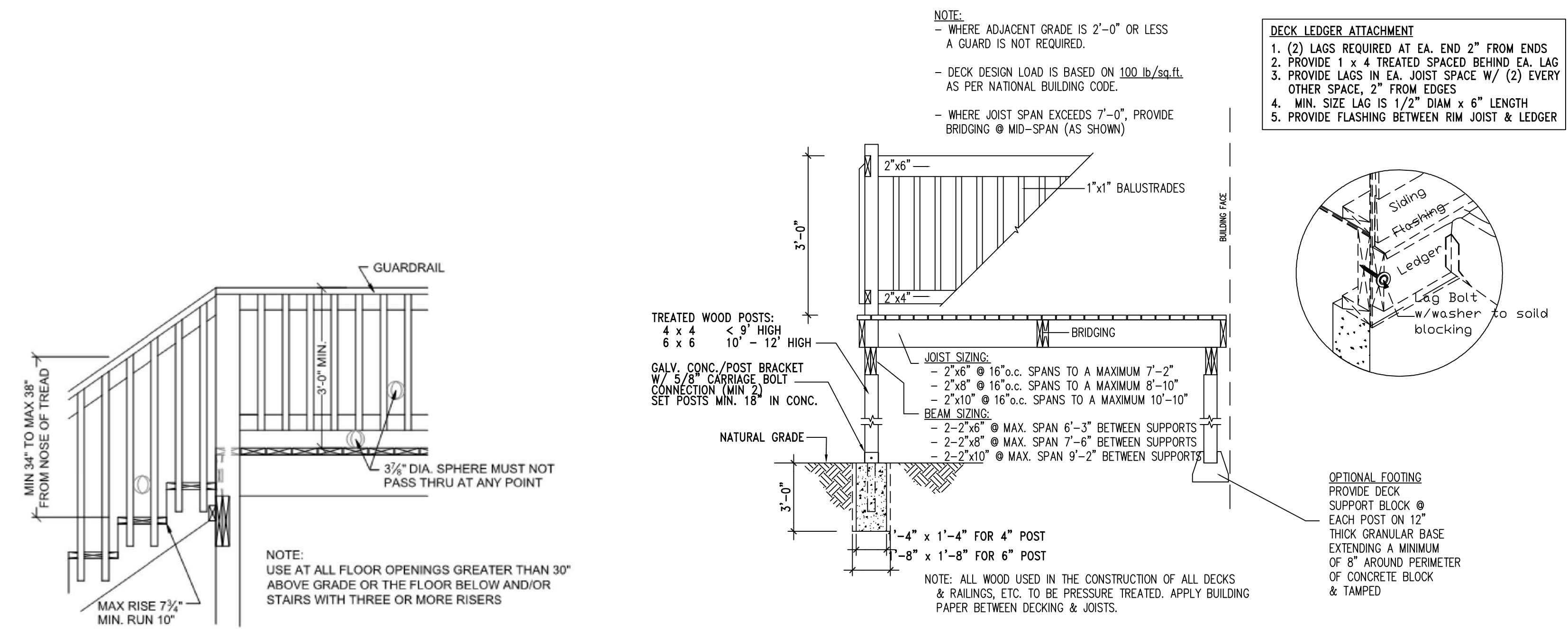
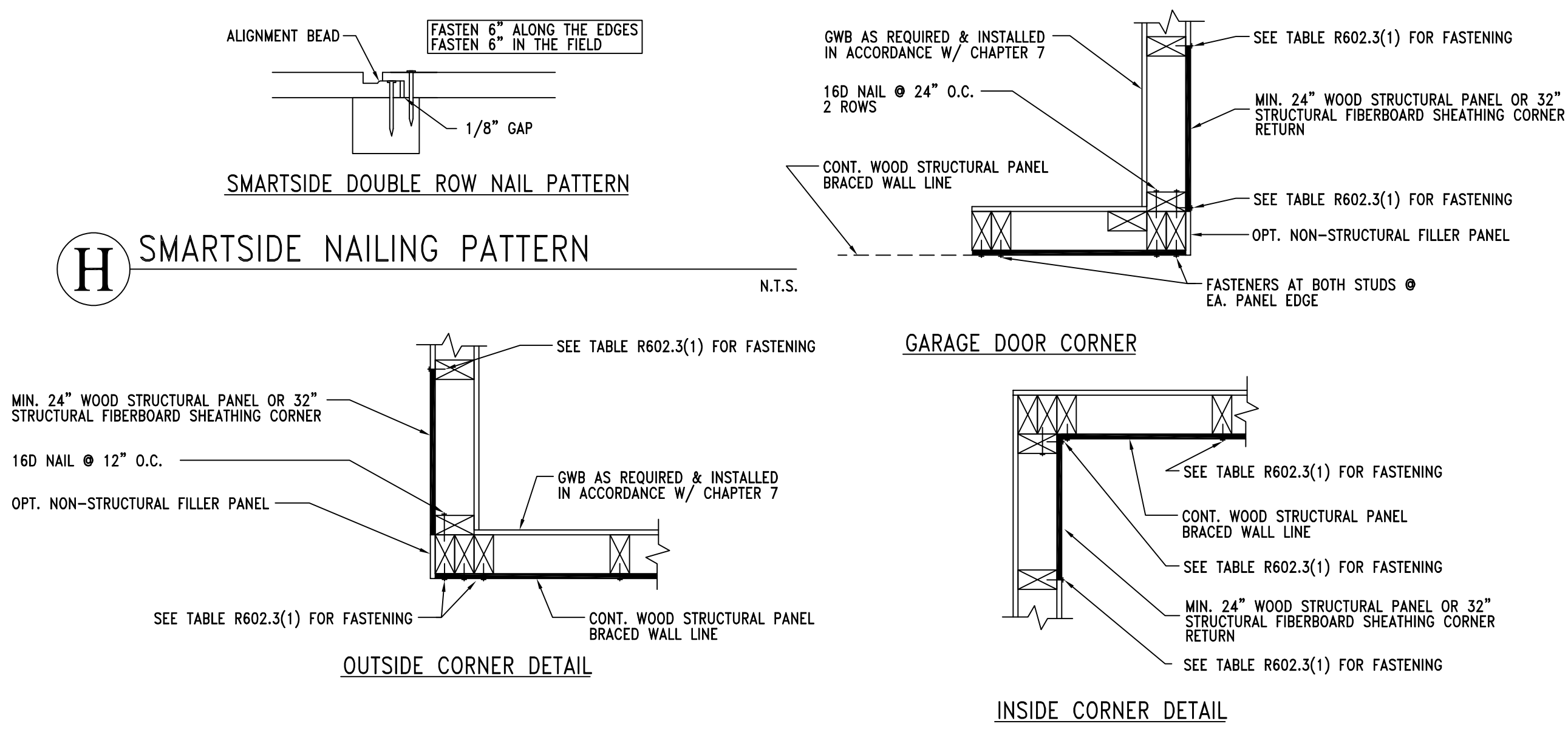


J GABLE END FRAMING REQUIREMENTS
N.T.S.



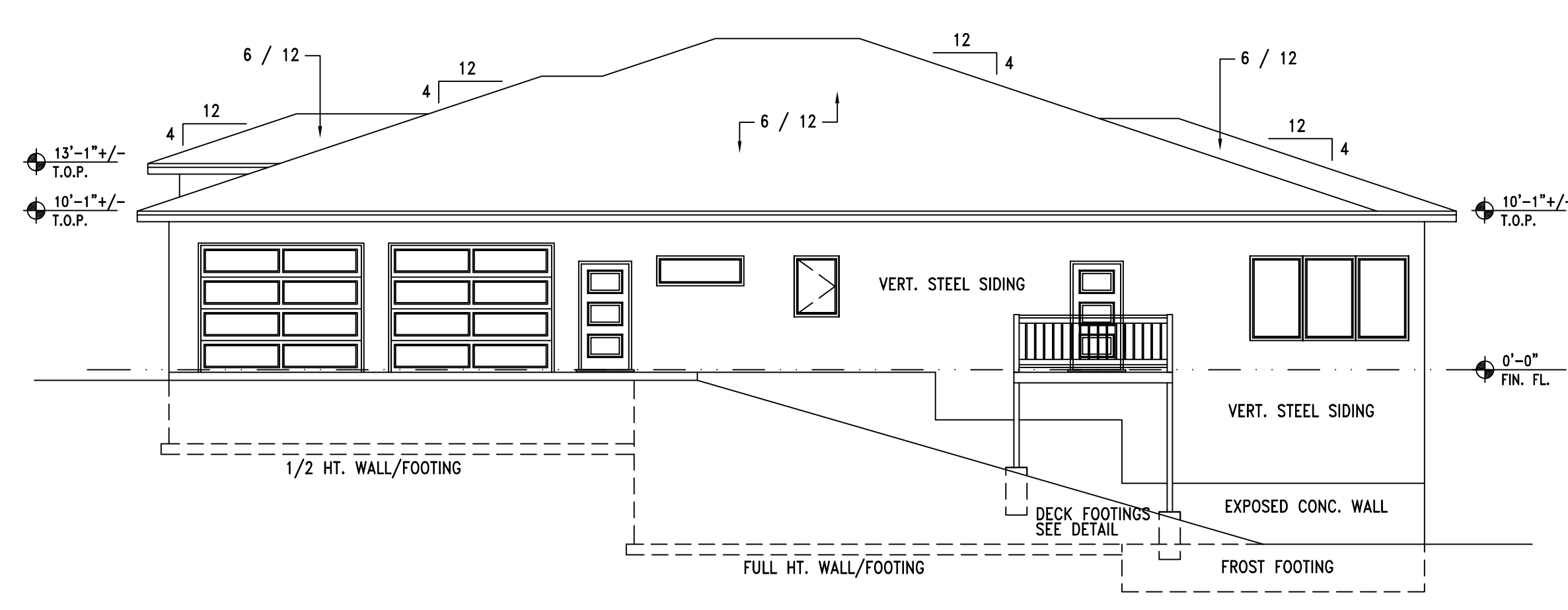
G DECK RAILING REQUIREMENTS
N.T.S.

