



Phone: (701) 280-0187
Fax: (701) 280-9021

**Moorhead Area Public Schools
New Elementary School
Moorhead, Minnesota**

Project No. 15-025

Bid Date & Time: Thursday, April 21, 2016 at 2:30pm
Date: April 18, 2016

ADDENDUM No. 2

The following additions, clarifications, deletions and/or changes shall be made to the SPECIFICATIONS:

Section 00 2100: Information to Bidders

1. Paragraph 1.23 Material Only Contracts, B – Omit and replace with the following:
B. No performance or payment bond shall be required for “Material Only” contracts.

Section 07 4264: Metal Composite Wall Panels

1. Paragraph 1.01 – Add the following paragraph C.
C. Fire-Retardant Treated Wall Sheathing
2. Paragraph 2.02.A.2 – Omit and replace with the following:
2. Provide panel jointing and an open 1-piece, tight-fit system at panel joints. Outside building corners shall be routed and returned.
3. Paragraph 2.03 Materials – Add the following paragraph H.
H. Wall Sheathing: Plywood behind MCM wall Panels shall be: PS 1, CDW plugged or better.
 1. Fire-Retardant Treated Plywood: Comply with requirements of AWPA U1.

Section 08 7100: Door Hardware

1. Paragraph 3.5, HW Set 08.1 – Omit and replace with the following:

Qty	Description	Catalog Number	MFR
2 EA	Cont. Hinge	700	IVE
1 EA	Keyed Removable Mullion	KR4954	VON
2 EA	Panic Hardware	CD-98-L	VON
5 EA	Cylinder Housing	As Required	BES
2 EA	Surface Closer	4011/4111 EDA	LCN
2 EA	Wall Stop	WS406	IVE

Function: (ANSI/BHMA 08) Latchbolt retracted by depressing the actuation bar. Entrance by lever. Key locks or unlocks lever.

The following additions, clarifications, deletions and/or changes shall be made to the DRAWINGS:

General Clarification

1. Revise insulation thickness at all foundation walls to 3" in lieu of the previously indicated 2".

Sheet A0.5 – Partition Types

1. Interior Wall Types, Type S4 – see attached revised detail:
 - a. Add the following note: "@ 2-hour rated locations, (2) layers of 5/8" type X GWB on (2) sides of 3 5/8" mtl. framing @ 24" O.C. by 9B"
 - b. Add the following note: "Where indicated, partition shall receive a 2-hour rating, constructed per requirements of GA file no. WP 1522."

Sheet A3.10 – Enlarged Plan – Area A

1. Enlarged Floor Plan – Area A:
 - a. Revise plan to indicate wall type M8 in lieu of the previously indicated S5 at second exit from Music Learning Center 110.
 - b. Return face brick into Vestibule V105 as indicated on attached revised plan.

Sheet A3.11 – Enlarged Plan – Area B

1. Enlarged Floor Plan – Area B:
 - a. Add column wraps along grid K in Hall H06, see attached revised plan. Insert attached details 5 & 6/A3.11
 - b. Continue 2-hour fire wall northward into Classroom 132; terminate assembly at aluminum opening. See revised detail 16/A3.12.

Sheet A3.12 – Enlarged Plan – Area C

1. Insert revised plan detail 16/A3.12.

Sheet A3.91 – Aluminum Door Schedule & Frame Details

1. Aluminum Door Schedule:
 - a. Doors 140A and 140B shall be hardware group 1.

END OF ADDENDUM No. 2

PLAN KEYNOTES

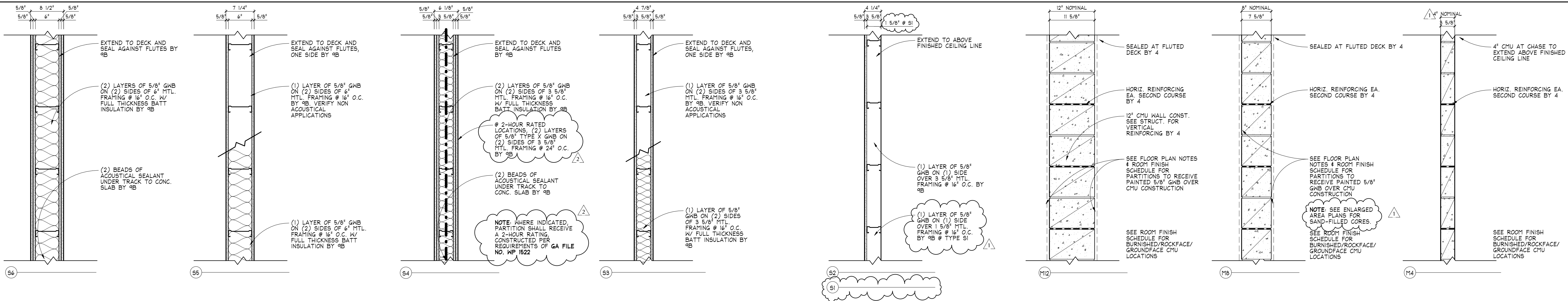
FLOOR PLAN KEYNOTES

- 3 - DENOTES 2 HOUR FIRE WALL CONSTRUCTION. EACH CONTRACTOR TO FIRESTOP AND SEAL ALL PENETRATIONS THROUGH RATED CONSTRUCTION.
- 4 - INDICATES MASONRY CONTROL JOINTS BY BID PACKAGE 4.
- 5 - SEE EXTERIOR ELEVATIONS AND FLOOR PLANS FOR LOCATIONS AND DETAILS ON REFERENCE DRAWING A0.5.
- 6 - RECESS CONCRETE FLOOR SLAB BY BID PACKAGE 3A. - KITCHEN COOLER AREA RECESS 2 1/2" W/ SLAB TOLERANCE AT 1/8" VTL. EACH DIRECTION. VERIFY WITH KITCHEN EQUIPMENT SCHEDULE.
- 10 - POWER ASSISTED DOOR AND ACTUATION PADS LOCATION BY BID PACKAGE 3B. POWER ROUGH-IN BY BID PACKAGE 2A.
- 15 - VOLLEYBALL SLEEVES & NET SYSTEM. PROVIDE (2) SLEEVES AT EACH COURT. PROVIDE (4) NETS & STANDARDS TOTAL. REFER TO DETAIL 21A3.10.
- 16 - CMU CONSTRUCTION TO RECEIVE SAND FILLED CORE.
- 17 - BURNISHED CMU CONSTRUCTION. REFER TO A0.6 FOR CMU WALL PATTERN TYPES.

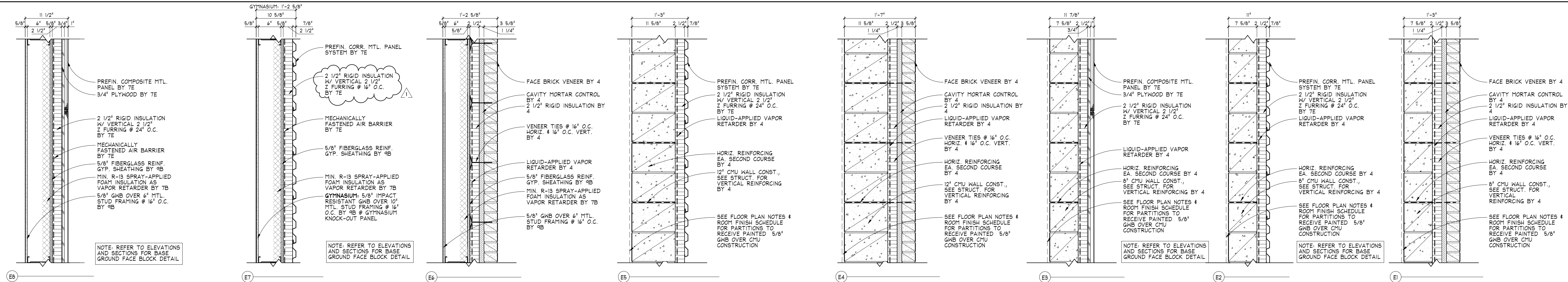
ROOF PLAN KEYNOTES

- 1 - ROOF HATCH, REFER TO DETAIL 36/A3.61.
- 2 - ROOF ACCESS LADDER, REFER TO DETAILS 2-3/A3.60.
- 3 - ROOF PADS.
- 4 - ROOF DRAIN, REFER TO DETAIL 34/A3.61.
- 5 - ROOF OVERFLOW DRAIN, REFER TO DETAIL 34/A3.61.
- 6 - ROOF CURB, REFER TO DETAILS 33/A3.61.
- 7 - MECHANICAL UNIT ROOF CURB, REFER TO DETAILS 32/36/A3.61.
- 8 - ROOF TUBULAR SKYLIGHTS, REFER TO DETAIL 30/A3.61.
- 9 - ROOF SCUPPERS, REFER TO DETAILS 24-27/A3.61.

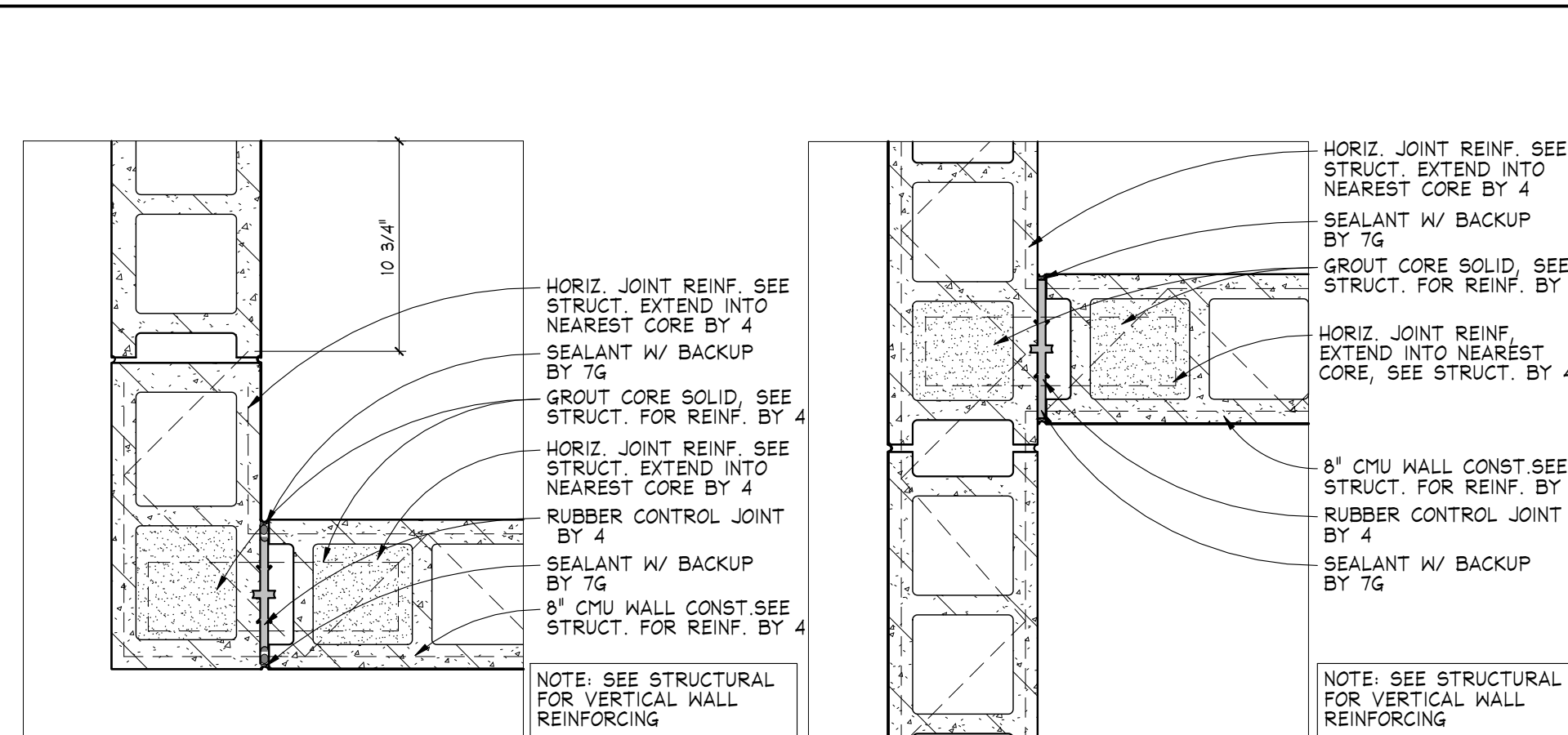
INTERIOR WALL TYPES



EXTERIOR WALL TYPES



TYPICAL CONTROL JOINT DETAILS



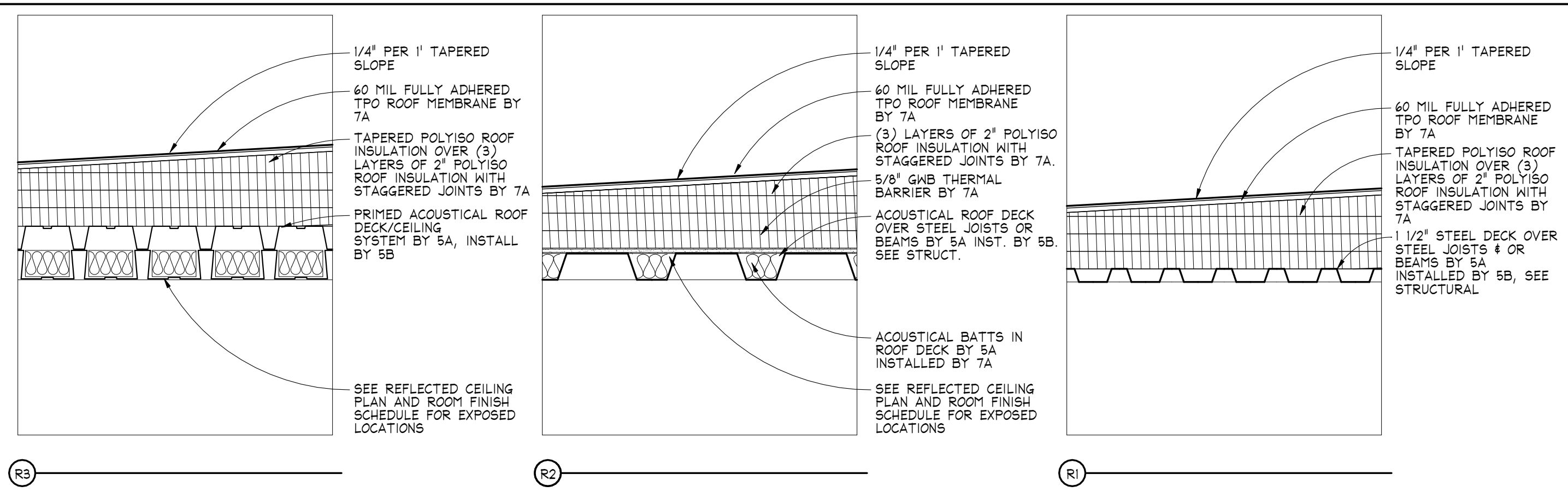
4 MASONRY WALL CTRL. JOINT

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

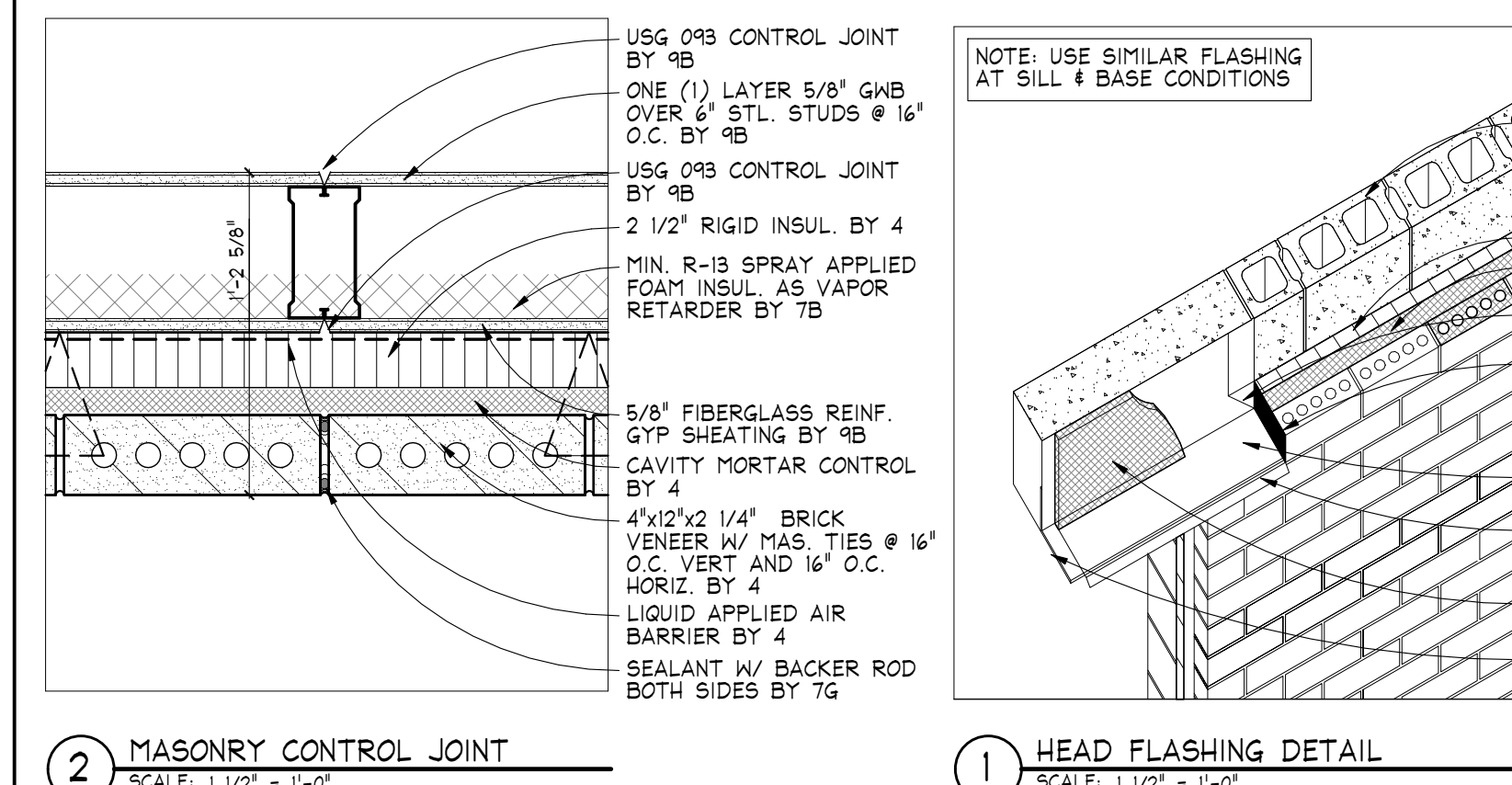
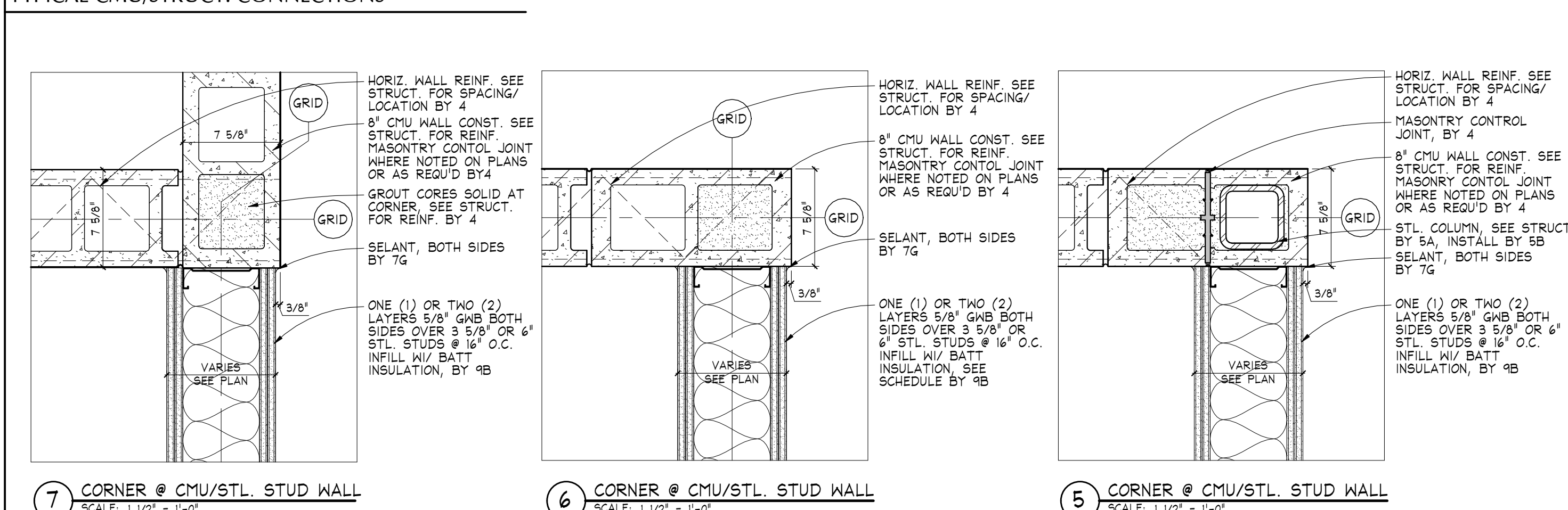
3 MASONRY WALL CTRL. JOINT

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

TYPICAL ROOF ASSEMBLIES



TYPICAL CMU/STRUCT. CONNECTIONS



2 MASONRY WALL CTRL. JOINT

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

1 HEAD FLASHING DETAIL

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

9 MASONRY WALL CTRL. JOINT

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

8 CONTROL JOINT - 1-HR

SCALE: 3" = 1'-0"

7 CORNER @ CMU/STL. STUD WALL

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

6 CORNER @ CMU/STL. STUD WALL

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

5 CORNER @ CMU/STL. STUD WALL

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

Revision Schedule		
Rev. #	Date Issued	Revision Description
1	4/15/2016	ADD #1
2	4/18/2016	ADD #2

BID GROUP I

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Print Name: **Ryan S. Berg**
Signature: **RSB**
Date: 04-07-2016 Registration No. 41686

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SCHOOL
4400 24th Avenue S
Moorhead, MN 56560

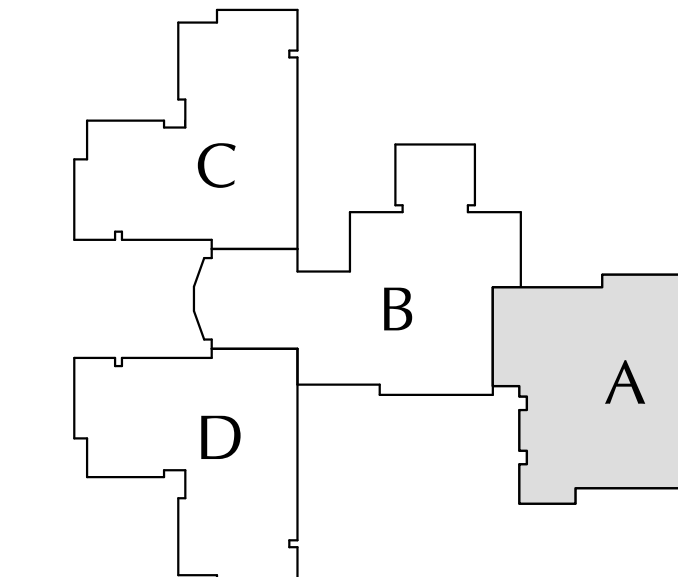
PARTITION TYPES

INTERIOR PARTITIONS

- M4 4" CMU WALL CONSTRUCTION.
- M2 8" CMU WALL CONSTRUCTION.
- M12 12" CMU WALL CONSTRUCTION.
- S1 3 5/8" STL. STUD WALL CONSTRUCTION WITH ONE LAYER GMB ON ONE SIDE.
- S2 3 5/8" STL. STUD WALL CONSTRUCTION WITH ONE LAYER GMB ON ONE SIDE.
- S3 3 5/8" STL. STUD WALL CONSTRUCTION WITH ONE LAYER OF GMB EACH SIDE.
- S4 3 5/8" STL. STUD WALL CONSTRUCTION WITH TWO LAYERS OF GMB ON EACH SIDE.
- S5 6" STL. STUD WALL CONSTRUCTION WITH ONE LAYER GMB ON EACH SIDE.
- S6 6" STL. STUD WALL CONSTRUCTION WITH TWO LAYERS OF GMB ON EACH SIDE.

EXTERIOR WALLS

- E1 PREFINISHED CORRUGATED METAL PANEL WITH 8" CMU WALL CONSTRUCTION.
- E3 PREFINISHED COMPOSITE METAL PANEL WITH 8" CMU WALL CONSTRUCTION.
- E4 4"X12"X1/4" FACE BRICK VENEER WITH 12" CMU WALL CONSTRUCTION.
- E5 PREFINISHED CORRUGATED METAL PANEL WITH 12" CMU WALL CONSTRUCTION.
- E6 4"X12"X1/4" FACE BRICK VENEER WITH 6" STL. STUD WALL CONSTRUCTION.
- E7 PREFINISHED CORRUGATED METAL PANEL OVER 6" STL. STUD FRAMING BACKUP.
- E8 PREFINISHED COMPOSITE METAL PANEL WITH 4" STL. STUD WALL CONSTRUCTION.
- E9 4"X12"X1/4" FACE BRICK VENEER BOTH SIDES OVER 7 5/8" CMU BACKUP.
- E10 Nanohill SL45 Glass Wall System
- EXX 5/8" X 3 5/8" X 3 5/8" FACEBRICK OVER 7 5/8" CMU BACKUP



KEY PLAN
NOT TO SCALE

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Print Name: Brian C. Berg
Signature: *Brian C. Berg*
Date: 04-07-2016 Registration No. 41686

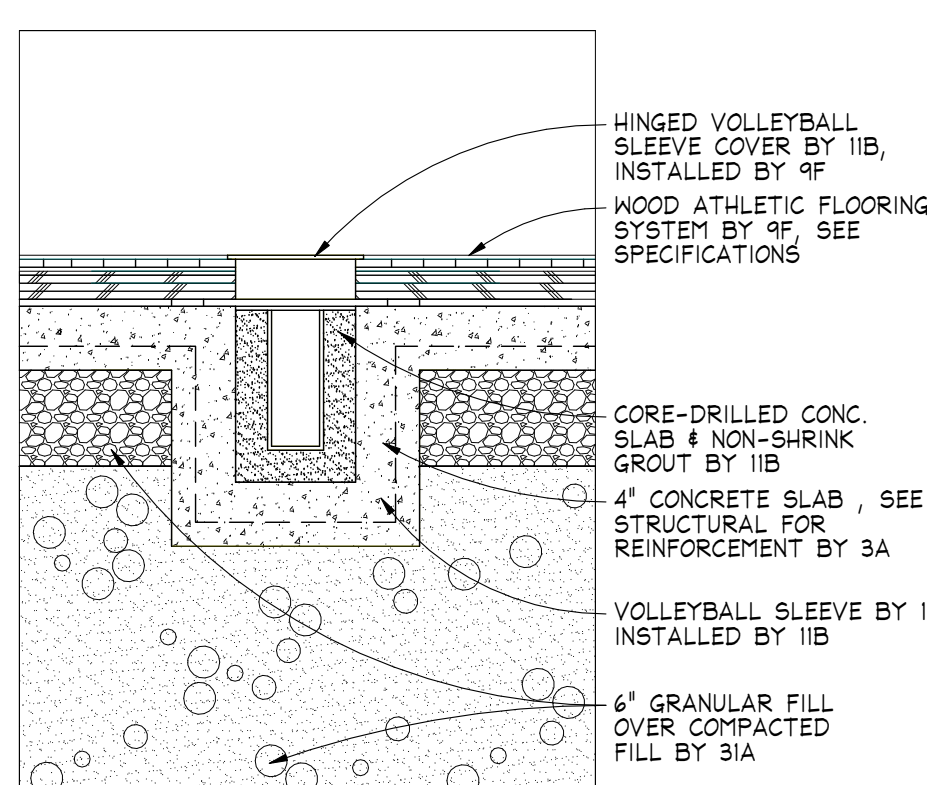
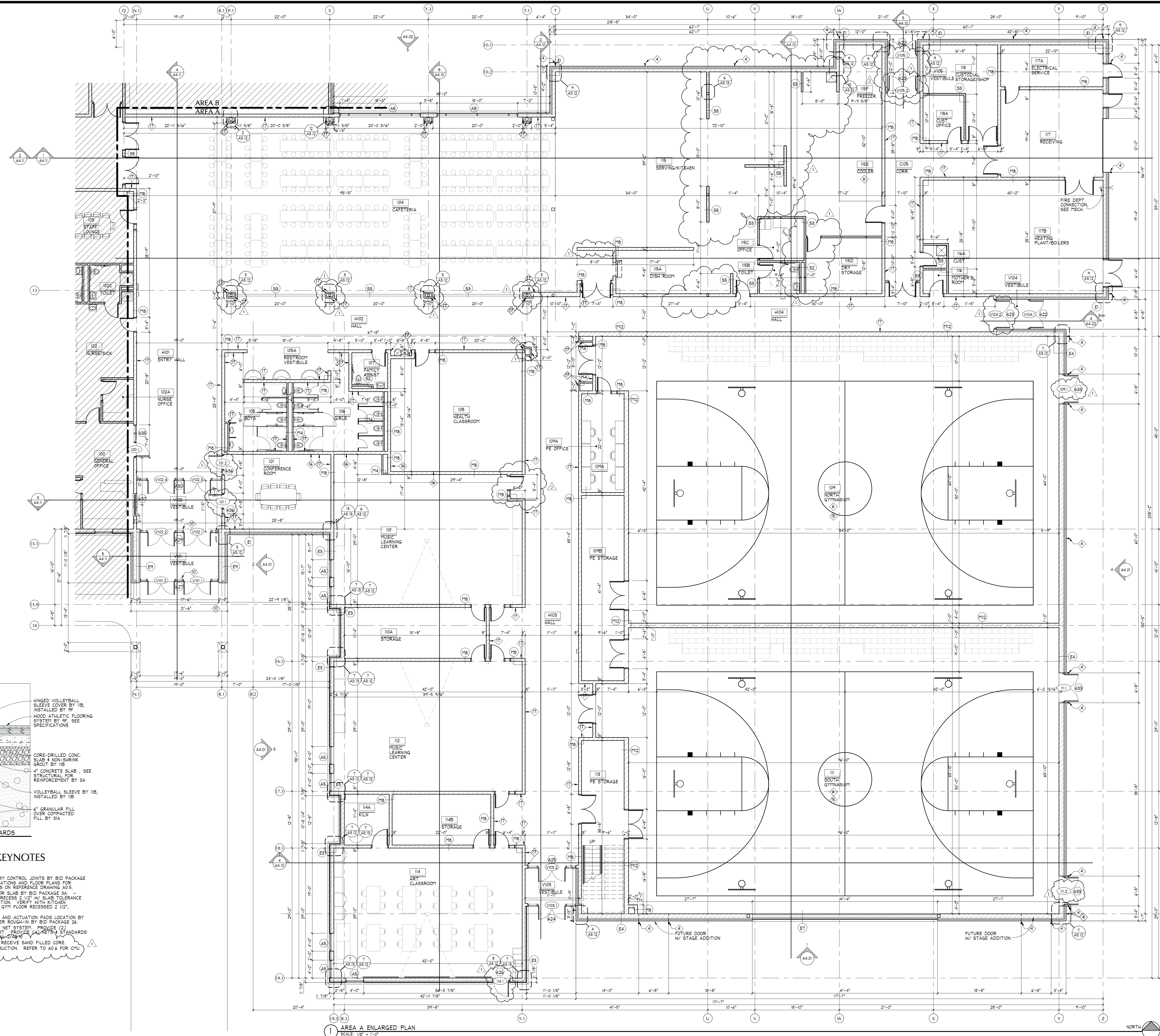


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ENLARGED PLAN - AREA A

Project No.: 15-025
Date: 04-07-2016

A3.10



2 VOLLEYBALL STANDARDS
SCALE: 1/8" = 1'-0"

FLOOR PLAN KEYNOTES

- 4 INDICATES MASONRY CONTROL JOINTS BY BID PACKAGE 4. SEE EXTERIOR ELEVATIONS AND FLOOR PLANS FOR LOCATIONS AND DETAILS ON REFERENCE DRAWING A0.5.
- 6 RECESS CONCRETE FLOOR SLAB BY BID PACKAGE 3A. KITCHEN COOLER AREA RECESS 2 1/2" W/ SLAB TOLERANCE AT 1/8" FT. EACH DIRECTION. VERIFY WITH KITCHEN EQUIPMENT SCHEDULE. GYM FLOOR RECESSED 2 1/2". VERIFY.
- 10 POWER ASSISTED DOOR AND ACTUATION PADS LOCATION BY BID PACKAGE 6E. POWER ROUGH-IN BY BID PACKAGE 26.
- 15 VOLLEYBALL SLEEVES & NET SYSTEM. PROVIDE (2) SLEEVES AT EACH COURT. PROVIDE (4) NETS & STANDARDS TO MATCH REF TO DETAIL A0.6.
- 16 CMU CONSTRUCTION TO RECEIVE SAND FILLED CORE. BURNISHED CMU CONSTRUCTION. REFER TO A0.6 FOR CMU WALL PATTERN TYPES.
- 17

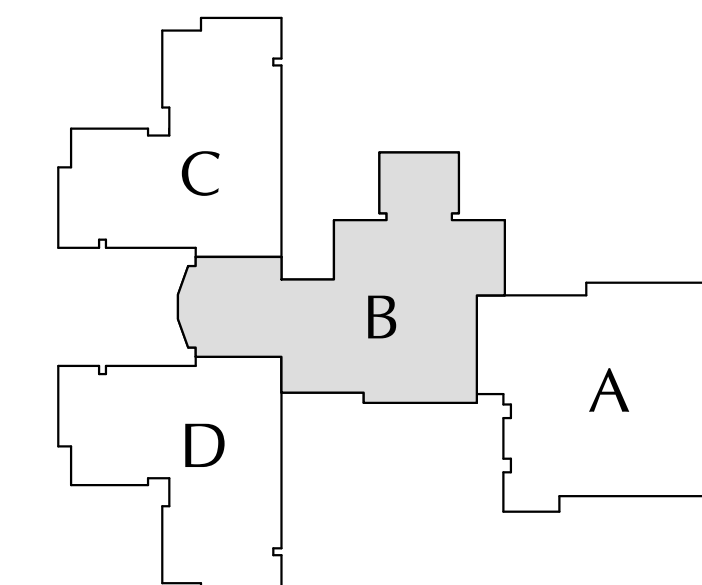
1 AREA A ENLARGED PLAN
SCALE: 1/8" = 1'-0"

INTERIOR PARTITIONS

- M4 4" CMU WALL CONSTRUCTION.
- M6 8" CMU WALL CONSTRUCTION.
- M12 12" CMU WALL CONSTRUCTION.
- S1 3/8" STL. STUD WALL CONSTRUCTION WITH ONE LAYER GMB ON ONE SIDE.
- S2 3/8" STL. STUD WALL CONSTRUCTION WITH ONE LAYER GMB ON ONE SIDE.
- S3 3/8" STL. STUD WALL CONSTRUCTION WITH ONE LAYER GMB ON EACH SIDE.
- S4 3/8" STL. STUD WALL CONSTRUCTION WITH TWO LAYERS OF GMB ON EACH SIDE.
- S5 6" STL. STUD WALL CONSTRUCTION WITH ONE LAYER GMB ON EACH SIDE.
- S6 6" STL. STUD WALL CONSTRUCTION WITH TWO LAYERS OF GMB ON EACH SIDE.

EXTERIOR WALLS

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- E9 4"x12"x1/4" FACE BRICK VENEER BOTH SIDES OVER 7/8" CMU BACKUP.
- E10 Nanakali SL45 Glass Wall System
- EXX 5/8" X 3/8" X 3/8" X 3/8" FACEBRICK OVER 7/8" CMU BACKUP.



KEY PLAN
NOT TO SCALE

Revision Schedule		
Rev. #	Date Issued	Revision Description
1	4/15/2016	ADD #1
2	4/18/2016	ADD #2

BID GROUP I

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Print Name: Brian C. Berg
Signature: *Brian C. Berg*
Date: 04-07-2016 Registration No. 41686

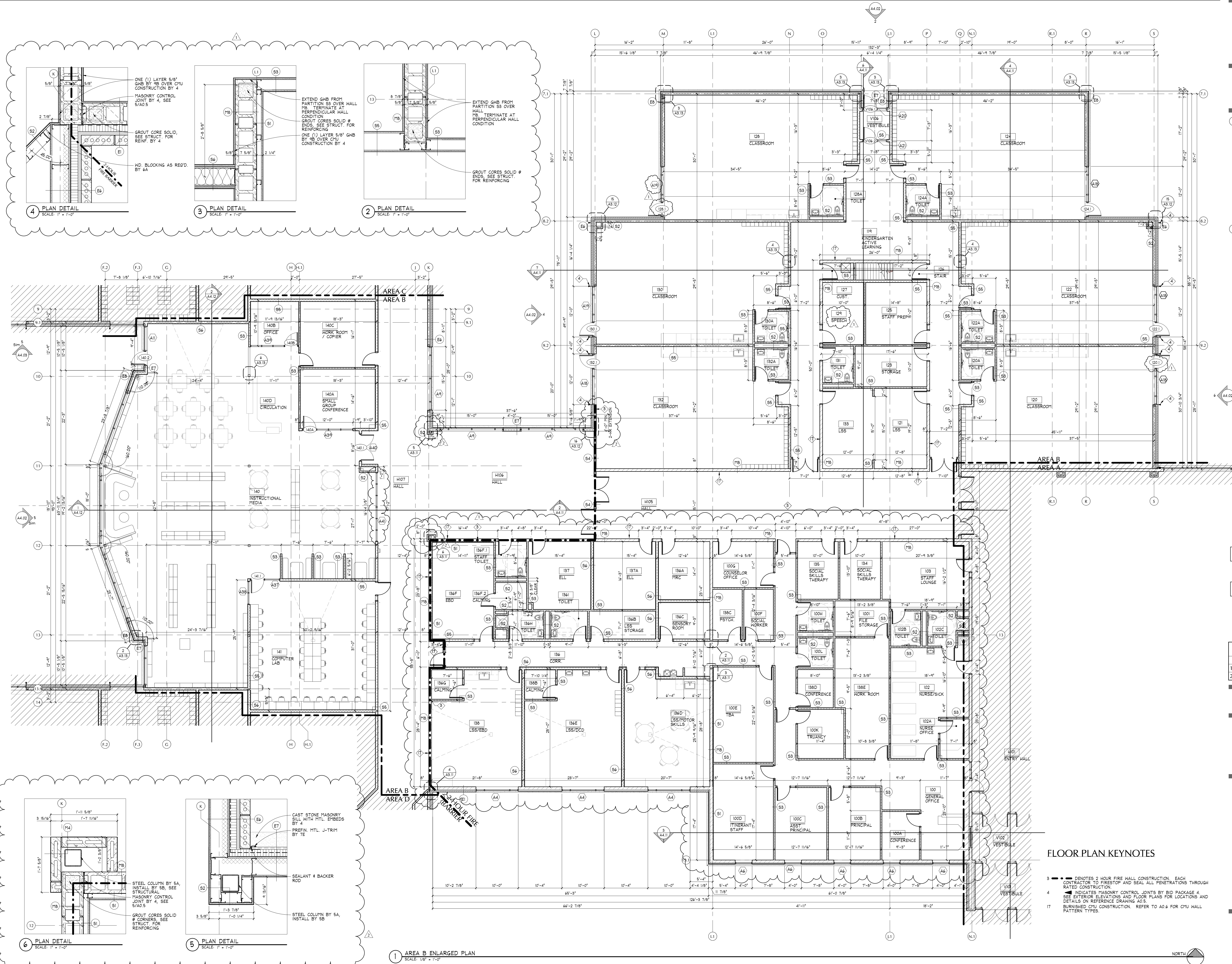


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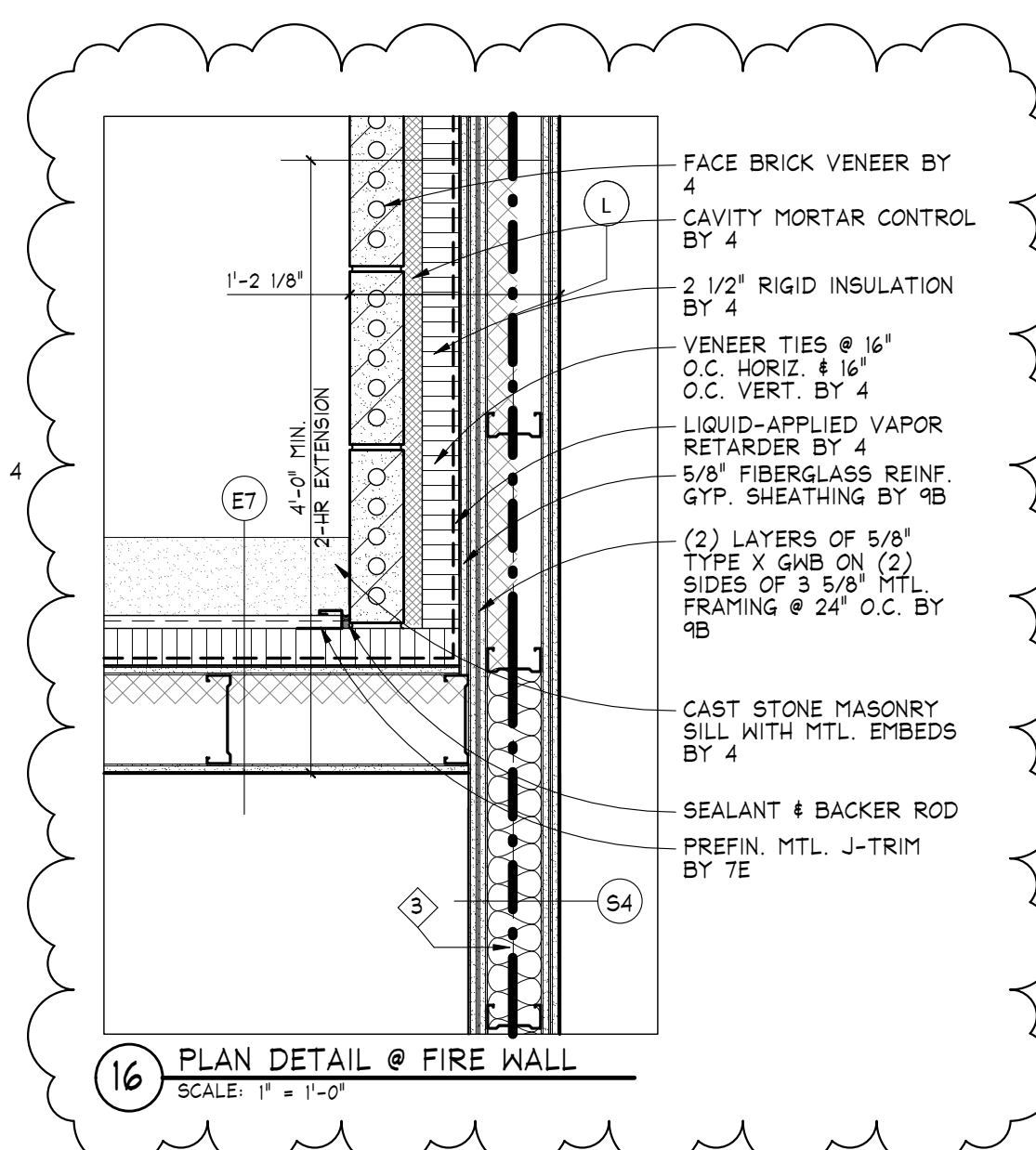
ENLARGED PLAN - AREA B

Project No.: 15-025
Date: 04-07-2016

A3.11



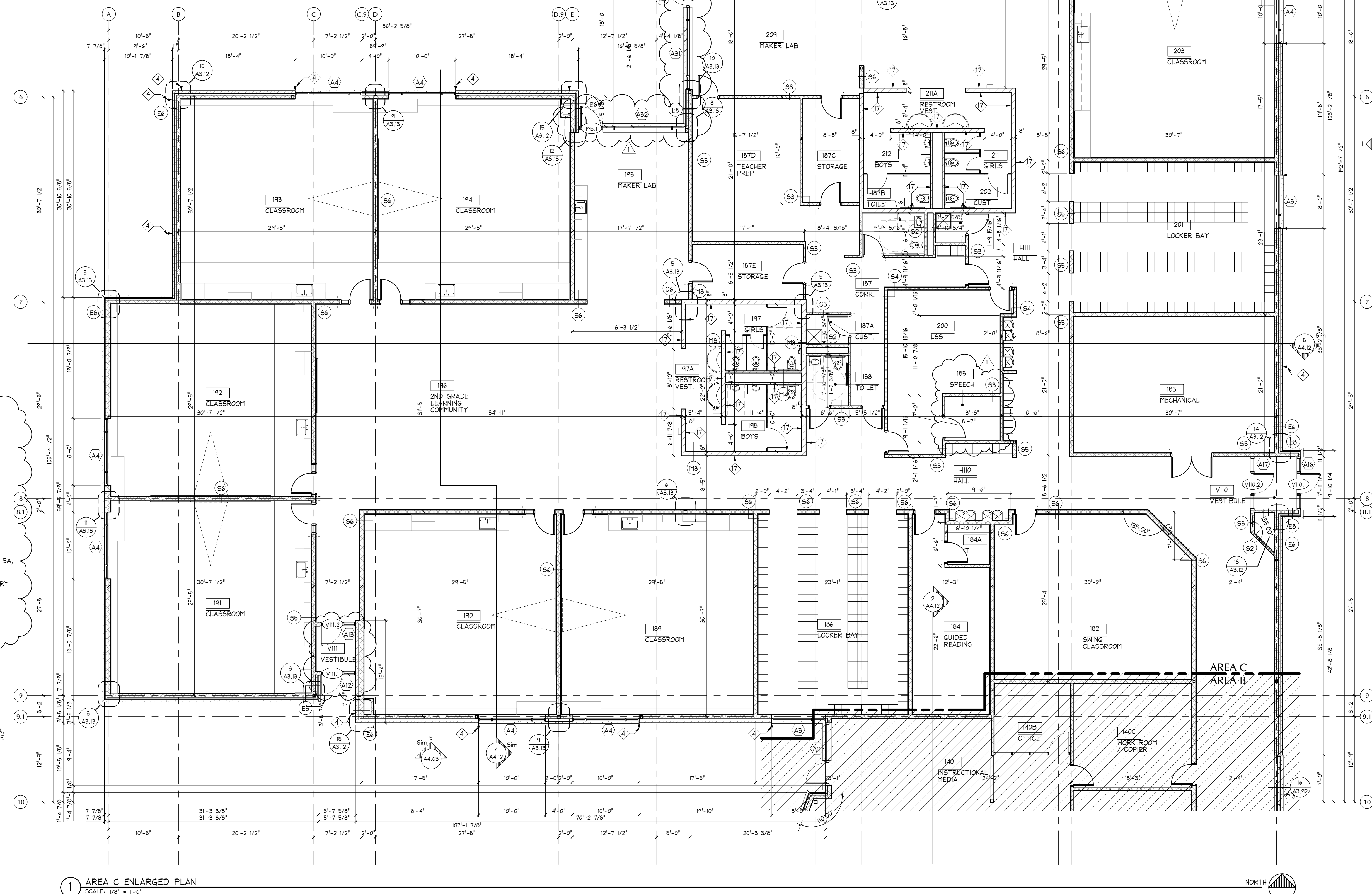
-
M4 4' CMU WALL CONSTRUCTION.
M8 8' CMU WALL CONSTRUCTION.
M12 12' CMU WALL CONSTRUCTION.
S1 3 5/8" STL. STUD WALL CONSTRUCTION
WITH ONE LAYER GNB ON ONE SIDE.
S2 3 5/8" STL. STUD WALL CONSTRUCTION
WITH ONE LAYER GNB ON ONE SIDE.
S3 3 5/8" STL. STUD WALL CONSTRUCTION
WITH ONE LAYER OF GNB EACH SIDE.
S4 3 5/8" STL. STUD WALL CONSTRUCTION
WITH TWO LAYERS OF GNB ON EACH SIDE.
S5 6" STL. STUD WALL CONSTRUCTION WITH
ONE LAYER GNB ON EACH SIDE.
S6 6" STL. STUD WALL CONSTRUCTION WITH
TWO LAYERS OF GNB ON EACH SIDE.

