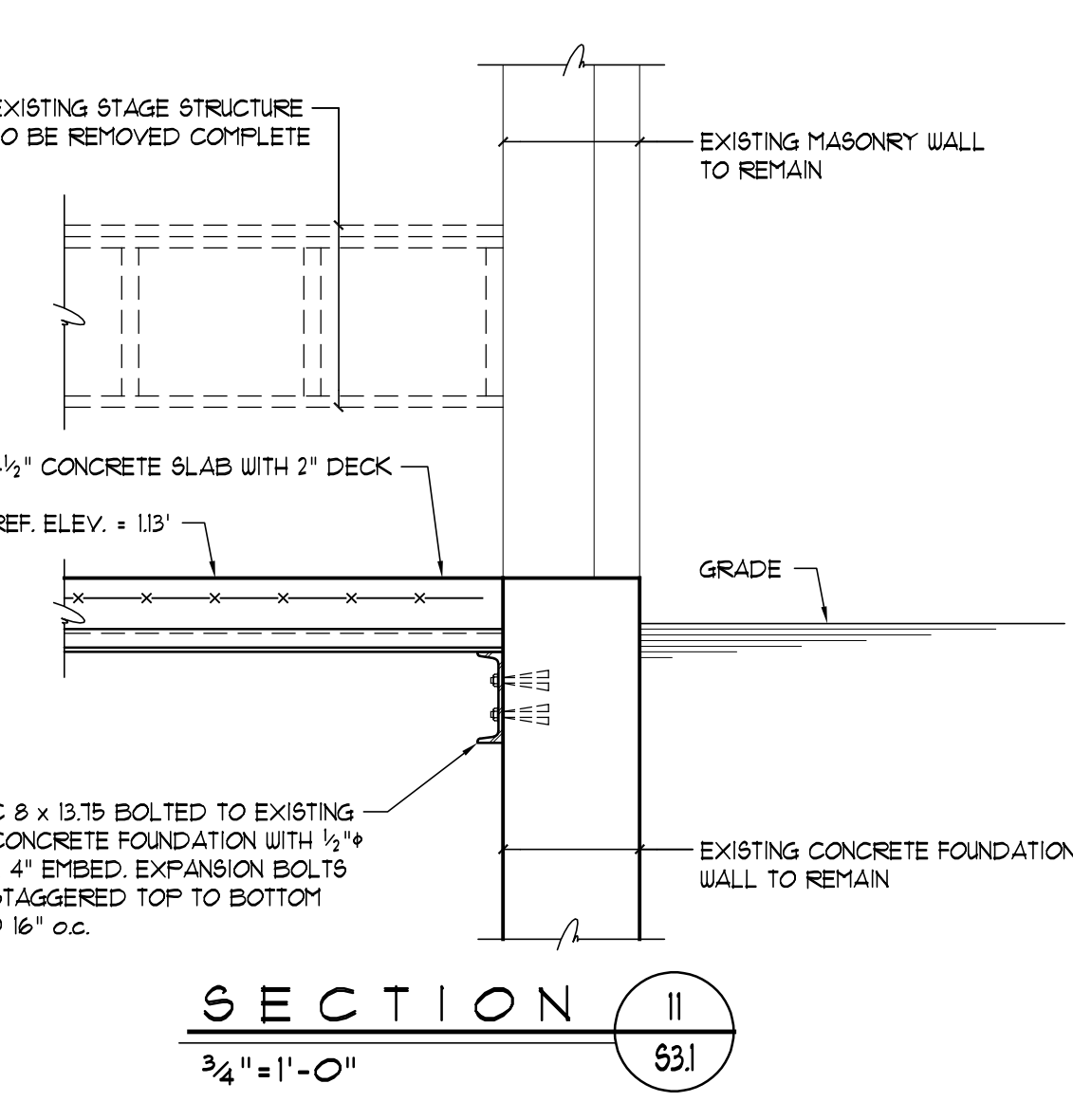
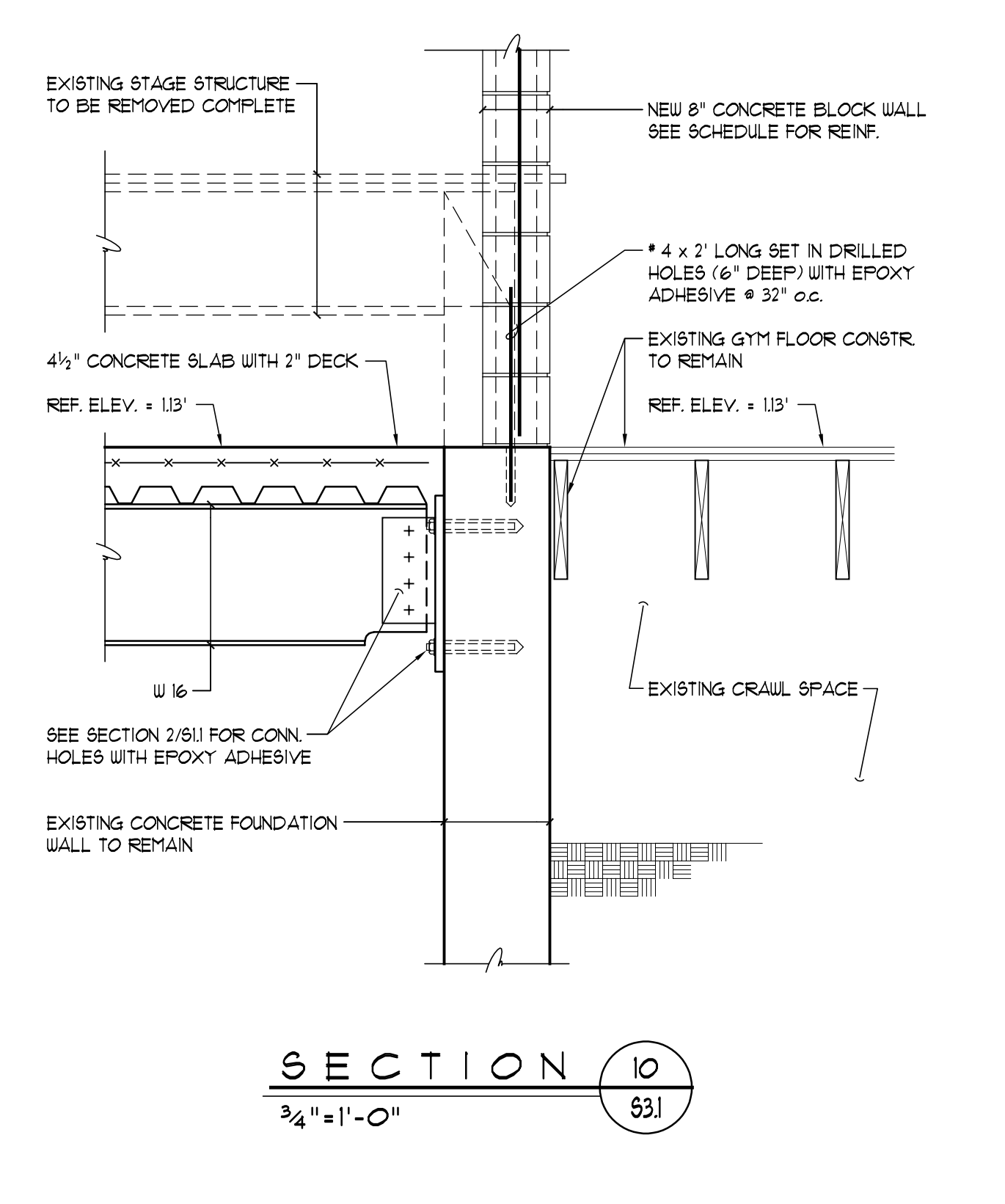
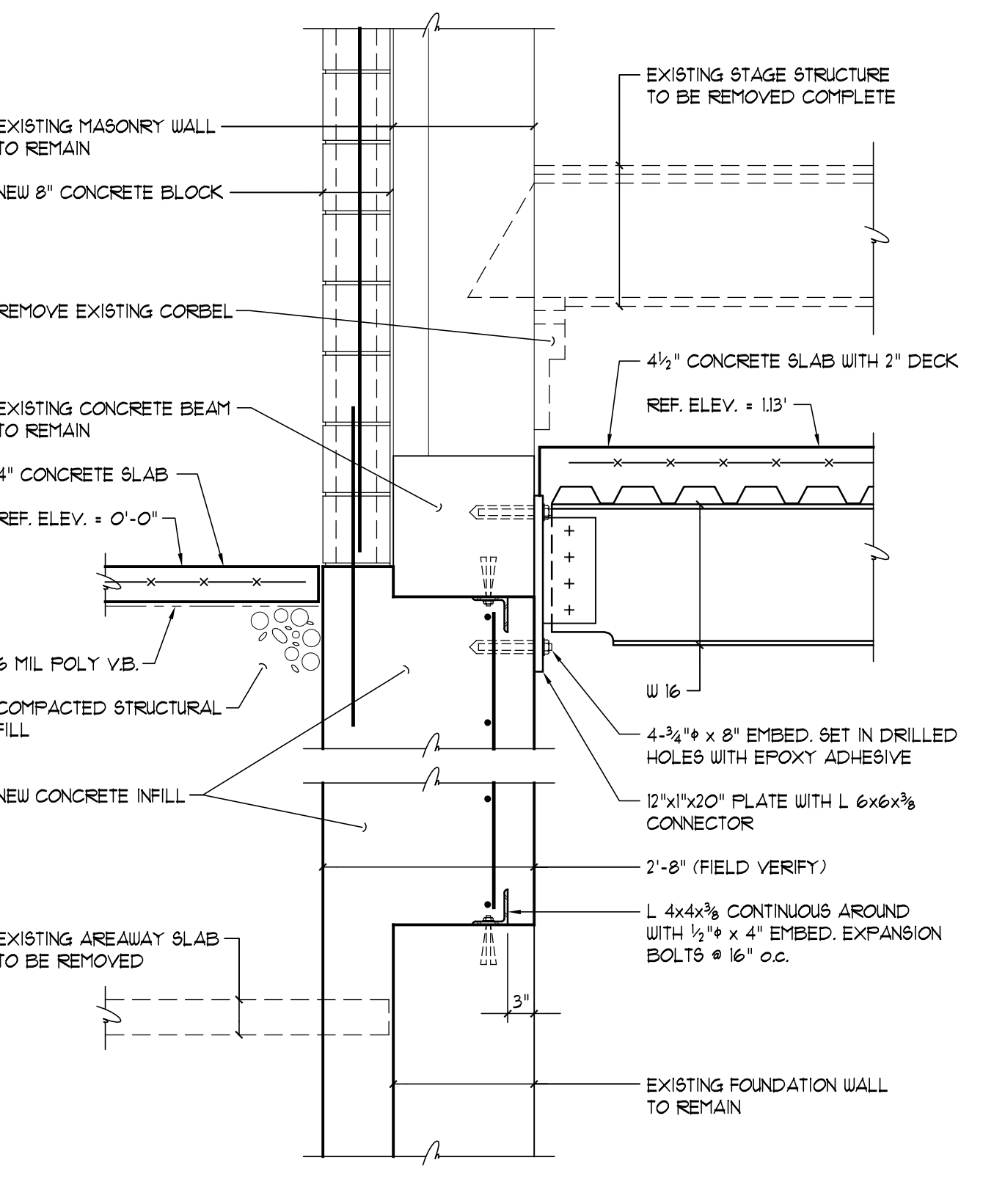
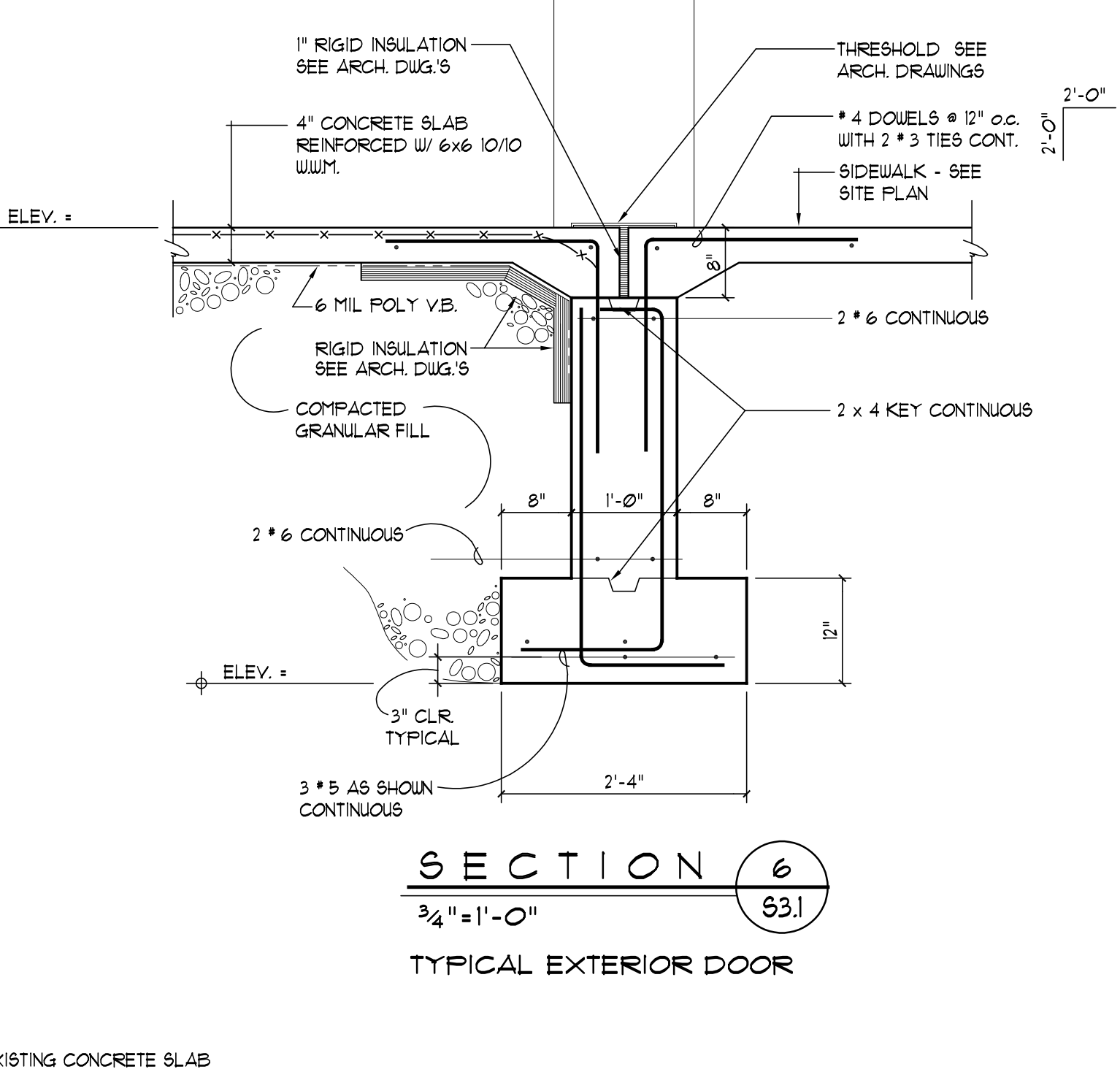
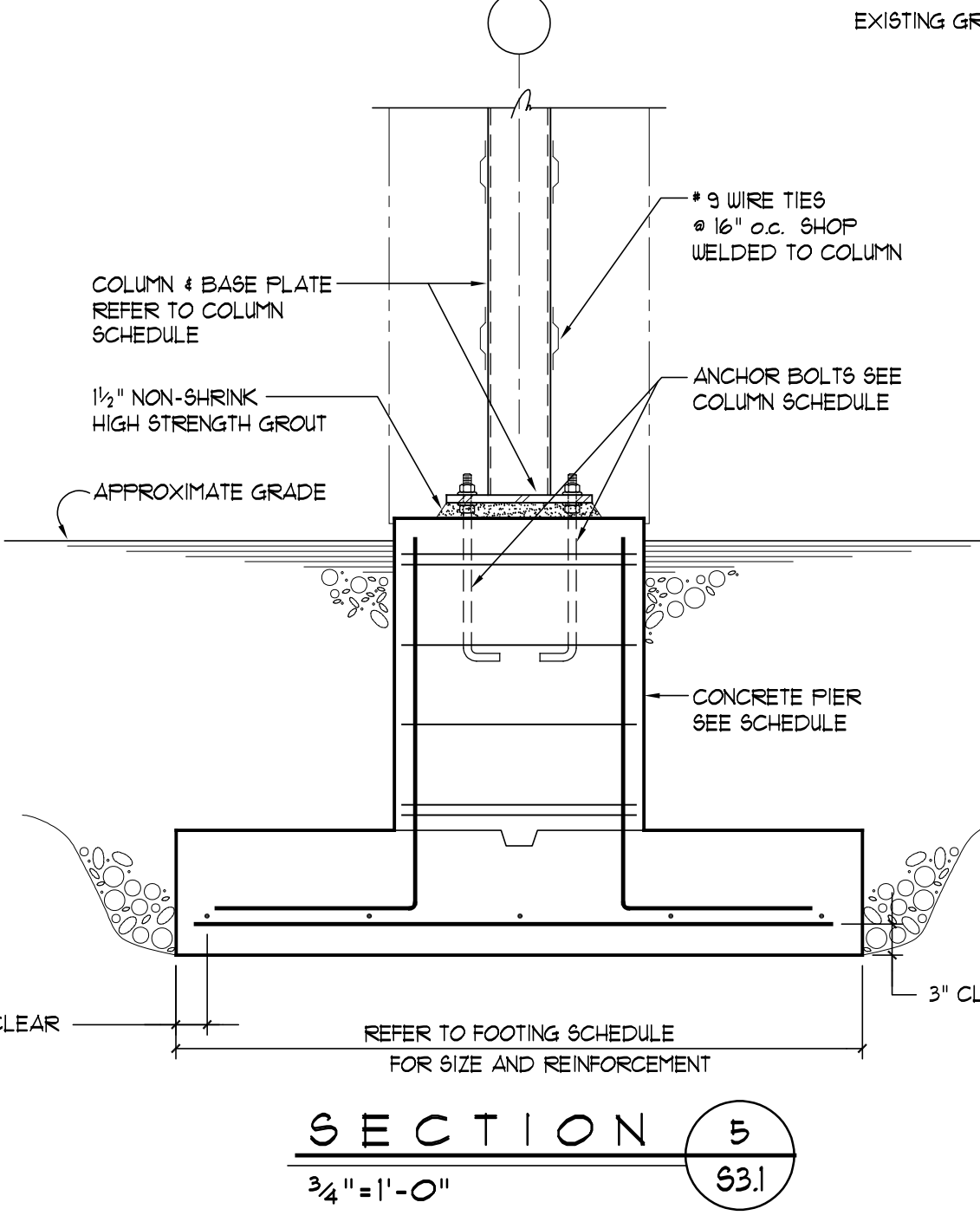
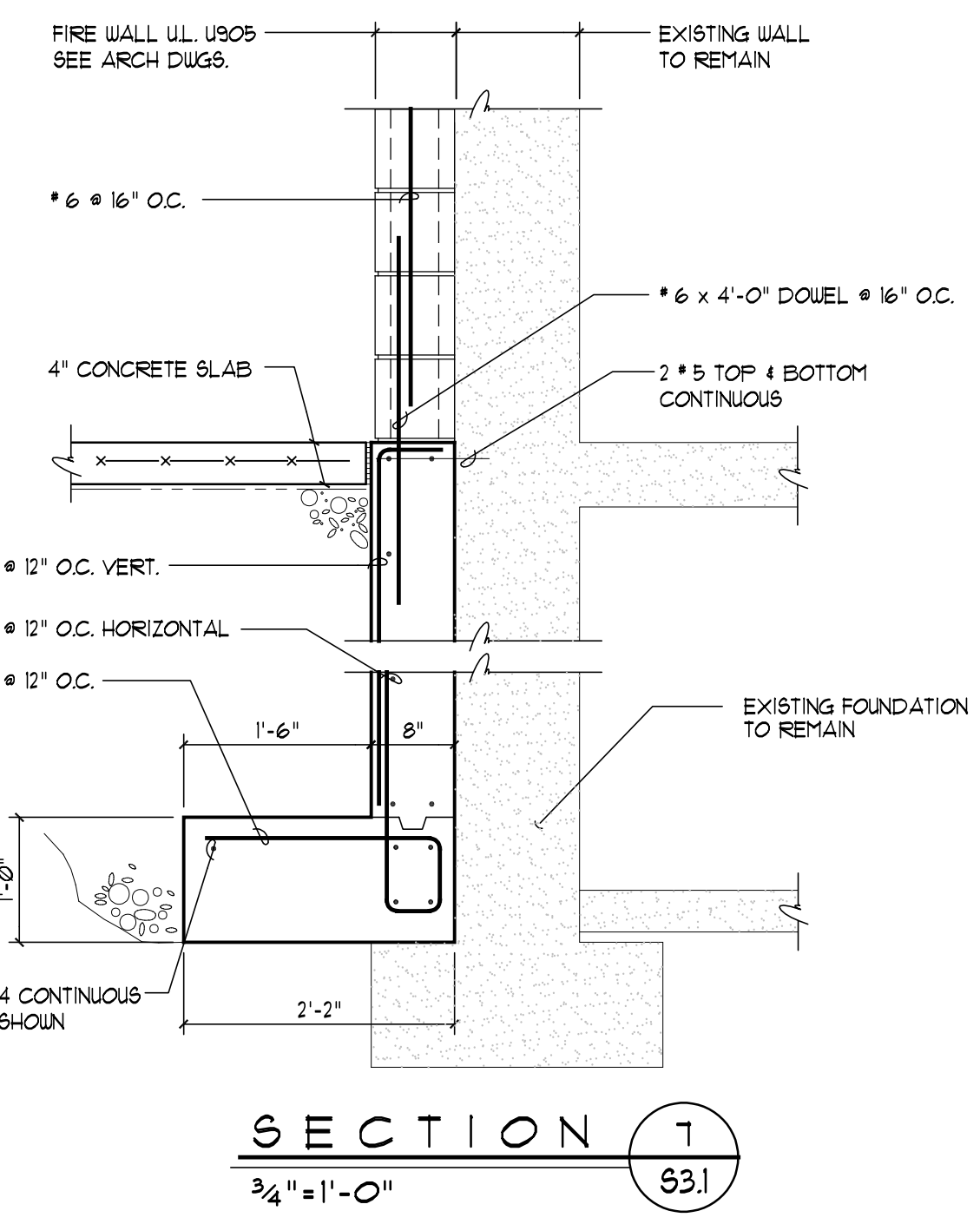
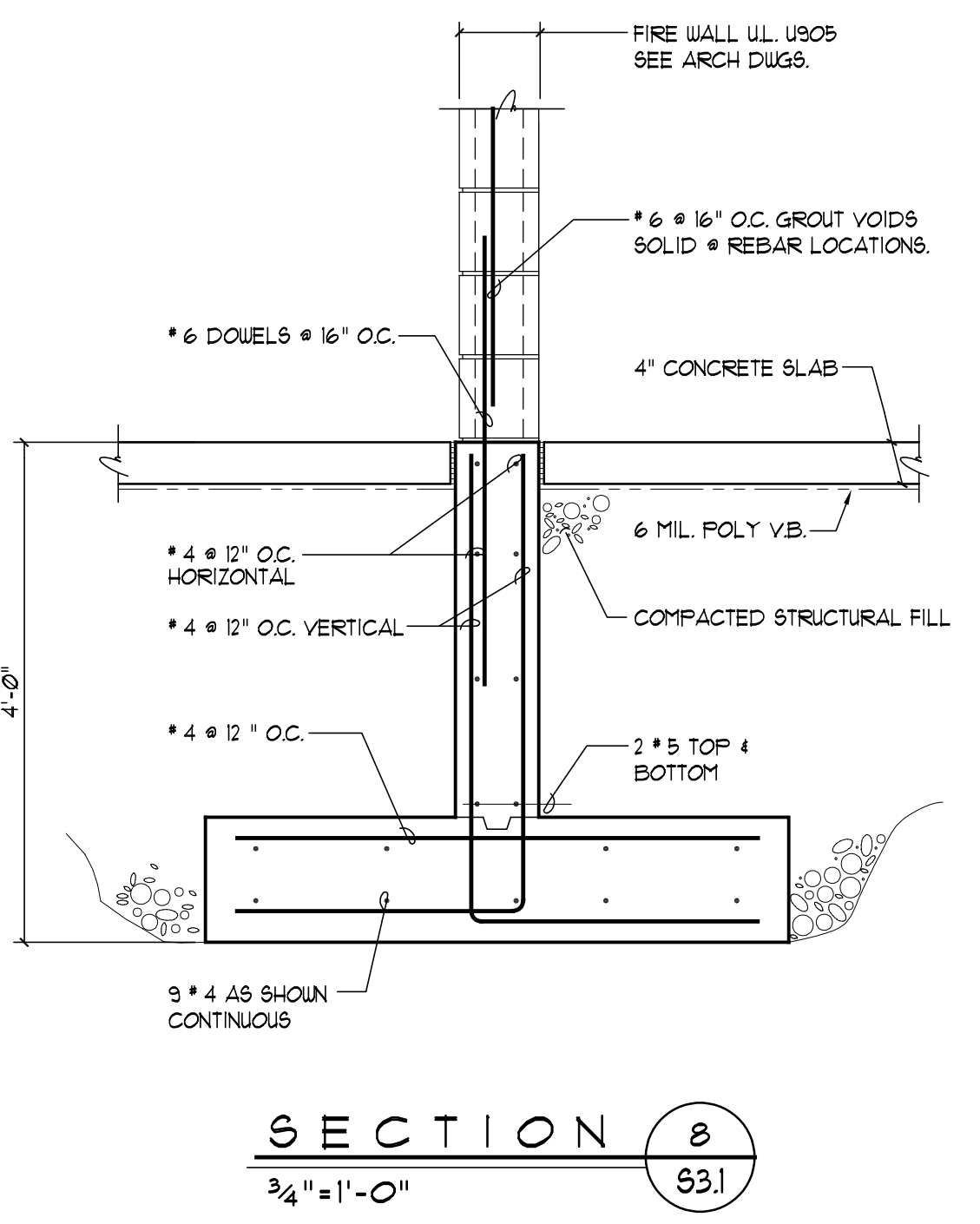
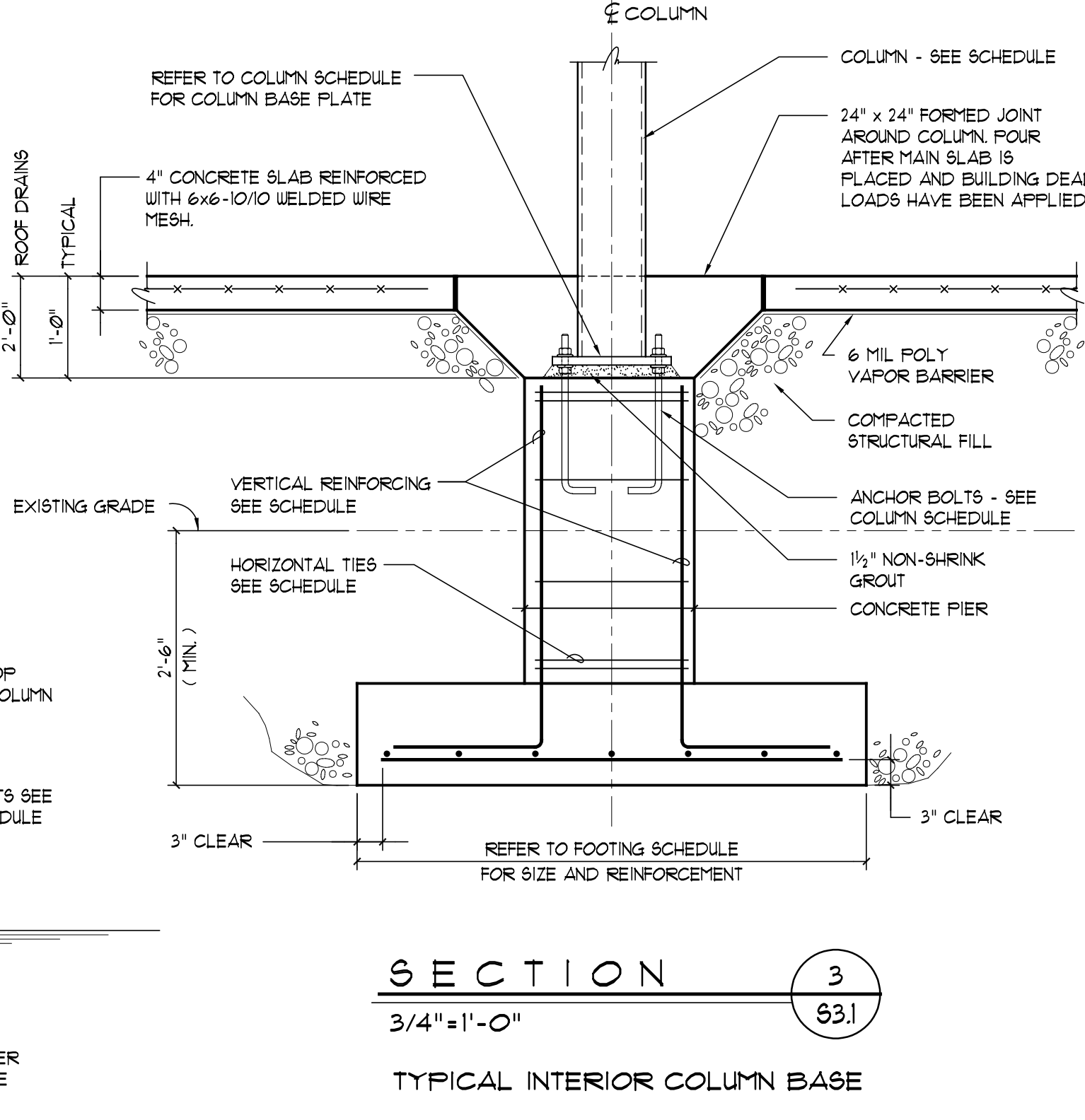
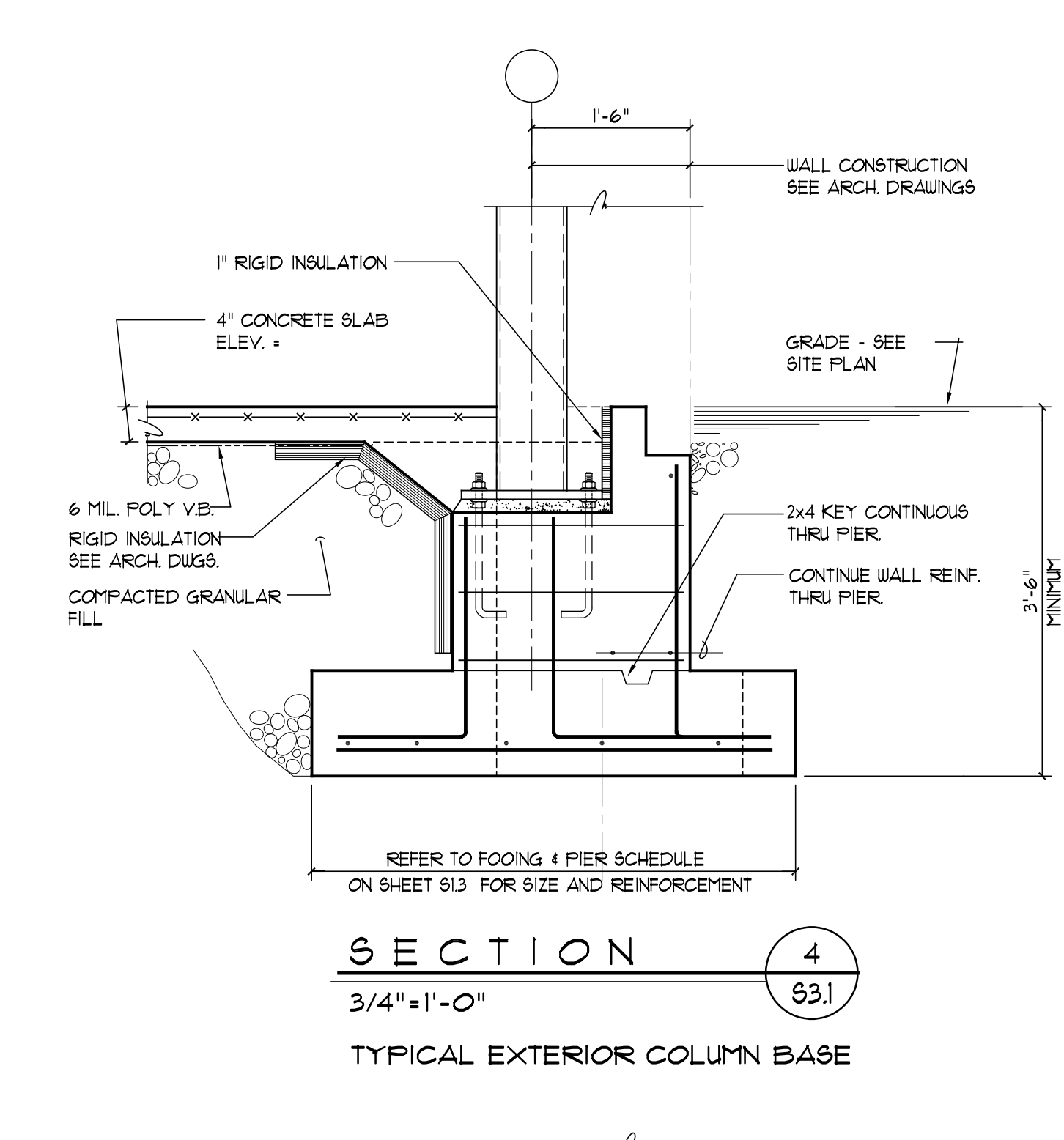
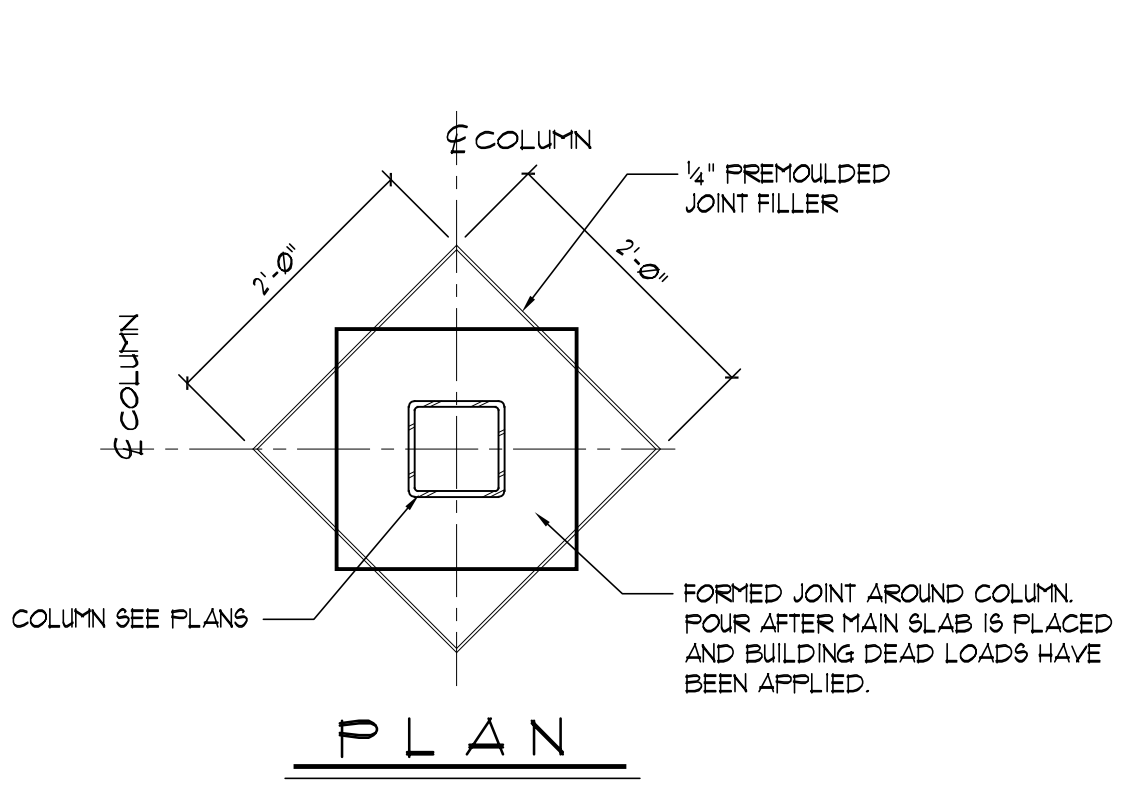
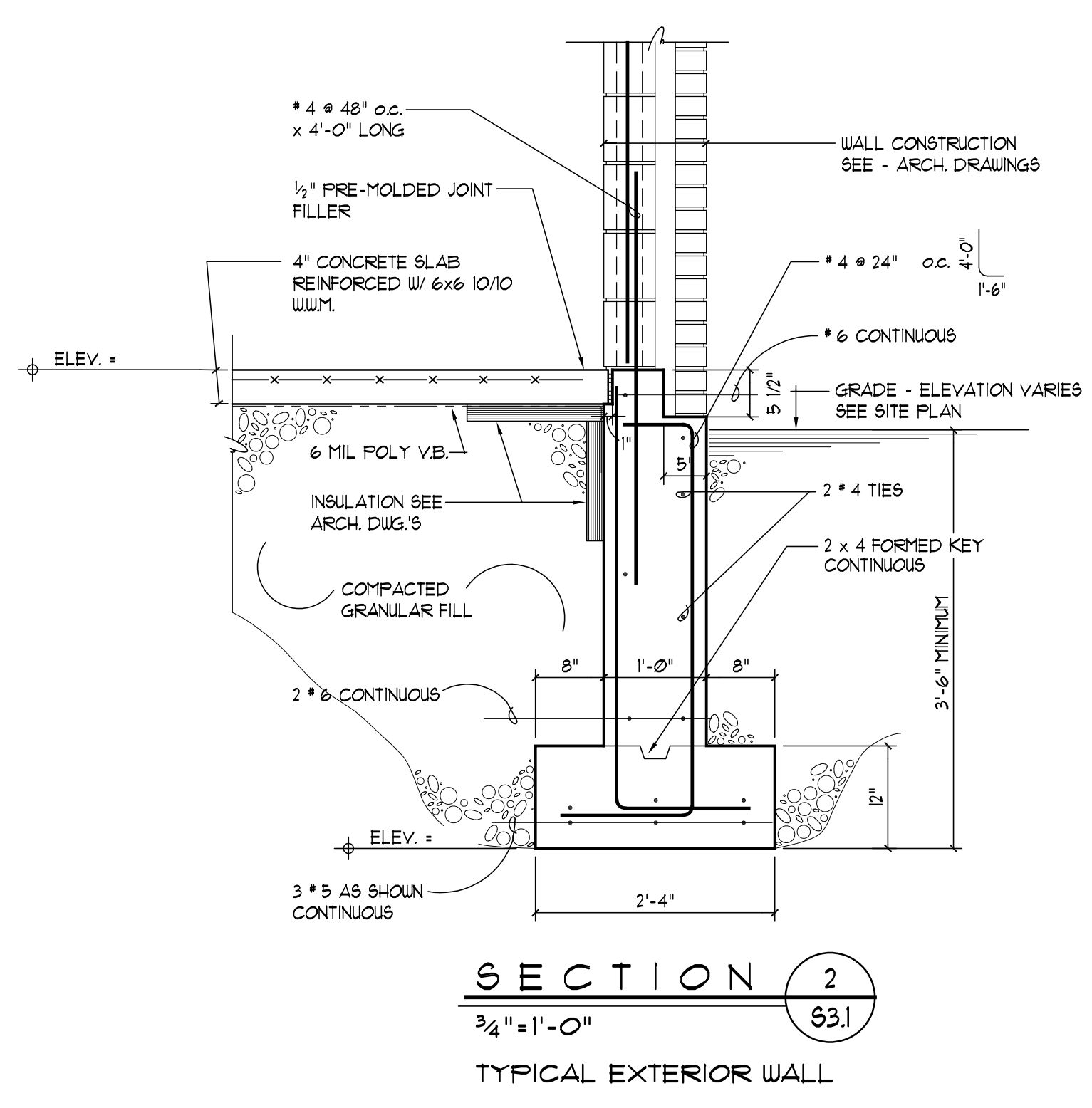
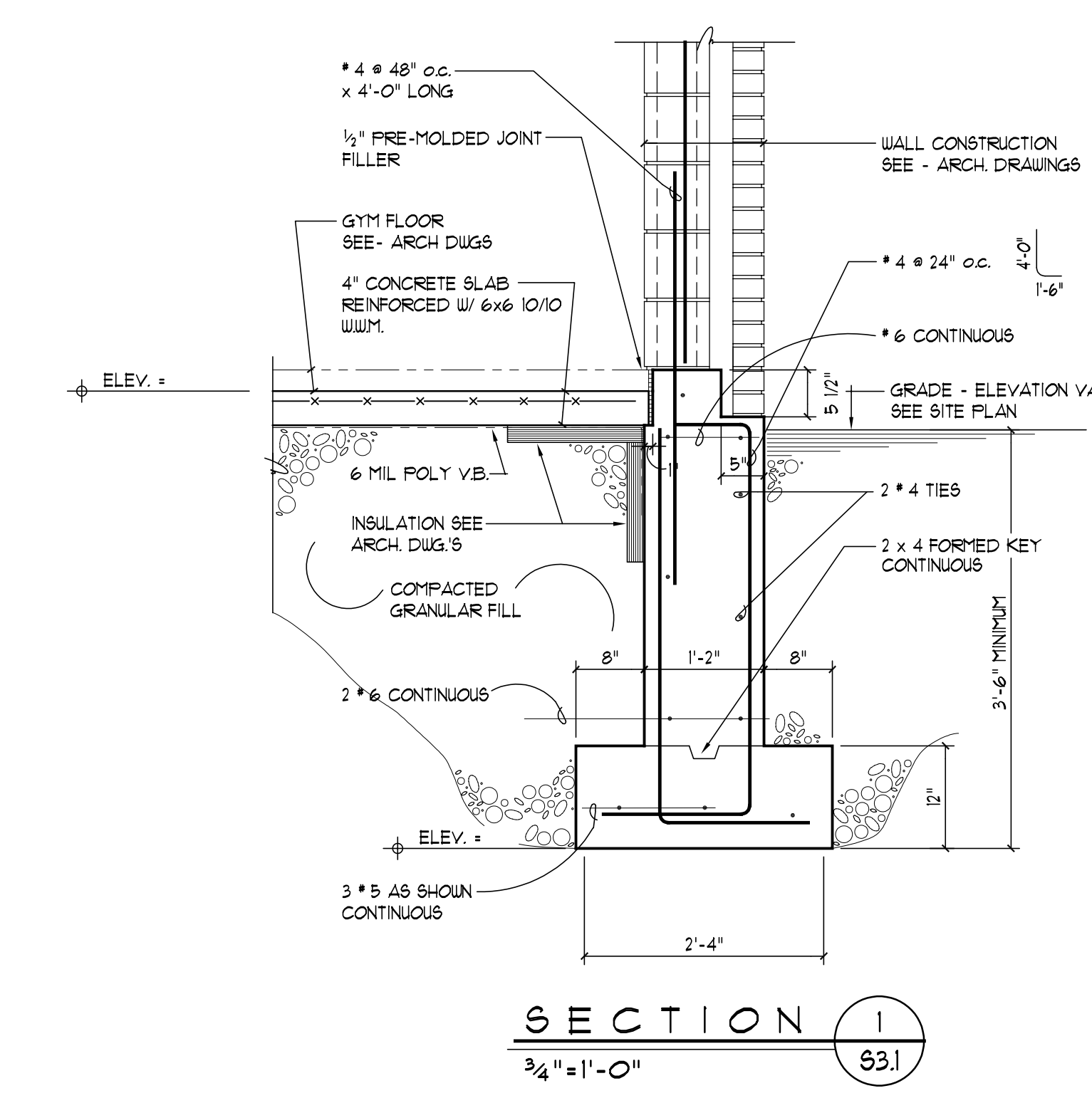
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01	BID ISSUE	4-30-99

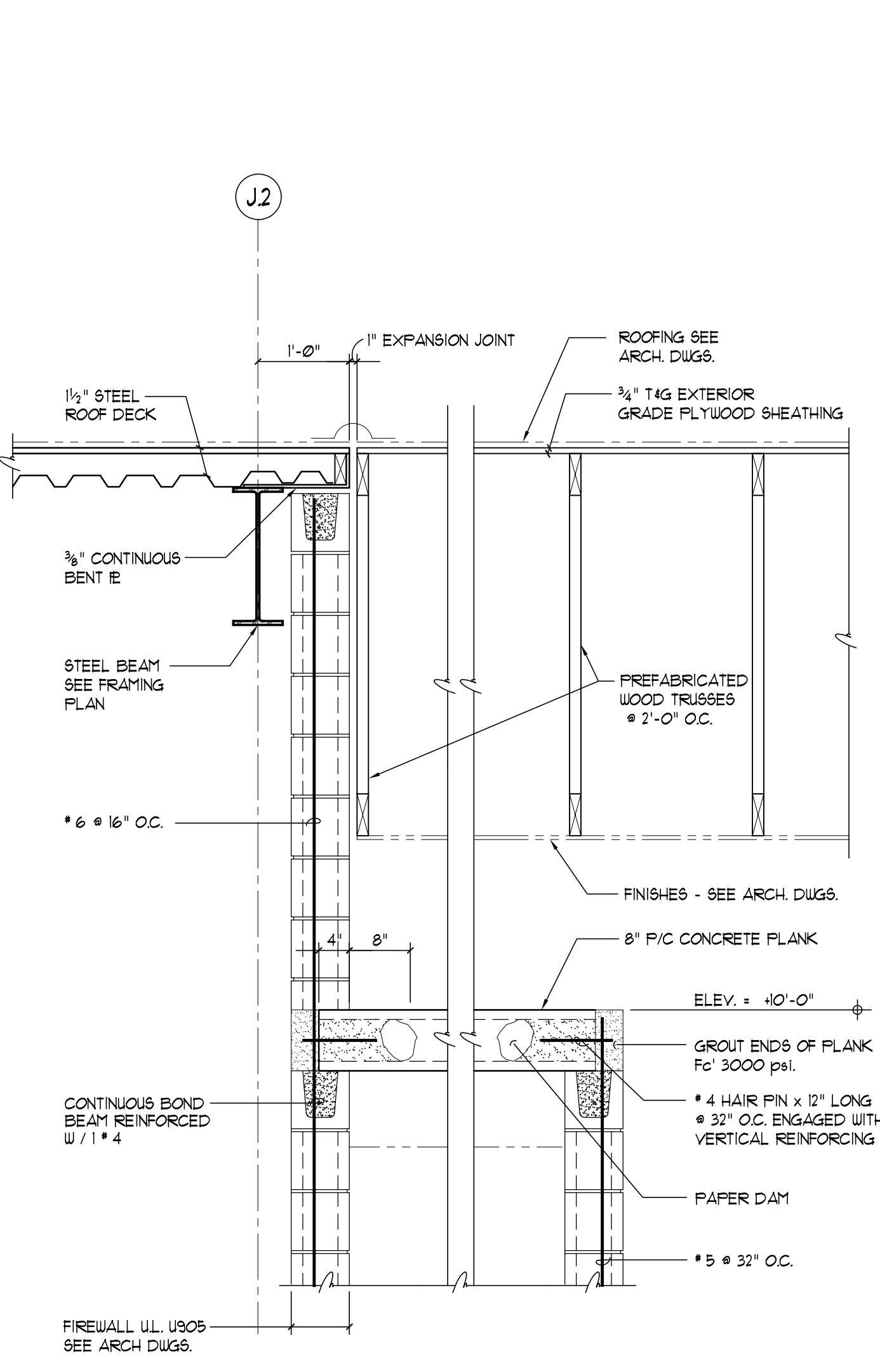
FOUNDATION SECTIONS

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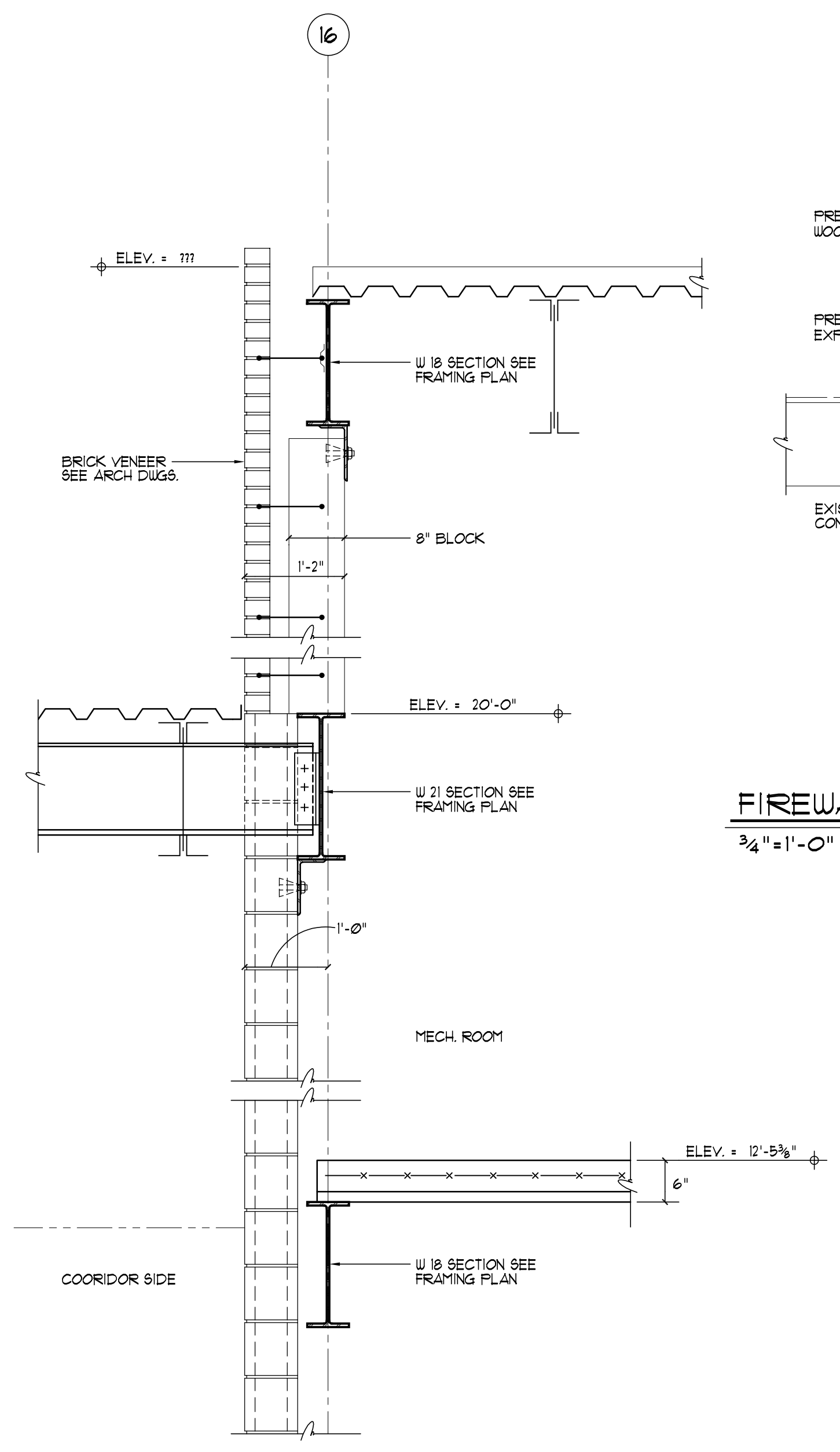
Hebron Elementary School
 Hebron, Connecticut

Additions and Renovations
 State Project Number #067-029-EA

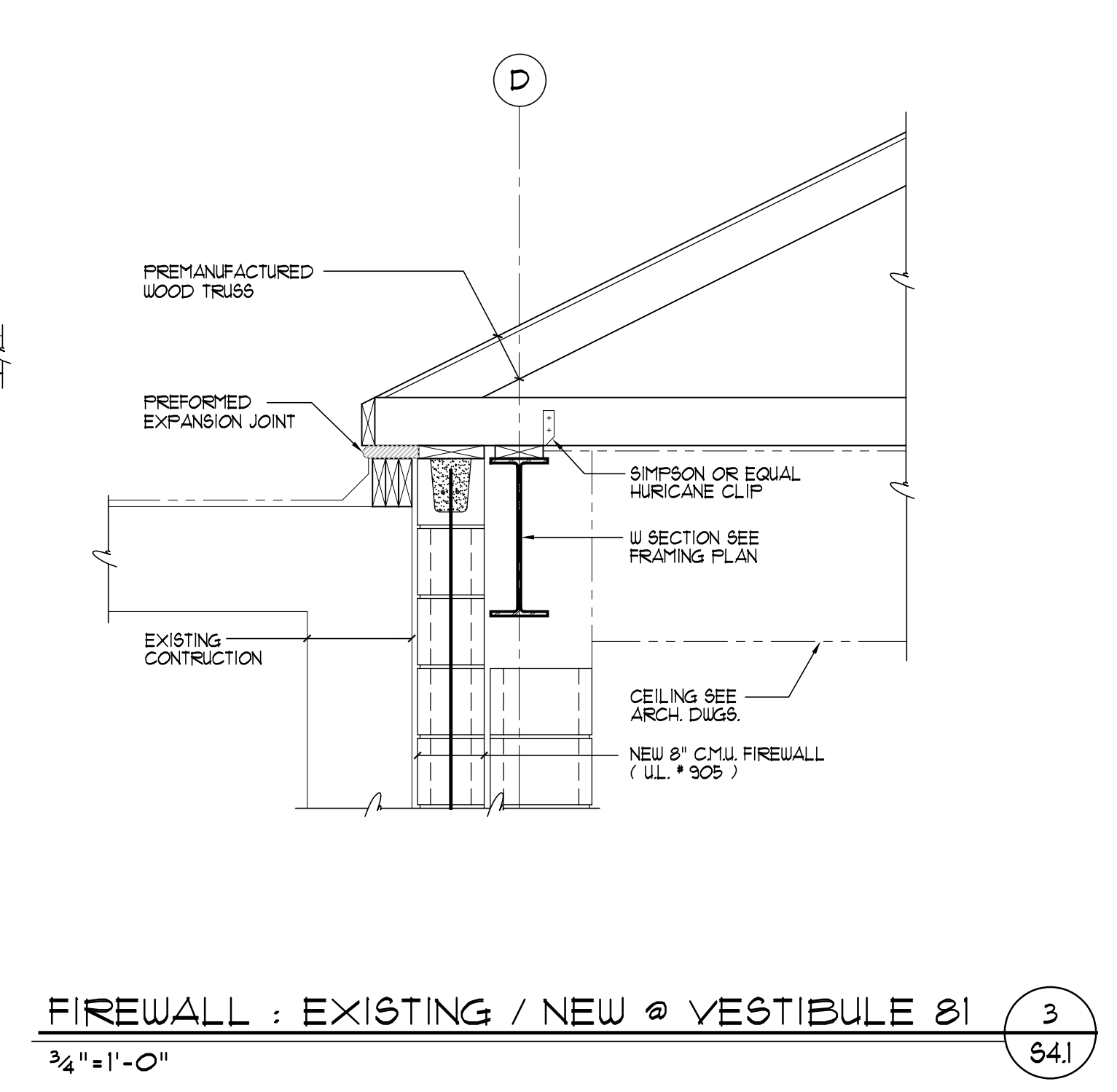
S3.1



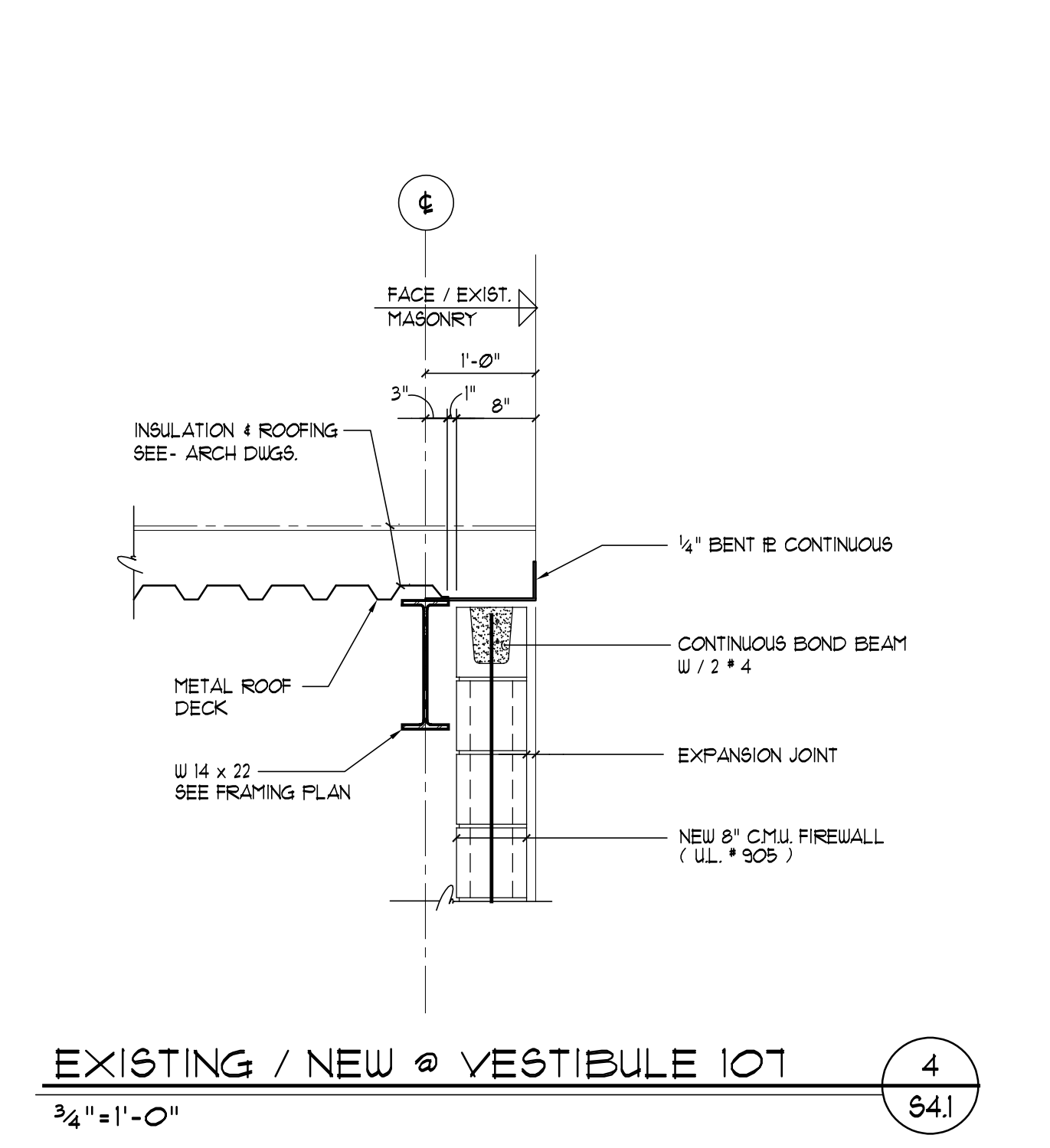
WALL SECTION THRU CORRIDOR 1
3/4" = 1'-0" S4.1