F TYPICAL RAISED WOOD DECK FRAMING
N.T.S.

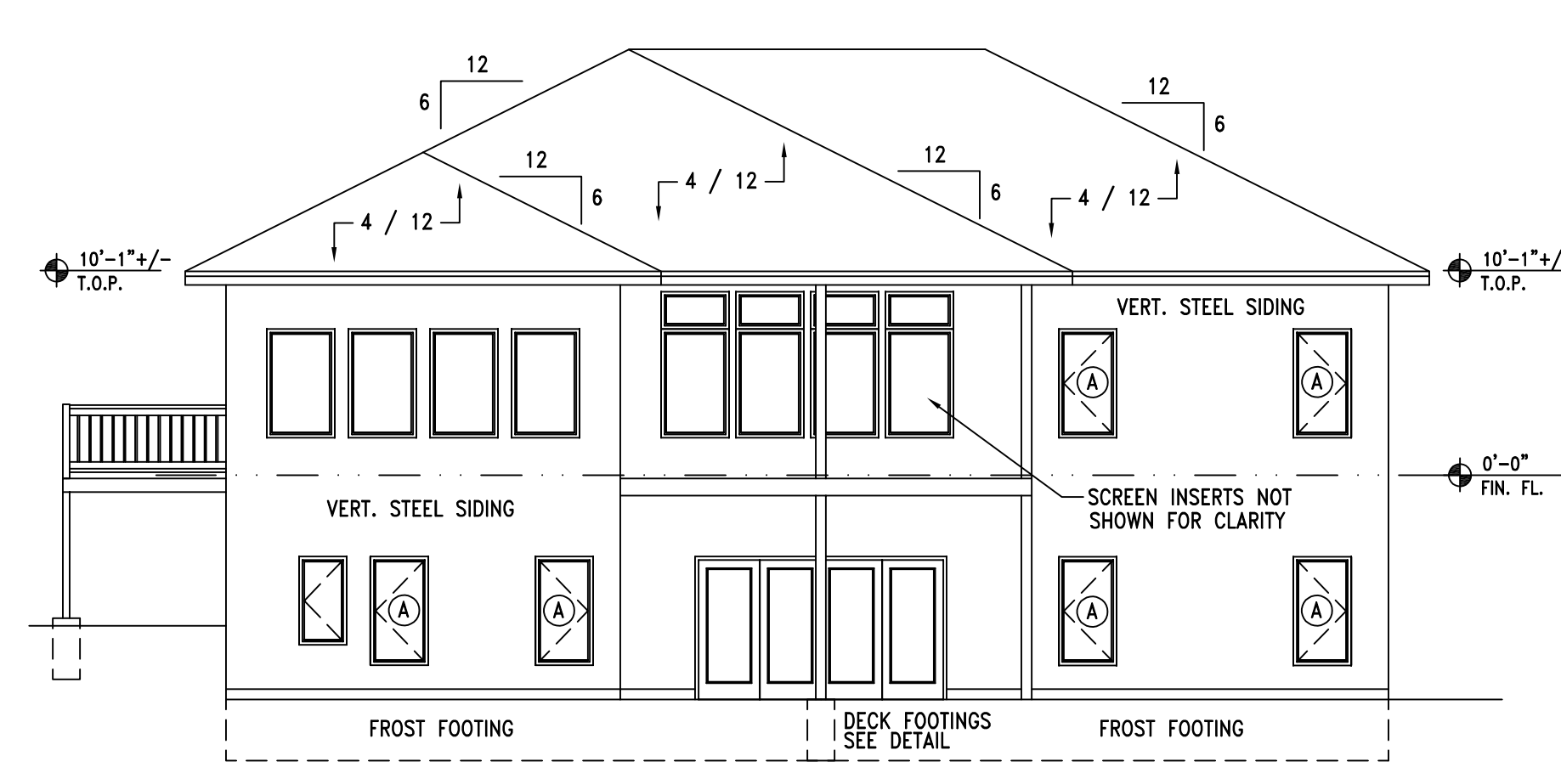


H SMARTSIDE NAILING PATTERN
N.T.S.

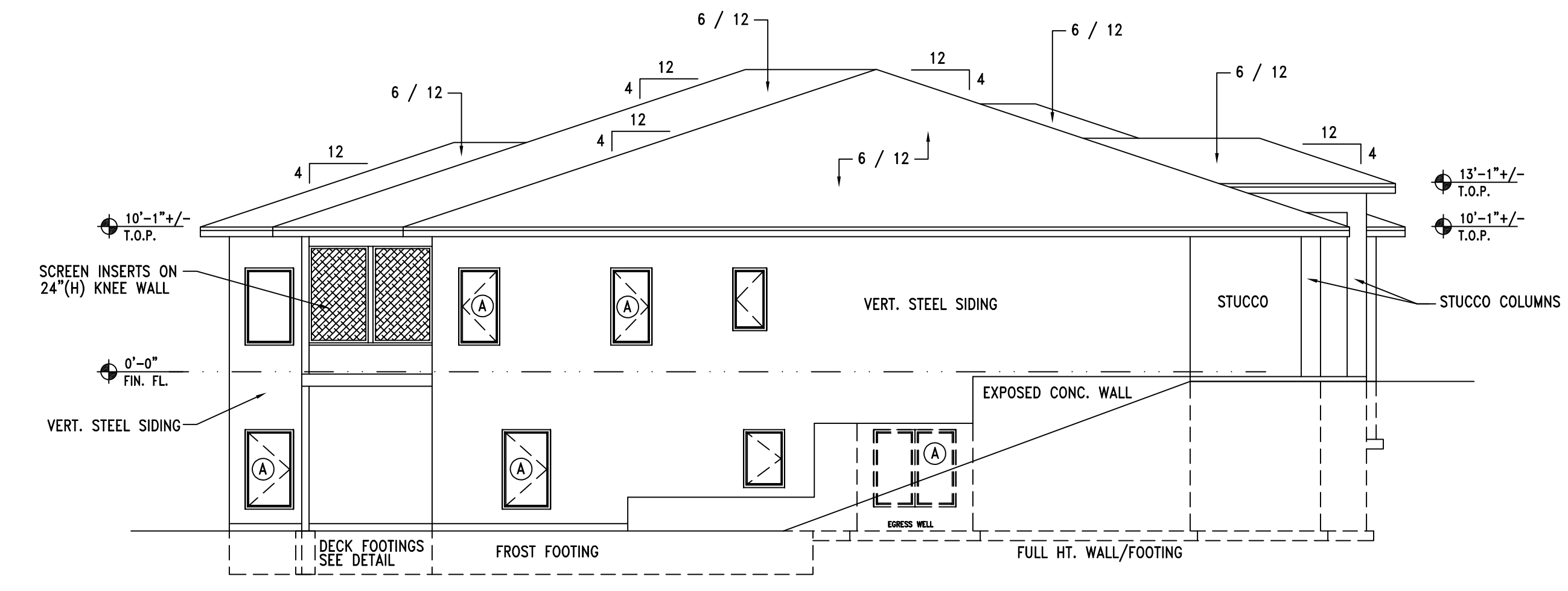
E CS-WSP CORNER FRAMING DETAILS
N.T.S.



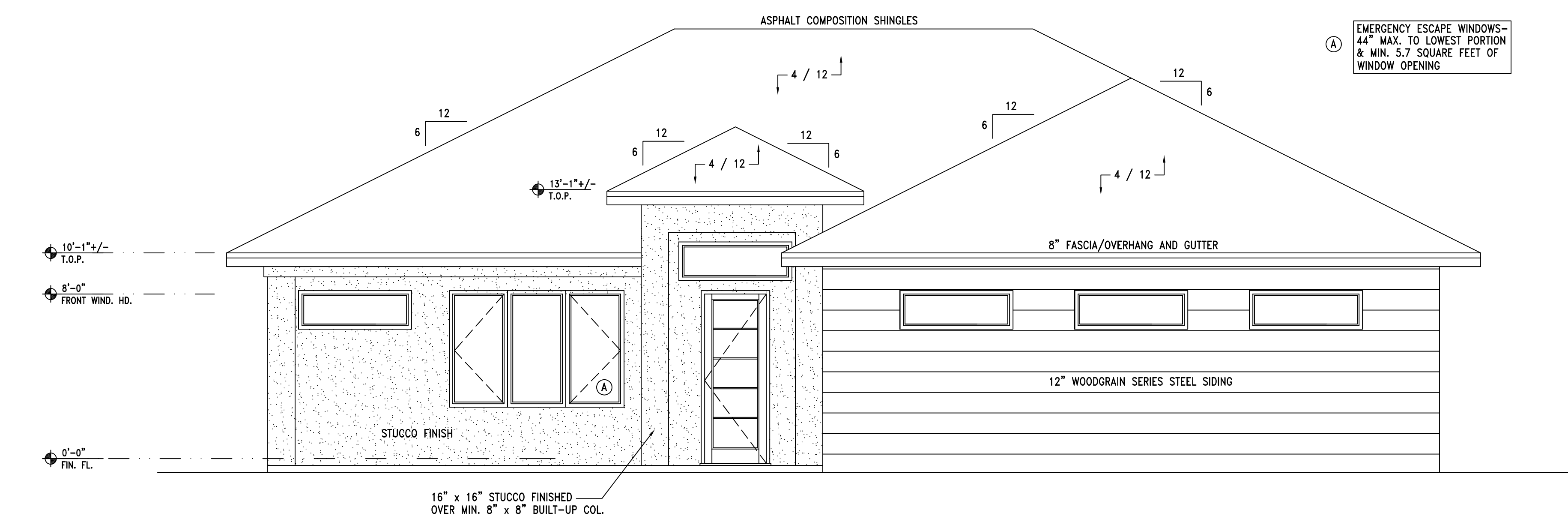
D SIDE ELEVATION
1/8" = 1'-0"



C REAR ELEVATION
1/8" = 1'-0"