[illegible]

3 DENOTES 2 HOUR FIRE WALL
CONSTRUCTION. EACH CONTRACTOR TO
FIRESTOP AND SEAL ALL PENETRATIONS
THROUGH RATED CONSTRUCTION.

4 INDICATES MASONRY CONTROL JOINTS
BID PACKAGE 4. SEE EXTERIOR ELEVATION
AND FLOOR PLANS FOR LOCATIONS AND DE
ON REFERENCE DRAWING A0.5.

17 BURNISHED CMU CONSTRUCTION. REFER TO
FOR CMU WALL PATTERN TYPES.



Revision Schedule		
Rev. #	Date Issued	Revision Description
1	4/15/2016	ADD #1
2	4/18/2016	ADD #2

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Print Name: Brian C. Berg

Signature: BCB

Date: 04-07-2016 Registration No. 4168

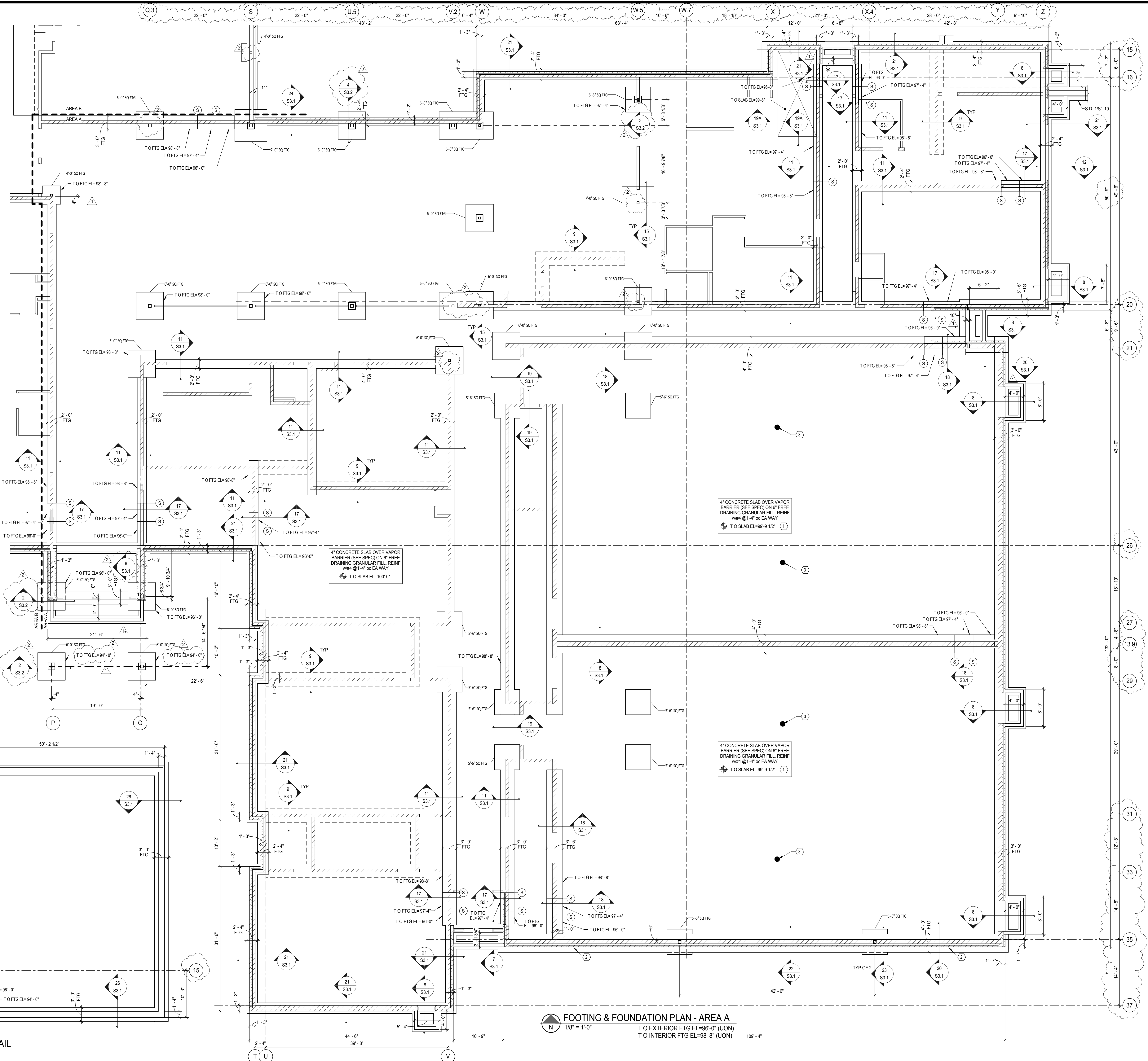


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ENLARGED PLAN - AREA C

- KEYNOTES:
1. VERIFY ELEVATION OF GYM SLAB w/SPORT FLOORING MANUFACTURER.
 2. FUTURE DOOR OPENING - SEE ARCH.
 3. CONTRACTOR TO VERIFY LOCATION AND SIZE OF VOLLEYBALL STANDARD INSERTS. CONTRACTOR TO COORDINATE w/VOLLEYBALL STANDARD SUPPLIER.
 4. RECESSED FLOOR SLAB FOR FREEZER. COORDINATE w/FREEZER MANUFACTURER DETAILS FOR RECESSED SLAB ELEVATION & EXTENTS. S.D. 194S3.1

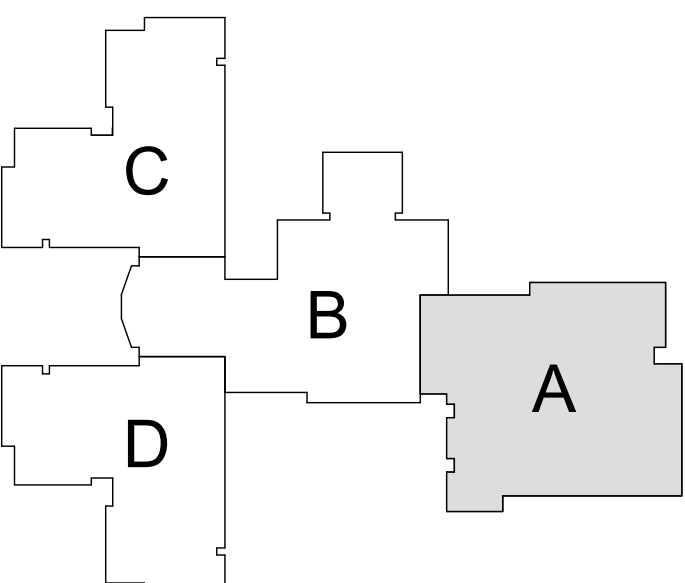
FOOTING SCHEDULE				
SIZE	DEPTH	TRANS	LONG	REMARKS
1'-0" CONT FTG	1'-0"	#4 @8'-0"	(2) #5	
2'-0" CONT FTG	1'-0"	#4 @8'-0"	(2) #5	
2'-4" CONT FTG	1'-0"	#4 @8'-0"	(3) #5	
3'-0" CONT FTG	1'-0"	#5 @7'-4"	(3) #5	
3'-6" CONT FTG	1'-0"	#5 @7'-4"	(4) #5	
4'-0" CONT FTG	1'-2"	#5 @7'-0"	(4) #5	
3'-6" SQ FTG	1'-0"	#5 @2'-8"	(4) #5	
4'-0" SQ FTG	1'-0"	(5) #5	(5) #5	
4'-6" SQ FTG	1'-0"	(5) #5	(5) #5	
5'-0" SQ FTG	1'-0"	(6) #5	(6) #5	
6'-0" SQ FTG	1'-2"	(7) #5	(7) #5	
7'-0" SQ FTG	1'-6"	(8) #5	(8) #5	



1 SCREEN WALL DETAIL
S1.10 1/8" = 1'-0"

- SHEET NOTES:
1. VERIFY ALL DIMENSIONS w/ARCHITECTURAL DWGS, WHICH SHALL BE GOVERNING.
 2. SEE SHEET S0.1 FOR GENERAL NOTES.
 3. (S) STEPPED FOOTING - S.D. 15S3.1.
 4. COORDINATE SIZE, NUMBER & LOCATIONS OF MECHANICAL & ELECTRICAL PENETRATIONS THRU CONC SLAB & FDN.
 5. SEE CONCRETE NOTE #13 ON S0.1 FOR CJ/CJ LAYOUT INFORMATION.
 6. GROUT ALL CMU SOLID BELOW GRADE.
 7. CONTRACTOR TO COORDINATE NUMBER & ELEVATIONS OF ALL FLOOR DRAIN W/MECHANICAL. SLOPE SLABS TO DRAIN.

04/14/2016 ADDENDUM #1
04/18/2016 ADDENDUM #2



BID GROUP 1

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
Signature: [Signature]
Date: 04/18/2016 Registration No. 41855



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Moorhead, MN 56500

FOOTING & FOUNDATION PLAN - AREA A

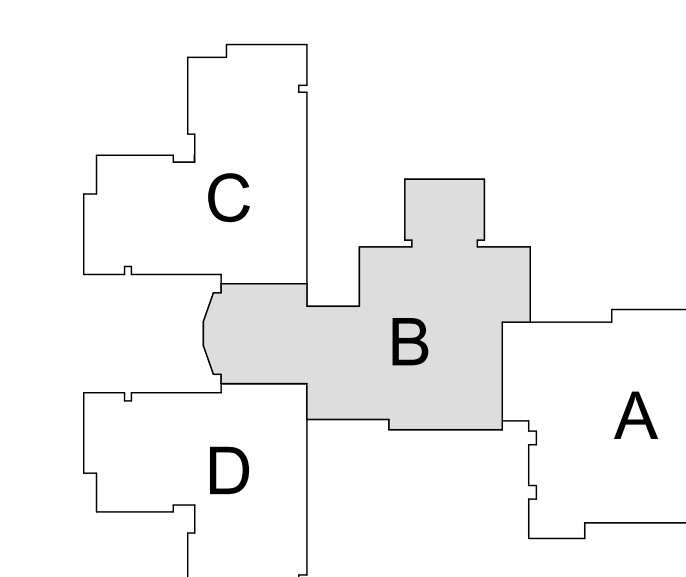
Project No.: 15-032
Date: 04/18/2016

S1.10

- SHEET NOTES:**
1. VERIFY ALL DIMENSIONS w/ ARCHITECTURAL DWGS. WHICH SHALL BE GOVERNING.
 2. SEE SHEET S0.1 FOR GENERAL NOTES.
 3. (S) STEPPED FOOTING - S.D. 1/53.1.
 4. COORDINATE SIZE, NUMBER & LOCATIONS OF MECHANICAL & ELECTRICAL PENETRATIONS THRU CONC SLAB & FDN.
 5. SEE CONCRETE NOTE #13 ON S0.1 FOR CJ/CJ LAYOUT INFORMATION.
 6. GROUT ALL CMU SOLID BELOW GRADE.
 7. CONTRACTOR TO COORDINATE NUMBER & ELEVATIONS OF ALL FLOOR DRAINS w/ MECHANICAL. SLOPE SLABS TO DRAIN.

- KEYNOTES:**
- (1) DROP FOOTING ELEVATION FOR MECHANICAL. SEE MECHANICAL FOR NUMBER, SIZE, ELEVATION AND LOCATION OF MECHANICAL LINES.

04/14/2016 ADDENDUM #1
04/18/2016 ADDENDUM #2



KEY PLAN
NOT TO SCALE

BID GROUP 1

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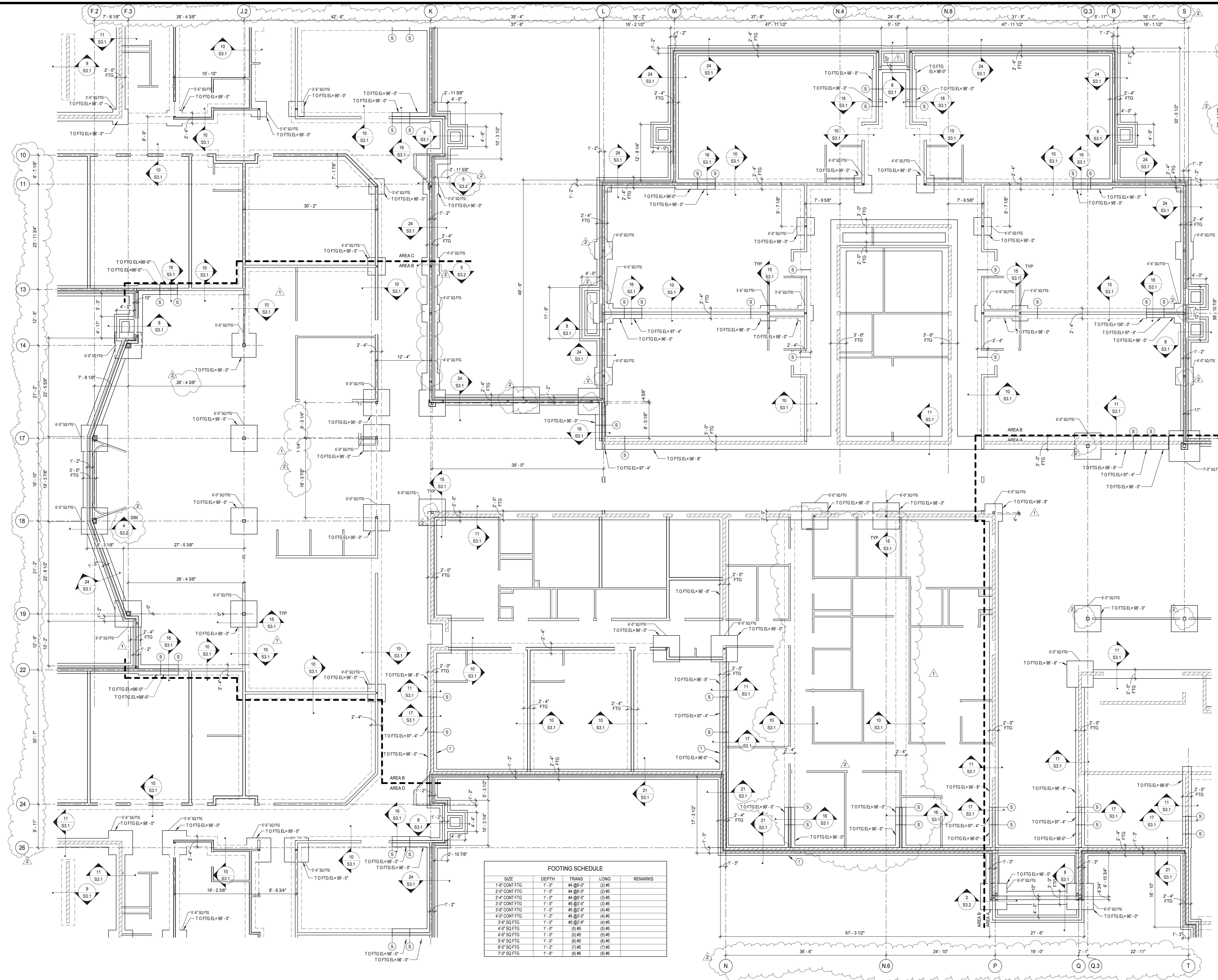
Print Name: Eric A Greiff
Signature:
Date: 04/18/2016 Registration No. 41855

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4400 24th Avenue S
Moorhead, MN 56500

FOOTING & FOUNDATION PLAN - AREA B

Project No.: 15-032
Date: 04/18/2016

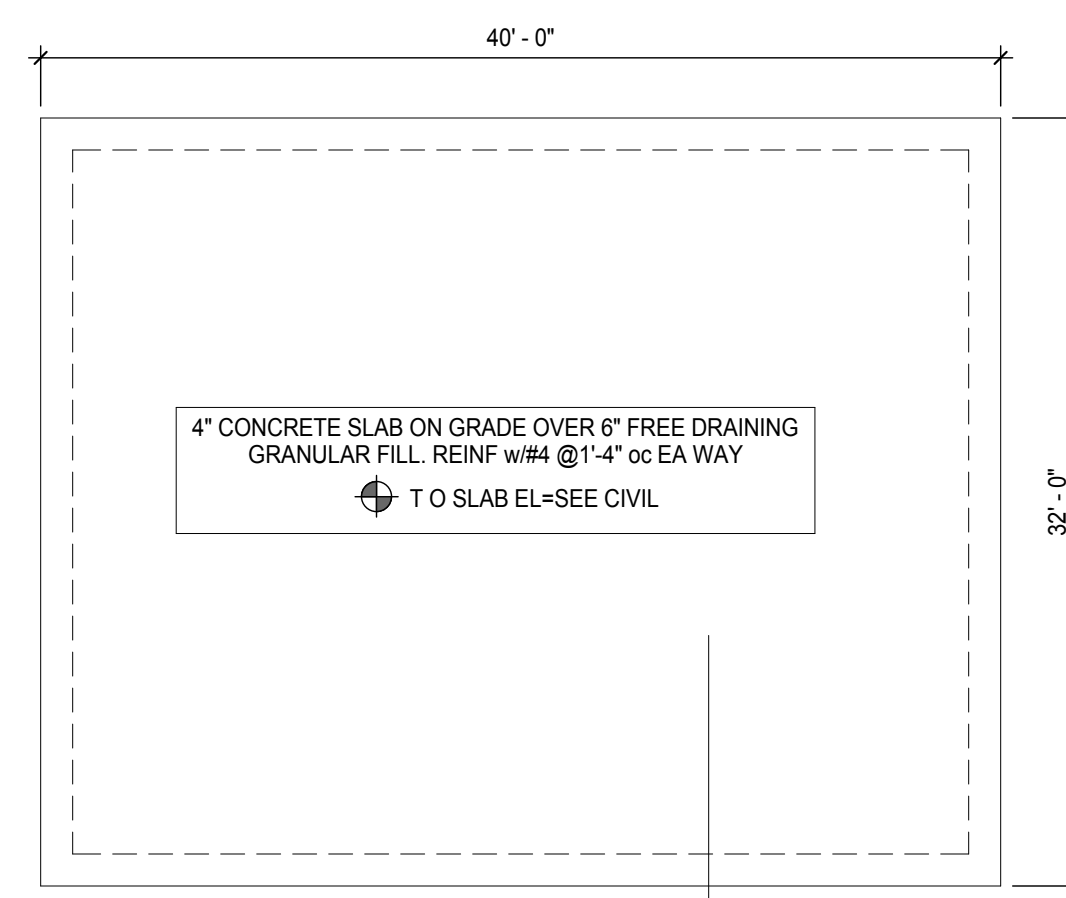
S1.11



FOOTING & FOUNDATION PLAN - AREA B
1/8" = 1'-0"
T O FTG EL = 96'-0" (UON)

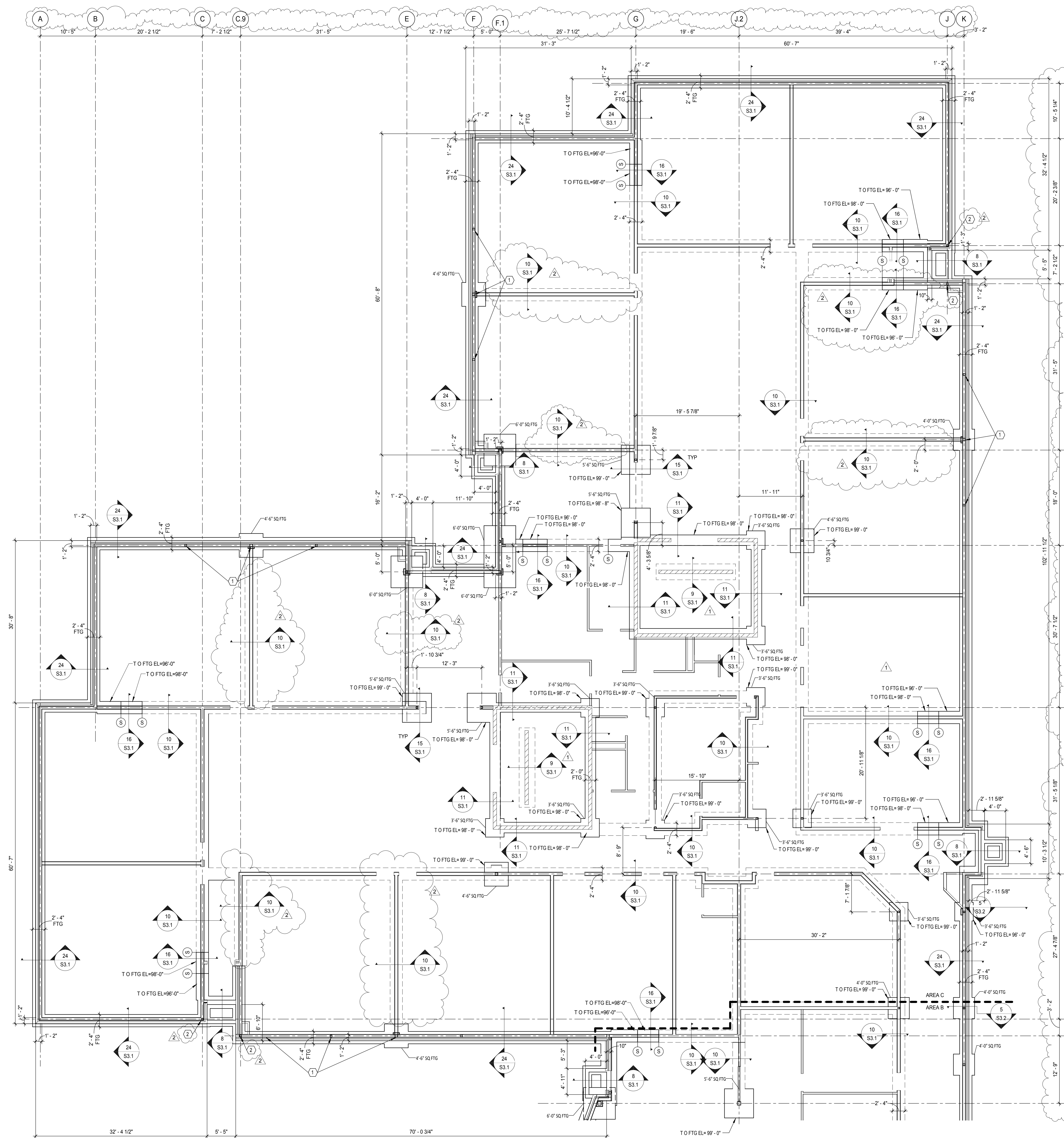
KEYNOTES:
1. S.D. 14/S3.1 FOR HEADER COLUMN BASE PL DETAIL.
2. S.D. 6/S3.2 FOR BASE PLUPER DETAIL.
3. S.D. 7/S3.2 FOR BASE PLUPER DETAIL.

SIZE	DEPTH	TRANS	LONG	REMARKS
1'-0" CONT FTG	1'-0"	#4 @8'-0"	(2) #5	
2'-0" CONT FTG	1'-0"	#4 @8'-0"	(2) #5	
2'-4" CONT FTG	1'-0"	#4 @8'-0"	(3) #5	
3'-0" CONT FTG	1'-0"	#5 @3'-4"	(3) #5	
3'-6" CONT FTG	1'-0"	#5 @2'-8"	(4) #5	
4'-0" CONT FTG	1'-2"	#5 @2'-0"	(4) #5	
3'-6" SQ FTG	1'-0"	#5 @2'-8"	(4) #5	
4'-0" SQ FTG	1'-0"	(5) #5	(5) #5	
4'-6" SQ FTG	1'-0"	(5) #5	(5) #5	
5'-0" SQ FTG	1'-0"	(6) #5	(6) #5	
6'-0" SQ FTG	1'-2"	(7) #5	(7) #5	
7'-0" SQ FTG	1'-6"	(8) #5	(8) #5	



1. OUT BUILDING FOUNDATION IS NOT PROTECTED FROM FROST.
2. VERIFY DIMENSION w/ARCHITECTURE & SITE LOCATION WITH CIVIL.

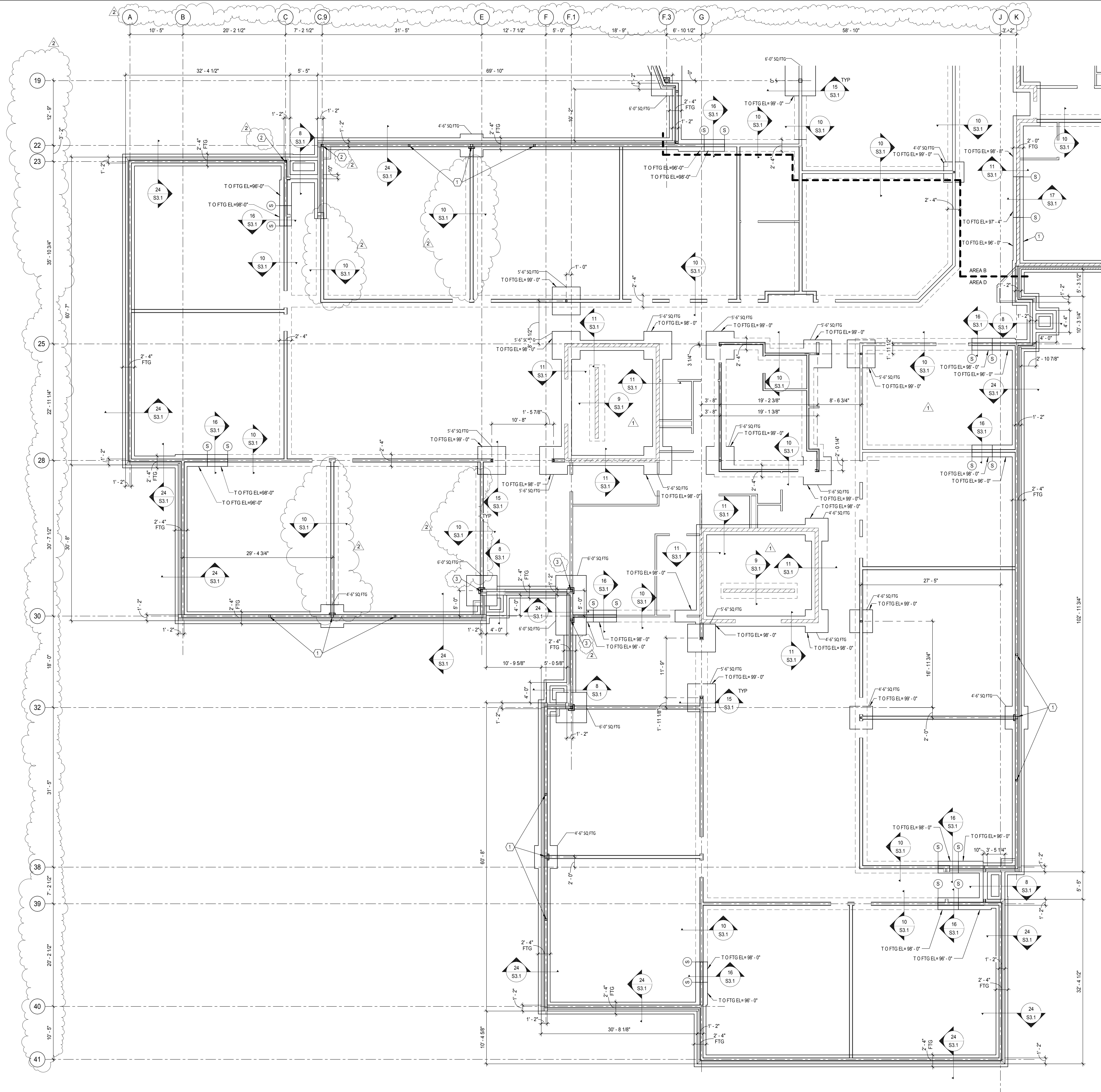
NOTE:
1. OUT BUILDING FOUNDATION IS NOT PROTECTED FROM FROST.
2. VERIFY DIMENSION w/ARCHITECTURE & SITE LOCATION WITH CIVIL.



FOOTING & FOUNDATION PLAN - AREA C
1/8" = 1'-0"
T O EXTERIOR FTG EL= 96'-0" (UON)
T O INTERIOR FTG EL= 98'-8" (UON)

- KEYNOTES:
1. S.D. 14S3.1 FOR HEADER COLUMN BASE PL DETAIL.
 2. S.D. 6S3.2 FOR BASE PLIER DETAIL.
 3. S.D. 7S3.2 FOR BASE PLIER DETAIL.

FOOTING SCHEDULE				
SIZE	DEPTH	TRANS	LONG	REMARKS
1'-8" CONT FTG	1'-0"	#4 @6'-0"	(2) #5	
2'-0" CONT FTG	1'-0"	#4 @6'-0"	(2) #5	
2'-4" CONT FTG	1'-0"	#4 @6'-0"	(3) #5	
3'-0" CONT FTG	1'-0"	#5 @3'-4"	(3) #5	
3'-6" CONT FTG	1'-0"	#5 @2'-8"	(4) #5	
4'-0" CONT FTG	1'-2"	#5 @2'-0"	(4) #5	
3'-6" SQ FTG	1'-0"	#5 @2'-4"	(4) #5	
4'-0" SQ FTG	1'-0"	(5) #5	(5) #5	
4'-6" SQ FTG	1'-0"	(5) #5	(5) #5	
5'-0" SQ FTG	1'-0"	(6) #5	(6) #5	
6'-0" SQ FTG	1'-2"	(7) #5	(7) #5	
7'-0" SQ FTG	1'-6"	(8) #5	(8) #5	



FOOTING & FOUNDATION PLAN - AREA D
1/8" = 1'-0"
T.O. EXTERIOR FTG EL= 96'-0" (UON)
T.O. INTERIOR FTG EL= 98'-8" (UON)

ZERR BERG
ARCHITECTS

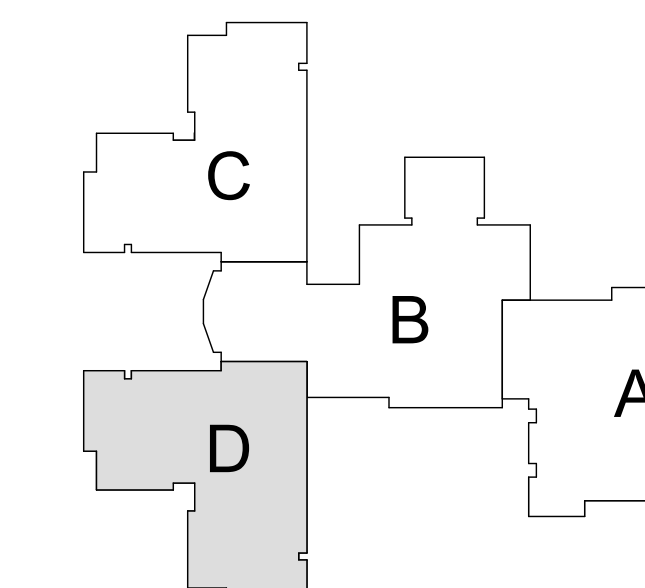
510 NORTH 4TH AVENUE, FARGO, ND 58102-4851
701.280.0167 FAX 701.280.9021

gehrtz
CONSTRUCTION SERVICES

HEYER ENGINEERING
Structural Consultant
1020 36th Street SW Fargo, ND 58103
(P) 701.280.0949 (F) 701.280.9686

- SHEET NOTES:
1. VERIFY ALL DIMENSIONS w/ARCHITECTURAL DWGS, WHICH SHALL BE GOVERNING.
 2. SEE SHEET S0.1 FOR GENERAL NOTES.
 3. (S) STEPPED FOOTING - S.D. 1S3.1.
 4. COORDINATE SIZE, NUMBER & LOCATIONS OF MECHANICAL & ELECTRICAL PENETRATIONS THRU CONC SLAB & FDN.
 5. SEE CONCRETE NOTE #13 ON S0.1 FOR CJ/CJJ LAYOUT INFORMATION.
 6. GROUT ALL CMU SOLID BELOW GRADE.
 7. CONTRACTOR TO COORDINATE NUMBER & ELEVATIONS OF ALL FLOOR DRAINS w/MECHANICAL. SLOPE SLABS TO DRAIN.

04/14/2016 ADDENDUM #1
04/18/2016 ADDENDUM #2



KEY PLAN
NOT TO SCALE

BID GROUP 1

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
Signature: [Signature]
Date: 04/18/2016 Registration No. 41855

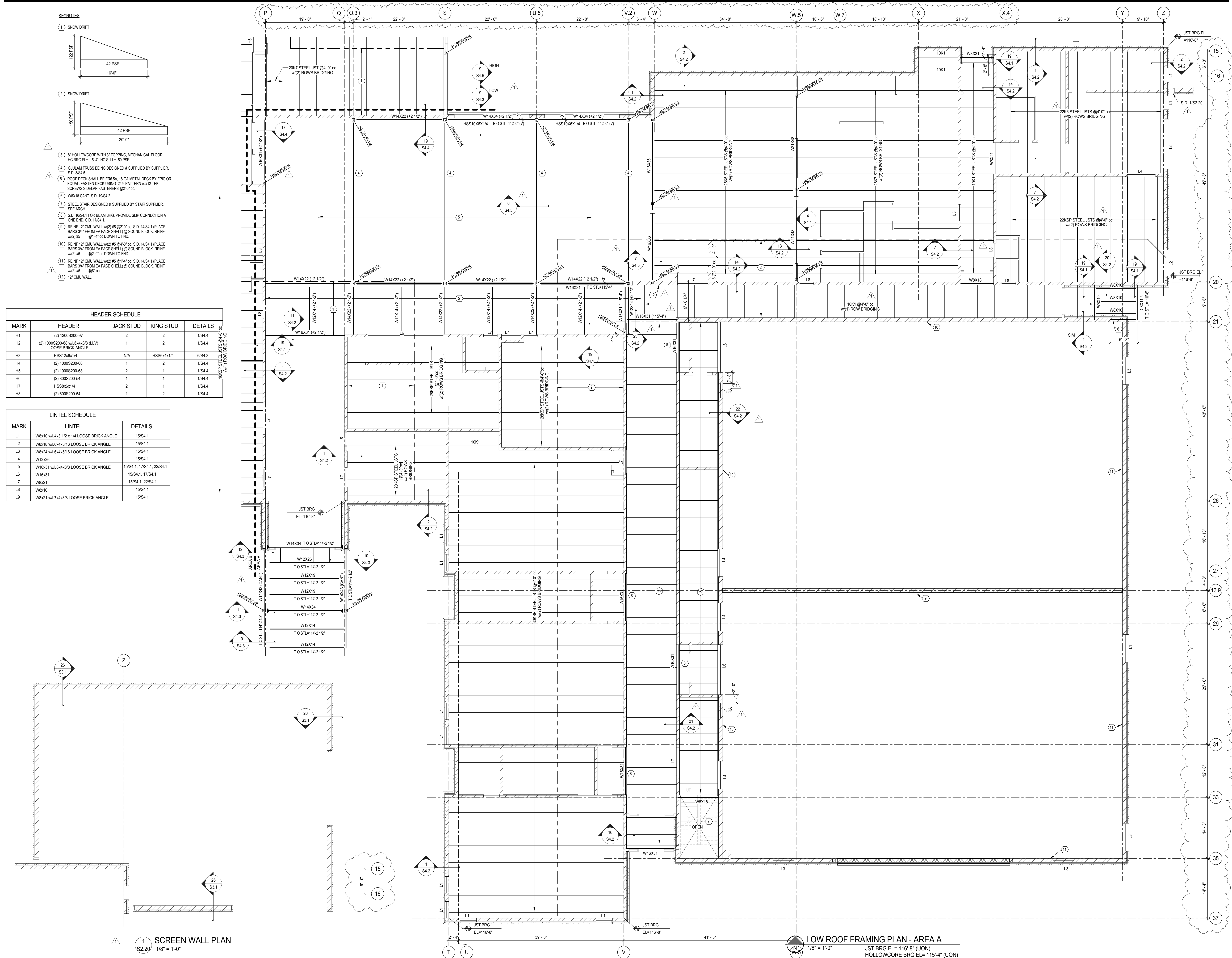


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Moorhead, MN 56500

FOOTING & FOUNDATION PLAN - AREA D

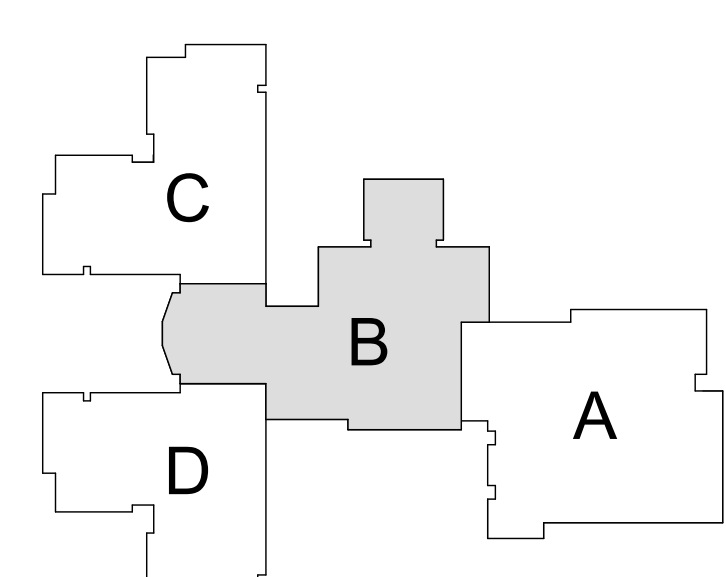
Project No.: 15-032
Date: 04/18/2016

S1.13



- SHEETS NOTES:**
1. VERIFY ALL DIMENSIONS w/ARCH DWGS, WHICH SHALL BE GOVERNING.
 2. ALL ROOF DECK (UON) SHALL BE 1 1/2" TYPE 'B', 22 GA METAL DECK BY VULCRAFT OR EQUAL. FASTEN DECK USING 3/8" PATTERN w/12 TEK SCREWS. USE (4) #10 TEK SCREWS. USE (4) #10 TEK SCREWS SIDE LAP FASTENERS PER SPAN.
 3. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
 4. REINF ALL EXTERIOR CMU WALLS w/1" #5 @2'-6" oc (UON) CENTER IN CELL. REINF ALL INTERIOR CMU WALLS w/1" #5 @4'-0" oc (CENTER IN CELL).
 5. MASON TO COORDINATE LOCATION OF ACoustical Block TO AVOID SOLID CORES AT JOIST BRG LOCATIONS IN GYM. SEE ARCH.
 6. VERIFY LOCATIONS OF ROOF TOP MECHANICAL UNITS & OTHER ROOF TOP OPENINGS w/MECHANICAL & ARCHITECTURAL. S.D. XBOX FOR FRAMING.
 7. SEE ARCHITECTURAL DWGS FOR SOUND BLOCK LOCATIONS. NOTE (UON) REINF REQUIREMENT ON THIS PAGE AT SOUND BLOCK LOCATIONS.
 8. CONTRACTOR TO VERIFY REQUIRED HEIGHTS OF LINTELS FOR MECHANICAL PENETRATIONS w/MECHANICAL CONTRACTOR.
 9. ALL BEARING & EXTERIOR STEEL STUD WALLS SHALL BE 800S200-54 STUD @1'-4" oc OR EQUAL.
 10. S.D. 185A.1 FOR ALL NON-STRUCTURAL NON-BRG LINTELS OR FOR UNLINT SPECIFICALLY NOTED ON PLANS. SEE ARCHITECTURE FOR DOOR & WINDOW SCHEDULES & SEE MECHANICAL FOR DUCT & PIPING PENETRATIONS.
 11. ALL ROOF JOISTS TO BE DESIGNED FOR A NET UPLIFT OF 13 PSF.

04/14/2016 ADDENDUM #1
04/18/2016 ADDENDUM #2



KEY PLAN
NOT TO SCALE

BID GROUP 1

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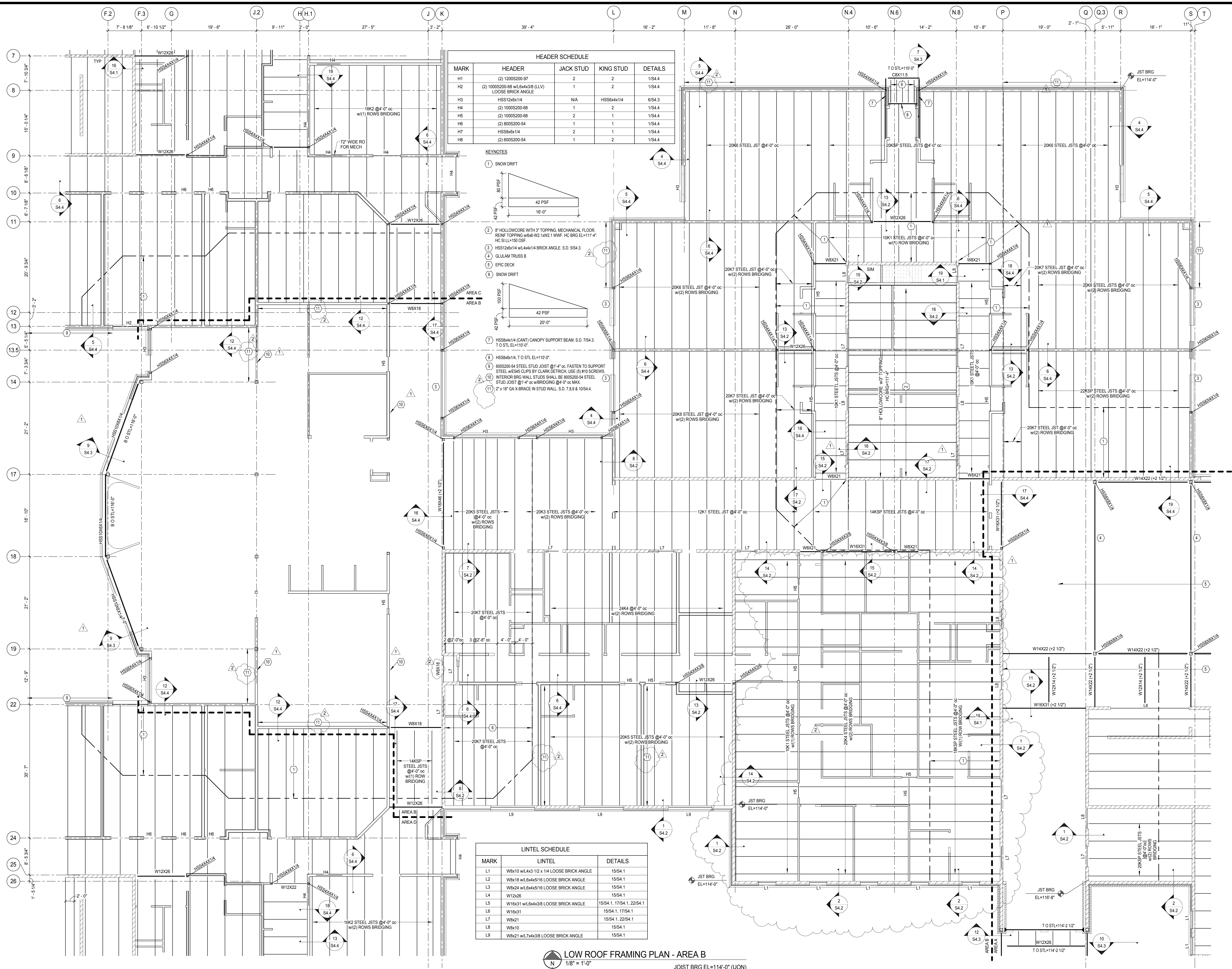
Print Name: Eric A Greiff
Signature:
Date: 04/18/2016 Registration No. 41855



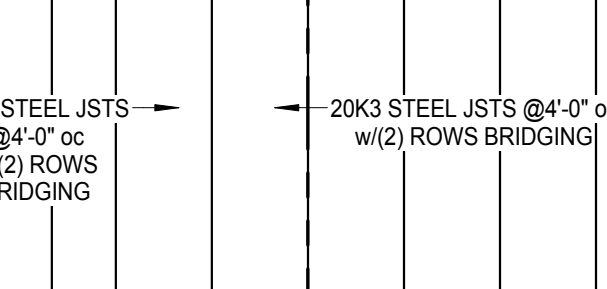
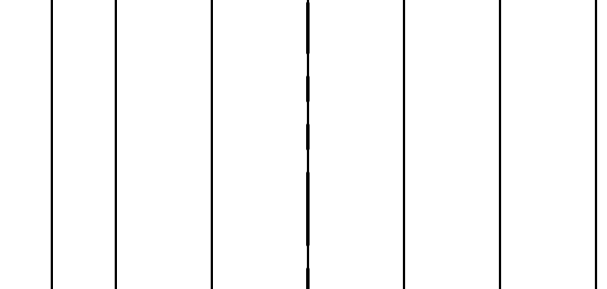
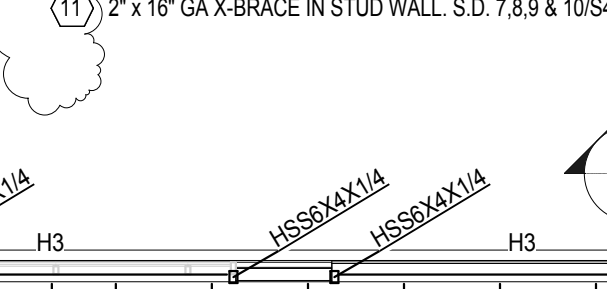
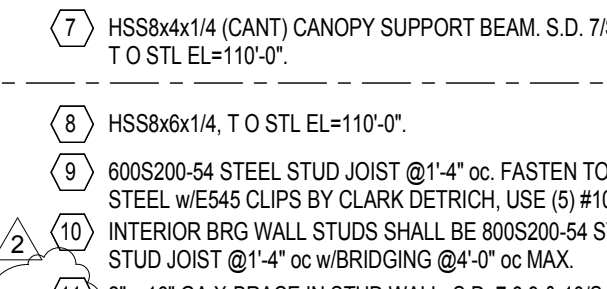
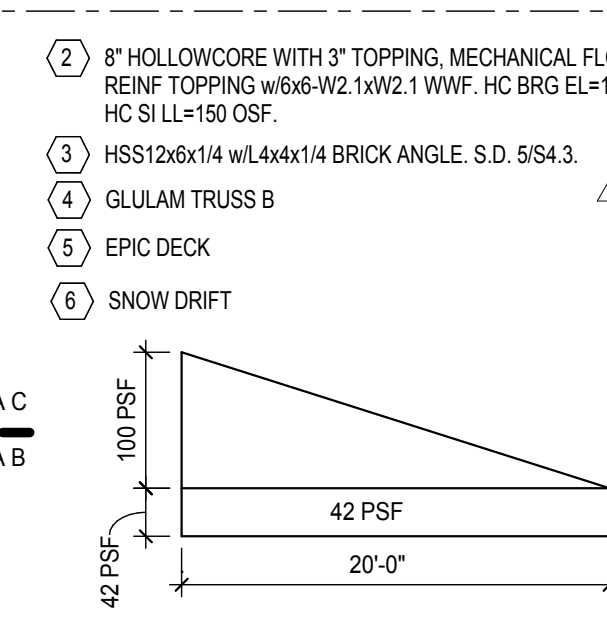
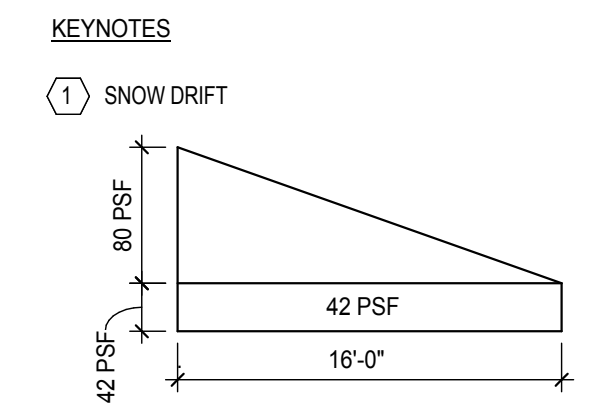
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NEW ELEMENTARY SCHOOL
4400 24th Avenue S
Moorhead, MN 56500