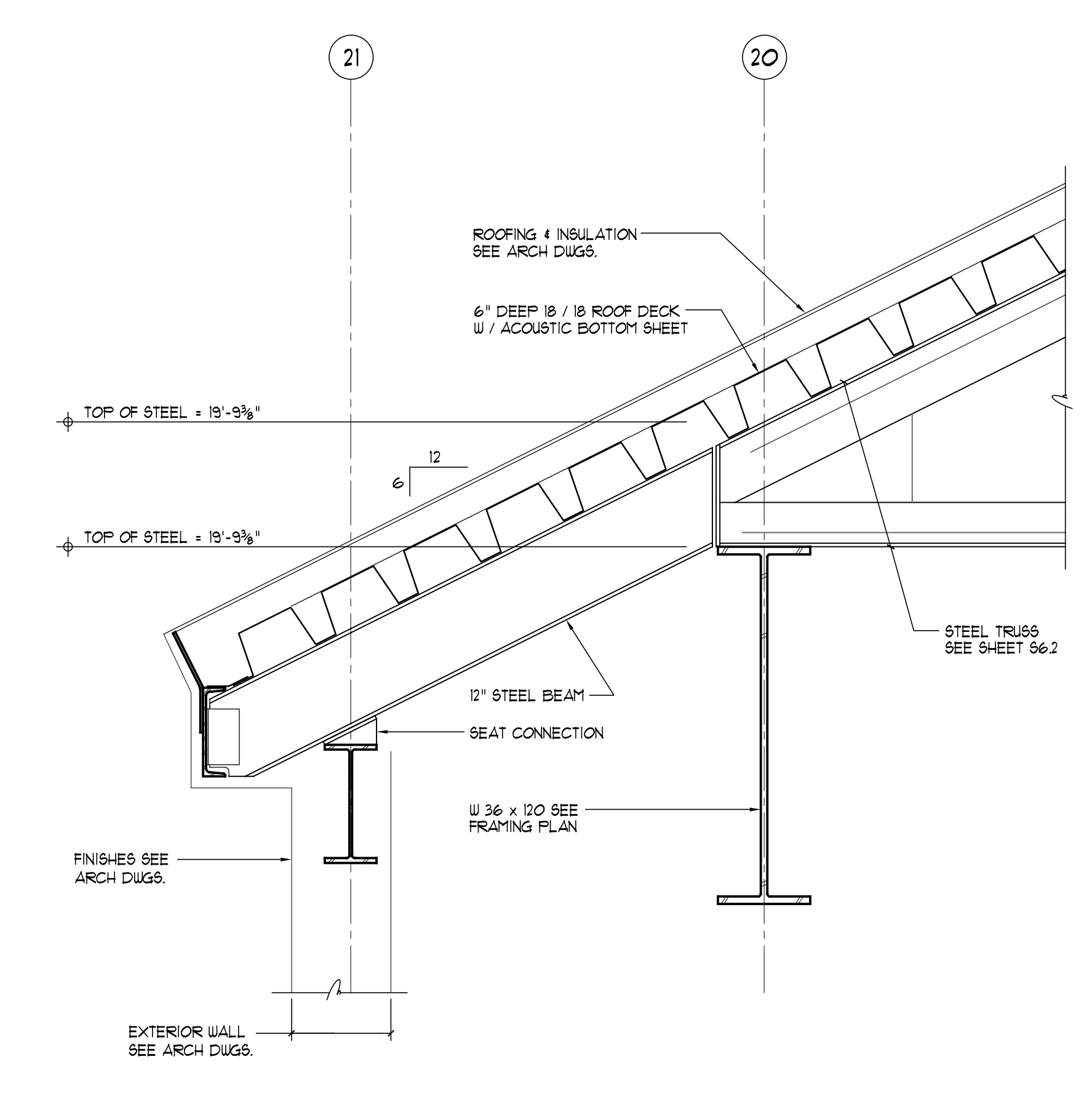
WALL SECTION THRU CORRIDOR 2
3/4" = 1'-0" S4.1



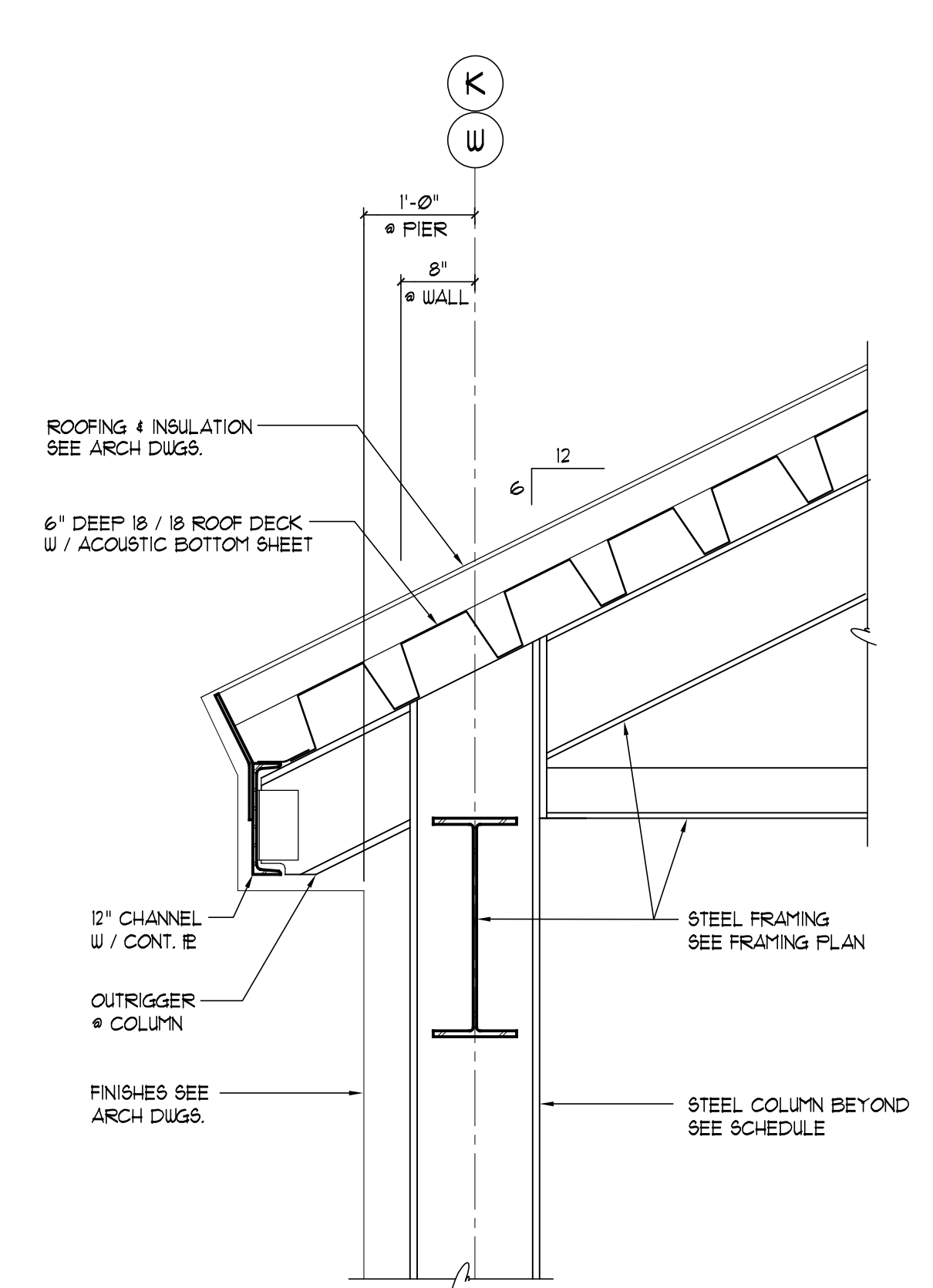
FIREWALL: EXISTING / NEW @ VESTIBULE 2
3/4" = 1'-0" S4.1



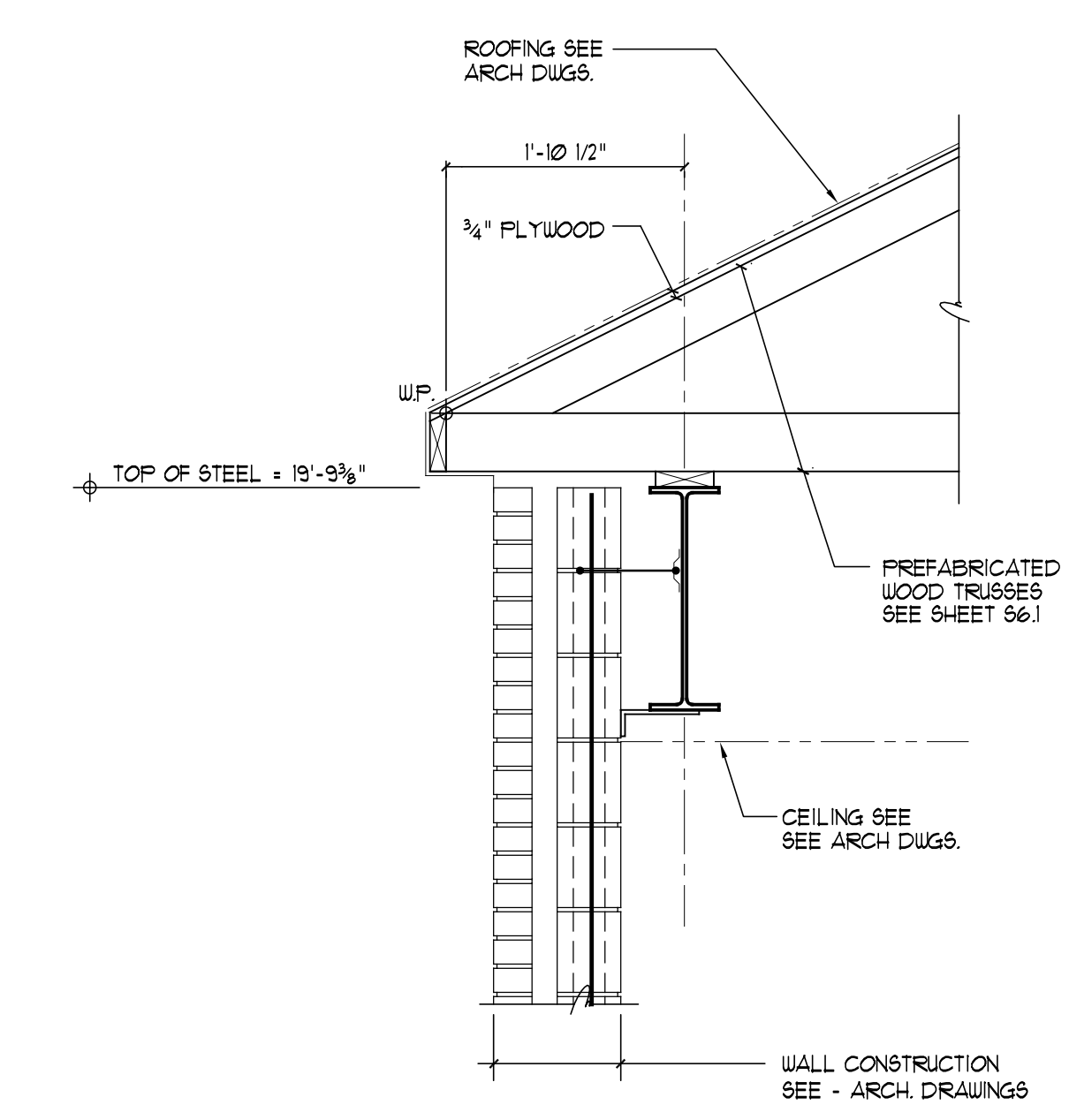
EXISTING / NEW @ VESTIBULE 10
3/4" = 1'-0" S4.1



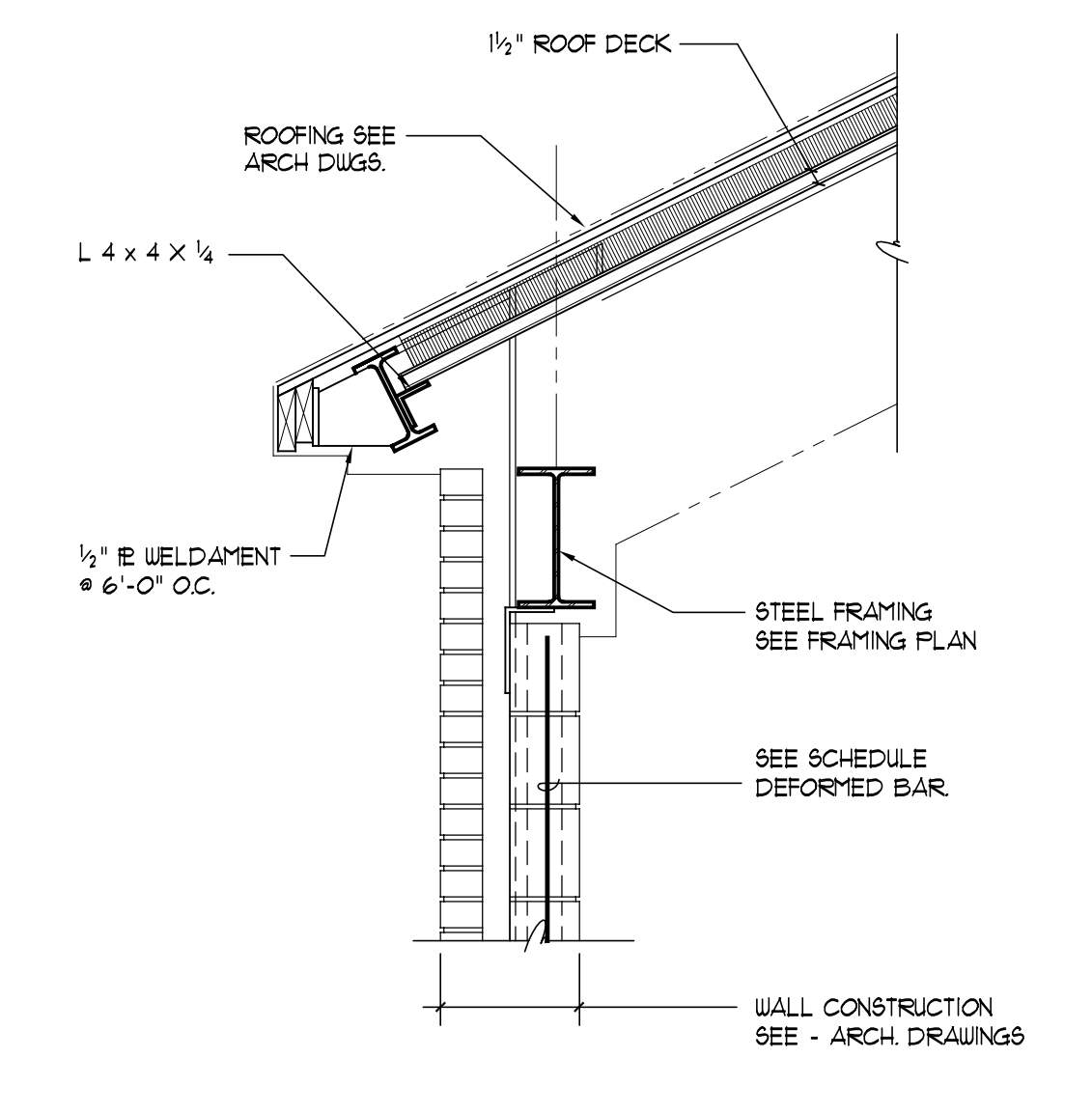
TYPICAL SECTION @ GIRDER 5
3/4" = 1'-0" S4.1



TYPICAL EAVE SECTION 6
3/4" = 1'-0" S4.1



WALL SECTION 7
3/4" = 1'-0" S4.1



WALL SECTION 8
3/4" = 1'-0" S4.1

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FRAMING SECTIONS
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Date: 12-1-98 Checked By: MG

Hebron
Elementary School
Hebron, Connecticut

Additions and
Renovations

State Project Number
#067-029-EA

COLUMN SCHEDULE

COLUMN NUMBER	(A-2)	(A-4)	(A-6)	(A-8)	(A-11)	(A-13)	(A-15)	(B-1)	(B-6)	(C-1)	(C-6)	(C-11)	(C-16)	(D-1)	(D-3)	(D-5)	(D-6)	(D-1)	(D-9)	(D-10)	(D-11)	(D-12)	(D-14)	(D-16)	(E-11)	(E-11)	(E-15)	
TOP OF STEEL AUDITORIUM/GYMNASIUM ELEVATION + 19'-9 3/4"																												
TOP OF STEEL LOW ROOF ELEVATION + 11'-9 3/4"																												
TOP OF CONCRETE SLAB REFERENCE ELEV. + 0'-0"																												
BASE PLATE	10 x 1/2 x 10	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	10 x 1/2 x 10	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	10 x 1/2 x 10	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	10 x 1/2 x 10	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	
PLAN DETAIL	P1	P2	P3	P2	P3	P2	P1	P1 SIM.	P1 SIM.	P4	P5	P5	P4 SIM.	P6	P7	P7	P7	P8	P8 SIM.	P8	P8	P10	P10 SIM.	P11	P1 SIM.	-	-	

COLUMN SCHEDULE

COLUMN NUMBER	(F-12)	(F-14)	(G-10)	(G-11)	(H-12)	(H-14)	(H-16)	(H-14)	(J-10)	(J-11)	(J-15)	(J-14)	(J-16)	(K-5)	(K-16)	(K-15)	(K-20)	(K-21)	(L-10)	(L-11)	(L-14)	(M-5)	(M-20)	(M-21)	(N-10)	(N-11)	(P-4)	
TOP OF STEEL AUDITORIUM/GYMNASIUM ELEVATION + 19'-9 3/4"																												
TOP OF STEEL LOW ROOF ELEVATION + 11'-9 3/4"																												
TOP OF CONCRETE SLAB REFERENCE ELEV. + 0'-0"																												
BASE PLATE	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	12 x 3/4 x 12	12 x 3/4 x 12	12 x 3/4 x 12	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	10 x 1/2 x 10	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	
PLAN DETAIL	P12	P12 SIM.	P2 SIM.	P2 SIM.	P12	P13	P14 SIM.	P14	P15	P16	P17	P18	P19	P20	P21 SIM.	P21 SIM.	P22 SIM.	-	P23	P24	P25	P25 SIM.	P26	P22 SIM.	P23 SIM.	P21	P28	

COLUMN SCHEDULE

COLUMN NUMBER	(P-5)	(P-10)	(Q-1)	(R-10)	(R-12)	(S-2)	(T-14)	(T-5)	(T-10)	(T-12)	(U-5)	(U-20)	(U-21)	(V-11)	(V-11)	(V-12)	(V-14)	(W-5)	(W-16)	(W-18)	(W-20)	(W-21)	(X-11)	(X-14)	(X-5)	(X-11)		
TOP OF STEEL AUDITORIUM/GYMNASIUM ELEVATION + 19'-9 3/4"																												
TOP OF STEEL LOW ROOF ELEVATION + 11'-9 3/4"																												
TOP OF CONCRETE SLAB REFERENCE ELEV. + 0'-0"																												
BASE PLATE	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	12 x 3/4 x 14	-	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	10 x 1/2 x 10	12 x 3/4 x 12	12 x 3/4 x 12	12 x 3/4 x 12	12 x 3/4 x 12		
PLAN DETAIL	P29	P30	P31	P32	P25	P31	P28	P29	P30	P25	P25 SIM.	P26 SIM.	P22 SIM.	P33	-	P25	P25	P20	P21	P21	P22	-	P34	P35	P36	P31		

COLUMN SCHEDULE NOTES

- WIDE FLANGE STEEL TO BE A57M, A-912, GRADE 50 STEEL, Fy=50 ksi.
- COLUMN BASES TO BE SET ON LEVELING NUTS & WASHERS UNLESS NOTED OTHERWISE.
- COLUMN BASES TO HAVE 4-1/2" ANCHOR BOLTS 1-6" LONG & 3" HOOK TYPICAL UNLESS NOTED OTHERWISE.
- COLUMN BASES TO BE DRY PACKED SOLID UNDER BASE PLATES WITH 1/2" MINIMUM 5000 P.S.I. NON-SHRINK GROUT AFTER STEEL HAS BEEN PLUMBED AND LEVELED.
- DIMENSIONS GIVEN ARE TO BOTTOM OF BASE PLATE OR TOP OF CAP PLATE.
- ERECTION TOLERANCES OF ALL COLUMNS AND FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH ALL AISC STANDARDS.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY LATERAL SUPPORT TO THE STEEL FRAME DURING CONSTRUCTION. THE TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL ALL COLUMN SPICES, FRAME MOMENT CONNECTIONS, AND CONCRETE AND STEEL DECK HAVE BEEN COMPLETELY INSTALLED AND ACCEPTED.
- PROVIDE MASONRY TIES #16 @ 16" O.C. ON ALL COLUMNS ADJACENT TO MASONRY. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
- ALL BEAM TO GIRDER, GIRDER TO GIRDER AND GIRDER TO COLUMN CONNECTIONS SHALL BE DOUBLE ANGLE TYPE.
- PROVIDE 3/16" COVER PLATES AT WIDE FLANGE COLUMNS WHEN FACE OF WEB IS EXPOSED TO INTERIOR SPACES. BEAM WELD AND GRIND FLUSH EXTEND ABOVE FINISH CEILING 2". - SEE ARCHITECTS DRAWINGS FOR LOCATIONS.
- WHEN COLUMN IS INTERRUPTED, OR SUPPORTED BY STEEL FRAMING, PROVIDE 4 - 3/8" WEB STIFFENERS IN BEAM, SOLID FROM FLANGE TO FLANGE. ALSO STIFFENERS WITH WALLS OF TUBE STEEL AND FLANGES OF WIDE FLANGE COLUMNS.



C.J. Lawler Architects
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7 Rogers Lake Trail, Old Lyme, Connecticut 06371
(860) 434-8383 FAX: (860) 434-0036

CLARK ENGINEERING
Engineering Services
P. O. Box 419, Granby, CT 06035
(860) 653-4352 FAX: (860) 653-8256

MEGSON & HEAGLE
Civil Engineers Land Surveyors
81 Rankin Road, Glastonbury, CT 06033
(860) 659-0587 FAX: (860) 657-4429

01	B I D	I S S U E	4-30-99
No.	Description		Date
Revisions			

COLUMN SCHEDULE

Scale: AS NOTED Drawn By: KA
Date: 12-1-98 Checked By: MG

Hebron
Elementary School
Hebron, Connecticut

Additions and
Renovations

State Project Number
#067-029-EA

S5.1

GIRARD & CO. ENGINEERS
 Structural Engineers
 40 Wetherfield Avenue, Hartford, Connecticut 06114
 (860) 524-5196 FAX: (860) 524-1463

M.R. ROMING ASSOCIATES
 Landscape Architects - Land Planners
 224 Whiting Lane, West Hartford, Connecticut 06119
 (860) 233-1265 FAX: (860) 523-0191

van ZELM HEYWOOD & SHADFORD INC
 Mechanical and Electrical Engineers
 29 South Main Street, West Hartford, Connecticut 06107
 (860) 521-4329 FAX: (860) 521-5620

FOOD SERVICE DESIGN
 Food Service
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 (860) 528-7101 FAX: (860) 528-8839

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No.	Description	Date
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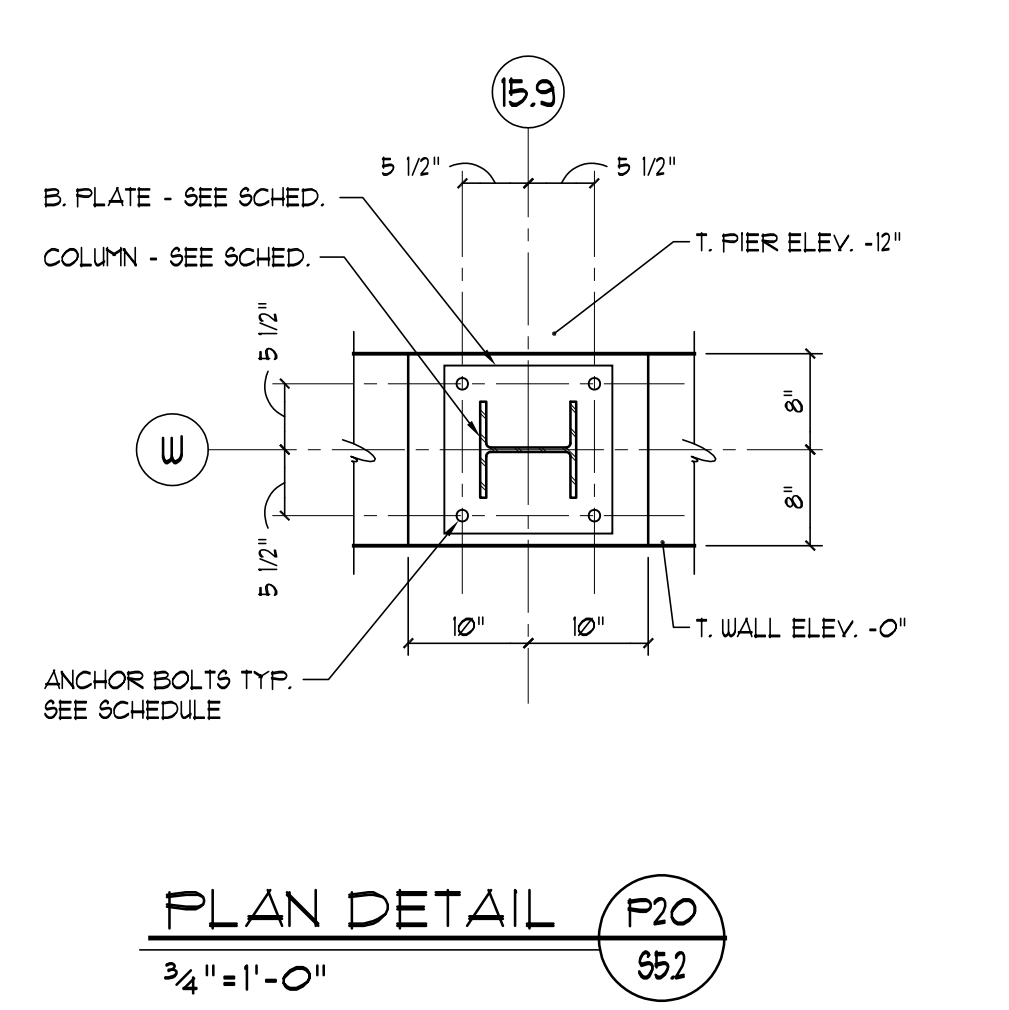
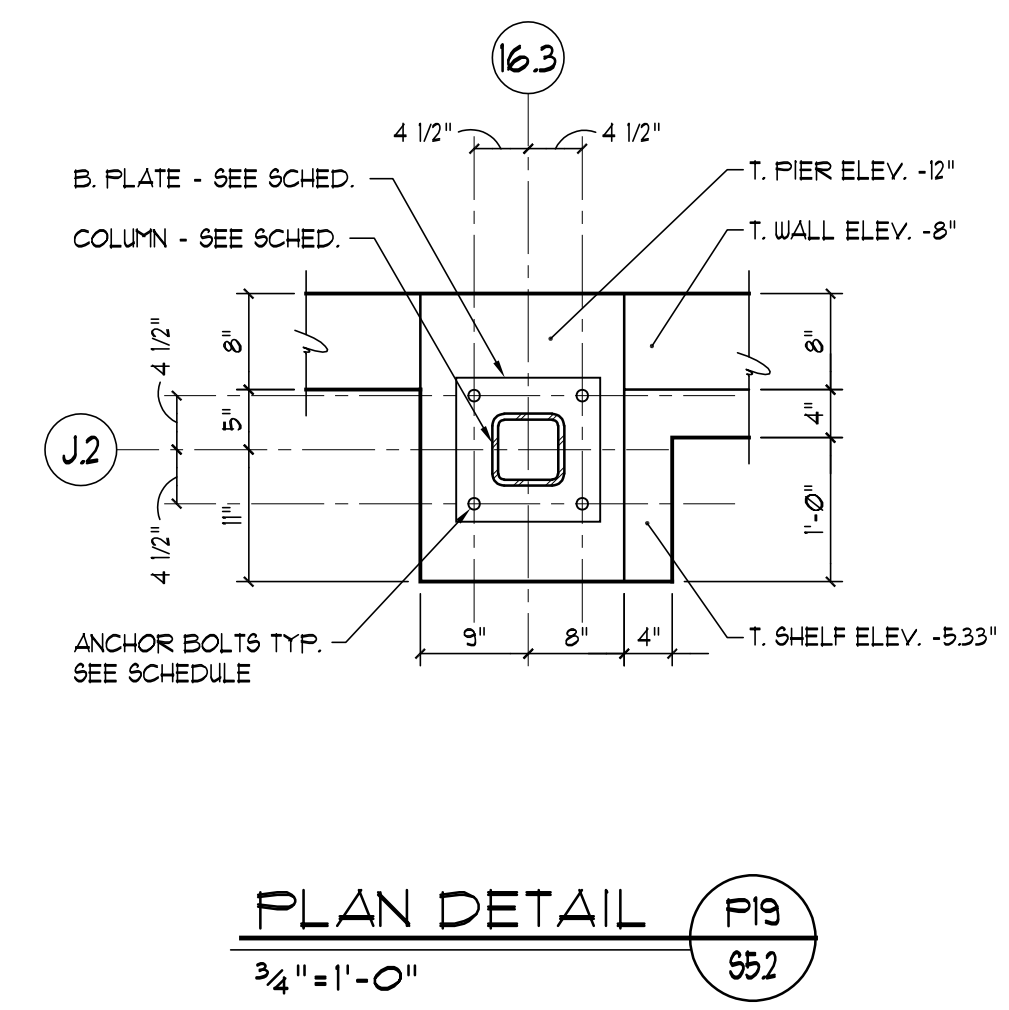
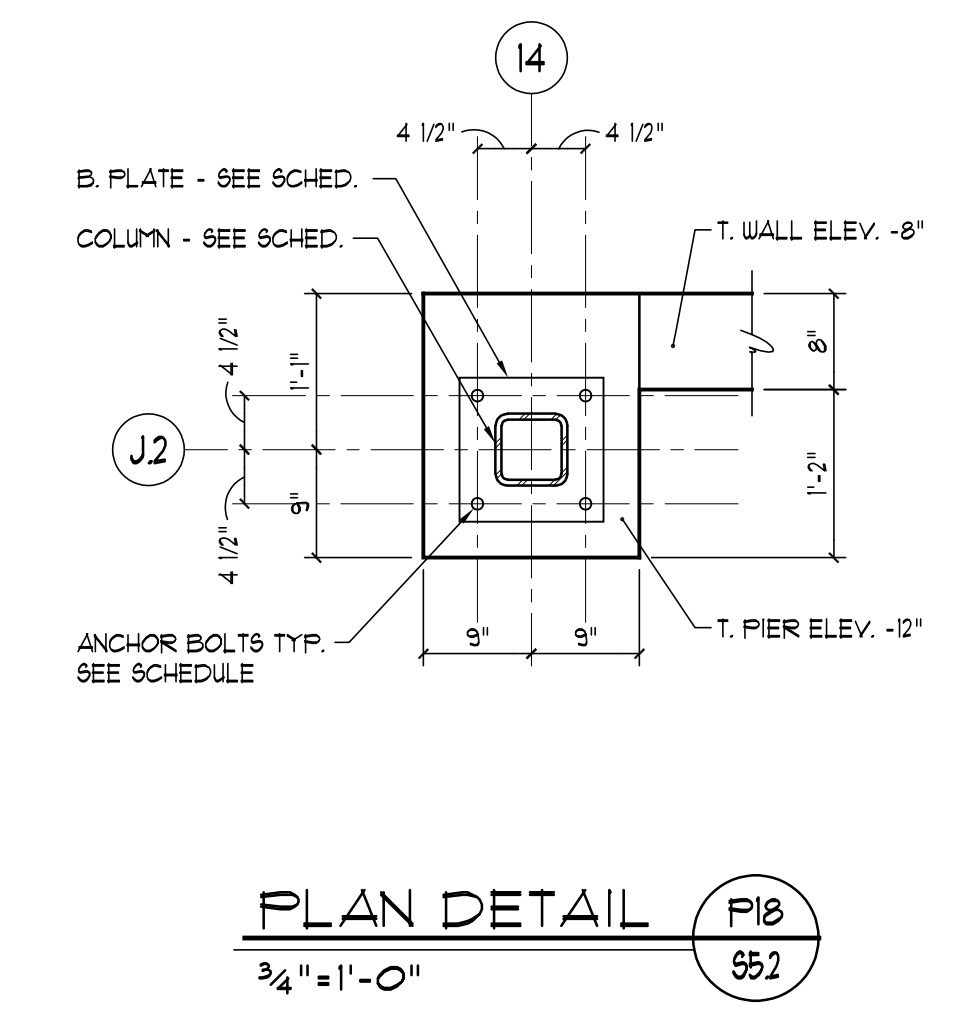
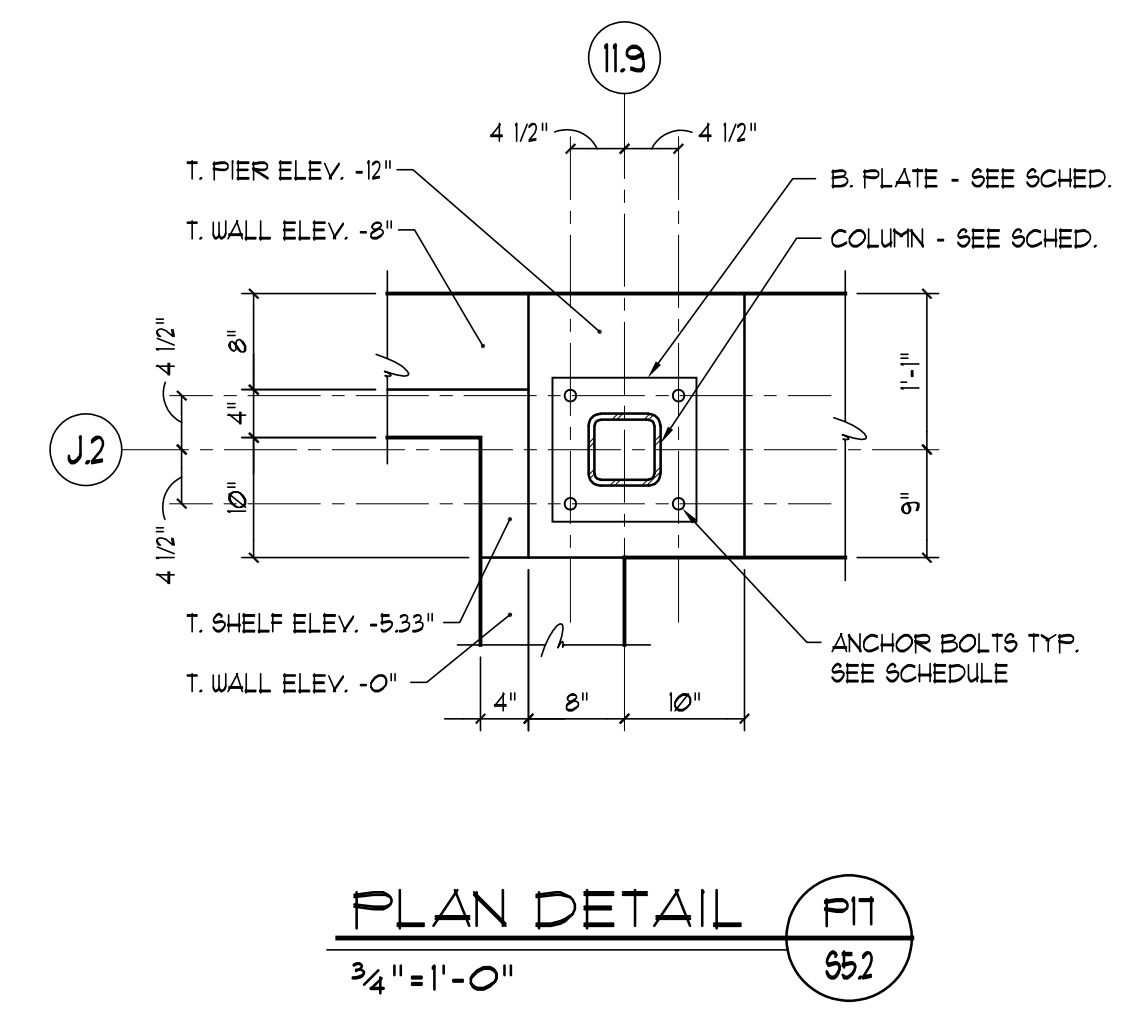
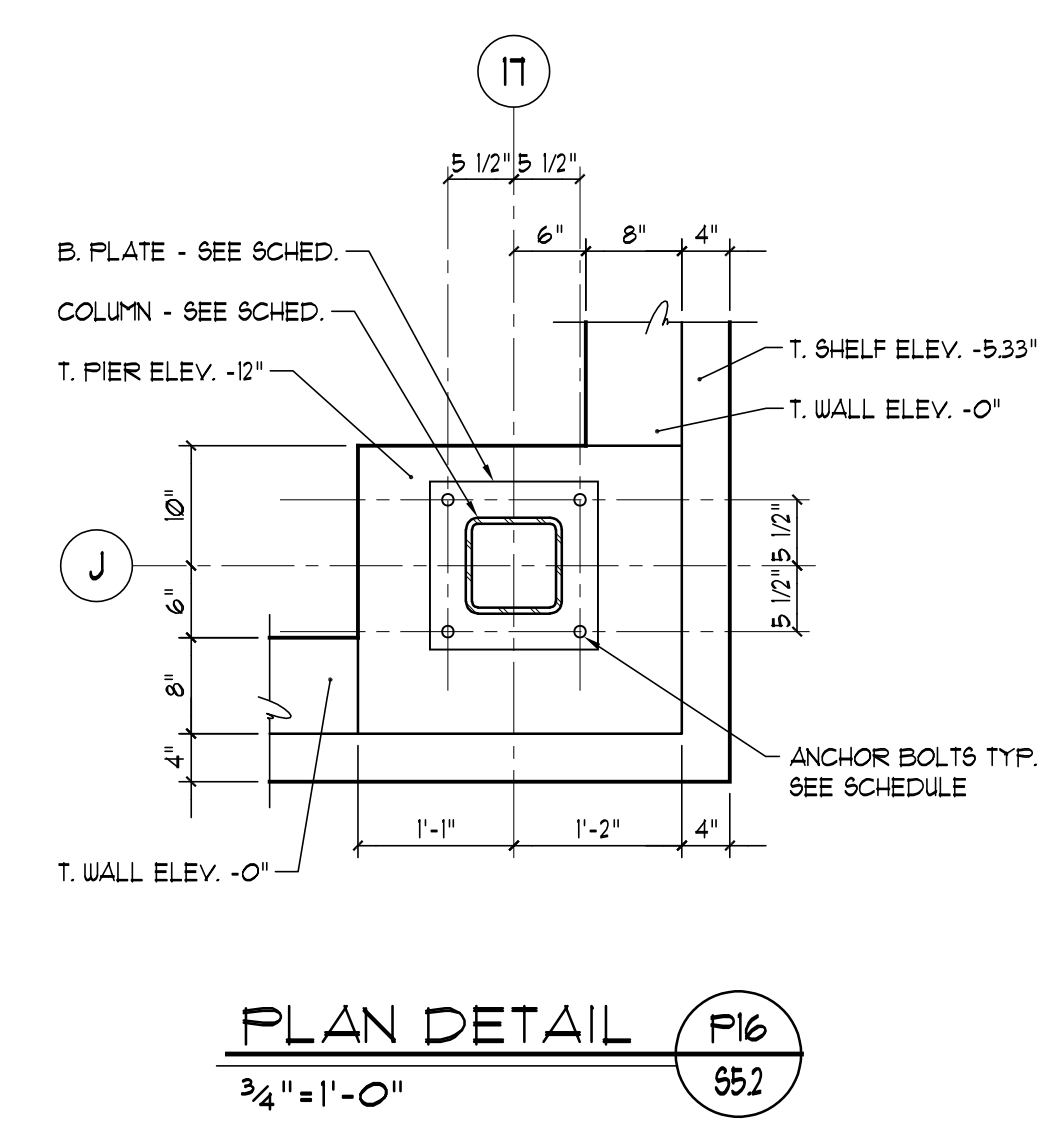
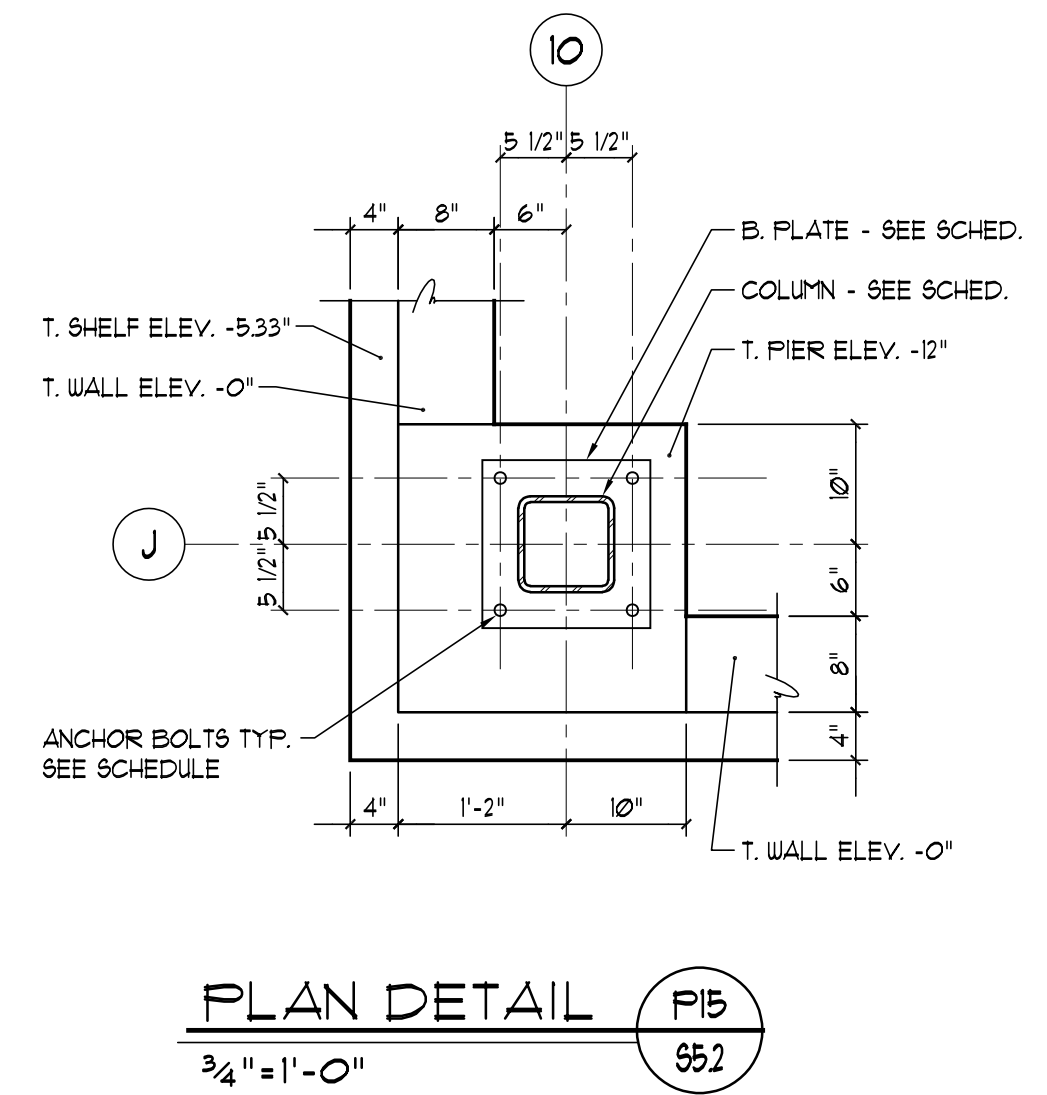
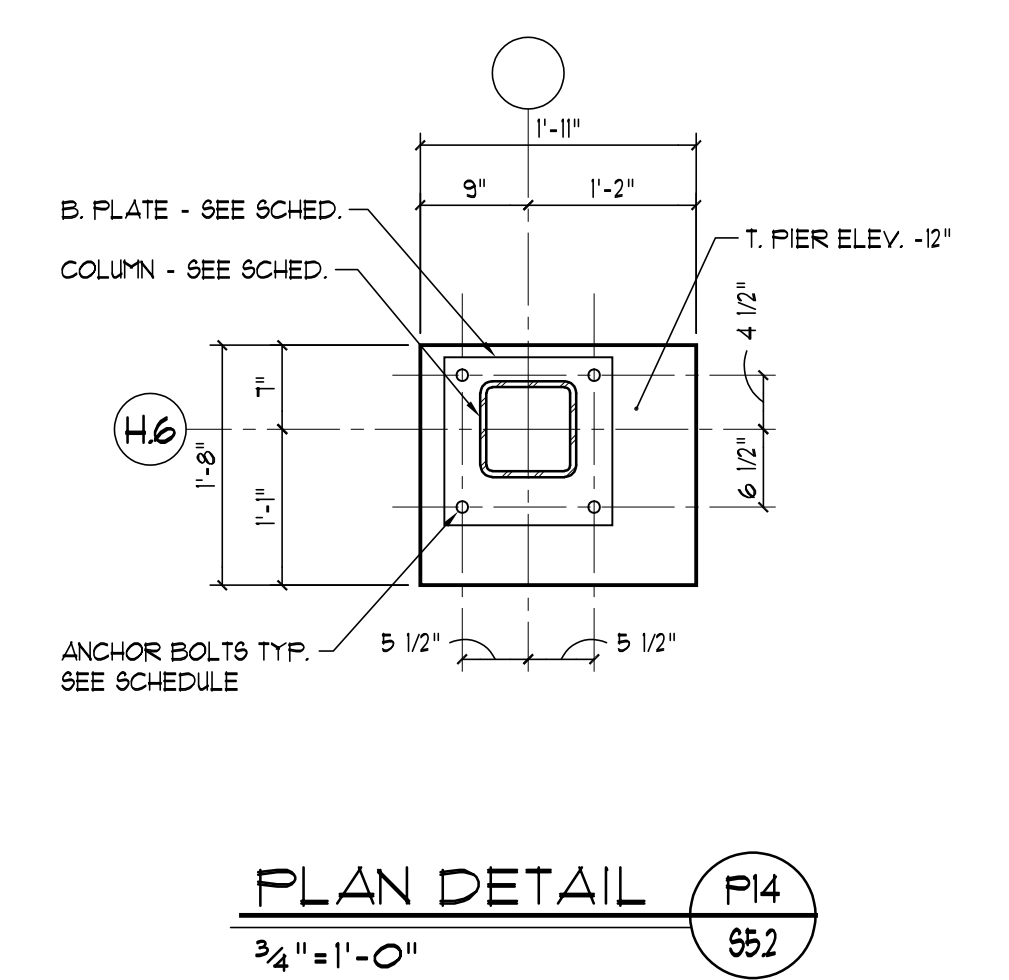
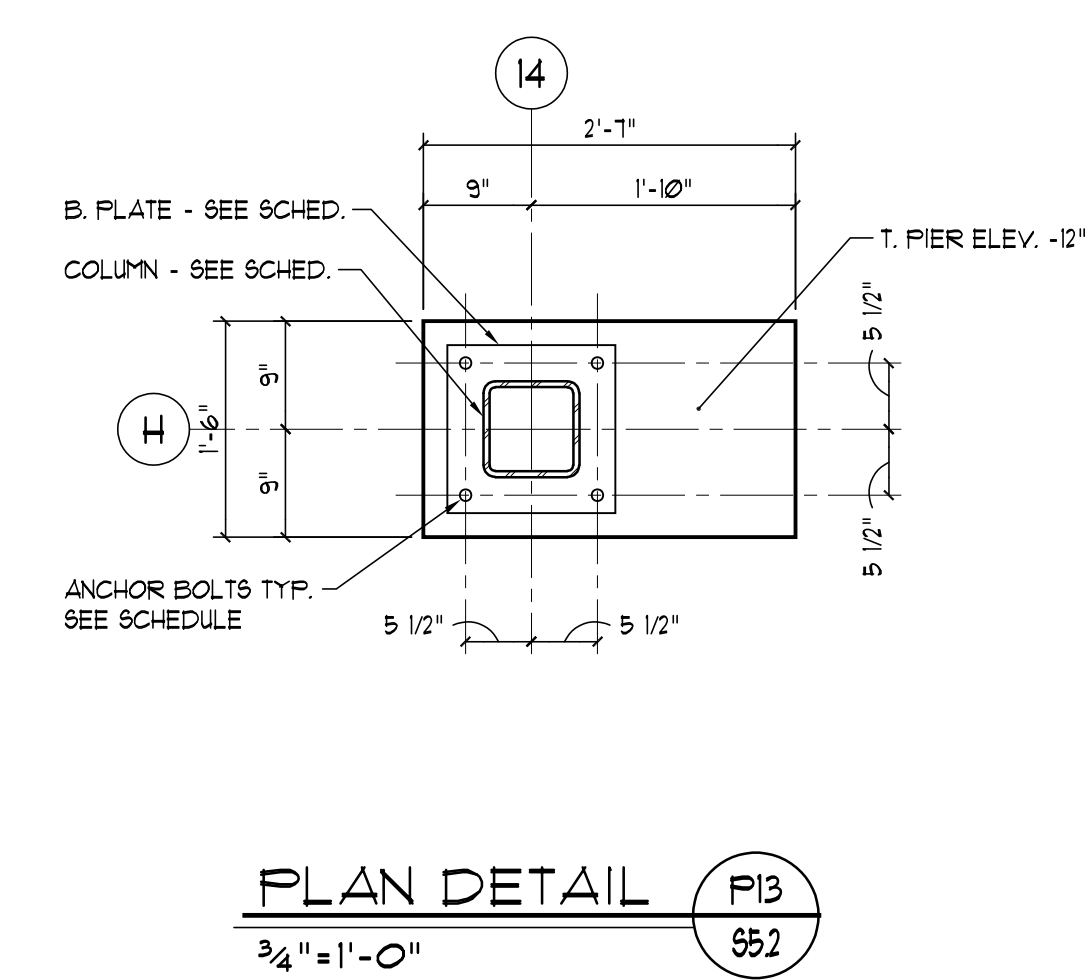
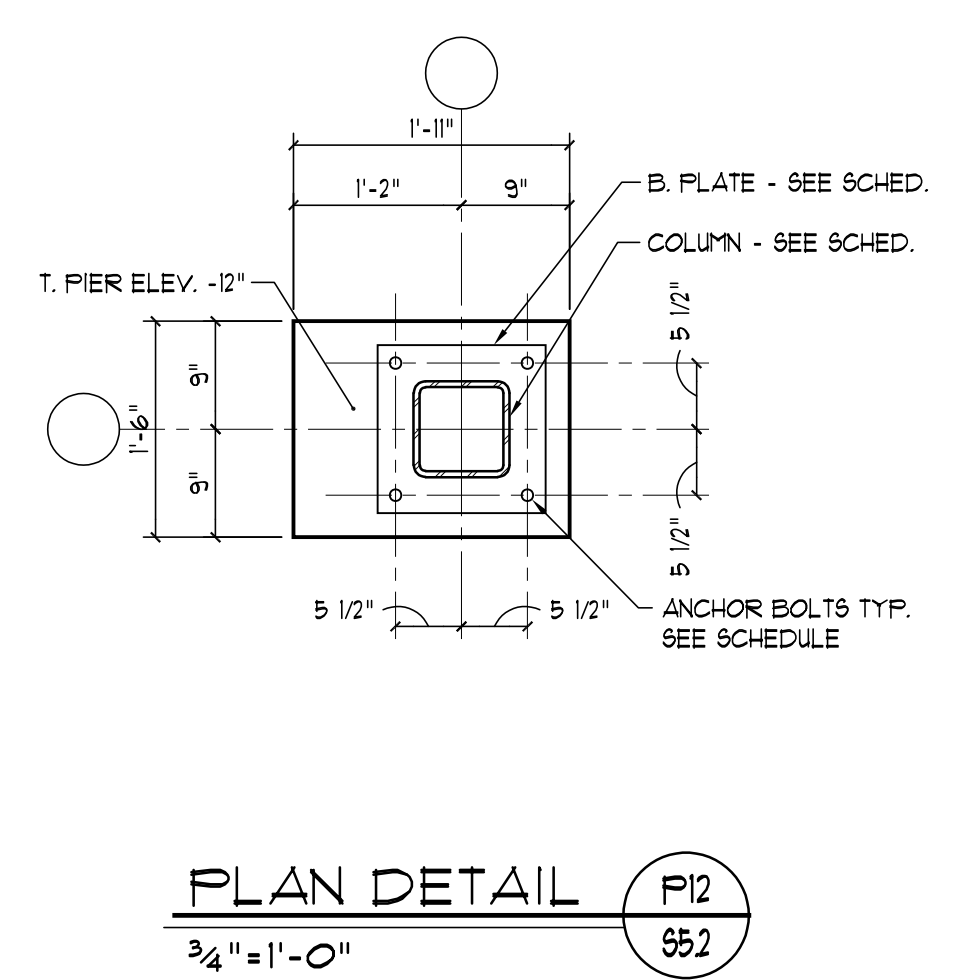
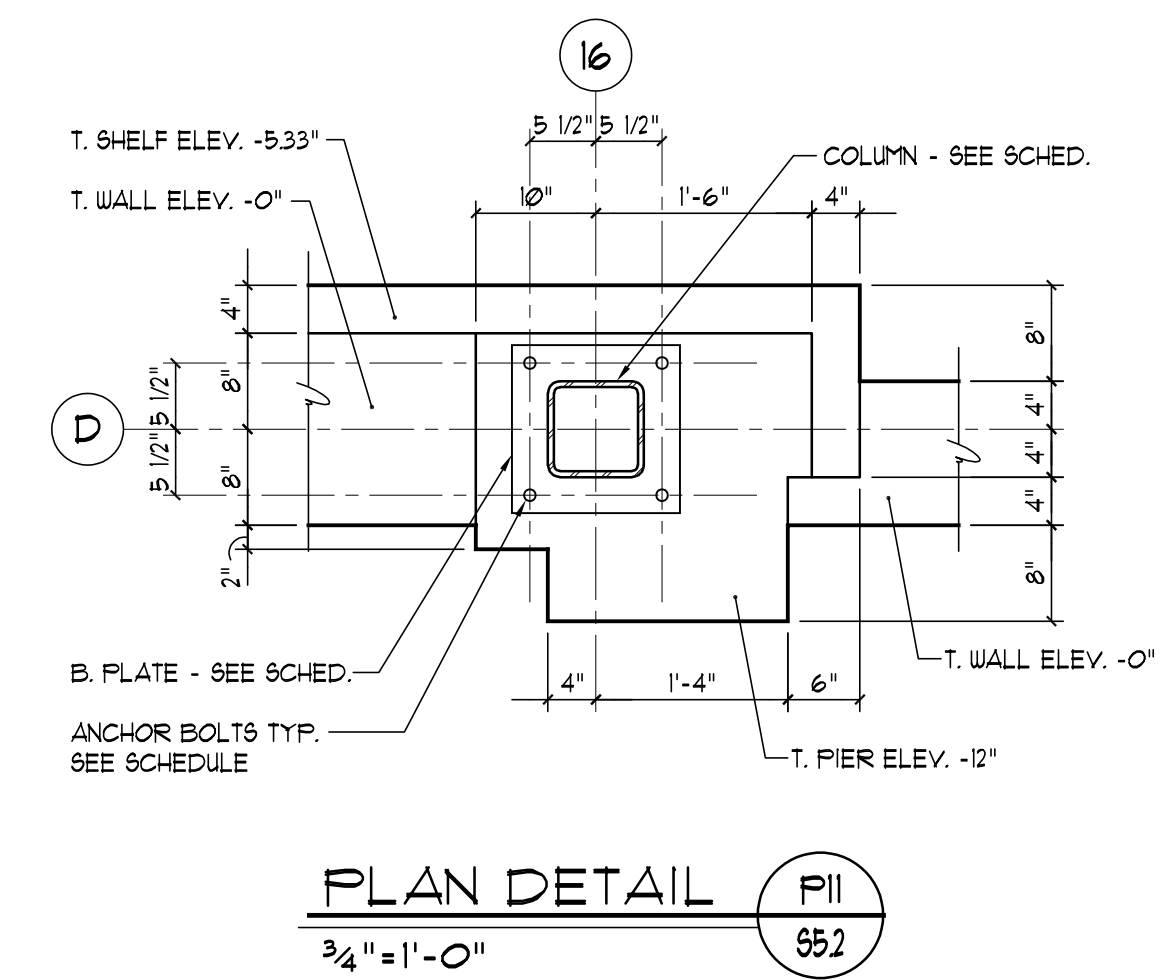
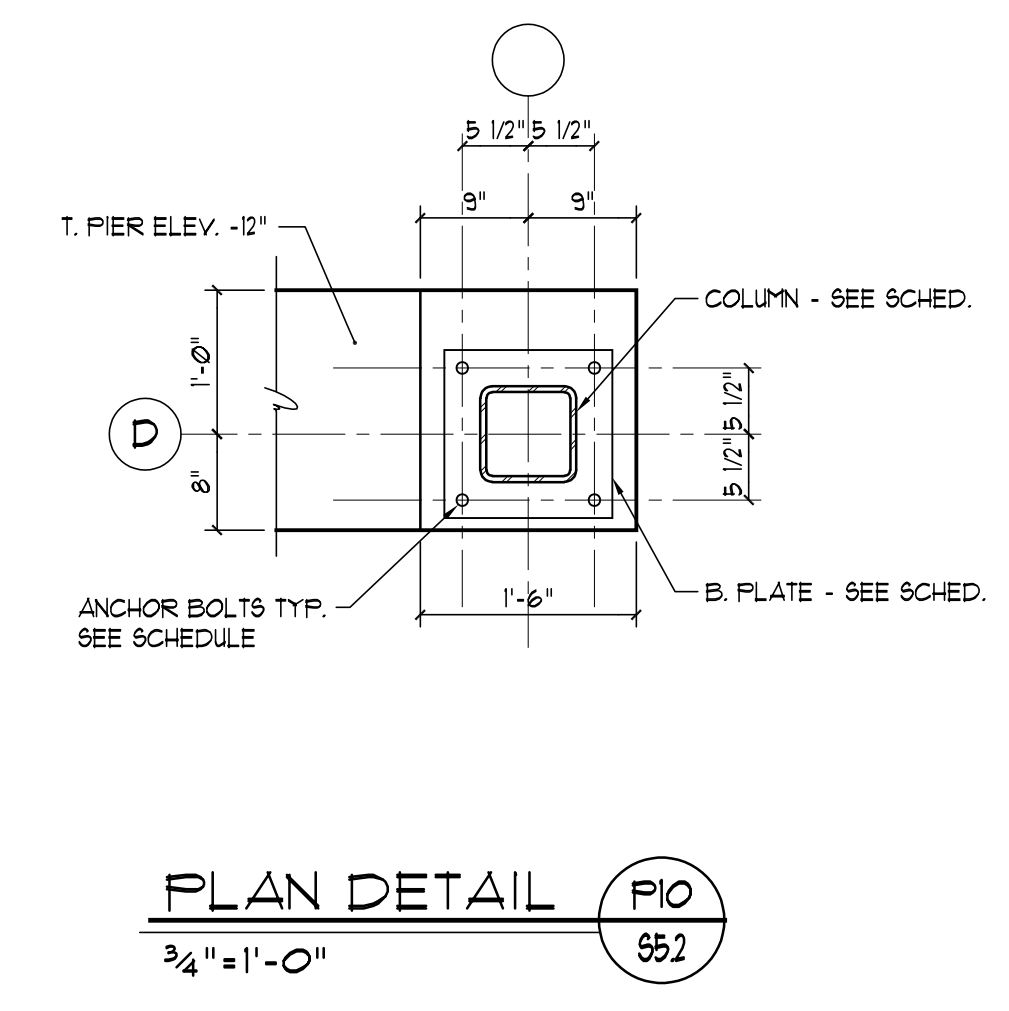
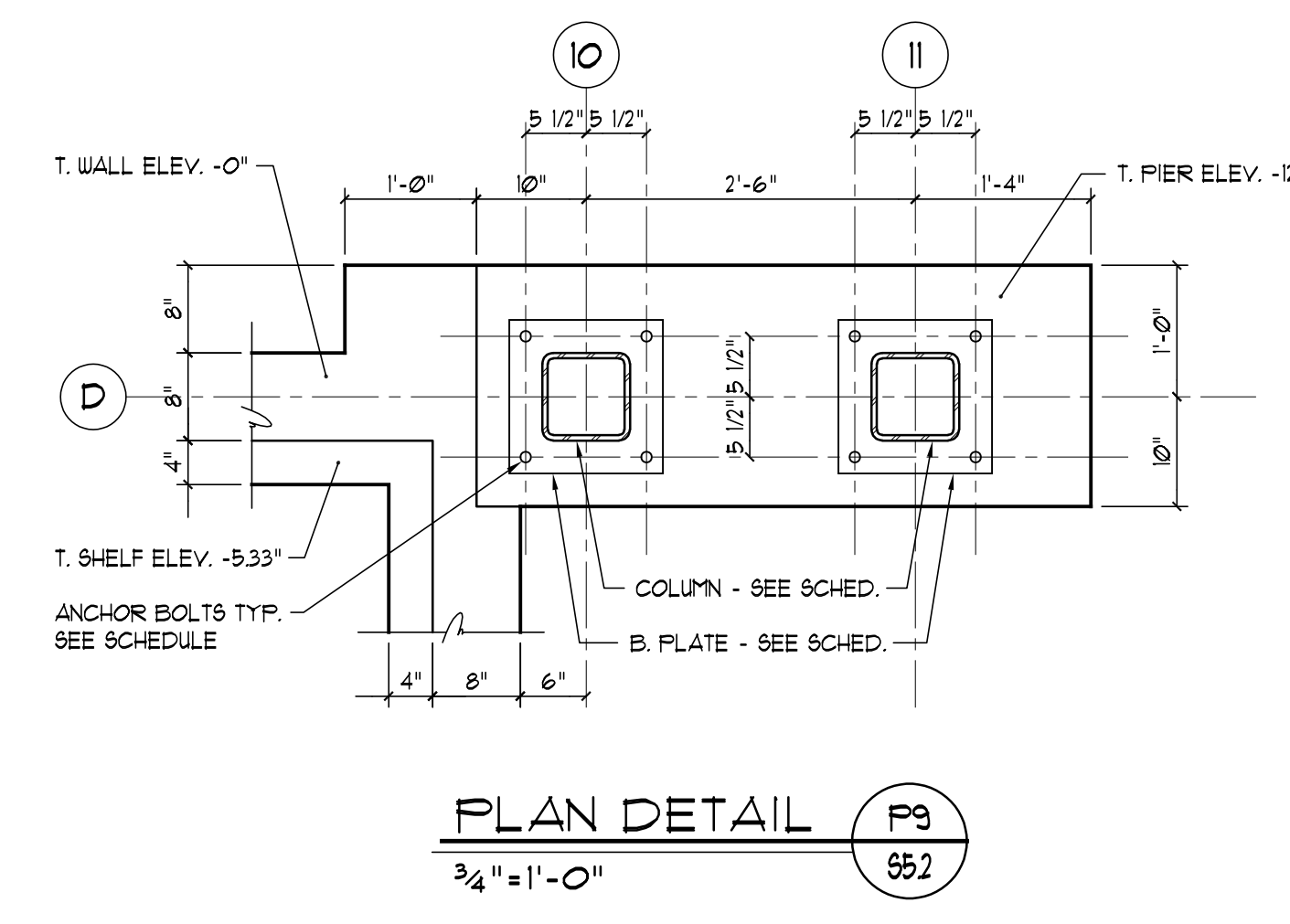
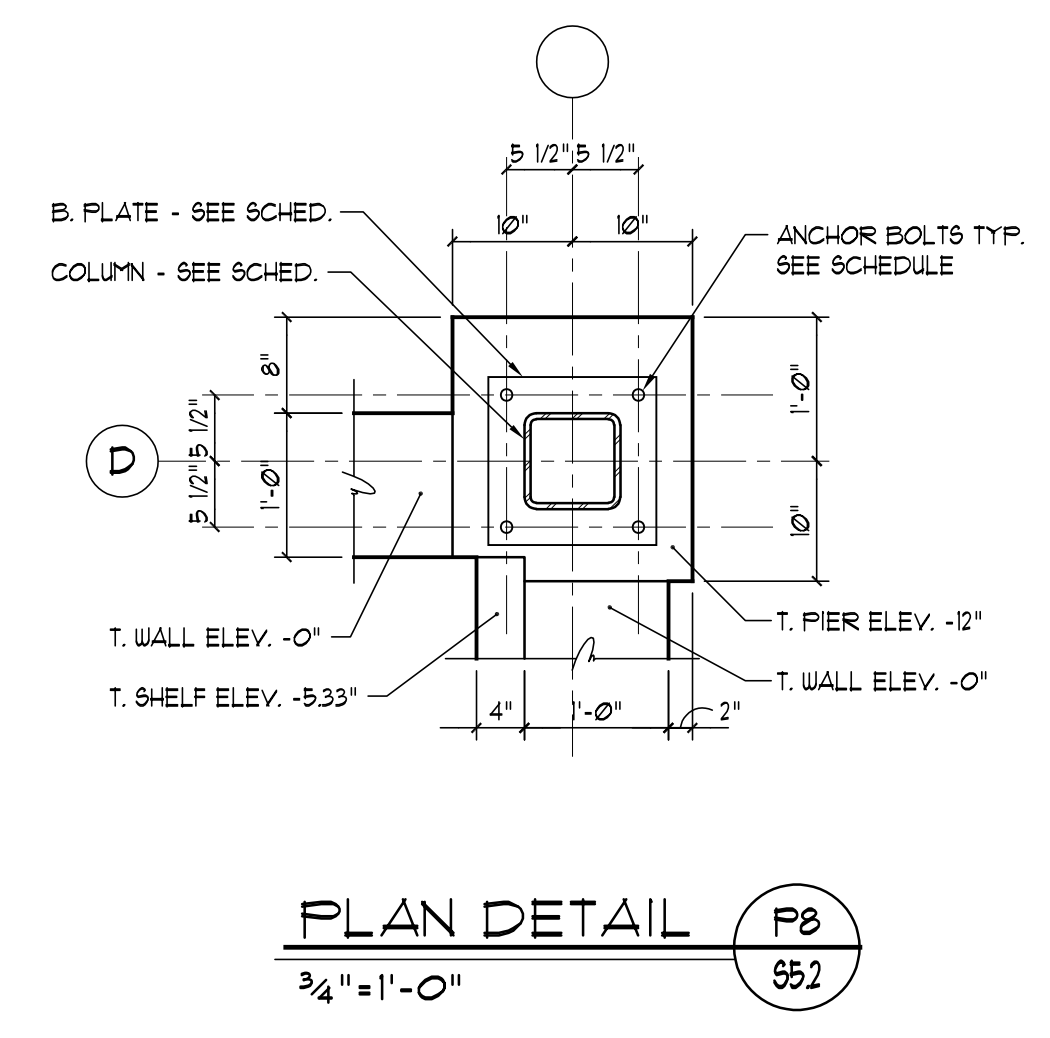
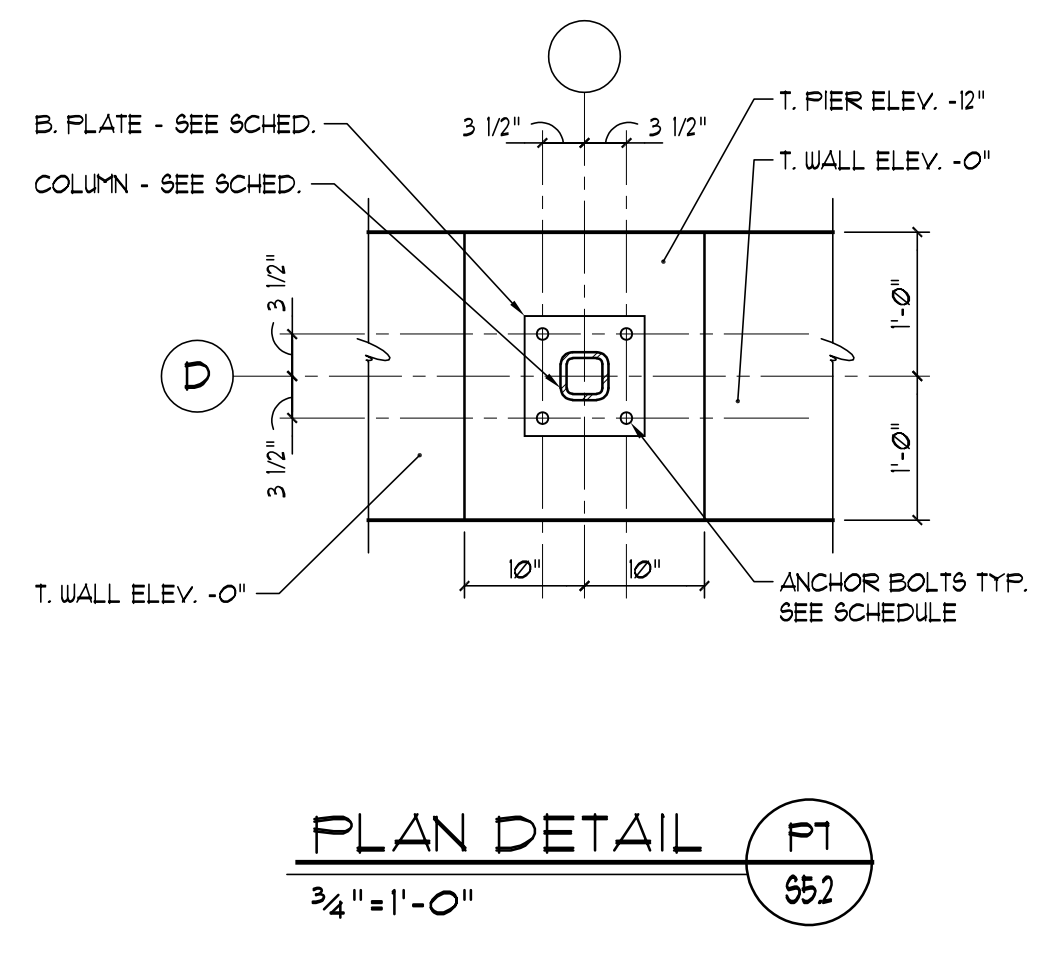
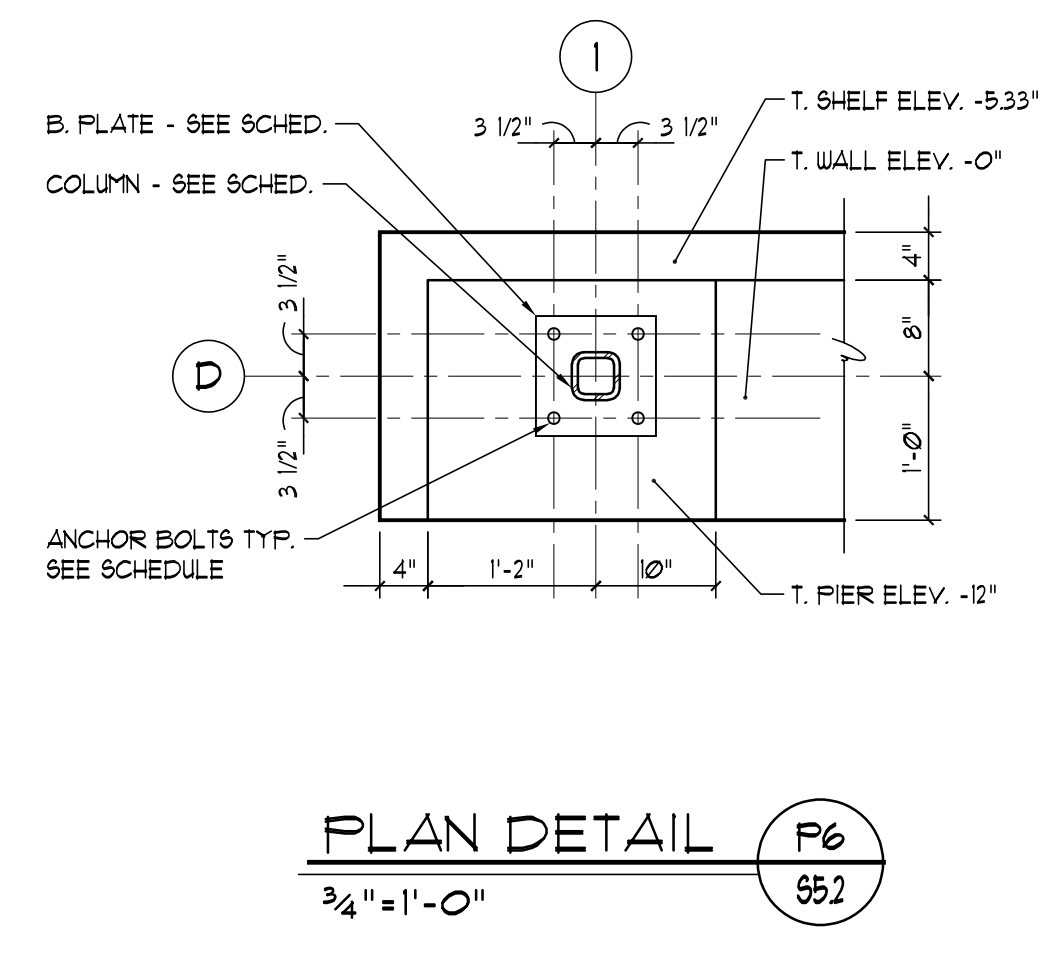
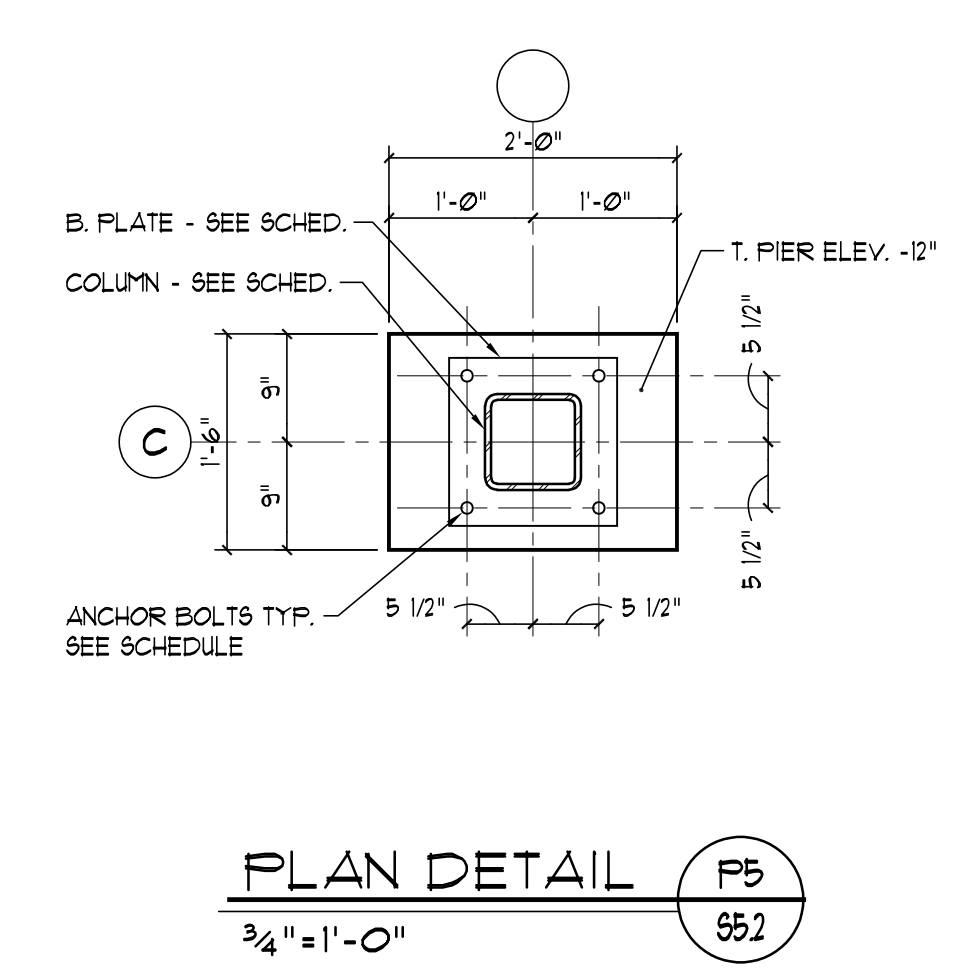
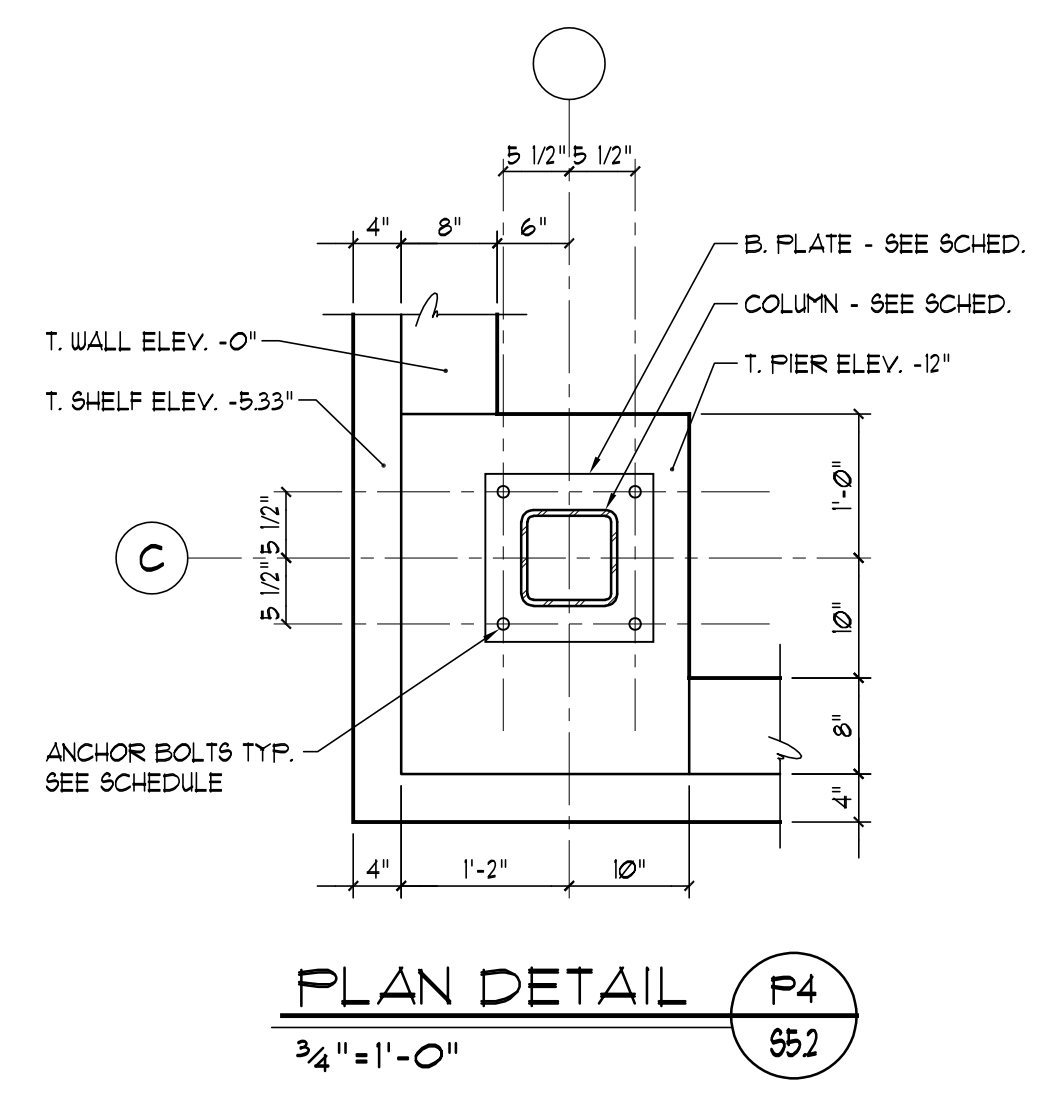
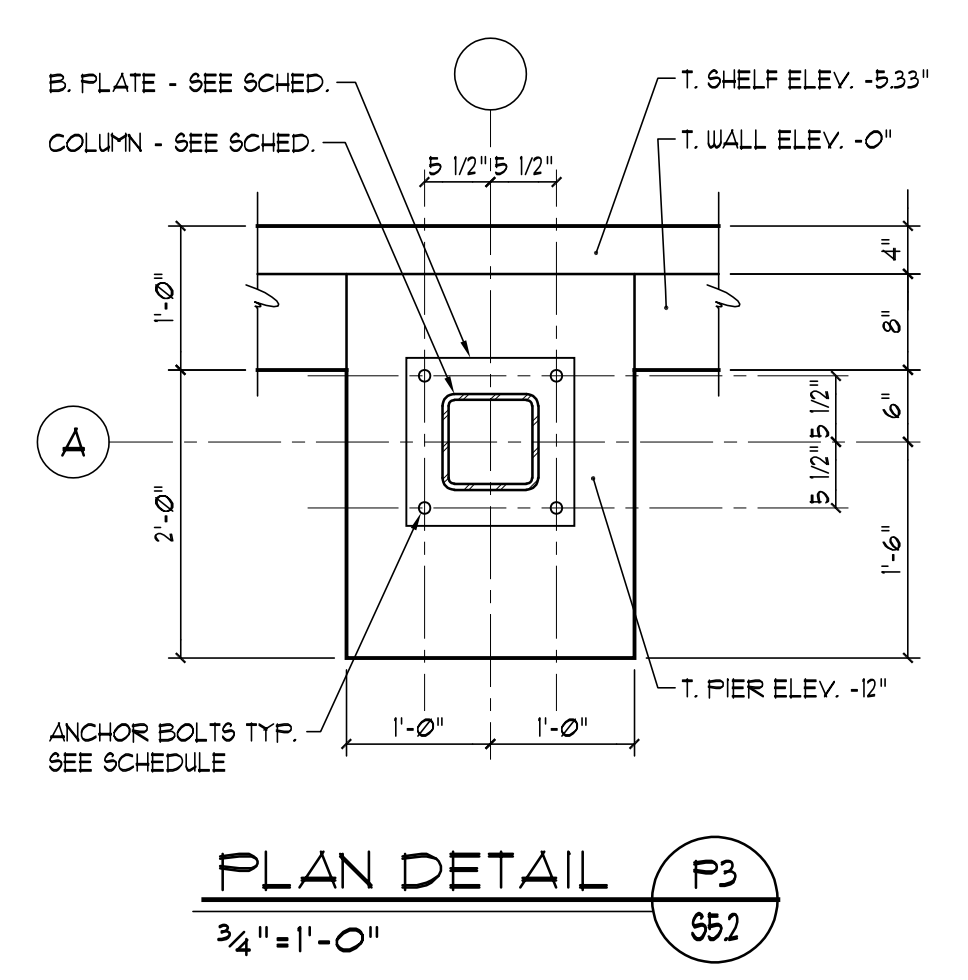
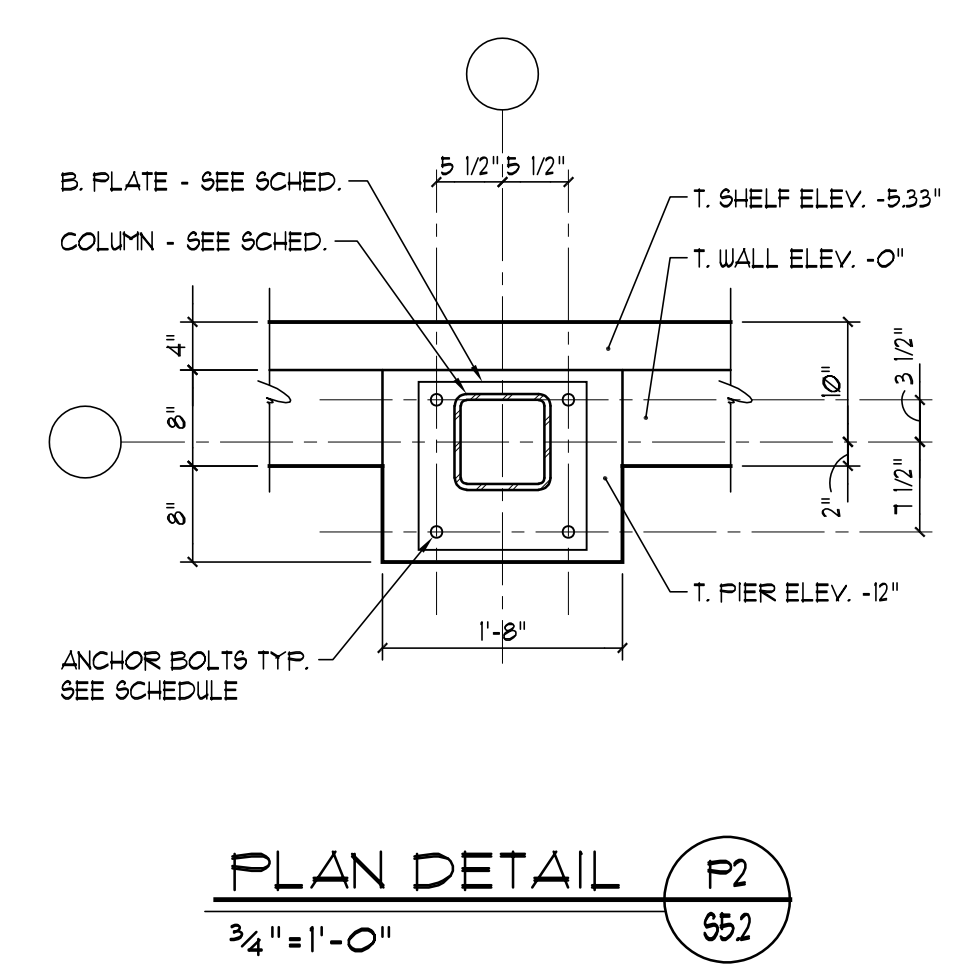
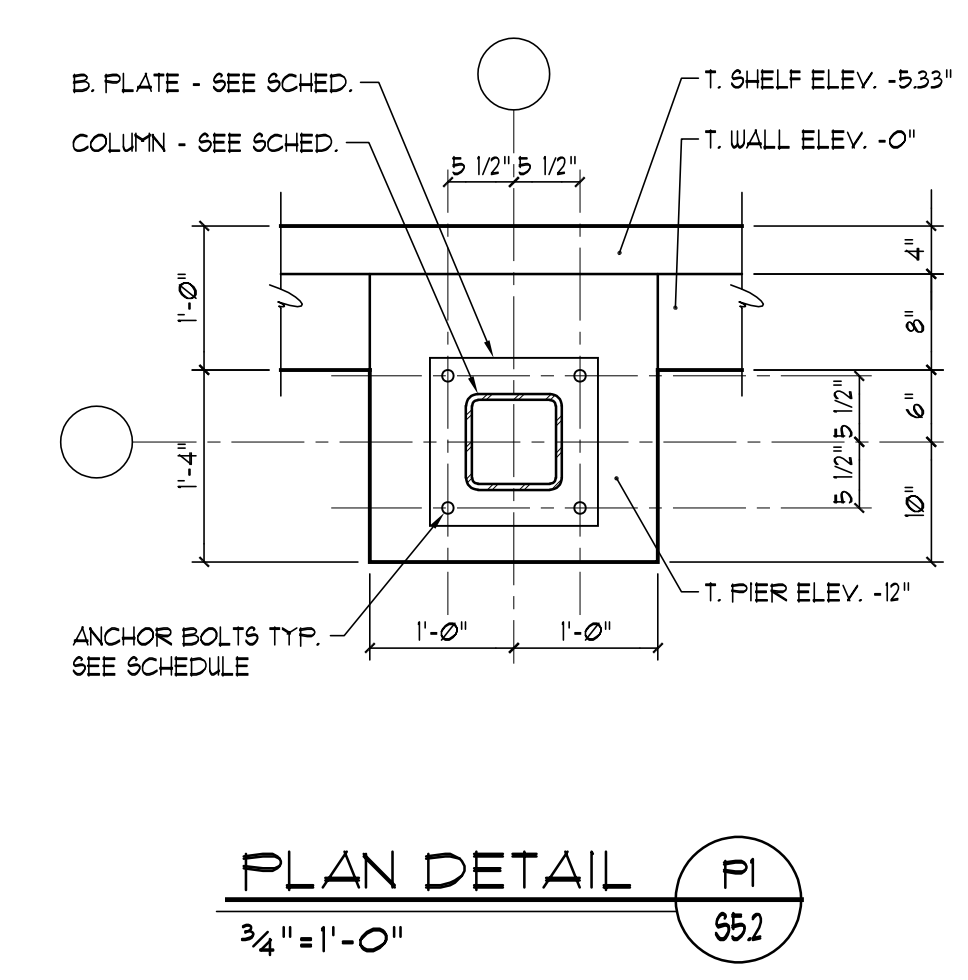
PLAN DETAILS

