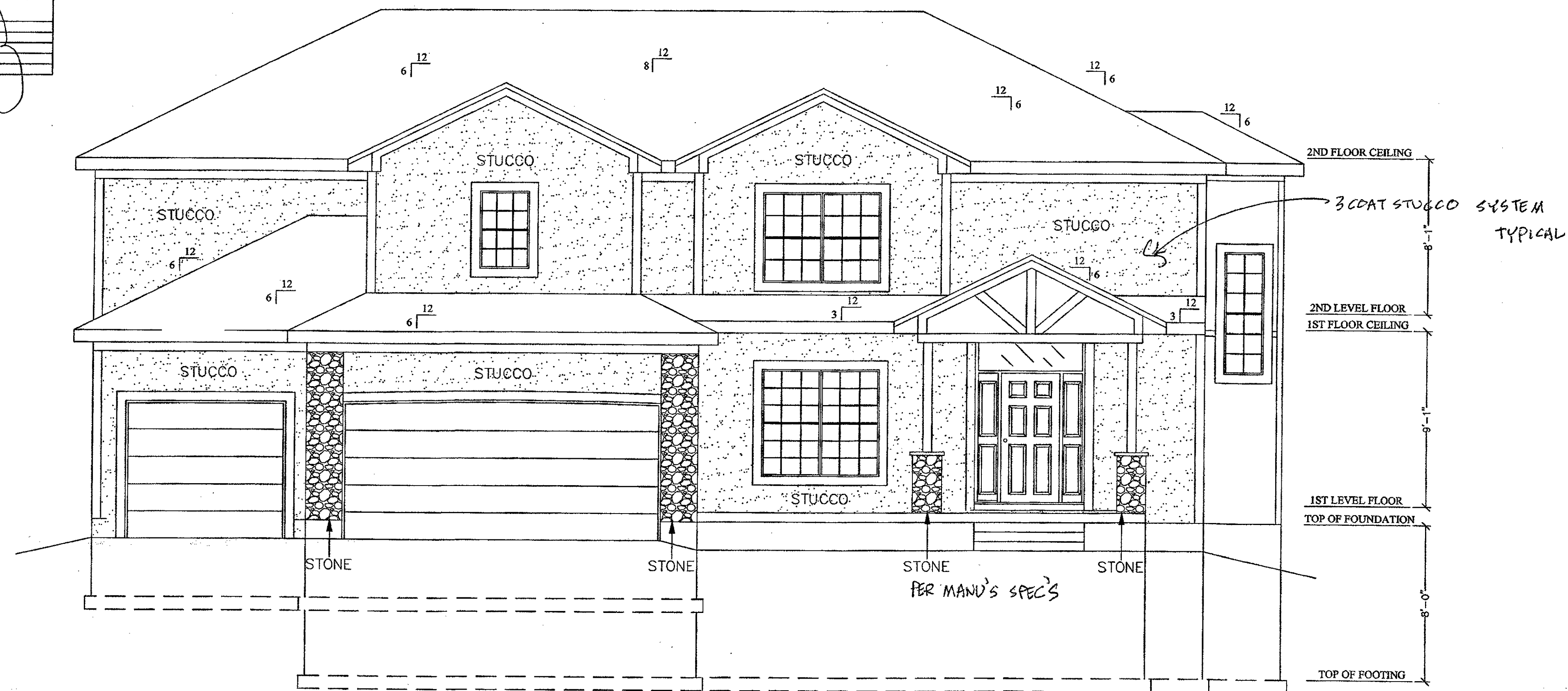


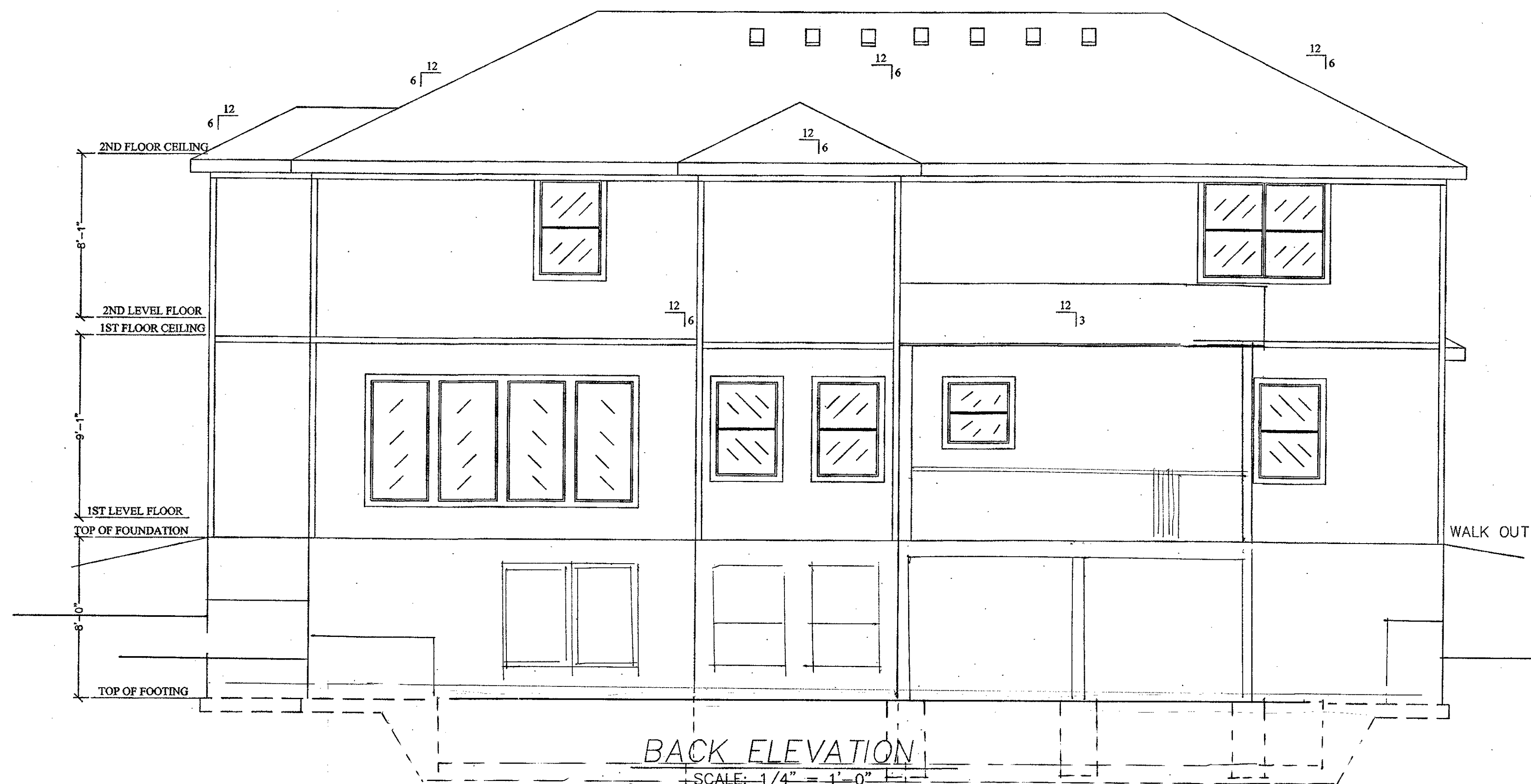
RESIDENTIAL AREA:			
RESIDENTIAL, HWING AREA	2710		
RESIDENTIAL, UN-FINISHED BASEMENTS	1173		
RESIDENTIAL, GARAGE	860		
RESIDENTIAL, LIVING AREA 2			
ROOFING MATERIAL	COMP	NUMBER OF BATHROOMS	3.5
NUMBER OF BEDROOMS	2	NUMBER OF STORIES	2
NUMBER OF LIVING UNITS	1	TOTAL LIVING AREA	2710
SEWER CONNECTION FEE	120		

COVERED DECK 216 1/2'

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/01/2022 4:27:43



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



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

DESCRIPTION:
FRONT/REAR ELEVATIONS

MODEL:
BRANTLY B

DATE:
2/20/21

ARCHITECT IS NOT RESPONSIBLE FOR THE STRUCTURAL ELEMENTS OF THESE PLANS. A STRUCTURAL ENGINEER MAY NEED TO VERIFY ALL STRUCTURAL ASPECTS OF THESE PRINTS BEFORE CONSTRUCTION BEGINS. FIELD CONDITIONS MAY BE DIFFERENT FROM PLAN. ALL STATE AND LOCAL CODES TAKE PRECEDENCE OVER THESE PLANS. CONTRACTOR WILL BE RESPONSIBLE FOR PLAN INTEGRITY AND CODE COMPLIANCE.

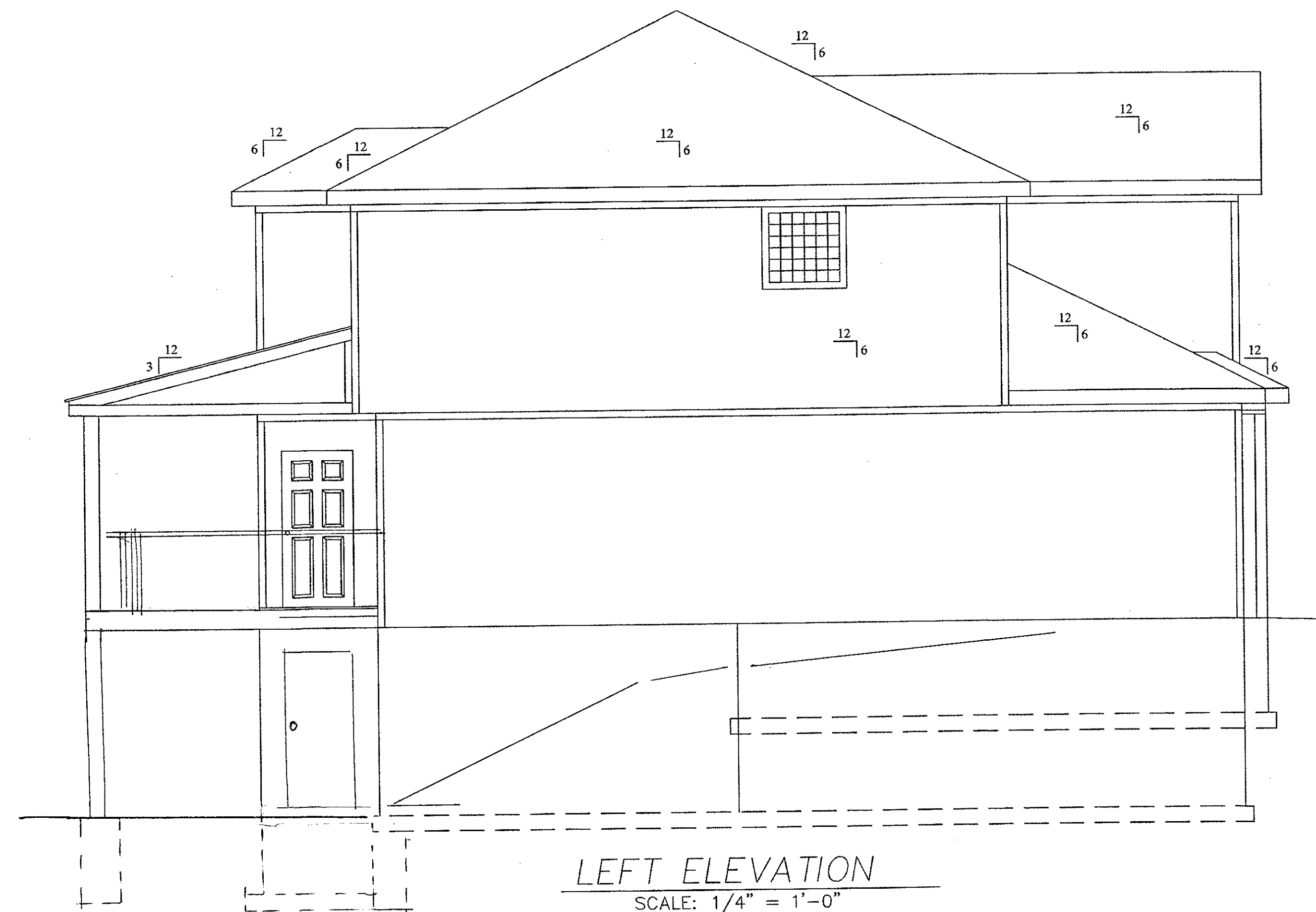
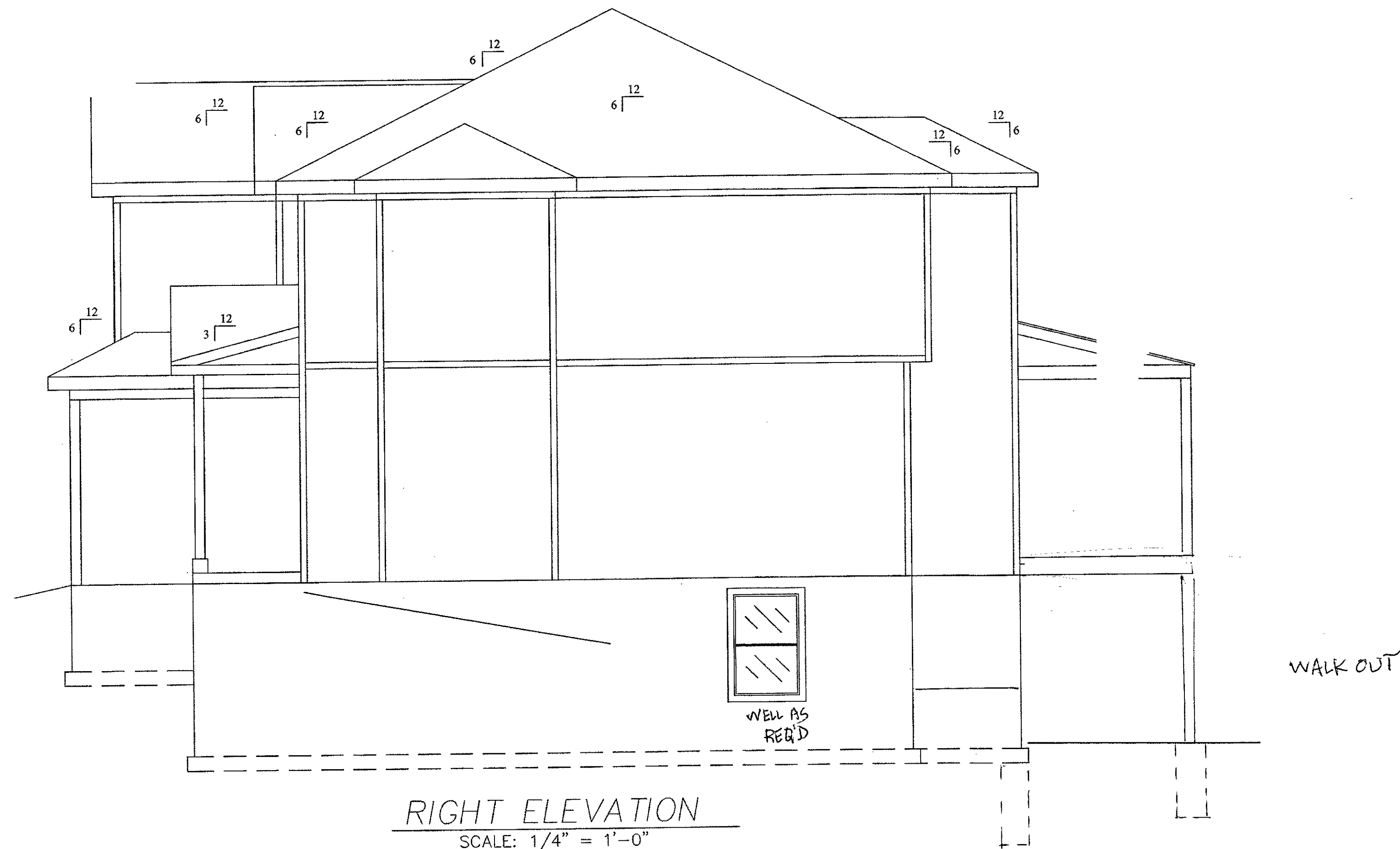
3206 SW Enoch St.
Summit View Farms
Lot 110
Lee's Summit, MO

BUILD
SET

STATE OF MISSOURI
KENNETH SIDOROWICZ
NUMBER E-19988
REGISTERED PROFESSIONAL ENGINEER
3/13/22

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1 of 6
SHEET NO:



DESCRIPTION:
LEFT/RIGHT ELEVATIONS

MODEL:
BRANTLY E

DATE:
2/20/21

ARCHITECT IS NOT
RESPONSIBLE FOR THE
STRUCTURAL ELEMENTS OF
THESE PLANS. A STRUCTURAL
ENGINEER MAY NEED TO
VERIFY ALL STRUCTURAL ASPECTS
OF THESE PRINTS BEFORE
CONSTRUCTION BEGINS. FIELD
CONDITIONS MAY BE DIFFERENT
FROM PLAN. ALL STATE AND
LOCAL CODES TAKE PRECEDENCE OVER
THESE PLANS. CONTRACTOR WILL BE
RESPONSIBLE FOR PLAN INTEGRITY
AND CODE COMPLIANCE

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Summit View Farms
Lot 110
Lee's Summit, MO

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2 of 6

SHEET NO:

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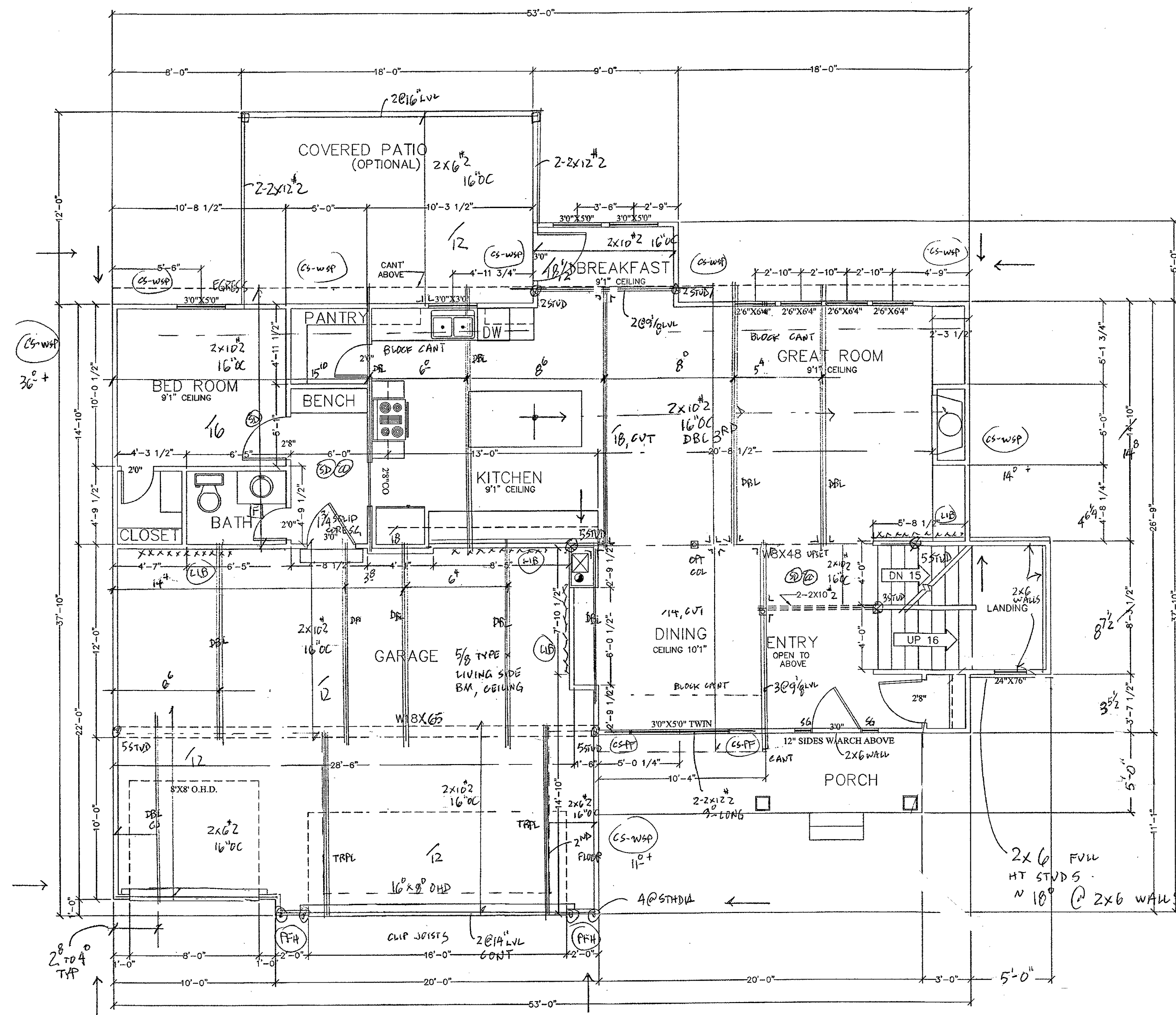
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3 of 6