LOW ROOF FRAMING PLAN - AREA B

Project No.: 15-032
Date: 04/18/2016 **S2.21**



MARK	HEADER	JACK STUD	KING STUD	DETAILS
H1	(2) 1200S200-97	2	2	1/5/4.4
H2	(2) 1000S200-68 w/1.6x4x3/8 (LLV) LOOSE BRICK ANGLE	1	2	1/5/4.4
H3	HSS12x6x1/4	N/A	HSS6x4x1/4	6/5/4.3
H4	(2) 1000S200-68	1	2	1/5/4.4
H5	(2) 1000S200-68	2	1	1/5/4.4
H6	(2) 800S200-54	1	1	1/5/4.4
H7	HSS8x6x1/4	2	1	1/5/4.4
H8	(2) 800S200-54	1	2	1/5/4.4

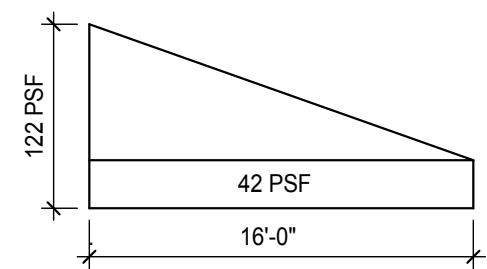


MARK	LINTEL	DETAILS
L1	W8x10 w/1.6x3 1/2 x 1/4 LOOSE BRICK ANGLE	15/5/4.1
L2	W8x16 w/1.6x4x5/16 LOOSE BRICK ANGLE	15/5/4.1
L3	W8x24 w/1.6x4x5/16 LOOSE BRICK ANGLE	15/5/4.1
L4	W12x26	15/5/4.1
L5	W16x31 w/1.6x4x3/8 LOOSE BRICK ANGLE	15/5/4.1, 17/5/4.1, 22/5/4.1
L6	W16x31	15/5/4.1, 17/5/4.1
L7	W8x21	15/5/4.1, 22/5/4.1
L8	W8x10	15/5/4.1
L9	W8x21 w/1.7x4x3/8 LOOSE BRICK ANGLE	15/5/4.1

LOW ROOF FRAMING PLAN - AREA B
1/8" = 1'-0"
JOIST BRG EL=114'-0" (UON)

KEYNOTES

1 SNOW DRIFT



2 HSS12x6x1/4 w/1/4x1/4 BRICK ANGLE S.D. 554.3

3 HSS8x4x1/4 (CANT) CANOPY SUPPORT BEAM S.D. 754.3

4 T O STL EL=110'-0"

5 HSS8x6x1/4, T O STL EL=110'-0"

6 600S200-54 STEEL STUD JOIST @1'-4" oc FASTEN TO SUPPORT

STEEL w/E545 CLIPS BY CLARK DETRICH, USE (5) #10 SCREWS

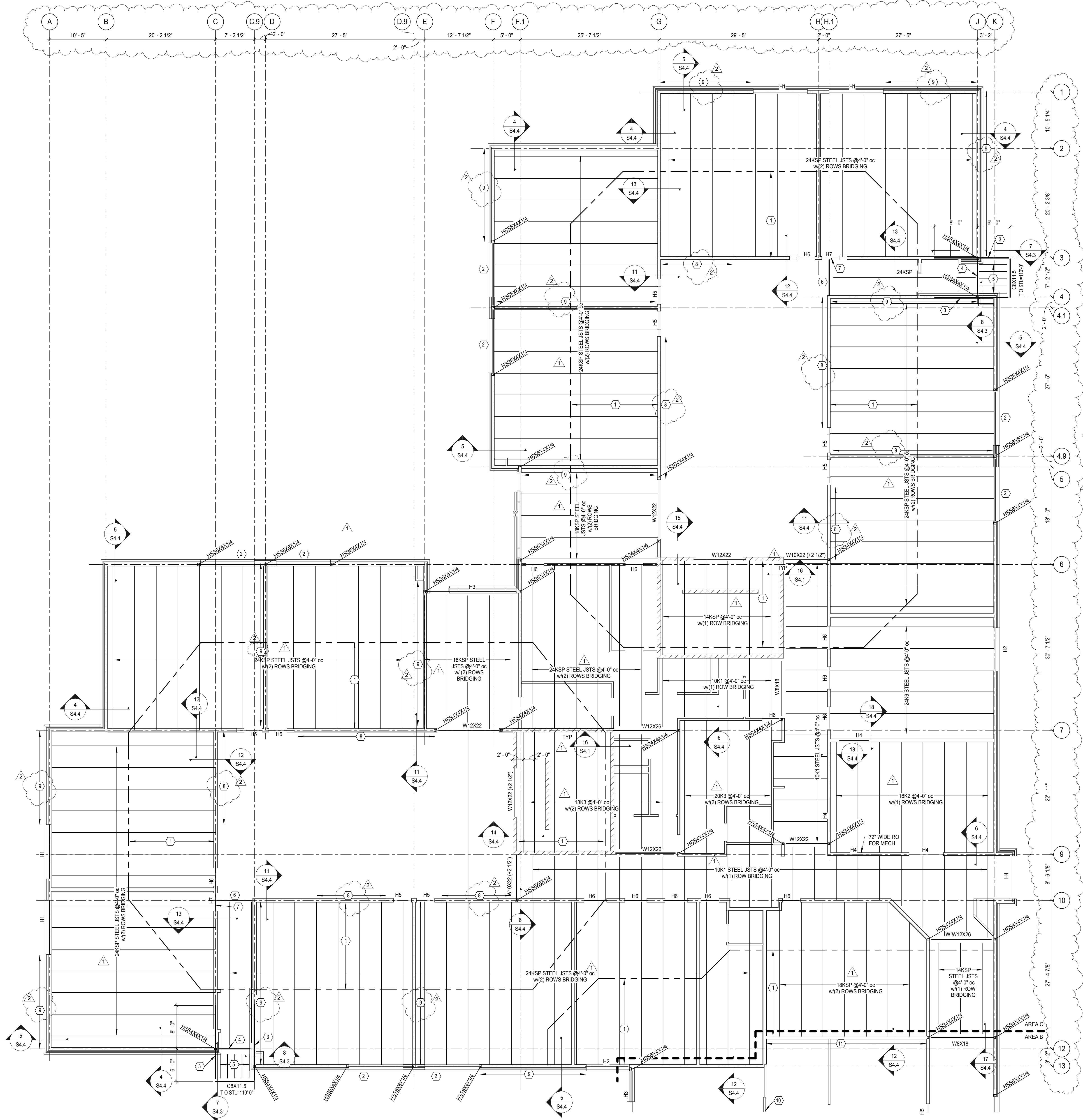
7 HSS8x6x1/4, T O STL EL=114'-0"

8 3" x 10" GA.X-BRACE IN STUD WALL S.D. 7.8.9 & 10S4.4

9 2" x 10" GA.X-BRACE IN STUD WALL S.D. 7.8.9 & 10S4.4

HEADER SCHEDULE				
MARK	HEADER	JACK STUD	KING STUD	DETAILS
H1	(2) 1200S200-97	2	2	1/S4.4
H2	(2) 1000S200-68 w/1/6x4x3/8 (LLV) LOOSE BRICK ANGLE	1	2	1/S4.4
H3	HSS12x6x1/4	N/A	HSS6x4x1/4	6/S4.3
H4	(2) 1000S200-68	1	2	1/S4.4
H5	(2) 1000S200-68	2	1	1/S4.4
H6	(2) 800S200-54	1	1	1/S4.4
H7	HSS8x6x1/4	2	1	1/S4.4
H8	(2) 600S200-54	1	2	1/S4.4

LINTEL SCHEDULE		
MARK	LINTEL	DETAILS
L1	W8x10 w/1/4x3 1/2 x 1/4 LOOSE BRICK ANGLE	15/S4.1
L2	W8x18 w/1/6x4x5/16 LOOSE BRICK ANGLE	15/S4.1
L3	W8x24 w/1/6x4x5/16 LOOSE BRICK ANGLE	15/S4.1
L4	W12x26	15/S4.1
L5	W16x31 w/1/6x4x3/8 LOOSE BRICK ANGLE	15/S4.1, 17/S4.1, 22/S4.1
L6	W16x31	15/S4.1, 17/S4.1
L7	W8x21	15/S4.1, 22/S4.1
L8	W8x10	15/S4.1
L9	W8x21 w/1/7x4x3/8 LOOSE BRICK ANGLE	15/S4.1

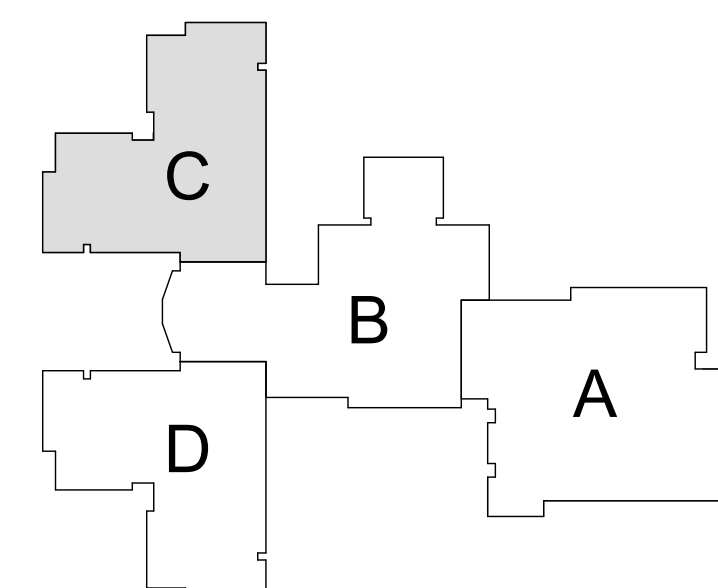


1 LOW ROOF FRAMING PLAN - AREA C
S2.22 1/8" = 1'-0" JOIST BRG EL=114'-0" (UON)

SHEETS NOTES:

1. VERIFY ALL DIMENSIONS w/ARCH DWGS, WHICH SHALL BE GOVERNING.
2. ALL ROOF DECK (UON) SHALL BE 1 1/2" TYPE 'B' '22 GA METAL DECK BY VULCRRAFT OR EQUAL. FASTEN DECK USING 306S PATTERN w/12 TEK SCREWS. USE (4) #10 TEK SCREWS. USE (4) #10 TEK SCREWS SIDE LAP FASTENERS PER SPAN.
3. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
4. REINF ALL CMU WALLS w/1) #5 @4'-0" oc (UON) (CENTER IN CELL).
5. MASON TO COORDINATE LOCATION OF ACOUSTICAL BLOCK TO AVOID SOLID CORES AT JOIST BRG LOCATIONS IN GYM. SEE ARCH.
6. VERIFY LOCATIONS OF ROOF TOP MECHANICAL UNITS & OTHER ROOF TOP OPENINGS w/MECHANICAL & ARCHITECTURAL S.D. X/SXX FOR FRAMING.
7. SEE ARCHITECTURAL DWGS FOR SOUND BLOCK LOCATIONS. NOTE CMU REINF REQUIREMENT ON THIS PAGE AT SOUND BLOCK LOCATIONS.
8. CONTRACTOR TO VERIFY REQUIRED HEIGHTS OF LINTELS FOR MECHANICAL PENETRATIONS w/MECHANICAL ENGINEER.
9. ALL BEARING & EXTERIOR STEEL STUD WALLS SHALL BE 600S200-54 STUD @1'-4" oc OR EQUAL.
10. S.D. 18/S4.1 FOR ALL NON-STRUCTURAL/NON BRG LINTELS OR FOR LINTEL NOT SPECIFICALLY NOTED ON PLANS. SEE ARCHITECTURE FOR DOOR & WINDOW SCHEDULES & SEE MECHANICAL FOR DUCT & PIPING PENETRATIONS.
11. ALL ROOF JOISTS TO BE DESIGNED FOR A NET UPLIFT OF 13 PSF.

04/14/2016 ADDENDUM #1
04/18/2016 ADDENDUM #2



KEY PLAN
NOT TO SCALE

BID GROUP 1

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
Signature:
Date: 04/18/2016 Registration No. 41855



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SCHOOL
4400 24th Avenue S
Moorhead, MN 56500

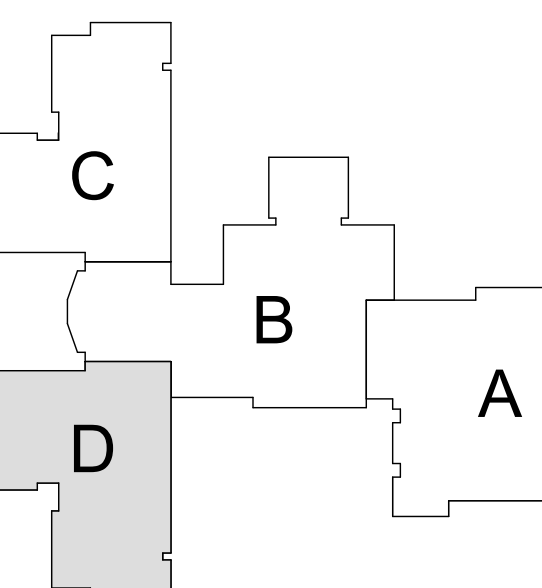
LOW ROOF FRAMING PLAN - AREA C

Project No.: 15-032
Date: 04/18/2016

S2.22

- SHEETS NOTES:**
1. VERIFY ALL DIMENSIONS w/ARCH DWGS, WHICH SHALL BE GOVERNING.
 2. ALL ROOF DECK (UON) SHALL BE 1 1/2" TYPE 'B', 22 GA METAL DECK BY VULCRAFT OR EQUAL. FASTEN DECK USING 305 PATTERN W/1/2" TEK SCREWS. USE (4) #10 TEK SCREWS. USE (4) #10 TEK SCREWS SIDE LAP FASTENERS PER SPAN.
 3. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
 4. REIN. ALL CMU WALLS w/1" #5 @4'-0" oc (UON) (CENTER IN CELL).
 5. MASON TO COORDINATE LOCATION OF ACOUSTICAL BLOCK TO AVOID SOLID CORES AT JOIST BRG LOCATIONS IN GYM, SEE ARCH.
 6. VERIFY LOCATIONS OF ROOF TOP MECHANICAL UNITS & OTHER ROOF TOP OPENINGS w/MECHANICAL & ARCHITECTURAL. S.D. 8 & 9/S4.1 FOR FRAMING.
 7. SEE ARCHITECTURAL DWGS FOR SOUND BLOCK LOCATIONS. NOTE CMU REIN. REQUIREMENT ON THIS PAGE AT SOUND BLOCK LOCATIONS.
 8. CONTRACTOR TO VERIFY REQUIRED HEIGHTS OF LINTELS FOR MECHANICAL PENETRATIONS w/MECHANICAL ENGINEER.
 9. ALL BEARING & EXTERIOR STEEL STUD WALLS SHALL BE 600S200-54 STUD @1'-4" oc OR EQUAL.
 10. S.D. 18/S4.1 FOR ALL NON-STRUCTURAL/NON-BRG LINTELS OR FOR LINTEL NOT SPECIFICALLY NOTED ON PLANS. SEE ARCHITECTURE FOR DOOR & WINDOW SCHEDULES & SEE MECHANICAL FOR DUCT & PIPING PENETRATIONS.
 11. ALL ROOF JOISTS TO BE DESIGNED FOR A NET UPLIFT OF 13 PSF.

04/14/2016 ADDENDUM #1
04/18/2016 ADDENDUM #2



KEY PLAN
NOT TO SCALE

BID GROUP 1

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota

Print Name: Eric A. Greiff
Signature:
Date: 04/18/2016 Registration No. 41855



**MOORHEAD AREA PUBLIC SCHOOLS
NEW ELEMENTARY SCHOOL**
4400 24th Avenue S
Moorhead, MN 56500

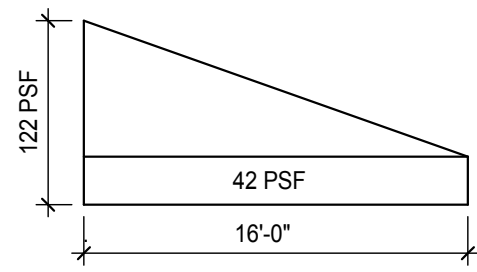
LOW ROOF FRAMING PLAN - AREA D

Project No.: 15-032
Date: 04/18/2016

S2.23

KEYNOTES

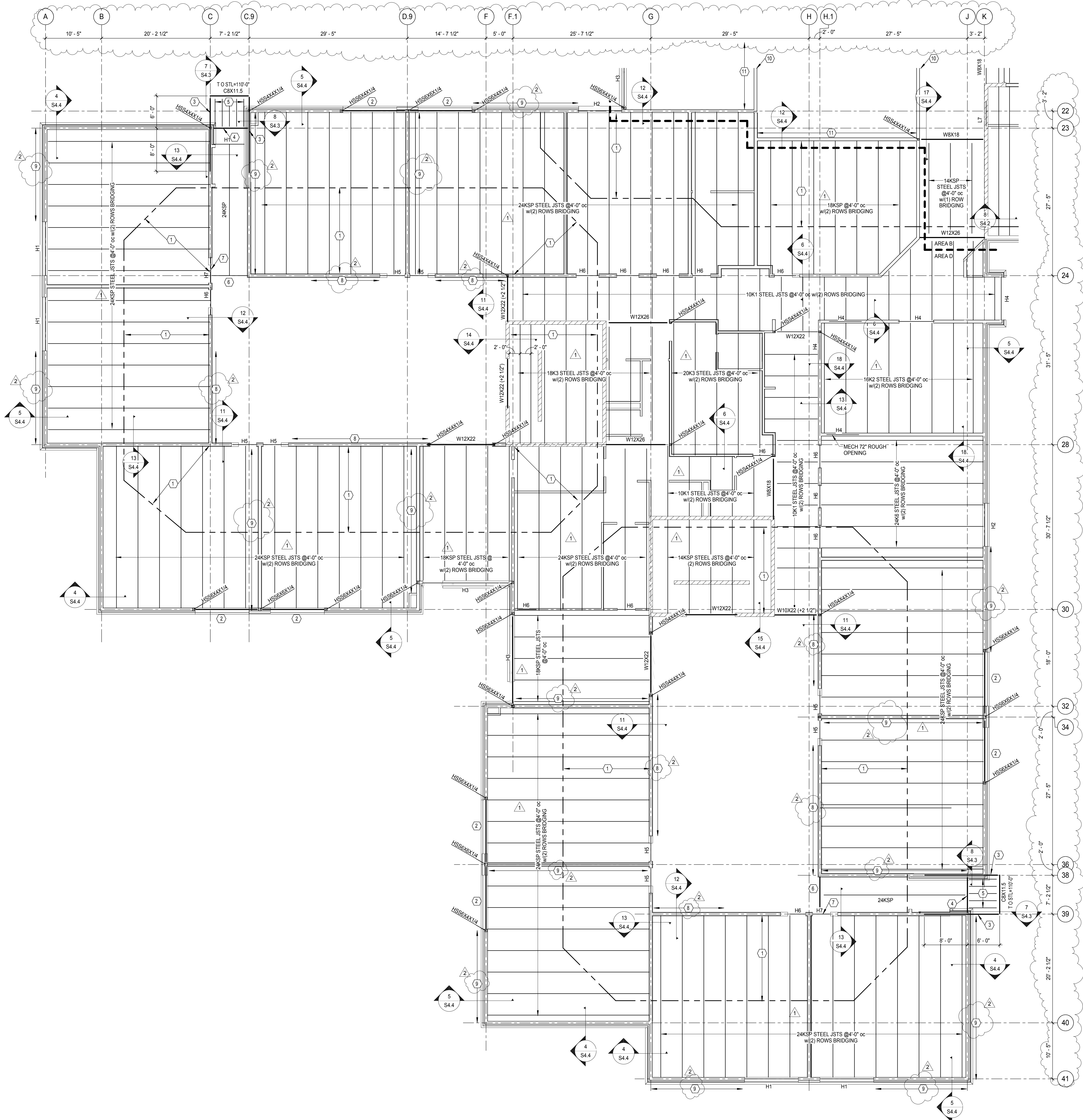
1. SNOW DRIFT



2. HSS12x6x1/4 w/L4x4x1/4 BRICK ANGLE. S.D. 5/S4.3
3. HSS8x4x1/4 (CANT) CANOPY SUPPORT BEAM. S.D. 7/S4.3
T O STL EL+11'-0"
4. HSS8x6x1/4. T O STL EL+11'-0"
5. 600S200-54 STEEL STUD JOIST @1'-4" oc. FASTEN TO SUPPORT STEEL w/E545 CLIPS BY CLARK DETRICH. USE (6) #10 SCREWS.
6. HSS8x6x1/4. T O STL EL+11'-0"
7. HSS30x14. CRIPPLE POST DOWN TO HEADER.
8. 3" x 16" GA X-BRACE IN STUD WALL. S.D. 7.8.9 & 10/S4.4
9. 2" x 16" GA X-BRACE IN STUD WALL. S.D. 7.8.9 & 10/S4.4

MARK	HEADER	JACK STUD	KING STUD	DETAILS
H1	(2) 1200S200-97	2	2	1/S4.4
H2	(2) 1000S200-68 w/L6x4x3/8 (LLV) LOOSE BRICK ANGLE	1	2	1/S4.4
H3	HSS12x6x1/4	N/A	HSS6x4x1/4	6/S4.3
H4	(2) 1000S200-68	1	2	1/S4.4
H5	(2) 1000S200-68	2	1	1/S4.4
H6	(2) 800S200-54	1	1	1/S4.4
H7	HSS8x6x1/4	2	1	1/S4.4
H8	(2) 600S200-54	1	2	1/S4.4

MARK	LINTEL	DETAILS
L1	W8x10 w/L4x3 1/2 x 1/4 LOOSE BRICK ANGLE	15/S4.1
L2	W8x18 w/L8x4x5/16 LOOSE BRICK ANGLE	15/S4.1
L3	W8x24 w/L8x4x5/16 LOOSE BRICK ANGLE	15/S4.1
L4	W12x26	15/S4.1
L5	W16x31 w/L6x4x3/8 LOOSE BRICK ANGLE	15/S4.1, 17/S4.1, 22/S4.1
L6	W16x31	15/S4.1, 17/S4.1
L7	W8x21	15/S4.1, 22/S4.1
L8	W8x10	15/S4.1
L9	W8x21 w/L7x4x3/8 LOOSE BRICK ANGLE	15/S4.1



LOW ROOF FRAMING PLAN - AREA D

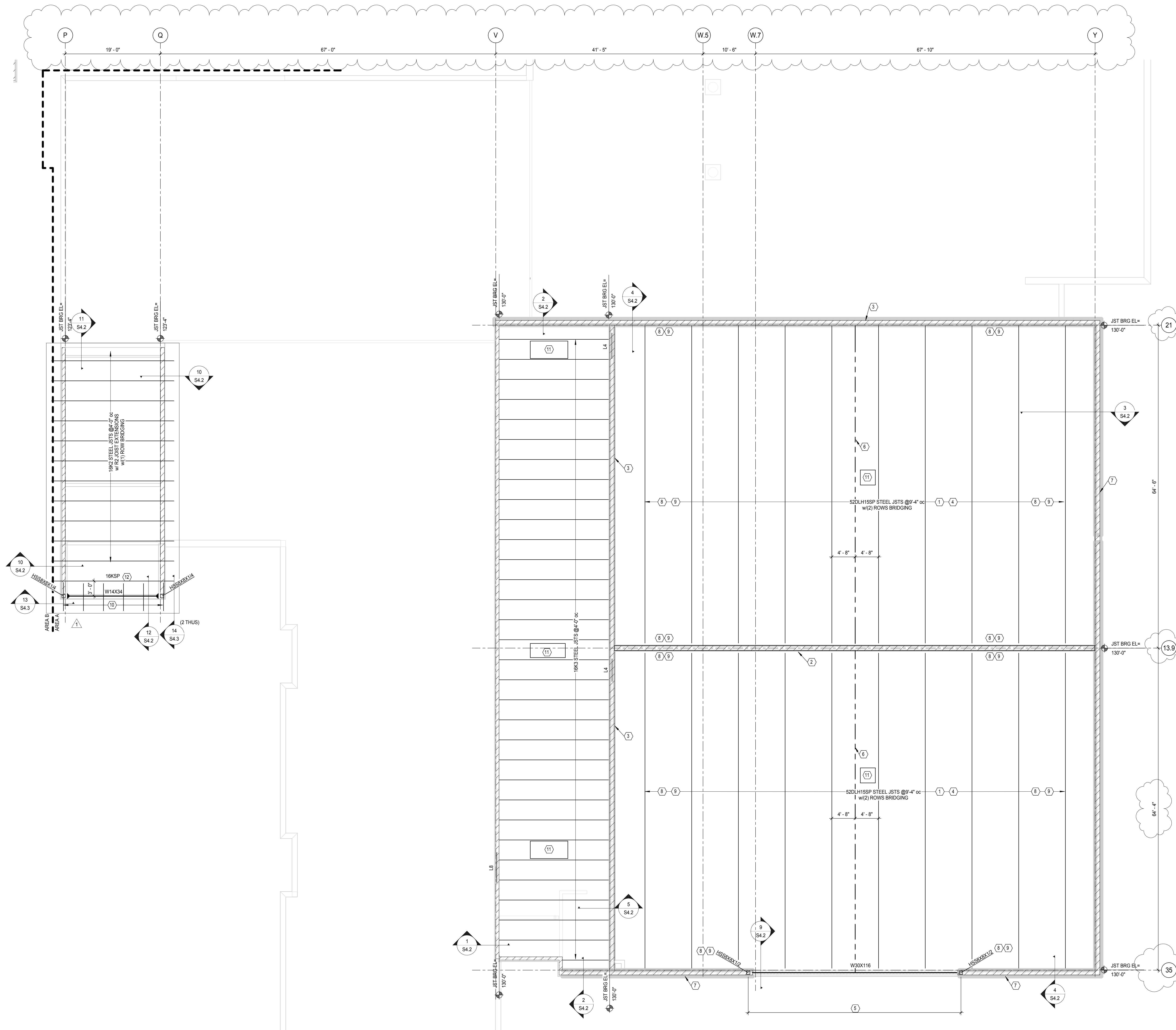
1/8" = 1'-0" JST BG EL = 114'-0" (UON)

KEYNOTES:

- (1) DESIGN LOADS: DL= 25 PSF (INCLUDES JOIST SELF WEIGHT)
SL= 42 PSF
LL= 2000 LB POINT LOAD AT MIDSPAN OF EA TRUSS
DESIGN FOR 12 PSF NET UPLIFT (ASD)
- (2) REINF 12" CMU WALL w/2) #5 @2'-0" oc. S.D. 14S4.1 (PLACE BARS 3/4" FROM EA FACE SHELL) @ SOUND BLOCK. REINF w/2) #5 @1'-4" oc DOWN TO FND.
- (3) REINF 12" CMU WALL w/2) #5 @4'-0" oc. S.D. 14S4.1 (PLACE BARS 3/4" FROM EA FACE SHELL) @ SOUND BLOCK. REINF w/2) #5 @2'-0" oc DOWN TO FND.
- (4) AT EACH ROOF TRUSS BRG LOCATION, REINF 3 CORES w/2) #5 DOWN TO FOUNDATION. DO NOT USE SOUND BLOCK AT JOIST BRG LOCATIONS.
- (5) 1000S250-68 METAL STUDS @1'-4" oc.
- (6) DIVIDER CURTAIN. PROVIDE L4x4x3/8 SUPPORT @4'-0" oc. S.D. 6S4.2. DESIGN LOAD TO ROOF JOIST=30 PLF. VERIFY REQUIRED SPACING AND WEIGHT w/DIVIDER CURTAIN SUPPLIER.
- (7) REINF 12" CMU WALL w/2) #5 @2'-0" oc. S.D. 14S4.1 (PLACE BARS 3/4" FROM EA FACE SHELL) @ SOUND BLOCK. REINF w/2) #5 @8" oc.
- (8) JOIST SUPPLIER TO ADD 1500 LB POINT REACTION AT EACH GOAL SUPPORT LOCATION. VERIFY GOAL WEIGHT w/ GOAL SUPPLIER.
- (9) 3 1/2" DIAMETER O.D. PIPE STANDARD BY GOAL SUPPLIER. CONTRACTOR TO COORDINATE & VERIFY SUPPORT STRUCTURE ATTACHMENT TO ROOF JOISTS.
- (10) HSS2 1/2x2 1/2x1/4 OUTRIGGER @4'-0" oc.
- (11) MECHANICAL OPENING. COORDINATE SIZE & LOCATION w/MECHANICAL CONTRACTOR. S.D. 8S4.1 & 8S4.1.
- (12) JOIST SUPPLIER TO DESIGN JOIST FOR THE FOLLOWING MAX REACTIONS:
DL=70PLF MAX
=0 PLF MIN
SL=147 PLF MAX
=0 PLF MIN (UPLIFT)
WL=150 PLF MAX (UPLIFT)
=86 PLF MAX (UPLIFT)

LINTEL SCHEDULE

MARK	LINTEL	DETAILS
L1	W8x10 w/L4x3 1/2 x 1/4 LOOSE BRICK ANGLE	15/S4.1
L2	W8x18 w/L6x4x5/16 LOOSE BRICK ANGLE	15/S4.1
L3	W8x24 w/L6x4x5/16 LOOSE BRICK ANGLE	15/S4.1
L4	W12x26	15/S4.1
L5	W16x31 w/L6x4x3/8 LOOSE BRICK ANGLE	15/S4.1, 17/S4.1, 22/S4.1
L6	W16x31	15/S4.1, 17/S4.1
L7	W8x21	15/S4.1, 22/S4.1
L8	W8x10	15/S4.1
L9	W8x21 w/L7x4x3/8 LOOSE BRICK ANGLE	15/S4.1



HIGH ROOF FRAMING PLAN - AREA A

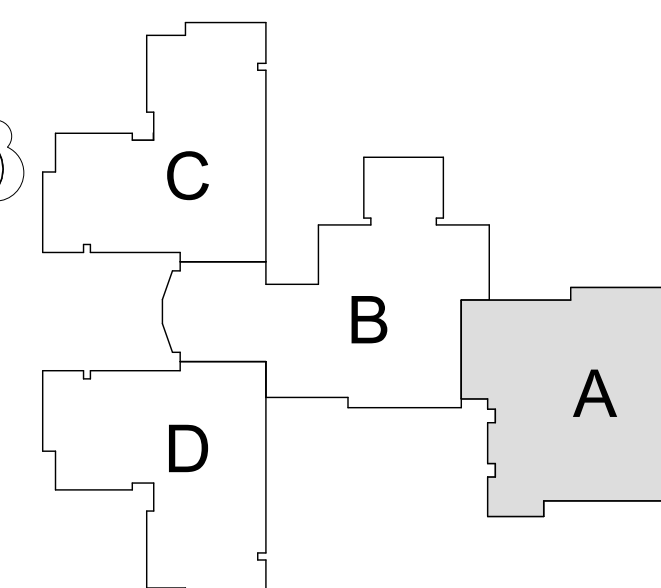
1/8" = 1'-0"

JST BRG EL= VARIES, SEE PLAN

ZERR BERG
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(P) 701.280.0949 (F) 701.280.9686

SHEETS NOTES:

1. VERIFY ALL DIMENSIONS w/ARCH DWGS. WHICH SHALL BE GOVERNING.
2. ALL ROOF DECK (UON) SHALL BE 1 1/2", TYPE 'B', 22 GA METAL DECK BY VULCRAFT OR EQUAL. FASTEN DECK USING 36'S PATTERN w/#12 TEK SCREWS. USE (4) #10 TEK SCREWS. USE (4) #10 TEK SCREWS SIDE LAP FASTENERS PER SPAN.
3. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
4. REINF ALL EXTERIOR CMU WALLS w/1) #5 @2'-0" oc (UON) (CENTER IN CELL). REINF ALL INTERIOR CMU WALLS w/1) #5 @4'-0" oc (CENTER IN CELL).
5. MASON TO COORDINATE LOCATION OF ACOUSTICAL BLOCK TO AVOID SOLID CORES AT JOIST BRG LOCATIONS IN GYM. SEE ARCH.
6. VERIFY LOCATIONS OF ROOF TOP MECHANICAL UNITS & OTHER ROOF TOP OPENINGS w/MECHANICAL & ARCHITECTURAL. S.D. 8/S4.1 & 9/S4.1 FOR FRAMING.
7. SEE ARCHITECTURAL DWGS FOR SOUND BLOCK LOCATIONS. NOTE CMU REINF REQUIREMENT ON THIS PAGE AT SOUND BLOCK LOCATIONS.
8. CONTRACTOR TO VERIFY REQUIRED HEIGHTS OF LINTELS FOR MECHANICAL PENETRATIONS w/MECHANICAL ENGINEER.
9. ALL BEARING & EXTERIOR STEEL STUD WALLS SHALL BE 600S200-54 STUD @1'-4" oc OR EQUAL.
10. ALL BEARING & EXTERIOR STEEL STUD WALLS SHALL BE 600S200-54 STUD @1'-4" oc OR EQUAL.
11. AT GYMNASIUM ROOF. ROOF DECK SHALL BE 3" TYPE 'N' 22 GA. BY VULCRAFT OR EQUAL. FASTEN DECK w/#12 TEK SCREWS USING 244 PATTERN. USE (9) #10 SIDELAP FASTENERS PER SPAN. S.D. 6/S4.1.
12. S.D. 18/S4.1 FOR ALL NON-STRUCTURAL/NON-BRG LINTELS OR FOR LINTEL NOT SPECIFICALLY NOTED ON PLANS. SEE ARCHITECTURE FOR DOOR & WINDOW SCHEDULES & SEE MECHANICAL FOR DUCT & PIPING PENETRATIONS.
13. ▶ DENOTES MOMENT CONNECTION. S.D. 13/S4.3.
14. ALL ROOF JOISTS TO BE DESIGNED FOR A NET UPLIFT OF 13 PSF.

04/14/2016 ADDENDUM #1
04/18/2016 ADDENDUM #2KEY PLAN
NOT TO SCALE

BID GROUP 1

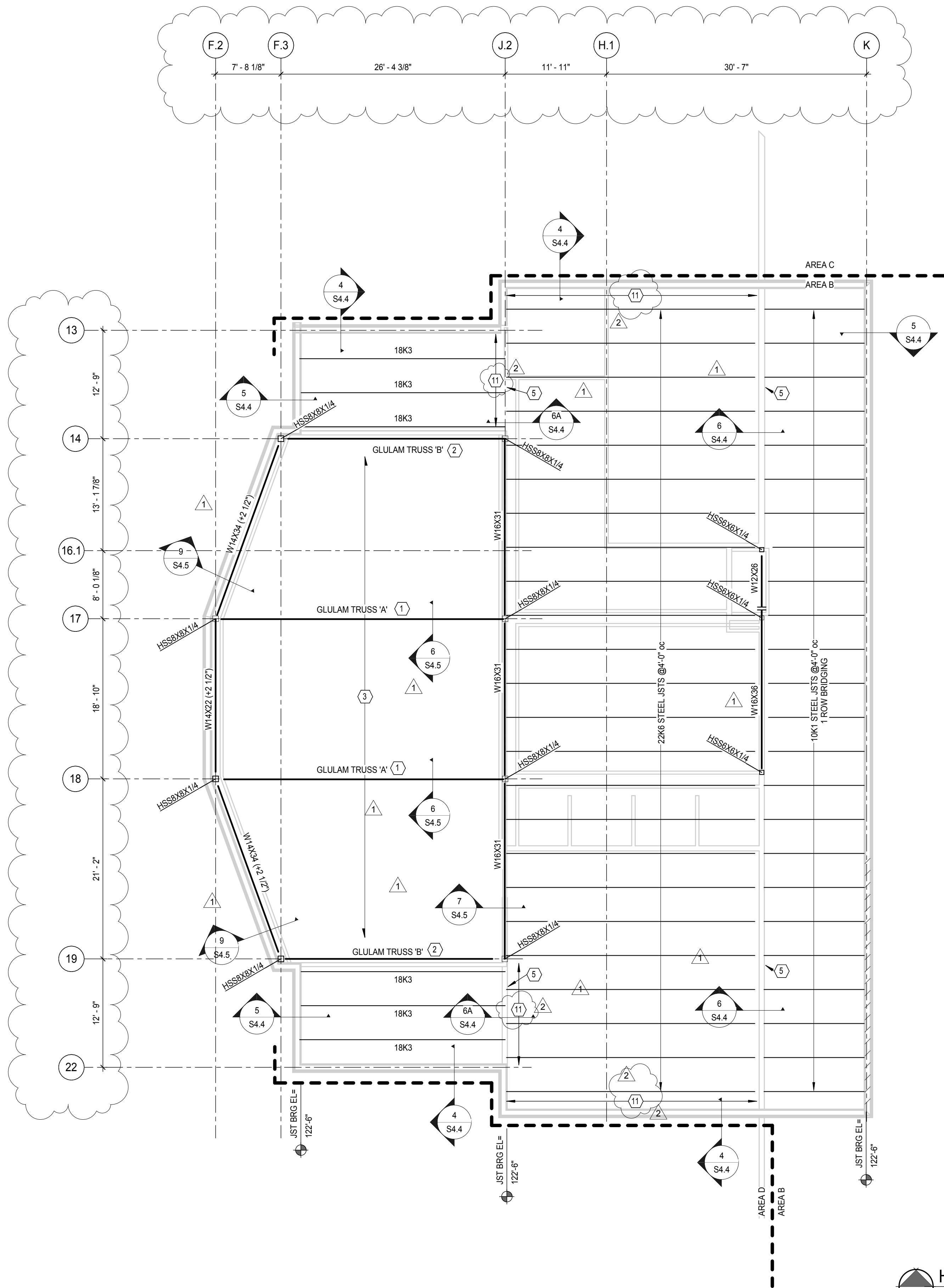
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
Signature: [Signature]
Date: 04/18/2016 Registration No. 41855MOORHEAD AREA PUBLIC
SCHOOLS
NEW ELEMENTARY
SCHOOL
4400 24th Avenue S
Moorhead, MN 56500

HIGH ROOF FRAMING PLAN - AREA A

Project No.: 15-032
Date: 04/18/2016

S2.30



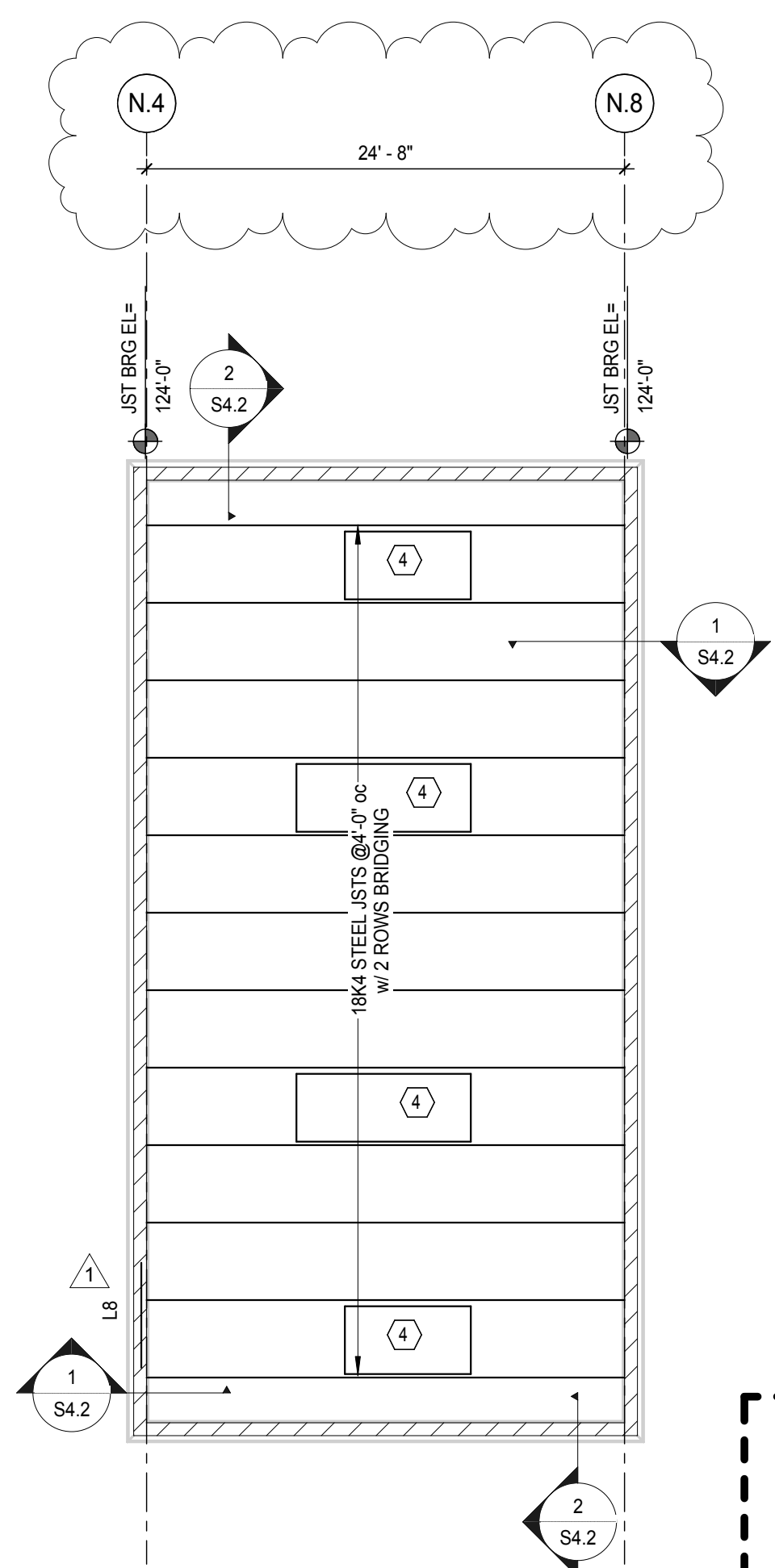
HIGH ROOF FRAMING PLAN - AREA B
 1/8" = 1'-0"

T O STL EL=122'-6" (UON)

- 1) GLULAM TRUSS 'A', S.D. 1/84.5.
- 2) GLULAM TRUSS 'B', S.D. 2/84.5.
- 3) ROOF DECK SHALL BE ER6 5A, 18 GA METAL DECK BY EPIC OR EQUAL. FASTEN DECK USING 246 PATTERN w/12 TEK SCREWS SIDELAP FASTENERS @2'-0" oc.
- 4) MECHANICAL OPENING, COORDINATE SIZE & LOCATION w/MECHANICAL CONTRACTOR, S.D. 8/84.1 & 9/84.1.
- 5) INTERIOR BRG WALL STUDS SHALL BE 800S200-54 STEEL STUD JOIST @1'-4" oc w/BRIDGING @4'-0" oc MAX.
- 6) 2" x 16" GA X-BRACE IN STUD WALL, S.D. 7.8.9 & 10/84.4.
- 7) 3" x 16" GA X-BRACE IN STUD WALL, S.D. 7.8.9 & 10/84.4. ANCHOR INTO CMU.

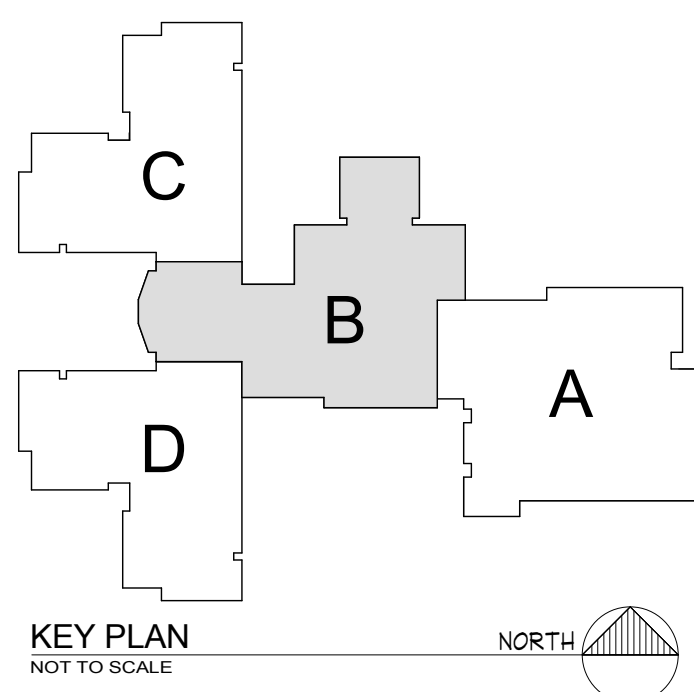
HEADER SCHEDULE				
MARK	HEADER	JACK STUD	KING STUD	DETAILS
H1	(2) 1200S200-97	2	2	1/S4.4
H2	(2) 1000S200-68 w/L6x4x3/8 (LLV) LOOSE BRICK ANGLE	1	2	1/S4.4
H3	HSS12x6x1/4	N/A	HSS6x4x1/4	6/S4.3
H4	(2) 1000S200-68	1	2	1/S4.4
H5	(2) 1000S200-68	2	1	1/S4.4
H6	(2) 800S200-54	1	1	1/S4.4
H7	HSS8x6x1/4	2	1	1/S4.4
H8	(2) 600S200-54	1	2	1/S4.4

LINTEL SCHEDULE		
MARK	LINTEL	DETAILS
L1	W8x10 w/L4x3 1/2 x 1/4 LOOSE BRICK ANGLE	15/S4.1
L2	W8x18 w/L6x4x5/16 LOOSE BRICK ANGLE	15/S4.1
L3	W8x24 w/L6x4x5/16 LOOSE BRICK ANGLE	15/S4.1
L4	W12x26	15/S4.1
L5	W16x31 w/L6x4x3/8 LOOSE BRICK ANGLE	15/S4.1, 17/S4.1, 22/S4.1
L6	W16x31	15/S4.1, 17/S4.1
L7	W8x21	15/S4.1, 22/S4.1
L8	W8x10	15/S4.1
L9	W8x21 w/L7x4x3/8 LOOSE BRICK ANGLE	15/S4.1



- SHEETS NOTES:**
1. VERIFY ALL DIMENSIONS w/ARCH DWGS, WHICH SHALL BE GOVERNING.
 2. ALL ROOF DECK (UON) SHALL BE 1 1/2", TYPE 'B', 22 GA METAL DECK BY VULCRAFT OR EQUAL. FASTEN DECK USING 3615 PATTERN w/12 TEK SCREWS, USE (4) #10 TEK SCREWS, USE (4) #10 TEK SCREWS SIDE LAP FASTENERS PER SPAN.
 3. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
 4. REINF ALL CMU WALLS w/1) #5 @4'-0" oc (UON) (CENTER IN CELL).
 5. MASON TO COORDINATE LOCATION OF ACCOUSTICAL BLOCK TO AVOID SOLID CORES AT JOIST BRG LOCATIONS IN GYM. SEE ARCH.
 6. VERIFY LOCATIONS OF ROOF TOP MECHANICAL UNITS & OTHER ROOF TOP OPENINGS w/MECHANICAL & ARCHITECTURAL, S.D. 8 & 9/84.1 FOR FRAMING.
 7. SEE ARCHITECTURAL DWGS FOR SOUND BLOCK LOCATIONS. NOTE CMU REINF REQUIREMENT ON THIS PAGE AT SOUND BLOCK LOCATIONS.
 8. CONTRACTOR TO VERIFY REQUIRED HEIGHTS OF LINTELS FOR MECHANICAL PENETRATIONS w/MECHANICAL ENGINEER.
 9. ALL BEARING & EXTERIOR STEEL STUD WALLS SHALL BE 600S200-54 STUD @1'-4" oc OR EQUAL.
 10. S.D. 18/84.1 FOR ALL NON-STRUCTURAL/NON-BRG LINTELS OR FOR LINTEL NOT SPECIFICALLY NOTED ON PLANS. SEE ARCHITECTURE FOR DOOR & WINDOW SCHEDULES & SEE MECHANICAL FOR DUCT & PIPING PENETRATIONS.
 - 11) ALL ROOF JOISTS TO BE DESIGNED FOR A NET UPLIFT OF 13 PSF.