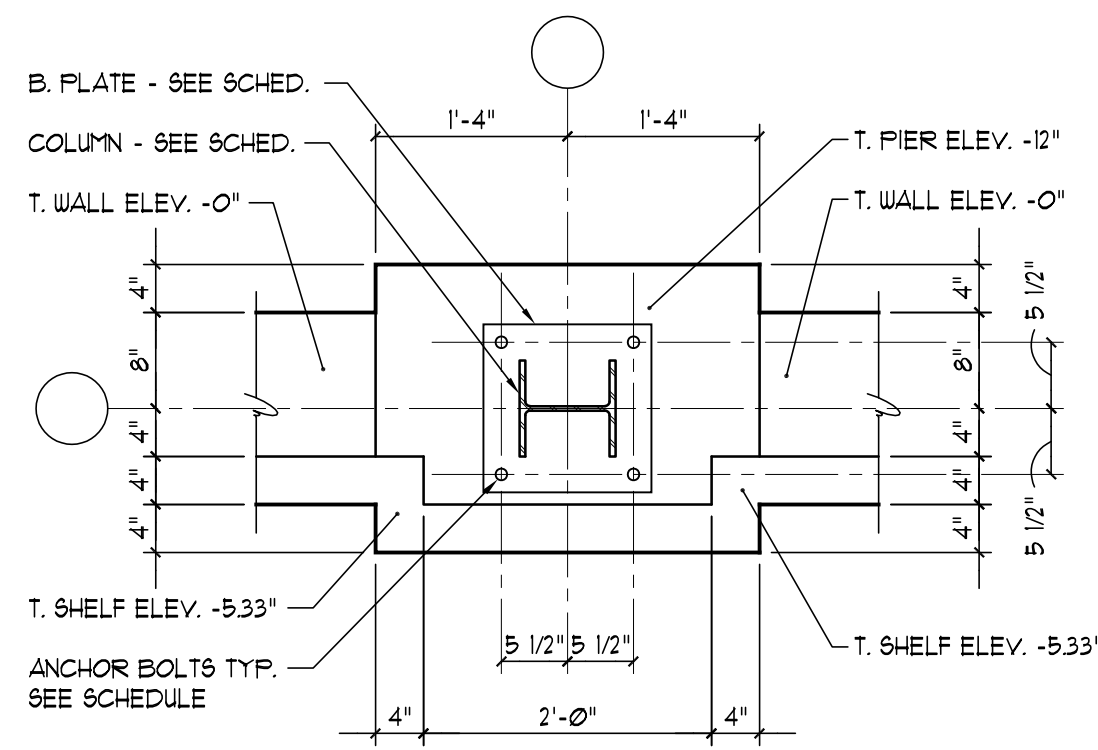
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Hebron
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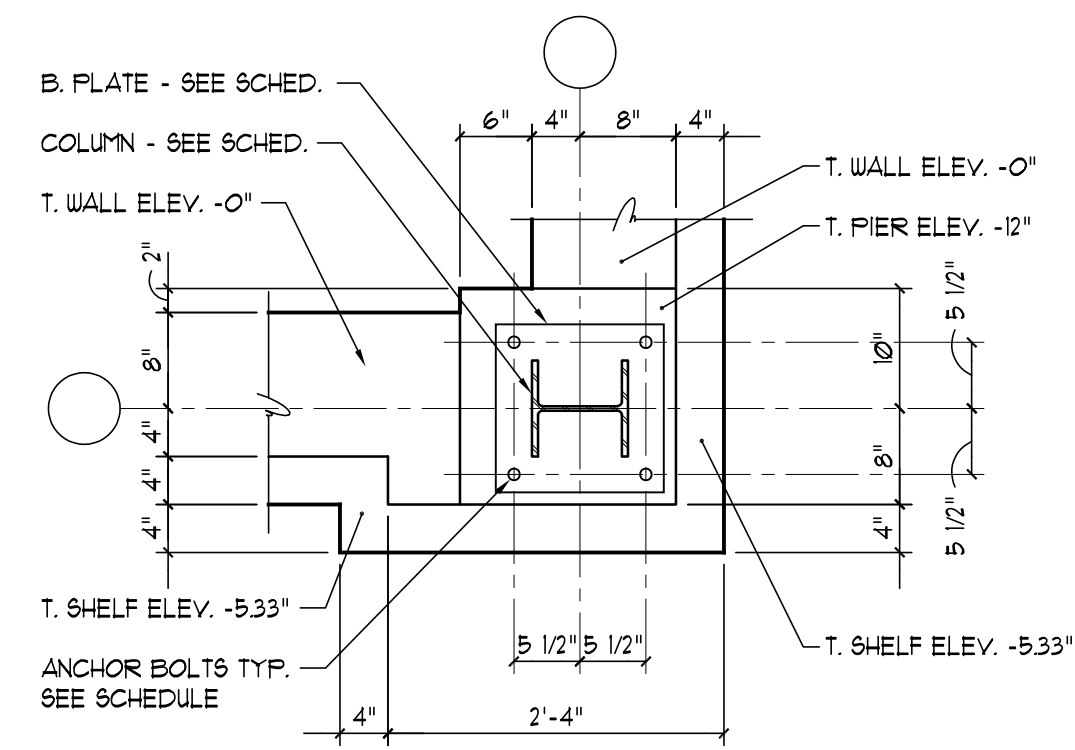
Additions and
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State Project Number
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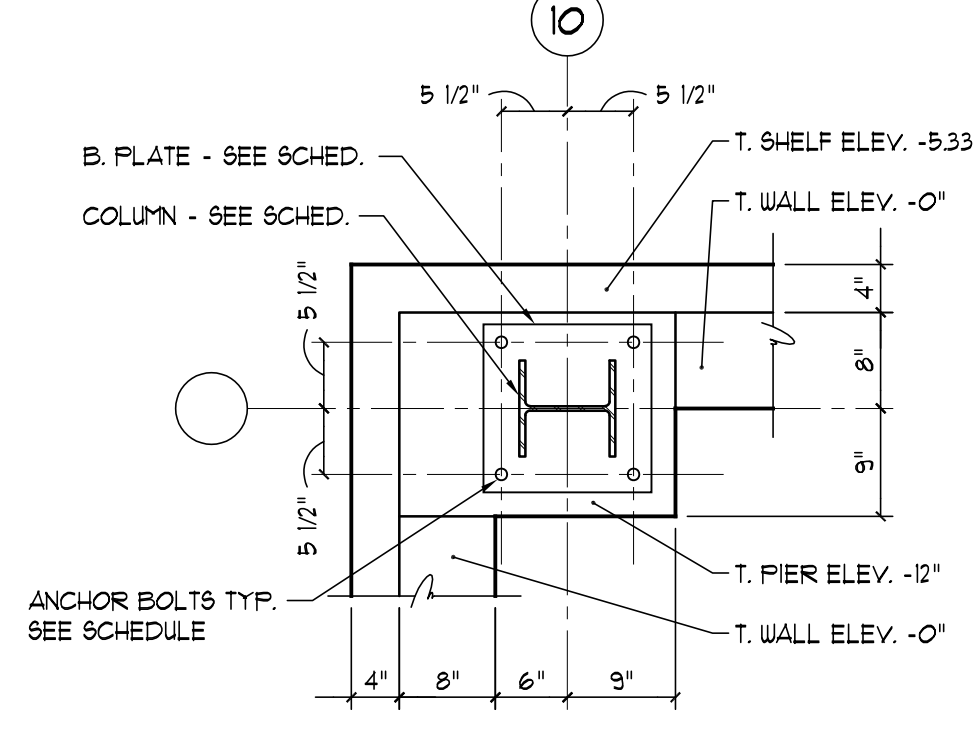




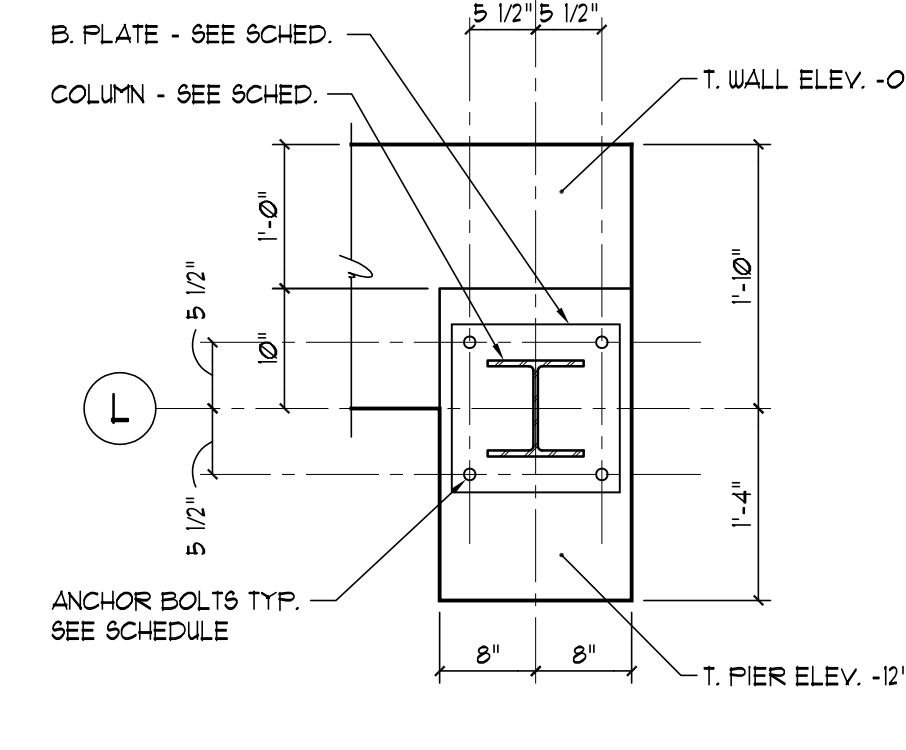
PLAN DETAIL F21
3/4" = 1'-0"



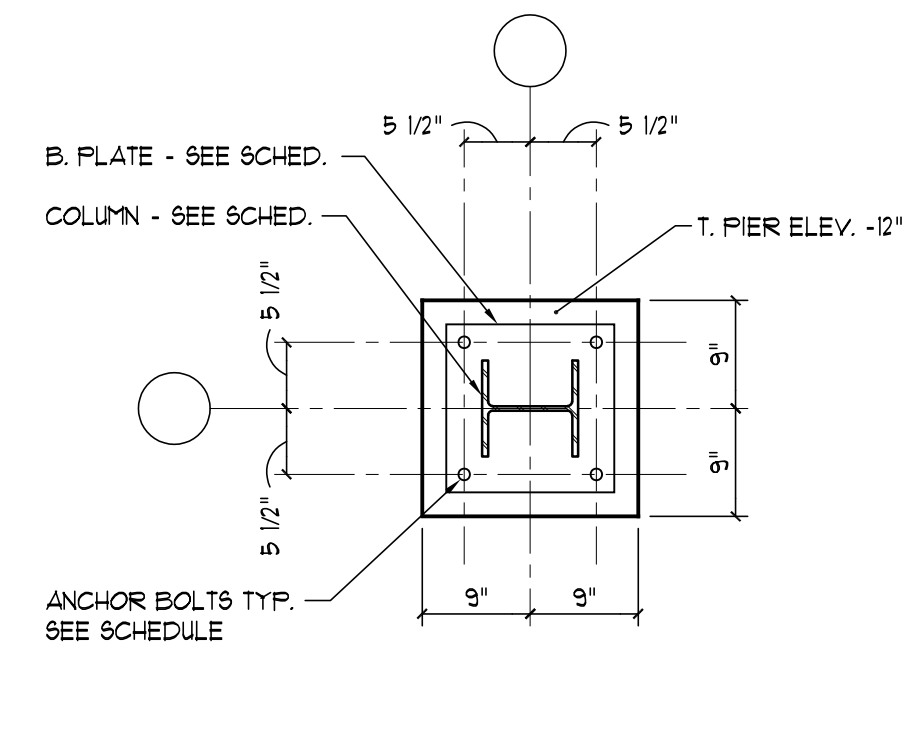
PLAN DETAIL F22
3/4" = 1'-0"



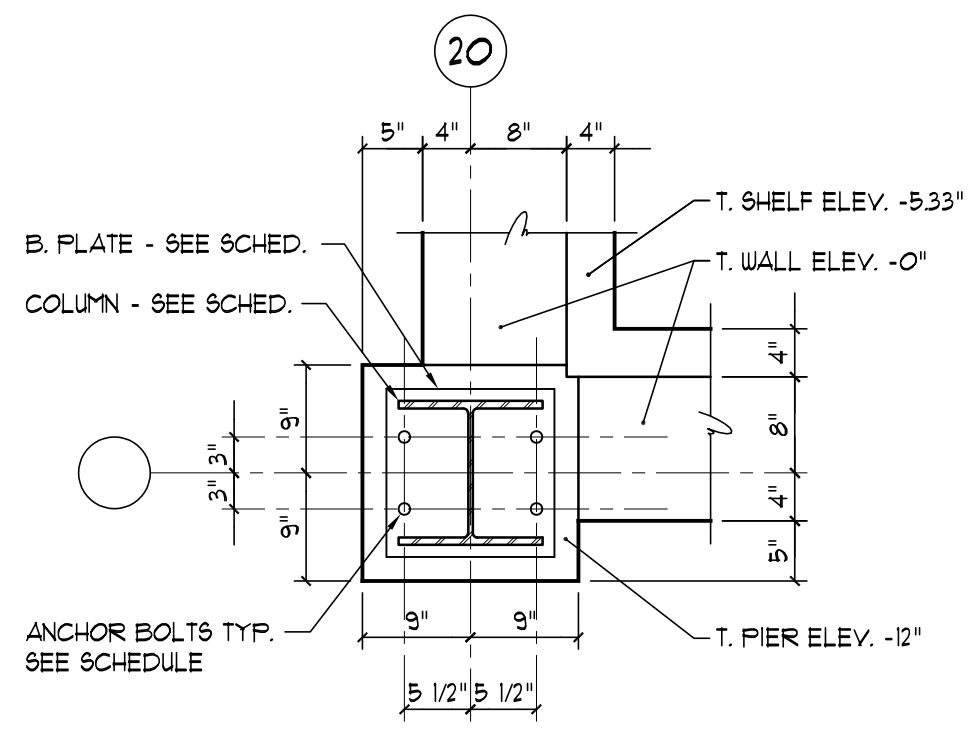
PLAN DETAIL F23
3/4" = 1'-0"



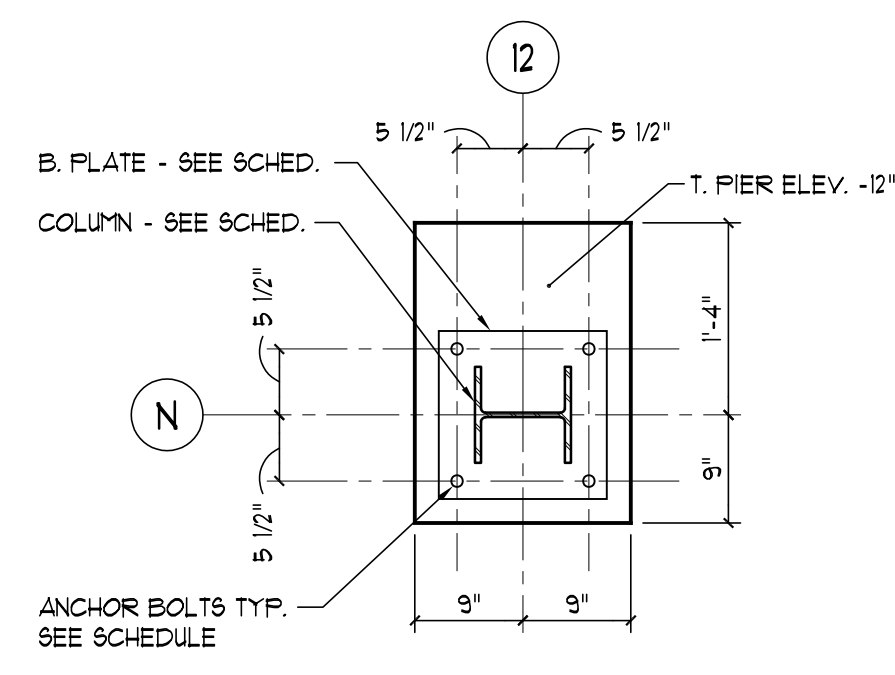
PLAN DETAIL F24
3/4" = 1'-0"



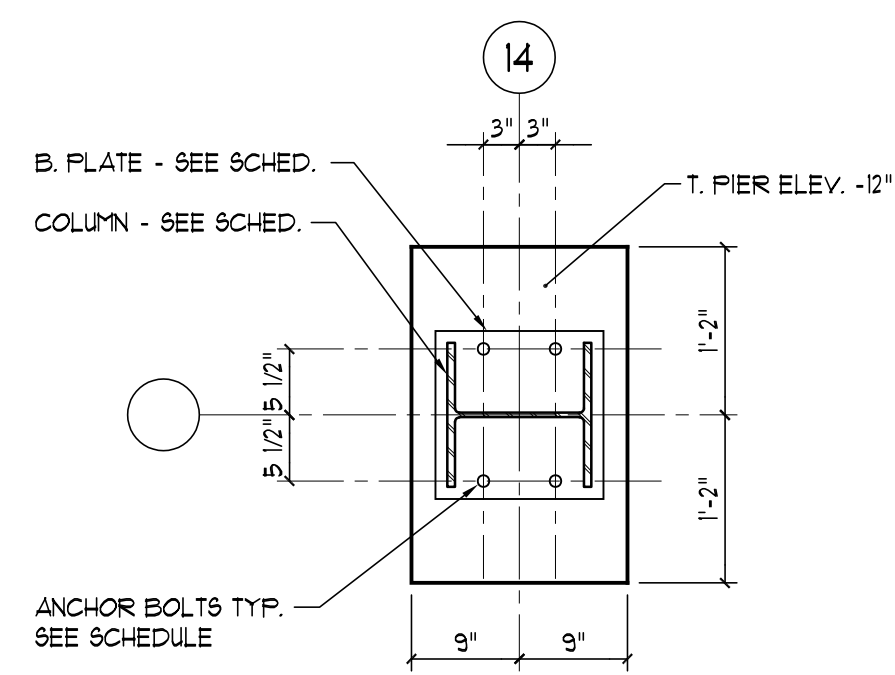
PLAN DETAIL F25
3/4" = 1'-0"



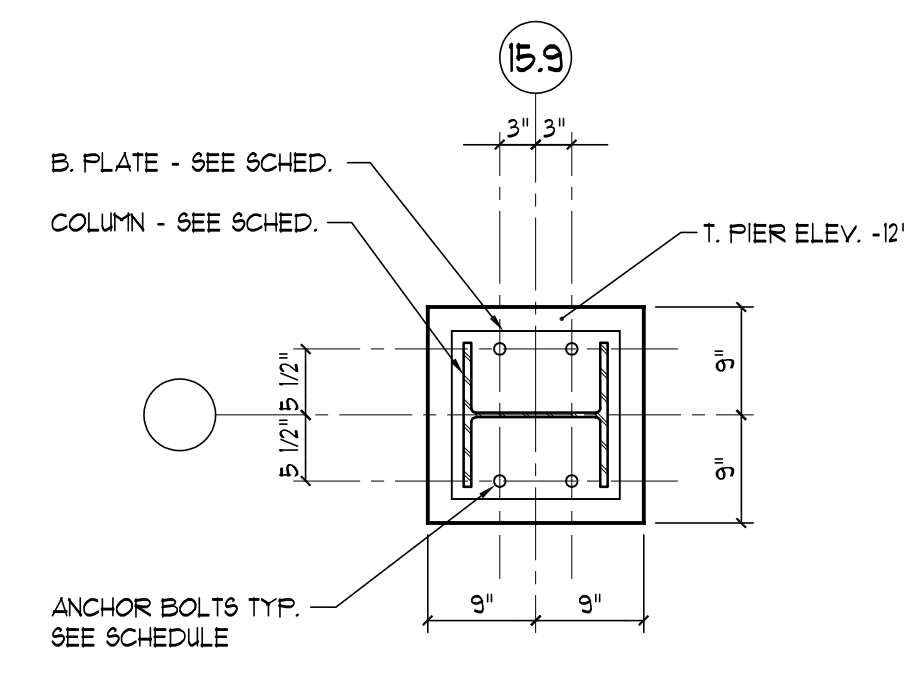
PLAN DETAIL F26
3/4" = 1'-0"



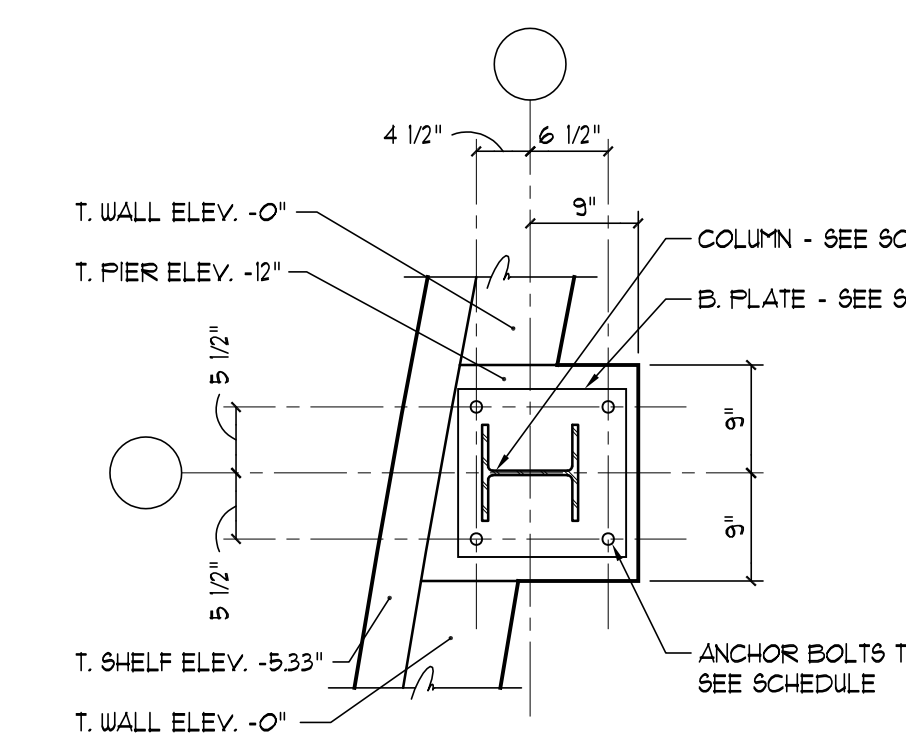
PLAN DETAIL F27
3/4" = 1'-0"



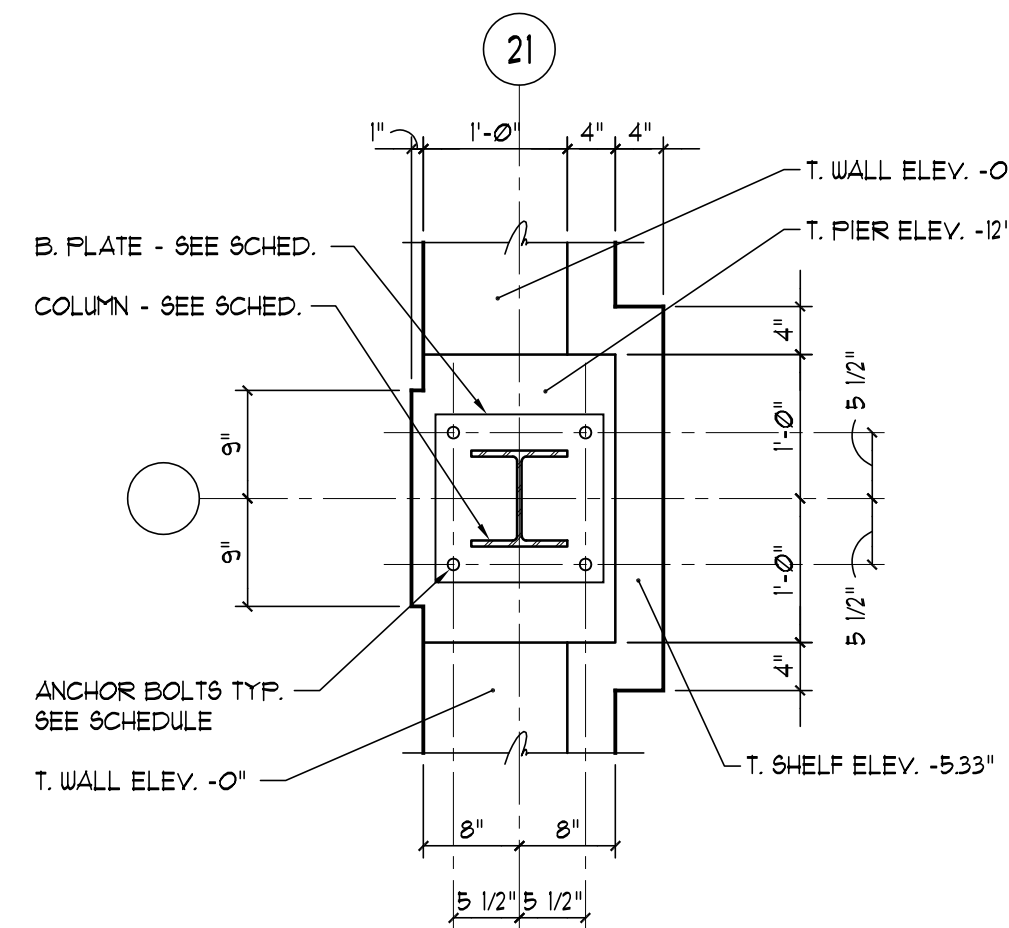
PLAN DETAIL F28
3/4" = 1'-0"



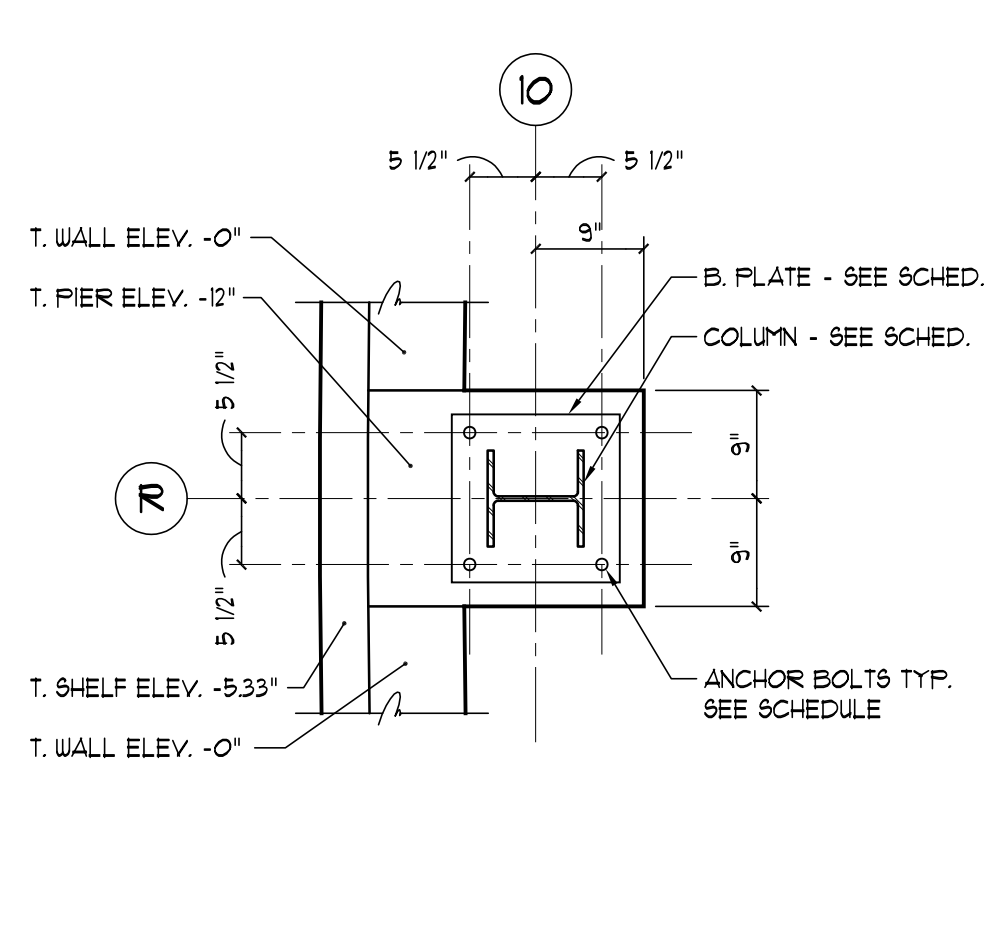
PLAN DETAIL F29
3/4" = 1'-0"



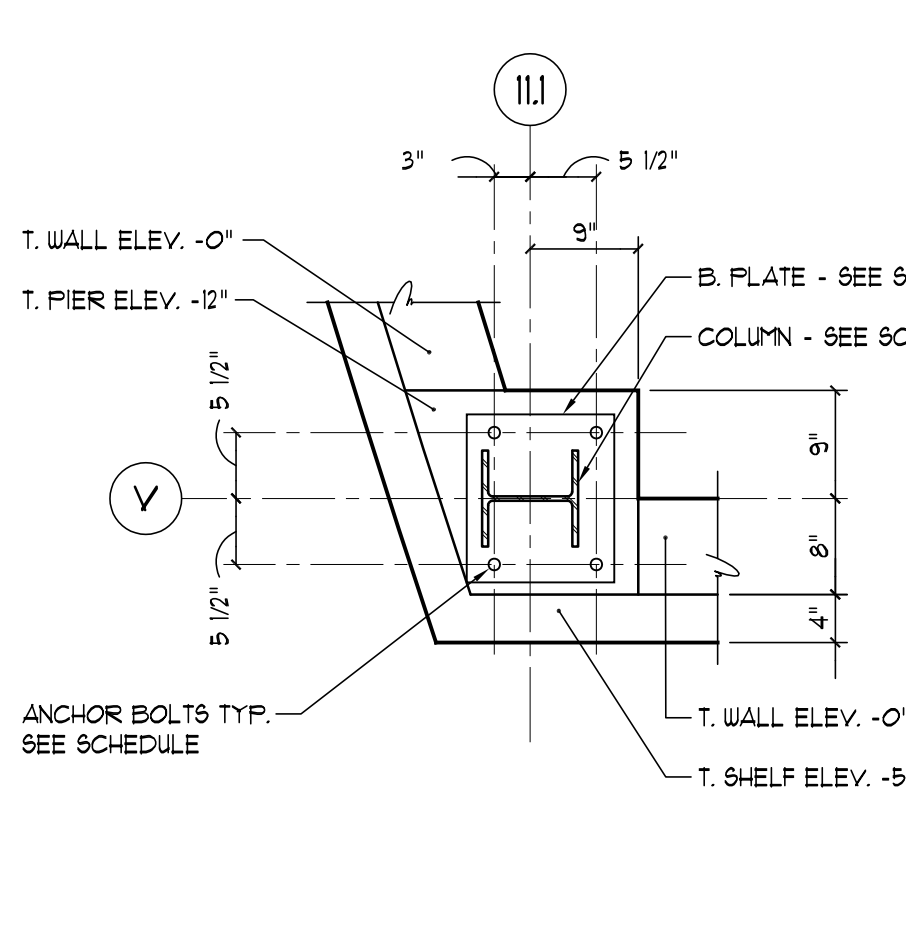
PLAN DETAIL F30
3/4" = 1'-0"



