

HARMONY CENTER

OKLAHOMA CITY, OKLAHOMA COUNTY, OKLAHOMA

PROJECT INFORMATION

SITE DATA

SITE ZONING:	SEE CIVIL
SITE SIZE:	SEE CIVIL
SITE DENSITY:	SEE CIVIL
PARKING SPACES:	SEE CIVIL

BUILDING DATA

TOTAL RENTAL UNITS:	(3) TOTAL UNITS: (1) 2-BR UNIT, (1) 1-BR UNIT, (1) STUDIO UNIT					
DWELLING UNITS:	TYPE	COMPLIANCE WITH	GROSS SQ FT	NET SQ FT	QTY	SUBTOTAL
						GROSSNET
2-BR UNIT	FHA	1,183	1,100	1	1,183	1,100
	FHA	711	663	1	711	663
1-BR UNIT	FHA	591	549	1	591	549
	FHA			3		
				DWELLING AREA TOTAL SF:	2,485 SF	2,312 SF
				NON-DWELLING RESIDENTIAL AREA SF:	3,975 SF	
				BLDG'S TOTAL SF:	6,460 SF	

CODES/REGULATIONS

BLDG. & RELATED CODES:	2015 IBC, 2009 IECC, 2015 IMC, 2015 IPC, 2017 NEC
FIRE CODE(S):	2015 IFC
ACCESSIBILITY CODE(S):	NONE REQUIRED @ R-2, ADA 2010 @ B
OHFA:	OHFA STATE POLICIES & GUIDELINES
MISC:	ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, LAWS & ORDINANCES

BUILDING CODE DATA

USE GROUP:	B @ 1ST FLOOR, R-2 2ND FLOOR. SEPARATED MIXED USE
CONSTRUCTION TYPE:	5B
EXTERIOR WALL CONSTRUCTION:	UNRATED
OTHER WALL CONSTRUCTION:	1-HR RATED UNIT SEPARATION WALLS, STAIR SHAFT, CORRIDOR WALLS, ROOF/CEILING, FLOOR/CEILING, UNRATED INTERIOR WALLS
TOTAL ALLOW. AREA PER FLOOR:	28,000 SF
TOTAL ACTUAL AREA:	1ST FLOOR = 3,013 SF 2ND FLOOR = 3,013 SF
ALLOWABLE HEIGHT & FLOORS:	60'-0", 3 STORIES
ACTUAL HEIGHT & FLOORS:	24'-9 1/4"
HEIGHT/ AREA ADJUSTMENTS:	NONE TAKEN, NONE REQUIRED

OCCUPANT LOAD

FHA 1-BR 611 SF UNIT = 611 SF/200 = 3.05; (4) PERSONS	
FHA 1-BR 711 SF UNIT = 711 SF/200 = 3.55; (4) PERSONS	
STUDIO 591 SF UNIT = 591 SF/200 = 2.95; (3) PERSONS	
STUDIO 624 SF UNIT = 624 SF/200 = 3.12; (4) PERSONS	
SPRINKLER SYSTEM:	NFPA 13 SYSTEM DESIGNED AND INSTALLED BY ACCREDITED FIRE PROTECTION SYSTEM DESIGNER AND INSTALLER. PROTECTION SHALL INCLUDE ALL AREAS AS APPLICABLE BY LOCAL AND STATE CODES. DRY/WET SYSTEMS AS REQUIRED - COORDINATE WITH GC/OWNER REGARDING THE INSTALLATION OF WET/DRY FIRE SUPPRESSION SYSTEM FOR UNCONDITIONED FREEZE PROTECTION PER O.O CODE DATA OR PROVIDE FREEZE PROTECTED SOFFITS ON THE TOP FLOOR PER O.O CODE DATA INFORMATION. THIS COORDINATION SHOULD BE INCLUDED IN THE BASE BID.

INDEX TO DRAWINGS

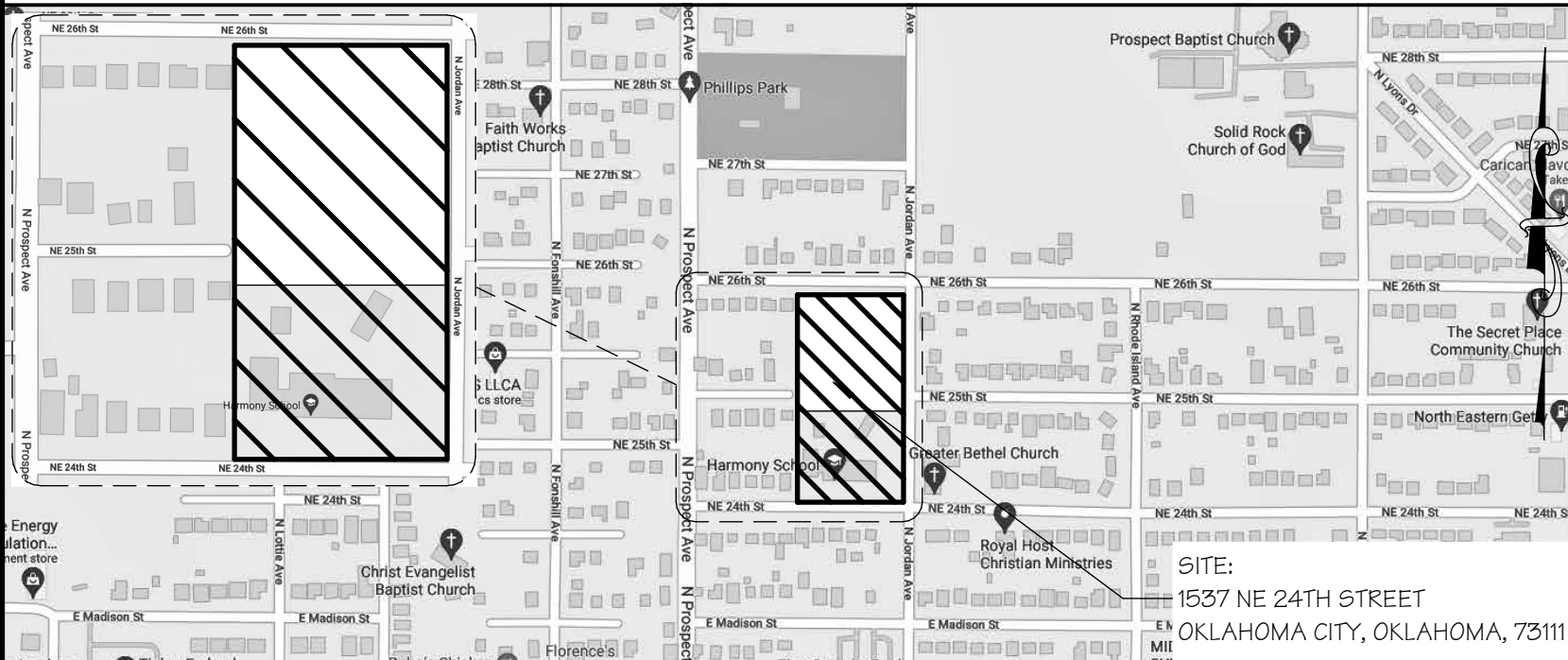
Sheet Number	Sheet Name	Sheet Issue Date	Current Revision Date	Current Revision Description
1 - COVER SHEET				
0.OCB	COVER SHEET	08 OCT 2021	25 JAN 2022	ADDENDUM #1
2 - CIVIL SHEETS BY OTHERS (TO BE SUBMITTED UNDER SEPERATE COVER)				
C1.O	CIVIL SHEETS BY OTHERS	08 OCT 2021	08 OCT 2021	ISSUE SET
3 - STRUCTURAL SHEETS (BY CROCKETT ENGINEERING CONSULTANTS)				
S100-CB	GENERAL STRUCTURAL DATA	08 OCT 2021	08 OCT 2021	ISSUE SET
S200-CB	FOUNDATION PLAN	08 OCT 2021	08 OCT 2021	ISSUE SET
S210-CB	FOUNDATION DETAILS	08 OCT 2021	08 OCT 2021	ISSUE SET
S300-CB	2ND FLOOR FRAMING PLAN	08 OCT 2021	08 OCT 2021	ISSUE SET
S310-CB	2ND FLOOR FRAMING DETAILS	08 OCT 2021	08 OCT 2021	ISSUE SET
S400-CB	ROOF FRAMING PLAN	08 OCT 2021	08 OCT 2021	ISSUE SET
S410-CB	ROOF FRAMING DETAILS	08 OCT 2021	08 OCT 2021	ISSUE SET
4 - ARCHITECTURAL				
A1.OCB	COMMUNITY BUILDING PLAN - 1ST FLOOR	08 OCT 2021	25 JAN 2022	ADDENDUM #1
A1.1CB	COMMUNITY BUILDING PLAN - 2ND FLOOR	08 OCT 2021	25 JAN 2022	ADDENDUM #1
A1.2CB	CLEAR FLOOR SPACE PLAN - 1ST FLOOR	08 OCT 2021	25 JAN 2022	ADDENDUM #1
A3.OCB	EXTERIOR ELEVATIONS	08 OCT 2021	25 JAN 2022	ADDENDUM #1
A4.OCB	WALL SECTIONS	08 OCT 2021	08 OCT 2021	ISSUE SET
A4.1CB	WALL SECTIONS	08 OCT 2021	08 OCT 2021	ISSUE SET
A4.2CB	STAIR SECTIONS AND DETAILS	25 JAN 2022	25 JAN 2022	ADDENDUM #1
A5.OCB	FIRE RATED ASSEMBLIES	08 OCT 2021	08 OCT 2021	ISSUE SET
A5.1CB	FIRE RATED ASSEMBLIES	08 OCT 2021	08 OCT 2021	ISSUE SET
A5.2CB	FIRE RATED ASSEMBLIES	08 OCT 2021	08 OCT 2021	ISSUE SET
A5.3CB	FIRE RATED ASSEMBLIES	08 OCT 2021	08 OCT 2021	ISSUE SET
A5.4CB	FIRE RATED ASSEMBLIES	08 OCT 2021	08 OCT 2021	ISSUE SET
A6.OCB	COMMUNITY BUILDING FINISH PLAN - 1ST FLOOR	08 OCT 2021	25 JAN 2022	ADDENDUM #1
A6.1CB	COMMUNITY BUILDING FINISH PLAN - 2ND FLOOR	08 OCT 2021	25 JAN 2022	ADDENDUM #1
A7.OCB	INTERIOR ELEVATIONS NOTES AND DETAILS	08 OCT 2021	08 OCT 2021	ISSUE SET
A7.1CB	INTERIOR ELEVATIONS	08 OCT 2021	08 OCT 2021	ISSUE SET
A7.2CB	INTERIOR ELEVATIONS	08 OCT 2021	08 OCT 2021	ISSUE SET
5 - MEP (BY J-SQUARED ENGINEERING)				
MEP1	MECHANICAL ELECTRICAL PLUMBING COVER SHEET	08 OCT 2021	08 OCT 2021	ISSUE SET
MEP2	ROOF PLAN	08 OCT 2021	08 OCT 2021	ISSUE SET
M101	HVAC PLANS	08 OCT 2021	25 JAN 2022	ADDENDUM #1
M501	HVAC DETAILS & SCHEDULES	08 OCT 2021	08 OCT 2021	ISSUE SET
EPI01	POWER PLANS	08 OCT 2021	25 JAN 2022	ADDENDUM #1
ELI01	LIGHTING PLANS	08 OCT 2021	25 JAN 2022	ADDENDUM #1
E501	ELECTRICAL DETAILS & SCHEDULES	08 OCT 2021	08 OCT 2021	ISSUE SET
E601	ELECTRICAL SCHEDULES	08 OCT 2021	08 OCT 2021	ISSUE SET
PSI01	SANITARY SEWER PLANS	08 OCT 2021	08 OCT 2021	ISSUE SET
PWI01	WATER & GAS PLANS	08 OCT 2021	08 OCT 2021	ISSUE SET
PSI01	PLUMBING DETAILS & SCHEDULES	08 OCT 2021	08 OCT 2021	ISSUE SET

INDEX TO DRAWINGS HAS BEEN UPDATED TO REFLECT SHEETS REVISED BY ADDENDUM #1

ARCHITECT'S JOB NO. 3849

OHFA# 20-06-45

PROJECT LOCATION MAP



SIGNATURE AREAS

NOTE: PROJECT CONSTRUCTION MUST BE IN COMPLIANCE WITH ALL APPLICABLE CODES, ORDINANCES, LAWS, AND REGULATIONS AS ENUMERATED ELSEWHERE IN THE PLANS AND SPECIFICATIONS.

ARCHITECT: WALLACE ARCHITECTS, L.L.C.
302 CAMPUSVIEW DRIVE SUITE 208, COLUMBIA, MO 65201

BY: _____ DATE: _____

OWNER: HARMONY AFFORDABLE HOUSING PARTNERS, LP
1901 N KICKAPOO AVE, SHAWNEE, OK 74804

BY: _____ DATE: _____

CONTRACTOR: MIKE D. LITTLE CONSTRUCTION CO., INC.
1901 N KICKAPOO AVE, SHAWNEE, OK 74804

BY: _____ DATE: _____

OKLAHOMA HOUSING FINANCE AGENCY
205 NW 63RD ST #140, OKLAHOMA CITY, OK 73116

BY: _____ DATE: _____

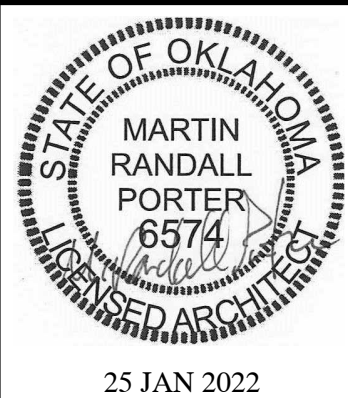
PM: RP

PC: CG

PLAN SET
NO. _____

JURISDICTION APPROVAL STAMPS

ADDENDUM #1



HARMONY CENTER
OKLAHOMA CITY, OKLAHOMA COUNTY,
OKLAHOMA



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1ST ISSUE
08 OCT 2021

ISSUE/REVISIONS
08 OCT 2021 ISSUE SET
25 JAN 2022 ADDENDUM #1

SHEET NO.
0.OCB

JOB NO.
3849

Harmony Center

Oklahoma City, Oklahoma County, Oklahoma

GENERAL NOTES

ELEVATION DATA

SEE ARCHITECTURAL DRAWINGS OR SITE PLAN FOR FINISH FLOOR ELEVATIONS

DESIGN SPECIFICATIONS

2015 INTERNATIONAL BUILDING CODE

EARTHWORK

EARTHWORK OPERATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A PROFESSIONAL TESTING AGENCY TO ASSURE COMPLIANCE WITH THE RECOMMENDATIONS OF THE SOILS REPORT BY STANDARD TESTING & ENGINEERING COMPANY DATED JUNE 4, 2021.

CONCRETE

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE CURRENT ACI 301. SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 305 SPECIFICATIONS FOR HOT WATER CONCRETE, AND ACI 306 SPECIFICATIONS FOR COLD WEATHER CONCRETE, WITH THE FOLLOWING ADDITIONAL REQUIREMENTS:

1. CONCRETE SHALL DEVELOP THE FOLLOWING 28-DAY MINIMUM COMPRESSIVE STRENGTH:

CAST-IN-PLACE WALLS - 3,500 PSI

FLOOR SLAB - 4,000 PSI

EXTERIOR SLABS, WALLS AND CURBS - 4,000 PSI

2. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL.

3. CHLORIDE- BASED ADMIXTURES ARE PROHIBITED IN ALL REINFORCED CONCRETE.

4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, A616, OR A617, GRADE 60.

5. ALL CONTINUOUS REINFORCING STEEL THAT MEETS AT A CORNER SHALL BE TIED TOGETHER WITH A CORNER BAR THAT HAS SUFFICIENT LAP DISTANCE IN EACH DIRECTION

6. ALL REINFORCING BARS LAP LENGTH SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE

7. CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" +/- 1" (ASTM C- 143) AS DELIVERED IN THE FIELD.

CONTRACTOR MAY USE CHEMICAL ADMIXTURES TO ATTAIN A MAXIMUM SLUMP OF 8" FOR WORKABILITY.

NO WATER MAY BE ADDED TO THE CONCRETE MIX ON SITE UNLESS WATER IS WITHHELD AT THE BATCHING FACILITY. IF WATER IS WITHHELD AT THE BATCHING FACILITY IT SHOULD BE REFLECTED ON THE LOAD TICKET. THE TOTAL AMOUNT OF WATER IN THE MIX SHALL NOT EXCEED WHAT IS NOTED ON THE APPROVED MIXED. THIS SHALL BE NOTED IN THE SPECIAL INSPECTOR'S RECORDS.

8. CONCRETE EXPOSED TO WEATHER, VEHICLES, AND/OR BECING CHEMICALS SHALL BE AIR-ENRAINED WITH 6% (+/-) 1.5% ENTRAINED AIR BY VOLUME AT POINT OF DISCHARGE. DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3%.

9. SUBMIT CONCRETE MIX PROPORTIONS PRIOR TO START OF WORK. DO NOT BEGON CONCRETE PROPORTIONS UNLESS THEY HAVE BEEN REVIEWED AND ARE ACCEPTABLE TO THE ENGINEER.

10. REINFORCING BARS SHALL COMPLY WITH REQUIREMENTS OF ASTM C34.

11. CONCRETE WORK EXECUTION

A. CONSTRUCT FORMS TO CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION AND POSITION; AND TO SUPPORT VERTICAL AND LATERAL LOADS.

B. POSITION, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE, UNLESS NOTED OTHERWISE ON THE DRAWINGS:

CAST AGAINST AND EXPOSED TO EARTH.....3 INCHES

EXPOSED TO EARTH OR WEATHER.....2 INCHES

NOT EXPOSED TO WEATHER OR

CONTACT WITH PEELABLE.....1 1/2 INCHES

C. PROVIDE CURB WITH FACES ON GRADE AT NOT GREATER THAN 15 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM 1/4 OF SLAB DEPTH, AS SOON AFTER SLAB FINISHING WITHOUT DISLODING AGGREGATE.

D. STEEL TROWEL FINISH ALL INTERIOR CONCRETE SLABS, BROOM FINISH ALL EXTERIOR CONCRETE SLABS.

E. CURE ALL CONCRETE IN COMPLIANCE WITH ACI 301. USING A LIQUID TYPE MEMBRANE, NON-RESIDUAL, CURING COMPOUND COMPLYING WITH ASTM C309. ASSURE COMPATIBILITY WITH FINISH FLOOR COVERING.

POST-INSTALLED ANCHORS

1. ALL POST-INSTALLED ANCHORS SHALL MEET THE REQUIREMENTS OF THE CODE-CITED EDITION OF ACI 318, APPENDIX 17, AND SHALL BE ACCEPTABLE FOR BOTH CRACKED AND UNCRACKED CONCRETE.

2. EXPANSION ANCHORS HAVE BEEN DESIGNED AS HILTI KIMW BOLT TZ ANCHORS, UNLESS NOTED OTHERWISE.

3. ADHESIVE ANCHORS HAVE BEEN DESIGNED TO USE HILTI HIT HY 200 ADHESIVE IN CONCRETE OR SOID MASONRY, UNLESS NOTED OTHERWISE.

4. EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL. SUBMITTALS ARE THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDE EVALUATION REPORTS FROM THE INTERNATIONAL CODE COUNCIL EVALUATION SERVICE.

5. EMBEDMENT DEPTH IS DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD-BEARING BASE TO THE BOTTOM OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE BUT NOT YET EXPANDED.

6. ADHESIVE ANCHORS SHALL BE ACCEPTABLE FOR LONG-TERM LOADING. WHEN BASE MATERIAL TEMPERATURES ARE BELOW 40 DEG F, ONLY NON-EPOXY-BASED ADHESIVES SHALL BE USED.

7. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR IMPROVED OUT-IN-PLANE ANCHORS. CARE SHALL BE TAKEN TO AVOID CONFLICTS WITH EXISTING REINFORCING BARS. HOLES SHALL BE DRILLED AND CLEANED PER ANCHOR MANUFACTURER'S SPECIFICATIONS.

8. STAINLESS STEEL ANCHORS ARE REQUIRED AT ALL PERMANENTLY EXPOSED WEATHER CONDITIONS.

PRE-FABRICATED WOOD TRUSSES

1. FLOOR & ROOF TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE (PTI) DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES, AND THE ANSI/AMC NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION.

2. PROVIDE TEMPORARY AND PERMANENT BRACING ON ALL TRUSSES, AS REQUIRED TO PROVIDE MEMBER AND TRUSS STABILITY.

3. FLOOR & ROOF TRUSSES SHALL BE DESIGNED AND CONSTRUCTED FOR A MAXIMUM TOTAL LOAD DEFLECTION OF L/360 AND TO SAFELY SUPPORT THE FOLLOWING LOADS:

A. DEAD, LIVE, SNOW, WIND, EARTHQUAKE: SEE PROJECT DESIGN DATA ON COVER SHEET.

B. MECHANICAL PIPE LOAD: TRUSSES SHALL BE DESIGNED FOR A CONCENTRATED LOAD OF 250 LBS HUNG ANYWHERE ALONG THE BOTTOM CHORD.

C. OVER-FRAMING LOAD: TRUSSES SHALL ALSO BE DESIGNED TO SUPPORT ADDITIONAL OVERBUILD FRAMING, SUCH AS THAT WHICH FORMS VALLEYS AND HIPS ON ROOFS.

D. DRIFTED SNOW LOAD: TRUSSES SHALL BE DESIGNED TO SUPPORT DRIFTED SNOW LOADS IN ACCORDANCE WITH THE APPROPRIATE BUILDING CODE.

E. IN-PLANE LATERAL LOADS: TRUSSES SHALL BE DESIGNED TO SUPPORT ANY LATERAL LOADS CARRIED ANALY IN THE PLANE OF THE TRUSS, AS SHOWN ON THE PLANS.

