



FASTENING SCHEDULE (IBC TABLE 2304.9.1)			
CONNECTION DESCRIPTION	FASTENING <sup>a,m</sup>	LOCATION	
1. JOIST TO SILL OR GIRDER	3-8d COMMON (2 1/2" x 0.131") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL	
2. BRIDGING TO JOIST	2-8d COMMON (2 1/2" x 0.131") 2-3" x 0.131" NAILS 2-3" 14 GAGE STAPLES	TOENAIL EACH END	
3. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON (2 1/2" x 0.131")	FACE NAIL	
4. WIDER THAN 1" x 6" SUBFLOOR EACH JOIST	3-8d COMMON (2 1/2" x 0.131")	FACE NAIL	
5. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3 1/2" x 0.162")	BLIND AND FACE NAIL	
6. SOLE PLATE TO JOIST OR BLOCKING	16d (3 1/2" x 0.135") AT 16" O.C. 4" x 0.131" NAIL AT 6" O.C. 3" 14 GAGE STAPLE AT 12" O.C.	TYPICAL FACE NAIL	
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3-16d (3 1/2" x 0.135") AT 16" O.C. 4-3" x 0.131" NAILS AT 16" O.C. 4-3" 14 GAGE STAPLES AT 16" O.C.	BRACED WALL PANELS	
7. TOP PLATE TO STUD	2-16d COMMON (3 1/2" x 0.162") 2-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	END NAIL	
8. STUD TO SOLE PLATE	4-8d COMMON (2 1/2" x 0.131") 4-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TOE NAIL	
	2-16d COMMON (3 1/2" x 0.162") 2-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	END NAIL	
9. DOUBLE STUDS	16d (3 1/2" x 0.135") AT 24" O.C. 3" x 0.131" NAIL AT 6" O.C. 3" 14 GAGE STAPLE AT 6" O.C.	FACE NAIL	
10. DOUBLE TOP PLATES	16d (3 1/2" x 0.135") AT 16" O.C. 3" x 0.131" NAIL AT 12" O.C. 3" 14 GAGE STAPLE AT 12" O.C.	TYPICAL FACE NAIL	
DOUBLE TOP PLATES	8-16d COMMON (3 1/2" x 0.162") 12-3" x 0.131" NAILS 12-3" 14 GAGE STAPLES	LAP SPLICE	
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2" x 0.131") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL	
12. RIM JOIST TO TOP PLATE	8d (2 1/2" x 0.115") AT 6" O.C. 3" x 0.131" NAIL AT 6" O.C. 3" 14 GAGE STAPLE AT 6" O.C.	TOENAIL	
13. TOP PLATES, LAPS, AND INTERSECTIONS	2-16d COMMON (3 1/2" x 0.162") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	FACE NAIL	
14. CONTINUOUS HEADER, TWO PIECES	16d COMMON (3 1/2" x 0.162")	16" O.C. ALONG EDGE	
15. CEILING JOISTS TO PLATE	3-8d COMMON (2 1/2" x 0.131") 5-3" x 0.131" NAILS 5-3" 14 GAGE STAPLES	TOENAIL	
16. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2" x 0.131")	TOENAIL	
17. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3-16d COMMON MINIMUM, TABLE 2308.10.4.1 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL	
18. CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3-16d COMMON MINIMUM, TABLE 2308.10.4.1 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL	
19. RAFTER TO PLATE (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	3-8d COMMON (2 1/2" x 0.131") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL	
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	2-8d COMMON (2 1/2" x 0.131") 2-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	FACE NAIL	
21. 1" x 8" SHEATHING TO EACH BEARING WALL	3-8d COMMON (2 1/2" x 0.131")	FACE NAIL	
22. WIDER THAN 1" x 8" SHEATHING TO EACH BEARING WALL	3-8d COMMON (2 1/2" x 0.131")	FACE NAIL	
23. BUILT-UP CORNER STUDS	16d COMMON (3 1/2" x 0.162") 3" x 0.131" NAIL 3" 14 GAGE STAPLE	24" O.C. 16" O.C. 16" O.C.	
24. BUILT-UP GIRDER AND BEAMS	20d COMMON (4" x 0.192") AT 32" O.C. 3" x 0.131" NAIL AT 24" O.C. 3" 14 GAGE STAPLE AT 24" O.C.	FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDE	
	2-20d COMMON (4" x 0.192") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	FACE NAIL AT ENDS AND AT EACH SPLICE	
25. 2" PLANKS	16d COMMON (3 1/2" x 0.162")	AT EACH BEARING	
26. COLLAR TIE TO RAFTER	3-10d COMMON (3" x 0.148") 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL	
27. JACK RAFTER TO HIP	3-10d COMMON (3" x 0.148") 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	TOENAIL	
	2-16d COMMON (3 1/2" x 0.162") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	FACE NAIL	
28. ROOF RAFTER TO 2-BY RIDGE BEAM	2-16d COMMON (3 1/2" x 0.162") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL	
	2-16d COMMON (3 1/2" x 0.162") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	FACE NAIL	
29. JOIST TO BAND JOIST	3-16d COMMON (3 1/2" x 0.162") 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL	
30. LEDGER STRIP	3-16d COMMON (3 1/2" x 0.162") 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL	
31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD <sup>o</sup> SUBFLOOR, ROOF, AND WALL SHEATHING (TO FRAMING)	1/2" AND LESS 6d <sup>1</sup> 19/32" TO 3/4" 2 3/8" x 0.113" NAIL <sup>h</sup> 1 3/4" 16 GAGE STAPLE <sup>o</sup> 8d <sup>o</sup> OR 6d <sup>o</sup> 7/8" TO 1" 2 3/8" x 0.113" NAIL <sup>h</sup> 2" 16 GAGE STAPLE <sup>o</sup> 1 1/8" TO 1 1/4" 8d <sup>o</sup> OR 6d <sup>o</sup> 3/4" AND LESS 6d <sup>1</sup> 7/8" TO 1" 8d <sup>o</sup> 1 1/8" TO 1 1/4" 10d <sup>o</sup> OR 8d <sup>o</sup>		
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	1/2" OR LESS 6d <sup>1</sup> 5/8" 8d <sup>1</sup>		
32. PANEL SIDING (TO FRAMING)	1/2" OR LESS 6d <sup>1</sup> 5/8" 8d <sup>1</sup>		
33. FIBERBOARD SHEATHING <sup>o</sup>	1/2" NO. 11 GAGE ROOFING NAIL <sup>h</sup> 6d COMMON NAIL (2" x 0.113") NO. 16 GAGE STAPLE <sup>o</sup> 25/32" NO. 11 GAGE ROOFING NAIL <sup>h</sup> 6d COMMON NAIL (2 1/2" x 0.131") NO. 16 GAGE STAPLE <sup>o</sup>		
34. INTERIOR PANELING	1/4" 4d <sup>1</sup> 3/8" 6d <sup>1</sup>		

- a. COMMON OR BOX NAILS ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED.  
b. NAILS SPACED AT 6 INCHES ON CENTER AT EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES AT SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX, OR CASING.  
c. COMMON OR DEFORMED SHANK (6d - 2" x 0.113"; 8d - 2 1/2" x 0.131"; 10d - 3" x 0.148").  
d. COMMON (6d - 2" x 0.113"; 8d - 2 1/2" x 0.131"; 10d - 3" x 0.148").  
e. DEFORMED SHANK (6d - 2" x 0.113"; 8d - 2 1/2" x 0.131"; 10d - 3" x 0.148").  
f. CORROSION - RESISTANT SIDING (6d - 1 7/8" x 0.106"; 8d - 2 3/8" x 0.128") OR CASING (6d - 2" x 0.099"; 8d - 2 1/2" x 0.113").  
g. FASTENERS SPACED 3 INCHES ON CENTER AT EXTERIOR EDGES AND 6 INCHES ON CENTER AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS.  
h. CORROSION - RESISTANT ROOFING NAILS WITH 7/16 INCH DIAMETER HEAD AND 1 1/2 INCH LENGTH FOR 1/2 INCH SHEATHING AND 1 3/4 INCH LENGTH FOR 25/32 INCH SHEATHING.  
i. CORROSION - RESISTANT STAPLES WITH NOMINAL 7/16 INCH CROWN OR 1 INCH CROWN AND 1 1/4 INCH LENGTH FOR 1/2 INCH SHEATHING AND 1 1/2 INCH LENGTH FOR 25/32 INCH SHEATHING. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).  
j. CASING OR FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.  
k. PANEL SUPPORTS AT 24 INCHES. CASING OR FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.  
l. FOR ROOF SHEATHING APPLICATIONS, 8d NAILS ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/16 INCH.  
m. FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.  
n. FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS FOR SUBFLOOR AND WALL SHEATHING AND 3 INCHES ON CENTER AT EDGES, 6 INCHES AT INTERMEDIATE SUPPORTS FOR ROOF SHEATHING.  
p. FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.

LINTEL SCHEDULE					
TYPE MARK	DESCRIPTION	NO OF JAMBS 1ST-2ND	NO OF JAMBS 2ND-3RD	NO OF JAMBS 3RD-4TH	NO OF JAMBS 4TH-ROOF
L1	(2) 2x10	(2) 2x6 BRG (2) 2x6 KING	(2) 2x6 BRG (2) 2x6 KING	(2) 2x6 BRG (2) 2x6 KING	(2) 2x6 BRG (2) 2x6 KING
L2	(3) 2x10	(3) 2x6 BRG (2) 2x6 KING	(3) 2x6 BRG (2) 2x6 KING	(2) 2x6 BRG (2) 2x6 KING	(2) 2x6 BRG (2) 2x6 KING
L3	(2) 2x10	(2) 2x6 BRG (2) 2x6 KING			
L4	(3) 2x12				(2) 2x6 BRG (2) 2x6 KING
L5	(2) 1-3/4x9-1/2 LVL 2.0E	(6) 2x6 BRG (2) 2x6 KING	(4) 2x6 BRG (2) 2x6 KING	(3) 2x6 BRG (2) 2x6 KING	
L6	(3) 2x10				(2) 2x6 BRG (1) 2x6 KING
L9	(3) 2x10	(4) 2x6 BRG (1) 2x6 KING	(3) 2x6 BRG (1) 2x6 KING	(3) 2x6 BRG (1) 2x6 KING	
L11	(2) 2x10	(3) 2x6 BRG (1) 2x6 KING	(2) 2x6 BRG (1) 2x6 KING	(2) 2x6 BRG (1) 2x6 KING	
L12	(2) 1-3/4x9-1/2 LVL 2.0E	(3) 2x6 BRG (1) 2x6 KING			
L13	(2) 1-3/4x9-1/2 LVL 2.0E	SEE PLAN (1) 2x6 KING			
L14	(3) 1-3/4x11-7/8 LVL 2.0E	(3) 2x6 BRG (1) 2x6 KING			
L15	(3) 1-3/4x11-7/8 LVL 2.0E	(4) 2x6 BRG (1) 2x6 KING			
L16	(3) 1-3/4x18 LVL 2.0E	(4) 1-3/4 X 7 1/4 1.55 E LSL BRG			
L17	(3) 2x10	(2) 2x6 BRG (2) 2x6 KING			
L18	(2) 2x10	(3) 1 3/4x 7 1/4 1.55E LSL BRG (3)	(2) 1 3/4x 7 1/4 1.55E LSL BRG		
L19	(3) 2x10	1 3/4x 7 1/4 2.0E LVL KING			
L19	CIP BM 18" DP (MIN) W/ (2) #6 TOP AND BOTL. (EXTEND 1'-6" INTO WALL EA SIDE) & #3 TIES @ 10" O.C.				

FOOTING SCHEDULE			
TYPE MARK	TYPE	TYPE COMMENTS	
CF1.8	1'-8" x 1'-0" CONT FTG	(2) #5 CONT. BOTT	
CF2.0	2'-0" x 1'-0" CONT FTG	(2) #5 CONT. BOTT	
CF3.0	3'-0" x 1'-0" CONT FTG	(3) #5 CONT. AND #5 AT 12" O.C.	
F6.0	6'-0" x 6'-0" x 1'-2"	(7) #5 EACH WAY, BOTT.	
F7.0	7'-0" x 7'-0" x 1'-5"	(6) #6 EACH WAY, BOTT.	
F8.0	8'-0" x 8'-0" x 1'-7"	(6) #7 EACH WAY, BOTT.	
F10.0	10'-0" x 10'-0" x 2'-0"	(9) #7 EACH WAY, BOTT.	
F10.5	10'-6" x 10'-6" x 2'-1"	(10) #7 EACH WAY, BOTT.	

COLUMN SCHEDULE			
TYPE MARK	TYPE	TYPE COMMENTS	
C1	16x16 PC COL		
C2	HSS3X4X1/4	6" x 6" x 3/4" BP	
C3	HSS5X3X1/4	6" x 6" x 3/4" BP	

BEAM SCHEDULE			
TYPE MARK	DESCRIPTION	REMARKS	
B1	(3) 1-3/4x16 LVL		
B2	W14x61	2x TOP PL W/ 1/2" DIA THRU BOLTS @ 48" OC STAGGERED	
B3	(3) 1-3/4x9-1/2 LVL		
B4	(3) 1-3/4x14 LVL		
B5	(3) 1-3/4x11-7/8 LVL		
B6	W8x15	W/ 3/4" X 6" X 8" BRG PLATE (8" BRG EA SIDE) W/ (2) 1/2" DIA X 4" LG WELD STUDS W/ CONT 1/4" FILLET WELD TO BEAM (BOTH SIDES).	
B7	HSS16x8x3/8"	W/ 3/8" BOTT PLATE & 3/4" X 10" X 8" BRG PLATE (8" BRG EA SIDE) W/ (2) 1/2" DIA X 4" LG WELD STUDS W/ CONT FLARE WELD TO TUBE (BOTH SIDES).	
B8	L8x6x7/16"	W/ 3/4" X 6" X 8" BRG PLATE (8" BRG EA SIDE) W/ (2) 1/2" DIA X 4" LG WELD STUDS W/ CONT 1/4" FILLET WELD TO BEAM (BOTH SIDES).	

PIER SCHEDULE			
TYPE MARK	TYPE	TYPE COMMENTS	
P1	24x24 PC COL	24" x 24" W/ (8) #8 & #3 TIES @ 12" O.C.	
P2	16x24 PC COL	24" x 16" (8) #8 & 3 TIES @ 10" OC EXTEND ALL REINF. FULL HGT OF WALL OR TO BRG PLATE ELEVATION	

STAIR STRINGER SCHEDULE			
SPAN	TYPE	SPACING	TYPE COMMENTS
4'-0" - 12'-5"	1 3/4" x 14" 1.55E LSL	12" O.C.	USE STRAP HANGERS
12'-6" - 15'-6"	1 3/4" x 16" 1.55E LSL	12" O.C.	USE STRAP HANGERS

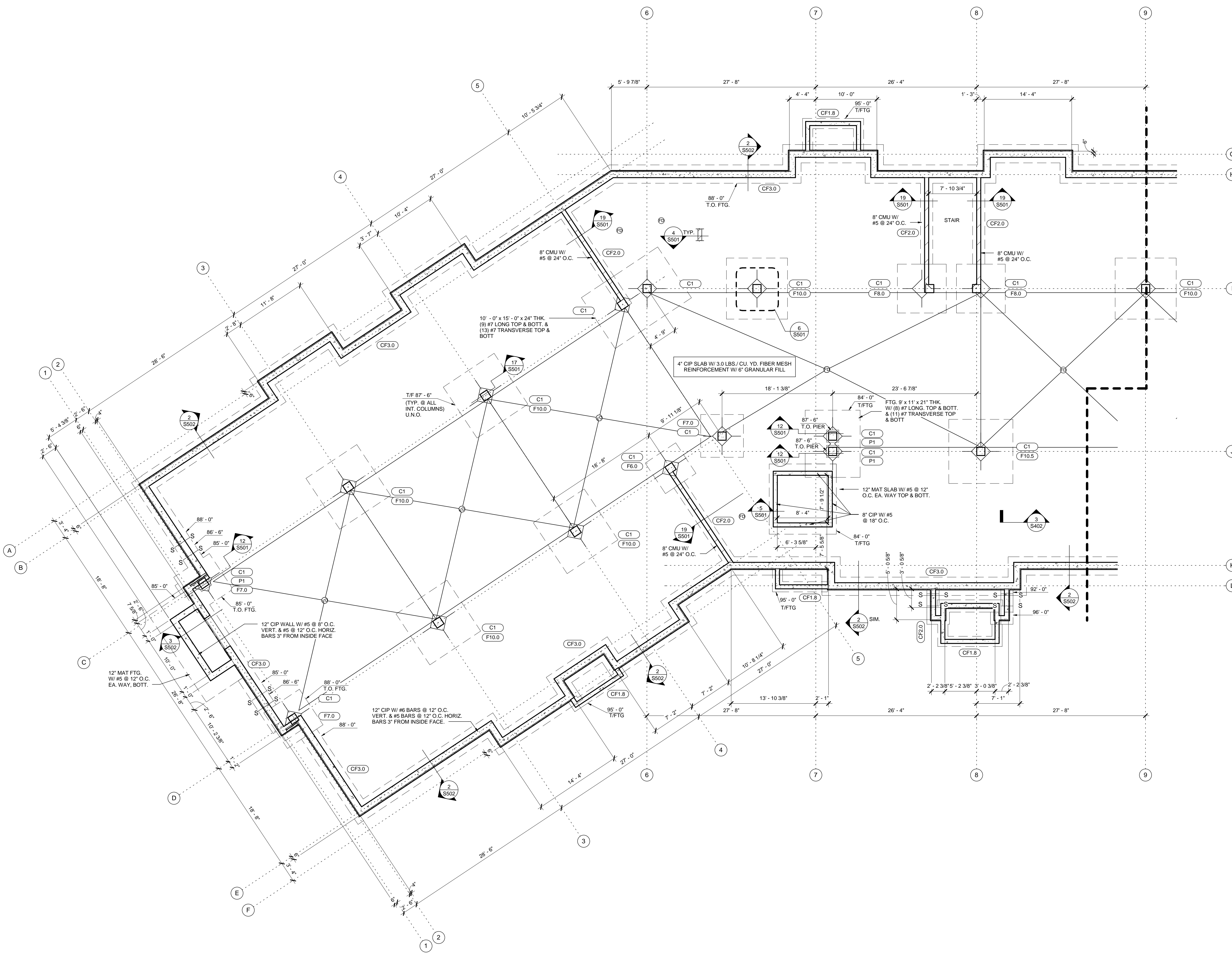
BRICK LINTEL SCHEDULE			
SPAN	TYPE	REMARKS	
0'-6" - 4'-0"	L4 x 3 1/2 x 5/16	8" BEARING EACH END	
4'-4" - 6'-4"	L6 x 3 1/2 x 5/16	8" BEARING EACH END	
6'-4" - 8'-0"	L8 x 4 x 1/2	8" BEARING EACH END	

STRUCTURAL ABBREVIATIONS			
AB	ANCHOR BOLT	MATL	MATERIAL
ADD	ADDITIONAL	MAU	MAKE-UP AIR UNIT
ADJ	ADJACENT	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AHU	AIR HANDLING UNIT	MEZZ	MEZZANINE
ALT	ALTERNATE	MFR	MANUFACTURER
ALUM	ALUMINUM	MID	MIDDLE
APPROX	APPROXIMATE/APPROXIMATELY	MIN	MINIMUM
ARCH	ARCHITECT/ARCHITECTURAL	MISC	MISCELLANEOUS
		MS	MASONRY OPENING
		MTL	METAL
BP	BASE PLATE/BEARING PLATE	NA	NOT APPLICABLE
BO	BOTTOM OF BUILDING	NO	NUMBER
BLK	BLOCK	NS	NEAR SIDE
BLKG	BLOCKING	NTS	NOT TO SCALE
BM	BEAM		
BOTT	BOTTOM BEARING	OC	ON CENTER
BRG	BETWEEN	OD	OUTSIDE DIAMETER
BTWN		OF	OUTSIDE FACE
CANT	CANTILEVER	OH	OVERHANG
CIP	CAST-IN-PLACE CONCRETE	OPNG	OPENING
CJ	CONTROL JOINT/CONSTRUCTION JOINT	OSB	OSB SHEATHING
CJP	COMPLETE JOINT PENETRATION WELD	OPF	ORIENTED STRAND BOARD
CL	CENTER LINE	OSB	OSB SHEATHING
CLR	CLEAR	PAP	POWDER ACTUATED FASTENER
CMU	CONCRETE MASONRY UNIT	PCF	POUNDS PER CUBIC FOOT
COL	COLUMN	PIL	PILASTER
CONC	CONCRETE	PJP	PARTIAL JOINT PENETRATION WELD
CONN	CONNECT/CONNECTION	PL	PLATE
COORD	COORDINATE	PLF	POUNDS PER LINEAR FOOT
		PLYWD	PLYWOOD
		PREFAB	PREFABRICATED
DBL	DOUBLE	DEMOL	DEMOLITION
DEMO	DEMOLITION	DET	DETAIL
DTL	DETAIL	DIAM	DIAMETER
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
DIAG	DIAGONAL	PSL	PARALLEL STRAND LUMBER
DIM	DIMENSION(S)	PT	POST TENSIONED
DEADLD	DEADLOAD		
DN	DOWN	QTY	QUANTITY
DEEP	DEEP	R	RADIUS
DRAWING	DRAWING	RD	ROOF DRAIN
DWL	DOWEL	REF	REFERENCE
EA	EACH	REINF	REINFORCED/REINFORCEMENT
EF	EACH FACE	REQD	REQUIRED
ELEV	ELEVATION	REV	REVISED/REVISION
ELEV	ELEVATION	ROU	ROUGH OPENING
EMBED	EMBEDDED/EMBEDMENT	RTU	ROOF TOP UNIT
ENGR	ENGINEER	SCHED	SCHEDULE
EOR	EQUIPMENT OF RECORD	SECT	SECTION
EQ	EQUAL	SQ	SQUARE FOOT
EQUIP	EQUIPMENT	SFT	SHEET
EWP	EACH WAY	SHT	SHEET
EXIST	EXISTING	SLM	SIMILAR
EXP	EXPANSION	SL	SLAB LOAD
EXT	EXTERIOR	SOG	SLAB ON GRADE
		SP	SPACE
FAB	FABRICATOR/FABRICATION	SPEC	SPECIFICATION(S)
FD	FLOOR DRAIN	SQ	SQUARE
FDN	FOUNDATION	SS	STAINLESS STEEL
FEE	FINISHED FLOOR ELEVATION	STD	STANDARD
FLR	FLOOR	STIFF	STIFFENER
FS	FAR SIDE	STL	STEEL
FT	FOOTING	STRUCT	STRUCTURAL
FTG	FOOTING	SYM	SYMMETRICAL
		TO	TOP OF
GA	GAUGE	T&B	TOP AND BOTTOM
GALV	GALVANIZED	T&G	TONGUE AND GROOVE
GC	GENERAL CONTRACTOR	TEMP	TEMPORARY
GLULAM	GLUE LAMINATED WOOD	THICK	THICKNESS
GB	GRADE BEAM	TOTL	TOTAL LOAD
GIR	GIRDER TRUSS	TRANS	TRANSVERSE
GYP	GYPSUM	TYP	TYPICAL
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HT	HEIGHT	VERT	VERTICAL
ID	INSIDE DIAMETER	W	WITH
IF	INSIDE FACE	WO	WITHOUT
INFO	INFORMATION	WL	WIND LOAD
INSUL	INSULATION	WP	WORKING POINT
INT	INTERIOR	WT	WEIGHT
J			

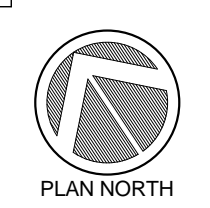
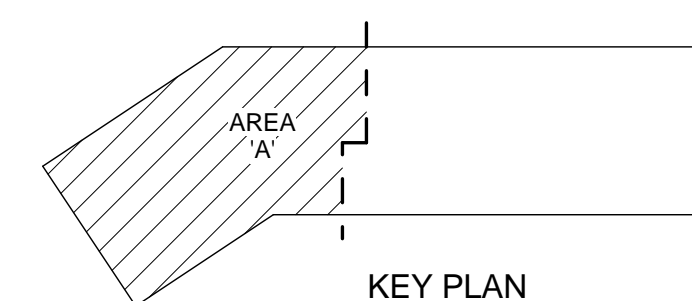
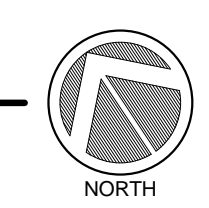
FOUNDATION PLAN - GENERAL NOTES @ EXTERIOR WALLS:

1. T/FTG = 88'-0" UNO.
2. EXTERIOR WALL FOOTINGS SHALL BE CF3.0 UNO.
3. STOOP WALL FOOTINGS SHALL BE CF1.8 UNO.
4. SEE DETAILS 1/SS01 AND 2/SS01 FOR CONSTRUCTION AND CONTROL JOINTS FOR SLAB ON GRADE.
5. SLAB ON GRADE: 4" CONCRETE SLAB WITH FIBER MESH REINFORCEMENT. PROVIDE 6" COMPACTED GRANULAR FILL. T/S LAB = 89'-0" U.N.O.
6. SEE DETAIL 3/SS01 FOR STEP FOOTING DETAIL.
7. SEE ARCHITECTURAL DRAWINGS FOR ALL SLAB SLOPES AND FLOOR DRAINS.
8. SEE SHEET S000 FOR GENERAL STRUCTURAL NOTES.
9. SEE SHEET S001 FOR SCHEDULES AND ABBREVIATIONS.
10. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

ALL STEEL IN CONTACT WITH TREATED WOOD (CONNECTORS, JOIST HANGERS, NAILS, SCREWS, ANCHOR BOLTS ETC.) SHALL BE STAINLESS STEEL OR GALVANIZED TO THE REQUIREMENTS LISTED IN THE WOOD SECTION OF THE STRUCTURAL NOTES.



