

TYP. TRUSSED ROOF CONST:
 ARCH COMPOSITION ROOFING
 OVER ONE LAYER 15" A.S.F. BASE
 OVER 24/16" SHEATHING OVER
 TRUSSES

2x12 TRANSITION BRD.

TYP. WALL CONST. (SHINGLES)
 CEDAR SHINGLES w/ 8"
 EXPOSURE OVER 1/16" OSB
 SHEATHING OVER 2x6 WALL
 w/ STUDS @ 16" O.C. w/ INSUL.

5/4x6 CORNER TRIM, TYP.

2x12 BELLY BAND

4x4 COLUMN BU. TO 8x8

T.O. RIDGE
 +23'-5"

T.O. DBL TOP PLATE
 +18'-2 1/4"

T.O. WINDOW R.O.
 +16'-9 1/8"

TYP. WALL CONST. (LAP SIDING)
 "HARDIPLANK" LAP SIDING
 OVER TYVEK OR EQUAL BLDG.
 WRAP OVER 1/16" OSB SHTG.
 OVER 2x6 WALL w/ STUDS @ 16"
 O.C. w/ INSUL.

T.O. SUBFLOOR
 +10'-1 1/8"

T.O. DBL TOP PLATE
 +9'-1 1/8"

T.O. DOOR R.O.
 +7'-10 1/2"

1x4 TRIM, TYP.

T.O. SUBFLOOR
 0'-0"

T.O. GARAGE SLAB
 VERIFY

FRONT ELEVATION

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

T.O. RIDGE
 +21'-11"

T.O. DBL TOP PLATE
 +18'-2 1/4"

T.O. WINDOW R.O.
 +16'-9 1/8"

2x12 BELLY BAND

T.O. SUBFLOOR
 +10'-1 1/8"

T.O. DBL TOP PLATE
 +9'-1 1/8"

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 "HARDIPLANK" LAP SIDING
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 WRAP OVER 1/16" OSB SHTG.
 OVER 2x6 WALL w/ STUDS @ 16"
 O.C. w/ INSUL.

5/4x6 CORNER TRIM, TYP.

T.O. SUBFLOOR
 0'-0"

TYP. TRUSSED ROOF CONST:
 ARCH COMPOSITION ROOFING
 OVER ONE LAYER 15" A.S.F. BASE
 OVER 24/16" SHEATHING OVER
 TRUSSES

RIGHT ELEVATION

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

CARSON B

1,464 TOTAL SQ. FT.

PLAN NUMBER 122308

Sunteel
 DESIGN INC.
 18865 Boones Ferry Road, Suite 202, Lake Oswego, Oregon 97035
 Tel: (503) 624 0555 • Fax: (503) 624 0155
 www.sunteelhomemedesign.com

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JOB NAME: CARSON B.GR
 DATE: 09/17/18

1

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 ARCH COMPOSITION ROOFING
 OVER ONE LAYER 15" A.S.F. BASE
 OVER 24/16" SHEATHING OVER
 TRUSSES

T.O. DBL TOP PLATE
 +18'-2 1/4"

T.O. WINDOW R.O.
 +16'-9 1/8"

TYP. WALL CONST. (LAP SIDING)
 "HARDPLANK" LAP SIDING
 OVER TYVEK OR EQUAL BLDG.
 WRAP OVER 1/16" OSB SHTG.
 OVER 2x6 WALL w/ STUDS @ 16"
 O.C. w/ INSUL.

T.O. SUBFLOOR
 +10'-1 1/8"

T.O. DBL TOP PLATE
 +9'-1 1/8"

T.O. WINDOW R.O.
 +7'-10 1/2"

T.O. SUBFLOOR
 0'-0"



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

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 OVER 24/16" SHEATHING OVER
 TRUSSES

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 "HARDPLANK" LAP SIDING
 OVER TYVEK OR EQUAL BLDG.
 WRAP OVER 1/16" OSB SHTG.
 OVER 2x6 WALL w/ STUDS @ 16"
 O.C. w/ INSUL.



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

T.O. RIDGE
 +27'-11"

T.O. DBL TOP PLATE
 +18'-2 1/4"

T.O. WINDOW R.O.
 +16'-9 1/8"

T.O. SUBFLOOR
 +10'-1 1/8"

T.O. DBL TOP PLATE
 +9'-1 1/8"

T.O. WINDOW R.O.
 +7'-10 1/2"

4x4 COLUMN B.U. TO 8x8

TYP. WALL CONST. (LAP SIDING)
 "HARDPLANK" LAP SIDING
 OVER TYVEK OR EQUAL BLDG.
 WRAP OVER 1/16" OSB SHTG.
 OVER 2x6 WALL w/ STUDS @ 16"
 O.C. w/ INSUL.

T.O. SUBFLOOR
 0'-0"

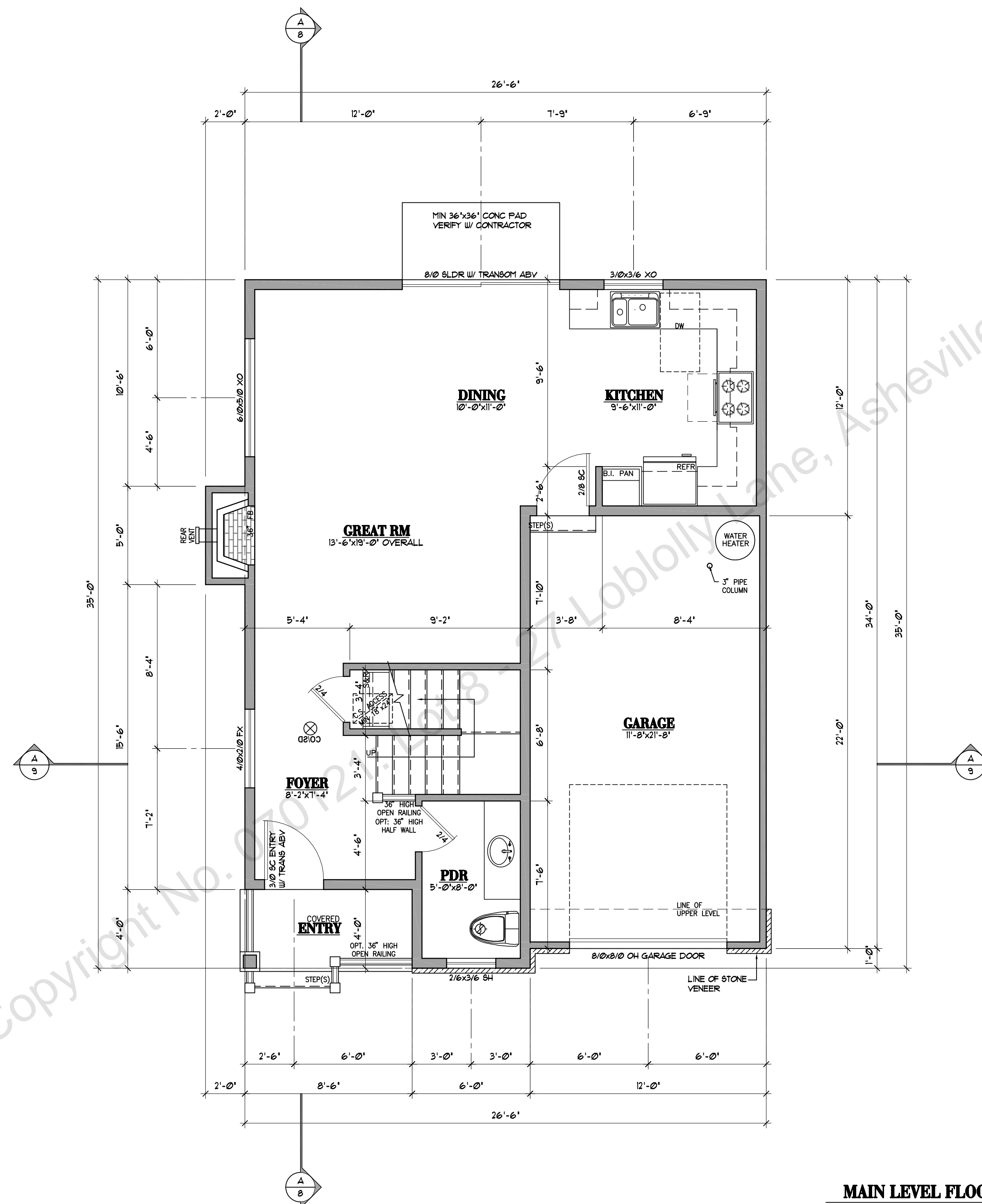
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JOB NAME: CARSON B GR
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REVERSE

