

SQUARE FOOTAGE TABLE	
FINISHED SQUARE FOOTAGE	
MAIN LEVEL	1428
UPPER LEVEL	1559
STAIRS TO LOWER LEVEL	39
TOTAL	3026
UNFINISHED SQUARE FOOTAGE	
GARAGE	778
BASEMENT - UNFINISHED	1292
COVERED PATIO	168

- SHEET INDEX**
- A1. FRONT AND REAR ELEVATION
  - A2. LEFT AND RIGHT ELEVATION
  - A3. FOUNDATION FLOOR PLAN
  - A4. MAIN LEVEL PLAN
  - A5. UPPER LEVEL PLAN
  - A6. ROOF PLAN

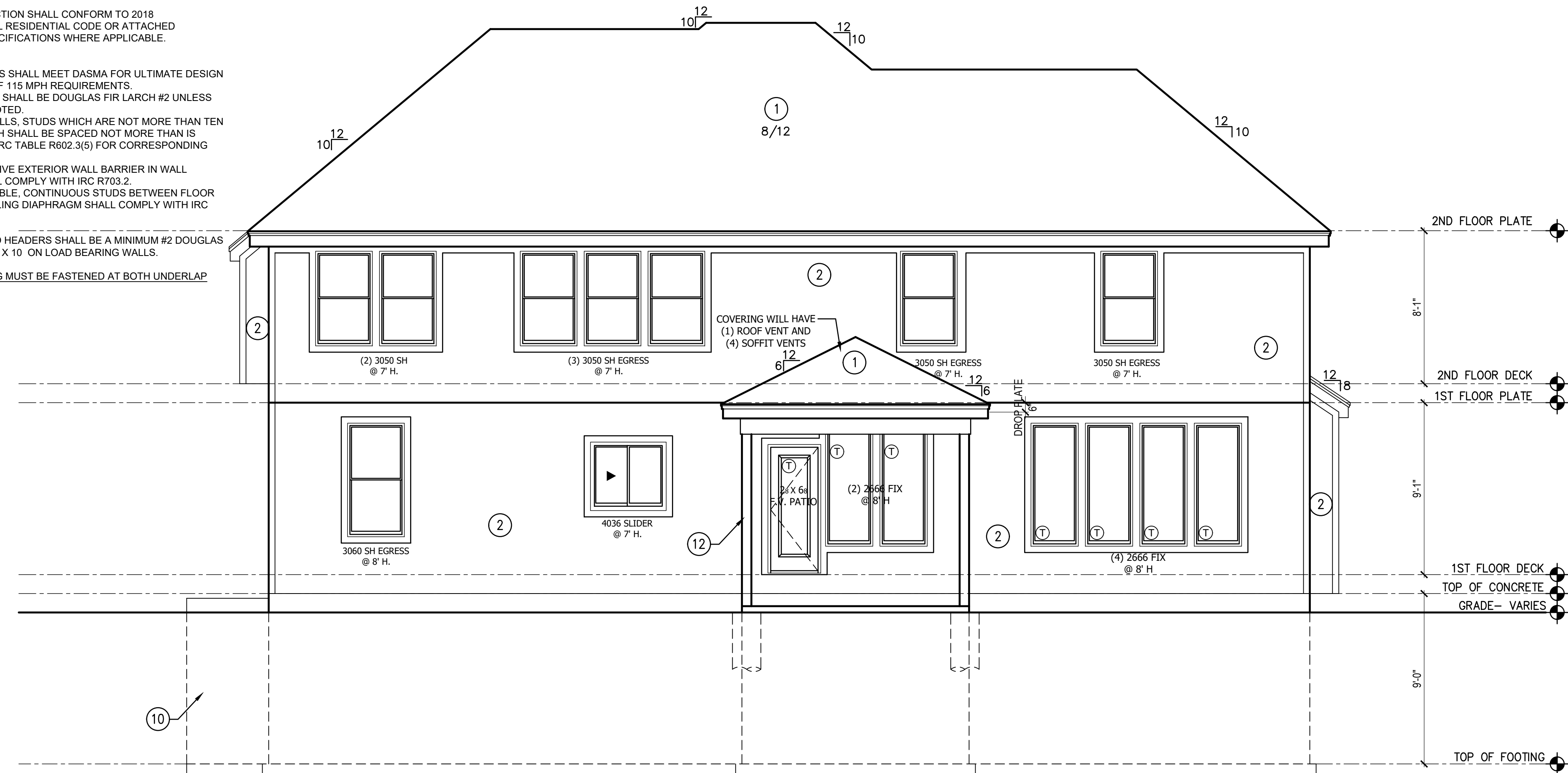
FRONT ELEVATION ②  
SCALE: 1/4" = 1'-0"

**NOTE:**  
ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

**ELEVATIONS:**  
GARAGE DOORS SHALL MEET DASMA FOR ULTIMATE DESIGN WIND SPEED OF 115 MPH REQUIREMENTS.  
WALL FRAMING SHALL BE DOUGLAS FIR LARCH #2 UNLESS OTHERWISE NOTED.  
IN BEARING WALLS, STUDS WHICH ARE NOT MORE THAN TEN FEET IN LENGTH SHALL BE SPACED NOT MORE THAN IS SPECIFIED BY IRC TABLE R602.3(5) FOR CORRESPONDING STUD SIZE.  
WATER-RESISTIVE EXTERIOR WALL BARRIER IN WALL SECTION SHALL COMPLY WITH IRC R703.2.  
WHEN APPLICABLE, CONTINUOUS STUDS BETWEEN FLOOR AND ROOF/CEILING DIAPHRAGM SHALL COMPLY WITH IRC R602.3.

ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10" ON LOAD BEARING WALLS.

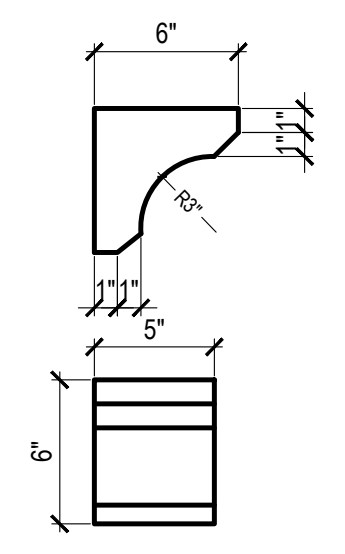
SHIPLAP SIDING MUST BE FASTENED AT BOTH UNDERLAP AND OVERLAP.



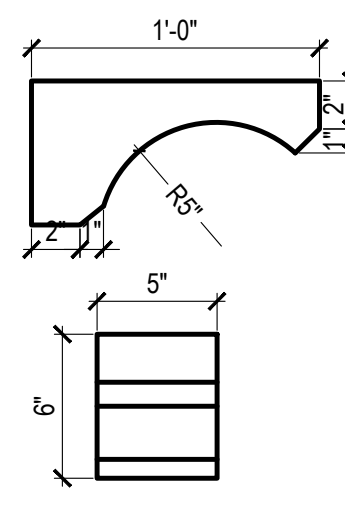
REAR ELEVATION ①  
SCALE: 1/4" = 1'-0"

- ELEVATION NOTES**
1. MINIMUM ROOFING COMPOSITION- 30 YR. COMPOSITE SHINGLES ON 15# FELT ON 3/4" OSB SHEATHING OR AS REQUIRED BY CODE.
  2. SIDES AND REAR TO BE LP SMART PANEL SIDING WITH 3/4x4 L.P. SMART TRIM AROUND DOORS, WINDOWS, AND CORNERS UNLESS NOTED OTHERWISE. BOTTOM OF SIDING SHALL BE A MINIMUM OF 6" ABOVE GRADE.
  3. FRONT FACADE TO BE STUCCO, SHEATHED WITH 1/2" THICK OSB RATED 24/0 SHEATHING. EXTEND STUCCO TO BE WITHIN 8" OF FINISHED GRADE. 5/4X6 L.P. SMART TRIM AROUND WINDOWS AND DOORS UNLESS NOTED OTHERWISE.
  4. CEDAR SHUTTERS-ALL SHUTTERS TO BE 18" WIDE USING 3-2X6 BOARDS. L.P. SMART TRIM TO BE INSTALLED AROUND WINDOW PRIOR TO SHUTTER INSTALLATION.
  5. MANUFACTURED STONE VENEER
  6. CAST STONE CAP
  7. CEDAR BRACKET, RE: 3/A1. INSTALL CEDAR BRACKET PRIOR TO FASCIA BOARD INSTALLATION.
  8. 5/4X10" L.P. SMART TRIM + 1X4 L.P. SMART TRIM + 1X2 L.P. SMART TRIM. 1 1/2" ARCH ON GARAGE DOOR TRIM PER FRAMING SPECIFICATIONS.
  9. DECORATIVE GABLE LOUVER
  10. CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVIDE SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL TO BE 3' BELOW TOP OF FOUNDATION.
  11. 2X4 STUD WALL WITH FRONT FACADE IN STONE. ALLOW MIN. 2" ON FRONT FOR STONE TO FIT WITHIN BOUNDARY OF STOOP. SEE PLANS FOR SIZE.
  12. 6X6 CEDAR POST
  13. BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE. SEE FRAMING SPECIFICATIONS FOR DETAILS.
  14. DECORATIVE SOFFIT BOARD CUT TO SIZE (10" RADIUS), FLUSH WITH FASCIA.

**GENERAL NOTES:**  
DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.  
WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER INDUSTRY STANDARDS. EX: 3050 SH = 3'-0" X 5'-0" SINGLE HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.



BRACKETS BELOW GABLE LOUVER



BRACKETS AT CANTILEVER ACCENT BRACKETS ③  
SCALE: 1/2" = 1'-0"



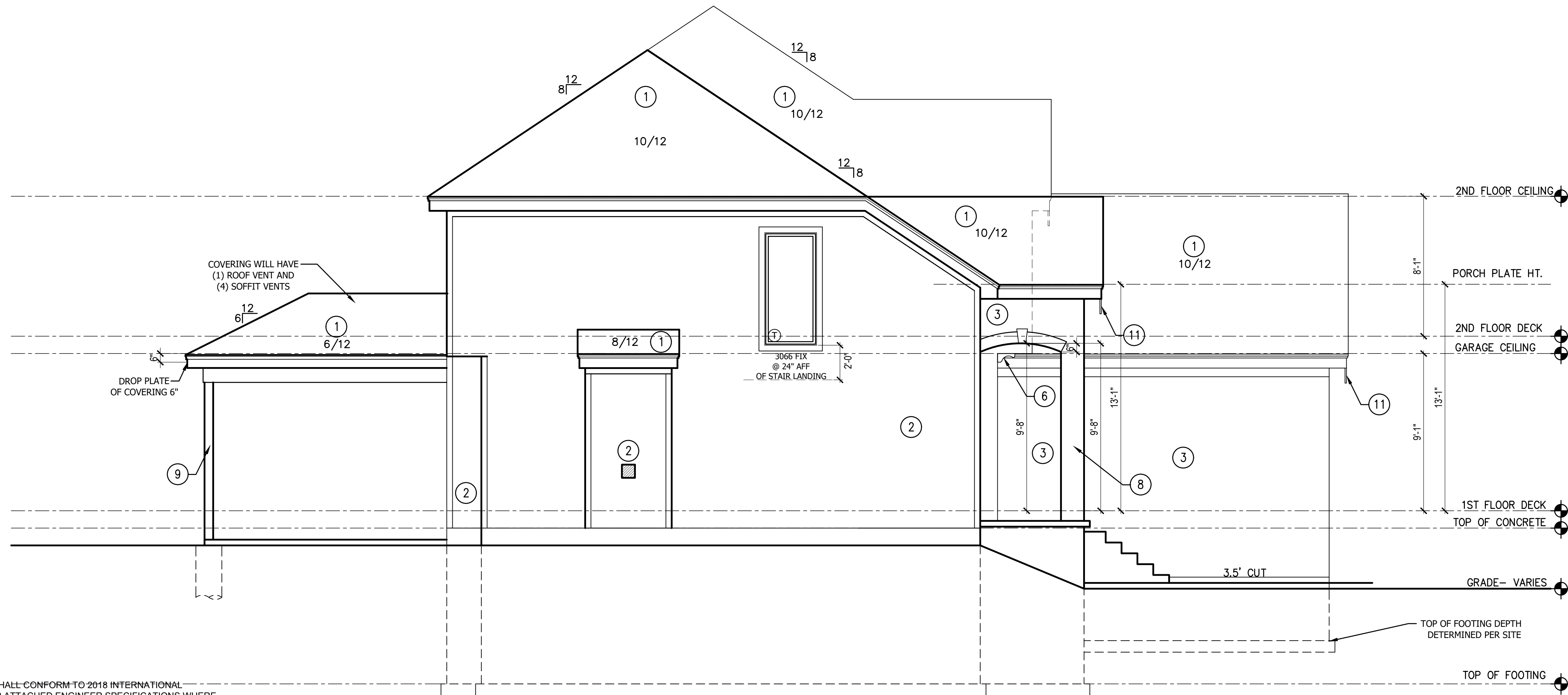
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**ISSUE DATE:**  
05.07.20

**SHEET NUMBER:**  
**A1**



LEFT ELEVATION ②  
SCALE: 1/4" = 1'-0"

NOTE:

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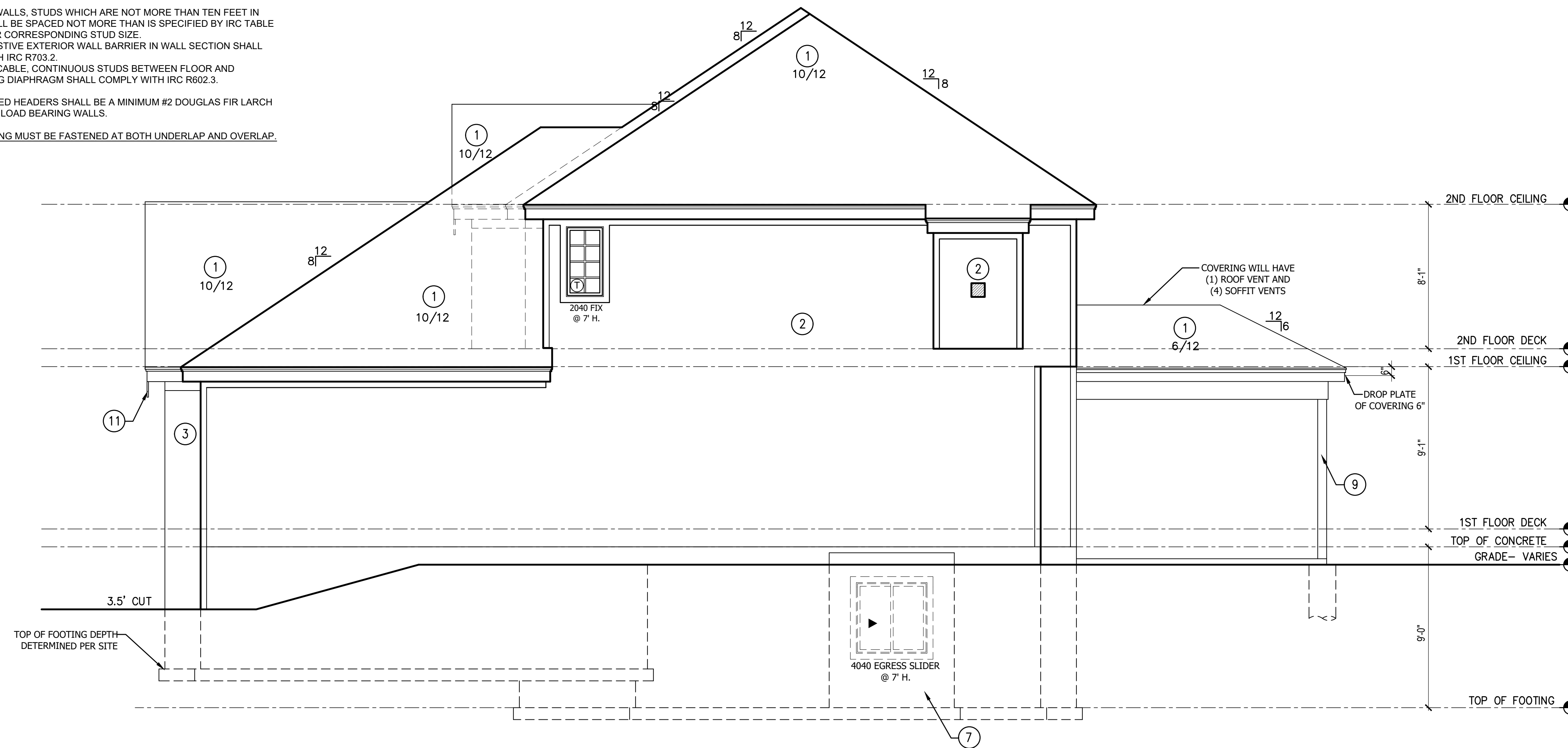
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RIGHT ELEVATION ①  
SCALE: 1/4" = 1'-0"