4. GABLED END TRUSSES SHALL HAVE VERTICAL MEMBERS SPACED AT 16" O.C. MAXIMUM.

5. SUBMITTALS SHALL INCLUDE THE FOLLOWING:

A. SHOP DRAWINGS PREPARED UNDER THE SUPERVISION OF, AND SIGNED AND SEALED BY, A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS BUILT. THESE DRAWINGS SHALL INDICATE SPECIES, GRADE, AND SIZES OF LUMBER TO BE USED; PITCH, SPAN, CAMBER, CONFIGURATION, AND SPACING FOR EACH TYPE OF TRUSS REQUIRED; TYPE, SIZE, MATERIAL, FINISH, AND LOCATION OF METAL CONNECTOR PLATES; AND BEARING DETAILS. SHOW TRUSS LAYOUT AND ALL REQUIRED TEMPORARY AND PERMANENT BRACING AFFECTING THE STRUCTURAL CAPACITY OF THE TRUSSES.

PROVIDE COMPLETE ENGINEERING DESIGN CALCULATIONS THAT INCLUDE DESIGN VALUES, DESIGN ANALYSIS INCLUDING ALLOWABLE STRESS DESIGN, STRESS CALCULATIONS, AND CHECKS, AND DESIGN OF ALL CONNECTIONS. PROVIDE EXPLANATIONS FOR ANY DEVIATIONS FROM THE STANDARD DESIGN. ALL DESIGN SHALL BE SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER WHO IS REGISTERED IN THE STATE WHERE THE PROJECT IS BUILT AND WHO IS RESPONSIBLE FOR PREPARATION OF THE CALCULATIONS.

SPECIAL INSPECTIONS

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

a. CONCRETE GROUT DESIGN MIX (PERIODIC)

b. PLACING OF CONCRETE AND REINFORCING STEEL (CONTINUOUS OF CONCRETE SAMPLING / PERIODIC OF REINFORCING)

c. BOLTS & ANCHORS EMBEDDED IN CONCRETE (PERIODIC)

d. STRUCTURAL STEEL FABRICATIONS (UNLESS ALSO APPROVED)

e. STRUCTURAL STEEL BOLTING & WELDING (PERIODIC)

f. POST INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)

g. IN-SITU SOILS, EXCAVATIONS, FILLING & COMPACTION (PERIODIC)

h. WOOD FRAMING:

h.a. SHEAR WALLS; WALL SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)

h.b. DIAPHRAGMS (FLOOR AND ROOF SHEATHING); SIZE, CONFIGURATION, BLOCKING, PANEL GRADE, PANEL THICKNESS, AND FASTENING. (PERIODIC)

h.c. FRAMING MEMBERS AND DETAILS (PERIODIC)

h.d. MATERIAL GRADE (PERIODIC)

h.e. CONNECTIONS; HANGERS, HOLD DOWNS, BUILT-UP COLUMNS, BUILT-UP BEAMS (PERIODIC)

h.f. PRE-ENGINEERED TRUSSES; FRAMING, CONNECTIONS, BRIDGING (PERIODIC)

h.g. THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.

STRUCTURAL STEEL

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS. THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AND CURRENT OSHA STANDARDS.

2. WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL TUBES SHALL CONFORM TO ASTM A513. ALL OTHER SHAPES SHALL CONFORM TO THE LATEST EDITION OF THE AISC STEEL CONSTRUCTION MANUAL.

3. BOLTS UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM A325-N.

4. ANCHOR BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM F1554 GRADE 36.

5. SPlicing OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.

6. ALL STRUCTURAL AND MISCELLANEOUS STEEL ITEMS SHALL RECEIVE ONE COAT OF "TRONGLAD RETARDO RUST INHIBITIVE PAINT 163" (BENJAMIN MOORE) OR APPROVED EQUAL UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS. ALL STEEL SURFACES EMBEDDED IN CONCRETE SHALL NOT BE PAINTED.

PREPARATION OF STEEL SURFACES SHALL MEET THE REQUIREMENTS OF THE STEEL STRUCTURES PAINTING COUNCIL (SSPC-SP1) AND THE REMOVAL OF GREASE AND OIL BY SOLVENT CLEANING (SSPC-SP1) AND THE REMOVAL OF MILL SCALE, RUST, WELD FLUX AND SLAG BY HAND TOOL CLEANING (SSPC-SP2). A PRIMER SHALL BE APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE BUT NOT LESS THAN ONE GALLON PER SQUARE YARD OF SURFACE AREA.

THAT 15 MILS. ANY COATED AREAS SHALL BE TOUCHED UP WITH THE SAME PAINT AFTER ERECTION.

7. ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS STRUCTURAL WELDING CODE. WELDING ELECTRODES SHALL BE E70XX.

DESIGN DATA

2015 INTERNATIONAL BUILDING CODE / ASCE 7-10

BUILDING OCCUPANCY CATEGORY

I

ROOF LOAD

LIVE LOAD (FUTURE PATIO)

DEAD LOAD TOP CHORD

DEAD LOAD BOTTOM CHORD

TOTAL TO JOISTS

140 lbs/sqft

2ND FLOOR LOAD

LIVE LOAD (COMMON AREA)

3/4" LIGHTWEIGHT CONCRETE & 3/4" PLYWOOD

MECHANICAL ALLOWANCE

INSULATION/CEILING

FLOOR STRUCTURE

TOTAL TO FLOOR TRUSS

65 (29) lbs/sqft

ROOF SNOW LOAD

(UNBALANCED & DRIFTING SNOW TO BE DETERMINED IN ADDITION TO UNIFORM LOAD WHERE APPLICABLE)

P_s =

C_s =

L_r =

C_t =

P_e =

10 lbs/sqft

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INDEX OF SHEETS

COVER / GENERAL STRUCTURAL DATA

FOUNDATION PLAN

FOUNDATION DETAILS

2ND FLOOR FRAMING PLAN

2ND FLOOR FRAMING DETAILS

ROOF FRAMING PLAN

ROOF FRAMING DETAILS

S100 - CB

S200 - CB

S210 - CB

S300 - CB

S310 - CB

S400 - CB

S410 - CB

REVISIONS:

No.	Date

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY



CROCKETT
ENGINEERING CONSULTANTS
STRUCTURAL ENGINEER
10000 W. Niring Blvd., Suite 100
Columbia, Missouri 65203
(314) 447-0292
www.crockettengineering.com
Crockett Engineering Consultants, LLC

WALLACE
ARCHITECTS LLC
302 CAMPUSVIEW DR., #208
COLUMBIA, MISSOURI
CLIENT:

OKLAHOMA CITY, OKLAHOMA COUNTY, OKLAHOMA

HARMONY CENTER

DRAWING INCLUDES:

GENERAL
STRUCTURAL DATA

DESIGNED: JMW

DRAWN: JCS

PROJECT NO.: 210292

SHEET: S100 - CB

NOTE:
ALL DIMENSIONS ARE FROM FACE OF FOUNDATION WALL OR FRAMING;
EDGE OF SLAB OR TRUSS/RATTLE; OR CENTERLINE
OF COLUMN, BEAM, OR JOIST UNLESS NOTED OTHERWISE.

FOUNDATION NOTES

- ① REINFORCING CORNER REINFORCING. REFER TO DETAIL ON SHEET S210.
② FOOTING STEP. REFER TO DETAIL F21/S210.

REVISIONS:

No.	Issue Set	Date

THIS SHEET HAS BEEN SIGNED
SEALED AND DATED ELECTRONICALLY



CROCKETT
ENGINEERING CONSULTANTS
STRUCTURAL ENGINEER
1000 W. NINE Mile Blvd., Suite 100
Columbus, Missouri 65204
(314) 447-0292
www.crockettengineering.com
Crockett Engineering Consultants, LLC

WALLACE
ARCHITECTS LLC
302 CAMPUSVIEW DR. #208
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HARMONY CENTER
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DRAWING INCLUDES:

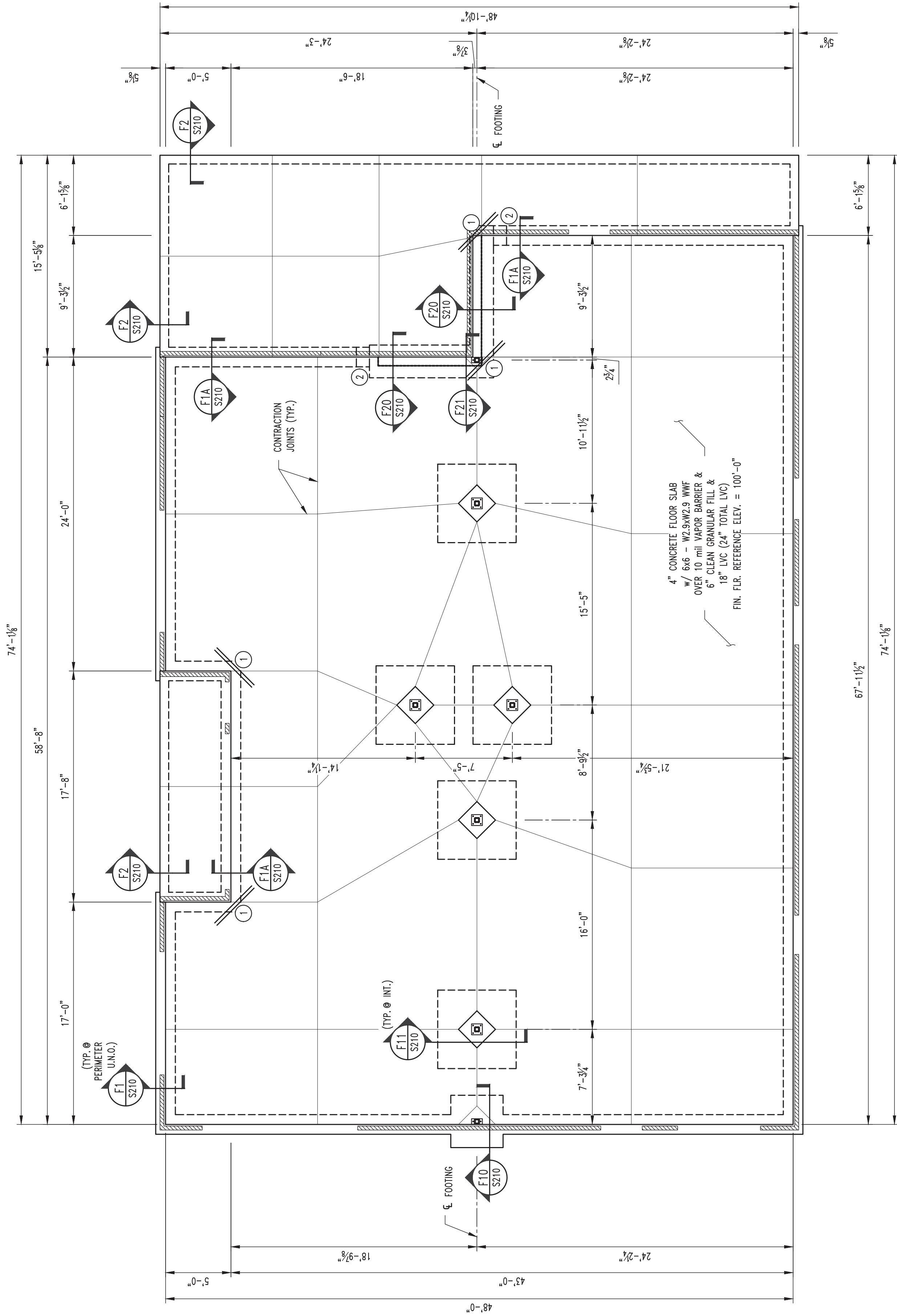
FOUNDATION
PLAN

DESIGNED: JMW

DRAWN: JCS

PROJECT NO.: 210292

SHEET: S200 - CB



FOUNDATION PLAN (COMMUNITY BLDG.)

1
S200

SCALE: 3/8" = 1'-0"

REVISIONS:	
No.	Date
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY	



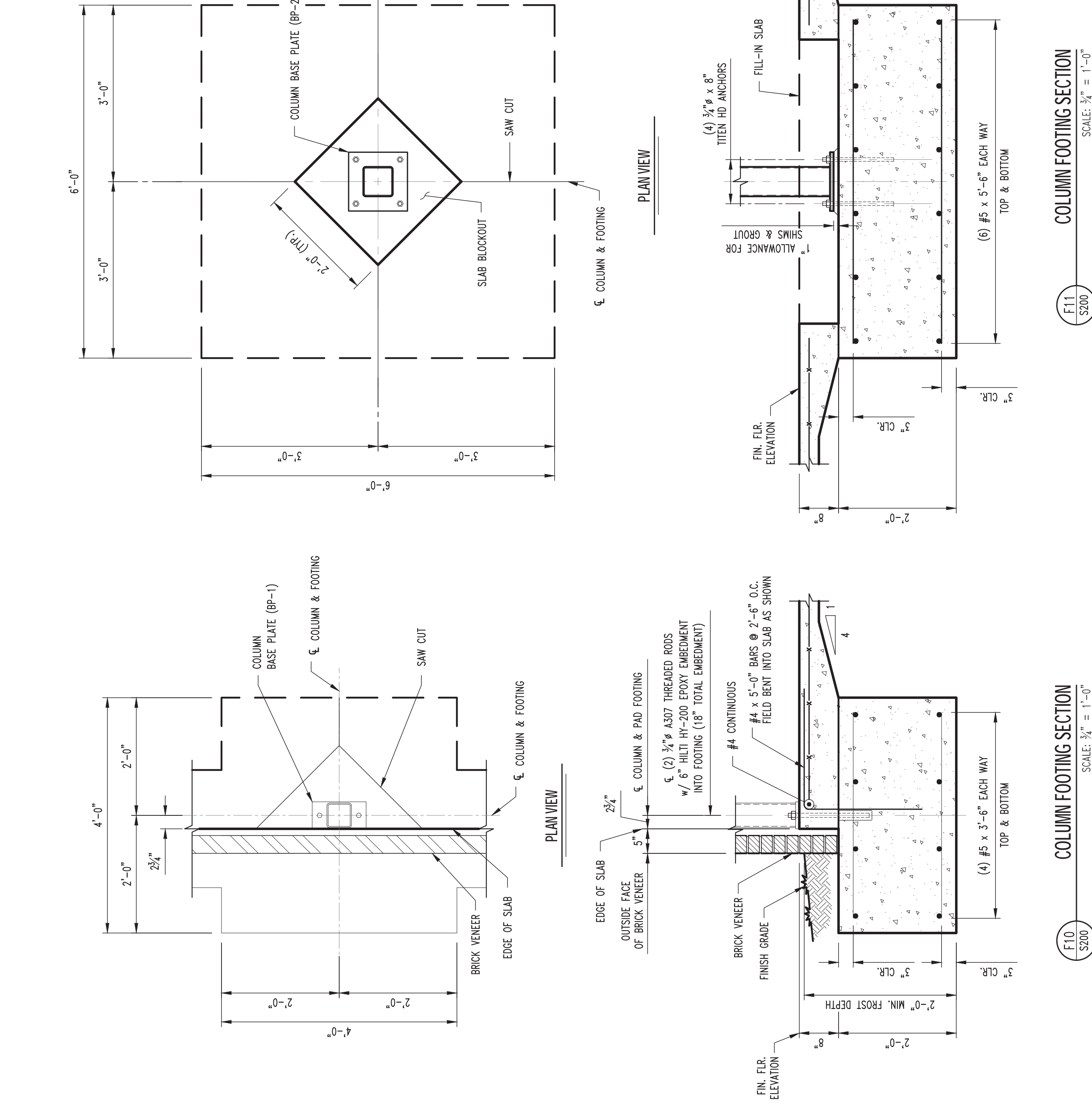
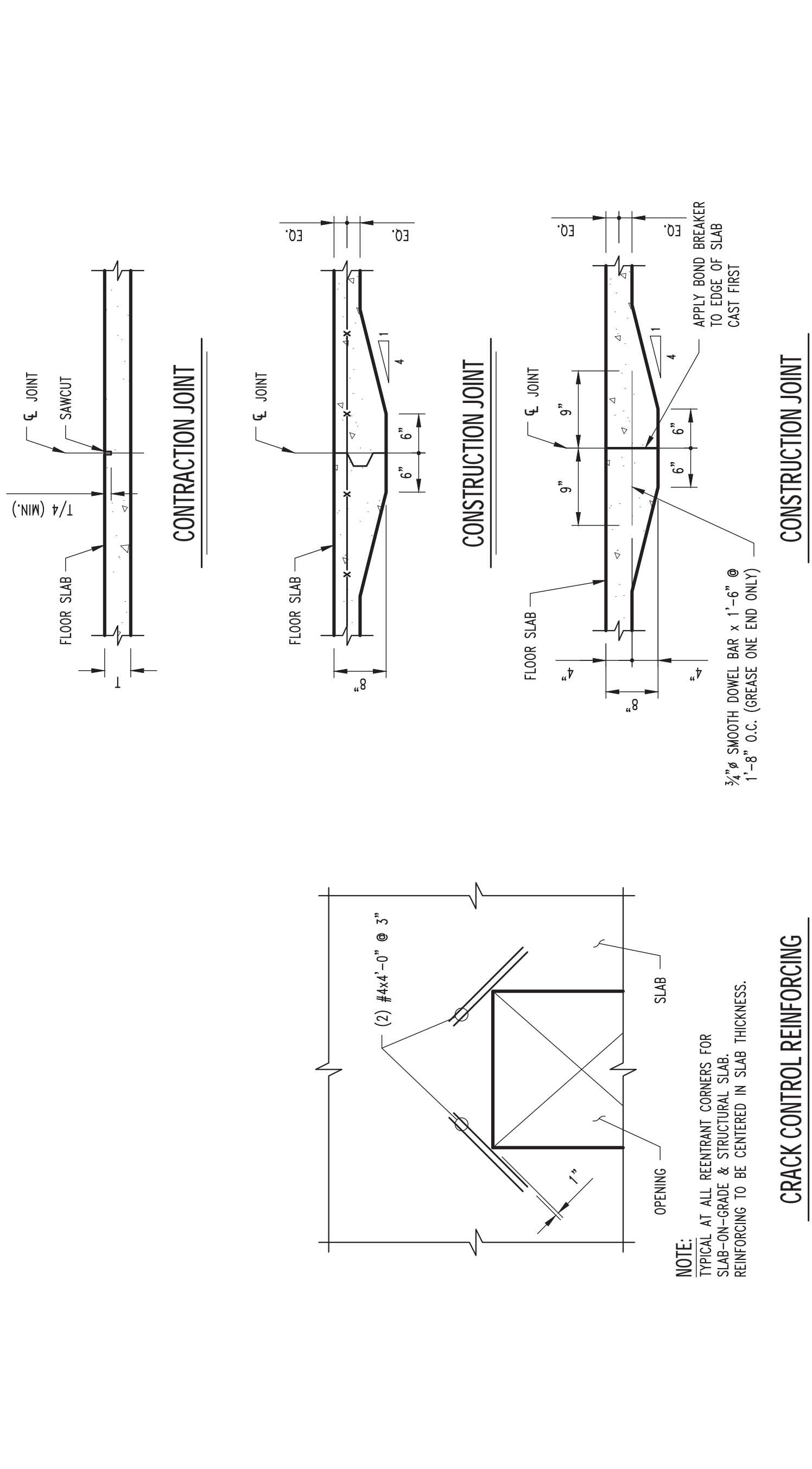
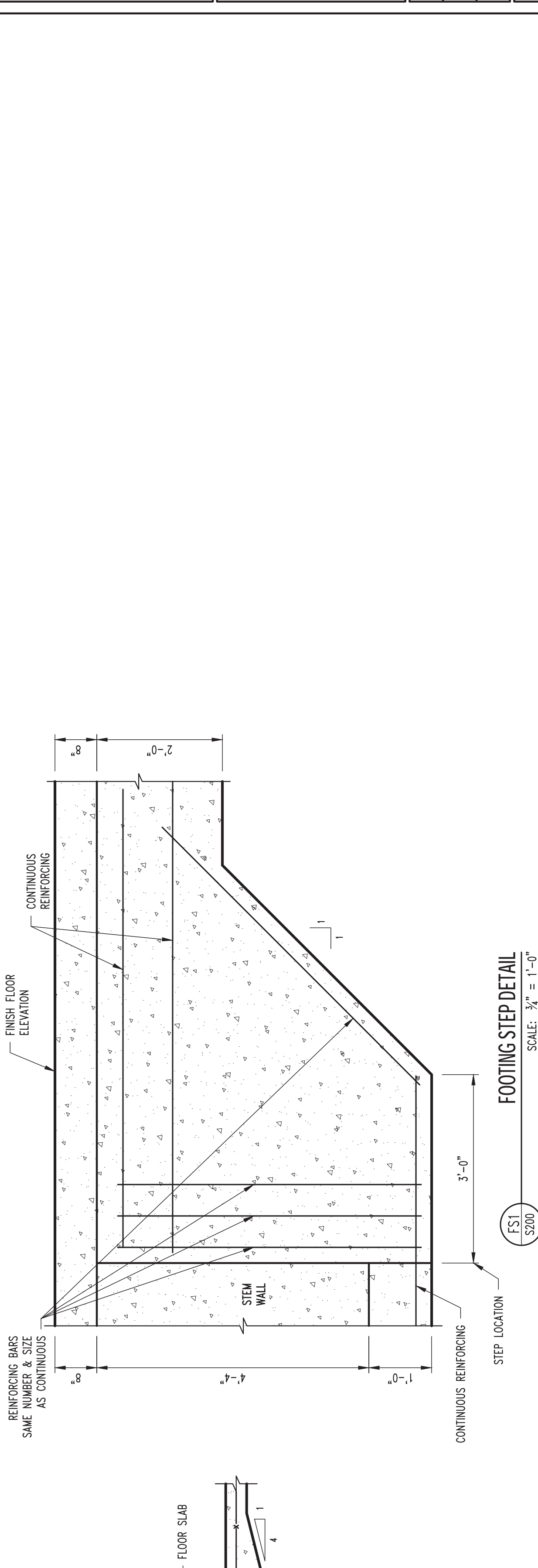
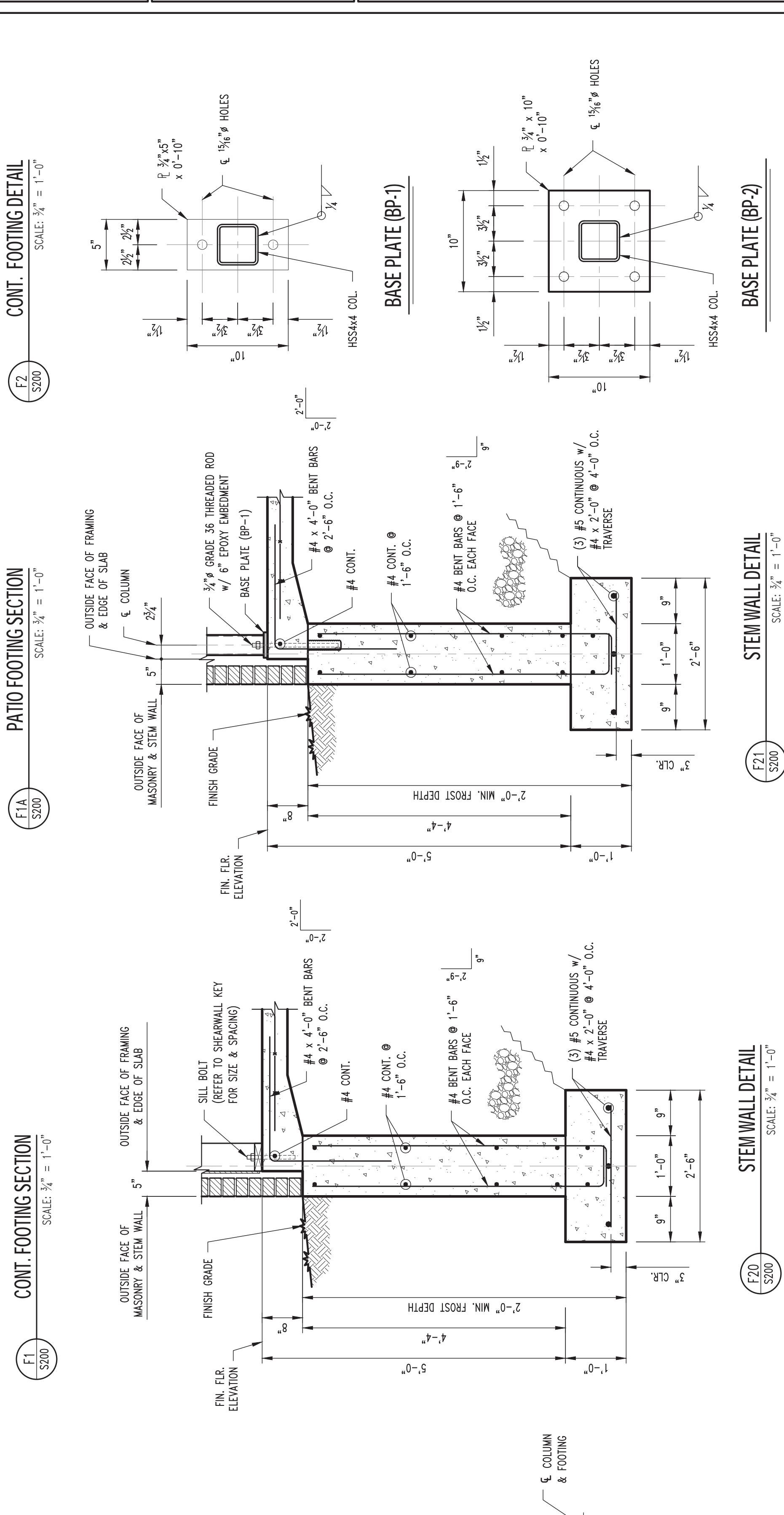
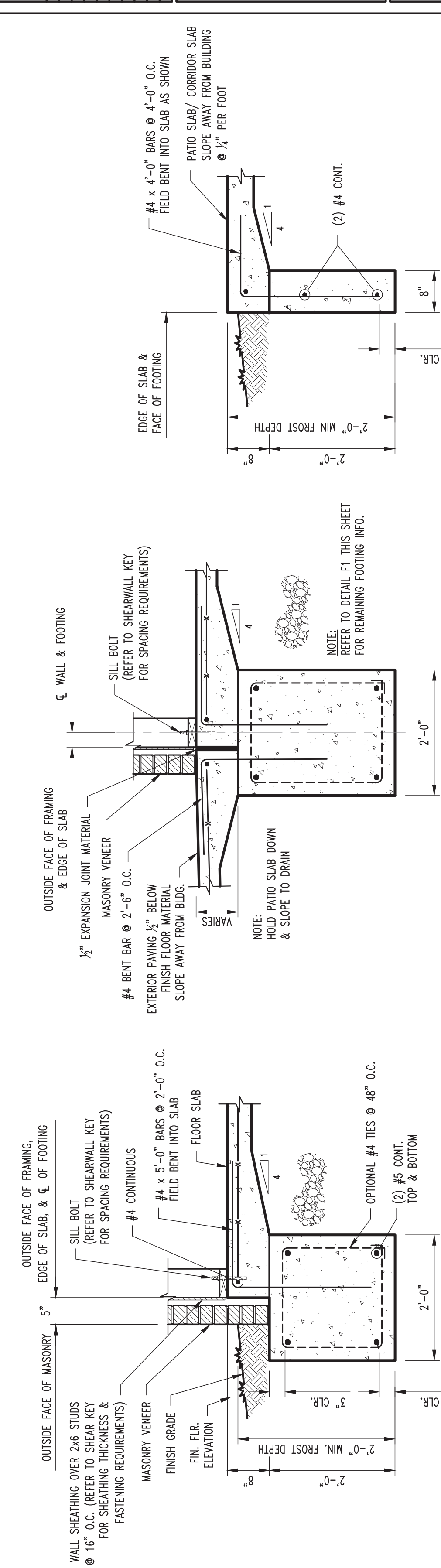
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ENGINEERING CONSULTANTS
STRUCTURAL ENGINEER
1000 W. Nining Blvd., Bldg. 1
COLUMBIA, MISSOURI 65208
(314) 447-0292
www.crockettengineering.com
Crockett Engineering Consultants, LLC