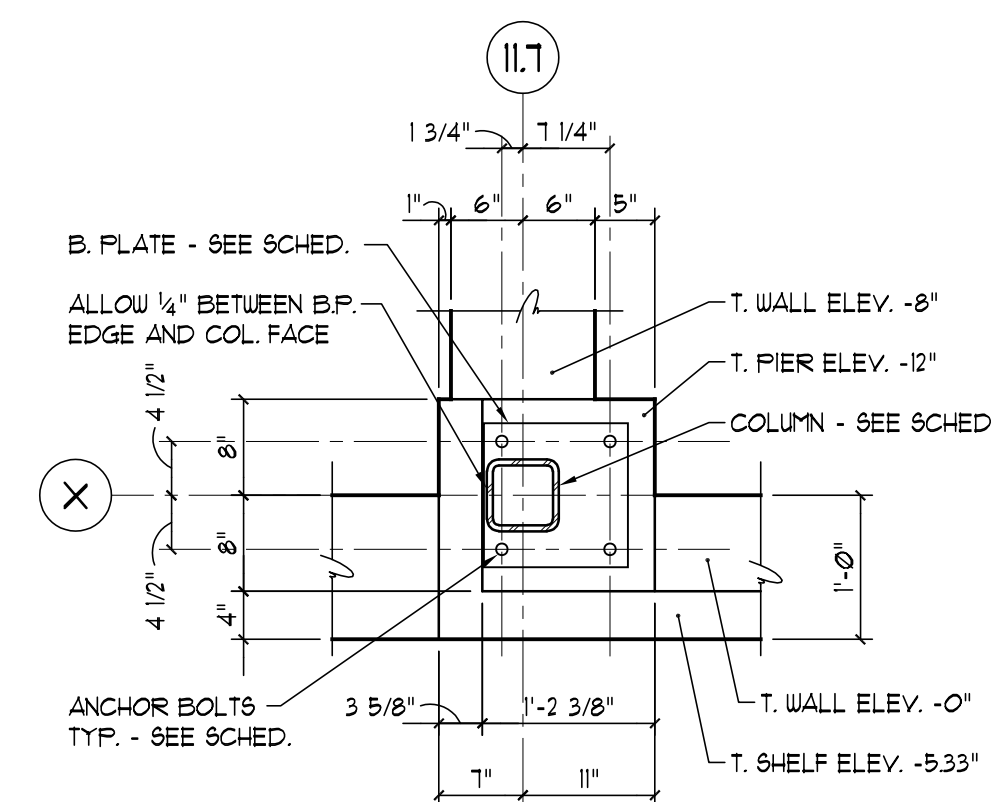
PLAN DETAIL F31
3/4" = 1'-0"



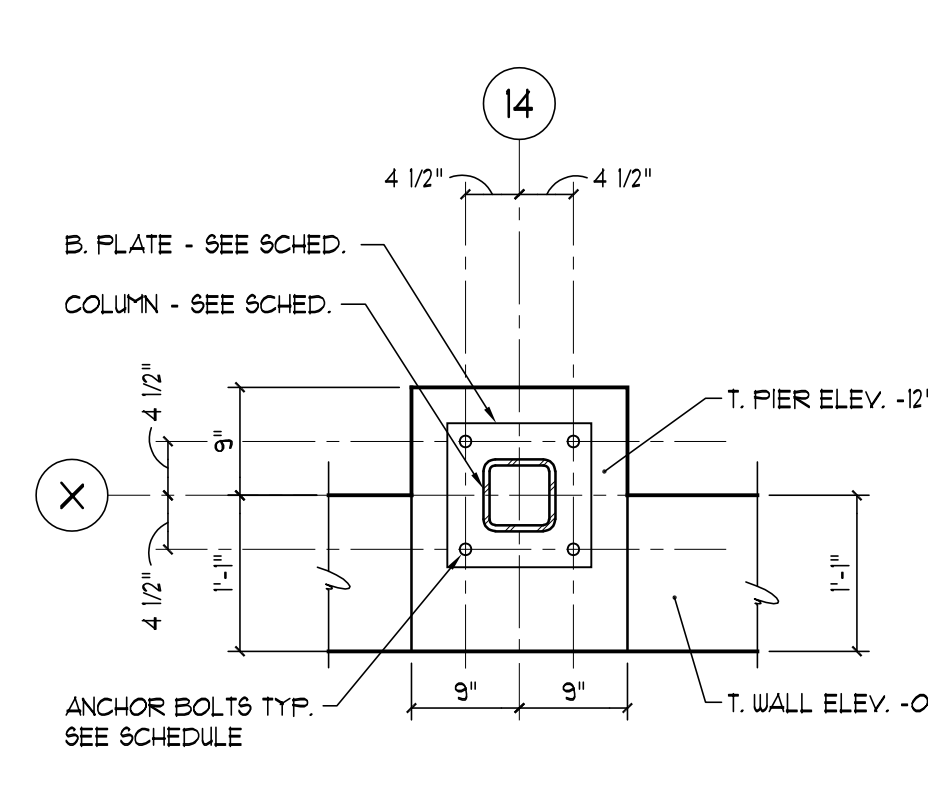
PLAN DETAIL F32
3/4" = 1'-0"



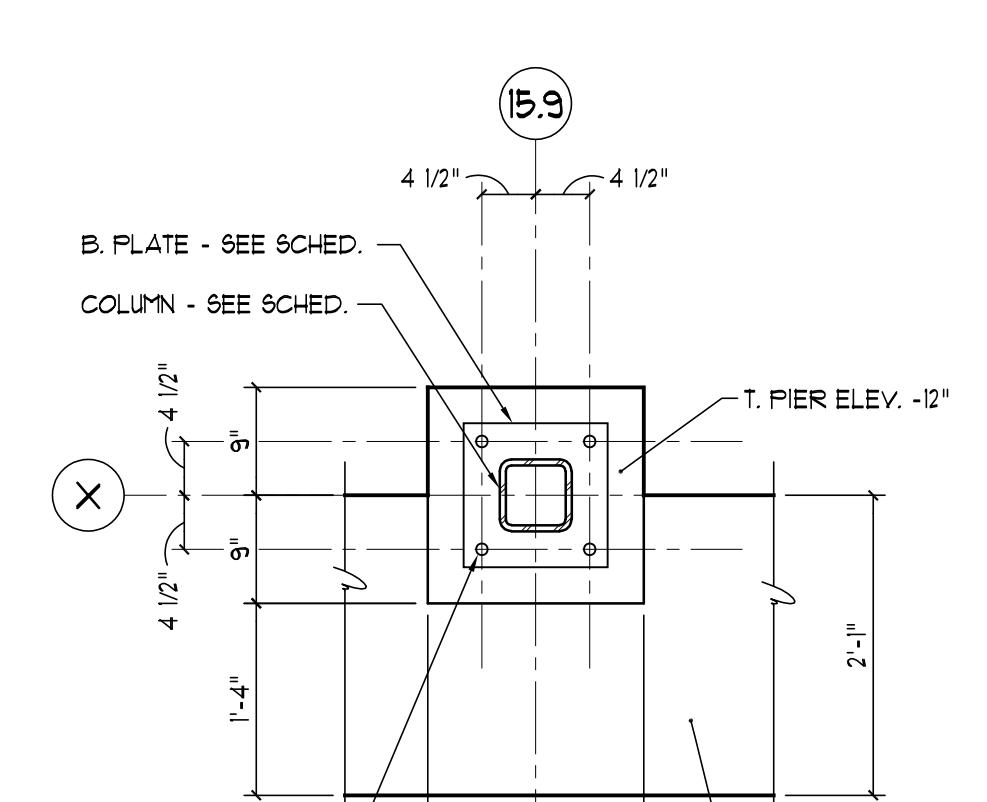
PLAN DETAIL F33
3/4" = 1'-0"



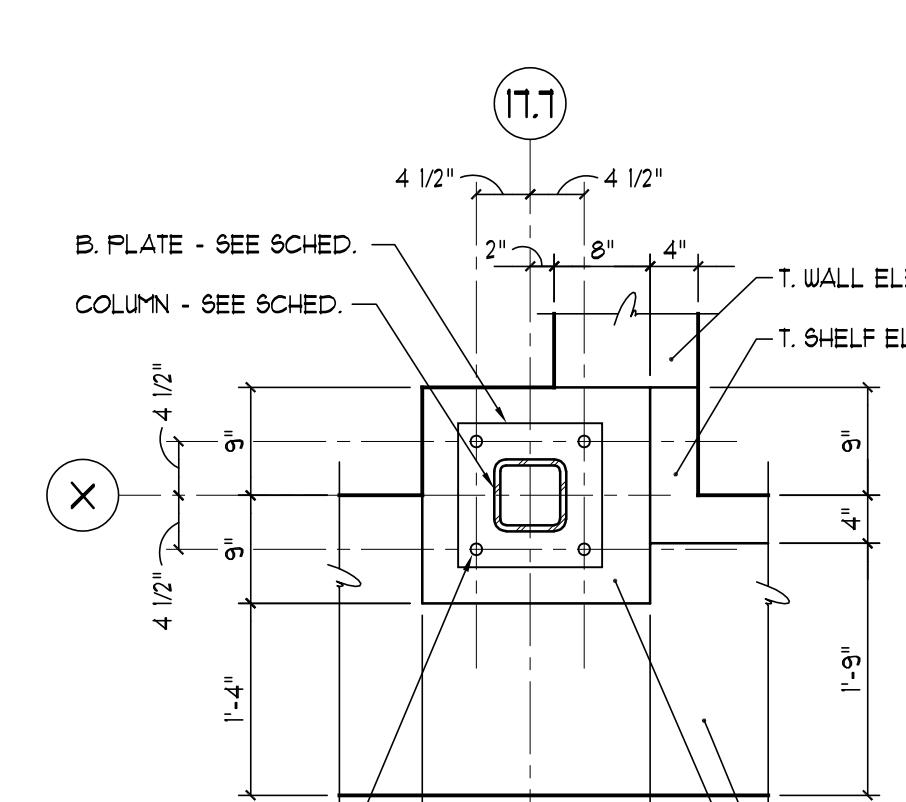
PLAN DETAIL F34
3/4" = 1'-0"



PLAN DETAIL F35
3/4" = 1'-0"



PLAN DETAIL F36
3/4" = 1'-0"



PLAN DETAIL F37
3/4" = 1'-0"

C.J. Lawler Associates Architects
7 South Main Street, West Hartford, Connecticut 06107
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No.	Description	Date
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PLAN DETAILS

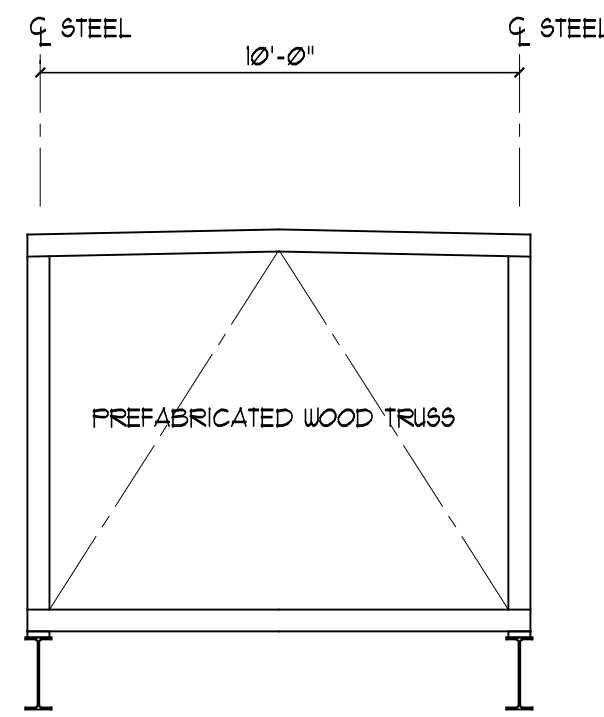
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Hebron Elementary School
Hebron, Connecticut

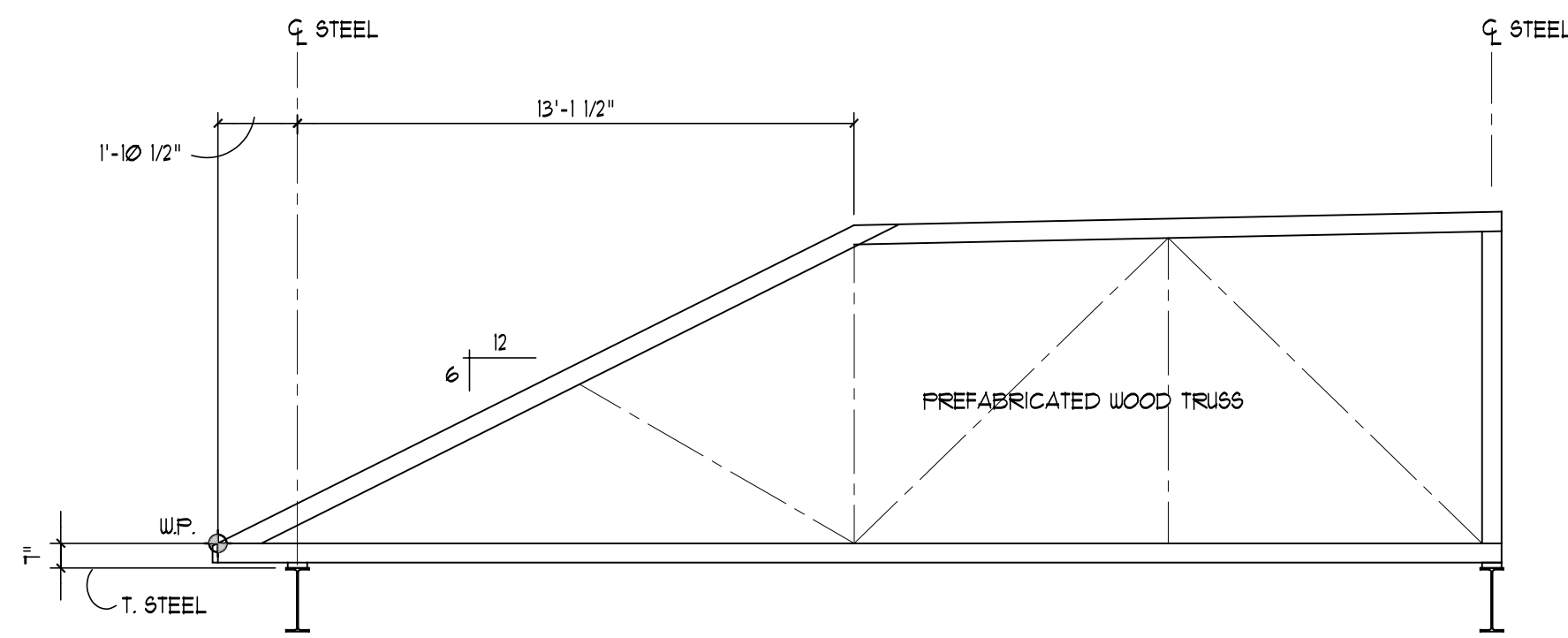
Additions and Renovations

State Project Number #067-029-EA

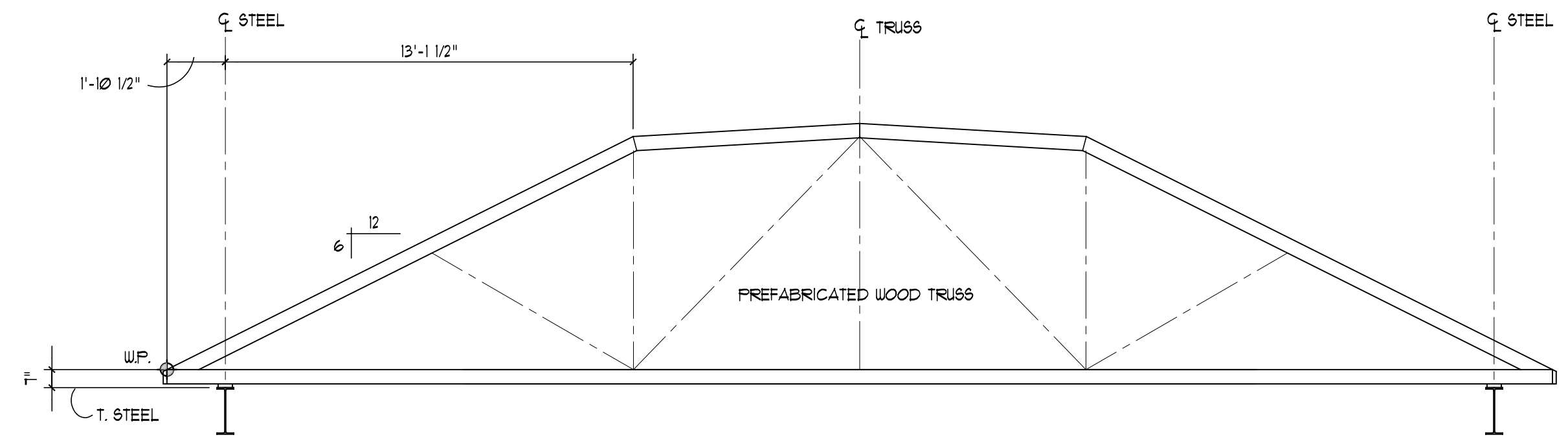
S5.3



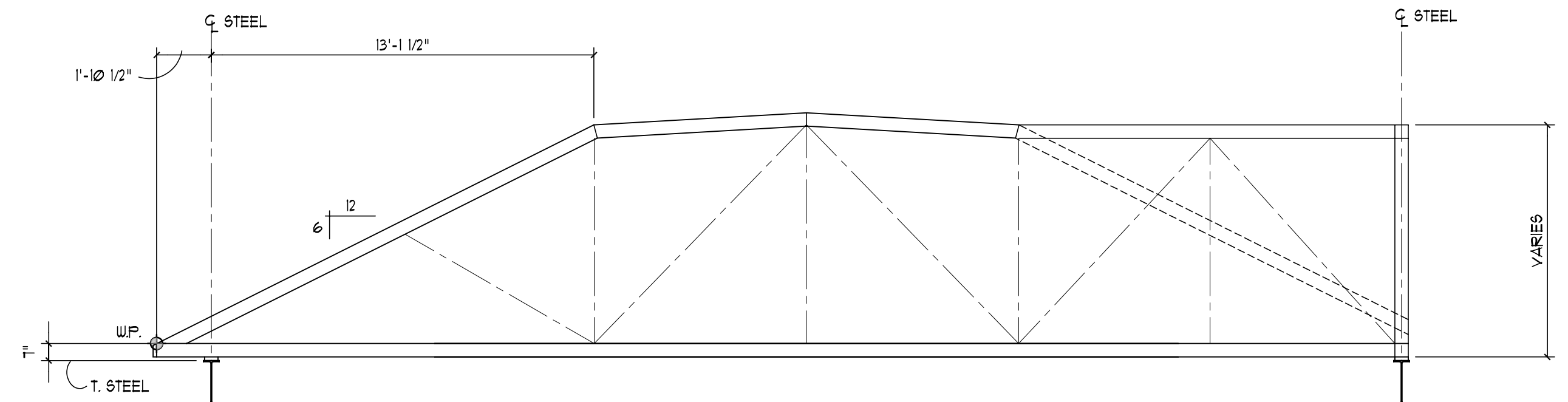
TRUSS TYPE 'D'



TRUSS TYPE 'C'

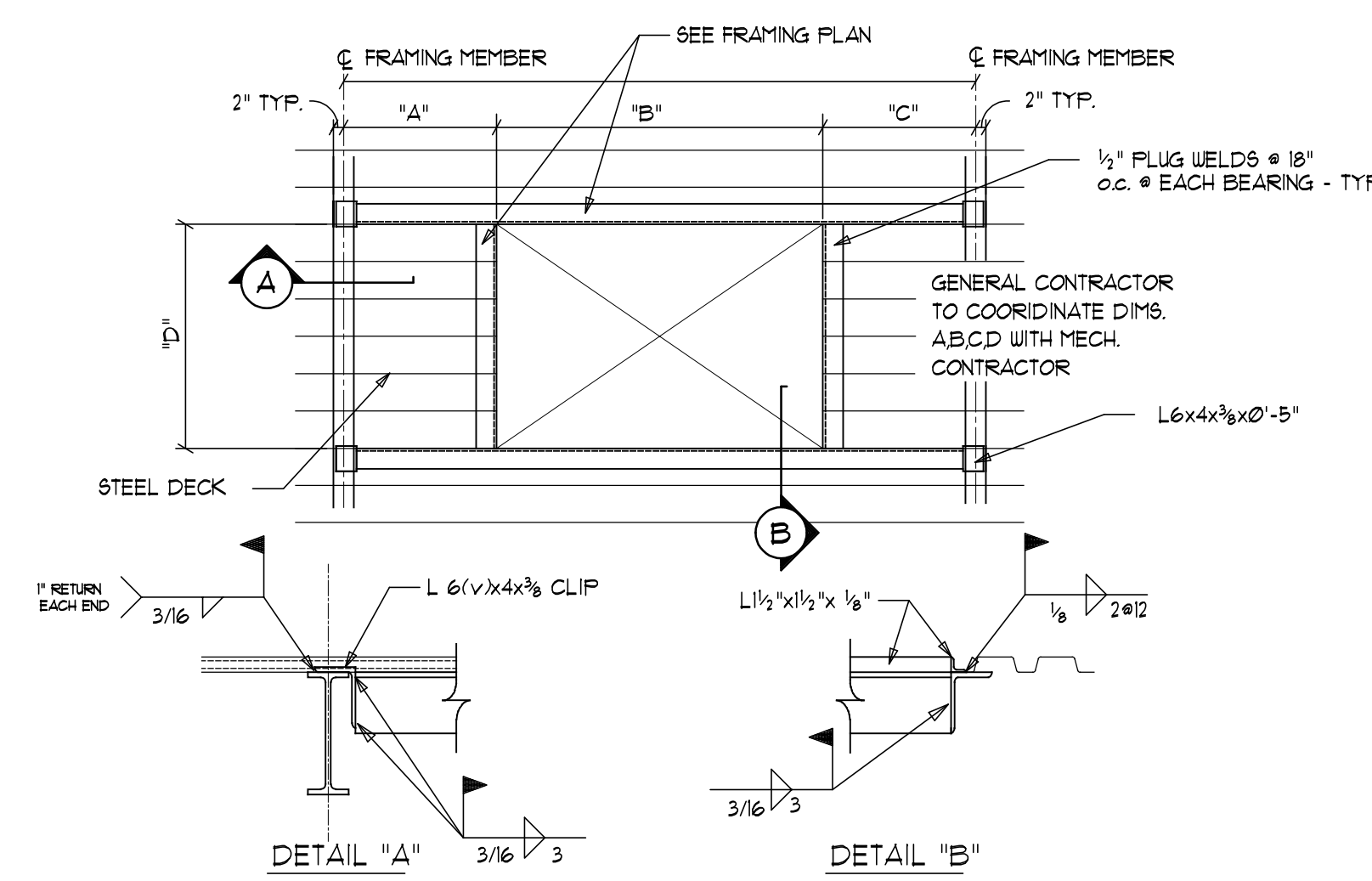


TRUSS TYPE 'B'

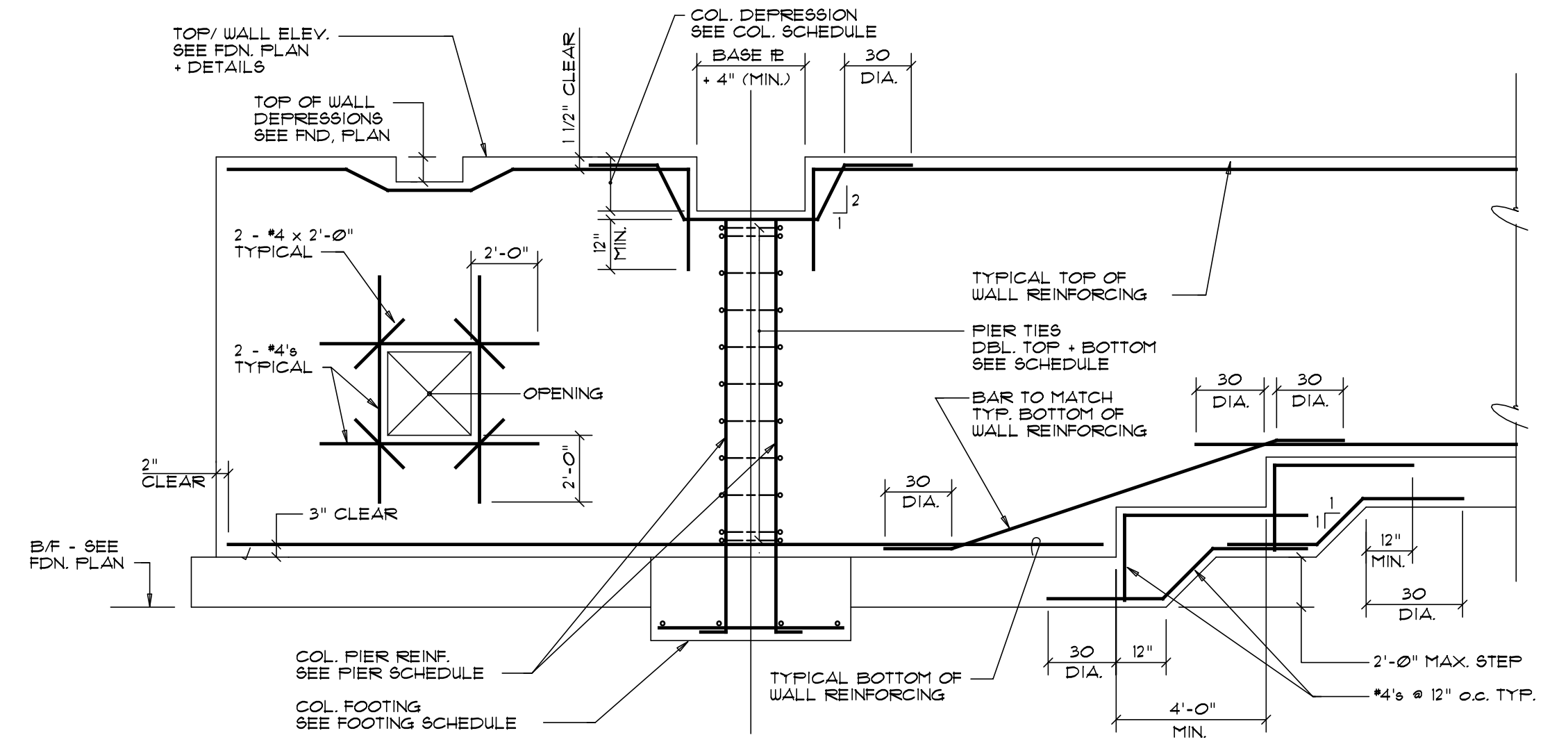


TRUSS TYPE 'A'

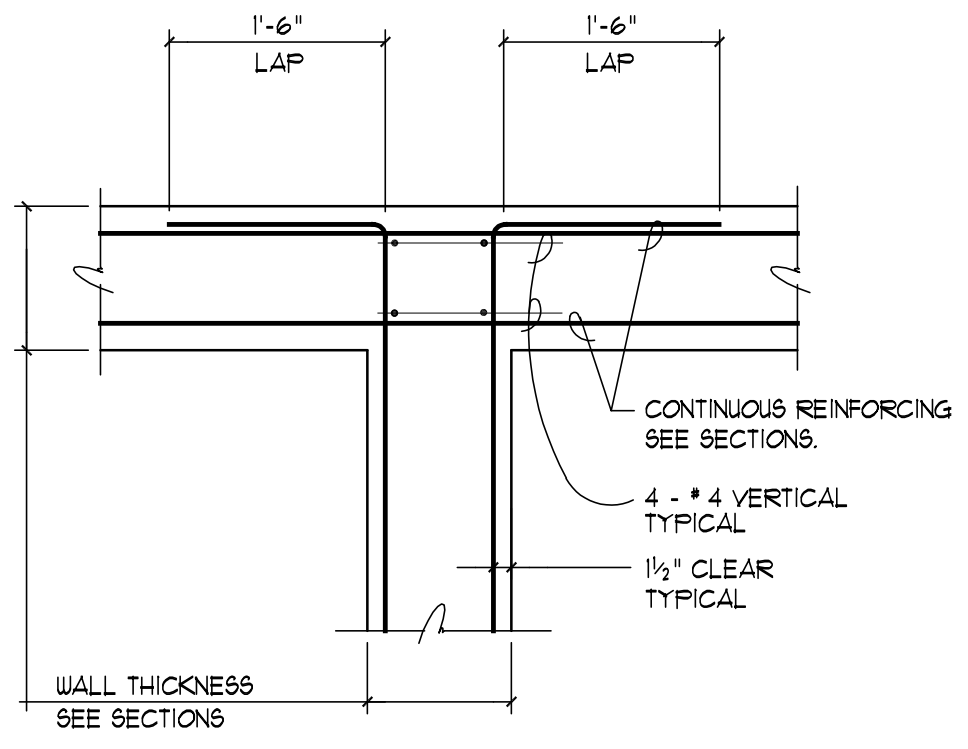
WOOD ROOF TRUSS PROFILES
NOT TO SCALE



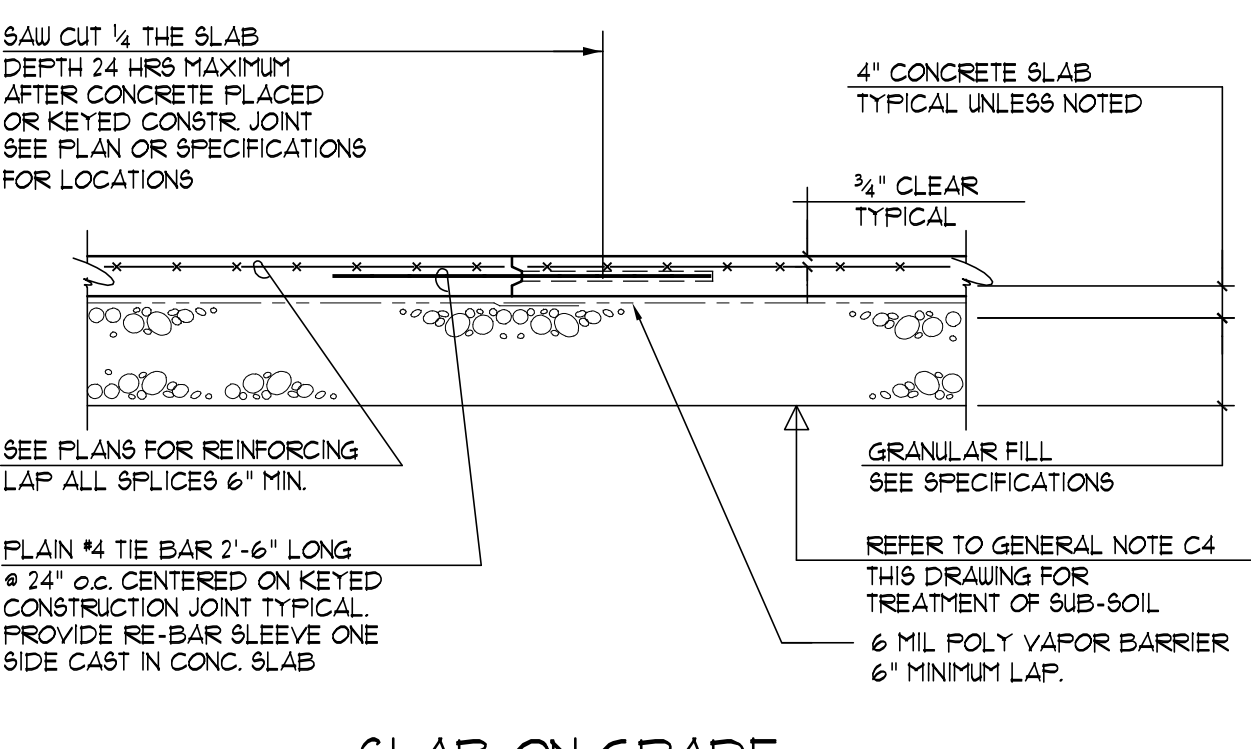
TYPICAL DECK SUPPORT @ ROOF PENETRATIONS



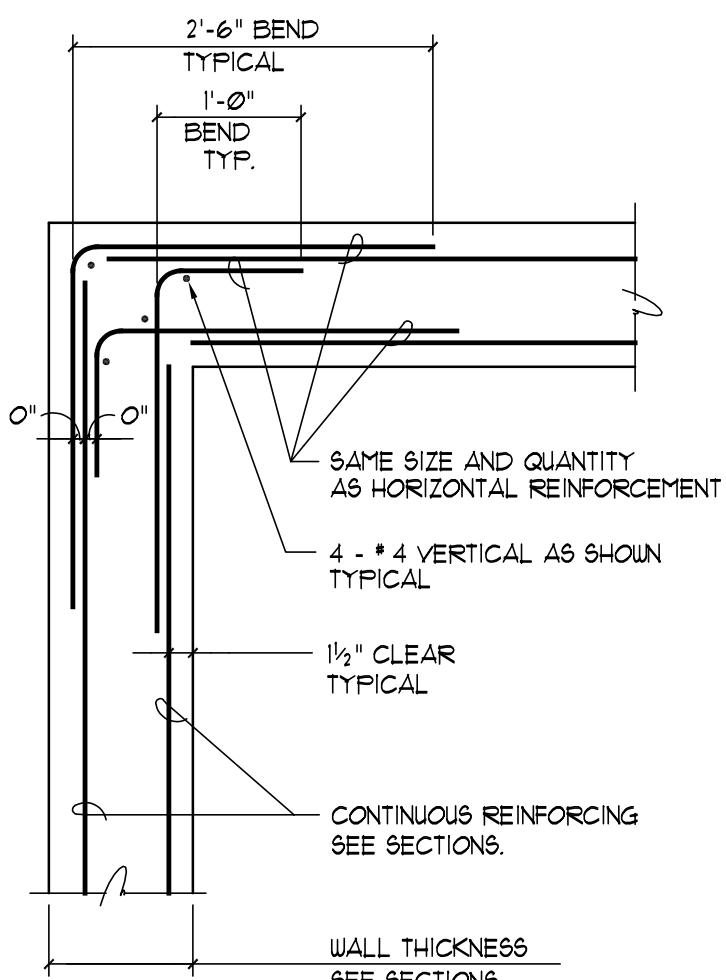
LOCATION OF REBARS IN CONCRETE & WALLS
NOT TO SCALE



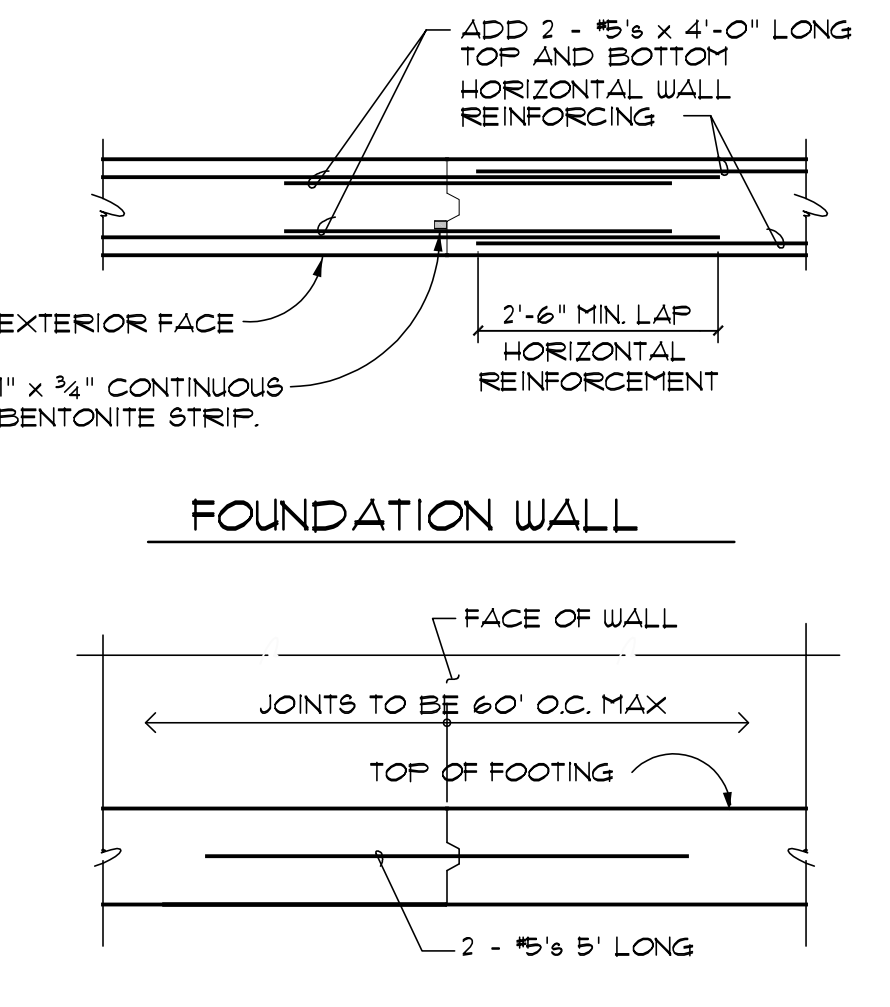
RE-ENTRANT CORNER



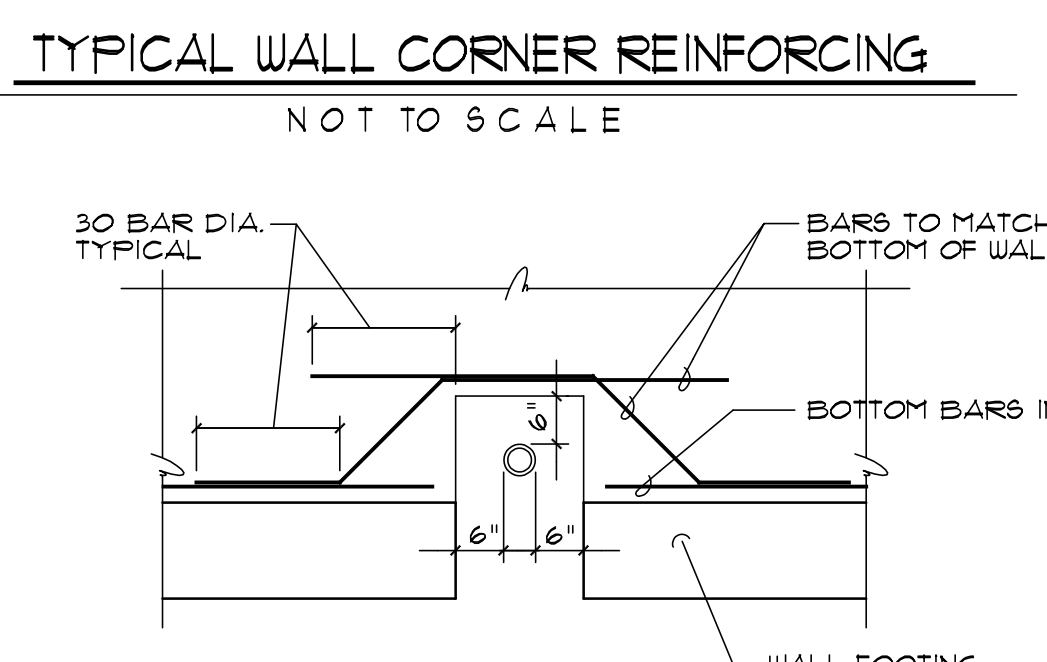
SLAB ON GRADE



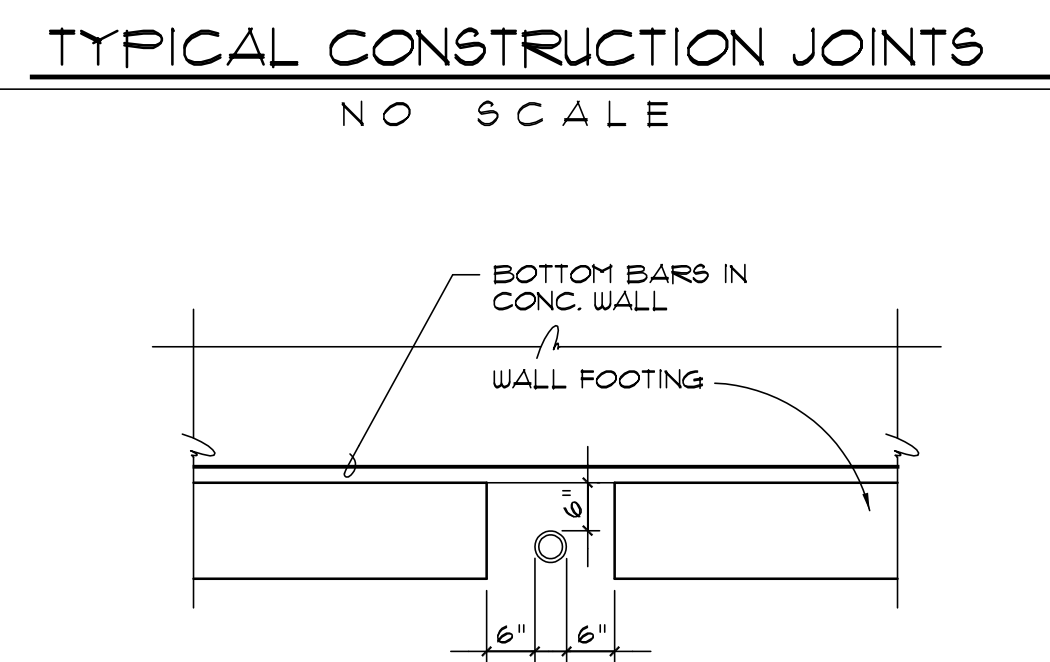
EXTERIOR CORNER



FOUNDATION WALL



TYPICAL WALL CORNER REINFORCING
NOT TO SCALE



TYPICAL CONSTRUCTION JOINTS
NOT TO SCALE



WALL PIPE PENETRATION DETAIL
NOT TO SCALE

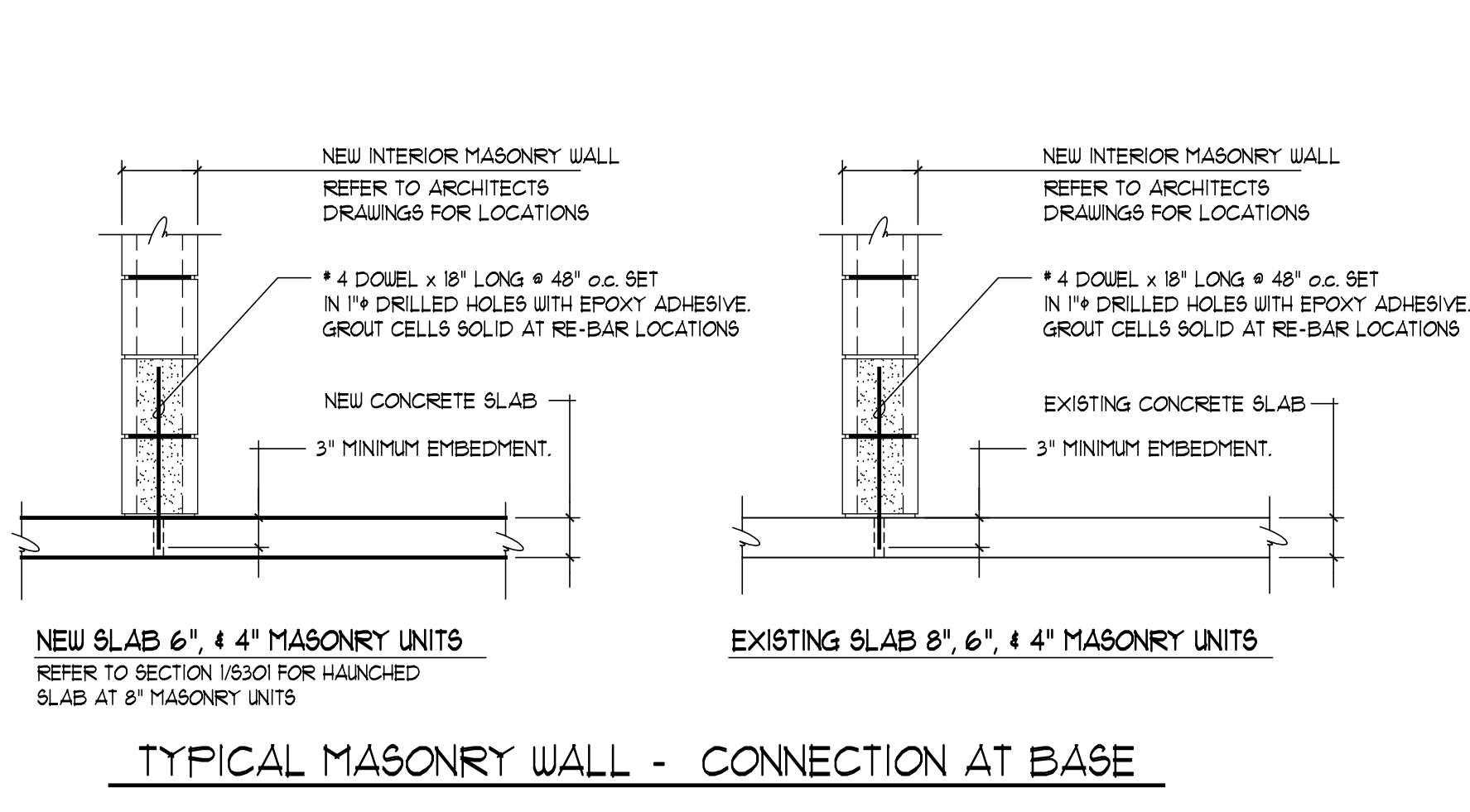


FOOTING PIPE PENETRATION DETAIL
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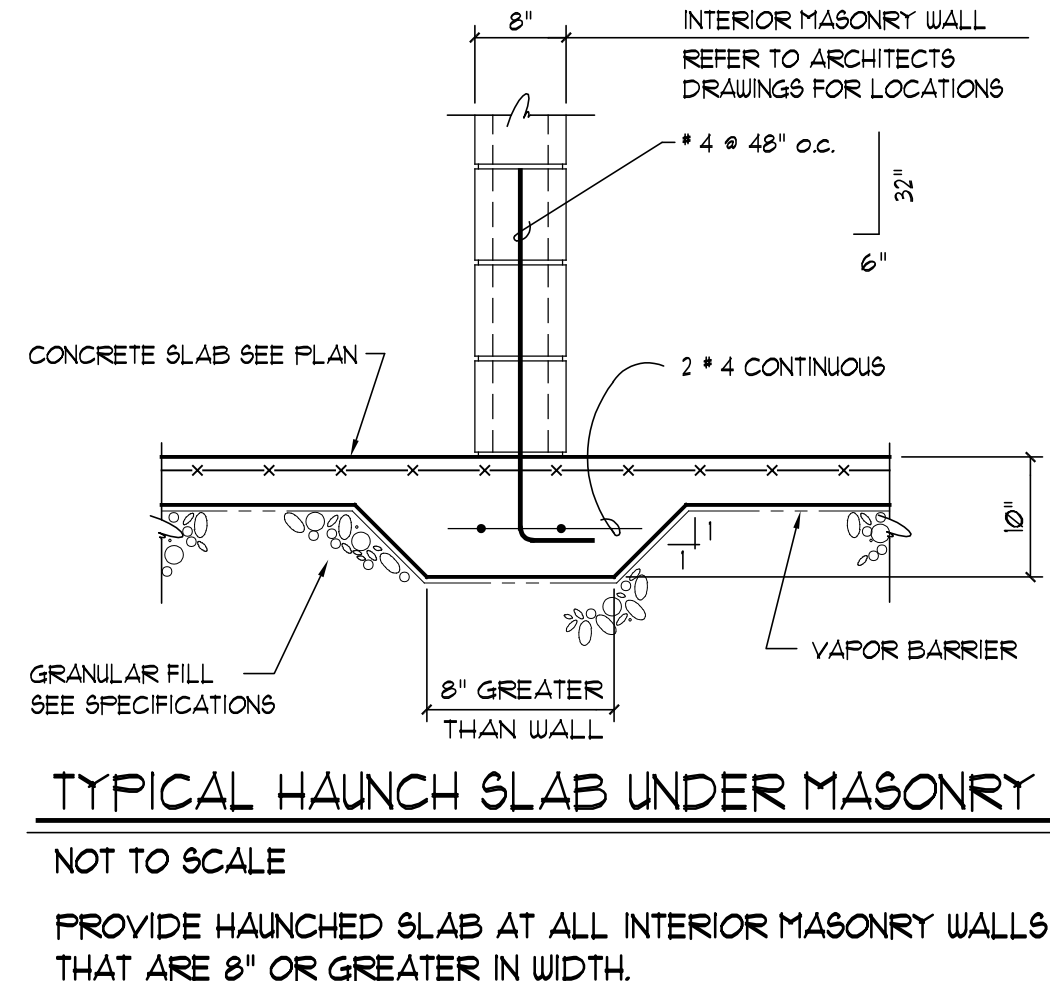
DESIGN DATA						
CODES USED -		STRESSES USED -		STRUCTURAL STEEL -		
1990 BOCA CODE WITH 1992 BOCA SUPPLEMENT AND 1994 CONNECTICUT SUPPLEMENT		CONCRETE -		BEAMS, GIRDERS & UP COLUMNS		
NEW ENGLANDS-88 WITH '88 SUPPLEMENT		FOUNDATION FOOTINGS		ASTM F _y 500 k.s.i.		
A.I.S.C. ASD-89		SLAB ON GRADE		TUBE STEEL COLUMNS		
A.C.I. 318-85, A.C.I. 318-15		SLAB ON METAL DECK		ASTM A500, GRADE B		
A.C.I. 318-85, A.C.I. 318-15		REINFORCING STEEL		F _y 46.0 k.s.i.		
A.C.I. 330/ACI 308-88		TYPICAL BLOCK WALLS		F _y 1500 p.s.f.		
A.C.I. 330/ACI 308-88				MISC. SHAPES		
STEEL DECK INSTITUTE REQUIREMENTS				ASTM A-36, F _y 36.0 k.s.i.		
				STEEL JOISTS -		
				SJI-1-90		
LOADS						
LOCATION	LIVE LOAD	SLAB DECK	ROOFING FINISH	CEILING FRAMING	MISC.	TOTAL P.S.F.
ROOF - STEEL	30 ^l	3	13	5	5	63
ROOF - WOOD	30 ^l	3	13	5	5	63
STAIRS	150	52			5	207
MECHANICAL	125	52	3	5	5	197
LOADING TO BE INCREASED IN AREAS OF SNOW DRIFTING AS REQUIRED BY CONNECTICUT STATE BUILDING CODE AND FOR PONDING AT APPLICABLE AREAS.						
DESIGN PARAMETERS - WIND, SNOW, AND EARTHQUAKE						
GROUND SNOW LOAD -		300 P.S.F.				
SNOW EXPOSURE FACTOR (TABLE 1111.4a)		0.9				
SNOW IMPORTANCE FACTOR (TABLE 1111.4b)		1.0				
WIND SPEED -		85.0 M.P.H.				
WIND EXPOSURE CLASSIFICATION (SECTION 1112.3.3)		B				
BUILDING CATEGORY FOR WIND (TABLE 1112.2.2b)		I				
WIND IMPORTANCE FACTOR		1.03				
EFFECTIVE VELOCITY PRESSURE -		0-20 ft.		F _s = 200 p.s.f.		
		20-40 ft.		F _s = 210 p.s.f.		
SEISMIC DATA						
PEAK VELOCITY - RELATED ACCELERATION (SECTION 1113.13)		A _v = 0.13				
PEAK ACCELERATION (SECTION 1113.13)		A _s = 0.13				
SEISMIC HAZARD EXPOSURE GROUP (TABLE 1113.15)		GROUP II				
SEISMIC PERFORMANCE CATEGORY (SECTION 1113.11)		C				
SOIL - PROFILE TYPE (GEOTECHNICAL REPORT)		S+10				
BASIC STRUCTURAL SYSTEM		DUAL SYSTEM WITH AN ORDINARY MOMENT FRAME OF STEEL CAPABLE OF RESISTING 25% OF THE PRESCRIBED SEISMIC FORCES				
SEISMIC - RESISTING SYSTEM		CENTRICALLY BRACED FRAMES				
RESPONSE MODIFICATION FACTOR (TABLE 1113.3.1)		R = 5				
DEFLECTION AMPLIFICATION FACTOR (TABLE 1113.3.3)		C _d = 4 1/2				
ANALYSIS PROCEDURE UTILIZED		EQUIVALENT LATERAL FORCE.				

GENERAL NOTES

- A. FILL AND BACKFILL**
- ALL AREAS WITHIN THE STRUCTURE WILL BE STRIPPED OF EXISTING MATERIALS BEFORE FILLING TO REQUIRED GRADES. FILL WILL BE PLACED IN 8" LAYERS AND COMPACTED WITH MECHANICAL VIBRATORS TO A MINIMUM OF 95% PROCTOR DENSITY AS DEFINED BY ASTM D1557.
 - PROVIDE 6" COMPACTED GRANULAR FILL UNDER ALL SLABS ON GRADE. A VAPOR BARRIER IS TO BE PLACED OVER THE FILL UNDER ALL INTERIOR SLABS ON GRADE.
 - NO WALLS ARE TO BE BACKFILLED UNTIL CONCRETE HAS BEEN IN PLACE A MINIMUM OF 1 DAYS, UNLESS DIRECTED BY THE RESIDENT ENGINEER.
- B. CONCRETE**
- CONCRETE STRENGTH AT 28 DAYS SHALL BE AS INDICATED IN DESIGN DATA.
 - PROTECTIVE COVER, SPLICE LAP AND EMBEDMENT FOR REINFORCING STEEL SHALL BE PER ACI SPECIFICATION.
 - CONTINUOUS WALL POURS SHALL NOT EXCEED 40 FEET IN ONE DIRECTION. SEE TYPICAL DETAIL THIS SHEET.
 - SLABS ON GRADE WILL BE PLACED OVER A VAPOR BARRIER. CONTROL JOINTS TO BE LOCATED AS SHOWN ON PLANS.
 - ALL CONCRETE WALLS ARE TO BE REINFORCED. IF NOT SHOWN PROVIDE 2 # 6 BARS TOP AND BOTTOM CONTINUOUS AND # 4 BARS AT 18" ON CENTER BOTH WAYS BOTH FACES.
 - CONSTRUCTION JOINTS FOR FRAMED CONCRETE SLABS SHALL BE PLACED AS DIRECTED BY THE RESIDENT ENGINEER. SEE DETAIL BELOW.
- C. FOOTINGS**
- ELEVATION OF BOTTOM OF FOOTINGS TO BE VERIFIED WITH FIELD CONDITIONS.
 - ALL FOOTINGS TO BEAR ON FIRM UNDISTURBED SOIL HAVING A SAFE BEARING CAPACITY AS STATED IN DESIGN DATA.
 - ALL WALL FOOTINGS ARE TO BE 1'-0" DEEP AND EXTEND 6" BEYOND EACH FACE OF WALL UNLESS NOTED OTHERWISE.
 - THE SUBGRADE IN FOOTING EXCAVATIONS SHALL BE COMPACTED WITH A MINIMUM OF FOUR (4) COVERAGES USING HAND-GUIDED VIBRATORY COMPACTION EQUIPMENT. SOFT OR LOOSE MATERIALS SHALL BE REMOVED AND REPLACED WITH COMPACTED GRANULAR FILL.
- D. STRUCTURAL STEEL**
- STANDARD DOUBLE ANGLE CONNECTIONS ARE TO BE USED FOR STEEL FRAMING INTO STEEL UNLESS OTHERWISE NOTED. CONNECTIONS ARE TO BE ADEQUATE FOR INCREASED REACTIONS WHEN DUE TO REQUIREMENTS OF CONCENTRATED LOADS NEAR ENDS OF BEAMS. ALL PIPE CONNECTIONS ARE TO BE CONSTRUCTED WITH THRU PLATES.
 - ALL ENDS OF COLUMNS AT SPLICES AND AT CAP AND BASE PLATES SHALL BE MILLED TO COMPLETE THE BEARING.
 - ALL CONNECTIONS TO BE SELECTED TO SUPPORT THE UNIFORM LOAD TABLE'S MAXIMUM UNIFORM LOAD AS CALLED FOR IN THE A.I.S.C. UNLESS THE REACTIONS ARE INDICATED ON THE PLANS.
 - ALL WELDING TO BE PERFORMED BY AUB CERTIFIED WELDERS AND IN ACCORDANCE WITH ALL AUB STANDARDS.
 - ALL WELDING TO BE PERFORMED USING E70-XX ELECTRODES.
 - THE STEEL ERECTOR IS RESPONSIBLE FOR SUPPLYING TEMPORARY BRACING AND GUYING ON CONCRETE AND STEEL FRAMING UNTIL ALL CONNECTIONS, FLOOR SLABS AND MASONRY WALLS HAVE BEEN COMPLETED. BRACING SHALL NOT BE REMOVED UNLESS DIRECTED BY THE ENGINEER.
- E. SLAB AND ROOF OPENINGS**
- VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. FRAME ALL OPENINGS NOT SHOWN 4x4x3/16 ANGLES. CONTRACTOR IS TO COORDINATE ALL OPENINGS WITH MECHANICAL.
- F. LINTELS**
- PROVIDE LINTELS FOR ALL MASONRY OPENINGS UNLESS OTHERWISE INDICATED.
 - ALL LINTELS TO BEAR A MINIMUM OF 8" AT EACH END.
 - ALL EXPOSED LINTELS SHALL BE HOT DIPPED GALVANIZED.



TYPICAL MASONRY WALL - CONNECTION AT BASE



TYPICAL HAUNCH SLAB UNDER MASONRY
NOT TO SCALE
PROVIDE HAUNCH SLAB AT ALL INTERIOR MASONRY WALLS THAT ARE 8" OR GREATER IN WIDTH.