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3. FRONT FACADE TO BE STUCCO, SHEATHED WITH 1/2" THICK OSB RATED 24/0 SHEATHING. EXTEND STUCCO TO BE WITHIN 8" OF FINISHED GRADE. 5/4x6 L.P. SMART TRIM AROUND WINDOWS AND DOORS UNLESS NOTED OTHERWISE.
4. NOT USED
5. NOT USED
6. CEDAR BRACKET, RE: 3/A1. INSTALL CEDAR BRACKET PRIOR TO FASCIA BOARD INSTALLATION.
7. CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVIDE SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW TOP OF FOUNDATION.
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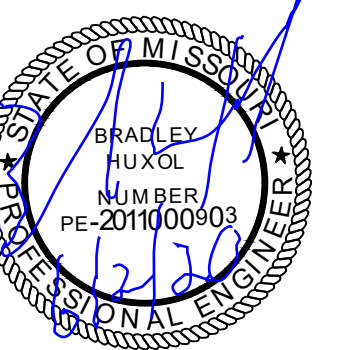
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A2

**\*\*ALL INTERIOR NON-LOAD BEARING, NON-BRACED, NON-CABINET WALLS ARE ALLOWED AT 24" OC.**

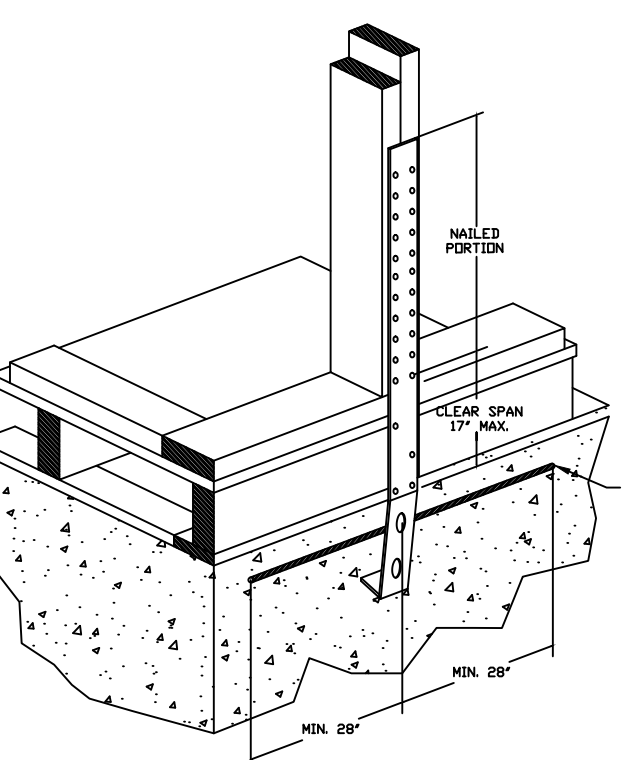
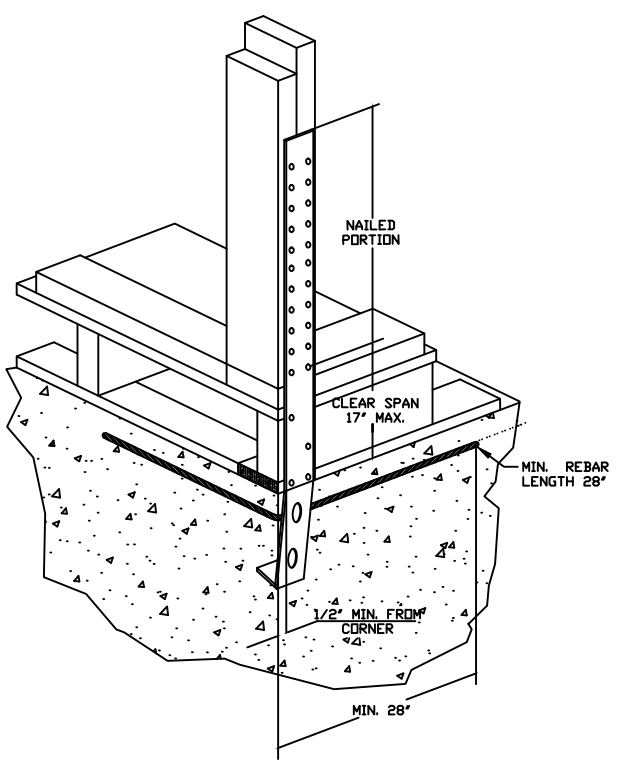
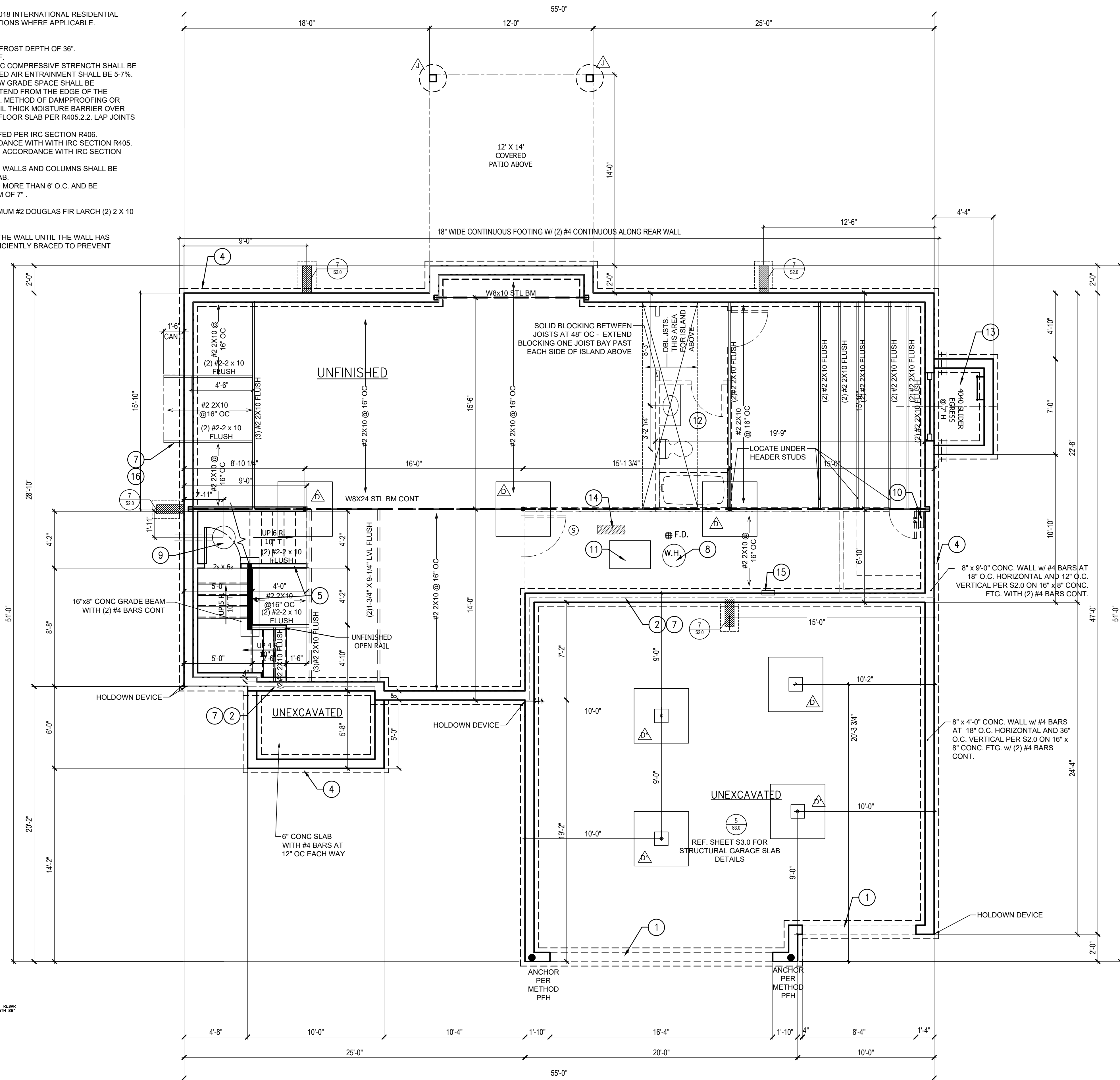
NOTE:

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**FOUNDATION NOTES:**  
 ALL FOOTINGS MEET OR EXCEED MINIMUM FROST DEPTH OF 36".  
 SOIL BEARING CAPACITY SHALL BE 2000 PSF.  
 COMPRESSIVE STRENGTH OF CONCRETE F' COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE R402.2. REQUIRED AIR ENTRAINMENT SHALL BE 5-7%.  
 ALL FOUNDATION WALLS ENCLOSING BELOW GRADE SPACE SHALL BE DAMPPROOFED. DAMPPROOFING SHALL EXTEND FROM THE EDGE OF THE FOOTING TO THE FINISHED GRADE (R-406.1). METHOD OF DAMPPROOFING OR WATERPROOFING SHALL BE A MINIMUM 6-MIL THICK MOISTURE BARRIER OVER POROUS GRAVEL BASE UNDER BASEMENT FLOOR SLAB PER R405.2.2. LAP JOINTS SHALL BE A MINIMUM 6".  
 FOUNDATION WALLS SHALL BE DAMPPROOFED PER IRC SECTION R406.  
 FOUNDATION DRAINAGE WILL BE IN ACCORDANCE WITH WITH IRC SECTION R405.  
 BASEMENT EGRESS OPENINGS SHALL BE IN ACCORDANCE WITH IRC SECTION R310.1  
 ALL INTERIOR FOOTINGS OF LOAD BEARING WALLS AND COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB.  
 ALL ANCHOR BOLTS SHALL NOT BE SPACED MORE THAN 6' O.C. AND BE EMBEDDED INTO THE CONCRETE A MINIMUM OF 7".

ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

BACKFILL SHALL NOT BE PLACED AGAINST THE WALL UNTIL THE WALL HAS SUFFICIENT STRENGTH OR HAS BEEN SUFFICIENTLY BRACED TO PREVENT DAMAGE BY BACKFILL.



**FOUNDATION PLAN NOTES**

- RECESS TOP OF FOUNDATION WALL
- HOLD SILL PLATE BACK 4"
- NOT USED
- CONTINUOUS CONCRETE FOOTING
- 2X4 STUD WALL WITH TREATED SILL PLATE
- NOT USED
- LINE OF FLOOR ABOVE
- THERMAL EXPANSION CONTROL DEVICE FOR WATER HEATER
- SUMP PIT AND PUMP. PROVIDE ELECTRICAL GFCI PROTECTION. PROVIDE SLEEVE THROUGH FOOTING.
- 200 AMP ELECTRICAL PANEL- LOCATION TO BE DETERMINED ON SITE.
- DIRECT FURNACE. FUEL BURNING APPLIANCES SHALL BE DIRECT VENTED TO EXTERIOR FOR COMBUSTION AIR.
- DRAIN LINE ONLY FOR FUTURE USE. LOCATION TO BE MARKED WITH REBAR AND CUT FLUSH TO FLOOR FINISH.
- CONCRETE WINDOW WELL FOR EGRESS WITH LADDER. PROVIDE SLEEVE THROUGH WALL FOR FOUNDATION DRAIN. TOP OF WINDOW WELL TO BE 3" BELOW TOP OF FOUNDATION.
- HVAC CHASE ABOVE
- 'UFER' GROUND- VERIFY LOCATION WITH PROJECT MANAGER.
- INSULATE CANTILEVER AS REQUIRED PRIOR TO BLOCKING.
- HOLD TOP OF FOUNDATION WALL DOWN TO ALLOW EXTERIOR FINISH TO MEET DRIVEWAY.

**GENERAL NOTES:**

BACK WATER VALVES REQUIRED ON ALL BASMENT PLUMBING FIXTURES. PROVIDE MEANS OF CONTROLLING PRESSURE CAUSED BY THERMAL EXPANSION.

SUMP PIT SHALL BE EQUIPPED WITH A PUMP AND RECEPTACLE. IN UNFINISHED PORTIONS OF BASEMENT, RECEPTACLES SHALL HAVE GFI PROTECTION.

ALL SILLS & SLEEPERS SUPPORTED ON CONCRETE OR MASONRY SHALL B OF DECAY-RESISTANT MATERIALS.

DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.

NON-BEARING WALLS TO BE BUILT WITH 1" GAP BETWEEN TOP PLATE AND FLOOR JOISTS TO PREVENT HEAVING.

SMOKE AND CARBON MONOXIDE DETECTORS SHOWN ON PLANS ARE TO BE CONSIDERED RECOMMENDATIONS ONLY. FINAL PLACEMENT IS TO BE DETERMINED BY MUNICIPAL REQUIREMENTS.

WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER INDUSTRY STANDARDS. EX: 3050 SH = 3'-0" X 5'-0" SINGLE HUNG, 3066 FIX = 3'-0" X 6'-6" FIXED.

ISOLATED FOOTINGS AND COLUMN PADS				
SYM	PIER PAD SIZE	DEPTH	MINIMUM REINFORCEMENT GRADE 40 KSI STEEL	SCHEDULE 40 STEEL COLUMN, MIN FY = 36KSI
A	30"x30"	1'-0"	(5) #4 BAR E.W.	3" DIAMETER
B	36"x36"	1'-0"	(6) #4 BAR E.W.	3" DIAMETER
C	42"x42"	1'-2"	(7) #4 BAR E.W.	3" DIAMETER
D	48"x48"	1'-4"	(8) #4 BAR E.W.	3" DIAMETER
DA	48"x48"	1'-4"	(8) #4 BAR E.W.	N/A
E	54"x54"	1'-4"	(9) #4 BAR E.W.	3.5" DIAMETER
F	60"x60"	1'-6"	(10) #4 BAR E.W.	3.5" DIAMETER

ISOLATED FOOTINGS AND COLUMN PADS			
SYM	PIER DIAMETER	DEPTH	MINIMUM REINFORCEMENT GRADE 40 KSI STEEL
A	12"	3'-0"	(4) VERTICAL #4
H	16"	3'-0"	(4) VERTICAL #4
I	18"	3'-0"	(4) VERTICAL #4
K	24"	3'-0"	(4) VERTICAL #4
L	28"	3'-0"	(4) VERTICAL #4

COLUMN AND PAD SIZES ARE FOR A MAXIMUM COLUMN HEIGHT OF 10'. COLUMNS GREATER THAN 10' REQUIRE A SEPARATE ENGINEERED DESIGN. FOOTINGS A-F SPACING OF 6" O.C. WITH 3" CLEAR COVER.

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**A3**

**\*\*ALL INTERIOR NON-LOAD BEARING, NON-BRACED, NON-CABINET WALLS ARE ALLOWED AT 24" OC.**  
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ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

DETAILS AND NOTES:  
BASEMENT EGRESS WINDOWS ARE TO COMPLY WITH IRC R310.2.  
WINDOW FALL PROTECTION REQUIREMENTS TO COMPLY WITH SECTION R612.2.  
STAIRS SHALL COMPLY WITH IRC R311.7. THE MAXIMUM RISER HEIGHT OF STAIRWAYS SHALL NOT EXCEED 7-3/4" AND THE TREADS SHALL PROVIDE A MINIMUM TREAD DEPTH OF 10" (IRC 2018 R311.7.5.1).  
SELF CLOSING DEVICES ARE REQUIRED FOR GARAGE TO DWELLING SEPARATION DOORS.  
STEEL COLUMNS WILL BE A MINIMUM OF SCHEDULE 40.

ENERGY REQUIREMENTS SHALL CONFORM TO THE IRC CHAPTER 11.  
SECURITY SHALL CONFORM TO IRC R326/KCIBC.  
AN ACCESSIBLE CONNECTION POINT WILL BE PROVIDED TO A 20 FOOT CONCRETE ENCASED ELECTRODE (FOOTING REBAR) FOR THE ELECTRICAL SERVICE GROUNDING ELECTRODE CONDUCTOR (UFER GROUND).  
CARBON MONOXIDE DETECTORS WILL BE PROVIDED IN ACCORDANCE WITH IRC SECTION R315.  
THE BUILDING THERMAL ENVELOPE IS REQUIRED TO BE SEALED (2018 IRC SECTION N102.4.1 AND TABLE N102.4.1.1).  
DUCTS, AIR HANDLERS, FILTER BOXES AND BUILDING CAVITIES USED AS DUCTS SHALL BE SEALED (2018 IRC SECTION N103.2.2).

FLOOR PLANS:  
LEDGERS/FLOOR AND CEILING SHALL BE IN ACCORDANCE WITH IRC 507.  
ALL CANTILIEVERS SHALL HAVE AT LEAST A 3:1 BACK SPAN.  
A MINIMUM OF DOUBLE JOIST UNDER EACH BEARING WALL IS REQUIRED.

ALL WALLS UNDER 12' SHALL BE DOUGLAS FIR LARCH #2 2X4 STUDS AT 16" O.C. FULL HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED).

ALL WALLS 12' AND OVER SHALL BE DOUGLAS FIR #2 (M-12) LUMBER 2X6 STUDS AT 16" O.C. FULL HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED).

APA SIMPLIFIED WALL BRACING (SYSTEM REPORT SR102-D)

METHOD SHALL BE CS-WSP WITH INCREASED SHEATHING THICKNESS (PERFORMANCE CATEGORY). WSP SHEATHING SHALL BE RATED SHEATHING MINIMUM # PERFORMANCE CATEGORY MEETING REQUIREMENTS OF DEPARTMENT OF COMMERCE DOC P51 OR P52 (VOLUNTARY PRODUCT STANDARDS).

PS2-10 TABLE D1 RECOMMENDED THICKNESS LABELING FOR PANELS:  
# PERFORMANCE CATEGORY.  
MINIMUM THICKNESS OF .406 INCHES (10.32 MM)  
MAXIMUM THICKNESS .469 INCHES (11.91 MM)  
RECOMMENDED THICKNESS LABEL - THICKNESS .418 IN.

NAIL SIZE SHALL BE 8D HAVING A DIAMETER OF .131" AND LENGTH OF 2.5".