WALLACE
ARCHITECTS LLC
302 CAMPUSVIEW DR. #208
COLUMBIA, MISSOURI
CLIENT:

HARMONY CENTER
OKLAHOMA CITY, OKLAHOMA COUNTY, OKLAHOMA

DRAWING INCLUDES:
FOUNDATION
DETAILS

DESIGNED: JMW
DRAWN: JCS
PROJECT NO.: 210292
SHEET: S210- CB



NOTE:
ALL DIMENSIONS ARE FROM FACE OF FOUNDATION WALL OR FRAMING,
EDGE OF SLAB OR TRUSS/Rafter; OR CENTERLINE
OF COLUMN, BEAM, OR JOIST UNLESS NOTED OTHERWISE.

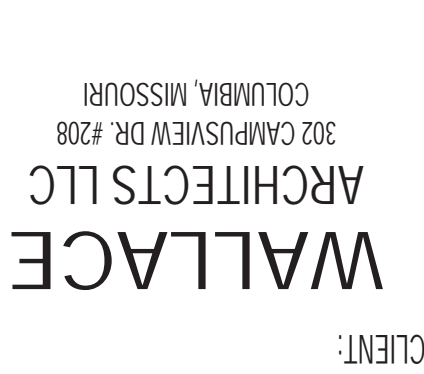
FLOOR FRAMING NOTES

- ① 3-PLY SEL STR. OF 2x10 w/ 3-PLY BUILT UP POST @ EACH END.
② RIG. REFER TO MEP FOR EXACT SIZE & WEIGHT.

REVISIONS:

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ISSUE SET	10/15/2021

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OKLAHOMA CITY, OKLAHOMA COUNTY, OKLAHOMA

DRAWING INCLUDES:

2ND FLOOR
FRAMING PLAN

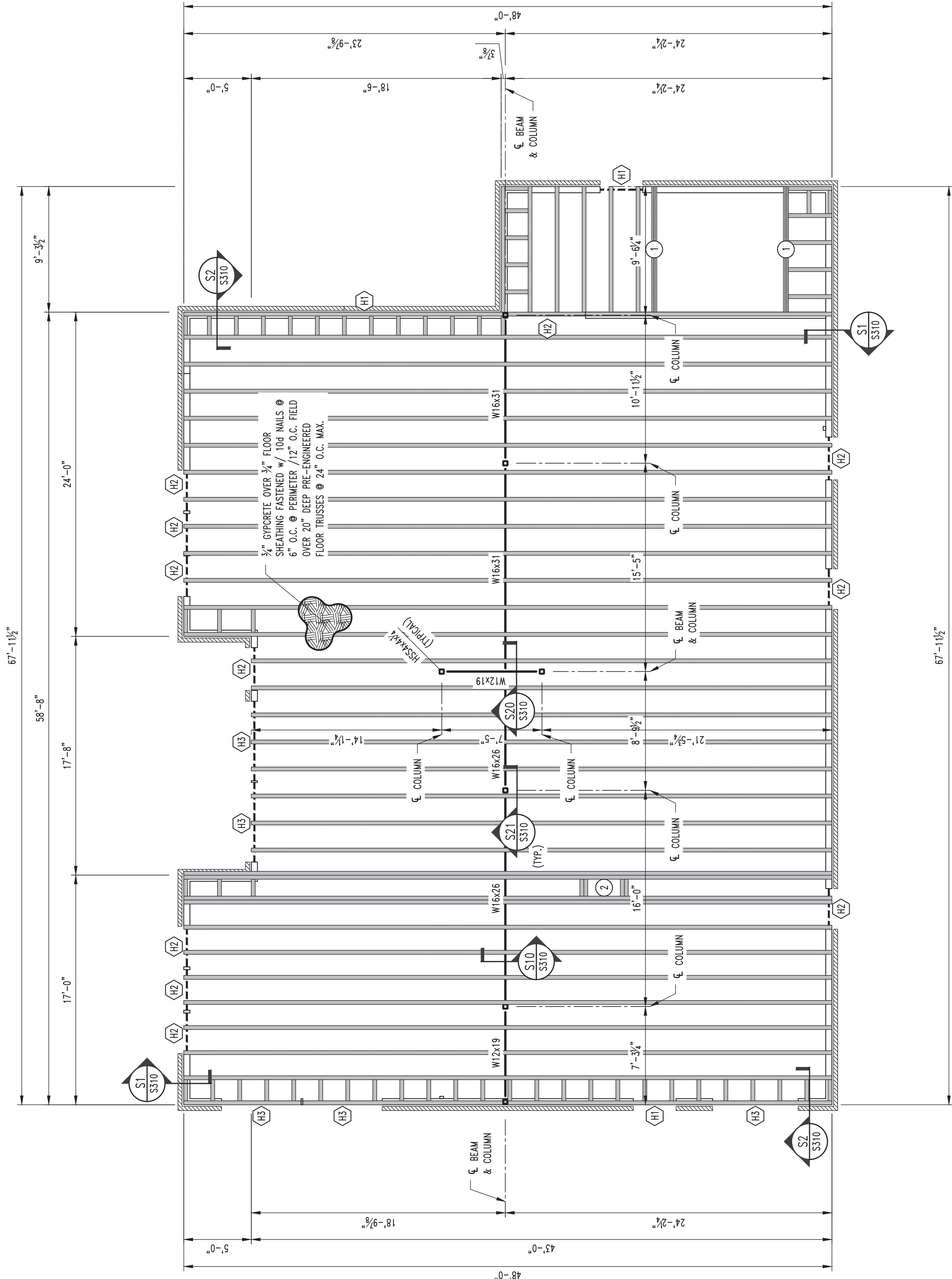
DESIGNED:	JWV
DRAWN:	JCS
PROJECT NO.:	210292
SHEET:	S300 - CB

LINTEL SCHEDULE

LENGTH OF SPAN	MEMBER SIZE (GALVANIZED)
4'-0" & LESS	L8x4x1/4 WITH 6" BEARING EACH END
6'-0" & LESS	L8x4x3/8 (LLV) WITH 6" BEARING EACH END

HEADER SCHEDULE

MARK	HEADER	CRIPPLE	JAMB
"H1"	(2) 2x8 SPF No.1 / No.2	2x6 SPF No.1 / No.2	2x6 SPF No.1 / No.2
"H2"	(2) 2x10 DF-L SEL. STR.	(2) 2x6 SPF No.1 / No.2	2x6 SPF No.1 / No.2
"H3"	(2) 2x12 DF-L SEL. STR.	(2) 2x6 SPF No.1 / No.2	(2) 2x6 SPF No.1 / No.2

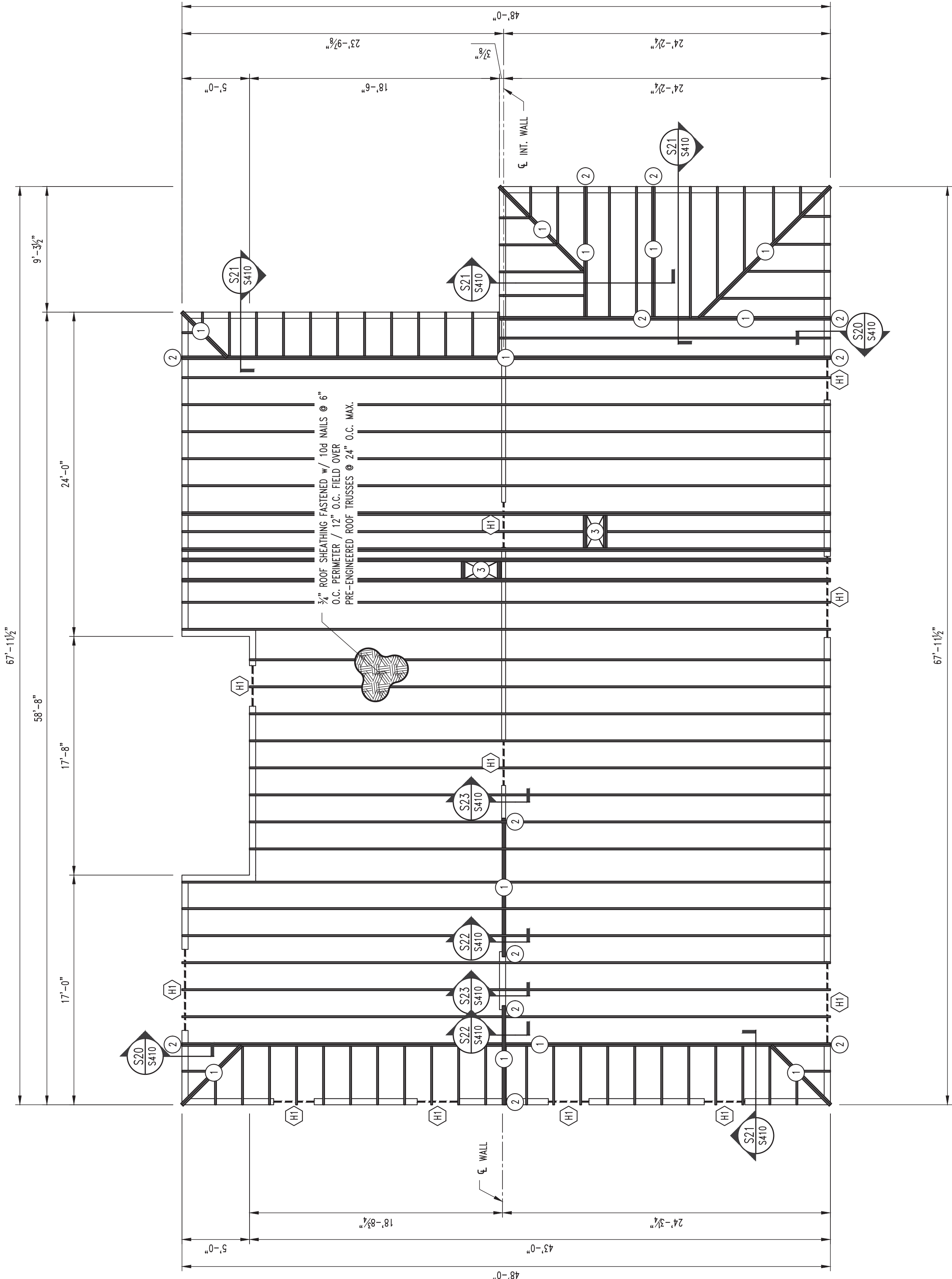


1 S300
2ND FLOOR FRAMING PLAN (COMMUNITY BLDG.)
PLAN NORTH
SCALE: 3/8" = 1'-0"

NOTE:
ALL DIMENSIONS ARE FROM FACE OF FOUNDATION WALL OR FRAMING;
EDGE OF SLAB OR TRUSS/Rafter; OR CENTERLINE
OF COLUMN, BEAM, OR JOIST UNLESS NOTED OTHERWISE.

ROOF FRAMING NOTES

- 1 GIRDER TRUSS
2 2-PLY BUILT-UP POST w/ SIMPSON LGT-2 FASTENED TO GIRDER
3 RTU; REFER TO MEP FOR EXACT SIZE & WEIGHT.



1
S400

ROOF FRAMING PLAN (COMMUNITY BLDG.)

SCALE: 3/8" = 1'-0"

PLAN NORTH

LINTEL SCHEDULE

LENGTH OF SPAN	MEMBER SIZE (GALVANIZED)
4'-0" & LESS	L8x4x1/4 WITH 6" BEARING EACH END
6'-0" & LESS	L8x4x3/8 (LLV) WITH 6" BEARING EACH END

HEADER SCHEDULE

MARK	HEADER	CRIPPLE	JAMB
"H1"	(2) 2x8 SPF No.1 / No.2	2x6 SPF No.1 / No.2	2x6 SPF No.1 / No.2
"H2"	(2) 2x10 DF-L SEL. STR.	(2) 2x6 SPF No.1 / No.2	2x6 SPF No.1 / No.2
"H3"	(2) 2x12 DF-L SEL. STR.	(2) 2x6 SPF No.1 / No.2	(2) 2x6 SPF No.1 / No.2

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www.crockettengineering.com
Crockett Engineering Consultants, LLC

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COLUMBIA, MISSOURI
CLIENT:

HARMONY CENTER
OKLAHOMA CITY, OKLAHOMA COUNTY, OKLAHOMA

DRAWING INCLUDES:

ROOF
FRAMING PLAN

DESIGNED: JWW

DRAWN: JCS

PROJECT NO.: 210292

SHEET:
S400 - CB

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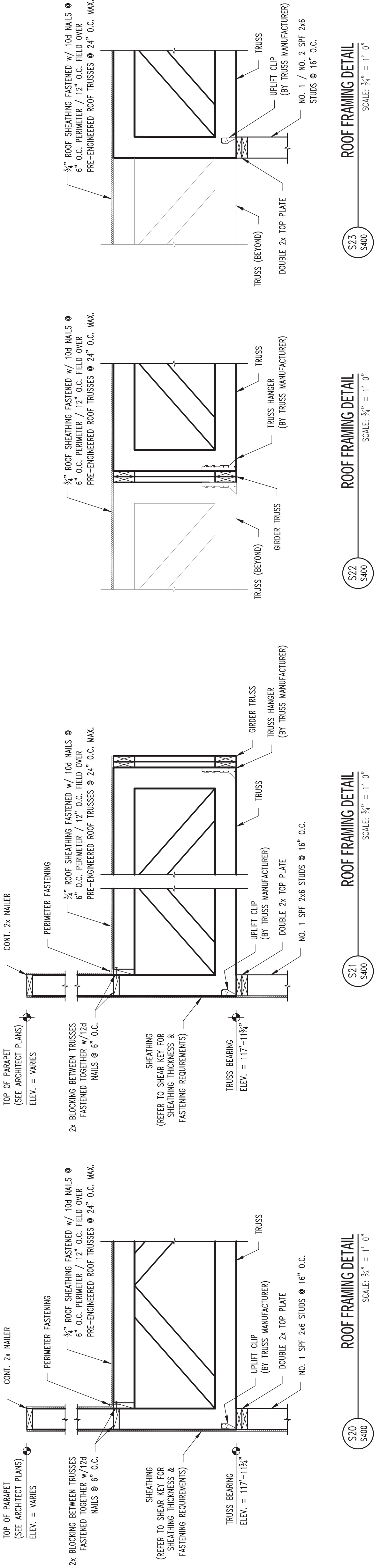
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HARMONY CENTER

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DRAWING INCLUDES:	
ROOF FRAMING DETAILS	
DESIGNED:	JWV
DRAWN:	JCS
PROJECT NO.:	210292
SHEET:	S410 - CB



ROOF FRAMING DETAIL

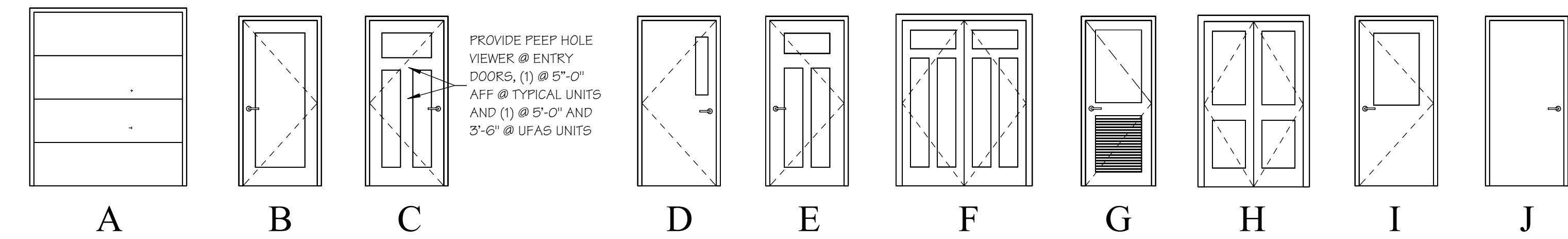
ROOF FRAMING DETAIL

ROOF FRAMING DETAIL

ROOF FRAMING DETAIL

DOOR SCHEDULE					
TYPE MARK	SIZE	ELEV.	MATL.	GLAZING	REMARKS
1	6'-0" x 7'-0" x 2"	A	METAL	NONE	OVERHEAD 4 PANEL
2	3'-0" x 6'-8" x 1 3/4"	B	WD SC	TEMPERED, FULL LITE	FLUSH PANEL, WEATHER STRIPPING, CLOSER, ACCESSIBLE THRESHOLD
3	3'-0" x 6'-8" x 1 3/4"	C	STEEL	NONE	20 MIN. RATED, SPRING HINGES, 3 PANEL, SMOKE GASKET
4	3'-0" x 6'-8" x 1 3/4"	D	STEEL	FIRE-RATED, VIEW GLASS	60 MIN RATED, CLOSER, SMOKE GASKET
5	3'-0" x 6'-8" x 1 3/8"	E	WD HC	NONE	3 PANEL
6	PR. 2'-0" x 6'-8" x 1 3/8"	F	WD HC	NONE	3 PANEL, BALL CATCH
7	2'-8" x 6'-8" x 1 3/8"	G	WD HC	NONE	2-PANEL, HALF LOUVERED
8	PR. 2'-0" x 6'-8" x 1 3/8"	H	WD HC	NONE	2-PANEL, BALL CATCH
9	3'-0" x 6'-8" x 1 3/4"	E	WD SC	NONE	20 MIN. RATED, SPRING HINGES, 3 PANEL, SMOKE GASKET
10	3'-0" x 6'-8" x 1 3/4"	I	METAL	TEMPERED, HALF LITE	FLUSH PANEL, WEATHERSTRIPPING, CLOSER, ACCESSIBLE THRESHOLD
11	3'-0" x 6'-8" x 1 3/4"	J	METAL	NONE	FLUSH PANEL, WEATHERSTRIPPING, CLOSER