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MAIN LEVEL FLOOR PLAN

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

617 SQ. FT.

CARSON B

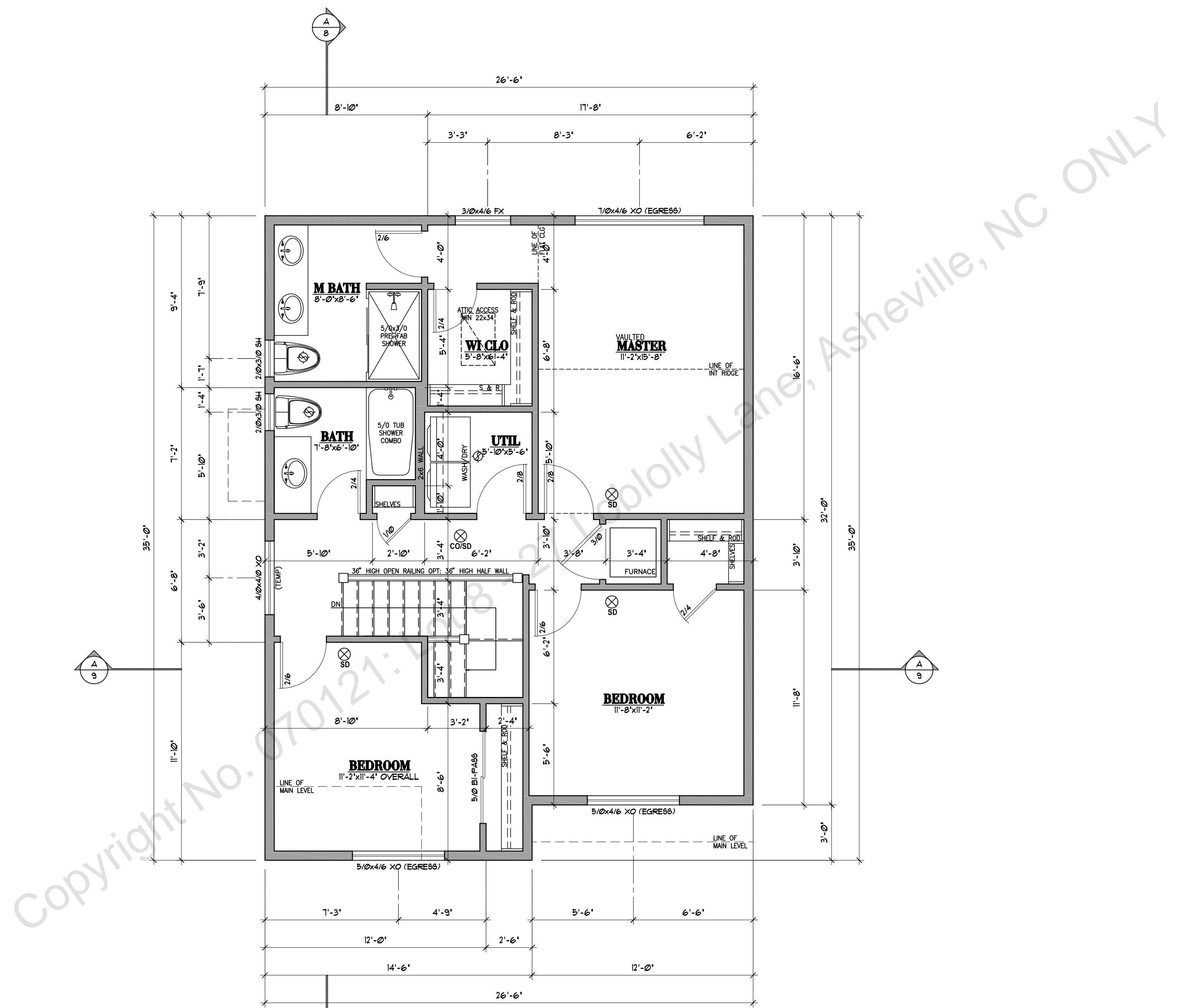
PLAN NUMBER 122308

1,464 TOTAL SQ. FT.

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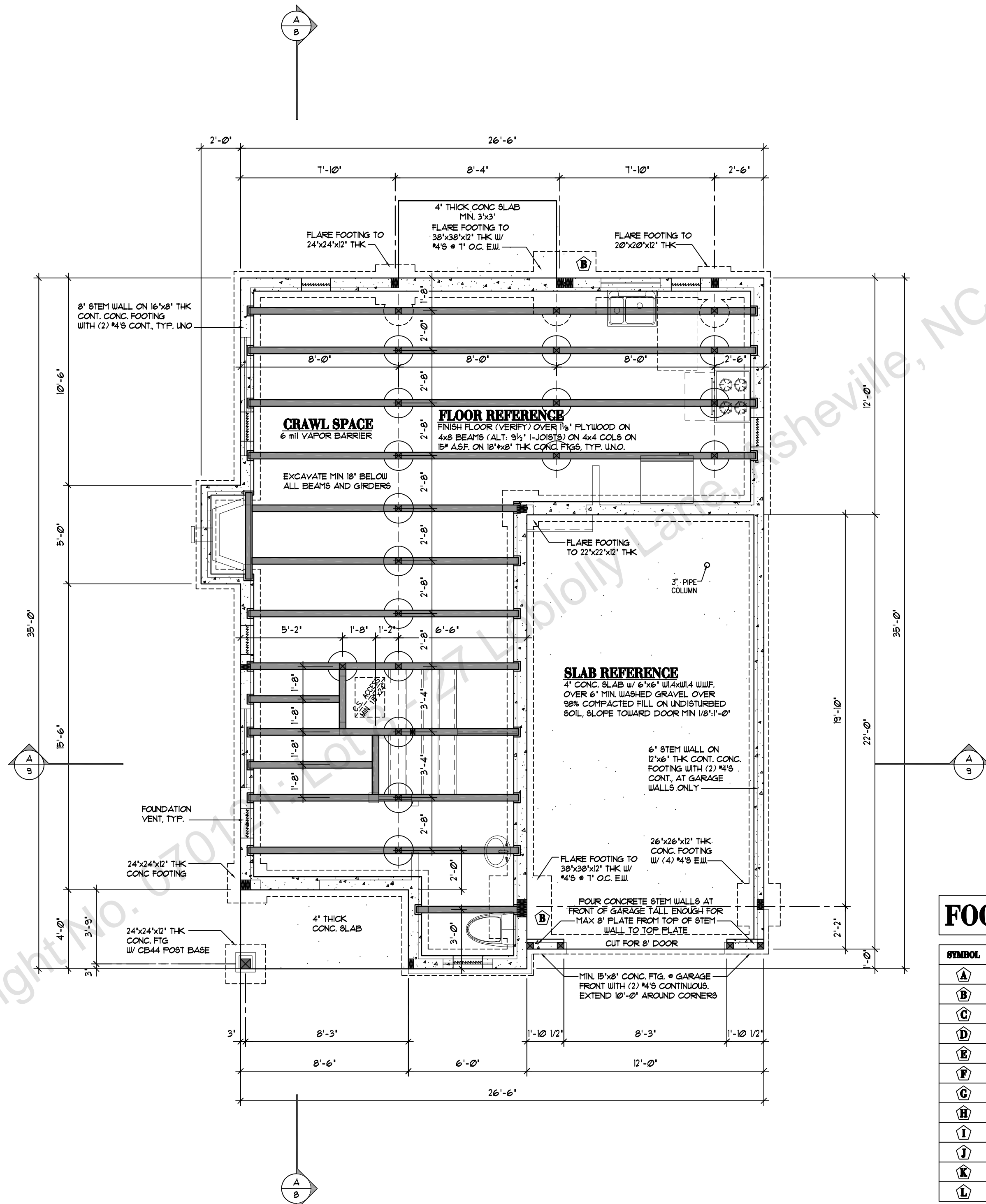


UPPER LEVEL FLOOR PLAN
SCALE: 1/4"=1'-0" **847 SQ. FT.**

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FOUNDATION PLAN- 32' O.C. POST & BEAM
 SCALE: 1/4"=1'-0"

FOOTING LEGEND

SYMBOL	DESCRIPTION
A	2'-10" x 2'-10" x 1'-0" CONC. FTG. w/ 4" S @ 6" O.C. EA. WAY
B	3'-2" x 3'-2" x 1'-0" CONC. FTG. w/ 4" S @ 1" O.C. EA. WAY
C	3'-6" x 3'-6" x 1'-0" CONC. FTG. w/ 4" S @ 1" O.C. EA. WAY
D	3'-9" x 3'-9" x 1'-0" CONC. FTG. w/ 4" S @ 1" O.C. EA. WAY
E	4'-0" x 4'-0" x 1'-0" CONC. FTG. w/ 4" S @ 8" O.C. EA. WAY
F	4'-4" x 4'-4" x 1'-0" CONC. FTG. w/ 4" S @ 1" O.C. EA. WAY
G	4'-6" x 4'-6" x 1'-0" CONC. FTG. w/ 4" S @ 1" O.C. EA. WAY
H	4'-8" x 4'-8" x 1'-0" CONC. FTG. w/ 4" S @ 8" O.C. EA. WAY
I	4'-10" x 4'-10" x 1'-0" CONC. FTG. w/ 4" S @ 1" O.C. EA. WAY
J	1'-4" x 8" CONT. CONC. FOOTING w/ (3) 4" S CONTINUOUS
K	1'-6" x 10" CONT. CONC. FOOTING w/ (3) 4" S CONTINUOUS
L	1'-0" x 6" CONT. CONC. FOOTING w/ (2) 4" S CONTINUOUS

REFER TO S SHEETS FOR SHEAR PANEL & ANCHOR BOLT SPACING INFORMATION

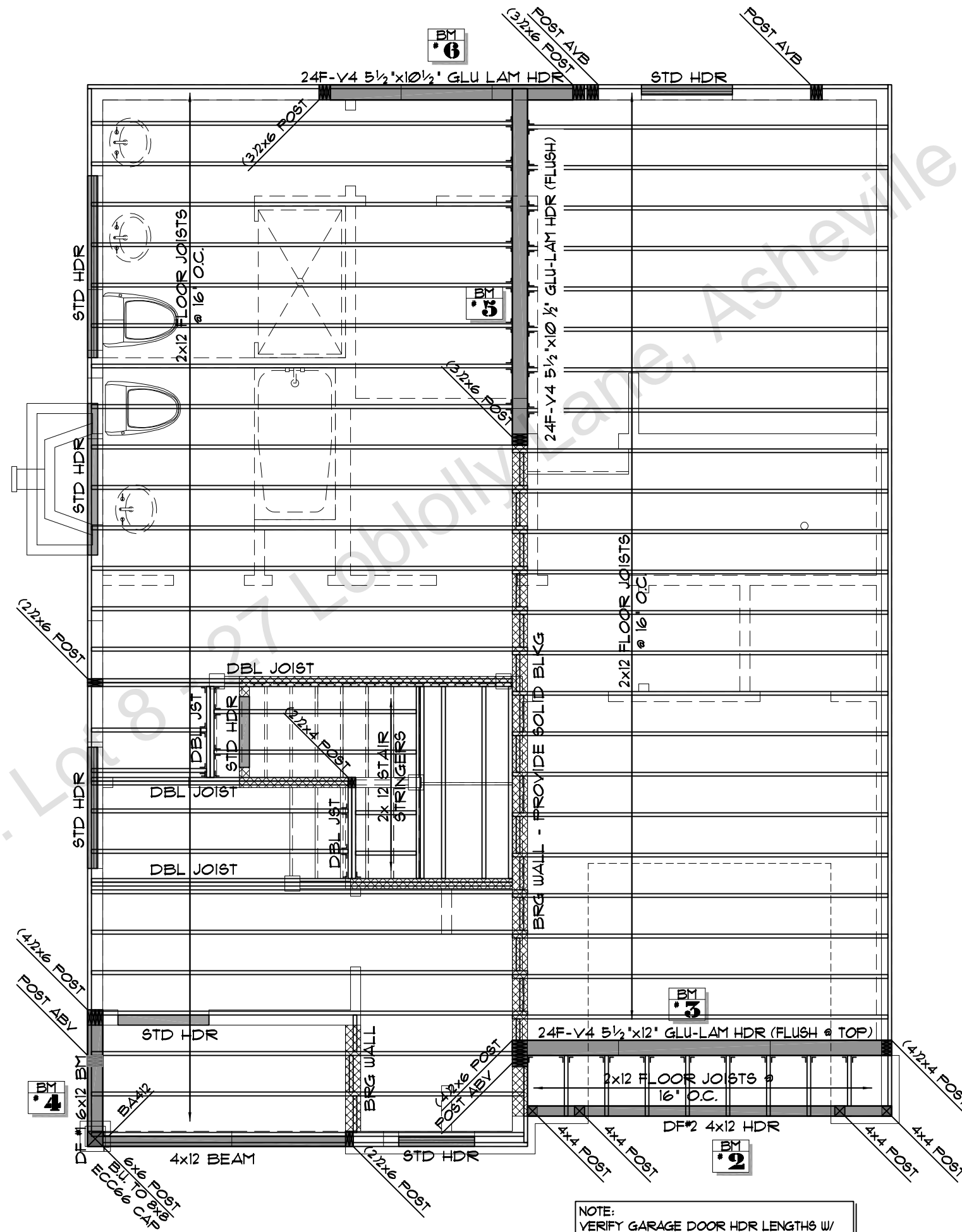
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REVERSE