1 FOUNDATION PLAN - AREA 'A'  
S100 SCALE: 1/8" = 1'-0"



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

Signature: *Kesh Ramdular*  
Printed Name: Kesh Ramdular  
License No.: 16256  
Date: 09/30/2016

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Project No: 1602  
Project Manager: DAS  
Drawn By: SR  
Date: 09/30/2016

Date	Description



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New Apartment Complex:

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Foundation Plan - Area A

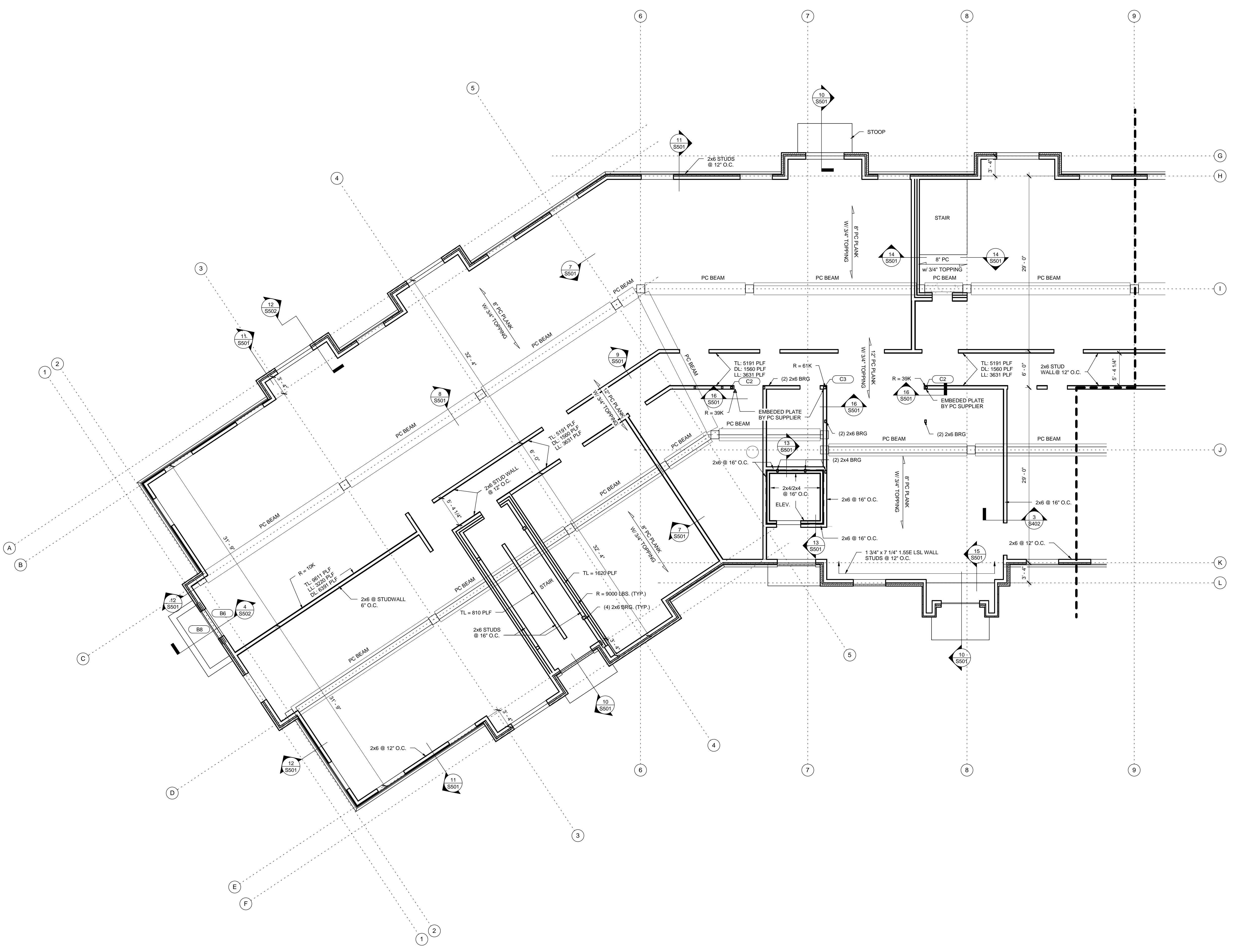
S100



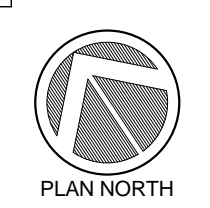
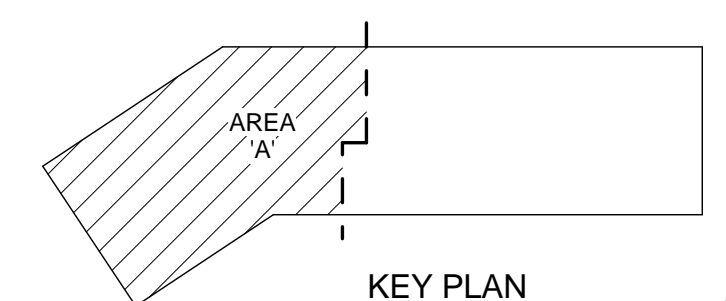
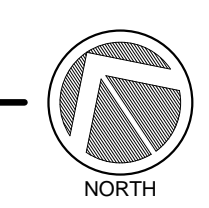
FLOOR FRAMING PLAN NOTES:

- 1ST FLOOR TOP OF PLANK = 100'-0"
- 2ND FLOOR TOP OF SHEATHING = 111'-1 7/8"
- 3RD FLOOR TOP OF SHEATHING = 121'-3 3/4"
- 4TH FLOOR TOP OF SHEATHING = 131'-5 5/8"
- FLOOR SHEATHING TO BE 3/4" TONGUE AND GROOVE PLYWOOD GLUED AND NAILLED. (SEE SPECIFICATIONS)
- ALL FLOOR AREA TO HAVE 3" GYPCRETE UNO. (SEE ARCH)
- PROVIDE BRIDGING FOR FLOOR TRUSSES ACCORDING TO MANUFACTURER'S RECOMMENDATION.
- DIMENSIONAL LUMBER FLOOR JOISTS TO HAVE BRIDGING AT INTERVALS NOT TO EXCEED 8'-0"
- SEE ARCH FOR ALL OPENING SIZES AND LOCATIONS.
- ALL INTERIOR STEEL BEAMS TO HAVE 2x WOOD TOP PLATES WITH 1/2" DIA THROUGH BOLTS AT 48" O.C., STAGGERED.
- COORDINATE ALL TRUSSES WITH PLUMBING LOCATIONS.
- ADJUST TRUSS SPACING AS NECESSARY FOR LOAD AND DEFLECTION REQUIREMENTS (MAX 24" O.C.)
- ALL TRUSSES AND/OR ENGINEERED FLOORS TO BE DESIGNED FOR:
  - LIVE LOAD DEFLECTION OF L/480 FOR RESIDENT UNITS.
  - LIVE LOAD DEFLECTION OF L/360 FOR 100 PSF LOAD AREAS.
- SEE DETAIL 15/5502 FOR CONT BLOCKING REQUIREMENTS IN TRUSS SPACE.
- SEE SHEET 3000 FOR IRC NAILING SCHEDULE.
- PROVIDE CONT 2x12 RIBBON AT INTERIOR CORRIDOR.
- PROVIDE CONT 2x6 RIBBON AT EXTERIOR WALLS.
- EXTERIOR SHEATHING SHALL BE 7/16" APA RATED SHEATHING NAILS @ 6" OC AT EDGE & 12" OC FIELD UNO
- BEARING STUDS TO BE CONTINUOUS DOWN TO FOUNDATION LEVEL.

ALL STEEL IN CONTACT WITH TREATED WOOD (CONNECTORS, JOIST HANGERS, NAILS, SCREWS, ANCHOR BOLTS ETC.) SHALL BE STAINLESS STEEL OR GALVANIZED TO THE REQUIREMENTS LISTED IN THE WOOD SECTION OF THE STRUCTURAL NOTES.



1 FIRST FLOOR FRAMING PLAN - AREA 'A'  
S102 SCALE: 1/8" = 1'-0"



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

Signature: *Kesh Ramdular*  
 Printed Name: Kesh Ramdular  
 License No.: 16256  
 Date: 09/30/2016

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Project No: 1602  
 Project Manager: DAS  
 Drawn By: SR  
 Date: 09/30/2016

Date	Description



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 hma@hma-archs.com

New Apartment Complex:

Rivers Ridge  
 Luxury  
 Apartments

Red Wing, MN

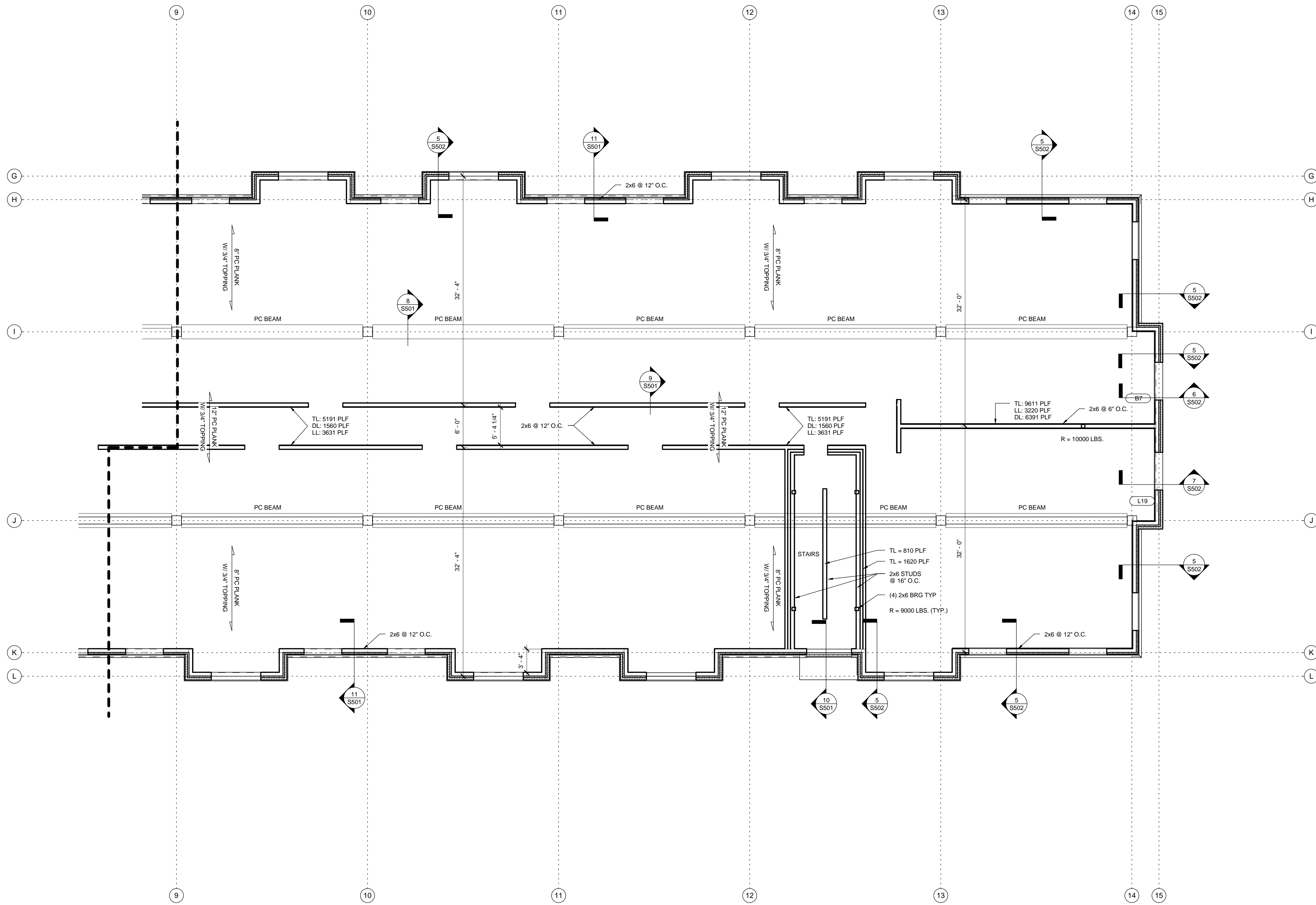
First Floor Framing Plan -  
 Area A

S102

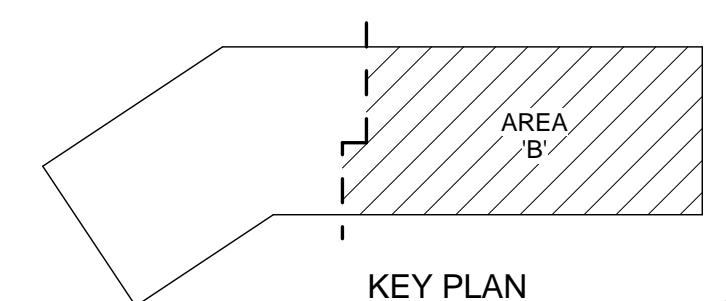
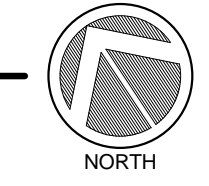
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- ALL FLOOR AREA TO HAVE 3" CYCLOTE UNO. (SEE ARCH)
- PROVIDE BRIDGING FOR FLOOR TRUSSES ACCORDING TO MANUFACTURER'S RECOMMENDATION.
- DIMENSIONAL LUMBER FLOOR JOISTS TO HAVE BRIDGING AT INTERVALS NOT TO EXCEED 8'-0"
- SEE ARCH FOR ALL OPENING SIZES AND LOCATIONS.
- ALL INTERIOR STEEL BEAMS TO HAVE 2x WOOD TOP PLATES WITH 1/2" DIA THROUGH BOLTS AT 48" O.C., STAGGERED.
- COORDINATE ALL TRUSSES WITH PLUMBING LOCATIONS.
- ADJUST TRUSS SPACING AS NECESSARY FOR LOAD AND DEFLECTION REQUIREMENTS (MAX 24" O.C.)
- ALL TRUSSES AND/OR ENGINEERED FLOORS TO BE DESIGNED FOR:
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  - LIVE LOAD DEFLECTION OF L/360 FOR 100 PSF LOAD AREAS.
- SEE DETAIL 15/S502 FOR CONT BLOCKING REQUIREMENTS IN TRUSS SPACE.
- SEE SHEET S000 FOR IBC NAILING SCHEDULE.
- PROVIDE CONT 2x12 RIBBON AT INTERIOR CORRIDOR.
- PROVIDE CONT 2x6 RIBBON AT EXTERIOR WALLS.
- EXTERIOR SHEATHING SHALL BE 7/16" APA RATED SHEATHING NAILS @ 6" OC AT EDGE & 12" OC FIELD UNO
- BEARING STUDS TO BE CONTINUOUS DOWN TO FOUNDATION LEVEL.

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1 FIRST FLOOR FRAMING PLAN - AREA 'B'  
S103 SCALE: 1/8" = 1'-0"



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New Apartment Complex:

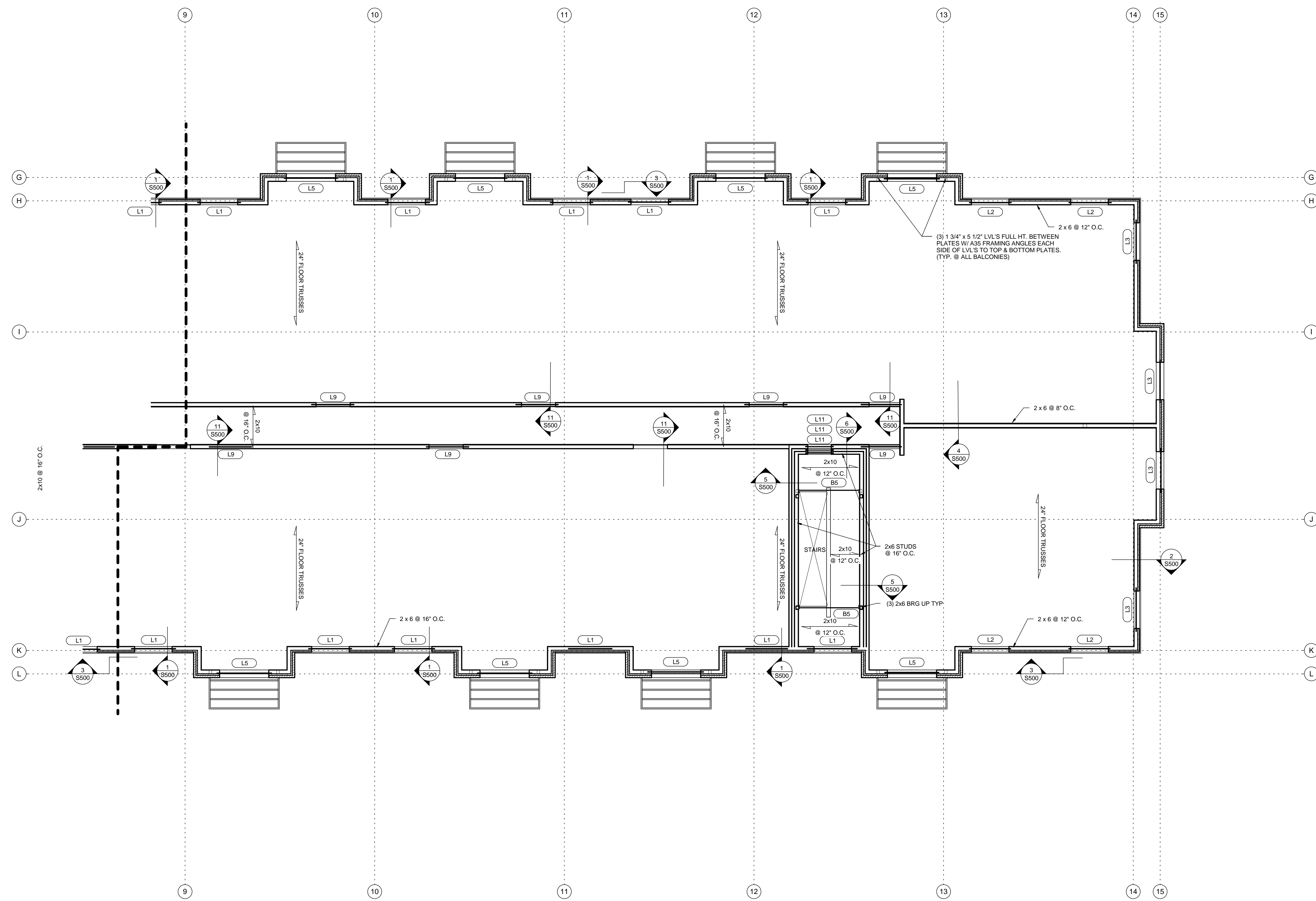
Rivers Ridge  
 Luxury  
 Apartments

Red Wing, MN

First Floor Framing Plan -  
 Area B

S103

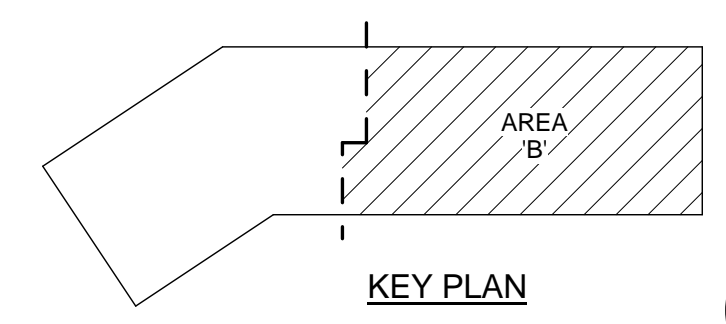
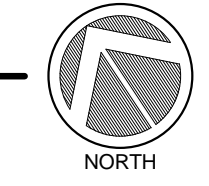




- FLOOR FRAMING PLAN NOTES:**
- 1ST FLOOR TOP OF PLANK = 100'-0"
  - 2ND FLOOR TOP OF SHEATHING = 111'-1 7/8"
  - 3RD FLOOR TOP OF SHEATHING = 121'-3 3/4"
  - 4TH FLOOR TOP OF SHEATHING = 131'-5 5/8"
  - FLOOR SHEATHING TO BE 3/4" TONGUE AND GROOVE PLYWOOD GLUED AND NAILLED. (SEE SPECIFICATIONS)
  - ALL FLOOR AREA TO HAVE 3/4" GYPCRETE UNO. (SEE ARCH)
  - PROVIDE BRIDGING FOR FLOOR TRUSSES ACCORDING TO MANUFACTURER'S RECOMMENDATION.
  - DIMENSIONAL LUMBER FLOOR JOISTS TO HAVE BRIDGING AT INTERVALS NOT TO EXCEED 8'-0"
  - SEE ARCH FOR ALL OPENING SIZES AND LOCATIONS.
  - ALL INTERIOR STEEL BEAMS TO HAVE 2x WOOD TOP PLATES WITH 1/2" DIA THROUGH BOLTS AT 48" O.C., STAGGERED.
  - COORDINATE ALL TRUSSES WITH PLUMBING LOCATIONS.
  - ADJUST TRUSS SPACING AS NECESSARY FOR LOAD AND DEFLECTION REQUIREMENTS (MAX 24" O.C.)
  - ALL TRUSSES AND/OR ENGINEERED FLOORS TO BE DESIGNED FOR:
    - LIVE LOAD DEFLECTION OF L/480 FOR RESIDENTIAL UNITS.
    - LIVE LOAD DEFLECTION OF L/360 FOR 100 PSF LOAD AREAS.
  - SEE DETAIL 15/5502 FOR CONT BLOCKING REQUIREMENTS IN TRUSS SPACE.
  - SEE SHEET 5000 FOR IRC NAILING SCHEDULE.
  - PROVIDE CONT 2x12 RIBBON AT INTERIOR CORRIDOR.
  - PROVIDE CONT 2x6 RIBBON AT EXTERIOR WALLS.
  - EXTERIOR SHEATHING SHALL BE 7/16" APA RATED SHEATHING NAILS @ 6" OC AT EDGE & 12" OC FIELD UNO
  - BEARING STUDS TO BE CONTINUOUS DOWN TO FOUNDATION LEVEL.