CLOSER NAILING SCHEDULE ON FIRST STORY OF 2ND STORY SHEATHING SHALL BE INSTALLED WITH A MINIMUM 8D COMMON NAILS SPACED AT 4" OC AT PANEL EDGES AND AT 12" OC OVER INTERMEDIATE SUPPORTS.  
FOR SINGLE STORY OR TOP OF TWO OR THREE STORY BUILDINGS, SHEATHING MAY BE INSTALLED WITH 8D COMMON NAILS SPACED AT 6" OC AT PANEL EDGES AND 12" AT INTERMEDIATE SUPPORTS.

SHEATHING SHALL BE INSTALLED OVER ALL AREAS EXCLUDING WINDOWS AND DOORS AND INCLUDING GABLE ENDS.

ALL HORIZONTAL PANEL JOINTS SHALL OCCUR OVER AND BE NAILED TO COMMON FRAMING OR BLOCKING WITH AN APPROPRIATE PANEL EDGE-NAILING SCHEDULE IN ACCORDANCE WITH IRC R602.10.10.

INTERIOR FINISH OF EXTERIOR WALLS SHALL BE MINIMUM 5/8" GYPSUM BOARD INSTALLED ON THE INTERIOR SIDE FASTENED IN ACCORDANCE WITH IRC TABLE R702.3.5.(NOT REQUIRED ON CS-WSP PANELS ADJACENT TO CS-G OR CS-PF PANELS)

EXTERIOR BRACING METHOD CS-WSP AND INTERIOR METHOD GB ON INTERIOR FINISH OF EXTERIOR WALLS PER SPECS  
INTERIOR WALL BRACING NOT REQUIRED ON INTERIOR WALLS

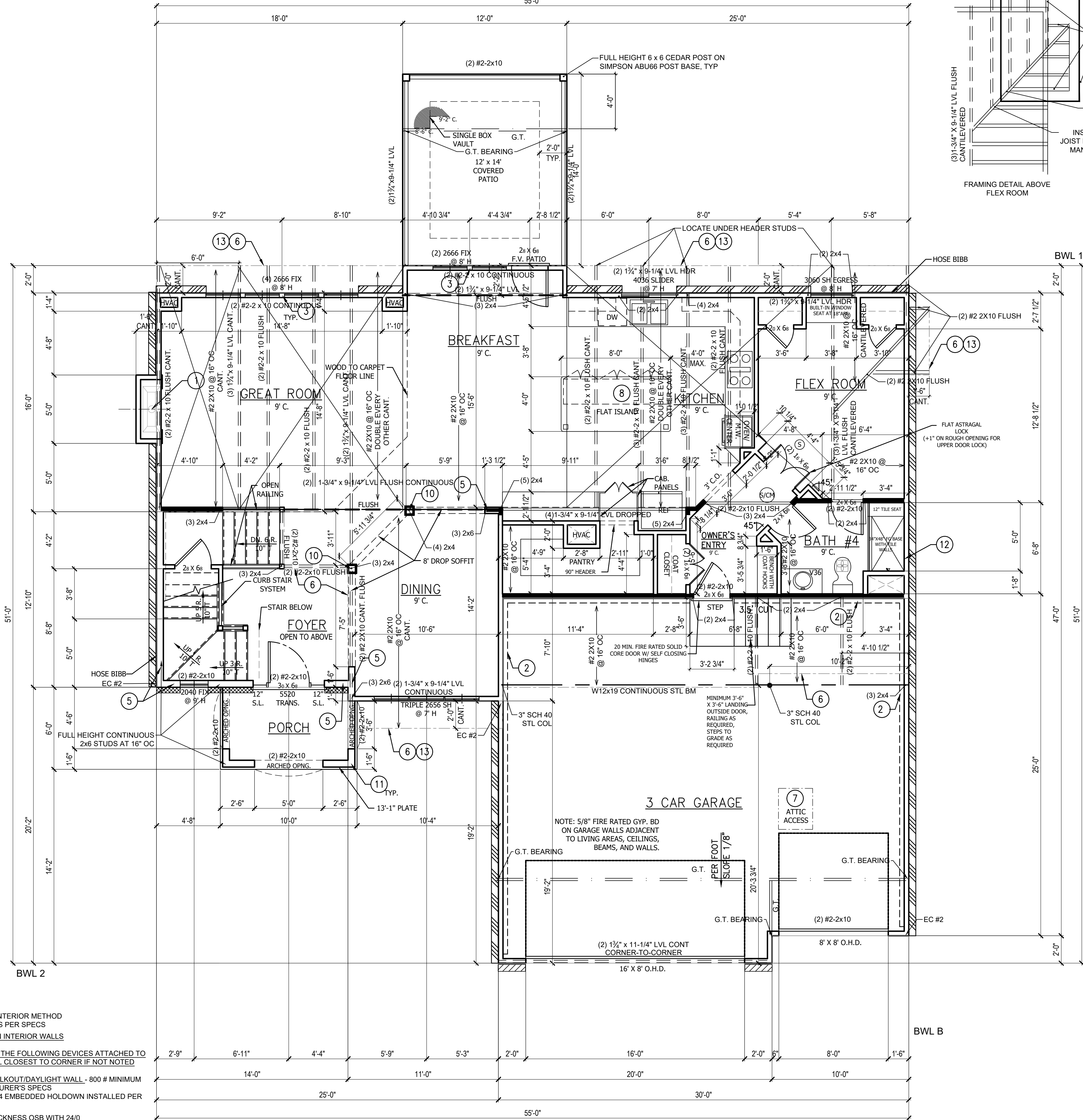
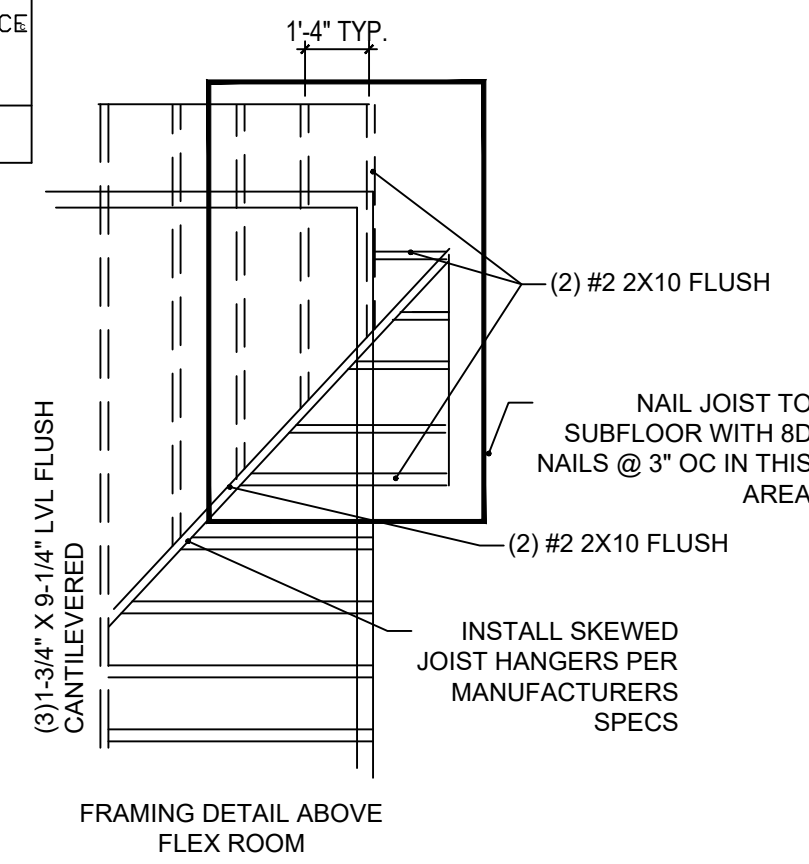
EC#2 - END CONDITION #2 SHALL BE ONE OF THE FOLLOWING DEVICES ATTACHED TO THE END STUD OF THE BRACED WALL PANEL CLOSEST TO CORNER IF NOT NOTED OTHERWISE

2ND FLOOR AND/OR MAIN FLOOR ALONG WALKOUT/DAYLIGHT WALL - 800 # MINIMUM TENSION STRAP INSTALLED PER MANUFACTURER'S SPECS  
MAIN FLOOR TO FOUNDATION WALL - STD14 EMBEDDED HOLDOWN INSTALLED PER MANUFACTURER'S SPECS

EXTERIOR WALL BRACING 15/32" PANEL THICKNESS OSB WITH 24/0 STRUCTURAL PANEL SPAN RATING. 1-3/8" MIN PEN, 8d FASTENERS AT 6" FOR PANEL EDGES AND 12" IN FIELD. INSTALL BLOCKING AT BASE AND TOP OF WINDOWS

EXTERIOR BRACING PFF (SEE DETAILS) PER IRC R602.10.5  
INTERIOR LOAD BEARING WALL (EXTERIOR WALLS ARE ASSUMED LOAD BEARING)

IRC TABLE N102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL)										
CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	GLAZED FENESTRATION SHGC**	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB R-VALUE & DEPTH	CRAWL SPACE WALL R-VALUE
4 EXCEPT MARINE	.32	.55	.40	49	20 OR 13+5	8/13	19	10/13	10, 2 FT	10/13



MAIN FLOOR PLAN 1  
SCALE: 1/4" = 1'-0"

**FLOOR PLAN NOTES**

- DIRECT VENT FIREPLACE-- INSTALL BY MANUFACTURER'S RECOMMENDATION. FIREPLACE PLATFORM DIMENSIONS-- 7 3/4" TALL, 37" WIDE & 16" DEEP. INSTALL INSULATION & AIR BARRIER BEHIND PLATFORM.
- EXPOSED TOP OF FOUNDATION WALL
- 3 STUDS BETWEEN WINDOW UNITS
- NOT USED
- 2x6 STUDS AT 16" O.C.
- LINE OF FLOOR ABOVE
- 1'-10"x3' MINIMUM ATTIC ACCESS WITH 3/4" BACKER BOARD AND 2 LATCHES
- 24" CABINET + 24" CABINET + 12" FLUSH OVERHANG-- VERIFY LOCATION WITH BUILDER. DISTANCE BETWEEN STOVE/CABINETS AND ISLAND-- 4'-0" MAX.
- NOT USED
- 8" SQUARE COLUMN
- 2X6 STUD WALL WITH FRONT FACADE IN STONE. ALLOW MIN. 2" ON FRONT FOR STONE TO FIT WITHIN BOUNDARY OF STOOP. SEE PLANS FOR SIZE.
- SIX SIDED ASSEMBLY INCLUDING THERMOPLY ON EXTERIOR WALL TO 2" ABOVE TOP OF SHOWER UNIT. SEE FRAMING SPECIFICATIONS FOR DETAILS.
- INSULATE CANTILEVER AS REQUIRED PRIOR TO BLOCKING.

**GENERAL NOTES:**

- WINDOWS TO COMPLY WITH IRC R312.2 FOR FALL PROTECTION
- ALL EXTERIOR WALLS, INTERIOR BEARING WALLS, AND INTERIOR BRACED WALLS ARE AT 16" O.C. UNLESS NOTED OTHERWISE.
- ROOF AND CEILING FRAMING ARE PRE-ENGINEERED WOOD TRUSSES UNLESS NOTED OTHERWISE.
- LOCATE CARBON MONOXIDE DETECTORS ALONG SIDE SMOKE DETECTORS OR PROVIDE A COMBINATION UNIT.
- DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.
- HVAC DUCTWORK RUNNING THROUGH ATTIC SPACE TO BE HUNG FROM ABOVE TO ALLOW COMPLETE INSULATION SURROUND.
- PROVIDE BLOCKING AT ALL CEILING JUMPS FOR INSULATION.
- 2x6 EXTERIOR WALL OVER 12' SHALL BE DOUGLAS FIR #2.
- SMOKE AND CARBON MONOXIDE DETECTORS SHOWN ON PLANS ARE TO BE CONSIDERED RECOMMENDATIONS ONLY. FINAL PLACEMENT IS TO BE DETERMINED BY MUNICIPAL REQUIREMENTS.
- WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER INDUSTRY STANDARDS. EX: 3050 SH=3'-0" X 5'-0" SNGLE HUNG, 3066 FIX=3'-0" X 6'-6" FIXED.

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**\*\*ALL INTERIOR NON-LOAD BEARING, NON-BRACED, NON-CABINET WALLS ARE ALLOWED AT 24" OC.**

**NOTE:**

ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2 X 10 ON LOAD BEARING WALLS.

**DETAILS AND NOTES:**  
BASEMENT EGRESS WINDOWS ARE TO COMPLY WITH IRC R310.2. WINDOW FALL PROTECTION REQUIREMENTS TO COMPLY WITH SECTION R612.2.

STAIRS SHALL COMPLY WITH IRC R311.7. THE MAXIMUM RISER HEIGHT OF STAIRWAYS SHALL NOT EXCEED 7-3/4" AND THE TREADS SHALL PROVIDE A MINIMUM TREAD DEPTH OF 10" (IRC 2018 R311.7.5.1). SELF-CLOSING DEVICES ARE REQUIRED FOR GARAGE TO DWELLING SEPARATION DOORS. STEEL COLUMNS WILL BE A MINIMUM OF SCHEDULE 40.

ENERGY REQUIREMENTS SHALL CONFORM TO THE IRC CHAPTER 11. SECURITY SHALL CONFORM TO IRC R328.03.03. AN ACCESSIBLE CONNECTION POINT WILL BE PROVIDED TO A 20 FOOT CONCRETE ENCASED ELECTRODE (FOOTING REBAR) FOR THE ELECTRICAL SERVICE GROUNDING ELECTRODE CONDUCTOR (UFER GROUND). CARBON MONOXIDE DETECTORS WILL BE PROVIDED IN ACCORDANCE WITH IRC SECTION R315. THE BUILDING THERMAL ENVELOPE IS REQUIRED TO BE SEALED (2018 IRC SECTION N1102.4.1 AND TABLE N1102.4.1.1). DUCTS, AIR HANDLERS, FILTER BOXES AND BUILDING CAVITIES USED AS DUCTS SHALL BE SEALED (2018 IRC SECTION N1103.2.2).

**FLOOR PLANS:**  
LEDGERS (FLOOR AND CEILING) SHALL BE IN ACCORDANCE WITH IRC 507. ALL CANTILEVERS SHALL HAVE AT LEAST A 3:1 BACK SPAN. A MINIMUM OF DOUBLE JOIST UNDER EACH BEARING WALL IS REQUIRED.

ALL WALLS UNDER 12' SHALL BE DOUGLAS FIR LARCH #2 2X4 STUDS AT 16" O.C. FULL HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED).

ALL WALLS 12' AND OVER SHALL BE DOUGLAS FIR #2 (M-12) LUMBER 2X6 STUDS AT 16" O.C. FULL HEIGHT CONTINUOUS (UNLESS OTHERWISE NOTED).

IRC TABLE N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT (PARTIAL)										
CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	GLAZED FENESTRATION SHGC**	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB R-VALUE & DEPTH	CRAWL SPACE WALL R-VALUE
4 EXCEPT MARINE	.32	.55	.40	49	20 OR 13+5	8/13	19	10/13	10, 2 FT	10/13

**APA SIMPLIFIED WALL BRACING (SYSTEM REPORT SR102-D)**

METHOD SHALL BE CS-WSP WITH INCREASED SHEATHING THICKNESS (PERFORMANCE CATEGORY). WSP SHEATHING SHALL BE RATED SHEATHING MINIMUM PERFORMANCE CATEGORY MEETING REQUIREMENTS OF DEPARTMENT OF COMMERCE DOC PS1 OR PS2 (VOLUNTARY PRODUCT STANDARDS).

PS2-10 TABLE D1 RECOMMENDED THICKNESS LABELING FOR PANELS:  
PERFORMANCE CATEGORY - MINIMUM THICKNESS OF 406 INCHES (10.32 MM)  
MAXIMUM THICKNESS 469 INCHES (11.91 MM)  
RECOMMENDED THICKNESS LABEL - THICKNESS 418 IN.

NAIL SIZE SHALL BE 8D HAVING A DIAMETER OF .131" AND LENGTH OF 2.5".

CLOSER NAILING SCHEDULE ON FIRST STORY OF 2ND STORY SHEATHING SHALL BE INSTALLED WITH A MINIMUM 8D COMMON NAILS SPACED AT 4" OC AT PANEL EDGES AND AT 12" OC OVER INTERMEDIATE SUPPORTS. FOR SINGLE STORY OR TOP OF TWO OR THREE STORY BUILDINGS, SHEATHING MAY BE INSTALLED WITH 8D COMMON NAILS SPACED AT 6" OC AT PANEL EDGES AND 12" AT INTERMEDIATE SUPPORTS.

SHEATHING SHALL BE INSTALLED OVER ALL AREAS EXCLUDING WINDOWS AND DOORS AND INCLUDING GABLE ENDS.

ALL HORIZONTAL PANEL JOINTS SHALL OCCUR OVER AND BE NAILED TO COMMON FRAMING OR BLOCKING WITH AN APPROPRIATE PANEL EDGE-NAILING SCHEDULE IN ACCORDANCE WITH IRC R602.10.10.