04/14/2016 ADDENDUM #1
 04/18/2016 ADDENDUM #2



BID GROUP 1

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
 Signature:
 Date: 04/18/2016 Registration No. 41855



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 Moorhead, MN 56500

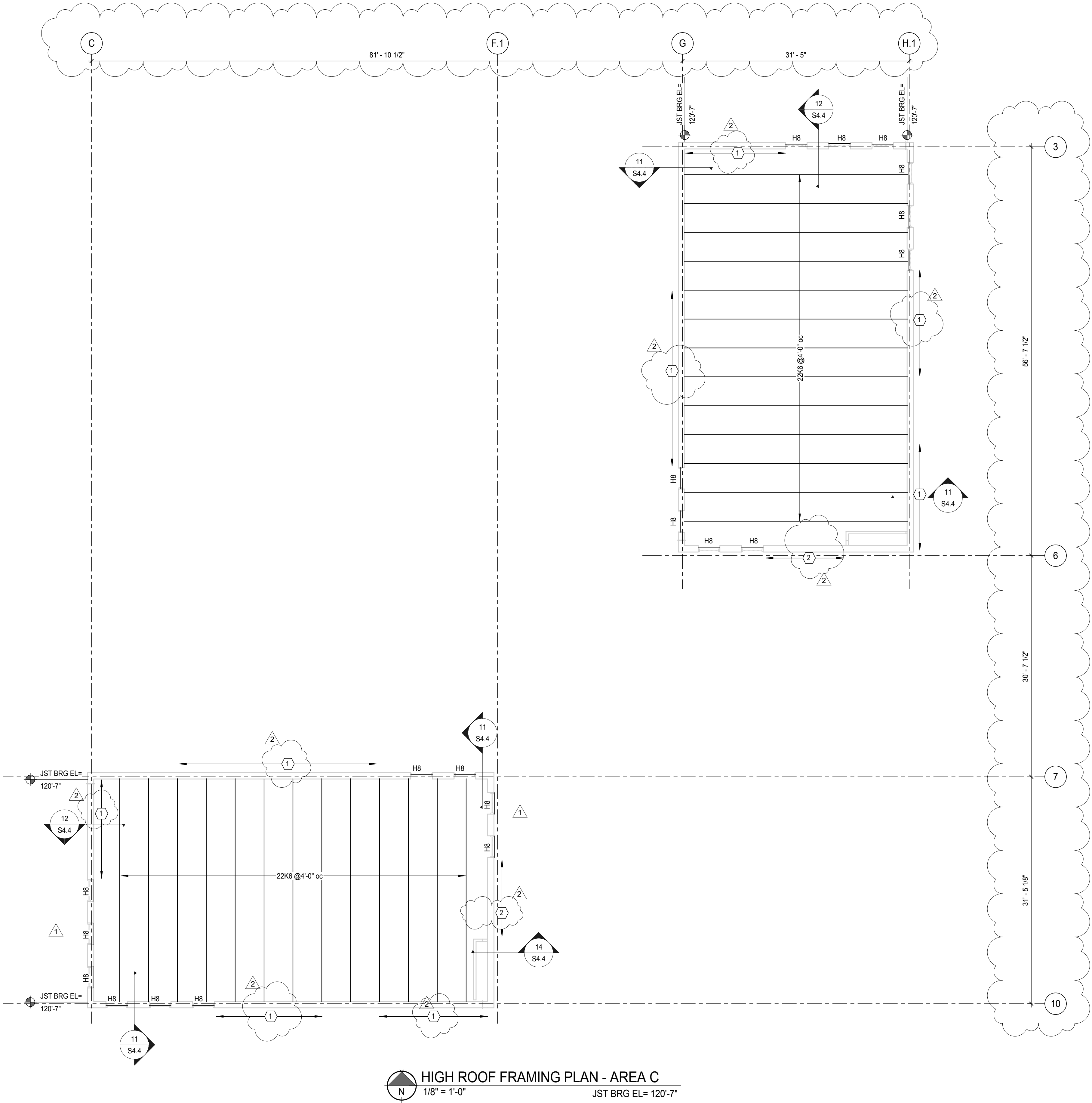
HIGH ROOF FRAMING PLAN - AREA B

Project No.: 15-032
 Date: 04/18/2016

S2.31

HEADER SCHEDULE				
MARK	HEADER	JACK STUD	KING STUD	DETAILS
H1	(2) 1200S200-87	2	2	1/S4.4
H2	(2) 1000S200-68 w/6x4x3/8 (LLV) LOOSE BRICK ANGLE	1	2	1/S4.4
H3	HSS12x6x1/4	N/A	HSS6x4x1/4	6/S4.3
H4	(2) 1000S200-68	1	2	1/S4.4
H5	(2) 1000S200-68	2	1	1/S4.4
H6	(2) 800S200-54	1	1	1/S4.4
H7	HSS8x6x1/4	2	1	1/S4.4
H8	(2) 600S200-54	1	2	1/S4.4

- KEYNOTES
- (1) 3" x 16" GA X-BRACE IN STUD WALL S.D. 7.8.9 & 10S4.4
- (2) 3" x 16" GA X-BRACE IN STUD WALL S.D. 7.8.9 & 10S4.4 ANCHOR NOT CMU WALL



ZERR BERG
ARCHITECTS

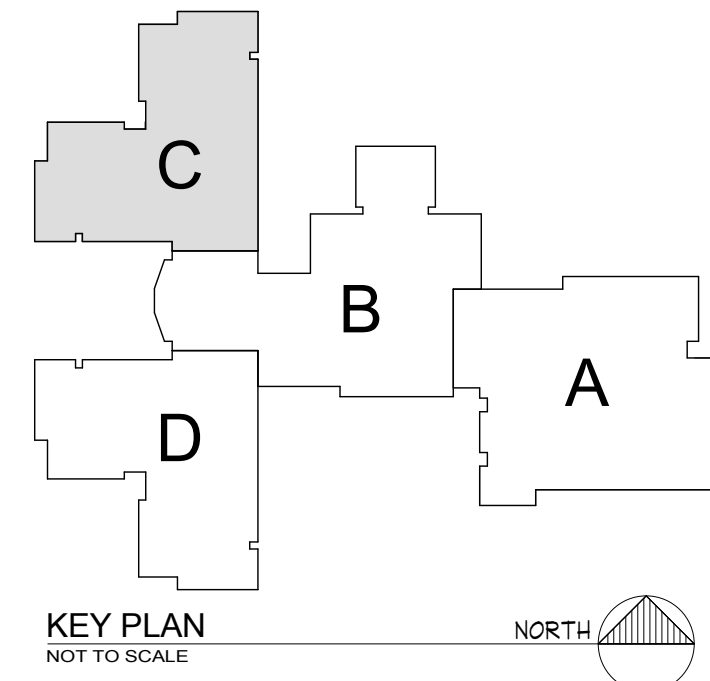
510 NORTH 4TH AVENUE FARGO, ND 58102-4821
701.280.0167 FAX 701.280.9021

gehrtz
CONSTRUCTION SERVICES

HEYER ENGINEERING
Structural Consultant
1020 36th Street SW Fargo, ND 58103
(P) 701.280.0949 (F) 701.280.9686

- SHEETS NOTES:
1. VERIFY ALL DIMENSIONS w/ARCH DWGS, WHICH SHALL BE GOVERNING.
 2. ALL ROOF DECK (UON) SHALL BE 1 1/2" TYPE 'B', 22 GA METAL DECK BY VULCRAFT OR EQUAL. FASTEN DECK USING 36'S PATTERN w/#12 TEK SCREWS. USE (4) #10 TEK SCREWS. USE (4) #10 TEK SCREWS SIDE LAP FASTENERS PER SPAN.
 3. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
 4. REINF ALL CMU WALLS w/1) #5 @4'-0" oc (UON) (CENTER IN CELL).
 5. MASON TO COORDINATE LOCATION OF ACoustICAL BLOCK TO AVOID SOLID CORSES AT JOIST BRG LOCATIONS IN GYM. SEE ARCH.
 6. VERIFY LOCATIONS OF ROOF TOP MECHANICAL UNITS & OTHER ROOF TOP OPENINGS w/MECHANICAL & ARCHITECTURAL. S.D. 6 & 9S4.1 FOR FRAMING.
 7. SEE ARCHITECTURAL DWGS FOR SOUND BLOCK LOCATIONS. NOTE CMU REINF REQUIREMENT ON THIS PAGE AT SOUND BLOCK LOCATIONS.
 8. CONTRACTOR TO VERIFY REQUIRED HEIGHTS OF LINTELS FOR MECHANICAL PENETRATIONS w/MECHANICAL ENGINEER.
 9. ALL BEARING & EXTERIOR STEEL STUD WALLS SHALL BE 600S200-54 STUD @1'-4" oc OR EQUAL.
 10. S.D. 18S4.1 FOR ALL NON-STRUCTURAL/NON-BRG LINTELS OR FOR LINTEL NOT SPECIFICALLY NOTED ON PLANS. SEE ARCHITECTURE FOR DOOR & WINDOW SCHEDULES & SEE MECHANICAL FOR DUCT & PIPING PENETRATIONS.
 11. ALL ROOF JOISTS TO BE DESIGNED FOR A NET UPLIFT OF 13 PSF.

04/14/2016 ADDENDUM #1
04/18/2016 ADDENDUM #2



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Print Name: Eric A Greiff
Signature:
Date: 04/18/2016 Registration No. 41855

M
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4400 24th Avenue S
Moorhead, MN 56500

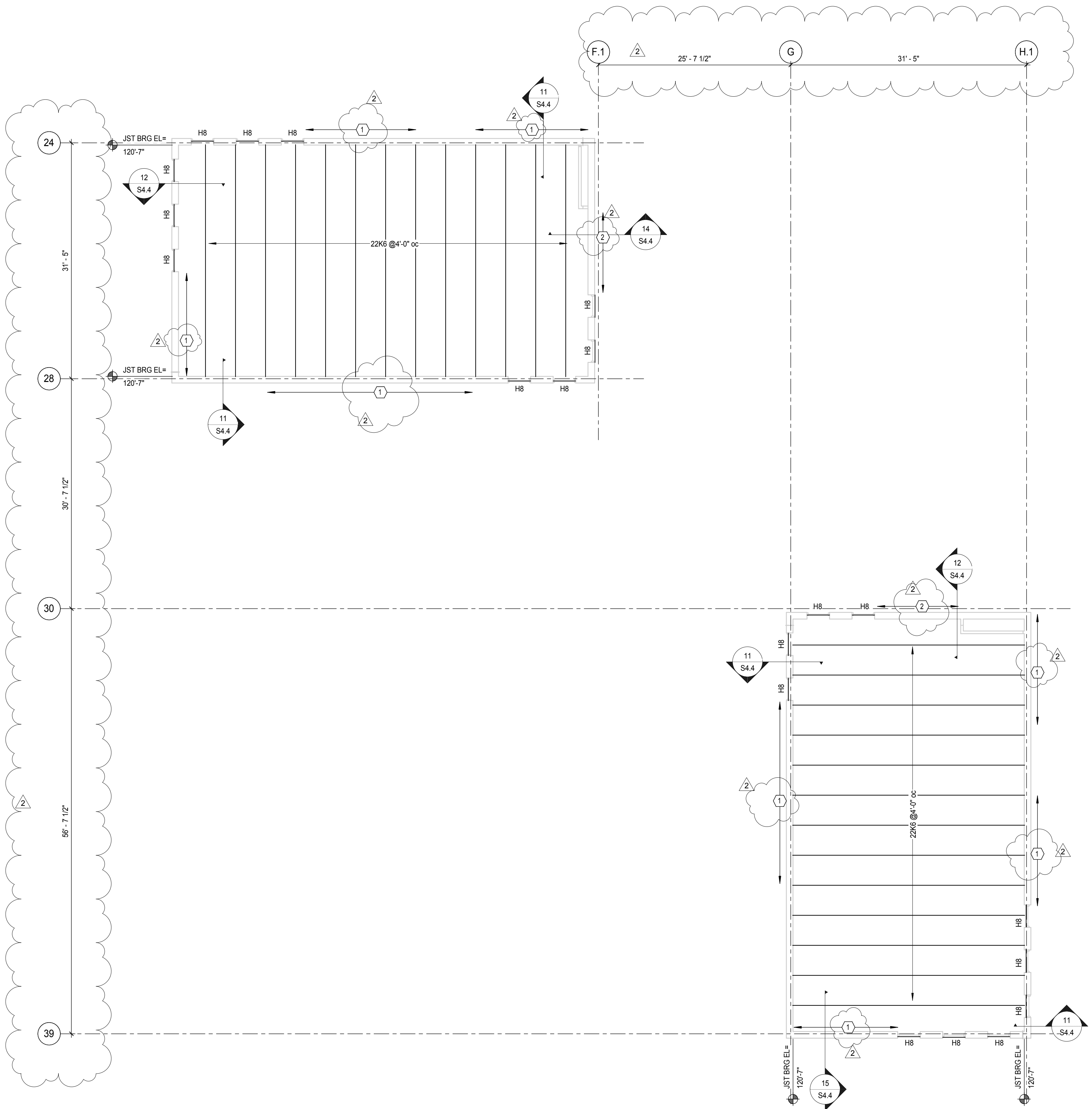
HIGH ROOF FRAMING PLAN - AREA C

Project No.: 15-032
Date: 04/18/2016

S2.32

HEADER SCHEDULE				
MARK	HEADER	JACK STUD	KING STUD	DETAILS
H1	(2) 1200S200-97	2	2	1/S4.4
H2	(2) 1000S200-68 w/L6x4x3/8 (LLV) LOOSE BRICK ANGLE	1	2	1/S4.4
H3	HSS12x6x1/4	N/A	HSS6x4x1/4	6/S4.3
H4	(2) 1000S200-68	1	2	1/S4.4
H5	(2) 1000S200-68	2	1	1/S4.4
H6	(2) 800S200-54	1	1	1/S4.4
H7	HSS8x6x1/4	2	1	1/S4.4
H8	(2) 600S200-54	1	2	1/S4.4

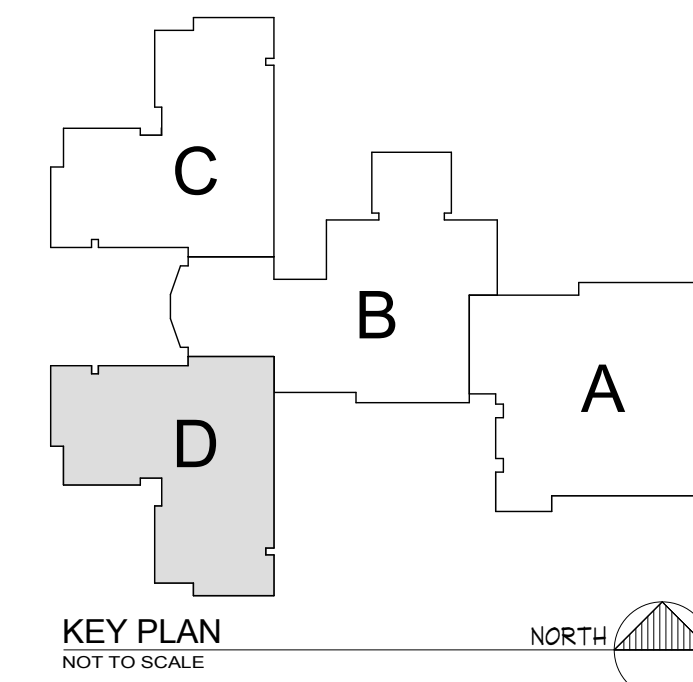
- KEYNOTES
- (1) 3" x 16" GA X-BRACE IN STUD WALL. S.D. 7.8.9 & 10/S4.4.
- (2) 3" x 16" GA X-BRACE IN STUD WALL. S.D. 7.8.9 & 10/S4.4. ANCHOR NOT CMU WALL.



HIGH ROOF FRAMING PLAN - AREA D
1/8" = 1'-0" JST BRG EL= 120'-7"

- SHEETS NOTES:
1. VERIFY ALL DIMENSIONS w/ARCH DWGS. WHICH SHALL BE GOVERNING.
 2. ALL ROOF DECK (UCN) SHALL BE 1 1/2" TYPE 'B' 22 GA METAL DECK BY VULCRAFT OR EQUAL. FASTEN DECK USING 38/5 PATTERN w/#12 TEK SCREWS. USE (4) #10 TEK SCREWS. USE (4) #10 TEK SCREWS SIDE LAP FASTENERS PER SPAN.
 3. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
 4. REINF ALL CMU WALLS w/(1) #5 @4'-0" oc (UCN) (CENTER IN CELL).
 5. MASON TO COORDINATE LOCATION OF ACCOUSTICAL BLOCK TO AVOID SOLID CORES AT JOIST BRG LOCATIONS IN GYM. SEE ARCH.
 6. VERIFY LOCATIONS OF ROOF TOP MECHANICAL UNITS & OTHER ROOF TOP OPENINGS w/MECHANICAL & ARCHITECTURAL. S.D. 8 & 9/S4.1 FOR FRAMING.
 7. SEE ARCHITECTURAL DWGS FOR SOUND BLOCK LOCATIONS. NOTE CMU REINF REQUIREMENT ON THIS PAGE AT SOUND BLOCK LOCATIONS.
 8. CONTRACTOR TO VERIFY REQUIRED HEIGHTS OF LINTELS FOR MECHANICAL PENETRATIONS w/MECHANICAL ENGINEER.
 9. ALL BEARING & EXTERIOR STEEL STUD WALLS SHALL BE 600S200-54 STUD @1'-4" oc OR EQUAL.
 10. S.D. 18/S4.1 FOR ALL NON-STRUCTURAL/NON-BRG LINTELS OR FOR LINTEL NOT SPECIFICALLY NOTED ON PLANS. SEE ARCHITECTURE FOR DOOR & WINDOW SCHEDULES & SEE MECHANICAL FOR DUCT & PIPING PENETRATIONS.
 11. ALL ROOF JOISTS TO BE DESIGNED FOR A NET UPLIFT OF 13 PSF.

04/14/2016 ADDENDUM #1
04/18/2016 ADDENDUM #2



BID GROUP 1

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
Signature:
Date: 04/18/2016 Registration No. 41855

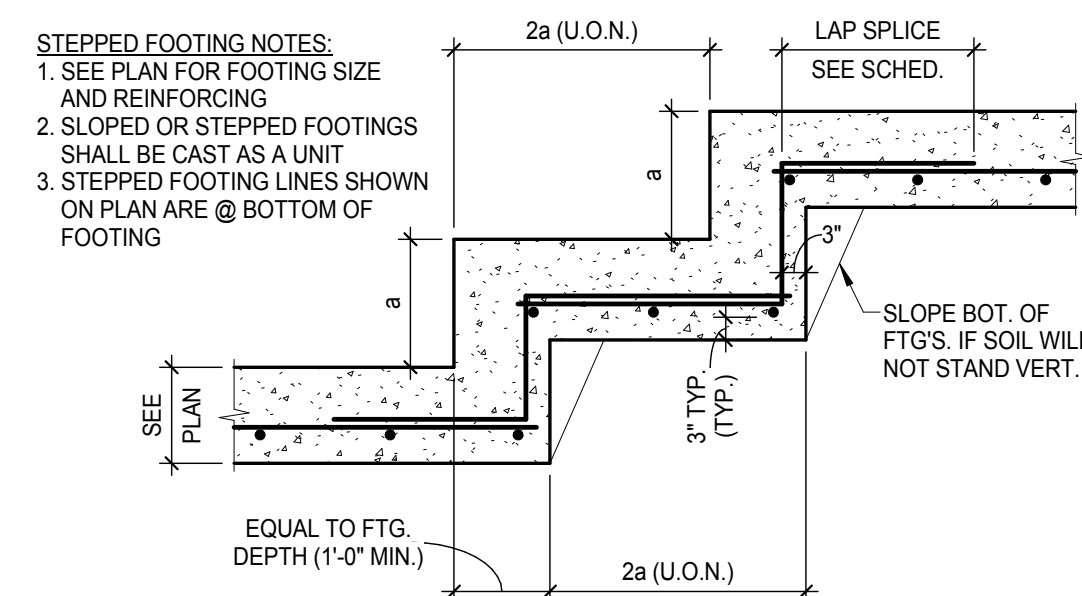


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Moorhead, MN 56500

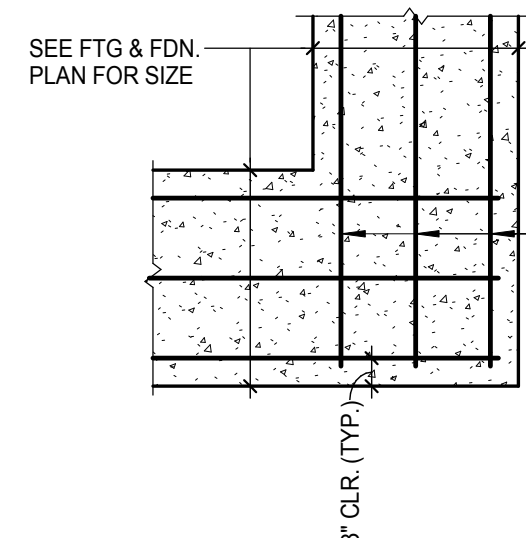
HIGH ROOF FRAMING PLAN - AREA D

Project No.: 15-032
Date: 04/18/2016

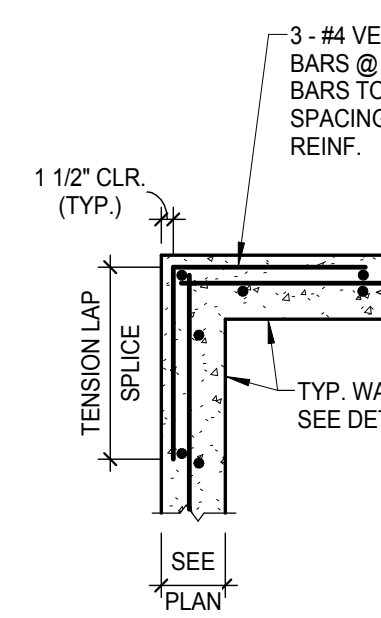
S2.33



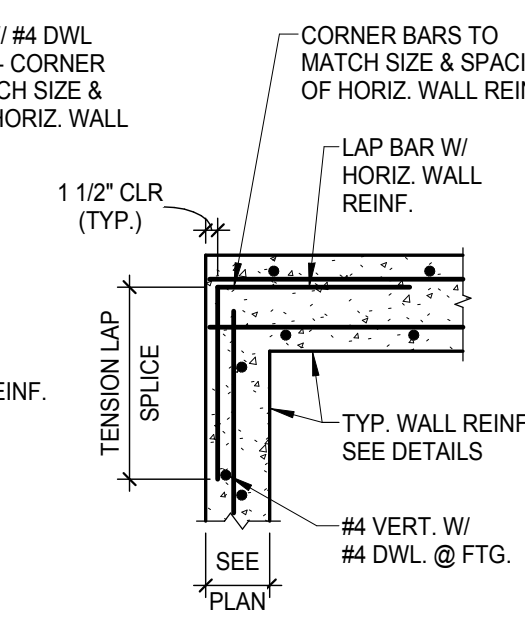
1 STEPPED FTG DETAIL
S3.1 1/2" = 1'-0"



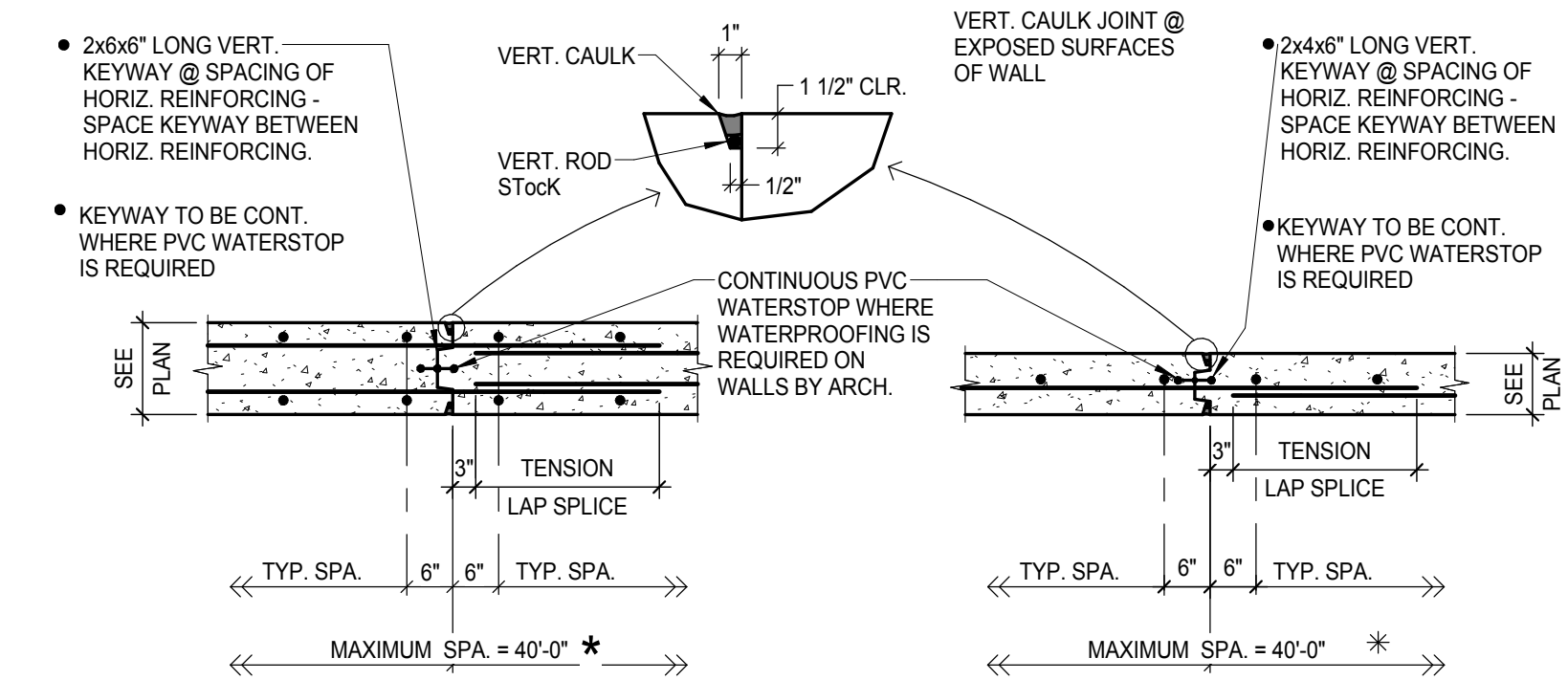
2 CORNER FTG REINF
S3.1 1/2" = 1'-0"



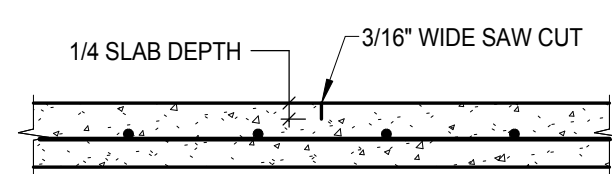
3 CORNER WALL REINF
S3.1 1/2" = 1'-0"



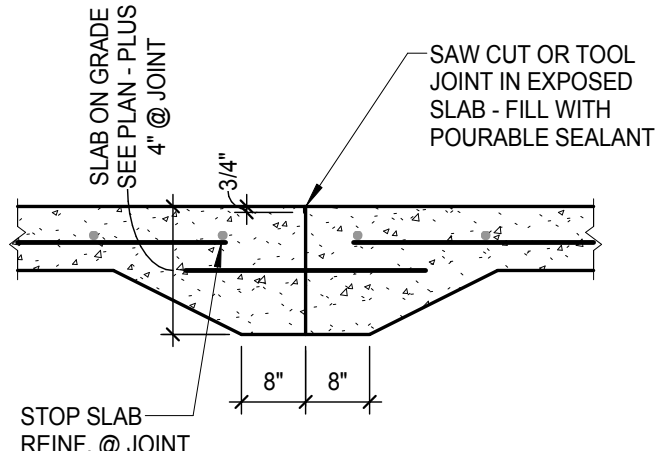
4 WALL CONST INTER INTERSECTION DETAIL
S3.1 1/2" = 1'-0"



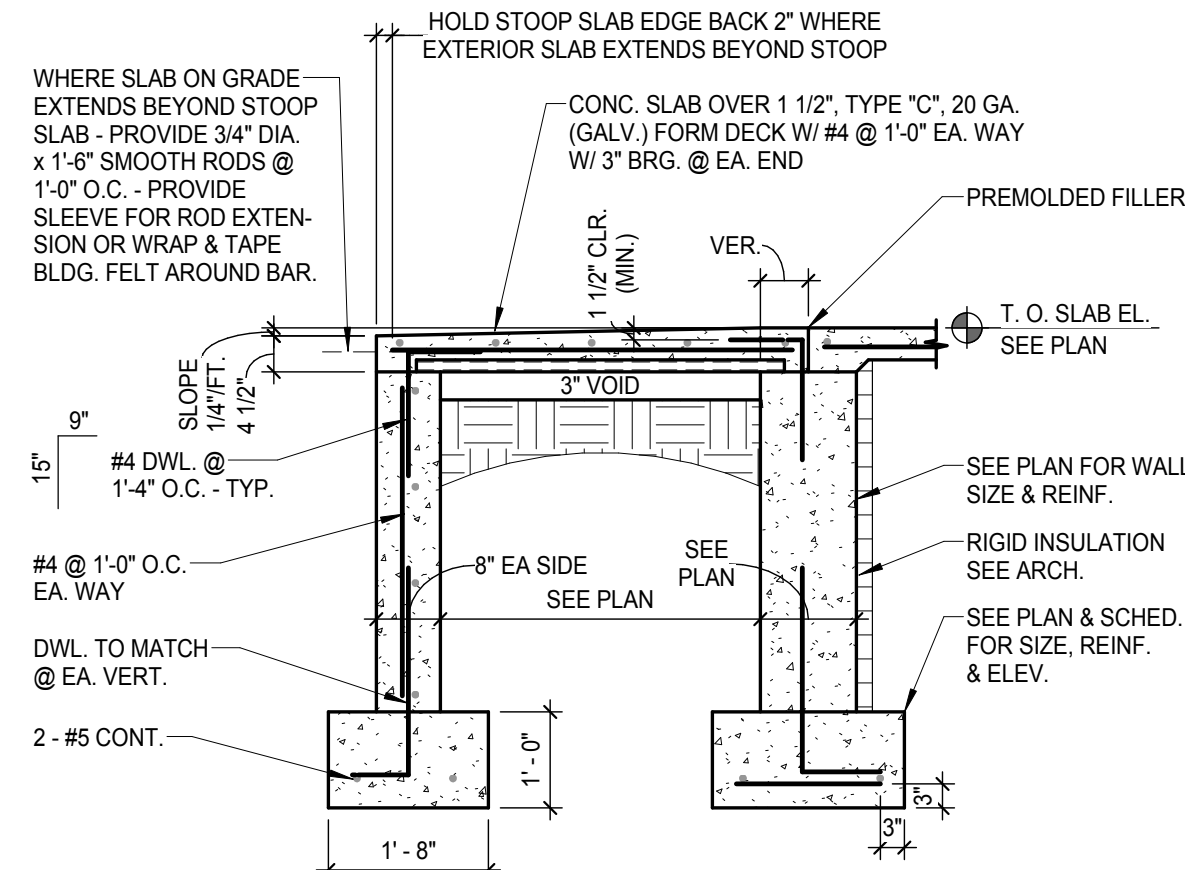
5 TYPICAL WALL CONST JOINT
S3.1 1/2" = 1'-0"



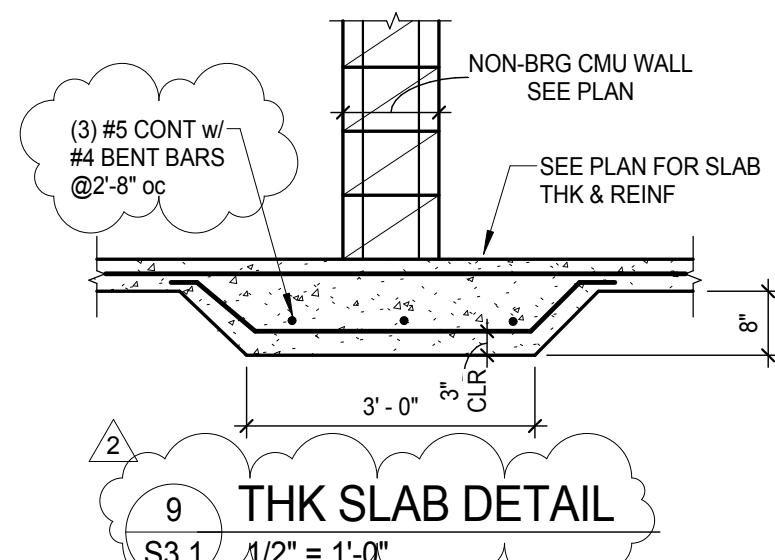
6 FLR CONTROL JOINT (CJ)
S3.1 1/2" = 1'-0"



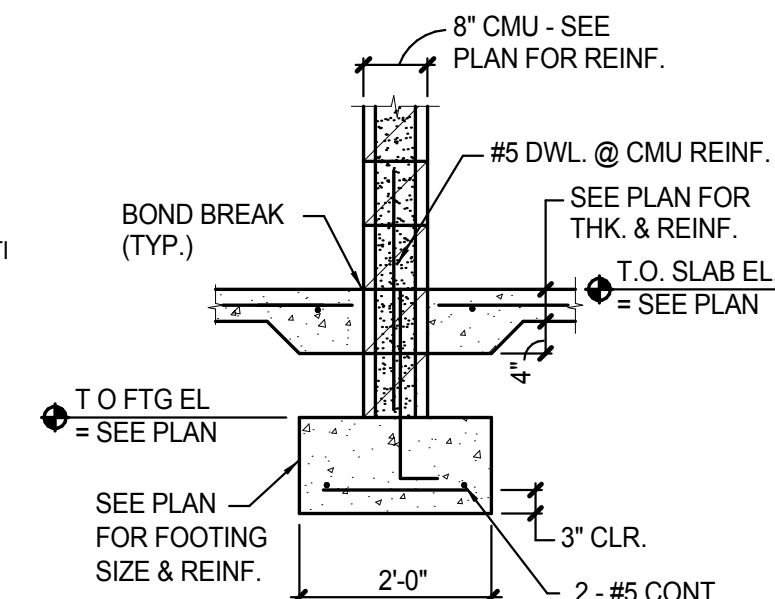
7 FLR CONSTRUCTION JOINT (CCJ)
S3.1 1/2" = 1'-0"



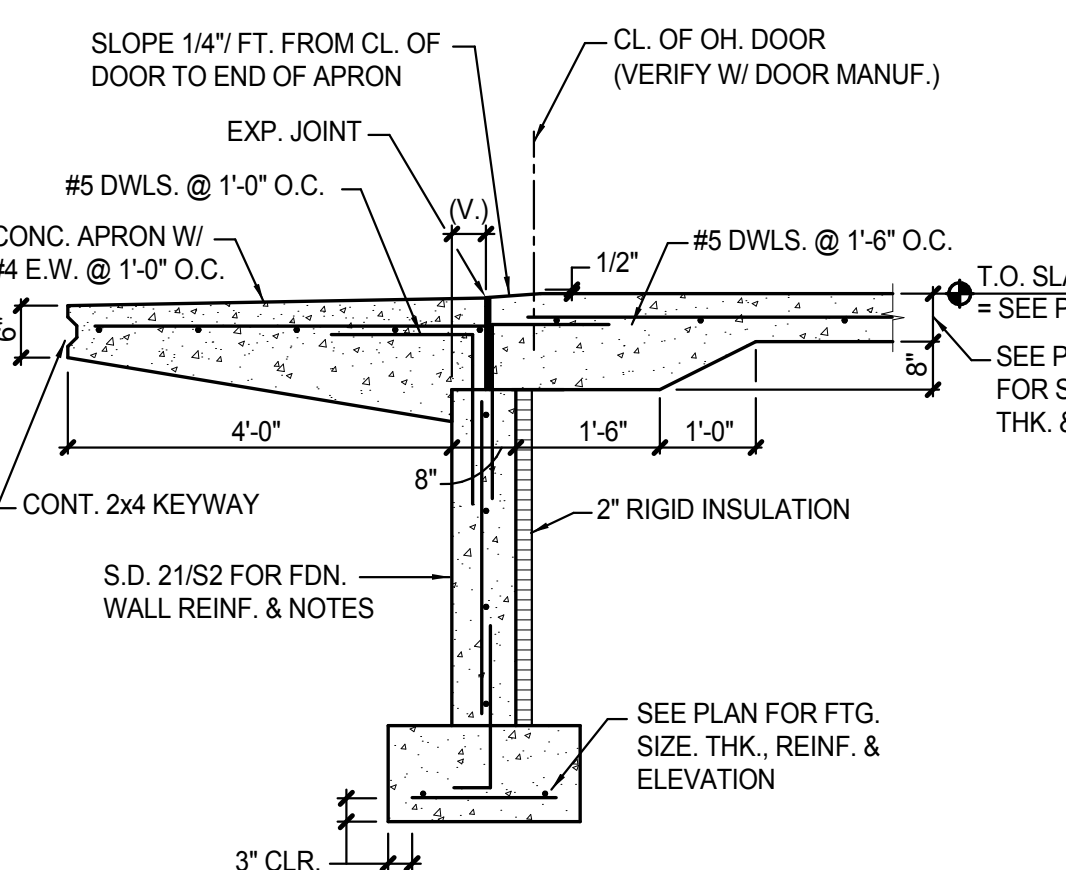
8 TYPICAL STOOP DETAIL
S3.1 1/2" = 1'-0"



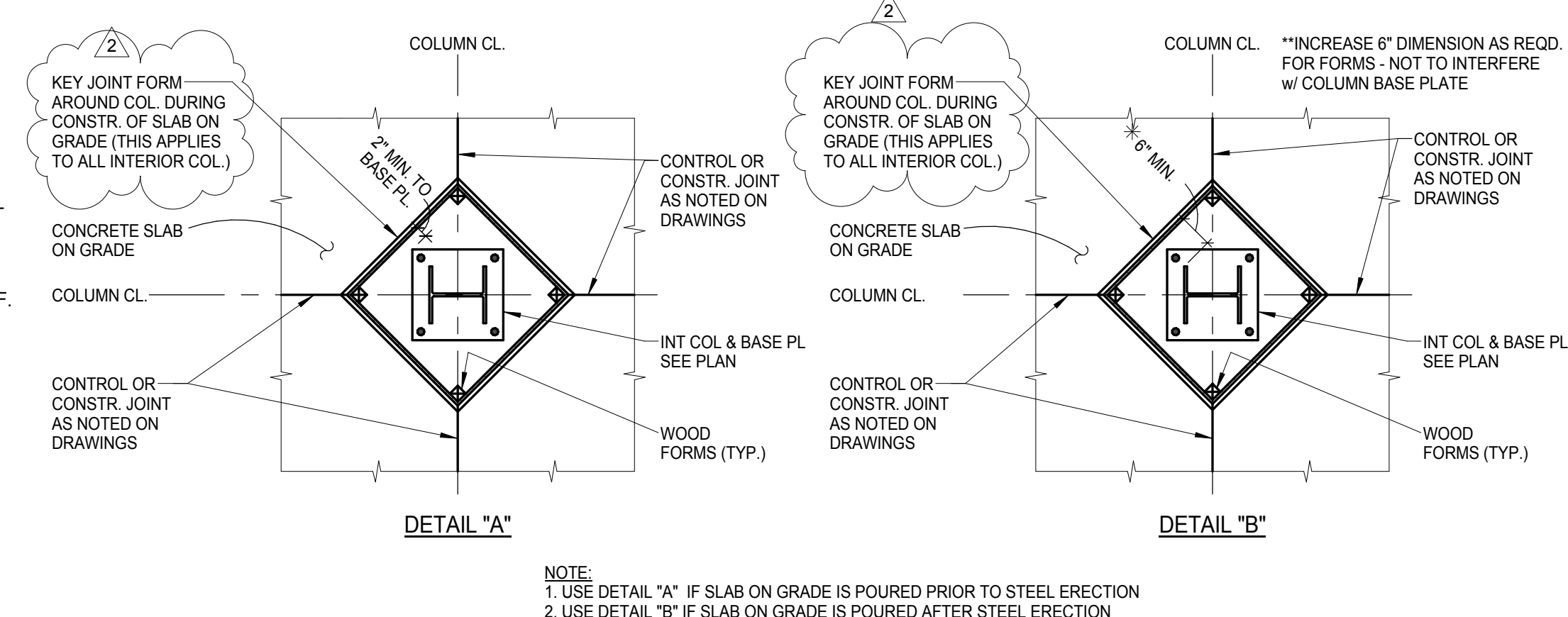
9 THK SLAB DETAIL
S3.1 1/2" = 1'-0"



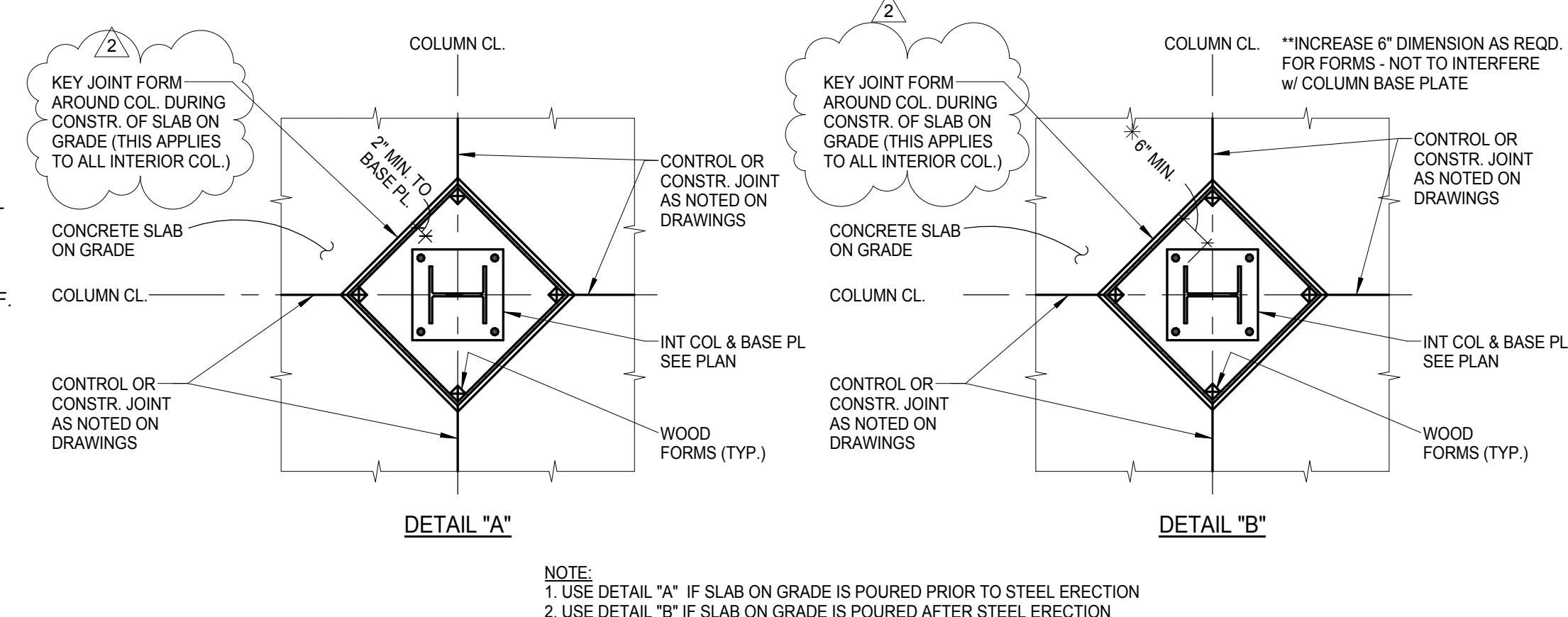
10 THK SLAB DETAIL
S3.1 1/2" = 1'-0"



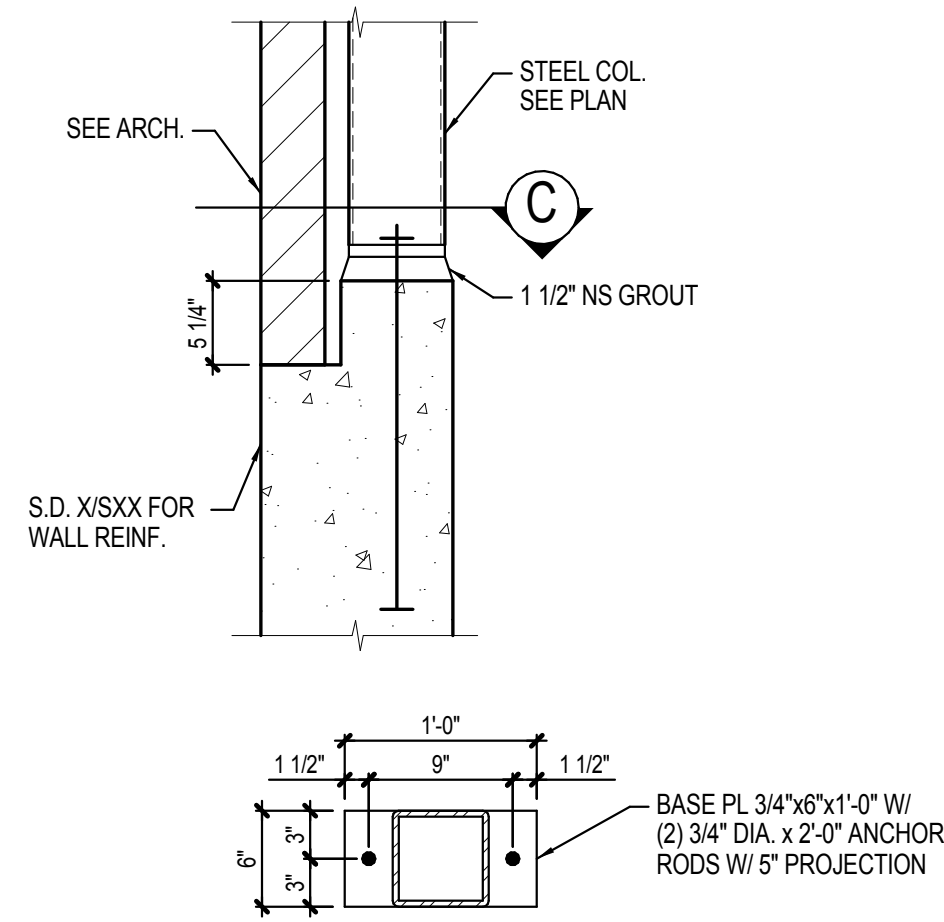
11 INTERIOR FOOTING DETAIL
S3.1 1/2" = 1'-0"



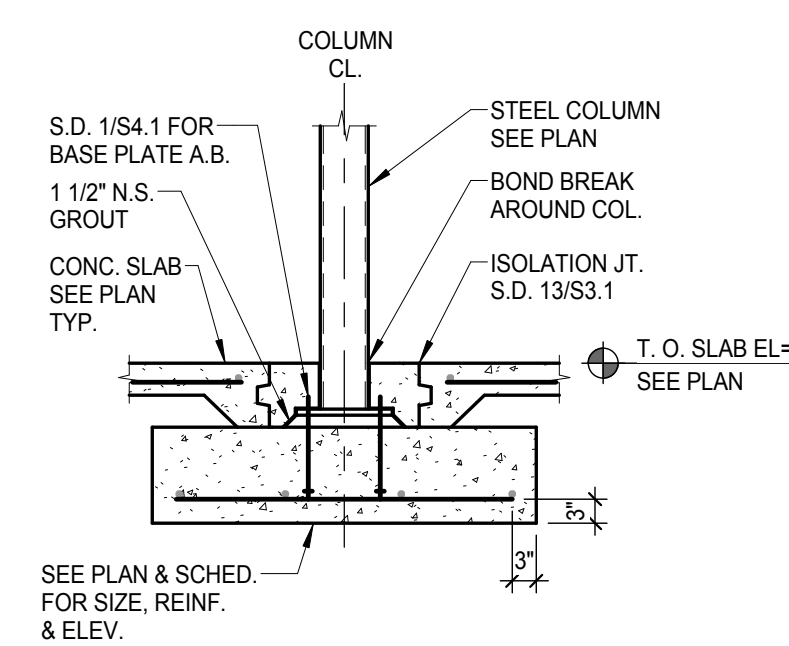
12 FND WALL @ OVERHEAD DOOR
S3.1 1/2" = 1'-0"