ALL STEEL IN CONTACT WITH TREATED WOOD (CONNECTORS, JOIST HANGERS, NAILS, SCREWS, ANCHOR BOLTS ETC.) SHALL BE STAINLESS STEEL OR GALVANIZED TO THE REQUIREMENTS LISTED IN THE WOOD SECTION OF THE STRUCTURAL NOTES.

1 SECOND FLOOR FRAMING PLAN - AREA 'B'  
S105 SCALE: 1/8" = 1'-0"



**Lumber One, Avon**  
181 3rd St NW  
PO Box 7  
Avon, MN 56310  
Office: (507) 355-7342  
Toll Free: (888) 555-7342  
Fax: (507) 356-7351  
www.lumber-one.com

**Larson Engineering, Inc.**  
3524 Lacore Road  
White Bear Lake, MN 55110-5126  
651-481-9120 Fax: 651-481-9201  
www.larsonengr.com

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Signature: *Kesh Ramdular*  
Printed Name: Kesh Ramdular  
License No.: 16256  
Date: 09/30/2016

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Project No: 1602  
Project Manager: DAS  
Drawn By: SR  
Date: 09/30/2016

Date	Description

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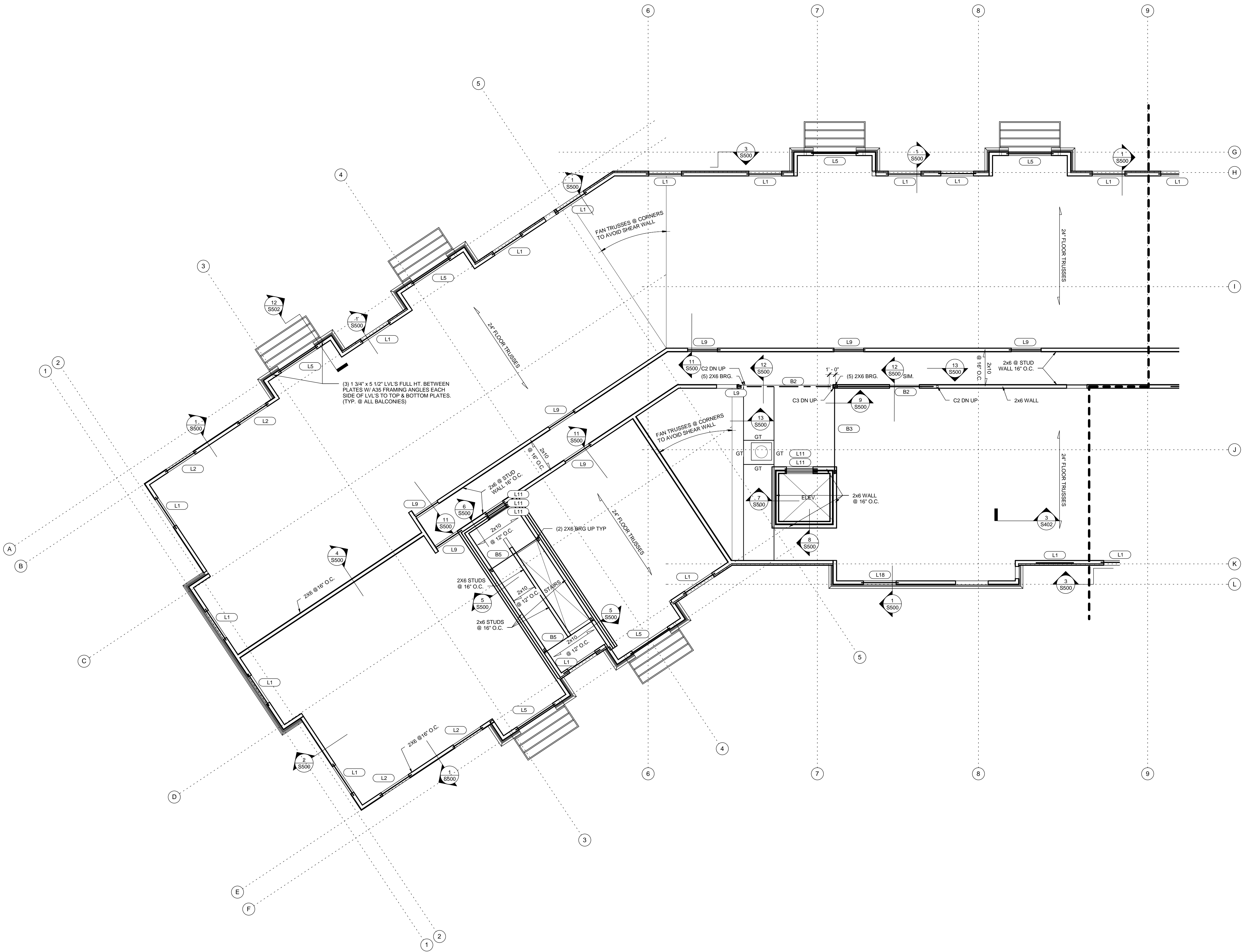
New Apartment Complex:

**Rivers Ridge  
Luxury  
Apartments**

Red Wing, MN

Second Floor Framing  
Plan - Area B

**S105**

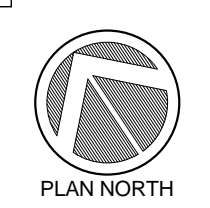
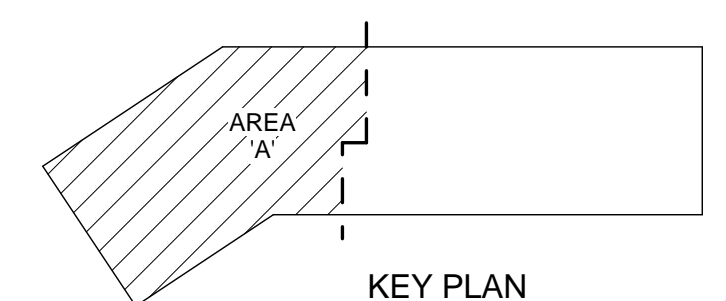
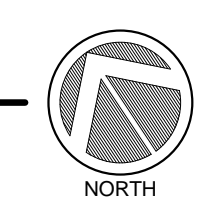


**FLOOR FRAMING PLAN NOTES:**

1. 1ST FLOOR TOP OF PLANK = 100'-0"
2. 2ND FLOOR TOP OF SHEATHING = 111'-1 7/8"
3. 3RD FLOOR TOP OF SHEATHING = 121'-3 3/4"
4. 4TH FLOOR TOP OF SHEATHING = 131'-5 9/8"
5. FLOOR SHEATHING TO BE 3/4" TONGUE AND GROOVE PLYWOOD GLUED AND NAILED. (SEE SPECIFICATIONS)
6. ALL FLOOR AREA TO HAVE 3" GYPCRETE UNO. (SEE ARCH)
7. PROVIDE BRIDGING FOR FLOOR TRUSSES ACCORDING TO MANUFACTURER'S RECOMMENDATION.
8. DIMENSIONAL LUMBER FLOOR JOISTS TO HAVE BRIDGING AT INTERVALS NOT TO EXCEED 8'-0"
9. SEE ARCH FOR ALL OPENING SIZES AND LOCATIONS.
10. ALL INTERIOR STEEL BEAMS TO HAVE 2x WOOD TOP PLATES WITH 1/2" DIA THROUGH BOLTS AT 48" O.C. STAGGERED.
11. COORDINATE ALL TRUSSES WITH PLUMBING LOCATIONS.
12. ADJUST TRUSS SPACING AS NECESSARY FOR LOAD AND DEFLECTION REQUIREMENTS (MAX 24" O.C.)
13. ALL TRUSSES AND/OR ENGINEERED FLOORS TO BE DESIGNED FOR:
  - a. LIVE LOAD DEFLECTION OF L/480 FOR RESIDENT UNITS.
  - b. LIVE LOAD DEFLECTION OF L/360 FOR 100 PSF LOAD AREAS.
14. SEE DETAIL 15/5502 FOR CONT BLOCKING REQUIREMENTS IN TRUSS SPACE.
15. SEE SHEET 5000 FOR IBC NAILING SCHEDULE.
16. PROVIDE CONT 2x12 RIBBON AT INTERIOR CORRIDOR.
17. PROVIDE CONT 2x6 RIBBON AT EXTERIOR WALLS.
18. EXTERIOR SHEATHING SHALL BE 7/16" APA RATED SHEATHING NAILS @ 6" OC AT EDGE & 12" OC FIELD UNO
19. BEARING STUDS TO BE CONTINUOUS DOWN TO FOUNDATION LEVEL.

ALL STEEL IN CONTACT WITH TREATED WOOD (CONNECTORS, JOIST HANGERS, NAILS, SCREWS, ANCHOR BOLTS ETC.) SHALL BE STAINLESS STEEL OR GALVANIZED TO THE REQUIREMENTS LISTED IN THE WOOD SECTION OF THE STRUCTURAL NOTES.

1 THIRD FLOOR FRAMING PLAN - AREA 'A'  
S106 SCALE: 1/8" = 1'-0"



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

Signature: *Kesh Ramdular*  
 Printed Name: Kesh Ramdular  
 License No.: 16256  
 Date: 09/30/2016

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Project No: 1602  
 Project Manager: DAS  
 Drawn By: SR  
 Date: 09/30/2016

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 hma@hma-archs.com

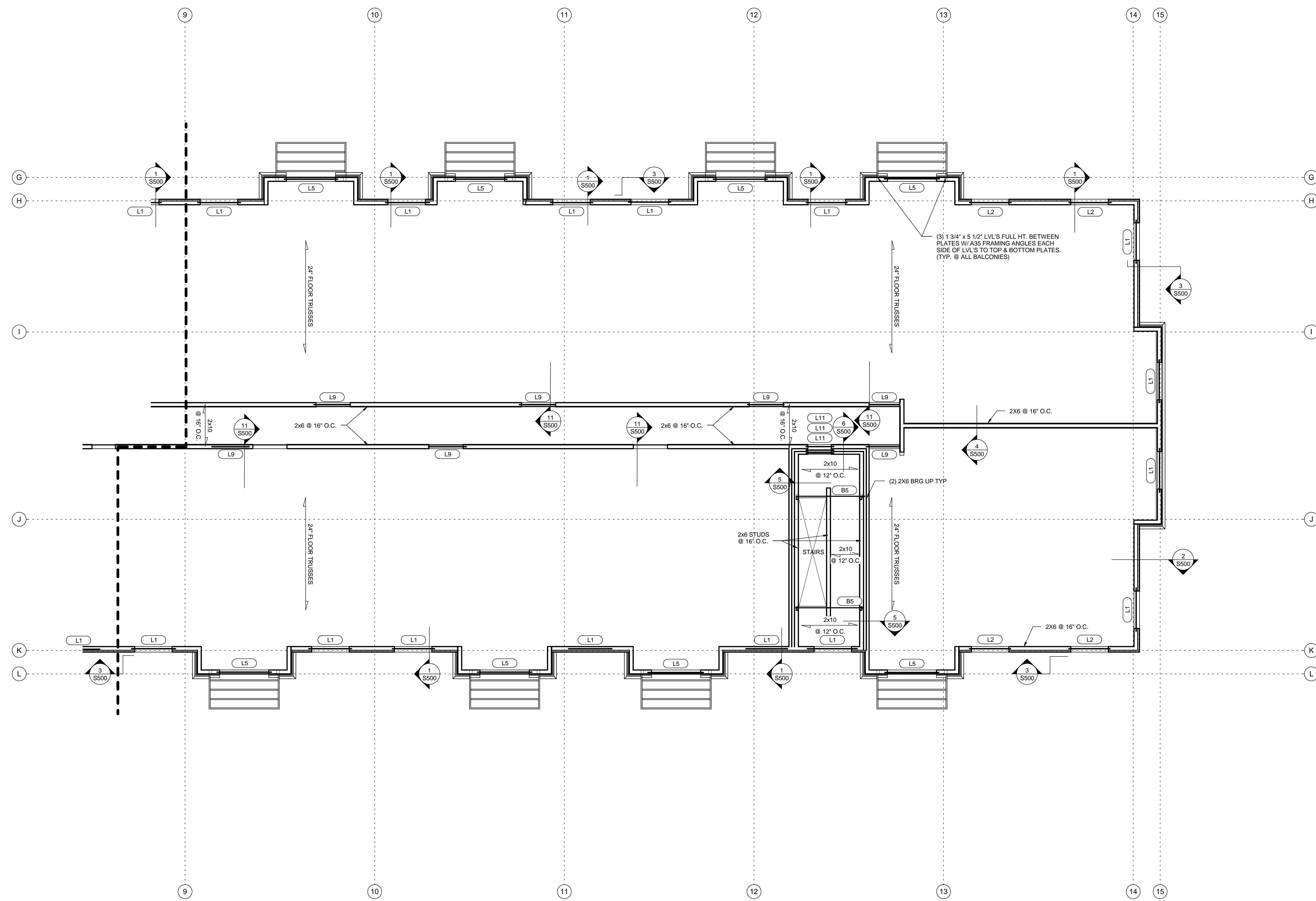
New Apartment Complex:

**Rivers Ridge  
 Luxury  
 Apartments**

Red Wing, MN

Third Floor Framing Plan -  
 Area A

**S106**



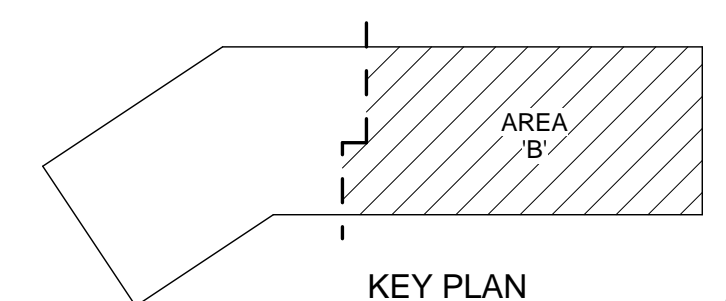
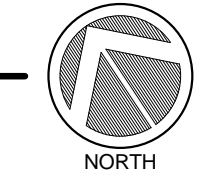
**FLOOR FRAMING PLAN NOTES:**

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8. DIMENSIONAL LUMBER FLOOR JOISTS TO HAVE BRIDGING AT INTERVALS NOT TO EXCEED 8'-0"
9. SEE ARCH FOR ALL OPENING SIZES AND LOCATIONS.
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  - b. LIVE LOAD DEFLECTION OF L/360 FOR 100 PSF LOAD AREAS.
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15. SEE SHEET 5000 FOR IRC NAILING SCHEDULE.
16. PROVIDE CONT 2x12 RIBBON AT INTERIOR CORRIDOR.
17. PROVIDE CONT 2x6 RIBBON AT EXTERIOR WALLS.
18. EXTERIOR SHEATHING SHALL BE 7/16" APA RATED SHEATHING NAILS @ 6" OC AT EDGE & 12" OC FIELD UNO.
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(3) 1 3/4" x 5 1/2" LVL'S FULL HT. BETWEEN PLATES W/ A36 FRAMING ANGLES EACH SIDE OF LVL'S TO TOP & BOTTOM PLATES. (TYP. @ ALL BALCONIES)

1 THIRD FLOOR FRAMING PLAN - AREA 'B'  
S107 SCALE: 1/8" = 1'-0"



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New Apartment Complex:

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 Luxury  
 Apartments**

Red Wing, MN

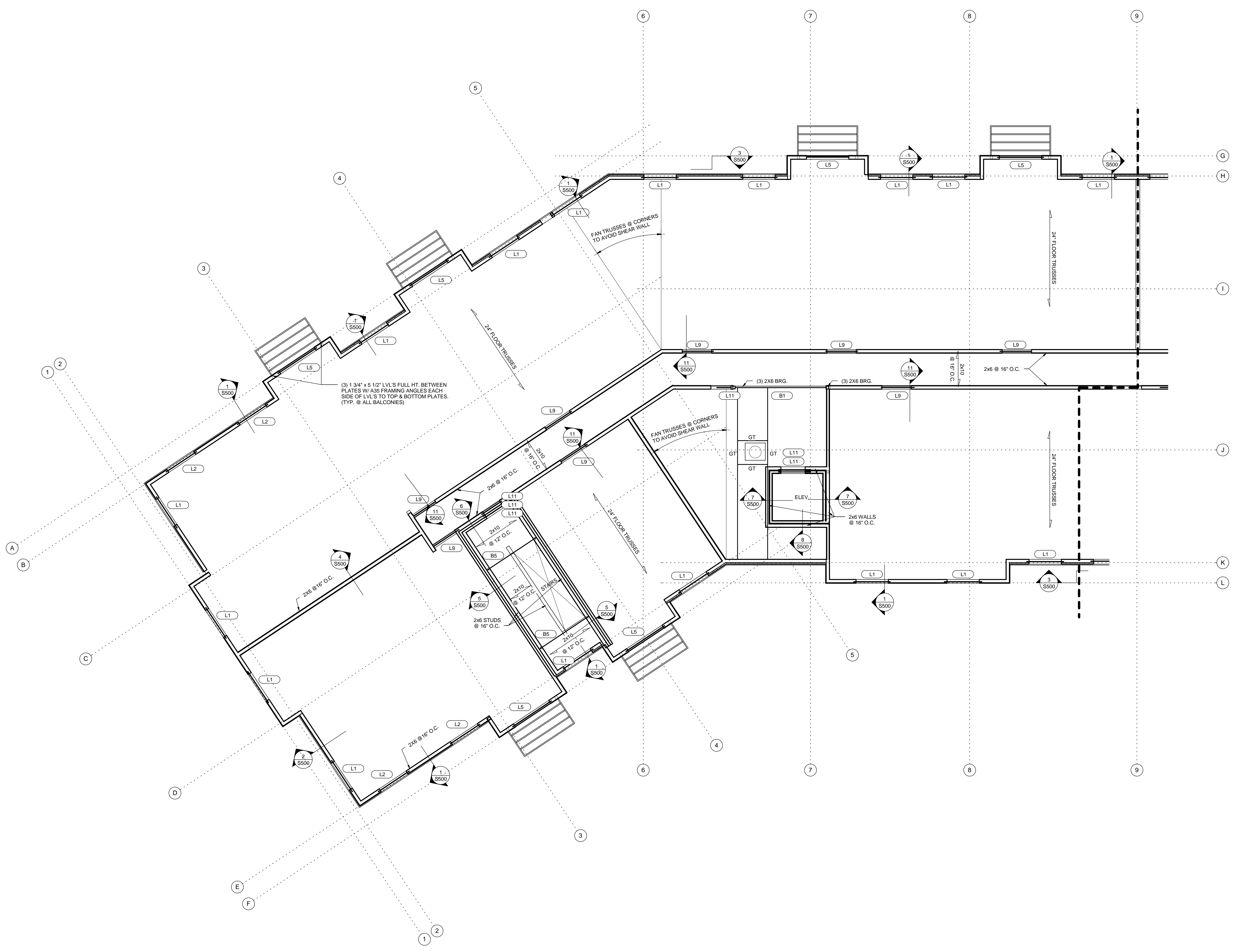
Third Floor Framing Plan -  
 Area B

**S107**

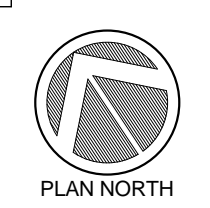
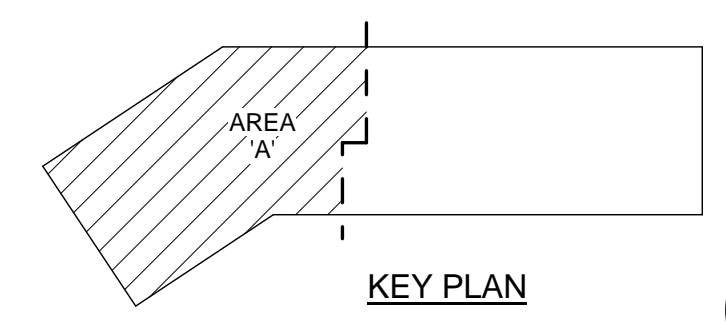
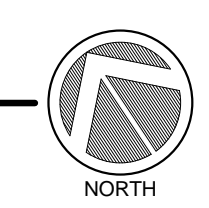
FLOOR FRAMING PLAN NOTES:

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6. ALL FLOOR AREA TO HAVE 3" GYPCRETE UNO. (SEE ARCH)
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8. DIMENSIONAL LUMBER FLOOR JOISTS TO HAVE BRIDGING AT INTERVALS NOT TO EXCEED 8'-0"
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  - b. LIVE LOAD DEFLECTION OF L/360 FOR 100 PSF LOAD AREAS.
14. SEE DETAIL 15/5502 FOR CONT BLOCKING REQUIREMENTS IN TRUSS SPACE.
15. SEE SHEET 5000 FOR IBC NAILING SCHEDULE.
16. PROVIDE CONT 2x12 RIBBON AT INTERIOR CORRIDOR.
17. PROVIDE CONT 2x6 RIBBON AT EXTERIOR CORRIDOR.
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1 FOURTH FLOOR FRAMING PLAN - AREA A  
S108 SCALE: 1/8" = 1'-0"