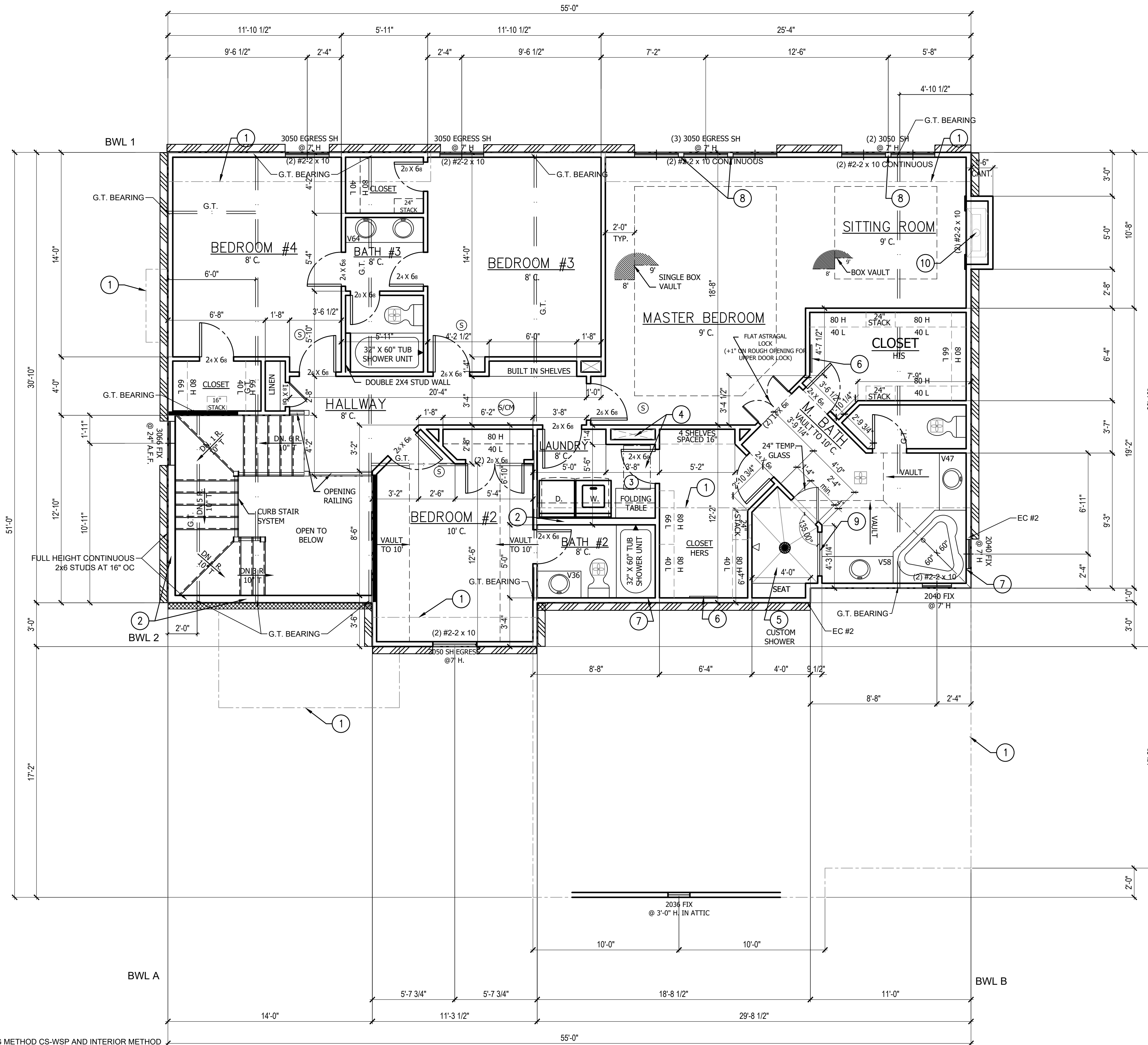
INTERIOR FINISH OF EXTERIOR WALLS SHALL BE MINIMUM 5/8" GYPSUM BOARD INSTALLED ON THE INTERIOR SIDE FASTENED IN ACCORDANCE WITH IRC TABLE R702.3.5. (NOT REQUIRED ON CS-WSP PANELS ADJACENT TO CS-G OR CS-PF PANELS)

**FLOOR PLAN NOTES**

- LINE OF FLOOR BELOW
- 2x6 STUD WALL
- 1'-10"x3' MINIMUM ATTIC ACCESS WITH 3/4" BACKER BOARD AND 2 LATCHES
- BUMP TRUSSES FOR ATTIC AND HVAC ACCESS
- CUSTOM TILE SHOWER WITH TILE BASE AND TILE WALLS, 12" TILE SEAT AT 22" AFF, 1 RAIN SHOWER HEAD AND 1 WALL SHOWER HEAD AND SOAP NICHE.
- FRAMED MIRROR
- SIX SIDED ASSEMBLY INCLUDING THERMOPLY ON EXTERIOR WALL TO 2" ABOVE TOP OF SHOWER UNIT/TUB DECK. SEE FRAMING SPECIFICATIONS FOR DETAILS.
- 3 STUDS BETWEEN WINDOWS
- GLASS WINDOW 3' WIDE, 48" AFF TO 83" AFF.
- DIRECT VENT FIREPLACE - INSTALL BY MANUFACTURER'S RECOMMENDATION. FIREPLACE PLATFORM DIMENSIONS - 7 1/2" TALL, 37" WIDE & 16" DEEP. INSTALL INSULATION & AIR BARRIER BEHIND PLATFORM.

**GENERAL NOTES:**

- WINDOWS TO COMPLY WITH IRC R312.2 FOR FALL PROTECTION
- ALL EXTERIOR WALLS, INTERIOR BEARING WALLS, AND INTERIOR BRACED WALLS ARE AT 16" O.C. UNLESS NOTED OTHERWISE.
- ROOF AND CEILING FRAMING ARE PRE-ENGINEERED WOOD TRUSSES UNLESS NOTED OTHERWISE.
- LOCATE CARBON MONOXIDE DETECTORS ALONG SIDE SMOKE DETECTORS OR PROVIDE A COMBINATION UNIT.
- DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.
- HVAC DUCTWORK RUNNING THROUGH ATTIC SPACE TO BE HUNG FROM ABOVE TO ALLOW COMPLETE INSULATION SURROUND.
- PROVIDE BLOCKING AT ALL CEILING JUMPS FOR INSULATION.
- 2x6 EXTERIOR WALL OVER 12' SHALL BE DOUGLAS FIR #2.
- SMOKE AND CARBON MONOXIDE DETECTORS SHOWN ON PLANS ARE TO BE CONSIDERED RECOMMENDATIONS ONLY. FINAL PLACEMENT IS TO BE DETERMINED BY MUNICIPAL REQUIREMENTS.
- WINDOW SIZES ARE WRITTEN IN FEET AND INCHES PER INDUSTRY STANDARDS. EX: 3050 SH=3'-0" X 5'-0" SINGLE HUNG, 3066 FIX=3'-0" X 6'-6" FIXED.



- EXTERIOR BRACING METHOD CS-WSP AND INTERIOR METHOD GB ON INTERIOR FINISH OF EXTERIOR WALLS PER SPECS  
INTERIOR WALL BRACING NOT REQUIRED ON INTERIOR WALLS
- EC#2 - END CONDITION #2 SHALL BE ONE OF THE FOLLOWING DEVICES ATTACHED TO THE END STUD OF THE BRACED WALL PANEL CLOSEST TO CORNER IF NOT NOTED OTHERWISE:  
2ND FLOOR AND/OR MAIN FLOOR ALONG WALKOUT/DAYLIGHT WALL - 800# MINIMUM TENSION STRAP INSTALLED PER MANUFACTURER'S SPECS  
MAIN FLOOR TO FOUNDATION WALL - STD14 EMBEDDED HOLDOWN INSTALLED PER MANUFACTURER'S SPECS
- EXTERIOR WALL BRACING 15/32" PANEL THICKNESS OSB WITH 2410 STRUCTURAL PANEL SPAN RATING. 1-3/8" MIN PEN, 8d FASTENERS AT 6" FOR PANEL EDGES AND 12" IN FIELD. INSTALL BLOCKING AT BASE AND TOP OF WINDOWS
- EXTERIOR BRACING PFH (SEE DETAILS) PER IRC R602.10.5  
INTERIOR LOAD BEARING WALL (EXTERIOR WALLS ARE ASSUMED LOAD BEARING)

UPPER LEVEL PLAN ①  
SCALE: 1/4" = 1'-0"

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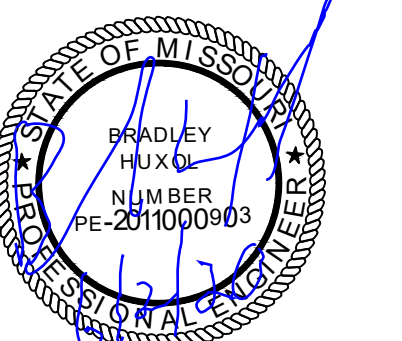
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**TRUSS ROOF NOTES: (BY OTHERS)**

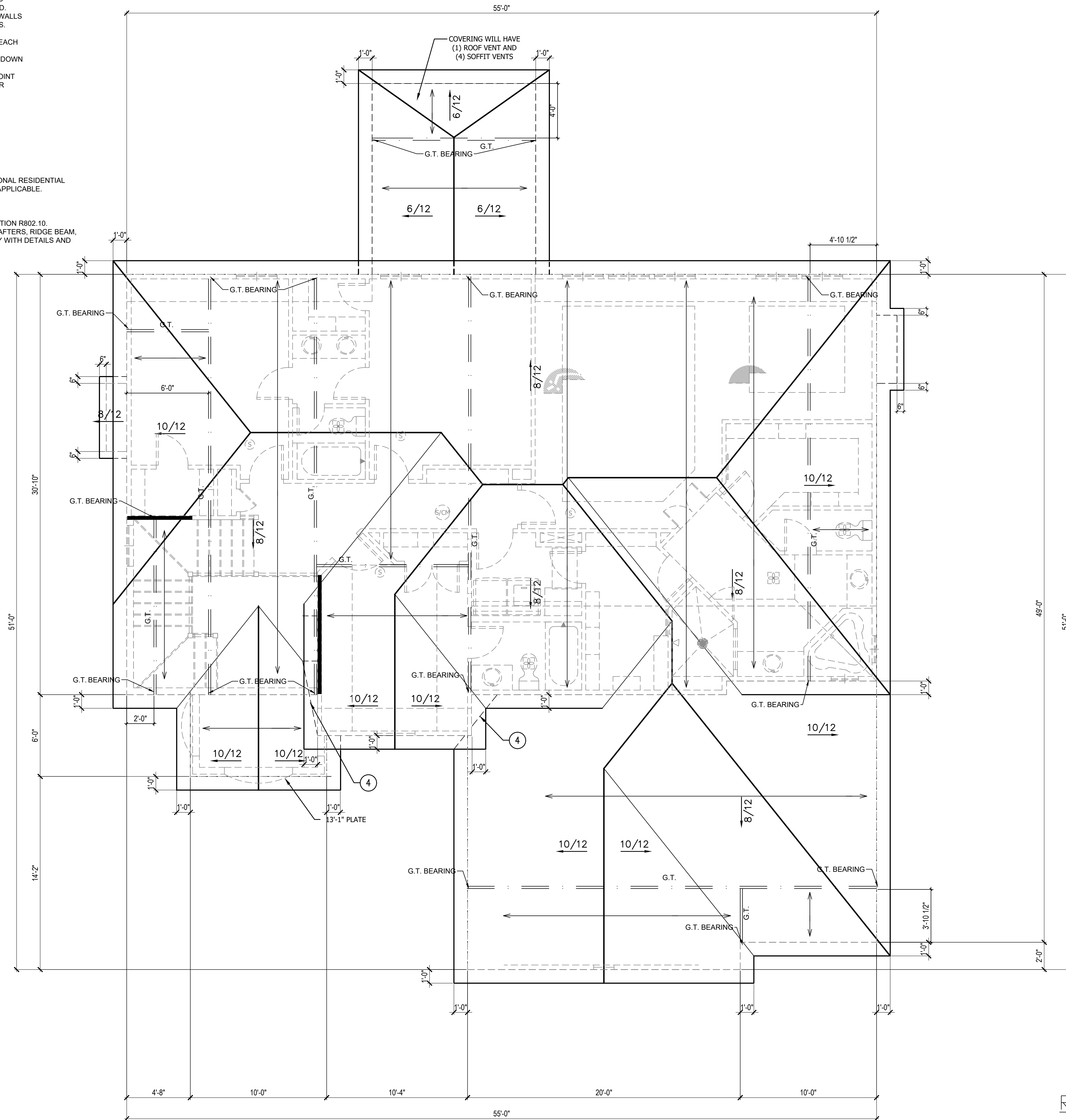
- DESIGNED FOR LIGHT ROOF COVERING  
TOP CHORD:  
LIVE LOAD/SNOW LOAD (PSF): 25  
DEAD LOAD (PSF): 10  
BOTTOM CHORD:  
DEAD LOAD (PSF): 10
- ALL EXTERIOR AND/OR LOAD BEARING WALL HEADERS SHALL BE MIN. (2) #2 x 10 UNLESS OTHERWISE NOTED
- CONSULT ENGINEER IF TRUSSES BEAR ON INTERIOR WALLS SHOWN AS NON-LOAD BEARING ON APPROVED PRINTS
- MIN. STUD PACK OF (4) 2 x 4 OR (4) 2 x 6 DOUGLAS FIR LARCH #2 (DEPENDING ON WALL THICKNESS) BELOW EACH BEARING POINT OF EACH GIRDER TRUSS, UNLESS OTHERWISE NOTED. STUD PACKS SHALL BE CARRIED DOWN TO FOUNDATION OR LOAD SUPPORTING MEMBER
- PROVIDE 2x SOLID BLOCKING SUPPORT BELOW ALL POINT LOADS CONTINUOUS TO BEARING STRUCTURE AND/OR FOUNDATION BELOW.
- ROOF IS ENGINEERED TO COMPLY WITH IRC 802

- = ROOF TRUSS FRAMING DIRECTION
- G.T. = GIRDER TRUSS LOCATION
- = INTERIOR LOAD BEARING WALL

**NOTE:**

ALL CONSTRUCTION SHALL CONFORM TO 2018 INTERNATIONAL RESIDENTIAL CODE OR ATTACHED ENGINEER SPECIFICATIONS WHERE APPLICABLE.

**ROOF:**  
ROOF IS DESIGNED FOR 20 PSF SNOW LOAD.  
WOOD TRUSSES SHALL BE IN ACCORDANCE WITH IRC SECTION R802.10.  
CEILING JOIST OR RAFTER TIE CONNECTIONS BETWEEN RAFTERS, RIDGE BEAM, REQUIRED COLLAR TIES OR RIDGE STRAPS SHALL COMPLY WITH DETAILS AND IRC SECTION R802, R802.3, R802.3.1, R802.11.



**ROOF PLAN 1**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

- ROOF AND CEILING FRAMING ARE PRE-ENGINEERED ROOF TRUSSES
- ASPHALT SHINGLES MIN 2/12. FLASH ALL PENETRATIONS AND INTERSECTIONS
- VENT EACH ENCLOSED ATTIC SPACE. NET AREA OPENING = 1/50TH OF VENTED AREA OR 1/300TH IF 580% OF VENTING NEAR TOP
- BUILD CRICKET VALLEY AWAY FROM INTERSECTION FOR POSITIVE DRAINAGE. SEE FRAMING SPECIFICATIONS FOR DETAILS.
- DIMENSIONAL LUMBER IS LABELED PER INDUSTRY STANDARD TERMINOLOGY. ACTUAL LUMBER SIZING IS EXPECTED TO VARY PER VENDOR.
- HVAC DUCTWORK RUNNING THROUGH ATTIC SPACE TO BE HUNG FROM ABOVE TO ALLOW COMPLETE INSULATION SURROUND.
- PROVIDE BLOCKING AT ALL CEILING JUMPS FOR INSULATION.
- PROVIDE FOAM INSULATION AT EXTERIOR WHERE MAIN LEVEL ROOFLINE MEETS UPPER LEVEL WALLS.

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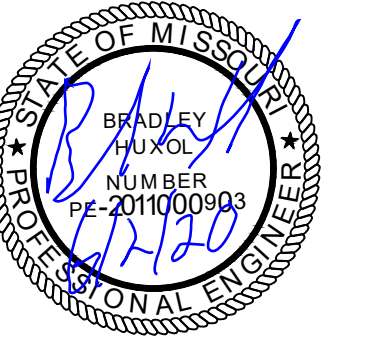
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GENERAL NOTES

PLANS SHALL COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) WITH AMENDMENTS AS ADOPTED BY THE APPROPRIATE GOVERNING JURISDICTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IF ANY CHANGES OR DEVIATIONS FROM THE PLAN ARE MADE DURING CONSTRUCTION.

IF DISCREPANCIES ARE IDENTIFIED THE MOST CONSERVATIVE SPECIFICATION SHALL APPLY.

LOADING

DEAD

Table listing dead loads: LIGHT ROOF 10 PSF, HEAVY ROOF +10 PSF (CONCRETE, SLATE, TILE), ROOF + CEILING (NO STORAGE) 15 PSF, etc.

LIVE

Table listing live loads: ROOF LIVE LOAD 15 PSF, FLOOR LIVE LOAD 40 PSF (HABITABLE), GARAGE 50 PSF, STORAGE 20 PSF (UN-INHABITABLE), etc.