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NOTE:
VERIFY GARAGE DOOR HDR LENGTHS W/
LATERAL ENGINEERING PRIOR TO FRAMING

UPPER LEVEL FRAMING PLAN

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

2x12 JOIST



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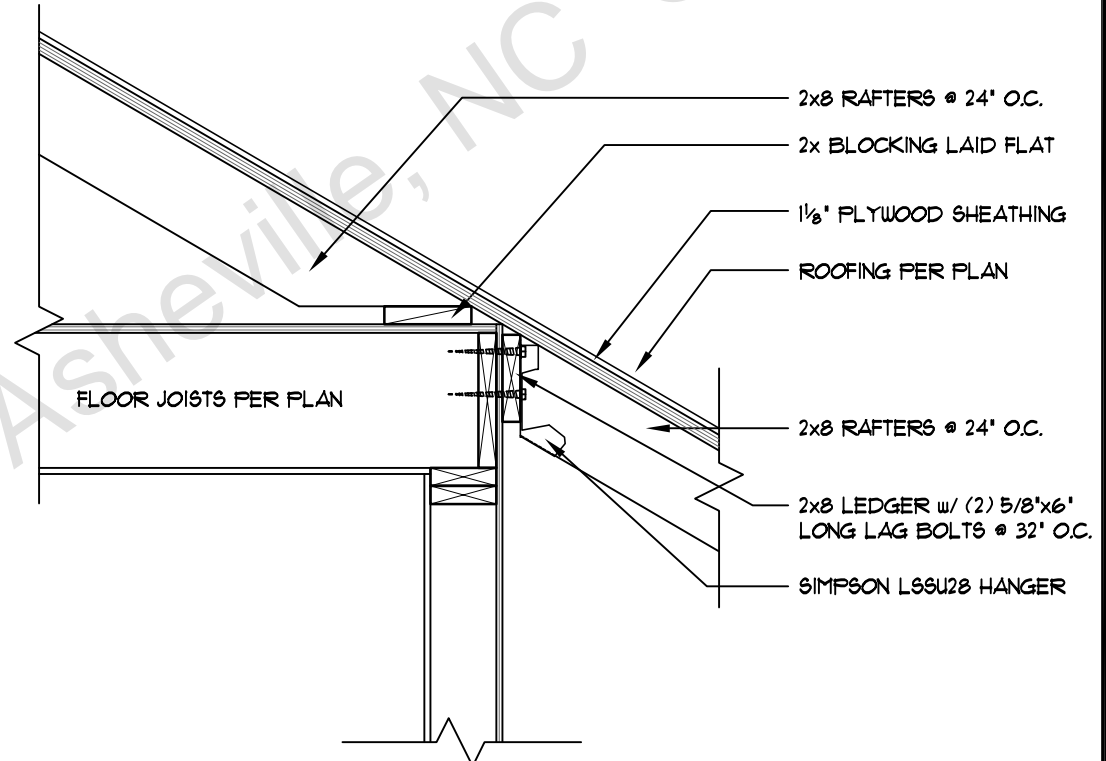
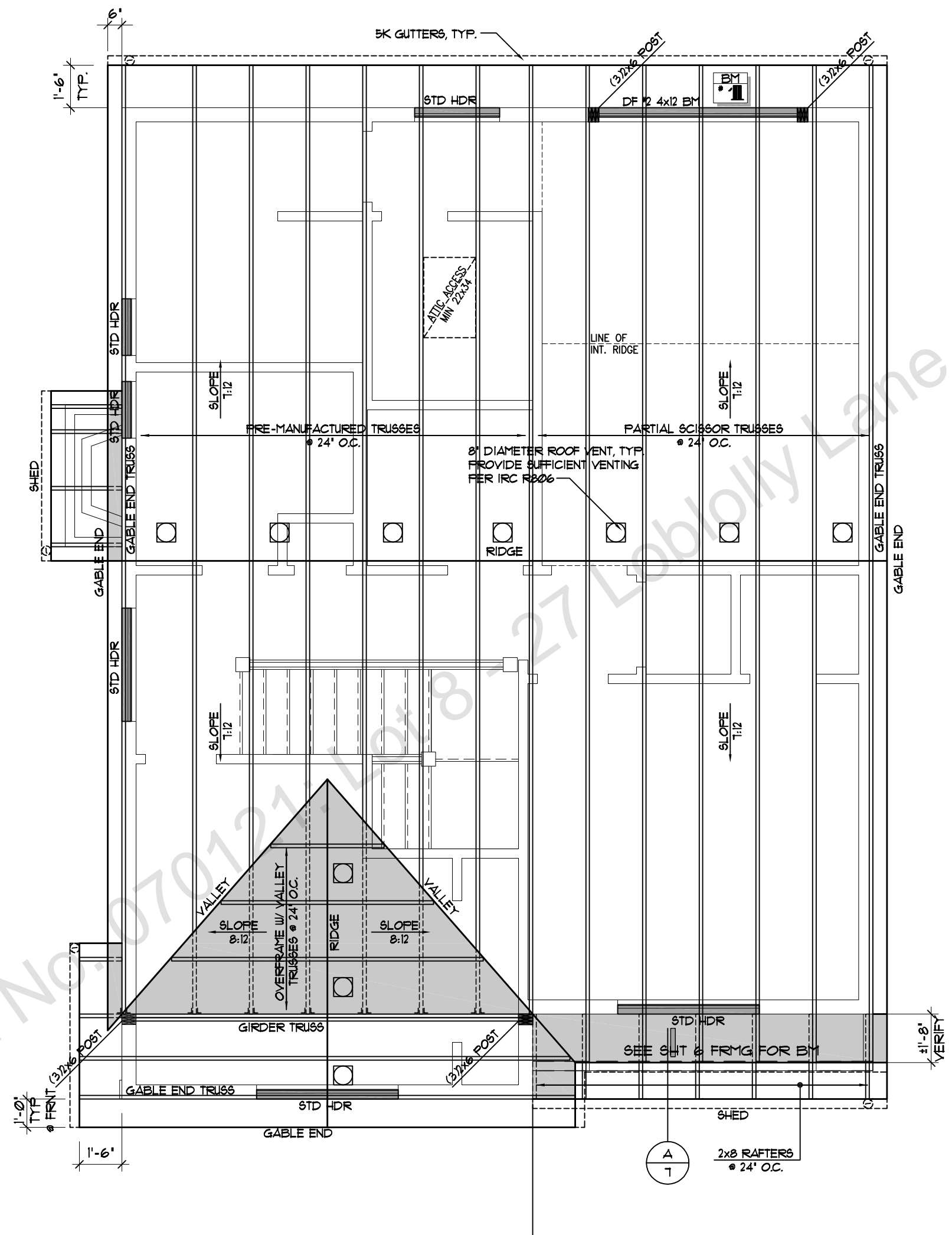


CARSON B

PLAN NUMBER 122308

1,464 TOTAL SQ. FT.

REVERSE
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A
7 **DETAIL (ROOF AT FLOOR)**
SCALE: 3/4\"=1'-0"

NOTE:
 ☉ DENOTES CONTINUOUS GUTTER DOWNSPOUT
 ----- DENOTES CONTINUOUS GUTTER
 PROVIDE SUFFICIENT ROOF VENTILATION PER IRC-R206

CONTRACTOR'S NOTE:
 SUBMIT TRUSS DESIGN FOR ENGINEERING PRIOR TO FABRICATION & VERIFY LOCATION OF GIRDER TRUSSES W/ TRUSS COMPANY PRIOR TO FORMING FOUNDATION WALLS AS TO PROVIDE FOR ADDITIONAL LOADING FROM VARYING TRUSS DESIGN. VERIFY ALL TRUSS SPANS & CONFIGURATIONS ON JOB SITE PRIOR TO FABRICATION.

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

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7

T.O. RIDGE
+ 21'-11"

T.O. DBL TO FLATE
+ 18'-2 1/4"

T.O. WINDOW R.O.
+ 16'-9 1/8"

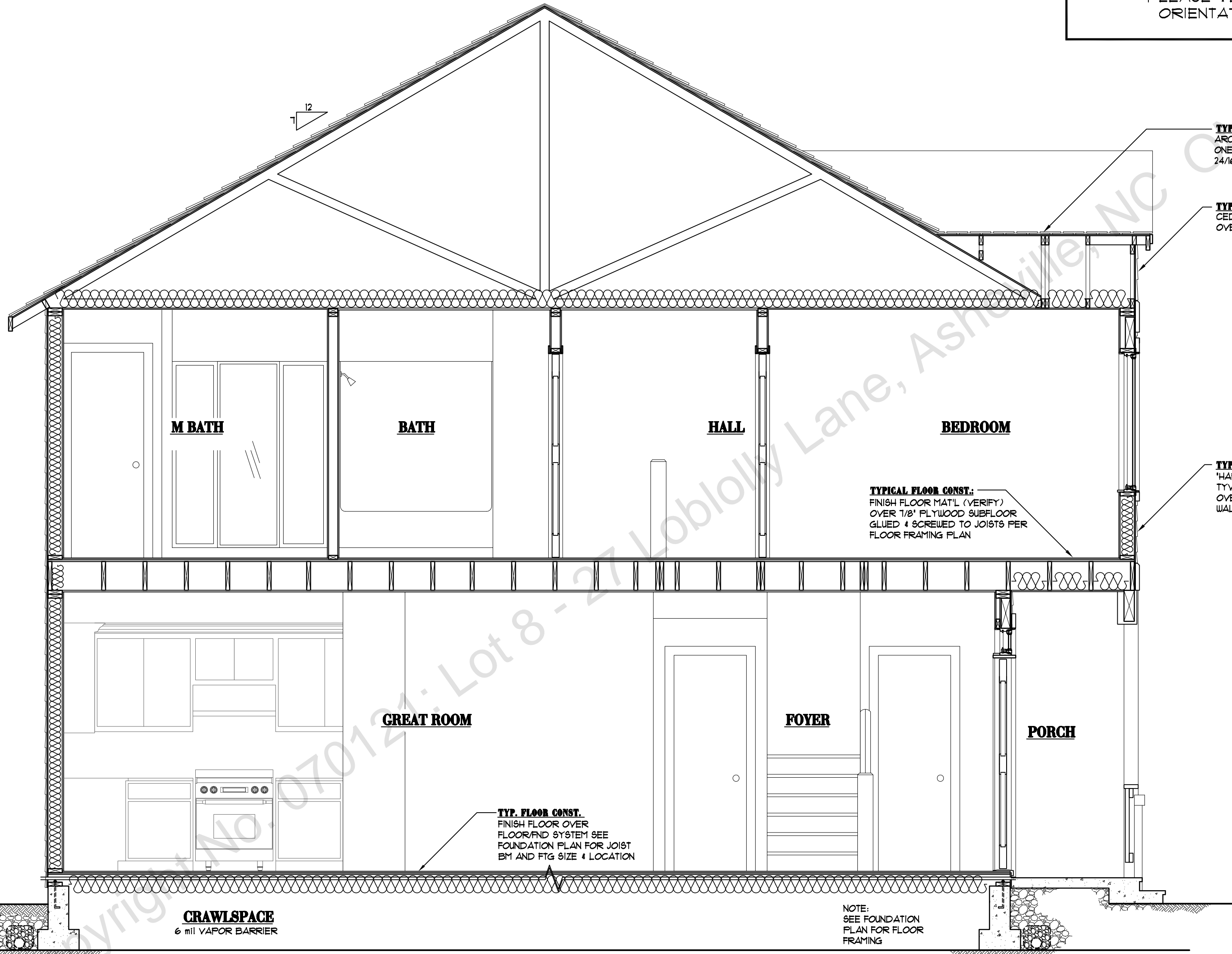
T.O. SUBFLOOR
+ 10'-1 1/8"