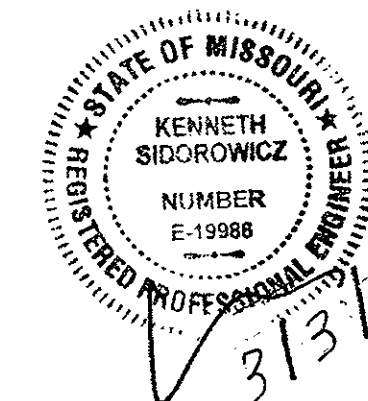
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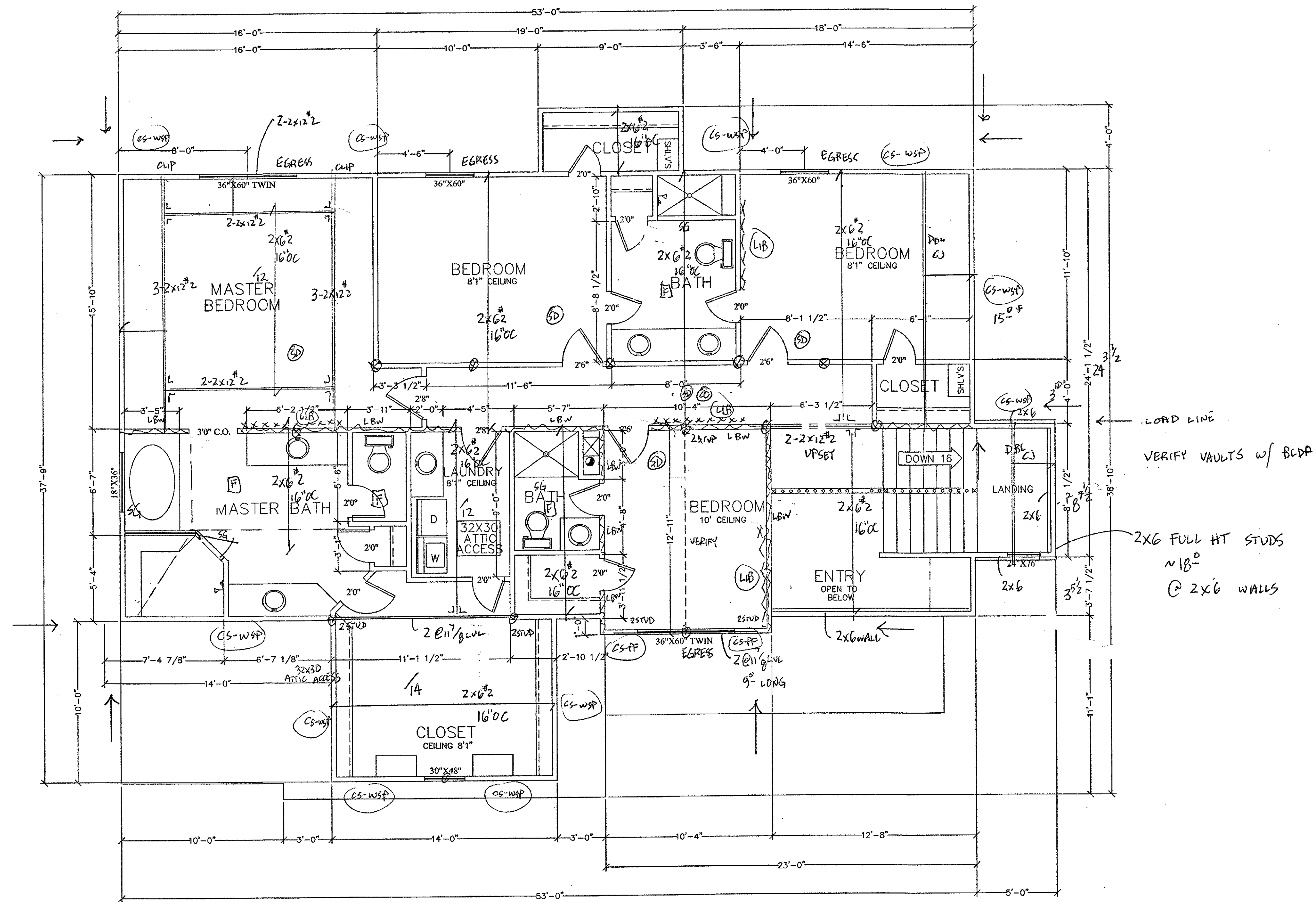


FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

1ST SQUARE FEET = 1173
2ND SQUARE FEET = 1537

TOTAL SQUARE FEET = 2710





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

2ND SQUARE FEET = 1537



DESCRIPTION:

SECOND FLOOR FRAMING
ROOF FRAMING PLAN

MODEL:

BRANTLY B

DATE:

2/20/21

ARCHITECT IS NOT RESPONSIBLE FOR THE STRUCTURAL ELEMENTS OF THESE PLANS. A STRUCTURAL ENGINEER MAY NEED TO VERIFY ALL STRUCTURAL ASPECTS OF THESE PRINTS BEFORE CONSTRUCTION BEGINS. FIELD CONDITIONS MAY BE DIFFERENT FROM PLAN. ALL STATE AND LOCAL CODES TAKE PRECEDENCE OVER THESE PLANS. CONTRACTOR WILL BE RESPONSIBLE FOR PLAN INTEGRITY AND CODE COMPLIANCE.

3206 SW Enoch St.
Summit View Farms
Lot 110
Lee's Summit, MO

BUILD
SET

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4 of 6

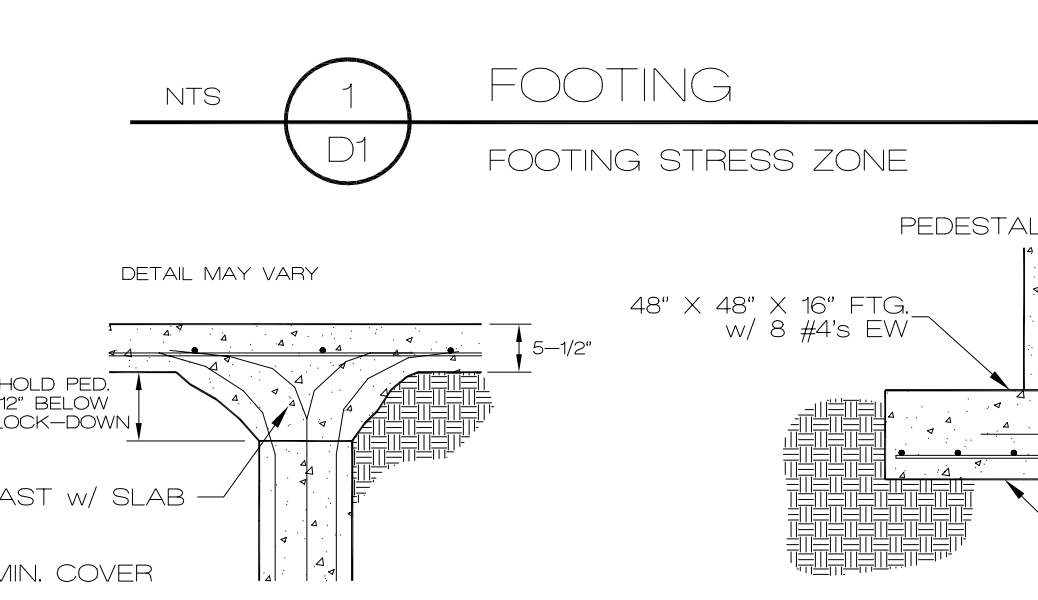
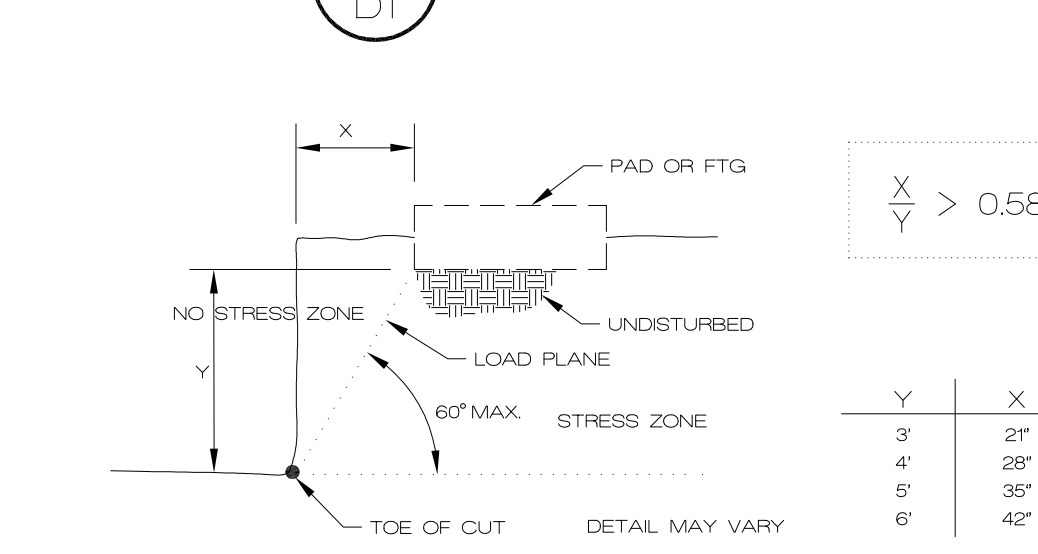
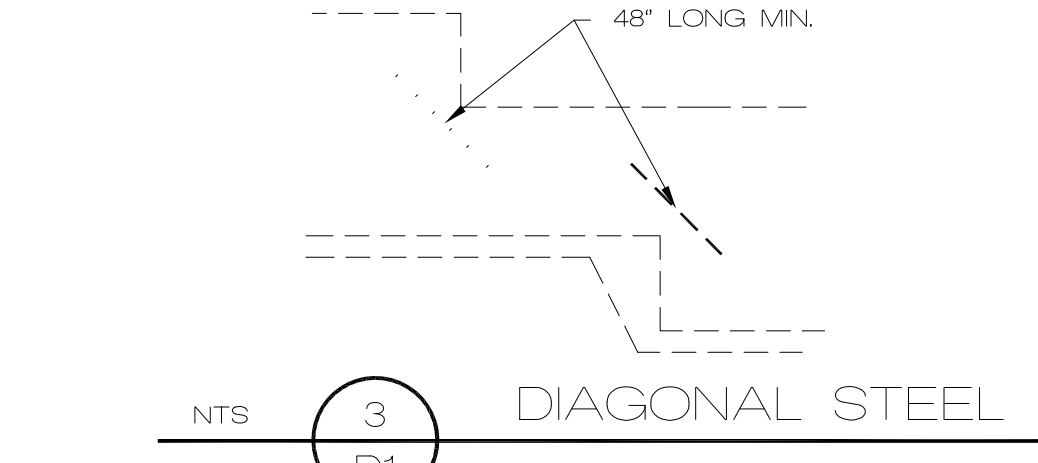
SHEET NO:

DIVISION 1 - GENERAL REQUIREMENTS

- DESIGN AND CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF THE 2018 IRC.
- FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE WORK AS SHOWN OR INFERRED BY THE DRAWINGS.
- DESIGN FACTORS:
 - GROUND SNOW LOAD (INCLUDING DRIFTING SNOW) 20 PSF
 - WIND SPEED EXPOSURE B 115 MPH
 - SEISMIC CATEGORY (A), GROUND ACCELERATION = NA
- DESIGN LOADS (PSF, UNLESS NOTED OTHERWISE):
 - ROOF (LL/DL) SEE TABLE
 - FLOOR (LL/DL) SEE TABLE
 - CEILING (LL/DL) SEE TABLE. (0/10 TRUSSES)
- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM A / E BEFORE CONTINUING CONSTRUCTION.
- THE CONTRACTOR SHALL EXAMINE ACTUAL JOB CONDITIONS AND BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE PLANS. IF ERRORS, OMISSIONS, OR DISCREPANCIES ARE FOUND THEY SHALL BE REPORTED TO THE DESIGN PROFESSIONAL BEFORE PROCEEDING WITH THE WORK.
- DIMENSIONS FOR NEW CONSTRUCTION ARE TO FACE OF FINISH OR COLUMNS AND FACE OF CONCRETE, WOOD, OR MASONRY WALLS UNLESS OTHERWISE INDICATED. DIMENSIONS INDICATE NOMINAL DIMENSIONS RATHER THAN ACTUAL DIMENSIONS.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TRADES EVEN IF THE TRADE IS UNDER A SEPARATE CONTRACT.
- PROVIDE SUFFICIENT STUDS AND BLOCKING WHERE REQUIRED TO SUPPORT EQUIPMENT AND/OR MISCELLANEOUS ITEMS, IE, LOAD POINTS, TYPICAL CASEWORK, CABINETS, GRAB BARS ETC.
- PRETREAT FOUNDATION FOR TERMITES AS REQUIRED.
- GARAGE DOORS AND FRAMES SHALL BE DESIGNED AND INSTALLED TO MEET THE 115 MPH WIND LOAD RESISTANCE REQUIREMENTS OF DASHMA 108 AND ASTM E 330.
- ALL EXTERIOR DOORS, INCLUDING THE DOOR LEADING FROM THE GARAGE TO THE DWELLING UNIT, SHALL INCORPORATE THE PHYSICAL SECURITY PROVISIONS OF THE JURISDICTION IN WHICH THE CONSTRUCTION TAKES PLACE.

DIVISION 2 - EARTHWORK

- ALL PROPERTY MARKERS SHALL BE EXPOSED.
- ALL FOOTINGS ARE DESIGNED TO BEAR ON NATURAL UNDISTURBED SOIL CAPABLE OF ADEQUATELY SUSTAINING A MINIMUM BEARING PRESSURE OF 1500 PSF. IF SUITABLE UNDISTURBED BEARING CAPACITY IS NOT ENCOUNTERED AT THE ELEVATION INDICATED ON THE DRAWINGS, CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY.
- ALL TOPSOIL, ORGANIC MATERIAL, AND EXISTING STRUCTURES SHALL BE REMOVED FROM BUILDING AREA AND FROM AREAS TO BE PAVED. STOCKPILE ALL TOPSOIL FOR REUSE.
- REFERENCE THE SOILS REPORT FOR ALL FILL CONDITIONS.
- OVEREXCAVATE BUILDING AREA BELOW SLAB SUBGRADE ELEVATION AND REPLACE WITH MATERIAL PER SOILS REPORT, VERIFY.
- SITE EROSION CONTROL SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES.
- IN-SITU SOIL CONDITIONS, SEE SOILS REPORT OR 1500 PSF BEARING & 60 PCF EQUIVALENT FLUID WEIGHT.
- SOIL CONDITIONS AT THE DEPTH OF EXCAVATION FOR THE FOOTING SHALL BE UNIFORM AND CONSISTENT. NOTIFY THE ENGINEER OF RECORD OF ANY INCONSISTENCIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF ANY EXCESS EXCAVATION MATERIALS AND FOR OBTAINING AND SUPPLYING ADDITIONAL FILL MATERIAL AS REQUIRED.