DOOR ELEVATIONS



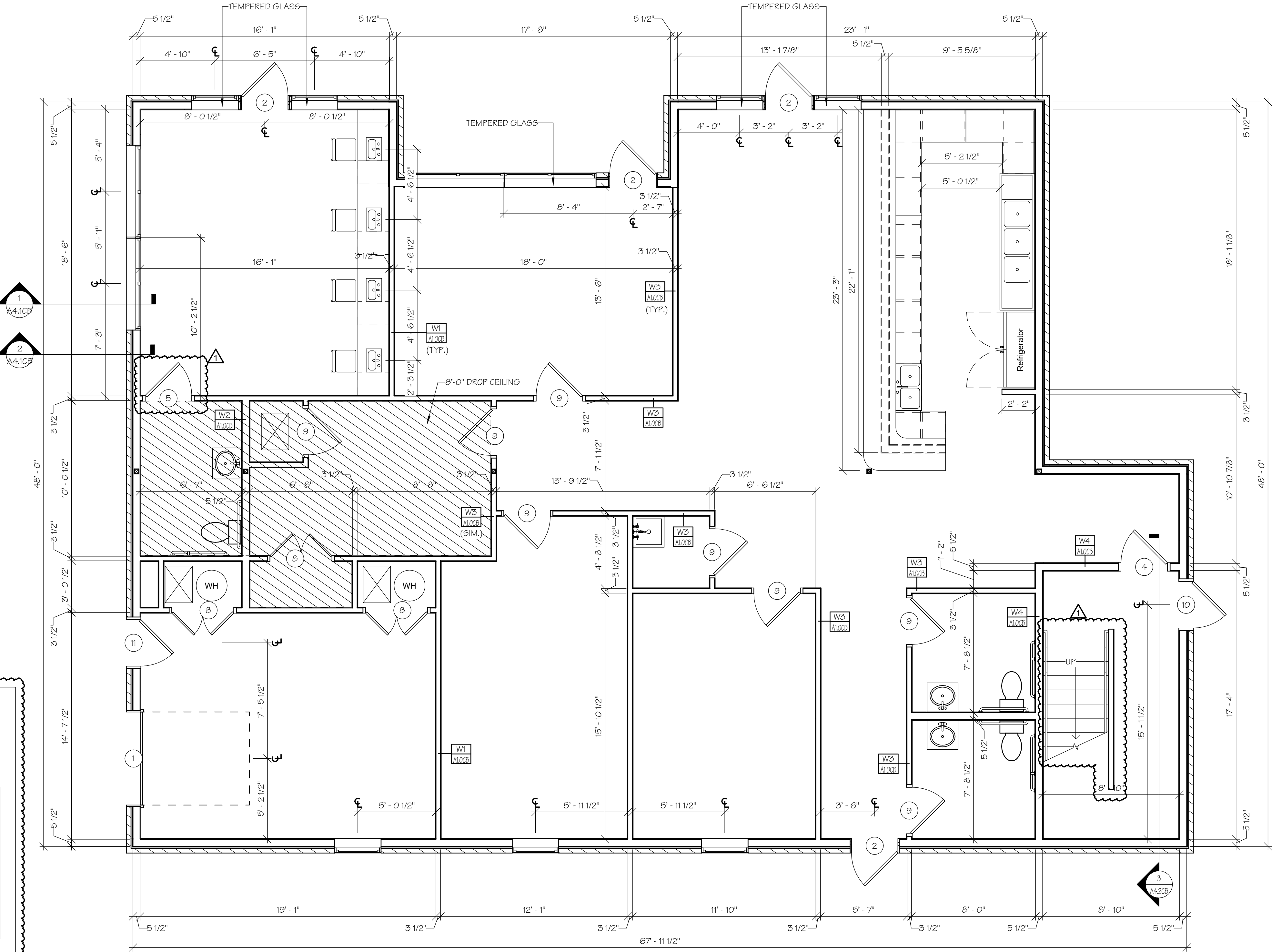
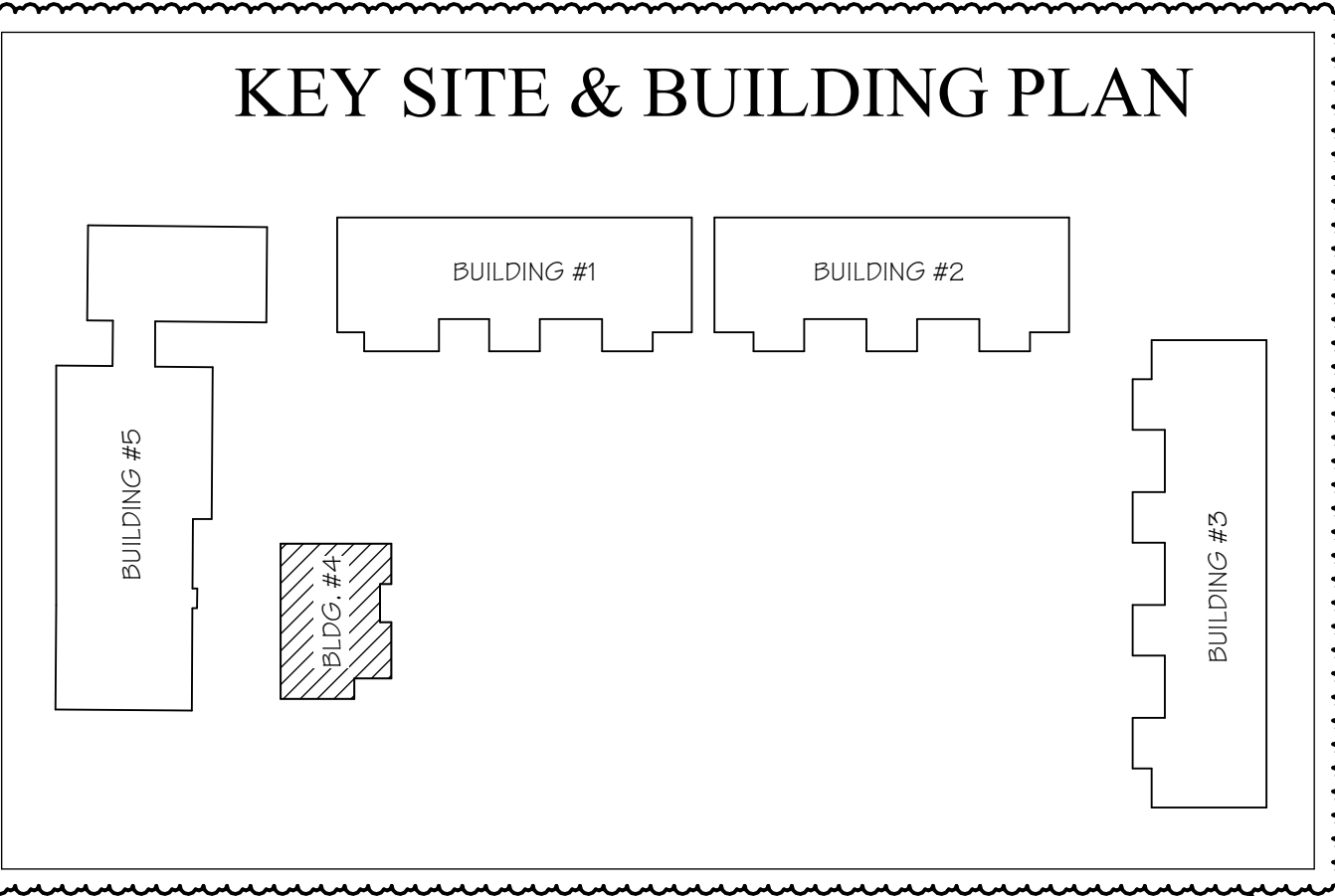
WALL TYPES

W1

W2

W3

W4



COMMUNITY BUILDING PLAN - 1ST FLOOR
SCALE: 1/4" = 1'-0"

JURISDICTION APPROVAL

1

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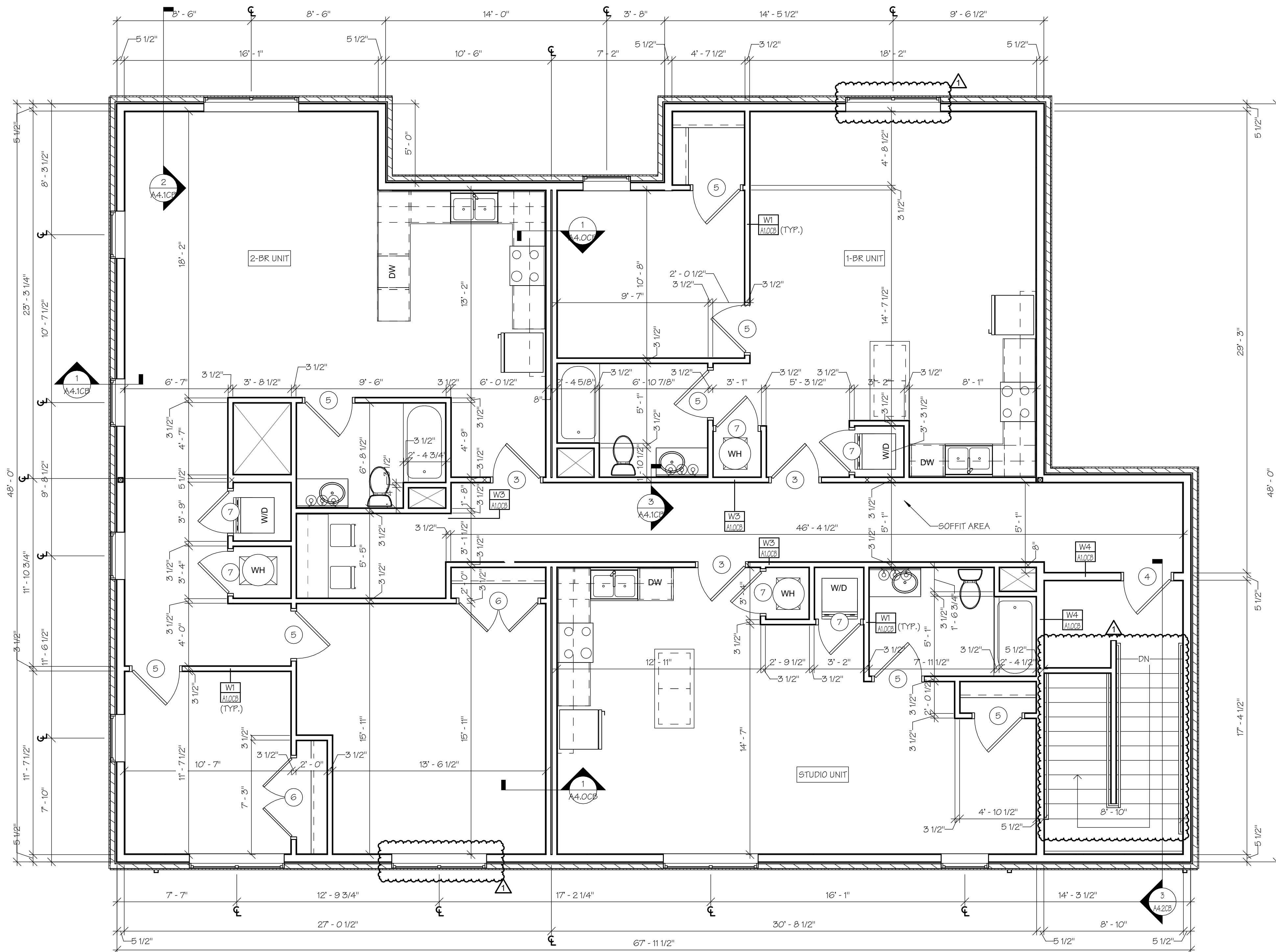
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SEE SHEET A1.0CB FOR DOOR
SCHEDULE, ELEVATIONS & WALL TYPES.



COMMUNITY BUILDING PLAN - 2ND FLOOR
SCALE: 1/4" = 1'-0"

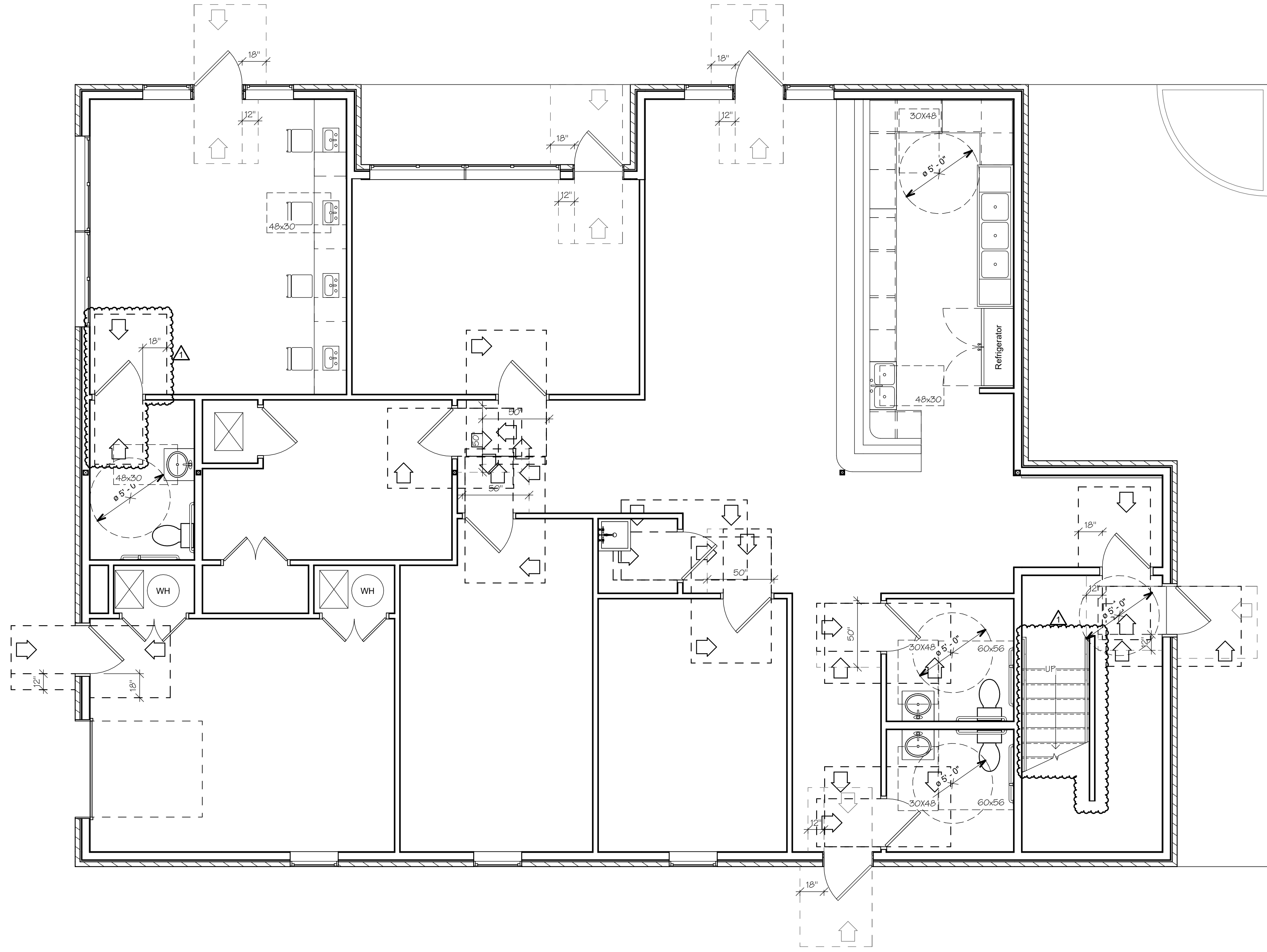
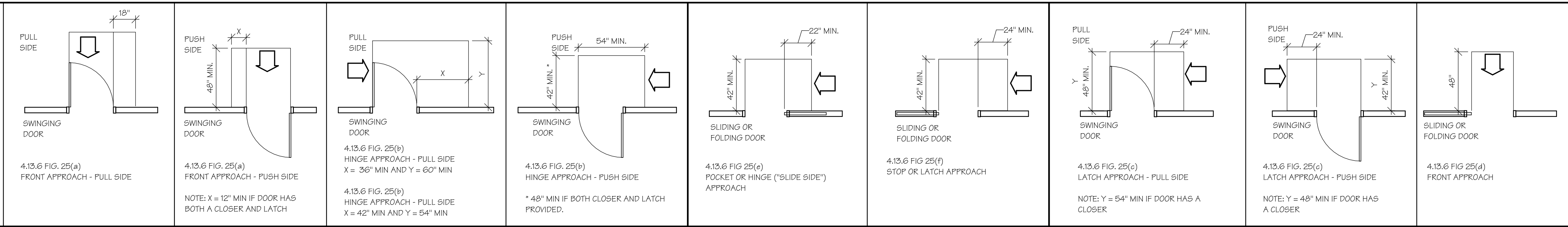
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ADDENDUM #1

MANEUVERING
CLEARANCES
AT DOORS

PER UFAS

NOTE: WHERE ANY OBSTRUCTION WITHIN 18 INCHES OF THE LATCH SIDE OF A DOORWAY PROJECTS MORE THAN 8 INCHES BEYOND THE FACE OF THE DOOR, MEASURED PERPENDICULAR TO THE FACE OF THE DOOR, MANEUVERING CLEARANCES FOR A FORWARD APPROACH SHALL BE PROVIDED.