T.O. DBL TOP PLATE
+ 9'-1 1/8"

T.O. WINDOW R.O.
+ 7'-10 1/2"

T.O. SUBFLOOR
0'-0"

REVERSE
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PLEASE VERIFY
ORIENTATION



TYP. TRUSSED ROOF CONST:
ARCH COMPOSITION ROOFING OVER
ONE LAYER 15' ASF. BASE OVER
24/16' SHEATHING OVER TRUSSES

TYP. WALL CONST. (SHINGLES)
CEDAR SHINGLES W/ 8' EXPOSURE
OVER 1/16' OSB SHEATHING

TYP. WALL CONST. (LAP SIDING)
'HARDPLANK' LAP SIDING OVER
TYVEK OR EQUAL BLDG. WRAP
OVER 1/16' OSB SHTG. OVER 2x6
WALL W/ STUDS @ 16' O.C. INSUL.

TYPICAL FLOOR CONST:
FINISH FLOOR MATL. (VERIFY)
OVER 1/8' PLYWOOD SUBFLOOR
GLUED & SCREWED TO JOISTS PER
FLOOR FRAMING PLAN

TYP. FLOOR CONST.
FINISH FLOOR OVER
FLOOR/FND SYSTEM SEE
FOUNDATION PLAN FOR JOIST
BM AND FTG SIZE & LOCATION

NOTE:
SEE FOUNDATION
PLAN FOR FLOOR
FRAMING

CRAWLSPACE
6 mil VAPOR BARRIER

A SECTION
8 SCALE: 3/8"-1'-0"

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JOB
NAME: CARSON B.GR
DATE: 09/17/18

8

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TYP. TRUSSED ROOF CONST.:
ARCH COMPOSITION ROOFING OVER ONE LAYER 15" A.S.F. BASE OVER 24/16" SHEATHING OVER TRUSSES

T.O. DBL TO PLATE
• 10'-2 1/4"

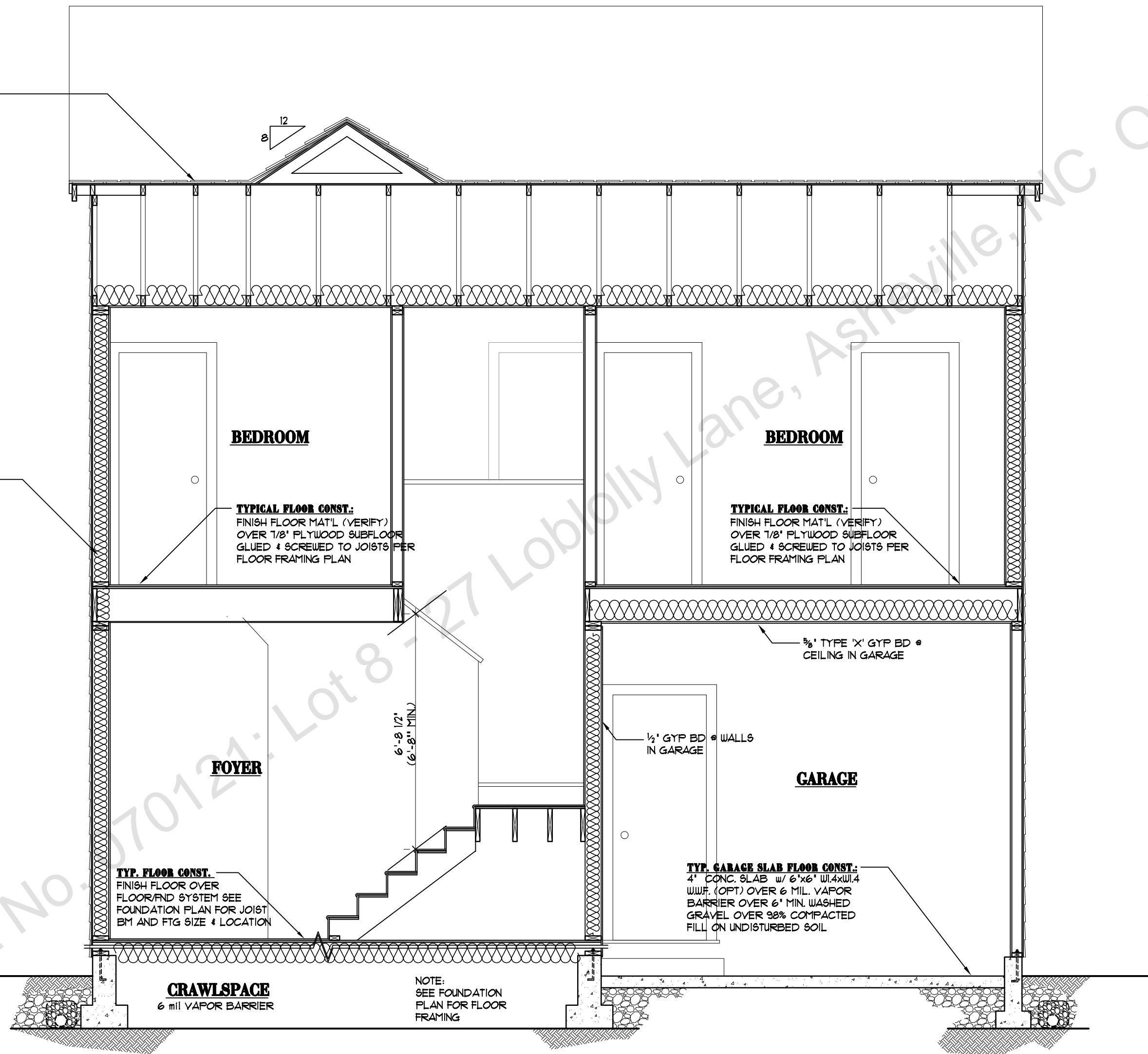
TYP. WALL CONST. (LAP SIDING)
"HARDIFLANK" LAP SIDING OVER TYVEK OR EQUAL BLDG. WRAP OVER 1/8" OSB SHTG. OVER 2x6 WALL w/ STUDS @ 16" O.C. INSUL.

T.O. SUBFLOOR
• 10'-1 1/8"

T.O. DBL TOP PLATE
• 9'-1 1/8"

T.O. SUBFLOOR
0'-0"

T.O. GARAGE SLAB
VERIFY



A SECTION
9 SCALE: 3/8"-1'-0"

CARSON B

1,464 TOTAL SQ. FT.