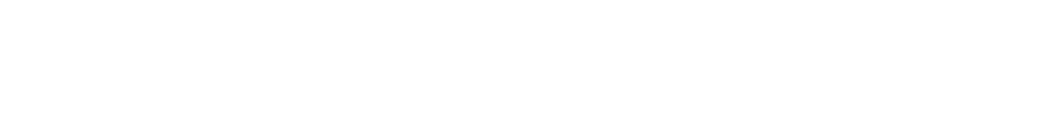
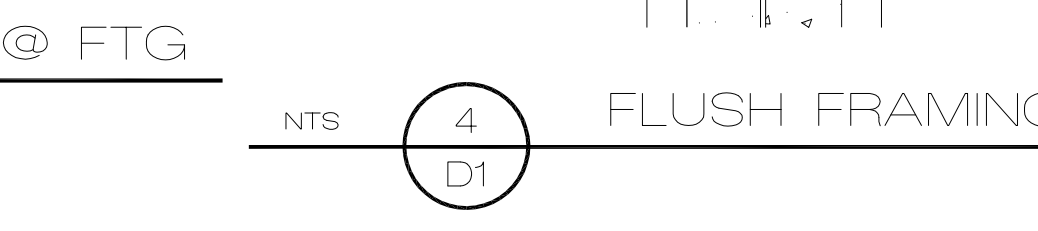
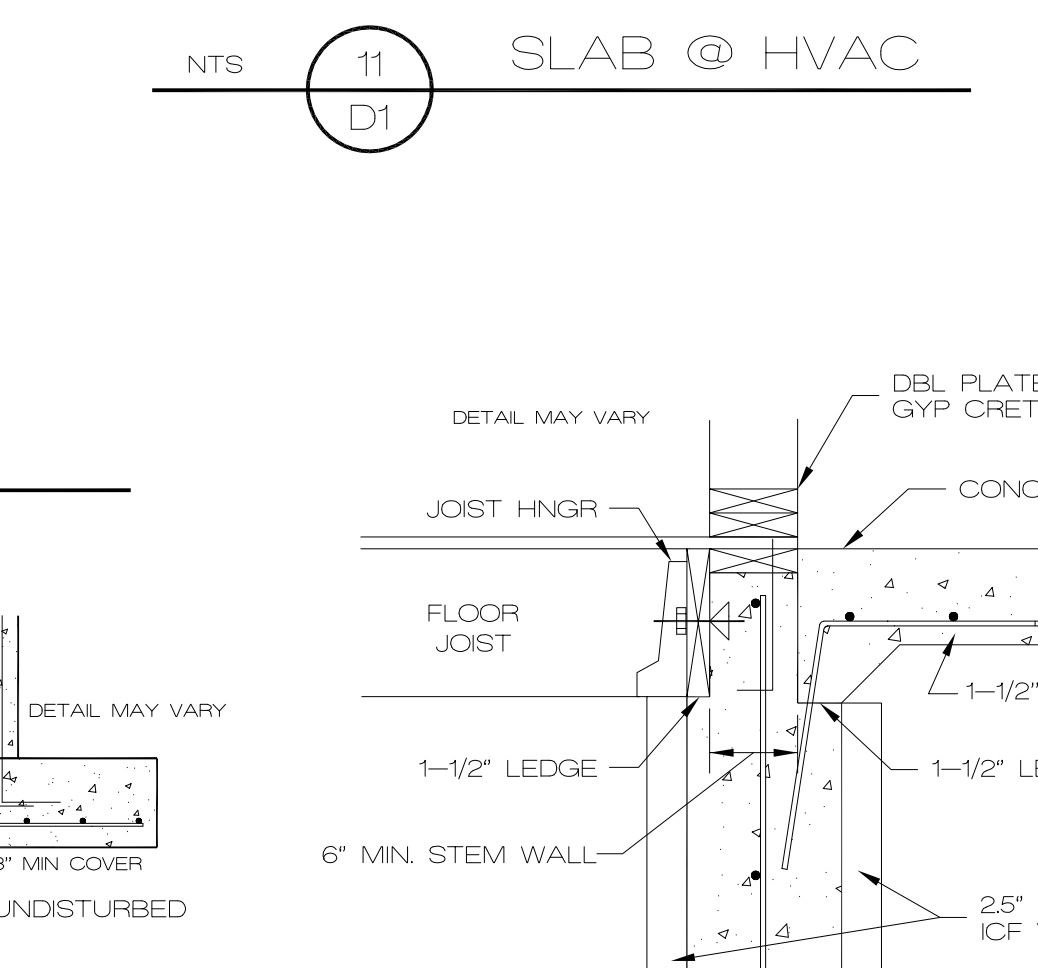
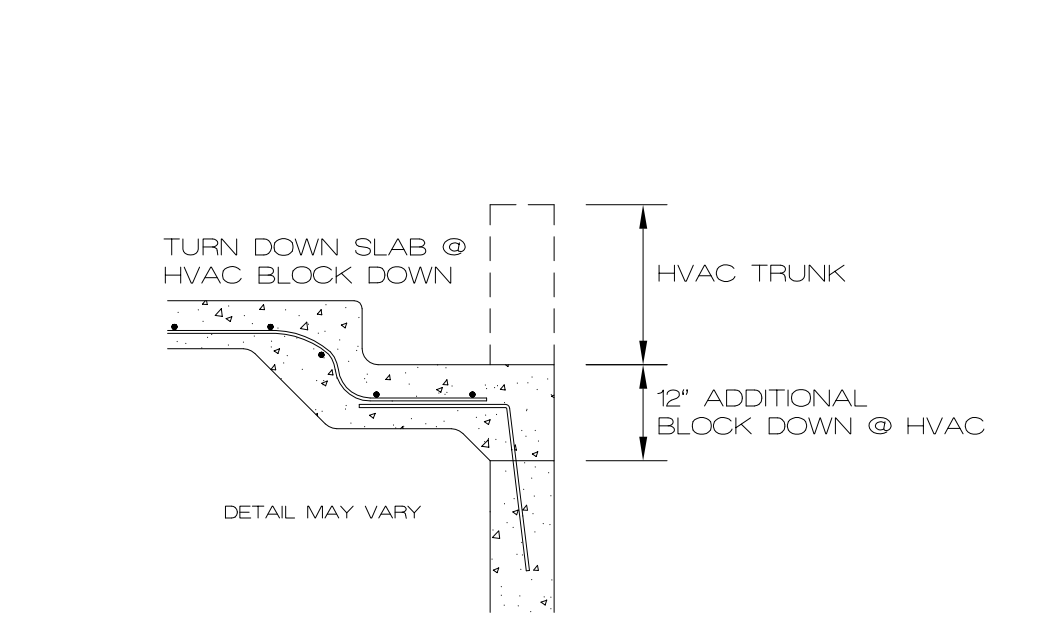


DIVISION 3 - CONCRETE

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 308 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ACI 332 REQUIREMENTS FOR RESIDENTIAL CONCRETE CONSTRUCTION.
 - CEMENT = ASTM C 150 TYPE 1
 - AGGREGATE - ASTM C 33, MAXIMUM AGGREGATE SIZE 3/4"
 - WATER - POTABLE, WATER/CEMENT RATIO 5 (MAX)
 - AIR-ENTRAINING ADMIXTURE - ASTM C 260
 - WATER-REDUCING ADMIXTURE - ASTM C 494, INCLUDING SUPERPLASTICIZERS
 - FLY ASH - ASTM C 618, CLASS C
- CONCRETE SHALL DEVELOP THE FOLLOWING MINIMUM 28 DAY DESIGN COMPRESSIVE STRENGTH (f'_c):
 - FOOTINGS, WALLS, AND SLABS SEE TABLE
 - EXTERIOR SLABS AND CURBS (AIR-ENTRAINED CONCRETE) SEE TABLE

CONCRETE PROPORTIONS SHALL BE ESTABLISHED ON THE BASIS OF FIELD EXPERIENCE AND/OR TRIAL MIXTURES IN ACCORDANCE WITH ACI 318-89 SECTIONS 5.2 AND 5.3. WHEN FLY ASH IS UTILIZED IN THE MIX, MIX SHALL CONTAIN A WATER-REDUCER. FLY ASH SHALL BE ADDED AT THE RATE OF NOT MORE THAN 100 POUNDS PER CUBIC YARD AND CEMENT SHALL BE REDUCED BY NOT MORE THAN 15 PERCENT BY WEIGHT.

- PROPORTION AND DESIGN MIXES TO RESULT IN CONCRETE SLUMP AT A POINT OF PLACEMENT OF NOT MORE THAN 4" TO 5".
- USE AIR-ENTRAINING ADMIXTURES IN EXTERIOR EXPOSED CONCRETE TO RESULT IN CONCRETE AT POINT OF PLACEMENT HAVING AIR CONTENT OF 5 TO 7 PERCENT ENTRAINED AIR.
- ALL PLUMBING AND ELECTRICAL ROUGH-INS MUST BE COMPLETE, INSPECTED AND APPROVED BEFORE REQUESTING THE SLAB INSPECTION.
- CONCRETE WORK EXECUTION:
 - MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE, UNLESS NOTED OTHERWISE ON DRAWINGS:
 - CAST AGAINST AND EXPOSED TO EARTH 3"
 - EXPOSED TO EARTH OR WEATHER 2"
 - NOT EXPOSED TO EARTH OR WEATHER 1 1/2"
 - IN CORNERS OF GRADE BEAMS PROVIDE CORNER REINFORCEMENT, LAP TWO FEET EACH DIRECTION IN OUTSIDE FACE, MATCHING SIZE AND SPACING OF HORIZONTAL REINFORCEMENT.
 - PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE AT NOT GREATER THAN 20 FEET ON CENTER IN EACH DIRECTION. SAW CUT CONTROL JOINTS MINIMUM 1/4 OF THE SLAB DEPTH, AS SOON AFTER SLAB FINISHING AS POSSIBLE WITHOUT DISLODGING AGGREGATE. (DO NOT SAW CUT STRUCTURAL SLABS w/o APPROVAL).
- BATCH TICKETS SHALL BE SUBMITTED TO A CONTRACTORS REPRESENTATIVE PRIOR TO OFF LOADING. ANY CONCRETE MORE THAN 45 MINUTES OUT PRIOR TO STARTING PLACEMENT SHALL BE REJECTED.
- THE MAXIMUM ADDITION OF WATER SHALL BE LIMITED TO 1 GALLON PER YARD, NOTE THAT THIS ADDITION SHALL BE USED TO CONTROL HEAT ONLY (NOT SLUMP).
- PUMPS SHALL NOT BE PRIMED IN FORMS.
- REINFORCEMENT:
 - ALL REINFORCING BARS SHALL BE A615, GR40 MIN. LAP SPICES 18" MIN FOR #4 BAR SEE TABLE
 - WELDED WIRE FABRIC SHALL BE ASTM A185, LAP AT LEAST ONE FULL MESH AND LACE SPICES WITH WIRE
 - REBAR SHALL BE CLEAN, AND FREE FROM RUST AND OIL PRIOR TO THE PLACEMENT OF CONCRETE. REBAR SHALL BE TIED AND SECURED AS REQUIRED TO PREVENT DISPLACEMENT IN THE FORMS.
 - TIE STEEL TO PREVENT DISPLACEMENT. HOOK AND TIE STEEL AS POSSIBLE. TIES, CHAIRS, OR OTHER PRODUCTS SHALL BE PROTECTED WHEN LOCATED NEAR EXPOSED SURFACES.
 - STEEL SHALL BE STORED ON SITE ABOVE GRADE, AND COVERED AS REQUIRED FOR PROTECTION FROM RAIN AND OTHER POSSIBLE DAMAGE.
- ADJUST FOUNDATION FOR SITE AND SOIL CONDITIONS AND VERIFY WITH EOR.



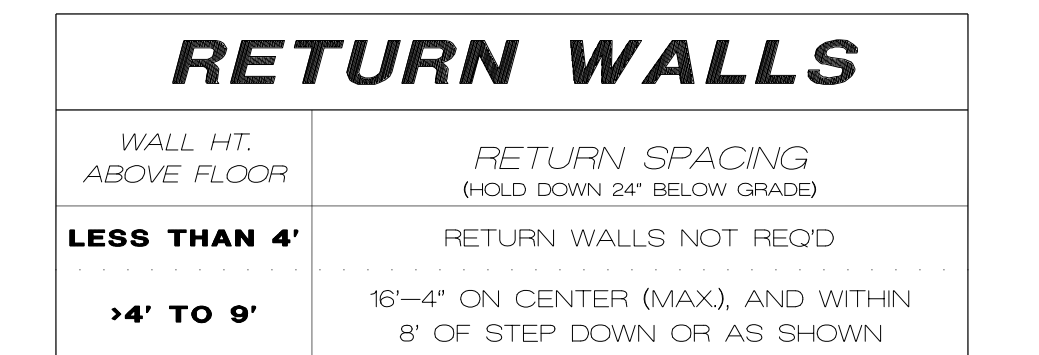
DIVISION 4 - MASONRY

- COMPRESSIVE STRENGTH OF CONCRETE MASONRY CONSTRUCTION (CMU) SHALL BE AS FOLLOWS (PSI). MASONRY STRENGTH NOT SPECIFICALLY NOTED ON PLAN SHALL BE (f'_m) 1500 PSI.

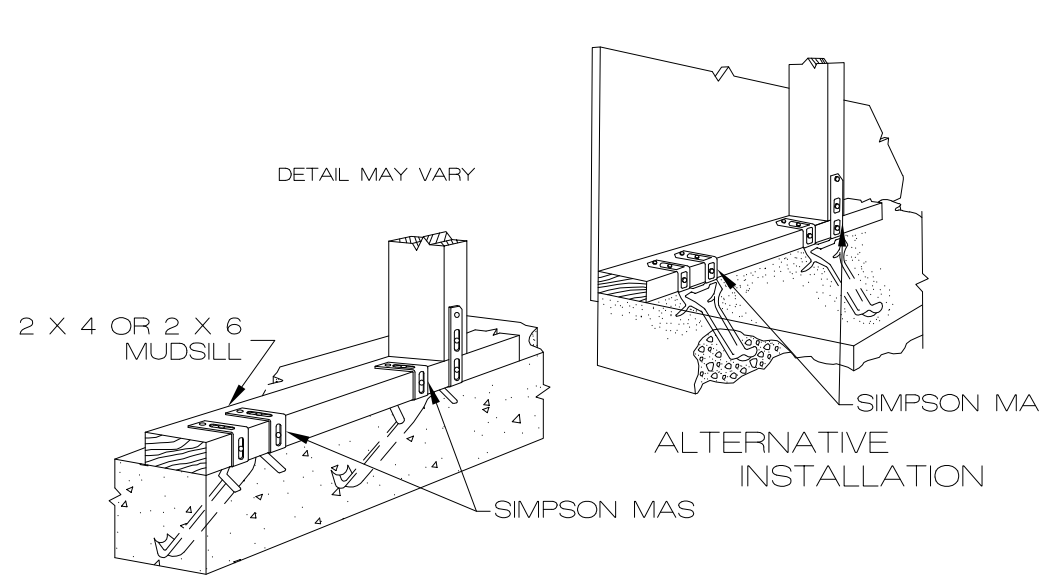
MASONRY STRENGTH (f' _m DESIGN)	1500
BLOCK STRENGTH	1900
MORTAR STRENGTH	800
GROUT STRENGTH	2000
- CONCRETE BLOCK SHALL BE HOLLOW LOAD-BEARING CONCRETE CONFORMING TO ASTM C 90, TYPE N-III. ALL BLOCKS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION (UNLESS OTHERWISE NOTED) WITH ALL VERTICAL CELLS IN ALIGNMENT.
- MORTAR MIX SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 270, TYPE M OR S. TYPE M MORTAR SHALL BE USED WHERE MASONRY IS IN CONTACT WITH SOIL.
- GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 476, USE SUFFICIENT WATER FOR GROUT TO FLOW INTO ALL JOINTS OF THE MASONRY WITHOUT SEGREGATION. ALL CELLS IN CONCRETE BLOCKS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT. ALL MASONRY BELOW FINISHED FLOOR OR GRADE SHALL BE GROUTED SOLID. HOLD GROUT DOWN 1-1/2" BELOW TOP OF BLOCK AT GROUT LIFT JOINTS AND AT CONCRETE PLACED OVER MASONRY.
- MINIMUM INTEL, WHERE NOT ON PLANS, SHALL HAVE A MINIMUM OF 2 - #5s CONTINUOUS HORIZONTAL BARS IN BOTTOM OF BOND BEAM OR INTEL BLOCK AND SHALL BE GROUTED SOLID TO A MIN. DEPTH OF 24". ALL INTEL REINFORCING AND GROUT SHALL EXTEND 2' MINIMUM PAST JAMBS UNLESS NOTED OTHERWISE ON PLANS OR DETAILS.
- LAP REINFORCING 48 BAR DIAMETERS. STAGGER LAP SPICES A MINIMUM OF ONE LAP LENGTH.
- MASONRY VENEER SHALL BE ATTACHED TO SUPPORT WALL FRAMING WITH 3/8" DIAMETER WALL TIES OR DOVETAIL-TYPE METAL TIES OF EQUIVALENT STIFFNESS EMBEDDED INTO HORIZONTAL MORTAR JOINTS. MAXIMUM VERTICAL SPACING OF TIES SHALL BE 16". MAXIMUM HORIZONTAL SPACING SHALL BE 24". TIES IN ALTERNATE COURSES SHALL BE STAGGERED. PROVIDE #9 WIRE REINFORCING IN HORIZONTAL MORTAR JOINTS AT 16" OC. ENGAGE #9 WIRE WITH WALL ANCHOR TIES. CONSTRUCTION JOINTS IN MASONRY VENEER WALLS SHALL BE LOCATED PER THE DRAWINGS.
- WATERPROOFING, DRAINAGE PLANE, AND INSTALLATION PER ADOPTED BUILDING CODE.

DIVISION 5 - MISC. STRUCTURAL STEEL

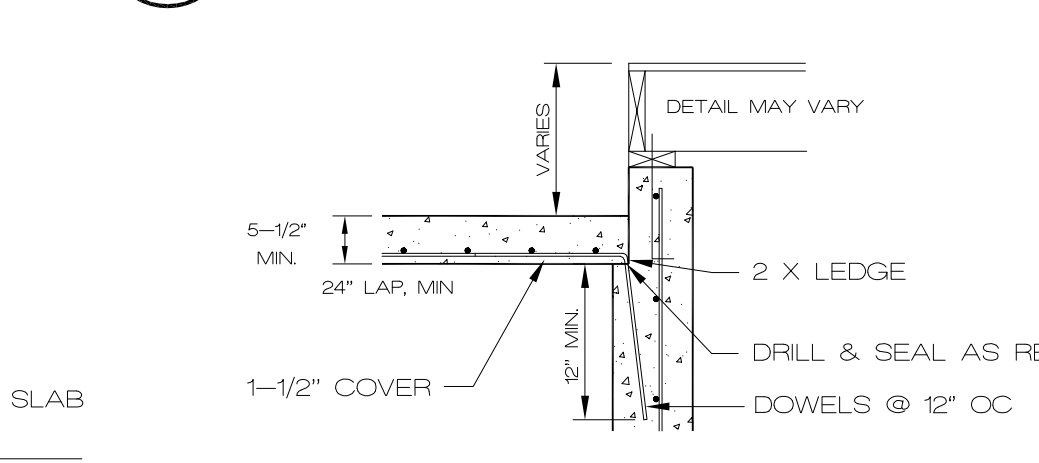
- ALL MISCELLANEOUS STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC SPECIFICATIONS FOR DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
 - STRUCTURAL STEEL - ASTM A992
 - STEEL PIPE COLUMNS - ASTM A53 GRADE B(Sch 40 TP)
 - ANCHOR BOLTS - ASTM A307 GRADE A, NON-HEADED TYPE UNLESS OTHERWISE NOTED.
- MISCELLANEOUS STRUCTURAL STEEL MATERIAL SHALL COMPLY WITH:
 - STRUCTURAL STEEL - ASTM A992
 - STEEL PIPE COLUMNS - ASTM A53 GRADE B(Sch 40 TP)
 - ANCHOR BOLTS - ASTM A307 GRADE A, NON-HEADED TYPE UNLESS OTHERWISE NOTED.
- FITCH PLATES SHALL HAVE 3/4" DIA. BOLTS @ 16" OC, STAGGERED TOP AND BOTTOM BETWEEN JOIST LAYOUT.



* RETURN WALLS ALLOW FOR BACKFILL w/o FLOOR DECK IN PLACE FOR 60 PCF EQUIVALENT FLUID WEIGHT SOIL. NO HEAVY EQUIPMENT OR SURCHARGE LOADING.



