

PERMIT NUMBER: **20004131**

DATE ACCEPTED:

NOV 09 2020



RESIDENTIAL BUILDING PERMIT APPLICATION

LICENSES & PERMITS
DIVISION

HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS

3430 COURT HOUSE DRIVE, ELLICOTT CITY, MD 21043 - PHONE: (410) 313-2455 OPTION #4

www.howardcountymd.gov

BUILDING SITE ADDRESS *REQUIRED*

Street Address: 15745 Old Frederick Road			Unit:
City: Woodbine	State: MD	Zip Code: 21797	
Subdivision/Village/Complex Name:		SDP/WP/BA #:	
Lot:	Tax Map:	Parcel: 309	Grading Permit #:

DESCRIPTION OF WORK *REQUIRED*

Existing Use: Residential	Proposed Use: Residential	Estimated Cost: \$140.00
Trade Work to Be Completed (<i>Separate Permits Required</i>): <input type="checkbox"/> Mechanical (HVACR) <input checked="" type="checkbox"/> Electrical <input type="checkbox"/> Plumbing <input type="checkbox"/> None		
Detached two story garage. 30' x 40' with unfinished basement. Garage will have unfinished attic space for storage.		
Electrical will be for lighting and garage door operation.		

PROPERTY OWNER INFORMATION *REQUIRED*

Owner(s) Name(s) (<i>As it appears on tax records</i>): David Michael Harrison	Primary Residence: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Owner's Street Address: 15745 Old Frederick Road	
City: Woodbine	State: MD Zip Code: 21797
Phone: (301) 788-7229	Email: dmharrison04@gmail.com

APPLICANT NAME *REQUIRED - INDIVIDUAL WHO SIGNS THIS APPLICATION*

Business Name: Next Gen Contracting, LLC	Contact Name: David Harrison
Street Address: 15745 Old Frederick Road	
City: Woodbine	State: MD Zip Code: 21797
Phone: (301) 788-7229	Email: dmharrison04@gmail.com

CONTRACTOR INFORMATION *REQUIRED*

Business Name: Next Gen Contracting, LLC	
Licensee's Name: David M. Harrison	License #: 132221
Street Address: 15745 Old Frederick Road	
City: Woodbine	State: MD Zip Code: 21797
Phone: (301) 788-7229	Email: dmharrison04@gmail.com

ARCHITECT/ENGINEER INFORMATION *INDIVIDUAL WHO SIGNED PLANS, IF APPLICABLE*

Business Name: GBL Custom Home Designs, Inc	Name: John L. Schneider Jr.
Street Address: PO Box 237	
City: Finksburg	State: MD Zip Code: 21048
Phone: (410) 833-8320	Email: gblplans@qls.net

BUILDING CHARACTERISTICS *REQUIRED*

Primary Structure: <input checked="" type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse <input type="checkbox"/> SF Duplex <input type="checkbox"/> Mobile Home <input type="checkbox"/> Multi-Family Dwelling (MF*)	Condo: <input type="checkbox"/> Yes <input type="checkbox"/> No
Utilities: <input checked="" type="checkbox"/> Electric <input type="checkbox"/> Gas	Water Supply: <input type="checkbox"/> Public <input type="checkbox"/> Private (Well)
Heating System: <input checked="" type="checkbox"/> Electric <input type="checkbox"/> Natural Gas <input type="checkbox"/> Propane <input type="checkbox"/> Other:	Sewage Disposal: <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private (Septic)
Sprinkler System: <input type="checkbox"/> NFPA 13 <input type="checkbox"/> NFPA 13R <input type="checkbox"/> NFPA 13D <input checked="" type="checkbox"/> None	Roadside Tree Project: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes: #
Fire Alarm System: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Voice Evac	

ADDITIONAL RESIDENTIAL INFORMATION (*PLEASE SELECT/COMPLETE ALL THAT APPLY*)

Model Name & Options: Detached Garage Harrison Residence				
# of Bedrooms (SF):	# of efficiency units (MF*):	# of 1 BR (MF*):	# of 2 BR (MF*):	# of 3 BR (MF*):
# Rooms:	# Full Baths:	# Half Baths:	# Fireplaces:	
Garage/Carport Info: <input type="checkbox"/> Attached Garage <input checked="" type="checkbox"/> Detached Garage <input type="checkbox"/> Integral Garage <input type="checkbox"/> Carport <input type="checkbox"/> None				
Basement/Foundation Info: <input type="checkbox"/> Slab on Grade <input type="checkbox"/> Post & Pier <input checked="" type="checkbox"/> Unfinished Basement <input type="checkbox"/> Finished Basement: <input type="checkbox"/> Full or <input type="checkbox"/> Partial				
1 st Fl Width: 30	1 st Fl Depth: 40	2 nd Fl Width: 18	2 nd Fl Depth: 40	Bsmt Width: 30 Bsmt Depth: 40
Energy Method: <input type="checkbox"/> Prescriptive <input type="checkbox"/> Performance <input type="checkbox"/> UA Alternative <input type="checkbox"/> ERI		Gross Area: 3,120 sq ft	Occupiable Area: sq ft	

AGREEMENT / DISCALIMER *REQUIRED*

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

David M. Harrison
APPLICANT'S ORIGINAL SIGNATURE

10/30/2020
DATE SIGNED

FOR OFFICE USE ONLY

CHECKS PAYABLE TO: DIRECTOR OF FINANCE OF HOWARD COUNTY

AGENCIES REQUIRED/APPROVALS:

<input type="checkbox"/> PR	<input type="checkbox"/> DPZ	<input type="checkbox"/> DED	<input checked="" type="checkbox"/> Health <i>Bernal</i>	<input type="checkbox"/> SHA	<input type="checkbox"/> CID
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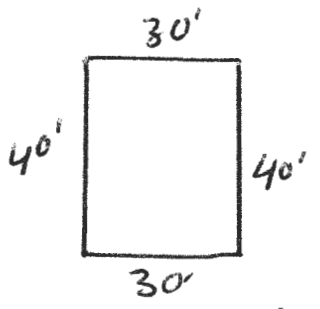
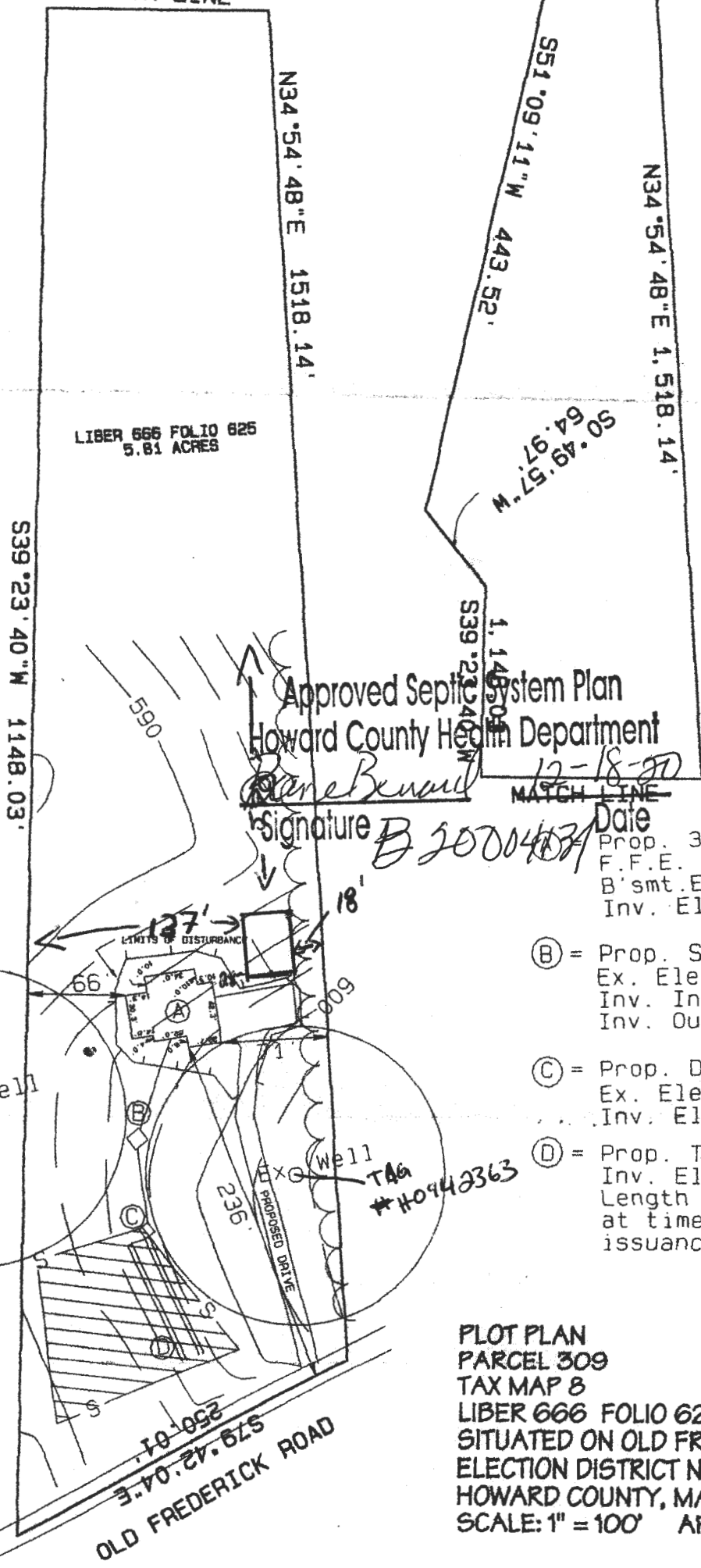
SUBMITTAL FEES:

PAYMENT:

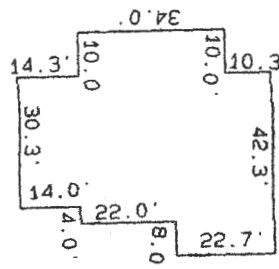
ACCEPTED BY:



MATCH LINE



GARAGE DETAIL



HOUSE DETAIL (N.T.S.)



Approved Septic System Plan
Howard County Health Department

Rene Benard
Signature *B 20004071*
Date *12-18-00*

Prop. 3 Bedroom House
F.F.E. = 602.0'
B'smt. Elev. = 592.0'
Inv. Elev. = 596.1'

- (B) = Prop. Septic Tank
Ex. Elev. = 597.3'
Inv. In = 595.5'
Inv. Out = 595.2'
- (C) = Prop. Dist. Box
Ex. Elev. = 597.4'
Inv. Elev. = 594.7'
- (D) = Prop. Trenches
Inv. Elev. = 594.4'
Length to be determined
at time of septic permit
issuance.

PLOT PLAN
PARCEL 309
TAX MAP 8
LIBER 666 FOLIO 625
SITUATED ON OLD FREDERICK ROAD
ELECTION DISTRICT No. 4
HOWARD COUNTY, MARYLAND
SCALE: 1" = 100' APRIL 2001

I CERTIFY THIS PLAT TO BE CORRECT; IT IS THE RESULT OF AN
ACTUAL FIELD SURVEY, BASED ON DATA FOUND AMONG THE LAND
RECORDS OF HOWARD COUNTY, MARYLAND, AS
REFERENCED HEREON.

REFERENCE <i>L. 6666 F. 625</i>	JOB NO.
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RAYMOND J. DAY
LAND SURVEYOR
65 DRIFTWOOD DRIVE
SWANTON, MARYLAND 21561
301-387-8573

GENERAL STRUCTURAL NOTES

1. GENERAL
 - A. ALL CONSTRUCTION SHALL CONFORM WITH THE PROVISIONS OF THE 2018 INTERNATIONAL RESIDENTIAL CODE FOR ONE AND TWO FAMILY DWELLINGS.
 - B. DESIGN LIVE LOADS:

ROOF.....	40 PSF
FLOORS.....	40 PSF
SLEEPING AREA.....	30 PSF
2. FOUNDATIONS
 - A. FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF. FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL, 1'-0" BELOW ORIGINAL GRADE. THE BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 2'-6" BELOW FINISHED GRADE. CONTRACTOR TO VERIFY THE ALLOWABLE SOIL PRESSURE IN THE FIELD. IF FOUND TO BE LESS THAN 2000 PSF, THE FOOTINGS WILL HAVE TO BE REDESIGNED.
3. CAST IN PLACE CONCRETE
 - A. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST APPROVED (BY LOCAL GOVERNMENT) EDITIONS OF THE FOLLOWING A.C.I. AND A.S.T.M. DOCUMENTS:

ACI-301	SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
ACI-318	BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
 - B. ALL CONCRETE EXCEPT AS NOTED SHALL BE (FC=3,000 PSI) STONE¹ AS-CRREGATE CONCRETE AT 28 DAYS. ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR ENTRAINED.
 - C. SLABS ON GROUND SHALL BE 4" THICK CONCRETE REINFORCED WITH 6"x6" #11.4X#1.4 W/W OVER 6 MIL POLYETHYLENE VAPOR BARRIER AND 4" WASHED GRAVEL UNLESS OTHERWISE NOTED.
4. MASONRY
 - A. ALL MASONRY CONSTRUCTION AND MATERIALS USED THEREIN (CONCRETE MASONRY, CLAY MASONRY, MORTAR, GROUT, AND STEEL REINFORCEMENT) SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530-12/ASCE 5-12/TMS 402-12) AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1-12/ASCE 6-12/TMS 602-12) IN ALL RESPECTS.
 - B. MASONRY BEARING WALLS SHALL CONSIST OF STANDARD HOLLOW UNITS CONFORMING TO ASTM C 90 UNLESS OTHERWISE NOTED. WHERE SOLID UNITS ARE REQUIRED, PROVIDE UNITS CONFORMING TO ASTM C 145.
 - C. ALL MORTAR SHALL CONFORM TO THE REQUIREMENTS FOR PROPORTIONS, MIXING, STRENGTH AND APPLICATION FOR PORTLAND CEMENT/ LIME TYPE "S" MORTAR AS DESCRIBED IN ACI 530-12.
 - D. ALL GROUT FILL IN MASONRY WALLS SHALL CONFORM TO ASTM C 476. SLUMP RANGE 8-11". PLACE GROUT IN 5'-0" MAXIMUM POUR HEIGHTS AND CONSOLIDATE BY MECHANICAL VIBRATION.
 - E. PROVIDE 8" DEPTH OF 100% SOLID MASONRY BELOW ALL JOIST OR SLAB BEARING LINES. PROVIDE 16" HIGH X16" LONG 100% SOLID MASONRY BELOW ALL LINTELS AND BEAMS UNLESS NOTED OTHERWISE.
 - F. ALL MASONRY WALLS SHALL BE REINFORCED WITH NO. 9 GAGE TRUSS TYPE GALVANIZED DUR-O-WALL SPACED VERTICALLY AT 16" O.C. U.N.O. LAP ALL DUR-O-WALL 6" MINIMUM. PROVIDE CORNER AND TEE PIECES AT ALL INTERSECTIONS.
 - G. LOOSE LINTELS FOR MASONRY WALLS SHALL BE FOR EACH 4" WIDTH OF MASONRY ONE STEEL ANGLE AS FOLLOWS:

0'-0" TO 3'-0"	3-1/2" X 3-1/2" X 5/16"
3'-1" TO 5'-0"	4" X 3-1/2" X 5/16"
5'-1" TO 6'-6"	5" X 3-1/2" X 3/8"
6'-7" TO 8'-0"	6" X 3-1/2" X 3/8"