SNOW

Table listing snow loads: GROUND SNOW LOAD 20 PSF

WIND

Table listing wind loads: ULTIMATE DESIGN WIND SPEED VELOCITY 115 MPH, EXPOSURE CATEGORY B

SOIL AND SITE ASSUMPTIONS:

- 1. FOUNDATION DESIGN ASSUME A MINIMUM SOIL BEARING PRESSURE FOR THE SITE OF 2,000 PSF. CONTRACTOR TO VISUALLY INSPECT SITE OR PROVIDE GEOTECHNICAL INVESTIGATION TO VERIFY MINIMUM ACCEPTABLE SOIL CONDITIONS SW, SP, SM, SC, GM, AND GX AS DEFINED PER IRC TABLE R301.5.

FOUNDATION NOTES:

FOUNDATION ANCHORAGE (IRC 403.1.6)

SILL PLATES SHALL BE BOLTED TO THE FOUNDATION WALL WITH A MINIMUM 1/2" DIAMETER ANCHOR BOLTS EMBEDDED AT LEAST 7" INTO THE CONCRETE. BOLTS SHALL BE SPACED NO GREATER THAN 6' O.C.

WALL BRACING METHODS PER IRC R602 MAY REQUIRE ADDITIONAL ANCHORAGE.

CONCRETE SLABS PLACED ON FILL MATERIAL WHICH EXCEEDS 24" OF COMPACTED GRANULATED MATERIAL (SAND OR GRAVEL) OR 8" OF EARTH: THIS MAY OCCUR AT GARAGE FLOOR FILLS, OR OVER EXCAVATED AREAS UNDER FLOOR SLABS.

SLABS AT MAX 4' OVER-DIG ADJACENT T FOUNDATION WALL: WHERE SOIL IS EXCAVATED FOR A MAXIMUM DIMENSION OF 4' HORIZONTALLY ADJACENT TO A FOUNDATION WALL.

VAPOR RETARDER / BARRIER (IRC R506.2.3)

A 6 MIL POLYETHYLENE OR APPROVED VAPOR RETARDER WITH JOINTS LAPPED A MINIMUM OF 6" IS REQUIRED BETWEEN THE CONCRETE FLOOR SLAB AND THE BASE COURSE OR PREPARED SUBGRADE.

FOUNDATION AND LOT GRADING (IRC R401.3)

GRADES SHALL BE SLOPED AWAY FROM THE FOUNDATION A MINIMUM OF 6" IN THE FIRST 10'. ALTERNATE APPROACHES MAY BE APPROVED IF THE ALTERNATE DESIGN IS EQUIVALENT IN EFFECTIVENESS AND PERFORMANCE.

IRC R403.1.4

- THE BOTTOM OF ALL FOOTINGS SHALL EXTEND NOT LESS THAN 36" BELOW GRADE FOR FROST PROTECTION.
- FOOTINGS FOR FREESTANDING ACCESSORY STRUCTURES WITH AN AREA OF 600 SF OR LESS AND AN EAVE HEIGHT OF 10' OR LESS SHALL EXTEND BELOW GRADE A MINIMUM OF 12".

FOOTINGS:

EXTERIOR WALLS, BEARING WALLS, COLUMN AND PIERS SHALL BE SUPPORTED ON CONTINUOUS SOLID MASONRY OR CONCRETE FOOTINGS. OR APPROVED STRUCTURAL SYSTEM TO SAFELY SUPPORT THE IMPOSED LOADS AND SHALL BE SIZED AND REINFORCED IN ACCORDANCE WITH THIS STANDARD OR SHALL BE ENGINEERED DESIGN.

CONCRETE

- 1. ALL CONCRETE CONSTRUCTION SHOULD CONFORM TO ACI 318-11 AND THE 2018 INTERNATIONAL RESIDENTIAL CODE.
- 2. THE MINIMUM CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE AS SPECIFIED IN IRC TABLE R402.2.
- 3. CONCRETE MIX TO UTILIZE A MAXIMUM WATER-CEMENT MATERIALS RATIO OF 0.45 FOR ALL APPLICATIONS.

MINIMUM STANDARDS:

CONCRETE SHALL BE 6% (± 1%) AIR-ENTRAINED FOR GARAGE SLABS AND FOR ALL LOCATION'S FOOTINGS, WALLS OR FLATWORK WHERE EXPOSED TO WEATHER.

CONCRETE REINFORCEMENT STEEL

- 1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 40.
- 2. SMOOTH BARS OR WELDED WIRE FABRIC SHALL CONFORM TO ASTM 185.
- 3. ALL REBAR LAP SPLICES SHALL BE CLASS B LAP SPLICES AS SHOWN ON THE LAP SPLICE SCHEDULE.
- 4. DEVELOPMENT LENGTH NOTED IS EQUAL TO 80% OF THE LENGTH NOTED IN THE LAP SPLICE SCHEDULE.

FOOTNOTES:

- 1. WALL HEIGHT IS MEASURED FROM THE TOP OF THE WALL TO THE TOP OF THE FLOOR SLAB.
- 2. VERTICAL REINFORCEMENT FOR CONCRETE WALLS THAT ARE NOT FULL HEIGHT AND FOR REINFORCEMENT SPACED 24" O.C. MAY BE PLACED IN THE MIDDLE OF THE WALL.
- 3. HORIZONTAL REINFORCEMENT: A. ONE BAR SHALL BE PLACED WITHIN 12" OF THE TOP OF THE WALL.

TABLE 1.1

Table with 4 columns: BAR SIZE, TOP BARS (CASE 1, CASE 2), OTHER BARS (CASE 1, CASE 2). Rows for #3, #4, #5, #6.

STEEL DECK - SUSPENDED SLABS

- 1. STEEL DECK QUALITY, FABRICATION, DELIVERY, INSTALLATION AND ATTACHMENT SHALL COMPLY WITH THE PROVISIONS OF THE STEEL DECK INSTITUTE, SDI.
- 2. STEEL ROOF DECK SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON CONSTRUCTION DRAWINGS: WIDE RIB CONFIGURATION, 1.5" DEPTH, 24GA DESIGN THICKNESS, etc.
- 3. CONTRACTOR AND/OR DECK MANUFACTURER SHALL FURNISH ALL NECESSARY DECK CLOSURE ACCESSORIES TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF ROOF INSULATION AND ROOF COVERING.

STRUCTURAL STEEL

- 1. STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM WITH AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
- 2. STEEL GRADE AND SPECIFICATION SHALL BE AS FOLLOWS: 2.1. HOLLOW STRUCTURAL SECTIONS: ASTM A500 (Fy = 46 KSI), etc.
- 3. BOLTS SHALL CONFORM TO ASTM A307

ENERGY REQUIREMENTS:

- 1. LIGHTING FIXTURES PENETRATING THE THERMAL ENVELOPE SHALL BE IC-RATED, LEAKAGE RATED, AND SEALED TO THE GYPSUM WALLBOARD AS REQUIRED PER N1102.4.4.
- 2. PROGRAMMABLE THERMOSTATS SHALL BE INSTALLED AS REQUIRED PER N1103.2.2.1.
- 3. AIR HANDLERS SHALL BE RATED FOR MAXIMUM 2% AIR LEAKAGE RATE PER N1103.2.2.1.

GARAGES:

- 1. THE GARAGE FLOOR SHALL SLOPE TOWARDS THE GARAGE DOORWAYS.
- 2. DOORS BETWEEN THE GARAGE AND THE DWELLING - MINIMUM 1-3/8" SOLID CORE OR HONEY COMBED STEEL DOOR OR 20 MINUTE FIRE RATED.
- 3. THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREAS BY A MINIMUM 5/8" GYPSUM BOARD APPLIED TO THE GARAGE SIDE WHERE A FLOOR/CEILING SPACE IS PROVIDED ABOVE.

STAIRWAYS:

- 1. STAIRWAYS SHALL PROVIDE A MAXIMUM 7-3/4" RISE AND A MINIMUM 10" RUN.
- 2. PROVIDE GUARD RAILS BETWEEN 36" GUARD RAILS ON THE OPEN SIDES OF RAISED FLOORS, PORCHES AND BALCONIES; MINIMUM 34" GUARD RAILS ON THE OPEN SIDES OF STAIRWAYS LOCATED MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW.
- 3. GUARD RAIL ENCLOSURES SHALL HAVE INTERMEDIATE RAILS OF ORNAMENTAL PATTERNS THAT DO NOT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER.

GLAZING

- 1. GLAZING IN HAZARDOUS LOCATIONS AS IDENTIFIED IN IRC R308.4 SHALL BE OF APPROVED SAFETY GLAZING MATERIALS. GLASS IN STORM DOORS, INDIVIDUAL FIXED OR OPENABLE PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARCH OF THE DOOR.
- 2. WINDOW FALL PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH R312.2.

EMERGENCY EGRESS AND RESCUE

- 1. PROVIDE ONE WINDOW FROM EACH BEDROOM THAT HAS A MINIMUM OPENABLE AREA OF 5.7 SF WITH A MINIMUM OPENABLE HEIGHT OF 24" AND WIDTH OF 21"
- 2. BASEMENT EGRESS TO MEET THE REQUIREMENTS OF IRC R310.
- 3. PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM, OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR INCLUDING BASEMENTS. ALARMS SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS IN THE DWELLING.

FRAMING NOTES:

- 1. ALL LUMBER SIZES ARE DOUGLAS FIR-LARCH #2 UNLESS OTHERWISE NOTED.
- 2. ALL UNMARKED HEADERS SHALL BE A MINIMUM #2 DOUGLAS FIR LARCH (2) 2x10 ON LOAD BEARING WALLS.
- 3. ALL HEADER/BEAMS TO BEAR ON A MINIMUM OF (2) 2x4 POSTS UNLESS NOTED OTHERWISE.
- 4. DOUBLE JOIST UNDER INTERIOR NON-LOAD BEARING WALLS.

GENERAL NOTES

SHEET #

GN1.0

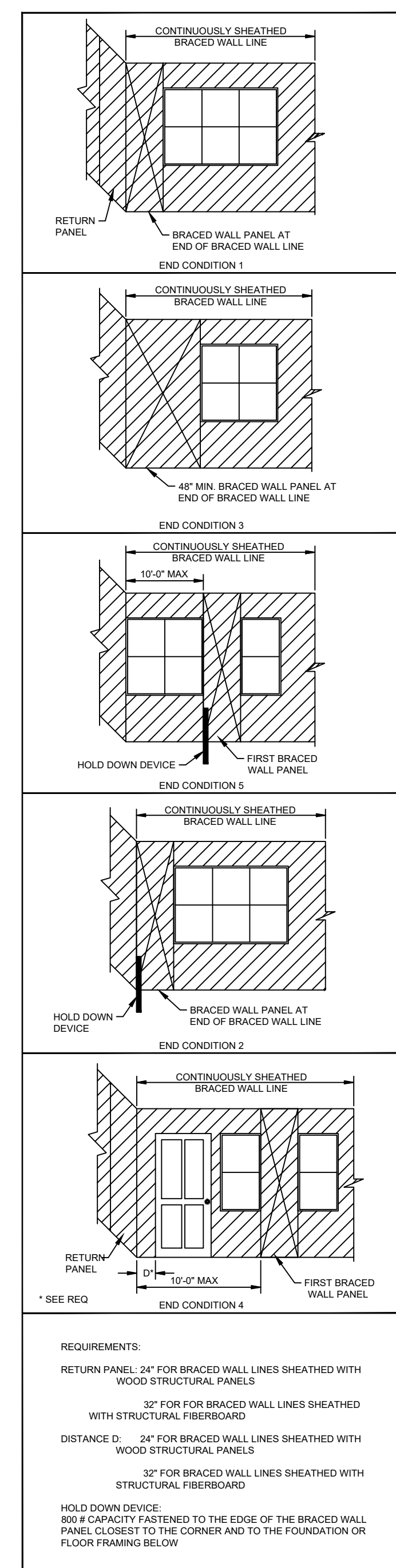


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FRAMING DETAILS

ENGINEERED LUMBER MINIMUM DESIGN REQUIREMENTS table with columns for fb (PSI), E (PSI), Fv (PSI) for Versa-Lam LVL and Douglas Fir-Larch #2.



REQUIREMENTS: RETURN PANEL: 2x4 FOR BRACED WALL LINES SHEATHED WITH WOOD STRUCTURAL PANELS... END CONDITIONS FOR BRACED WALL LINES WITH CONTINUOUS SHEATHING (IRC FIGURE R602.10.7) N.T.S.

2018 IRC TABLE R602.3(1) (SEE IRC FOR FOOTNOTES) - FLOOR section. Includes items 21 through 39 with descriptions of joists, girders, and fasteners.

2018 IRC TABLE R602.3(1) (SEE IRC FOR FOOTNOTES) - WALL section. Includes items 8 through 39 with descriptions of studs, headers, and sheathing.

TABLE R507.2.1 PLACEMENT OF LAG SCREWS AND BOLTS IN DECK LEDGERS AND BAND JOISTS. Table with columns for TOP EDGE, BOTTOM EDGE, ENDS, and ROW SPACING.

REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES IRC TABLE 602.3(3) (PARTIAL). Table with columns for MINIMUM NAIL, MINIMUM WOOD STRUCTURAL PANEL RATING, MINIMUM NOMINAL PANEL THICKNESS (IN), MAX WALL STUD SPACING, PANEL NAIL SPACING, and ULTIMATE DESIGN WIND SPEED.

2018 IRC TABLE R602.3(1) (SEE IRC FOR FOOTNOTES) - ROOF section. Includes items 1 through 7 with descriptions of blocking, joists, rafters, and fasteners.

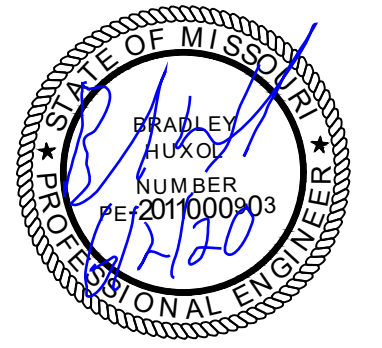
TABLE R507/2 FASTENER SPACING FOR A SOUTHERN PINE OR HEM-FIR DECK LEDGER 2" NOMINAL SOLID SAWN SPRUCE-PINE-FIR BAND JOIST (DECK LIVE LOAD = 40PSF, DECK DEAD LOAD = 10 PSF). Table with columns for JOIST SPAN and rows for different fastener types and diameters.

MINIMUM WALL STUD FRAMING NOMINAL SIZE AND GRADE table. Columns include MAXIMUM PONY WALL HEIGHT (FEET), MAXIMUM TOTAL WALL HEIGHT (FEET), MAXIMUM OPENING WIDTH (FEET), and TENSION STRAP CAPACITY REQUIRED (POUNDS).

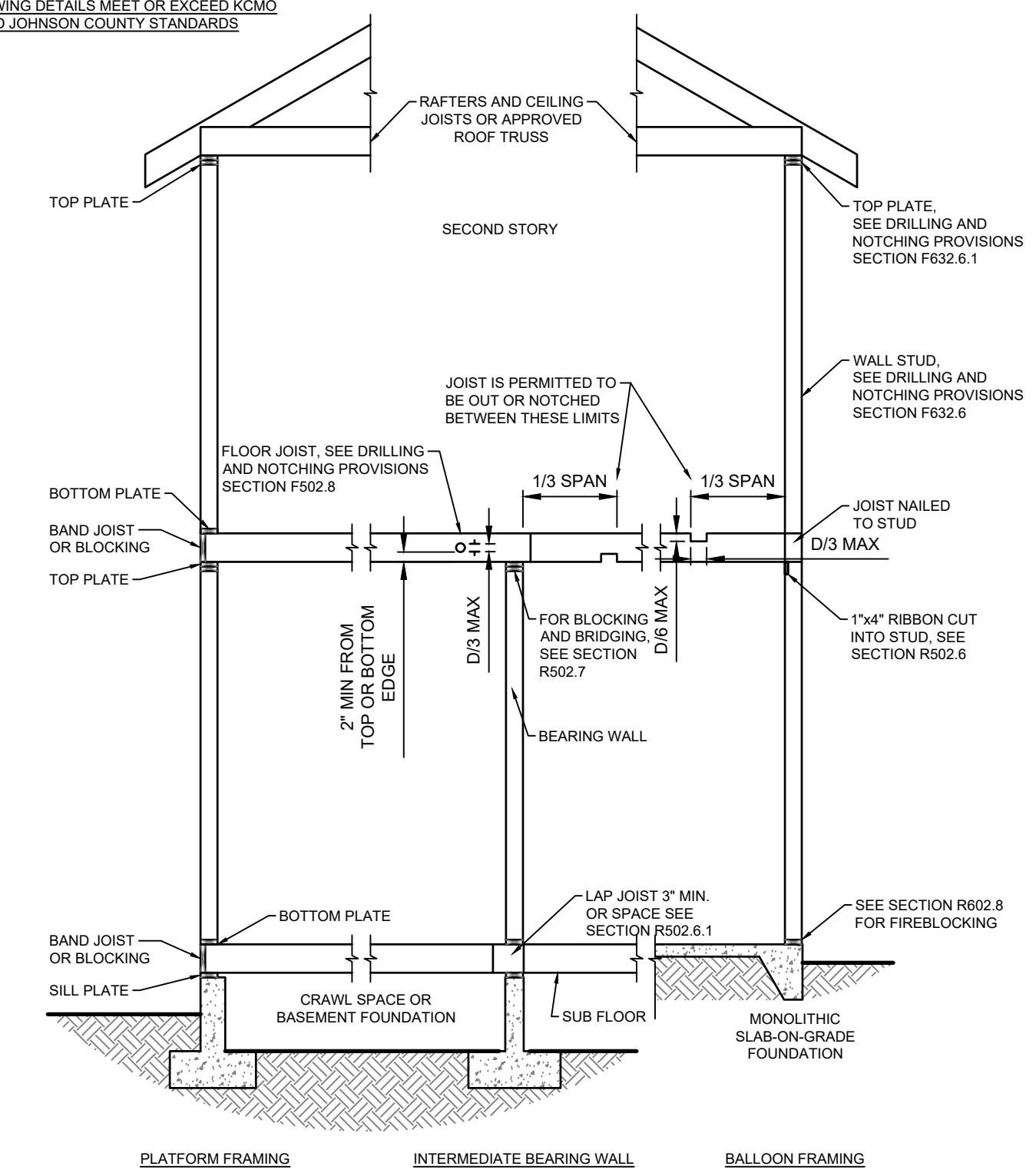
MINIMUM LENGTH OF BRACED WALL PANELS TABLE R602.10.5 (PARTIAL). Table with columns for METHOD, WALL HEIGHT, 8 FEET, 9 FEET, 10 FEET.