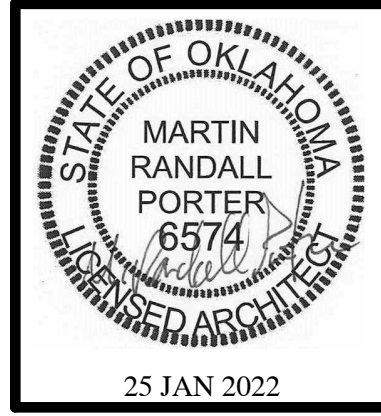


1 COMMUNITY BUILDING CLEAR FLOOR SPACE PLAN - 1ST FLOOR

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

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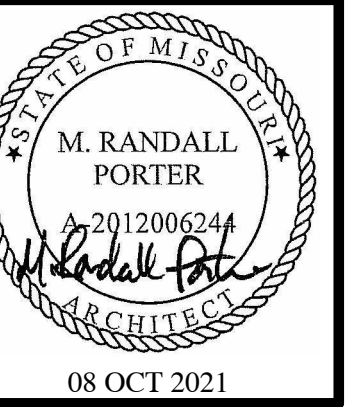
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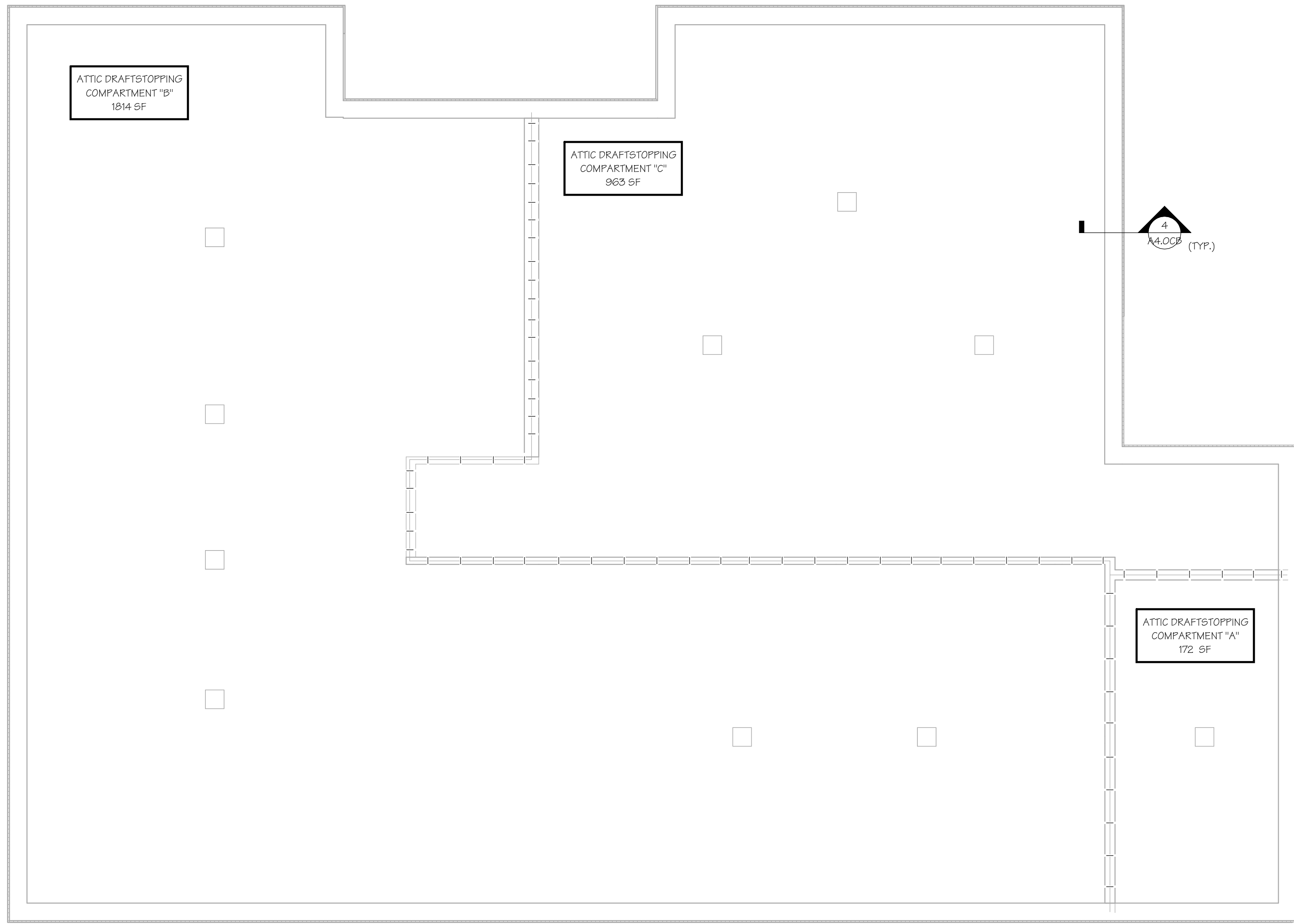
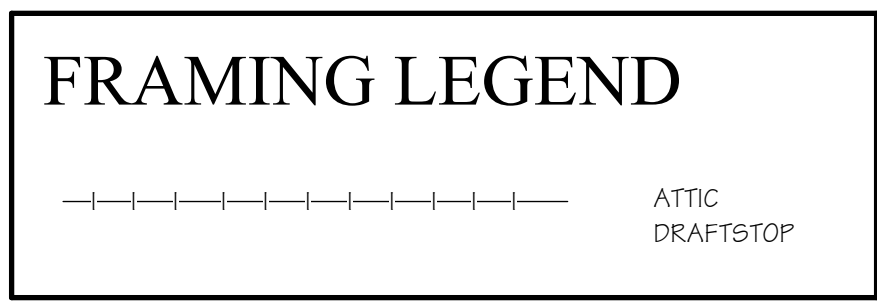


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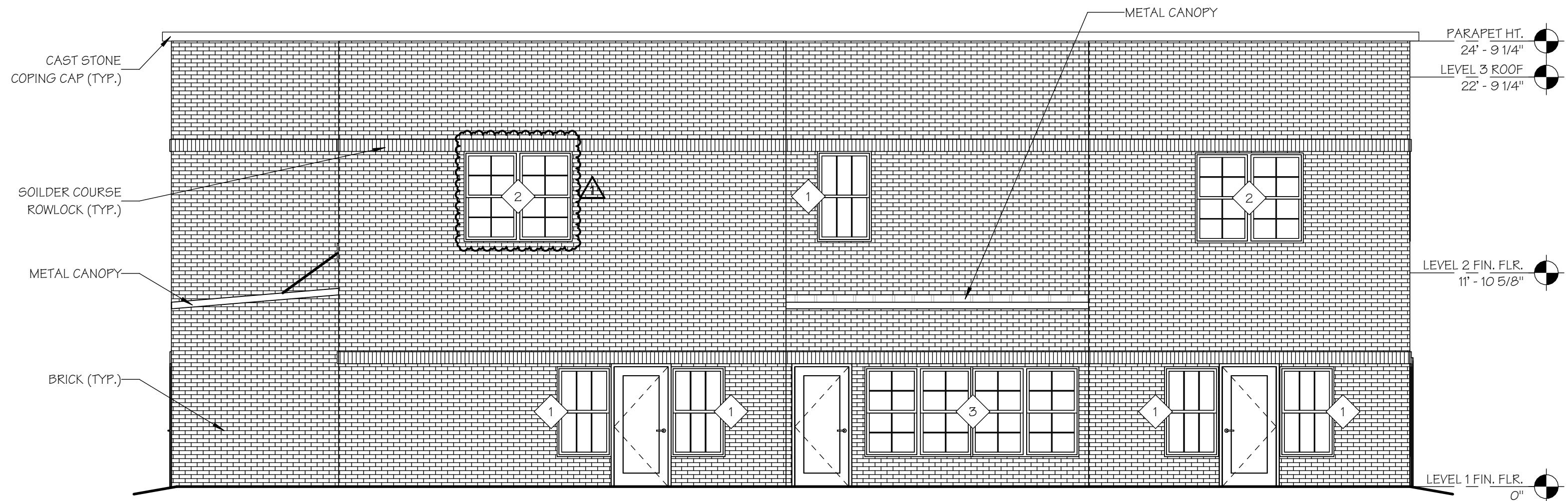
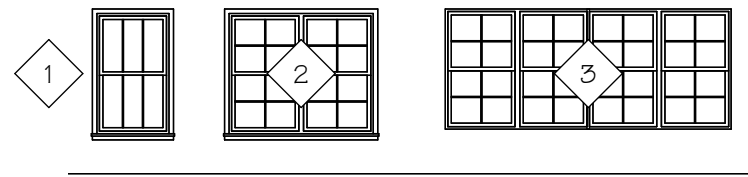
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COMMUNITY BUILDING ROOF PLAN

1
A200B SCALE: 1/4" = 1'-0"

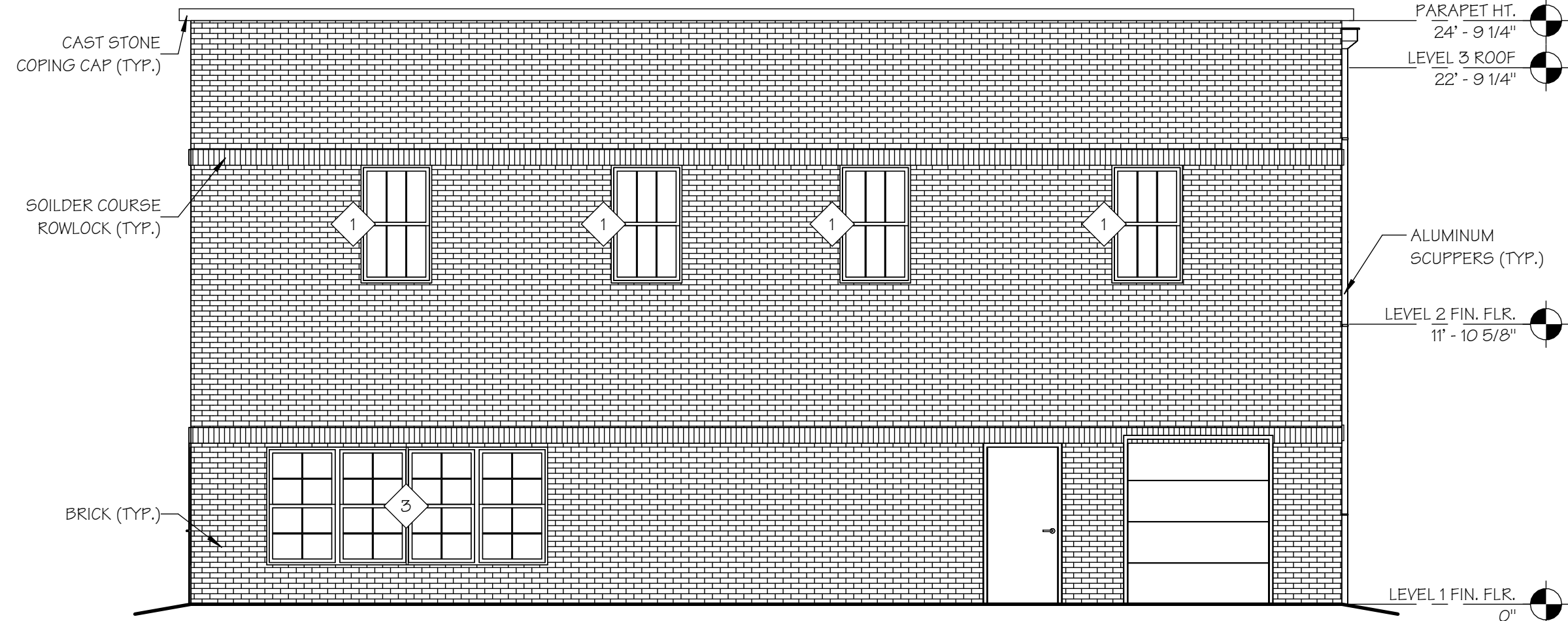
WINDOW SCHEDULE TYPE MARK				
NOTE: CONTRACTOR SHALL CERTIFY THAT BEDROOM WINDOWS INSTALLED PROVIDE EGRESS OPENING OF 5.7 SQ. FT. (MIN.) WITH MIN. CLEAR HEIGHT OF 24" AND A CLEAR WIDTH OF 20"				
NOTE: MIN. ONE OPERABLE WINDOW IN EACH BEDROOM AND LIVING ROOM WITH 36" MAX. SILL HEIGHTS, 44" IN. GARDEN LEVEL. (PARTIAL BELOW GRADE) IS ACCEPTABLE.				
NOTE: PROVIDE WINDOW OPENING RESTRICTIONS ON SECOND FLOOR WINDOWS.				
TYPE MARK	WIDTH X HEIGHT	GLAZING	HARDWARE	COMMENTS
1	3' - 0" X 5' - 0"	INSUL LOW "E"	STANDARD	MUNTINS W SCREEN, ALUMINUM
2	6' - 0" X 5' - 0"	INSUL LOW "E"	STANDARD	MUNTINS W SCREEN, ALUMINUM
3	6' - 0" X 5' - 0"	LOW "E"	STANDARD	MUNTINS W SCREEN, ALUMINUM

WINDOW ELEVATIONS



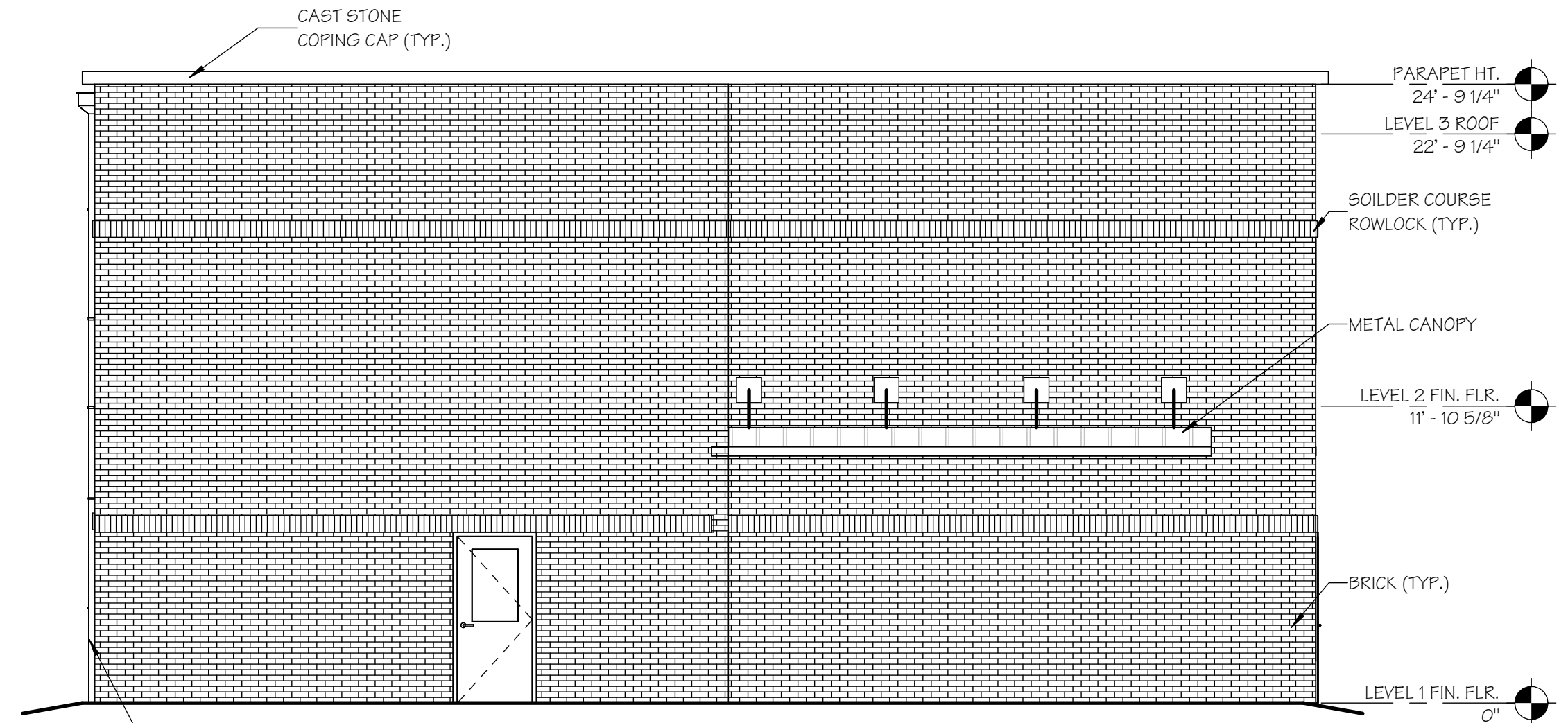
FRONT ELEVATION

2
A3.003 SCALE: 3/16" = 1'-0"



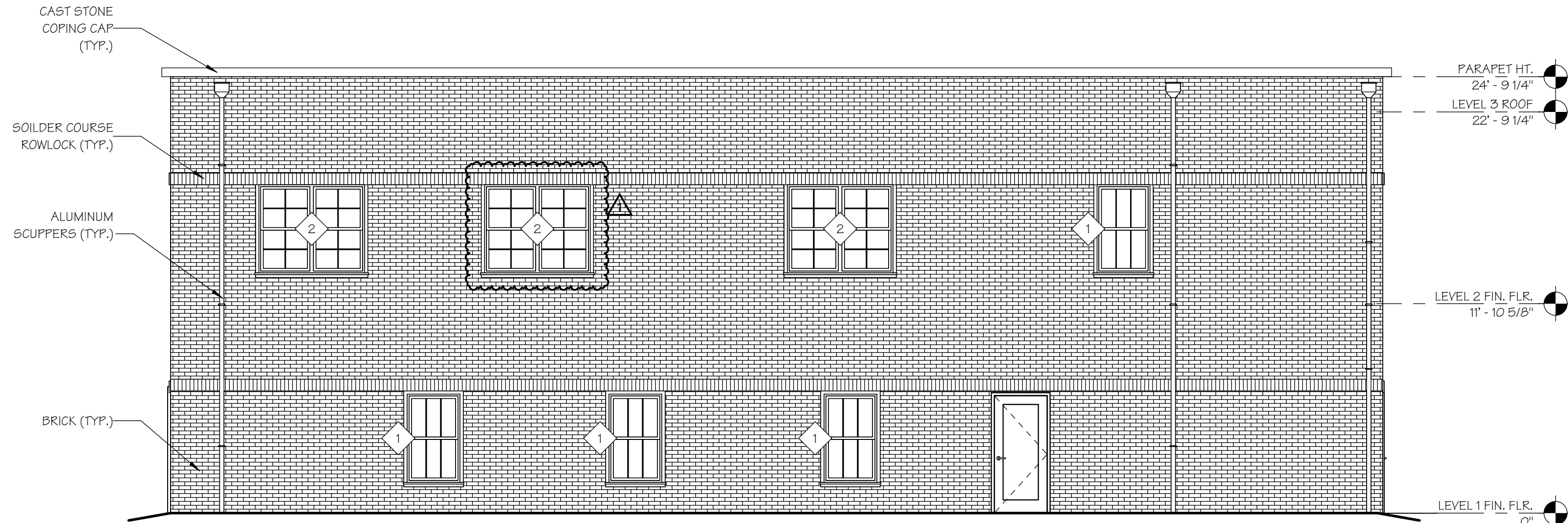
LEFT SIDE ELEVATION

1
A3.003 SCALE: 3/16" = 1'-0"



RIGHT SIDE ELEVATION

3
A3.003 SCALE: 3/16" = 1'-0"



REAR ELEVATION

4
A3.003 SCALE: 3/16" = 1'-0"

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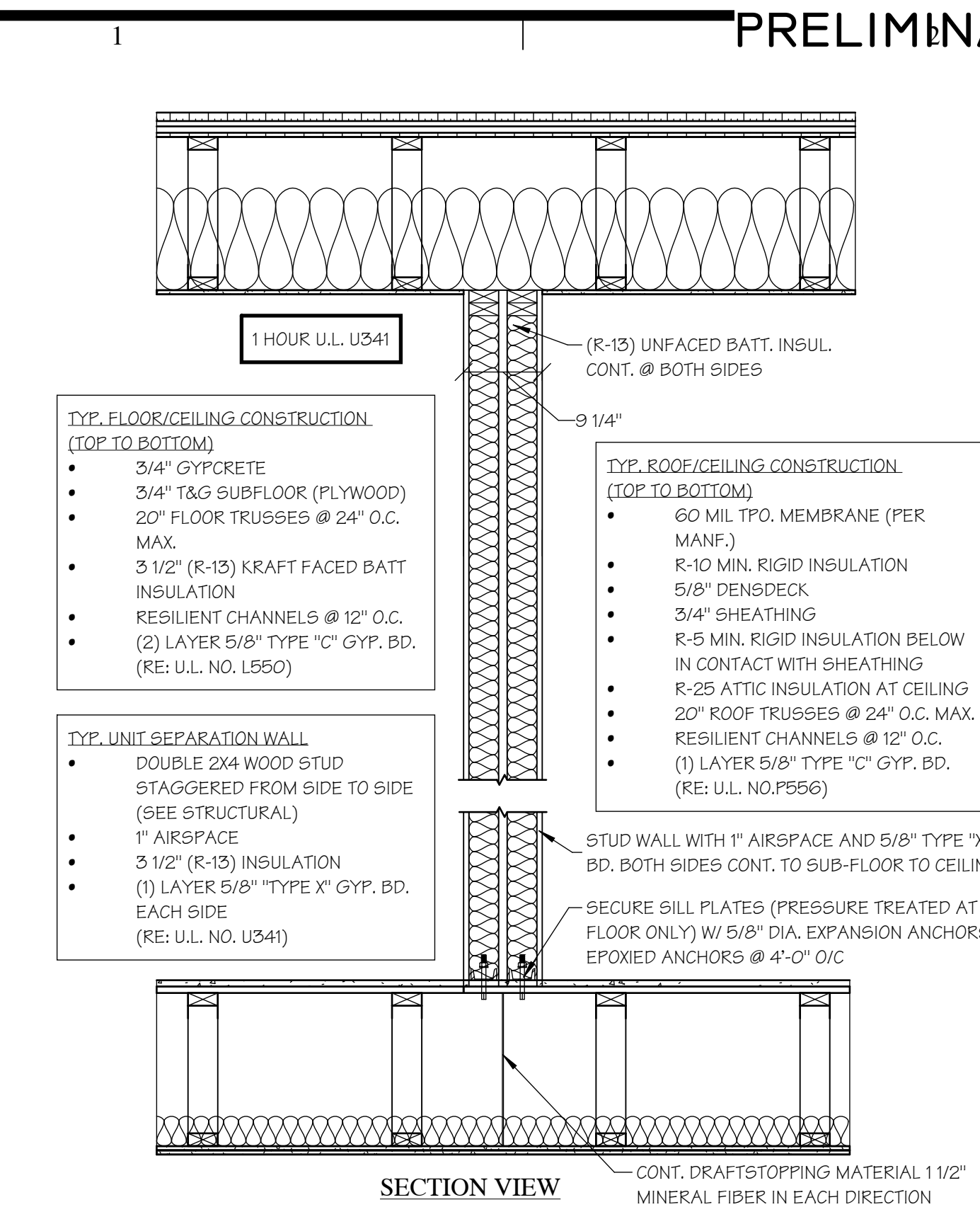