NTS (D1) OPT. MUDSILL ANCHORAGE ALTERNATIVE TO J-BOLTS



NTS (D1) SLAB @ WALL SLAB ON FILL CONCRETE OR CMU

CONC STRENGTH	
FTG	3000 psi
WALL	3500 psi
SLAB	3500 psi
SUS-SLAB	7 SACK MIX

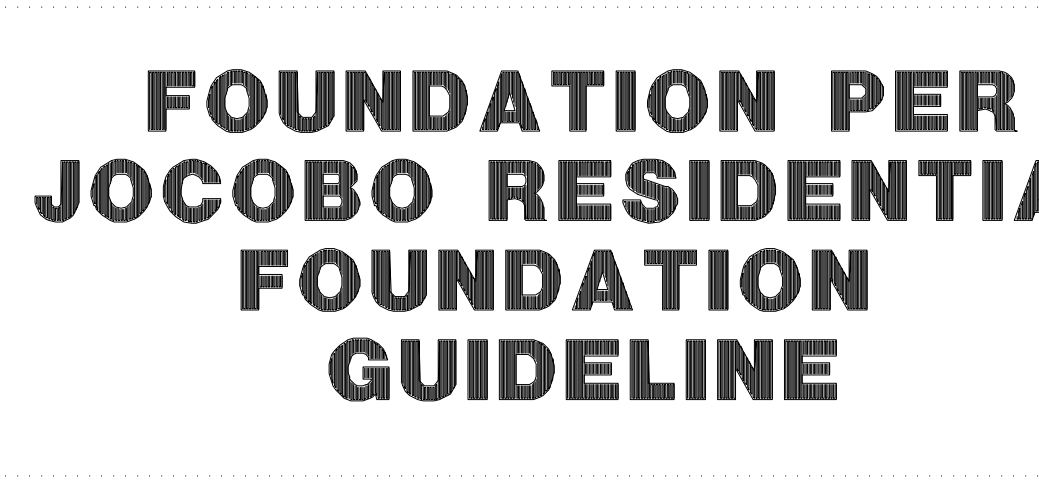


DIVISION 6 - ROUGH CARPENTRY

- ALL ROUGH CARPENTRY WORK SHALL CONFORM TO THE REQUIREMENTS OF NIPA NATIONAL DESIGN SPECIFICATIONS OF WOOD CONSTRUCTION, TP1 DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES, APA PLYWOOD DESIGN SPECIFICATIONS, DOC PS 1 PRODUCT STANDARD FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD, DOC PS 56 STRUCTURAL GLUED LAMINATED TIMBER, AND APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE.
- ROUGH CARPENTRY MATERIALS SHALL COMPLY WITH:
 - LUMBER - S4S, S-DRY, KD, OR S-GRN GRADE MARKED, COMPLYING WITH PS 20, GRADED UNDER WWPA OR SPIB RULES.
 - STUDS: STUD GRADE
 - HEADER: #2 DOUGLAS FIR MIN TYPICAL
 - RAFTER: #2 DOUGLAS FIR
 - PLATES: #2 DOUGLAS FIR
 - BLOCKING: #2 DOUGLAS FIR
 - METAL FRAMING FASTENERS - ASTM A 153, HOT-DIP GALVANIZED FASTENERS, EQUAL TO SIMPSON STRONG-TIE CONNECTORS COMPLYING WITH APPLICABLE ICC-ES REPORTS.
 - PLYWOOD - APA RATED SHEATHING, COMPLYING TO PS 1.
 - LVL - LAMINATED VENEER LUMBER SHALL BE GRADE 2800 F-20E AND SHALL MEET THE REQUIREMENTS OF APPLICABLE ICC-ES REPORTS.
 - GLULAM BEAMS - COMBINATION 24F-V3 IN ACCORDANCE WITH AITC A1901.
- EXTERIOR WALL AND ROOF SHEATHING SHALL BE 5/8" APA RATED SHEATHING 24/0 EXTERIOR GLUED (MIN FOR 16" OC STUD SPACING, NAIL SHEATHING TO SUPPORT MEMBERS WITH 8D COMMON NAILS AT 6" ON CENTER ALONG EDGE SUPPORTS AND 12" ON CENTER ALONG FIELD SUPPORTS UNLESS NOTED OTHERWISE. PROVIDE SOLID BLOCKING AT ALL UNSUPPORTED PANEL EDGES, 4/8 GUN NAILS.

NOTE: ROOF SHEATHING SHALL BE 5/8" APA RATED SHEATHING FOR TILE ROOF, OR AS REQUIRED BY MANUFACTURER.
- INTERIOR SHEAR WALL SHEATHING WHERE NOTED SHALL BE 5/8" APA RATED SHEATHING 24/0 EXTERIOR GLUED (MIN FOR 16" OC STUD SPACING, NAIL SHEATHING TO SUPPORT MEMBERS WITH 8D COMMON NAILS AT 4" ON CENTER ALONG EDGE SUPPORTS AND 6" ON CENTER ALONG FIELD SUPPORTS UNLESS NOTED OTHERWISE. PROVIDE SOLID BLOCKING AT ALL UNSUPPORTED PANEL EDGES.
- ATTACH METAL FRAMING FASTENERS TO FRAMING MEMBERS WITH MINIMUM NUMBER AND SIZE OF NAILS LISTED IN THE APPLICABLE ICC-ES REPORTS.
- WOOD TRUSS SYSTEM, TRUSS JOIST SYSTEM AND GLULAM SYSTEM FOR ROOFS:
 - DESIGN, FABRICATE, AND ERECT IN ACCORDANCE WITH BCSI STANDARDS AND NDS SPECIFICATIONS.
 - DESIGN LOADS:
 - 25 PSF SNOW LIVE LOAD
 - 10 PSF DEAD LOAD TOP CHORD (20 TILE)
 - 10 PSF DEAD LOAD BOTTOM CHORD
 - SUBMIT SHOP DRAWINGS, INCLUDING DESIGN CALCULATIONS, MATERIAL STRESSES, GRADE AND SPECIES OF WOOD, AND PLACEMENT DRAWING.
- DEFAULT HEADER SIZE NOT SPECIFIED SPANNING 8'-0" MAX SHALL BE 2 - 2 X 10 #2, WITH 2 STUD SUPPORT.
- ALL HEADERS OVER 4'-0" SHALL HAVE DOUBLE TRIMMER @ EACH SUPPORT, OR AS SPECIFIED, UNO.
- SOLID BLOCKING BETWEEN JOISTS @ 36" OC FOR JOISTS PARALLEL TO THE EXTERIOR FOUNDATION WALL, MIN. 48" OR 3 JOIST SPACES.
- ALL FLUSH FRAMING @ HEADERS OR GIRDERS SHALL BE HANGERED.
- BLOCK BETWEEN JOISTS @ SUPPORTS OR OVER BEAMS.
- RATED CONSTRUCTION FOR PROJECTIONS INTO SETBACKS AS REQ'D.
- DOUBLE JOIST BELOW PARALLEL NONBEARING WALLS ON LAYOUT, SINGLE JOIST OR JOIST JOINT STRUCTURE BELOW LOAD-BEARING WALLS AS NOTED ON PLANS.

FOUNDATION PER JACOBO



NTS (D1) WALL REINFORCEMENT

WALL REINFORCING	
8" THICK	10" THICK
8', 9'	8', 9', 10'
3000, GR40	16 12 24 16 12
3500, GR40	16 12 24 16 12
3000, GR60	24 16 24 20 16
3500, GR60	24 16 24 24 16

HOR. REIN. MIN. GR40 #4

One bar 12" from top & 24" oc max

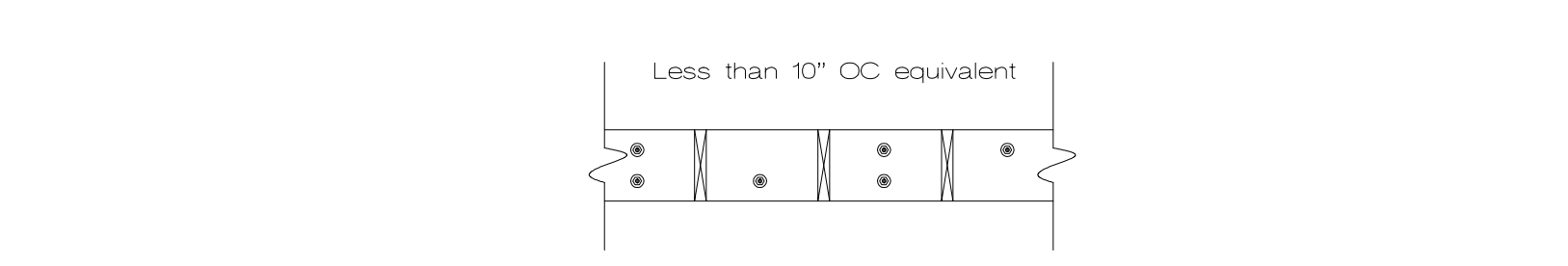
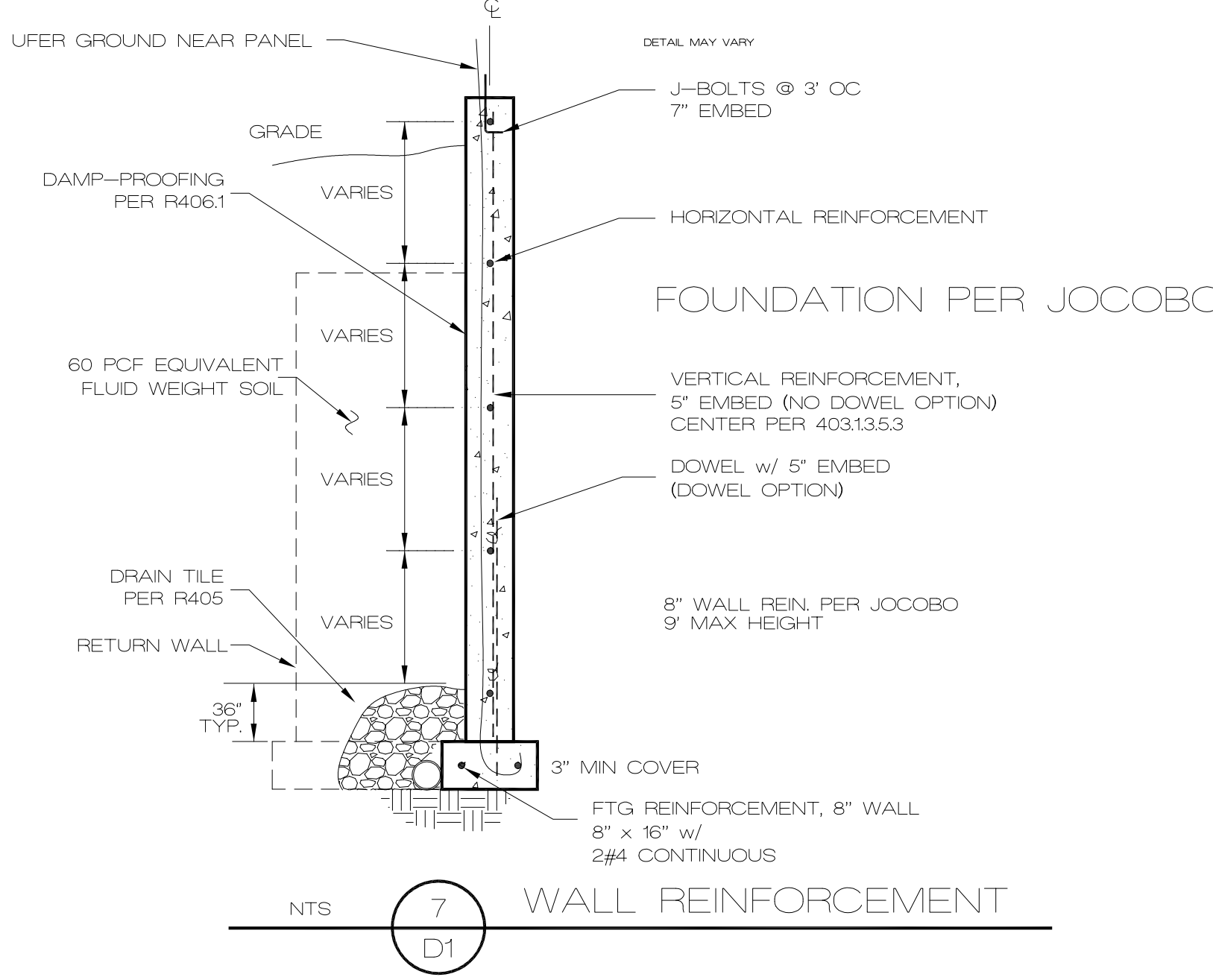
$$M_{max} = \frac{w_u \cdot L^2}{14} \rightarrow 27206 \text{ #-in}$$
$$a = \frac{A_s \cdot f_y}{0.85 \cdot f'_c \cdot b} = \frac{40000 \cdot 0.2}{0.85 \cdot 3500 \cdot 12} = 0.22"$$
$$\phi M_n = \phi A_s \cdot f_y \cdot (d - \frac{a}{2}) = 0.9(0.22)(40000)(4 - 0.22/2) = 28008 \text{ #-in} > 27206 \text{ (OKAY)}$$

∴ Use #4 @ 12" OC EW 12'-6" (+/-) MODULE

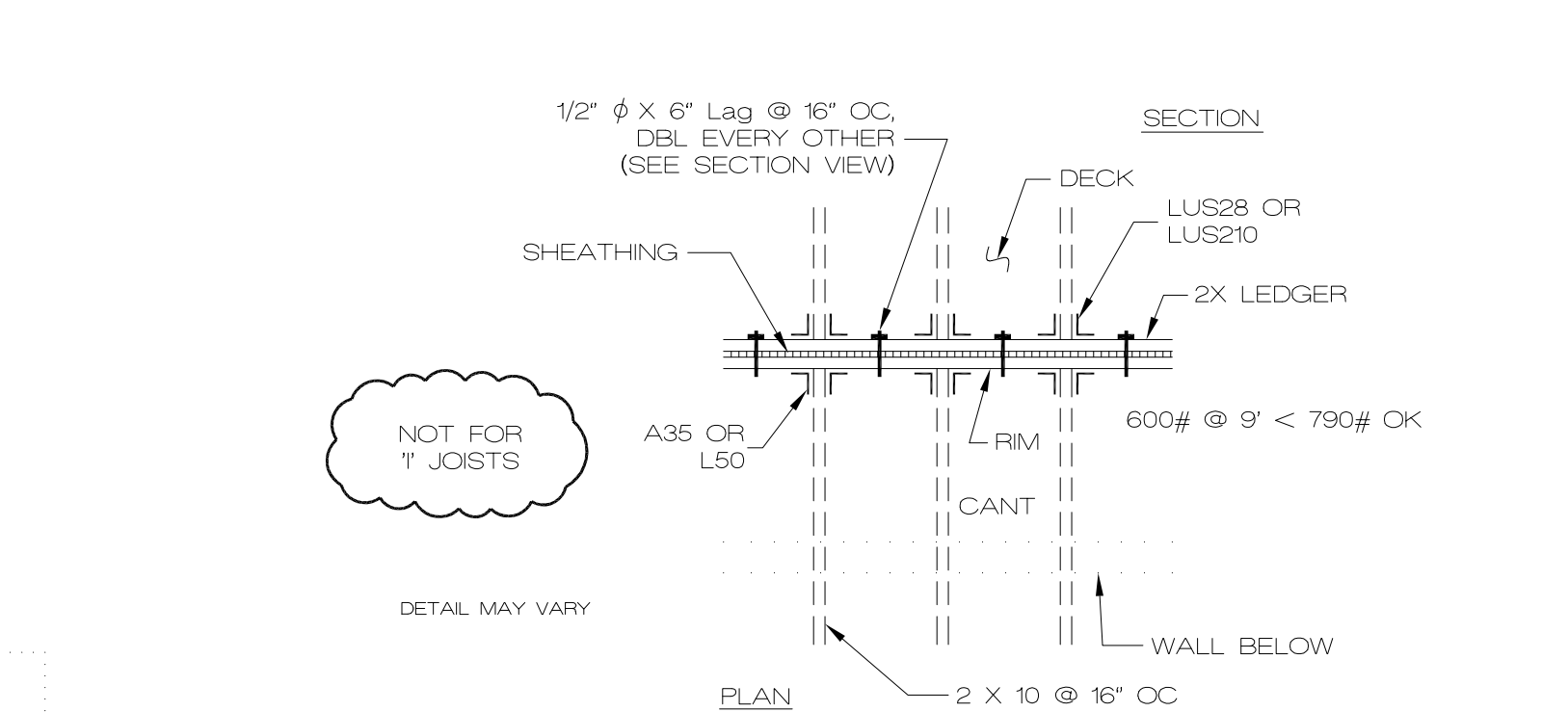
$$M_{max} = \frac{w_u \cdot L^2}{14} \rightarrow 25951 \text{ #-in}$$
$$a = \frac{A_s \cdot f_y}{0.85 \cdot f'_c \cdot b} = \frac{40000 \cdot 0.2}{0.85 \cdot 3500 \cdot 12} = 0.22"$$
$$\phi M_n = \phi A_s \cdot f_y \cdot (d - \frac{a}{2}) = 0.9(0.22)(40000)(4 - 0.22/2) = 28008 \text{ #-in} > 25951 \text{ (OKAY)}$$

∴ Use #4 @ 12" OC EW 15'-6" (+/-) MODULE

FOUNDATION PER JACOBO



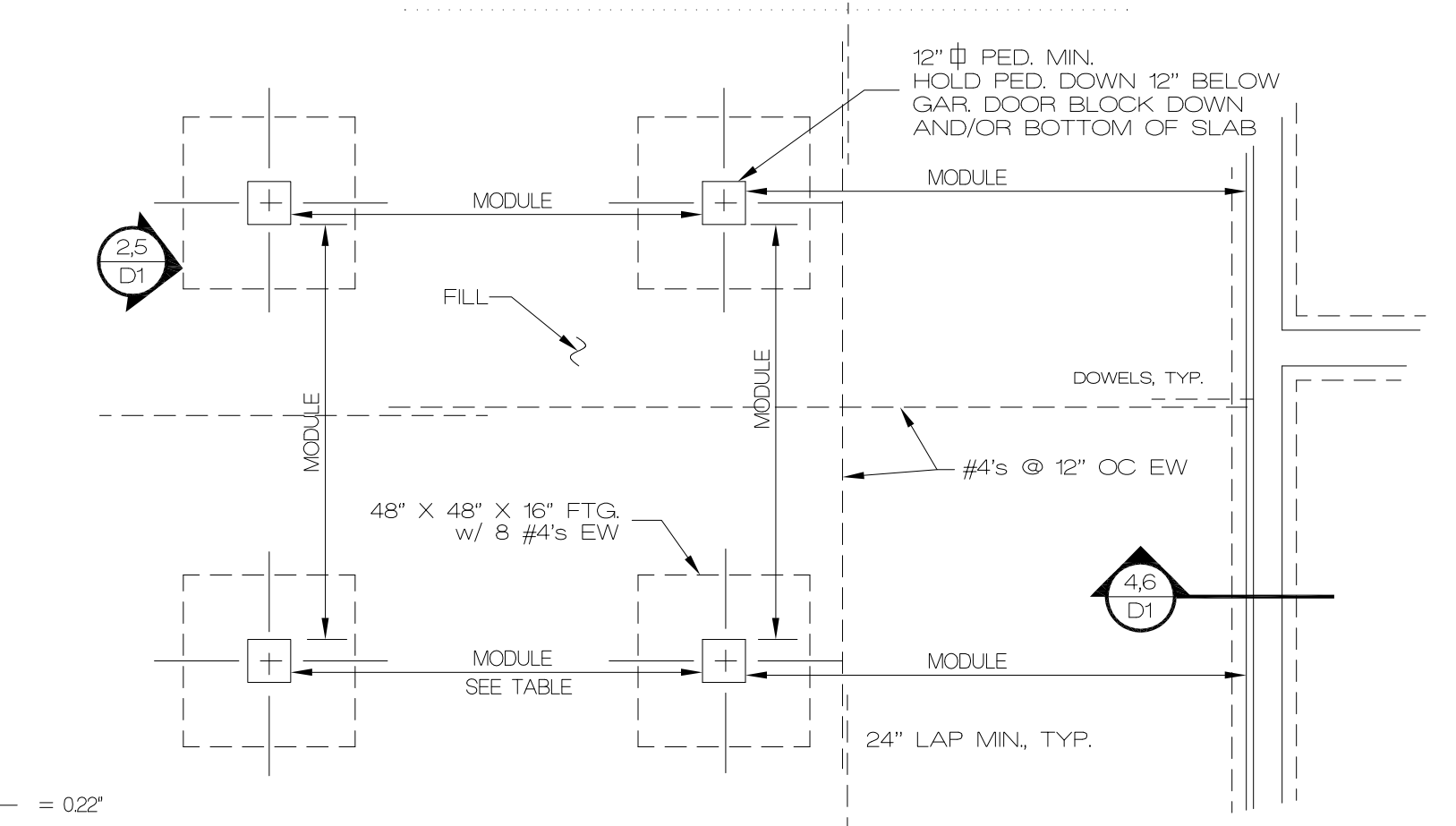
NTS (D1) DECK LEDGER 18' max Joist Span



NTS (D1) DECK @ CANTILEVER

STRUCT. SLAB MODULE SPACING	
SLAB TYPE	MODULE SPACING
BASEMENT	15'-6"
GARAGE	12'-6"