 ALL ANGLES SHALL HAVE THEIR SHORT LEG OUTSTANDING AND 6" MINIMUM BEARING.
5. STRUCTURAL STEEL
 - A. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM SPECIFICATION A-36 (LATEST LOCAL APPROVED). ALL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC MANUAL, AISC SPECIFICATION AND AISC CODE OF STANDARD PRACTICE.
 - B. ALL WELDED CONNECTIONS SHALL BE DONE WITH E70XX ELECTRODES. SHOP AND FIELD WELDS SHALL BE MADE BY APPROVED CERTIFIED WELDERS AND SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE FOR BUILDING AWS D1.1. WELDS SHALL DEVELOP THE FULL STRENGTH OF MATERIALS BEING WELDED UNLESS OTHERWISE NOTED.
6. WOOD
 - A. STRUCTURAL WOOD RAFTERS, JOISTS, BEAMS, AND STUDS SHALL BE HEM FIR #2 OR SPRUCE PINE FIR #2 SURFACED DRY AT A MAXIMUM OF 19% MOISTURE CONTENT. ALL LUMBER EXPOSED TO WEATHER SHALL BE PRESSURE TREATED SOUTHERN PINE #2. ALL FABRICATION, ERECTION, OTHER PROCEDURES AND MINIMUM UNIT STRESSES SHALL CONFORM TO THE CURRENT NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
 - B. WOOD TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION (ANSI/TPI 1) AND COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING AND BRACING METAL PLATE CONNECTED WOOD TRUSSES (HB-91) AS PUBLISHED BY THE TRUSS PLATE INSTITUTE AND IN ACCORDANCE WITH THE 1991 EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
 - C. WOOD TRUSSES AND ENGINEERED FLOOR JOISTS ARE TO BE DESIGNED BY THE SUPPLIER. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER/ ARCHITECT FOR REVIEW. ALL TRUSSES AND JOISTS SHALL BE DESIGNED TO LIMIT THE BEARING STRESS TO 425 PSI WHEN MEMBERS BEAR ON STUD WALLS. PROVIDE MEMBERS OF ADEQUATE WIDTH OR METAL CONNECTIONS TO LIMIT STRESSES TO THE SPECIFIED VALUE.
 - D. ALL LAMINATED VENEER LUMBER (LVL) OR PARALLEL STRAND LUMBER (PSL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES: Fb=2600 psi, Fv=285 psi, E=1,900,000 psi, Fc= 2510 psi (PARALLEL), Fc=1750 psi (PERPENDICULAR).
 - E. ALL DOUBLE MEMBERS SHALL BE NAILED TOGETHER WITH 2 ROWS OF 16d NAILS SPACED AT 12" O.C. ALL TRIPLE MEMBERS SHALL BE NAILED TOGETHER WITH 3 ROWS OF 16d NAILS SPACED AT 12" O.C. NAILED FROM EACH SIDE.
 - F. PROVIDE DOUBLE JOISTS AT PARALLEL PARTITIONS WHERE PARTITION LENGTH EXCEEDS 1/3 JOIST SPAN.
 - G. ALL NAILS ARE TO BE COMMON WIRE NAILS. NAILING OF ALL FRAMING SHALL BE AS SPECIFIED IN THE CONTRACT DOCUMENTS BUT IN NO CASE SHALL BE LESS THAN THE RECOMMENDED NAILING SCHEDULE CONTAINED IN THE 2018 INTERNATIONAL RESIDENTIAL CODE. ALL MULTIPLE STUD POSTS ARE TO BE NAILED TOGETHER WITH 12d NAILS @ 6" O.C. STAGGERED.
 - H. PROVIDE BRIDGING SPACED AT 48" O.C. IN FIRST TWO JOIST, RAFTER, OR TRUSS SPACES WHEN FRAMING IS PARALLEL TO EXTERIOR WALL NAIL SHEATHING (FLOOR, CEILING OR ROOF) TO BRIDGING AND NAIL BRIDGING EXTERIOR WALL PLATE. PROVIDE ONE ROW OF BRIDGING BETWEEN ALL FLOOR AND ROOF JOISTS FOR EACH 8'-0" OF SPAN. PROVIDE SOLID BLOCKS OR A CONTINUOUS RUN JOIST AT THE BEARING OF JOISTS, RAFTERS OR TRUSSES ON WOOD PLATES.
 - I. PROVIDE THE FOLLOWING JAMB STUDS AT ALL BEARING WALL OPENINGS UNLESS NOTED OTHERWISE:

0'-3" OPENING	1 JACK STUD, 1 KING STUD
3'-1" - 6'-0" OPENING	2 JACK STUDS, 1 KING STUD
6'-1" - 9'-0" OPENING	2 JACK STUDS, 2 KING STUDS

 PROVIDE DOUBLE STUDS AT ALL CORNERS AND BENEATH ALL GIRDER TRUSSES AND WOOD BEAMS UNLESS NOTED OTHERWISE ON PLANS. WOOD BEAMS, GIRDERS TRUSSES AND HEADERS SHALL BEAR THE FULL DEPTH OF POSTS AND JACK STUDS.
 - J. ALL POSTS (MULTIPLE STUDS OR SOLID POST) SUPPORTING BEAMS, WALL HEADERS OR GIRDER TRUSSES, SHALL BE BLOCKED SOLID FOR THE FULL LENGTH AND WIDTH OF POSTS AT ALL INTERSECTIONS WITH FLOORS AS REQUIRED TO PROVIDE CONTINUOUS SUPPORT TO TOP OF FOUNDATION WALLS OR BEAMS. POSTS SHOWN ON UPPER LEVELS FLOORS SHALL ALSO BE INSTALLED ON THE LOWER LEVELS IN LINE WITH THE POST ABOVE DOWN TO FOUNDATION WALLS OR BEAMS.
 - K. ALL FLUSH JOIST TO BEAM OR BEAM TO BEAM CONNECTIONS SHALL BE MADE WITH JOIST OR BEAM HANGERS TO SUPPORT THE LOAD CAPACITY INDICATED ON THE PLANS OR THE FULL CAPACITY OF THE JOIST OR BEAM. HANGERS SHALL BE PROVIDED BY SIMPSON STRONG TIE OR USP LUMBER CONNECTORS. THE SUPPLIER SHALL DESIGN ALL HANGERS FOR THE CAPACITY STATED. INSTALL ALL HANGERS IN STRICT CONFORMANCE TO THE MANUFACTURER'S INSTRUCTIONS. FILL ALL NAIL OR BOLT HOLES USING THE SPECIFIED NAILS AND BOLTS ONLY.

DETACHED GARAGE

THE HARRISON RESIDENCE

WOODBINE, MD.

HOWARD COUNTY

ALL CONSTRUCTION SHALL CONFORM WITH THE PROVISIONS OF THE 2018 INTERNATIONAL RESIDENTIAL CODE FOR ONE AND TWO FAMILY DWELLINGS.

DESCRIPTION OF WORK:

UNCONDITIONED, WOOD FRAMED 30'x40' DETACHED GARAGE. ATTIC TRUSSES W/ STORAGE SPACE ABOVE & SUSPENDED SLAB W/ STORAGE BELOW.

1200 SQUARE FEET (AT MAIN LEVEL GARAGE)

ATTIC TRUSS DIMENSIONS: 30'x40'

HABITABLE ATTIC SPACE DIMENSIONS: 18'x40'

TABLE R301.5 MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS (in pounds per square foot)

USE	LIVE LOAD
UNINHABITABLE ATTICS W/O STORAGE, d	10
UNINHABITABLE ATTICS W/ LIMITED STORAGE, b, g	20
HABITABLE ATTICS & ATTICS SERVED W/ FIXED STAIRS	30
BALCONIES (EXTERIOR) & DECKS, e	40
FIRE ESCAPES	40
GUARDRAILS & HANDRAILS, d	200h
GUARDRAIL INFILL COMPONENTS, f	50h
PASSENGER VEHICLE GARAGES, a	50h
ROOMS OTHER THAN SLEEPING ROOMS	40
SLEEPING ROOMS	30
STAIRS	40c

- For Sl: 1 pound per square foot = 0.0479 kPa, 1 square inch = 645 mm², 1 pound = 4.45 N.
- a. Elevated garage floors shall be capable of supporting a 2,000-pound load applied over a 20-square-inch area.
 - b. Uninhabitable attics without storage are those where the maximum clear height between joists and rafters is less than 42 inches, or where there are not two or more adjacent trusses with web configurations capable of accommodating an assumed rectangle 42 inches high by 24 inches in width, or greater, within the plane of the trusses. This live load need not be assumed to act concurrently with any other live load requirements.
 - c. Individual stair treads shall be designed for the uniformly distributed live load or a 300-pound concentrated load acting over an area of 4 square inches, whichever produces the greater stresses.
 - d. A single concentrated load applied in any direction at any point along the top.
 - e. See Section R502.2.2 for decks attached to exterior walls.
 - f. Guard in-fill components (all those except the handrail), balusters and panel fillers shall be designed to withstand a horizontally applied normal load of 50 pounds on an area equal to 1 square foot. This load need not be assumed to act concurrently with any other live load requirement.
 - g. Uninhabitable attics with limited storage are those where the maximum clear height between joists and rafters is 42 inches or greater, or where there are two or more adjacent trusses with web configurations capable of accommodating an assumed rectangle 42 inches in height by 24 inches in width, or greater, within the plane of the trusses. The live load need only be applied to those portions of the joists or truss bottom chords where all of the following conditions are met:
 1. The attic area is accessible from an opening not less than 20 inches in width by 30 inches in length that is located where the clear height in the attic is a minimum of 30 inches.
 2. The slopes of the joists or truss bottom chords are no greater than 2 inches vertical to 12 units horizontal.
 3. Required insulation depth is less than the joist or truss bottom chord member depth. The remaining portions of the joists or truss bottom chords shall be designed for a uniformly distributed concurrent live load of not less than 10 lb/ft². If glazing used in handrail assemblies and guards shall be designed with a safety factor of 4.
 4. The safety factor shall be applied to each of the concentrated loads applied to the top of the rail, and to the load on the in-fill components. These loads shall be determined independent of one another, and loads are assumed not to occur with any other live load.

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
COVER	COVER SHEET / NOTES
2	FRONT & LEFT SIDE ELEVATIONS
3	RIGHT SIDE & REAR ELEVATIONS
4	FOUNDATION PLAN & SUSPENDED SLAB DETAILS
5	FIRST & SECOND FLOOR FRAMING PLANS
6	SECTION, FND. WALL DETAIL & WALL BRACING LAYOUT
7	WALL BRACING DETAILS

HATCH LEGEND:

	FRAME WALL
	VINYL SIDING
	THIN CUT STONE VENEER
	POURED CONC. FND. WALL

WINDOW SCHEDULE

PROPOSED WINDOWS SHOWN ARE ANDERSEN 200 SERIES (VINYL SIZES)

DOOR / WINDOW	UNIT DIMENSION	U-FACTOR	QTY
3060	3'-0" X 6'-0"	.34	3
3050	3'-0" X 5'-0"	.34	2
TWIN 3050	6'-0" X 5'-0"	.34	2
30-65 9 LITE DOOR	3'-0" X 6'-8"	.36	1

GENERAL NOTES

ALL PROPOSED EXTERIOR WALLS TO BE 2x6 @ 16" O/C W/ DBL. TOP PLATE & 7/16" EXTERIOR SHEATHING.

ALL PROPOSED INTERIOR NON-BEARING PARTITIONS TO BE 2x4 @ 16" O/C W/ SINGLE TOP PLATE U.N.O.

ALL PROPOSED WINDOW ROUGH OPENING HEIGHTS TO BE SET @ 6'-8" ABOVE FINISHED FLOOR U.N.O.

REFER TO FRAMING SUPPLIER'S LAYOUT FOR BRACING DETAILS & FRAMING INSTALLATION REQUIREMENTS (FOR NEW CONSTRUCTION)

FRAMING SUPPLIER'S SHOP DRAWINGS SUPERSEDE PROPOSED FRAMING LAYOUT HEREIN SUGGESTED.

PROVIDE ADEQUATE CLEARANCE AT PROPOSED PLUMBING STACKS AS REQ'D.

PROJECT ADDRESS:
WOODBINE, MD.
HOWARD COUNTY, MD.

DETACHED GARAGE

THE HARRISON RESIDENCE

REVISED 7/1/2020
REVISED 6/24/2020

FILE: HARRISON GARAGE

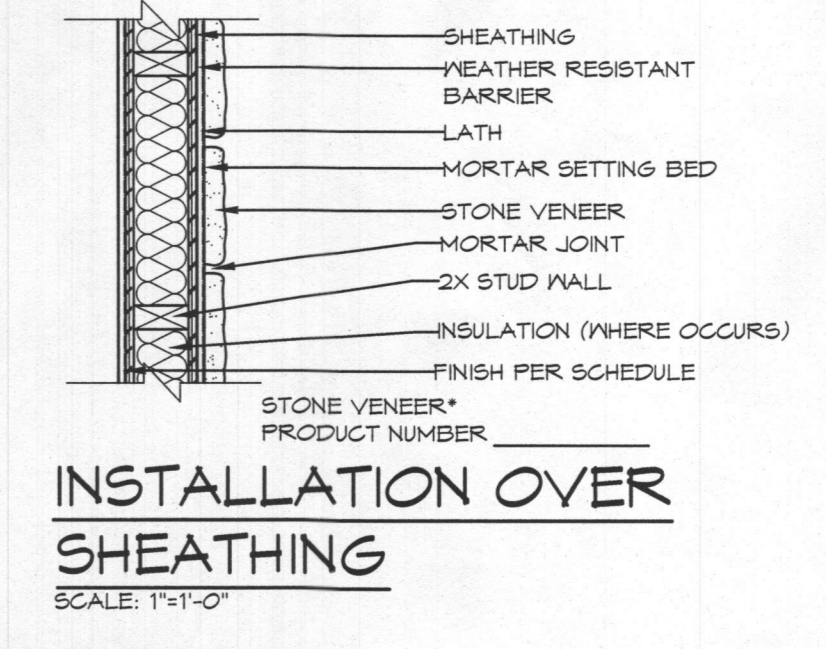
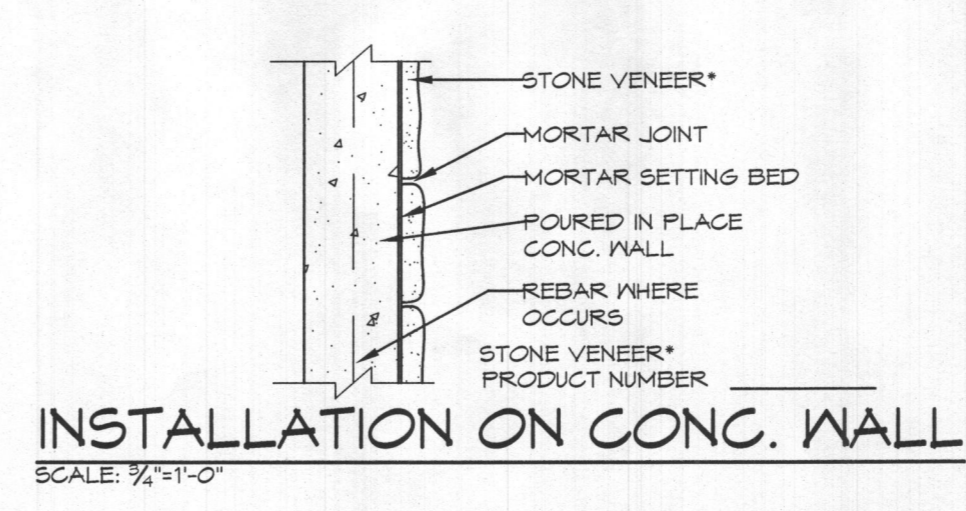
SCALE: 1/4"=1'-0"
DATE: 6/20/20
SHEET NO.: 1 OF 7