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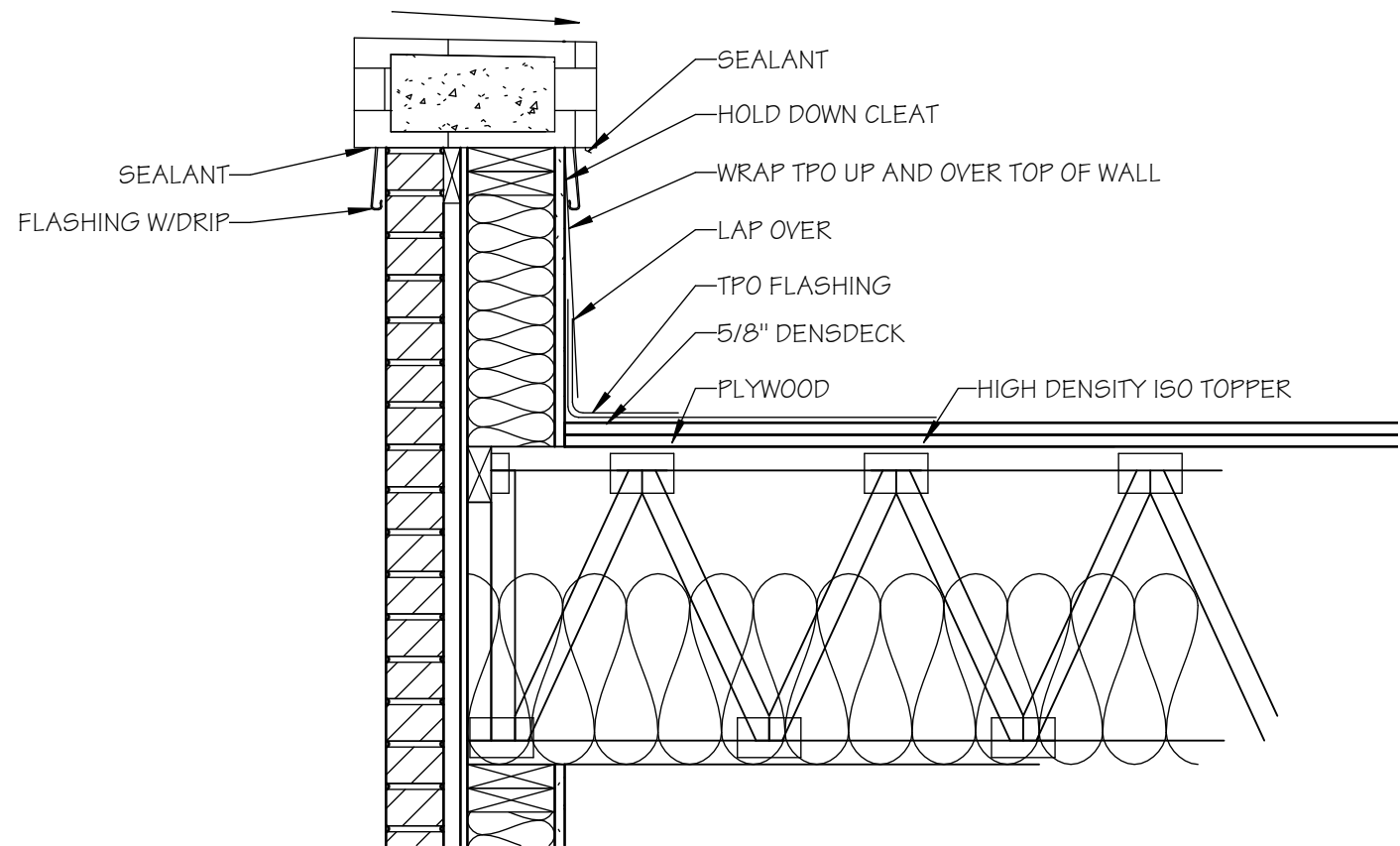
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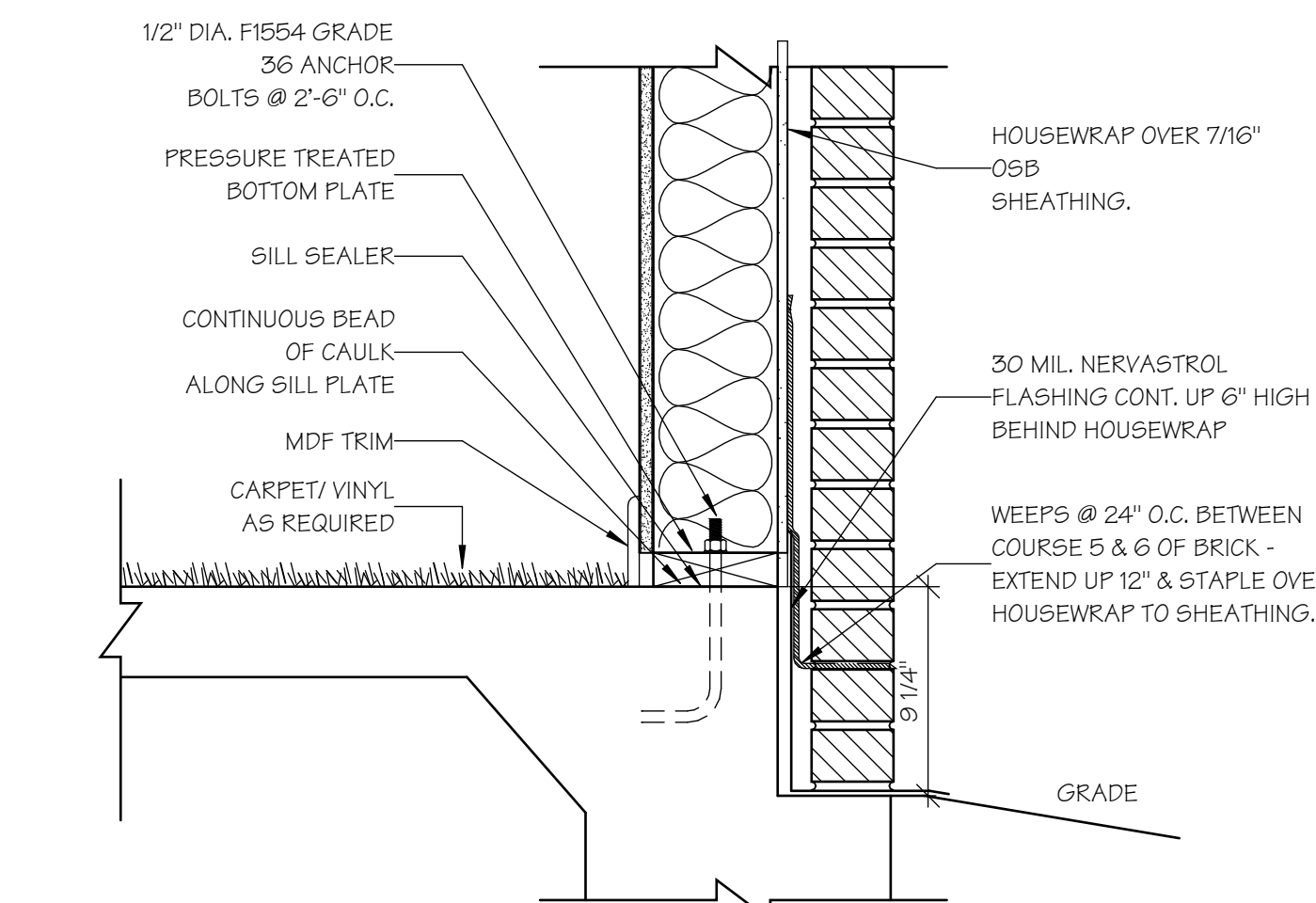
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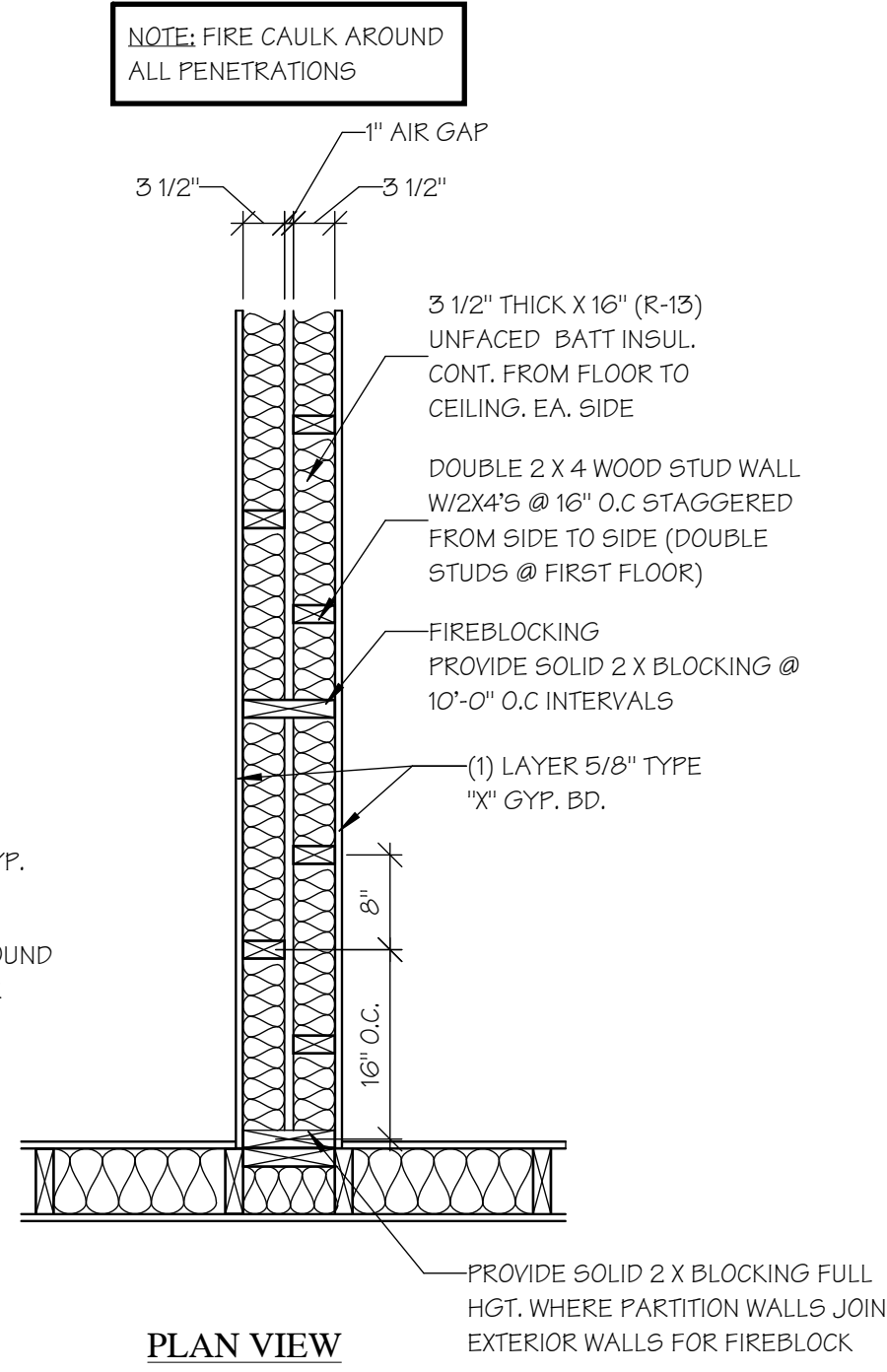
1 1-HR DWELLING UNIT SEPARATION WALL
SCALE: 3/4" = 1'-0"



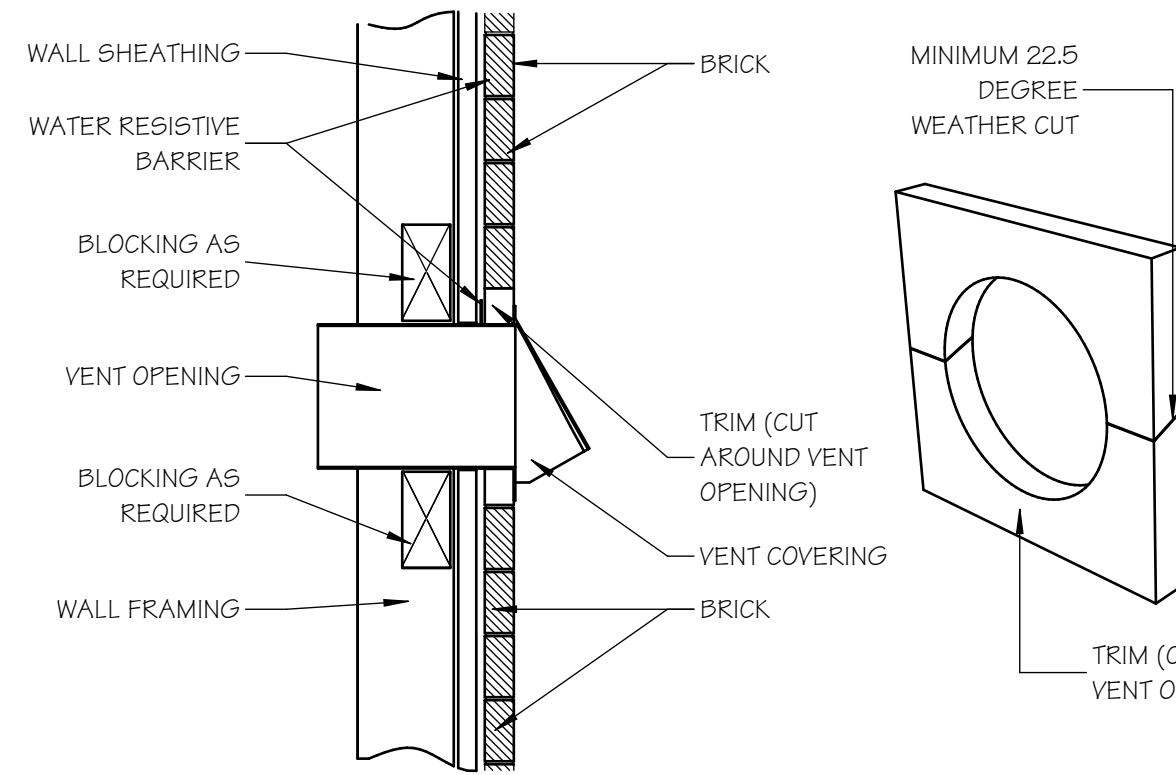
4 CAST STONE DETAIL
SCALE: 1" = 1'-0"



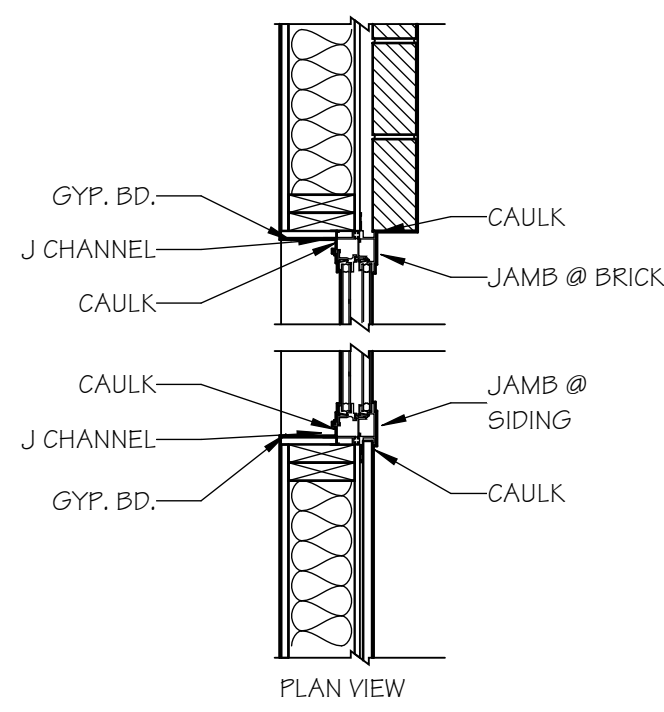
10 FLASHING DETAIL
SCALE: 1 1/2" = 1'-0"