Architects
C.J. Lawler Associates
7 South Main Street, West Hartford, Connecticut 06114
(860) 233-8526 FAX: (860) 231-9063

GIRARD & CO. ENGINEERS
Structural Engineers
40 Waterfield Avenue, Hartford, Connecticut 06114
(860) 524-5196 FAX: (860) 548-1465

M.R. ROMING ASSOCIATES
Landscape Architects-Land Planners
224 Whiting Lane, West Hartford, Connecticut 06119
(860) 233-1265 FAX: (860) 523-0191

van ZELM HEYWOOD & SHADFORD INC
Mechanical and Electrical Engineers
29 South Main Street, West Hartford, Connecticut 06107
(860) 521-4329 FAX: (860) 521-3520

FOOD SERVICE DESIGN
Food Service
P. O. Box 18191, East Hartford, CT 06118
(860) 528-7101 FAX: (860) 528-8839

ENVIRO SAFE
Safety and Environmental Health Consultant Services
7 Rogers Lake Trail, Old Lyme, Connecticut 06371
(860) 434-8383 FAX: (860) 434-0036

CLARK ENGINEERING
Engineering Services
P. O. Box 419, Granby, CT 06035
(860) 653-4352 FAX: (860) 653-8256

MEGSON & HEAGLE
Civil Engineers Land Surveyors
81 Rankin Road, Glastonbury, CT 06033
(860) 659-0587 FAX: (860) 657-4429

01	BID	ISSUE	4-30-99
No.		Description	Date

TYPICAL DETAILS AND DESIGN DATA

Scale: AS NOTED Drawn By: KA
Date: 12-1-98 Checked By: MG

Hebron Elementary School
Hebron, Connecticut
Additions and Renovations
JULY 6 1998
State Project Number #067-029-EA

S6.1



C.J. Lawler Associates
 7 South Main Street, West Hartford, Connecticut 06107
 (860) 233-8525 FAX: (860) 231-3063

GIRARD & CO. ENGINEERS
 Structural Engineers
 40 Wetherfield Avenue, Hartford, Connecticut 06114
 (860) 524-5196 FAX: (860) 546-1463

M.R. ROMING ASSOCIATES
 Landscape Architects-Land Planners
 224 Whiting Lane, West Hartford, Connecticut 06119
 (860) 233-1265 FAX: (860) 523-0191

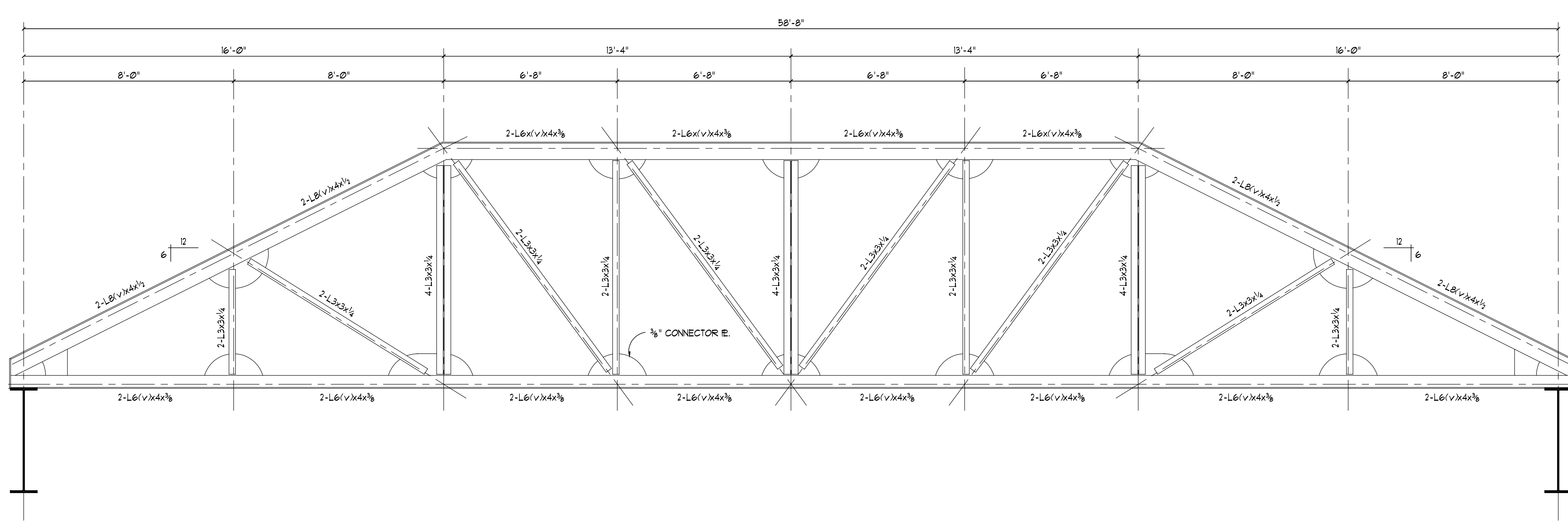
van ZELM HEYWOOD & SHADFORD INC
 Mechanical and Electrical Engineers
 29 South Main Street, West Hartford, Connecticut 06107
 (860) 521-4329 FAX: (860) 521-5620

FOOD SERVICE DESIGN
 Food Service
 P. O. Box 18191, East Hartford, CT 06118
 (860) 528-7101 FAX: (860) 528-8839

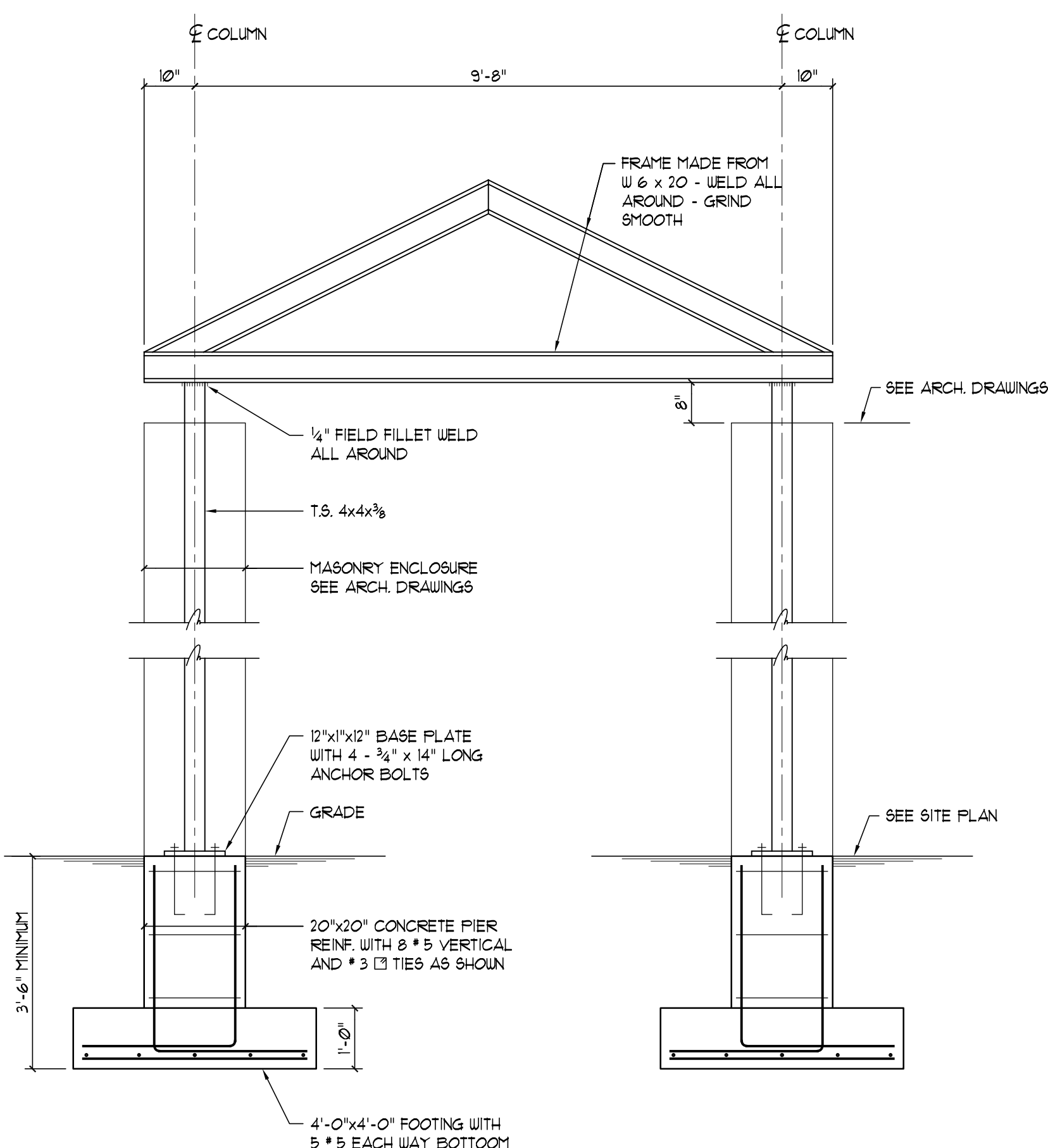
ENVIRO SAFE
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 (860) 434-8383 FAX: (860) 434-0036

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STEEL ROOF TRUSS
 NOT TO SCALE

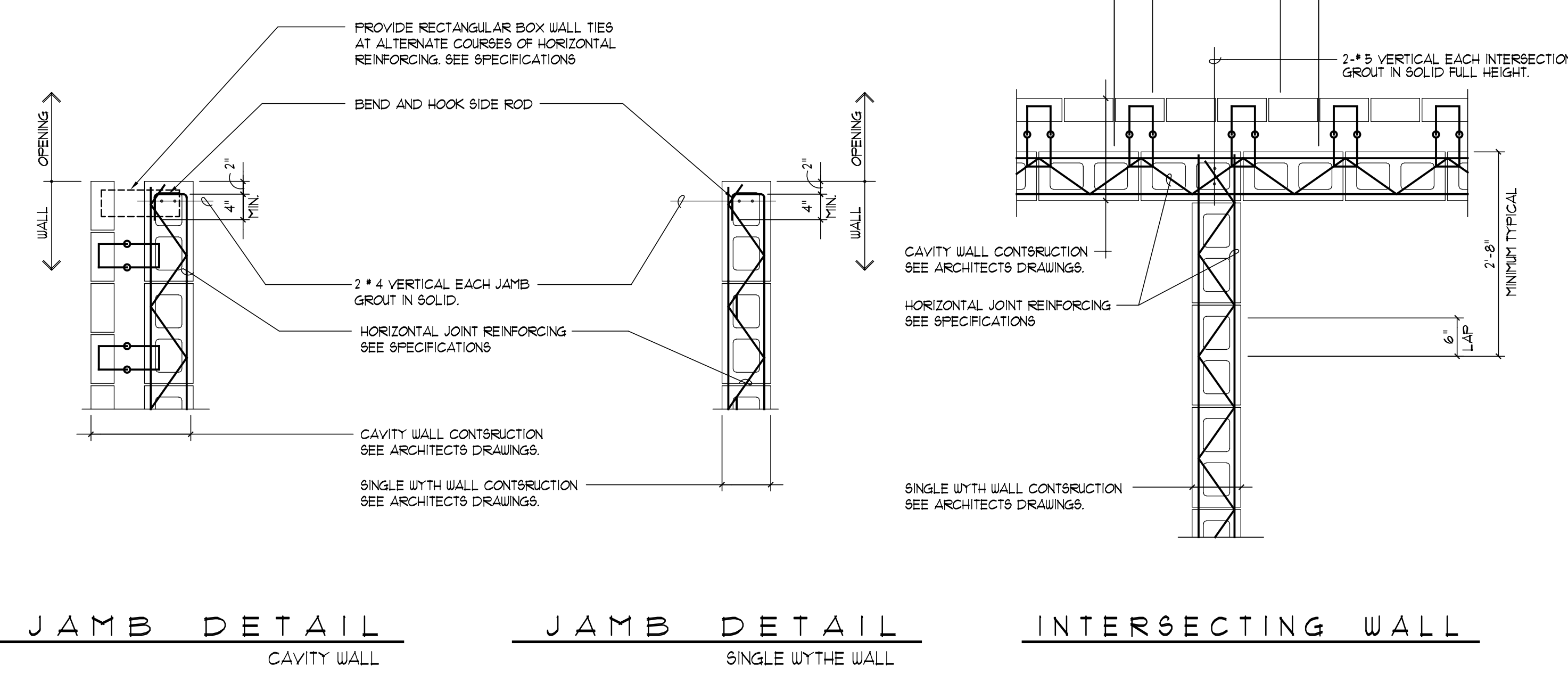


SECTION / PORTAL STRUCTURE
 1/2" = 1'-0"

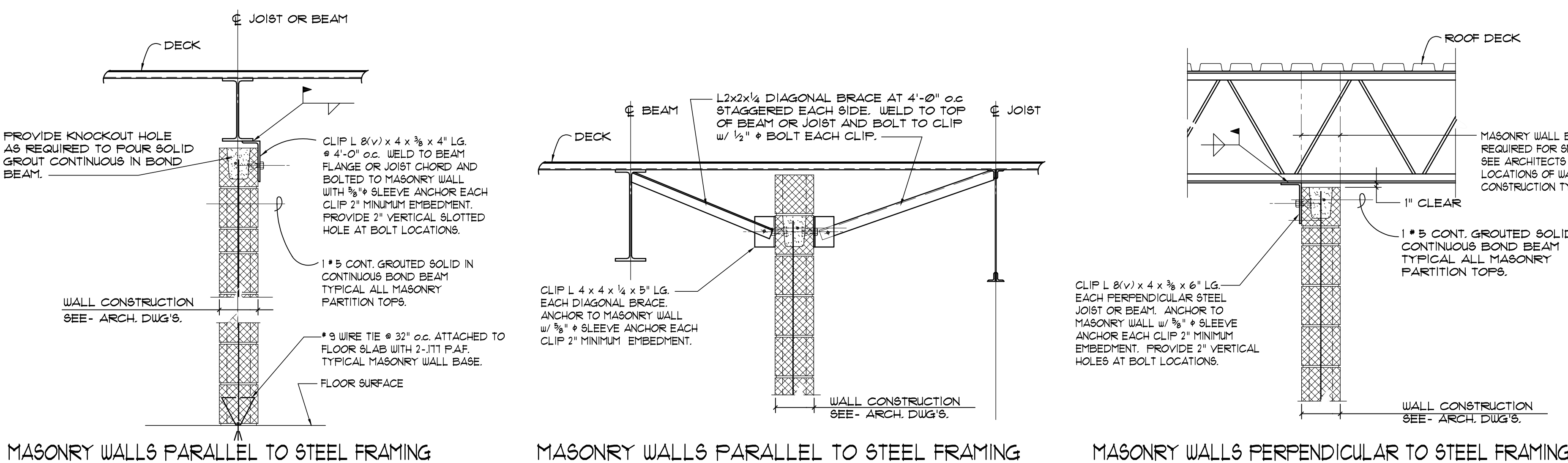
WALL TYPE & HEIGHT	HORIZONTAL REINFORCING	VERTICAL REINFORCING	REMARKS
EXTERIOR WALLS	UP TO 14'-0" WIRE TYPE SEE TYP. DETAIL	* 4 @ 48" O.C.	GROUT VOIDS SOLID REINFORCING
	UP TO 26'-0" WIRE TYPE SEE TYP. DETAIL	* 5 @ 48" O.C.	PROVIDE CONC FILLED HORIZ BOND BEAMS @ 8'-0" O.C.
INTERIOR WALLS	UP TO 14'-0" WIRE TYPE SEE TYP. DETAIL	NO REIN. UNO.	RESTRAIN TOP & BOTTOM SEE TYPICAL DETAILS FOR MASONRY CONNECTIONS
	UP TO 26'-0" WIRE TYPE SEE TYP. DETAIL	NO REIN. UNO.	D.O.
	UP TO 12'-0" WIRE TYPE SEE TYP. DETAIL	NO REIN. UNO.	D.O.
	UP TO 18'-0" WIRE TYPE SEE TYP. DETAIL	NO REIN. UNO.	D.O.
	UP TO 10'-0" MAX WIRE TYPE SEE TYP. DETAIL	NO REIN. UNO.	RESTRAIN TOP & BOTTOM SEE TYPICAL DETAILS FOR MASONRY CONNECTIONS

4. INDICATES DISTANCE FROM FLOOR TO POINT OF SUPPORT ABOVE FLOOR

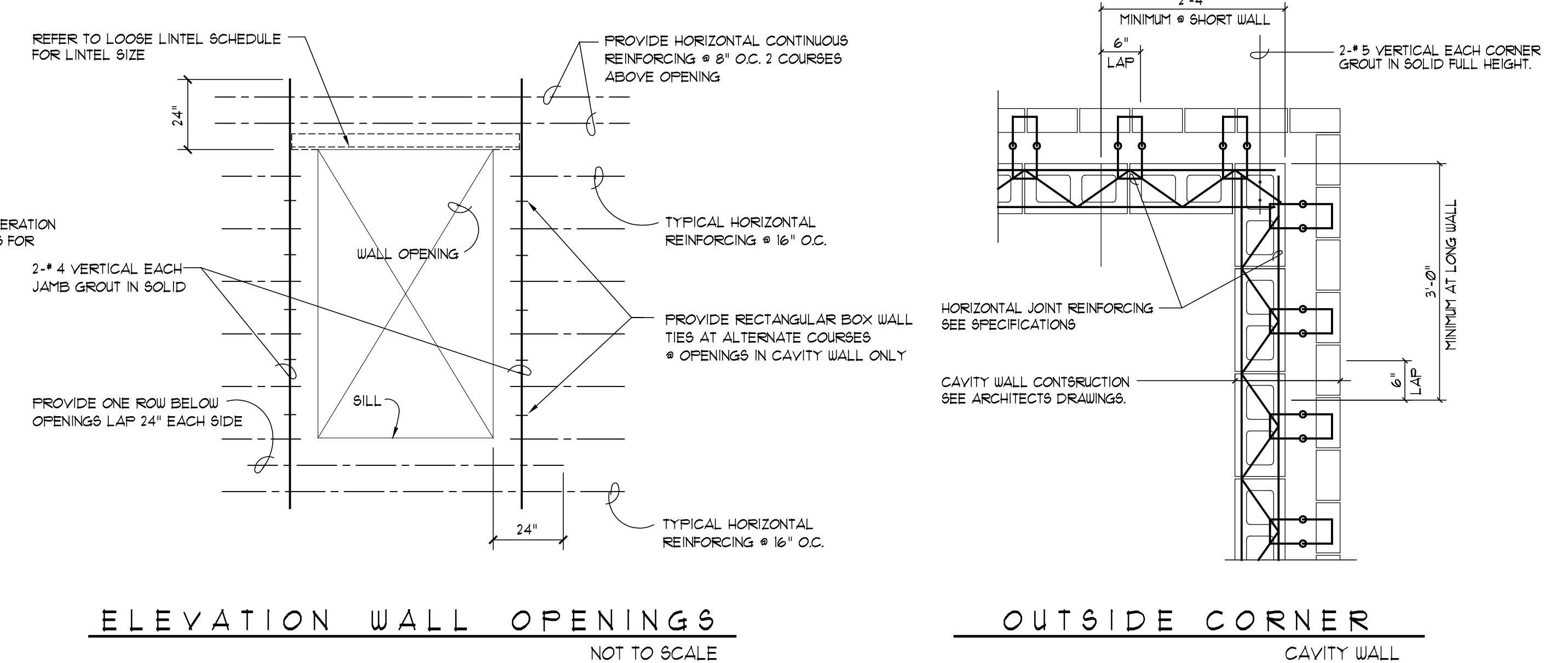
NOTES:
 1. GROUT SHALL BE USED FOR FILLING VOIDS IN MASONRY & REINFORCING LOCATIONS. (DO NOT USE MORTAR) SEE SPECIFICATIONS FOR GROUT PROPORTIONS.
 2. CONCRETE FOR FILLING HORIZONTAL BOND BEAMS SHALL BE 2500 p.s.i. @ 28 DAYS MAX AGGREGATE SIZE TO BE 3/8". DO NOT USE MORTAR IN BOND BEAMS. CONCRETE FOR BOND BEAMS MAY BE TYPED AT SITE.
 3. REFER TO SHEET M-0502 FOR BASE OF MASONRY WALL CONNECTION AT HAUNCHED SLAB ON GRADE FOR 6" AND 4" MASONRY UNITS. SEE TYPICAL CONNECTIONS FOR MASONRY WALLS FOR 6" AND 4" MASONRY UNITS AND 8" MASONRY UNITS AT FRAMED SLABS.



JAMB DETAIL CAVITY WALL **JAMB DETAIL** SINGLE WYTHE WALL **INTERSECTING WALL**



TYPICAL INTERIOR MASONRY WALL CONNECTIONS



ELEVATION WALL OPENINGS NOT TO SCALE **OUTSIDE CORNER** CAVITY WALL

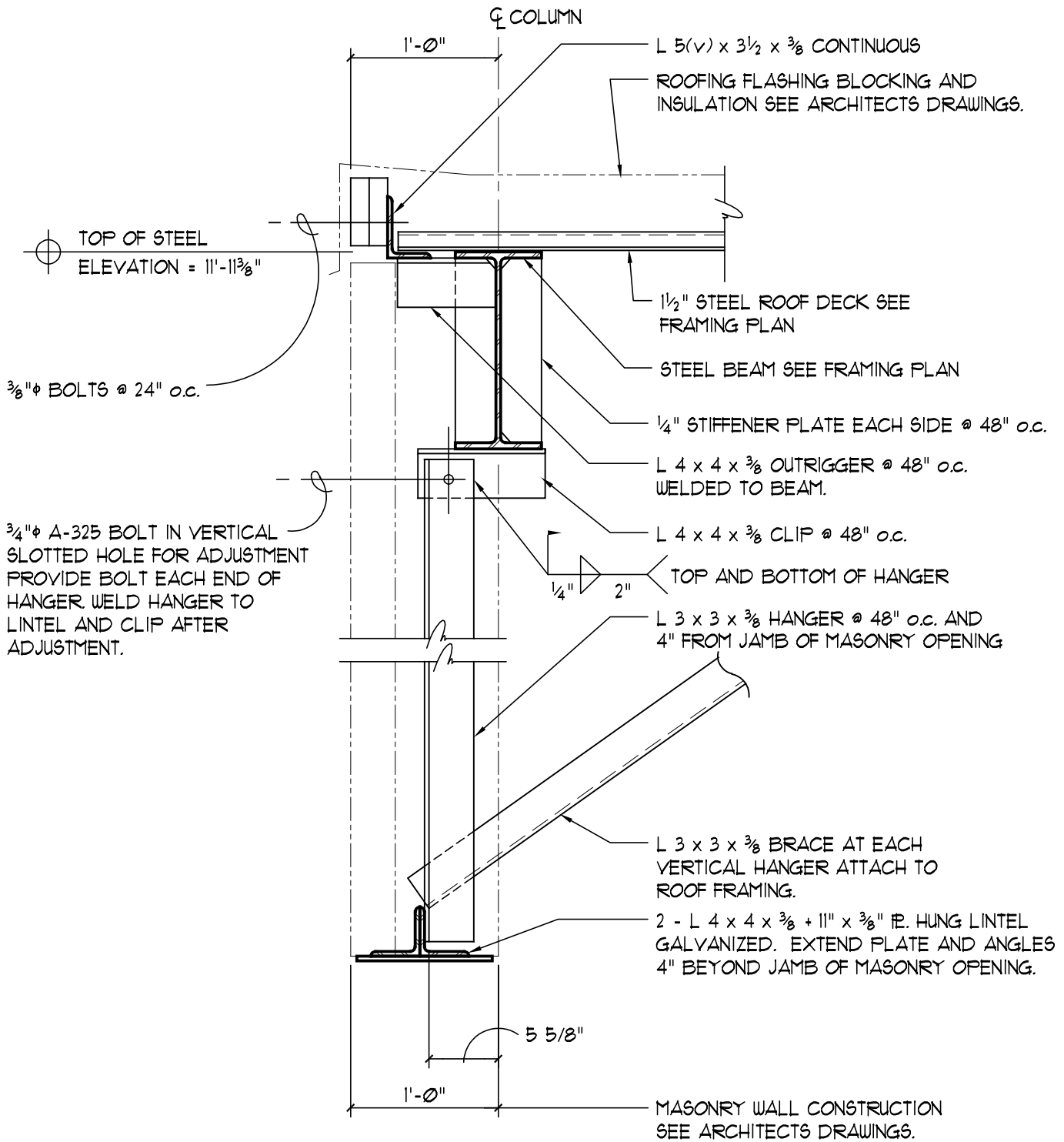
TYPICAL MASONRY WALL REINFORCEMENT DETAILS

- NOT TO SCALE
1. ALL VERTICAL REINFORCEMENT TO BE IN PLACE AND TIED BEFORE CELLS GROUTED SOLID
 2. ALL VERTICAL REINFORCEMENT TO BE PLACED IN CENTER OF MASONRY WYTHE

01	B I D	ISSUE	4-30-99
No.		Description	Date
Revisions			

TYPICAL DETAILS
 Scale: AS NOTED Drawn By: KA
 Date: 12-1-98 Checked By: MG

Hebron Elementary School
 Hebron, Connecticut
 Additions and Renovations
 State Project Number #067-029-EA



Hebron Elementary School
 Hebron, Connecticut

Additions and Renovations
 State Project Number : 067-029-EA

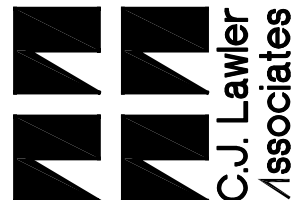
SECTION AT HUNG LINTEL
 TYPICAL

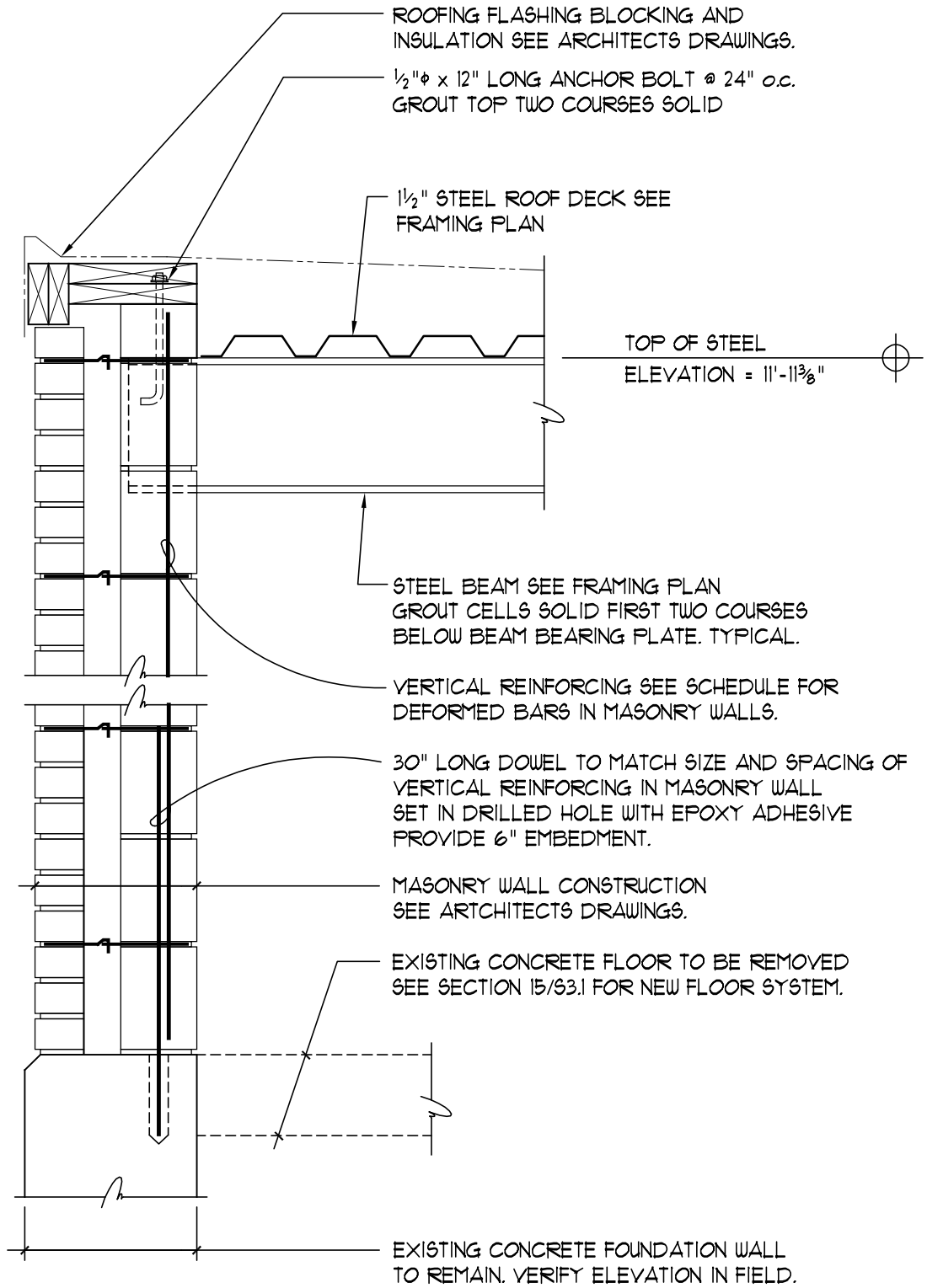
SCALE: 1" = 1'-0"

SHEET REF.: S2.1

HSK-S01

DATE: 8-12-99





Hebron Elementary School
 Hebron, Connecticut

Additions and Renovations
 State Project Number : 067-029-EA

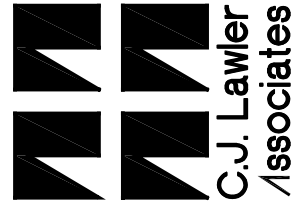
SECTION EXTERIOR WALL
 CORRIDOR 01B

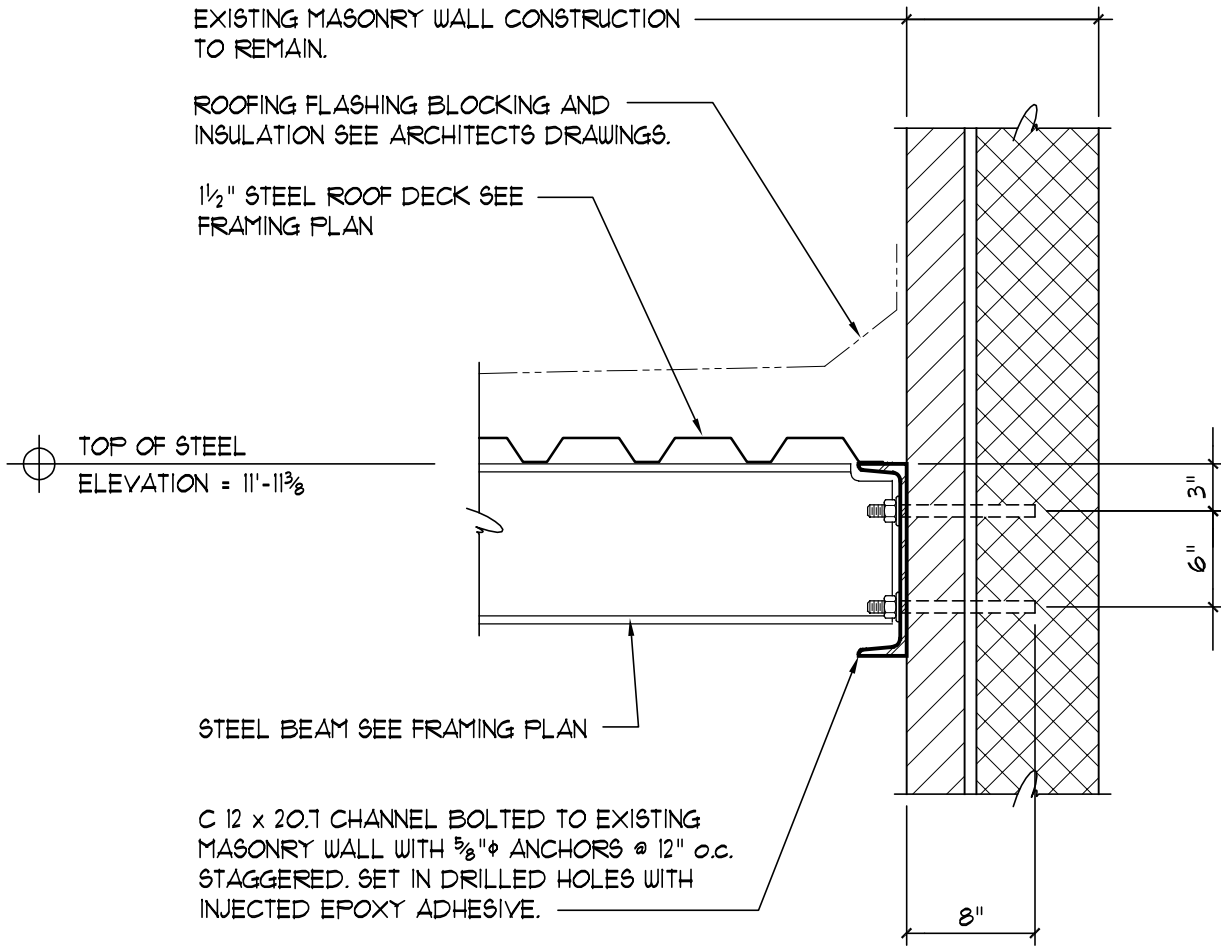
SCALE: 1" = 1'-0"

SHEET REF. : S2.1

HSK-S02

DATE: 8-12-99





Hebron Elementary School
Hebron, Connecticut

Additions and Renovations
State Project Number : 067-029-EA

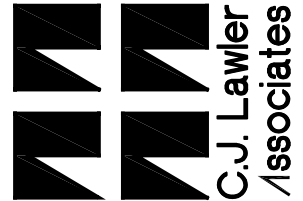
SECTION EXISTING WALL
CORRIDOR 01B

SCALE: 1" = 1'-0"

SHEET REF. : S2.1

HSK-S03

DATE: 8-12-99



ROOFING AND INSULATION
SEE ARCHITECTS DRAWINGS.

15.9

W 18 x 35 STEEL BEAM SEE FRAMING PLAN

14" STEEL JOIST

TOP OF STEEL
ELEVATION = + 26'-3"

1/2" STEEL ROOF DECK

JOIST BRIDGING PER S.J.I.
REQUIREMENTS.

MASONRY WALL ANCHOR
SEE TYPICAL DETAILS.

MASONRY WALL CONSTRUCTION
SEE ARCHITECTS DRAWINGS.

VERTICAL REINFORCING SEE
SCHEDULE FOR DEFORMED
BARS IN MASONRY WALLS.

BEND DISCONTINUOUS BAR 3"
AND WELD TO STEEL BEAM
FLANGE TYPICAL.

6" DEEP LONG SPAN ROOF DECK WITH
ACOUSTIC BOTTOM SHEET. SEE FRAMING PLAN

CONTINUOUS LIGHT GAGE CLOSURE PLATE

TOP OF STEEL
ELEVATION = + 19'-9 3/8"

STEEL TRUSS BEYOND

W 24 x 55 STEEL BEAM SEE FRAMING PLAN

CONTINUOUS 1/8" BENT CLOSURE PLATE

MASONRY WALL ANCHOR
SEE TYPICAL DETAILS.

4"

Hebron Elementary School
Hebron, Connecticut
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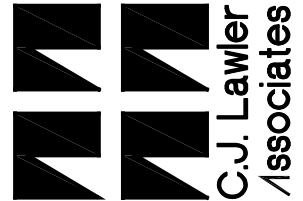
SECTION COLUMN LINE 15.9

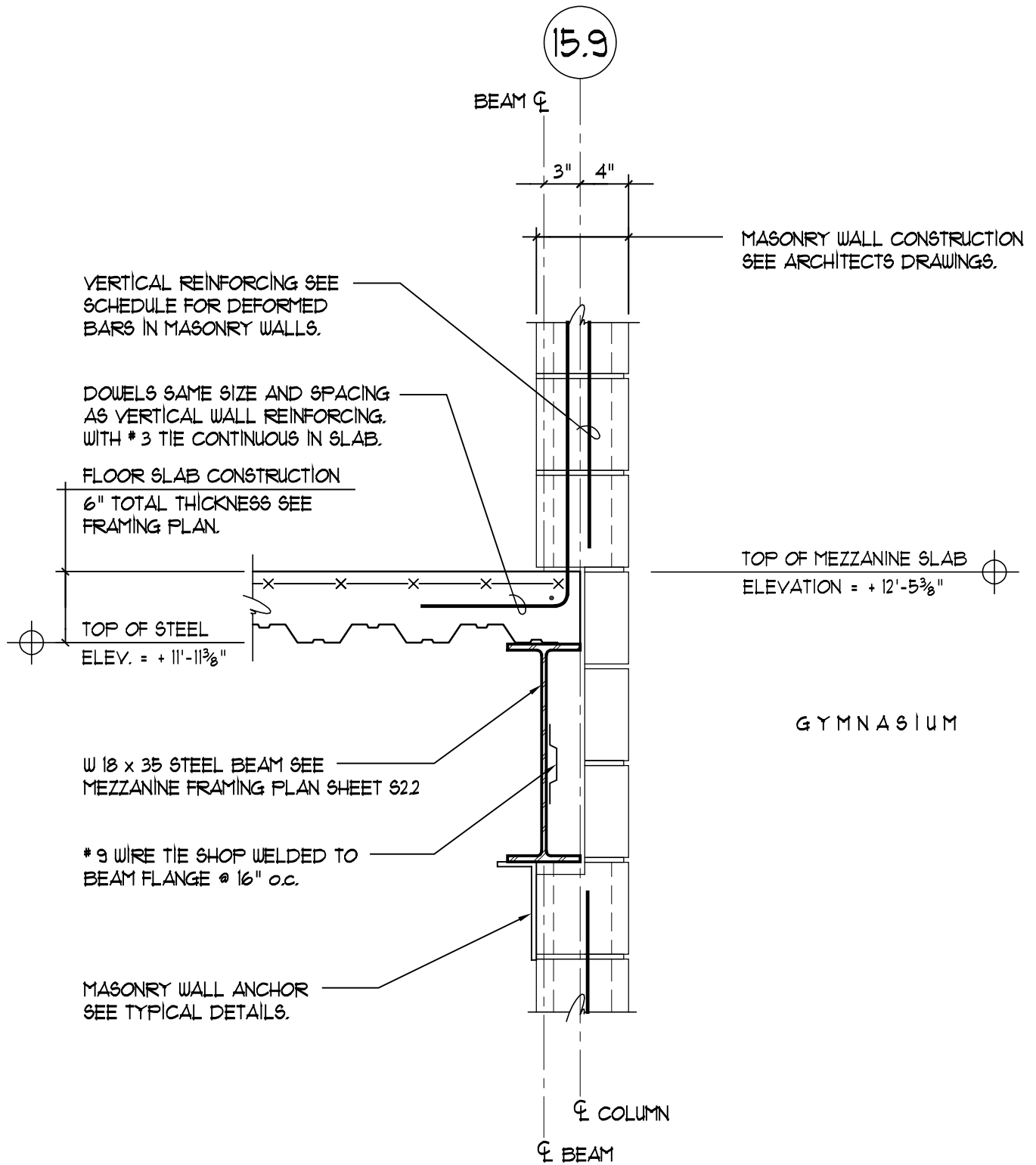
SCALE: 3/4" = 1'-0"

HSK-S04

SHEET REF. : S2.2

DATE: 8-12-99





Hebron Elementary School
Hebron, Connecticut

Additions and Renovations
State Project Number : 067-029-EA

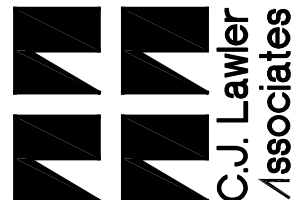
SECTION AT MEZZANINE SLAB

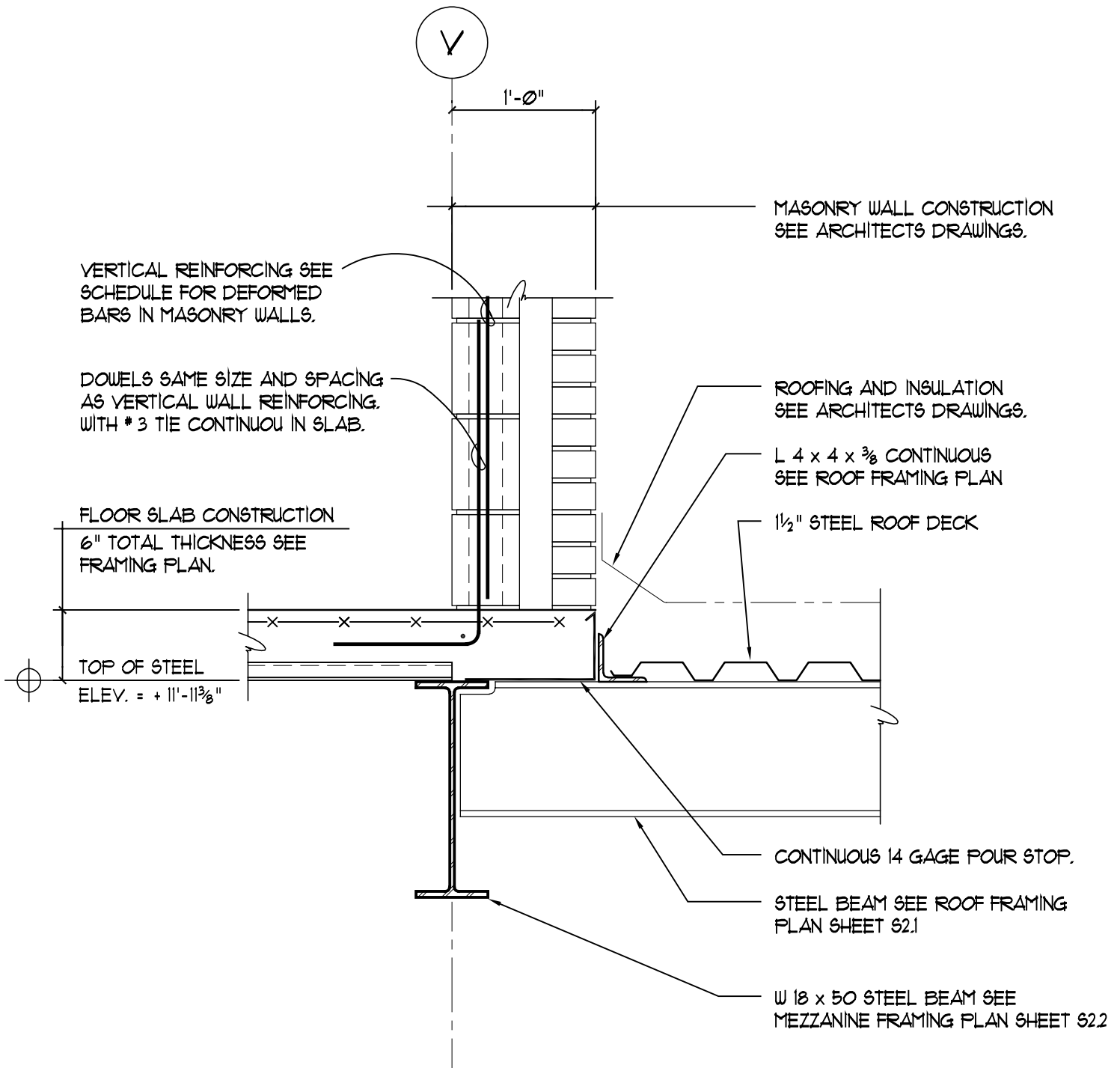
SCALE: 1" = 1'-0"

HSK-S05

SHEET REF. : S22

DATE: 8-12-99

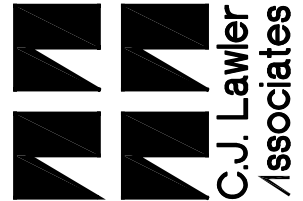




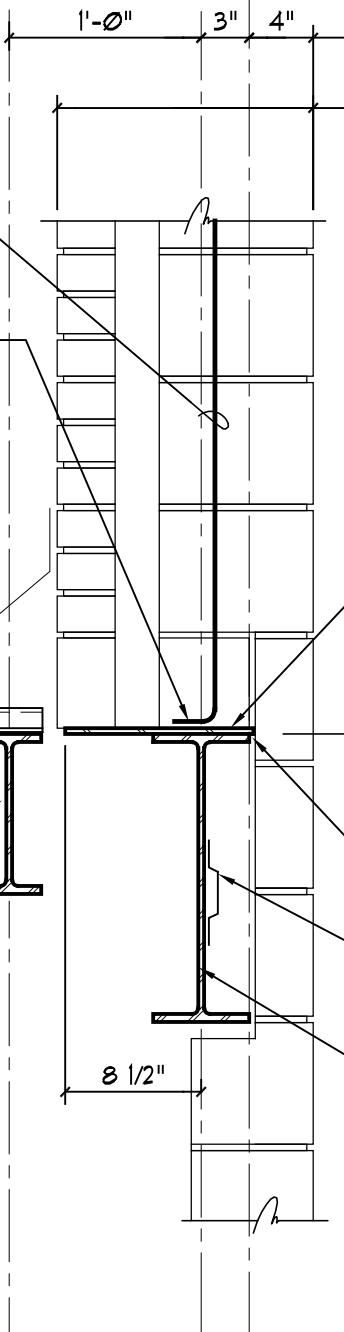
Hebron Elementary School
 Hebron, Connecticut
 Additions and Renovations
 State Project Number : 067-029-EA

SECTION AT MEZZANINE SALB
 SCALE: 1" = 1'-0"
 SHEET REF.: S2.2

HSK-S06
 DATE: 8-12-99



15.9



MASONRY WALL CONSTRUCTION
SEE ARCHITECTS DRAWINGS.

VERTICAL REINFORCING SEE
SCHEDULE FOR DEFORMED
BARS IN MASONRY WALLS.

BEND DISCONTINUOUS BAR 3"
AND WELD TO STEEL BEAM
FLANGE TYPICAL.

ROOFING AND INSULATION
SEE ARCHITECTS DRAWINGS.

GYMNASIUM

3/8" x 12" WIDE CONTINUOUS PLATE
AT EXTERIOR MASONRY VENEER.

TOP OF MEZZANINE SLAB
ELEVATION = + 11'-11 3/8"

1 1/2" STEEL ROOF DECK

W 10 x 12 STEEL BEAM
SEE FRAMING PLAN
SHEET S2.1

3/16" 2" - 12" EACH SIDE

#9 WIRE TIE SHOP WELDED TO
BEAM FLANGE @ 16" o.c.

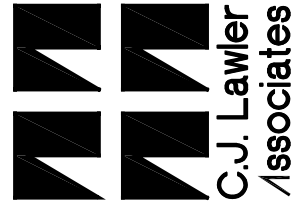
8 1/2"

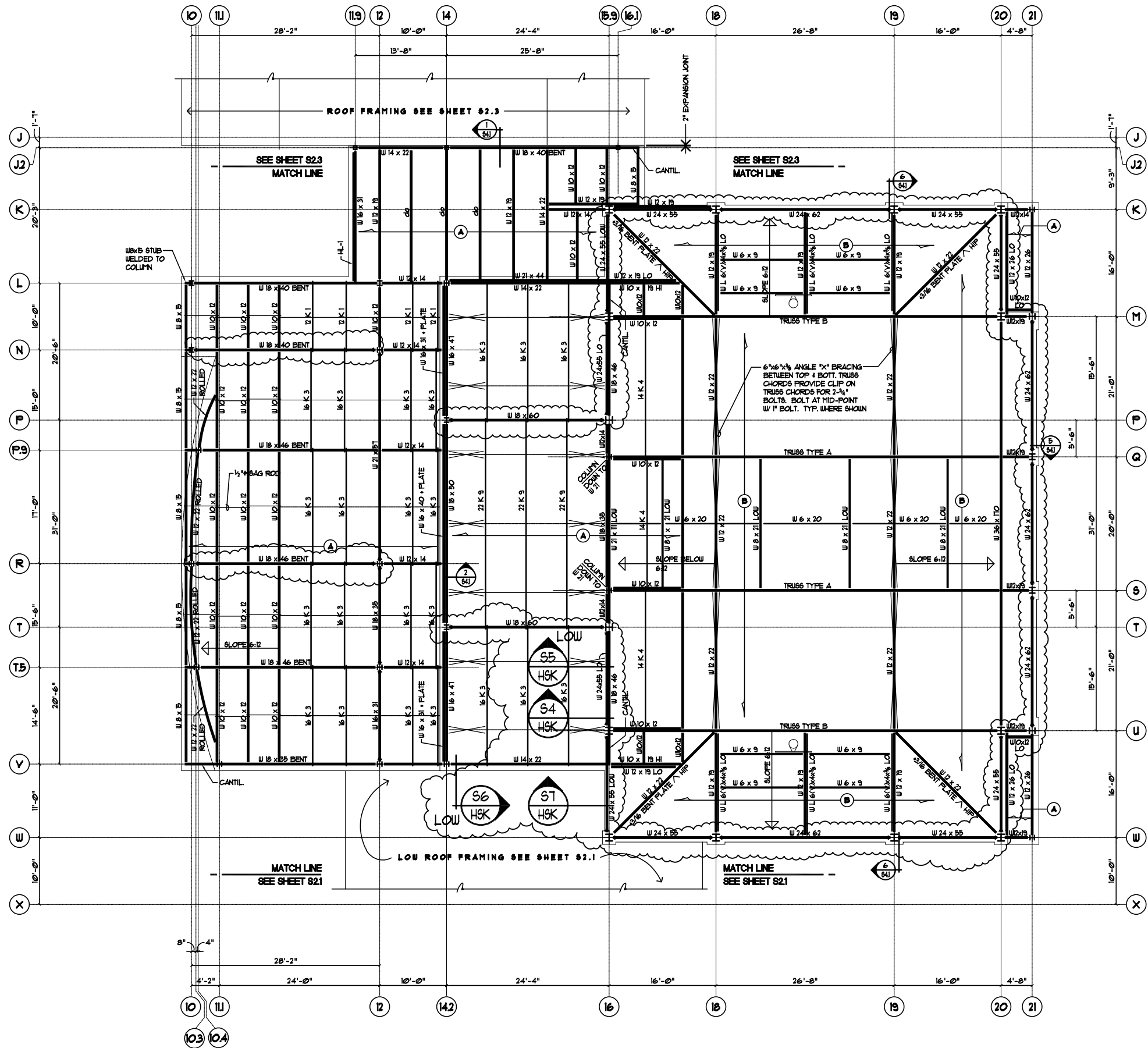
W 18 x 35 STEEL BEAM SEE
MEZZANINE FRAMING PLAN SHEET S2.2

Hebron Elementary School
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SECTION AT COLUMN LINE 15.9
LOW ROOF COLUMN LINE V - W
SCALE: 1" = 1'-0"
SHEET REF.: S2.2

HSK-S07
DATE: 8-12-99





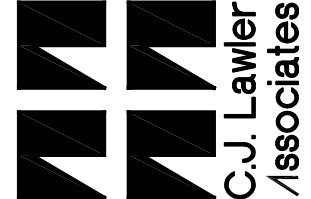
ROOF FRAMING PLAN - AREA "B"
 1/8" = 1'-0"

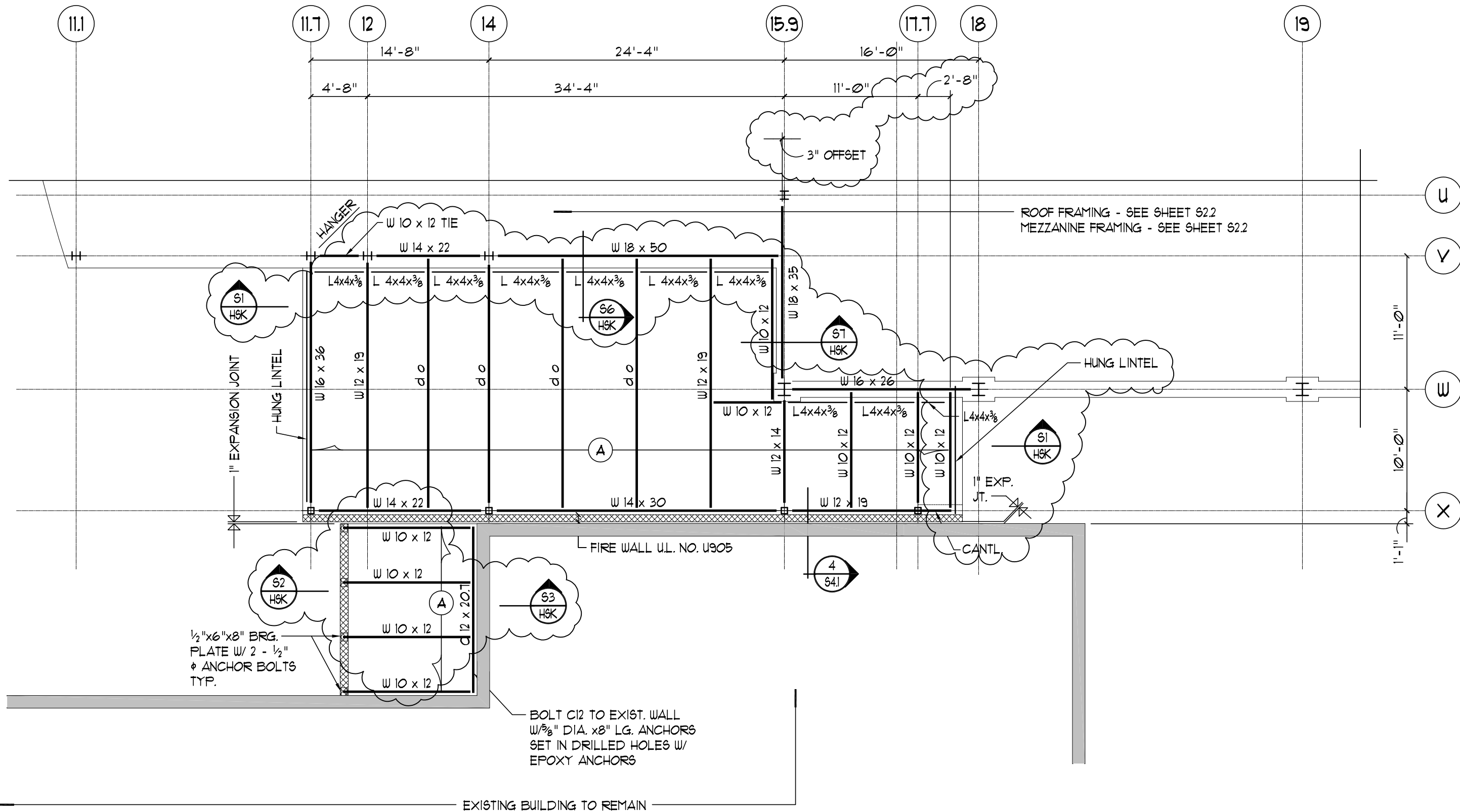


Hebron Elementary School
 Hebron, Connecticut
 Additions and Renovations
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**MOMENT CONNECTIONS
 KEY PLAN AREA "B"**
 SCALE: N.T.S.

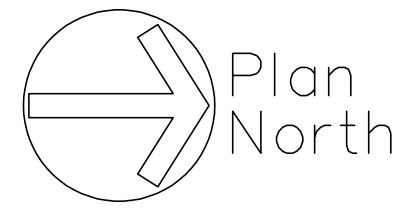
HSK-S08
 DATE: 8-12-99





ROOF FRAMING PLAN - AREA "A"

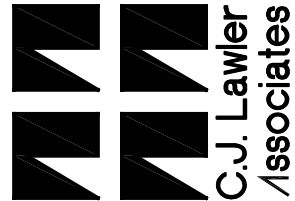
1/8" = 1'-0"
 TOP OF STEEL ELEVATION = + 11'-11 3/8"

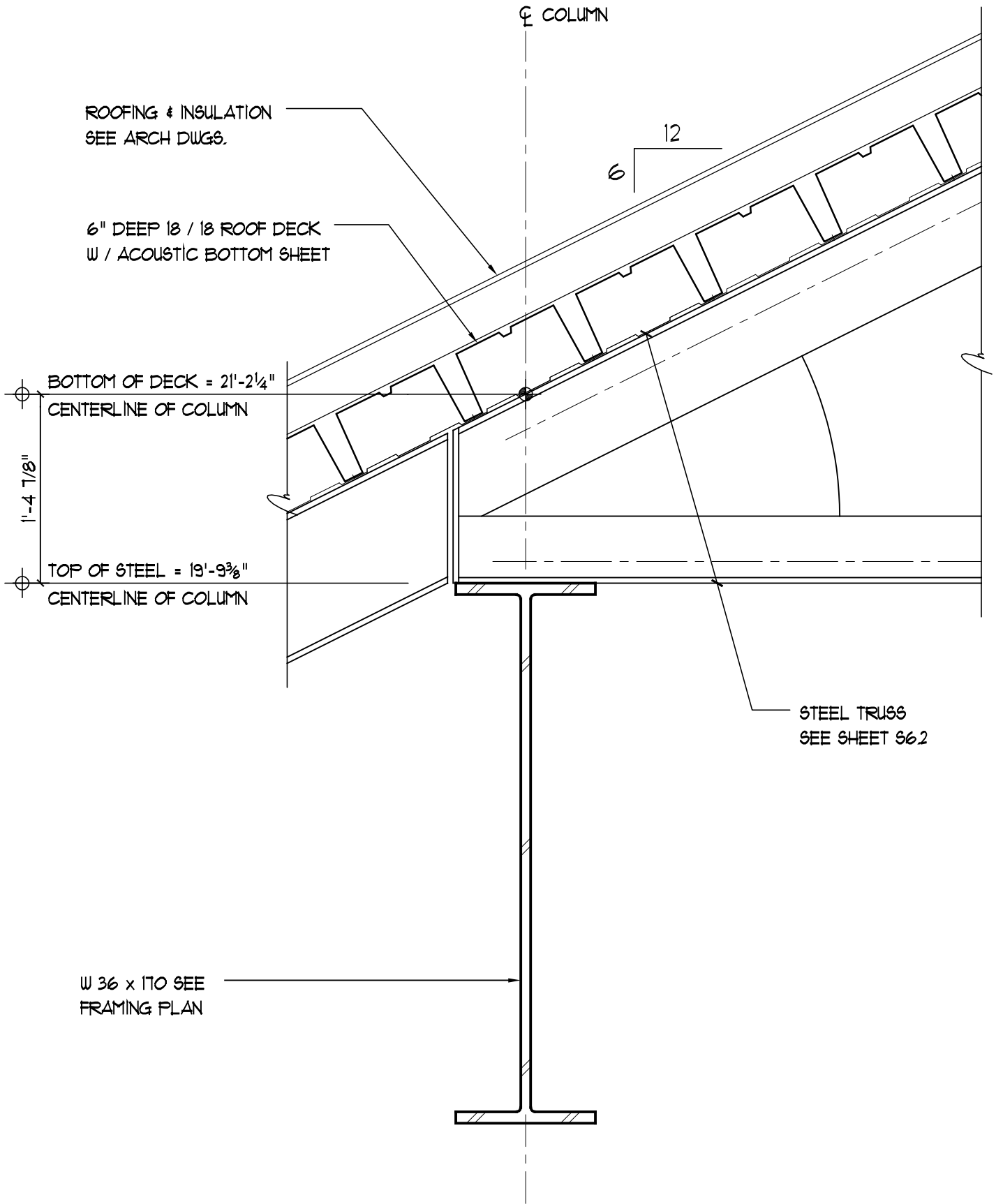


Hebron Elementary School
 Hebron, Connecticut
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ROOF FRAMING PLAN AREA "A"
 REVISION TOP STEEL
 SCALE: N.T.S.