B SIDE ELEVATION
1/8" = 1'-0"



A FRONT ELEVATION
1/4" = 1'-0"

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
08/06/2021

BOYER RESIDENCE
LEE'S SUMMIT, MISSOURI 64081
725 SW 15TH CIRCLE

DATE:	07-22-2021
SUBDIVISION:	
PLOT #:	
REVISION	DATE

ISSUED: PERMIT/CONSTRUCTION

BRACED WALL LINE SCHEDULE			
WALL LINE	REQ'D LENGTH	PROVIDED LENGTH	END CONDITION
M A I N F L O O R			
A	8.33'	16.00'	3-3
B	8.41'	16.00'	3-3
C	4.95'	10.50'	3-3
D	5.38'	8.00'	3-3
1	10.88'	16.00'	3-3
2	10.05'	16.00'	3-3
3	10.11'	17.25'	3-2
L O W E R F L O O R			
A	8.55'	16.00'	3-3

- CS-WSP PANELS: DISTANCE FROM END OF BRACED WALL LINE TO FIRST BRACED WALL PANEL CANNOT EXCEED A COMBINED TOTAL OF 10' PER R602.10.2.2
- WOOD STRUCTURAL PANELS: MIN. 48" AND COVER 3 STUDS FOR FRAMING AT 16" O.C. OR 2 STUDS FOR 24" O.C.
- CS-WSP PANELS: MIN. 2" PANELS AT BOTH CORNERS WITHOUT USING HOLD DOWNS PER R602.10.4.4 AND MAX. 12'-6" FROM CORNER
- CS-WSP PANELS: MIN PANELS LENGTH ADJACENT TO AN OPENING FOR 9" PLATE = 27" PER R602.10.4.2
- METH. GB SHALL USE MIN. 5d COOLER NAILS OR #6 SCREWS ATTACHED 7" O.C. ALONG EDGES & IN THE FIELD OF PANEL

C BRACED WALL CALCULATIONS

N.T.S.

2012 INTERNATIONAL ENERGY CONSERVATION CODE (TABLE R402.1.1)	
DOORS & WINDOWS:	U-0.35 MAX (HEAT GAIN MAX 0.25)
SKYLIGHTS:	U-0.55 MAX
ATTIC CEILINGS:	R-49 MIN
WOOD FRAME WALLS:	20 OR 13 + 5 MIN.
FLOOR (OVER UNHEATED):	R-19 MIN
SLAB ON GRADE:	R-10 FOR 24" IN
FUEL FIRED FURNACE:	90% AFUE MIN.
ELECTRIC FURNACE:	NO MINIMUM
COOLING SYSTEM:	13 SEER MIN.
WATER HEATER:	
GAS FIRED STORAGE:	0.67 EF MIN
GAS FIRED INSTANT:	0.62 EF MIN
ELECTRIC STORAGE:	0.97 EF MIN
ELECTRIC INSTANT:	0.93 EF MIN

AN ENERGY EFFICIENT CERTIFICATE IS REQUIRED TO BE POSTED IN OR ON THE ELECTRICAL PANEL BEFORE FINAL INSPECTION. THE CERTIFICATE WILL BE PROVIDED WITH ALL NEW RESIDENTIAL PERMITS. IT IS THE PERMIT HOLDER/CONTRACTOR'S RESPONSIBILITY TO ENSURE THE CERTIFICATE HAS ACCURATE INFORMATION & IS POSTED BEFORE FINAL INSPECTION. OWNER/CONTRACTOR IS RESPONSIBLE FOR MEETING THE PRESCRIPTIVE REQUIREMENTS OF IRC CHAPTER 11 UNLESS A HER INDEX ANALYSIS FOR PERFORMANCE COMPLIANCE BASED ON THE PLANS IS SUBMITTED TO THE AHJ FOR APPROVAL.

B BRACED WALL CALCULATIONS

N.T.S.

GENERAL NOTES AND REQUIREMENTS

DOORS AND WINDOWS:

- ALL GLAZING WITHIN 12" OF THE FINISHED FLOOR, ADJACENT TO DOORS (<24") AND WITHIN DOORS, ABOVE BATHTUBS TO BE SAFETY TYPE GLASS AND LABELED SUCH & IN COMPLIANCE W/ SECTION 308 OF THE IRC
- SHOWER DOORS SHALL HAVE SAFETY GLAZING. HINGED SHOWER DOORS SHALL SWING OUTWARD
- TYPE-X 5/8" GB REQUIRED ON GARAGE CEILING BELOW LIVING AREAS

LIGHT AND VENTILATION:

- PROVIDE STAIRWAY ILLUMINATION PER R303.7.9
- CABLE VENT & MUSHROOM VENTS TO PROVIDE A MIN. OF 10 S.F. NET-FREE OF ATTIC VENTILATION
- FURNACES ENCLOSED IN A ROOM LESS THAN 100 S.F. SHALL BE PROVIDED W/ A MEANS OF COMBUSTION MAKE-UP AIR AS DETERMINED/CALCULATED AND PRESCRIBED BY MECH. CONTRACTOR
- VENTILATE KITCHENS AND LAUNDRY ROOMS PER R303.3
- PROVIDE MIN. 16" x 10" SOFFIT VENTS ALONG EAVE SPACED EVENLY W/ NO MORE THAN 8'-0" O.C.

GYPSSUM BOARD:

- G.B. APPLIED TO CEILING SHALL BE 16" WHEN FRAMING MEMBERS ARE 16" O.C. OR 15/8" WHEN MEMBERS ARE 24" O.C. OR USE 1/2" SAG-RESISTANT GYP. CEILING BOARD

MECHANICAL SYSTEMS

- FURNACE & WATER HEATER SHALL BE ON 18" PLATFORMS IF PLACED IN A GARAGE OR ROOM W/ DIRECT ACCESS TO A GARAGE
- PROVIDE MIN. 78% AFUE FOR WEATHERIZED GAS HEATING EQUIP. BOX FOR NON-WEATHERIZED
- PROVIDE MIN. 13 SEER FOR AIR CONDITIONING EQUIPMENT
- SUPPLY AND RETURN DUCTS SHALL BE INSULATED TO MIN. R-8
- MECHANICAL VENTILATION, RECIRCULATION OF AIR-EXHAUST AIR FROM BATHROOMS & TOILET SHALL NOT BE RECIRCULATED WITHIN A RESIDENCE OR CIRCULATED TO ANOTHER DWELLING UNIT & SHALL BE EXHAUSTED DIRECTLY TO THE OUTDOORS. EXHAUST AIR FROM BATHROOMS, TOILET ROOMS & KITCHENS SHALL NOT DISCHARGE INTO AN ATTIC, CRAWL SPACE OR OTHER AREA INSIDE THE BUILDING.
- MECHANICAL VENTILATION, LOCAL EXHAUST RATES-BATHROOMS, TOILET ROOMS MECHANICAL EXHAUST CAPACITY OF 50 CFM INTERMITTENT OR 20 CFM CONTINUOUS

ELECTRICAL SYSTEMS

- PROVIDE UTILITY GROUND ENCASED IN CONCRETE FOOTING IN ACCORDANCE WITH IRC SECTION 3608.1
- ALL ELECTRICAL CONDUCTORS SHALL BE COPPER
- RECEPT. IN THE FOLLOWING LOCATIONS SHALL BE GFCI PROTECTED: BEDROOM, KITCHEN (W/IN 6 FEET OF SINK), GARAGE, SHED, EXTERIOR, UNFINISHED BASEMENT & HEATED FLOORS
- ALL BRANCH CIRCUITS THAT SUPPLY 120-V, SINGLE PHASE, 15 & 20 AMP OUTLETS INSTALLED IN: FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, REC ROOMS, CLOSETS, HALLWAYS & SIM. ROOMS SHALL BE PROTECTED BY A COMBINATION TYPE ARC-FAULT CIRCUIT INTERRUPTER INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT
- ALL 15 & 20-A RECEPT. SHALL BE LISTED TAMPER-RESISTANT. EXCEPTION: RECEPTACLES IN THE FOLLOWING LOCATIONS SHALL NOT BE REQUIRED TAMPER-RESISTANT:
 - RECEPTACLES LOCATED MORE THAN 5.5 FEET AFF
 - WHERE SUCH RECEPTACLES ARE LOCATED IN SPACES DEDICATED FOR THE APPLIANCE SERVED & UNDER CONDITIONS OF NORMAL USE, THE APPLIANCES ARE NOT APPLIED MOVED. APPLIANCES TO BE CORD-IN-PLUG CONNECTED TO RECEPT.