GBI CUSTOM HOME DESIGN INC.
PO BOX 237 FINKSBURG, MD 21048
PHONE 410-833-8320

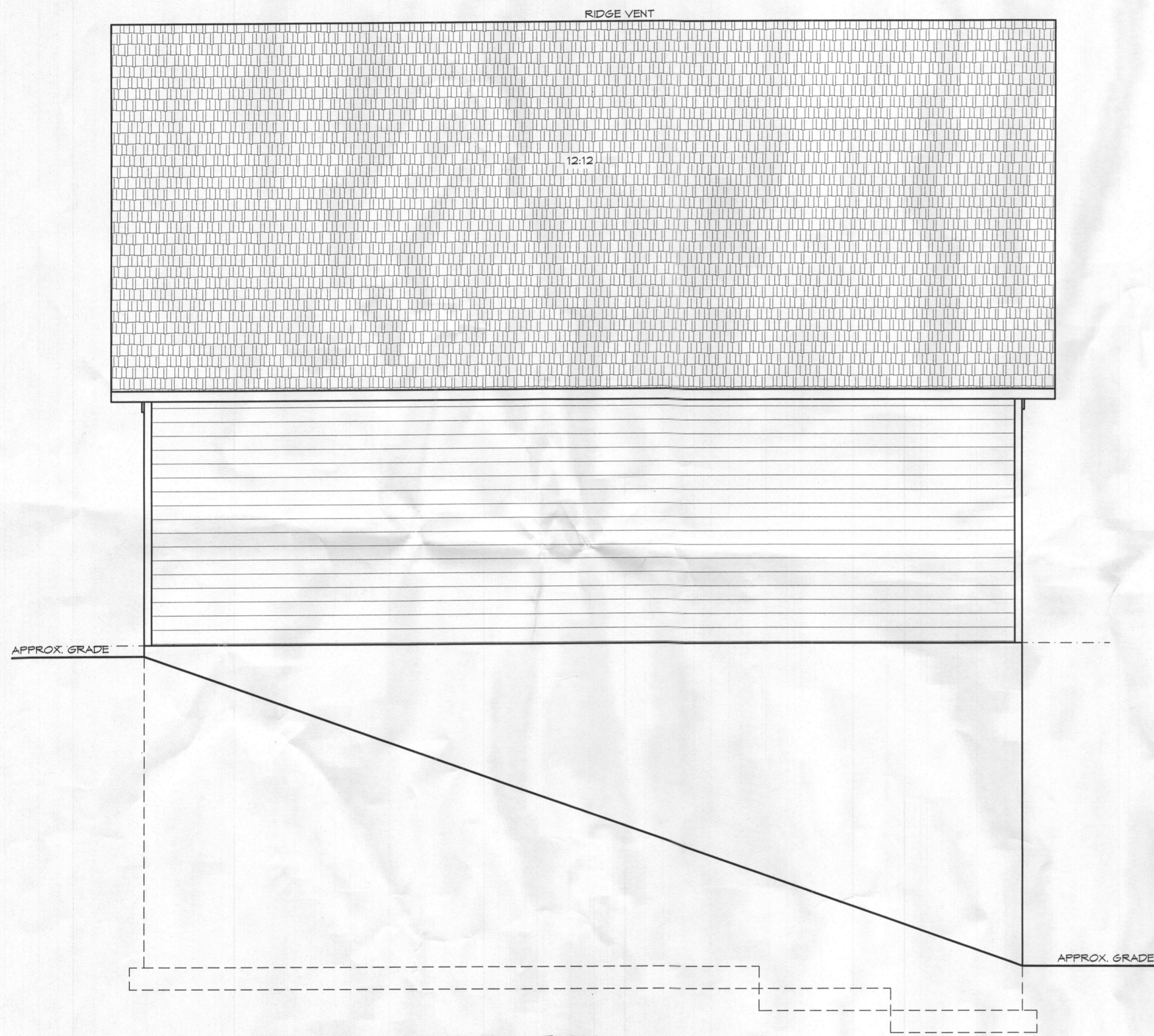
DETACHED GARAGE
THE HARRISON RESIDENCE

REVISED 7/1/2020
 REVISED 6/24/2020

SCALE: 1/4"=1'-0"	SHEET NO.: 2 OF 7
DATE: 6/2020	
FILE: HARRISON GARAGE	
GBL CUSTOM HOME DESIGN INC. PO BOX 237 FNKSBURG, MD 21048 PHONE 410-833-8320	

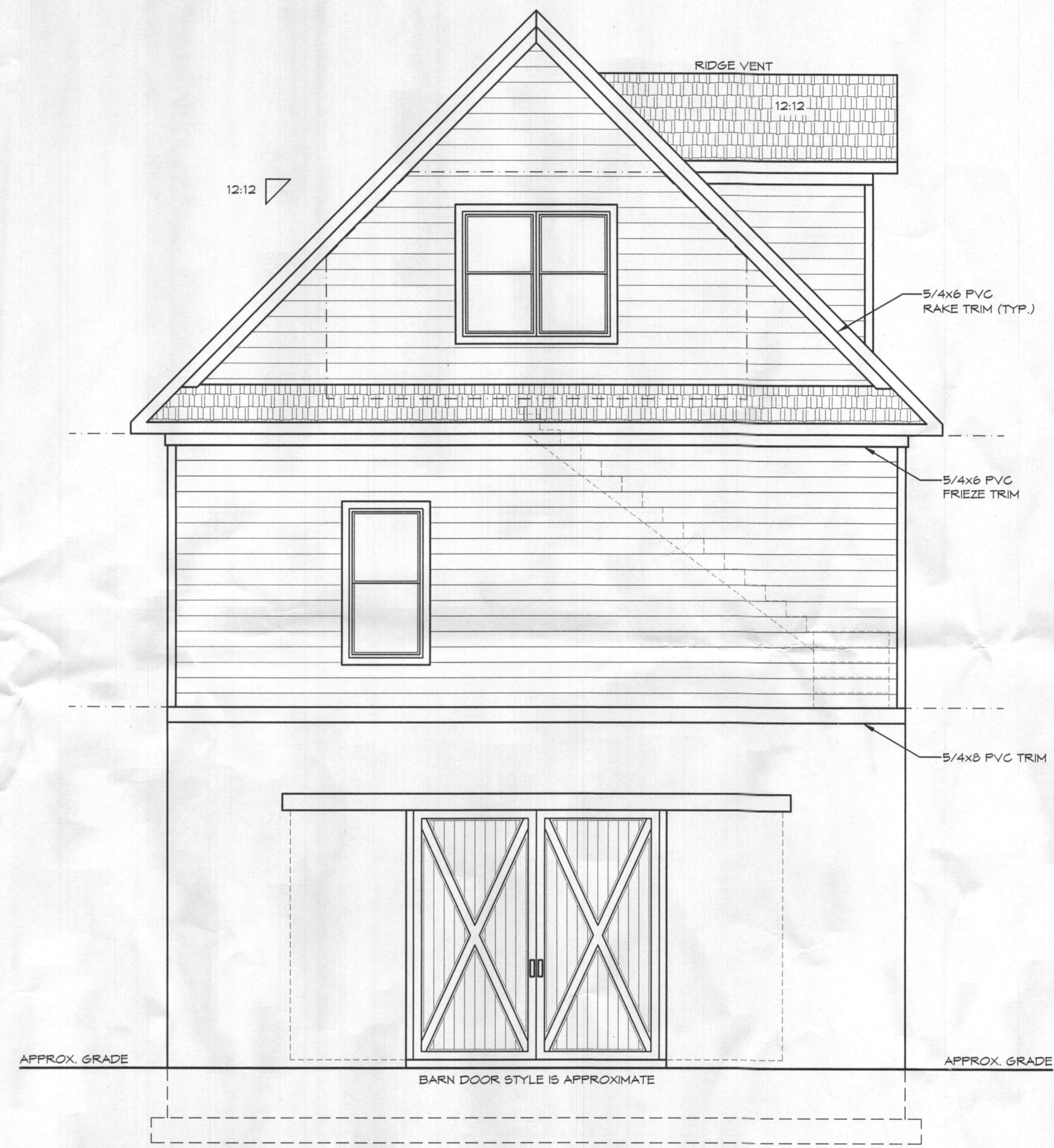


STONE VENEER DETAILS



RIGHT SIDE ELEVATION

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



REAR ELEVATION

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

DETACHED GARAGE
THE HARRISON RESIDENCE

REVISED 1/1/2020
 REVISED 6/29/2020

SCALE: 1/4"=1'-0"	GBL CUSTOM HOME DESIGN INC. PO BOX 237 FNKSBURG, MD 21048 PHONE 410-833-8320
DATE: 6/2020	
SHEET NO.: 3 OF 7	

FILE: HARRISON GARAGE

DETACHED GARAGE
THE HARRISON RESIDENCE

COMPOSITE STEEL DECK SPECIFICATIONS.

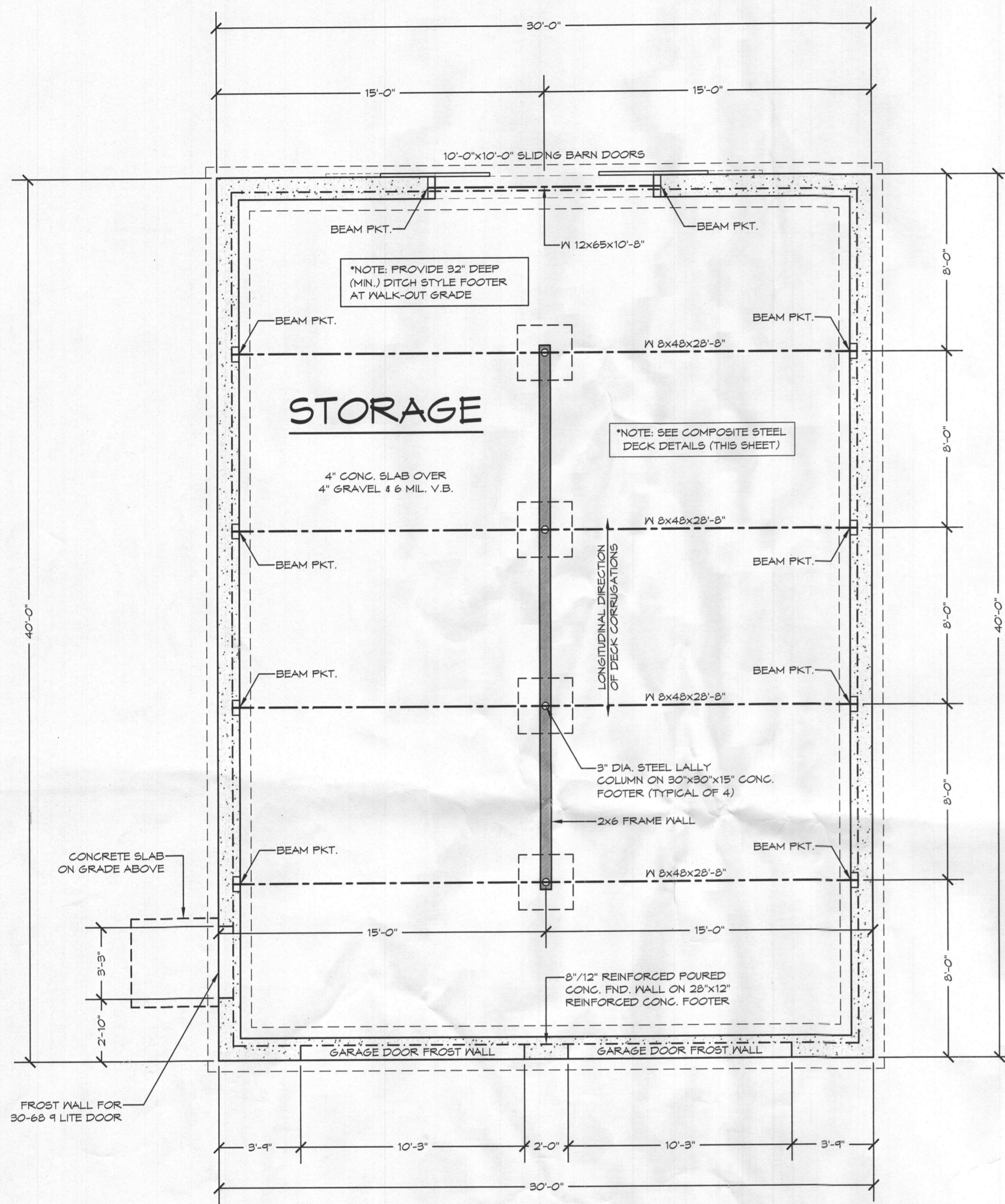
- COMPOSITE STEEL DECKING SHALL BE TYPICAL OF THE MINIMUM PROPERTIES OF VULCRAFT 3VLI18 COMPOSITE DECK, 18 GAGE, OR EQUAL.
- CONTRACTOR SHALL SUBMIT SHOP DRAWING TO OWNER FOR REVIEW AND APPROVAL OF COMPOSITE STEEL DECK MODIFICATION TO THE DECK DIMENSIONS AND CONFIGURATION, DECK MATERIALS, LOCATIONS OF SUPPORTS AND STRUCTURAL SUPPORT MEMBERS SHALL ONLY BE MADE PER THE OWNER'S DIRECTION WITH WRITTEN APPROVAL OF THE ENGINEER. NO DEVIATION FROM THE DRAWINGS SHALL BE PERMITTED WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE ENGINEER. CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DEVIATIONS FROM THE DRAWINGS WITHOUT APPROVAL OF THE OWNER AND WRITTEN APPROVAL OF THE ENGINEER.
- COMPOSITE STEEL DECK SHALL HAVE A MAXIMUM SPAN OF 13'-0" BETWEEN END SUPPORTS, UNLESS OTHERWISE NOTED. IN LOCATIONS WHERE SPAN LENGTHS MAY EXCEED THE MAXIMUM SPAN, INTERMEDIATE FRAMING MEMBERS MUST BE INSTALLED PERPENDICULAR TO THE COMPOSITE DECK SUPPORTS. WHERE STIFFENERS ARE USED, THE MAXIMUM SPACING BETWEEN SUPPORTS SHALL BE 5'-0", OR AS SHOWN ON THE DRAWINGS.
- COMPOSITE STEEL DECK SHALL BE SUPPORTED AS SHOWN IN THE DRAWINGS. CONCRETE END WALLS AND/OR PREFORMED END CAPS SHALL BE AS USED AT DECK TERMINATION POINTS AS SHOWN ON THE PLAN.
- DECK CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF THE FOLLOWING SPECIFICATIONS:
 - AMERICAN IRON AND STEEL INSTITUTE (AISI)
 - AMERICAN WELDING SOCIETY (ANSI/AWS D1.3) STRUCTURAL WELDING CODE/ SHEET STEEL;
 - STEEL DECK INSTITUTE (SDI).
- PROTECT STEEL DECK FROM DEFORMATION, AND OTHER DAMAGE DURING DELIVERY, STORAGE AND HANDLING. IF GROUND STORAGE IS NEEDED, THE DECK BUNDLES MUST BE STORED OFF THE GROUND, WITH ONE END ELEVATED TO PROVIDE DRAINAGE. BUNDLES MUST BE PROTECTED AGAINST CONDENSATION WITH A VENTILATED WATERPROOF COVERING. BUNDLES MUST BE STACKED SO THERE IS NO DANGER OF TIPPING, SLIDING, ROLLING, SHIFTING OR MATERIAL DAMAGE. BUNDLES MUST BE PERIODICALLY CHECKED FOR TIGHTNESS, AND RETIGHTENED AS NECESSARY SO WIND CANNOT LOOSEN SHEETS.
- SHEET STEEL FOR DECK AND ACCESSORIES SHALL CONFORM TO ASTM A653-94 STRUCTURAL QUALITY WITH A MINIMUM YIELD STRENGTH OF 33 KSI. GALVANIZING SHALL CONFORM TO ASTM A924-94 WITH MINIMUM COATING CLASS OF G60 (Z180) AS DEFINED IN ASTM A653-94.
- THE DECK SHALL BE A MINIMUM METAL THICKNESS OF 18 GAGE.
- CONCRETE FOR COMPOSITE SLABS MUST BE OF STRUCTURAL QUALITY AS SHOWN IN ACI 318. CONCRETE SHALL BE LIGHTWEIGHT AGGREGATE WITH MINIMUM 4000 PSI COMPRESSIVE STRENGTH IN 28 DAYS.
- THE MINIMUM CONCRETE DEPTH ABOVE THE TOP OF THE FLOOR DECK SHALL BE 3 INCHES. WHEN ADDITIONAL (NEGATIVE BENDING) REINFORCEMENT IS PLACED IN THE SLAB, THE MINIMUM COVER OF CONCRETE ABOVE THE REINFORCEMENT SHALL BE 3/4 INCH. NEGATIVE REINFORCEMENT IS TO BE PLACED OVER LOCATIONS OF THE PRIMARY DECK SUPPORT BEAMS IN THE LONGITUDINAL DIRECTION OF THE DECK PANELS. THE WIDTH OF THE NEGATIVE REINFORCEMENT SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
- TEMPERATURE AND SHRINKAGE REINFORCEMENT, CONSISTING OF WELDED WIRE FABRIC OR REINFORCING BARS, SHALL HAVE A MINIMUM AREA OF 0.0075 TIMES THE AREA OF THE CONCRETE ABOVE THE DECK (PER FOOT OR PER METER OF WIDTH), BUT SHALL NOT BE LESS THAN THE AREA PROVIDED BY 66-WI.4W1.4 WELDED WIRE FABRIC.
- TEMPORARY SHORING SHALL BE PROVIDED AT MIDSPAN BETWEEN PERMANENT SUPPORTS. TEMPORARY SHORING SHALL BE LEFT IN PLACE UNTIL THE SLAB ATTAINS 75 PERCENT OF ITS SPECIFIED COMPRESSIVE STRENGTH. PRIOR TO CONCRETE PLACEMENT, THE STEEL DECK SHALL BE FREE OF SOIL, DEBRIS, STANDING WATER, LOOSE MILL SCALE AND ALL OTHER FOREIGN MATTER. CARE MUST BE EXERCISED WHEN PLACING CONCRETE SO THAT THE DECK WILL NOT BE SUBJECT TO ANY IMPACT THAT EXCEEDS THE DESIGN CAPACITY OF THE DECK. CONCRETE SHALL BE PLACED FROM A LOW LEVEL TO AVOID IMPACT AND IN A UNIFORM MANNER OVER THE SUPPORTING STRUCTURE AND SPREAD TOWARD THE CENTER OF THE DECK SPAN.
- POUR STOPS, CLOSURES, AND COVER PLATES SHALL BE THE TYPE AS REQUIRED BY THE STEEL DECK INSTITUTE.
- MECHANICAL FASTENERS OR WELDS ARE ACCEPTABLE FOR ACCESSORY ATTACHMENTS.
- EXAMINE SUPPORT FRAMING AND FIELD CONNECTIONS FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF WORK IN THIS SECTION. ALL OSHA RULES FOR ERECTION MUST BE FOLLOWED.
- PLACE DECK IN ACCORDANCE WITH APPROVED PLACEMENT PLANS. DO NOT PLACE DECK PANELS ON CONCRETE SUPPORT STRUCTURE UNTIL CONCRETE HAS CURED AND IS DRY. LOCATE DECK BUNDLES TO PREVENT OVERLOADING OF SUPPORT MEMBERS. INSTALL DECK PANELS AND ACCESSORIES ACCORDING TO THE STEEL DECK INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS, AND IN ACCORDANCE WITH THE PLACEMENT PLANS. INSTALL TEMPORARY SHORING BEFORE PLACING DECK PANELS. PLACE DECK PANELS ON STRUCTURAL SUPPORTS AND ADJUST TO FINAL POSITION WITH ENDS ALIGNED. ATTACH FIRMLY TO THE SUPPORTS IMMEDIATELY AFTER PLACEMENT IN ORDER TO FORM A SAFE WORKING PLATFORM.
- ANCHOR FLOOR DECK UNITS TO STEEL SUPPORTING MEMBERS BY ARC SPOT PUDDLE WELDS OF THE FOLLOWING DIAMETER AND SPACING OR FILLET WELDS OF EQUAL STRENGTH.