HSK-S09
 DATE: 8-12-99





Hebron Elementary School
Hebron, Connecticut

Additions and Renovations
State Project Number : 067-029-EA

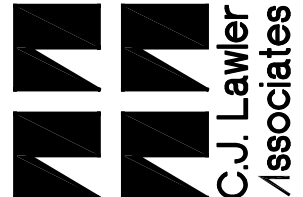
WORK POINT BOTTOM OF
DECK GYMNASIUM ROOF

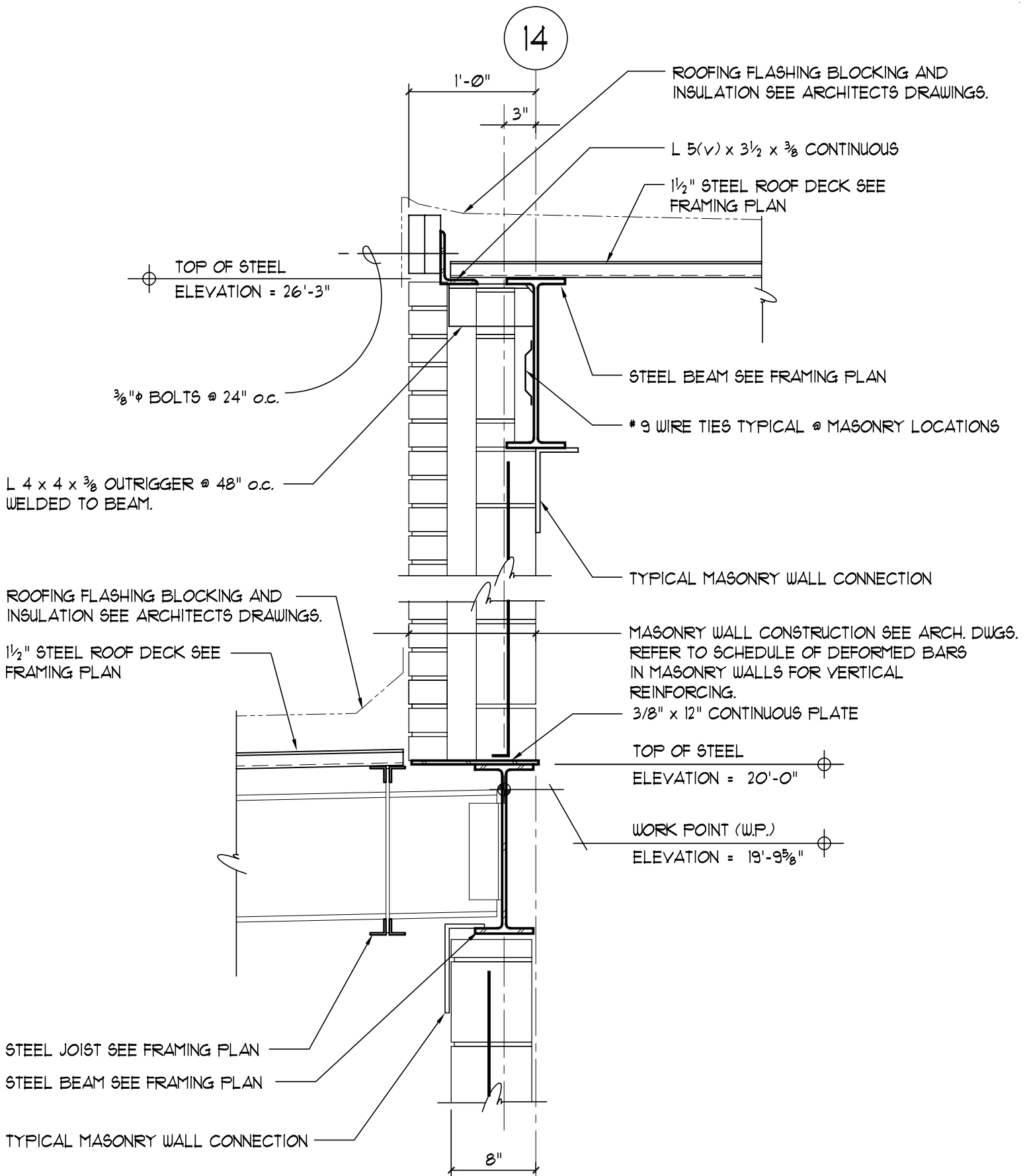
SCALE: 1" = 1'-0"

SHEET REF. : S2.1

HSK-S10

DATE: 8-26-99





Hebron Elementary School
Hebron, Connecticut

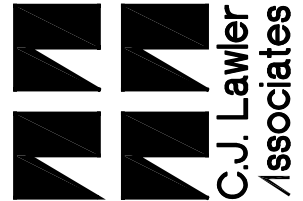
Additions and Renovations
 State Project Number : 067-029-EA

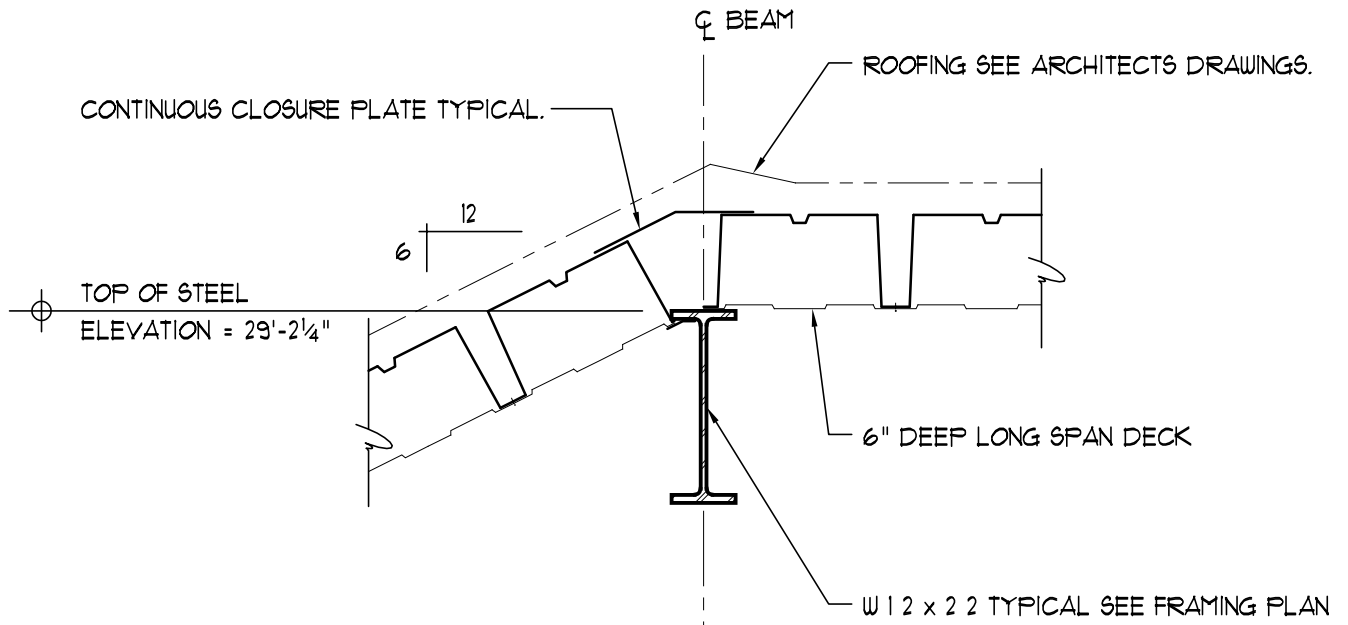
SECTION COLUMN LINE 14
REVISED SECTION 2/S4.1

SCALE: 1" = 1'-0" SHEET REF.: S2.1

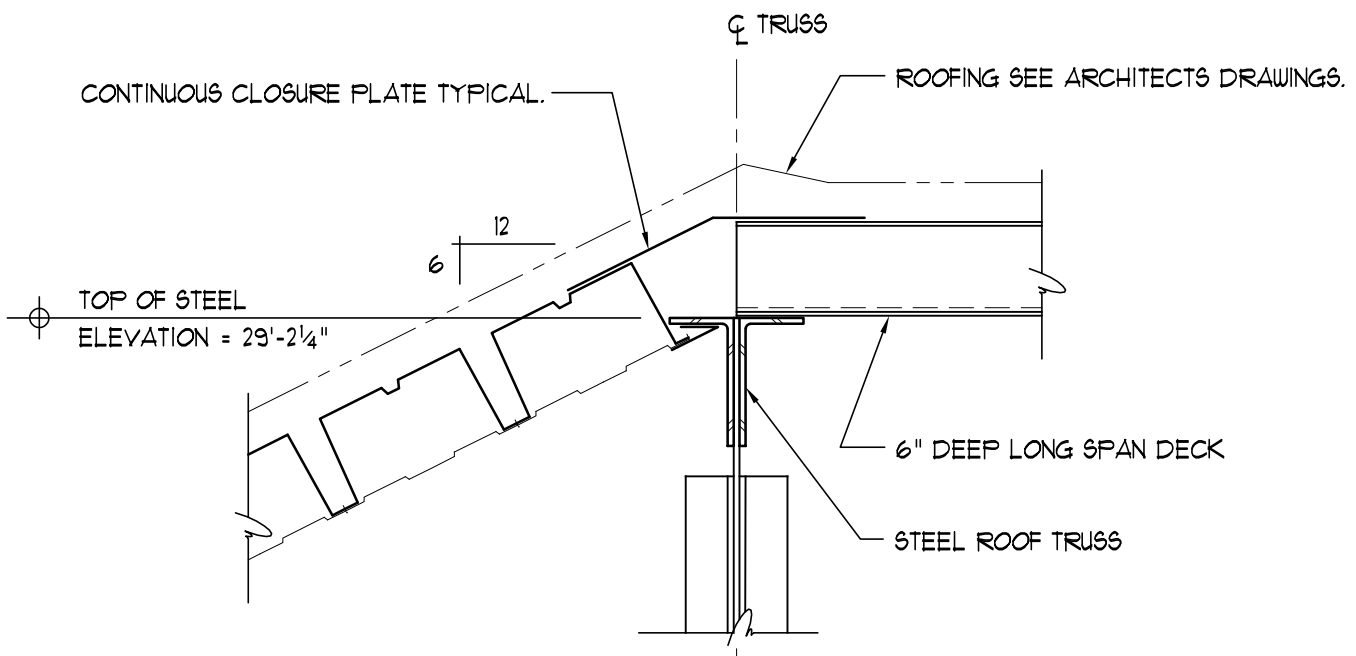
HSK-S11

DATE: 8-26-99





SECTION COLUMN LINE 18 AND 19

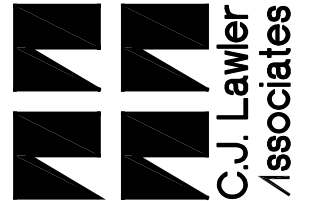


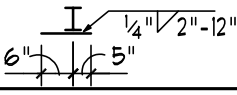
SECTION COLUMN LINE M AND U

Hebron Elementary School
 Hebron, Connecticut
 Additions and Renovations
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SECTIONS AT PERIMETER OF
 GYMNASIUM HIGH ROOF
 SCALE: 1" = 1'-0"
 SHEET REF.: S2.1

HSK-S12
 DATE: 8-26-99



L O O S E L I N T E L S C H E D U L E	
MASONRY OPENING	SIZE
T Y P I C A L	
UP TO 3'-4"	ONE ANGLE - 4" VERT. x 3½" HORZ. x ¼" FOR EACH 4" OF MASONRY THICKNESS
3'-4" TO 6'-0"	ONE ANGLE - 5" VERT. x 3½" HORZ. x 5/16" FOR EACH 4" OF MASONRY THICKNESS
6'-0" TO 8'-0"	ONE ANGLE - 6" VERT. x 3½" HORZ. x ¾" FOR EACH 4" OF MASONRY THICKNESS
8'-0" TO 12'-0"	W 8 x 18 + ¾" PLATE x 11" WIDE 
6" M A S O N R Y P A R T I T I O N S	
UP TO 3'-4"	WT 4 x 9
3'-4" TO 6'-0"	WT 4 x 10.5
6'-0" TO 8'-0"	WT 7 x 13
ALL OTHER LINTELS	SEE STRUCTURAL DRAWINGS
<p>ALL LINTELS TO BEAR 8" EACH END UNLESS OTHERWISE NOTED ON THE DRAWINGS</p> <p>EXTEND ALL HUNG LINTEL ENDS 4" MINIMUM INTO MASONRY EACH END.</p> <p>BOLT VERTICAL ADJACENT ANGLE LEGS WITH ½"ϕ BOLTS @ 24" O.C.</p> <p>ALL EXTERIOR LOOSE LINTELS TO BE HOT DIPPED GALVANIZED.</p> <p>GROUT SOLID MASONRY CELLS ONE COURSE EACH SIDE OF WT WEB AT 6" MASONRY PARTITIONS.</p>	

Hebron Elementary School
 Hebron, Connecticut

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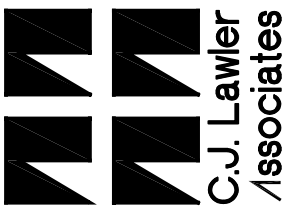
LOOSE LINTEL SCHEDULE

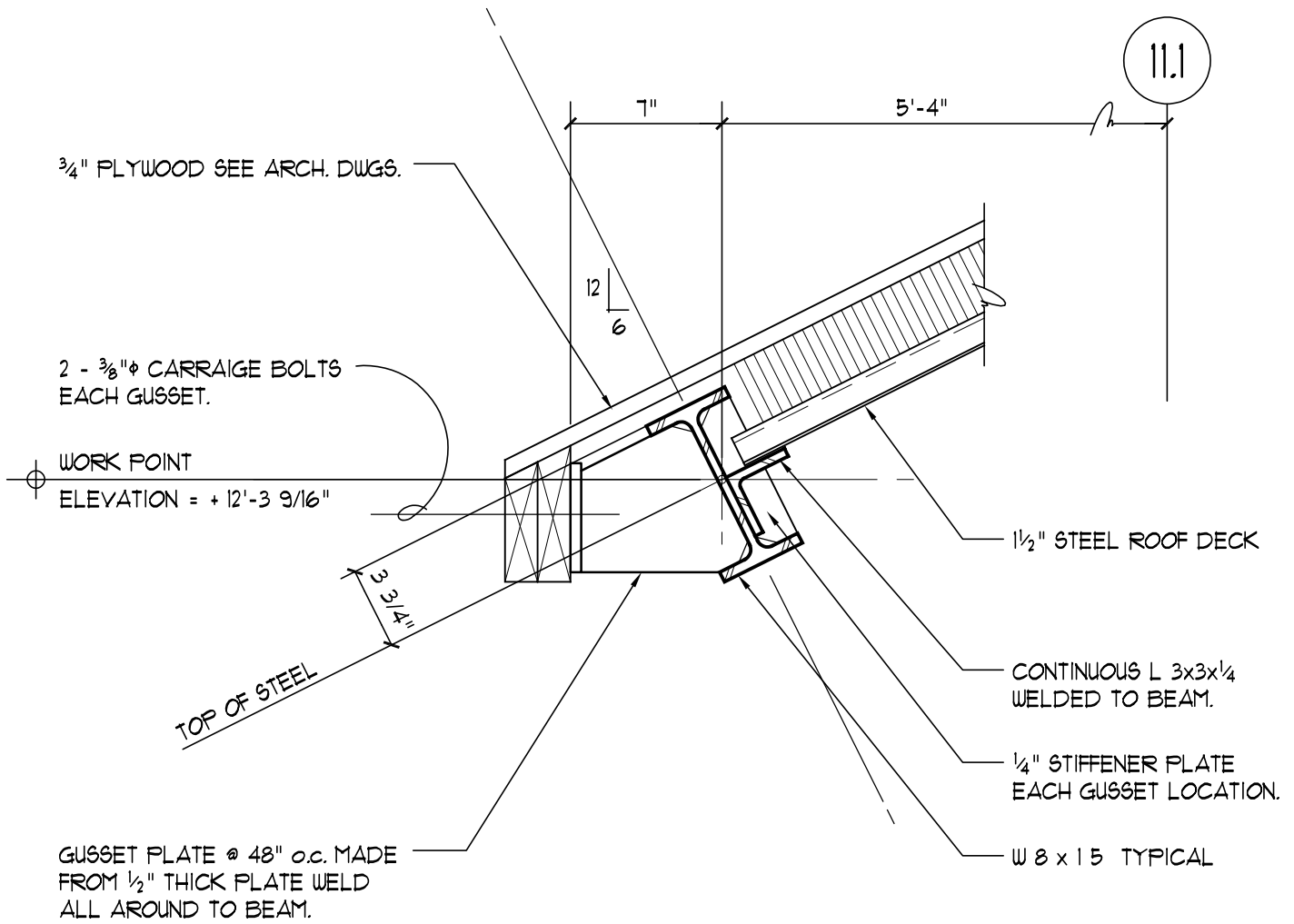
SCALE: N.T.S.

SHEET REF. : S2.1

HSK-S13

DATE: 8-26-99





Hebron Elementary School
Hebron, Connecticut

Additions and Renovations
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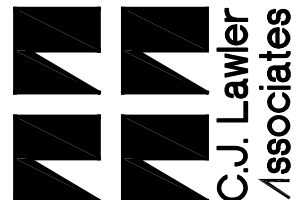
WORK POINT LOW EAVE
AREA "B"

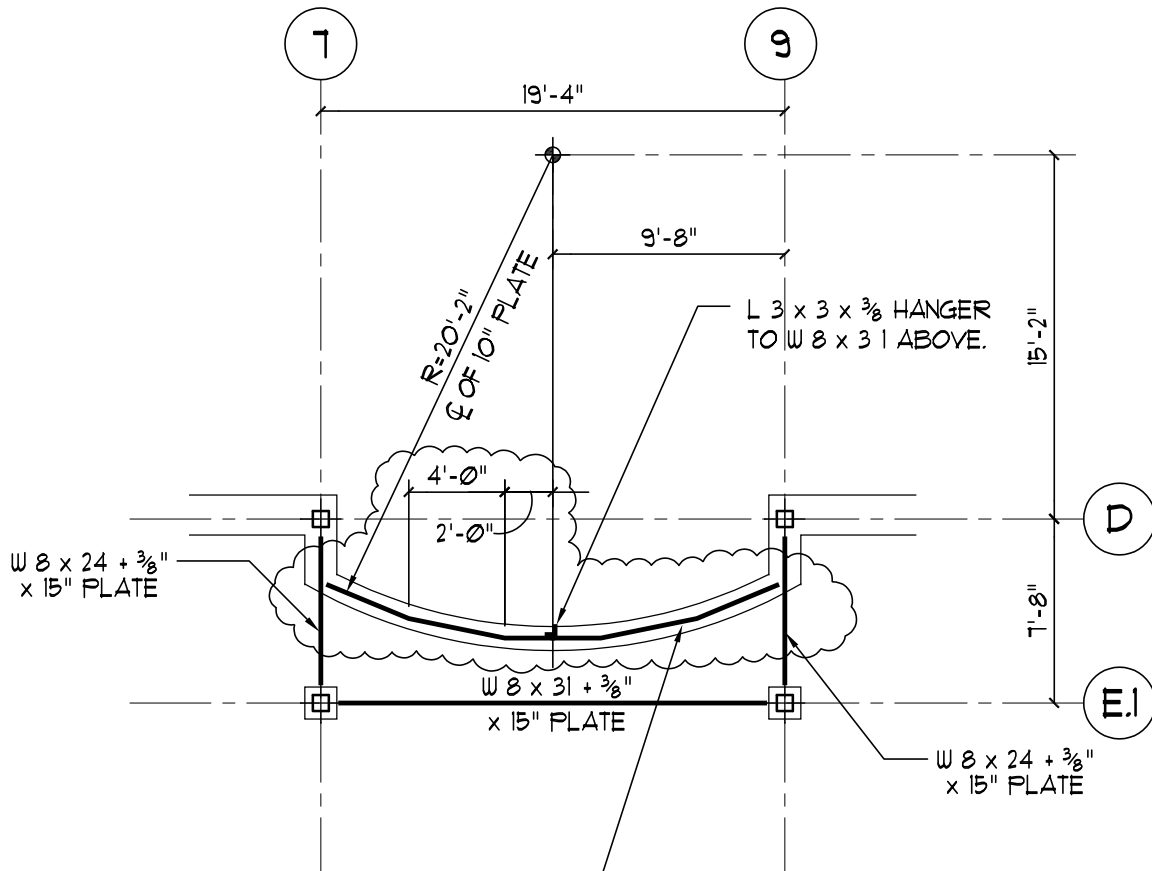
SCALE : 1 1/2" = 1'-0"

SHEET REF. : S2.1

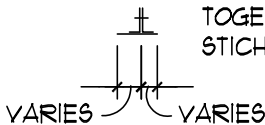
HSK-S14

DATE: 8-26-99





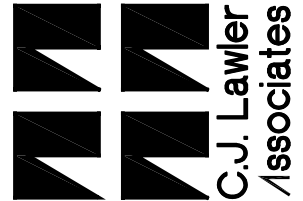
2 - L 6 x 3 1/2 x 5/16 KINKED TO FIT
 3/8"x10" WIDE CURVED PLATE
 BOLT VERTICAL LEGS OF ANGLE
 TOGETHER WITH 1/2" φ BOLTS @ 24" o.c.
 STICH WELD HORIZ. LEG TO PLATE.

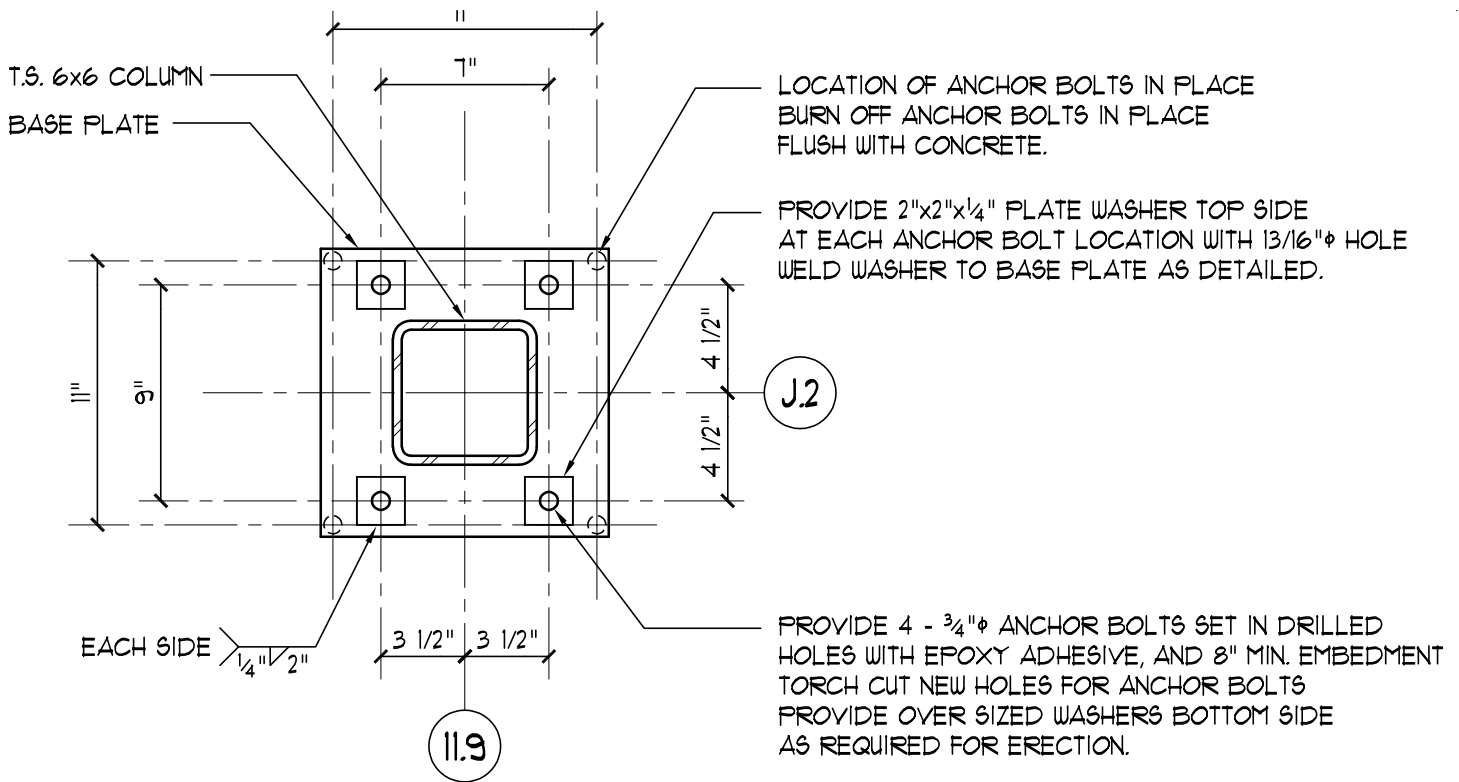


Hebron Elementary School
 Hebron, Connecticut
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CORRIDOR 88 ENTRY
 CLARIFICATION CURVED LINTEL
 SCALE : 1/8" = 1'-0"
 SHEET REF. : S2.3

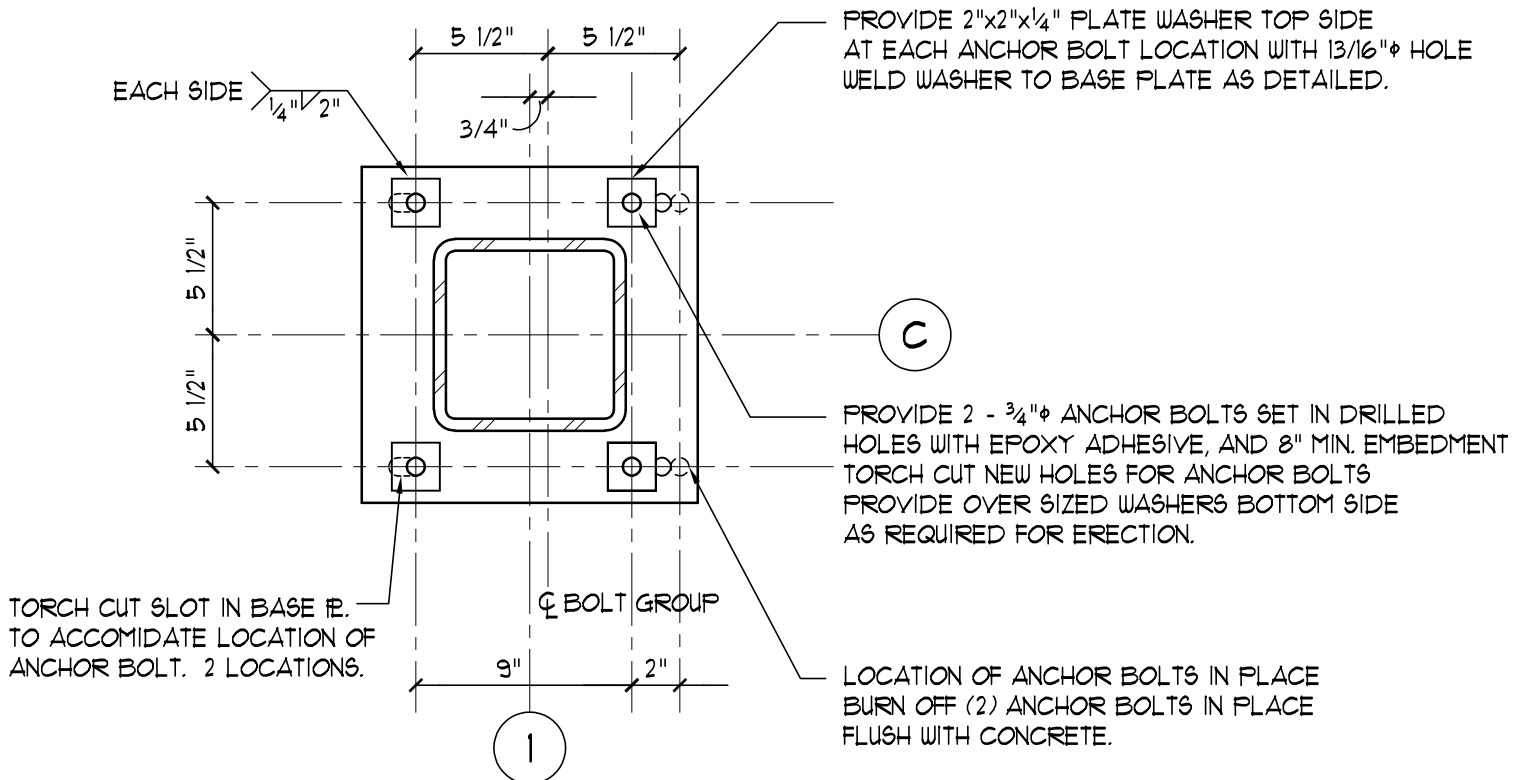
HSK-S15
 DATE: 9-21-99





ANCHOR BOLT LAYOUT COLUMN J.2-11.9

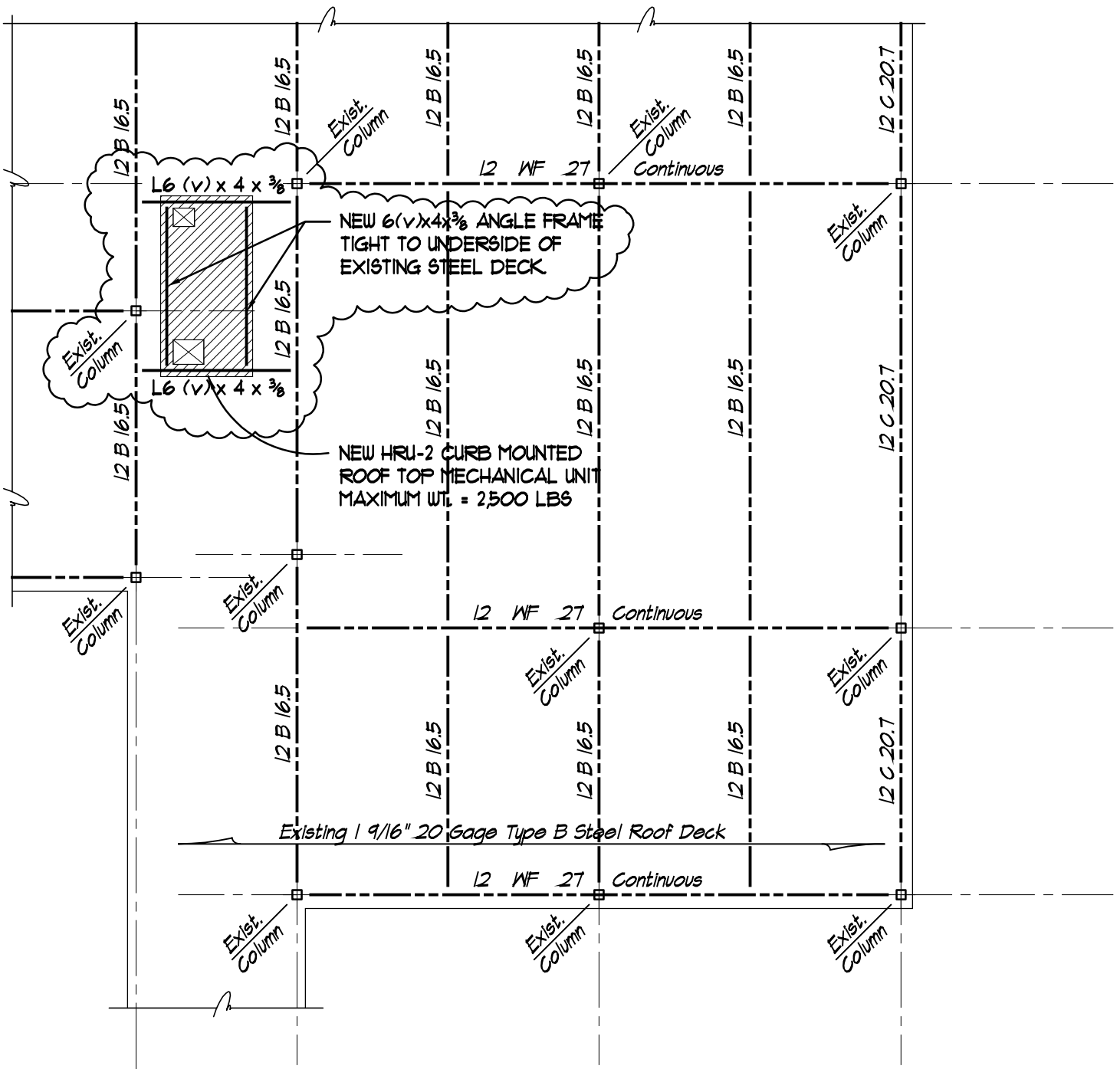
1 1/2" = 1'-0"



ANCHOR BOLT LAYOUT COLUMN C-1

1 1/2" = 1'-0"

<p>Hebron Elementary School Hebron, Connecticut</p> <p>Additions and Renovations State Project Number : 067-029-EA</p>	<p>CORRECTIVE WORK FOR ANCHOR BOLT LAYOUT</p> <p>SCALE : 1 1/2" = 1'-0" SHEET REF. : S13</p>	<p>HSK-S16</p> <p>DATE: 11-4-99</p>	<p>C.J. Lawler Associates</p>
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PARTIAL EXISTING ROOF FRAMING PLAN - AREA B

1/8" = 1'-0"

REVISED 4-10-00

Hebron Elementary School
Hebron, Connecticut

Additions and Renovations
State Project Number : 067-029-EA

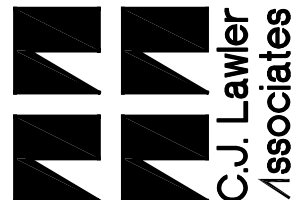
STEEL FRAME FOR HRU-2

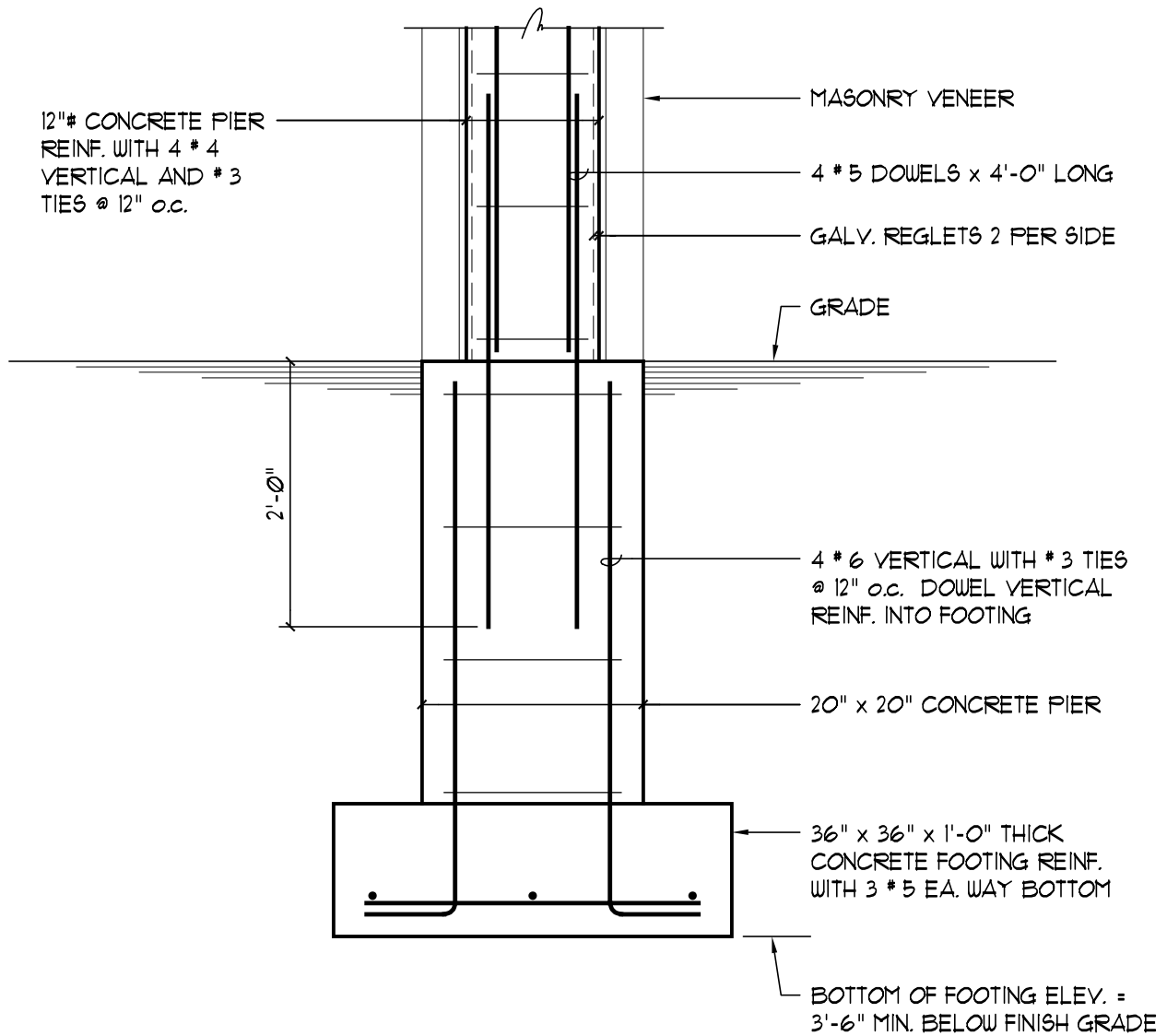
SCALE : 1/8" = 1'-0"

SHEET REF. : M1.2

HSK-S17

DATE: 11-5-99





BRICK PIER FOUNDATION SECTION

N.T.S.

Hebron Elementary School
Hebron, Connecticut

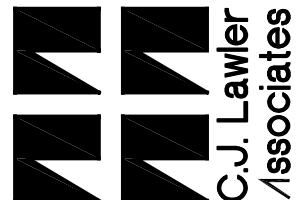
Additions and Renovations
State Project Number : 067-029-EA

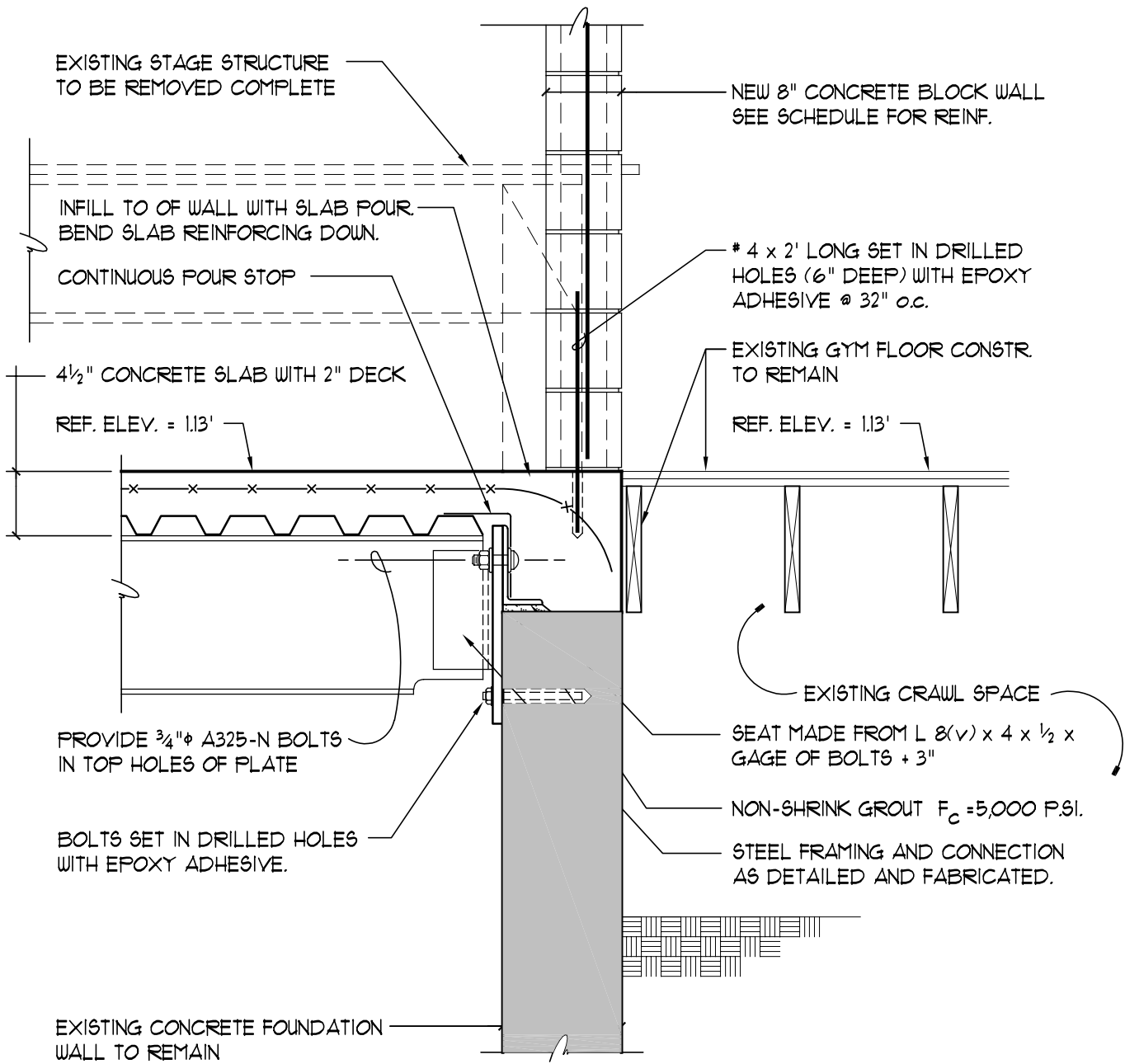
BRICK PIER FOUNDATION
SECTION

SCALE : NOT TO SCALE SHEET REF. :

HSK-S18

DATE: 11-29-99





SECTION

10
S3.1

3/4" = 1'-0"

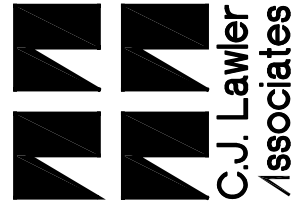
Hebron Elementary School
Hebron, Connecticut
Additions and Renovations
State Project Number : 067-029-EA

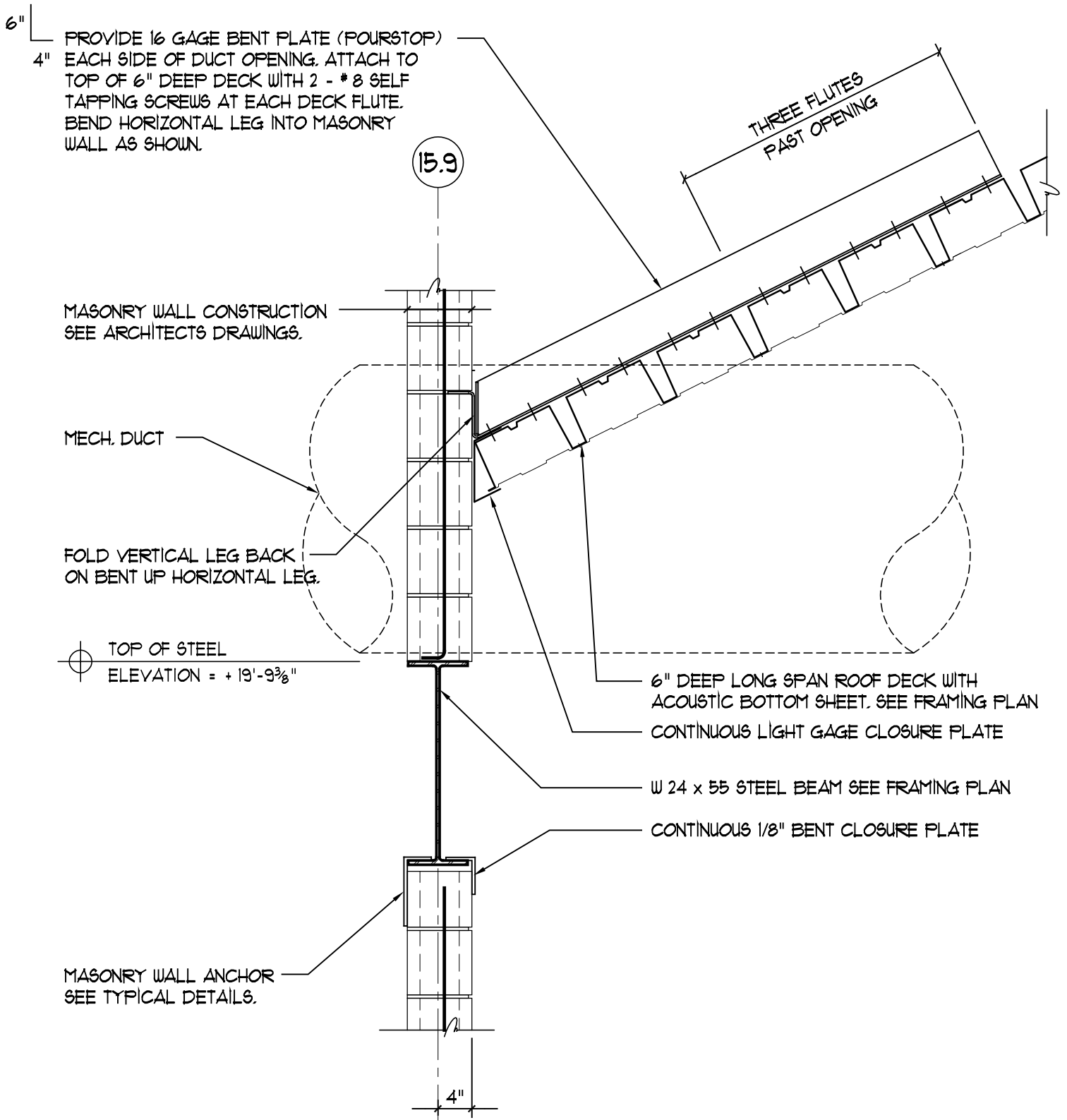
FIELD REVISION TO
SECTION 10/S3.1

SCALE : NOT TO SCALE SHEET REF. : S3.1

HSK-S19

DATE: 12-28-99





Hebron Elementary School
Hebron, Connecticut

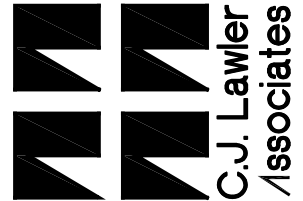
Additions and Renovations
State Project Number : 067-029-EA

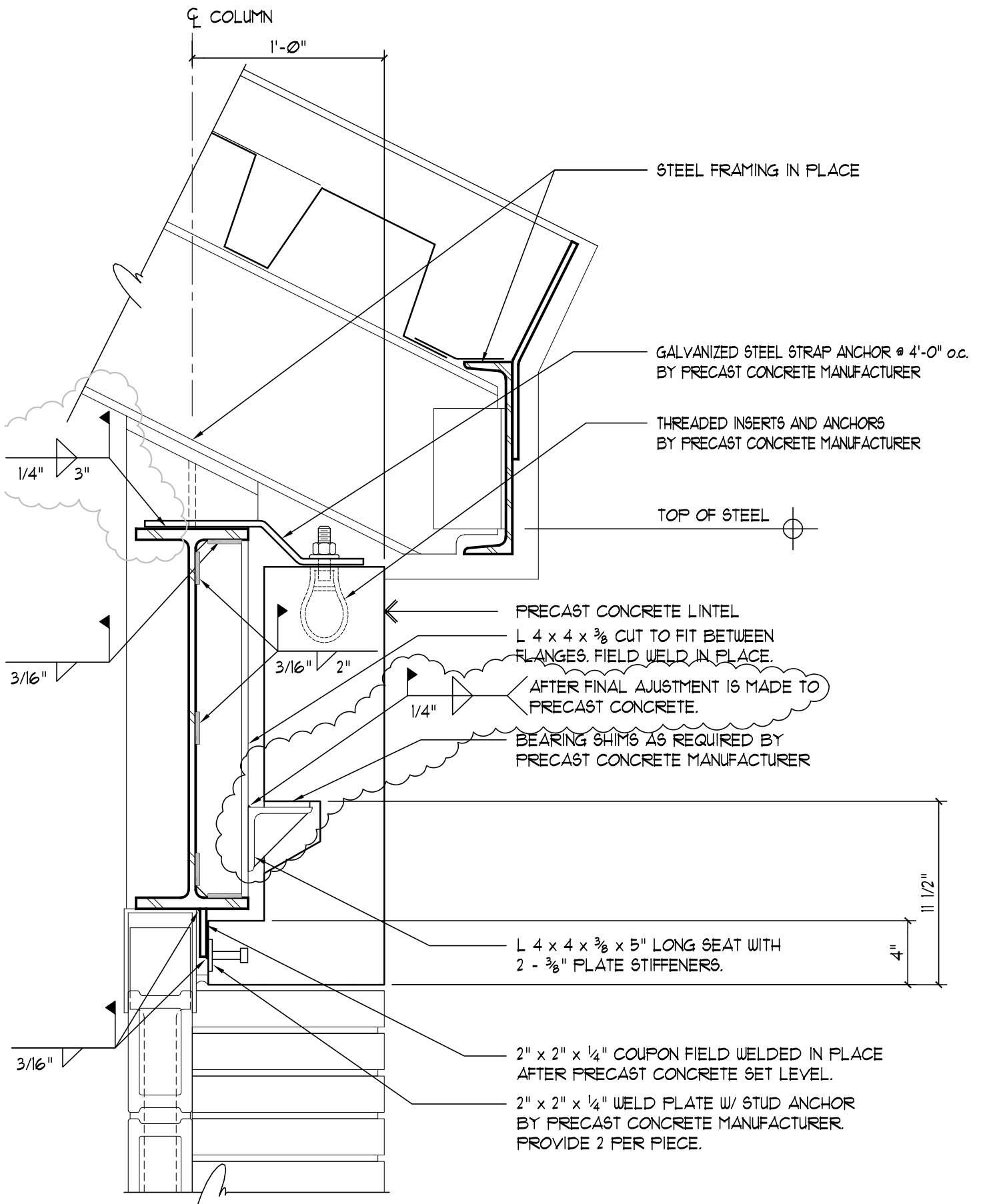
DECK REINFORCEMENT AT
DUCT PENETRATIONS IN GYM

SCALE: 3/4" = 1'-0" SHEET REF.: S2.2

HSK-S20

DATE: 1-6-00

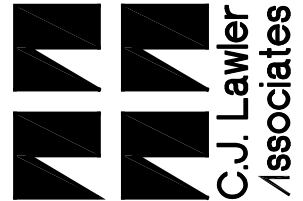


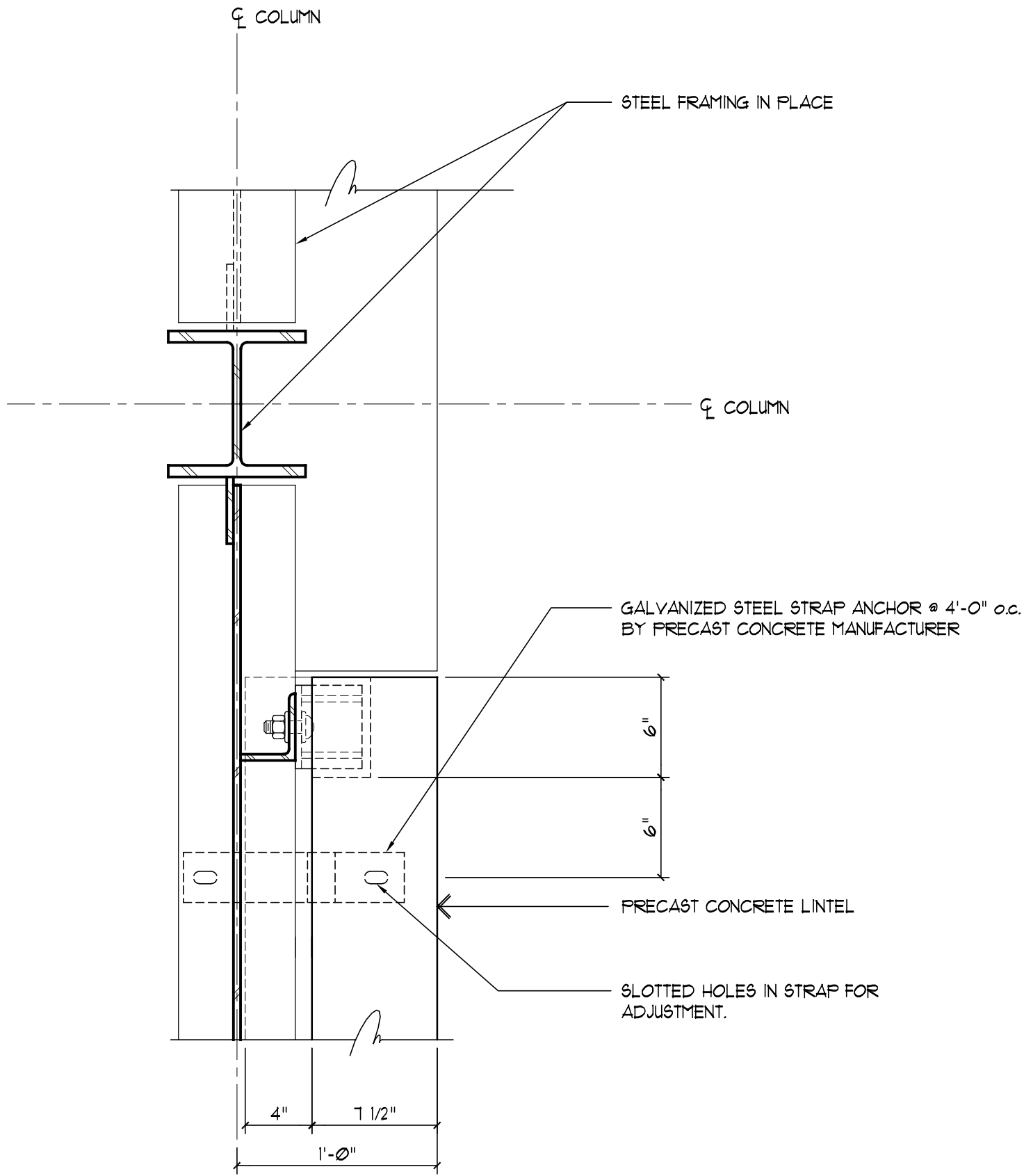


Hebron Elementary School
 Hebron, Connecticut
 Additions and Renovations
 State Project Number : 067-029-EA

PRECAST CONCRETE LINTEL
TYPICAL SECTION GYMNASIUM
 SCALE: 1 1/2" = 1'-0" SHEET REF. : S2.2

HSK-S21
 DATE: 1-14-00

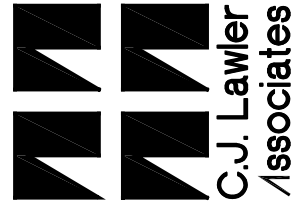


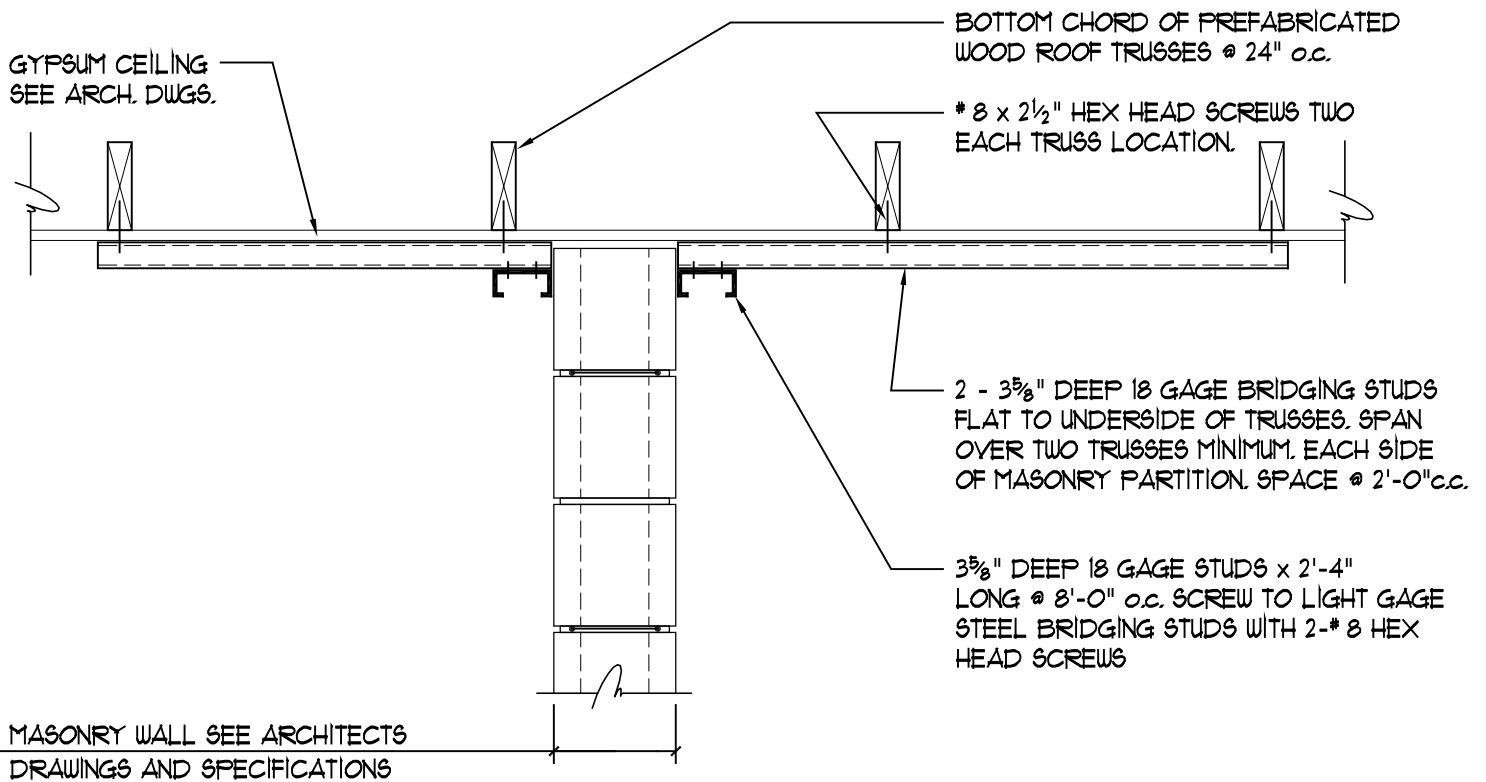


Hebron Elementary School
 Hebron, Connecticut
 Additions and Renovations
 State Project Number : 067-029-EA

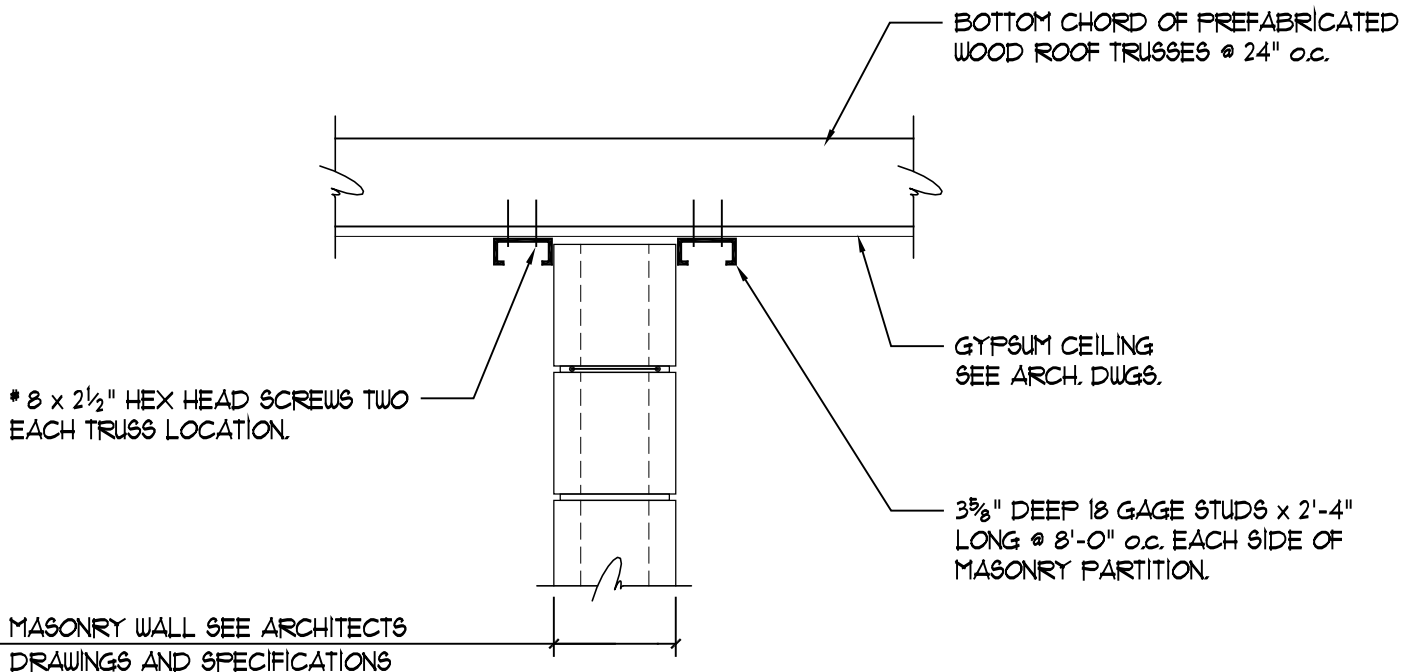
PRECAST CONCRETE LINTEL
TYPICAL PLAN AT COLUMN
 SCALE: 1 1/2" = 1'-0" SHEET REF.: S2.2