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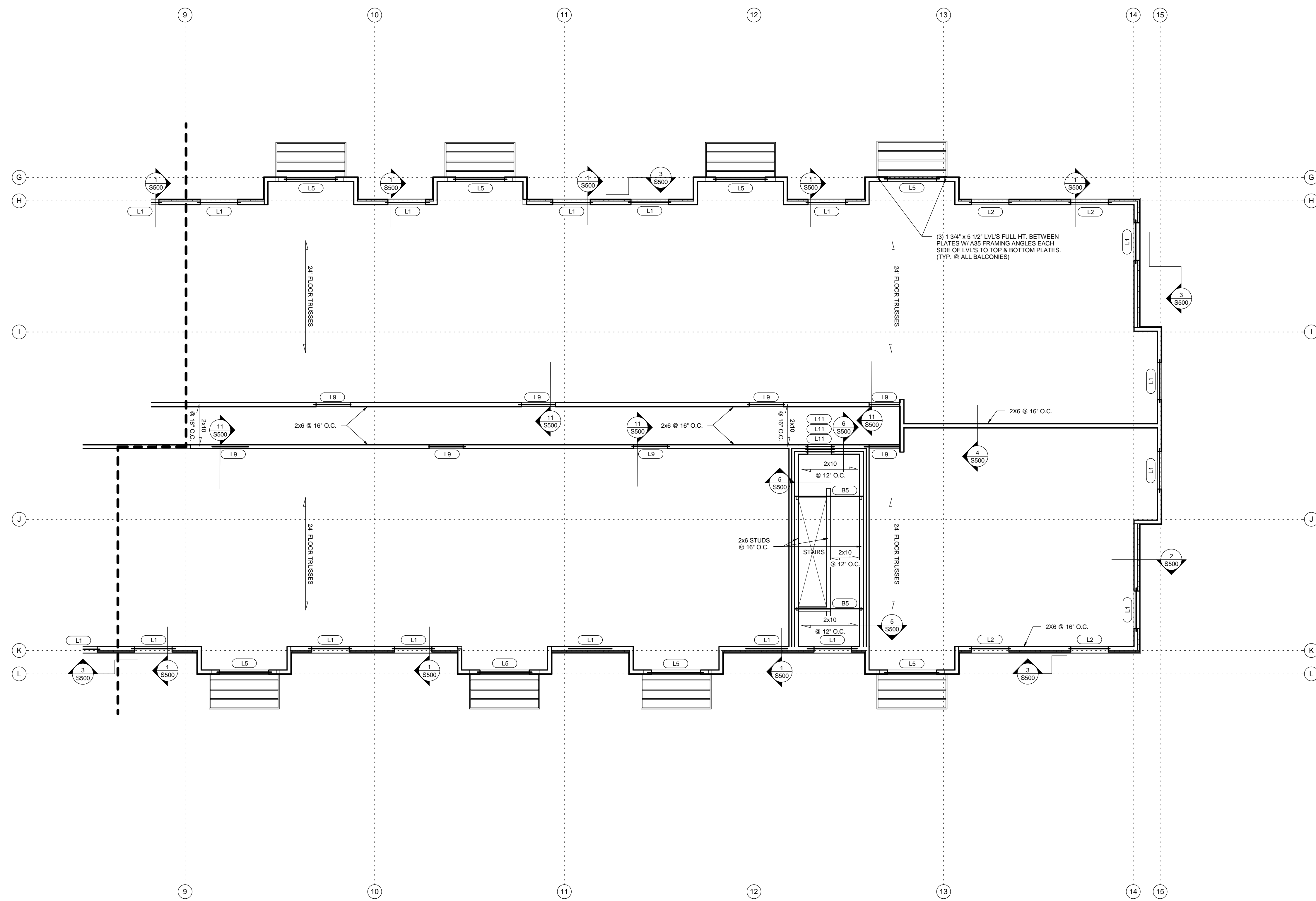
New Apartment Complex:

Rivers Ridge  
 Luxury  
 Apartments

Red Wing, MN

Fourth Floor Framing Plan  
 - Area A

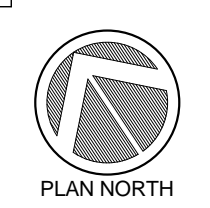
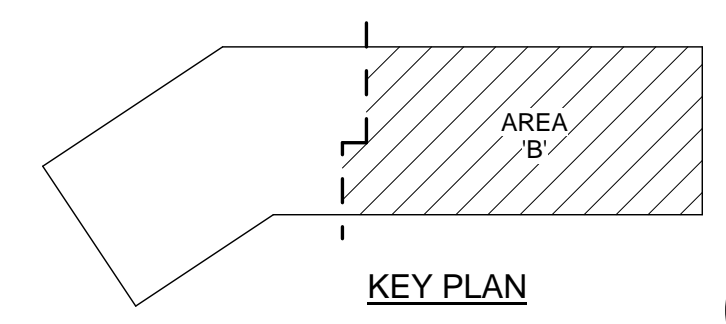
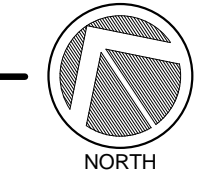
S108



- FLOOR FRAMING PLAN NOTES:**
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  - 3RD FLOOR TOP OF SHEATHING = 121'-3 3/4"
  - 4TH FLOOR TOP OF SHEATHING = 131'-5 5/8"
  - FLOOR SHEATHING TO BE 3/4" TONGUE AND GROOVE PLYWOOD GLUED AND NAILED. (SEE SPECIFICATIONS)
  - ALL FLOOR AREA TO HAVE 3" GYPCRETE UNO. (SEE ARCH)
  - PROVIDE BRIDGING FOR FLOOR TRUSSES ACCORDING TO MANUFACTURER'S RECOMMENDATION.
  - DIMENSIONAL LUMBER FLOOR JOISTS TO HAVE BRIDGING AT INTERVALS NOT TO EXCEED 8'-0"
  - SEE ARCH FOR ALL OPENING SIZES AND LOCATIONS.
  - ALL INTERIOR STEEL BEAMS TO HAVE 2x WOOD TOP PLATES WITH 1/2" DIA THROUGH BOLTS AT 48" O.C., STAGGERED.
  - COORDINATE ALL TRUSSES WITH PLUMBING LOCATIONS.
  - ADJUST TRUSS SPACING AS NECESSARY FOR LOAD AND DEFLECTION REQUIREMENTS (MAX 24" O.C.)
  - ALL TRUSSES AND/OR ENGINEERED FLOORS TO BE DESIGNED FOR:
    - LIVE LOAD DEFLECTION OF L/80 FOR RESIDENT UNITS.
    - LIVE LOAD DEFLECTION OF L/360 FOR 100 PSF LOAD AREAS.
  - SEE DETAIL 15/5502 FOR CONT BLOCKING REQUIREMENTS IN TRUSS SPACE.
  - SEE SHEET 5000 FOR IBC NAILING SCHEDULE.
  - PROVIDE CONT 2x12 RIBBON AT INTERIOR CORRIDOR.
  - PROVIDE CONT 2x6 RIBBON AT EXTERIOR WALLS.
  - EXTERIOR SHEATHING SHALL BE 7/16" APA RATED SHEATHING NAILS @ 6" OC AT EDGE & 12" OC FIELD UNO
  - BEARING STUDS TO BE CONTINUOUS DOWN TO FOUNDATION LEVEL.

ALL STEEL IN CONTACT WITH TREATED WOOD (CONNECTORS, JOIST HANGERS, NAILS, SCREWS, ANCHOR BOLTS ETC.) SHALL BE STAINLESS STEEL OR GALVANIZED TO THE REQUIREMENTS LISTED IN THE WOOD SECTION OF THE STRUCTURAL NOTES.

1 FOURTH FLOOR FRAMING PLAN - AREA 'B'  
S109 SCALE: 1/8" = 1'-0"



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Signature: *Kesh Ramdular*  
 Printed Name: Kesh Ramdular  
 License No.: 16256  
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 Project Manager: DAS  
 Drawn By: SR  
 Date: 09/30/2016

Date	Description



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New Apartment Complex:

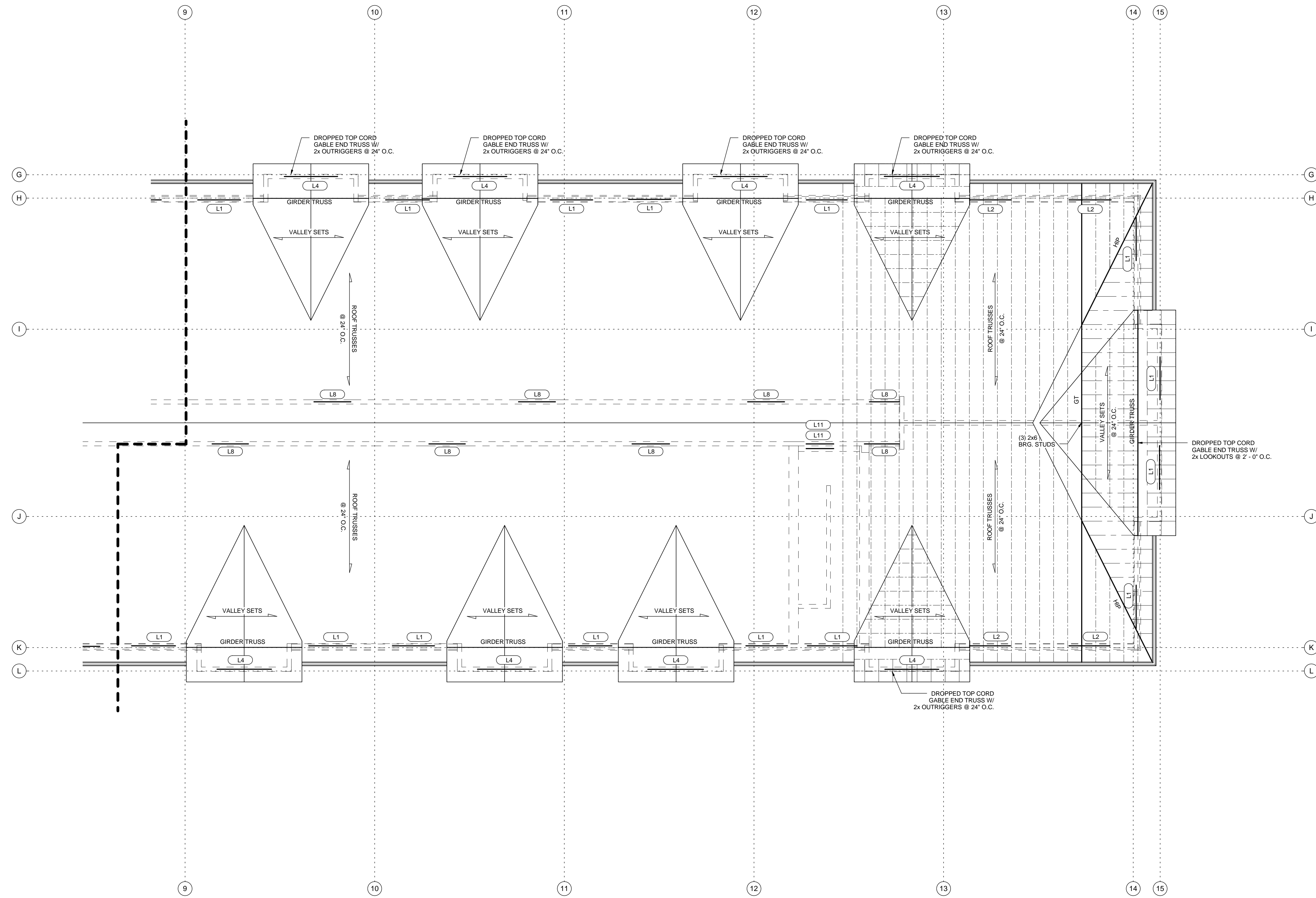
Rivers Ridge  
 Luxury  
 Apartments

Red Wing, MN

Fourth Floor Framing Plan  
 - Area B

S109

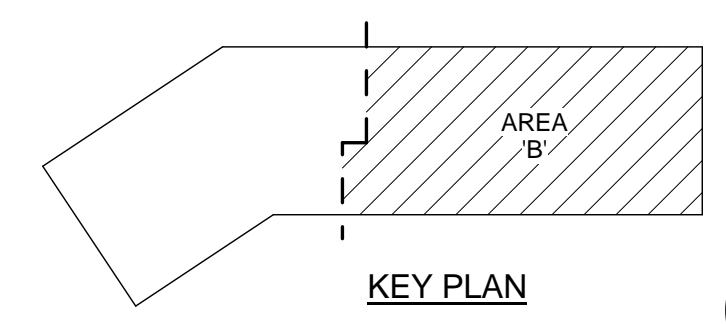




- GENERAL NOTES:**
1. TRUSS BEARING = 130' - 6 3/4", UNLESS NOTED OTHERWISE.
  2. PROVIDE BRIDGING FOR ROOF TRUSSES ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
  3. DIMENSIONAL LUMBER ROOF JOISTS TO HAVE BRIDGING AT INTERVALS NOT TO EXCEED 8' - 0".
  4. TIE NON-BEARING WALLS TO BOTTOM CHORD OF ROOF TRUSS AT 3' - 0" O.C.
  5. ALL BEARING STUDS AT GIRDERS AND OPENINGS CONTINUOUS DOWN TO THE FOUNDATION.
  6. ROOF SHEATHING TO BE 1/2" APA RATED SHEATHING. SEE DETAIL -R502 FOR NAILING PATTERN.
  7. END JOINT OF SHEATHING SHALL BE STAGGERED AND NAILING PATTERN SHALL BE ACCORDING TO THE IBC. SEE SHEET S001 FOR IBC NAILING SCHEDULE.
  8. PLYWOOD CLIPS SHALL BE USED WHEN SUPPORTING MEMBERS ARE SPACED GREATER THAN 16' O.C.
  9. SEE ARCHITECTURAL DRAWINGS FOR ATTIC ACCESS OPENING AND WALL SEPARATION LOCATIONS.
  10. SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
  11. VERIFY ALL OVERHANG AND EAVE CONDITIONS WITH ARCHITECTURAL DRAWINGS.
  12. SEE SHEET S001 FOR SCHEDULES AND ABBREVIATIONS.
  13. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
  14. PROVIDE MINIMUM (2) BRG. STUDS AT ALL GIRDER TRUSSES UNO.

ALL STEEL IN CONTACT WITH TREATED WOOD (CONNECTORS, JOIST HANGERS, NAILS, SCREWS, ANCHOR BOLTS ETC.) SHALL BE STAINLESS STEEL OR GALVANIZED TO THE REQUIREMENTS LISTED IN THE WOOD SECTION OF THE STRUCTURAL NOTES.

1 ROOF FRAMING PLAN - AREA 'B'  
S111 SCALE: 1/8" = 1'-0"



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Signature: *Kesh Ramdular*  
 Printed Name: Kesh Ramdular  
 License No.: 16256  
 Date: 09/30/2016

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 Project Manager: DAS  
 Drawn By: SR  
 Date: 09/30/2016

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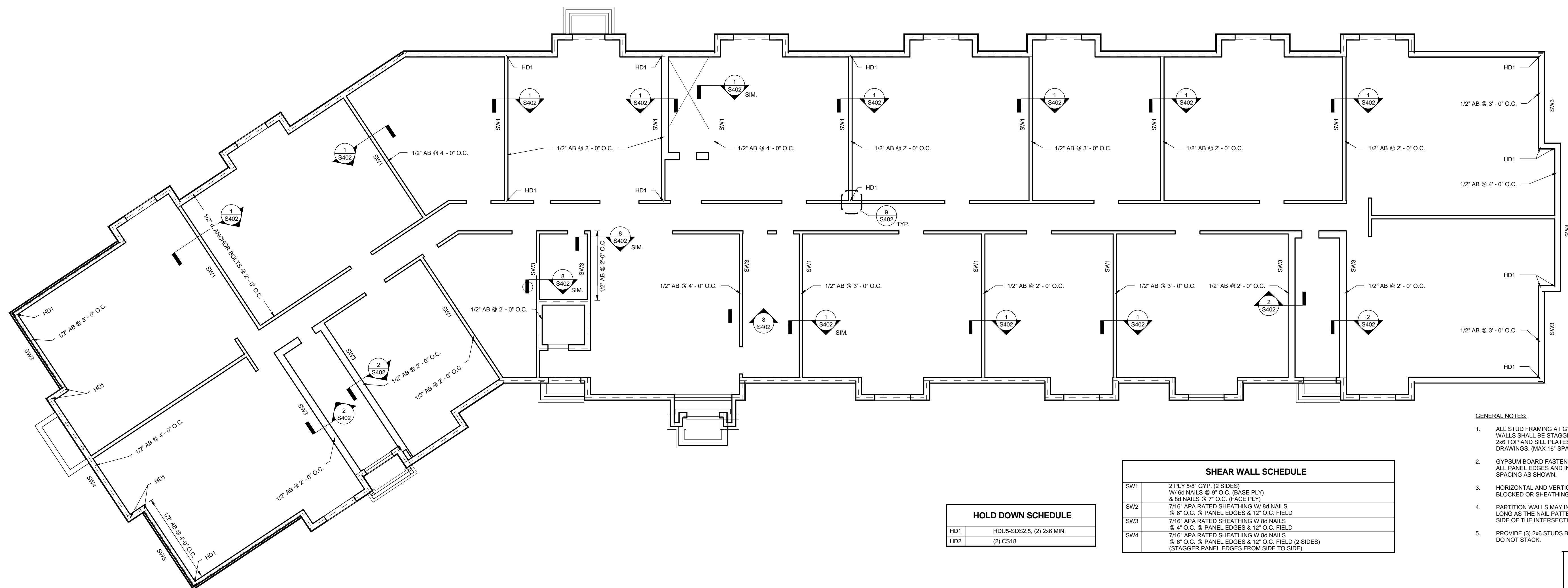
New Apartment Complex:

Rivers Ridge  
 Luxury  
 Apartments

Red Wing, MN

Roof Framing Plan - Area B

S111

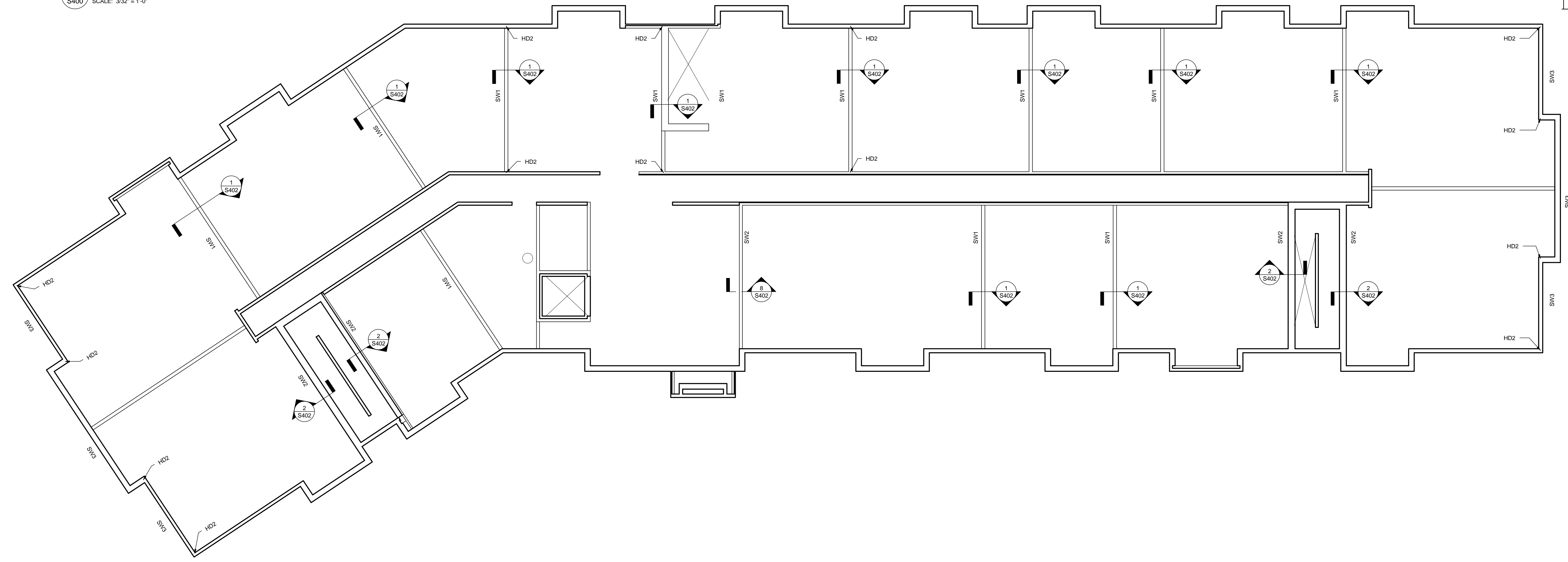
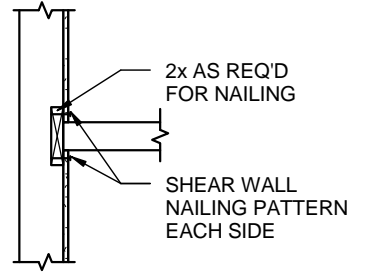


1 FIRST FLOOR SHEAR WALL PLAN  
S400 SCALE: 3/32" = 1'-0"

HOLD DOWN SCHEDULE	
HD1	HDU5-SDS2.5, (2) 2x6 MIN.
HD2	(2) CS18

SHEAR WALL SCHEDULE	
SW1	2 PLY 5/8" GYP (2 SIDES) W/ 8d NAILS @ 7" O.C. (BASE PLY) & 8d NAILS @ 7" O.C. (FACE PLY)
SW2	7/16" APA RATED SHEATHING W/ 8d NAILS @ 6" O.C. @ PANEL EDGES & 12" O.C. FIELD
SW3	7/16" APA RATED SHEATHING W/ 8d NAILS @ 4" O.C. @ PANEL EDGES & 12" O.C. FIELD
SW4	7/16" APA RATED SHEATHING W/ 8d NAILS @ 6" O.C. @ PANEL EDGES & 12" O.C. FIELD (2 SIDES) (STAGGER PANEL EDGES FROM SIDE TO SIDE)

- GENERAL NOTES:**
- ALL STUD FRAMING AT GYPSUM BOARD SHEAR WALLS SHALL BE STAGGERED 2x4 AT 16" O.C. WITH 2x6 TOP AND SILL PLATES. SEE ARCHITECTURAL DRAWINGS. (MAX 16" SPACING OF 2x4s)
  - GYPSUM BOARD FASTENERS SHALL BE PROVIDED AT ALL PANEL EDGES AND INTERMEDIATE STUDS WITH SPACING AS SHOWN.
  - HORIZONTAL AND VERTICAL JOINTS MUST BE BLOCKED OR SHEATHING APPLIED VERTICALLY.
  - PARTITION WALLS MAY INTERSECT SHEAR WALLS AS LONG AS THE NAIL PATTERN IS FOLLOWED ON EACH SIDE OF THE INTERSECTION AS SHOWN BELOW.
  - PROVIDE (3) 2x6 STUDS BELOW ALL SHEAR WALLS THAT DO NOT STACK.