WELD DIAMETERS SHALL BE MINIMUM VISIBLE 5/8 INCH. WELD EDGE RIBS OF PANELS AT EACH SUPPORT. SPACE ADDITIONAL WELDS AN AVERAGE OF 12 INCHES APART, BUT NOT MORE THAN 18 INCHES.

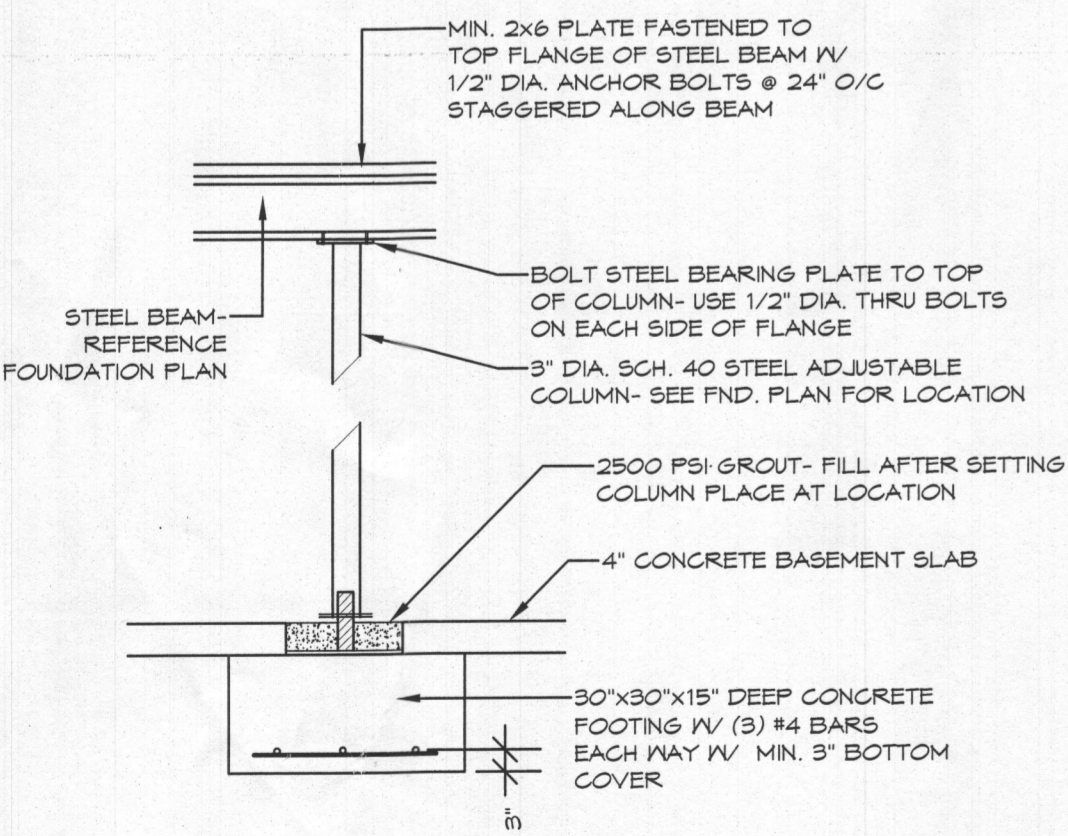
MECHANICAL FASTENERS SHALL BE EITHER POWDER ACTUATED OR PNEUMATICALLY DRIVEN, OR SCREWS MAY BE USED IN LIEU OF WELDING TO FASTEN DECK TO SUPPORTING FRAMING, PROVIDED THEY HAVE BEEN SPECIFICALLY APPROVED FOR USE BY THE DECK MANUFACTURER.

FASTEN SIDE LAPS AND PERIMETER EDGES OF UNITS BETWEEN SUPPORTS AT INTERVALS NOT EXCEEDING 36 INCHES (1 METER) ON CENTER, USING ONE OF THE FOLLOWING METHODS:

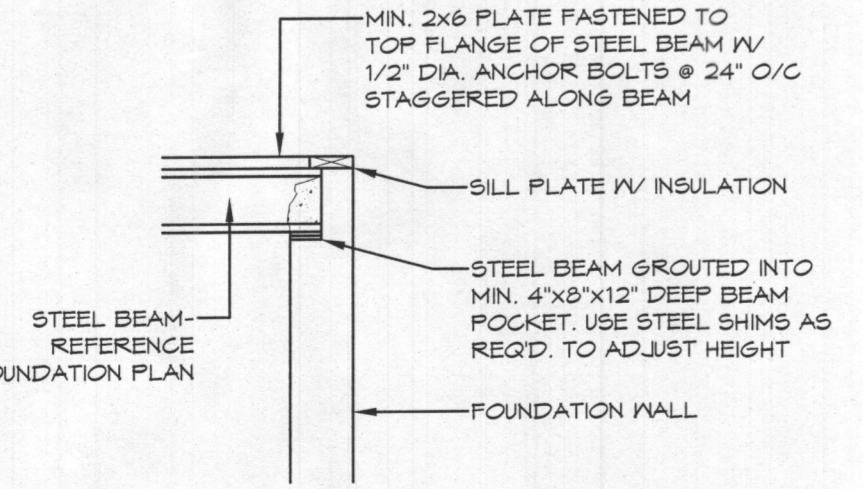
 - #10 SELF-DRILLING SCREWS;
 - DRUMP OR BUTTON PUNCH;
 - ARC PUDDLE WELDS 5/8 INCH MAXIMUM DIAMETER, OR 1 INCH LONG FILLET WELDS.
- INSTALL DECK ENDS OVER SUPPORTS WITH A MINIMUM END BEARING OF 5.0 INCHES.
- FASTEN POUR STOPS AND GIRDER FILLERS TO SUPPORTING STRUCTURE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
- FASTEN CLOSURES, CELL CLOSURES, AND Z CLOSURES TO DECK TO PROVIDE TIGHT FITTING CLOSURES AT OPEN ENDS OF RIBS AND SIDES OF DIXING. FASTEN CELL CLOSURES AT CHANGES OF DIRECTION OF FLOOR DECK UNITS UNLESS OTHERWISE DIRECTED.
- BEFORE CONCRETE PLACEMENT, THE DECK SHALL BE INSPECTED FOR TEARS, DENTS, OR OTHER DAMAGE THAT MAY PREVENT THE DECK FROM ACTING AS A TIGHT AND SUBSTANTIAL FORM. THE NEED FOR THE REPAIR OR TEMPORARY SHORING OF THE DAMAGED DECK SHALL BE DETERMINED.



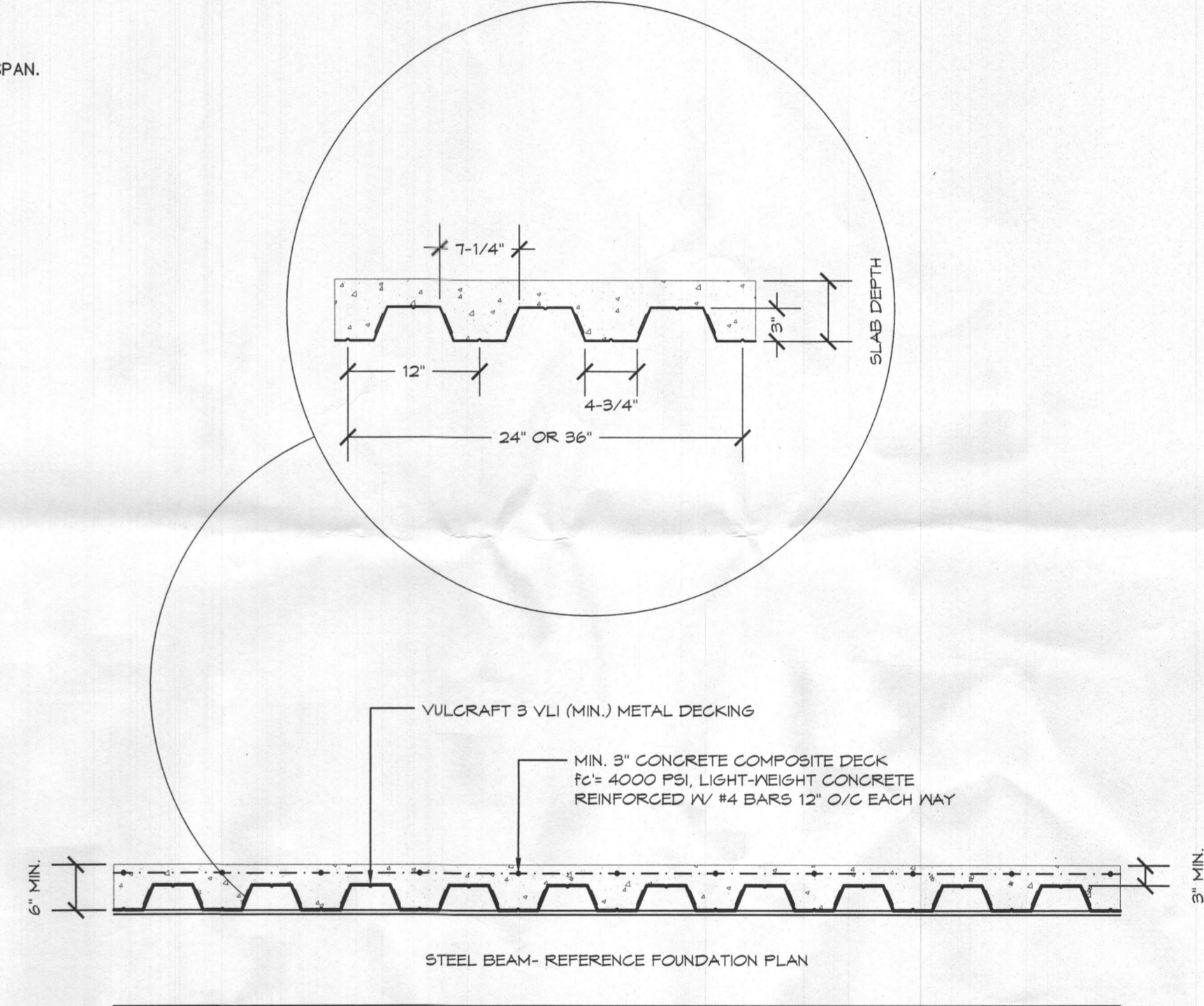
FOUNDATION PLAN
SCALE: 1/4"=1'-0"