- RECEPTACLE OUTLETS-SPACINGS-RECEPTACLES SHALL BE INSTALLED SO THAT NO POINT IS MEASURED HOR. ALONG THE FLOOR OF ANY WALL SPACE MORE THAN 6 FEET FROM A RECEPTACLE
- TAMPER RESISTANT RECEPTACLES SHALL BE LOCATED NO MORE THAN 5.5 FEET ABOVE THE FINISHED FLOOR
- ARC-FAULT CIRCUIT INTERRUPTER PROTECTION: BRANCH CIRCUITS THAT SUPPLY 12-VOLT, SINGLE PHASE, 15 AND 20-AMPERE OUTLETS INSTALLED IN KITCHENS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, DENS, BEDROOMS, SUNROOMS, RECREATIONS ROOMS, CLOSETS, HALLWAYS, LAUNDRY AREAS AND SIMILAR ROOMS/AREAS SHALL BE PROTECTED.
- LOCATION OF GROUND FAULT CIRCUIT INTERRUPTERS: GROUND FAULT CIRCUIT PROTECTORS SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION. BATHROOMS (125-VOLT, 15 & 20-AMPERE) OUTDOOR RECEPTACLES (125-VOLT, 15 & 20-AMPERE) UNFINISHED BASEMENT RECEPTACLES (125-VOLT, 15 & 20-AMPERE) KITCHEN (125 VOLT, 15 & 20-AMPERE) SINK (125 VOLT, 15 & 20-AMPERE)

EXTERIOR WALL FRAMING

- BOTTOM SILL PLATES SHALL BE PRESSURE TREATED OR EQUAL
- SILL PLATES SHALL BEAR/EXTEND MIN. 6-INCHES ABOVE GRADE
- ALL EXT. STUD TO BE SECURED TO THEIR DOUBLE TOP PLATES W/ (2) 16-d NAILS (MIN)
- ALL EXTERIOR CORNERS TO BE BRACED WITH 7/16" OSB NAILING SCHEDULE SHALL BE 8d COMMON @ 8" O.C. ALONG EDGES & 8d COMMONS @ 12" O.C. @ INTERMEDIATE STUDS

ROOF FRAMING

- ALL ROOF EAVES/OVERHANGS TO BE 16" - U.N.O.
- ALL JOISTS & RAFTERS TO BE ALIGNED OVER STUDS
- ROOF SHEATHING SHALL BE 7/16" OSB LAID W/ LONG DIMENSION PERPENDICULAR TO EAVE LINE & STAGGERED 48" O.C. W/ GALV. SPACER CLIPS ALONG ALL EDGES - SECURE SHEATHING W/ 8d COMMON NAILS TO RAFTERS AT 6" O.C. ALL EDGES

EROSION CONTROL

- EROSION CONTROL MEASURES SHALL BE IN PLACE & IN GOOD WORKING ORDER AT ALL TIMES DURING INSPECTIONS. IN THE EVENT THAT THEY ARE NOT, THE INSPECTOR MAY CANCEL THE INSPECTION UNTIL SUCH TIME THE EROSION CONTROL MEASURES ARE IN PLACE. A FINE, RE-INSPECTION FEE & STOP-WORK ORDER MAY BE ISSUED IF EROSION CONTROL IS NOT ADDRESSED. MINIMUMS INCLUDE:
 - SILT FENCE OR STRAW WATTLE AROUND ALL DISTURBED SOIL. SHALL BE IN PLACE BEFORE ANY EXCAVATION BEGINS
 - TEMPORARY GRAVEL CONSTRUCTION ENTRANCE. THIS ENTRANCE SHOULD BE THE ONLY ENTRANCE & EXIT USED FOR VEHICLES INTO & OUT OF THE SITE
 - STREETS SHALL BE MAINTAINED FREE OF ALL SOIL & GRAVEL IN A BROOM CLEAN CONDITION AT ALL TIMES

FOOTING/FOUNDATION & CONCRETE NOTES

- TO ADDRESS DIFFERENTIAL SETTLEMENT, ALL INTERIOR BEARING AND EXTERIOR FOOTINGS & PADS TO BE EXCAVATED & PLACED MIN. 18 INCHES INTO UNDISTURBED NATURAL SOIL
- EXT. FOOTING TO BE PLACED MIN. 36-INCHES BELOW FIN. GRADE
- DESIGN IS BASED ON MIN. OF 2,500 PSI, CONCRETE STRENGTHS TO ACHIEVE THE FOLLOWING BASED UPON:
 - 3,000 PSI FOR FOOTINGS, FOUND. WALLS & VERT. SUPPORTS
 - 3,500 PSI FOR GARAGE FLOOR
- CONC. EXPOSED TO WEATHER TO HAVE 6% (+/-1%) AIR ENTRAINMENT
- PROVIDE 4" (MIN) CONC. SLAB REIN. W/ #4 @ 12" O.C. E.W.; TOP REIN. OVER PEDESTALS AS INDICATED (#4 x 7 FT @ 8" O.C. E.W.; PLACE OVER 6 MIL VAPOR BARRIER)
- REINFORCE EXTERIOR FOOTINGS W/ #4 @ 24" E.W.; REINFORCE W/ (2) #4 CONT. AT BOTTOM
- PROVIDE #4 x 48"(L) @ 45-DEGREES @ RE-ENTRANT CORNERS
- 1/2"x10"(L) ASTM A307 ANCHOR BOLTS @ 48" O.C. @ EXT. WALLS
- ANCHOR PRESSURE TREATED PLATE @ INT. BEARING WALLS W/ 1/2" x 4-1/2" HILTI WEDGE BOLTS @ 72" O.C. MAX. 12' FROM ENDS
- PROVIDE 24" LAPS MIN. INCLUDING CORNERS
- INSTALL HOLDDOWN BOLT ANCHORAGE AS INDICATED ON PLAN
- PROVIDE BITUMINOUS DAMP-PROOFING AT FOUNDATION WALLS
- SOIL BEARING CAPACITY IS NOT ASSUMED TO BE GREATER THAN 2,000 PSF IN THE CURRENT FOUNDATION DESIGN
- ALL COMPACTED FILL AREAS REQUIRE A SPECIAL INSPECTION

WOOD FRAMING, FLOORS AND ROOF NOTES

- EXT. WALL FRAMING TO BE 2 x 4 (SYP OR DFL STUD GRADE 2 OR BETTER) @ 16" O.C.
- ROOF SHEATHING TO BE 7/16" OSB NAILED W/ 8d @ 6" O.C. PANEL INDEX 24/0; PROVIDE CLIPS AT UNSUPPORTED PANEL EDGES
- SHEATH EXT. WALLS W/ 7/16" OSB NAILED W/ 8d @ 6" O.C.
- HEADERS: PROVIDE (2) 2 x 8 (SYP OR DFL #2 OR BETTER) U.N.O.; CONSTRUCT HEADERS W/ 2 x 7/16" OSB BETWEEN W/ (2) ROWS OF 16d @ 16" O.C.
- BLOCKING MIN. 1.5 INCHES UTILITY GRADE LUMBER-JOISTS TO BE SUPPORTED AT ENDS FULL DEPTH SOLID BLOCKING NOT < 2-INCHES
- TJI F.J., C.J. & RAFTERS TO BE SYP OR DFL GRADE #2 OR BETTER
- EXT. WALL STUDS & LOAD BEARING WALLS TO BE CONTINUOUS FROM FLOOR TO ROOF/CEILING DIAPHRAGM PER IRC 602.3
- STUDS, RAFTERS, JOISTS, MISC. LUMBER MIN. GRADE #2 D.F. OR S.Y.P.

STEEL COLUMNS & OTHER BASEMENT/FOUNDATION NOTES

- ALL STEEL PIPE COLUMNS TO BE 3" (OR 3-1/2") SCHEDULE 40 GRADE
- INTER. BEARING WALLS & COLUMNS SHALL BE ISOLATED FROM THE BASEMENT FLOOR SLAB
- INTER. NON-BEARING WALLS, OTHER THAN THOSE RESTING DIRECTLY ON THE FOOTING, SHALL BE ISOLATED FROM THE FLOOR FRAMING ABOVE
- AT WALKOUT FOUNDATION AREAS, REINFORCE THE SLAB FROM THE FOUNDATION WALL TO 2 FEET BEYOND THE OVERDIG AREA WITH #4 BARS AT 24 INCHES O.C. PERPENDICULAR AND HORIZONTAL TO THE WALL; MAXIMUM 4-FOOT OVERDIG.
- AT WALKOUTS THE FOUNDATION WALL SHALL BE INSULATED W/ A MINIMUM R-6 INSULATION FOR A MIN. OF 3 FEET BELOW THE BOTTOM OF THE SLAB
- WHERE FLOOR JOISTS ARE PARALLEL TO THE FOUNDATION WALL, THE WALL SHALL BE SUPPORTED LATERALLY AT THE TOP BY SOLID BLOCKING FOR A MINIMUM OF TWO JOIST SPACES, SPACED NOT MORE THAN 4 FEET O.C.

UNFINISHED BASEMENT REQUIREMENTS

- FIRE PROTECTION OF FLOORS: FLOOR ASSEMBLIES CONSTRUCTED W/ JOISTS LESS THAN 2x10 DIMENSIONAL LUMBER
- I-JOISTS OR OPEN WEB JOISTS OVER UNFINISHED BASEMENTS SHALL BE PROVIDED WITH 1/2 INCH DMB, 5/8 INCH WOOD
- UNFINISHED BASEMENTS SHALL BE MIN. R-13 INSULATED WALLS OR INSULATED O/H FLOOR/CEILING (MIN R-19)
- ALL EXPOSED HVAC DUCTS IN UNFINISHED BASEMENTS SHALL BE MIN R-8 INSULATED OR ENCLOSED INSIDE A FLOOR/CEILING
- UNFINISHED BASEMENTS SHALL HAVE NO CONDITIONED AIR OUTLETS

PHYSICAL SECURITY ORDINANCE

- OWNER/BUILDER IS RESPONSIBLE FOR COMPLIANCE OF PHYSICAL SECURITY ORDINANCE FOR THEIR LOCAL JURISDICTION

- Smoke alarms shall be listed in accordance with UL 2034 and comply with Section R314. Combination smoke/carbon monoxide alarms shall be in accordance w/ UL 217 & UL 2034.
- Smoke alarms shall be installed in the following locations:
 - In each sleeping room.
 - Outside each separate sleeping area in the immediate vicinity of the bedrooms.
 - On each additional story of the dwelling, including basements and habitable attics but not including crawl spaces and uninhabitable attics.
 - Where more than one smoke alarm is required to be installed w/in an individual dwelling unit in accordance with Section R314.3, the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all alarms in the individual unit.

D SMOKE & CARBON MON. DETECTOR REQ'S.

N.T.S.