(MODULE ALSO APPLIES @ OVERDIG)



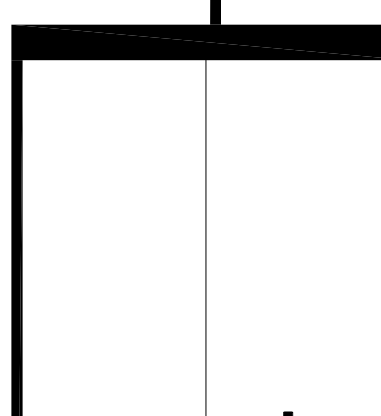
NTS (D1) STRUCTURAL SLAB ON FILL

DO NOT SAW CUT STRUCTURAL SLABS w/o APPROVAL
VERIFY ALL STRUCTURAL SLAB DETAILS w/ ENGINEER
DO NOT ISOLATE COLUMNS FROM STRUCTURAL SLABS

Ken Sidorowicz, PC

P.O. Box 12089, Parkville, Missouri 64152
Tel. (816) 741-0852 Fax (816) 741-0858

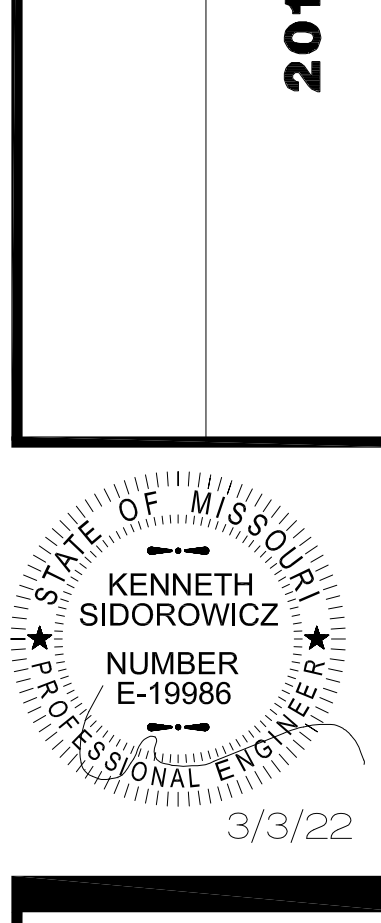
ISSUE DATE
REVISIONS



NTS (D1) STRUCTURAL SLAB ON FILL

STRUCT. SLAB MODULE SPACING	
SLAB TYPE	MODULE SPACING
BASEMENT	15'-6"
GARAGE	12'-6"

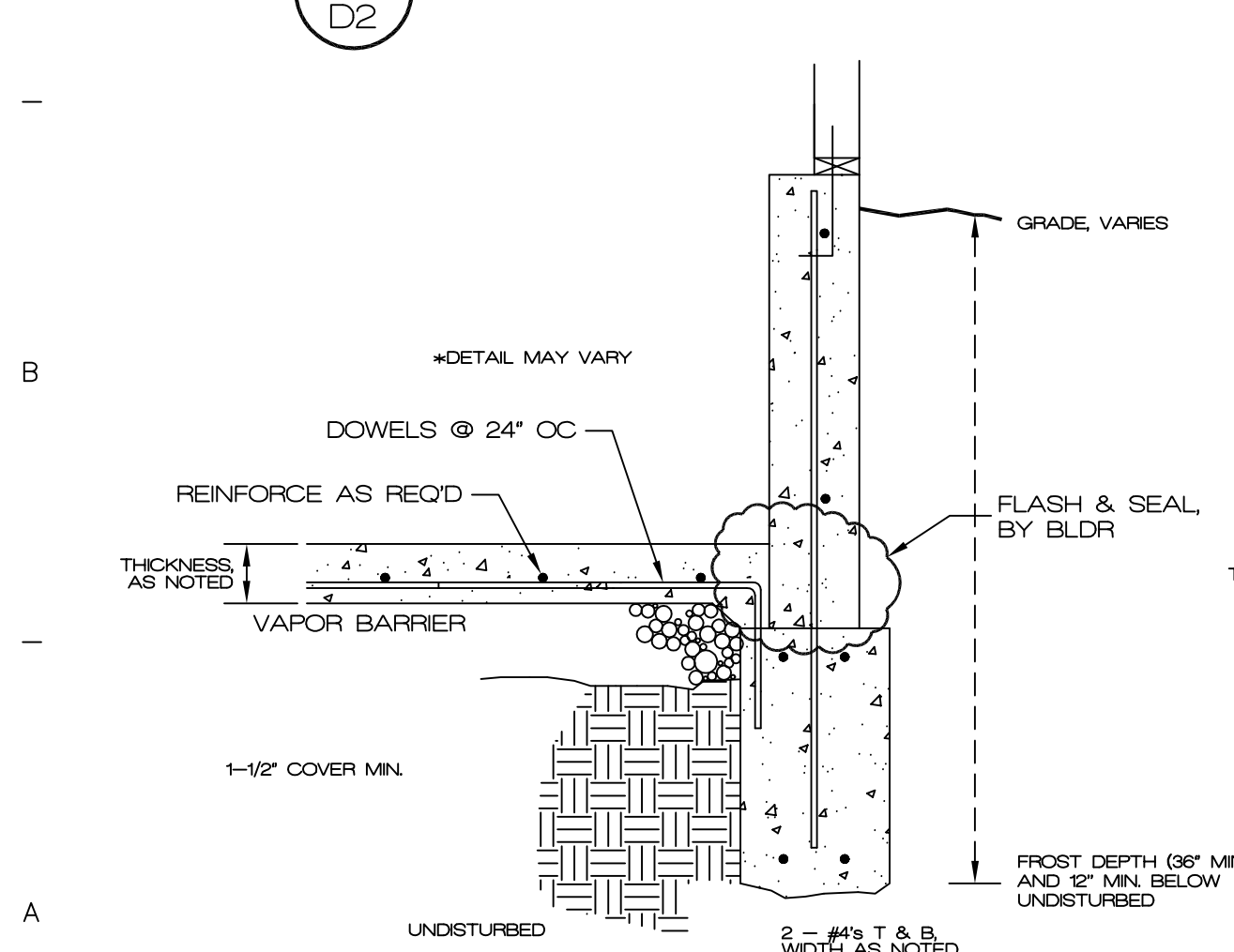
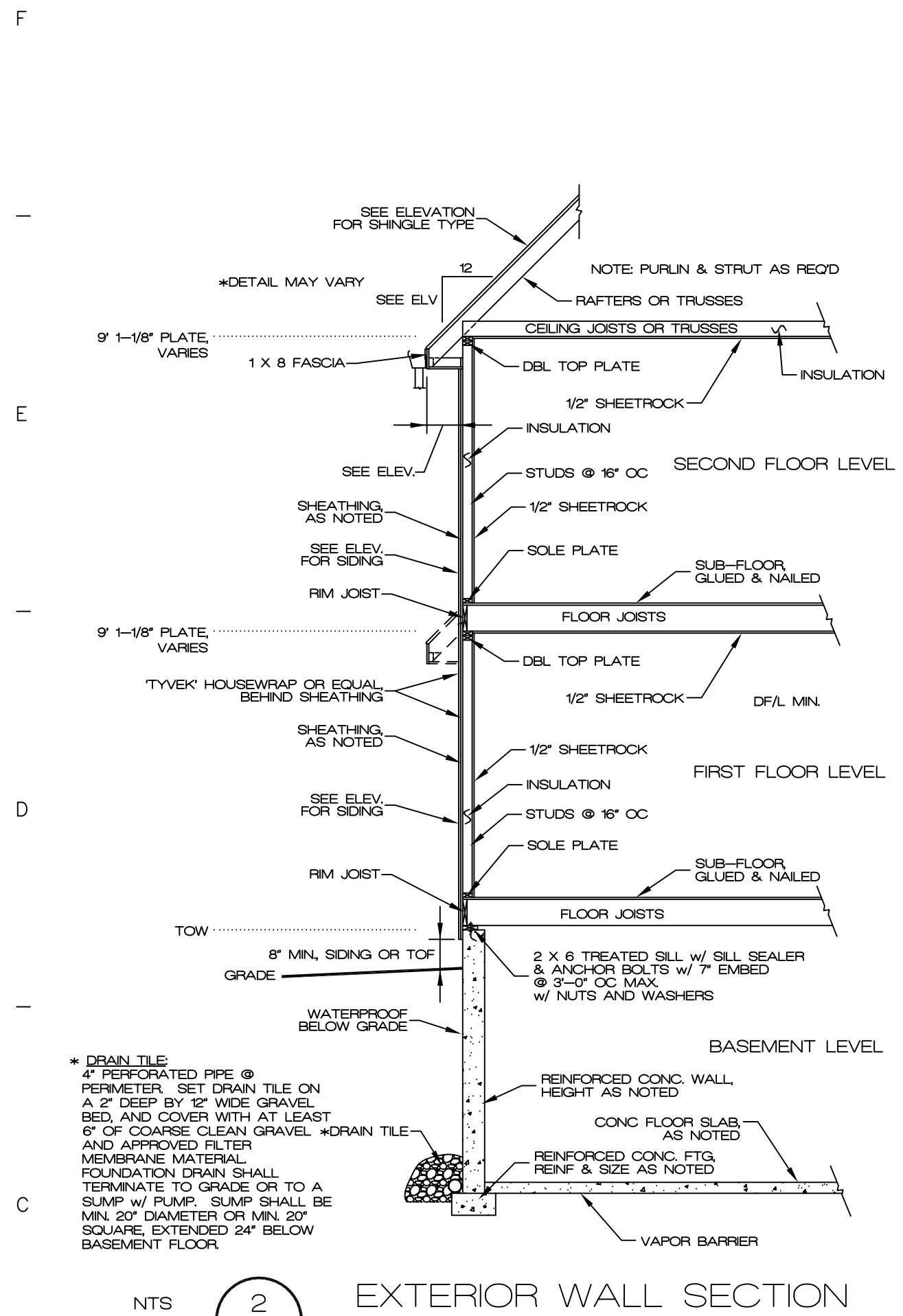
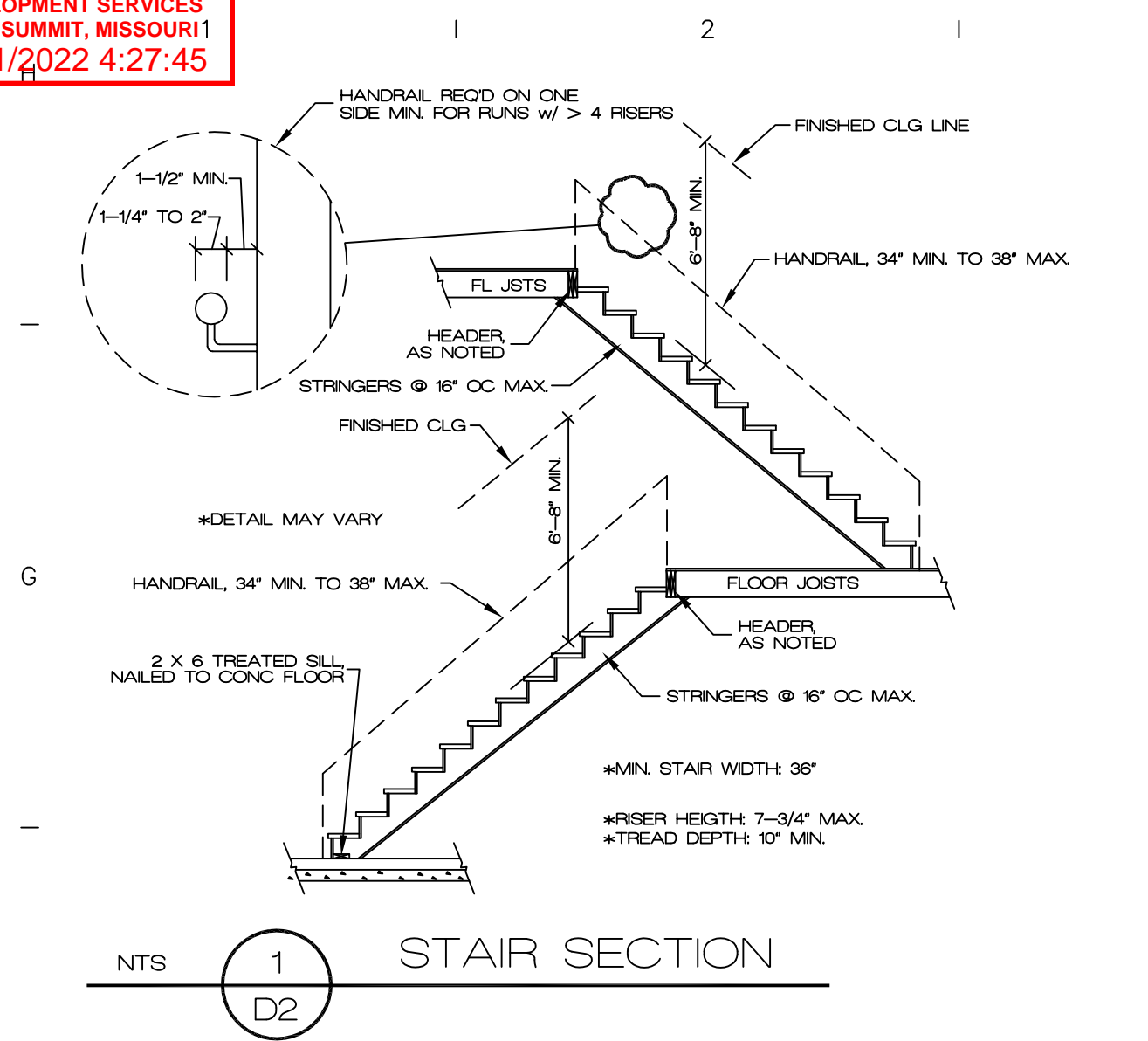
(MODULE ALSO APPLIES @ OVERDIG)



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D1



GENERAL NOTES:

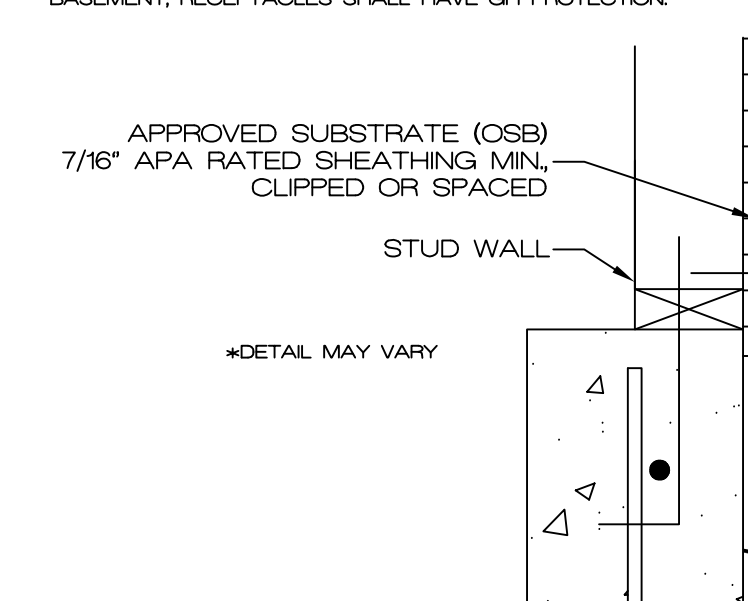
- GLASS: GLAZING IN THE FOLLOWING LOCATIONS SHALL BE OF APPROVED SAFETY GLAZING MATERIALS. STORM DOORS, PANELS ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24\"/>
- SMOKE DETECTORS: PROVIDE SMOKE ALARMS IN EACH SLEEPING ROOM OUTSIDE OF EACH SLEEPING AREA AND ON EACH FLOOR AT THE STAIRS, INCLUDING BASEMENTS. ALARMS SHALL BE INTERCONNECTED SO THE ACTUATION OF ONE ALARM WILL ACTIVATE ALL THE SMOKE DETECTORS IN THE DWELLING.
- CARBON MONOXIDE DETECTORS: REED OUTSIDE EACH SLEEPING AREA IN DWELLING UNITS WITH FUEL-BURNING APPLIANCES AND/OR ATTACHED GARAGES, AND IN APPLIANCE AREAS.
- INSULATION REQUIREMENTS: HERS COMPLIANCE REPORT OR COMPLY WITH 2018 IRC PREScriptive REQUIREMENTS.
- ATTIC VENTILATION: THE NET FREE VENTILATION AREA SHALL BE NOT LESS THAN 1/60 OF THE AREA OF THE SPACE BEING VENTILATED. THE NET VENTILATION AREA MAY BE REDUCED TO 1/300 IF 80% TO 90% OF THE REQUIRED VENTILATION AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED. AT LEAST 3 FT. ABOVE EAVES OR CORNICES. RAFTERS SPACES ENCLOSED BY CEILING DIRECTLY APPLIED TO UNDERSIDE OF RAFTERS SHALL BE USED TO ALLOW A MINIMUM OF 1 INCH CLEAR VENTED AIR SPACE ABOVE THE INSULATION. ATTICS WITH MAXIMUM VERTICAL CLEAR HEIGHT OF LESS THAN 30 INCHES ARE NOT REQUIRED TO HAVE ACCESS OPENING.

THIS REQUIREMENT IS WAIVED FOR A COCOON SYSTEM MAKE-UP AIR REED

- MAKE-UP/COMBUSTION AIR: MAKE-UP OR COMBUSTION AIR SHALL BE PROVIDED FROM OUTSIDE AS REED FOR KIT. EXHAUST OVER 400 cfm, FURNACE OR WH. THRU ROOF OR OUTSIDE WALL.
- HVAC IGNITION SOURCE: EQUIPMENT AND APPLIANCES WITH AN IGNITION SOURCE THAT ARE LOCATED IN THE GARAGE OR GARAGE CLOSET SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 18\"/>
- EXHAUST AIR: ALL EXHAUST FANS SHALL EXHAUST DIRECTLY TO THE BUILDING EXTERIOR.
- GARAGE FLOOR SLOPE: GARAGE FLOORS SHALL SLOPE 2% MIN. TO THE GARAGE DOORS. AN OPEN TRENCH OR AN UNTRAPPED DRAIN THAT DISCHARGES DIRECTLY TO THE TO THE EXTERIOR GRADE.
- FINISHED GRADE: THE FINISHED GRADE OF THE YARD SHALL SLOPE 6\"/>
- WINDOWS: WINDOW FLASHING AND INSTALLATION MANUAL FROM MANUFACTURER SHALL BE ON SITE.
- WATER HEATER: PROVIDE MEANS OF CONTROLLING PRESSURE CAUSED BY THERMAL EXPANSION IF THE WATER SERVICE IS PROTECTED BY A PRESSURE REGULATOR.

A WATER TEMPERATURE LIMITING DEVICE IS REQUIRED ON BATHTUBS AND JACUZZIS LIMITING THE TEMPERATURE TO 120°F.

- SUMP: THE SUMP PRT SHALL BE EQUIPPED WITH A PUMP AND DEDICATED RECEPTACLE. IN UNFINISHED PORTIONS OF THE BASEMENT, RECEPTACLES SHALL HAVE GFI PROTECTION.