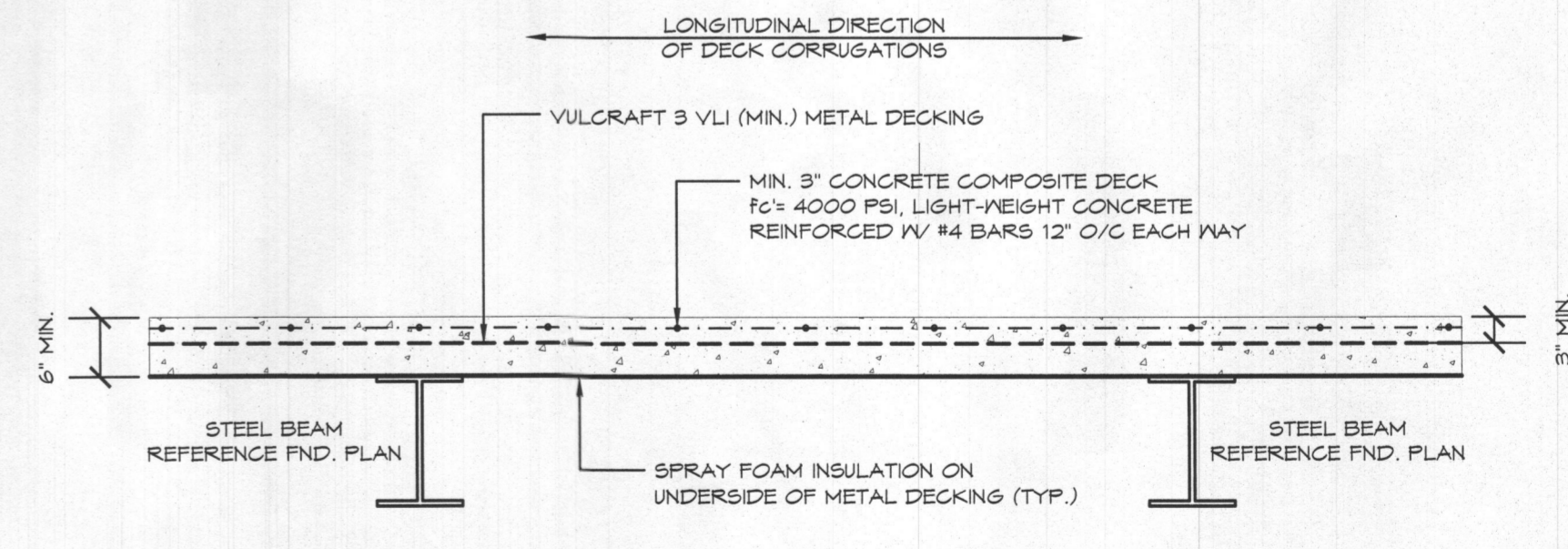
LALLY COLUMN DETAIL
SCALE: 1/2"=1'-0"



BEAM POCKET DETAIL
SCALE: 1/2"=1'-0"



COMPOSITE DECK CROSS-SECTIONAL DETAIL
NOT TO SCALE



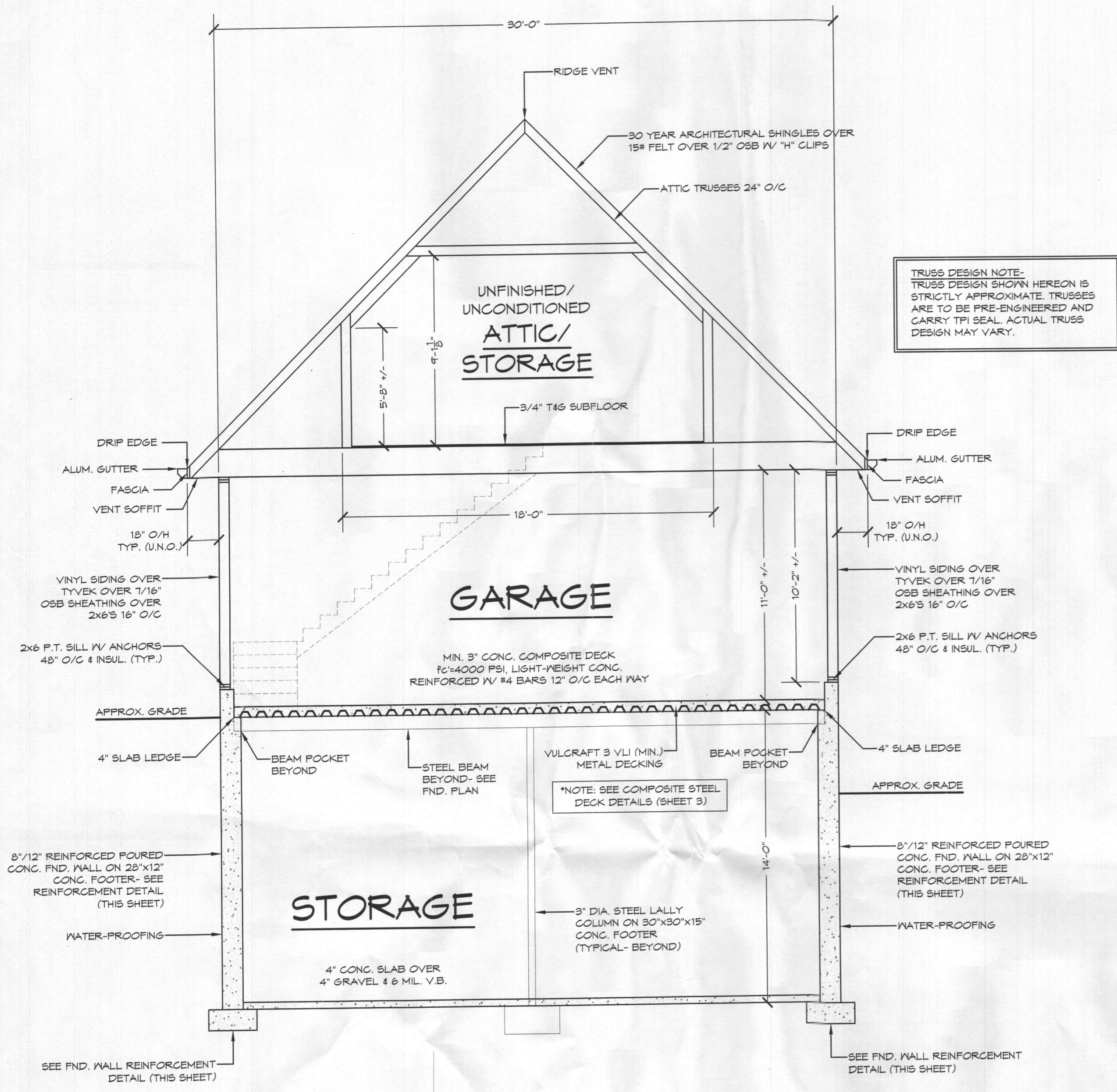
COMPOSITE DECK LONGITUDINAL DETAIL
NOT TO SCALE

** PROVIDE STEEL BEAM BRIDGING MEMBERS CONSISTING OF MINIMUM W6x15 STEEL BEAM OR EQUAL BELOW BEAMS IN COMPOSITE DECKING FOR ATTACHMENT OF DECK LAP JOINTS. STEEL BEAM BRIDGING MEMBERS ARE TO SPAN BETWEEN DECK SUPPORT BEAMS AND SHALL BE ATTACHED USING A BOLTED CONNECTION PLATE AS SHOWN ON THE DRAWINGS. CONNECTION PLATES SHALL ALSO BE WELDED USING 1/4" WELDS AROUND ALL CONNECTING SURFACES. BRIDGING MEMBERS AT LIMITS OF SUPPORT BEAMS ARE TO BE EXTENDED TO THE FOUNDATION WALLS AND BE SECURED WITHIN BEAM POCKETS.

REVISED 7/1/2020
REVISED 6/24/2020

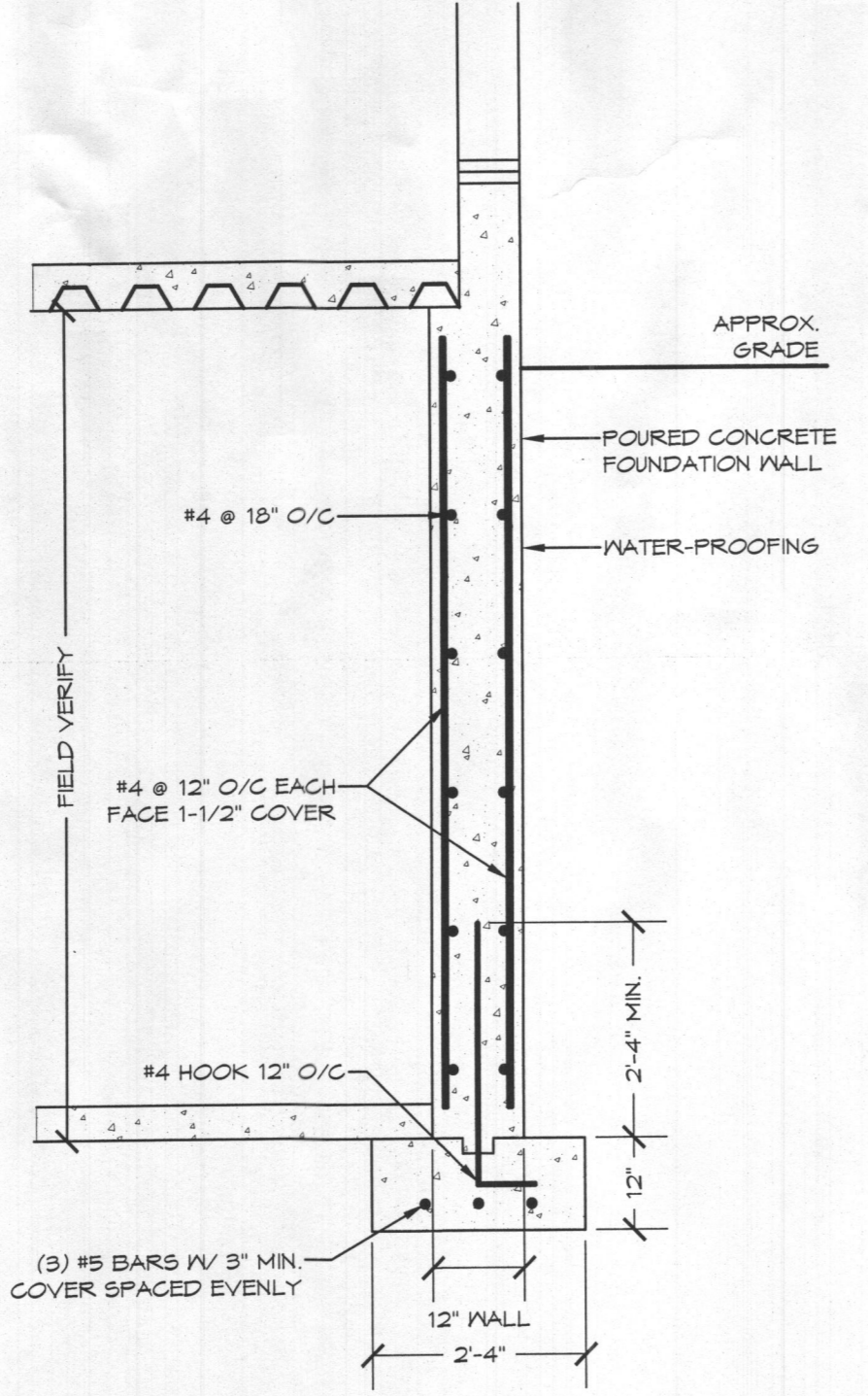
SCALE: 1/4"=1'-0"	FILE: HARRISON GARAGE
DATE: 6/2020	
SHEET NO.: 4 OF 7	

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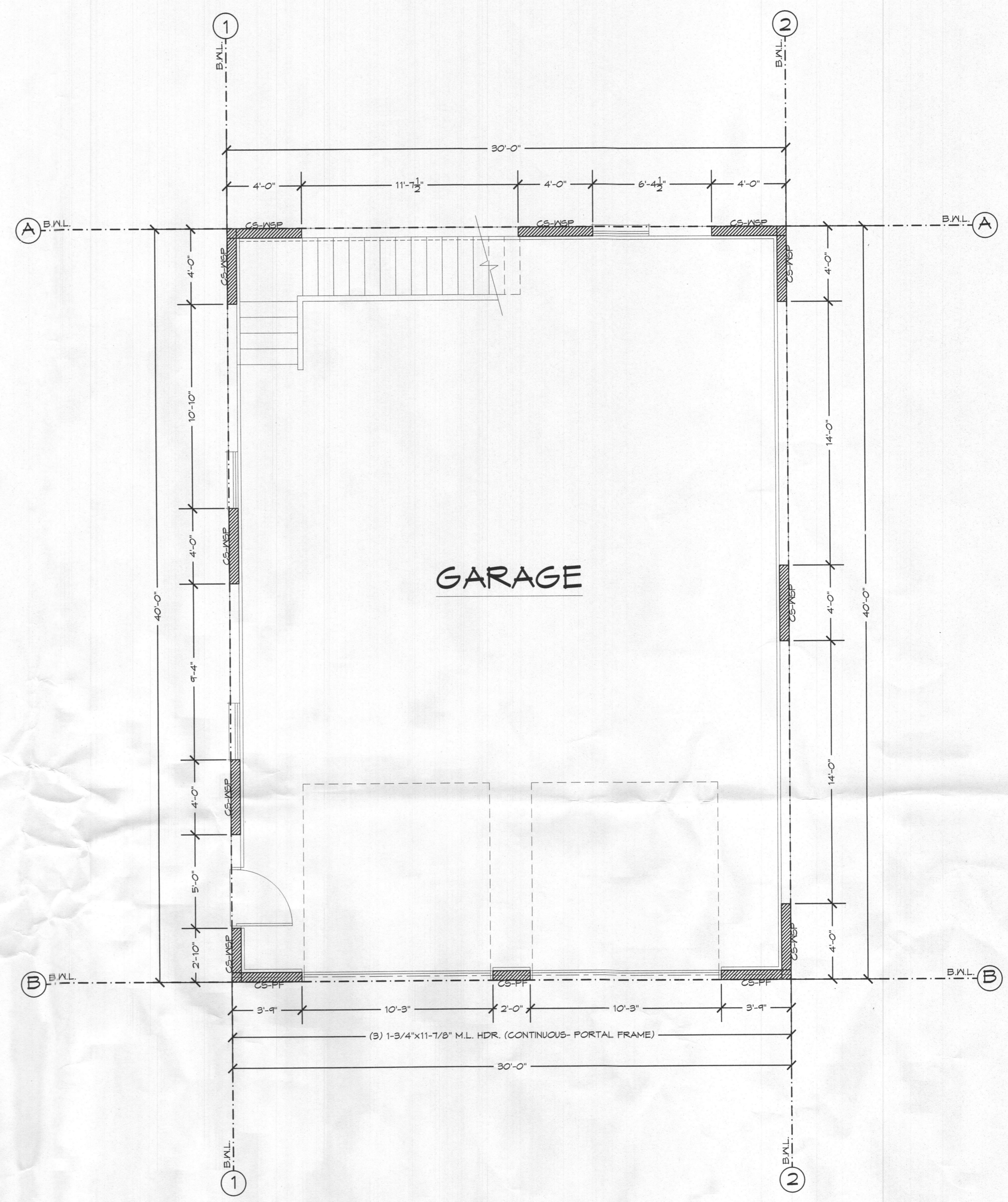


TRUSS DESIGN NOTE:
 TRUSS DESIGN SHOWN HEREON IS STRICTLY APPROXIMATE. TRUSSES ARE TO BE PRE-ENGINEERED AND CARRY TPI SEAL. ACTUAL TRUSS DESIGN MAY VARY.