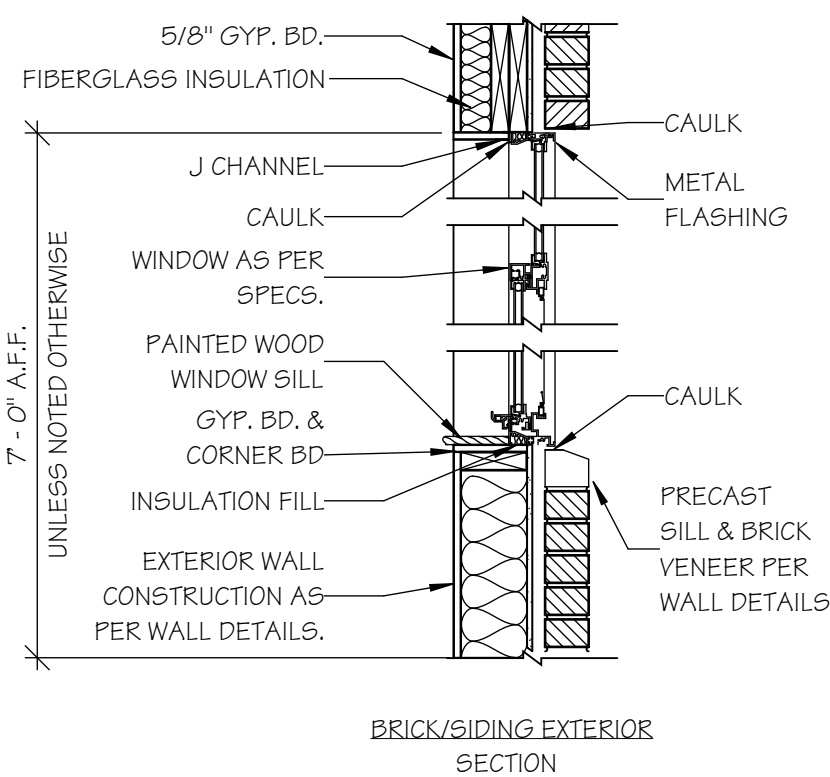
PLAN VIEW



5 DRYER VENT DETAIL
SCALE: 1/2" = 1'-0"

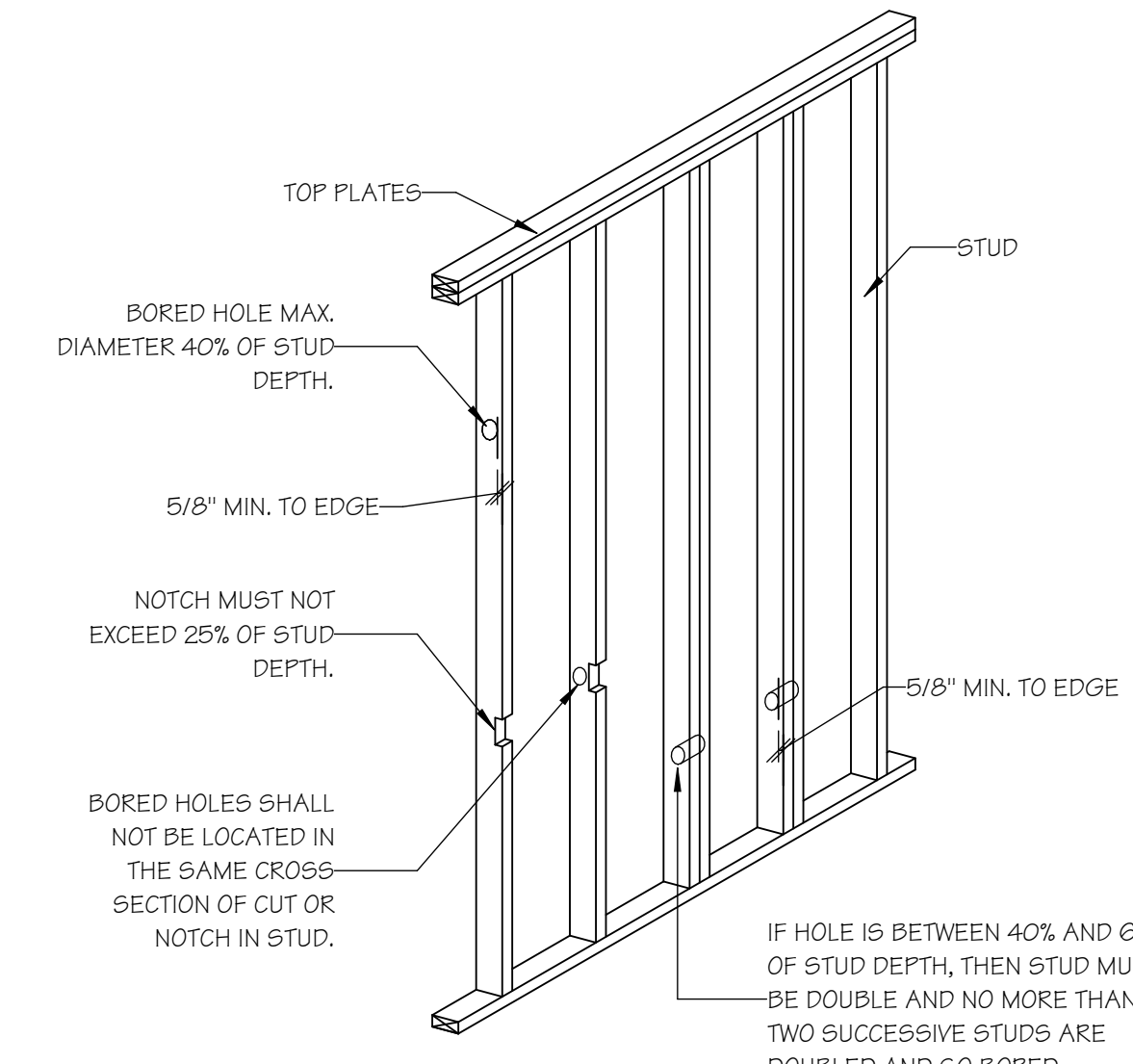


NOTE:
WINDOWS W/ SIDING ABOVE REQUIRE
FLASHING & CAULKING @ SIDING / FLANGE
JUNCTION

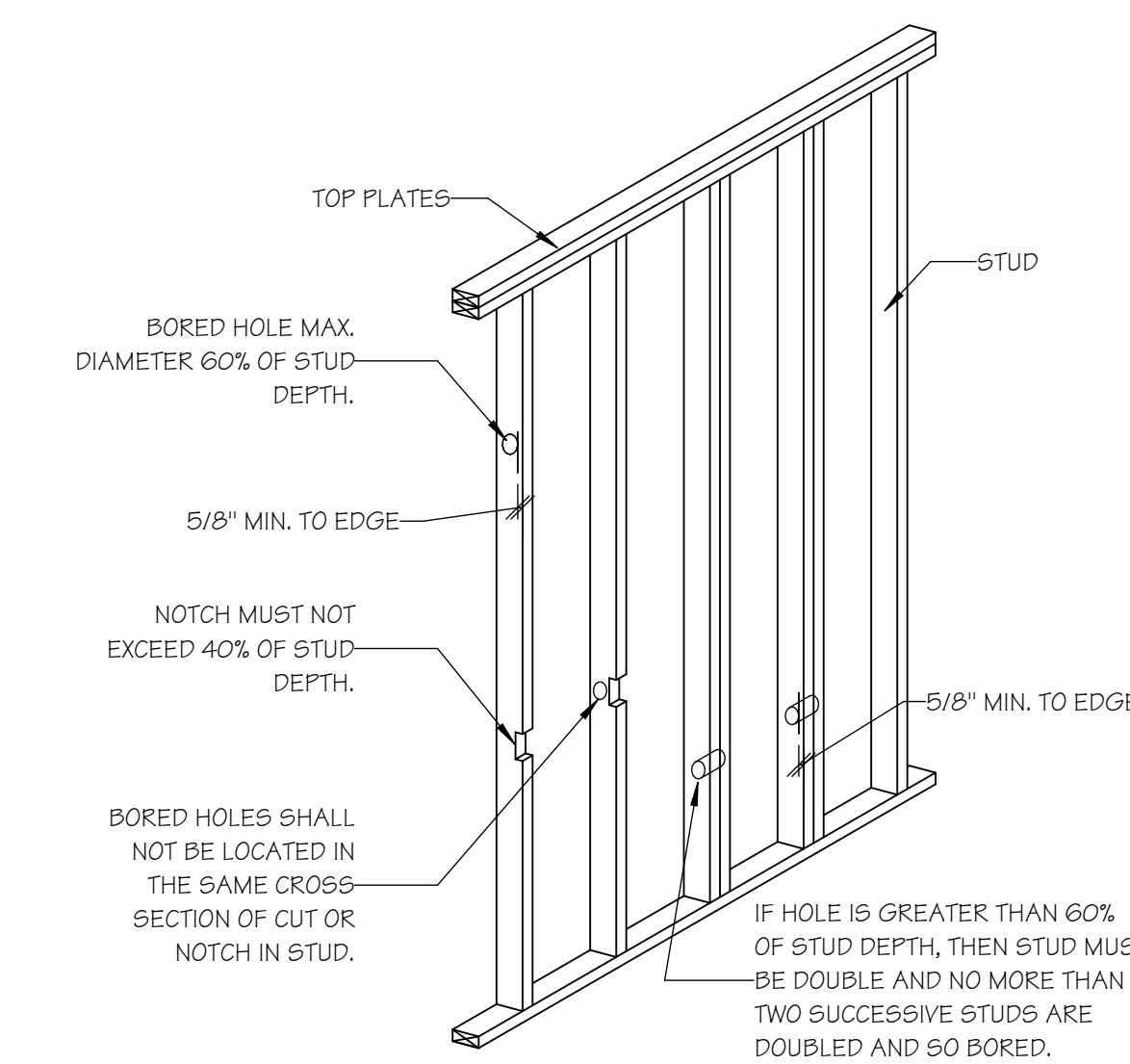


NOTE:
FILL ALL VOIDS AROUND WINDOW UNITS W/INSULATION PRIOR
TO GYP. BD. INSTALLATION

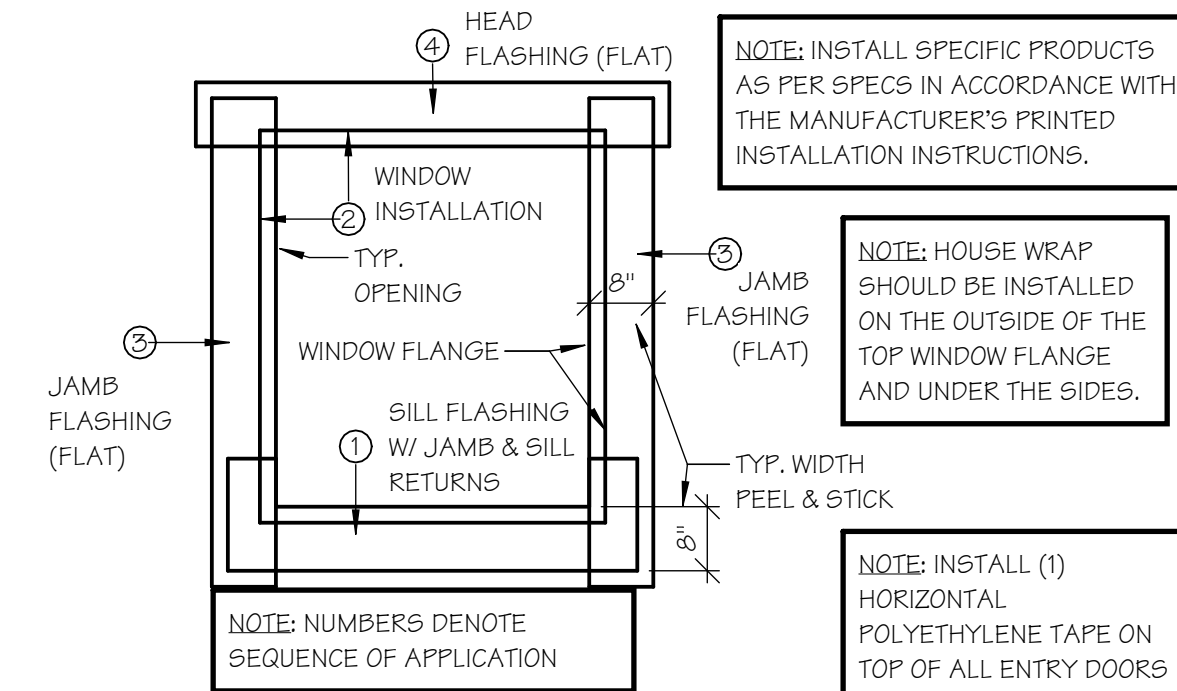
11 WALL SECTIONS AND DETAILS AT WINDOWS
SCALE: 3/4" = 1'-0"



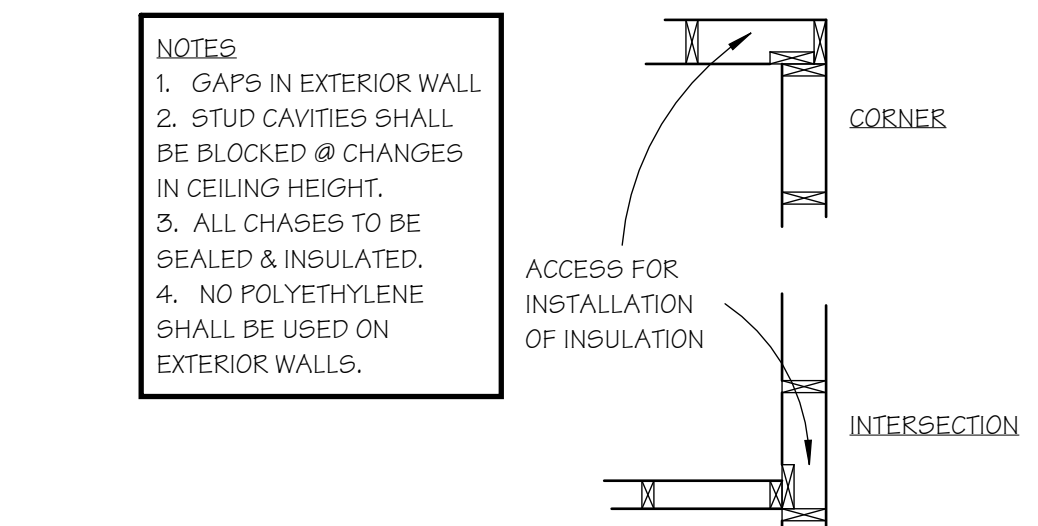
2 LOAD BEARING WALL NOTCHING & BORING HOLE DETAILS
SCALE: 1/2" = 1'-0"



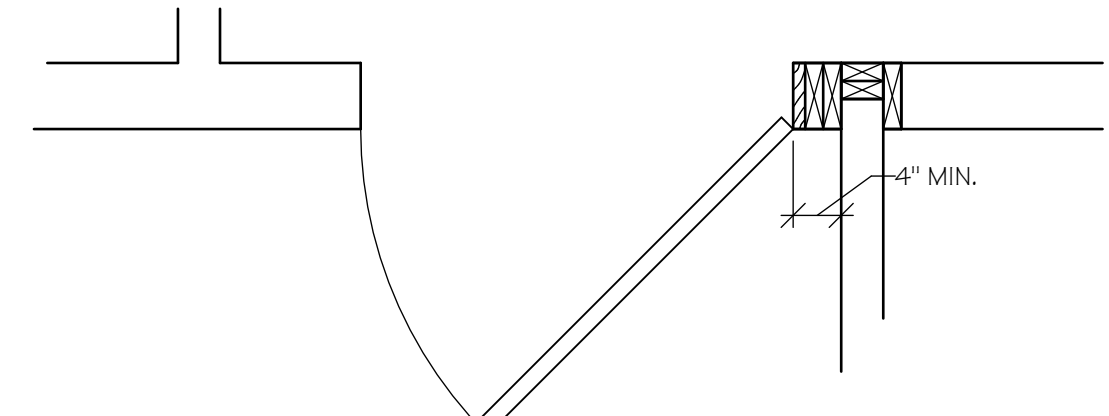
3 NON-LOAD BEARING WALL NOTCHING & BORING HOLE DETAILS
SCALE: 1/2" = 1'-0"



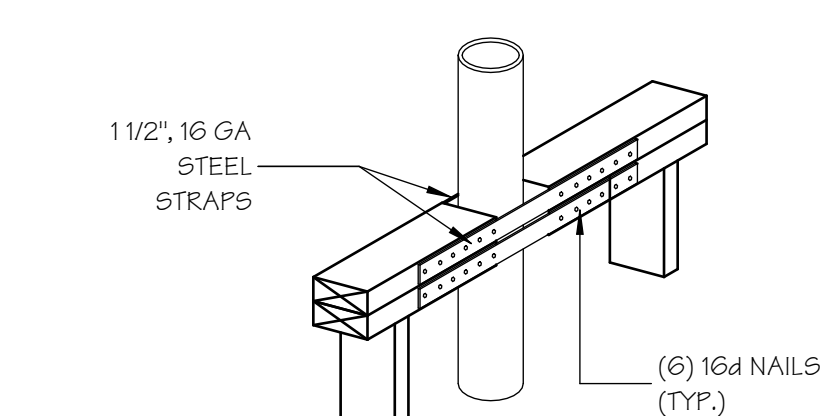
6 WINDOW FLASHING
SCALE: 1/2" = 1'-0"



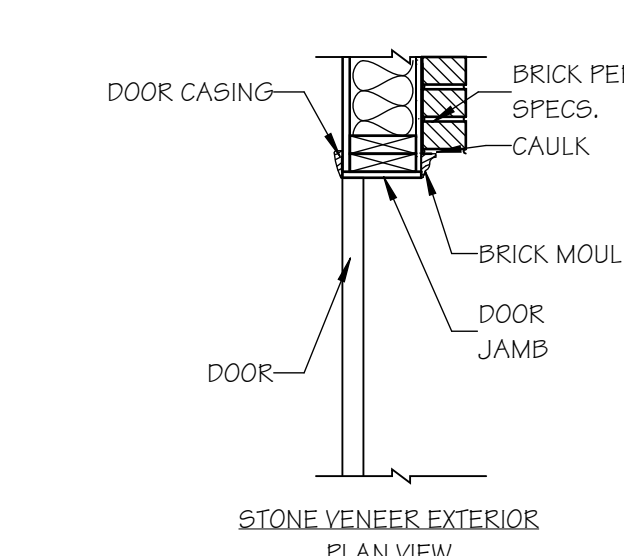
7 EXT. WALL/ADVANCE FRAMING DETAIL
SCALE: 1/2" = 1'-0"



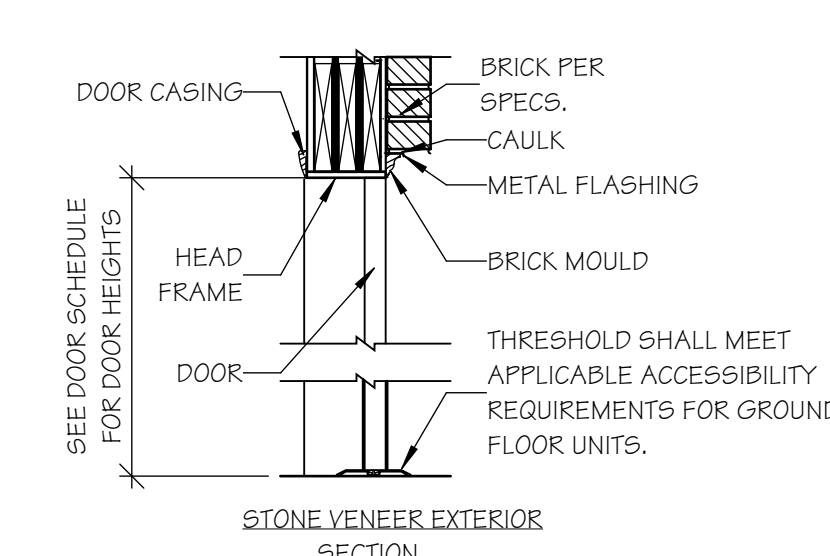
8 TYP. DOOR FRAMING DETAIL
SCALE: 3/4" = 1'-0"



9 PLATE CUT DETAIL
SCALE: 1" = 1'-0"



12 WALL SECTIONS AND DETAILS AT DOORS
SCALE: 3/4" = 1'-0"



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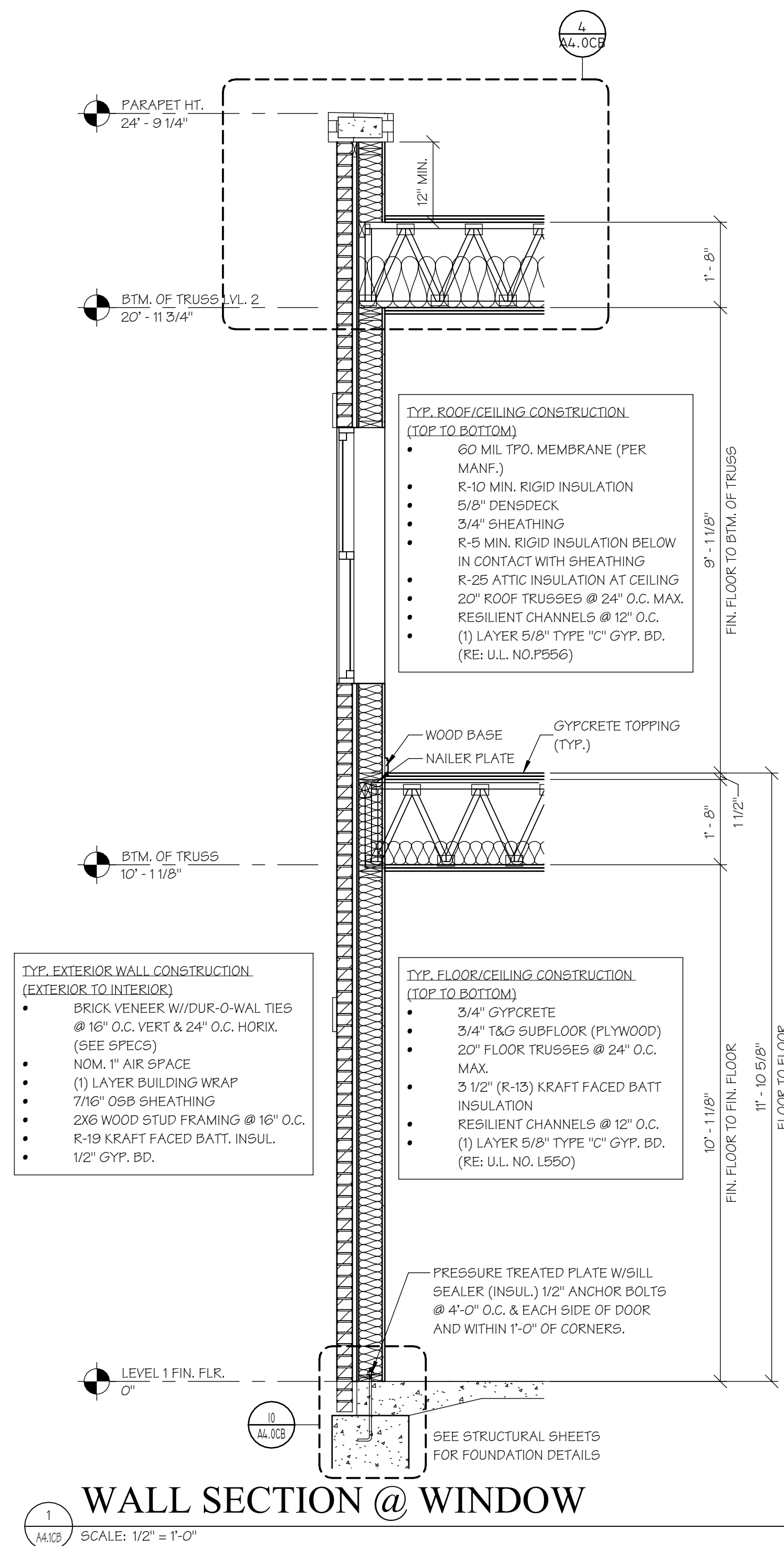
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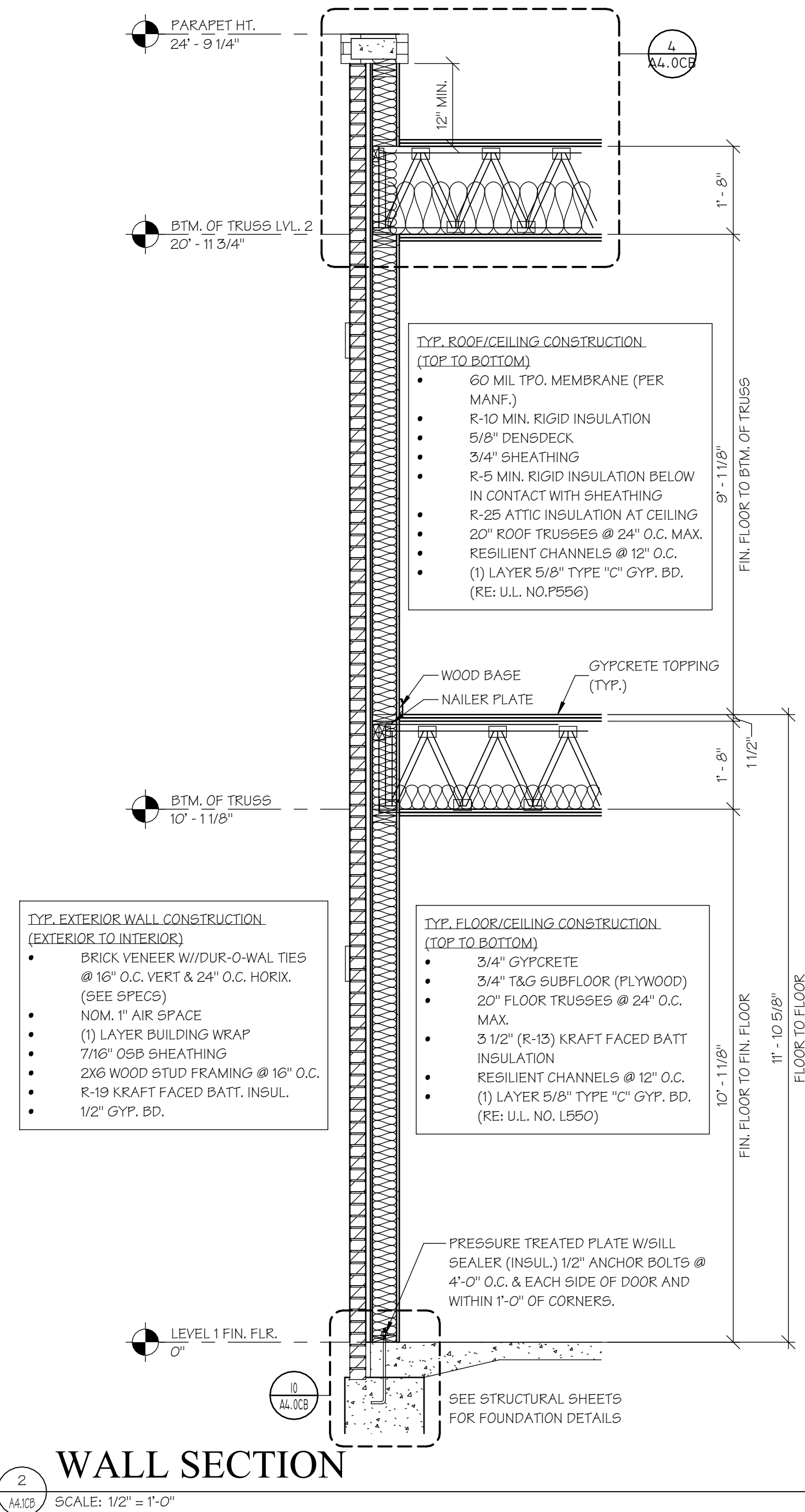
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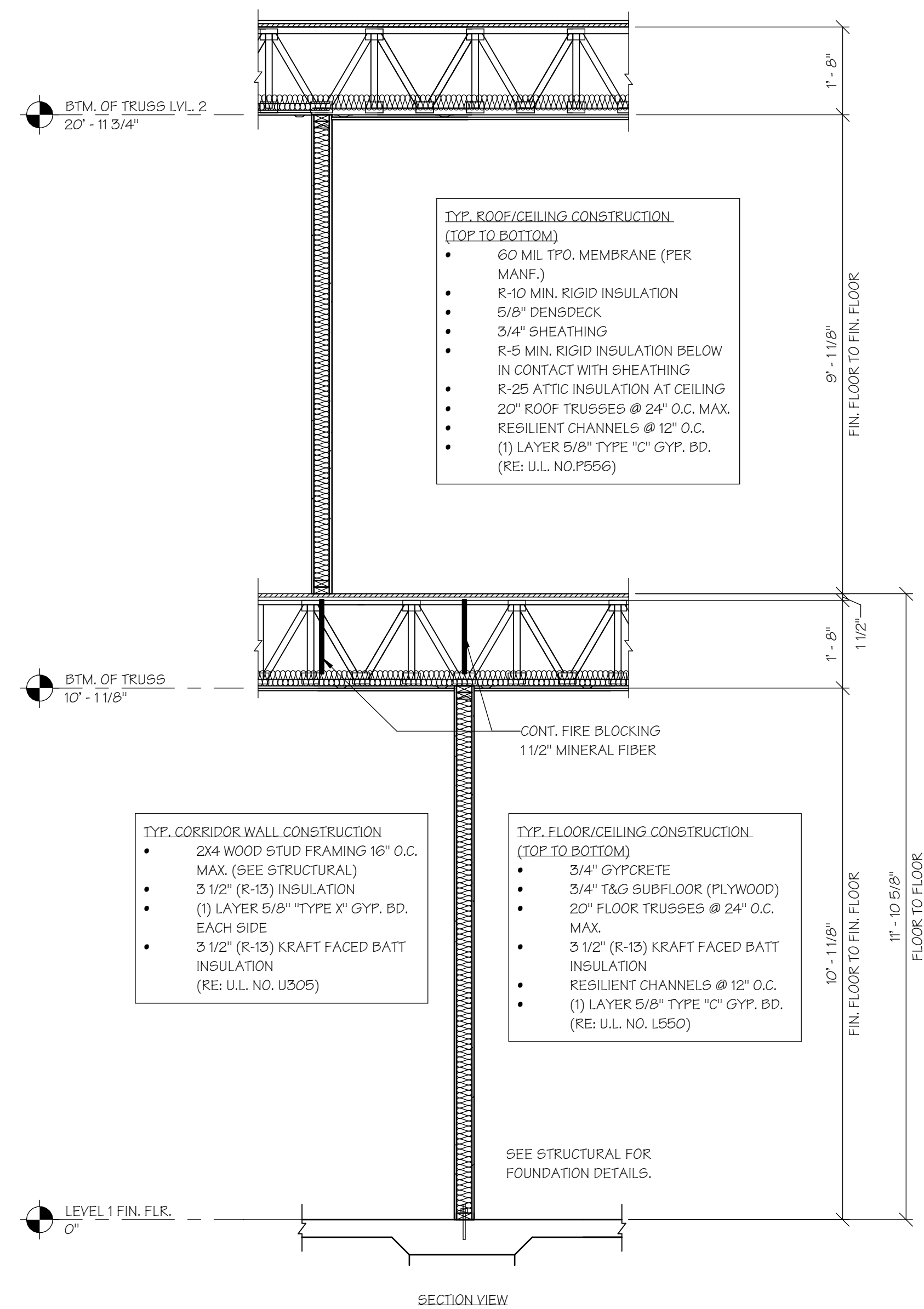
WALL SECTION @ WINDOW