HSK-S22
 DATE: 1-14-00





INTERIOR MASONRY WALL PARALLEL TO WOOD TRUSSES



INTERIOR MASONRY WALL PERPENDICULAR TO WOOD TRUSSES

Hebron Elementary School
Hebron, Connecticut

Additions and Renovations
State Project Number : 067-029-EA

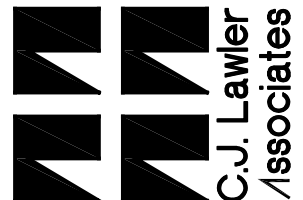
TOP OF INTERIOR MASONRY WALL
CONNECTION AT WOOD TRUSSES

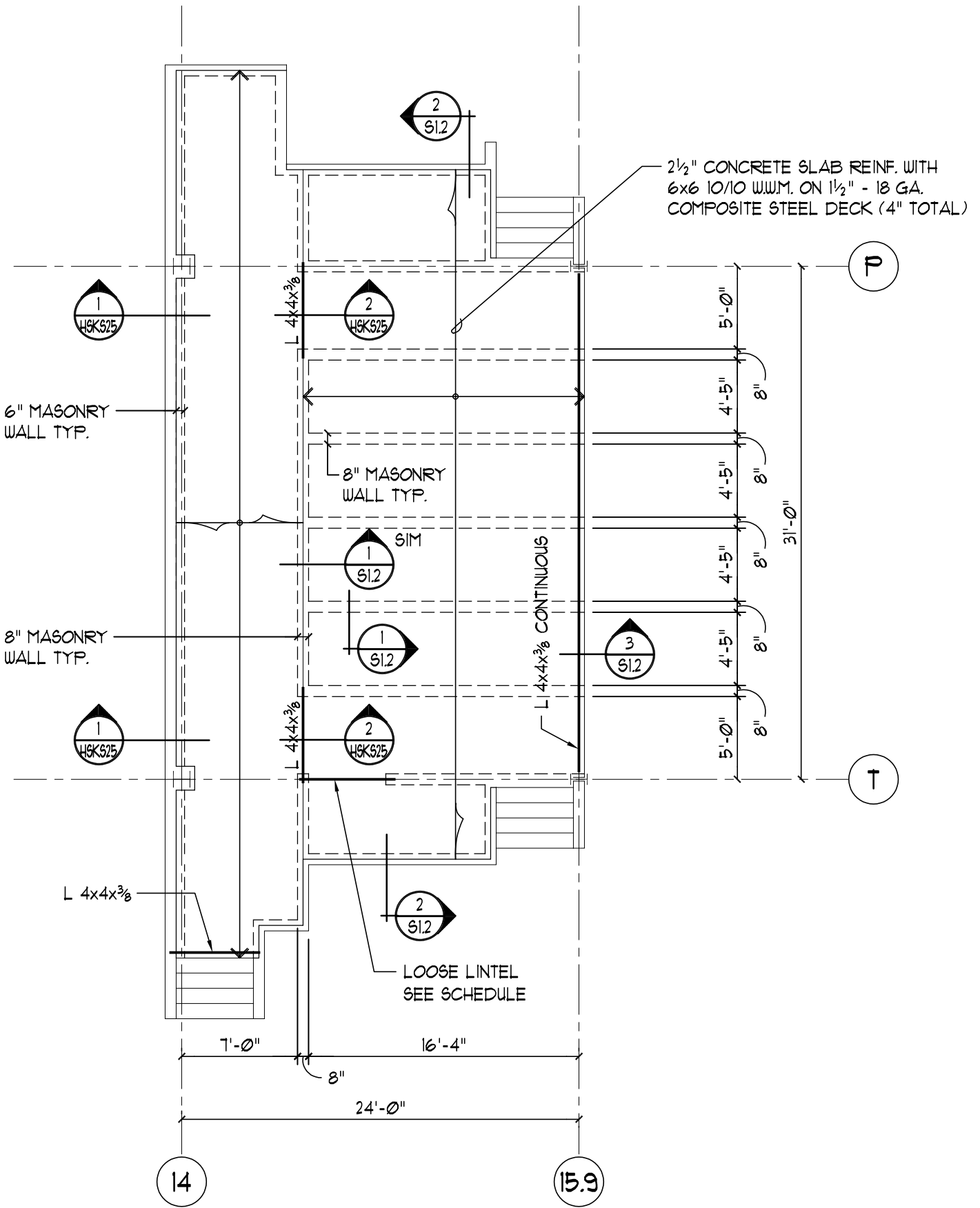
SCALE: 1" = 1'-0"

SHEET REF.: S6.2

HSK-S23

DATE: 1-27-00





Hebron Elementary School
 Hebron, Connecticut

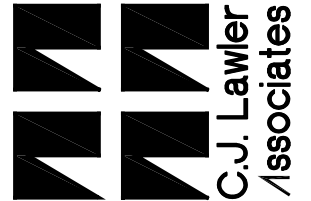
Additions and Renovations
 State Project Number : 067-029-EA

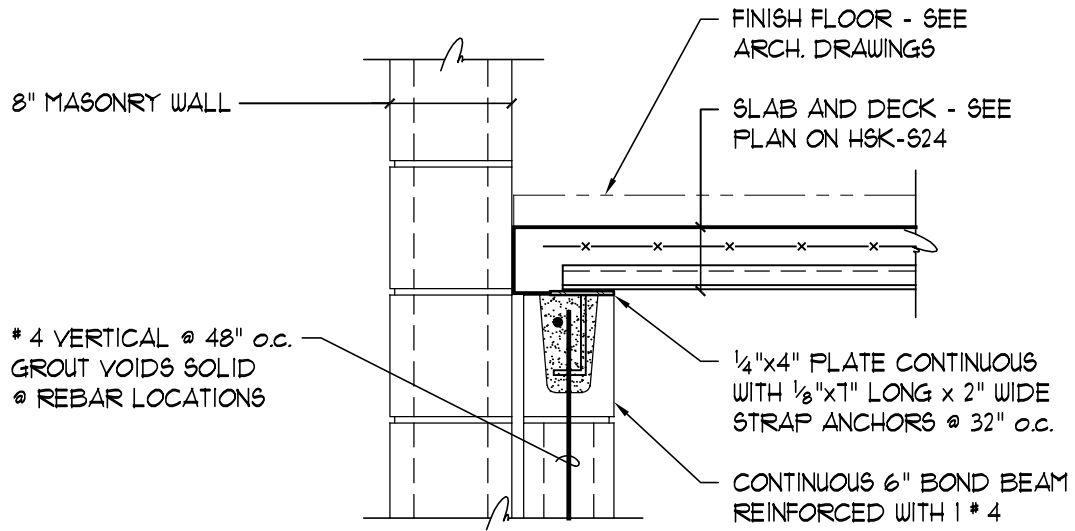
**REVISED GYMNASIUM STAGE
 FRAMING PLAN**

SCALE: 1/8" = 1'-0" SHEET REF.: S12

HSK-S24

DATE: 2-16-00

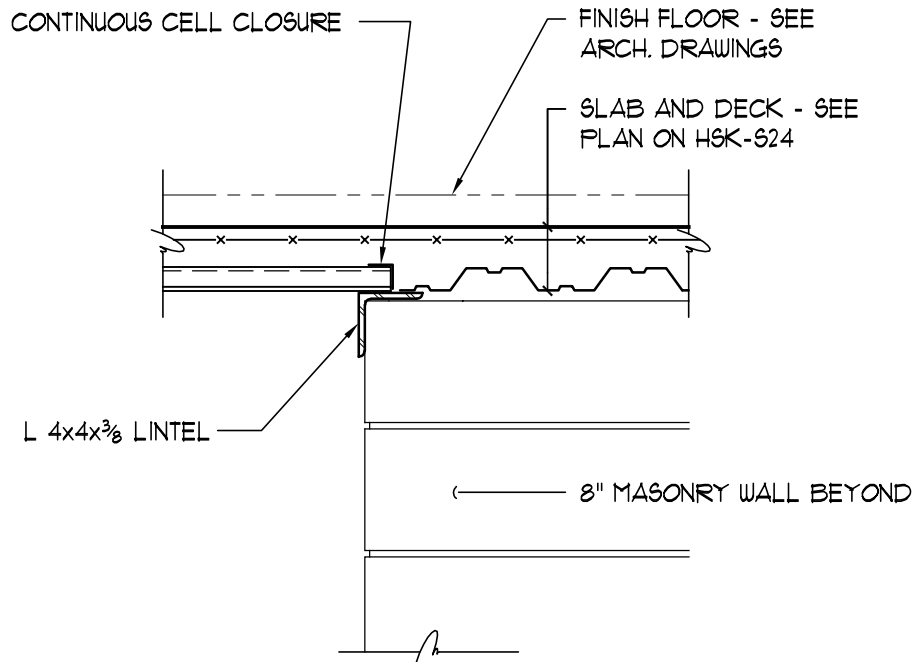




SECTION 1

1" = 1'-0"

HSK-S25



SECTION 2

1" = 1'-0"

HSK-S25

Hebron Elementary School
Hebron, Connecticut

Additions and Renovations
State Project Number : 067-029-EA

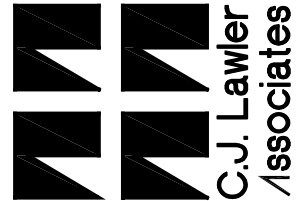
SECTIONS THRU STAGE FRAMING

SCALE: 1" = 1'-0"

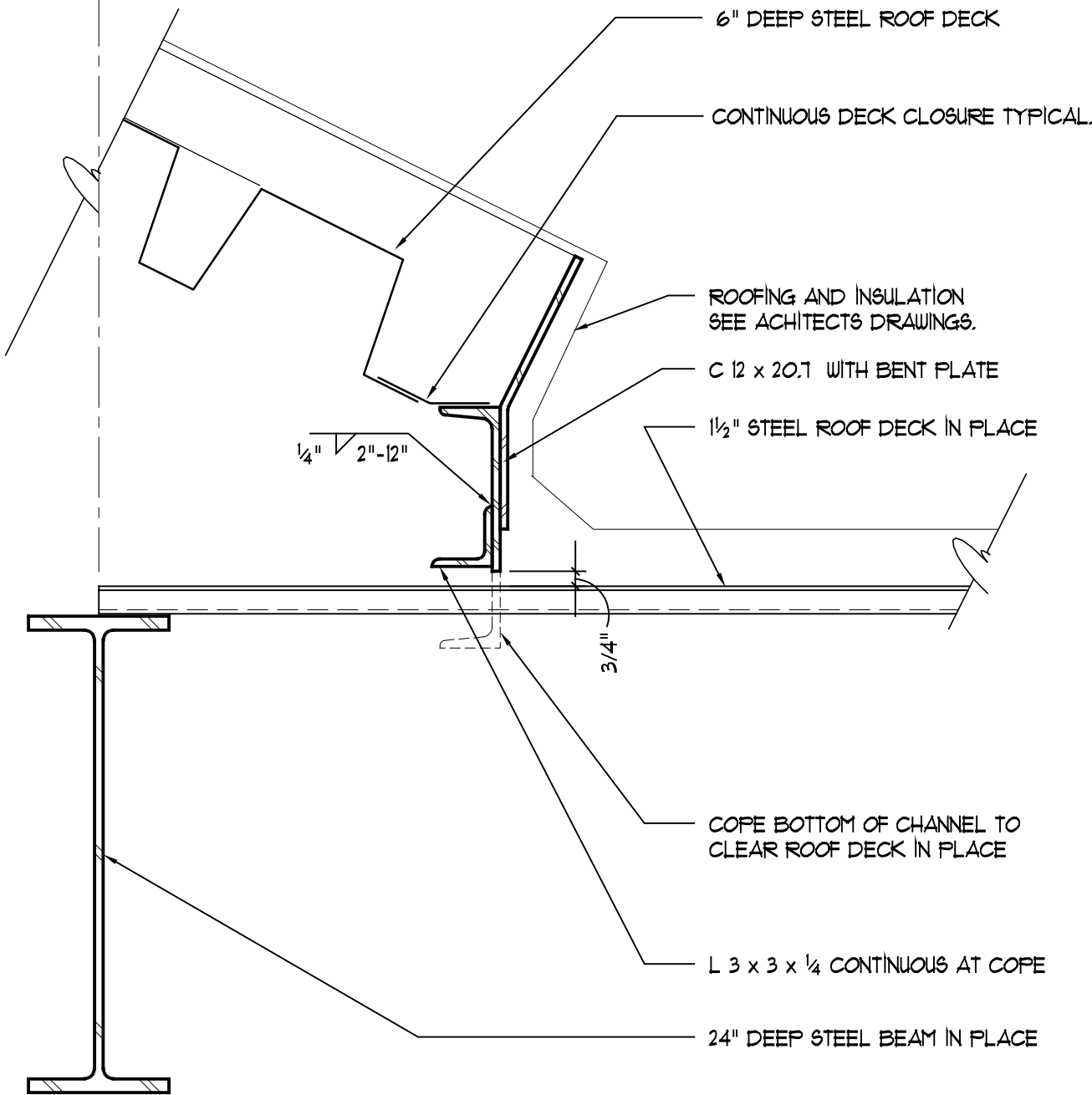
SHEET REF. : HSK-S24

HSK-S25

DATE: 2-16-00



15.9



6" DEEP STEEL ROOF DECK

CONTINUOUS DECK CLOSURE TYPICAL.

ROOFING AND INSULATION
SEE ARCHITECTS DRAWINGS.

C 12 x 20.1 WITH BENT PLATE

1 1/2" STEEL ROOF DECK IN PLACE

1/4" 2"-12"

3/4"

COPE BOTTOM OF CHANNEL TO
CLEAR ROOF DECK IN PLACE

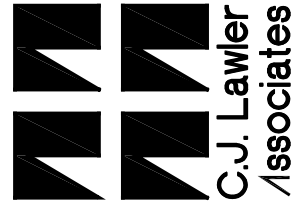
L 3 x 3 x 1/4 CONTINUOUS AT COPE

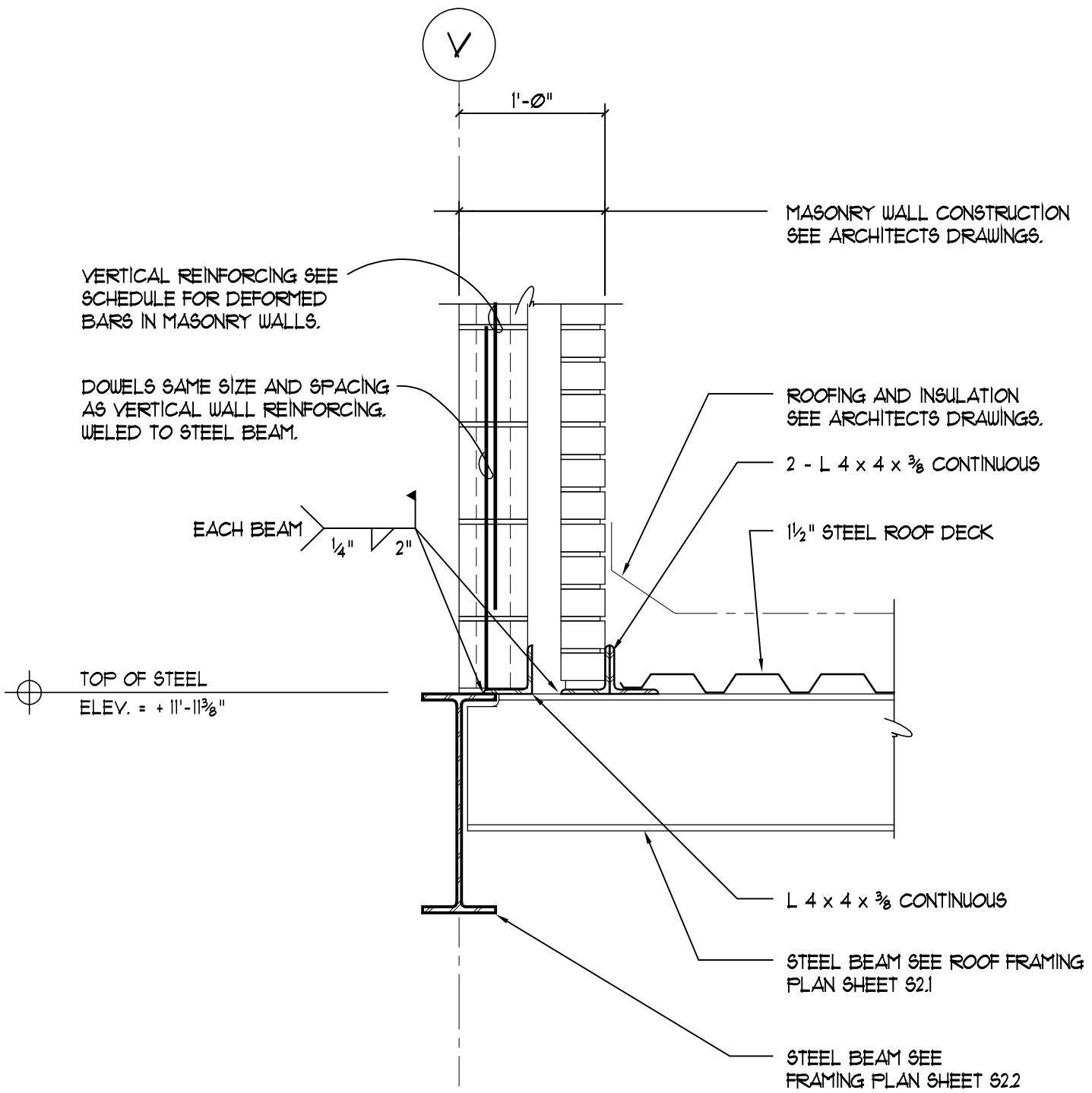
24" DEEP STEEL BEAM IN PLACE

Hebron Elementary School
Hebron, Connecticut
Additions and Renovations
State Project Number : 067-029-EA

EAVE CHANNEL BETWEEN
COLUMN LINE "K" AND "L"
SCALE: 1 1/2" = 1'-0" SHEET REF. : S2.2

HSK-S26
DATE: 2-17-00





Hebron Elementary School
Hebron, Connecticut

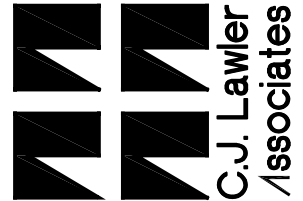
Additions and Renovations
State Project Number : 067-029-EA

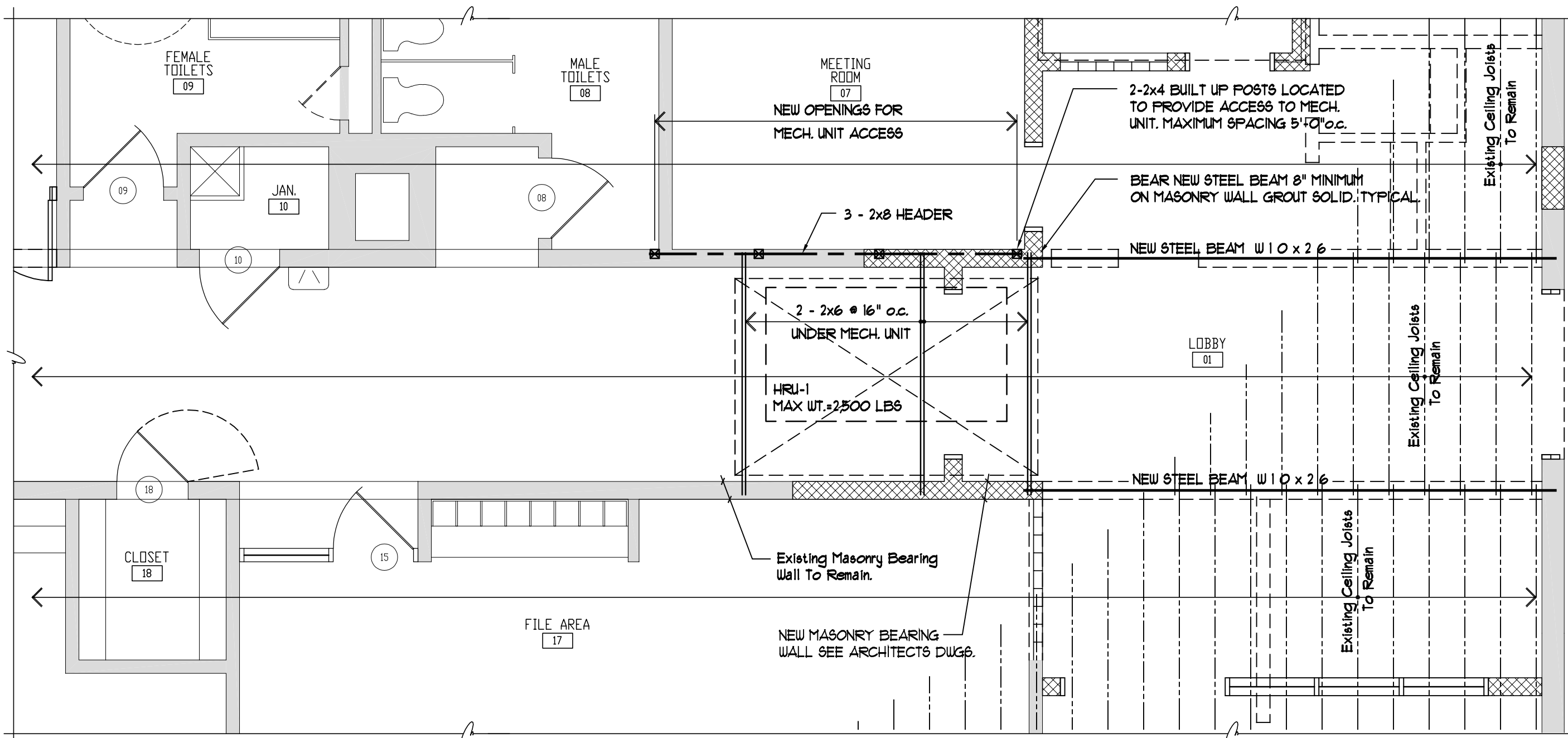
MASONRY SUPPORT BETWEEN
COLUMN V-12 AND V-14

SCALE: 1" = 1'-0" SHEET REF.: S2.2

HSK-S32

DATE: 4-10-00



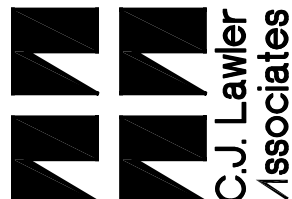


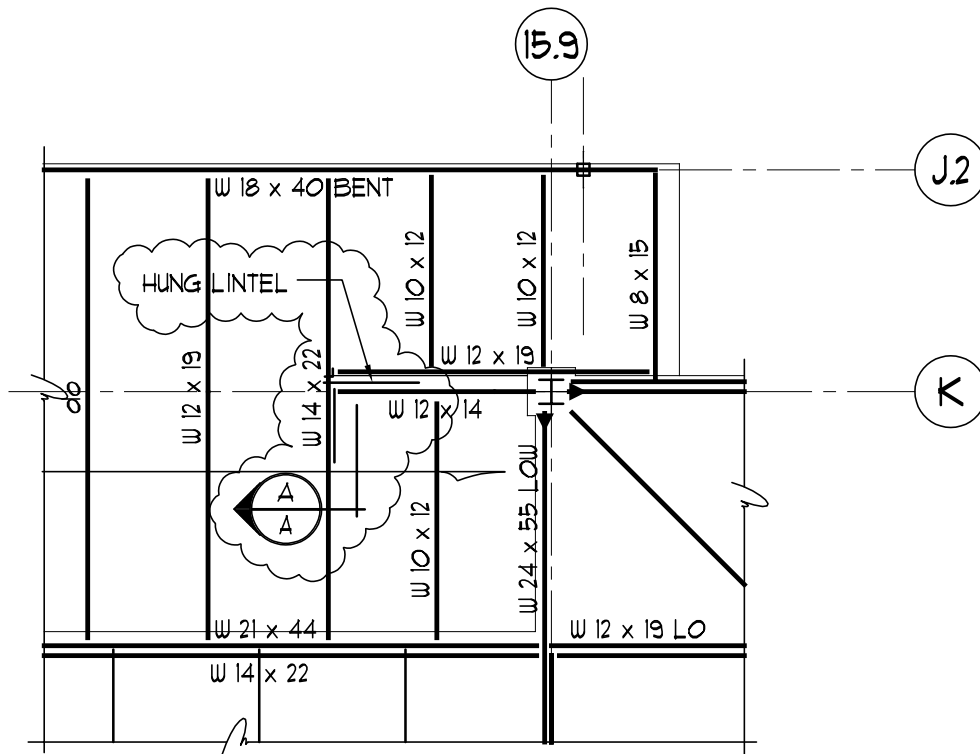
NOTE:
 PROVIDE SHORING AS REQUIRED TO INSTALL
 NEW STEEL BEAMS AND MECHANICAL UNIT.

Hebron Elementary School
 Hebron, Connecticut
 Additions and Renovations
 State Project Number : 067-029-EA

PARTIAL EXISTING FRAMING
 PLAN MECHANICAL UNIT HRU-1
 SCALE: 1/4" = 1'-0" SHEET REF. : D11, M1.1

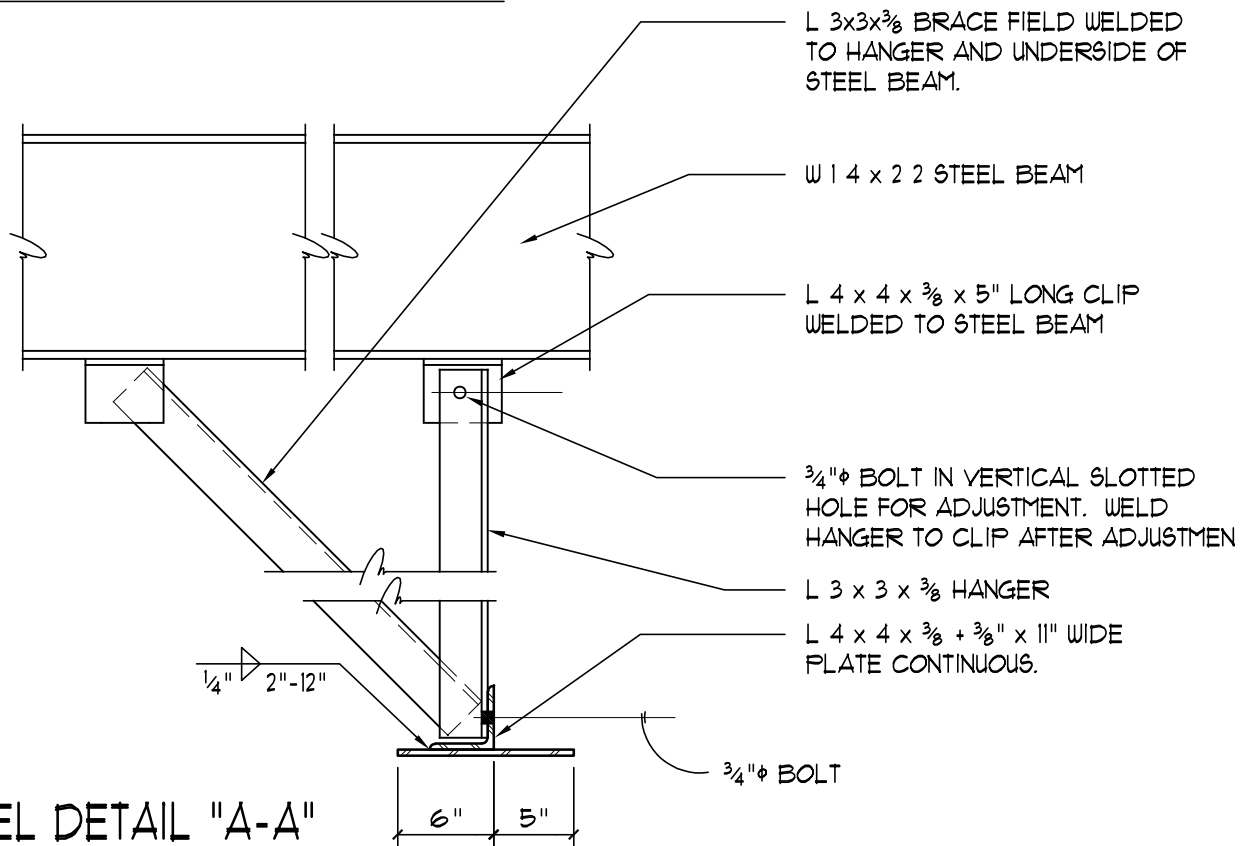
HSK-S33
 DATE: 4-10-00





PARTIAL FRAMING PLAN AREA "B"

1/8" = 1'-0"



HUNG LINTEL DETAIL "A-A"

1" = 1'-0"

Hebron Elementary School
Hebron, Connecticut
Additions and Renovations
State Project Number : 067-029-EA

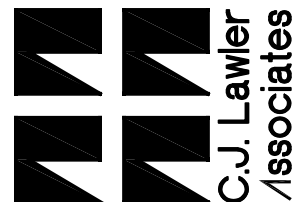
**HUNG LINTEL LINE "K"
AREA "B"**

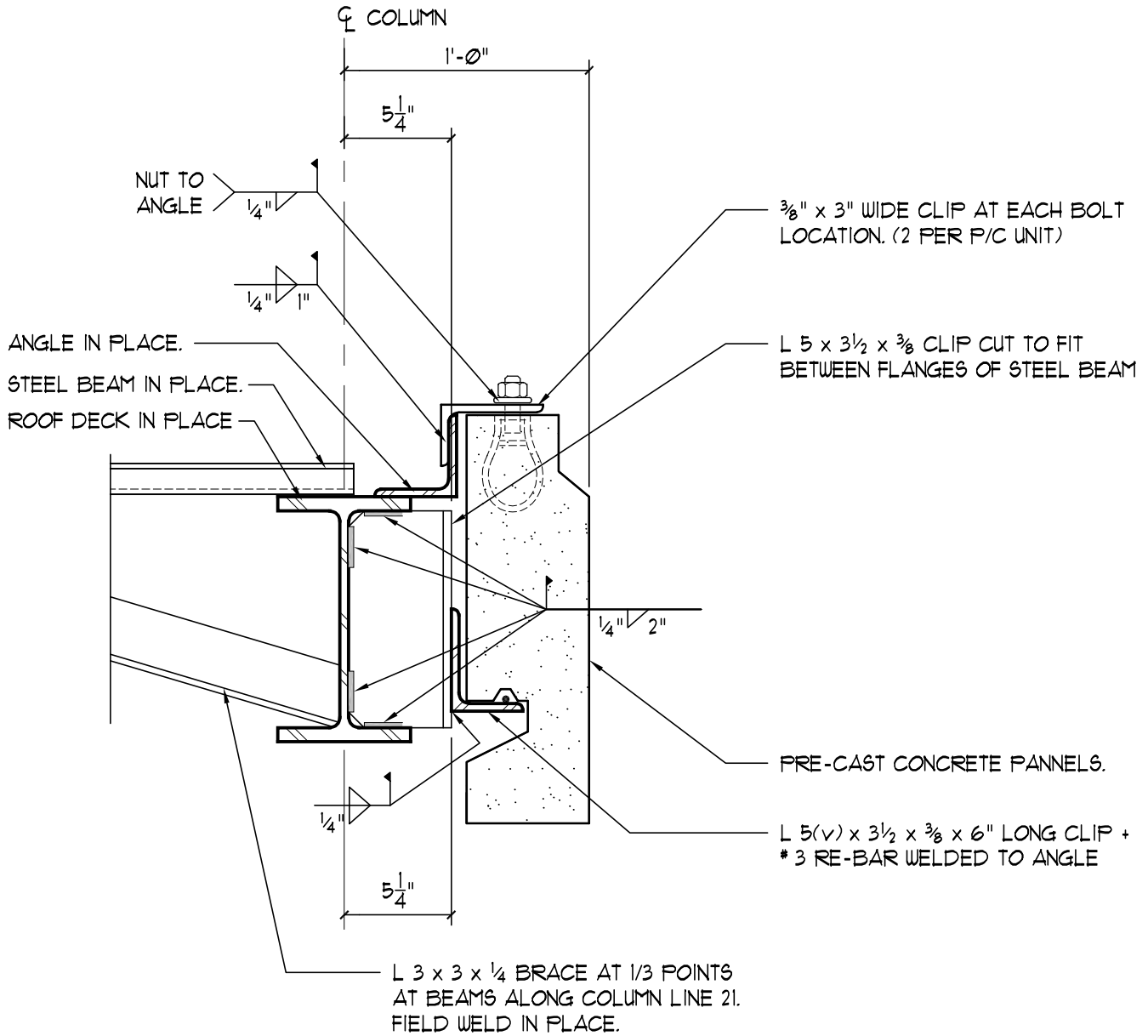
SCALE: 1/4" = 1'-0"

SHEET REF. : S2.2

HSK-S34

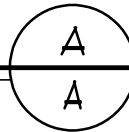
DATE: 4-10-00





TYPICAL SECTION

1 1/2" = 1'-0"



Hebron Elementary School
 Hebron, Connecticut
 Additions and Renovations
 State Project Number : 067-029-EA

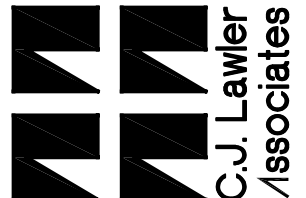
PRECAST CONCRETE SUPPORT
 GYM CANOPIES AREA "B"

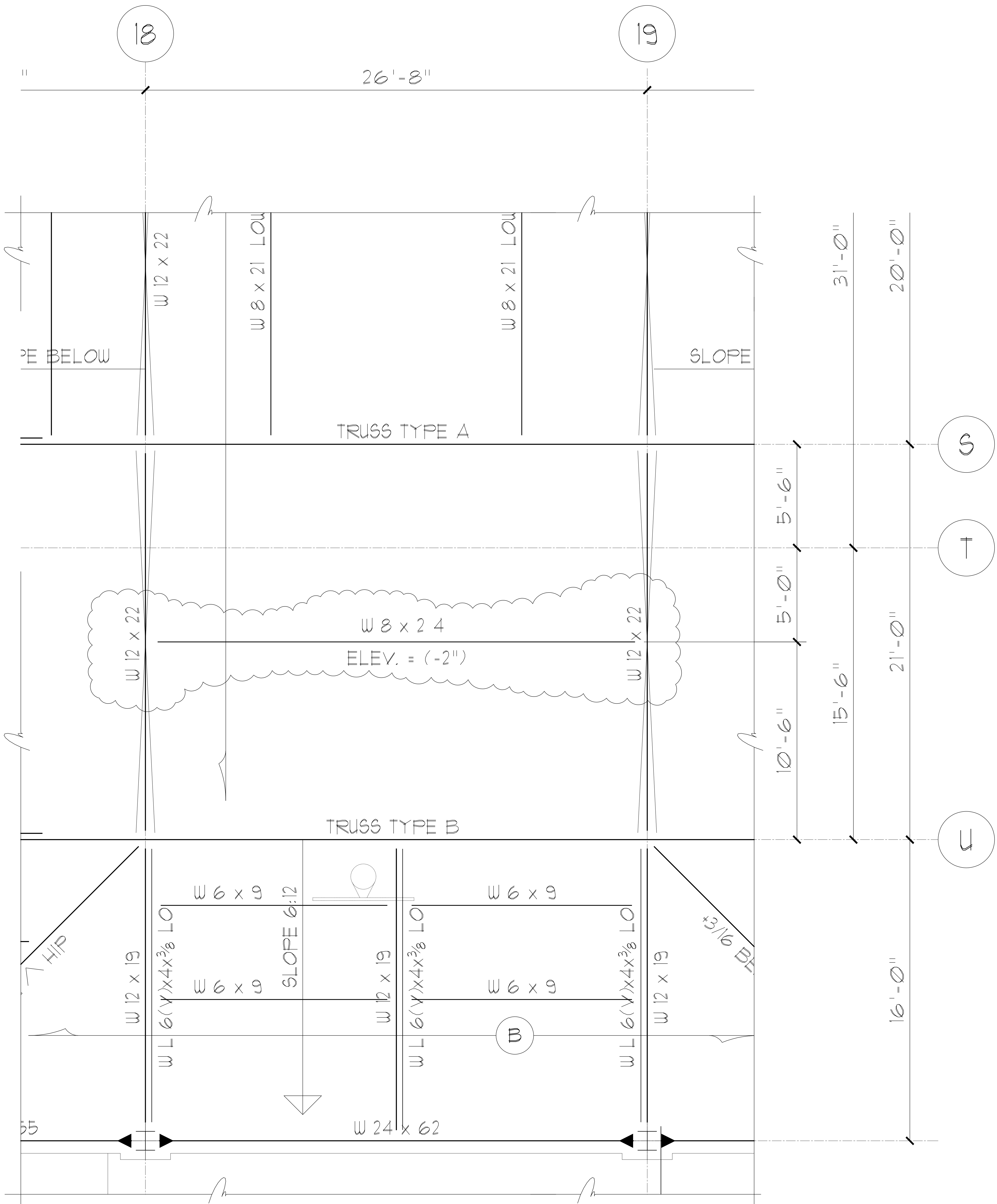
SCALE: 1 1/2" = 1'-0"

SHEET REF. : S2.2

HSK-S35

DATE: 5-1-00





NOTE:
 PROVIDE W 8 x 24 IN BAY "M"-"Q" BETWEEN LINES 18 AND 19
 TOP OF STEEL ELEVATION FOR W 8 x 24 (-2") FROM BOTTOM OF STEEL ROOF DECK.

Hebron Elementary School
 Hebron, Connecticut

Additions and Renovations
 State Project Number : 067-029-EA

MECHANICAL DUCT SUPPORT
 GYMNASIUM AREA "B"

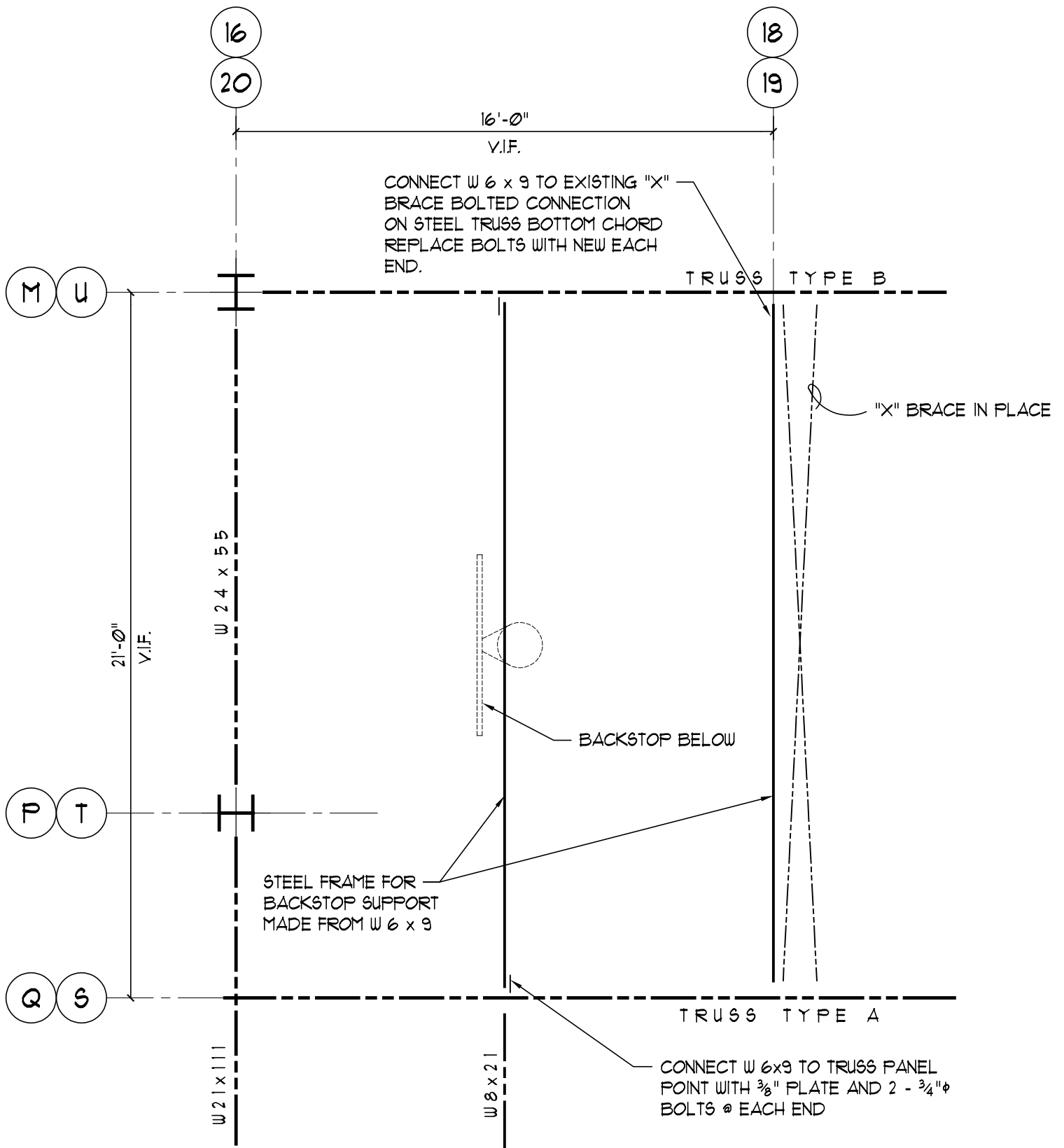
SCALE: 1/8" = 1'-0"

SHEET REF. : S2.2

HSK-S36

DATE: 5-2-00

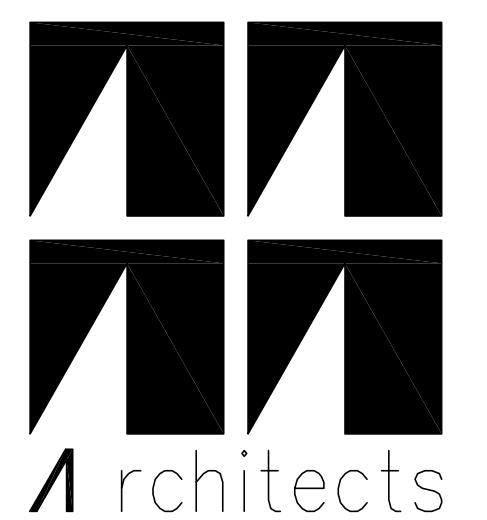




PARTIAL FRAMING PLAN

1/4" = 1'-0"

<p>Hebron Elementary School Hebron, Connecticut</p> <p>Additions and Renovations State Project Number : 067-029-EA</p>	<p>BACKSTOP SUPPORT GYM AREA "B" - 4 LOCATIONS</p> <p>SCALE: 1/4" = 1'-0" SHEET REF. : S2.2</p>	<p>HSK-S37</p> <p>DATE: 6-12-00</p>	 <p>C.J. Lawler Associates</p>
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C.J. Lawler & Associates
7 South Main Street, West Hartford, Connecticut 06107
(860) 233-8526 FAX: (860) 231-9063

GIRARD & CO. ENGINEERS
Structural Engineers
40 Wethersfield Avenue, Hartford, Connecticut 06114
(860) 524-5196 FAX: (860) 548-1463

M.R. ROMING ASSOCIATES
Landscape Architects - Land Planners
224 Whiting Lane, West Hartford, Connecticut 06119
(860) 233-1265 FAX: (860) 523-0191

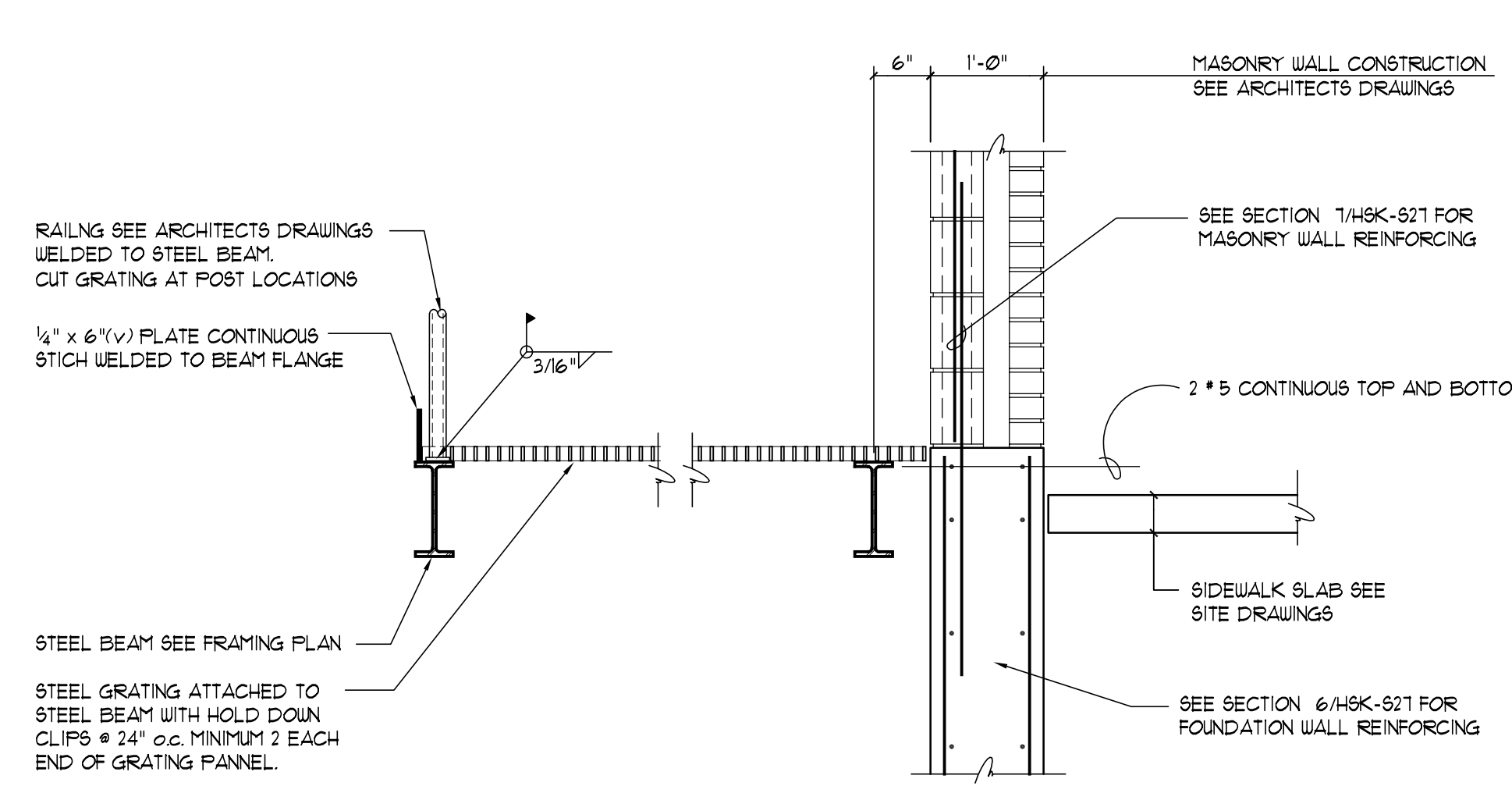
van ZELM HEYWOOD & SHADFORD INC
Mechanical and Electrical Engineers
28 South Main Street, West Hartford, Connecticut 06107
(860) 521-4329 FAX: (860) 521-4520

FOOD SERVICE DESIGN
Food Service
P. O. Box 18191, East Hartford, CT 06118
(860) 528-7101 FAX: (860) 528-8839

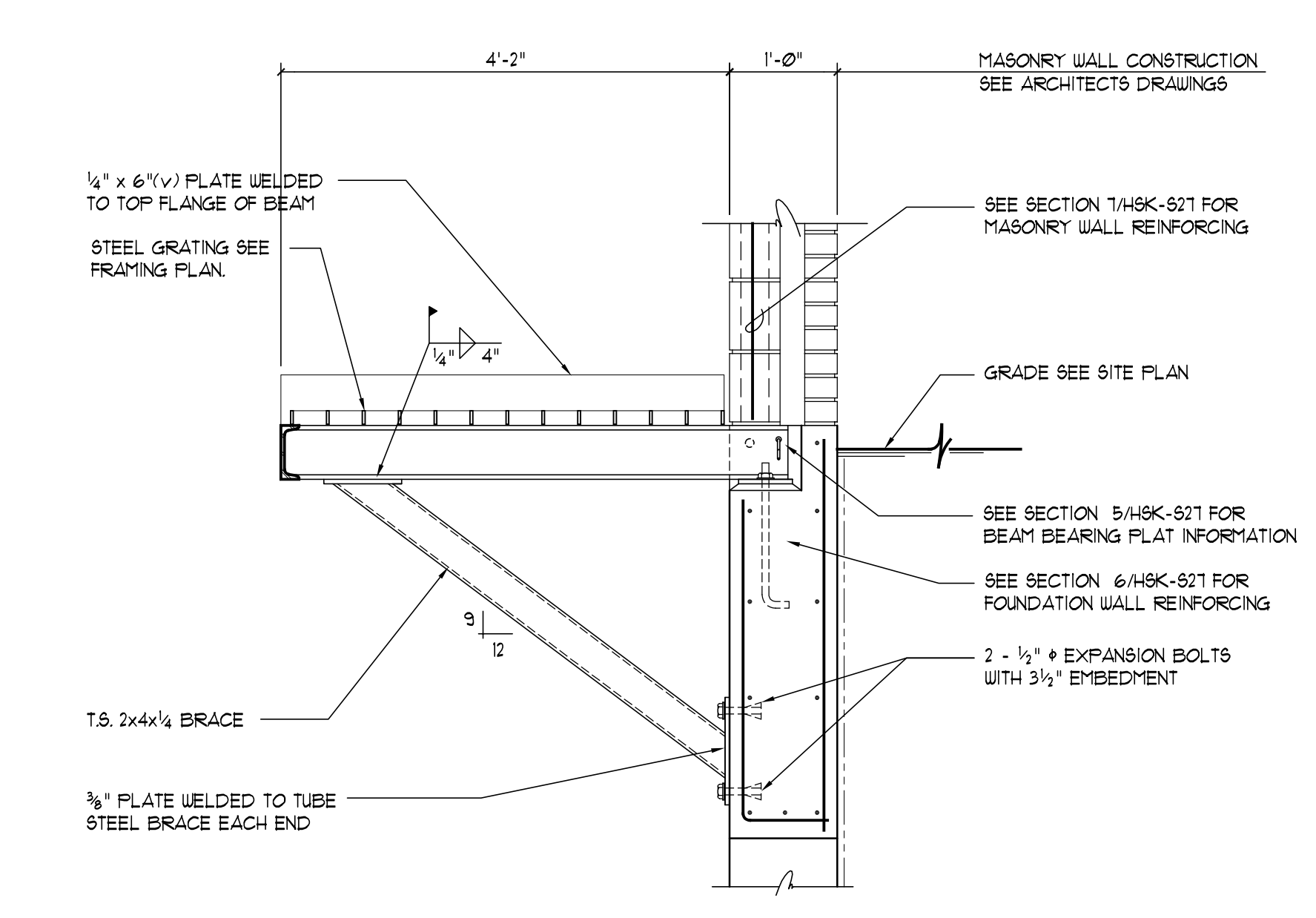
ENVIRO SAFE
Safety and Environmental Health Consultant Services
7 Rogers Lake Trail, Old Lyme, Connecticut 06371
(860) 434-8383 FAX: (860) 434-0336

CLARK ENGINEERING
Engineering Services
P. O. Box 419, Granby, CT 06035
(860) 653-4352 FAX: (860) 653-8256

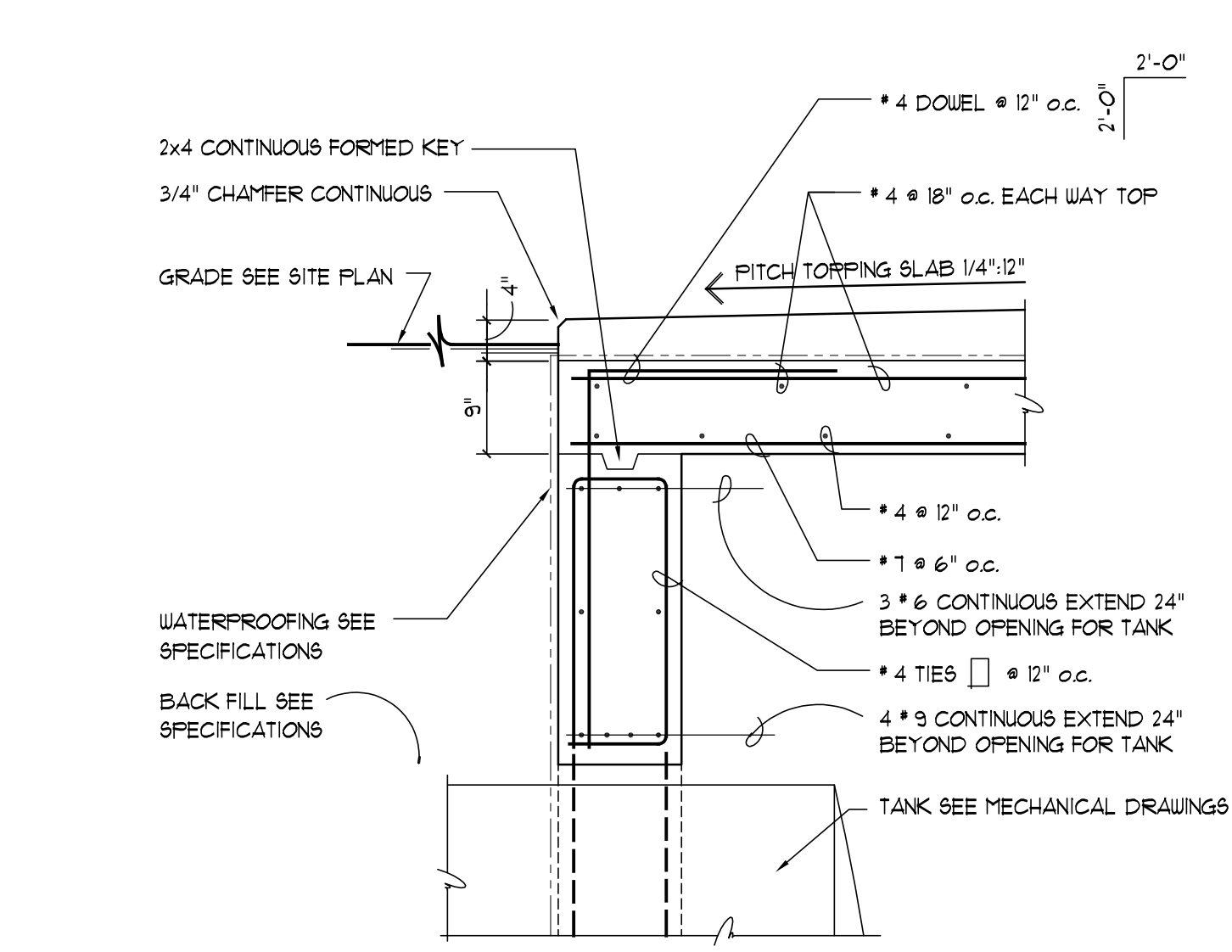
MEGSON & HEAGLE
Civil Engineers Land Surveyors
81 Rankin Road, Glastonbury, CT 06033
(860) 659-0587 FAX: (860) 657-4429



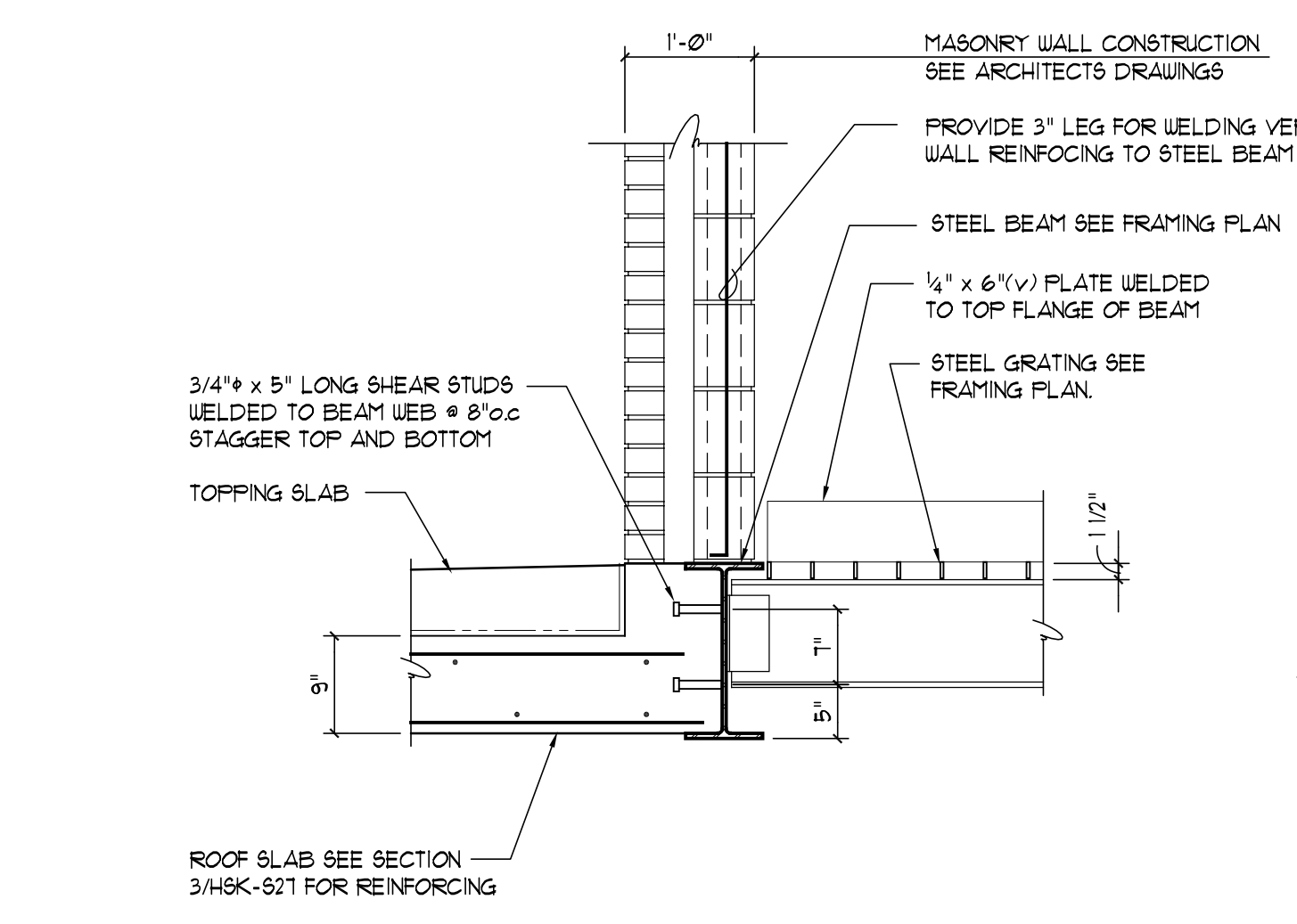
SECTION 1
3/4" = 1'-0"



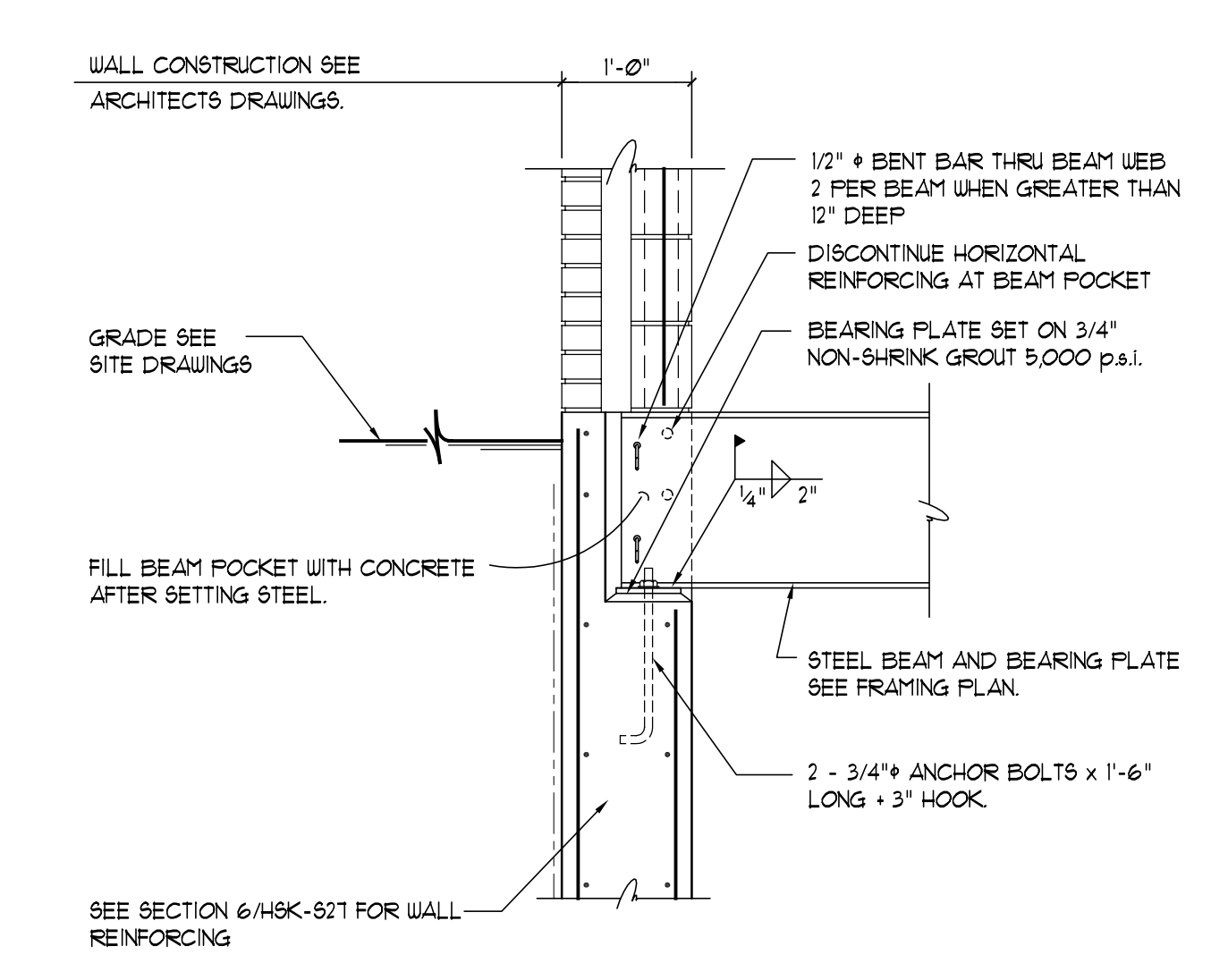
SECTION 2
3/4" = 1'-0"