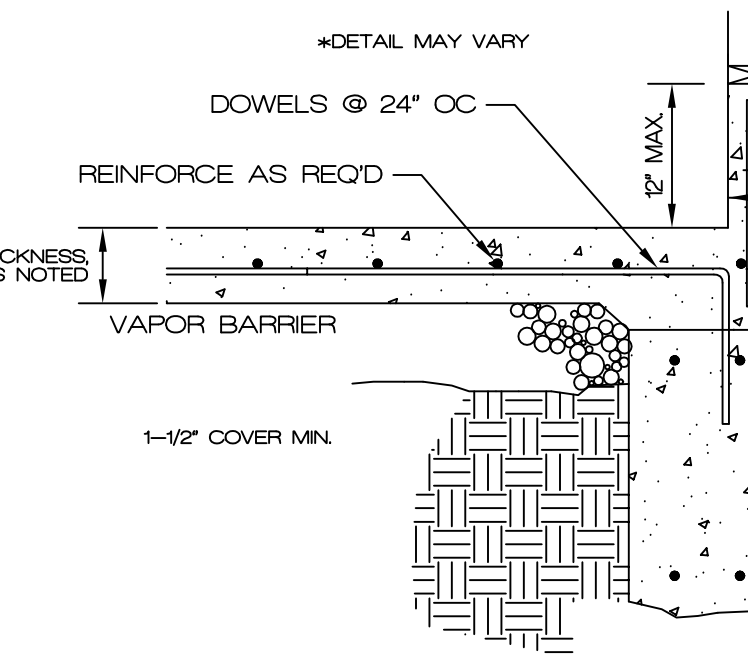


3 COAT STUCCO DETAIL

144 FT² MAX. MODULE FOR CONTROL JOINT GRID

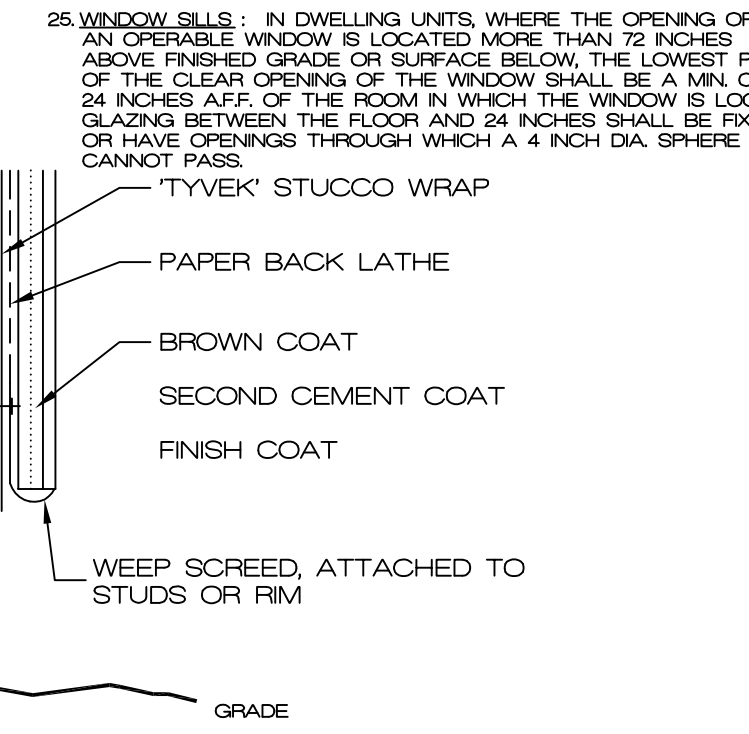
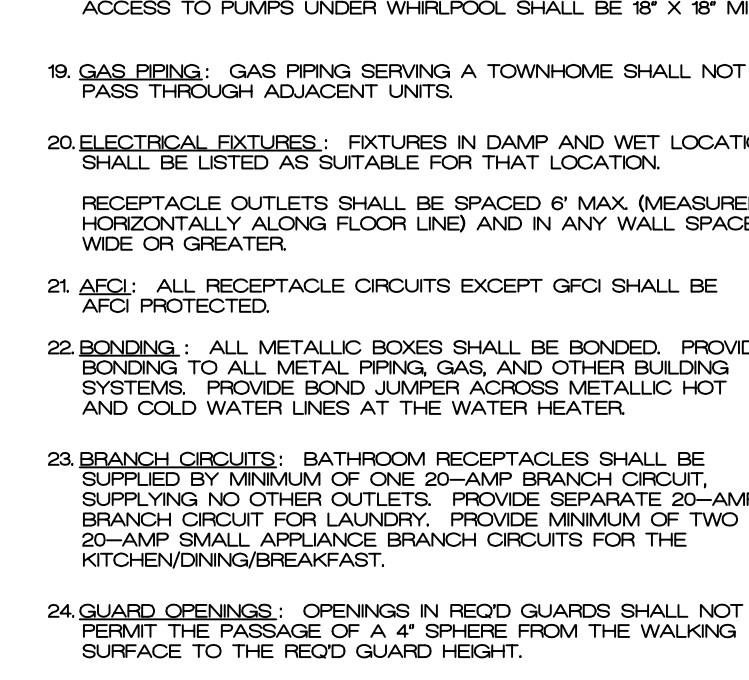
LOAD TABLE		
LOCATION	MIN. DL (PSF)	MIN. LL (PSF)
DECKS & BALCONIES	10	40
CEILING w/o STORAGE	10	10
CEILING w/ LIMITED ACCESS STORAGE	10	20
NON-SLEEPING ROOMS	10	40
SLEEPING ROOMS	10	30
ATTICS SERVED BY MAN DOOR	10	40
ROOF-LIGHT COVERING	10	20
ROOF-HEAVY COVERING	20	20

COMP RE-ROOFS OF SHAKE SHALL REMOVE SKIP SHEATING



- SHOWER/NET WALLS: USE CEMENT BOARD (INSTALLED PER MANU.) BEHIND GLED TILE. DO NOT USE GREEN BOARD. COVER ALL JOINTS WITH WATER RESISTANT SEALANT. FINISH TO EXTEND 1/2\"/>
- COVERS: SHALL BE LOCATED IN THE GARAGE. AT ALL KITCHEN COUNTER RECEPTACLES, IN BATHROOMS, AT ALL OUTDOOR RECEPTACLES AND THOSE WITHIN 6\"/>
- DRYWALL: GARAGES AND ENCLOSED SPACE BELOW STAIRS SHALL HAVE 5/8\"/>
- APPLIANCES: SHALL BE DIRECT VENT. VENT TERMINAL SHALL BE LOCATED PER CODE, WITH THE BOTTOM OF VENT NOT LESS THAN 12\"/>
- ELEVANCE: SHALL HAVE 18\"/>
- LAWN IRRIGATION: THE POTABLE WATER SUPPLY SHALL BE PROTECTED BY BACKFLOW PREVENTION. ALL OUTDOOR RECEPTACLES AND WITHIN 6\"/>
- PLUMBING FIXTURES: FIXTURES WITH A FLOOD LEVEL BELOW THE ELEVATION OF THE NEAT UPSTREAM PUBLIC SEWER MAN-HOLE COVER SHALL BE PROTECTED WITH AN APPROVED BACKWATER VALVE (INCLUDING DRAINAGE DISCHARGE). BASEMENT HOSE CONNECTIONS SHALL HAVE AN ANTI-SIPHON DEVICE INSTALLED. ACCESS TO PUMPS UNDER WHIRLPOOL SHALL BE 18\"/>
- GAS PIPING: GAS PIPING SERVING A TOWNHOME SHALL NOT PASS THROUGH ADJACENT UNITS.
- ELECTRICAL FIXTURES: FIXTURES IN DAMP AND WET LOCATIONS SHALL BE LISTED AS SUITABLE FOR THAT LOCATION.
- RECEPTACLE OUTLETS SHALL BE SPACED 6\"/>
- ADCI: ALL RECEPTACLE CIRCUITS EXCEPT GFCI SHALL BE AFCI PROTECTED.
- BONDING: ALL METALLIC BOXES SHALL BE BONDED. PROVIDE BONDING TO ALL METAL PIPING AND OTHER BUILDING SYSTEMS. PROVIDE BOND JUMPER ACROSS METALLIC HOT AND COLD WATER LINES AT THE WATER HEATER.
- BRANCH CIRCUITS: BATHROOM RECEPTACLES SHALL BE SUPPLIED BY MINIMUM OF ONE 20-AMP BRANCH CIRCUIT, SUPPLYING NO OTHER OUTLETS. PROVIDE SEPARATE 20-AMP BRANCH CIRCUIT FOR LAUNDRY. PROVIDE MINIMUM OF TWO 20-AMP SMALL APPLIANCE BRANCH CIRCUITS FOR THE KITCHEN/DINING/BREAKFAST.
- GUARD OPENINGS: OPENINGS IN REED GUARDS SHALL NOT PERMIT THE PASSAGE OF A 4\"/>
- WINDOW SILLS: IN DWELLING UNITS, WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 18\"/>

THIS REQUIREMENT IS WAIVED FOR A COCOON SYSTEM MAKE-UP AIR REED

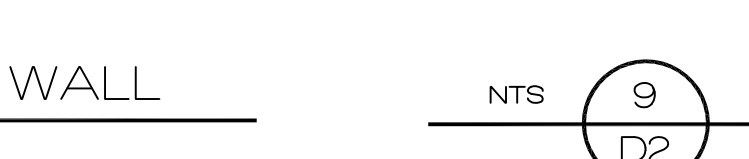
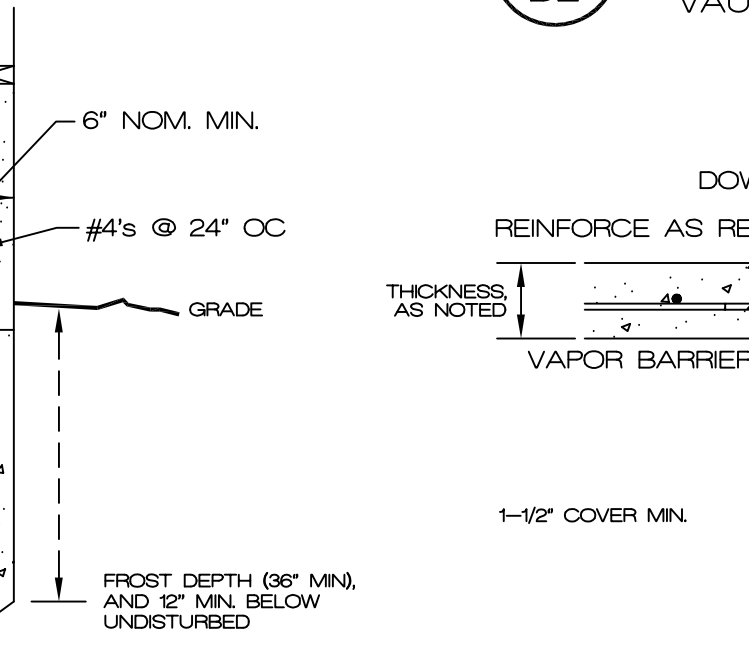


3 COAT STUCCO DETAIL

144 FT² MAX. MODULE FOR CONTROL JOINT GRID

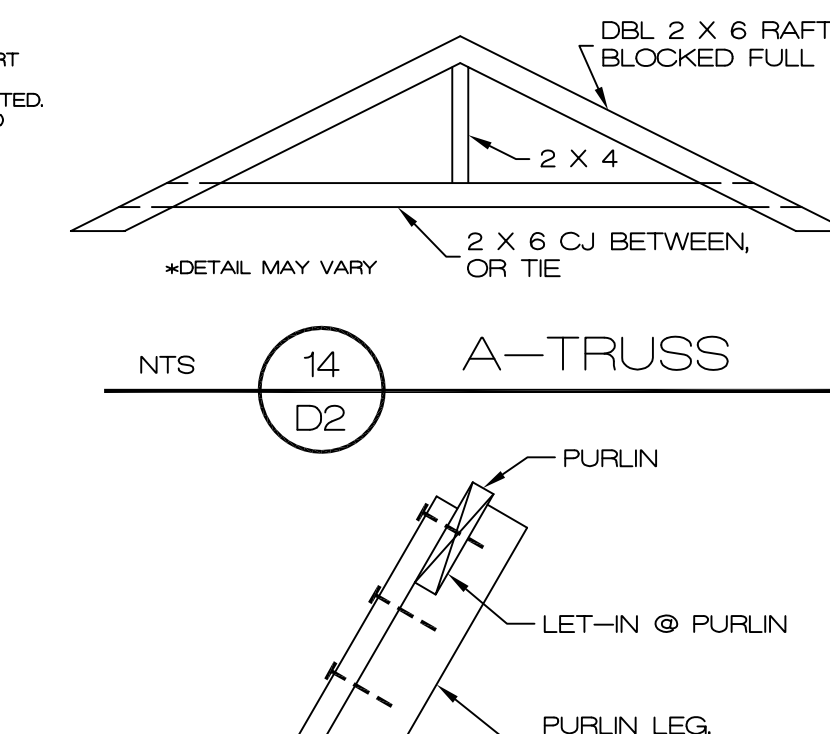
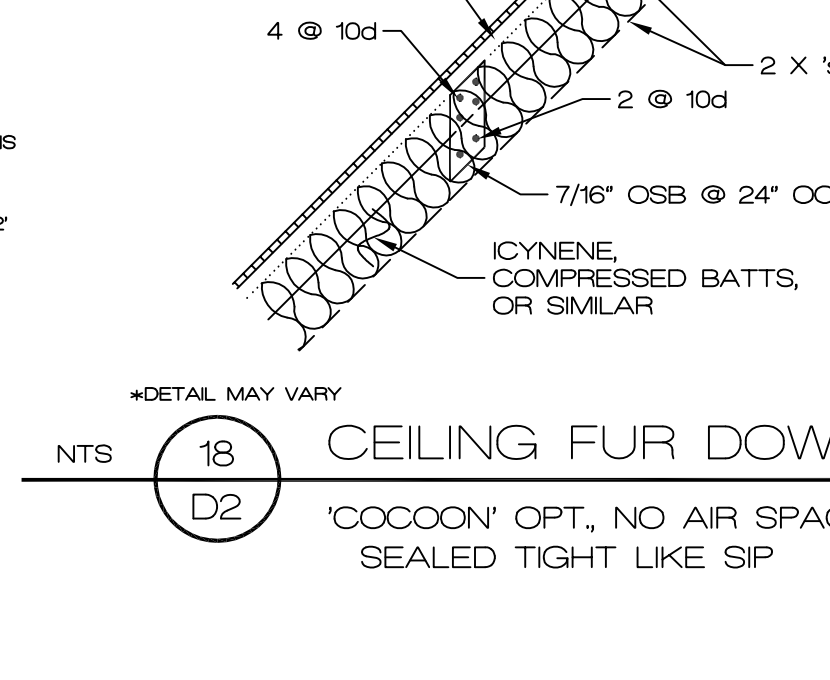
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COMP RE-ROOFS OF SHAKE SHALL REMOVE SKIP SHEATING



- HERS COMPLIANCE PATH:
- THE BUILDING THERMAL ENVELOPE SHALL BE SEALED PER 2018 IRC SECTION N102.41 AND TABLE N102.4.11
- DUCTS, AIR HANDLERS, FILTER BOXES AND BUILDING CAVITIES USED AS DUCTS SHALL BE SEALED PER 2018 IRC SECTION N103.32

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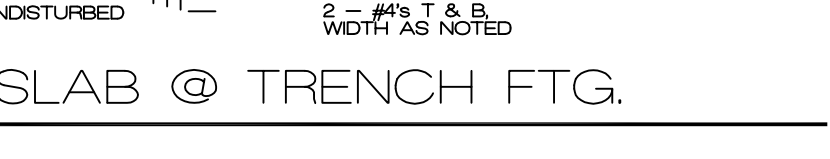
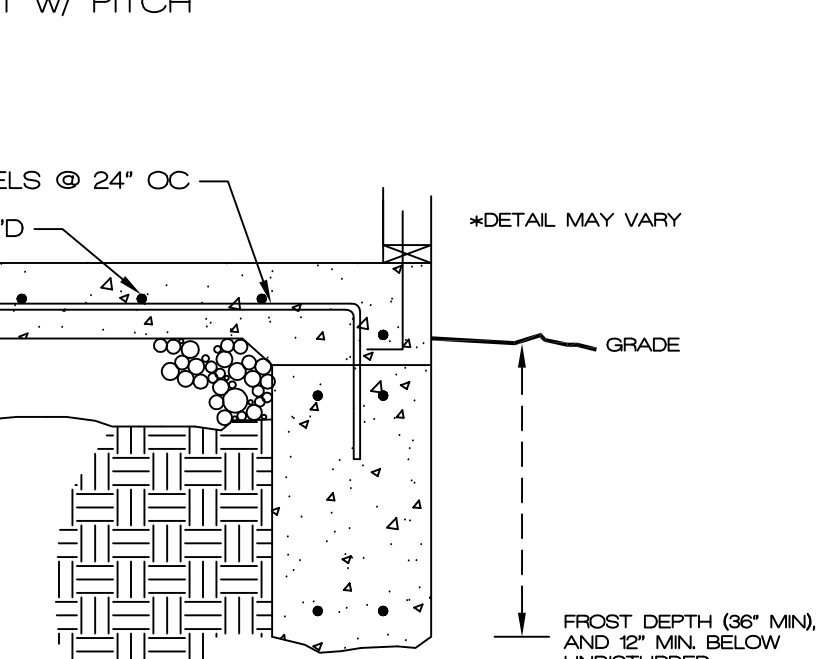