DOOR SCHEDULE	
*ALL DOORS ARE 6'-8" HIGH UNLESS NOTED OTHERWISE	
①	3'-0" x 8'-0"(H) ENTRY
②	3'-0" THERMAL
③	6'-0" SLIDING GLASS
④	3'-0" HC
⑤	PR. 2'-0"
⑥	3'-0" (20 MIN)-CLOSER
⑦	3'-0" POCKET
⑧	PR. 2'-6"
⑨	6'-0" SLIDER
⑩	1'-6"
⑪	PR. 3'-0"
⑫	5'-0" SC
⑬	2'-6" POCKET



AOR: AARON BROWN
MO # A-7215
4334 QUARTER HORSE LANE
BATES CITY, MO 64011
816-588-1178

BOYER RESIDENCE
725 SW 15TH CIRCLE
LEE'S SUMMIT, MISSOURI 64081

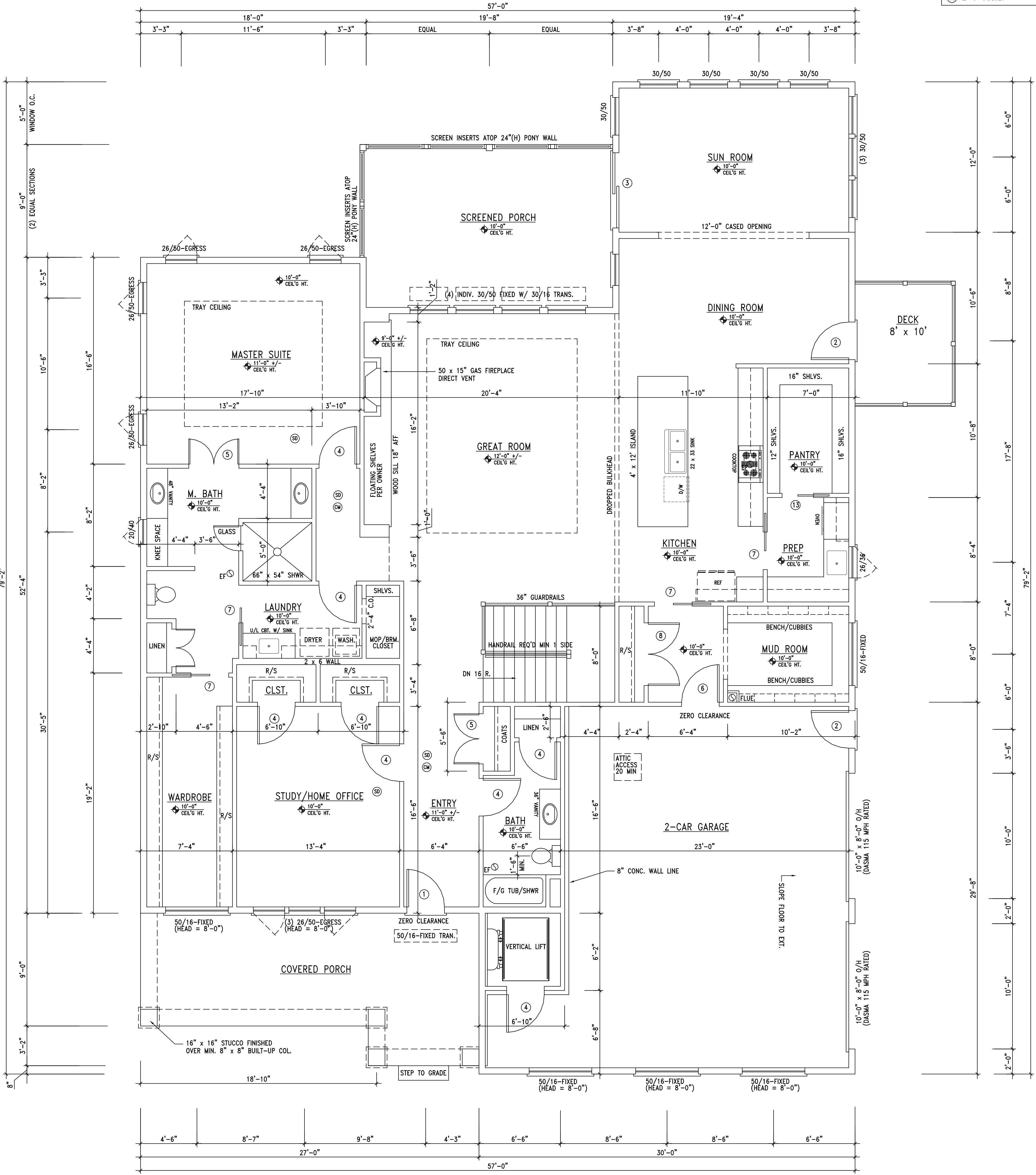
DATE: 07-22-2021
SUBDIVISION:
PLOT #:

REVISION	DATE

ISSUED: PERMIT/CONSTRUCTION

SQUARE FOOTAGE CALCULATIONS

MAIN LEVEL = 2,790 GSF
2-CAR GARAGE = 767 GSF
UNFINISHED LOWER = 2,790 GSF
SUSPENDED PORCH = 270 GSF
SCREEN PORCH = 260 GSF
COVERED ENTRY PORCH = 270 GSF



A MAIN LEVEL FLOOR PLAN

1/4" = 1'-0"



$$1/4'' = 1'-0'$$

ISSUED: PERMIT/CONSTRUCTION

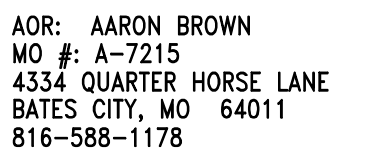
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RELEASE FOR CONSTITUTIONAL

AS NOTED FOR PLAN
DEVELOPMENT SER

LEE'S SUMMIT, MISS

08/06/20



AOR: AARON BROWN
MO #: A-7215
4334 QUARTER HORSE LANE
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816-588-1178

BOYER RESIDENCE
725 SW 15TH CIRCLE
LEE'S SUMMIT, MISSOURI 64081

DATE: 07-22-2021
SUBDIVISION: _____
PLOT #: _____

REVISION	DATE

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ISSUED: PERMIT/CONSTRUCTION

1 1

RELEASE FOR CONSTRUCTION
10-11-68 500 21 AM

AS NOTED FOR PLAN F
DEVELOPMENT SERV
LEE'S SUMMIT, MISS

08/06/20

NOTE:

- ADJACENT NAILS ARE DRIVEN FROM OPPOSITE SIDES OF COLUMN
- CONTRACTOR MAY SUBSTITUTE $\frac{3}{4}$ " DIA BOLTS WITH METAL PLATE OR WASHER IN PLACE OF 300 OR 500 NAILS
- CONTRACTOR SHALL PRE-DRILL STUMPS WITH "K" DRILL BIT THEN USING 300 AND 500 NAILS TO PREVENT SPLITTING OF WOOD
- CONTRACTOR SHALL PRE-DRILL STUMPS WITH "K" DRILL BIT THEN USING 300 AND 500 NAILS TO PREVENT SPLITTING OF WOOD

O-----INDICATES NAILS DRIVEN FROM NEAR FACE
 +-----INDICATES NAILS DRIVEN FROM FAR FACE

PATTERN 1 PATTERN 2

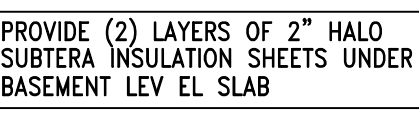
N.T.S.



NOTES:

1. NOT FOR OPEN-EB FLOOR TRUSS SYSTEMS.
2. BASED ON A MAXIMUM JOIST SPAN OF 18FT
3. HEADERS SUPPORT FLOOR LOADS ONLY. RE: PLANS OR CONTACT ENGINEER IF ROOF LOADS NEED TO BE SUPPORTED.
4. FRAMER SHOULD CONSULT IRC TABLE R502.5(1) FOR LOAD BEARING HEADERS USING 30PSF GROUND SNOW LOAD AND THE MAX. BUILDING WIDTH. FRAMER SHALL PROVIDE THE MORE STRINGENT CHOICE BETWEEN THE IRC TABLE AND THIS DETAIL.
5. FRAMER SHALL CONTACT ENGINEER IF ENGINEERED LUMBER IS TO BE UTILIZED.

N.T.S.

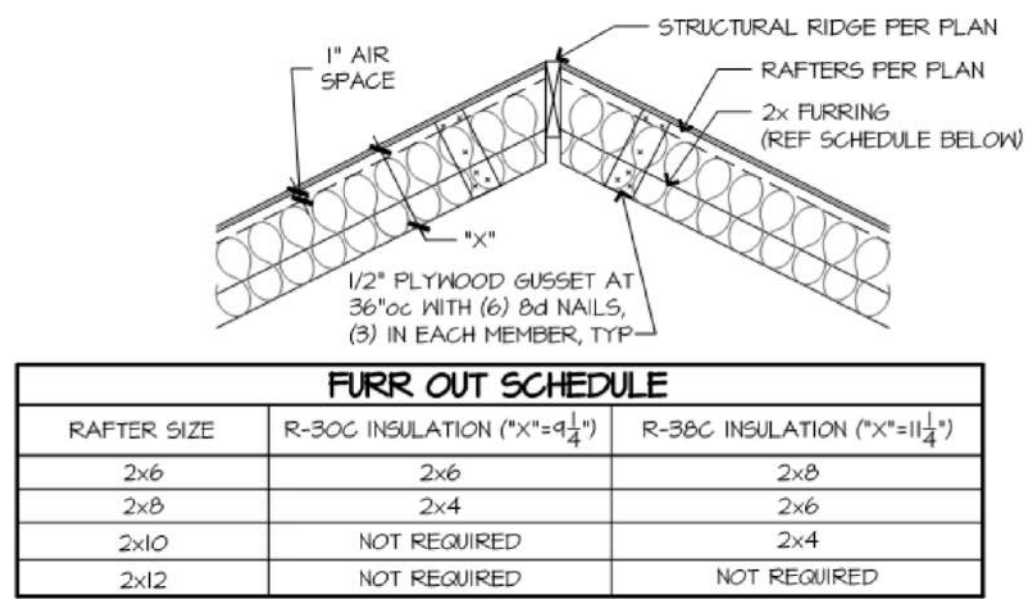


N.T.9



N.T.9


$$1/4'' = 1'-0''$$



FURR OUT SCHEDULE		
RAFTER SIZE	R-30C INSULATION (\"x\"+\"x\"+\"x\")	R-30C INSULATION (\"x\"+\"x\"+\"x\")
2x6	2x6	2x6
2x8	2x8	2x8
2x10	NOT REQUIRED	2x8
2x12	NOT REQUIRED	NOT REQUIRED

C FUR DOWN RAFTER REQUIREMENTS

N.T.S.