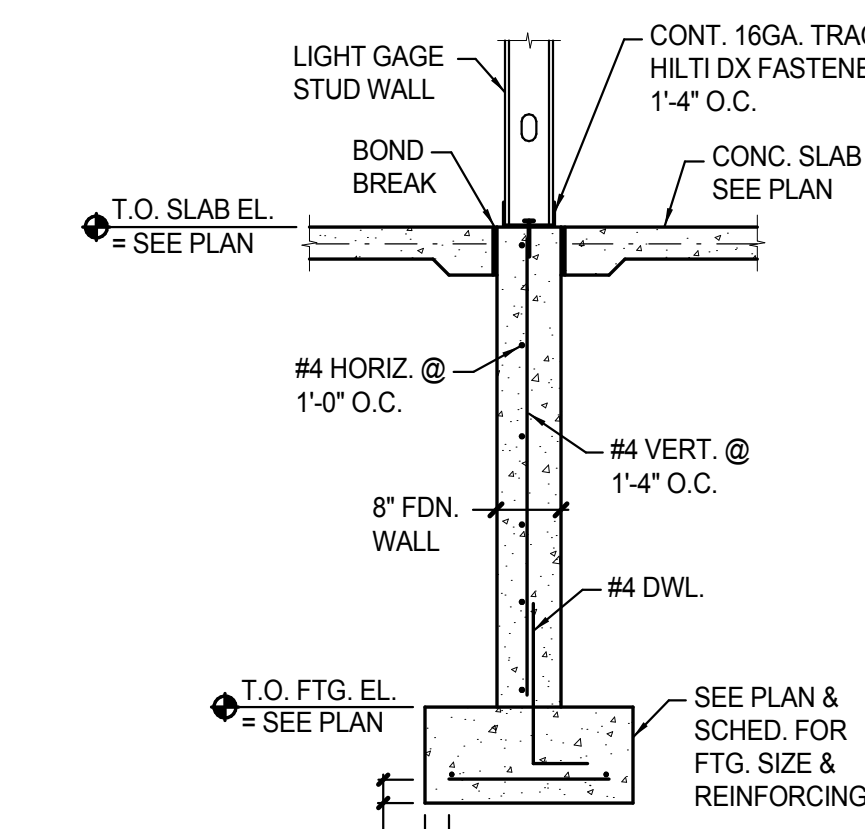
13 ISOLATION JOINT DETAIL
S3.1 1/2" = 1'-0"



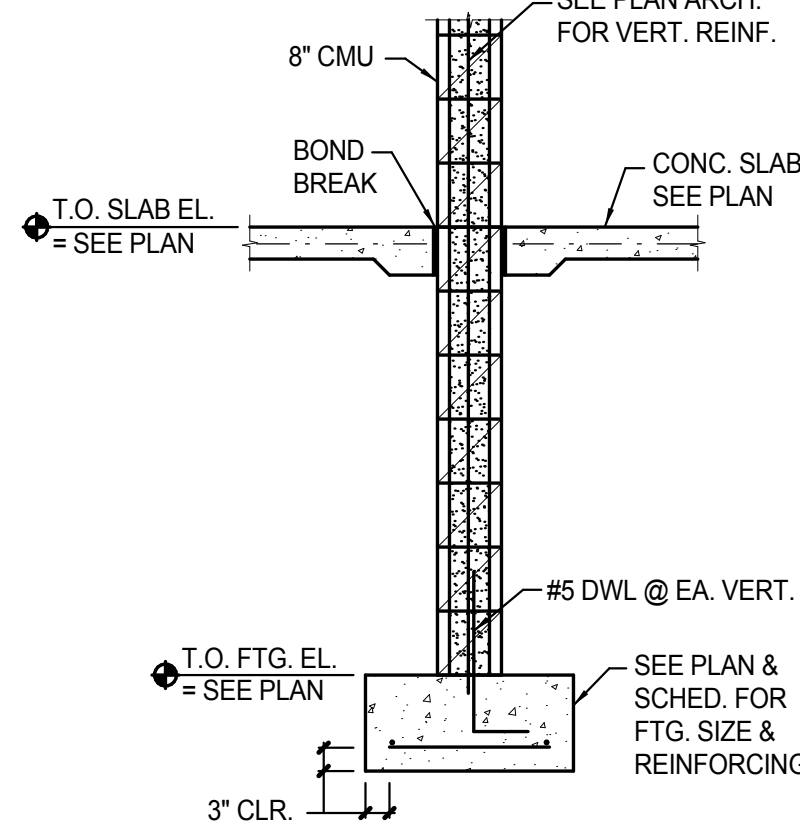
14 HEADER COLUMN BASE DETAIL
S3.1 1" = 1'-0"



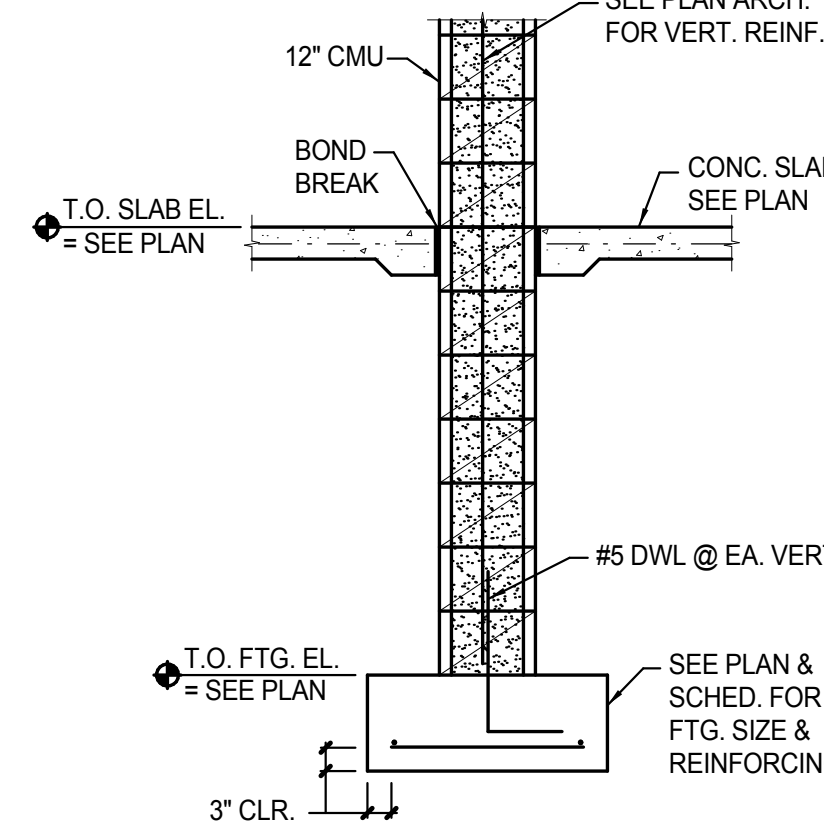
15 INTERIOR COLUMN DETAIL
S3.1 1/2" = 1'-0"



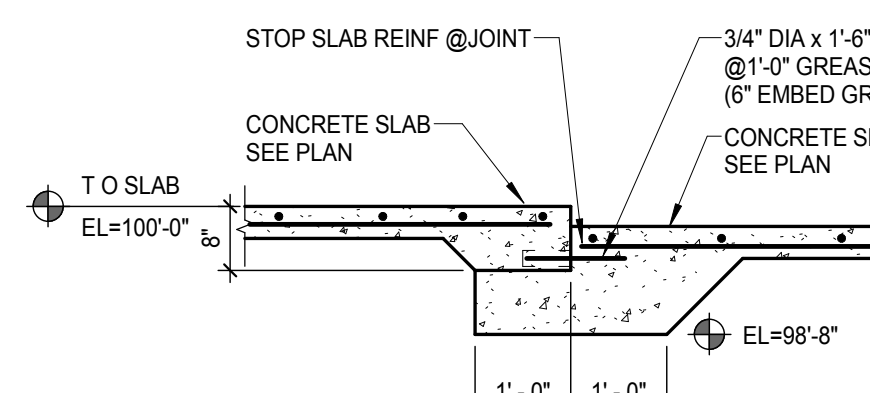
16 INT FND WALL DETAIL
S3.1 1/2" = 1'-0"



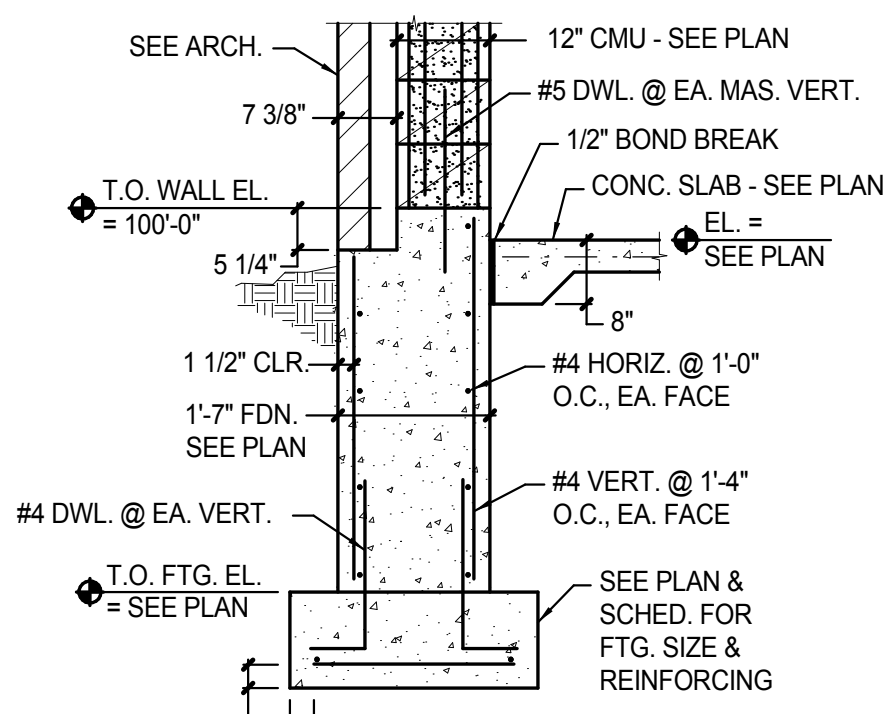
17 INT FND WALL DETAIL
S3.1 1/2" = 1'-0"



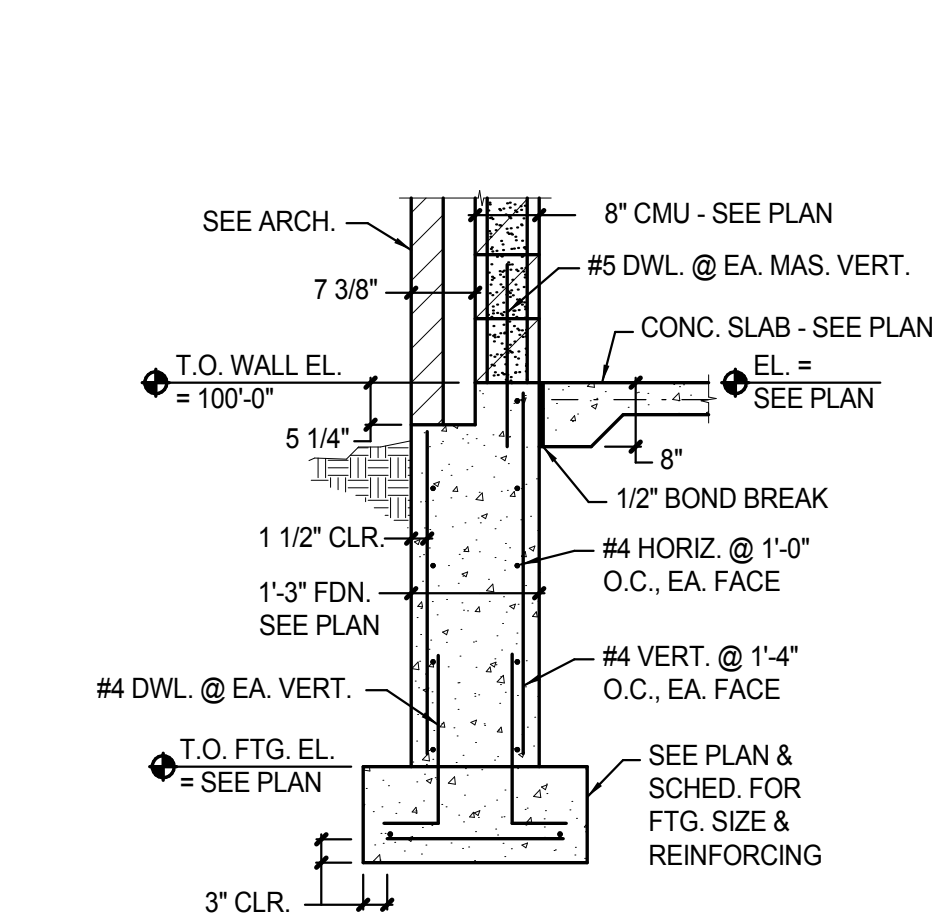
18 INT FND WALL DETAIL
S3.1 1/2" = 1'-0"



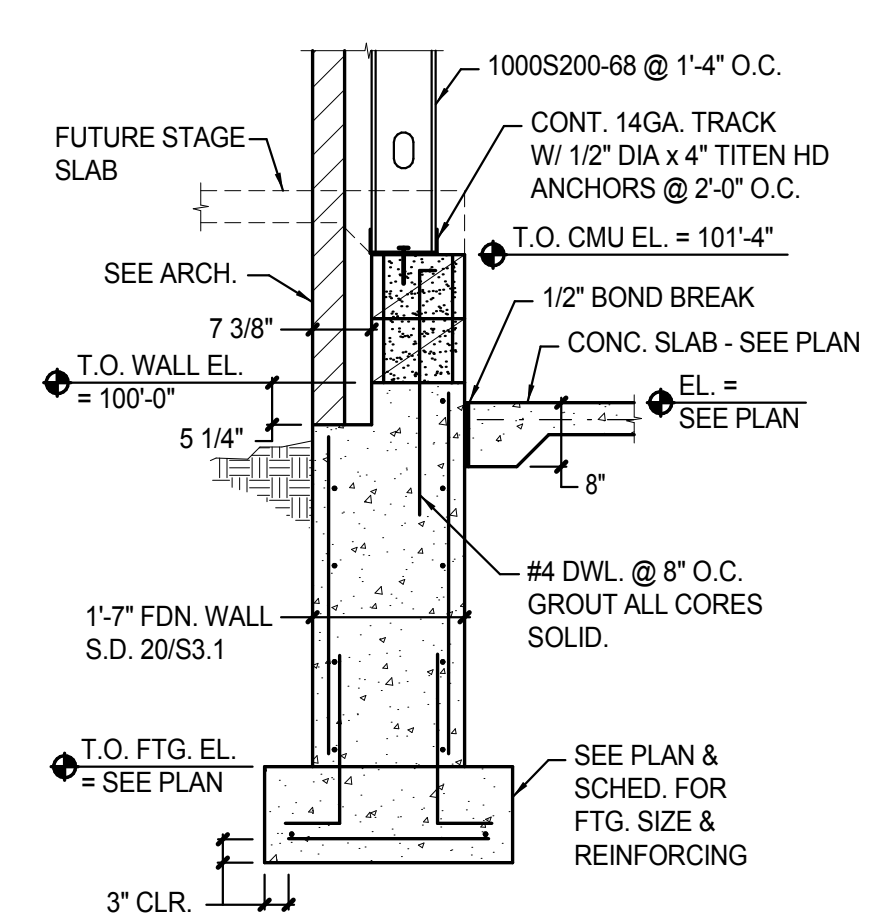
19A SLAB TRANSITION DETAIL
S3.1 1/2" = 1'-0"



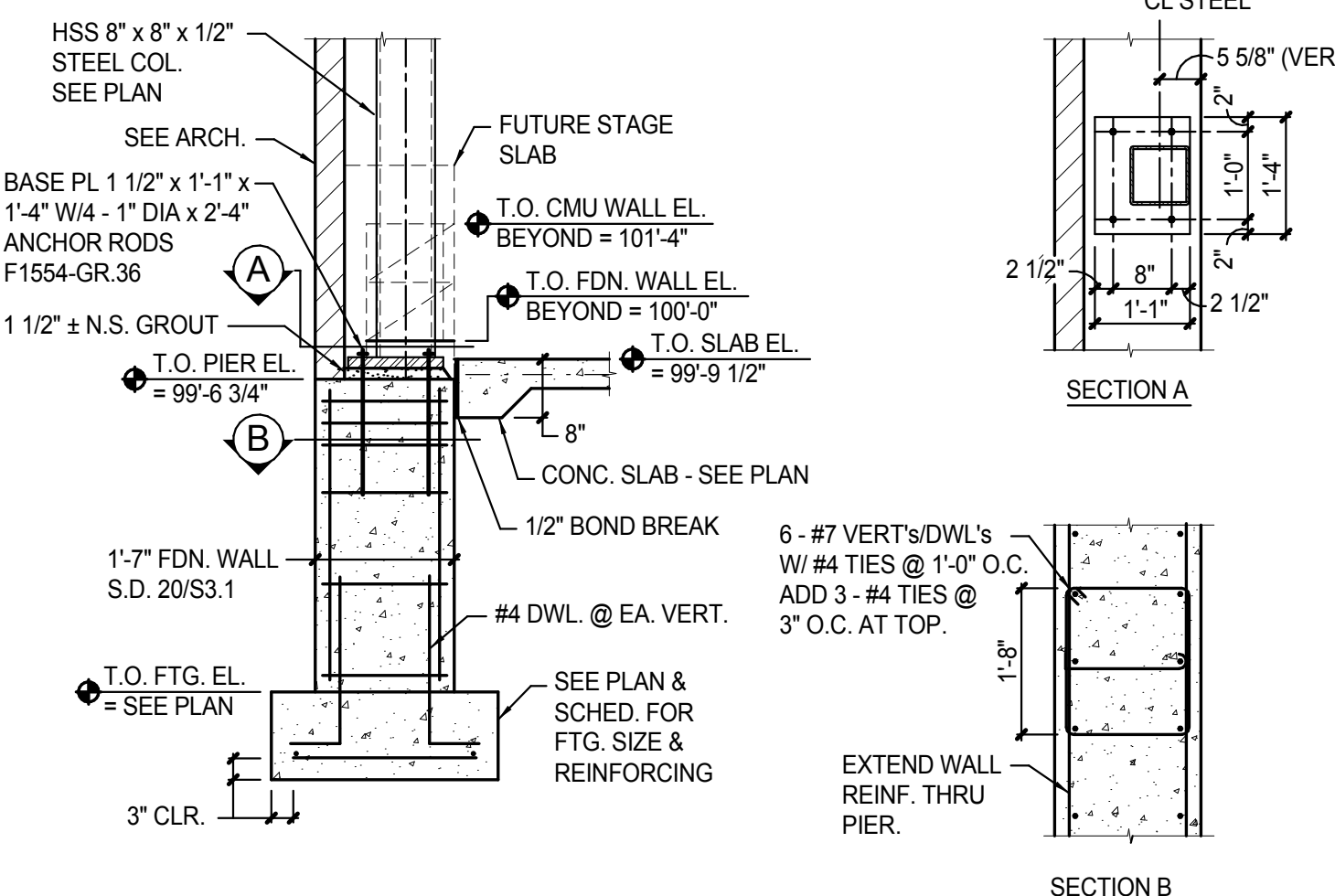
20 EXT FND WALL DETAIL
S3.1 1/2" = 1'-0"



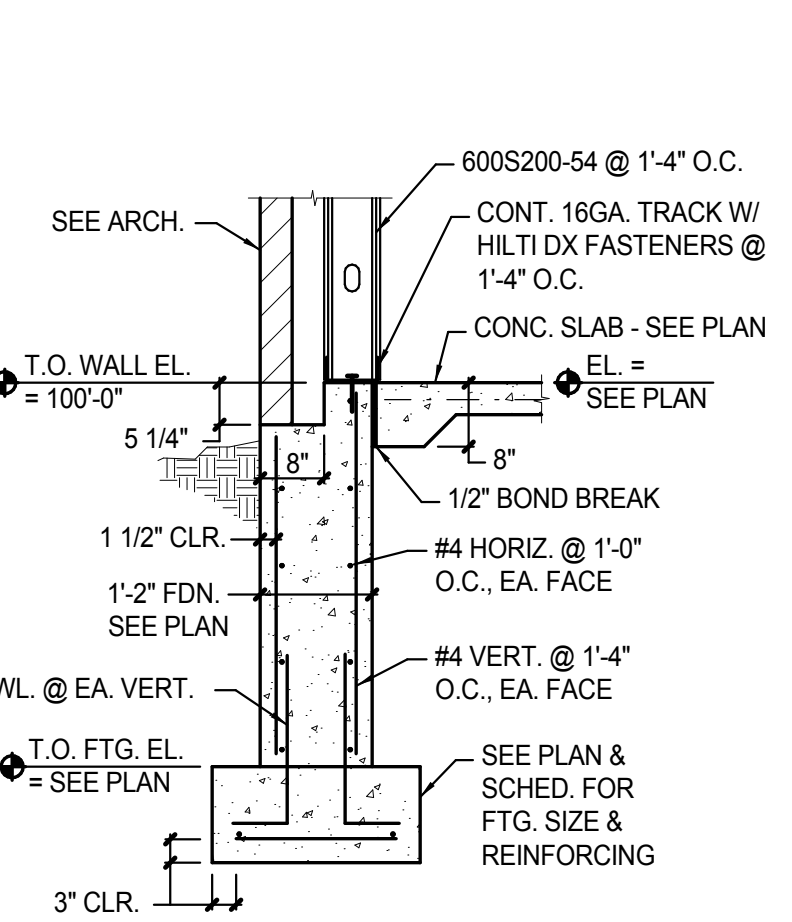
21 EXT FND WALL DETAIL
S3.1 1/2" = 1'-0"



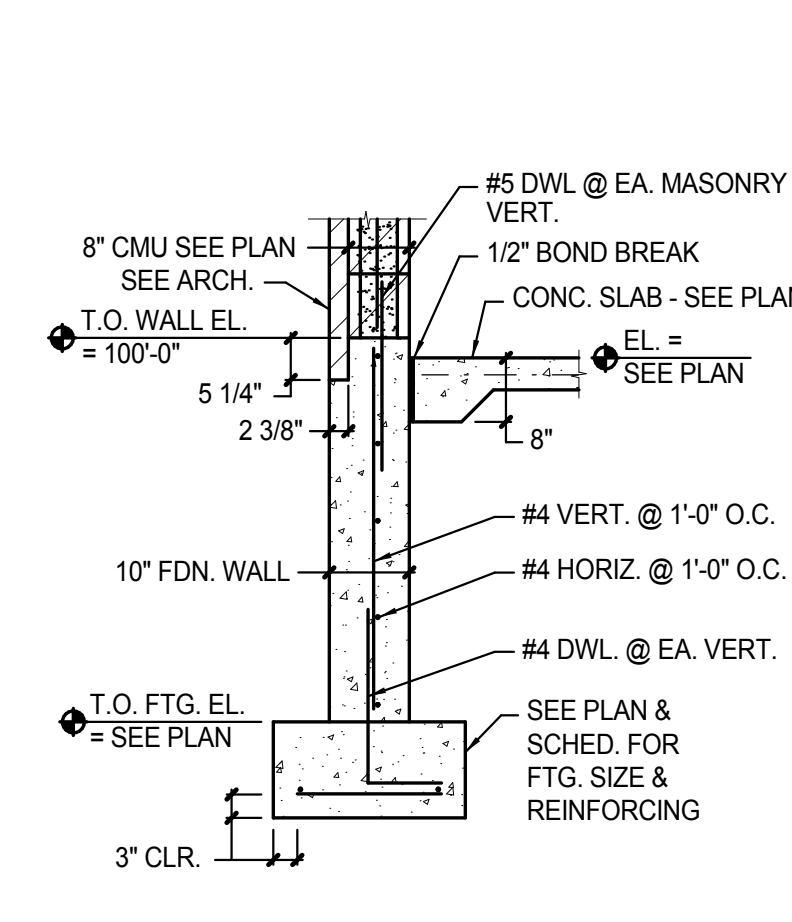
22 EXT FND WALL DETAIL
S3.1 1/2" = 1'-0"



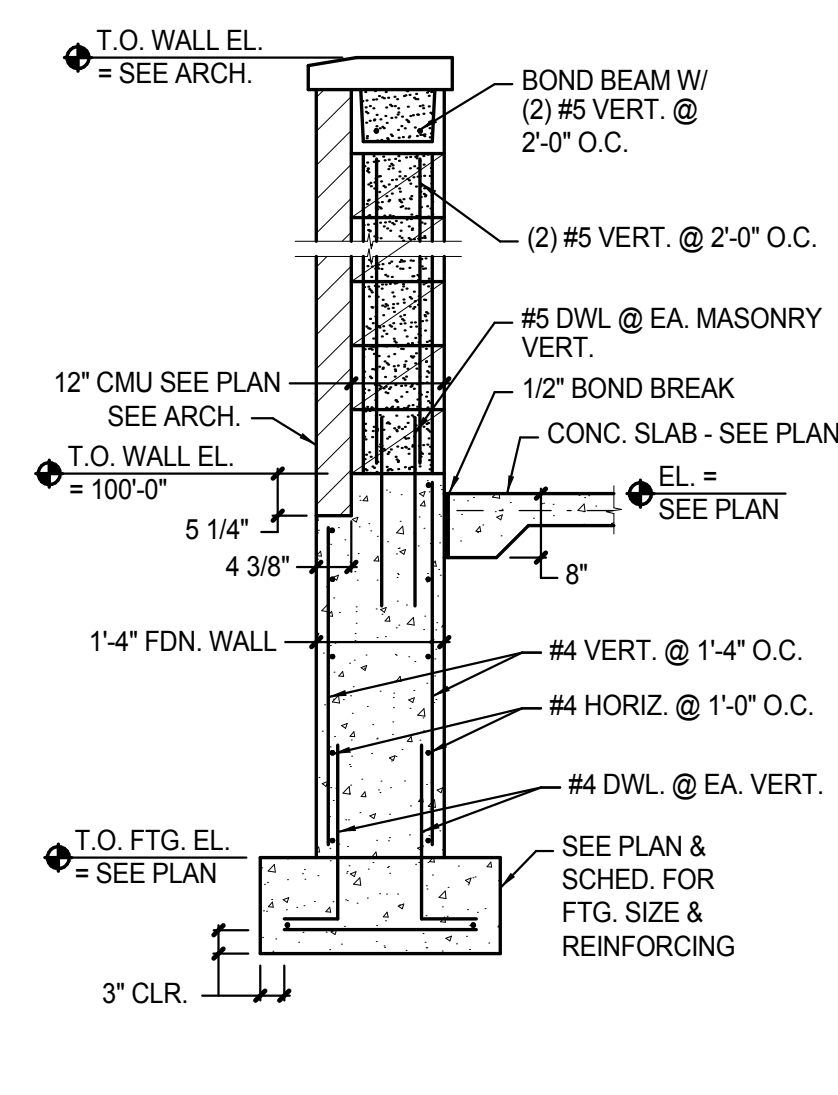
23 PIER DETAIL
S3.1 1/2" = 1'-0"



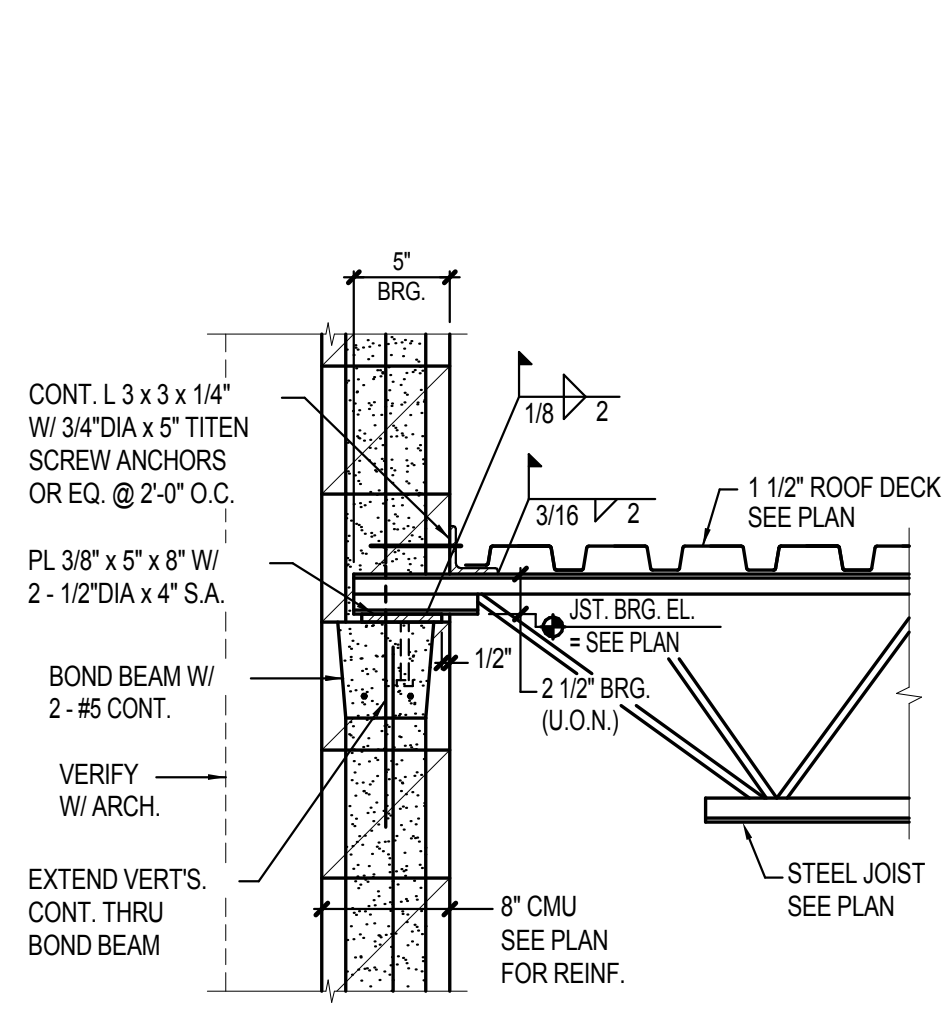
24 EXT FND WALL DETAIL
S3.1 1/2" = 1'-0"



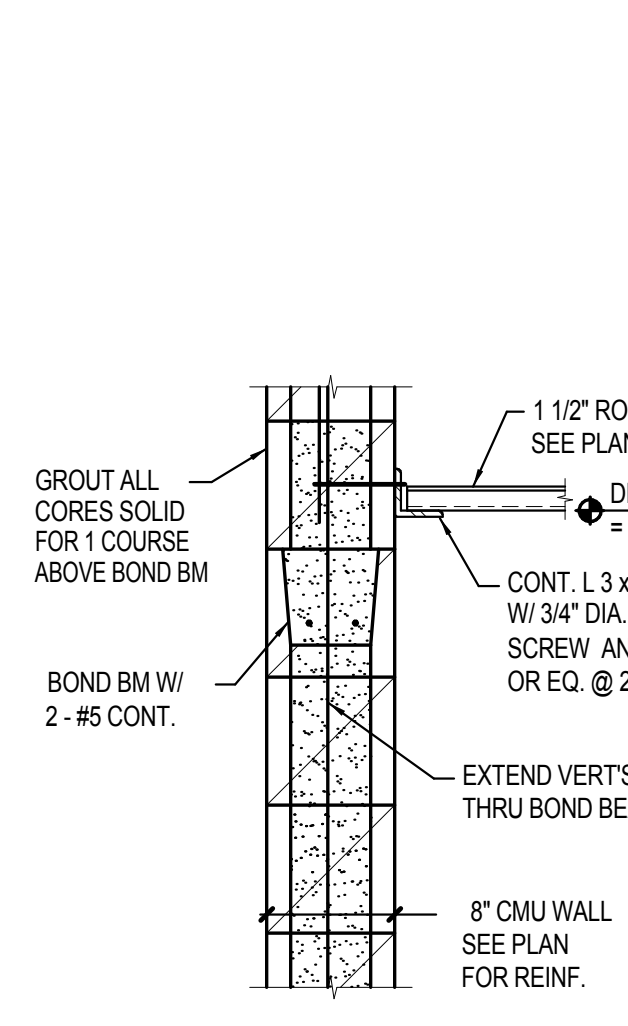
25 EXT FND WALL DETAIL
S3.1 1/2" = 1'-0"



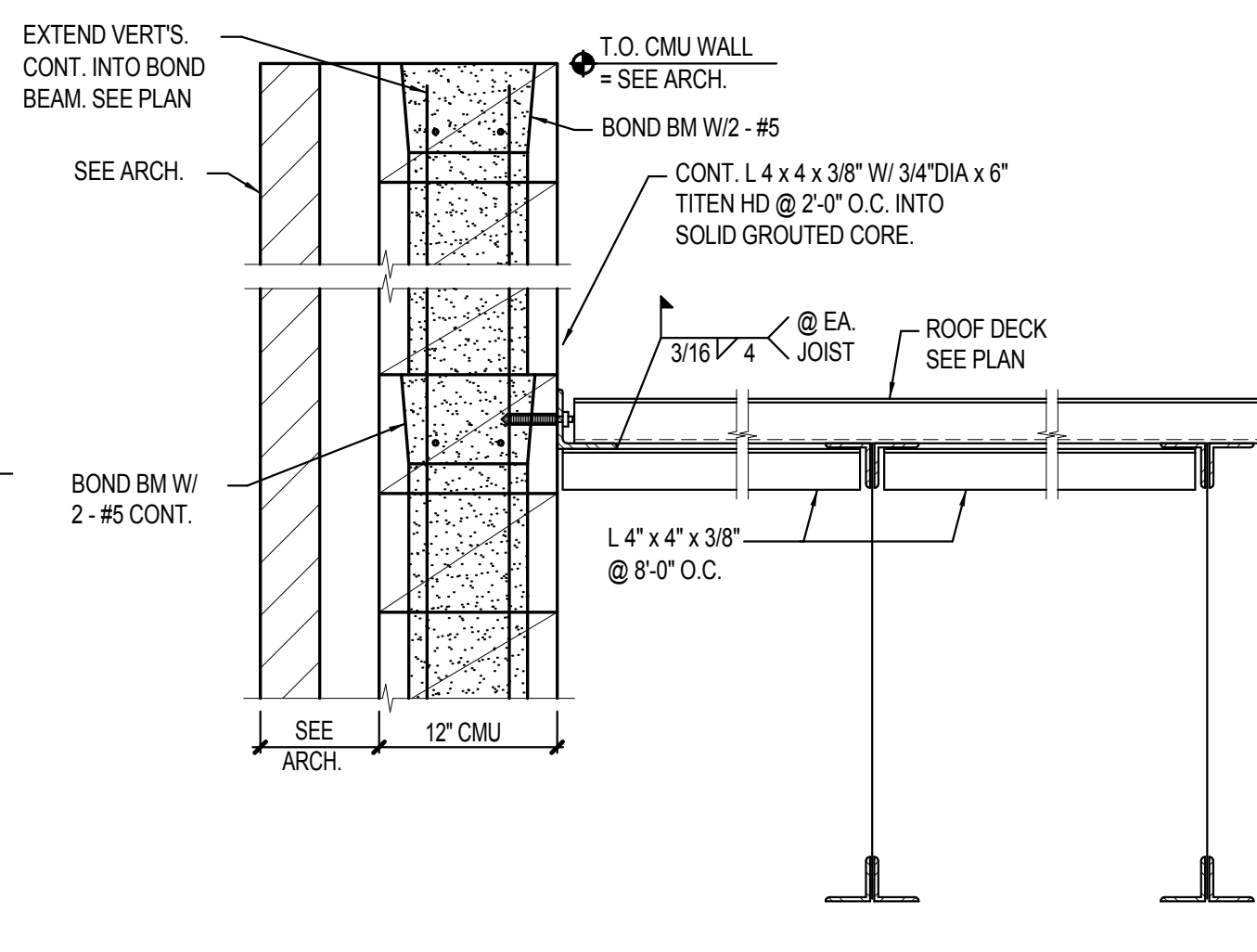
26 SCREEN WALL FND. DETAIL
S3.1 1/2" = 1'-0"



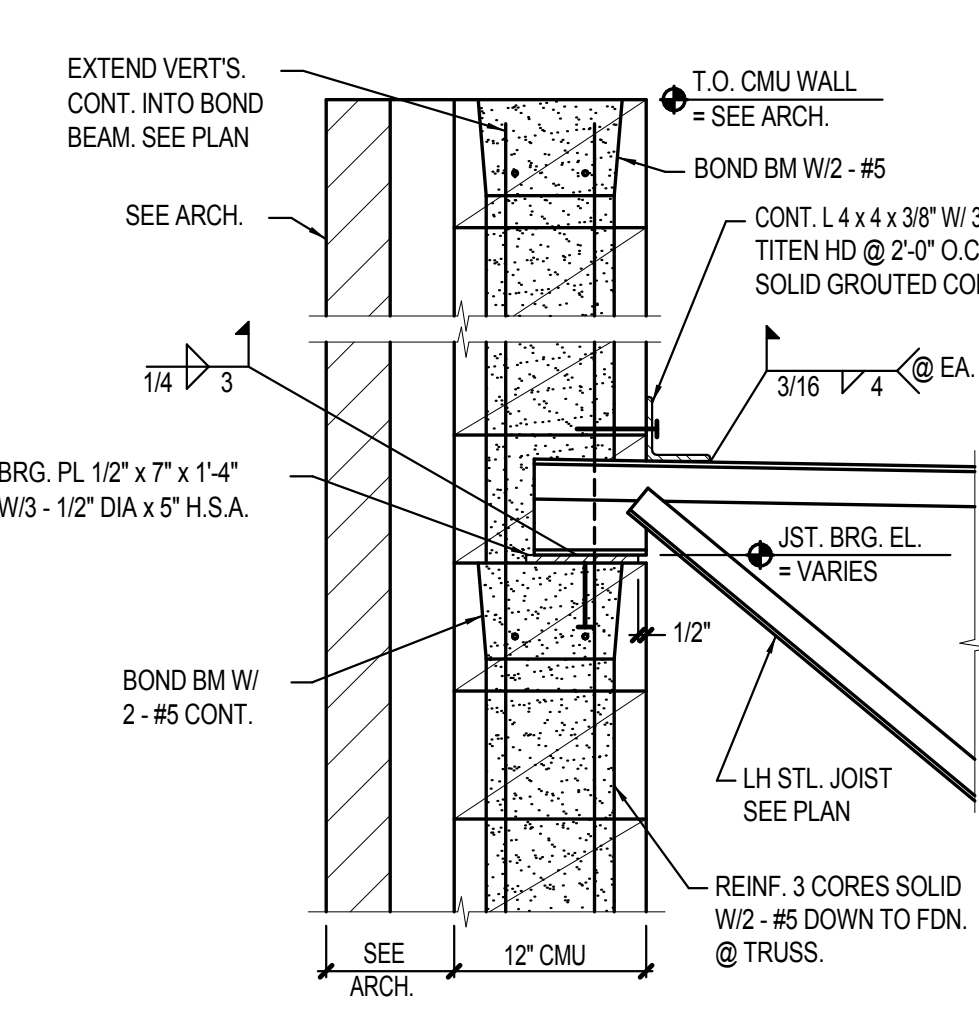
1 JOIST BRG @EXT WALL
S4.2 1" = 1'-0"



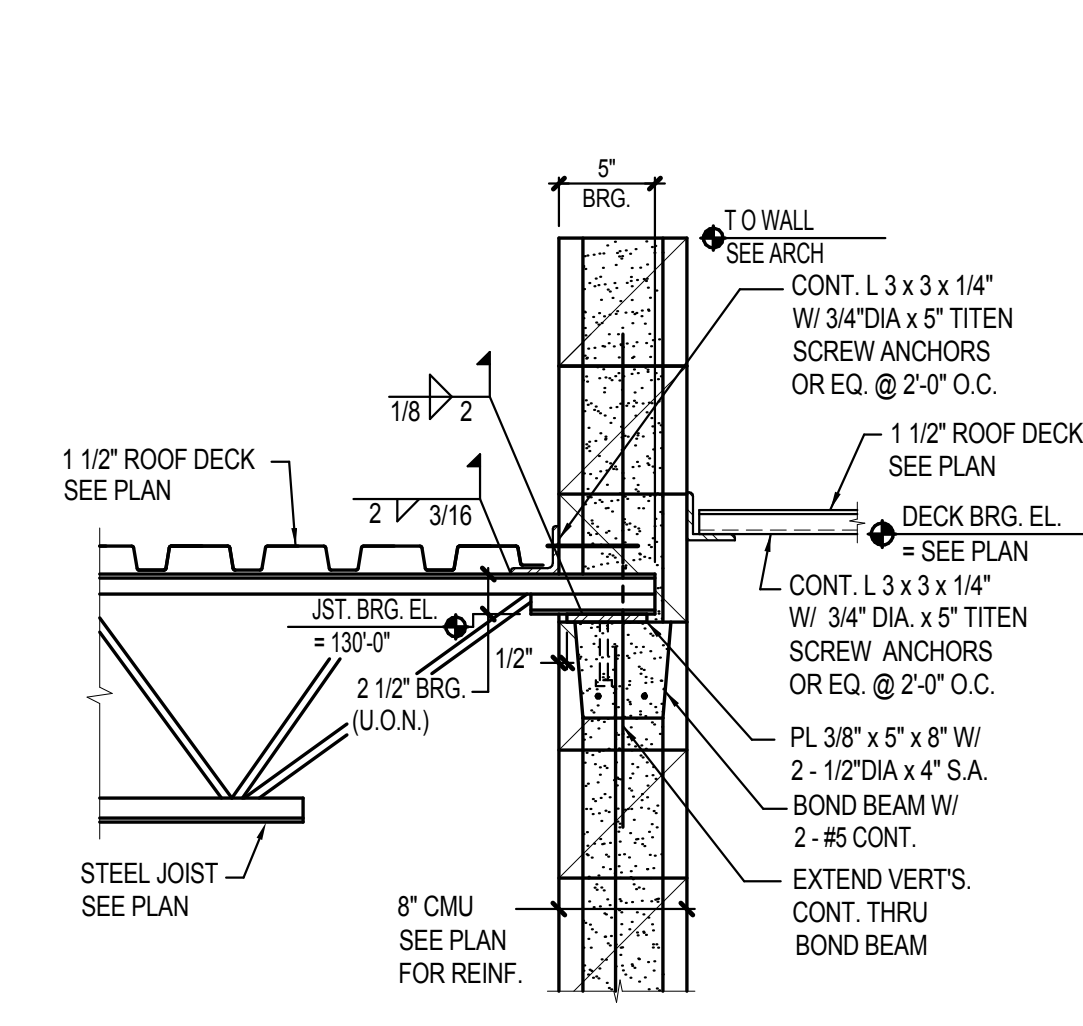
2 DECK BRG DETAIL
S4.2 1" = 1'-0"



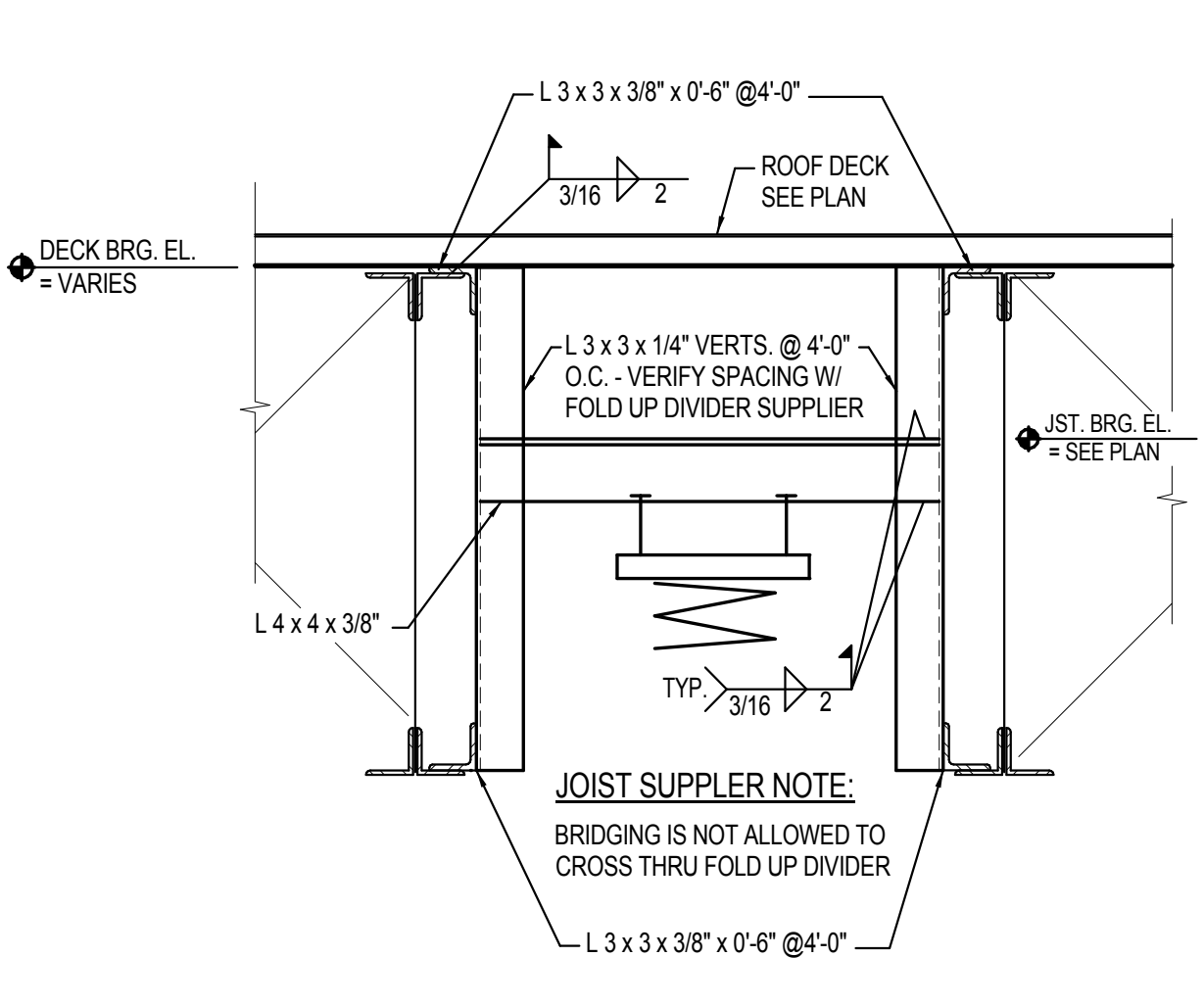
3 DECK BRG @GYMNASIUM DETAIL
S4.2 1" = 1'-0"