BRACED METHODS TABLE R602.10.4 (PARTIAL). Table with columns for METHODS, MATERIAL, MINIMUM THICKNESS, CONNECTION CRITERIA, FASTENERS, SPACING.

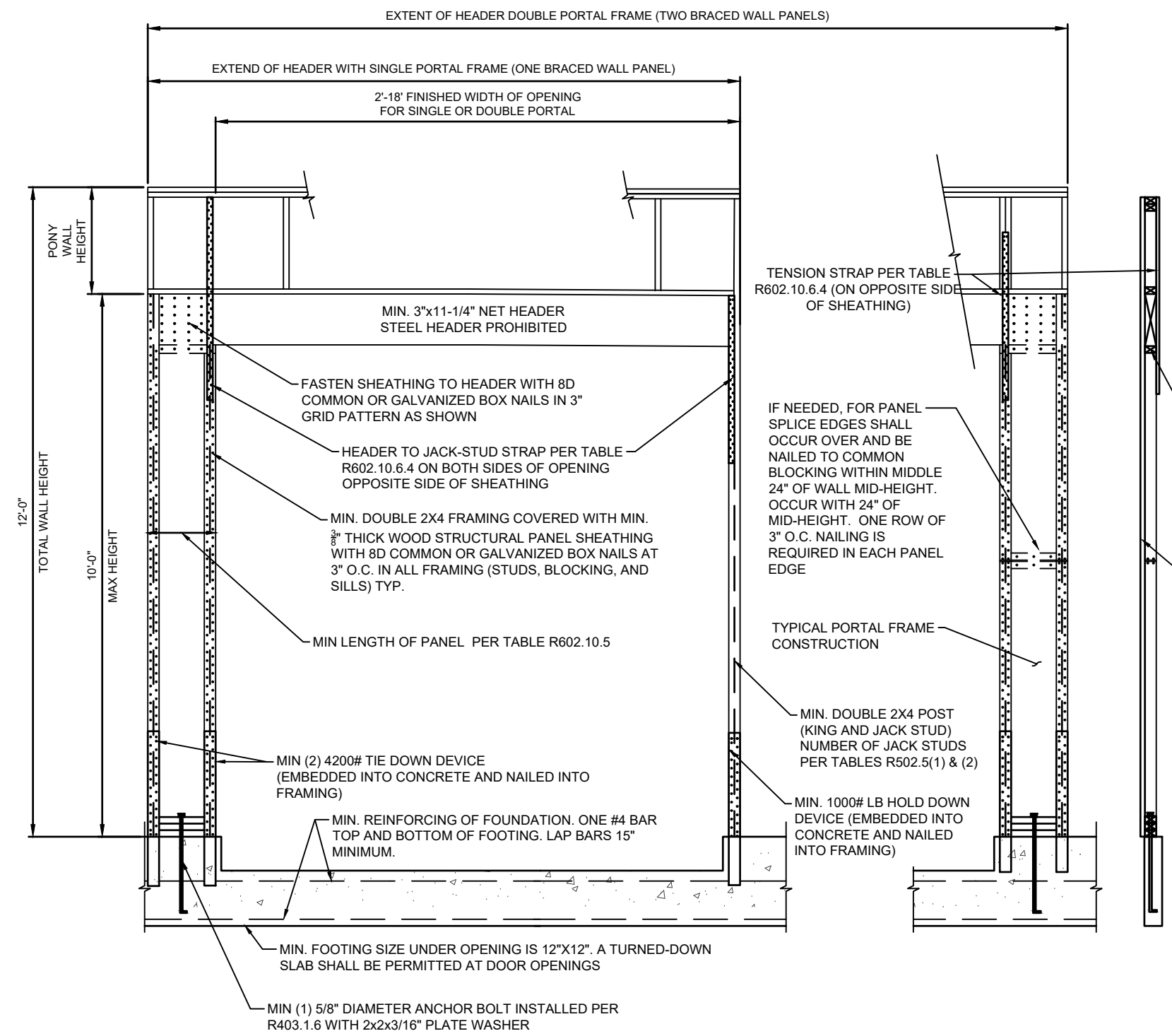




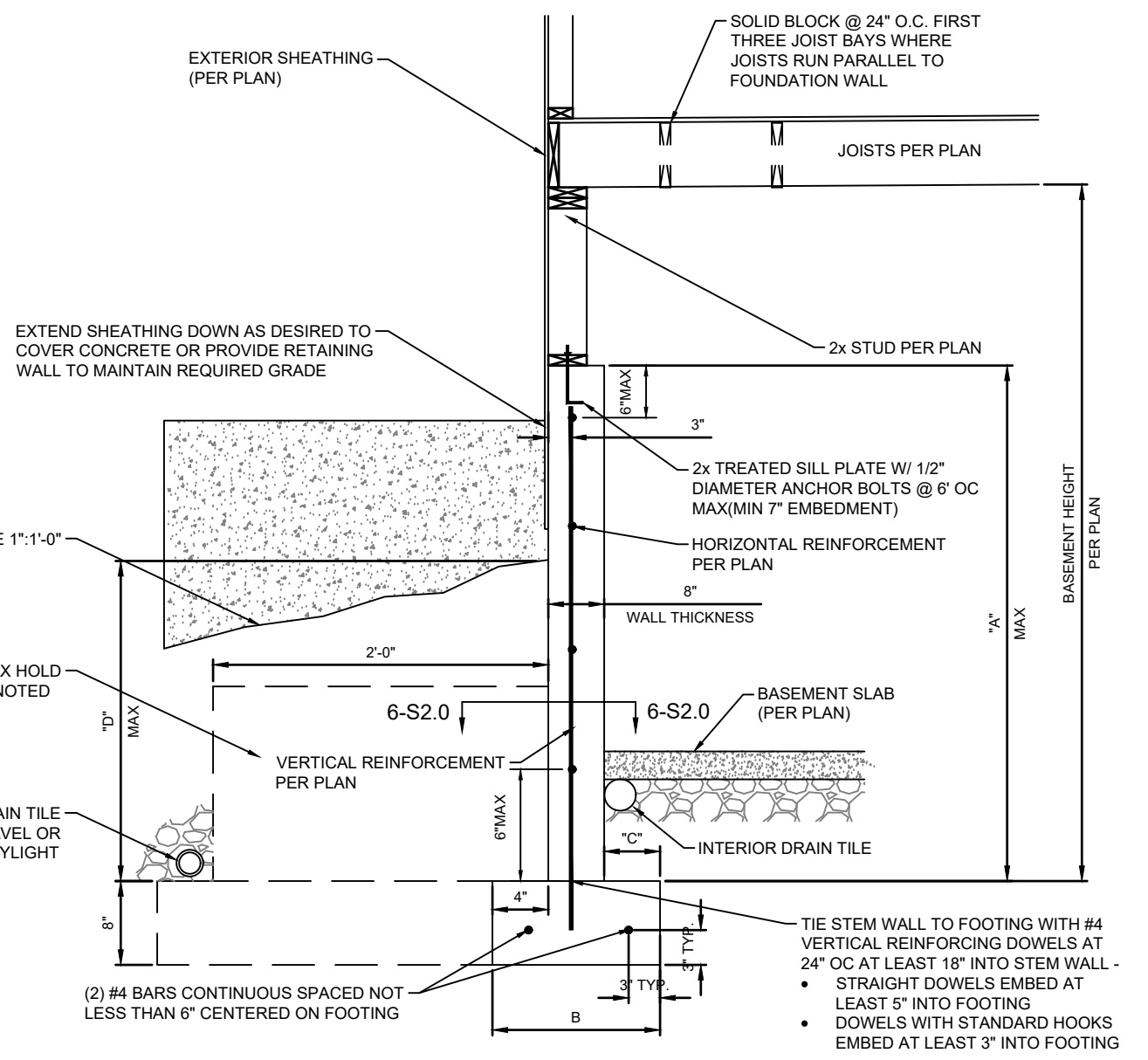
THE FOLLOWING DETAILS MEET OR EXCEED KCMO CPD-US, AND JOHNSON COUNTY STANDARDS



11 S2.0 TYPICAL WALL, FLOOR AND ROOF FRAMING (IRC FIGURE R602.3(1)) N.T.S.



12 S2.0 PORTALS WITH HOLD DOWNS (METHOD PFH) IRC FIGURE R602.10.6.2 N.T.S.

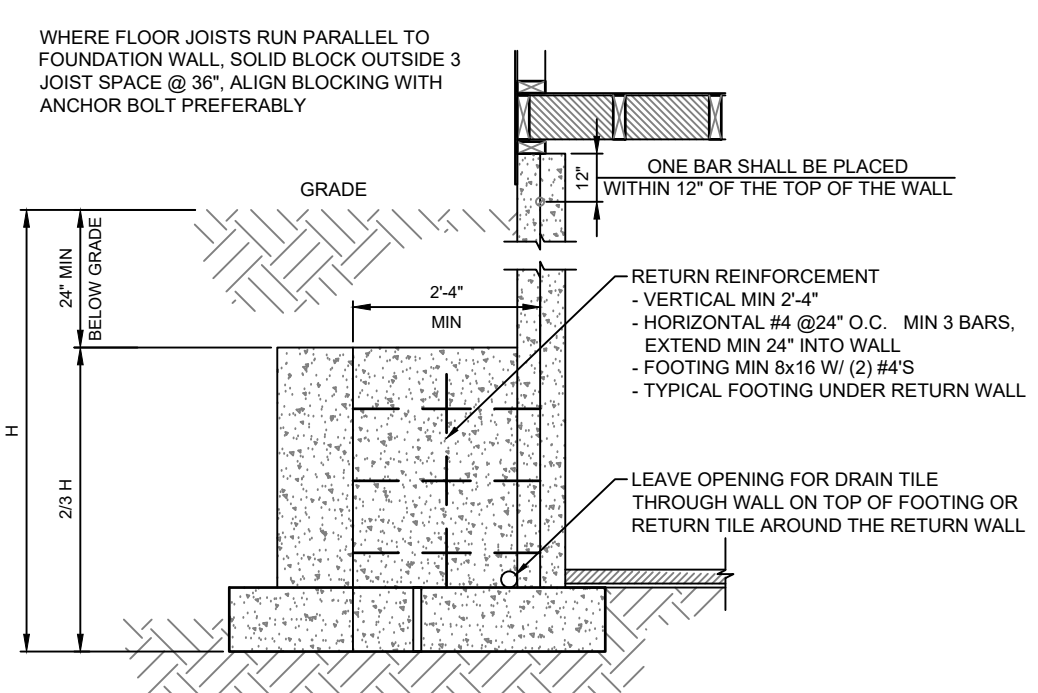


DIMENSIONS SHOWN ARE FOR THE MAXIMUM UNINTERRUPTED WALL PANEL LENGTH BEFORE DEAD-MAN INSTALLATION. A MINIMUM 2' RETURN OR OFFSET IN THE FOUNDATION WALL SHALL SUBSTITUTE AS DEAD-MAN AND/OR BREAK IN THE WALL PANEL LENGTH.

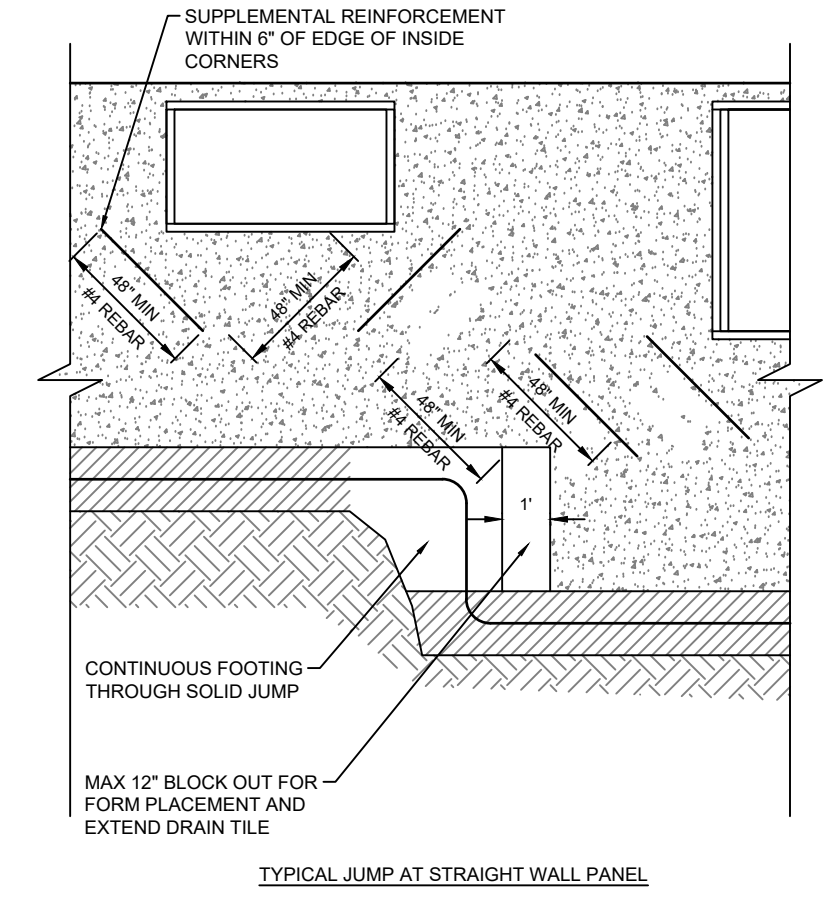
VERTICAL REINFORCING STEEL TO EXTEND TO WITHIN 6" OF TOP WALL. MINIMUM (1) #4 HORIZONTAL BAR WITHIN 12" OF TOP AND BOTTOM OF WALL.

THE BASEMENT SLAB IS AN INTEGRAL PART OF THE "UNRESTRAINED" FOUNDATION WALL DESIGN. THEREFORE IF THE WALL IS BACKFILLED PRIOR TO PLACEMENT OF THE BASEMENT SLAB, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY BRACING THE WALL UNTIL THE BASEMENT SLAB HAS BEEN PLACED.

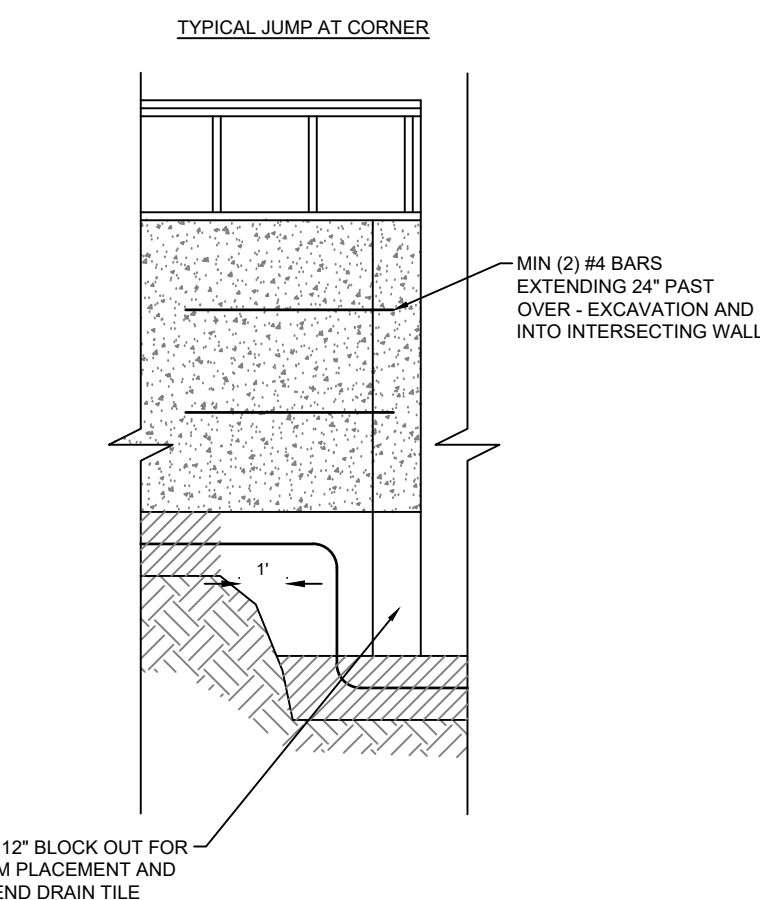
13 S2.0 TYPICAL "UNRESTRAINED" FOUNDATION WALL DETAIL N.T.S.