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



REINFORCEMENT DETAIL FOR FOUNDATION WALLS
 SCALE: 1/2"=1'-0"



FIRST FLOOR WALL BRACING LAYOUT
 SCALE: 1/4"=1'-0"

- LEGEND:**
- CS-WSP CONTINUOUS SHEATHING- WOOD STRUCTURAL PANEL (-LENGTH)
 - CS-PF CONTINUOUS SHEATHED PORTAL FRAME
 - CS-G CONTINUOUS SHEATHING- GARAGE DOOR OPENING
 - GB GYPSUM 2 SIDED
 - ⊗ TIE DOWN DEVICE (-LBS)

WALL BRACING DESIGN INFO:

LOCATION: HOWARD COUNTY, MARYLAND
 SEISMIC CATEGORY: B
 WIND SPEED: 90 MPH

METHOD 3 (WOOD SHEATHING)/ CONTINUOUS SHEATHING
 METHOD 5 (GYPSUM BOARD)

*THESE DRAWINGS ARE LIMITED TO IRC WALL BRACING REQUIREMENTS ONLY.

R602.10.4 CONTINUOUS SHEATHING. BRACED WALL LINES WITH CONTINUOUS SHEATHING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THIS SECTION. ALL BRACED WALL LINES ALONG EXTERIOR WALLS ON THE SAME STORY SHALL BE CONTINUOUSLY SHEATHED.

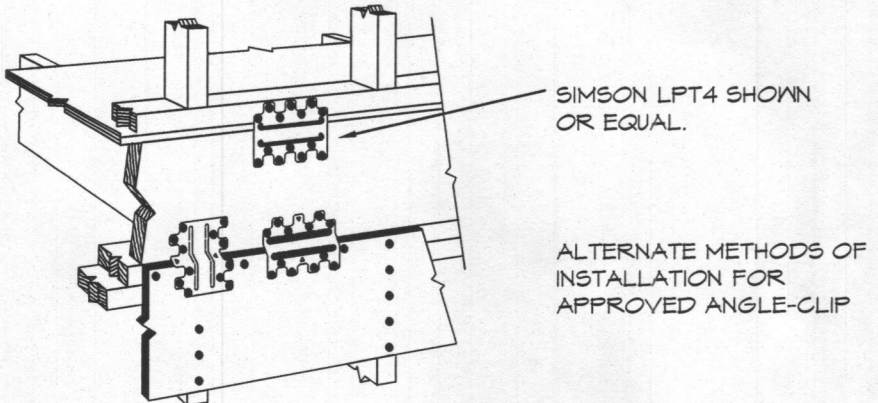
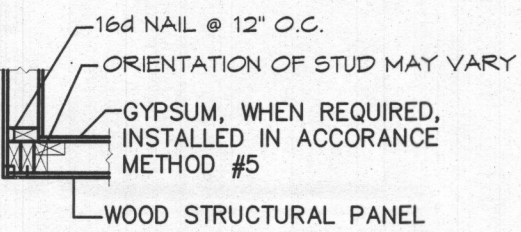
DETACHED GARAGE
THE HARRISON RESIDENCE

REVISED 7/1/2020
 REVISED 6/24/2020

FILE: HARRISON GARAGE
 SCALE: 1/4"=1'-0"
 DATE: 6/2020
 SHEET NO.: 6 OF 7

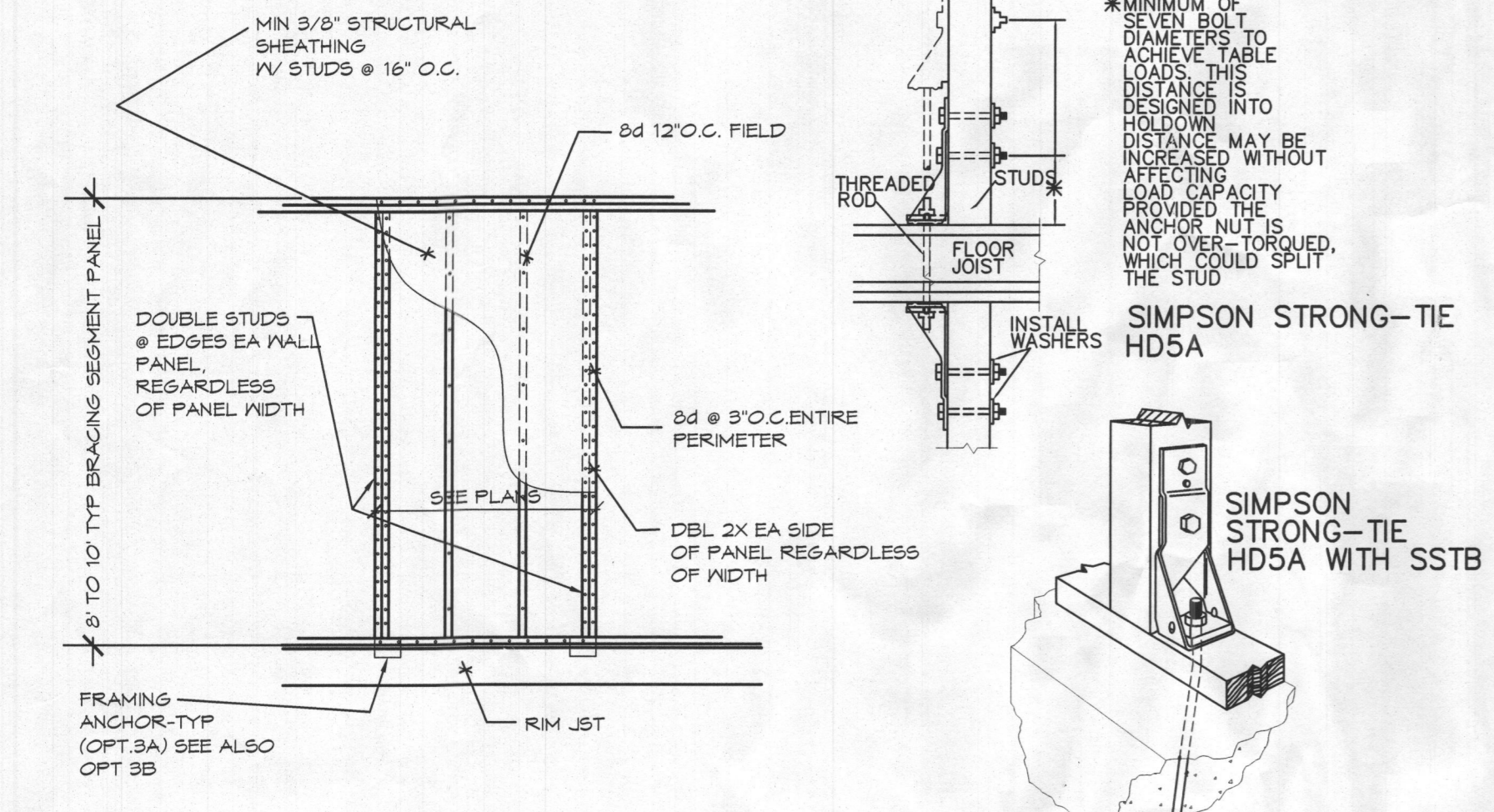
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AT CORNERS, CONNECT THE TWO WALLS TOGETHER AS OUTLINED IN THIS DETAIL TO PROVIDE OVERTURNING RESTRAINT.

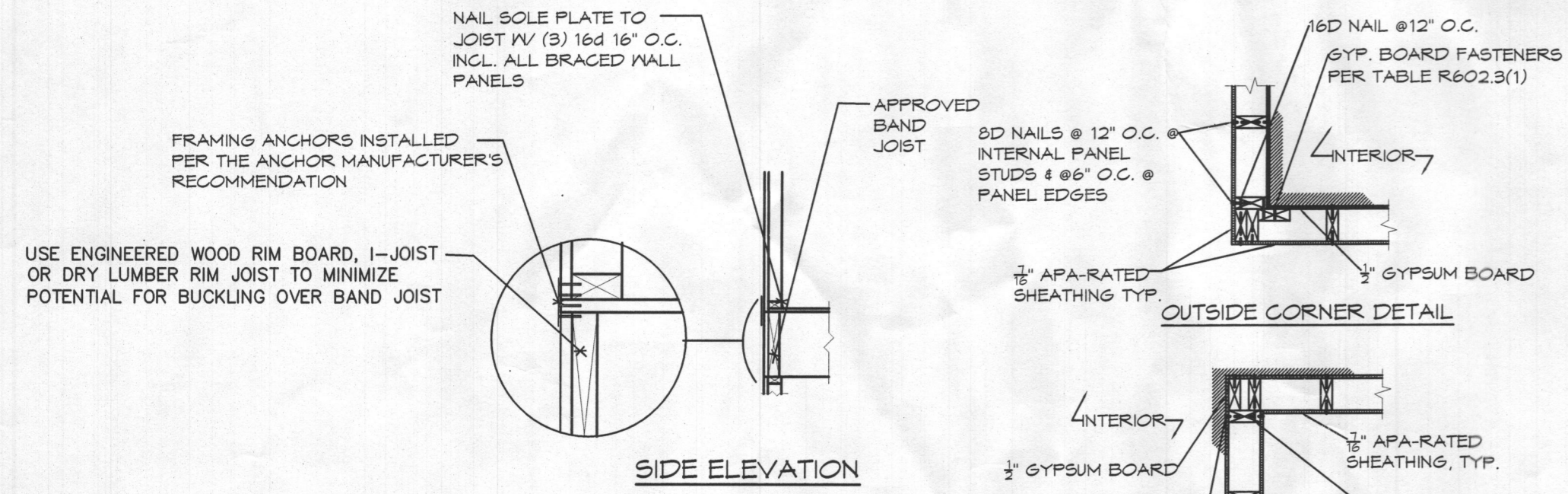


BRACED PANEL CONSTRUCTION RAISED WOOD FLOOR OR SECOND FLOOR INSTALLATION
SCALE: NOT TO SCALE

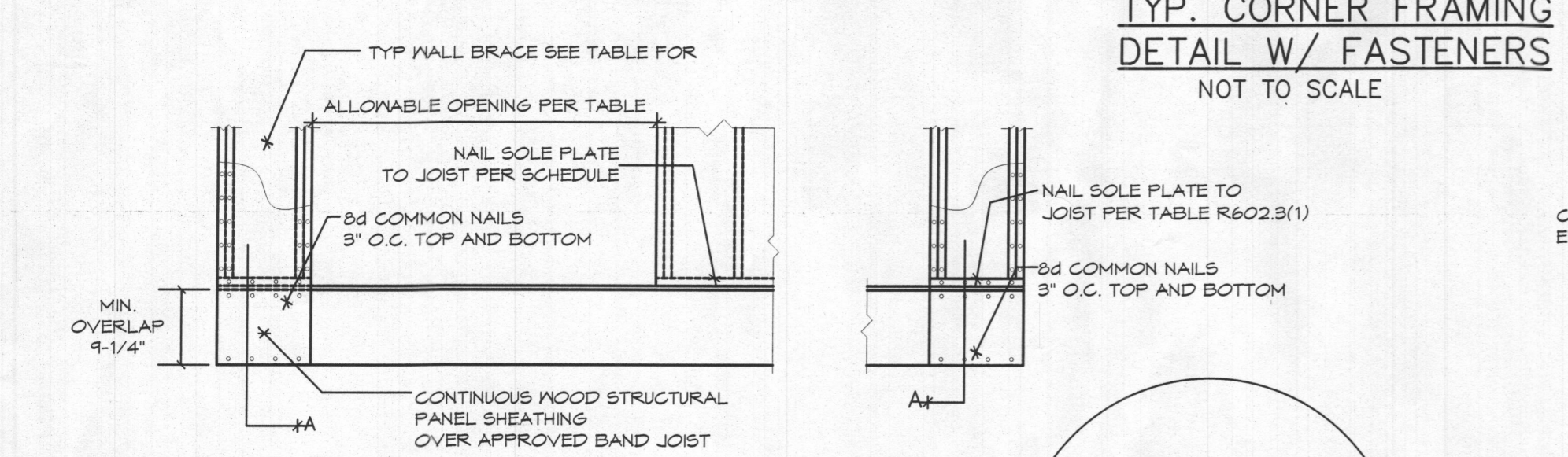
OUTSIDE CORNER DETAIL
SCALE: NOT TO SCALE



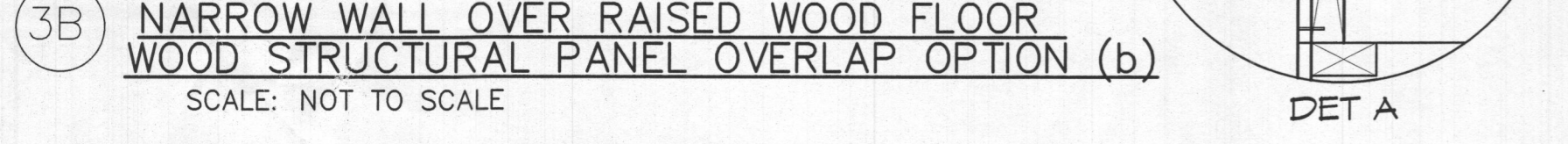
1 BRACED PANEL CONSTRUCTION (APA METHOD) RAISED WOOD FLOOR OR 2ND FLOOR
SCALE: NOT TO SCALE



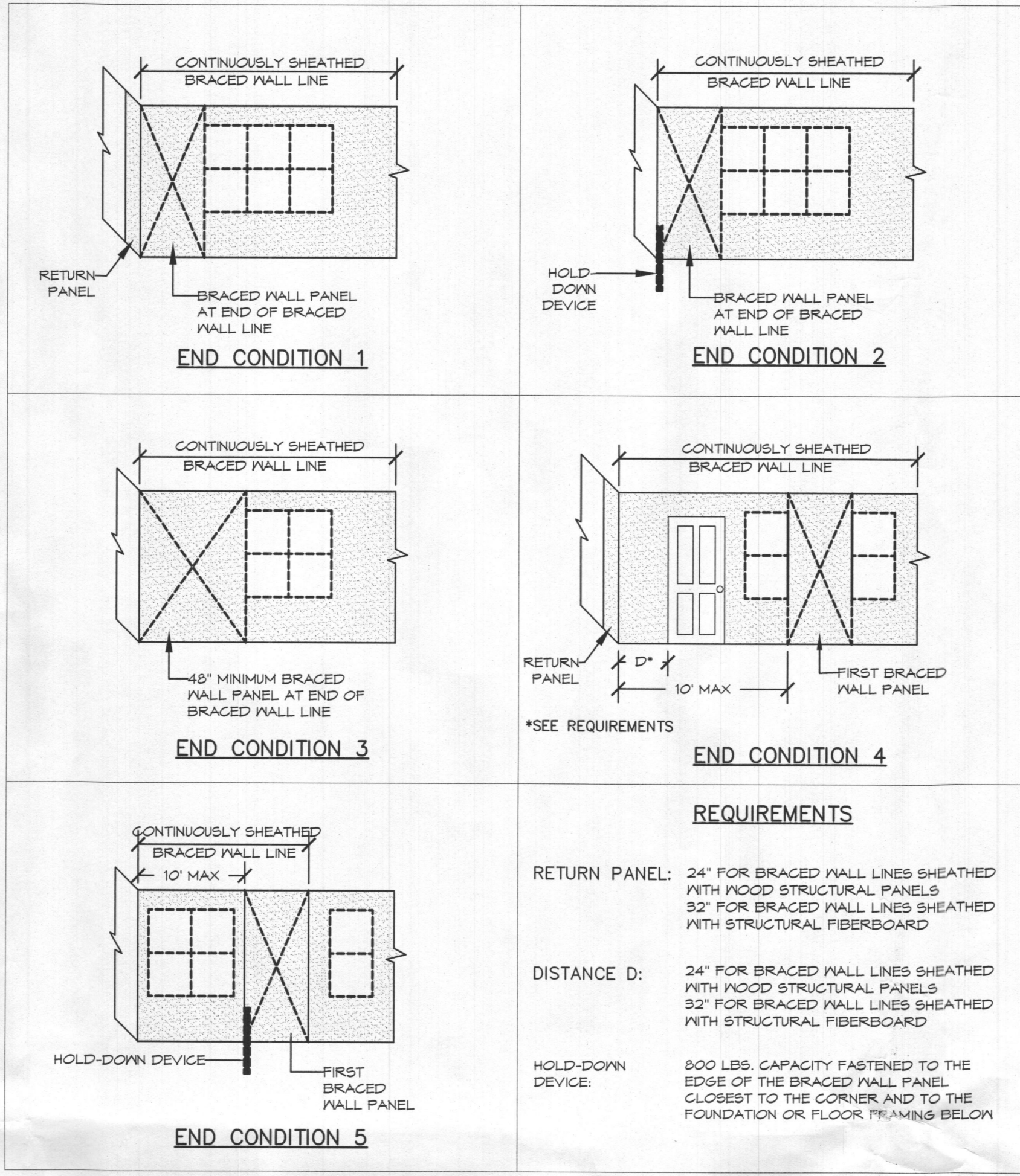
3A NARROW WALL OVER RAISED WOOD FLOOR FRAMING ANCHOR OPTION (a)
SCALE: NOT TO SCALE