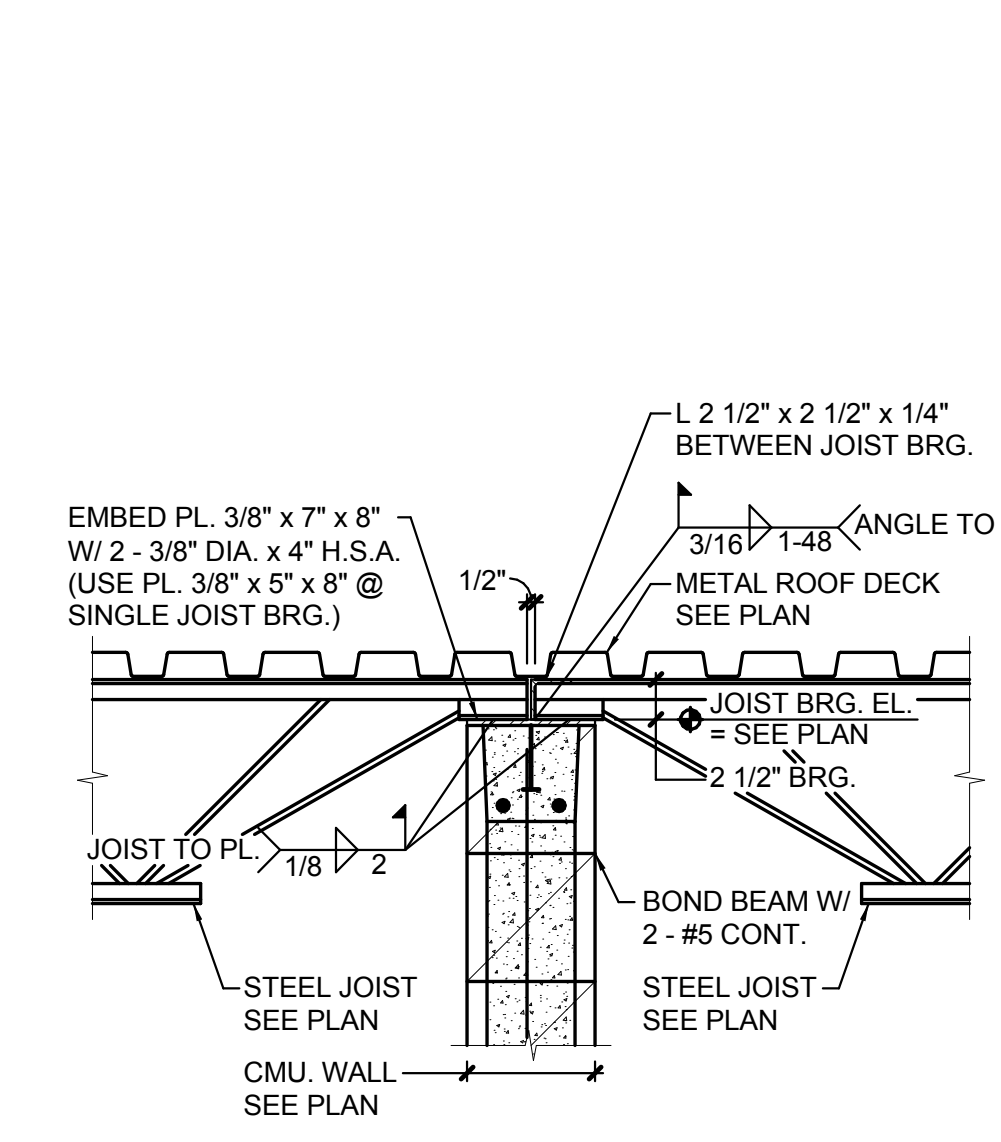
4 DECK BRG @GYMNASIUM DETAIL
S4.2 1" = 1'-0"



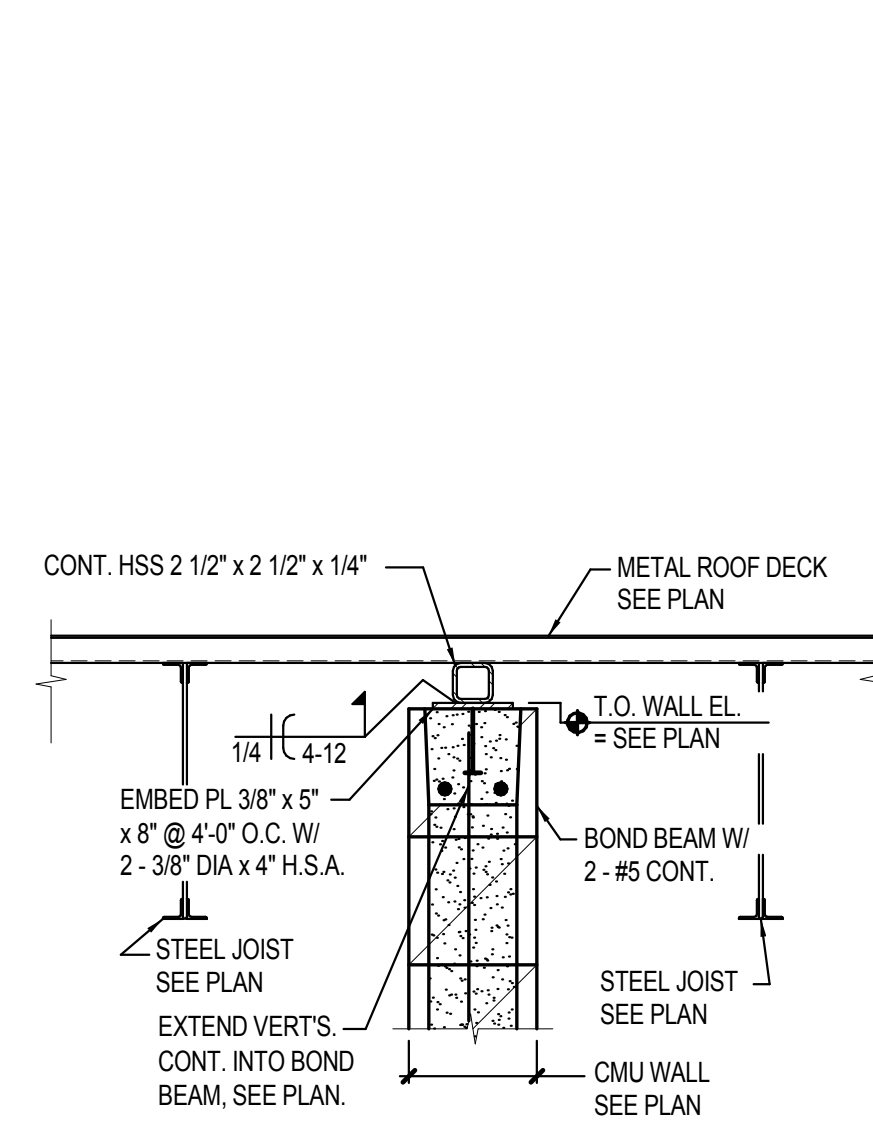
5 JOIST BRG DETAIL
S4.2 1" = 1'-0"



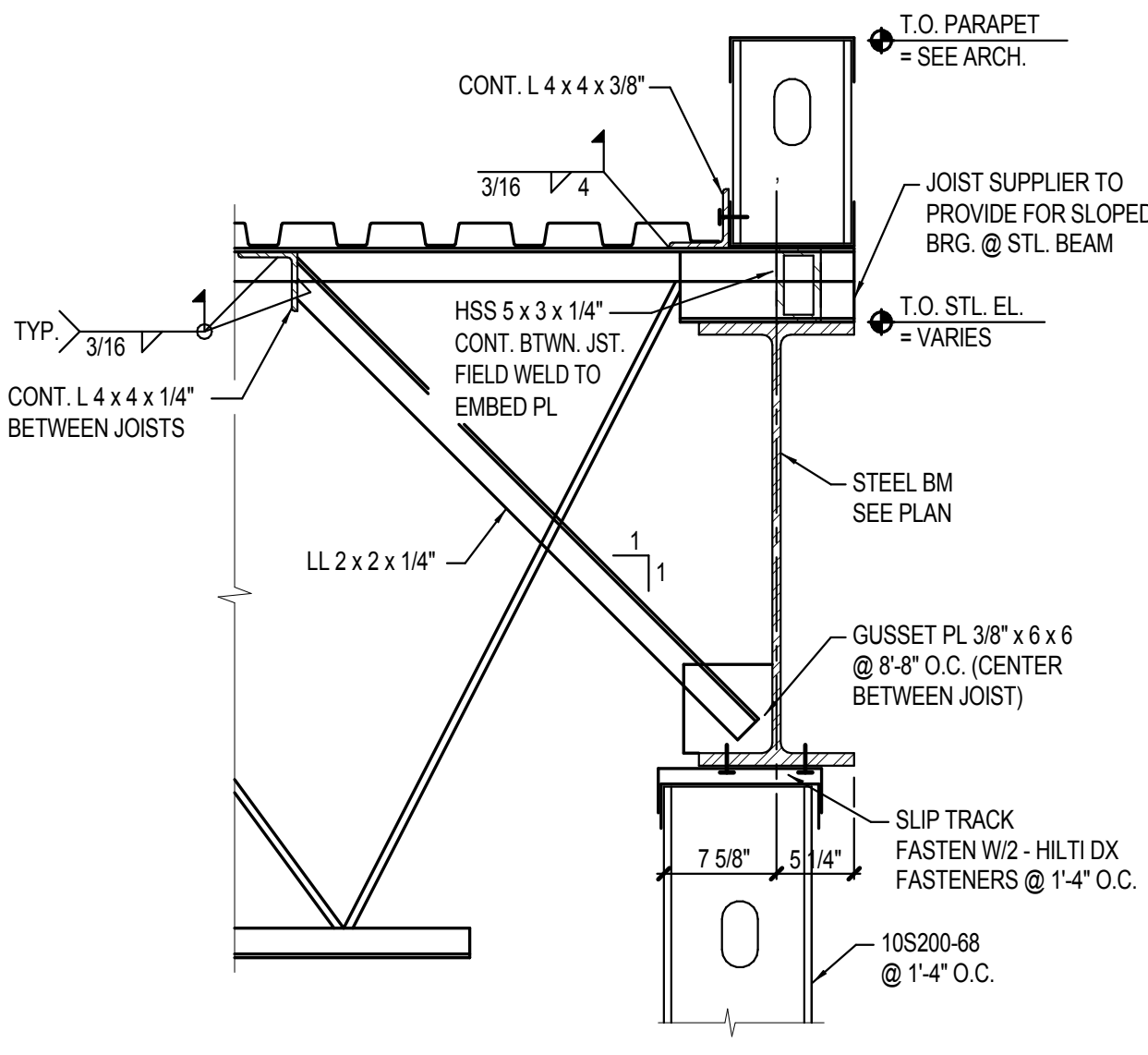
6 GYM DIVIDER SUPPORT DETAIL
S4.2 1" = 1'-0"



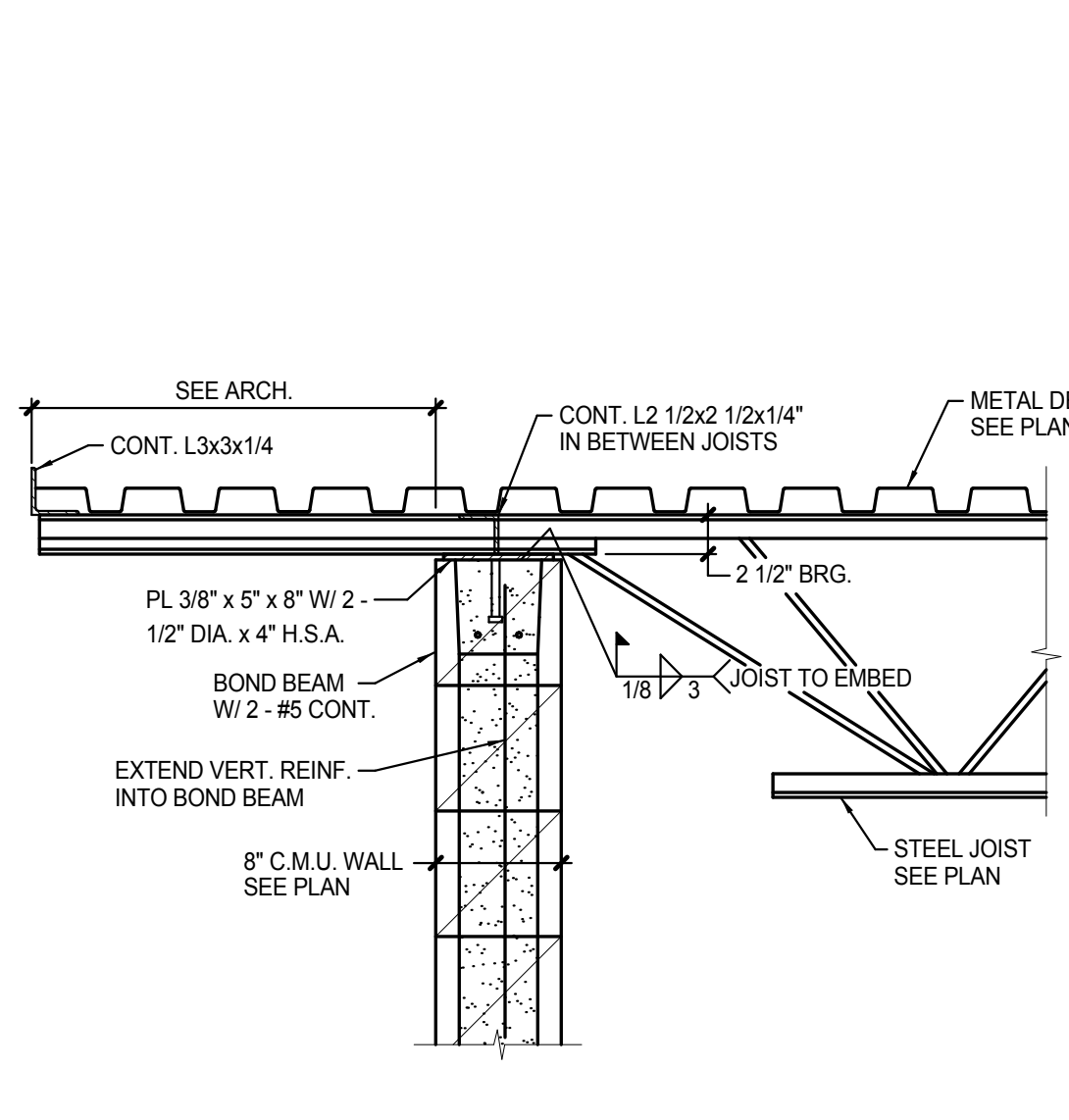
7 JOIST BRG DETAIL
S4.2 1" = 1'-0"



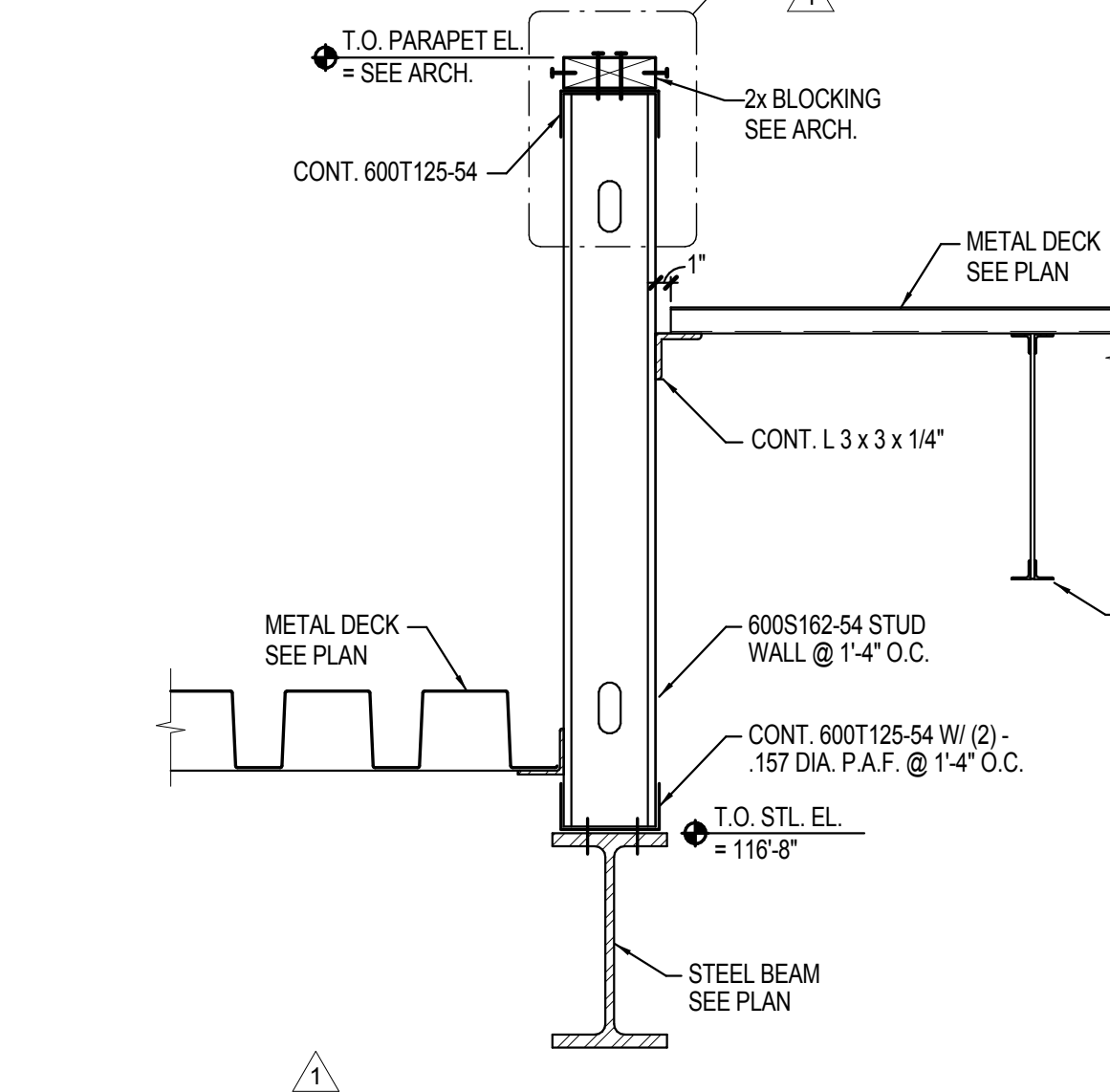
8 DECK BRG DETAIL
S4.2 1" = 1'-0"



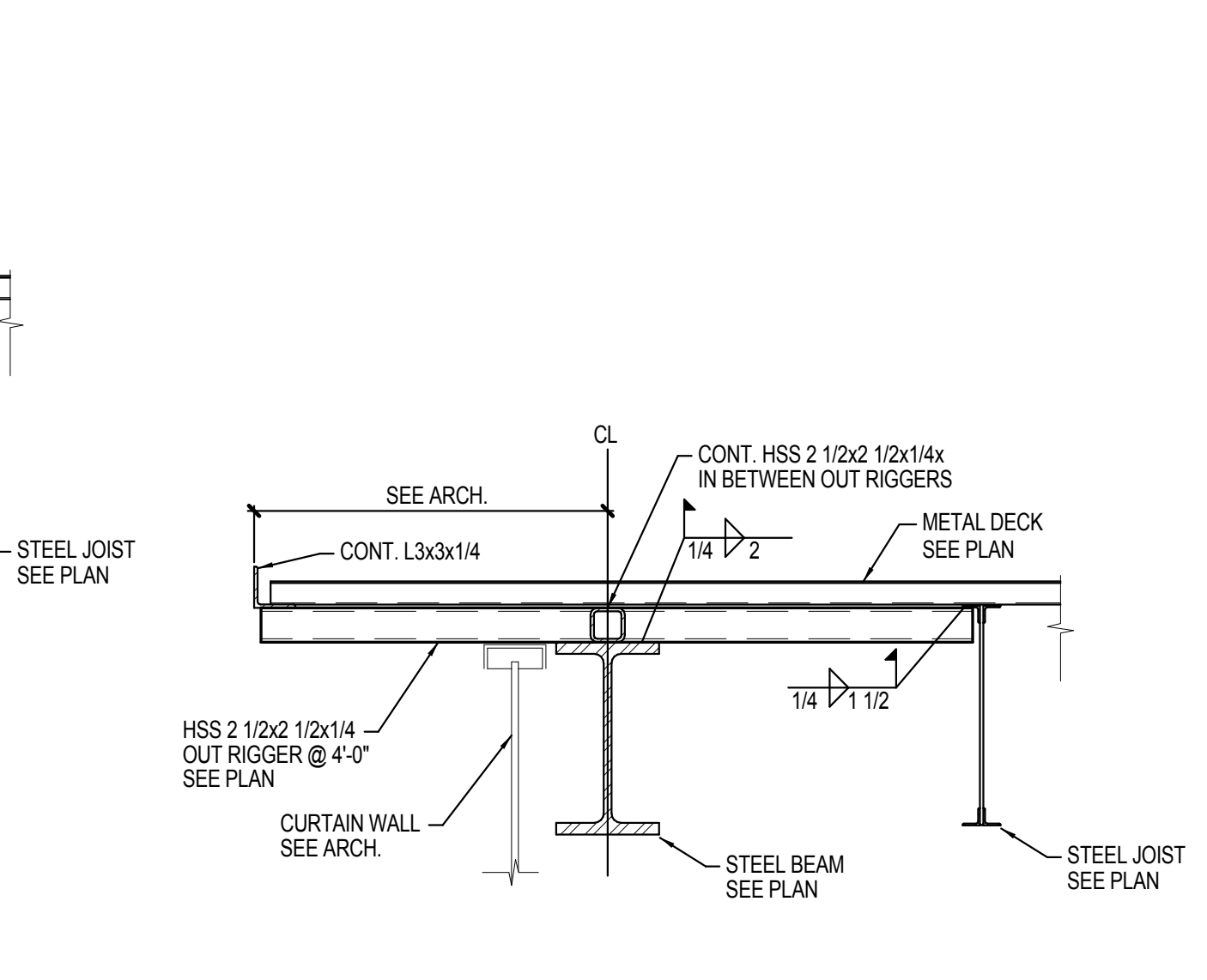
9 JOIST BRG DETAIL
S4.2 1" = 1'-0"



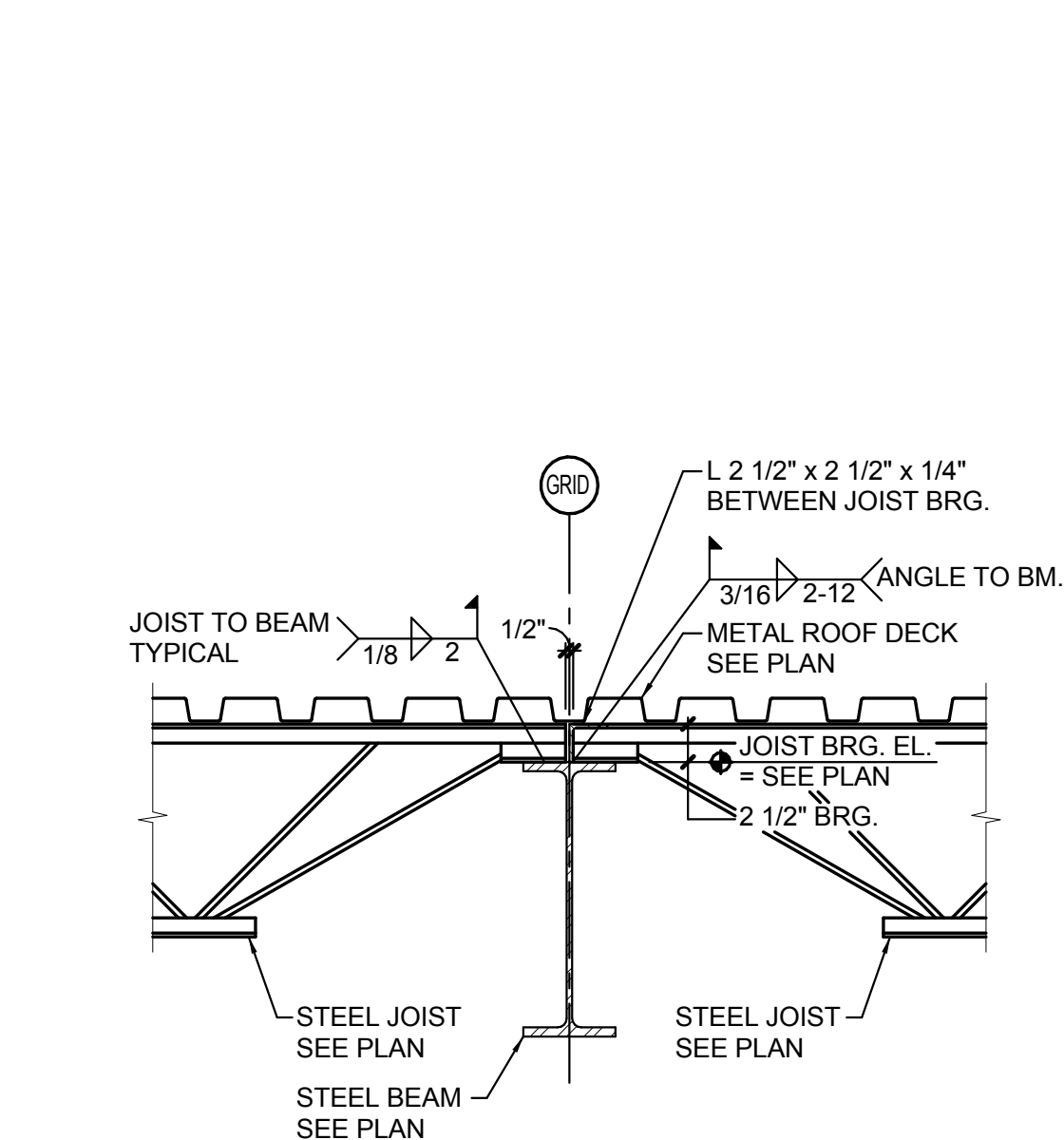
10 JOIST BRG DETAIL
S4.2 1" = 1'-0"



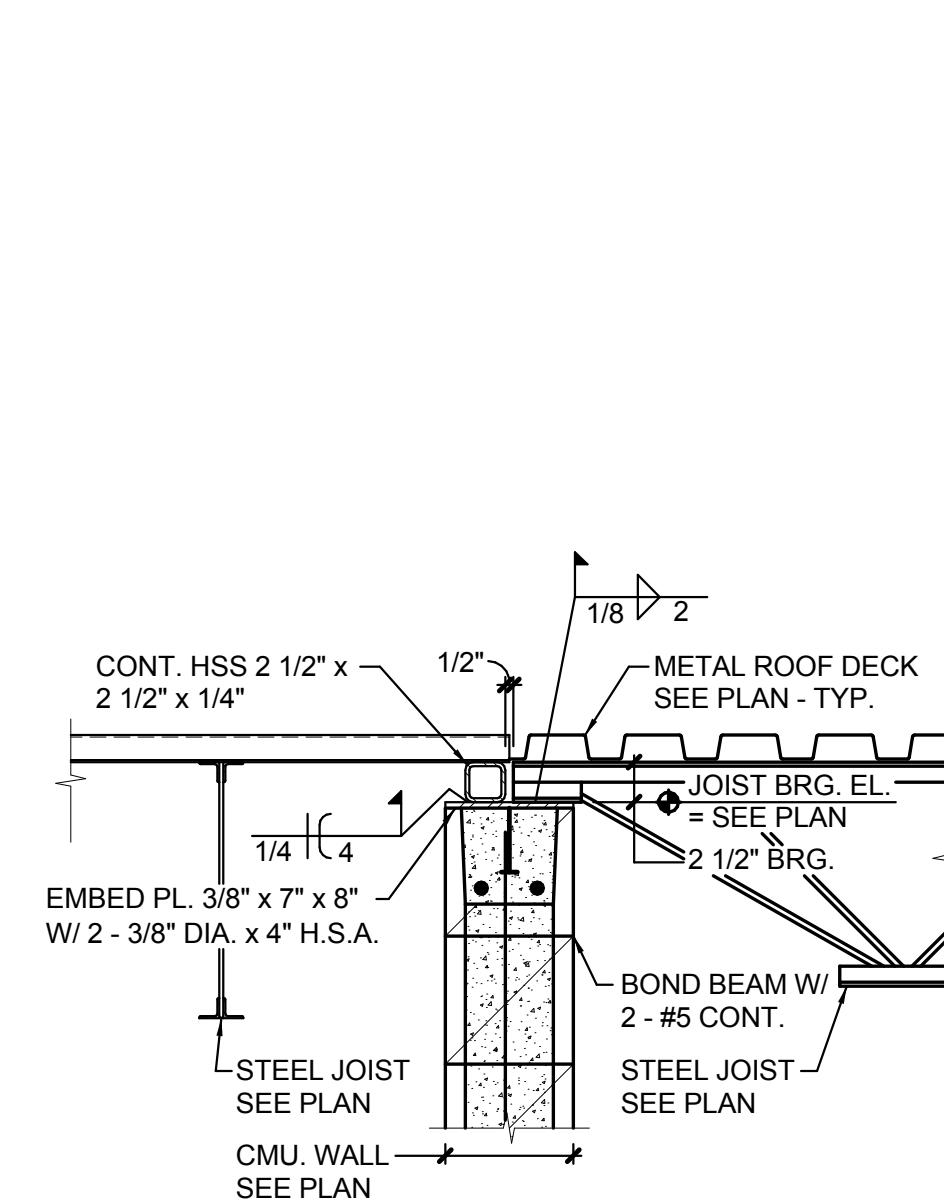
11 JOIST BRG DETAIL
S4.2 1" = 1'-0"



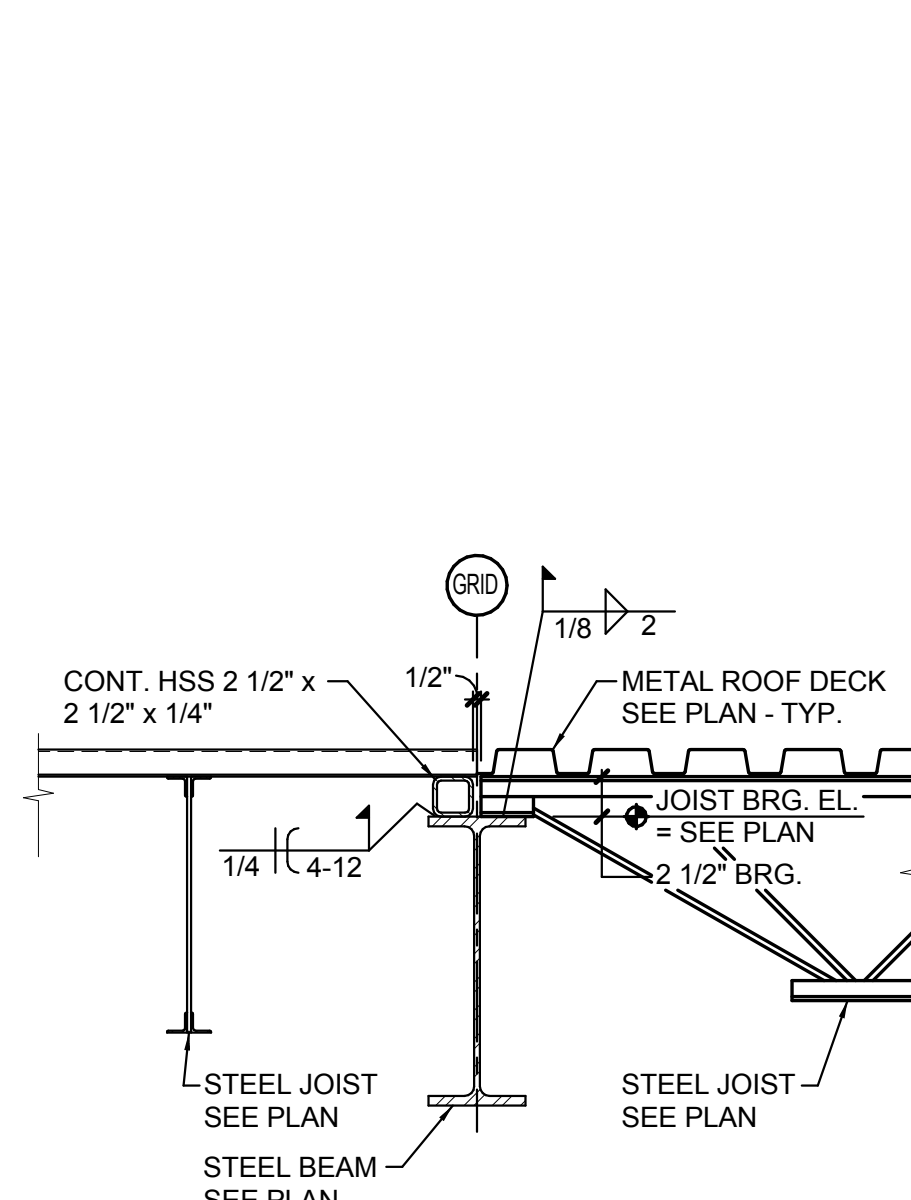
12 JOIST BRG DETAIL
S4.2 1" = 1'-0"



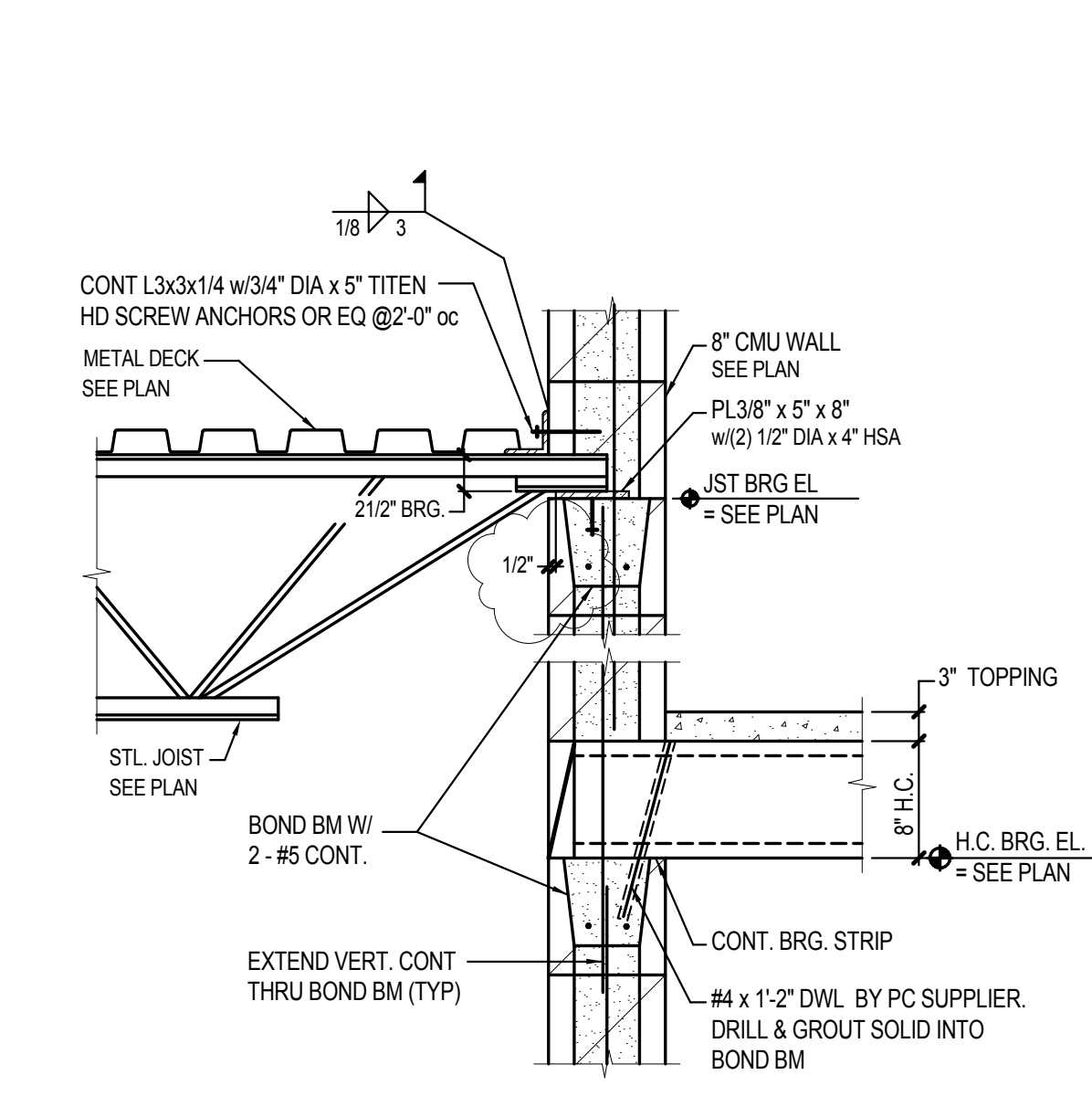
13 JOIST BRG DETAIL
S4.2 1" = 1'-0"



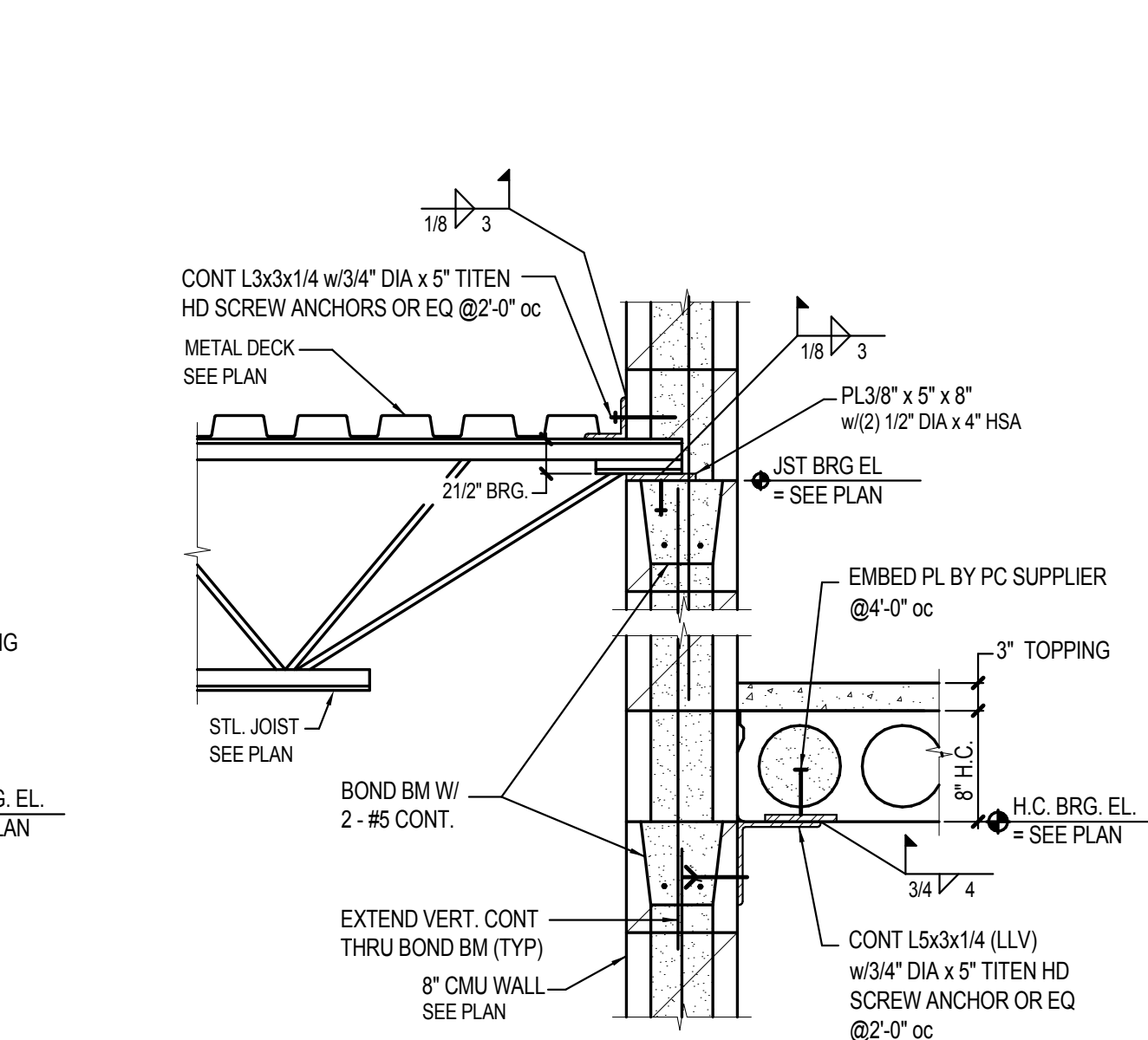
14 DECK/JOIST BRG DETAIL
S4.2 1" = 1'-0"



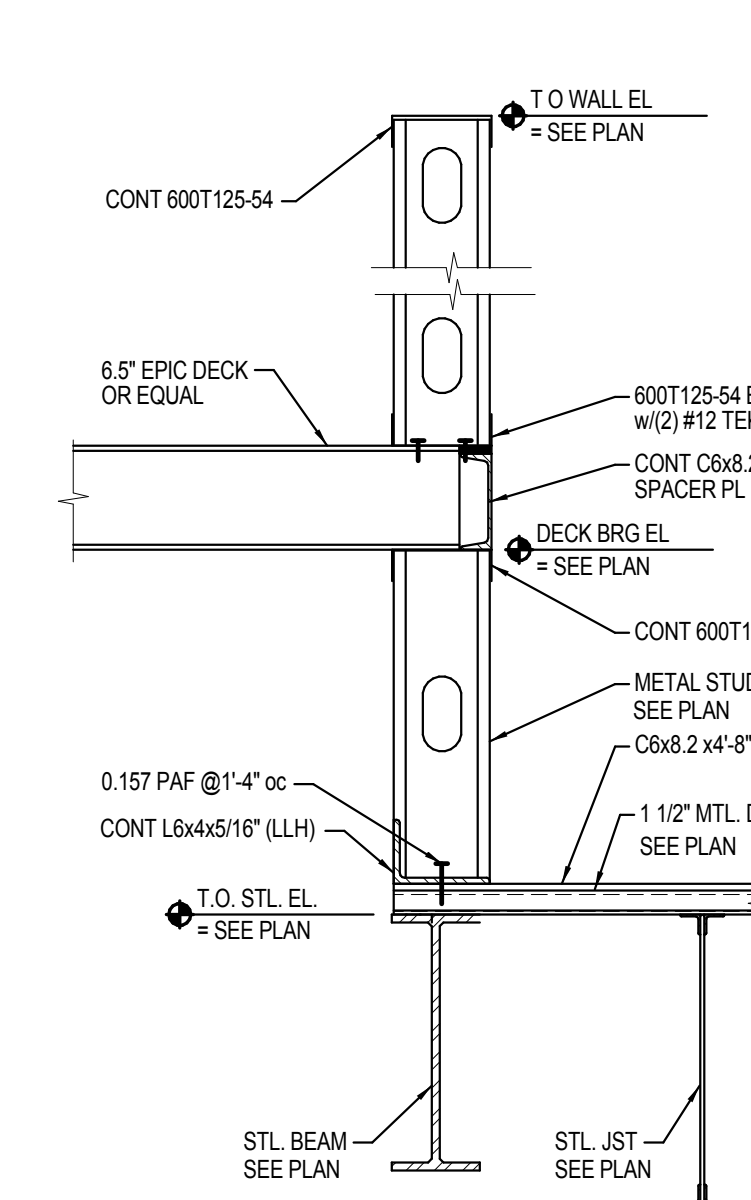
15 DECK/JOIST BRG DETAIL
S4.2 1" = 1'-0"



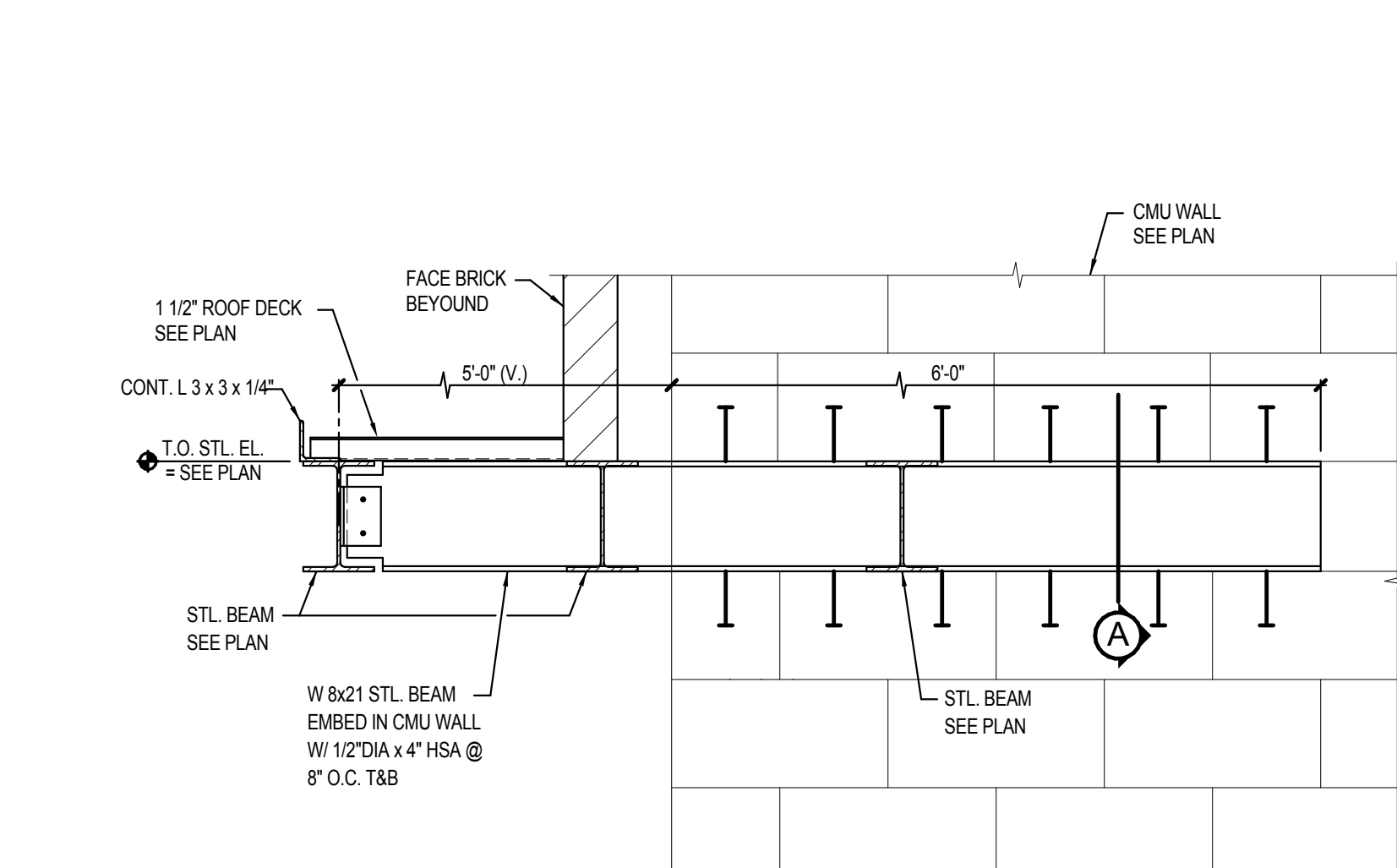
16 HC BRG DETAIL
S4.2 1" = 1'-0"