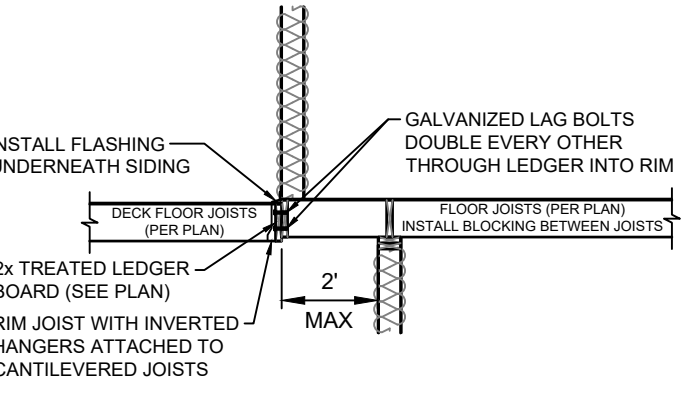
7 S2.0 TYPICAL DEAD MAN SECTION N.T.S.



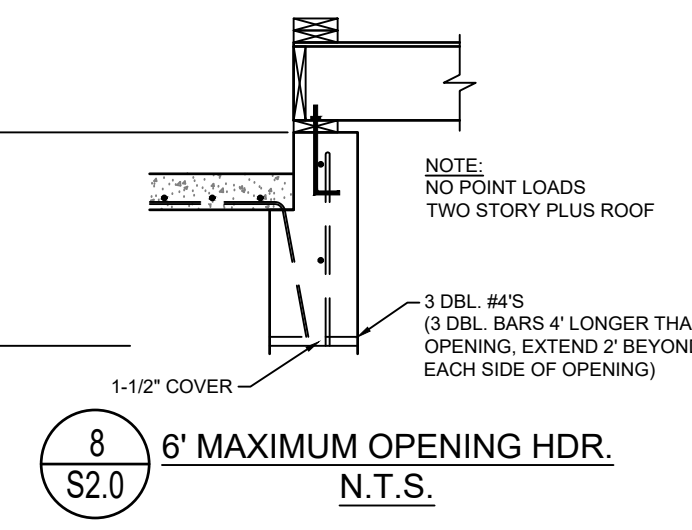
6 S2.0 FOUNDATION WALL JUMP DETAIL N.T.S.



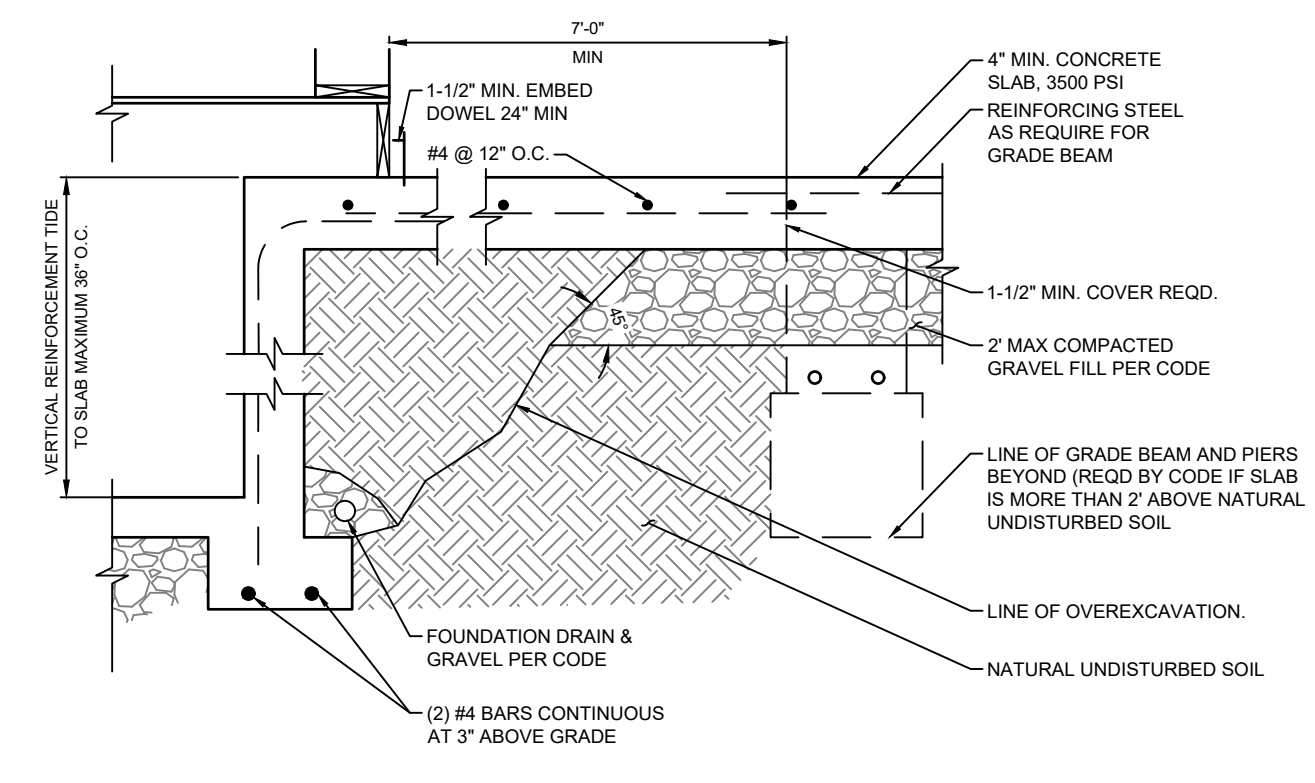
5 S2.0 FOUNDATION WALL JUMP DETAIL N.T.S.



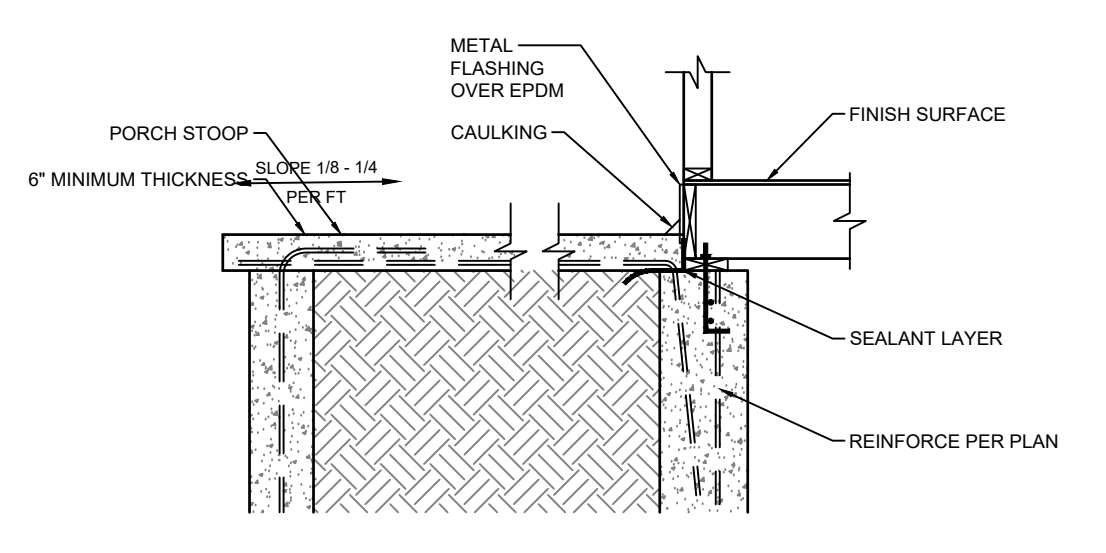
10 S2.0 TYPICAL CANTILEVER FRAMING WITH DECK ATTACHMENT N.T.S.



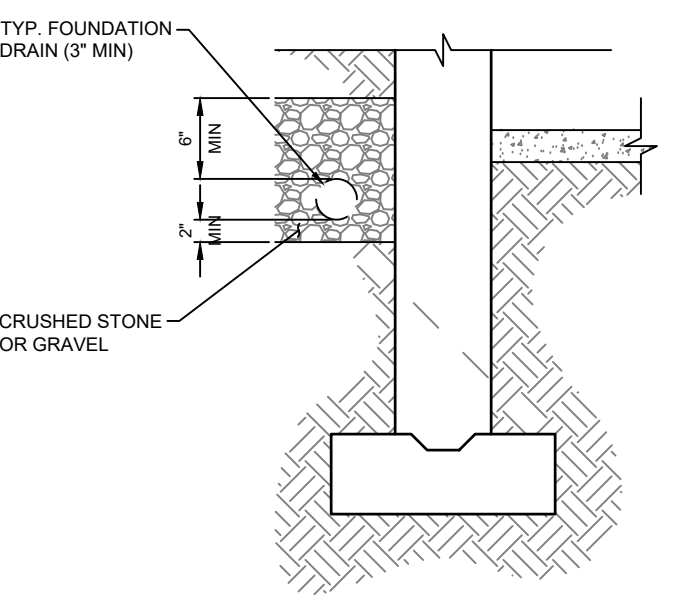
8 S2.0 6' MAXIMUM OPENING HDR. N.T.S.



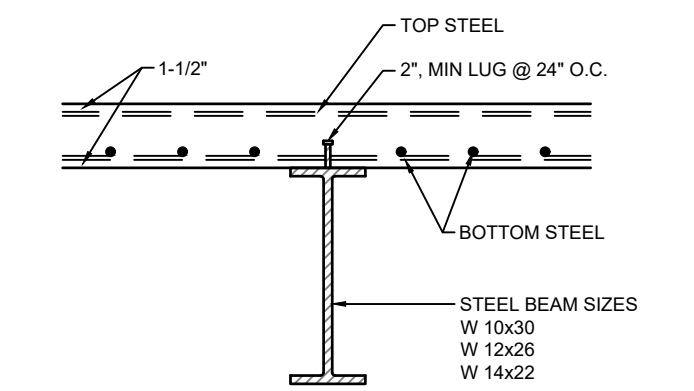
3 S2.0 TYPICAL FOOTING/FOUNDATION WALL/STANDARD SLAB AT MAX 4' OVERDIG N.T.S.



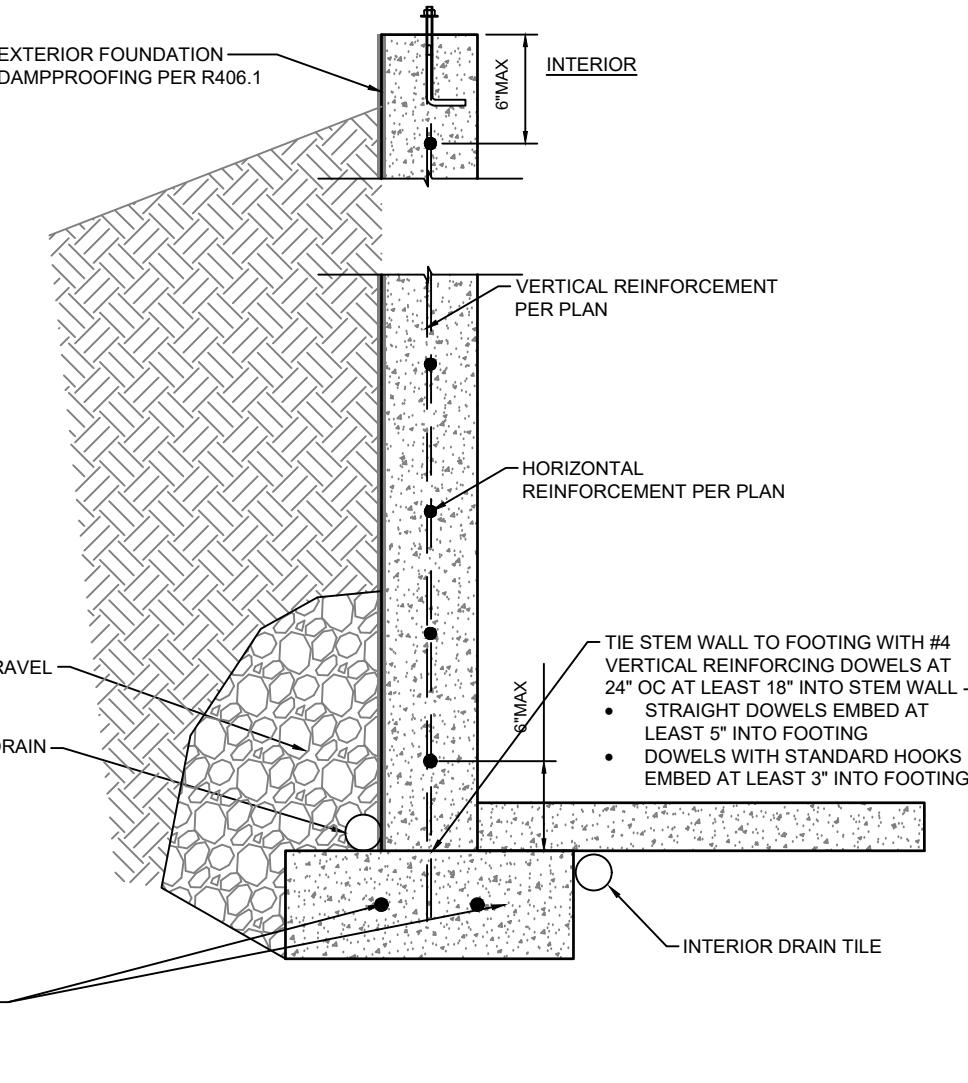
2 S2.0 STANDARD PORCH SLAB N.T.S.



1 S2.0 FOUNDATION DRAIN DETAIL & RAISED SLAB N.T.S.

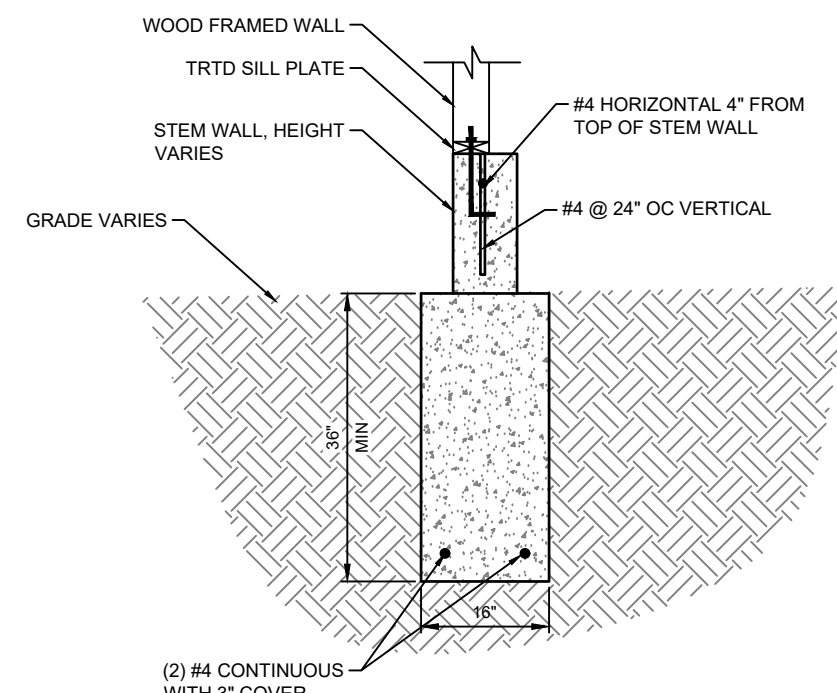


9 S2.0 SLAB OVER BEAM N.T.S.

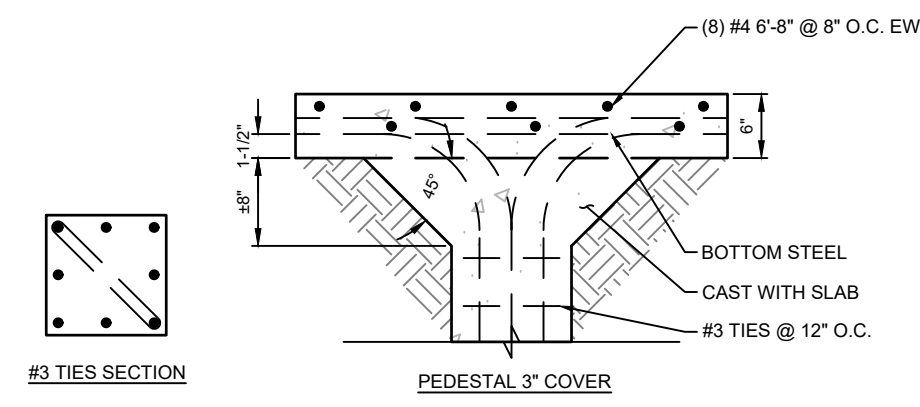


4 S2.0 TYPICAL WALL SECTION DETAIL N.T.S.

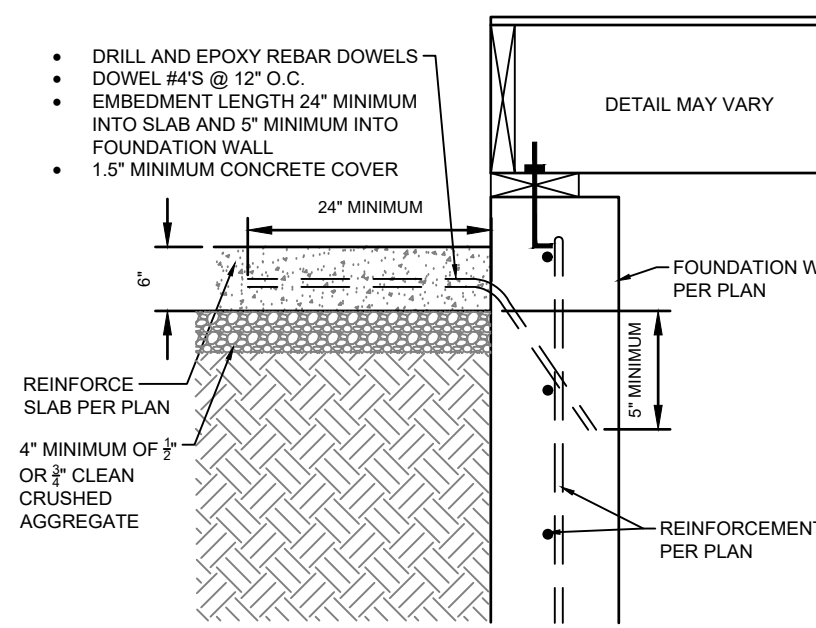
THE FOLLOWING DETAILS MEET OR EXCEED KCMO  
CPD-DS, AND JOHNSON COUNTY STANDARDS



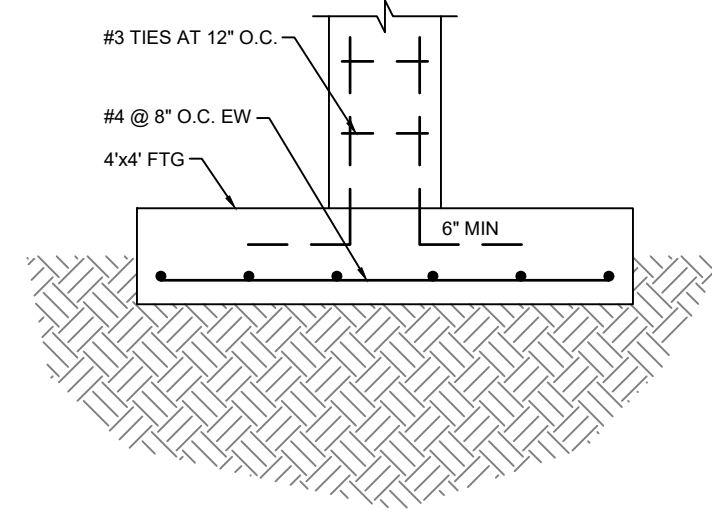
10  
S3.0 TRENCH FOOTING WITH STEM WALL  
N.T.S.