2 SECOND FLOOR SHEAR WALL PLAN  
S400 SCALE: 3/32" = 1'-0"



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Printed Name: Kesh Ramdular  
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Drawn By: SR  
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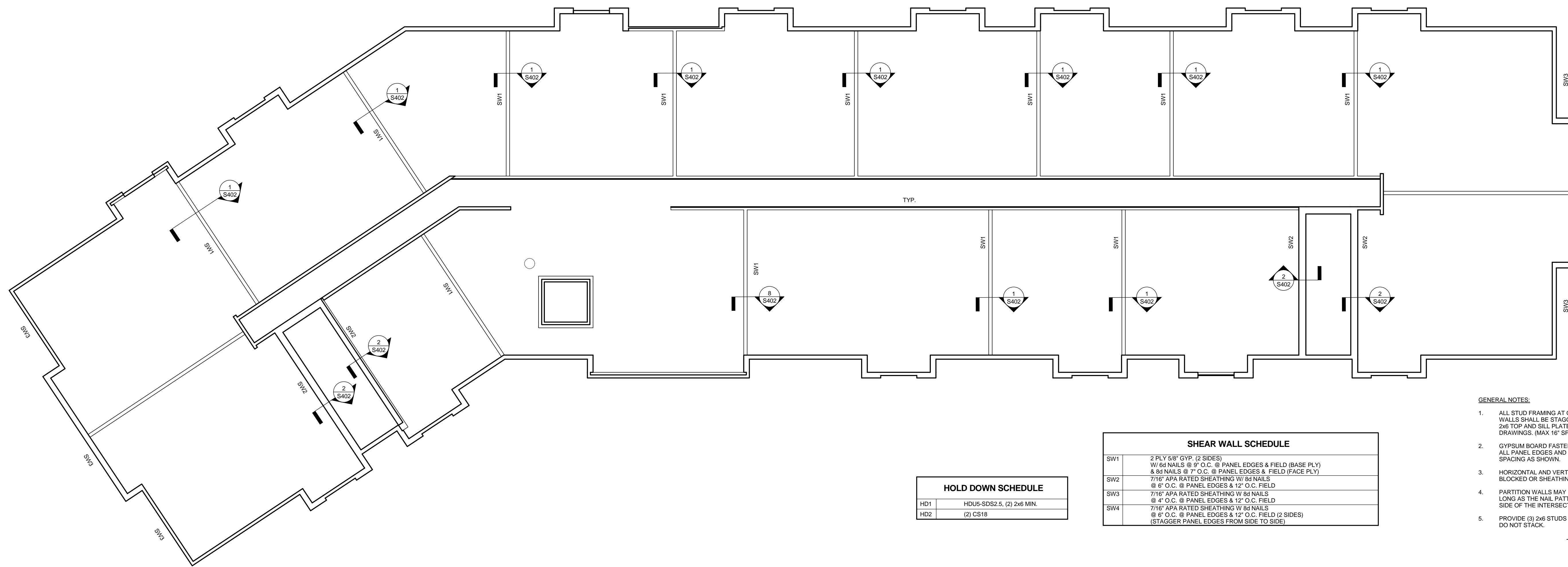
New Apartment Complex:

**Rivers Ridge  
Luxury  
Apartments**

Red Wing, MN

Shear Wall Plans

**S400**

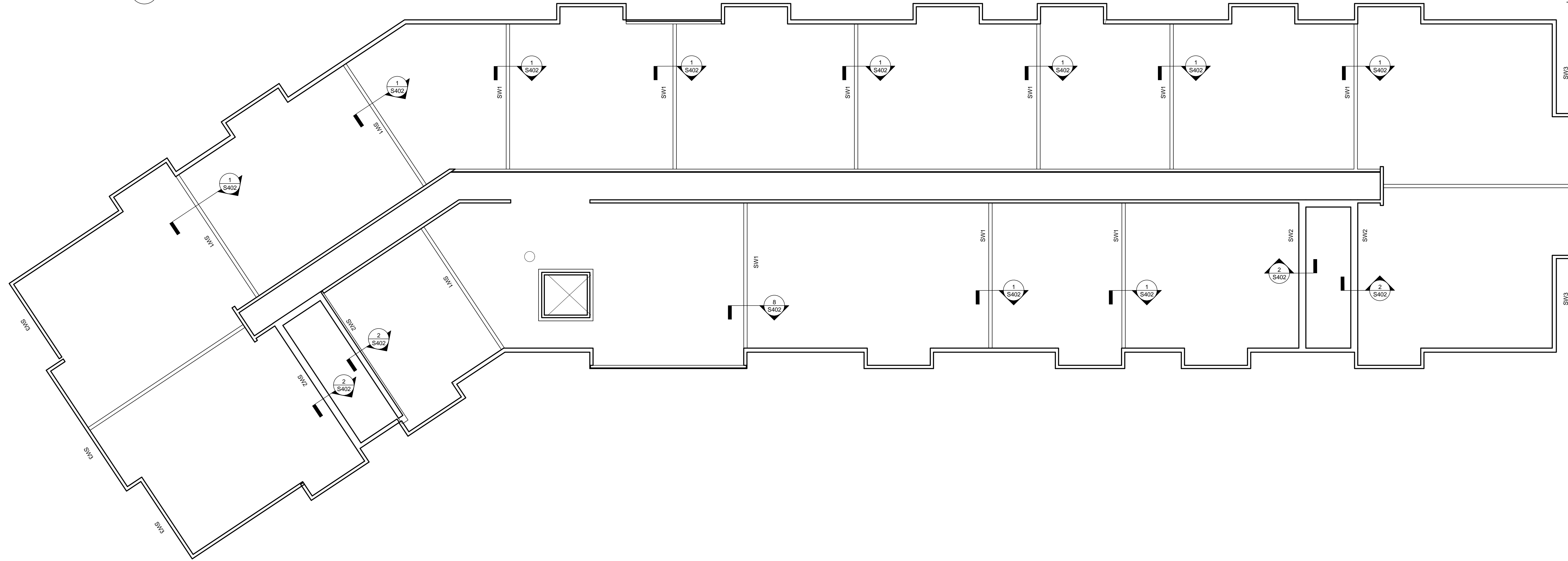
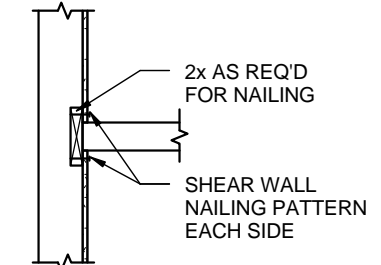


1 THIRD FLOOR SHEAR WALL PLAN  
SCALE: 3/32" = 1'-0"

HOLD DOWN SCHEDULE	
HD1	HDU5-SDS2.5, (2) 2x6 MIN.
HD2	(2) CS18

SHEAR WALL SCHEDULE	
SW1	2 PLY 5/8" GYP. (2 SIDES) W/ 6d NAILS @ 9" O.C. @ PANEL EDGES & FIELD (BASE PLY) & 8d NAILS @ 7" O.C. @ PANEL EDGES & FIELD (FACE PLY)
SW2	7/16" APA RATED SHEATHING W/ 6d NAILS @ 8" O.C. @ PANEL EDGES & 12" O.C. FIELD
SW3	7/16" APA RATED SHEATHING W/ 6d NAILS @ 4" O.C. @ PANEL EDGES & 12" O.C. FIELD
SW4	7/16" APA RATED SHEATHING W/ 6d NAILS @ 8" O.C. @ PANEL EDGES & 12" O.C. FIELD (2 SIDES) (STAGGER PANEL EDGES FROM SIDE TO SIDE)

- GENERAL NOTES:**
- ALL STUD FRAMING AT GYPSUM BOARD SHEAR WALLS SHALL BE STAGGERED 2x4 AT 16" O.C. WITH 2x6 TOP AND SILL PLATES. SEE ARCHITECTURAL DRAWINGS. (MAX 16" SPACING OF 2x4s)
  - GYPSUM BOARD FASTENERS SHALL BE PROVIDED AT ALL PANEL EDGES AND INTERMEDIATE STUDS WITH SPACING AS SHOWN.
  - HORIZONTAL AND VERTICAL JOINTS MUST BE BLOCKED OR SHEATHING APPLIED VERTICALLY.
  - PARTITION WALLS MAY INTERSECT SHEAR WALLS AS LONG AS THE NAIL PATTERN IS FOLLOWED ON EACH SIDE OF THE INTERSECTION AS SHOWN BELOW.
  - PROVIDE (3) 2x6 STUDS BELOW ALL SHEAR WALLS THAT DO NOT STACK.



2 FOURTH FLOOR SHEAR WALL PLAN  
SCALE: 3/32" = 1'-0"



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Drawn By: SR  
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New Apartment Complex:

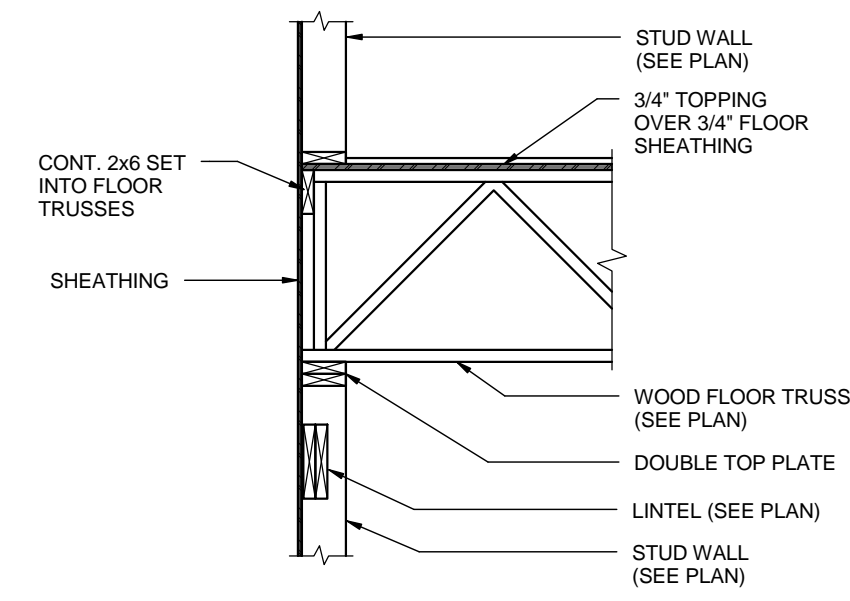
**Rivers Ridge  
Luxury  
Apartments**

Red Wing, MN

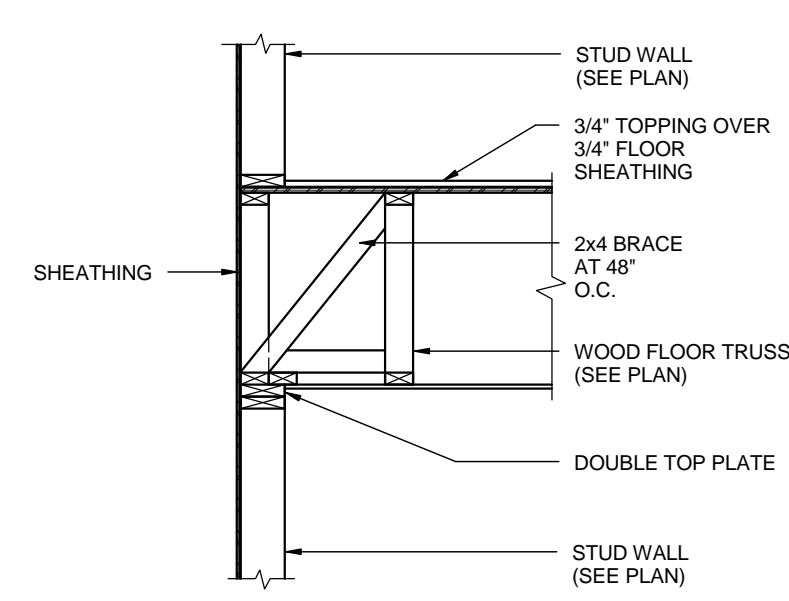
Shear Wall Plans

**S401**

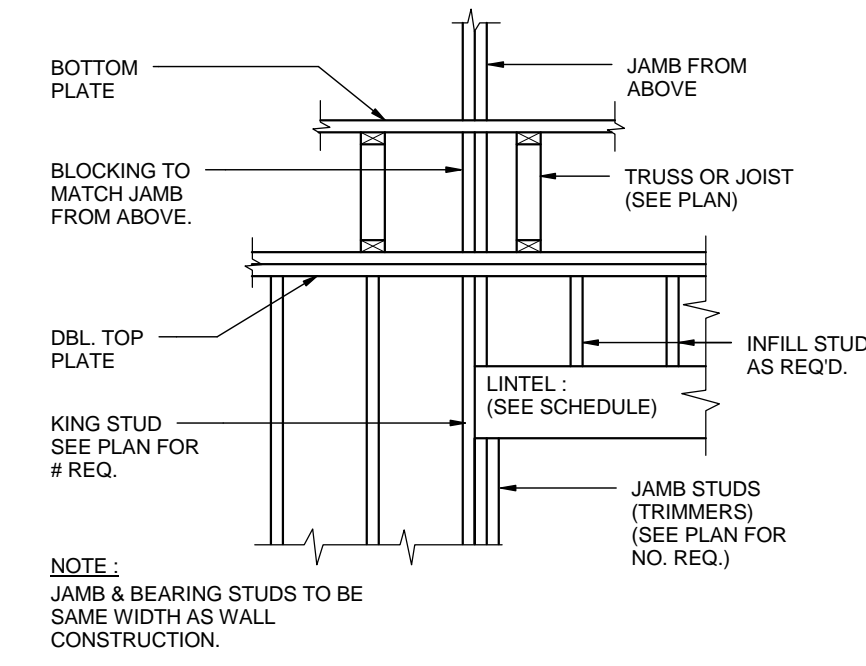




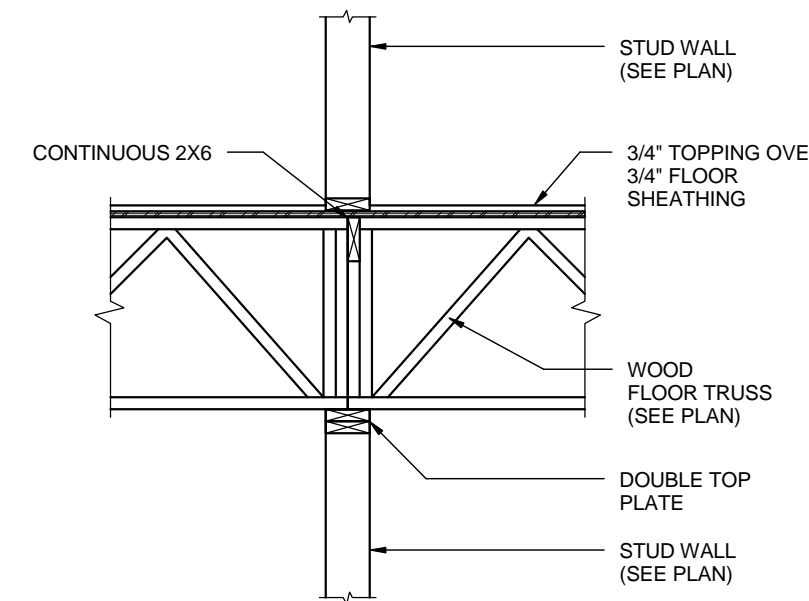
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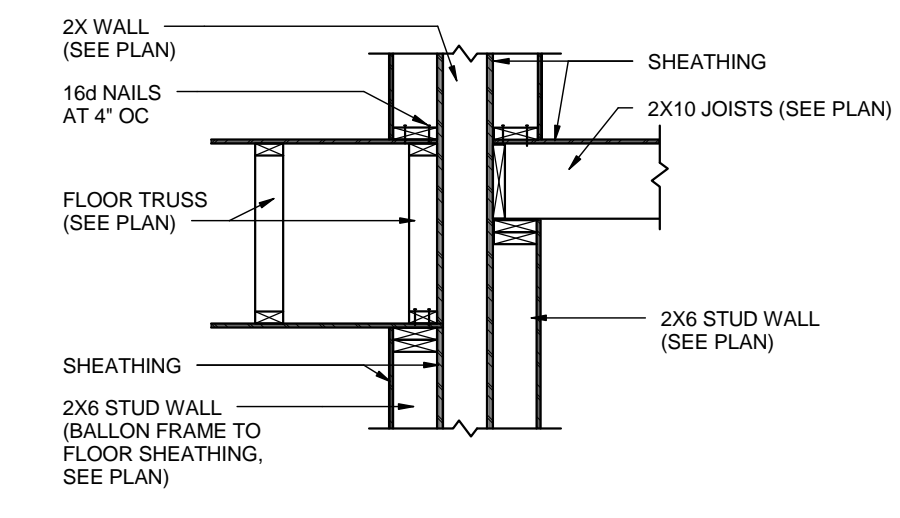
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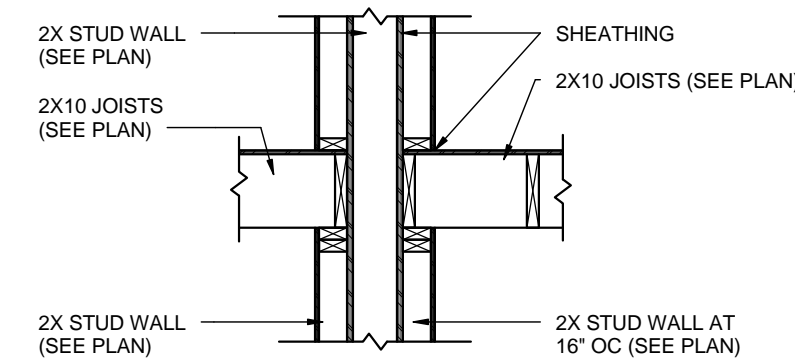
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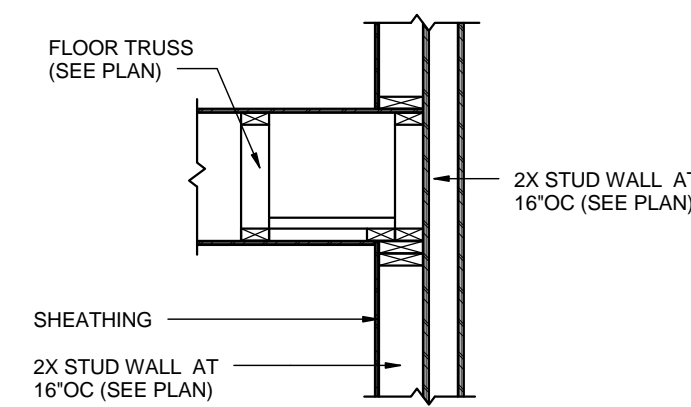
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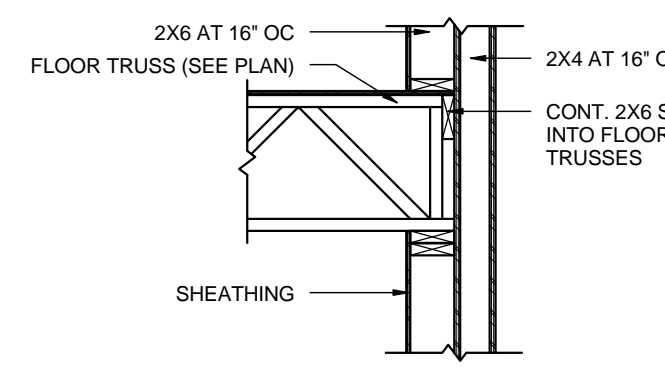
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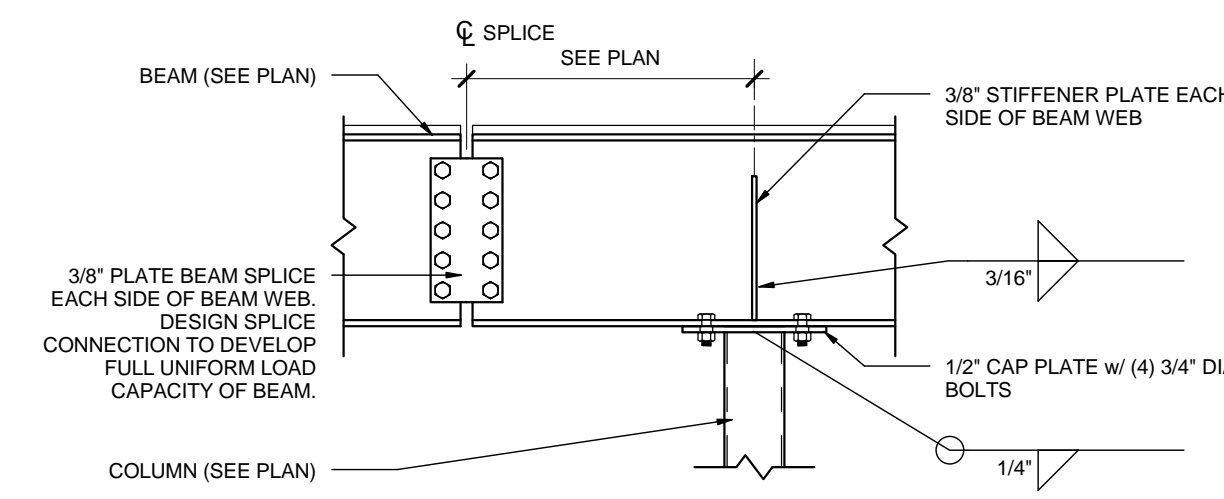
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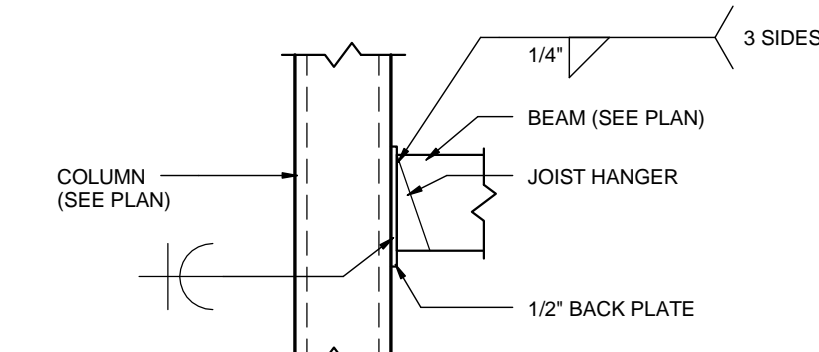
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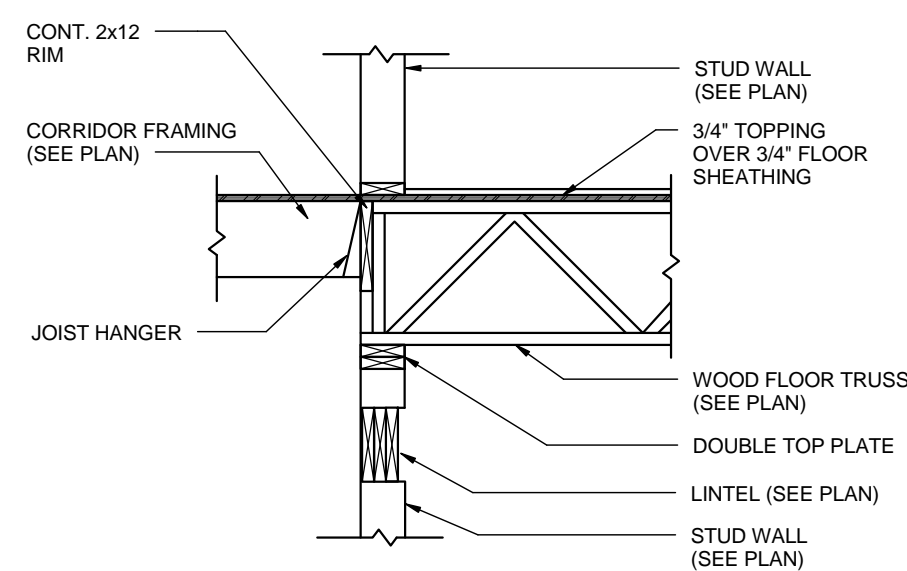
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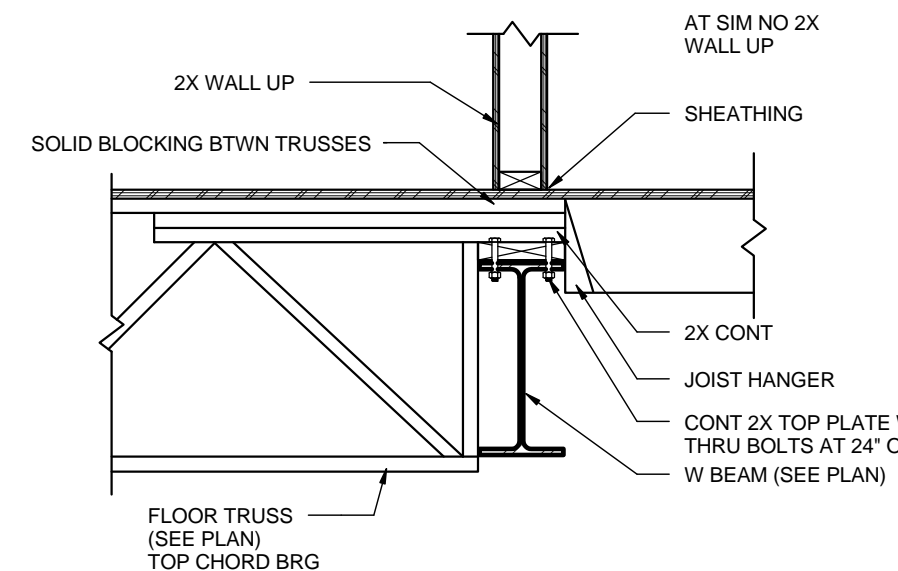
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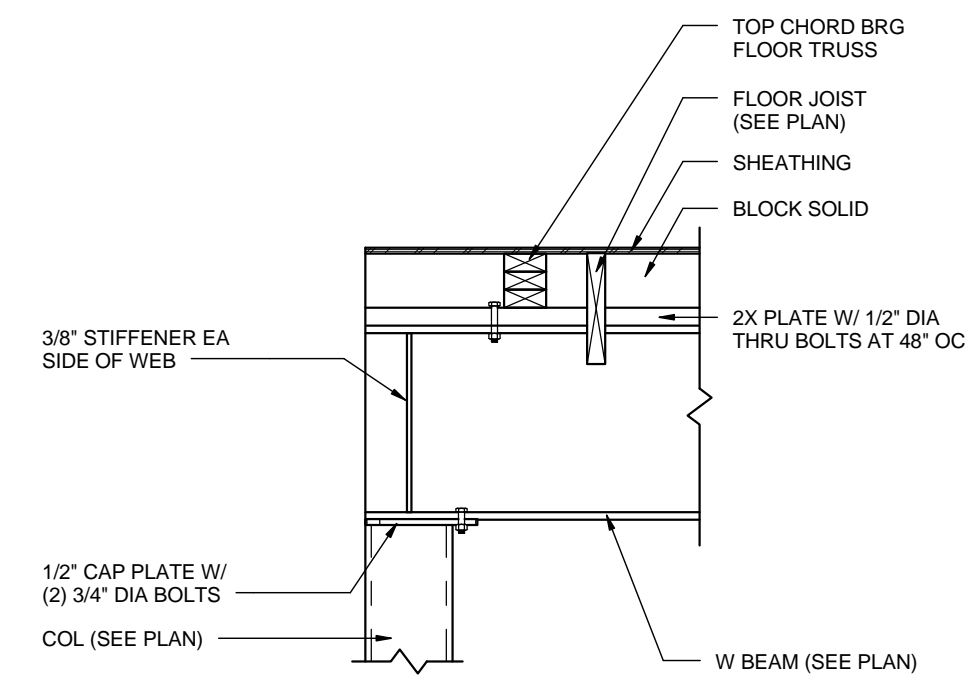
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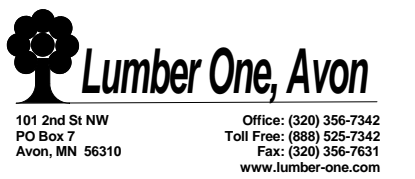
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12 SECTION  
S500 SCALE: 3/4" = 1'-0"