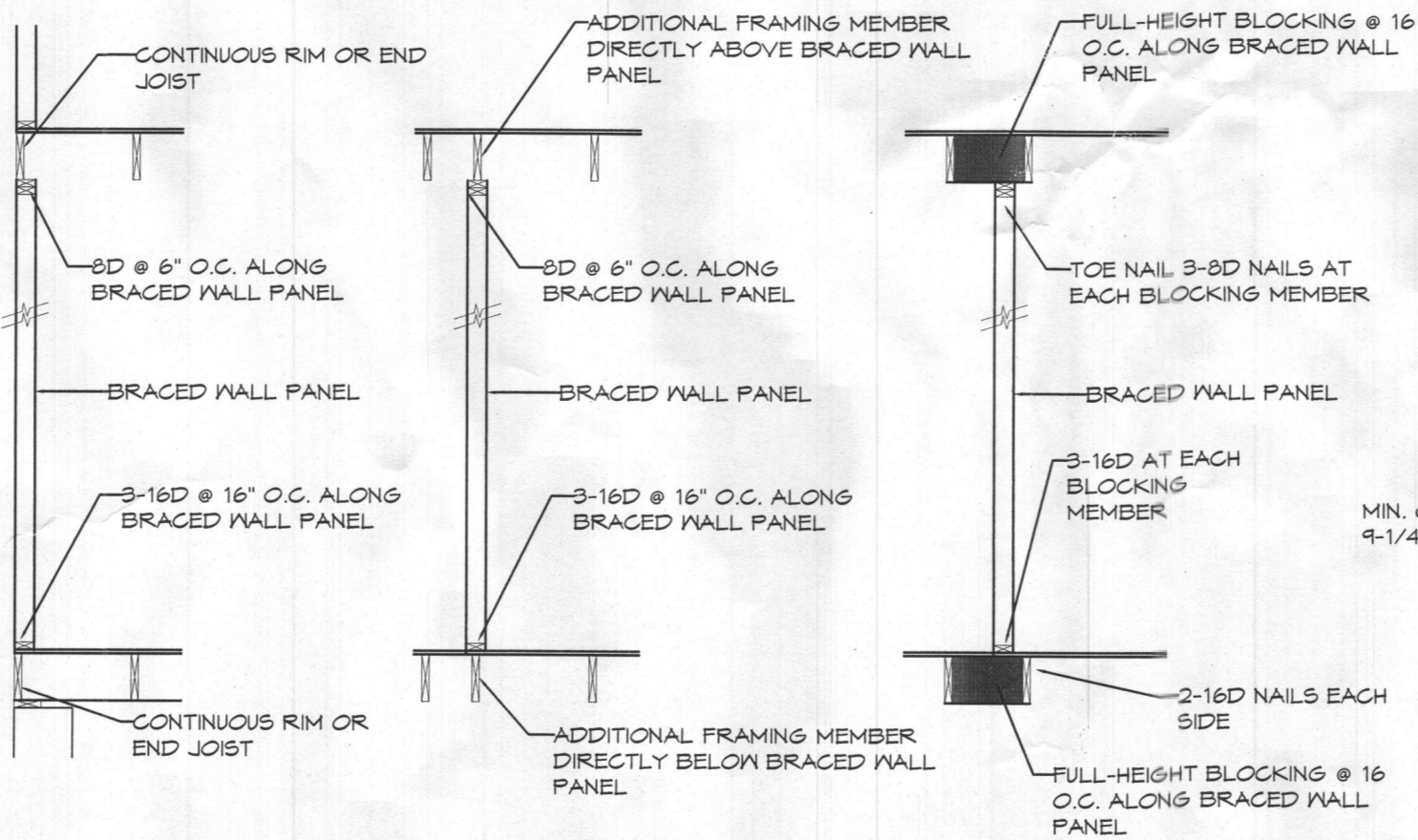
3B NARROW WALL OVER RAISED WOOD FLOOR WOOD STRUCTURAL PANEL OVERLAP OPTION (b)
SCALE: NOT TO SCALE



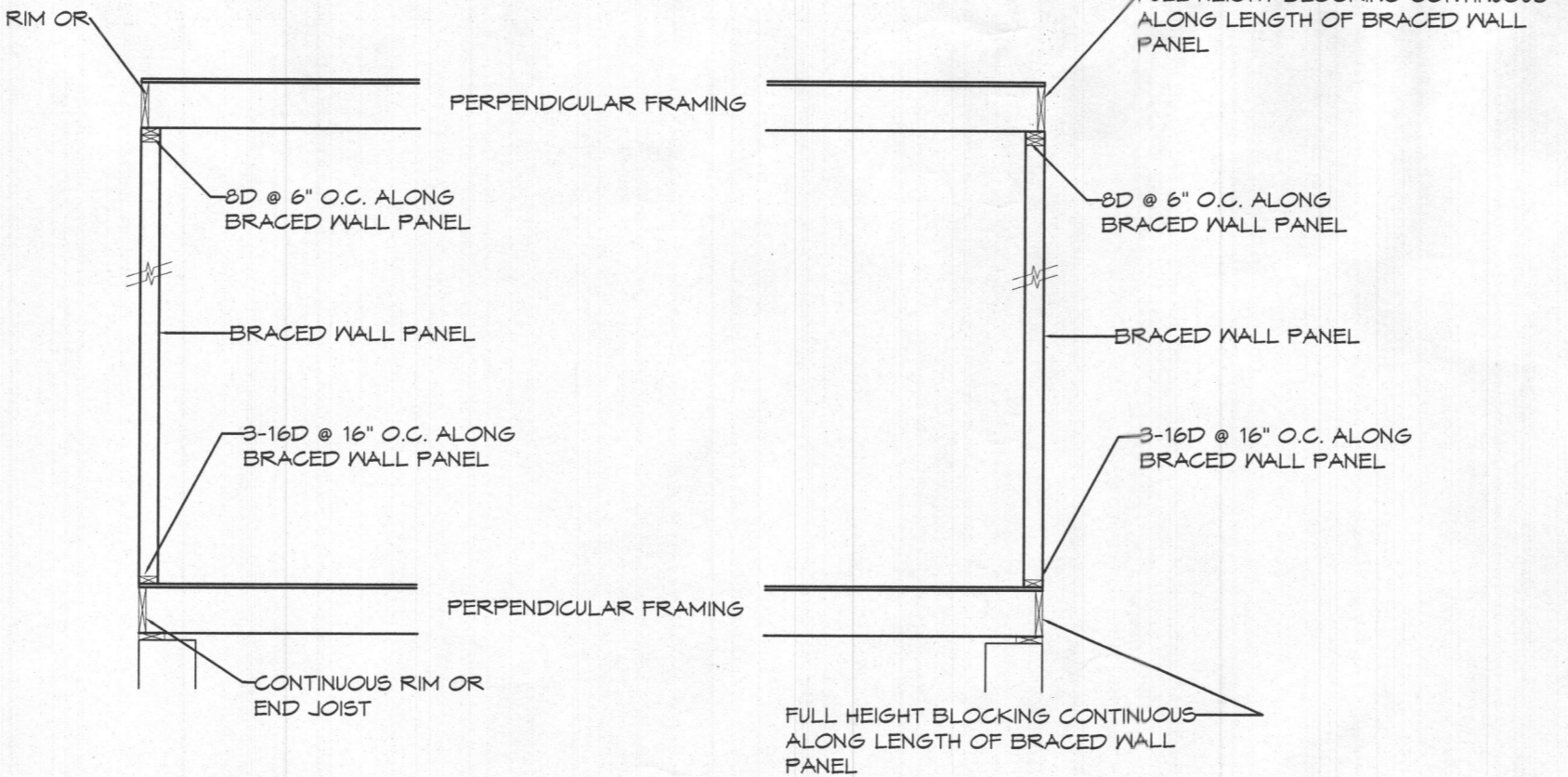
GENERAL NOTE: ALL VERTICAL JOINTS OF PANEL SHEATHING SHALL OCCUR OVER AND BE FASTENED TO COMMON STUDS. BLOCKING IS NOT REQUIRED BEHIND HORIZONTAL JOINTS IN SEISMIC CATEGORIES A & B WHEN METHOD 3 IS USED.