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



WALL SECTION

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

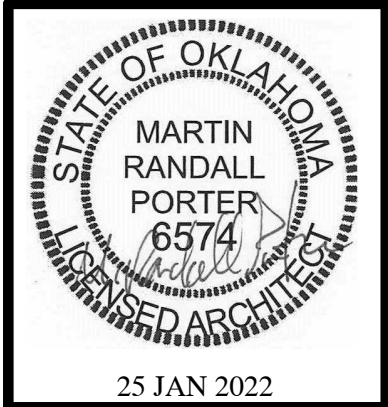


INTERIOR WALL SECTION @ CORRIDOR

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

JURISDICTION APPROVAL

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STAIRWELL NOTES

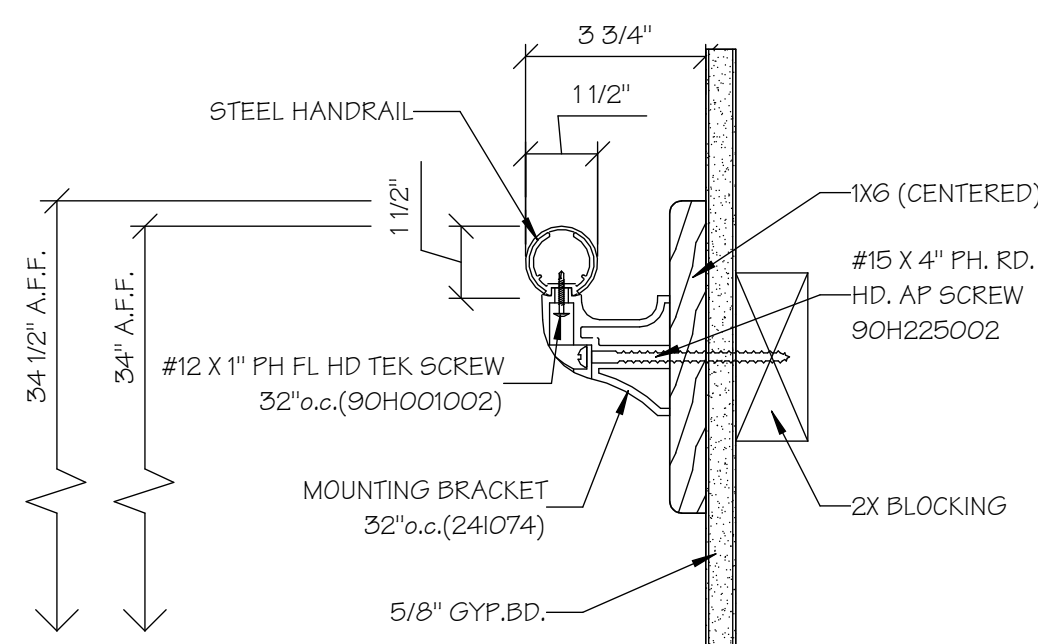
- INTERIOR WALL AND CEILING FINISH MATERIAL IN EACH STAIR ENCLOSURE TO MEET CLASS C FLAME SPREAD AND SMOKE DEVELOPED INDEXES.
- FLOOR FINISHES ARE REQUIRED TO MEET CLASS II REQUIREMENTS AT STAIR ENCLOSURES AND CORRIDORS

NOTES

- DIMENSIONS ARE FROM FACE OF GYP., NOSE OF TREAD AND END OF HANDRAIL U.N.O.
- LEFT SIDE STAIRS ARE REVERSED FROM RIGHT SIDE STAIRS.
- SEE BUILDING PLANS FOR ORIENTATION OF STAIRS.
- 1 1/2" DIAMETER STEEL HANDRAILS ARE MOUNTED SO THAT THE TOP OF HANDRAIL IS 34" A.F.F. ON BOTH SIDES OF STAIR FLIGHTS.
- HANDRAILS ON BOTH SIDES AT BOTTOM OF STAIR FLIGHTS SHALL EXTEND 23" BEYOND THE NOSE OF THE BOTTOM TREAD.
- HANDRAILS ON BOTH SIDES AT TOP OF STAIR FLIGHTS SHALL EXTEND 12" BEYOND THE NOSE AT THE TOP LANDING.

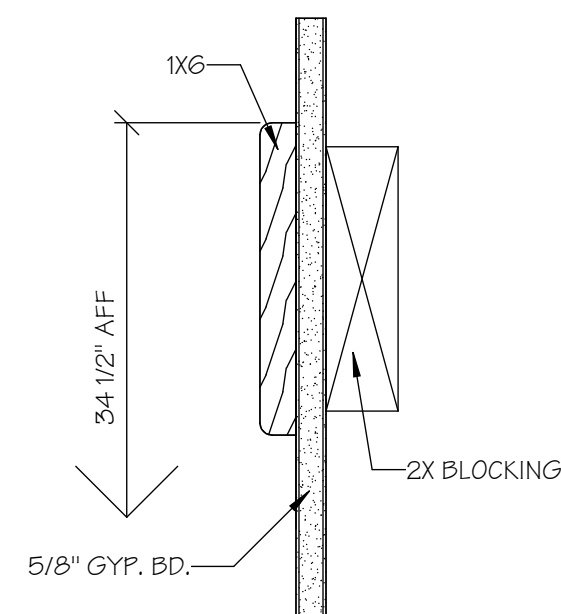
TYP. STAIR WALL CONSTRUCTION

- CONTINUOUS FROM FOUNDATION TO ROOF/CEILING WITH NO FLOOR/CEILING ASSEMBLIES BETWEEN.
- 2X6 WOOD STUD FRAMING 16" O.C. MAX. (SEE STRUCTURAL)
- R-13 INSULATION
- (1) LAYER 5/8" TYPE "X" GYP. BD. EACH SIDE (REF. U.L. DESIGN U305)



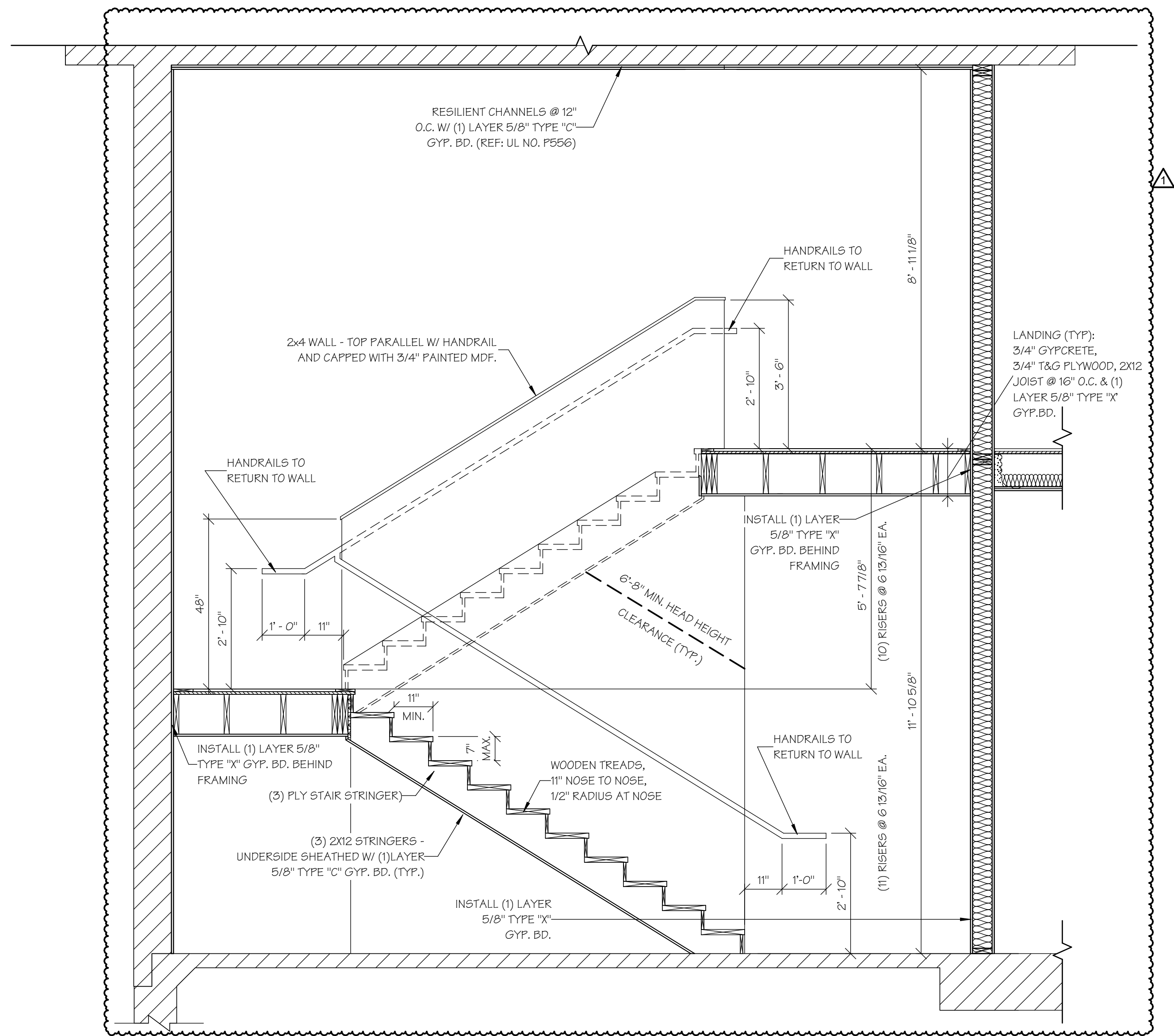
HANDRAIL

SCALE: 3" = 1'-0"



WOOD CHAIR RAIL

SCALE: 3" = 1'-0"



STAIR SECTION

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

JURISDICTION APPROVAL

ADDENDUM #1

Design No. L550

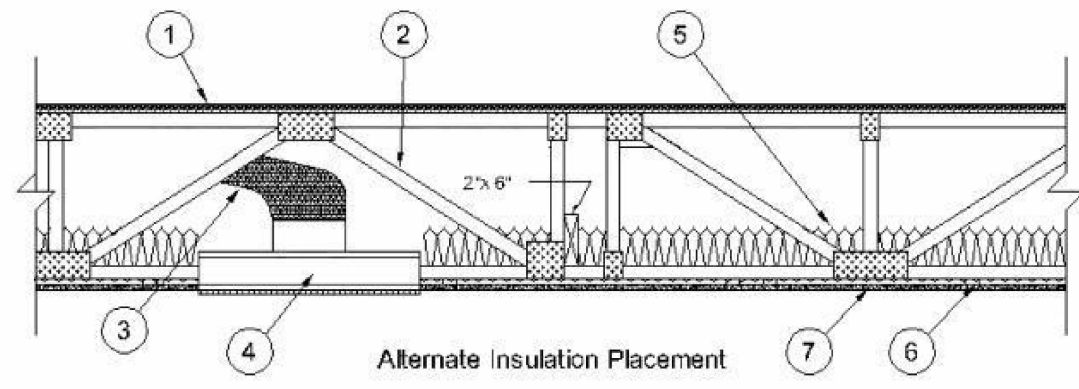
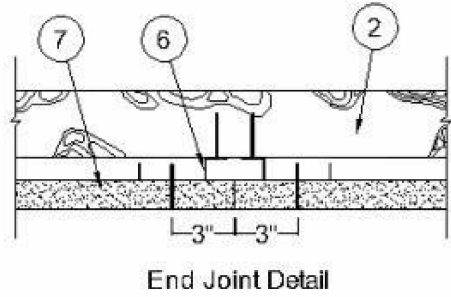
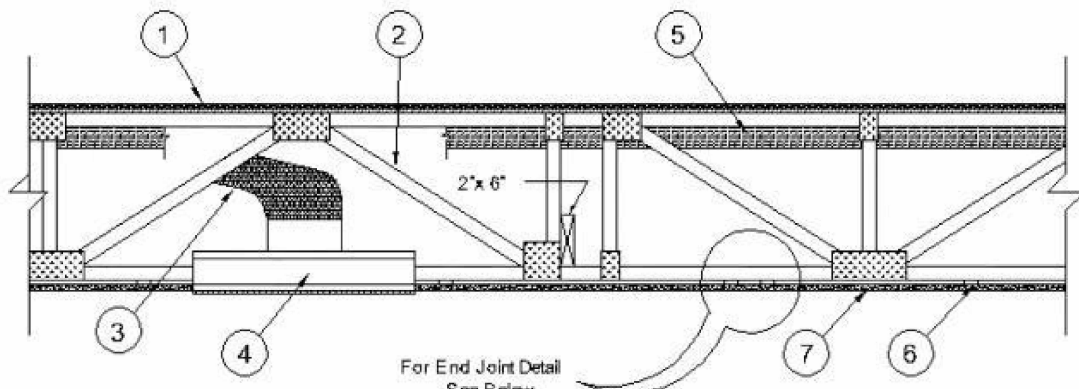
August 14, 2020

Unrestrained Assembly Rating — 1 Hr.

Finish Rating — 23 Min (See Items 5 or 5A and 7), 20 Min. (See Items 6E and 7A)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide **BXUV** or **BXUV7**

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Flooring System** — The flooring system shall consist of one of the following:

System No. 1

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Min 1 by 4 in. T & G lumber fastened diagonally to trusses, or min 15/32 in. plywood, min grade "Underlayment" or "Sturd-I-Floor" with T & G edges and conforming to PS1-83 specifications, or nonveneer APA rated Sturd-I-Floor, T & G panels per APA specifications PRP-108. Face grain of plywood to be perpendicular to trusses with joints staggered.

System No. 2

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial asphalt saturated felt.

Finish Flooring — **Floor Topping Mixture** — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding minimum thickness of floor topping over floor mat.

GRASSWORX L L C — SC Types

System No. 3

Structural Cement-Fiber Units* — Nom 3/4 in. thick, with long edges tongue and grooved. Long dimension of panels to be perpendicular to wood trusses with end joints staggered a min of 2 ft and centered over the trusses. Panels secured to wood trusses with 1-5/8 in. long, No. 8, self-countersinking wood screw spaced a max of 12 in. OC

in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the end edges of the panel.

UNITED STATES GYPSUM CO — Type STRUCTO-CRETE or USGSP

Finish Flooring — **Floor Topping Mixture** — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

System No. 4

Structural Cement-Fiber Units* — Nom 3/4 in. thick, with long edges tongue and grooved. Long dimension of panels to be perpendicular to wood trusses with end joints staggered a min of 2 ft and centered over the trusses. Panels secured to wood trusses with 1-5/8 in. long, No. 8, self-countersinking wood screw spaced a max of 12 in. OC in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the end edges of the panel.

UNITED STATES GYPSUM CO — Types STRUCTO-CRETE or USGSP

System No. 5

Subflooring — Min 23/32 in. thick plywood with T & G edges along the 8 ft sides and exterior glue or nonveneer APA Sturd-I-Floor T & G panels per APA specifications PRP 108. Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered 4 ft. Plywood or panels secured to trusses with construction adhesive and No. 6d ring shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm).

HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm).

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250, Quiet Qurl 55/025

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm).

HACKER INDUSTRIES INC — FIRM-FILL SCM 400, Quiet Qurl 60/040

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm).

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 750, Quiet Qurl 65/075

Metal Lath — (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Finish Flooring — **Floor Topping Mixture** — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant

System No. 6

Deleted.

System No. 7

Subflooring — Min 23/32 in. thick plywood with T & G edges along the 8 ft sides and exterior glue or nonveneer APA Sturd-I-Floor T & G panels per APA specifications PRP 108. Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered 4 ft. Plywood or panels secured to trusses with construction adhesive and No. 6d ring shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Finish Floor — **Mineral and Fiber Board** — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.

HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 8

Subflooring — Min 23/32 in. thick T & G wood structural panels installed perpendicular to trusses with joints staggered 4 ft. Plywood or nonveneer APA rated panels secured to trusses with construction adhesive and No. 6d ring shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — **Floor Topping Mixture** — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

ELASTIZELL CORP OF AMERICA — Type FF

System No. 9

Subflooring — Min 23/32 in. thick T & G wood structural panels installed perpendicular to trusses with joints staggered 4 ft. Plywood or nonveneer APA rated panels secured to trusses with construction adhesive and No. 6d ring shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — **Floor Topping Mixture** — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.2 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5.5 gal of water.

AERIX INDUSTRIES — Floor-Topping Mixture

System No. 10

Subflooring — Min 23/32 in. thick T & G wood structural panels installed perpendicular to trusses with joints staggered 4 ft. Plywood or nonveneer APA rated panels secured to trusses with construction adhesive and No. 6d ring shank nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Finish Flooring — **Floor Topping Mixture** — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Mixture shall consist of 5 to 8 gal of water to 80 lbs of floor topping mixture to 2.1 cu ft of sand.

ULTRA QUIET FLOORS — Types UQF-A, UQF-Super Blend, UQF-Plus 200

System No. 11

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — **Floor Topping Mixture** — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ACG MATERIALS — AccuCrete types NexGen, Green, Prime, B, M, and PrePour, AccuRadiant, and AccuLevel types G40, G50 and SD30

Floor Mat Material* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in.

ACG MATERIALS — AccuQuiet types P80, C40, D13, D-18, D25, DX38, EM.125, EM.125S, EM.250, EM.250S, EM.375, EM.375S, EM.750, and EM.750S.

System No. 12

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — **Floor Topping Mixture** — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

DEPENDABLE LLC — GSL M3.4, GSL K2.6, GSL-CSD and GSL RH

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.

KEENE BUILDING PRODUCTS CO INC — Type Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 13

Subflooring — — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — **Floor Topping Mixture** — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

FORMULATED MATERIALS LLC — Types FR-25, FR-30, and SiteMix

Floor Mat Material* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in.

FORMULATED MATERIALS LLC — Types M1, M2, M3, Elite, Duo, R1, and R2

2. **Trusses** — Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Min truss depth is 12 in. Truss members secured together with min 0.0356 in. thick galvanized steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tool has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approx. 7/8 in. centers with four rows of teeth per inch of plate width.

3. **Air Duct*** — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

4. **Damper*** — For use with min 18 in. deep trusses. Max nom 20 in. long by 18 in. wide by 2-1/8 in. high, fabricated from galvanized steel. Plenum box max size nom 21 in. long by 18 in. wide by 16 in. high fabricated from either galvanized steel or Classified Air Duct Materials bearing the UL Classification Marking for Class 0 or Class 1 rigid air duct material. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 180 sq in. per 100 sq ft of ceiling area.

NAIROL INDUSTRIES INC — Types 0755, 0755A, 0756, 0756D , 0757D, 0757FP, 0757DFFP, 0758, 0759, 0760, 0761, 0762, 0763, CRD5, CRD5D, CRD6, CRD6D, CRD6FP, CRD6DFP

SAFE AIR DOWCO — Types 0455, 0455A, 0456, 0456D, 0457, 0457D, 0457-DB, 0457-CB, 0463-FB, 0457-EB, 0463-GB, 0463

5. **Batts and Blankets*** — (Optional) — Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. When no insulation is installed in the concealed space the resilient channels are spaced 24 in. OC. When the resilient channels (Item 6) are spaced 16 in. OC, the insulation shall be a max of 3-1/2 in. thick, and shall be secured against the subflooring with staples at 12 in. OC or held suspended in the concealed space with 0.090 in. diam galv steel wires attached to the wood trusses at 12 in. OC. When the resilient channels are spaced a max of 12 in. OC or when the Steel Framing Members (Item 6A) are used, there is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the resilient channels (or Steel Framing Members) and gypsum panel membrane. The finished rating has only been determined when the insulation is secured to the subflooring.

5A. **Loose Fill Material*** — (Optional) — As an alternate to Item 5, when the resilient channels (Item 6) are spaced a maximum of 12 in. OC, or when the Steel Framing Members (Item 6A) are used - Any loose fill material bearing the UL Classification Marking for Surface Burning Characteristics. There is no limit in the overall thickness of insulation. The finished rating when loose fill material is used has not been determined.

5B. **Cavity Insulation - Batts and Blankets* or Loose Fill Material* - (Not Shown)** — (As described above in Items 5 and 5A) — For Use with Item 7A — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 6E)/gypsum board (Item 7A) ceiling membrane.

5C. **Foamed Plastic*** — (As alternate to Item 5 and 5A, Not Shown) — Spray foam insulation applied directly to the underside of the plywood subflooring. Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft³ or 2.0 lb/ft³ density, depending on the product installed. Spray foam insulation is limited to use with

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OKLAHOMA CITY, OKLAHOMA COUNTY,
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