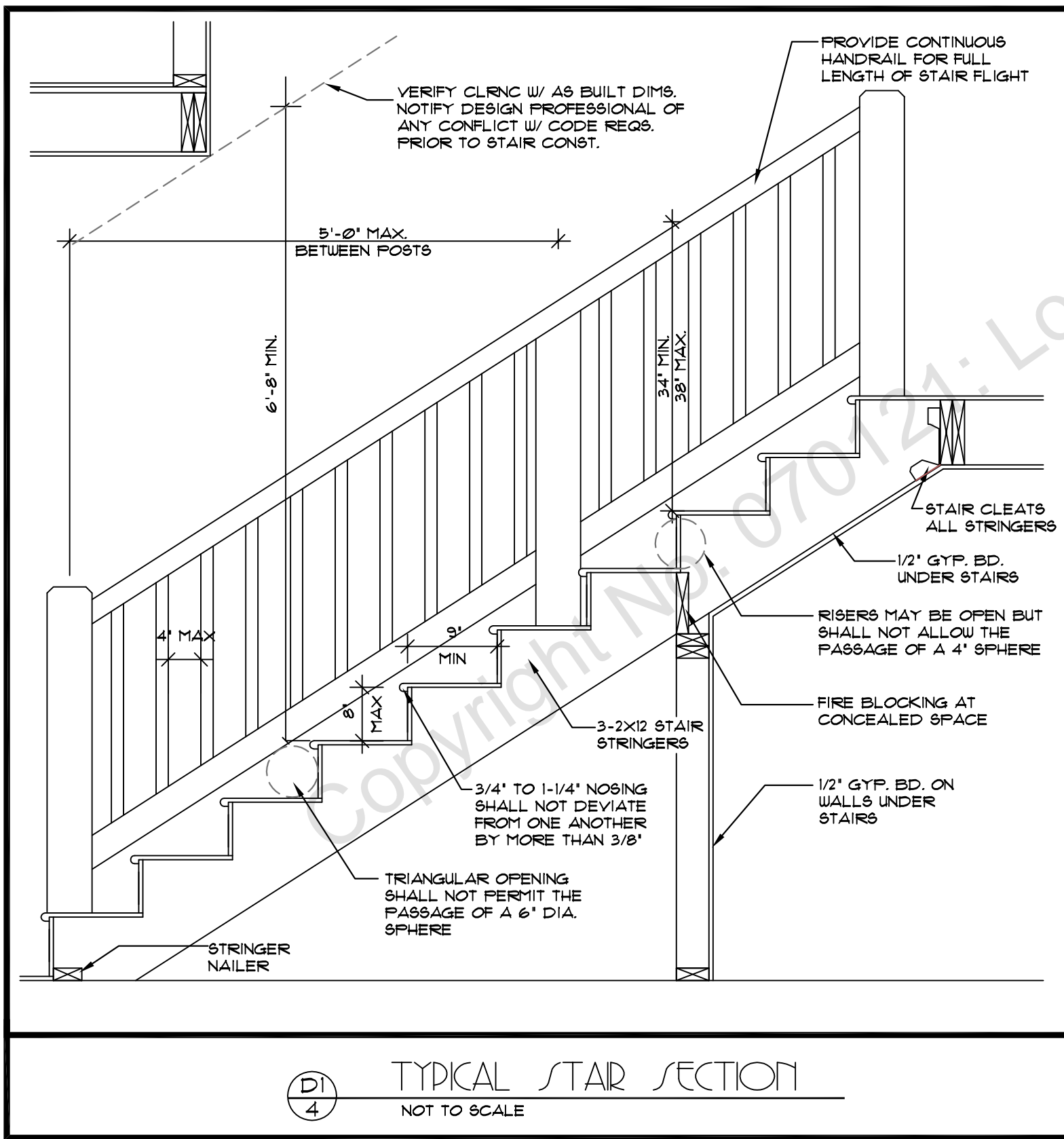
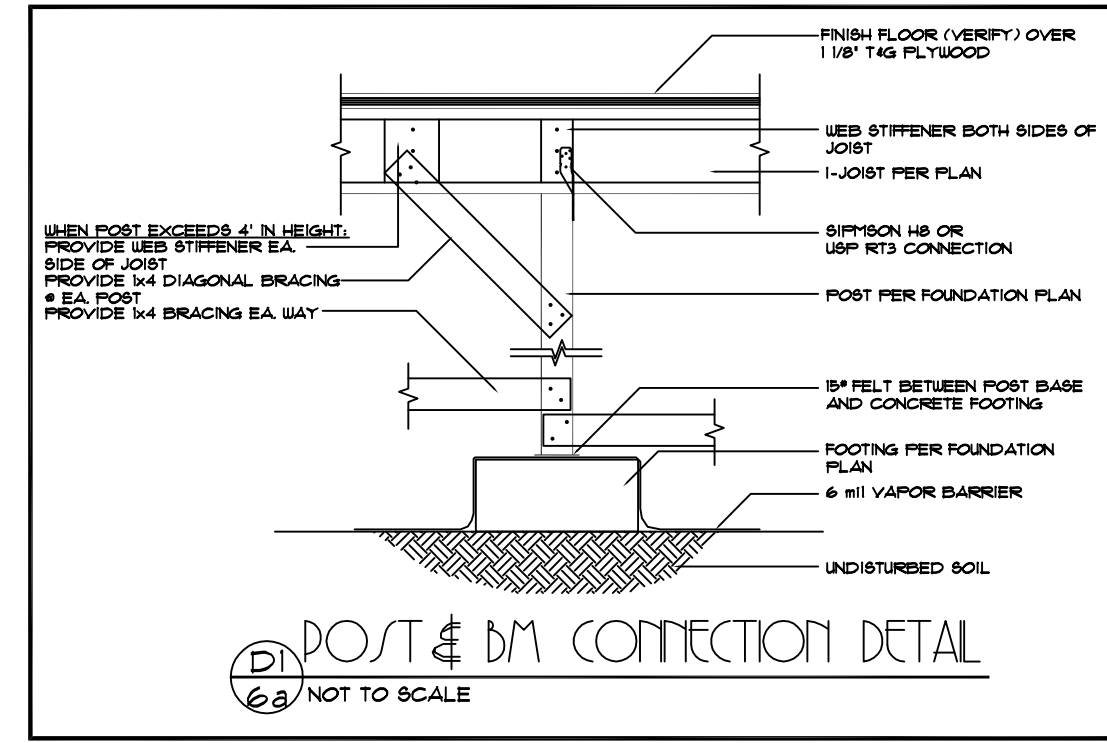
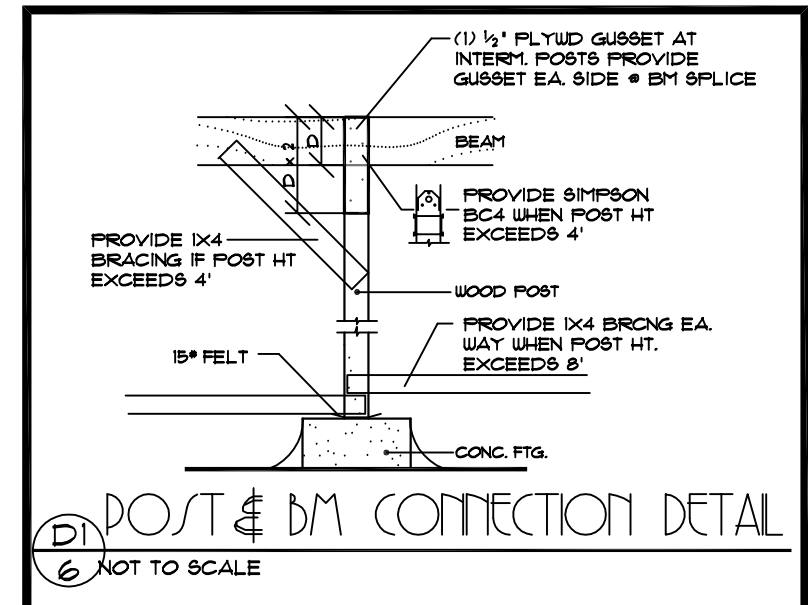
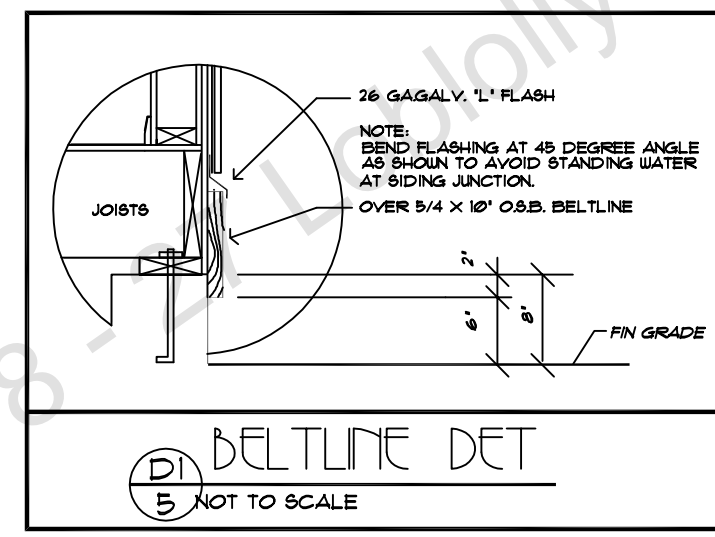
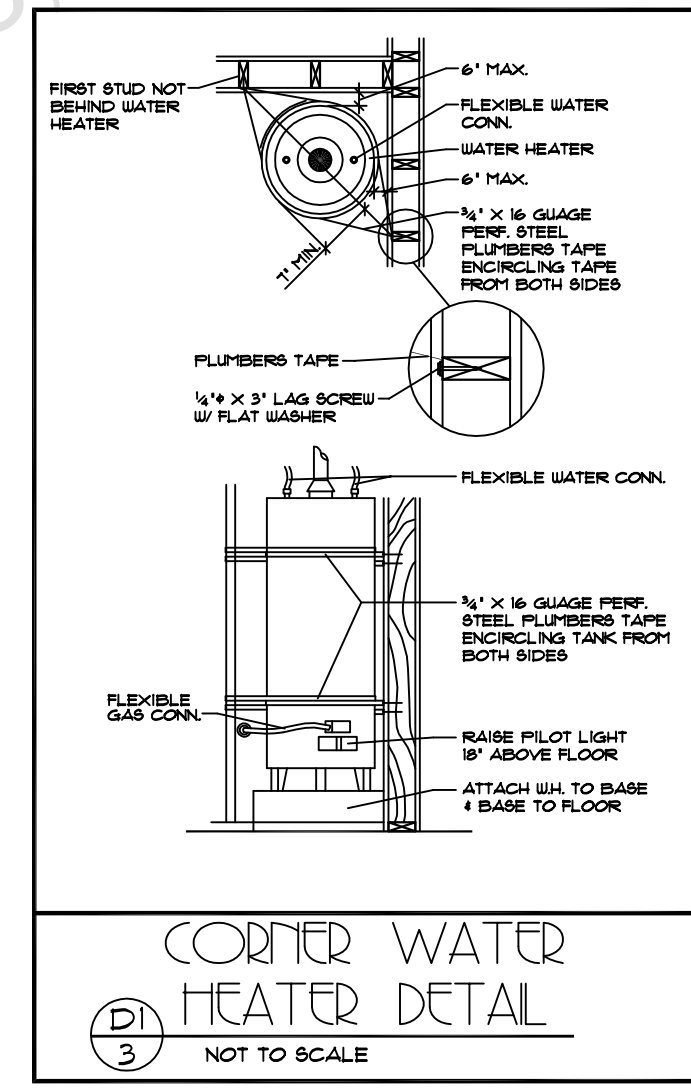
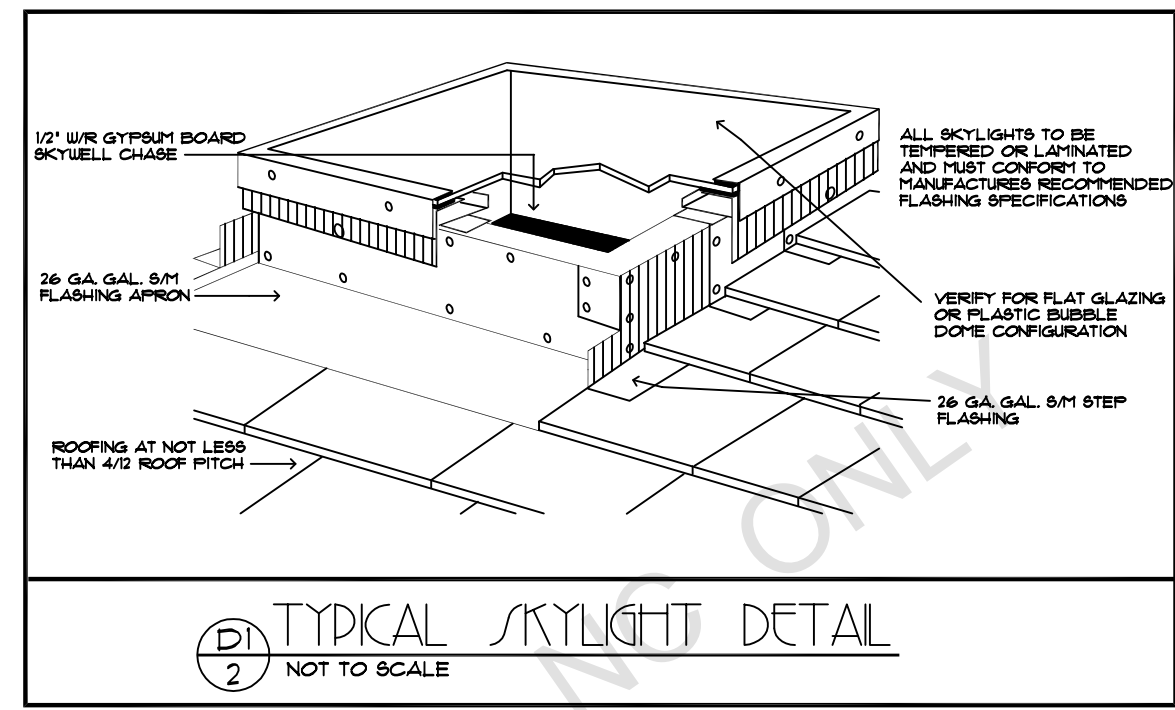
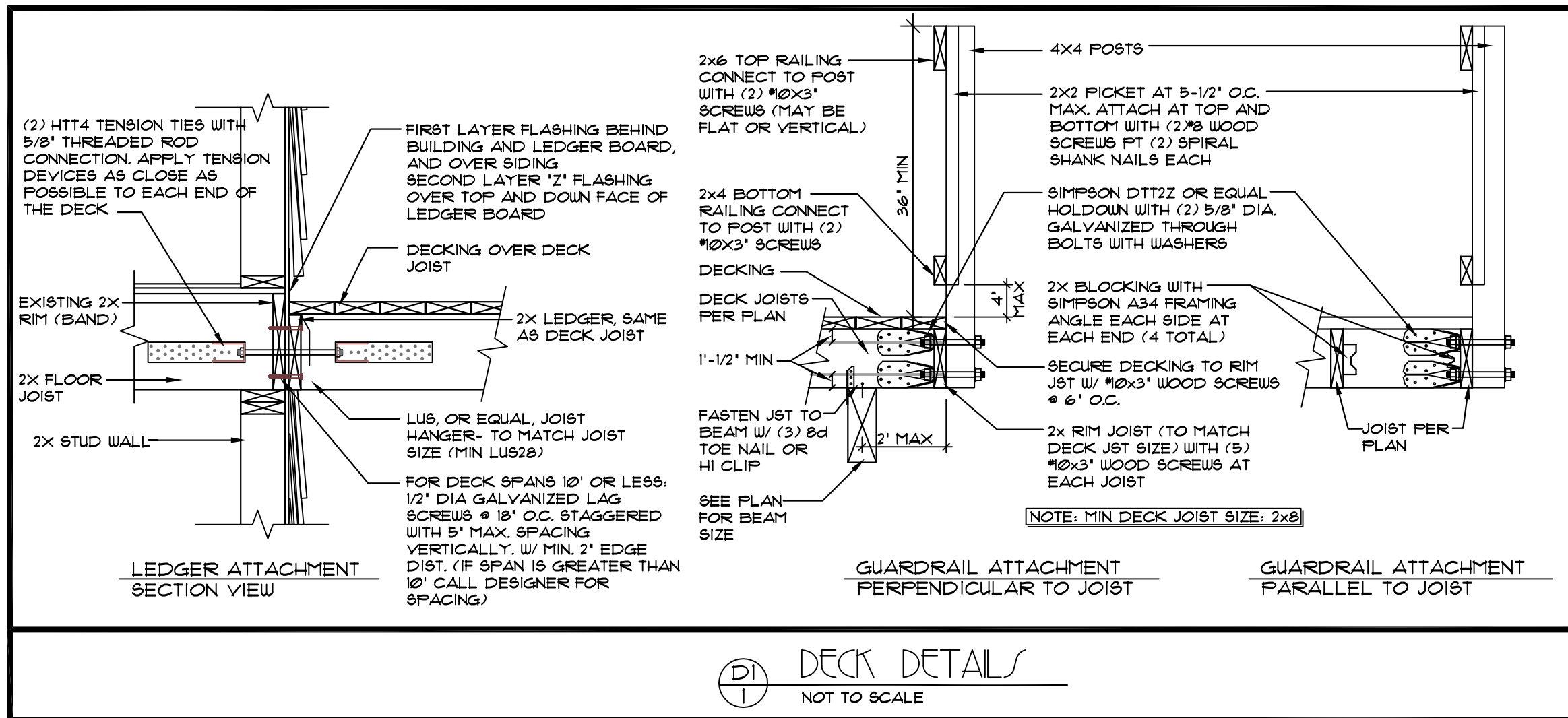
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DATE: 09/17/18