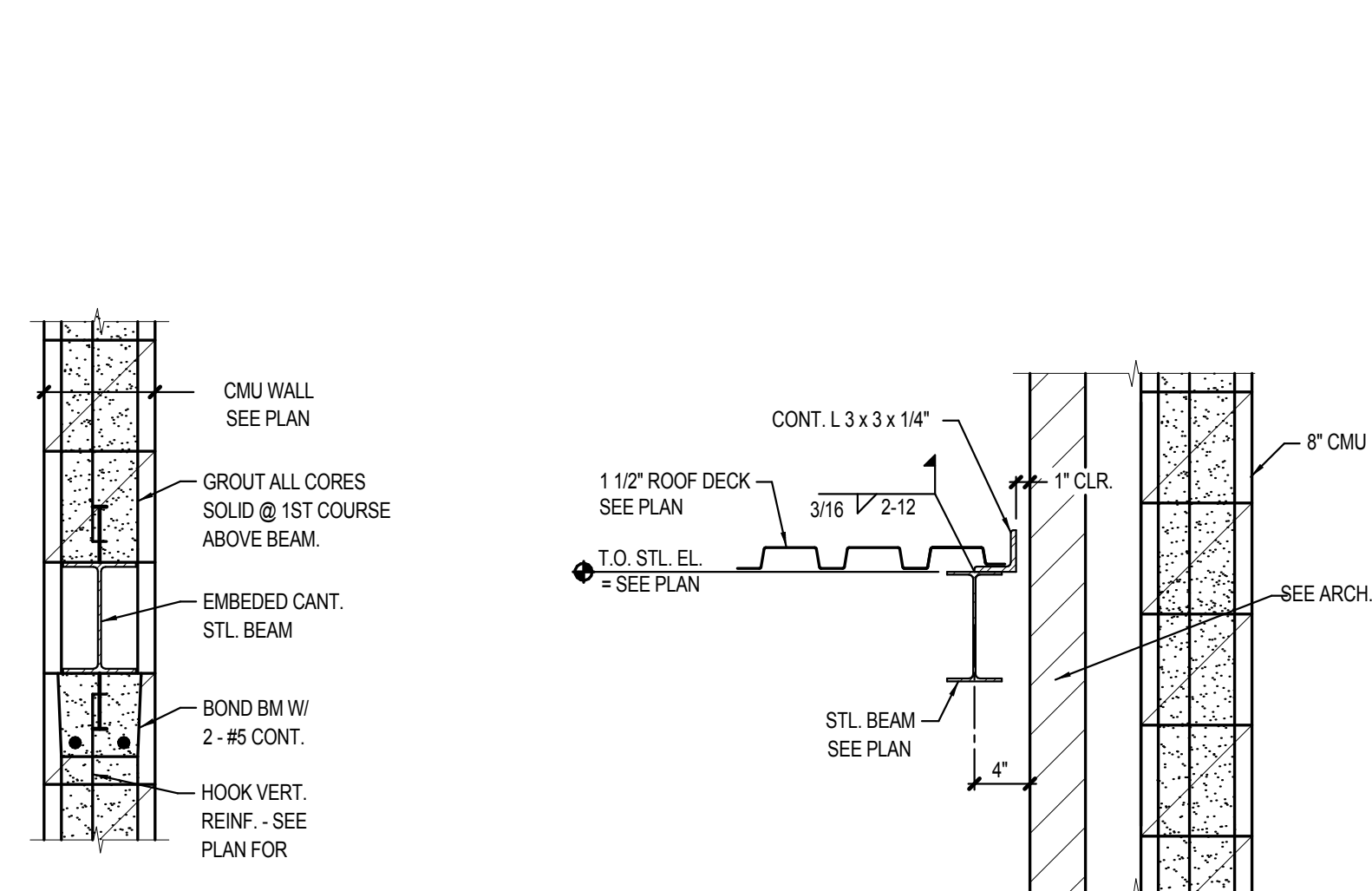
17 HC BRG DETAIL
S4.2 1" = 1'-0"



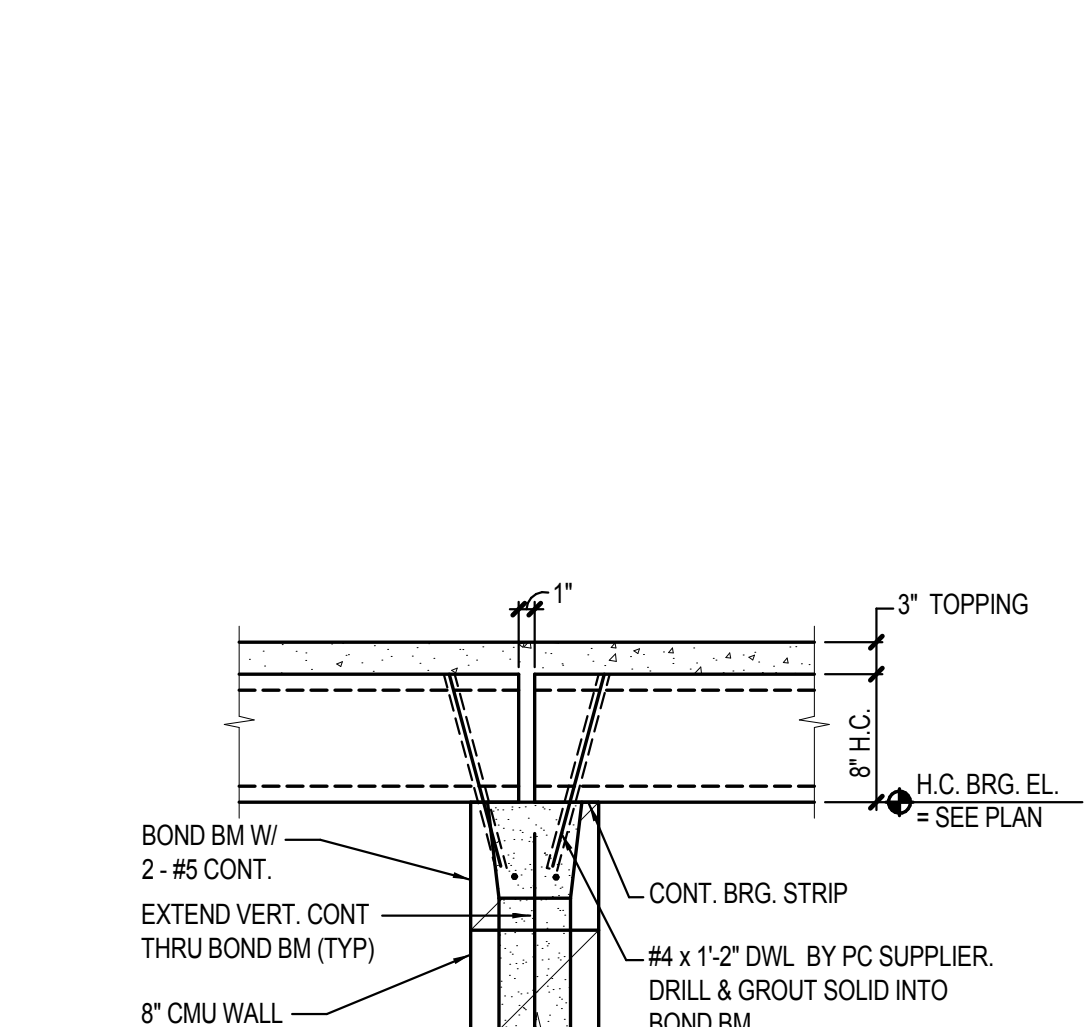
18 DECK BRG DETAIL
S4.2 1" = 1'-0"



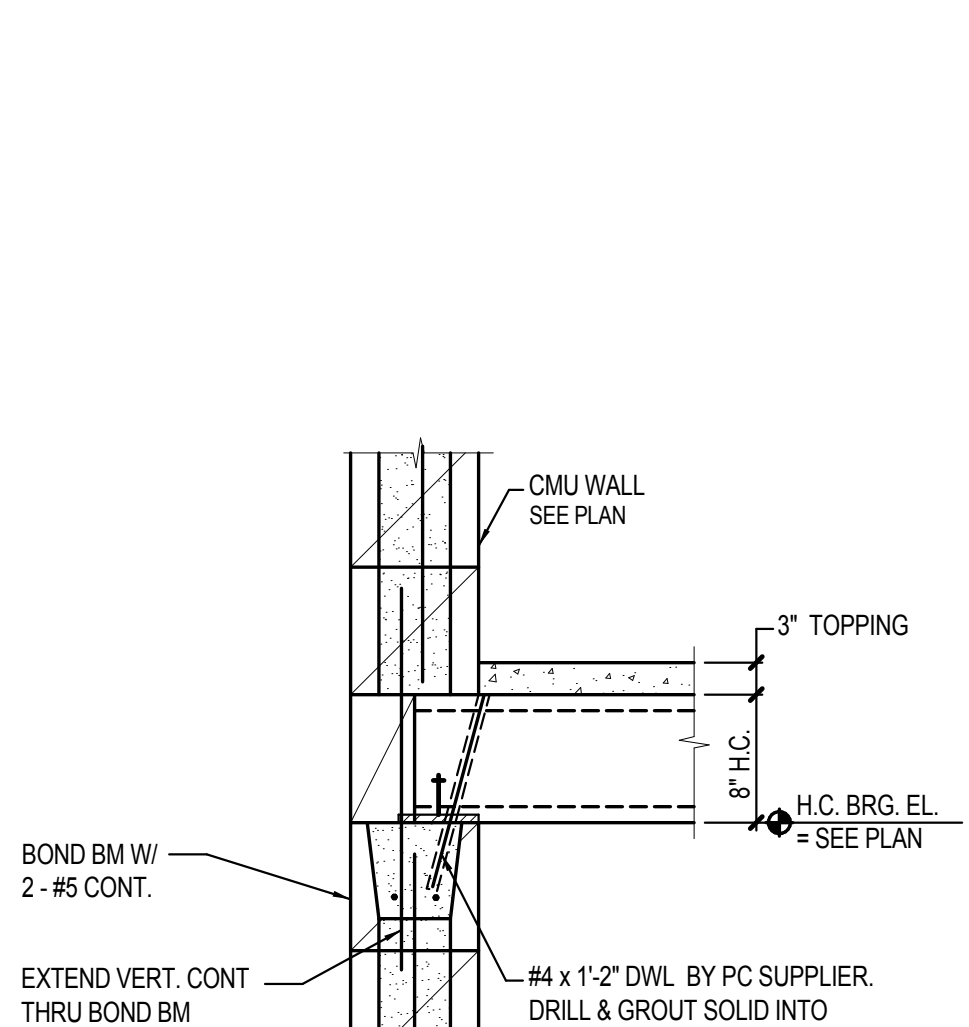
19 BEAM BRG DETAIL
S4.2 1" = 1'-0"



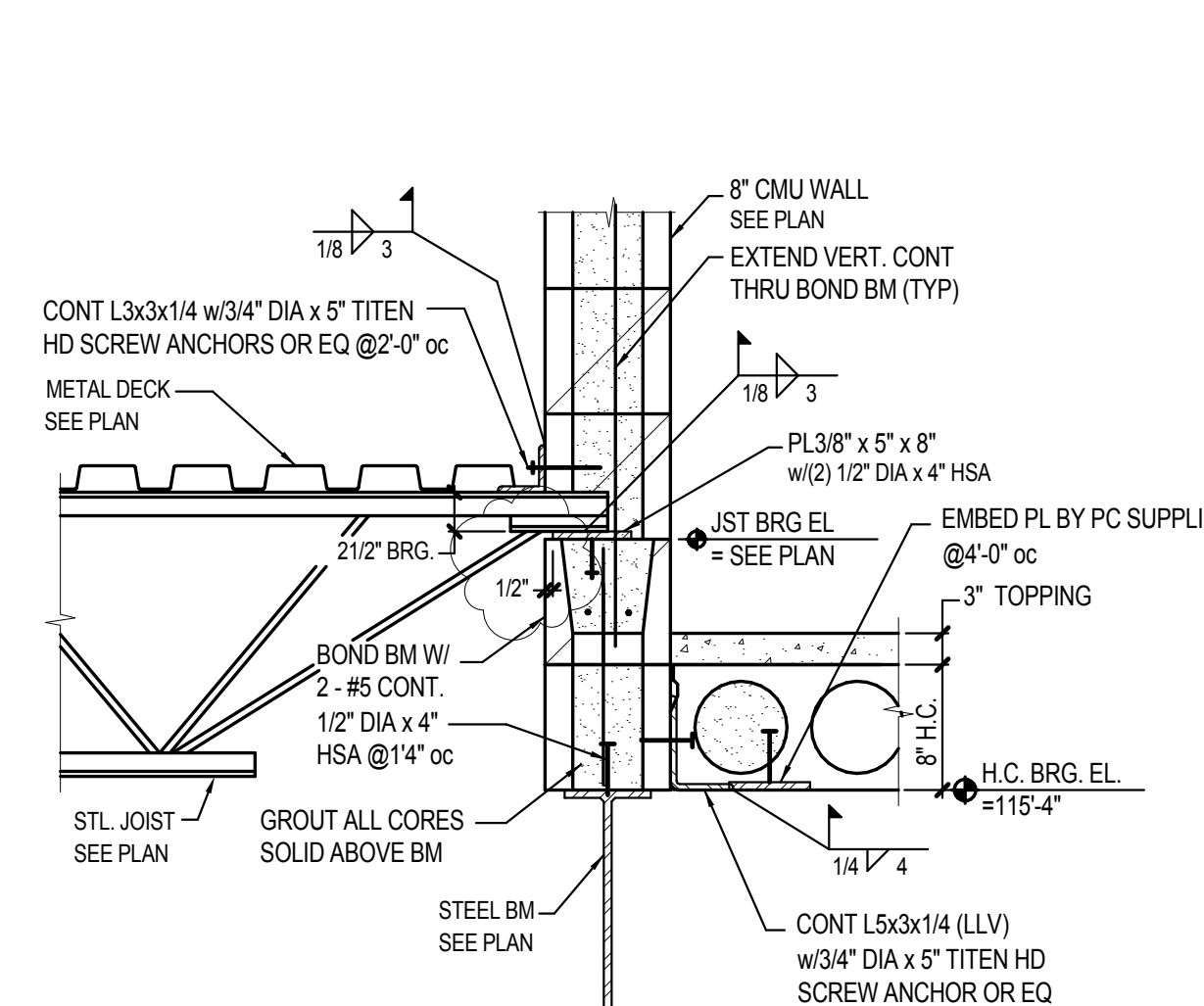
20 DECK BRG DETAIL
S4.2 1" = 1'-0"



21 HC BRG DETAIL
S4.2 1" = 1'-0"



22 HC BRG DETAIL
S4.2 1" = 1'-0"



23 HC BRG DETAIL
S4.2 1" = 1'-0"

04/14/2016 ADDENDUM #1
04/18/2016 ADDENDUM #2

BID GROUP 1

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
Signature: [Signature]
Date: 04/18/2016 Registration No. 41855

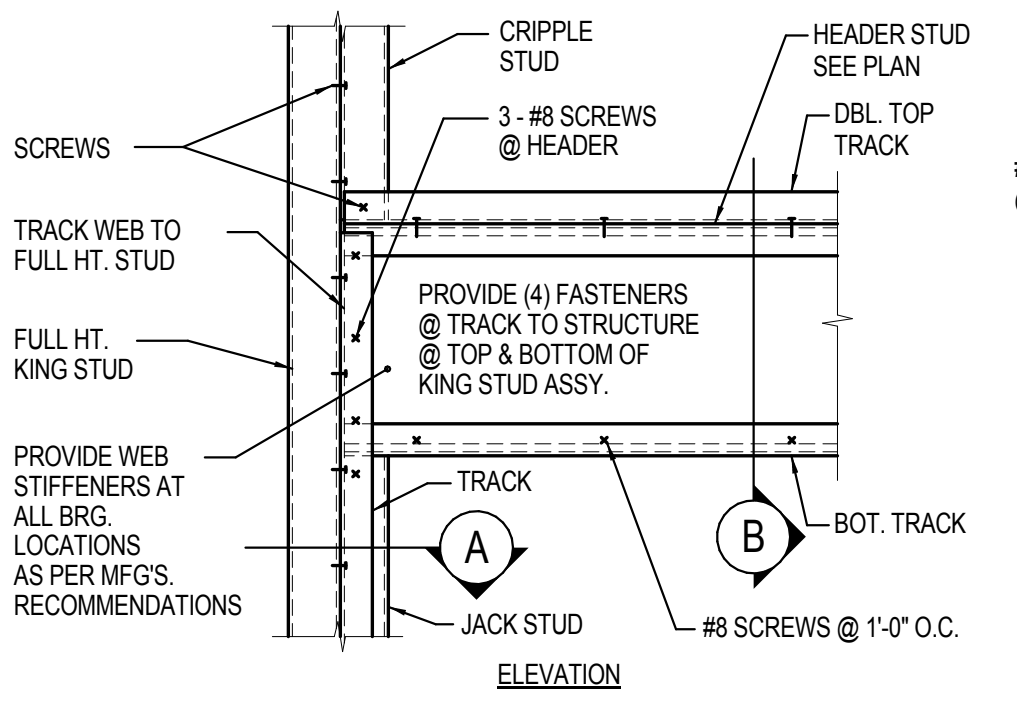


MOORHEAD AREA PUBLIC SCHOOLS
NEW ELEMENTARY SCHOOL
4400 24th Avenue S
Moorhead, MN 56560

FRAMING DETAILS

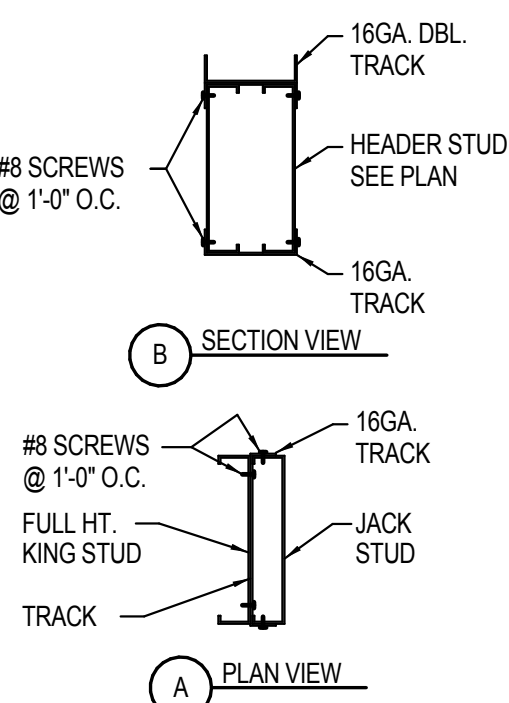
Project No.: 15-032
Date: 04/18/2016

S4.2

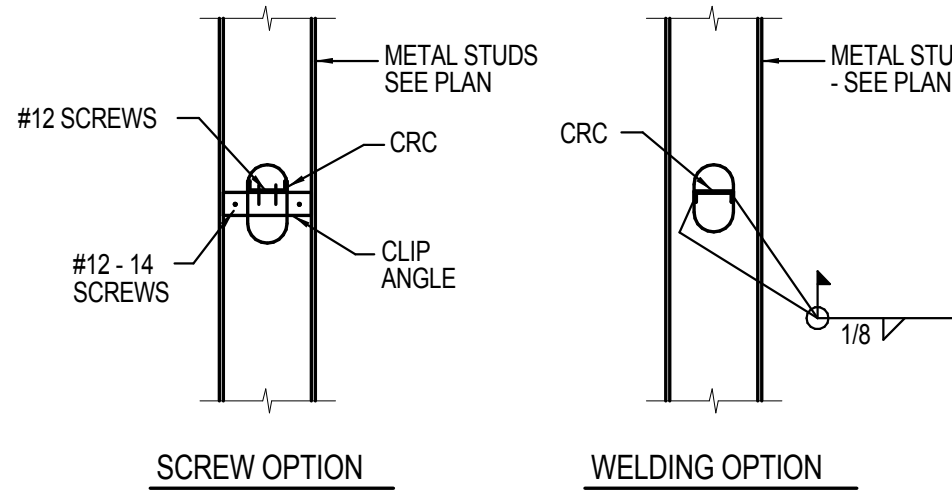


- NOTES:
- SEE ARCH. DWGS. FOR HEADER LOCATIONS.
 - TRACK, CRIPPLE STUDS, JACK STUDS & KING STUDS TO BE SAME SIZE & GAGE AS WALL FRAMING (U.O.N.)

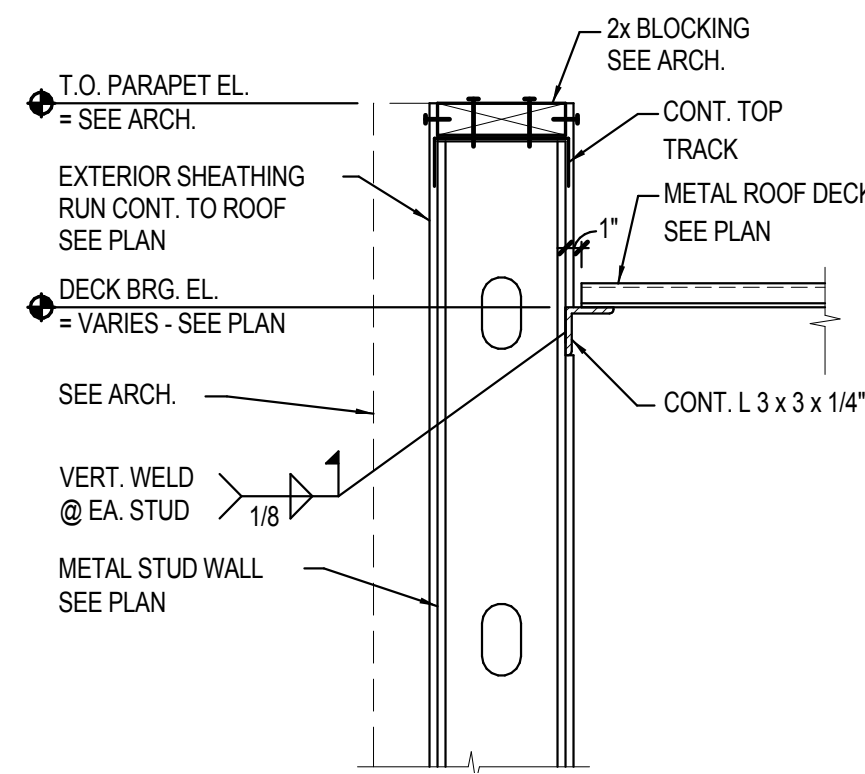
1 TYP STEEL STUD HEADER DETAIL
S4.4 1" = 1'-0"



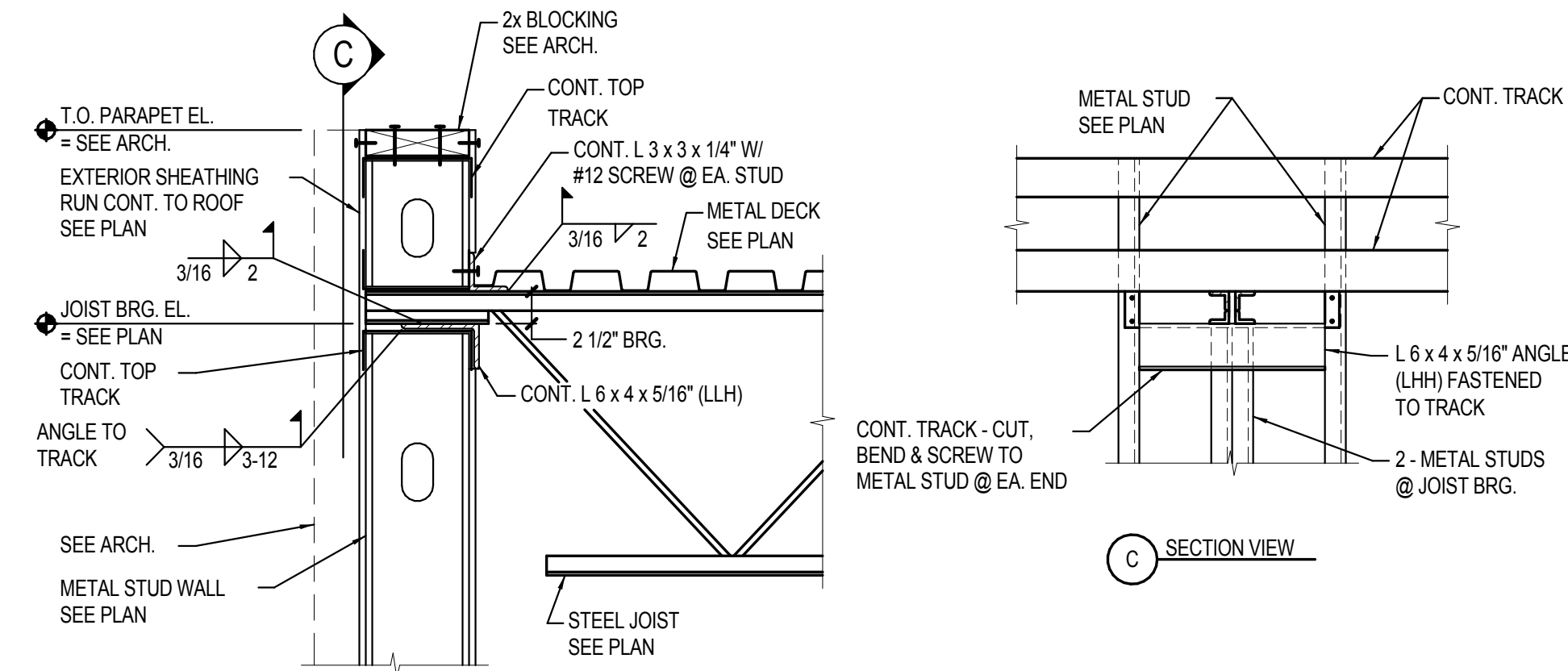
2 TYP BRIDGING DETAIL
S4.4 NO SCALE



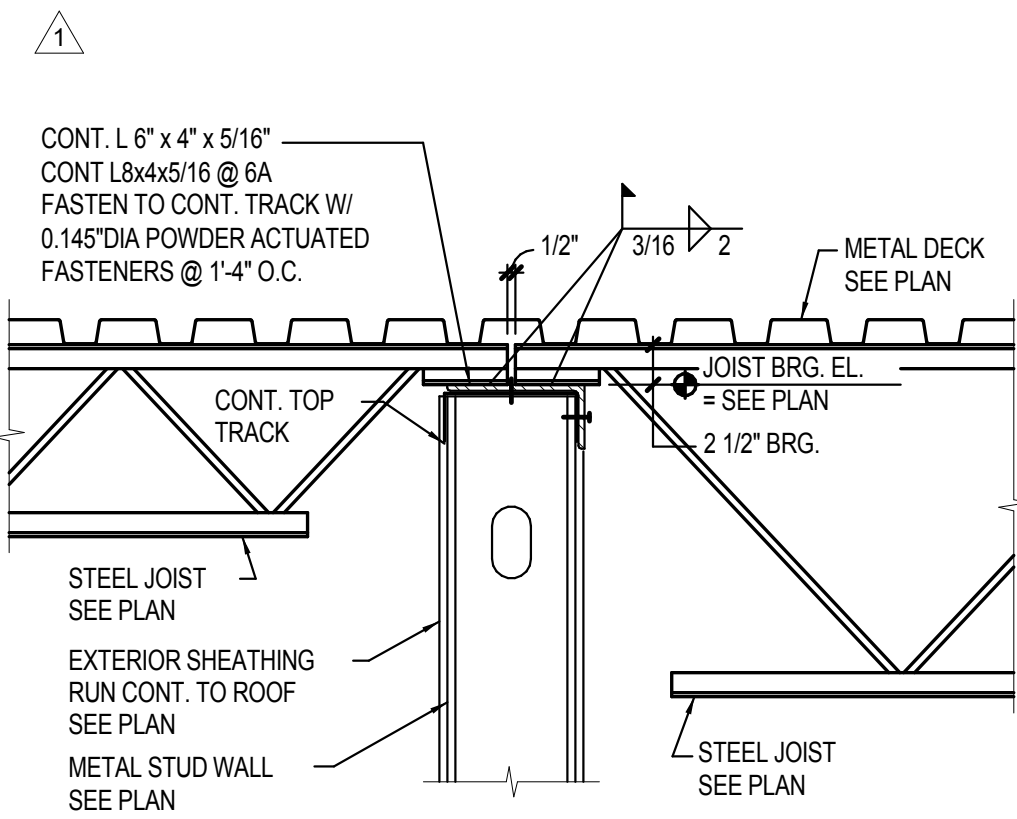
3 SLIP CONN @ MTL STUD WALL
S4.4 1 1/2" = 1'-0"



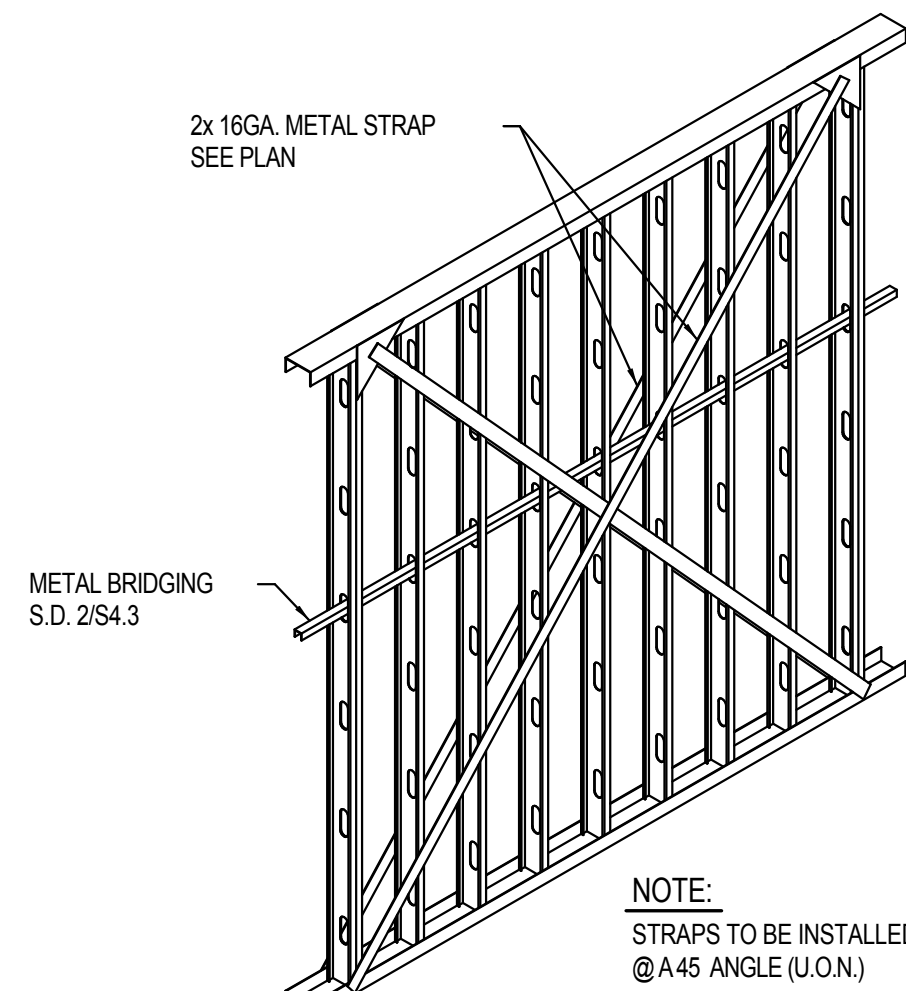
4 TYP DECK BRG DETAIL
S4.4 1" = 1'-0"



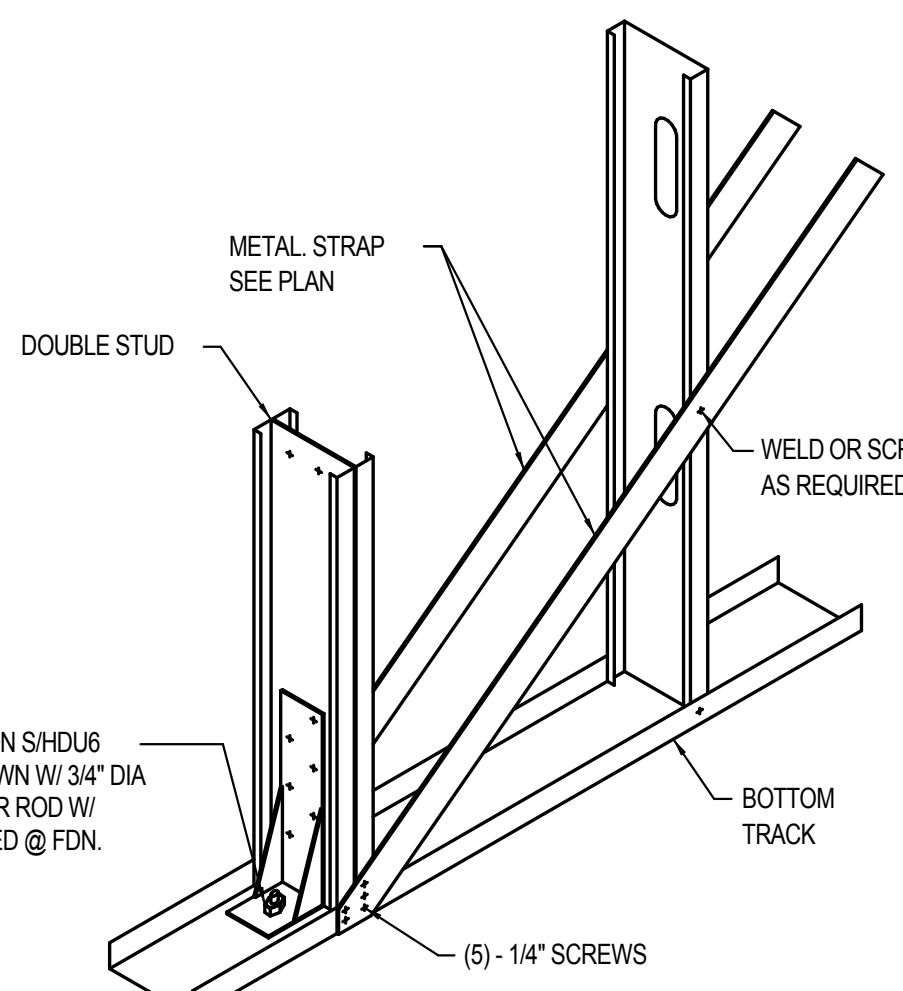
5 JOIST BRG DETAIL
S4.4 1" = 1'-0"



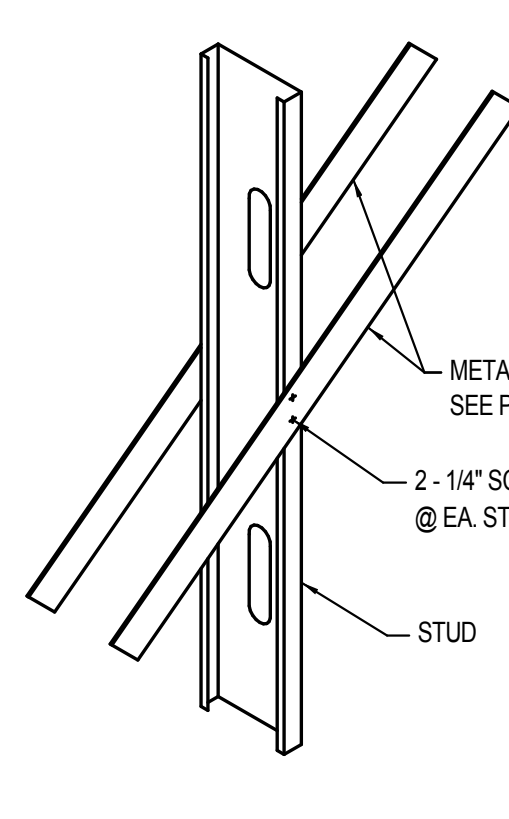
6A JOIST BRG DETAIL
S4.4 1" = 1'-0"



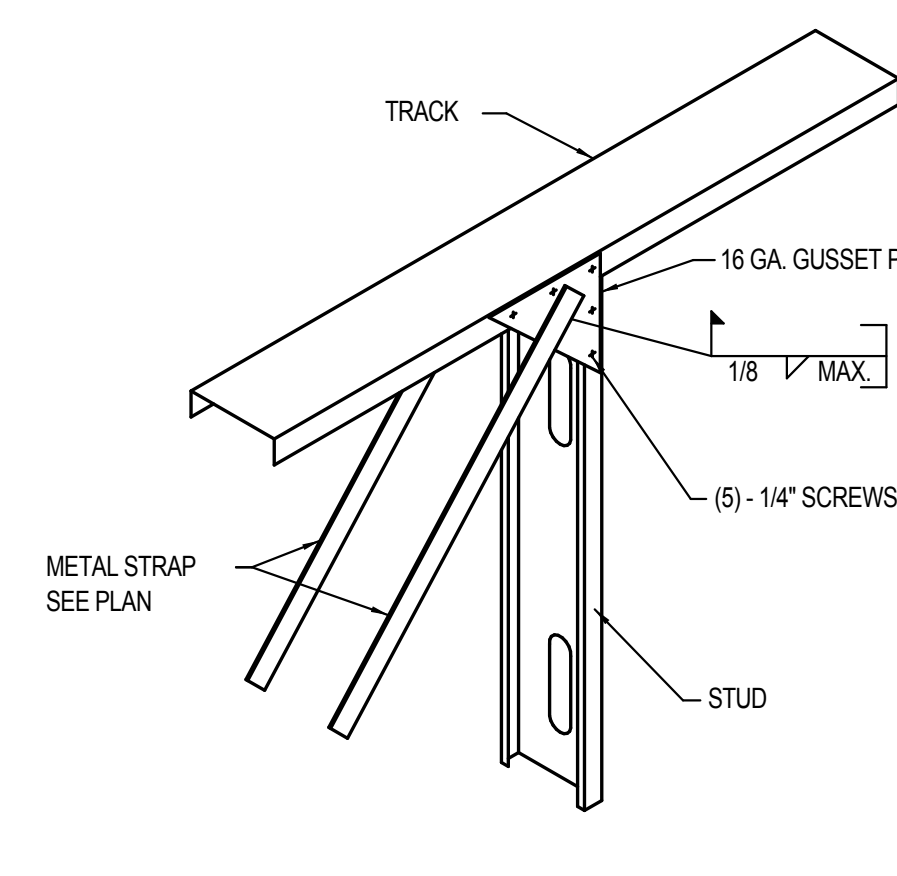
7 TYP SHEAR WALL STRAP DETAIL
S4.4 NO SCALE



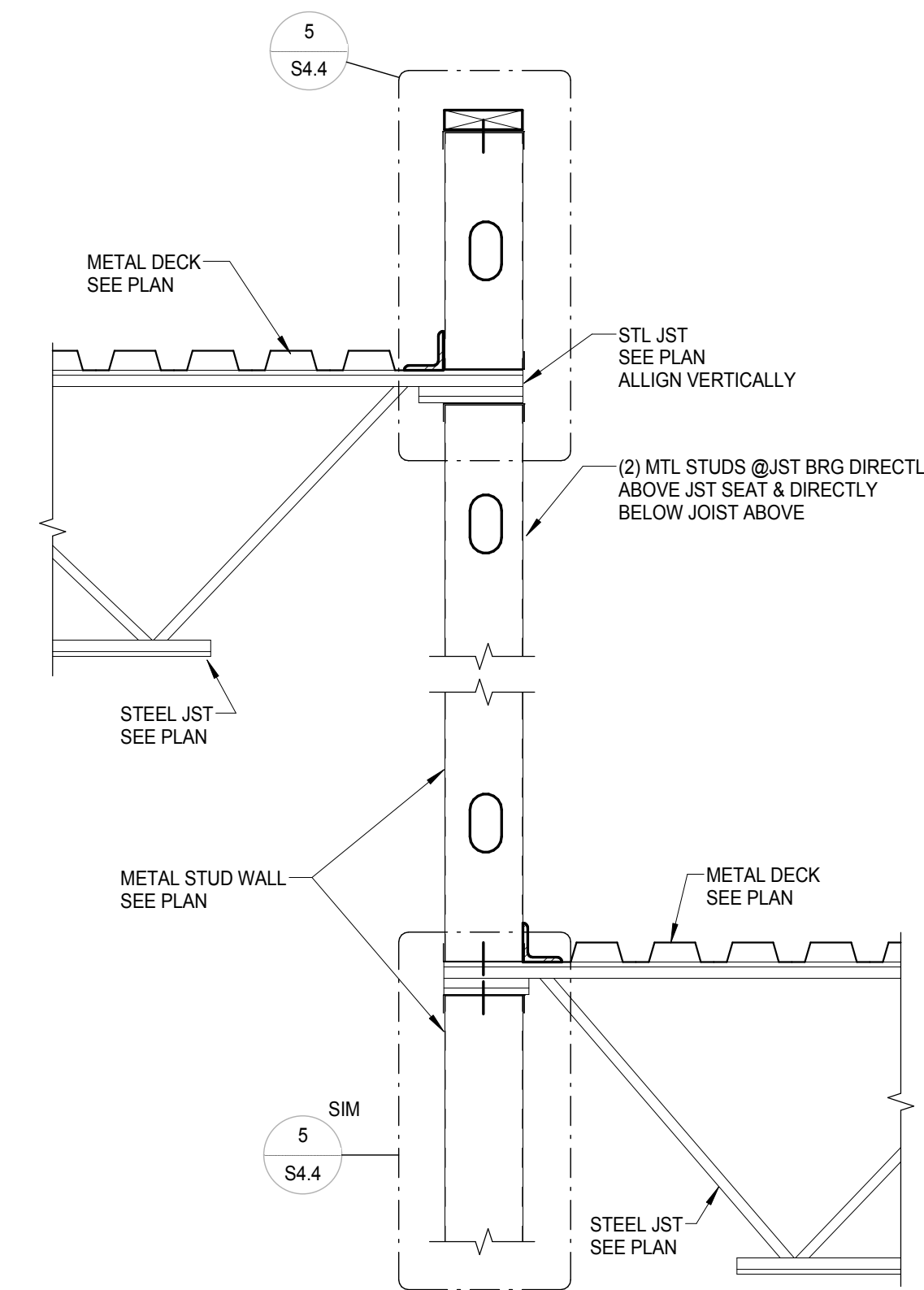
8 SHEAR WALL ANCHORAGE BASE
S4.4 NO SCALE



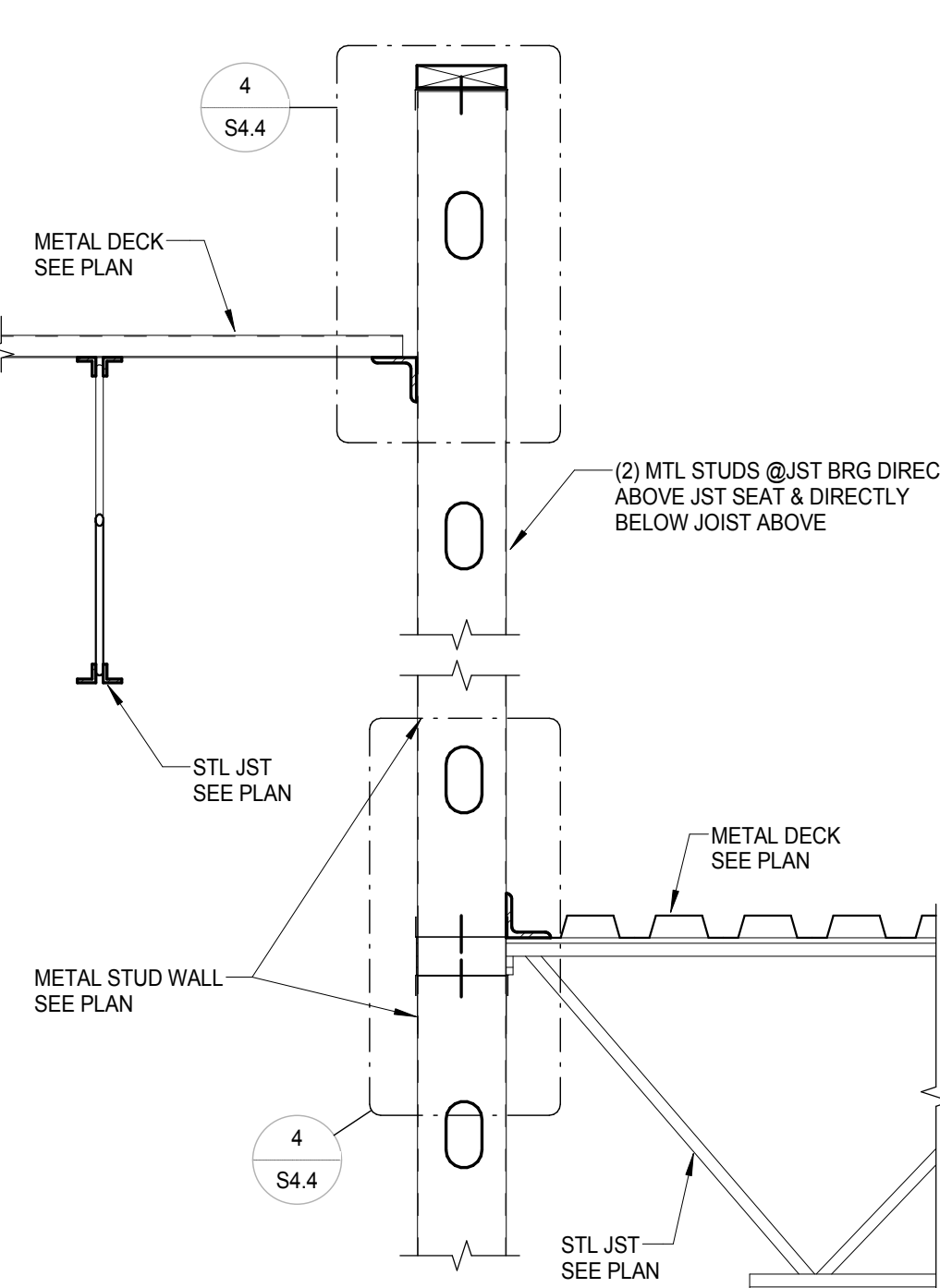
9 SHEAR WALL - INTERMEDIATE
S4.4 NO SCALE



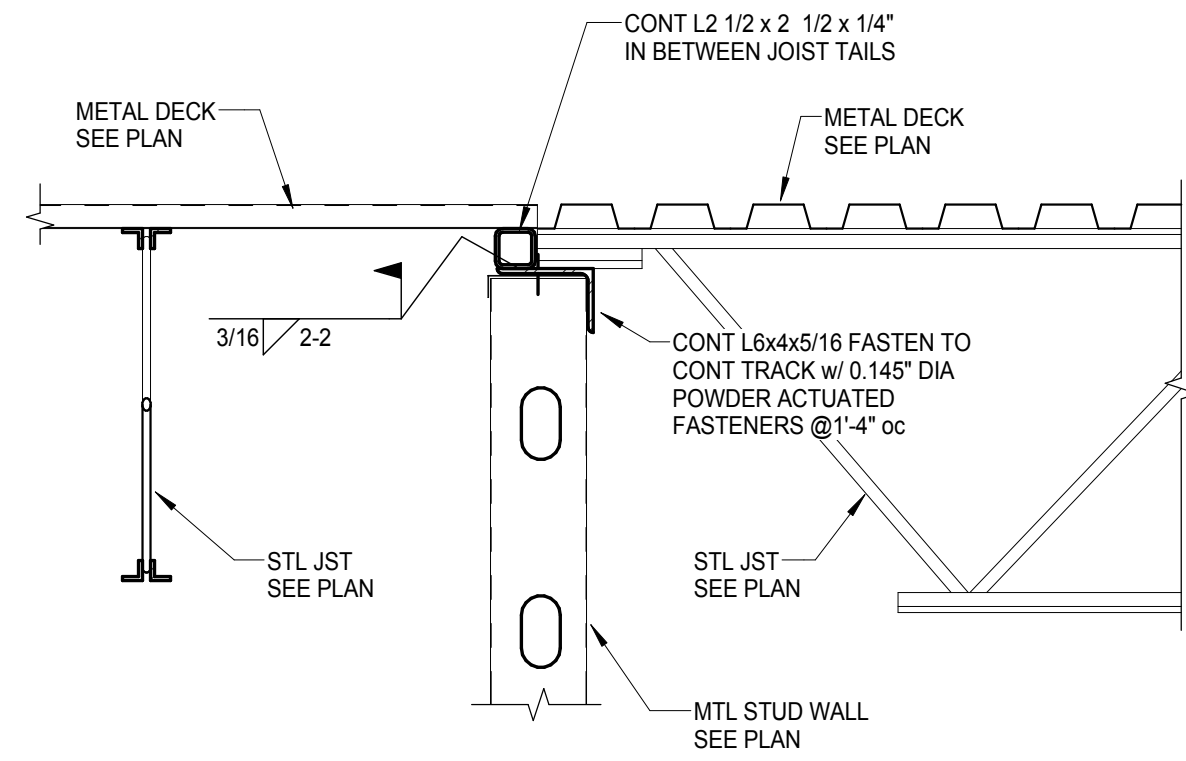
10 SHEAR WALL - TOP CONNECTION
S4.4 NO SCALE