ROOF RAFTER SCHEDULE						
GRADE	MEMBER SIZE / SPACING	MAX SPAN CEILING JOIST AT TOP PLATE	MAX SPAN $H_0/H_R=0.16$	MAX SPAN $H_0/H_R=0.20$	MAX SPAN $H_0/H_R=0.25$	MAX SPAN $H_0/H_R=0.33$
#2 DFL	2x6 / 16'oc	14'-4"	12'-8"	11'-8"	10'-4"	8'-5"
#2 DFL	2x6 / 16'oc	16'-2"	16'-4"	15'-4"	13'-4"	12'-2"
#2 DFL	2x6 / 16'oc	22'-3"	20'-0"	18'-5"	16'-8"	14'-8"
#2 DFL	2x12 / 16'oc	25'-4"	23'-2"	21'-4"	18'-7"	17'-3"

CEILING JOISTS AND RAFTER CONNECTIONS

CEILING JOISTS AND RAFTERS SHALL BE TIED TO ONE ANOTHER PER TABLE R602.3(1) AND R802.5.1(9) AND THE ASSEMBLY SHALL BE NAILED TO THE TOP PLATE PER R602.3(1). CEILING JOIST NOT PARALLEL TO RAFTERS USE SUBFLOORING OR METAL STRAPS ATTACHED TO END OF THE RAFTERS TO PROVIDE A CONT. TIE ACROSS THE STRUCTURE.

TIE-DOWN REQUIREMENTS (R802.11)

FOR RAFTER SPANS OVER 20'-0\"/>

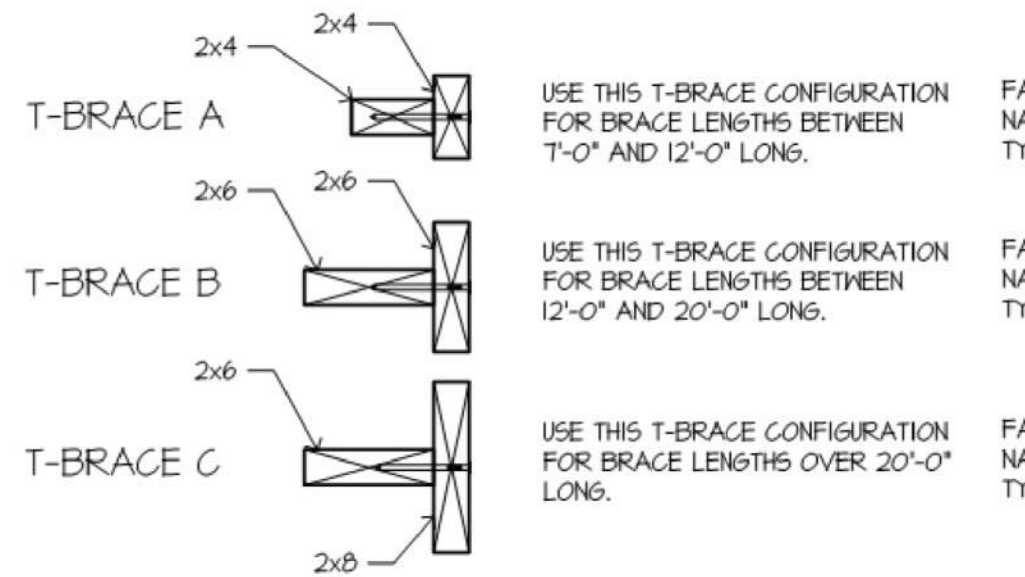
PER TABLE R802.5.1(2) THE MAX RAFTER SPAN FOR D.F.L. 2 x 6 RAFTERS #2 GRADE = 14'-1\"/>

ALL RIDGE BEAMS TO BE 2 x 12 OR 2 x 10
RAFTER TIES/COLLARS REQUIRED AT ALL LOCATIONS

RAFTER/CEILING JOIST HEEL CONNECTIONS

PROVIDE (5) 16D NAILS AT EACH HEEL JOINT (RAFTER-JOIST, RAFTER-TIE) CONNECTION, ALSO DENOTED IN DETAIL FOR TYP. ROOF/RAFTER FRAMING. THIS MEETS/EXCEEDS TABLE R802.5.1(9) FOR ROOF SPANS UP TO 28'-0\"/>

ROOF FRAMING CONNECTION TO BEAMS WHERE LVL IS TO BE INSTALLED IN PLANE, PROVIDE SIMPSON STRONG TIE LRU28Z RAFTER HANGERS EA. RAFTER TO LVL. EACH END OF LVL TO BE SECURED TO SUPPORTING CONSTRUCTION WITH SST LSTA15 OR EQUIVALENT STRAP W/ 1100 LBS. CAPACITY. STRAPPING SHALL BE REQUIRED AT ALL NON-CONT. MEMBERS BETWEEN BEAM & TOP OF FLOOR



FOR FULL VAULT WHERE NO COLLAR TIES CAN BE INSTALLED, PROVIDE AT EA. RAFTER A SIMPSON STRONG TIE LRU28Z HANGER OR EQUIVALENT TO RIDGE BEAM W/ (6) 10D NAILS TO RIDGE & (5) 10D NAILS TO EACH RAFTER

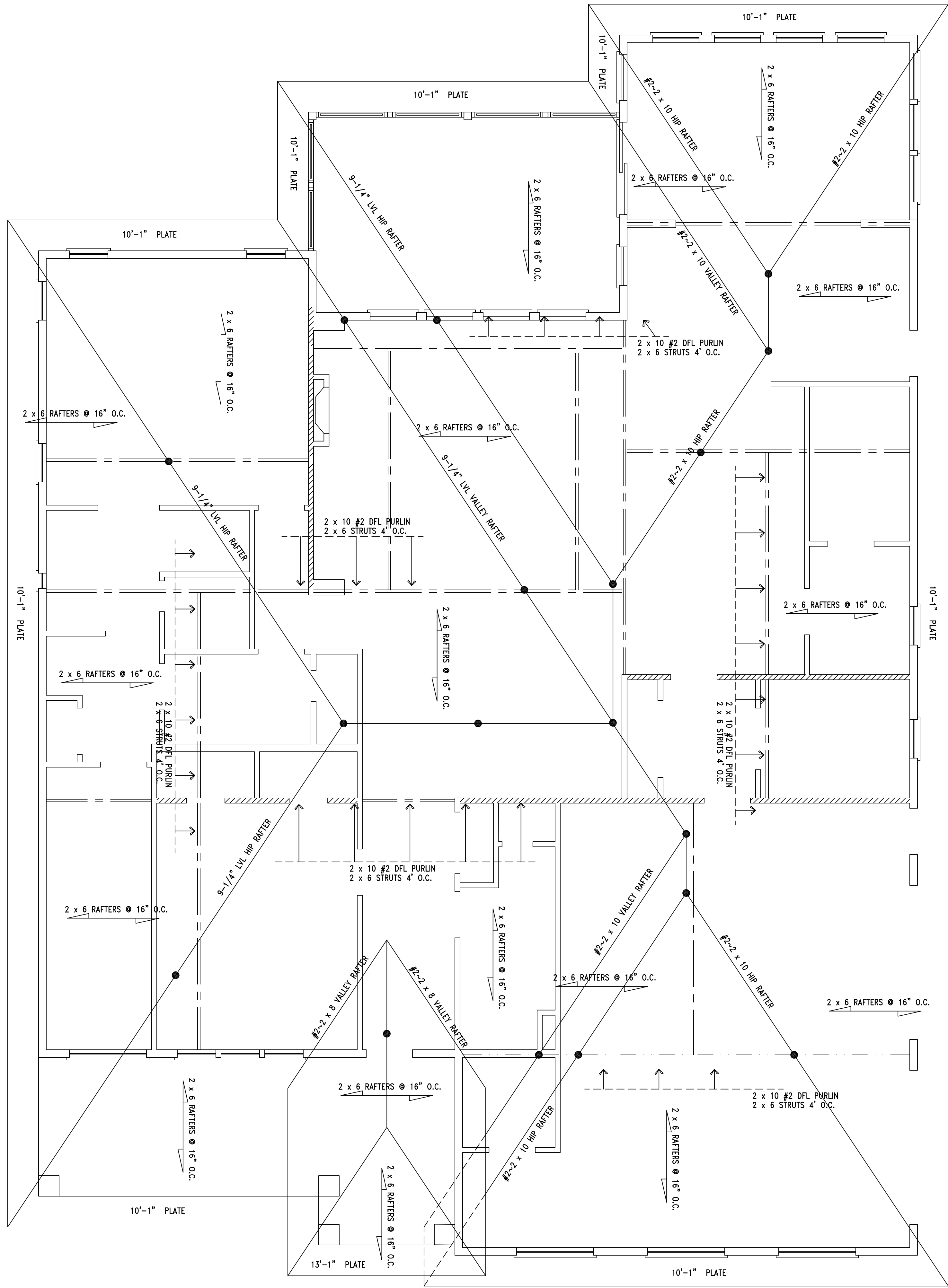
PURLINS:
1. PURLINS NO SMALLER THAN THE RAFTERS THEY SUPPORT
2. PURLINS TO BE CONTINUOUS
3. BRACES SPACED NO MORE THAN 4'-0\"/>

RAFTER TIE SAME SIZE AS JOIST ATOP PER TABLE R802.5.1(9) REQUIRES (3) 16d NAILS

CEILING JOISTS
SUBFLOORING OR METAL STRAPS TO END OF THE RAFTERS TO PROVIDE CONT. TIE ACROSS THE STRUCTURE

B TYP. ROOF/RAFTER FRAMING

N.T.S.