9



DETAILS SHEET

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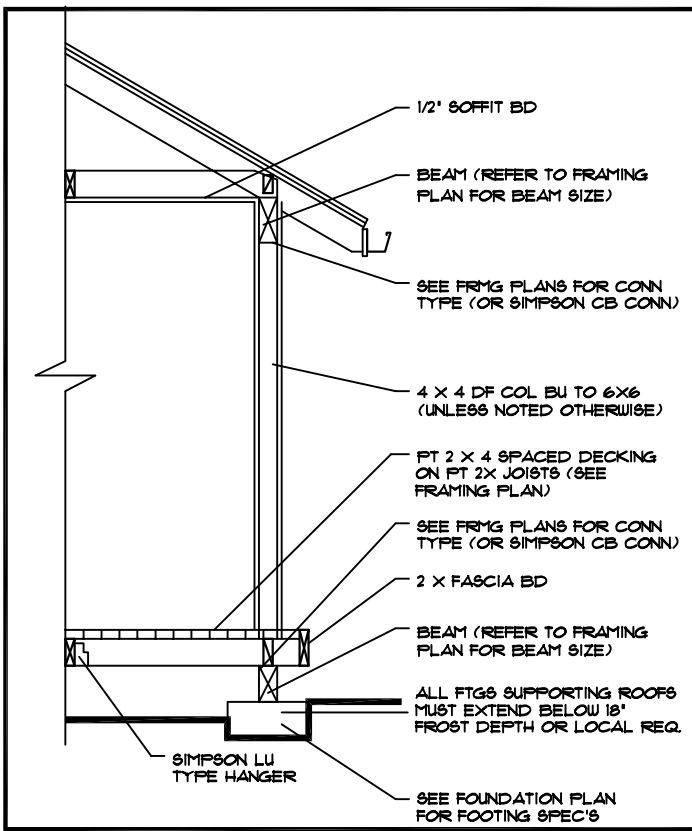
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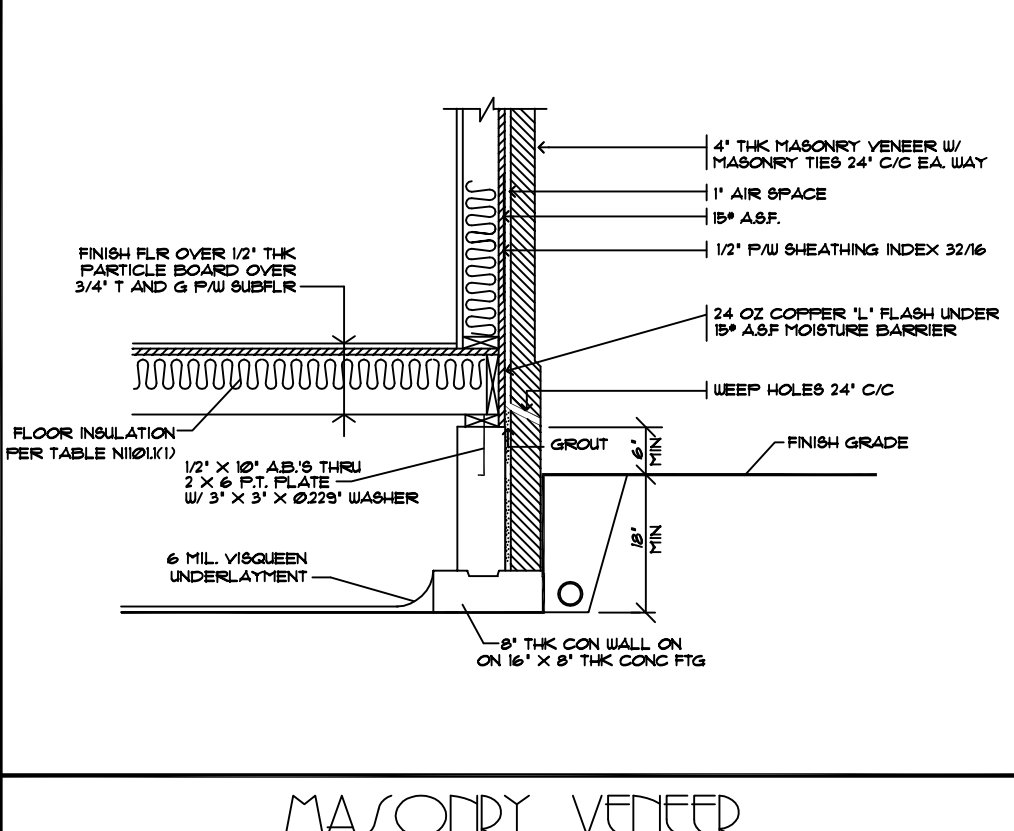
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DATE: _07/08_