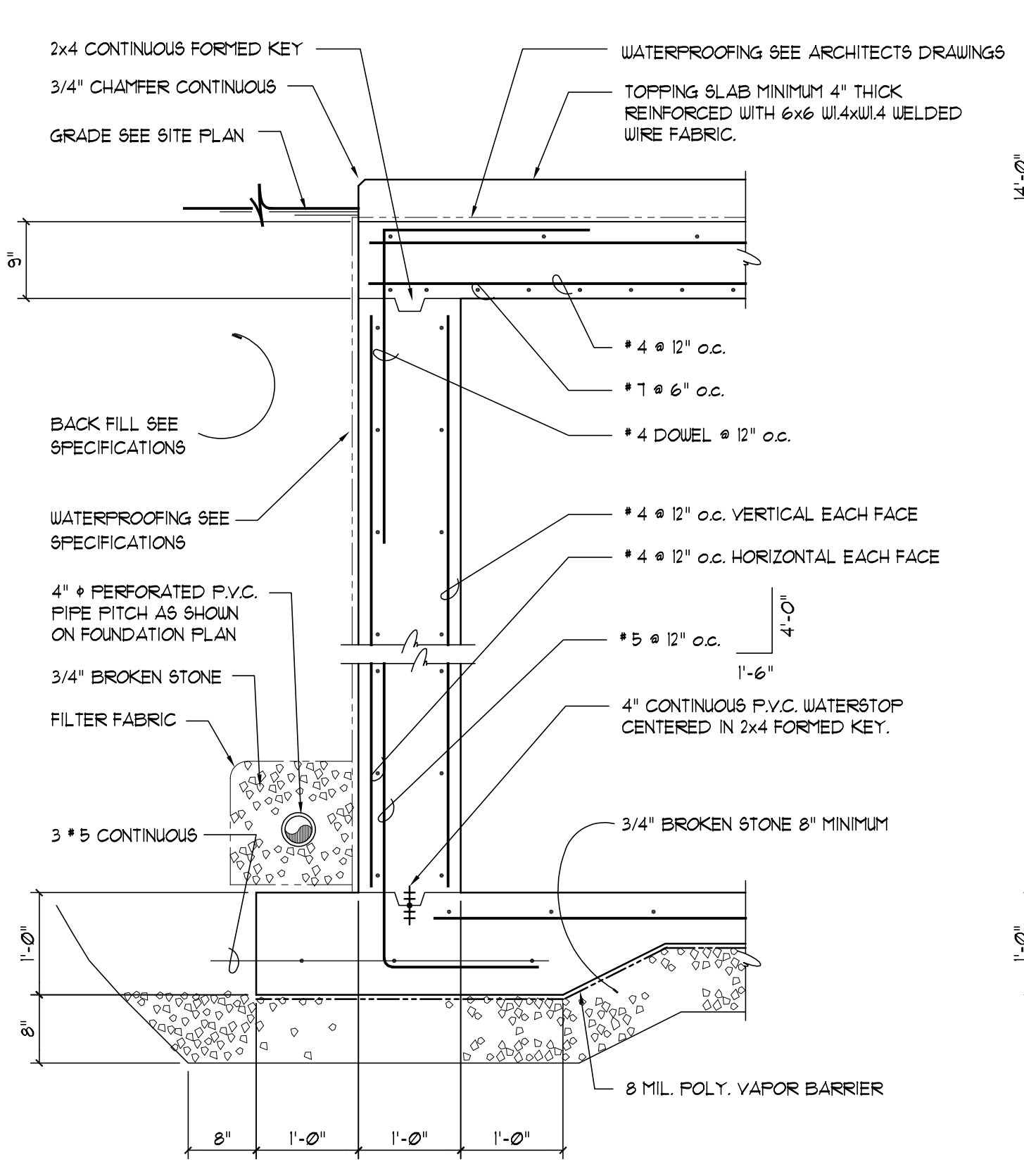
SECTION 3
3/4" = 1'-0"



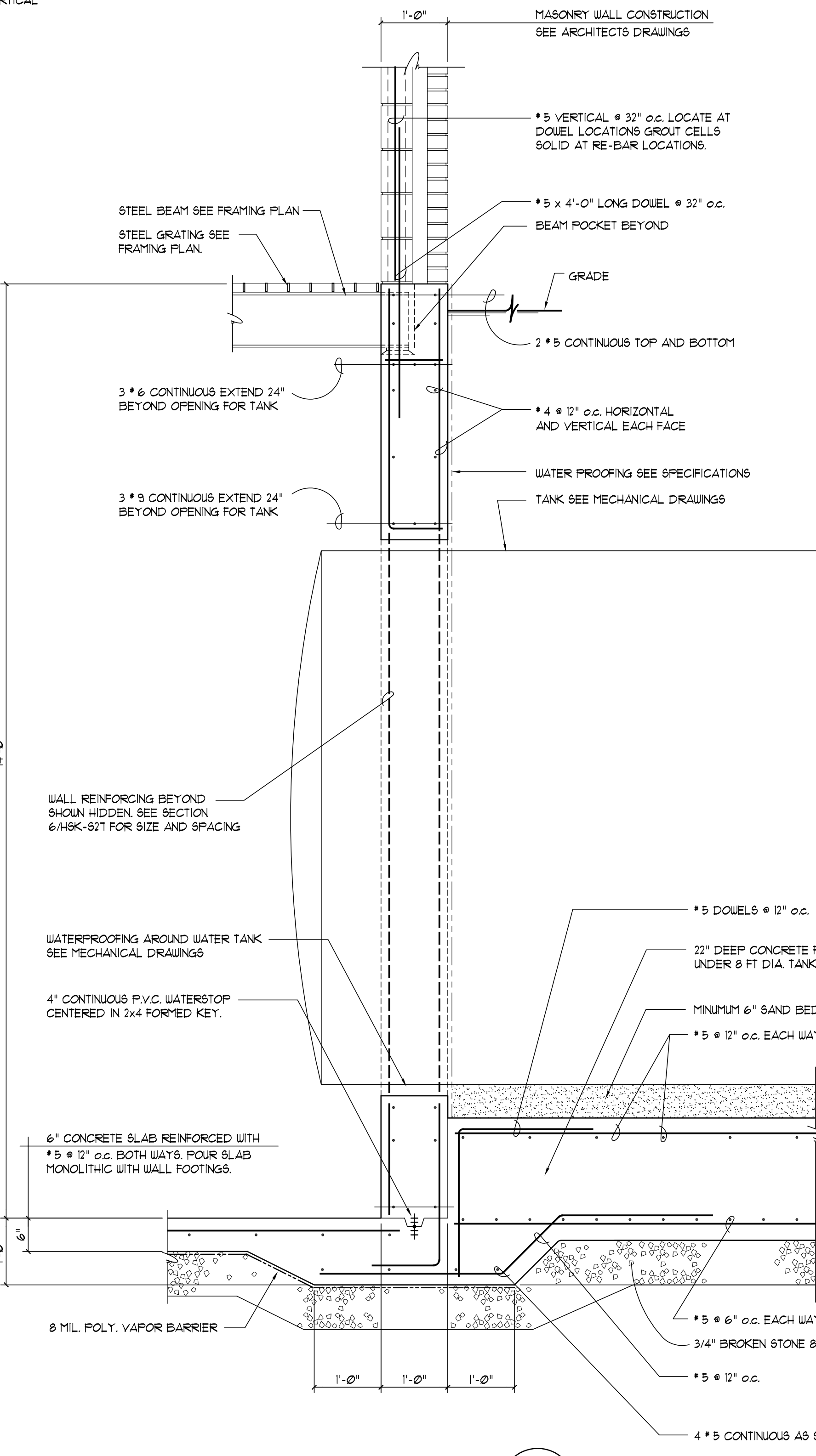
SECTION 4
3/4" = 1'-0"



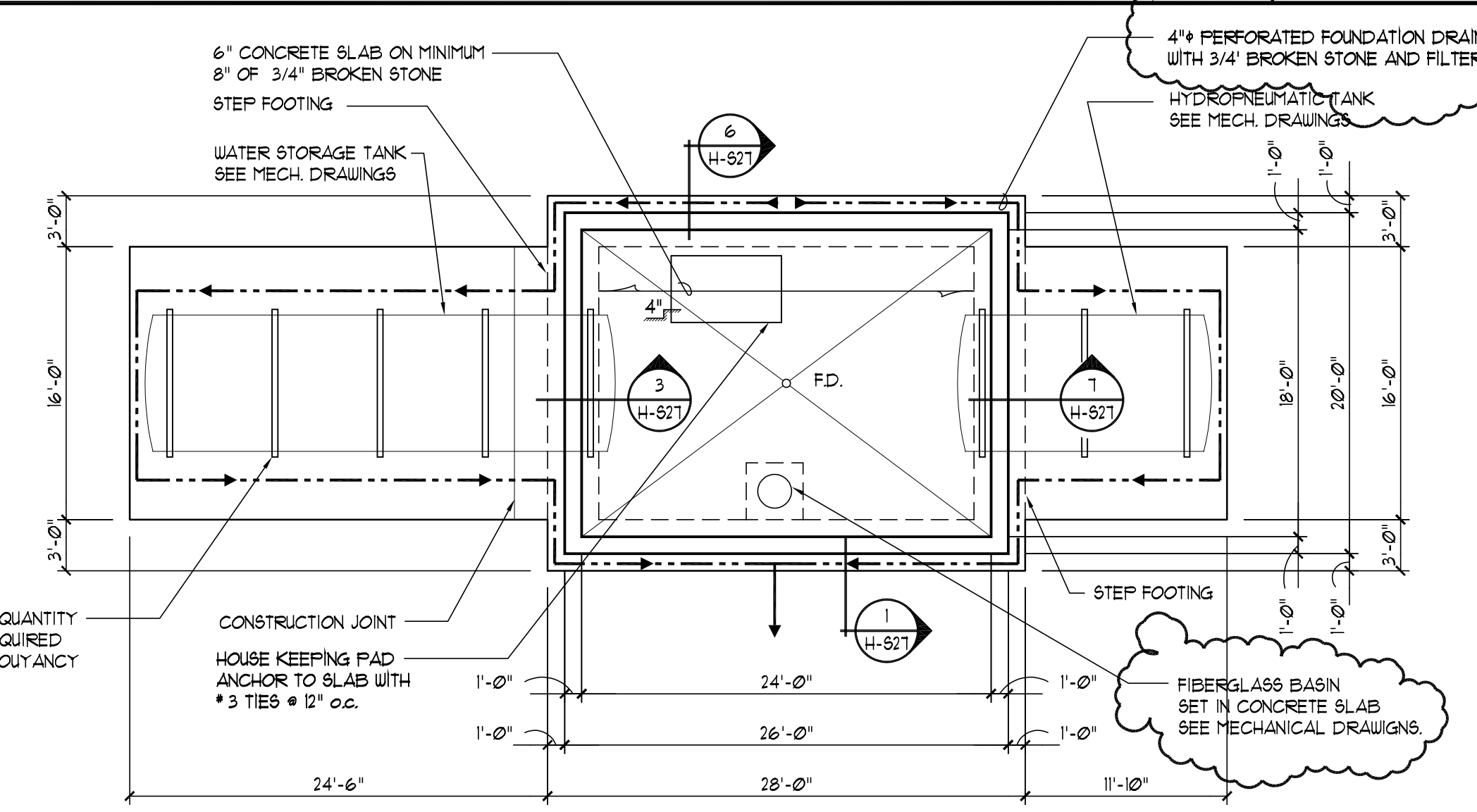
SECTION 5
3/4" = 1'-0"
TYPICAL BEAM BEARING PLATE DETAIL



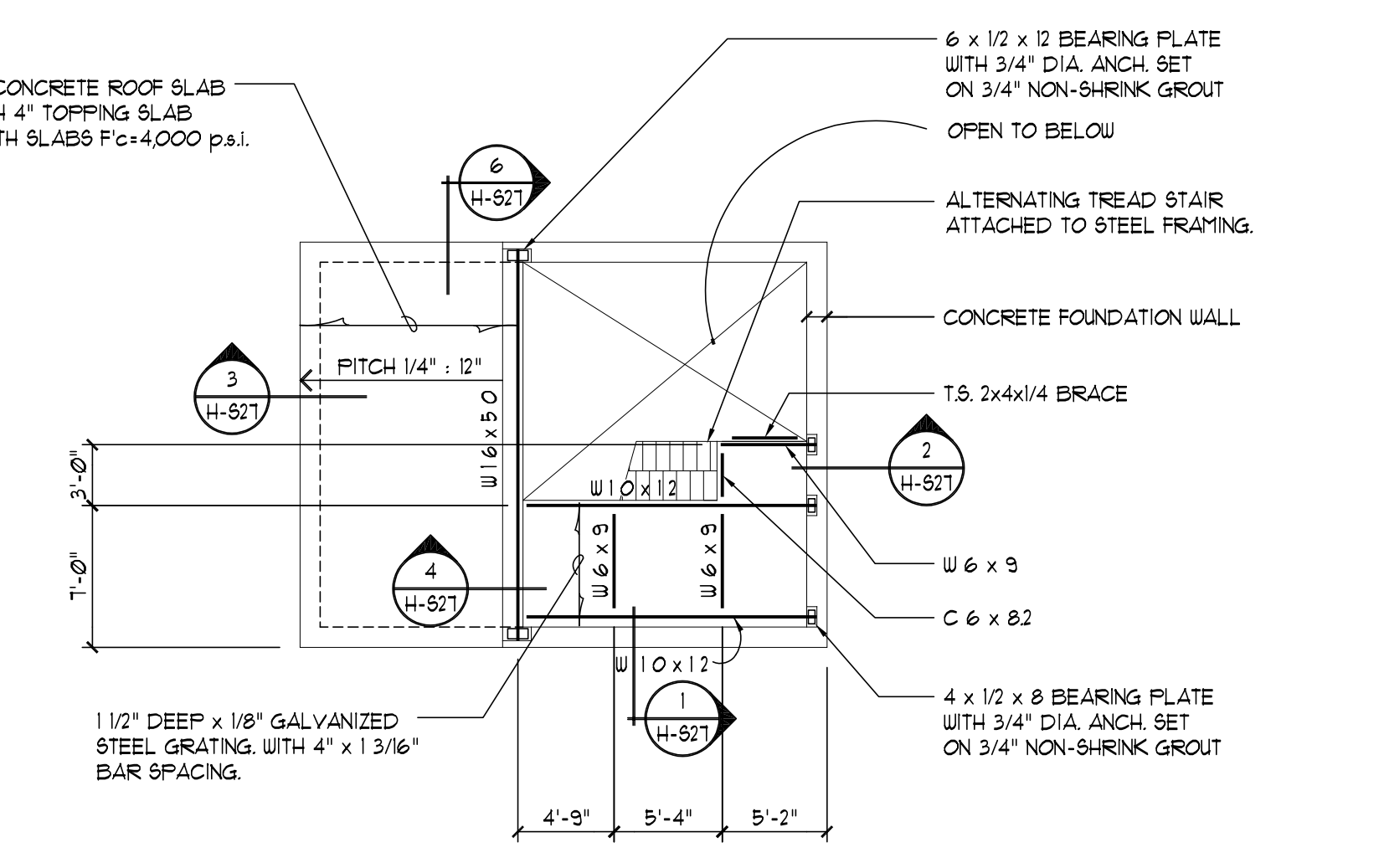
SECTION 6
3/4" = 1'-0"



SECTION 7
3/4" = 1'-0"

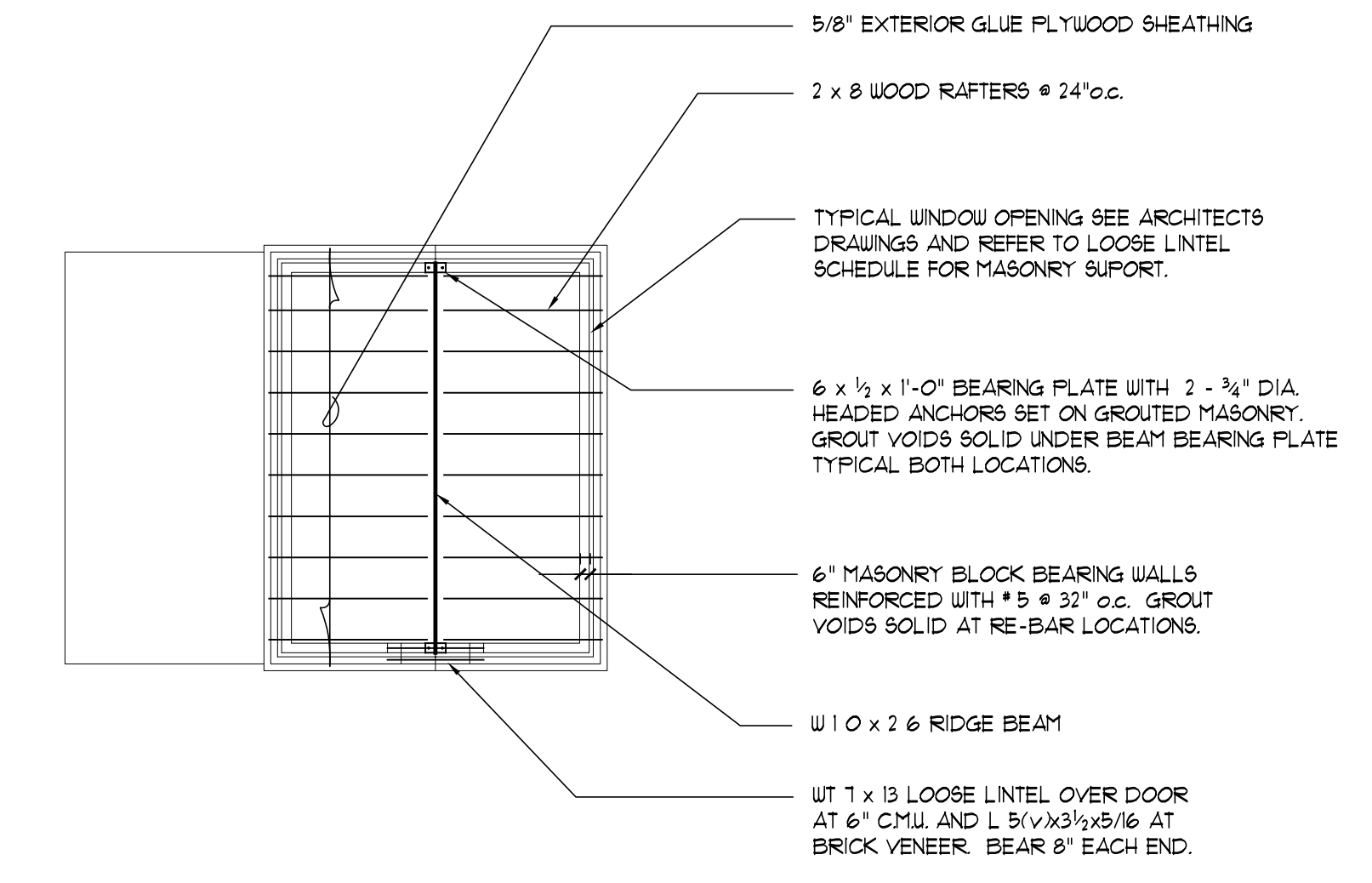


PUMP HOUSE FOUNDATION PLAN
1/8" = 1'-0"



PUMP HOUSE MEZZANINE FRAMING PLAN
1/8" = 1'-0"

- 1. MEZZANINE PLATFORM LIVE LOAD = 125 POUNDS PER SQUARE FOOT.
- 2. CONCRETE SLAB ROOF LIVE LOAD = 100 POUNDS PER SQUARE FOOT
- 3. SECTION MARKS NOTED H-S21 REFER TO THIS SHEET HSK-S21



PUMP HOUSE ROOF FRAMING PLAN
1/8" = 1'-0"

- 1. ROOF SNOW LOAD = 30 POUNDS PER SQUARE FOOT.
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR ROOF SECTIONS

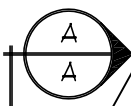
No.	Description	Date
Revisions		

PUMP HOUSE
STRUCTURAL PLANS
AND SECTIONS
Scale: AS NOTED Drawn By: KA
Date: 3 - 6 - 00 Checked By: MS

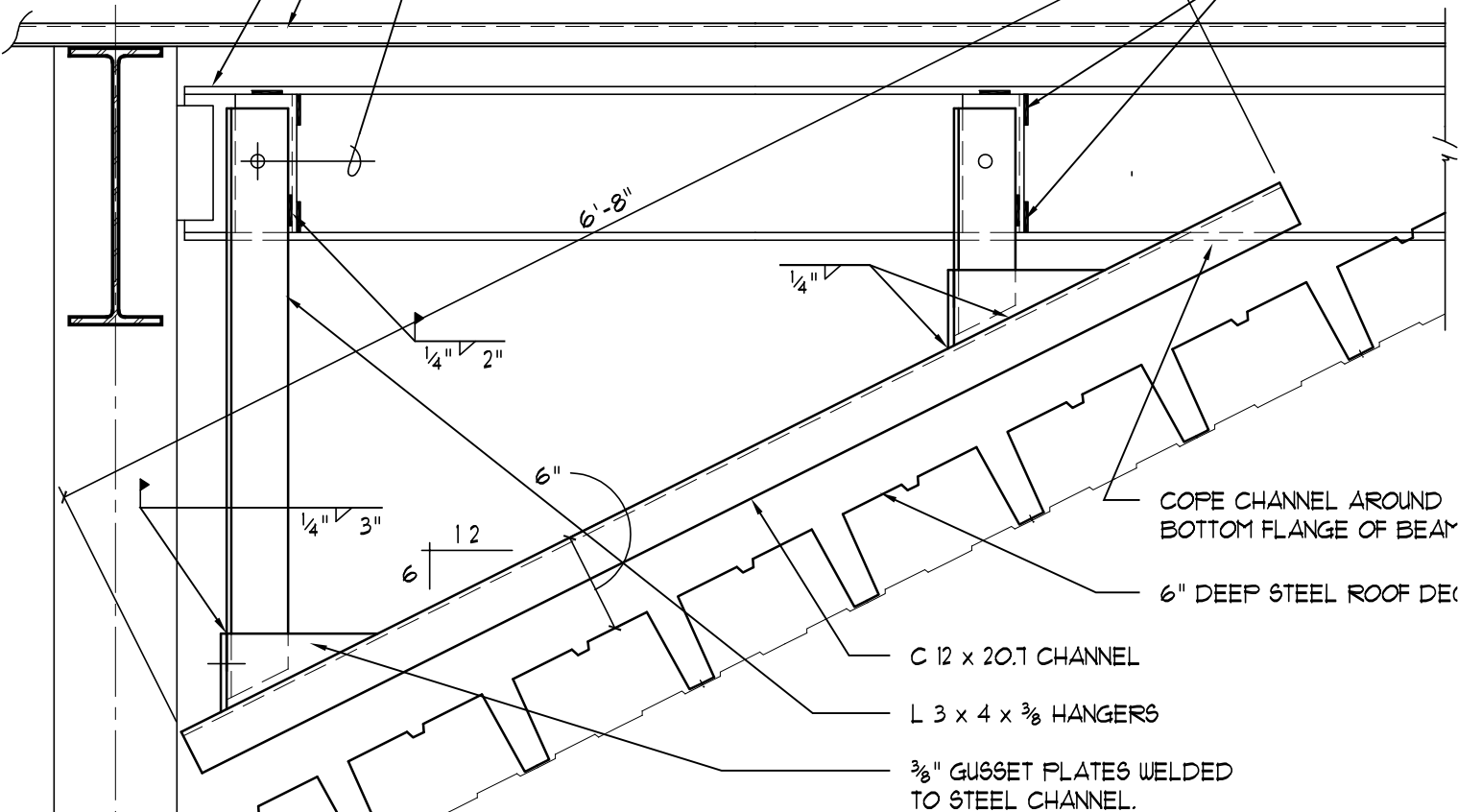
Hebron
Elementary School
Hebron, Connecticut
Additions and
Renovations
State Project Number
#067-029-EA

HSK-S27

(15.9)

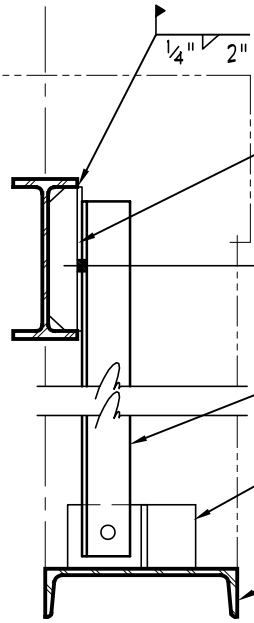


- W 10 STEEL BEAM IN PLACE
- 1 1/2" STEEL ROOF DECK
- 3/4" φ A325 BOLT TOP AND BOTTOM



- COPE CHANNEL AROUND BOTTOM FLANGE OF BEAM
- 6" DEEP STEEL ROOF DECK

- C 12 x 20.1 CHANNEL
- L 3 x 4 x 3/8 HANGERS
- 3/8" GUSSET PLATES WELDED TO STEEL CHANNEL.



- L 3 x 4 x 3/8 CUT TO FIT BETWEEN FANGES OF BEAM FIELD WELD IN PLACE,
- 3/4" φ A325 BOLT TYPICAL
- L 3 x 4 x 3/8 HANGERS
- 3/8" GUSSET PLATES WELDED TO STEEL CHANNEL.
- C 12 x 20.1 CHANNEL

SECTION A
A
1" = 1'-0"

Hebron Elementary School
Hebron, Connecticut

Additions and Renovations
State Project Number : 067-029-EA

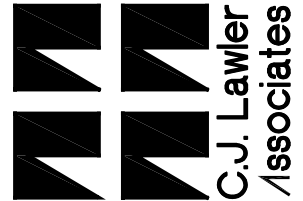
ELEVATION OF HUNG LINTEL
LINE "L" AND "V"

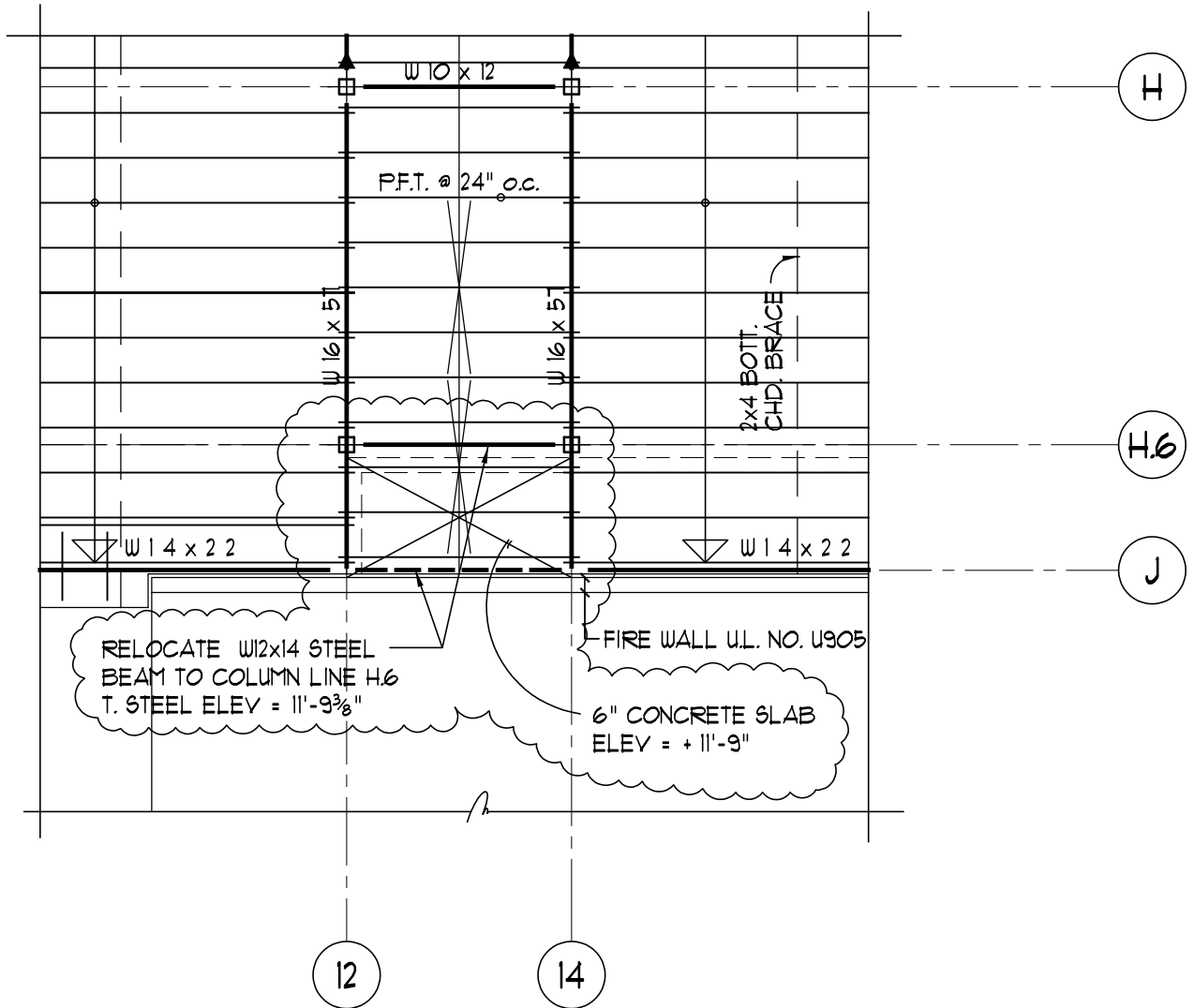
SCALE: 1" = 1'-0"

SHEET REF. : S2.2

HSK-S28

DATE: 3-20-00





PARTIAL ROOF FRAMING PLAN AREA "C"

1/8" = 1'-0"

Hebron Elementary School
Hebron, Connecticut

Additions and Renovations
State Project Number : 067-029-EA

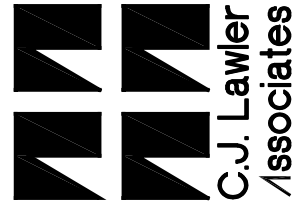
RELOACTED W12x14 STEEL
TIE BEAM TO LINE H.6

SCALE: 1/8" = 1'-0"

SHEET REF. : S23

HSK-S31

DATE: 3-31-00



HAND SKETCH

Hebron Elementary School
Hebron, Connecticut

Additions and Renovations
State Project Number : 067-029-EA

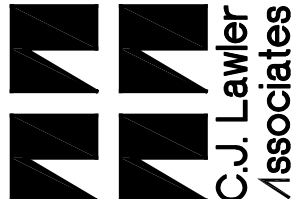
RELOADED W12x14 STEEL
TIE BEAM TO LINE H.6

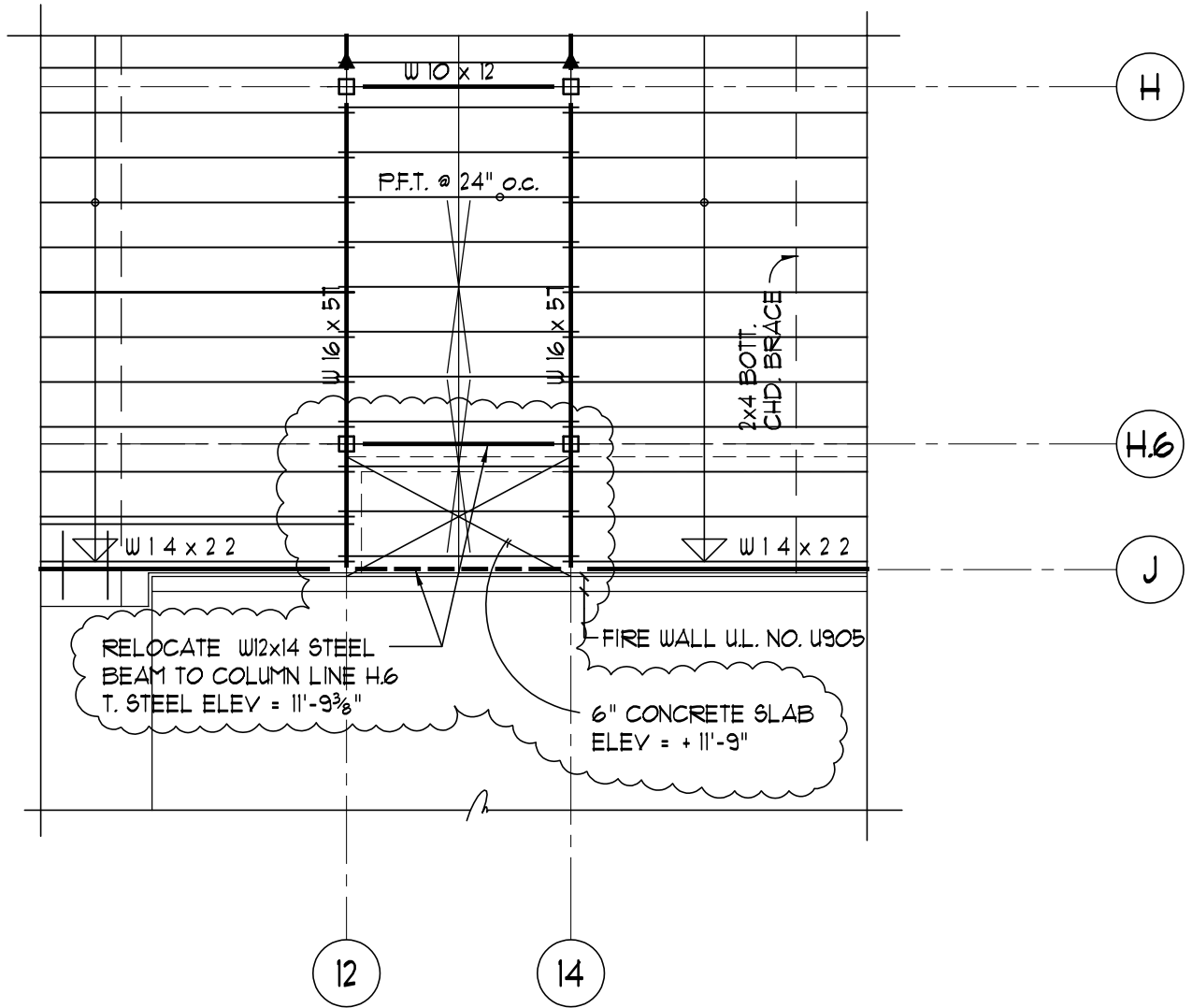
SCALE: 1/8" = 1'-0"

SHEET REF. : S23

HSK-S30

DATE: 3-31-00





PARTIAL ROOF FRAMING PLAN AREA "C"

1/8" = 1'-0"

Hebron Elementary School
Hebron, Connecticut

Additions and Renovations
State Project Number : 067-029-EA

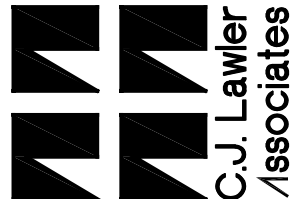
RELOACTED W12x14 STEEL
TIE BEAM TO LINE H.6

SCALE: 1/8" = 1'-0"

SHEET REF. : S23

HSK-S31

DATE: 3-31-00





INFRARED
PREDICTIVE
SURVEYS
INCORPORATED

INFRARED ROOF INSPECTION

Hebron Elementary School

FOR:

Tremco
Mr. Mike Boudreau

DATE:

March 11, 2020

BY:

Infrared Predictive Surveys, Inc.
P.O. Box 224
Adamstown, MD 21710

Phone: 301-831-1978
Toll Free: 800-869-3720
Fax: 301-874-2295

SYNOPSIS

An Infrared survey of the roofs was made at the Hebron Elementary School, located at 92 Church St., Hebron, CT. Visual observations have been made and the data has been documented.

INTRODUCTION

This report has been prepared for the exclusive use of Mike Boudreau at Tremco, for the specific application of the roofs at 92 Church St., Hebron, CT.

Authorization

Authorization to perform this evaluation, analysis and Infrared roof scan was in the form of a written agreement between Mike Boudreau at Tremco and Infrared Predictive Surveys Inc. (IPSI)

Scope

The scope of the roof survey included infrared thermography, capacitance and core sampling verification. Data from this survey has been incorporated into this final report.

Purpose

The purpose of the roof survey was to gain an overview of the condition of the roof areas.

General

Observations described in this report are based upon roof at the time of the survey and these conditions may change as the roof ages.

Infrared Predictive Surveys, Inc. warrants that these findings are published after being prepared in accordance with generally accepted practices of the construction industry. No other warranties are implied or expressed.

TEST INSTRUMENT DESCRIPTION

(Only testing that has been completed during your survey will be checked.)

Infrared Testing

The infrared roof survey locates moisture in a roof by seeking areas of increased surface temperature. Roof areas that contain moisture have higher thermal conductivity and capacitance than dry areas. During the heating season, heat from the building interior is lost at a greater rate through wet roof areas and their surface temperatures are elevated. Alternatively, during the cooling season, solar heat is absorbed into the wet area, and then retained for hours after the sun sets.

When viewed through the infrared imager, wet areas appear as brighter, lighter tones of gray in black-and-white images. Alternatively, in color images, wet areas will appear as hotter colors. A color scale appears at the side of color images. As colors progress upward, temperatures increase. In general, the higher the concentration of water, the higher the surface temperatures.

Because higher surface temperatures, and consequently hotter colors, may be produced by several phenomena not related to moisture intrusion, tests are made to verify the findings of the infrared inspection using destructive testing (core cuts) and other non-destructive tests (capacitance & nuclear). Wet areas found by infrared testing are illustrated with thermograms (photographs of infrared images).

Capacitance (Verification)

The Tramex capacitance meter is a mobile device that is used for detecting relative moisture content of roof areas. This non-destructive testing method is often combined with nuclear and thermal testing and/or moisture intrusion testing to accurately identify water entry pathways and areas of entrapped water. The Tramex moisture meter is designed for testing built up roofing and non-conductive single ply membrane. It provides instantaneous, clear indications of roof conditions and is able to detect as little as 2% excess moisture in roofing systems.

Core Sampling

Core samples consist of cuts through the roof membrane. The sample provides an absolute test of moisture content and location. The core cut also permits the constituents of the roof system, and their condition, to be determined. Core sample may be weighed, dried and reweighed to provide a quantitative measure of moisture content.

A cut is made into the roof with a two inch (2") circumference roof sampling tool. The repaired core cuts are made with an appropriate material.

Nuclear Backscatter-Verification

A radioactive isotope consisting of Americium-241 with a Beryllium target is utilized. The measurement method relies on the thermalization (slowing) of fast neutrons by the hydrogen atoms in water. Since other Hydrogen bearing materials also thermalize neutrons, a measurement survey is necessary to establish a relative base level before an analysis can be performed.

The meter used, Troxler 3216, is a portable instrument with a periodic counter to measure the rate of thermalization of neutrons.

EQUIPMENT USED

The qualitative infrared scan was conducted by a certified thermographer using a Mikron 7515 uncooled infrared imager. Lens for the Mikron was 29 degree FOV, 320 X 240 array with 7.5-13 spectral response. Temperature sensitivity is .1 degree C with accuracy of 2%.

FLIR PM1000

Tramex Meter

FIELD SURVEY METHODS

Visual Observations

Visual observations were made by Infrared Predictive Surveys, Inc. (IPSI) personnel. These observations included roofing structure, roof drainage, roof surface conditions and other accessory items.

Photographic Documentation

Photographs were made by IPSI personnel. While these photographs were not intended to provide a complete record of the roof, they do provide a visual description of typical roof conditions or selected problem areas.

PROJECT IDENTIFICATION

Project Location

92 Church St., Hebron, CT

INFRARED ROOF SCAN

Date of Scan: October 18, 2019

This scan was performed in conjunction with the visual roof survey conducted the same day. The purpose of this scan was to locate areas of suspected subsurface moisture and determine the extent of the moisture migration.

Environmental Conditions

October 18, 2019-Scan time temperature: 62°F.

FINDINGS AND RESULTS

Infrared Findings

Roof A

- No suspected wet areas were found on this roof section.

Roof B

- One (1) wet area was found on this roof section.
 - One (1) core cut was taken at wet area #B1.
 - #CC1 (Wet)
 - TPO
 - 1.5" Polyisocyanurate (Top: 70%; Bottom: 67%)
 - ½" Polyisocyanurate (Top: 78%; Bottom: 77%)
 - 3" Polyisocyanurate (Top: 72%; Bottom: 0%)
 - Metal Deck

Roof C

- No suspected wet areas were found on this roof section.

Roof D

- No suspected wet areas were found on this roof section.

Roof E

- No suspected wet areas were found on this roof section.



If additional information is required, please do not hesitate to contact me. Thank you again for giving us the opportunity to provide our services.

Sincerely,

Joseph Fitzpatrick
Infrared Predictive Surveys, Inc.
PO Box 224
Adamstown, MD 21710

Phone: 301-831-1978
Toll-Free: 800-869-3720
Fax: 301-874-2295
E-mail: joe@infraredpsi.com
Website: www.InfraredPSI.com

APPENDIX

- Maintenance Program
- Digital Photographs
- Infrared Photographs
- CAD Drawing



Hebron Elementary School



North side of building, looking South



Roof A-Overview, looking North



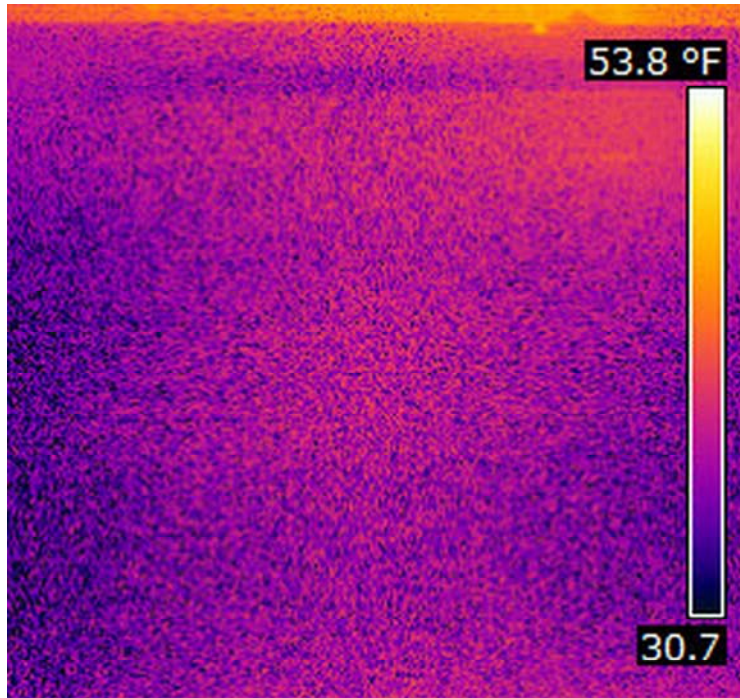
Roof A-Overview, looking East



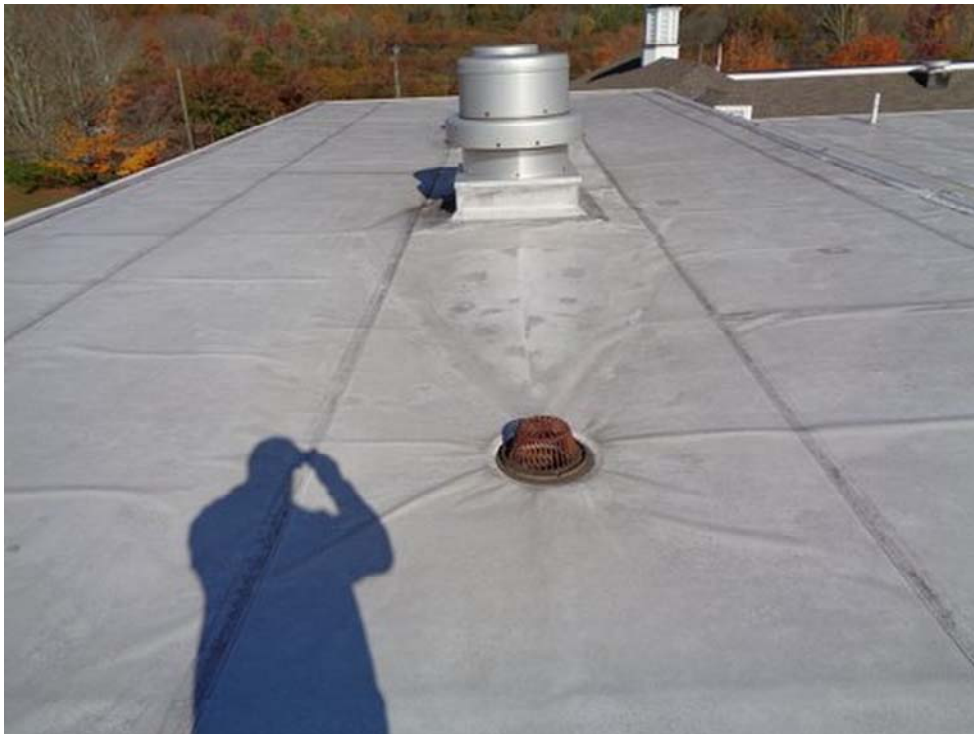
Roof A-Overview, looking South



Roof A-Overview, looking West



Roof A-No suspected wet areas identified or recorded on this roof section.



Roof B-Overview, looking East



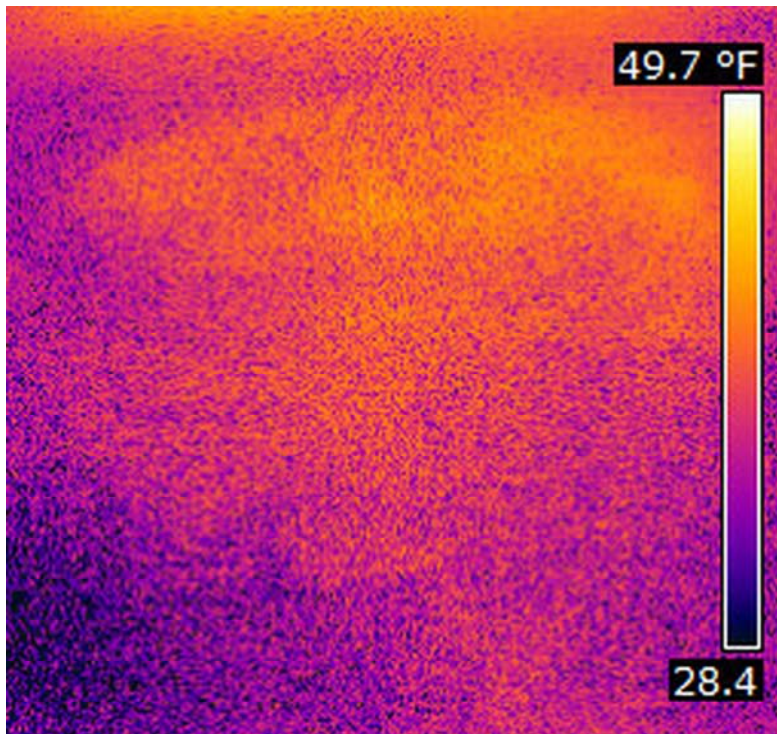
Roof B-Wet area #1, looking East



Core Cut #CC1-TPO, 1 1/2" Polyisocyanurate, 1/2" Polyisocyanurate, 3" Polyisocyanurate and a metal deck. (Wet)



Core Cut #CC1 repaired



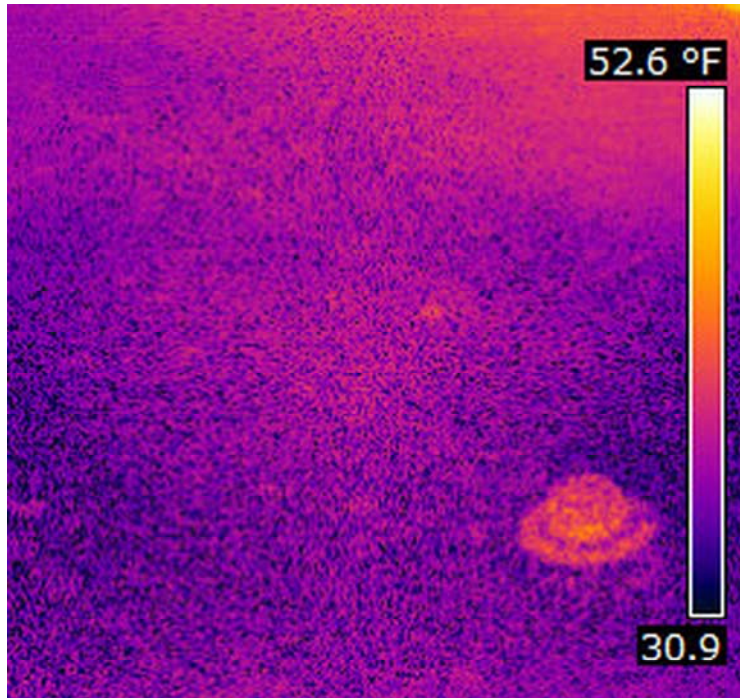
Wet area #1



Roof C-Overview, looking North



Roof C-Overview, looking East



Roof C-No suspected wet areas identified or recorded on this roof section.



Roof D-Overview, looking North



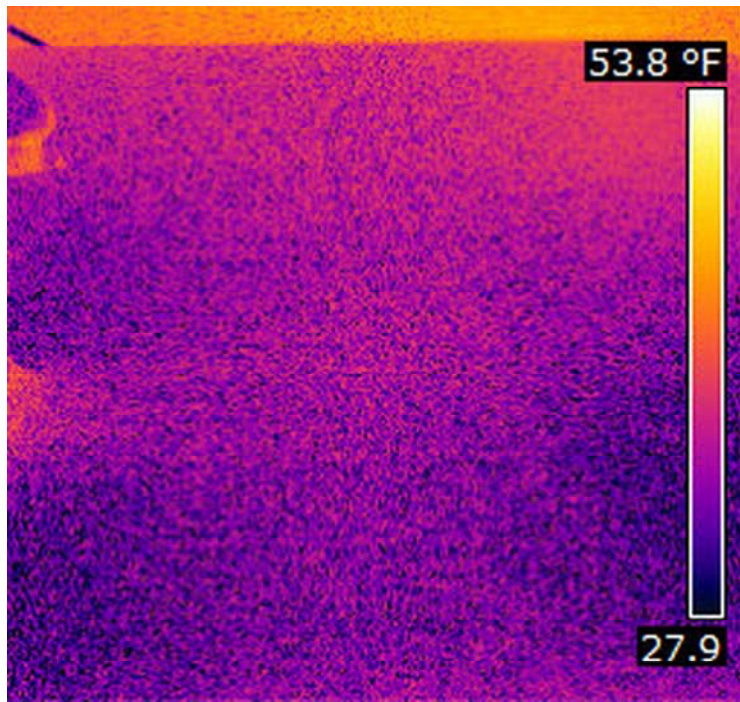
Roof D-Overview, looking East



Roof D-Overview, looking South



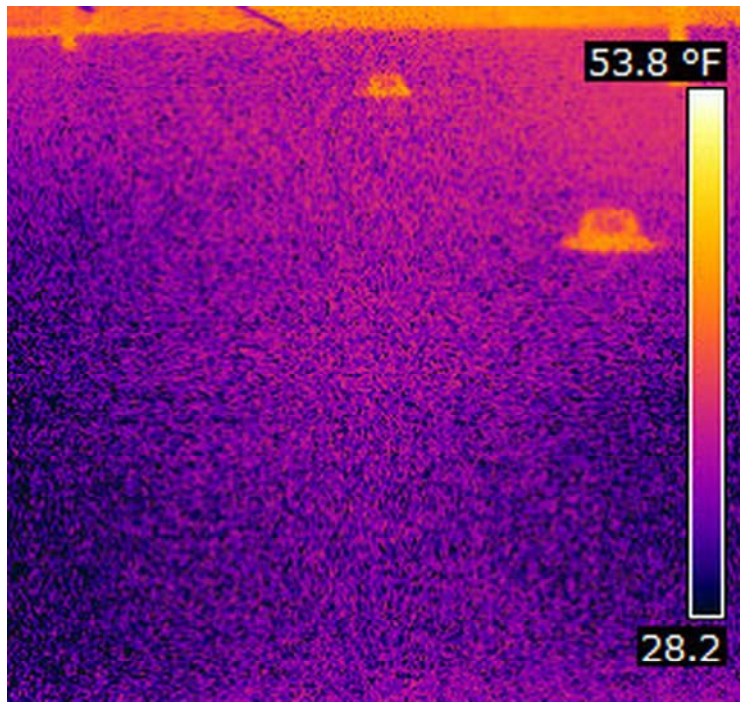
Roof D-Overview, looking West



Roof D-No suspected wet areas identified or recorded on this roof section.



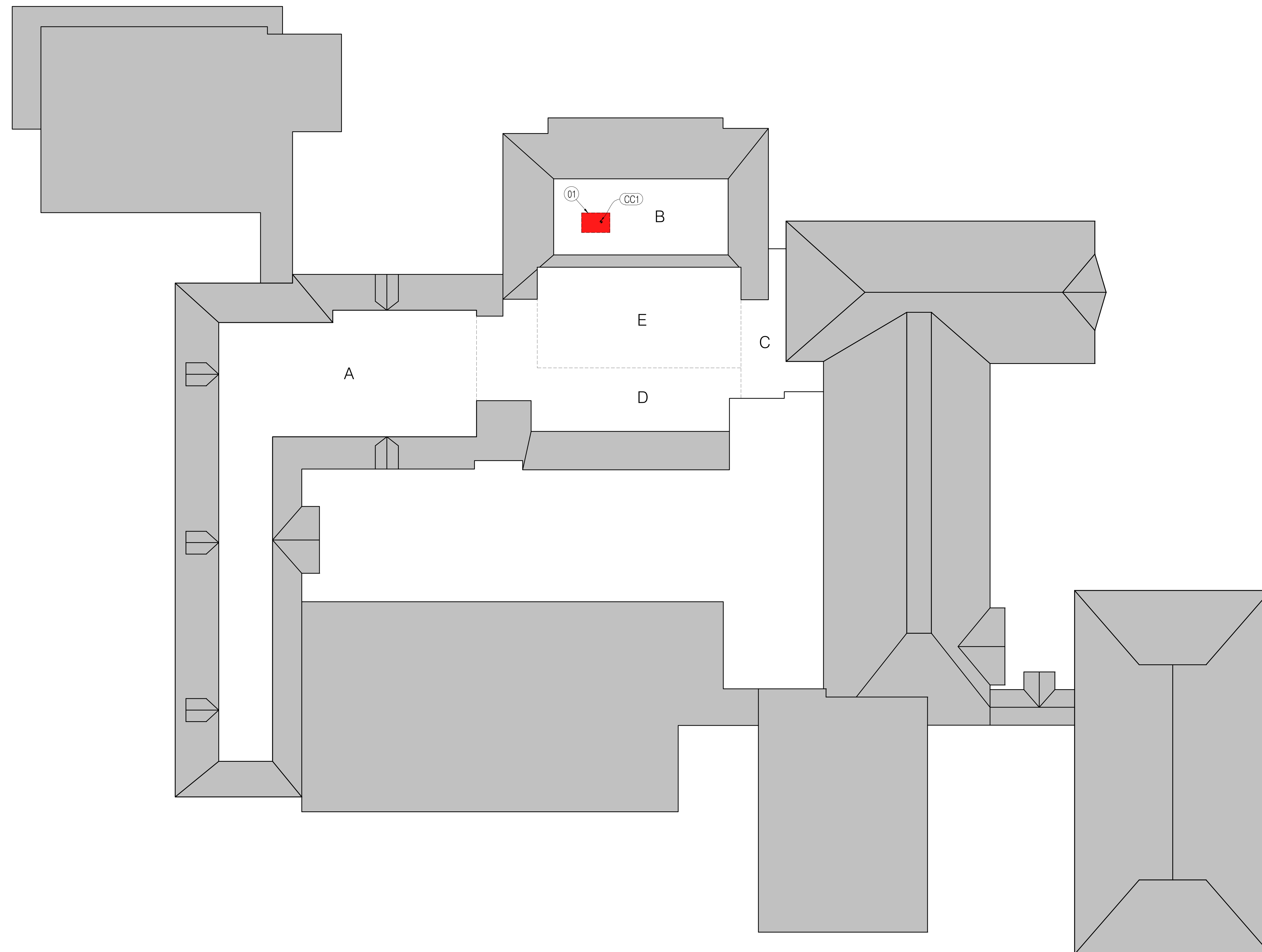
Roof E-Overview, looking East



Roof E-No suspected wet areas identified or recorded on this roof section.

'B' TOTAL SUSPECTED WET SQ FT = 70

AREA#	SIZE	SQ FT	NOTES
01	10' x 7'	70	CC1



SCAN NOTES:

- GRAY ROOF INDICATES AREA NOT SCANNED
- SUSPECTED MOISTURE AREAS SHADED RED
- NUCLEAR READINGS TAKEN ON A ' X ' GRID U.N.O.
- CC# = CORE CUT NUMBER, P# = PROBE NUMBER
- DATE OF SCAN : 10.18.19

ROOF SCAN OVERVIEW



HEBRON ES
92 CHURCH ST.
HEBRON, CT

BUILDING ROOF - MOISTURE SCAN

	INFRARED PREDICTIVE SURVEYS INCORPORATED	DRAWN:	DATE DRAWN:	REV:	SHEET NO.
	AJR	03/16/20	0	844A	

The Hebron Public Building Committee
On Behalf of
The Town of Hebron
And
Hebron Board of Education

HEBRON ELEMENTARY SCHOOL
RE-ROOFING PROJECT
PRE-SUBMISSION CONFERENCE
MARCH 12, 2024
11 AM

SIGN-IN SHEET

NAME	FIRM	PHONE NUMBER	E-MAIL ADDRESS
<u>UTKARSH PATIL</u>	<u>RUSSELL & DAWSON INC.</u>	<u>860-289-1100</u>	<u>utkarsh.patil@sdaep.com</u>
<u>ANDREW TARPILL</u>	<u>QA+M ARCHITECTURE</u>	<u>860 677 4594 x13</u>	<u>atarpill@qamarch.com</u>
<u>TOM HIBBARD</u>	<u>HIBBARD & PISA ARCH</u>	<u>860-961-2107</u>	<u>tom@hra.biz</u>
<u>Denise LaRose</u>	<u>Silver Petrucci,</u>	<u>203-230-9007 x240</u>	<u>dlarosa@silverpetrucci.com</u>
<u>Arthur J. Seetler,</u>	<u>Lehrup Associates Inc</u>	<u>(914) 787-0477</u>	<u>aseetler@lehrupassociates.com</u>
<u>Bob Ruten</u>	<u>FRIAR ARCH</u>	<u>860-678-1291</u>	<u>rwr@friar.com</u>
<u>AL JACUNSKI</u>	<u>JACUNSKI SUMMIT</u>	<u>860-928-9221</u>	<u>WBJACUNSKI@JASARCHITECTS.NET</u>
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