13 SECTION  
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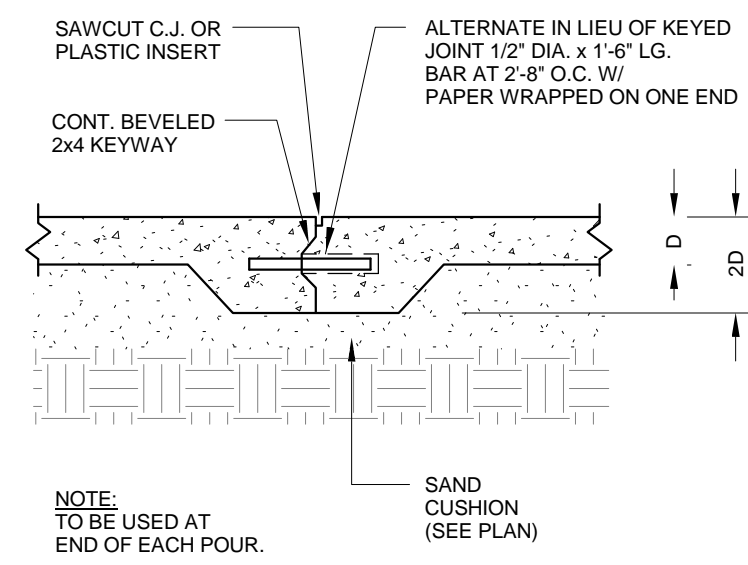
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 Luxury  
 Apartments