A ROOF PLAN

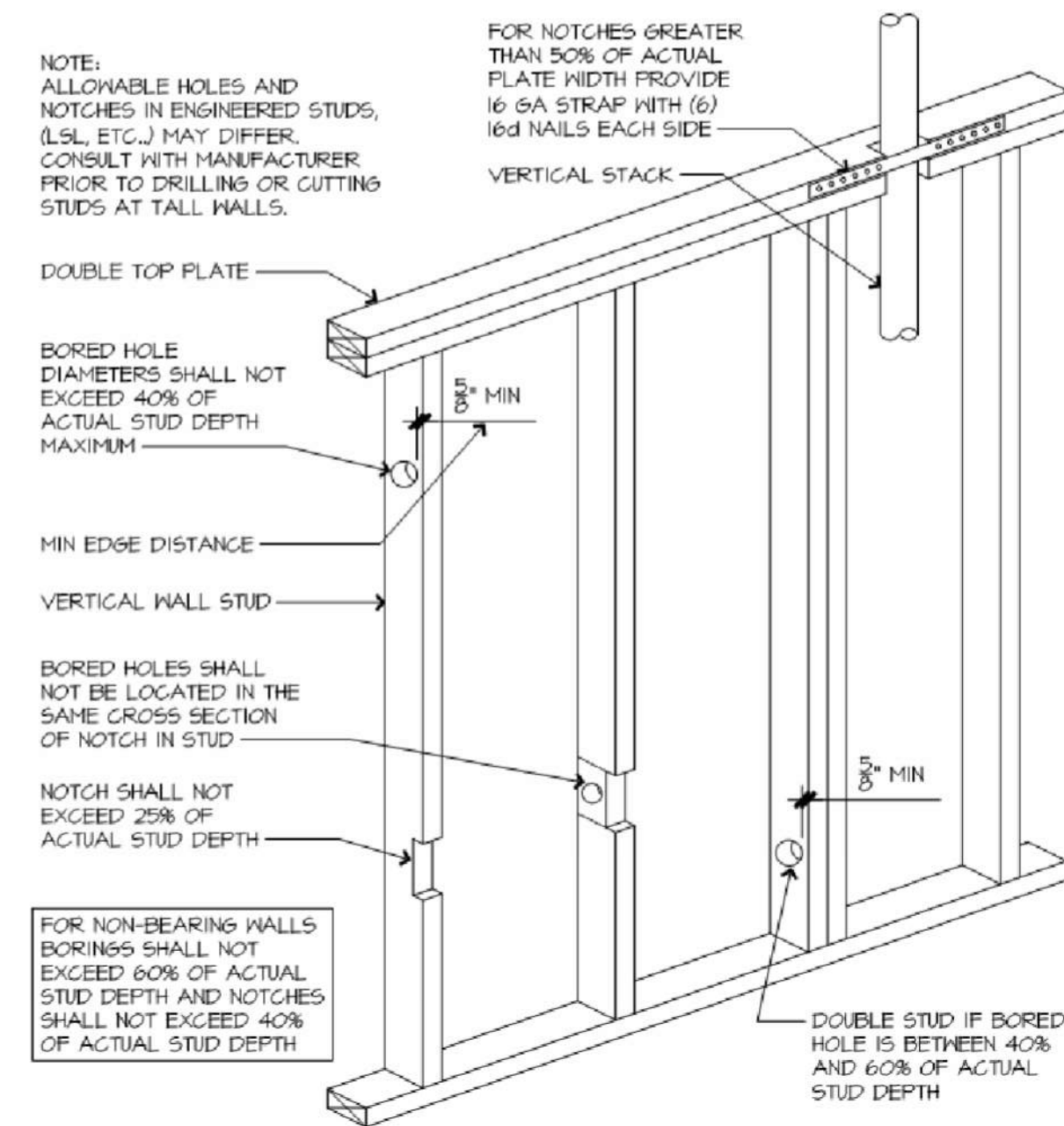
1/4\"/>



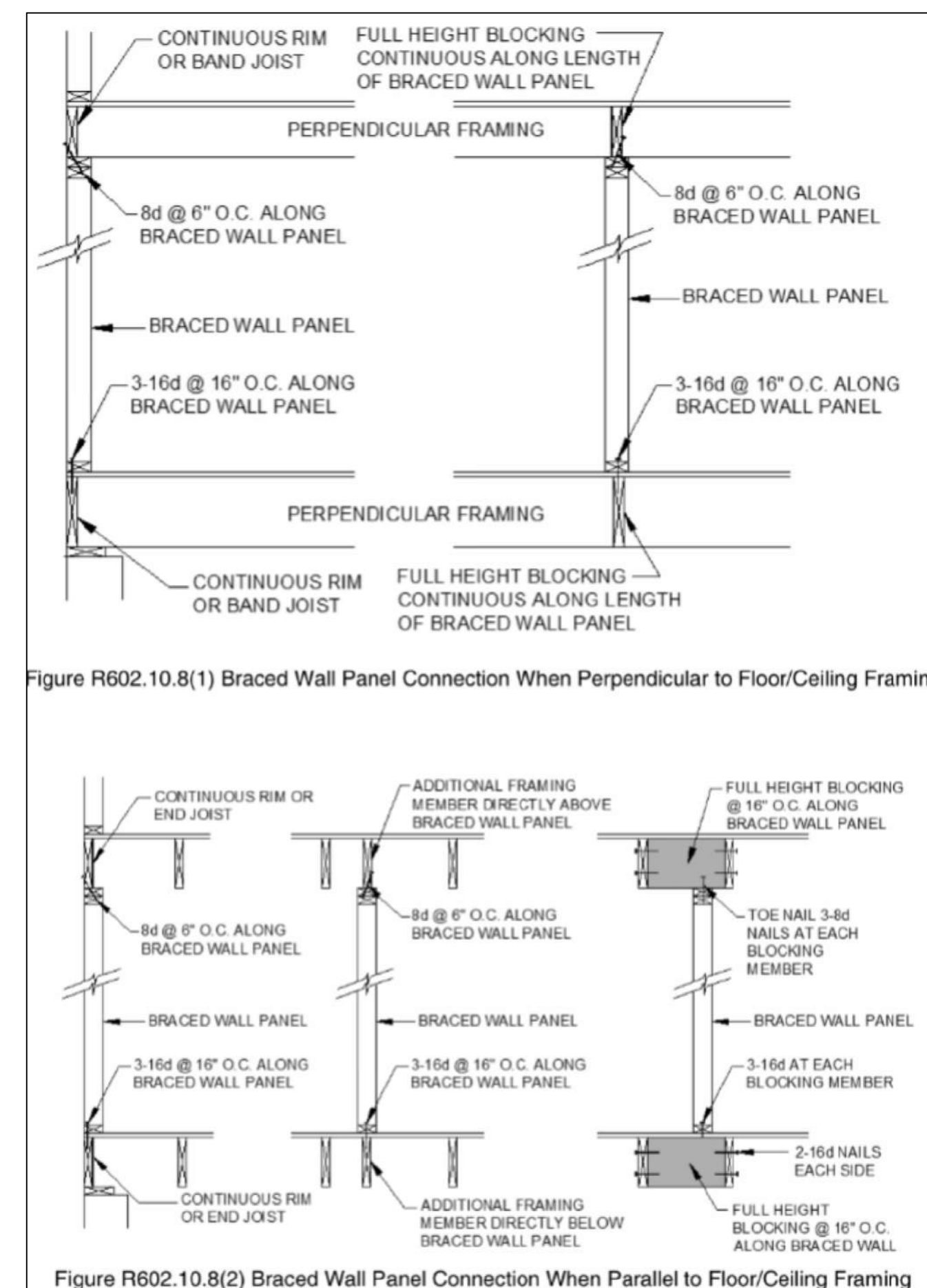
AOR: AARON BROWN
MO # A-7215
4334 QUARTER HORSE LANE
BATES CITY, MO 64011
816-588-1178

BOYER RESIDENCE
725 SW 15TH CIRCLE
LEE'S SUMMIT, MISSOURI 64081

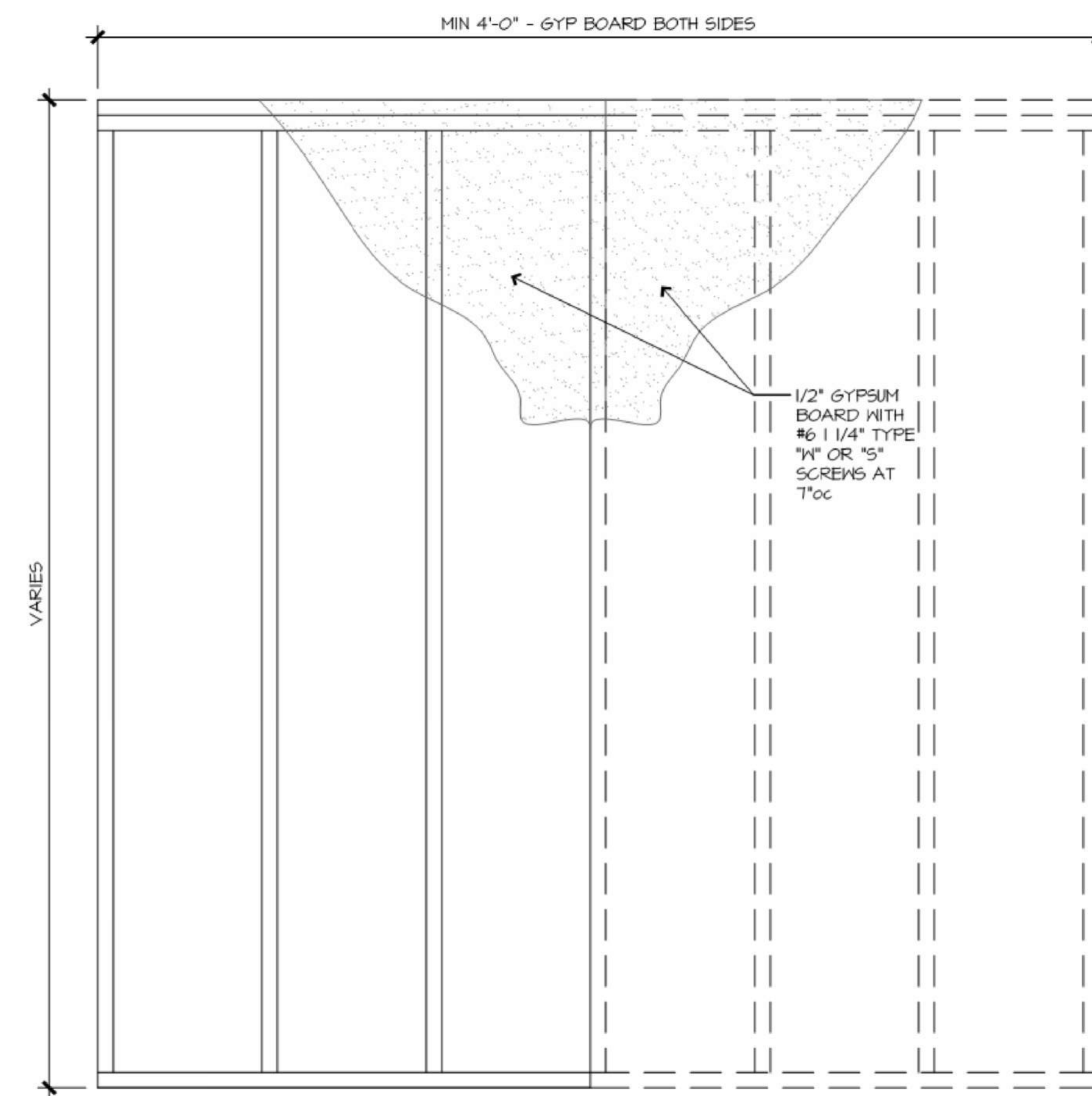
E PARTITION NOTCHING REQUIREMENTS
N.T.S.