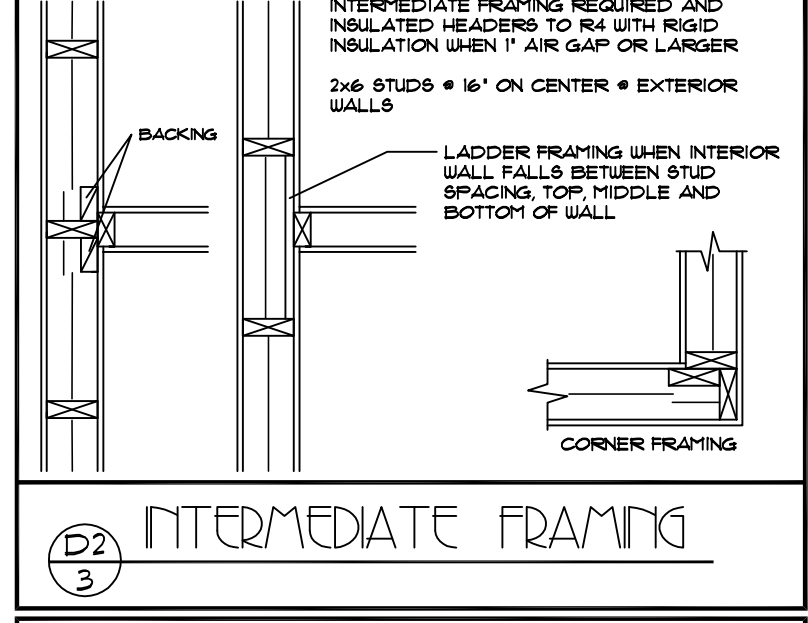
D1



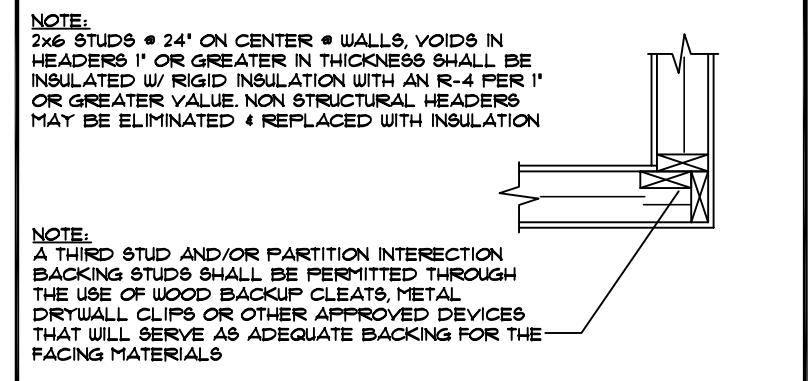
D2 1 PORCH DETAIL



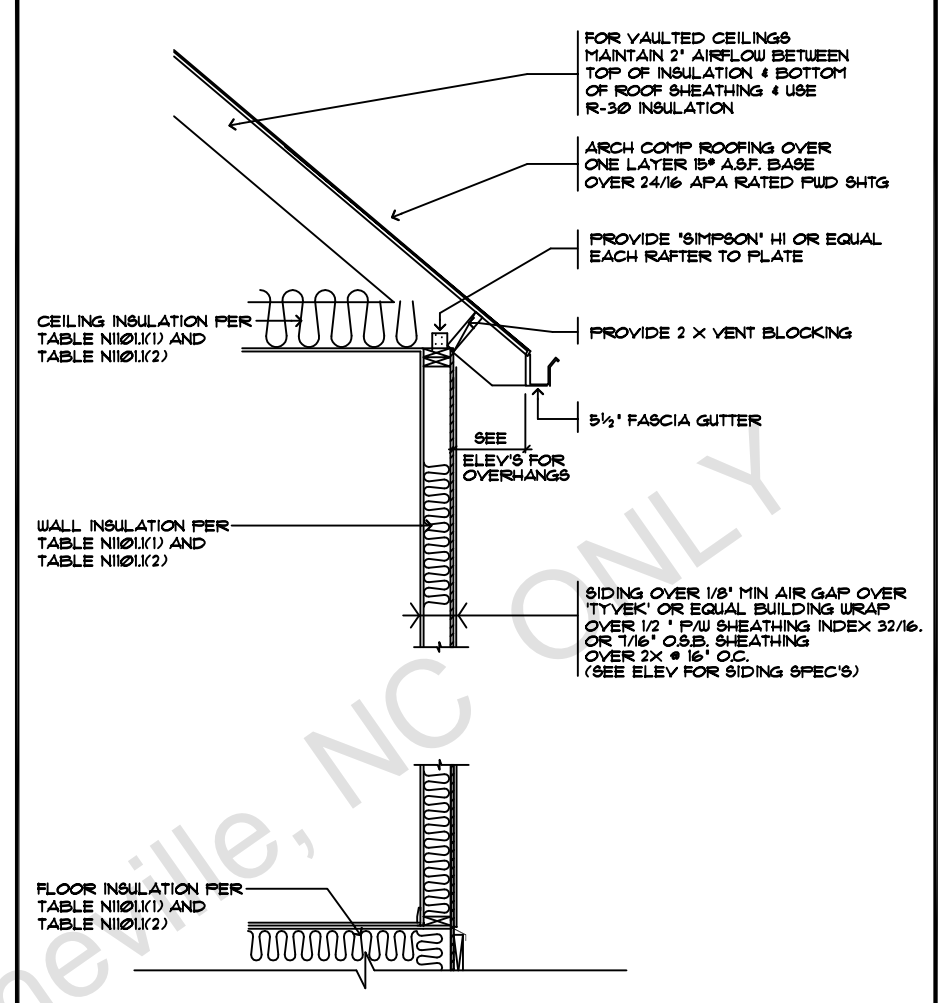
D2 2 MASONRY VENEER WALL DETAIL



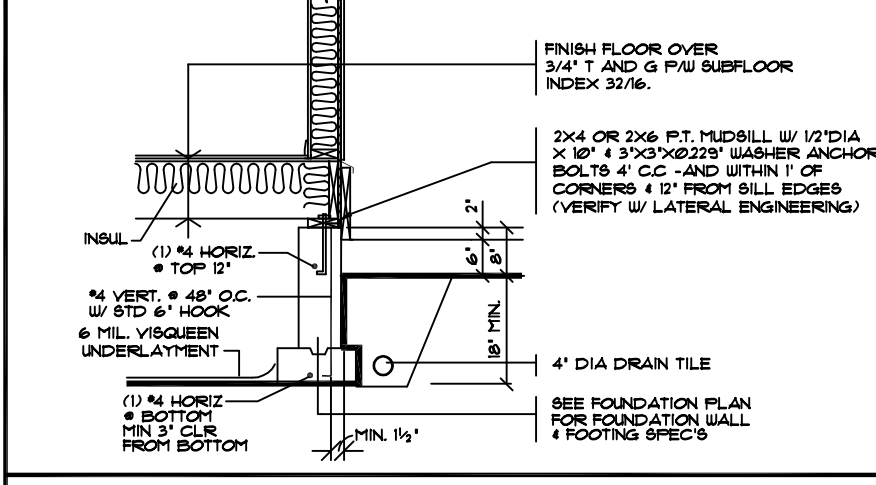
D2 3 INTERMEDIATE FRAMING



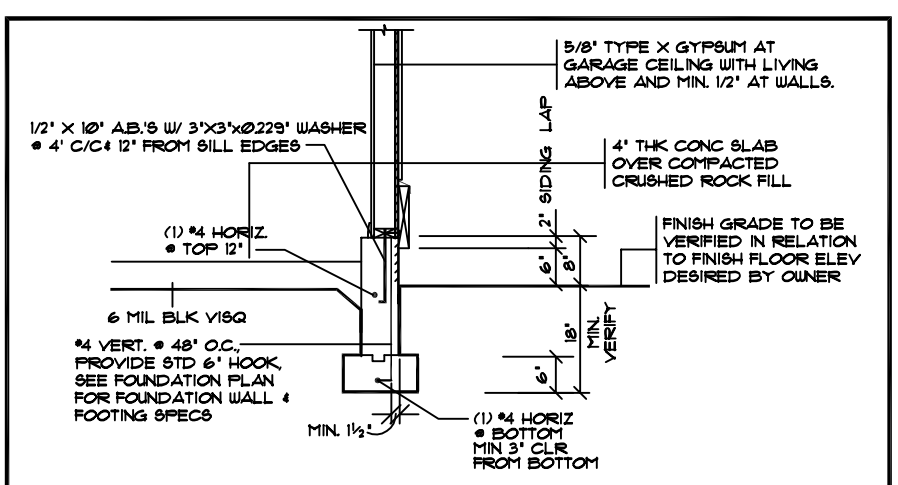
D2 3a CORNER PARTITION FRMG ADVANCED FRAMING