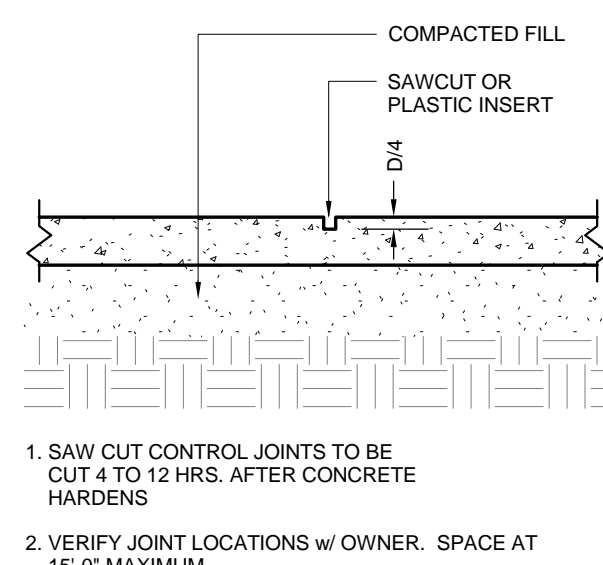
Red Wing, MN

Details

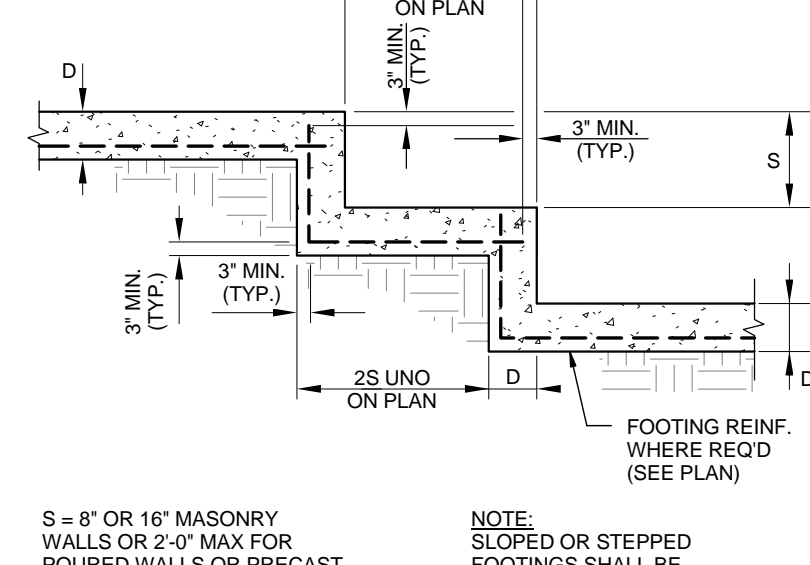
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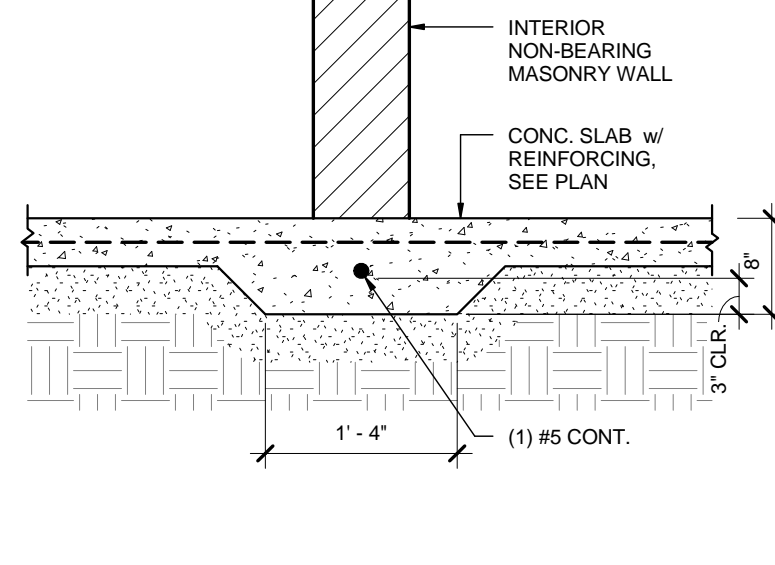
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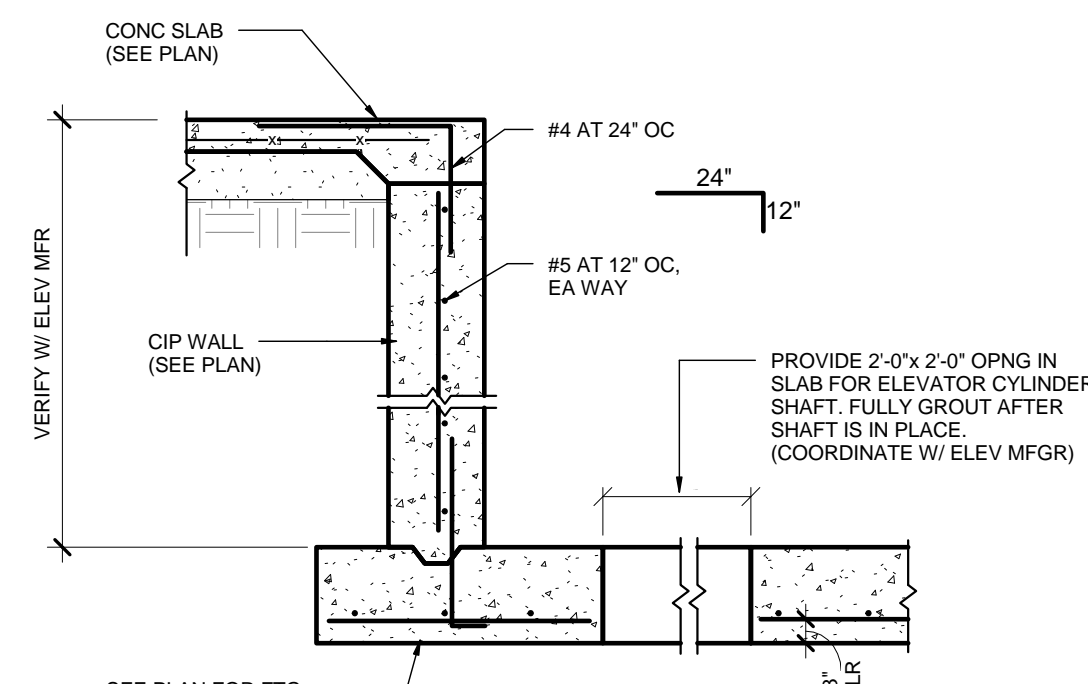
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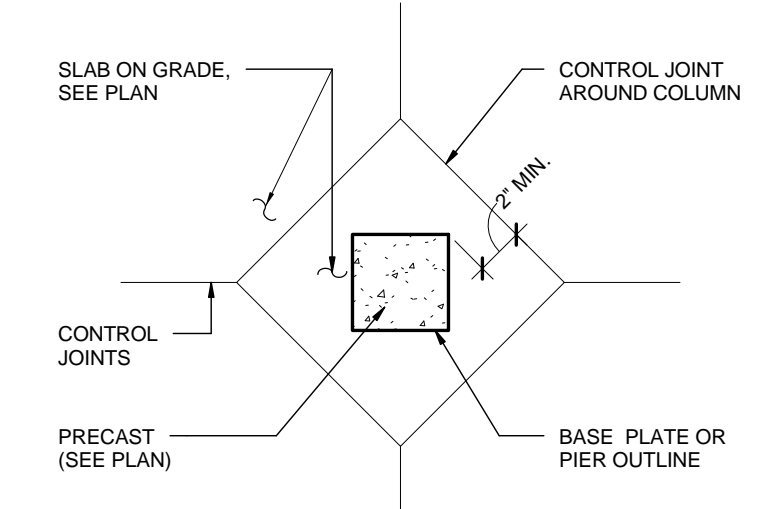
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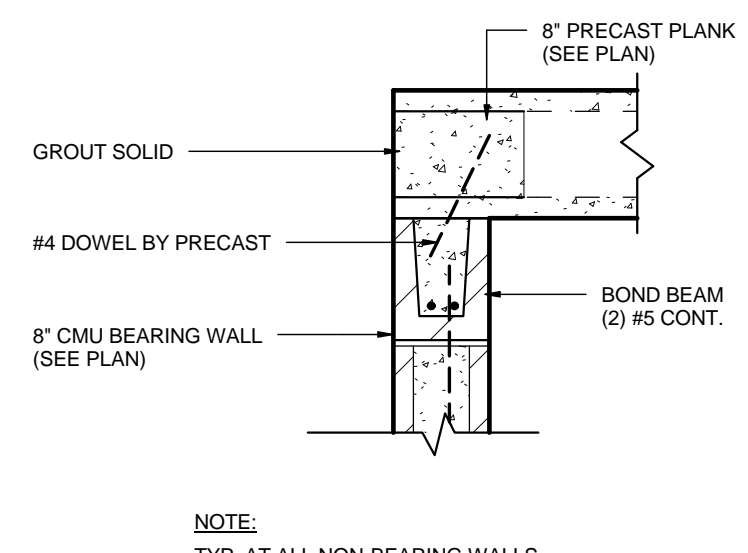
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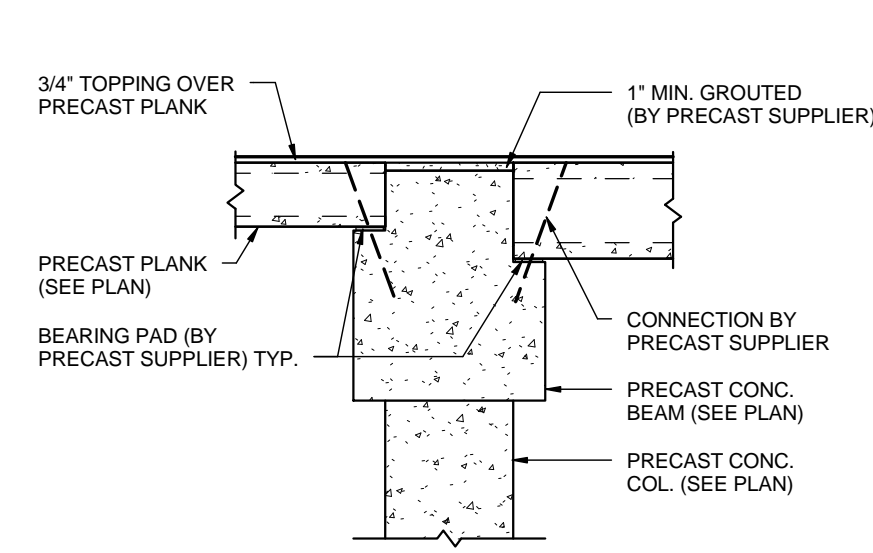
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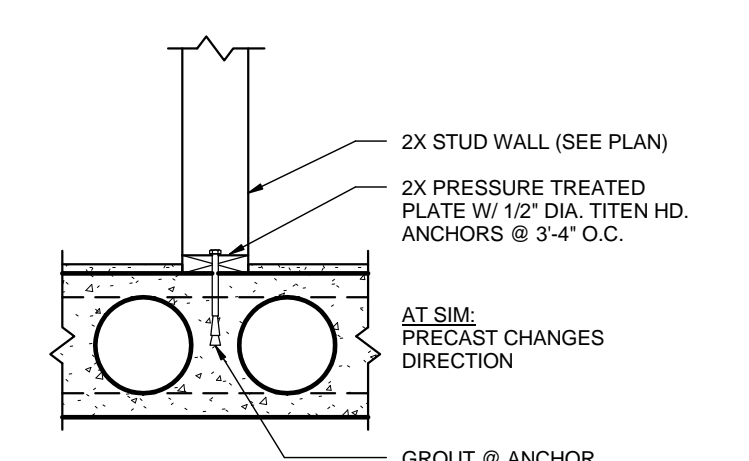
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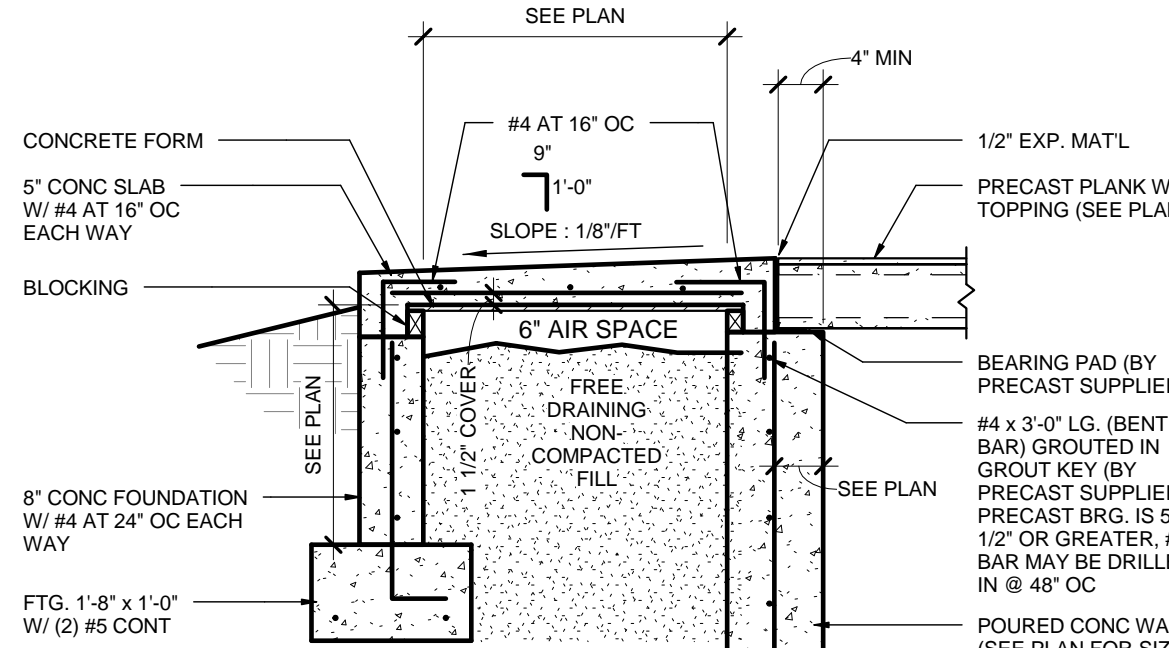
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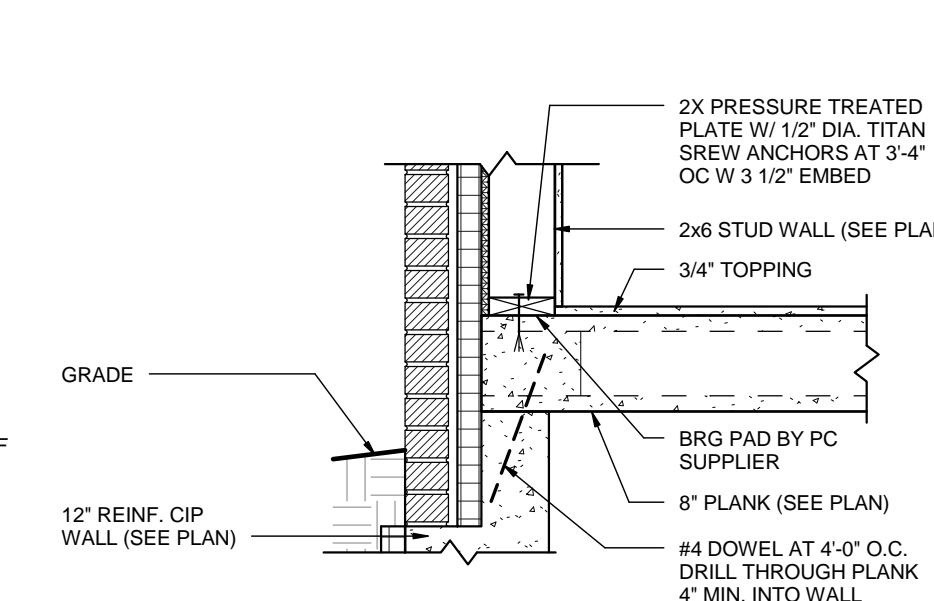
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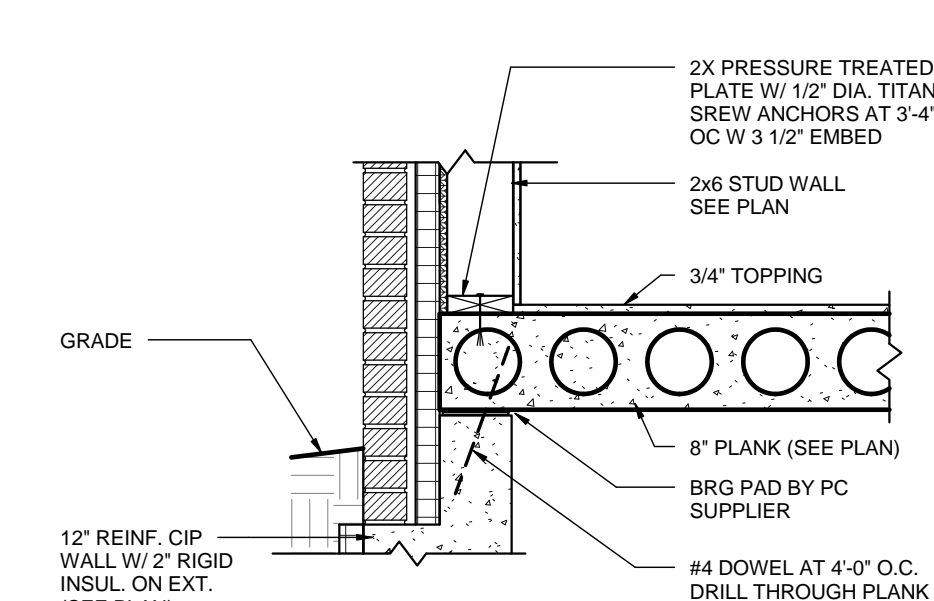
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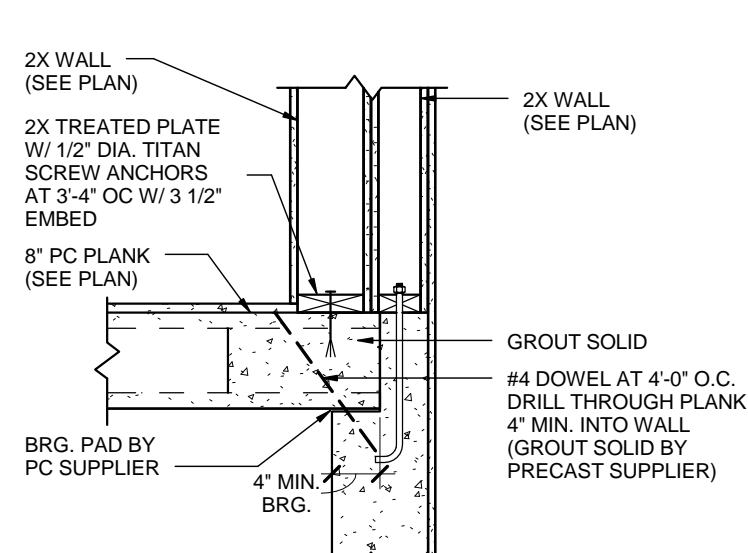
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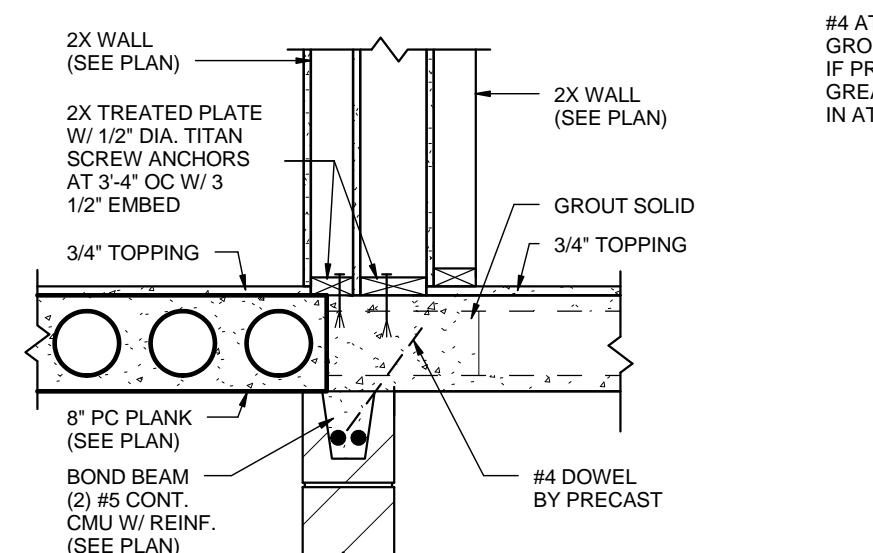
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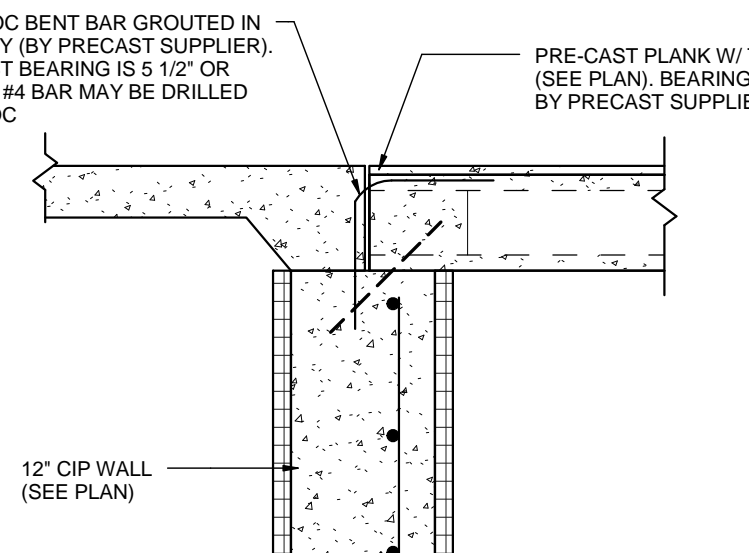
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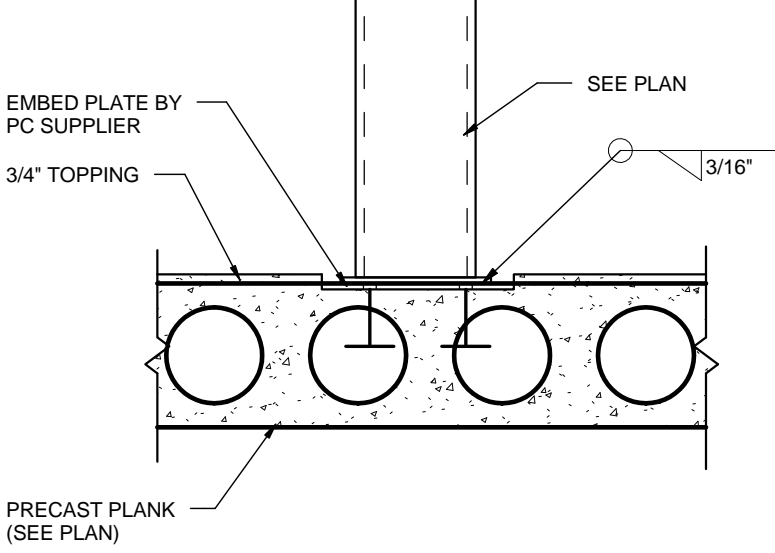
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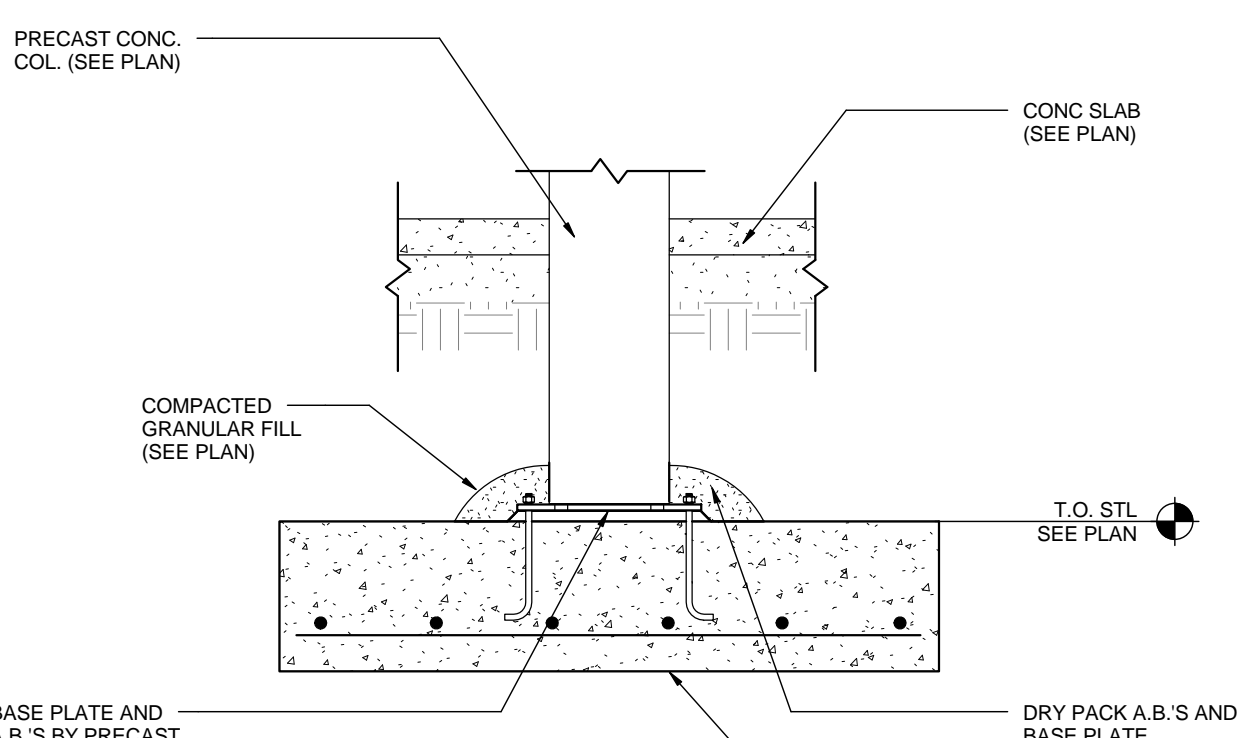
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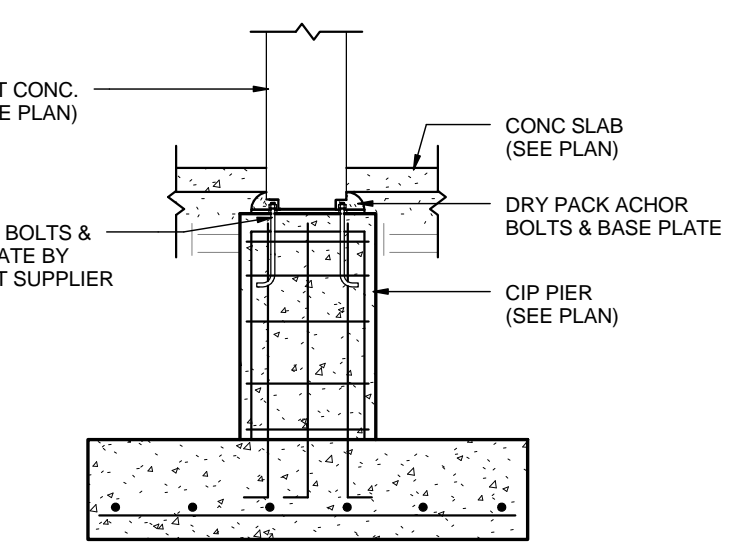
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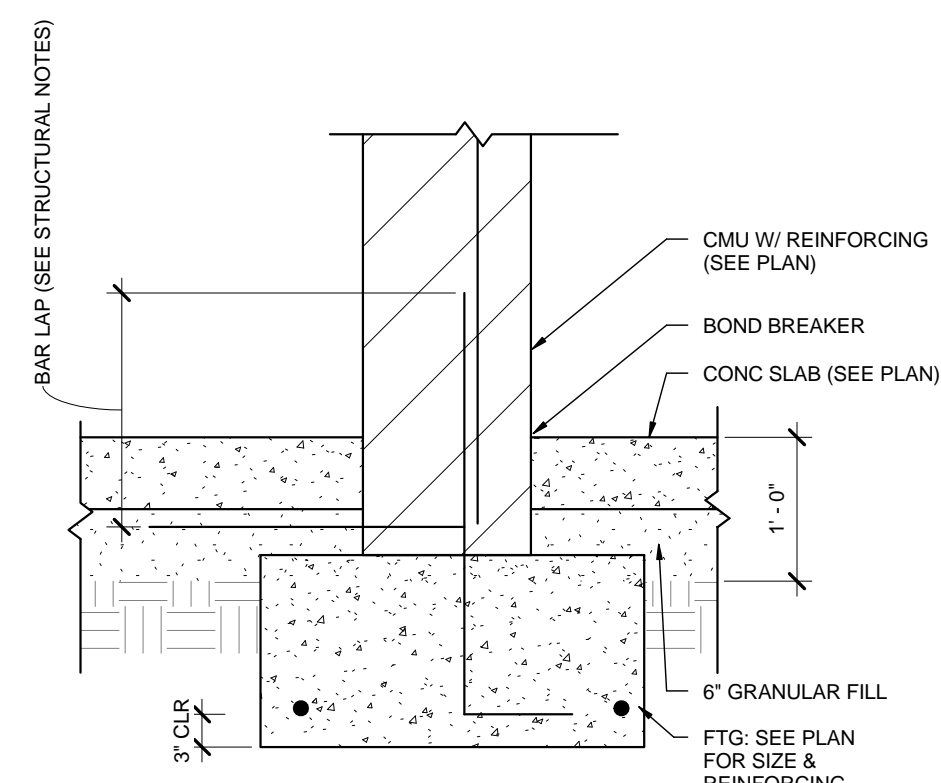
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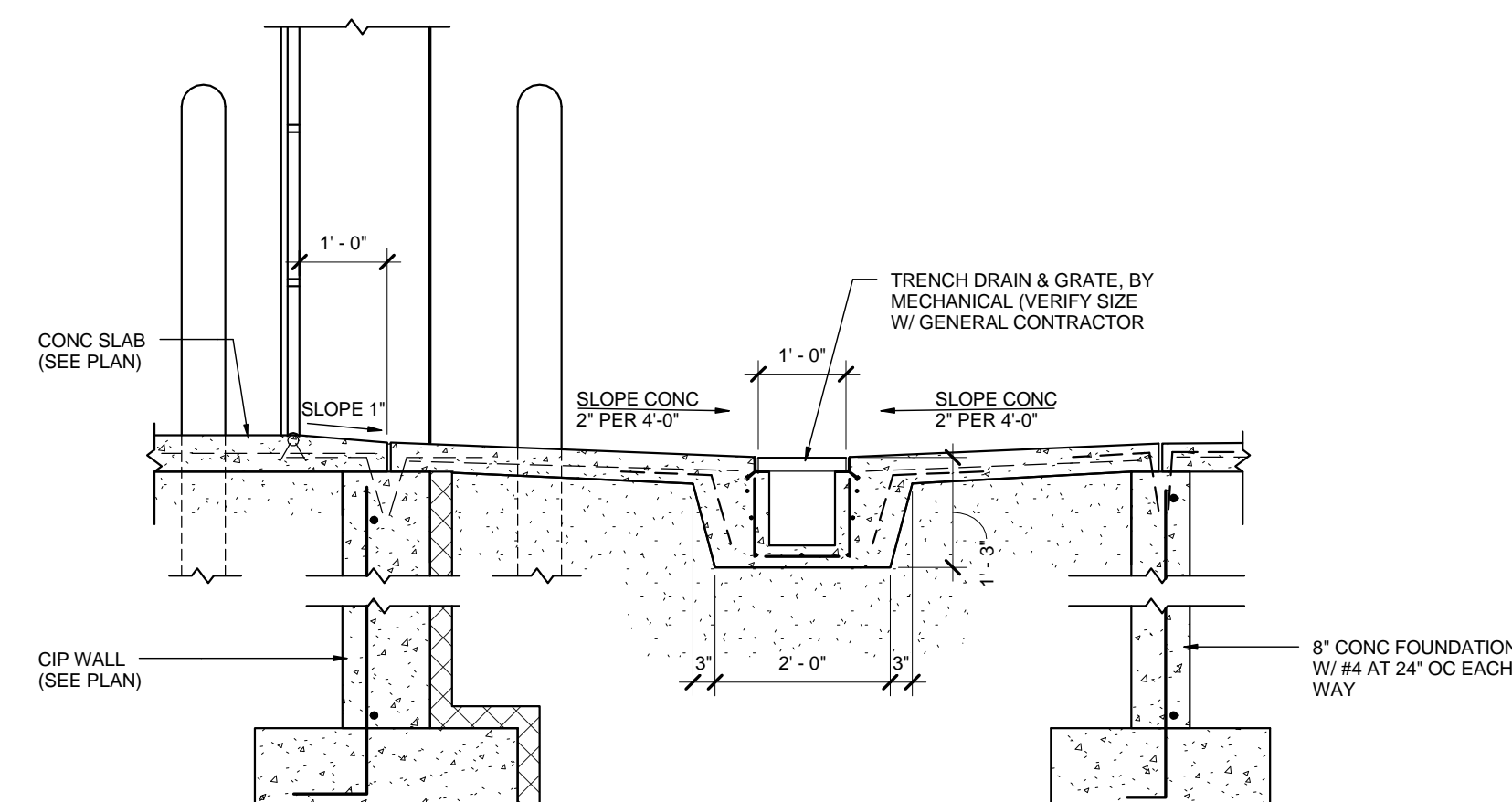
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S501 SCALE: 3/4" = 1'-0"



18 SECTION  
S501 SCALE: 1/2" = 1'-0"



19 SECTION  
S501 SCALE: 3/4" = 1'-0"



20 SECTION  
S501 SCALE: 1/2" = 1'-0"

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White Bear Lake, MN 55110-5126  
651-481-9120 Fax: 651-481-9201  
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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision & that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature: *Kesh Ramdular*  
Printed Name: Kesh Ramdular  
License No.: 16256  
Date: 09/30/2016

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Project No: 1602  
Project Manager: DAS  
Drawn By: SR  
Date: 09/30/2016

Date	Description

**hma ARCHITECTS**

700 W. St. Germain Street  
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hma@hma-archs.com

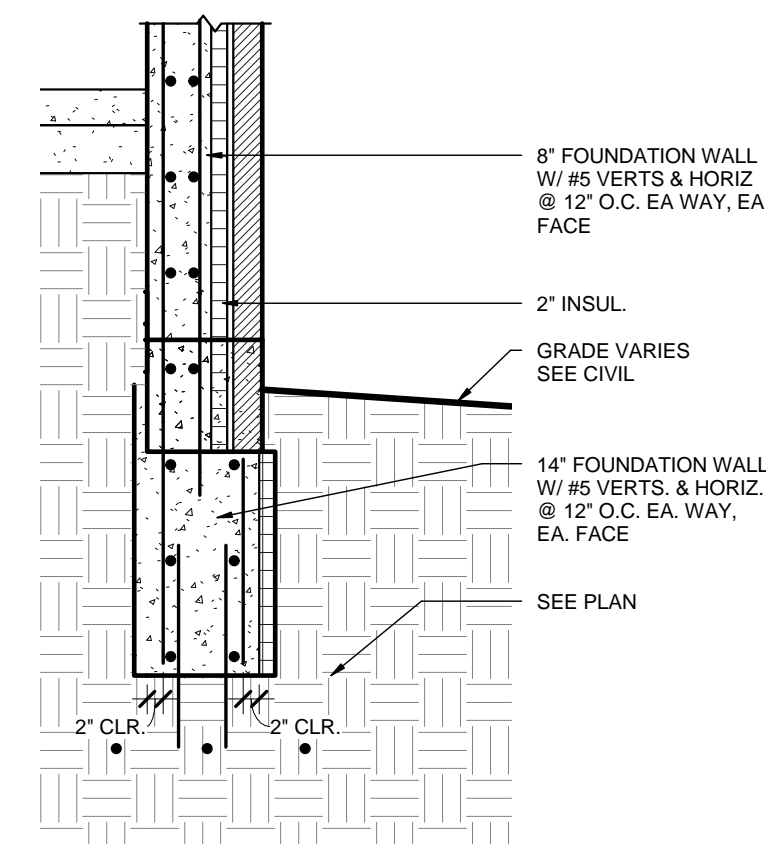
New Apartment Complex:

**Rivers Ridge  
Luxury  
Apartments**

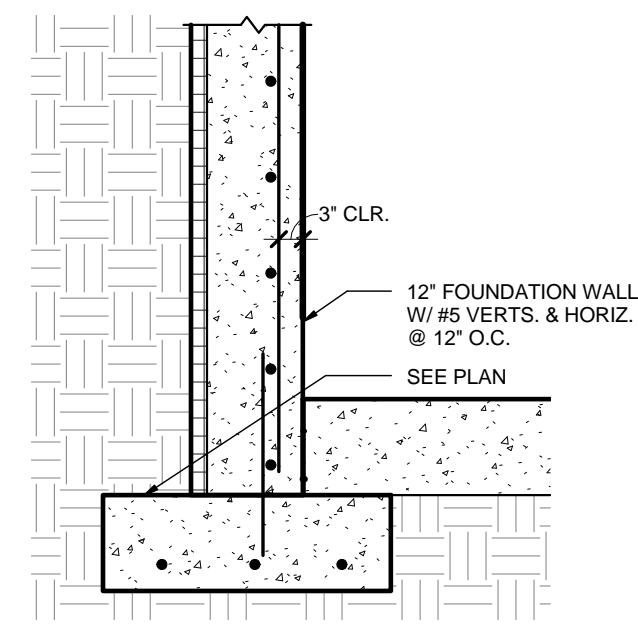
Red Wing, MN

Details

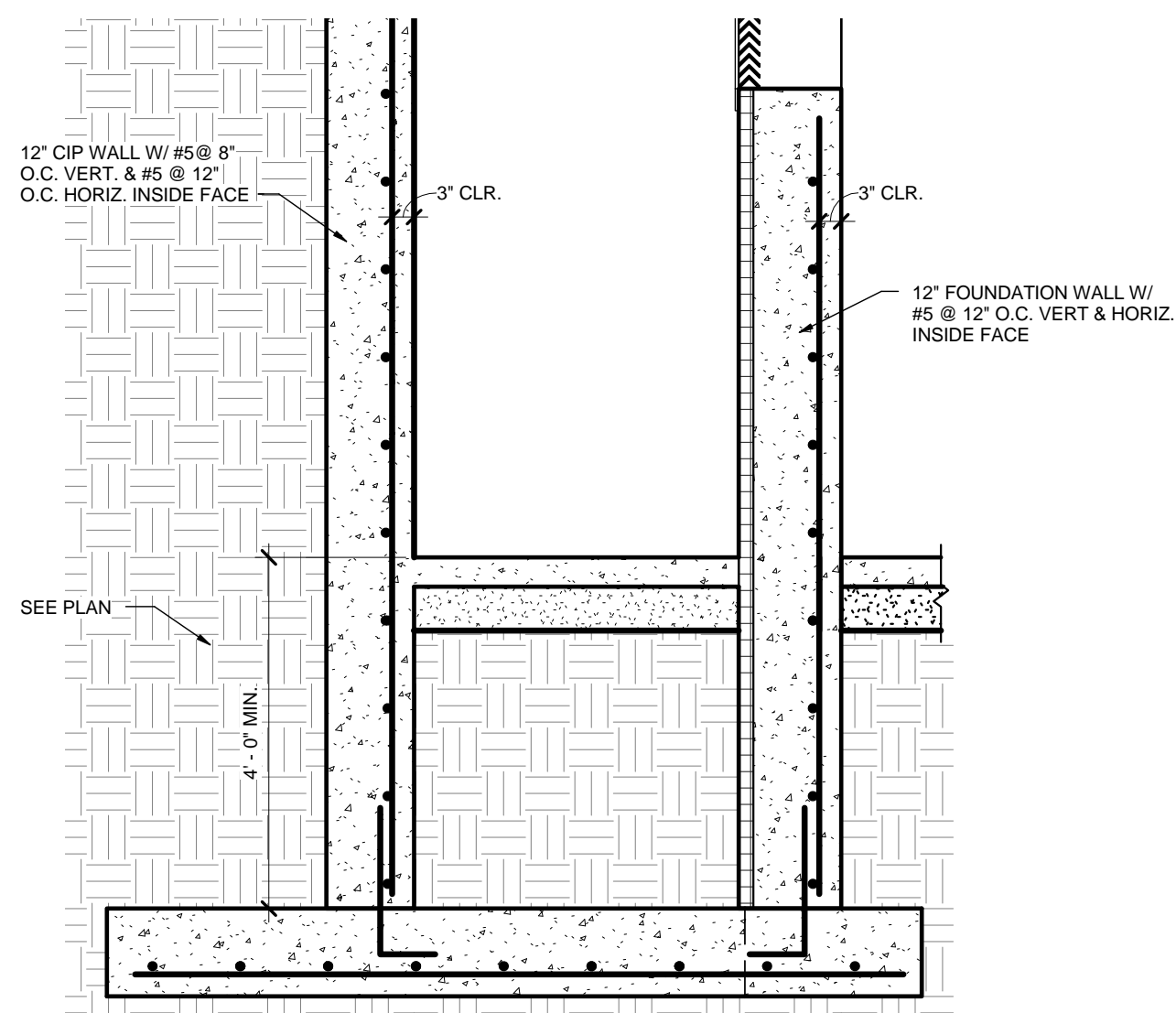
**S501**



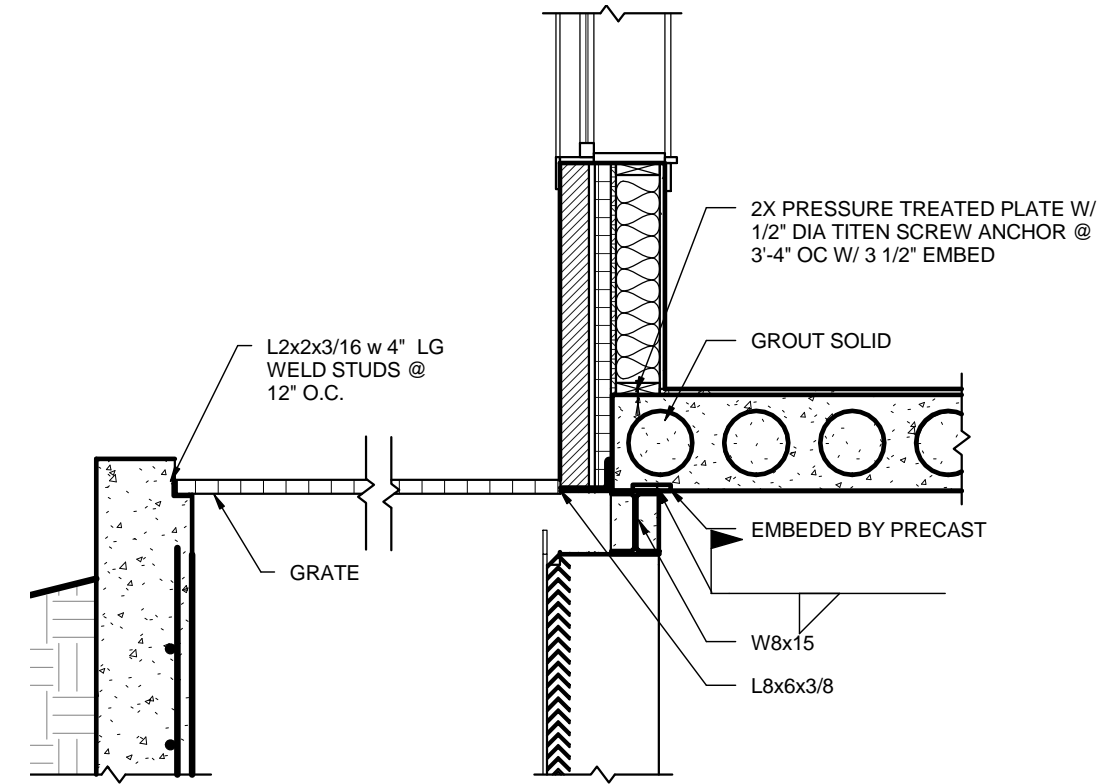
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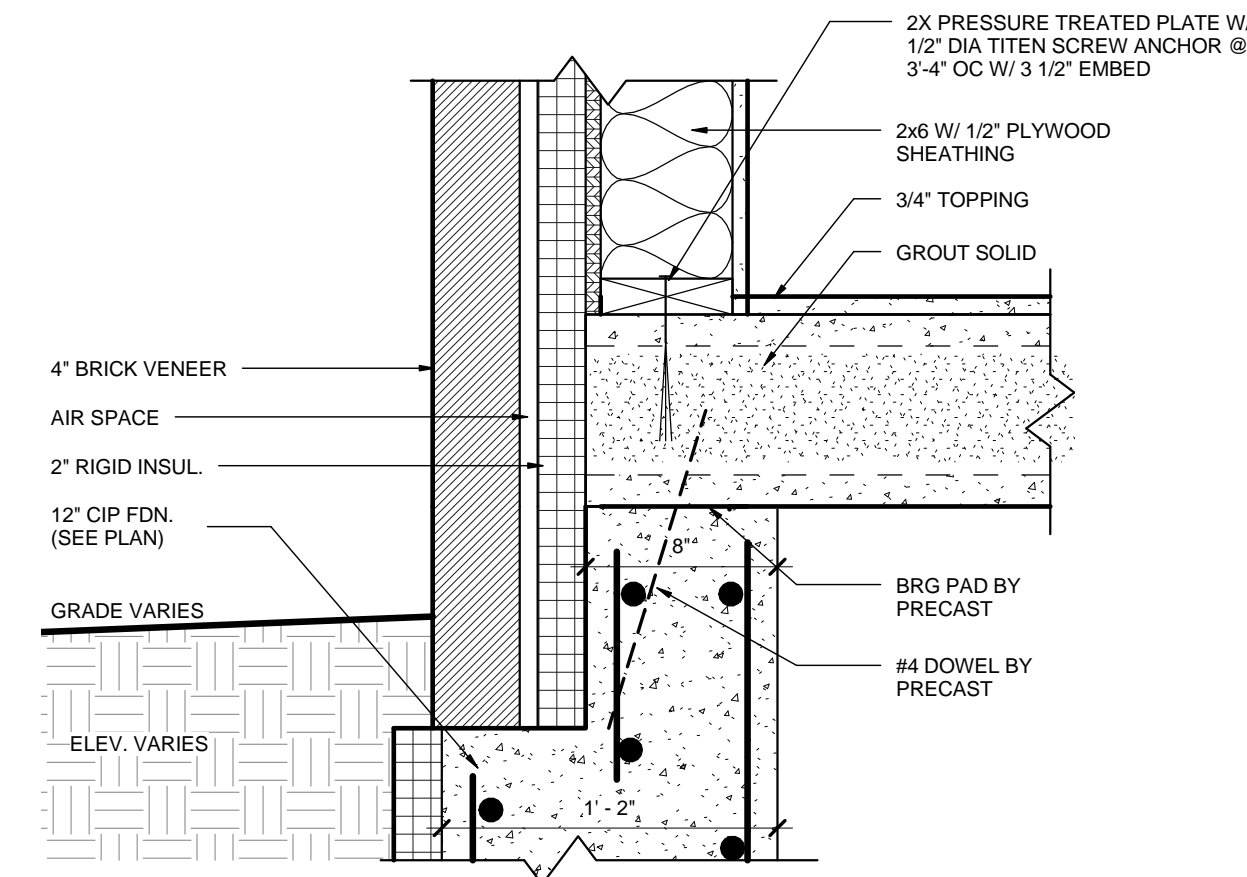
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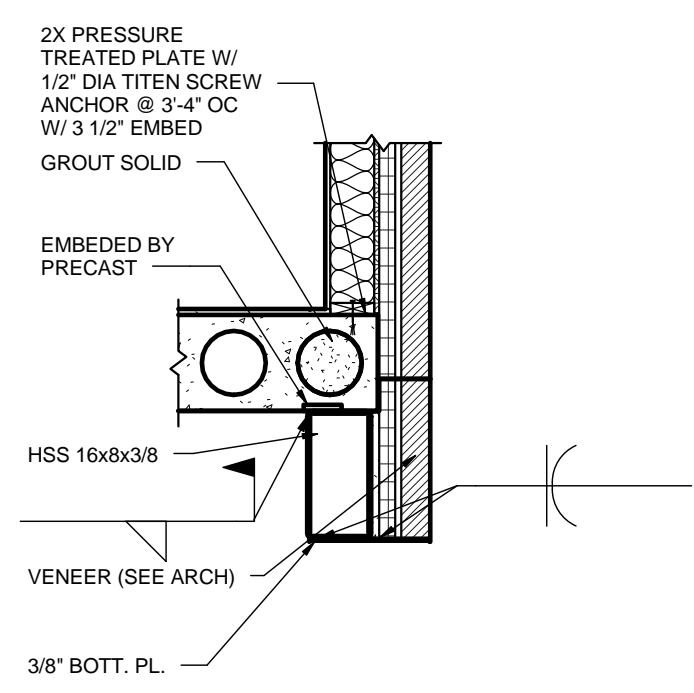
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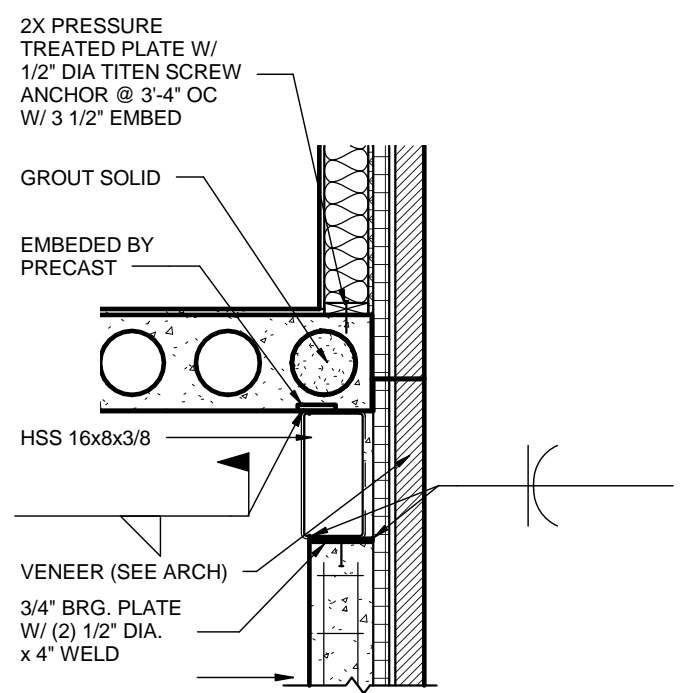
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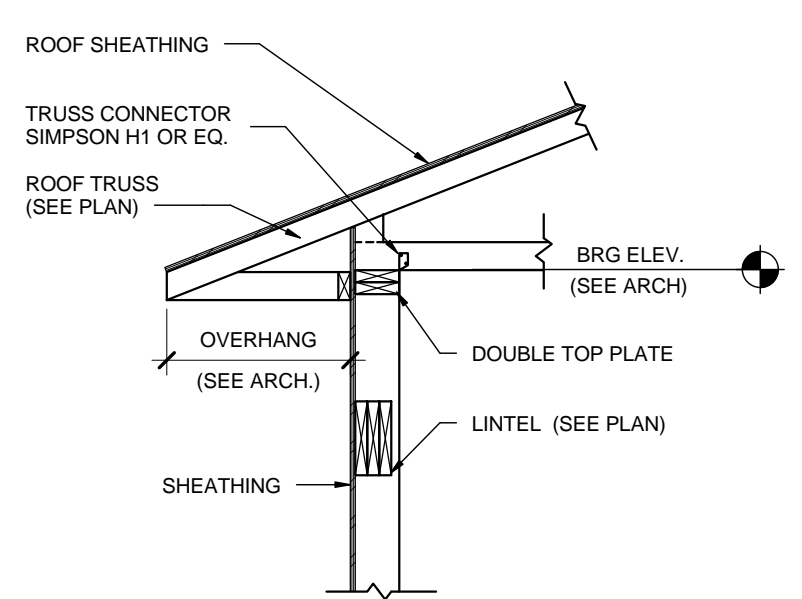
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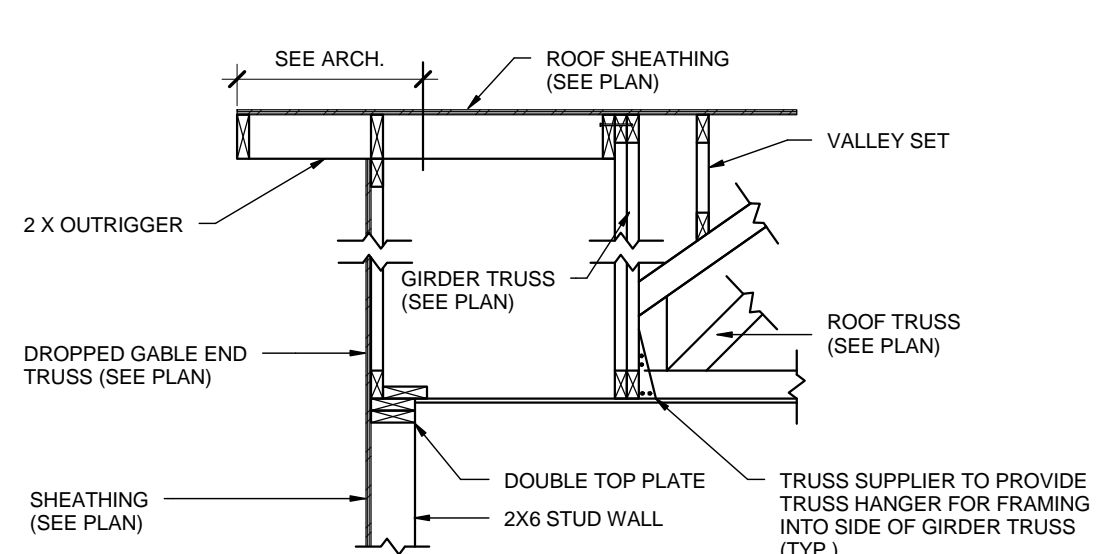
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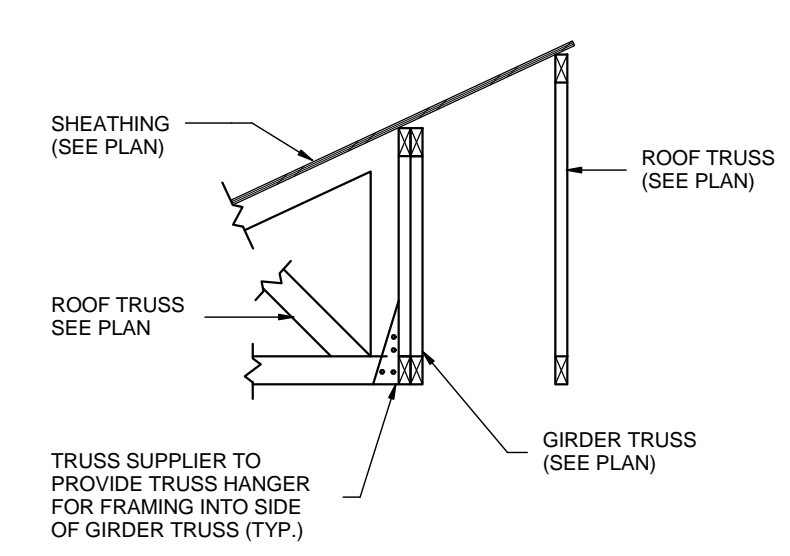
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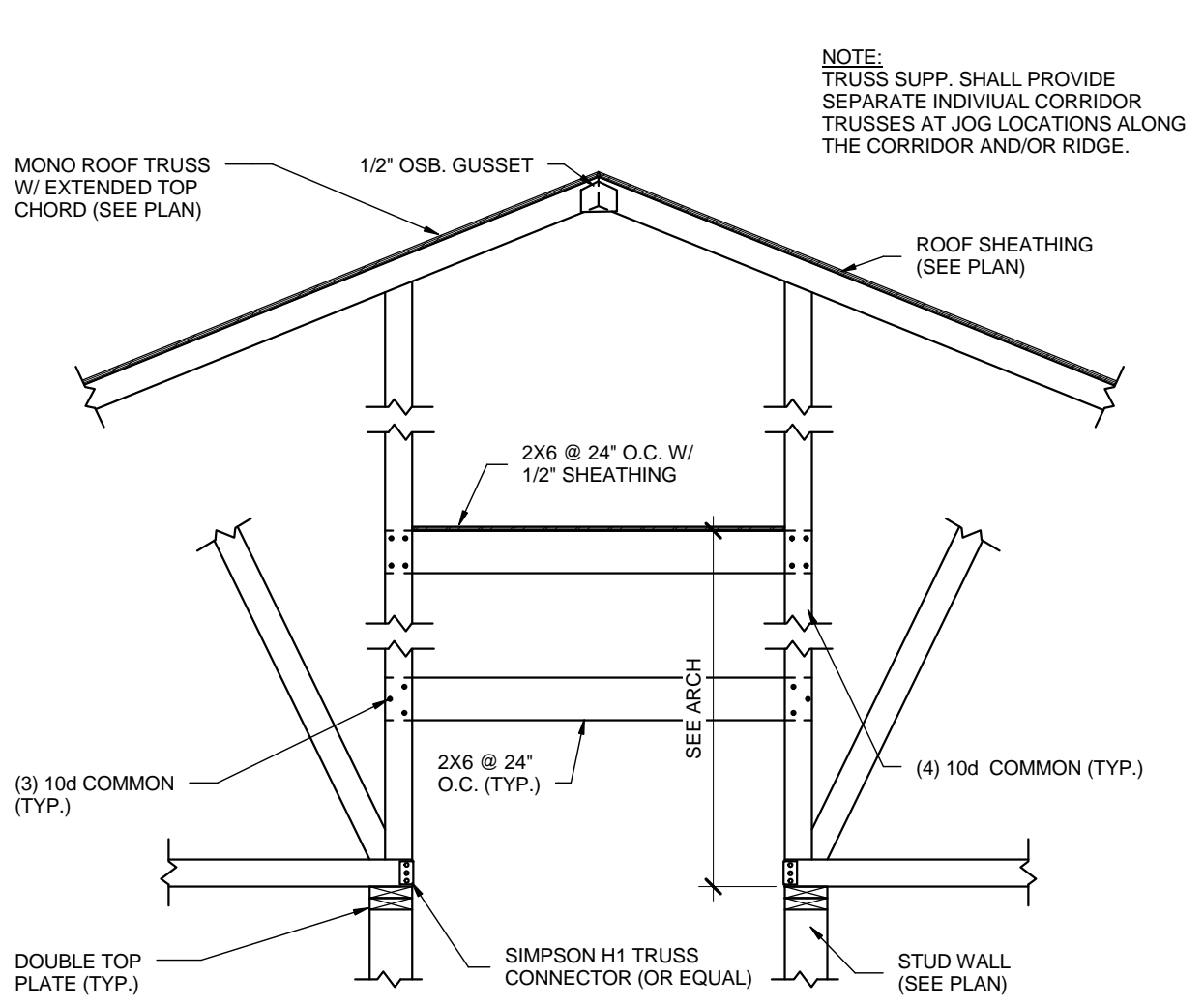
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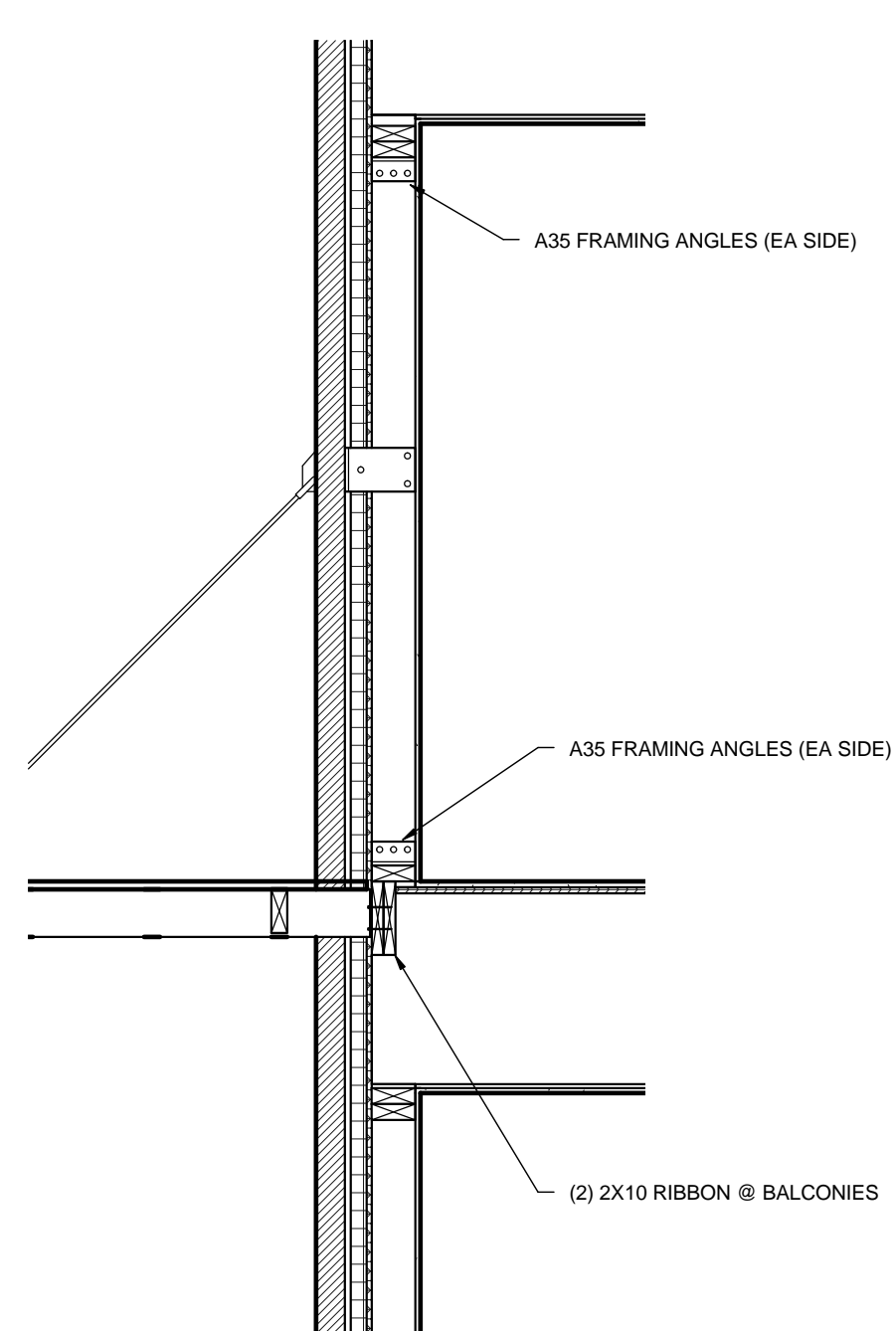
9 DETAIL  
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10 DETAIL  
S502 SCALE: 1/2" = 1'-0"



11 DETAIL  
S502 SCALE: 1/2" = 1'-0"



12 DETAIL  
S502 SCALE: 1/2" = 1'-0"



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S502