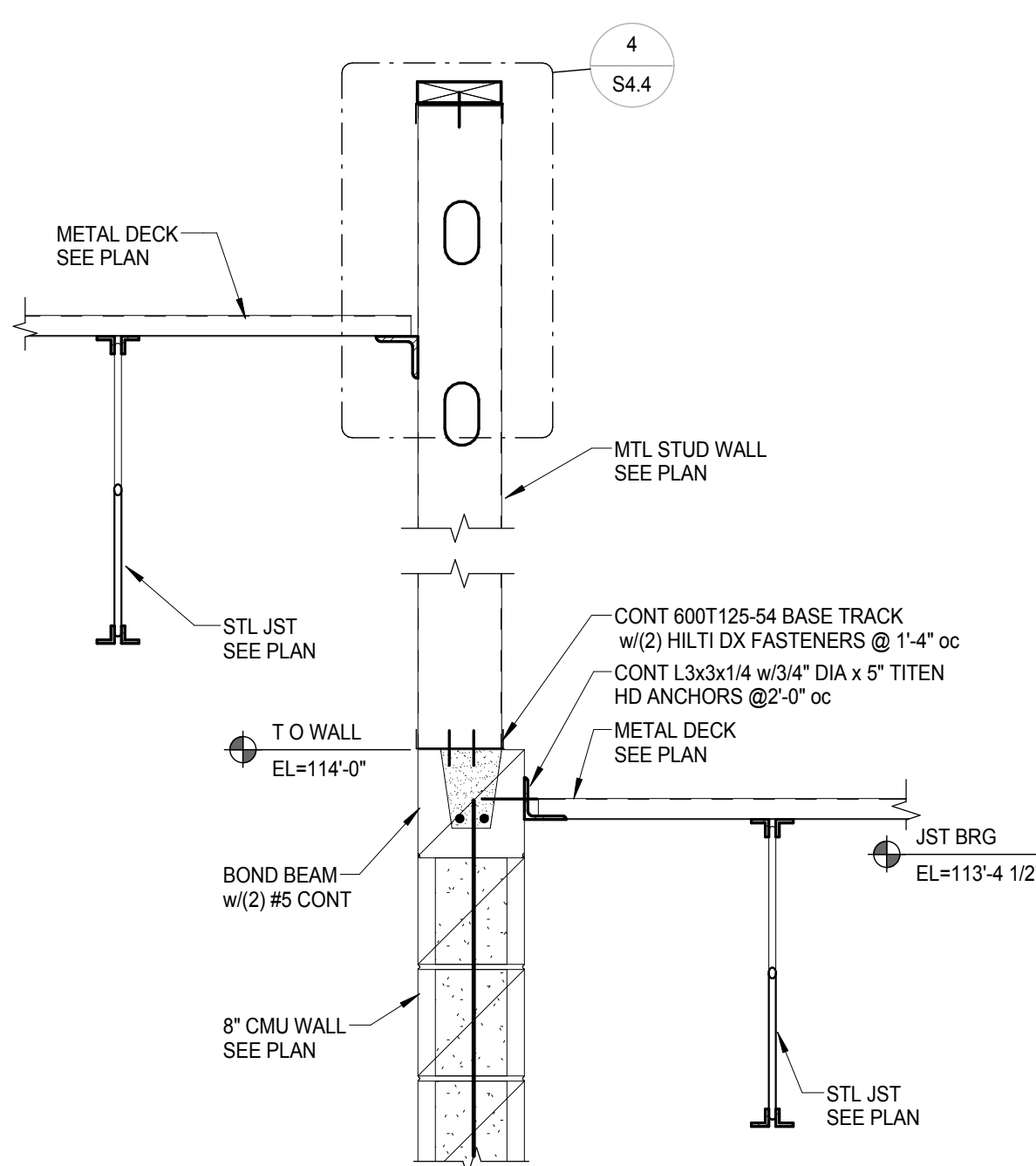
11 JOIST BRG DETAIL
S4.4 NO SCALE



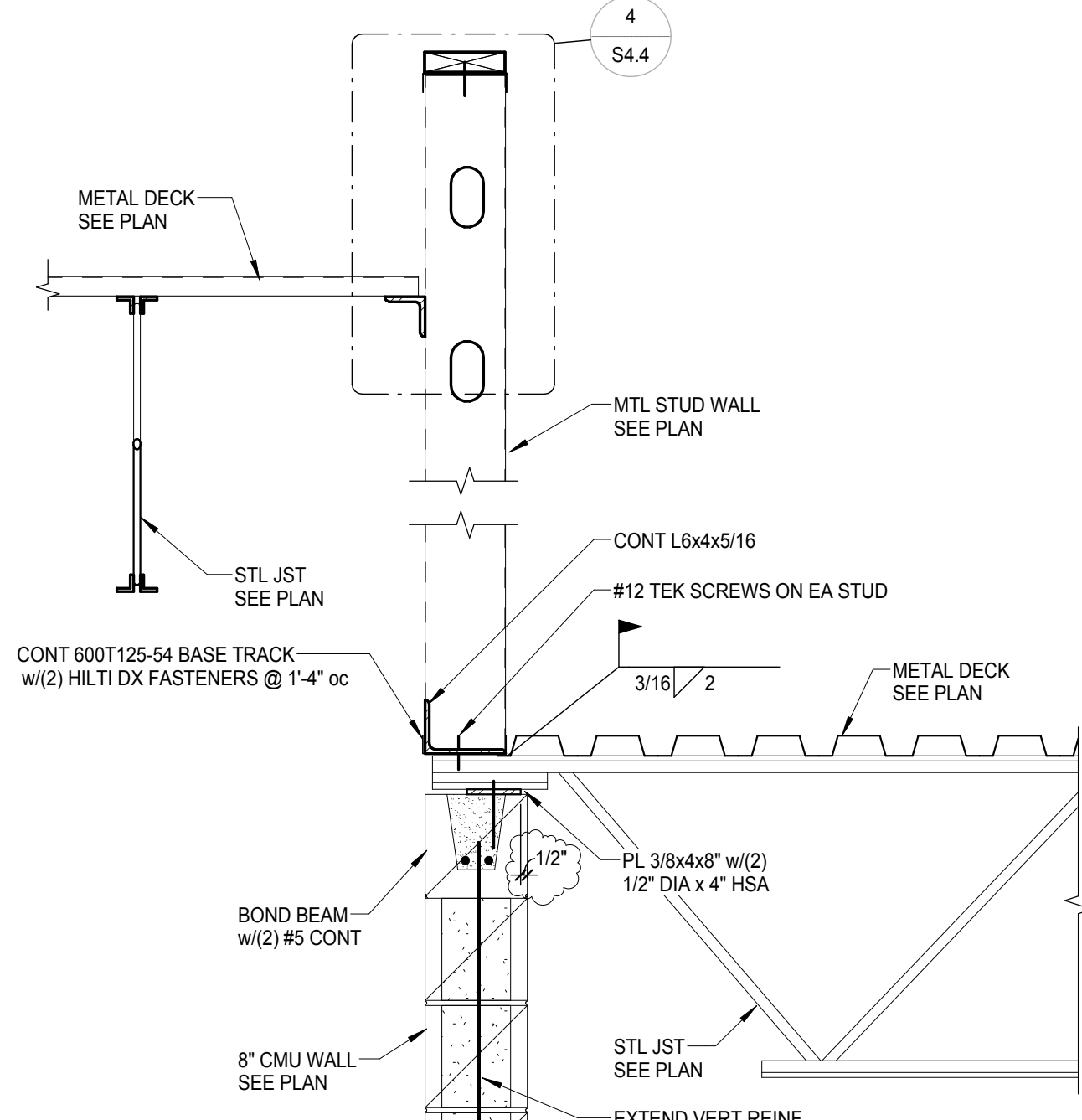
12 JOIST BRG DETAIL
S4.4 NO SCALE



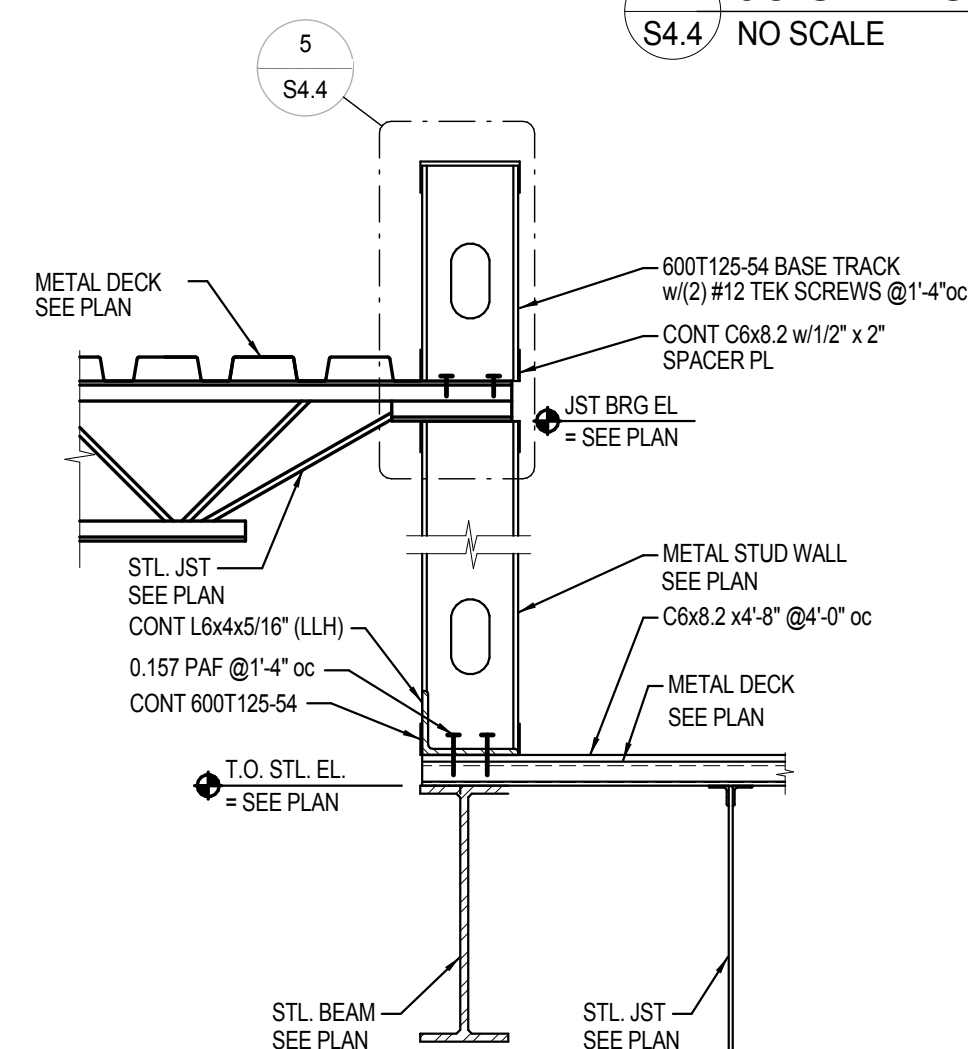
13 JOIST BRG DETAIL
S4.4 NO SCALE



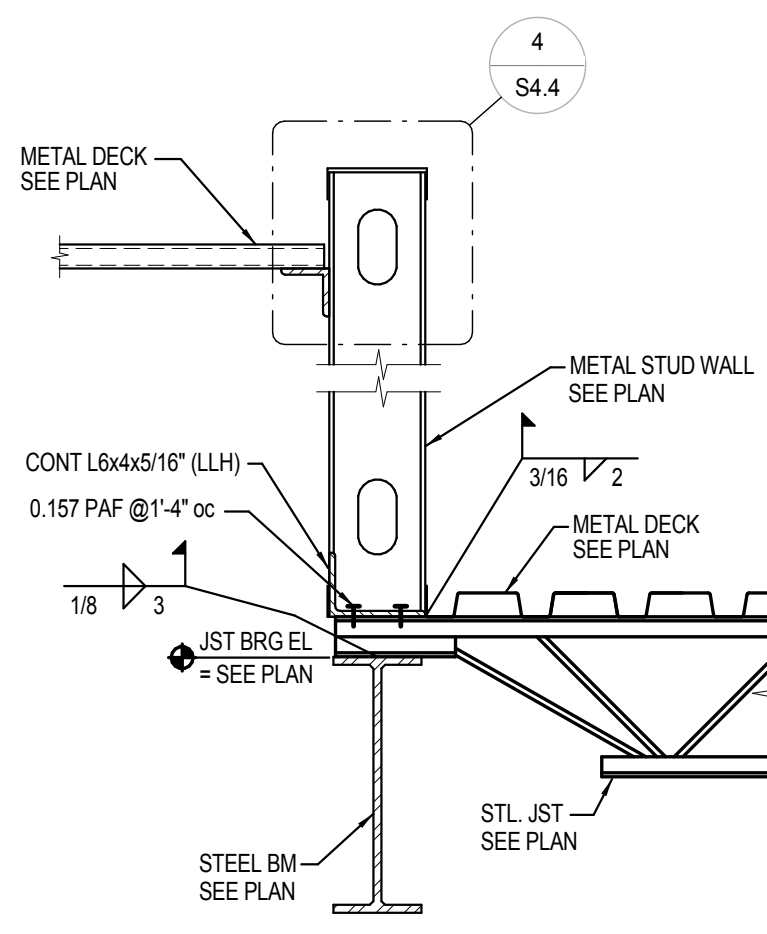
14 DECK BRG DETAIL
S4.4 NO SCALE



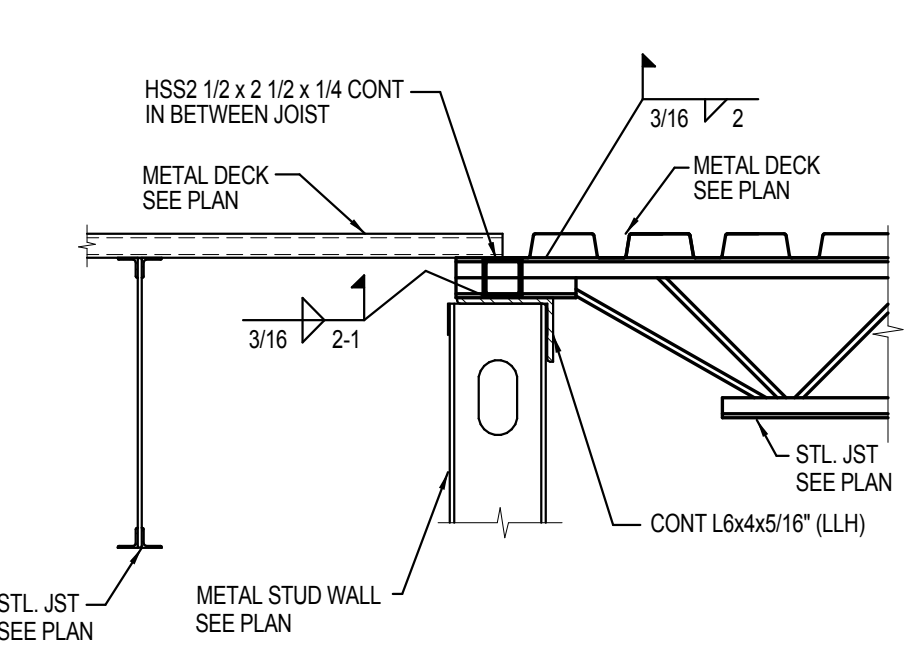
15 JST BRG DETAIL
S4.4 NO SCALE



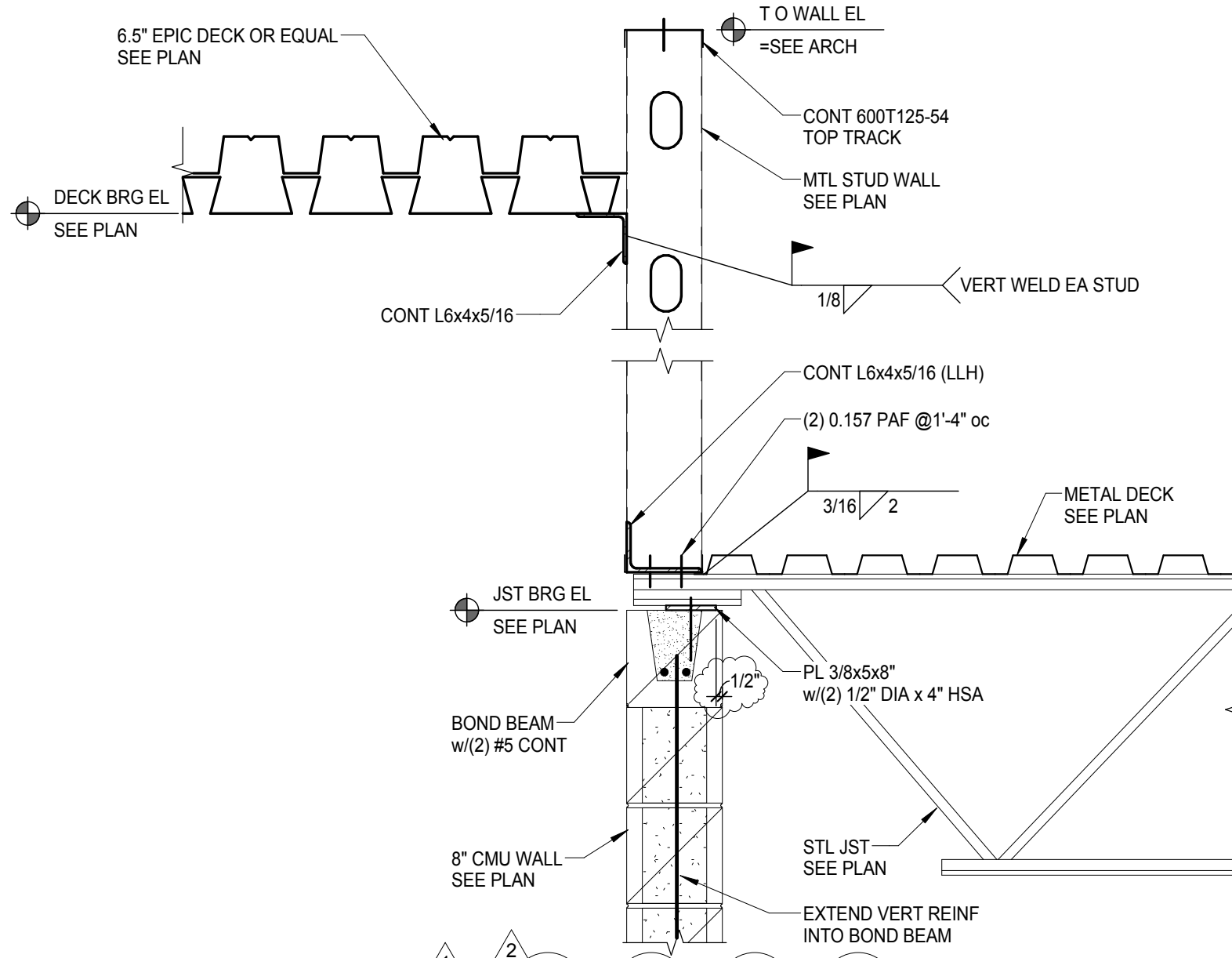
16 DECK BRG DETAIL
S4.4 NO SCALE



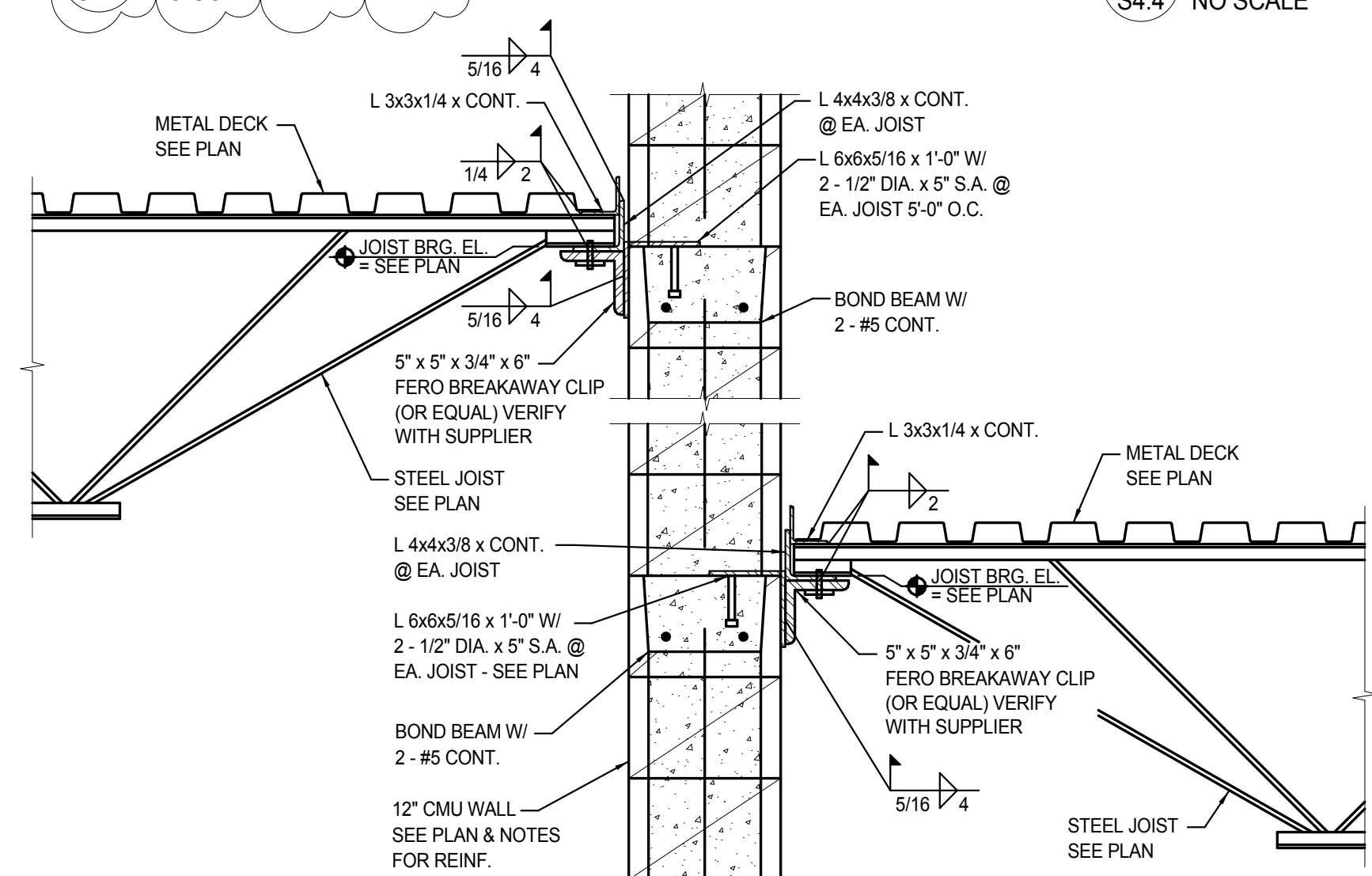
17 JST BRG DETAIL
S4.4 NO SCALE



18 JST BRG DETAIL
S4.4 NO SCALE



19 DECK BRG DETAIL
S4.4 1" = 1'-0"



20 JOIST BRG DETAIL @ FIRE WALL
S4.4 1" = 1'-0"

BID GROUP 1

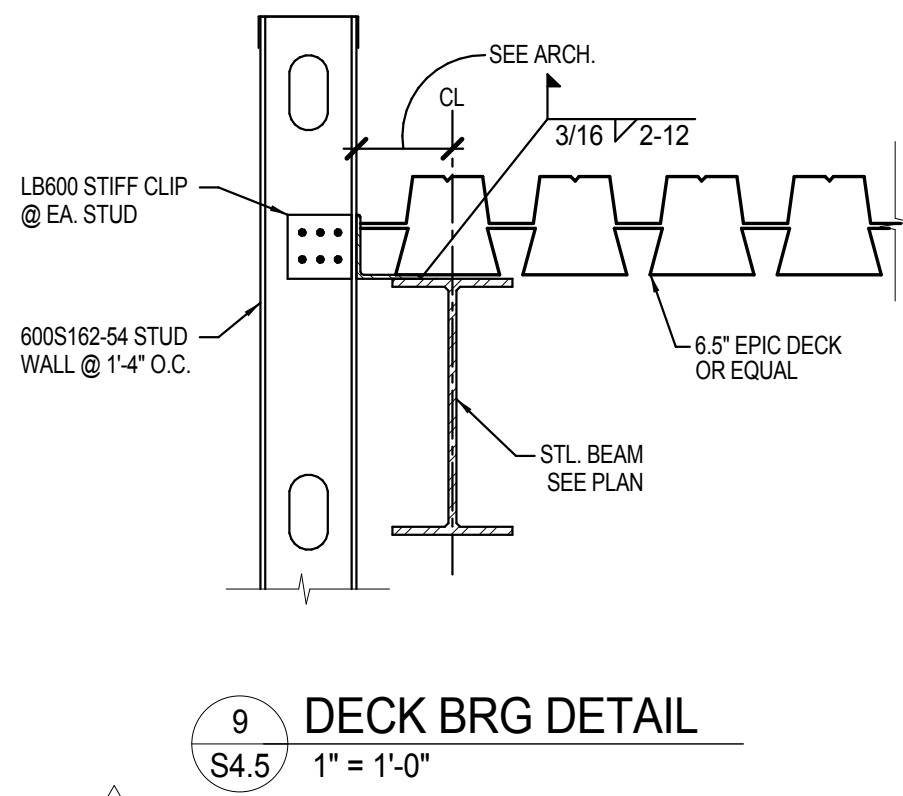
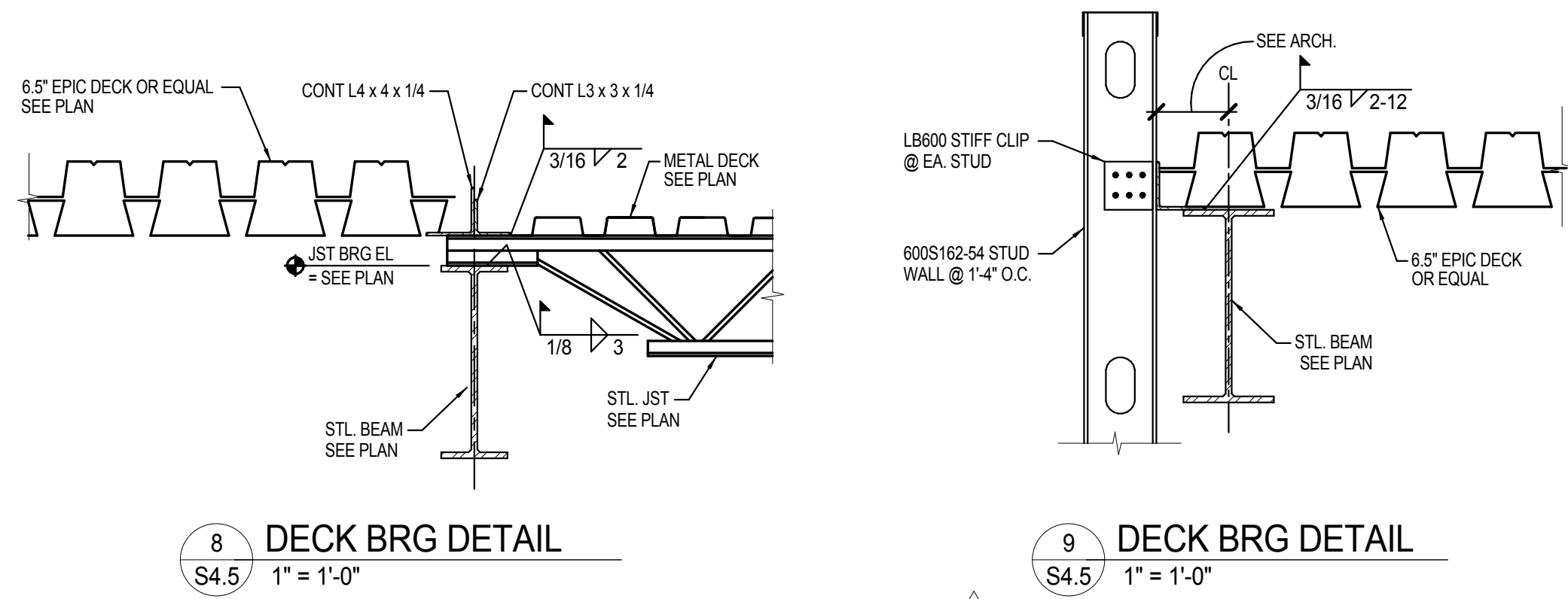
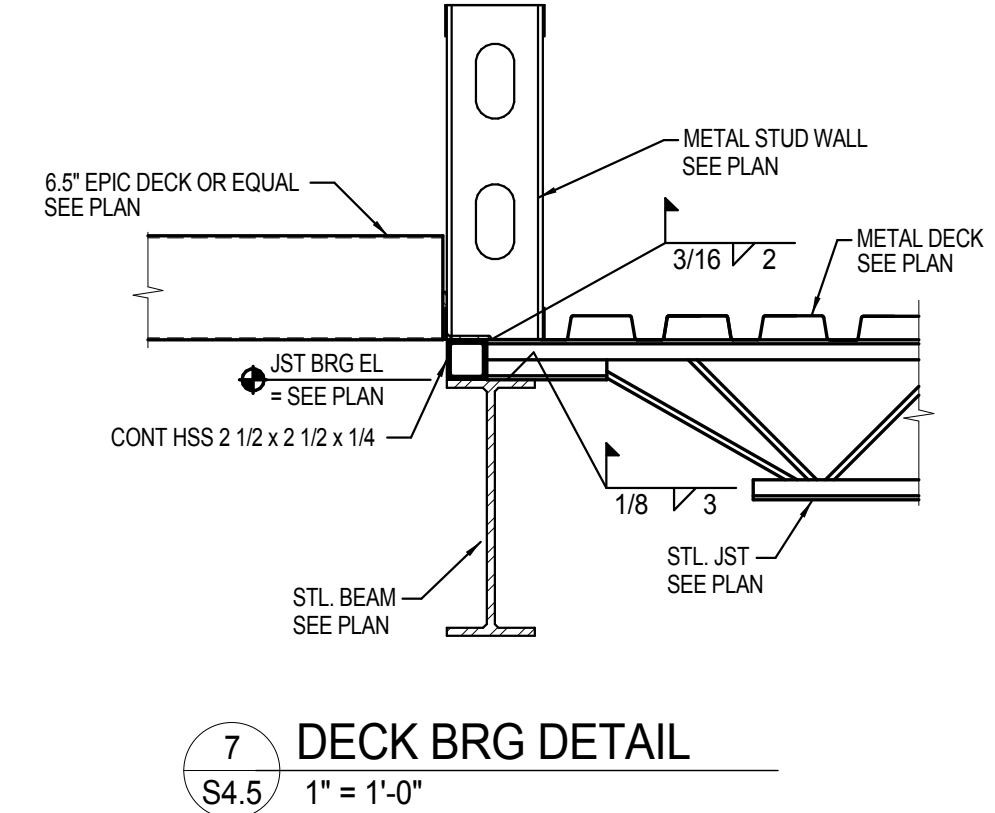
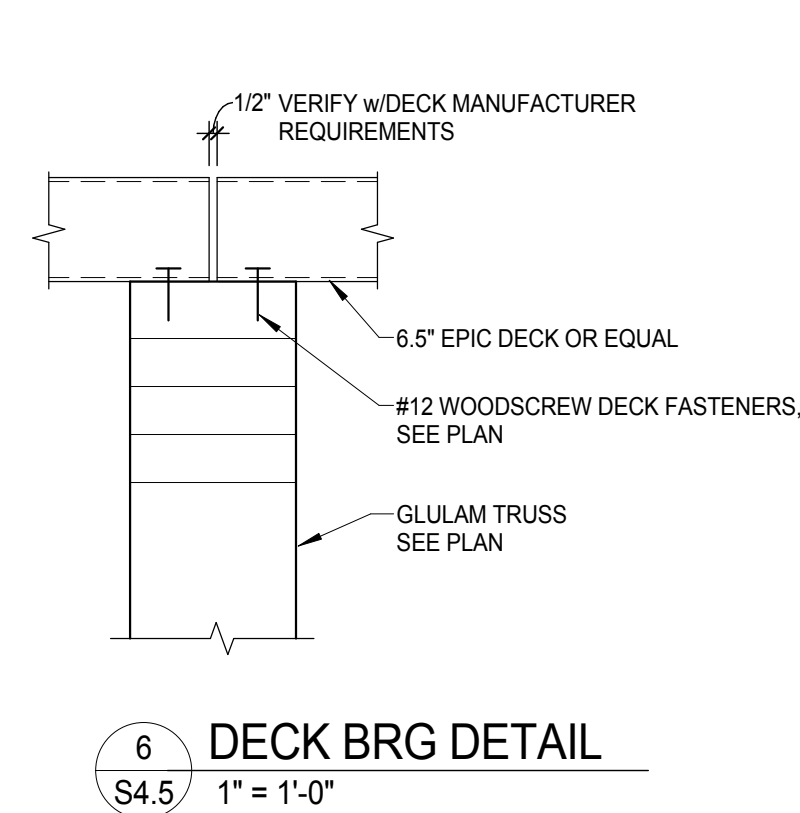
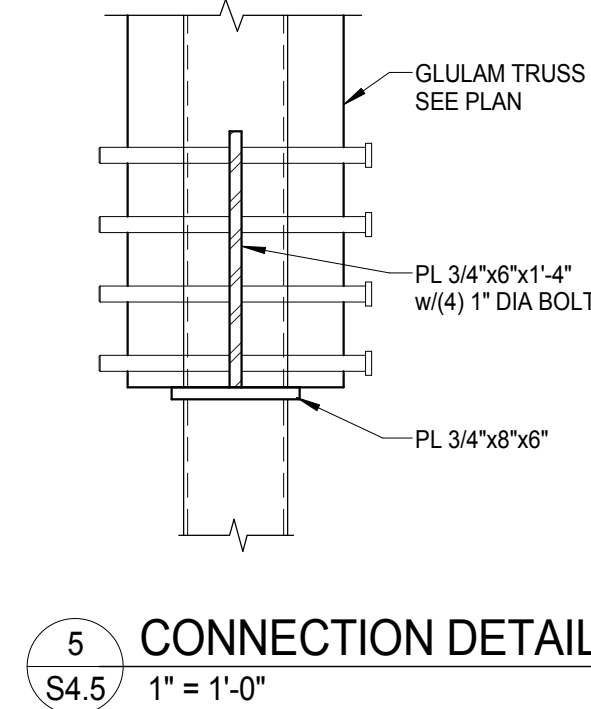
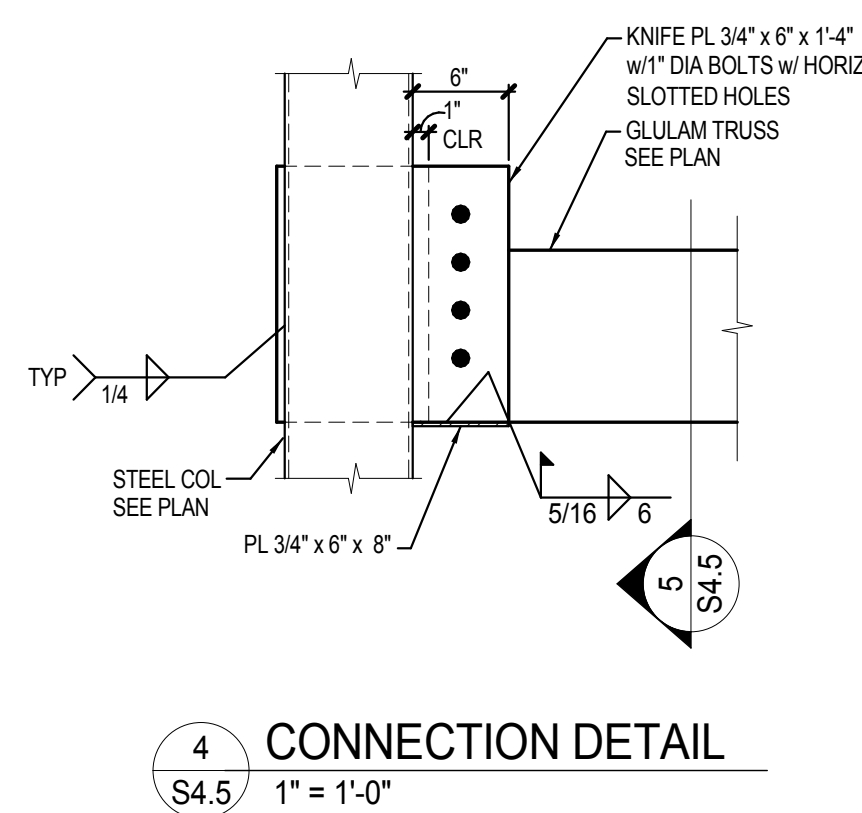
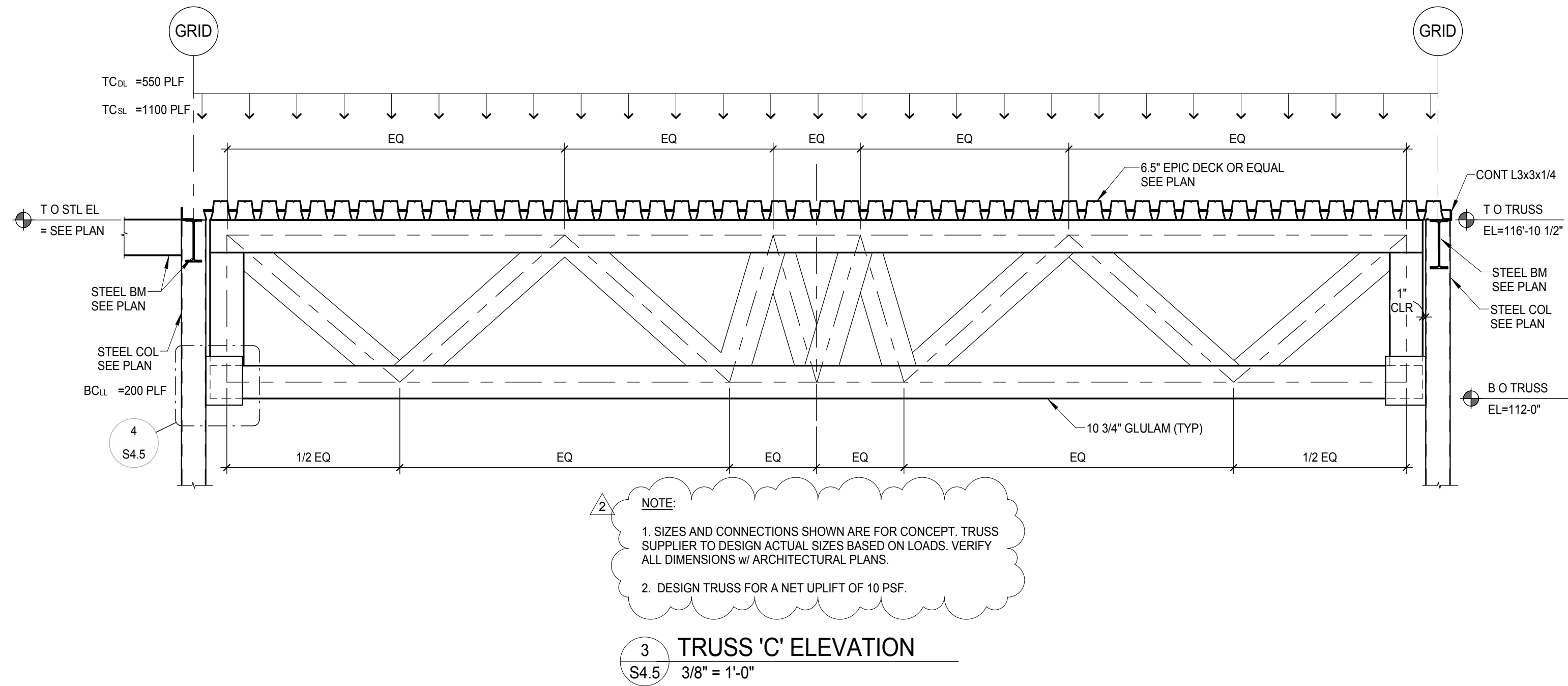
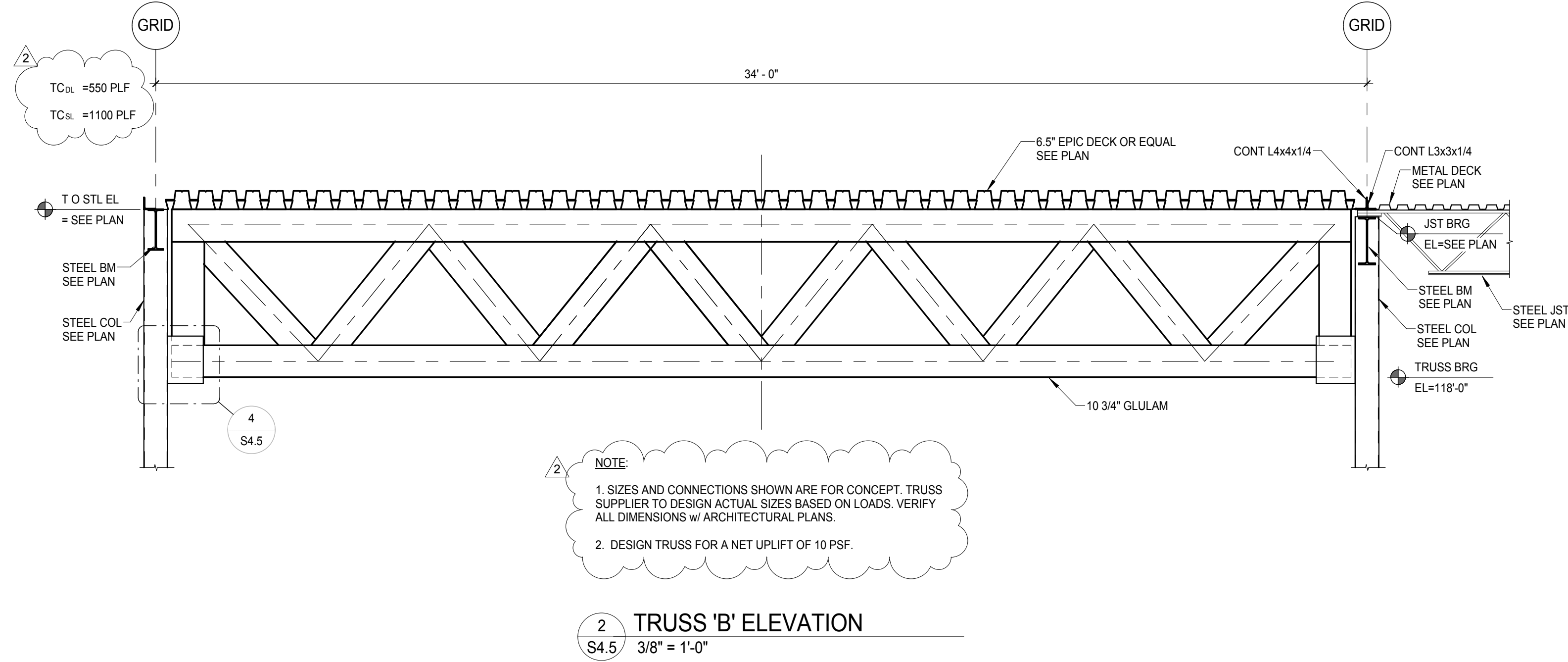
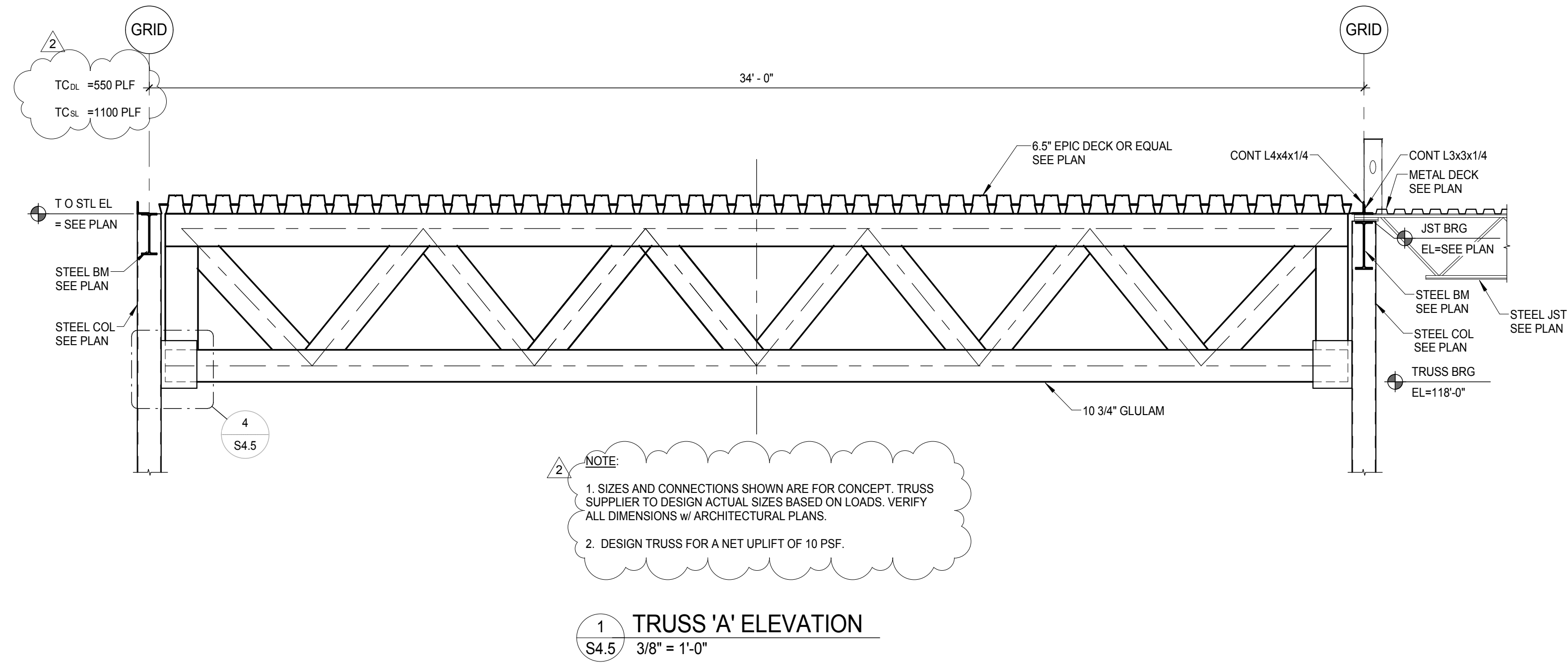
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota

Print Name: Eric A Greiff
Signature: [Signature]
Date: 04/18/2016 Registration No. 41855



MOORHEAD AREA PUBLIC
SCHOOLS
NEW ELEMENTARY
SCHOOL
4400 24th Avenue S
Moorhead, MN 56500

FRAMING DETAILS



BID GROUP 1

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Print Name: Eric A Greiff
Signature:
Date: 04/18/2016 Registration No. 41855

M
MOORHEAD
MOORHEAD AREA PUBLIC
SCHOOLS
NEW ELEMENTARY
SCHOOL
4400 24th Avenue S
Moorhead, MN 56500

FRAMING DETAILS



April 18, 2016

Moorhead Area Public Schools
New Elementary School
MBN Project #15-222
Moorhead, Minnesota

BID DATE: 2:30 p.m., April 21st, 2016

ADDENDUM NO. 2

Drawings and Project Specification Manual for the above referenced project are hereby revised in accordance with the items set forth herein. This Addendum supersedes and supplements all portions of the Bidding Documents with which it conflicts.

Receipt of this Addendum shall be acknowledged by entering this Addendum number on your proposal.

The following are changes or additions to the Bidding Documents dated **April 7th, 2016**

CHANGES TO THE DRAWINGS

Sheet C5.0 - Paving Plan

1. Install an additional three (3) "No Parking" Signs and remove five (5) detectable panels. See attached sheet R1/C5.0 for changes to the Paving Plan.

END OF ADDENDUM NO. 2