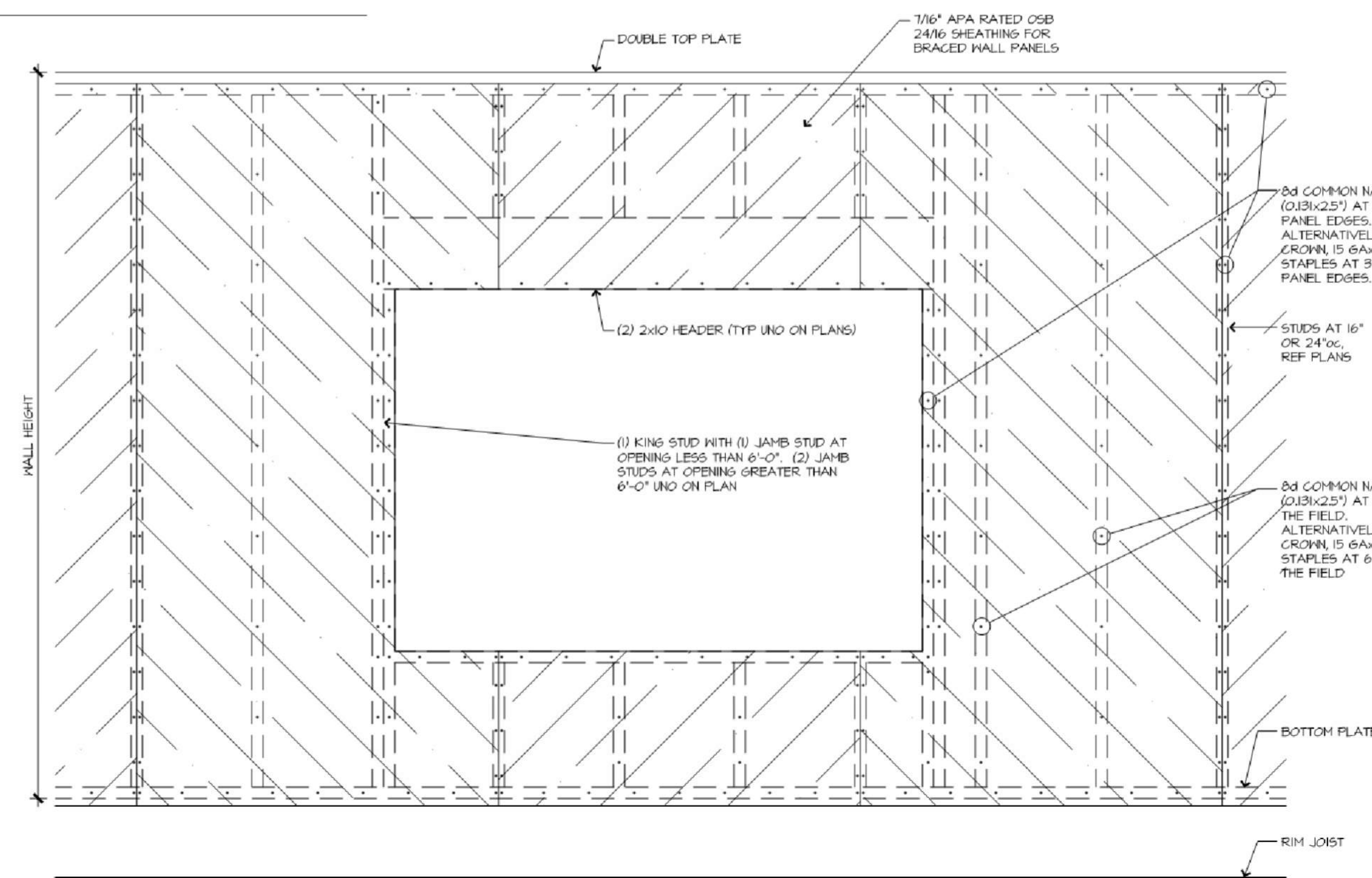
D BRACED WALL SEGMENT ATTACHMENT CEILING/FLOOR
2012 IRC SECTION R602.10.8
N.T.S.



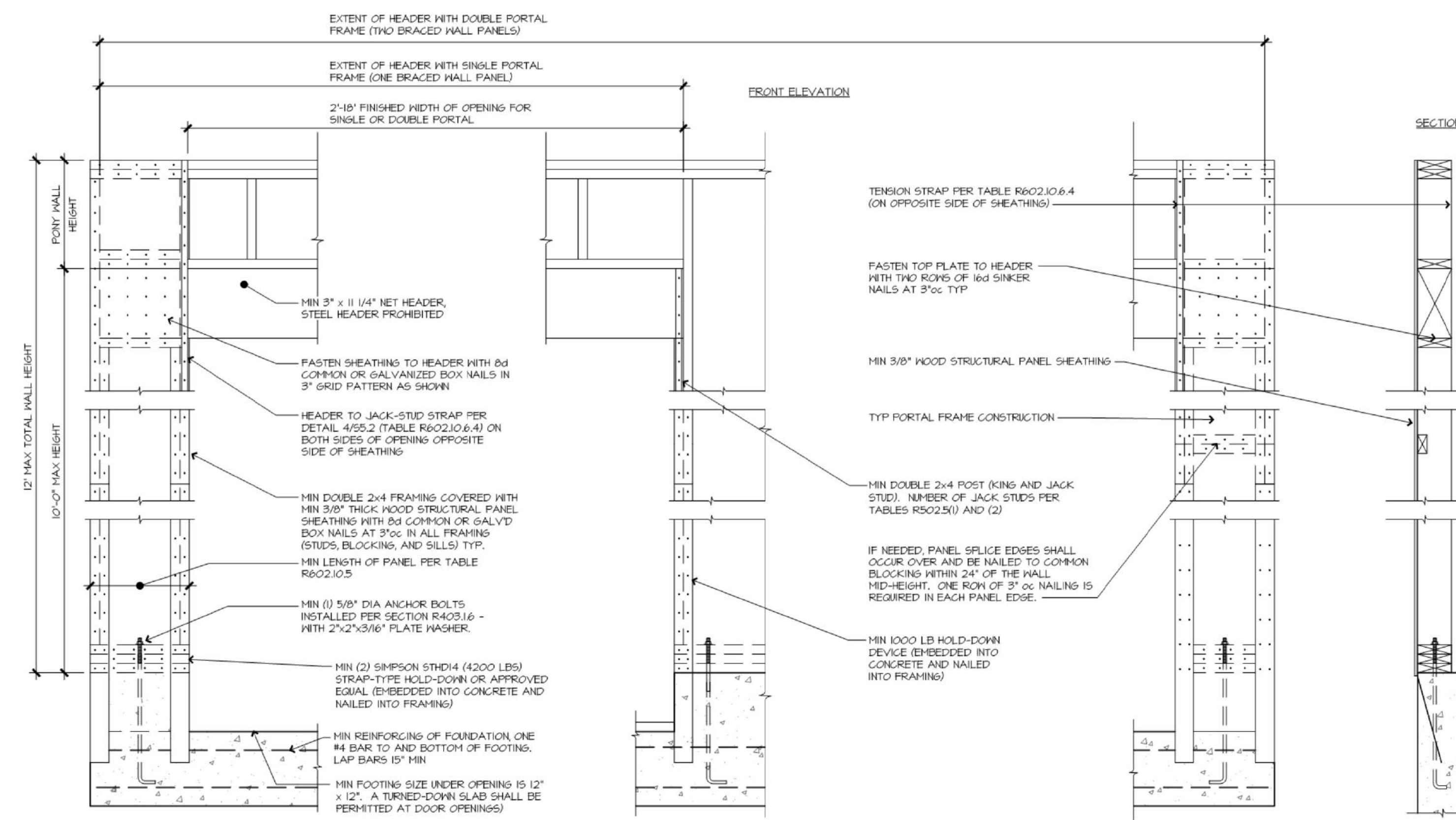
C METHOD GB CRITERIA
N.T.S.



B METHOD CS-WSP CRITERIA
N.T.S.



A PORTAL FRAME W/ HOLD-DOWN (PFH)
PER 2012 IRC R602.10
N.T.S.



DATE: 07-22-2021
SUBDIVISION: _____
PLOT #: _____

REVISION	DATE

ISSUED: PERMIT/CONSTRUCTION