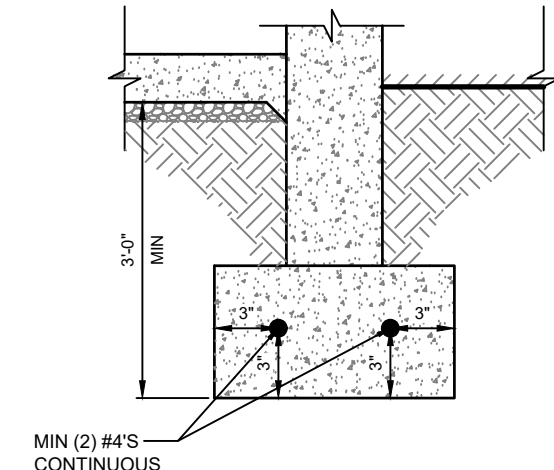
9  
S3.0 SLAB AT PEDESTAL  
N.T.S.



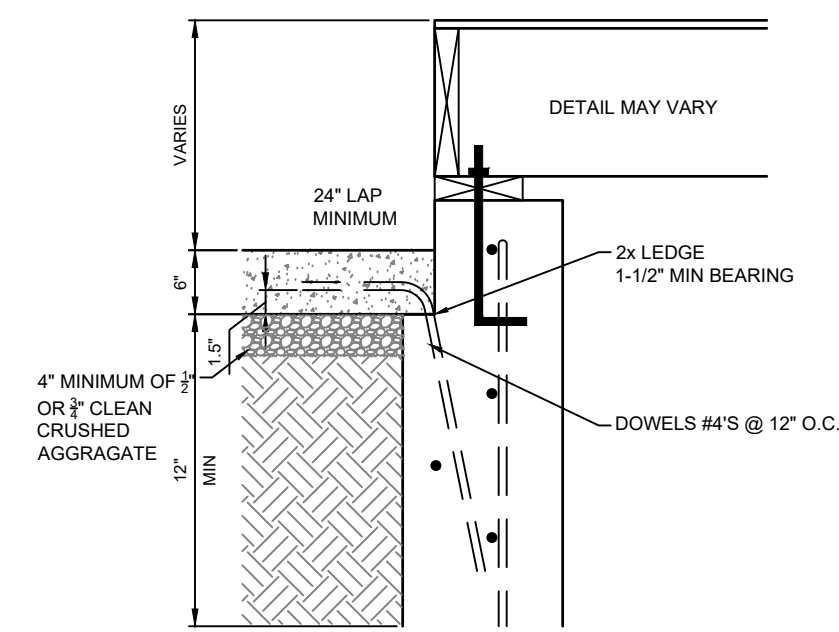
8  
S3.0 ALTERNATE SLAB AT WALL  
N.T.S.



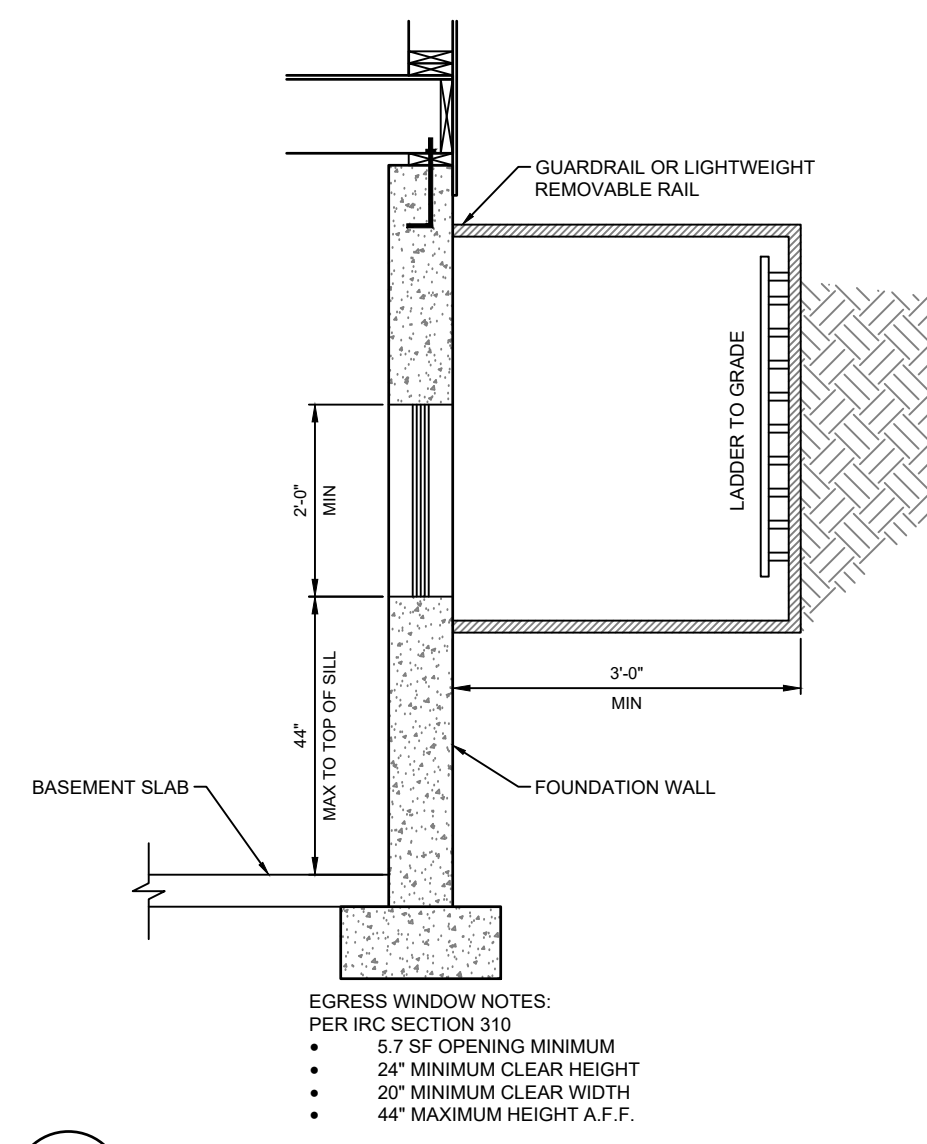
7  
S3.0 PEDESTAL AT FOOTING  
N.T.S.



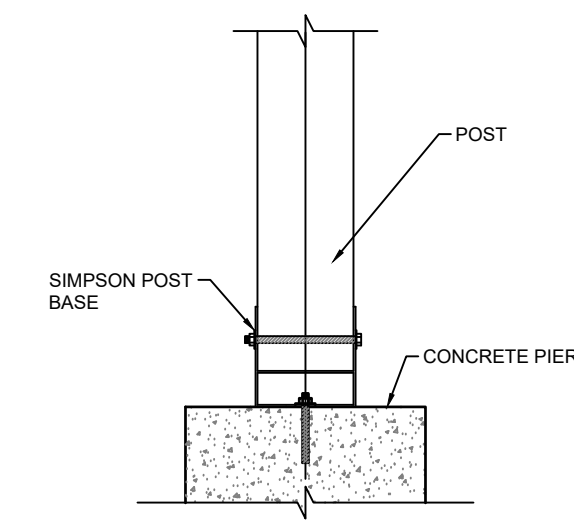
6  
S3.0 FOOTING DETAIL  
N.T.S.



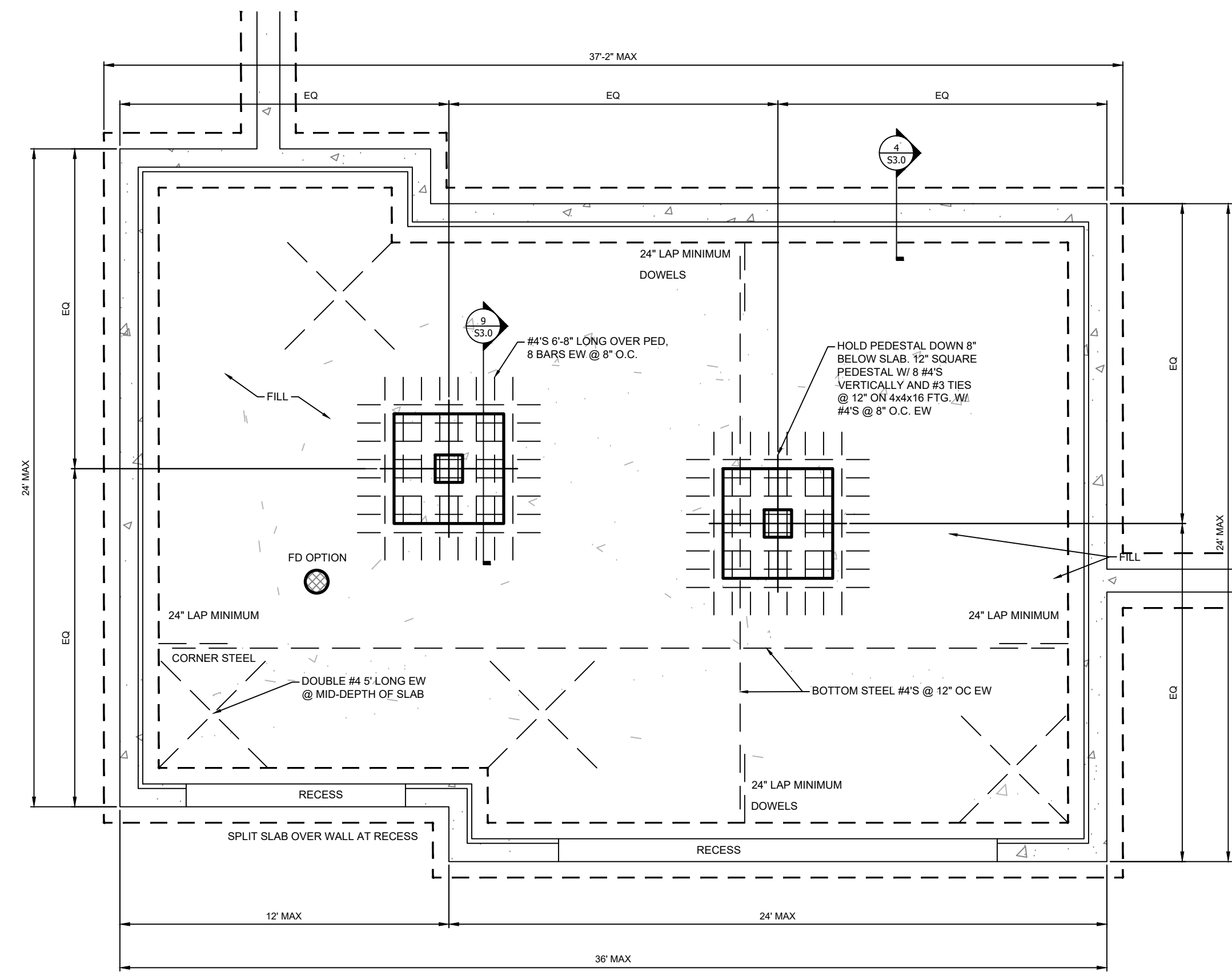
4  
S3.0 SLAB AT WALL  
N.T.S.



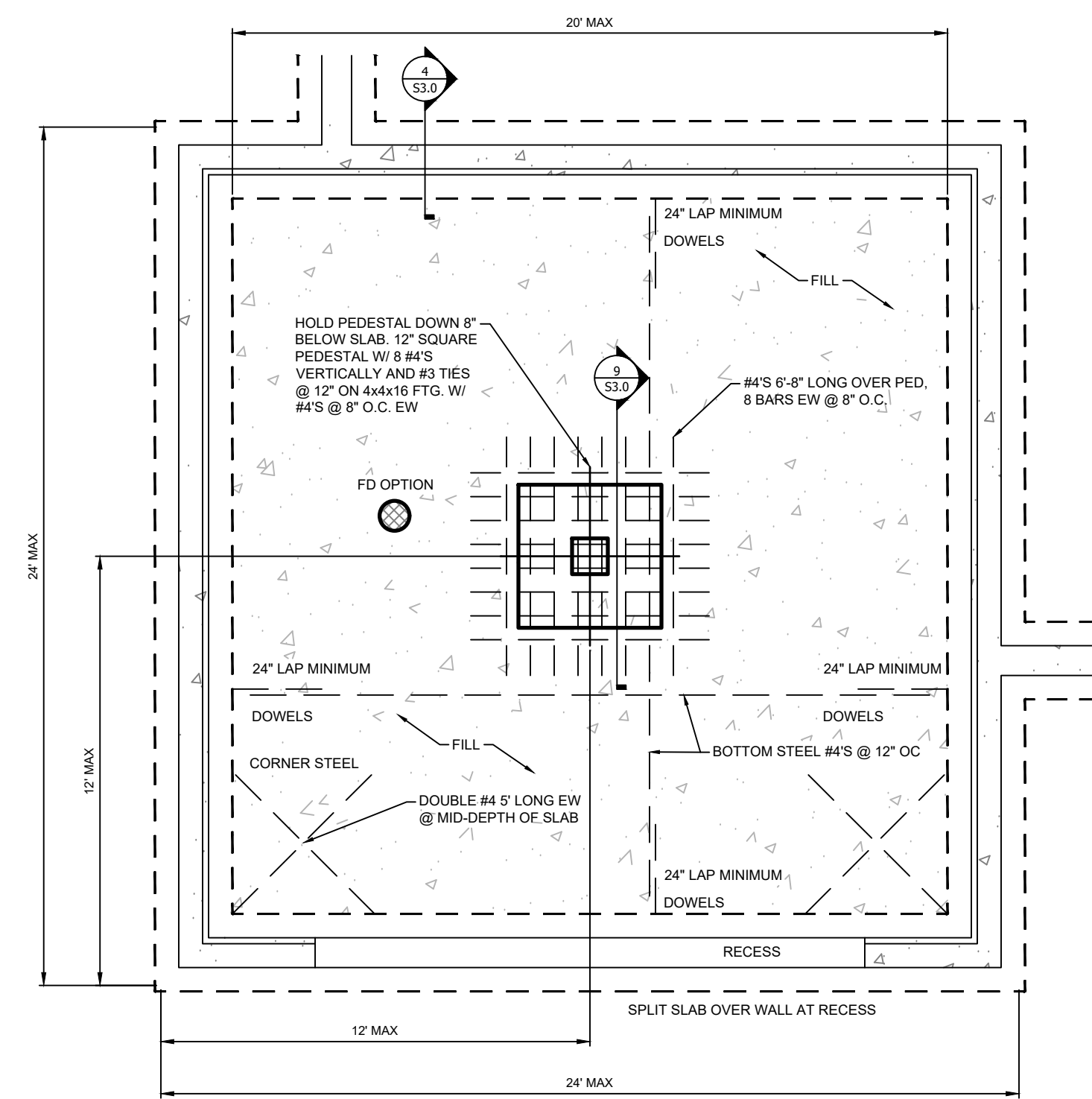
3  
S3.0 TYPICAL EGRESS WINDOW SECTION DETAIL  
N.T.S.



2  
S3.0 POST BASE DETAIL  
N.T.S.



5  
S3.0 GARAGE SLAB ON FILL  
N.T.S.



1  
S3.0 GARAGE SLAB ON FILL  
N.T.S.



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FOUNDATION DETAILS

SHEET #

S3.0