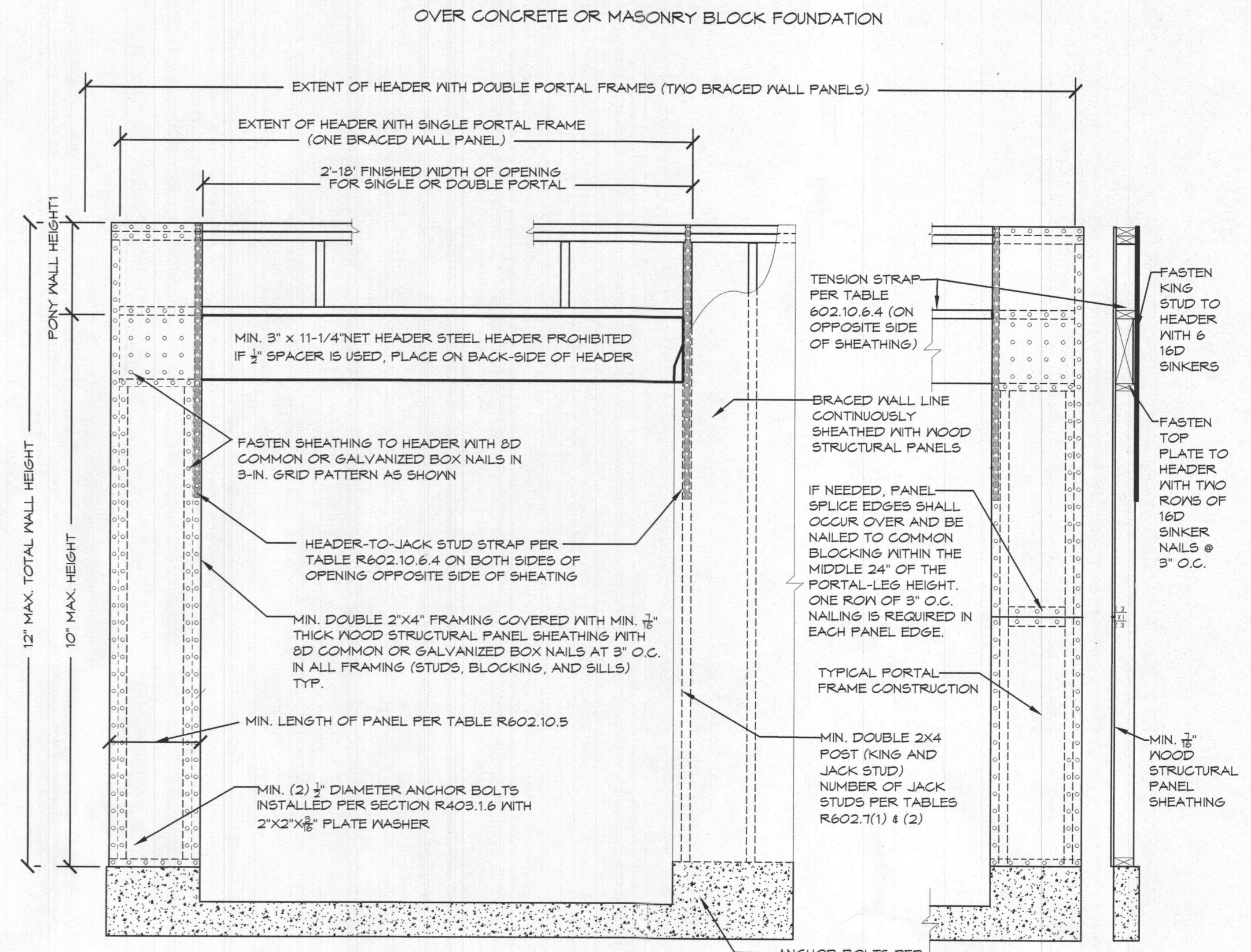
CORNER CONDITIONS
NOT TO SCALE



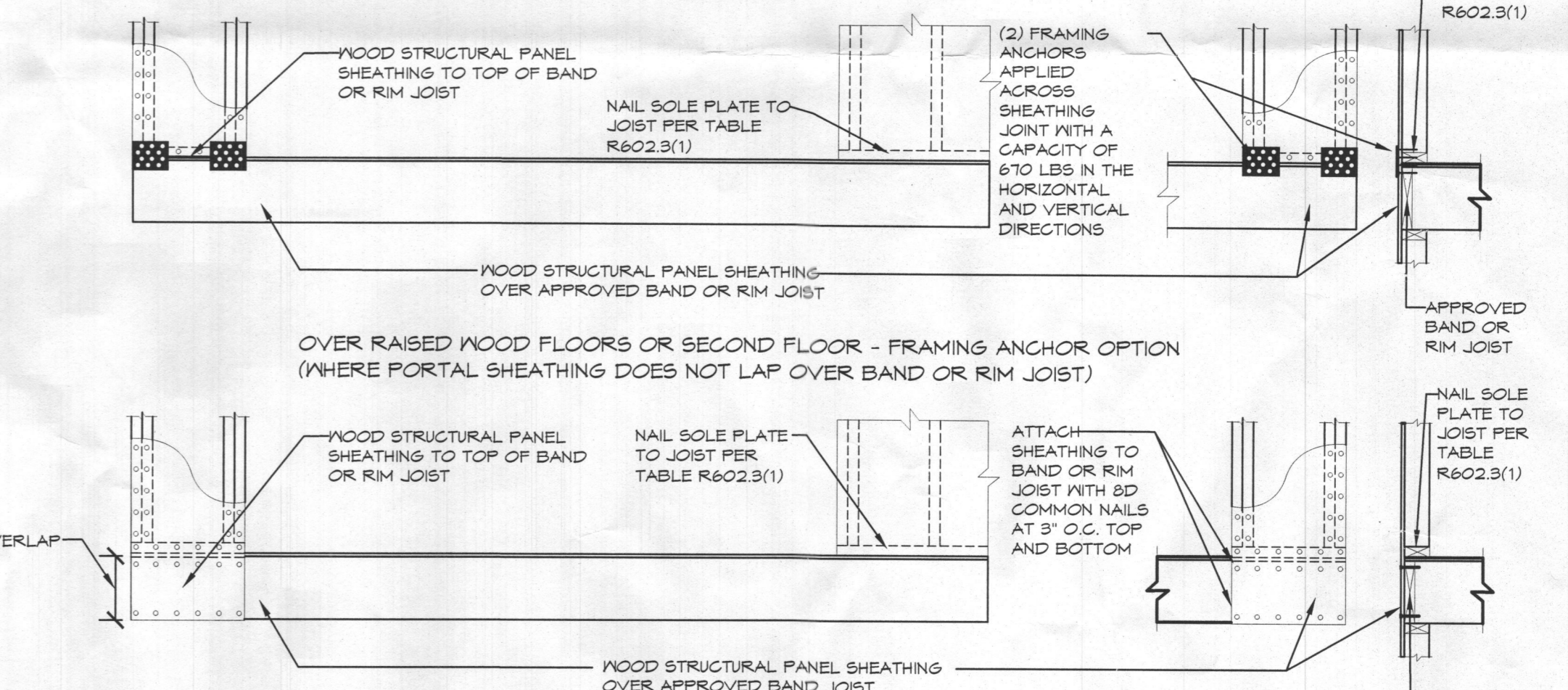
PARALLEL CONNECTIONS
NOT TO SCALE



PERPENDICULAR CONNECTIONS
NOT TO SCALE



CS-PF OVER CONCRETE OR MASONRY FOUNDATION
NOT TO SCALE



CS-PF OVER WOOD FLOOR
NOT TO SCALE

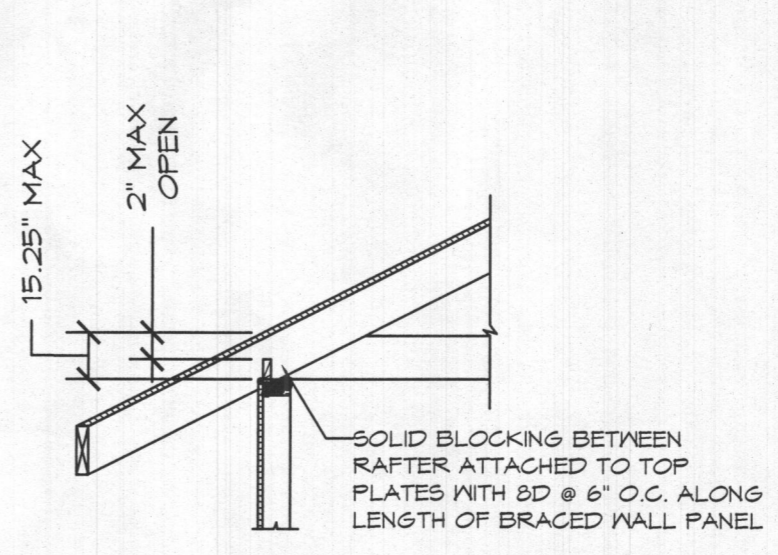


FIGURE R602.10.8.2(1) BRACED WALL PANEL CONNECTION TO PERPENDICULAR RAFTERS

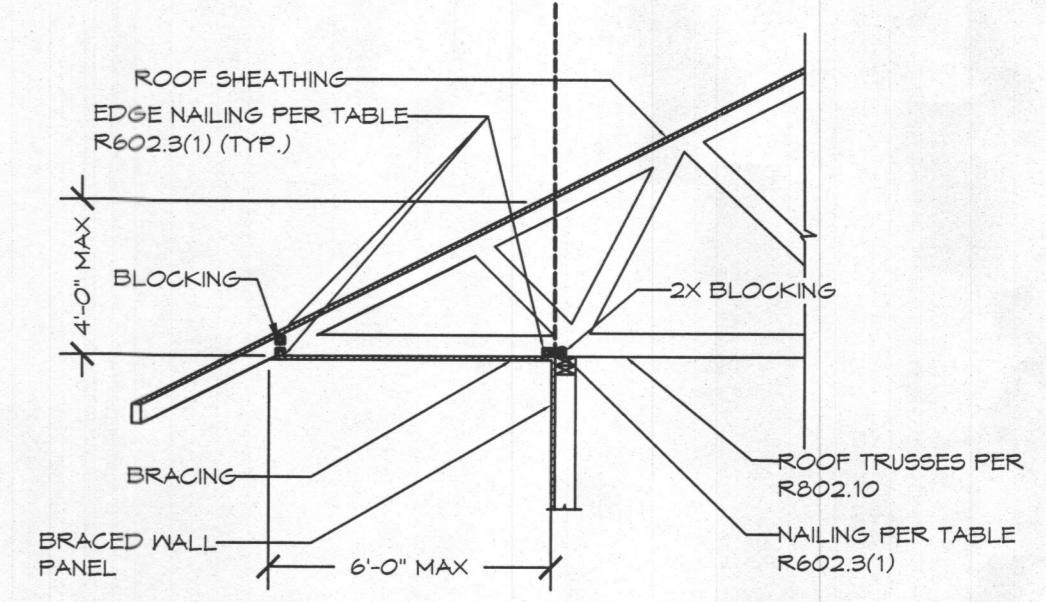
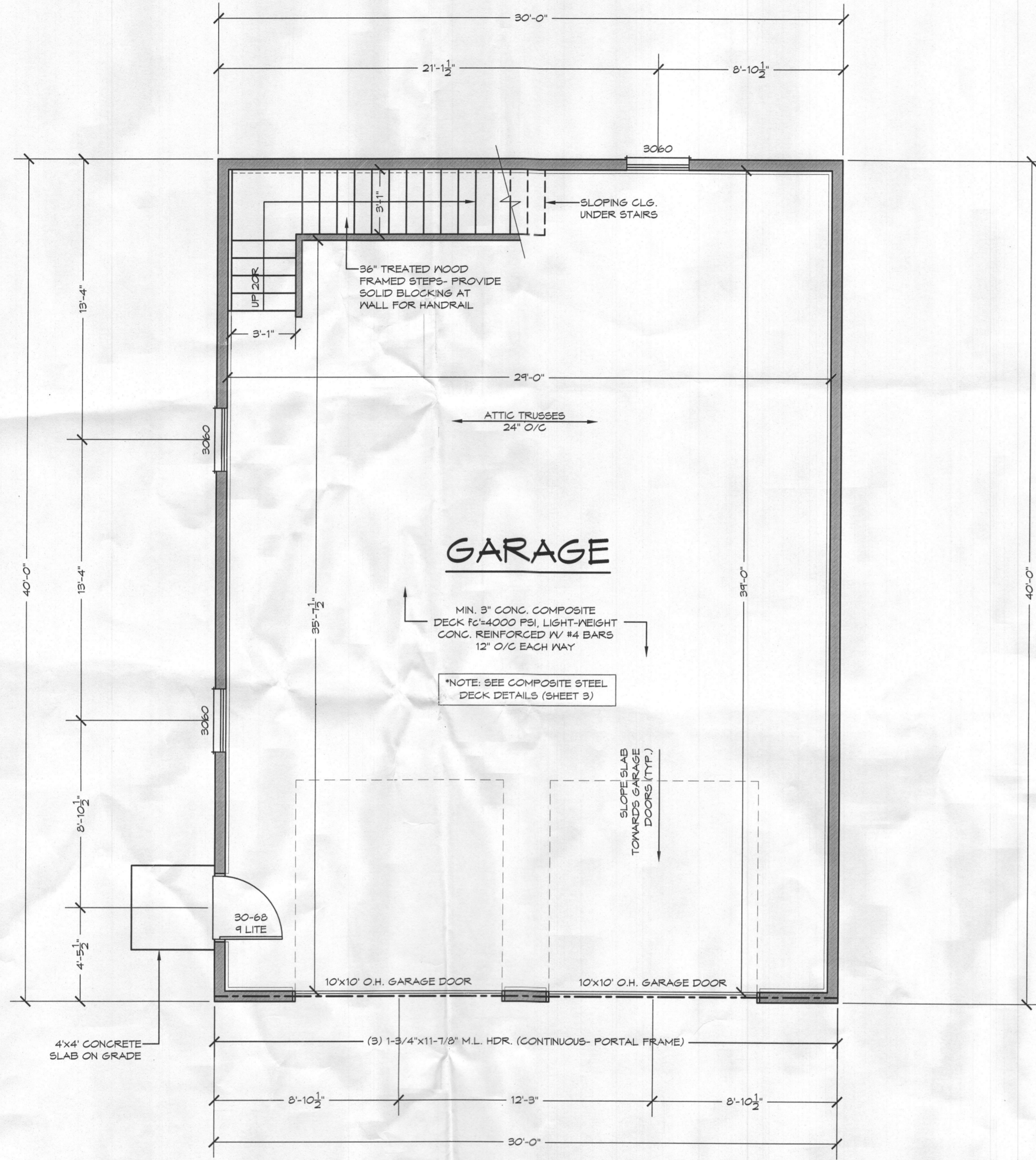


FIGURE R602.10.8.2(2) BRACED WALL PANEL CONNECTION OPTION TO PERPENDICULAR RAFTERS OR ROOF TRUSSES

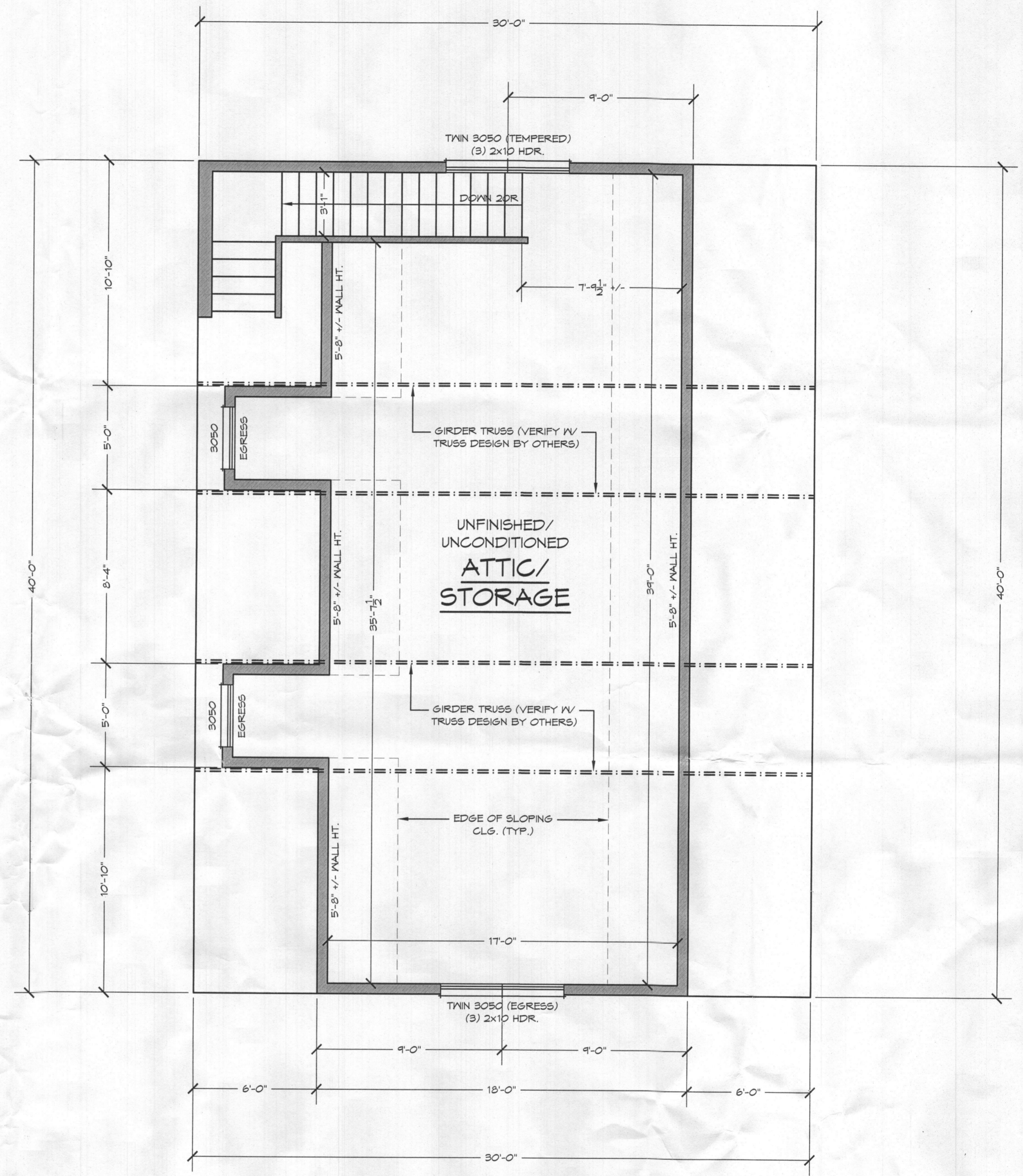
ROOF CONNECTIONS
NOT TO SCALE

DETACHED GARAGE
THE HARRISON RESIDENCE



FIRST FLOOR FRAMING PLAN

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

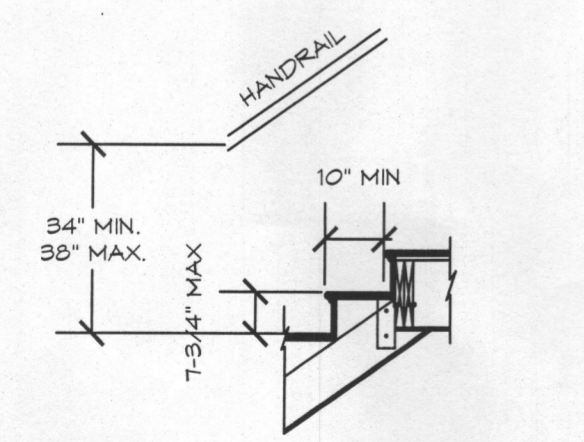


SECOND FLOOR FRAMING PLAN

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

R619.2 WINDOW SILLS
ALL WINDOWS WHERE THE OPERABLE OPENING IS LOCATED MORE THAN 12" ABOVE FINISHED GRADE OR SURFACE BELOW, THE LOWEST PART OF THE CLEAR OPENING SHALL BE A MIN. OF 24" ABOVE THE FINISHED FLOOR OF THE ROOM IN WHICH THE WINDOW IS LOCATED. GLAZING BETWEEN THE FLOOR AND 24" SHALL BE FIXED OR HAVE OPENINGS THROUGH WHICH A 4" DIA. SPHERE CANNOT PASS.

- EXCEPTIONS:
1. WINDOWS WHOSE OPENINGS WILL NOT ALLOW A 4" DIA. SPHERE TO PASS THROUGH THE OPENING WHEN THE OPENING IS IN ITS LARGEST OPENED POSITION.
 2. OPENINGS THAT ARE PROVIDED WITH WINDOW GUARDS THAT COMPLY WITH ASTM F 2006 OR F 2090.



TYPICAL STAIR SECTION

NOT TO SCALE
*NOTE: ALL STAIRS SHALL BE CONSTRUCTION IS ACCORDANCE WITH IRC 2015 SECTION R314

GENERAL NOTES:

- PROPOSED WINDOWS SHOWN ARE ANDERSEN 200 SERIES (VINYL SIZES) SIZES MEET OR EXCEED EGRESS CLEAR OPENING AREA OF 5.7 SQ.FT., CLEAR OPENING WIDTH OF 20" & CLEAR OPENING HEIGHT OF 24"
- FINAL GRADE SHOWN HEREON IS STRICTLY APPROXIMATE. CONTRACTOR TO FIELD VERIFY.

DETACHED GARAGE
THE HARRISON RESIDENCE

REVISED 7/1/2020
REVISED 6/29/2020

SCALE: 1/4"=1'-0"	FILE: HARRISON GARAGE
DATE: 6/2020	
SHEET NO.: 5 OF 7	
GBL CUSTOM HOME DESIGN INC.	
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