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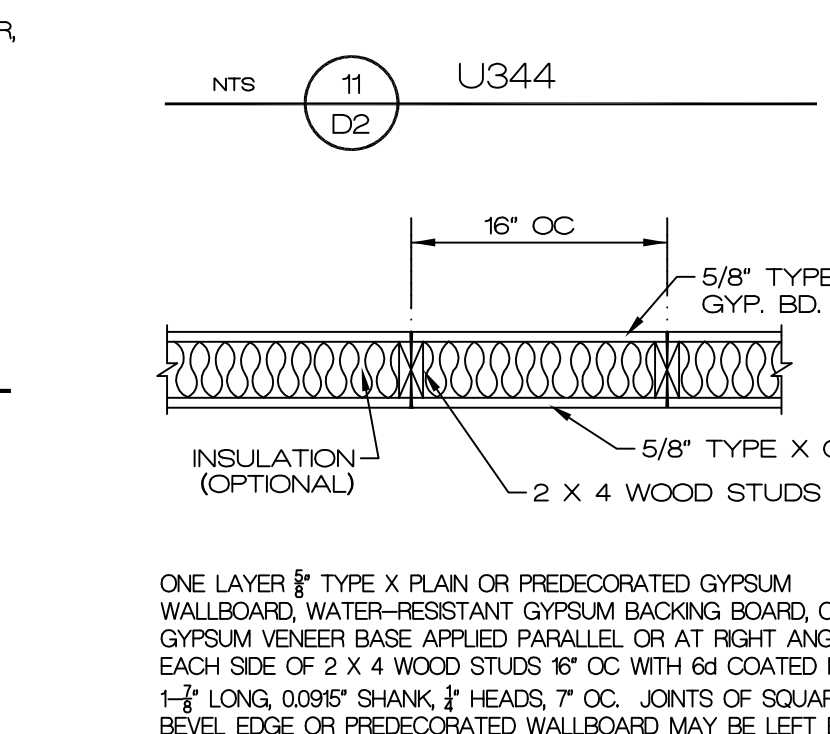
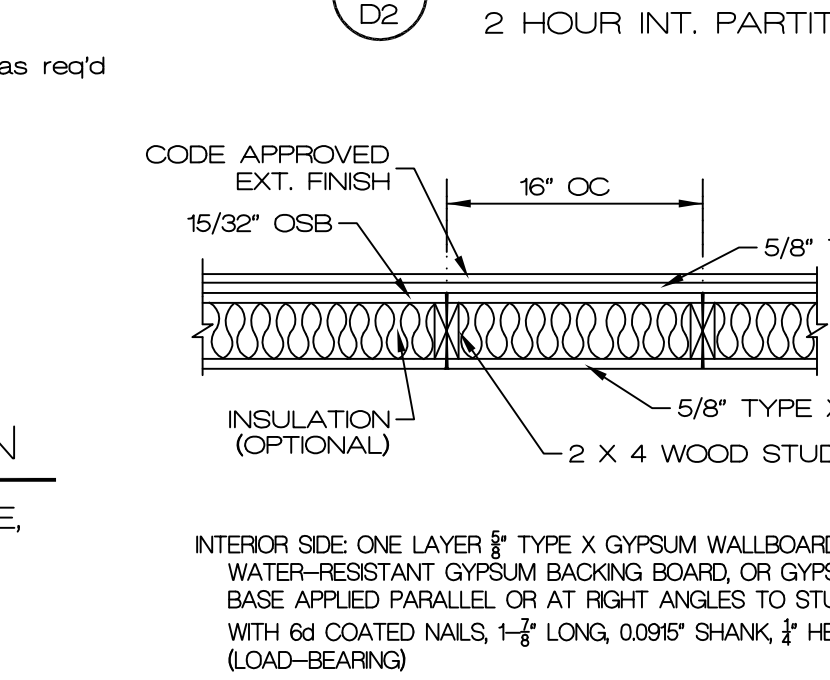
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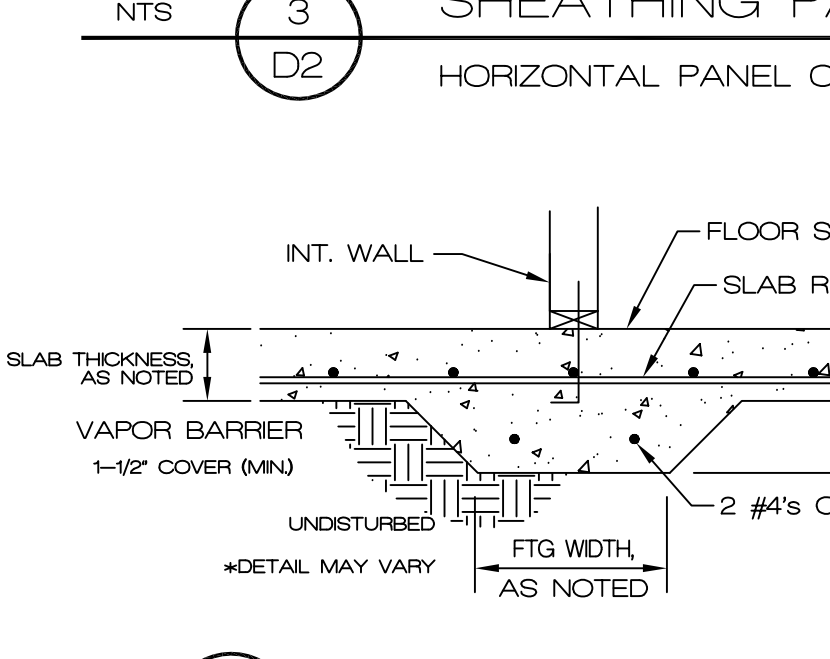


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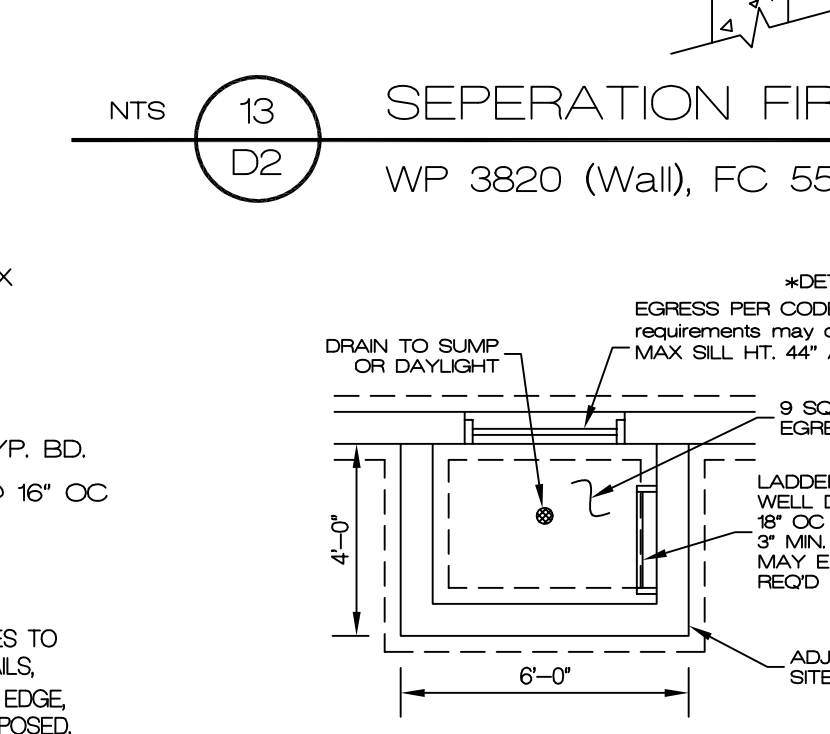
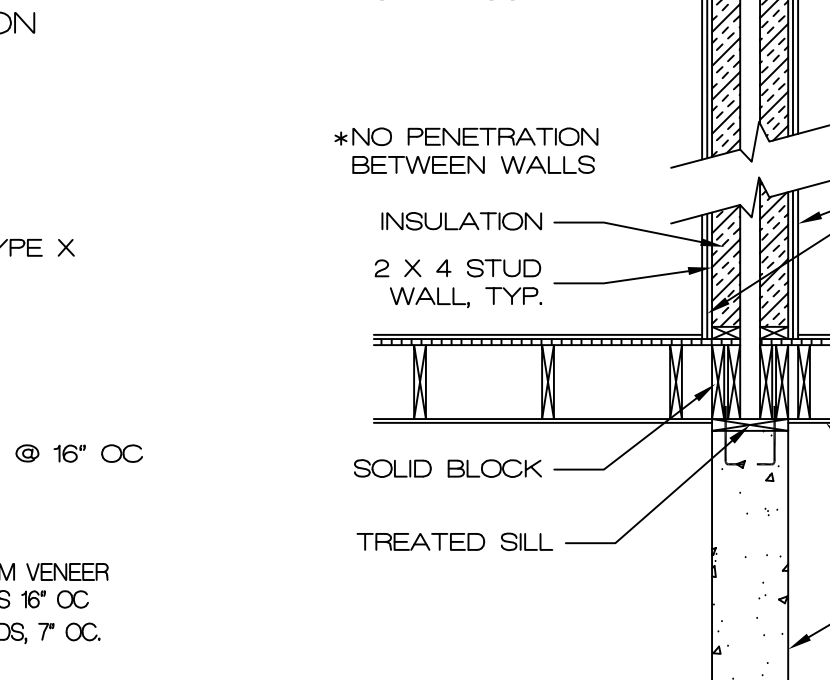
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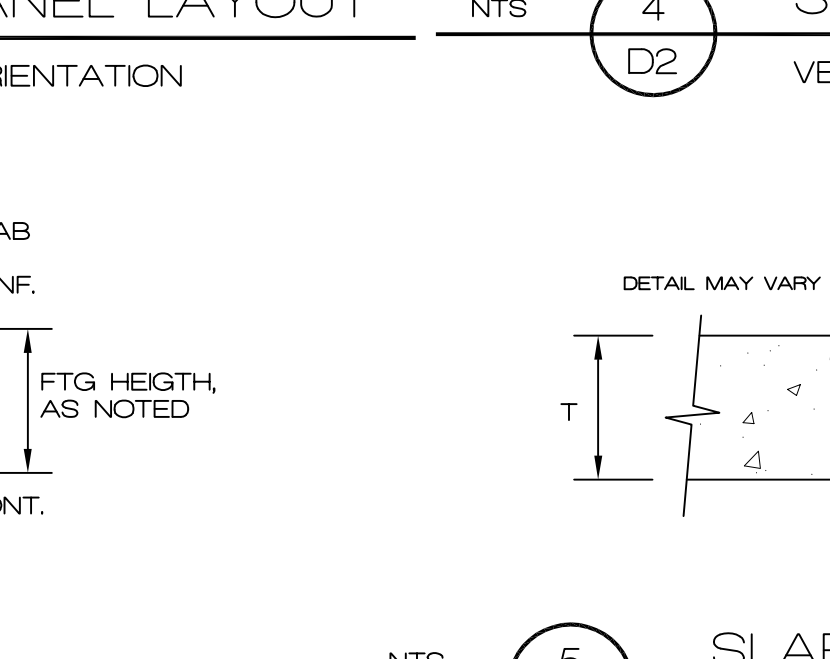


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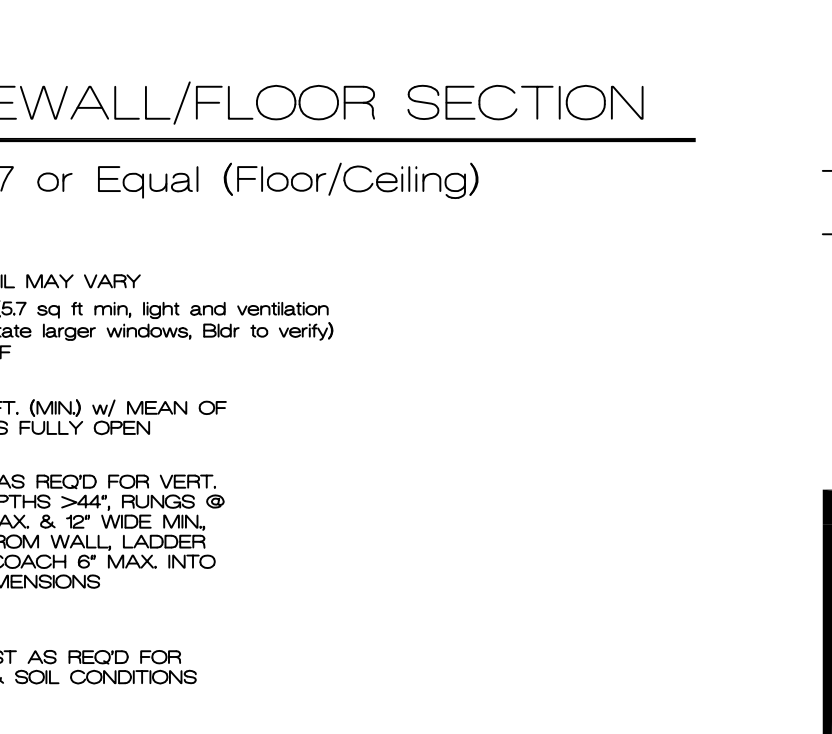
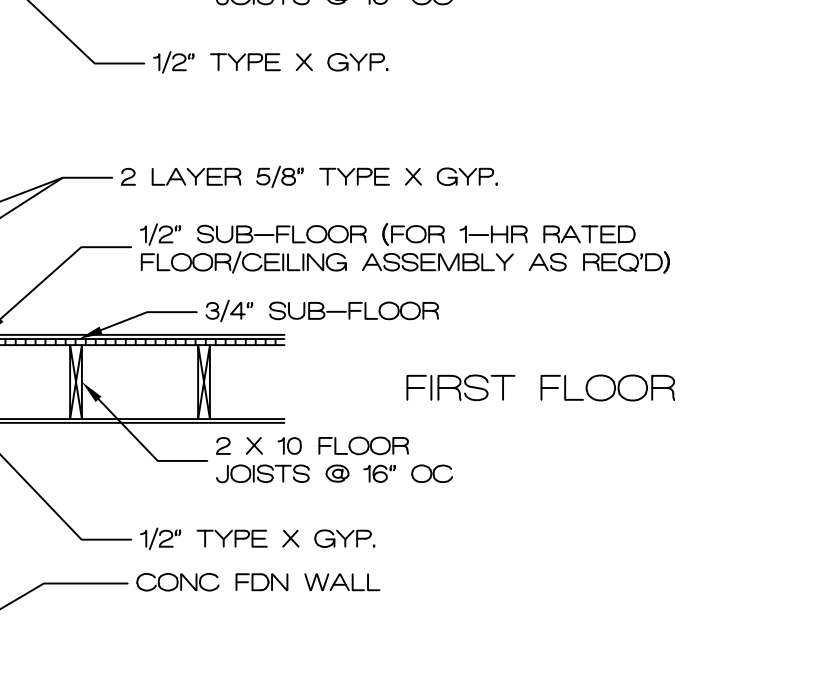
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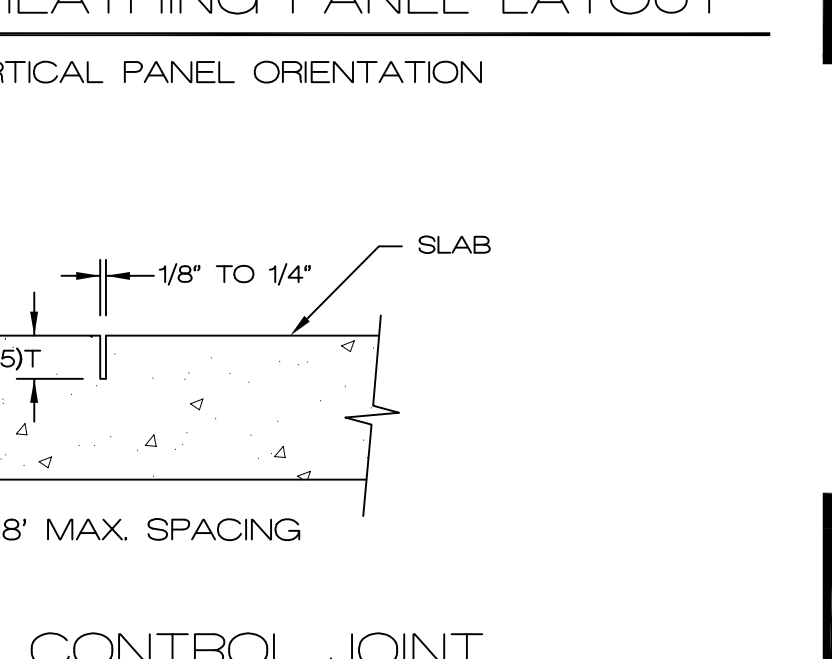


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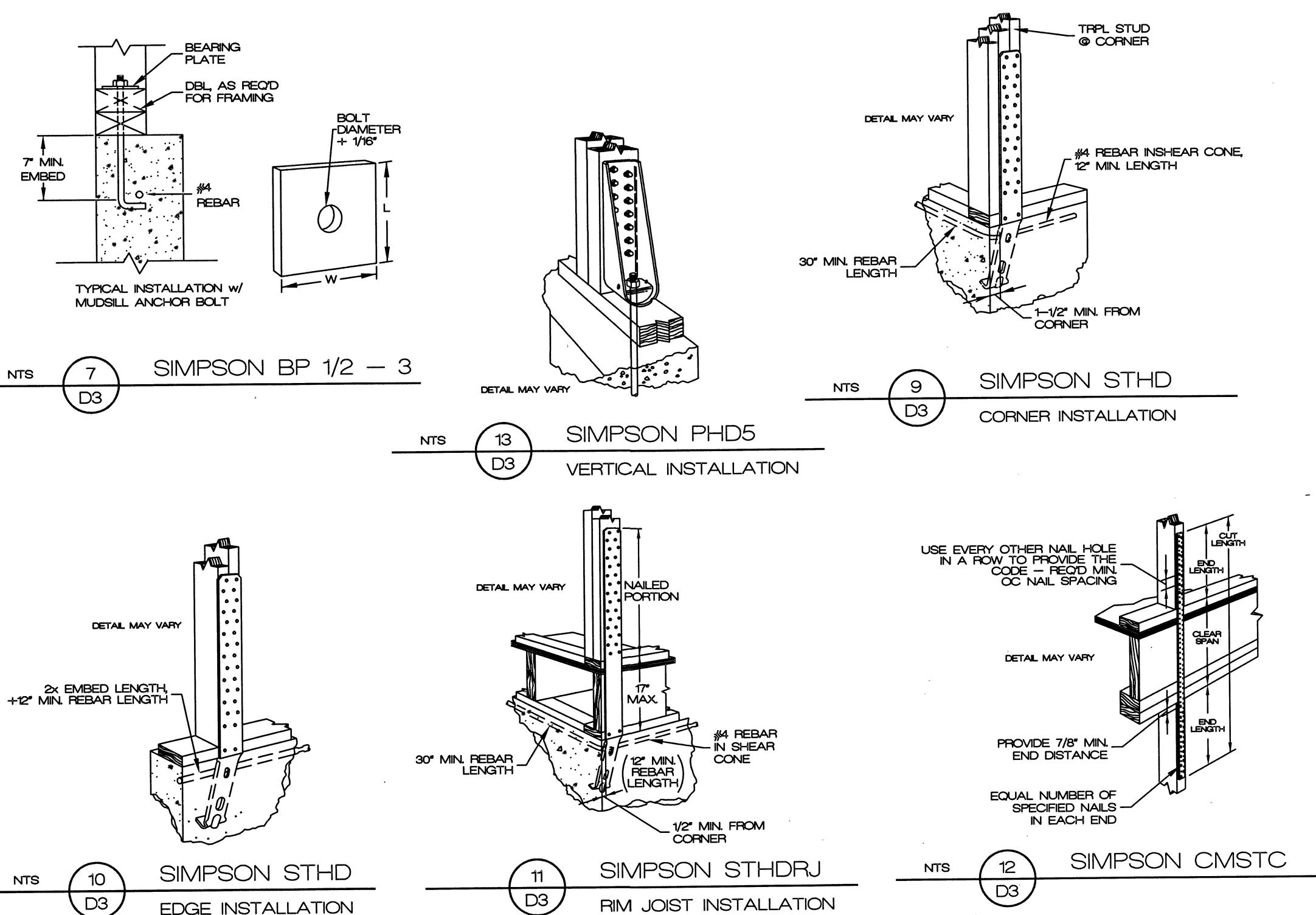
STAPLES NOT PERMITTED IN KCMO

FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

Item	Description of building elements	Number & type of fastener (notes: a, b, c)	Spacing of fasteners
Roof			
1	Blocking between joists or rafters to top plate, toe nail	3-8d (2-1/2" x 0.135)	---
2	Ceiling joists to plate, toe nail	3-8d (2-1/2" x 0.135)	---
3	Ceiling joists not attached to parallel rafter, laps over partitions, face nail	3-10d	---
4	Collar tie rafter, face nail or 1-1/4" x 20 ga. ridge strap	3-10d (3" x 0.288)	---
5	Rafter to plate, toe nail, note trusses use STC clips at NLB walls and special holdowns	3-16d or 3-10d (3-1/2" x 0.357, 0.148)	2 toe nails side 1, 1 toe nail side 2 (note j)
6	Roof rafters to ridge, valley or hip rafters:	---	---
7	Toe nail	4-16d (3-1/2" x 0.357)	---
8	Face nail	3-16d (3-1/2" x 0.357)	---
Wall			
9	Built-up studs-face nail	10d (3" x 0.288)	24" o.c.
10	Assembling studs at intersecting wall corners, face nail	16d (3-1/2" x 0.357)	12" o.c.
11	Built-up header, two pieces w/ 1/2" spacer	16d (3-1/2" x 0.357)	16" o.c. along each edge
12	Continued header, two pieces	16d (3-1/2" x 0.357)	16" o.c. along each edge
13	Continuous header to stud, toe nail	4-8d (3-1/2" x 0.135)	---
14	Double studs, face nail	10d (3" x 0.288)	24" o.c.
15	Double top plates, face nail	10d (3" x 0.288)	24" o.c.
16	Double top plates, min. 48" offset of end joints, face nail in lapped area	8-16d (3-1/2" x 0.357)	---
17	Side plate to post or blocking, face nail	8d (2-1/2" x 0.135)	16" o.c.
18	Side plate to post or blocking at braced wall panels	3-8d (2-1/2" x 0.135) or 2-16d (3-1/2" x 0.357)	16" o.c.
19	Stud to side plate, toe nail	3-8d (2-1/2" x 0.135) or 2-16d (3-1/2" x 0.357)	---
20	Top or side plate to stud, end nail	2-10d (3" x 0.288)	---
21	Top plates, face at corners and intersections, face nail	2-8d (2-1/2" x 0.135)	---
22	1" brace to each stud and plate, face nail	2-8d (2-1/2" x 0.135)	---
23	1" x 6" sheathing to each bearing, face nail	2 staples 1-3/4"	---
24	1" x 6" sheathing to each bearing, face nail	2-8d (2-1/2" x 0.135)	---
25	Wider than 1" x 6" sheathing to each bearing, face nail	3 staples 1-3/4"	---
Floor			
26	Joist to sill or girder, toe nail	3-8d (2-1/2" x 0.135)	---
27	1" x 6" joist to top plate, toe nail (roof applications also)	8d (2-1/2" x 0.135)	6" o.c.
28	1" x 6" joist to blocking to sill plate, toe nail	8d (2-1/2" x 0.135)	6" o.c.
29	1" x 6" subfloor or less to each joist, face nail	2-8d (2-1/2" x 0.135)	---
30	2" subfloor to joist of girder, blind and face nail	2 staples 1-3/4"	---
31	2" planks (plank & beam - floor and roof)	2-16d (3-1/2" x 0.357)	---
32	Built-up girders and beams, 2" lumber layers	10d (3" x 0.288)	---
33	Ledger strip supporting joists or rafters	3-16d (3-1/2" x 0.357)	---
Spacing of Fasteners			
Description of building materials		Description of fastener (notes: b, c, e)	Intermediate supports (inches) (notes: c, e)
Wood structural panels, subfloor, roof and interior wall sheathing to framing		Edges (inches) (note: i)	12 (note: g)
34	3/8" to 1/2"	8d common (2" x 0.135) nail (subfloor, wall) (note j)	12 (note: g)
35	1/2" to 1"	8d common (2-1/2" x 0.135) nail (roof)	12
36	1-1/8" to 1-1/4"	10d common (3" x 0.148) nail or 8d deformed (2-1/2" x 0.135) nail	12
Other wall sheathing (note: k)			
37	1/2" structural cellulose fiberboard sheathing	1-1/2" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga., 1-1/4" long	6
38	25/32" structural cellulose fiberboard sheathing	1-3/4" galv. roofing nail, 7/16" crown or 1" crown staple 16 ga., 1-1/2" long	6
39	1/2" gypsum sheathing (note: d)	1-1/2" galvanized roofing nail, staple galv., 1-1/2" long, 1-1/4" screws, Type W or S	7
40	5/8" gypsum sheathing (note: d)	1-3/4" galvanized roofing nail, staple galv., 1-5/8" long, 1-5/8" screws, Type W or S	7
Wood structural panels, combination subfloor underlayment to framing			
41	3/4" and less	8d deformed (2" x 0.207) nail or 8d common (2-1/2" x 0.135) nail	12
42	7/8" to 1"	8d common (2-1/2" x 0.135) nail or 8d deformed (2-1/2" x 0.135) nail	12
43	1-1/8" to 1-1/4"	10d common (3" x 0.148) nail or 8d deformed (2-1/2" x 0.135) nail	12

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s, 1 psi = 6.895 kPa

- a. All nails are smooth-common, box or deformed shank except where otherwise stated. Nails used for framing and sheathing connections shall have minimum average bending yield strengths as shown: 80 ksi (551 MPa) for shank diameter of 0.562 inch (20d common nail, 90 ksi (620 MPa) for shank diameters larger than 0.412 inch but not larger than 0.771 inch, and 100 ksi (689 MPa) for shank diameters of 0.412 inch or less.
- b. Staples are 16 gauge wire and have a minimum 7/16-inch on diameter crown width.
- c. Nail shall be spaced at not more than 6 inches on center at all supports where spans are 48 inches or greater.
- d. Four-foot-by-8-foot or 4-foot-by-9-foot panels shall be applied vertically.
- e. Spacing of fasteners not included in the table shall be verified w/ ECR.
- f. For regions having basic wind speed of 100 mph or greater, 8d deformed nails shall be used for attaching plywood and wood structural panel roof sheathing to framing within minimum 48-inch distance from gable end walls, if mean roof height is more than 25 feet, up to 35 feet maximum.
- g. For regions having basic wind speed of 100 mph or less, nails for attaching wood structural panel roof sheathing to gable end wall framing shall be spaced 6 inches on center. When basic wind speed is greater than 100 mph, nails for attaching panel roof sheathing to intermediate supports shall be spaced 6 inches on center for minimum 48-inch distance from ridge, eave and gable end walls and 6 inches on center to gable end wall framing.
- h. Gypsum sheathing shall conform to ASTM C 369 and shall be installed in accordance with GA 263. Fiberboard sheathing shall conform to ASTM C 208.
- i. Spacing of fasteners on floor sheathing panel edges applies to panel edges supported by framing members and at all floor plate perimeters. Spacing of fasteners on roof sheathing panel edges applies to panel edges supported by framing members and at all roof plate perimeters. Blocking of roof or floor sheathing panel edges perpendicular to the framing members shall not be required except at intersection of adjacent roof planes. Floor and roof perimeter shall be supported by framing members or solid blocking.
- j. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule, provide two toe nails on one side of the rafter and toe nails from the ceiling joist to top plate in accordance with this schedule. The toe nail on the opposite side of the rafter shall not be required.



SHEAR WALL DESCRIPTION

1 LIB METAL STRAP METHOD

2 WSP/CS-WSP SHEATHING METHOD

3 PFH GARAGE DOOR PORTAL

4 CS-PF PORTALS

J' BOLT SPACING FOR SHEAR WALLS IS 3' OC WITH STRAPS AS NOTED.

8 D3 SHEAR WALL SCHEDULE

NAIL TOP AND BOTTOM PLATES OF BP's TO JOISTS ABOVE AND BELOW w/ 3 @ 16d @ 16" OC

CONSTRUCTION

SIMPSON CS16 STRAP NAILED TO STUDS SPACED AT 16" OC MAXIMUM. STRAPS SHALL BE INSTALLED IN 'V' OR 'X' PATTERN AT THE BRACE LOCATION AND FOR THE SPECIFIED LENGTH, ALTERNATIVE TO LET IN 1 X 4.

* DEL JOIST MIN. BELOW BRACED WALL WHEN FRAMING BELOW IS PARALLEL TO WALL LINE, OR SOLID BLOCK @ 16" OC BELOW BRACED WALL WHEN FRAMING BELOW IS PERPENDICULAR TO WALL LINE. COLLECTOR OR DRAG STRUT OVER.

7/16" STRUCTURAL SHEATHING OVER STUDS SPACED 16" OC w/ 8d COMMON NAILS AT 6" OC EDGE AND 12" FIELD. HORIZONTAL JOINTS SHALL BE BLOCKED FOR ANCHORAGE.

* DEL JOIST MIN. BELOW BRACED WALL WHEN FRAMING BELOW IS PARALLEL TO WALL LINE, OR SOLID BLOCK @ 16" OC BELOW BRACED WALL WHEN FRAMING BELOW IS PERPENDICULAR TO WALL LINE.

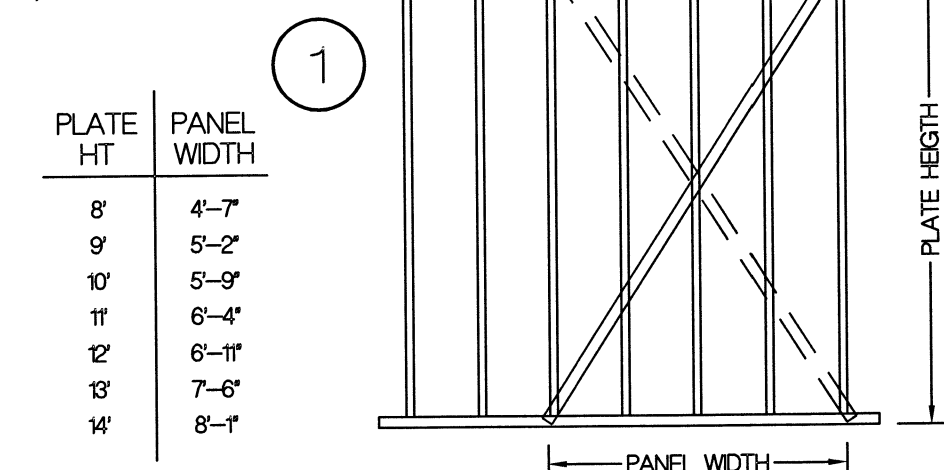
6 TO 1 ASPECT RATIO, HEADER LENGTH AS SPECIFIED w/ 1/4" FULL PANEL SHEATHING AT UPPER CORNERS CUTOUT FOR THE OPENING. BLOCKING AT HORIZONTAL JOINTS. NOTE FULL 4" WIDTH CUTOUT PANELS REQ'D AT CORNERS. STHD10 & LSTA

HEADER LENGTH AS SPECIFIED EXTENDED TO NEXT LAYOUT STUD, 18" MINIMUM WIDTH. FULL PANEL SHEATHING REQ'D WITH CUTOUTS FOR OPENINGS. HORIZONTAL BLOCKING AT EDGES.

LOAD TABLE

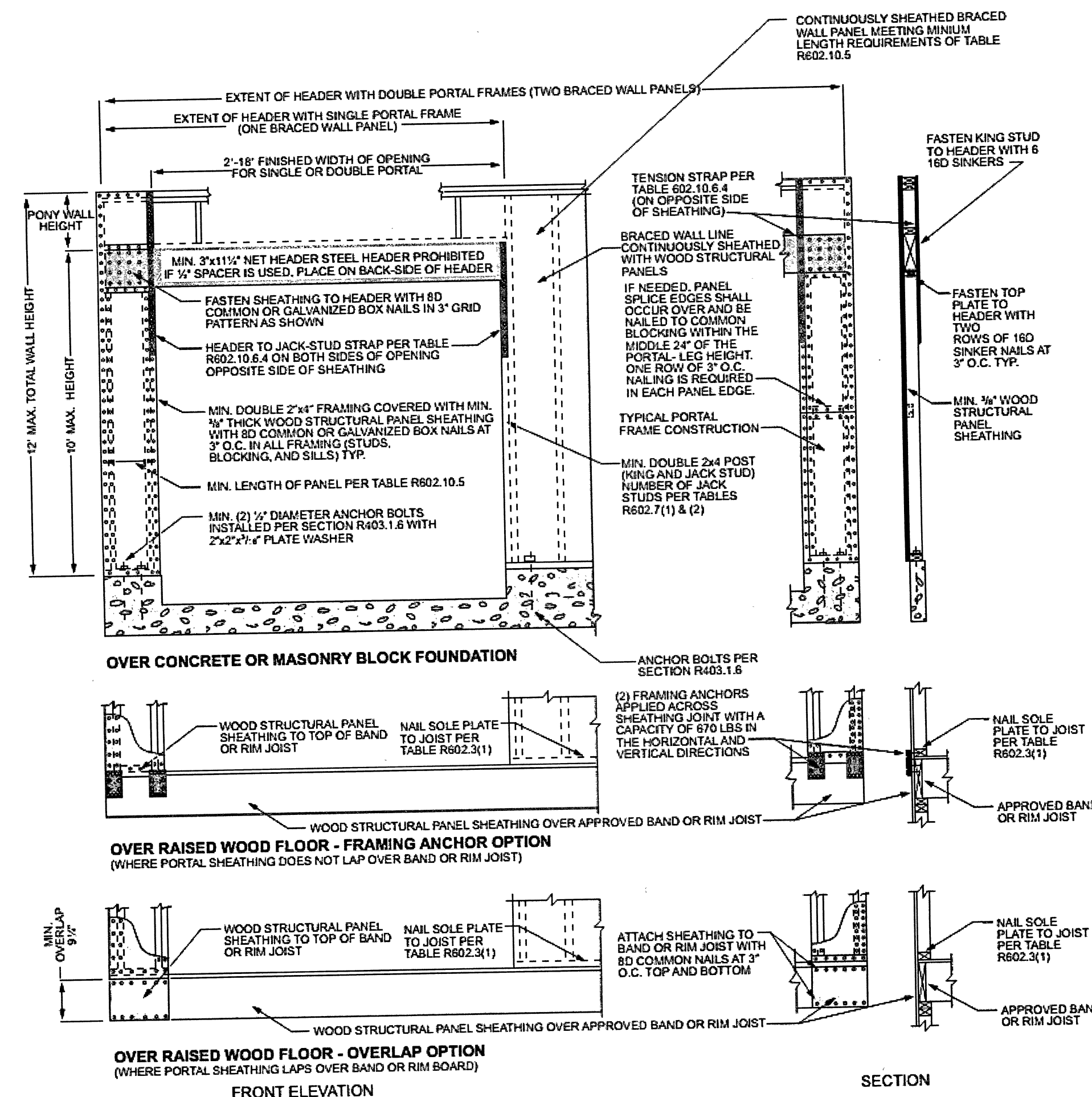
LOCATION	MIN. DL (PSF)	MIN. LL (PSF)
EXTERIOR BALCONIES	10	60
DECKS	10	40
CEILING w/o STORAGE	5	10
CEILING w/ STORAGE	10	20
NON-SLEEPING ROOMS	10	40
SLEEPING ROOMS	10	30
ROOF-LIGHT COVERING	10	25
ROOF-HEAVY COVERING	20	25

INTERIOR BRACED PANELS w/ SIMPSON WBC STRAP

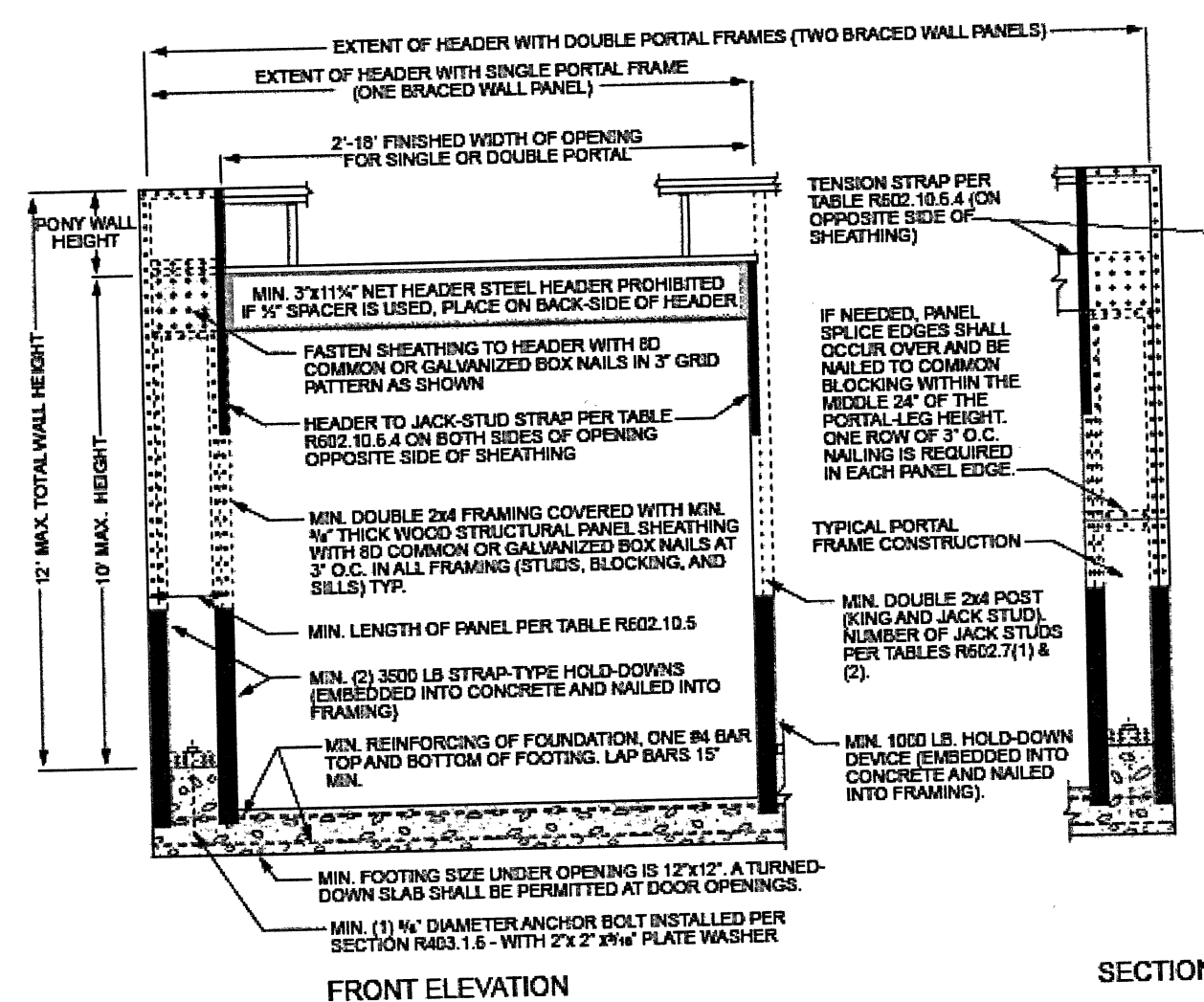


1 INT. BRACED WALL PANEL
D3 LIB, METAL STRAP ALT. TO LET IN 1 X 4

CHAPTER 6 WALL CONSTRUCTION



CHAPTER 6 WALL CONSTRUCTION



For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.2
METHOD PFH-PORTAL FRAME WITH HOLD-DOWNS

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

FIGURE R602.10.6.4
METHOD CS-PF-CONTINUOUSLY SHEATHED PORTAL FRAME PANEL CONSTRUCTION

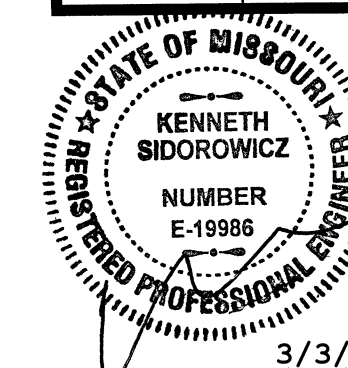
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D3