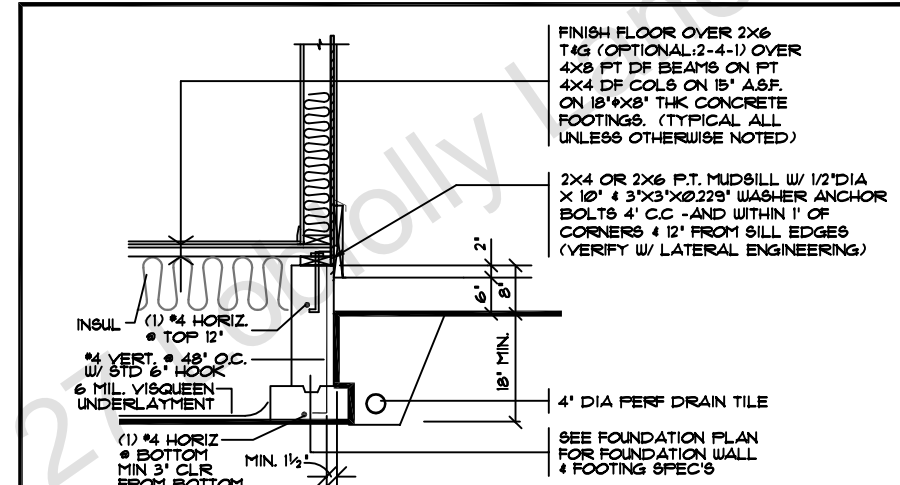
D2 4 TYPICAL WALL DETAIL NOT TO SCALE



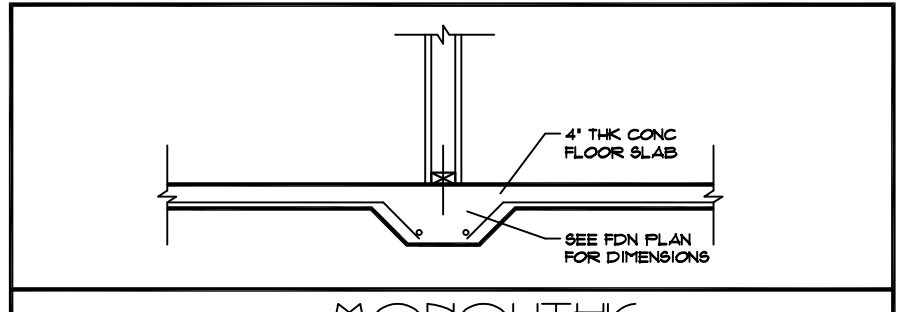
D2 5 JOISTED FOOTING DETAIL



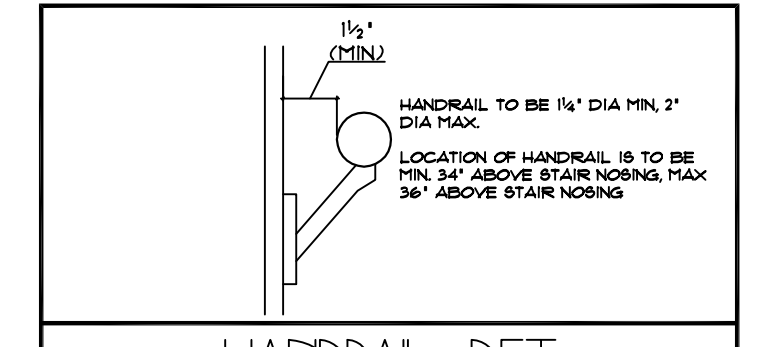
D2 6 WALL SLAB DETAIL



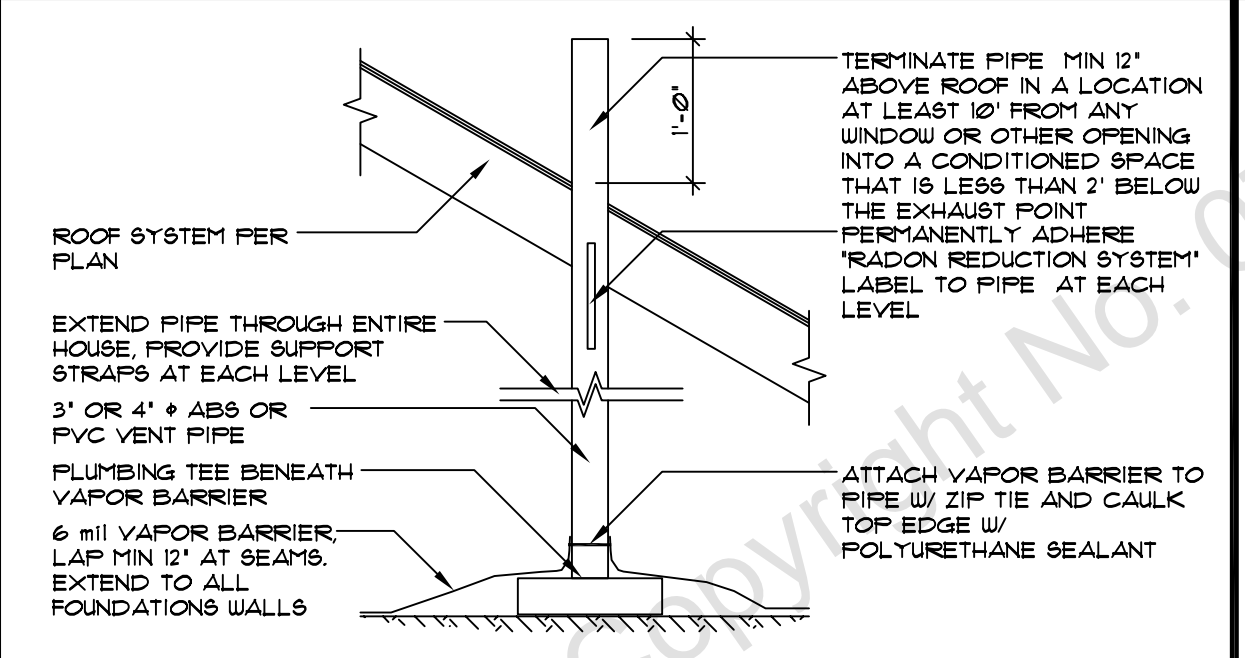
D2 7 POST & BEAM FOOTING DETAIL



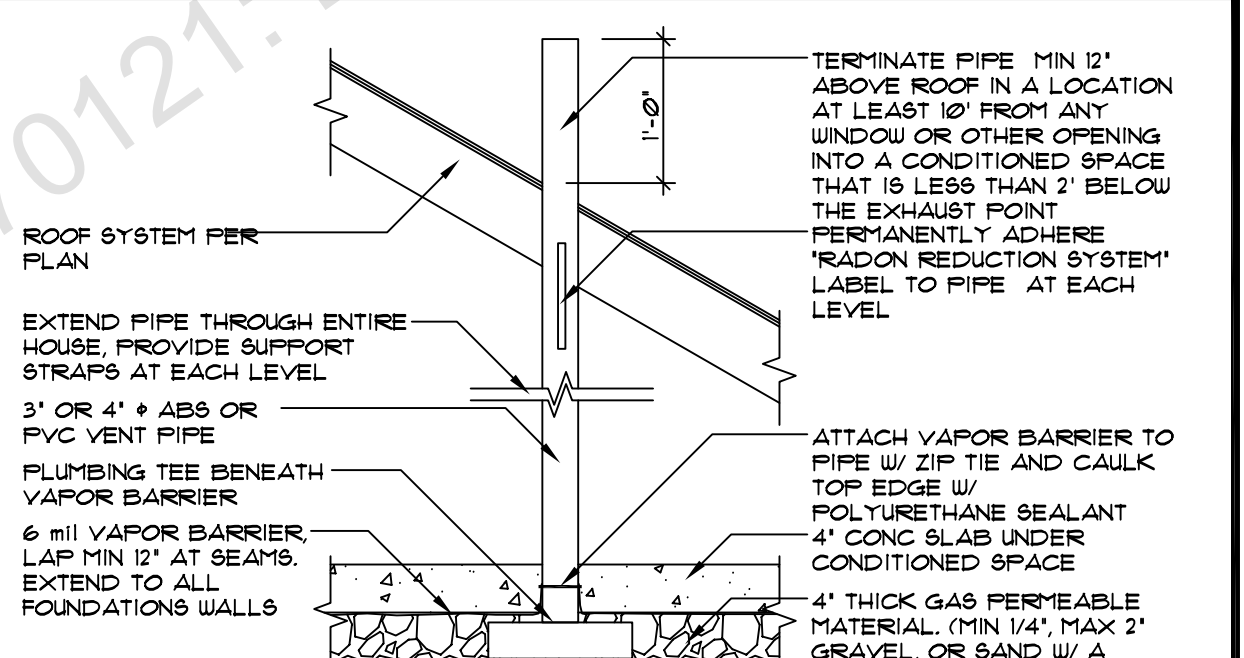
D2 8 MONOLITHIC FOOTING DETAIL



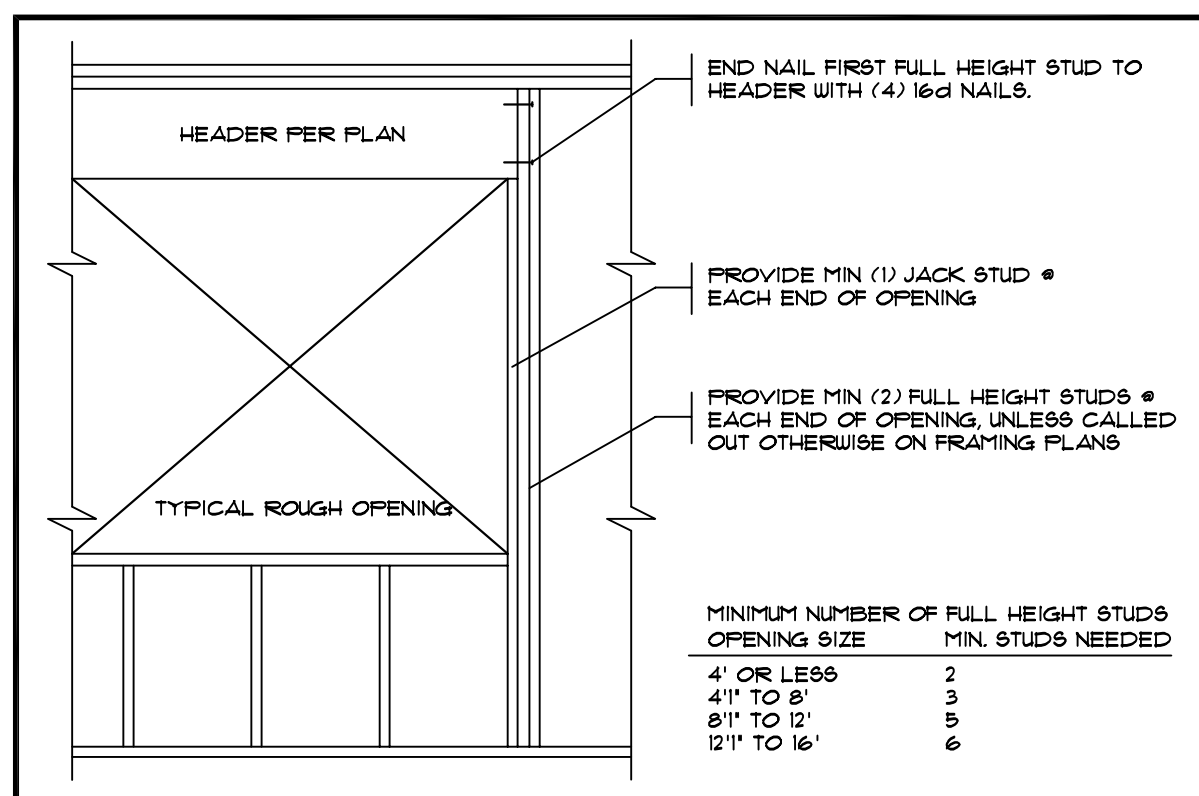
D2 11 HANDRAIL DET NOT TO SCALE



D2 9 RADON MITIGATION CRAWL SPACE FOUNDATION



D2 10 RADON MITIGATION SLAB ON GRADE FOUNDATION



D2 12 TYPICAL HEADER DETAIL NOT TO SCALE R602.15

MINIMUM NUMBER OF FULL HEIGHT STUDS	OPENING SIZE	MIN. STUDS NEEDED
2	4' OR LESS	2
3	4'1" TO 8'	3
5	8'1" TO 12'	5
6	12'1" TO 16'	6

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SHEET: DETAILS
 DATE: 12/2019

D2



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SHEET: NOTES
DATE: 9/2019

N1

TABLE N1101.1(1) PERSCRIPTIVE ENVELOPE REQUIREMENTS	
BUILDING COMPONENT	MIN. REQUIRED VALUE
WALL INSULATION- ABOVE GRADE	R-21 INTERMEDIATE c
WALL INSULATION- BELOW GRADE	R-15/R21
FLAT CEILING	R-49
VAULTED CEILING	R-30 RAFTER OR R-30A gh SCI850R TRUSS
UNDERFLOORS	R-30
SLAB EDGE PERIMETER	R-15
HEATED SLAB INTERIOR	R-10
WINDOW	U-0.30
SKYLIGHT	U-0.50
EXTERIOR DOORS	U-0.20
EXTERIOR DR	W/ 25 SQ. FT. GLAZING U-0.40
FORCED AIR DUCT INSULATION	R-8

a. As allowed in Section N1101.4, thermal performance of a component may be adjusted provided that overall heat loss does not exceed the total resulting from conformance to the required U-value standards. Calculations to document equivalent heat loss shall be performed using the procedure and approved U-values contained in Table N1101.1(1).

b. R-values used in this table are nominal, for the insulation only in standard wood framed construction and not for the entire assembly.

c. Wall insulation requirements apply to all exterior wood framed, concrete or masonry walls that are above grade. This includes cripple walls and rim joist areas. Nominal compliance with R-21 insulation and intermediate framing (N1104.5.2) with insulated heaters.

e. Below-grade wood, concrete or masonry walls include all walls that are below grade and do not include those portions of such walls that extend more than 24 inches above grade. R-21 for insulation in framed cavity; R-15 continuous insulation.

f. Insulation levels for ceilings that have limited attic/rafter depth such as dormers, bay windows or similar features totaling not more than 150 square feet in area may be reduced to not less than R-21; when reduced, the cavity shall be filled (except for required vent spaces) R-49 insulation installed to minimum 6-inch depth at top plate exterior of structure to achieve U-factor.

g. Vaulted ceiling surface area exceeding 50 percent of the total heated space floor area shall have a U-factor no greater than U-0.216 (equivalent to R-38 rafter or scissor truss with R-38 advanced framing).

h. A = Advanced frame construction. See section N1104.6

i. Heated slab interior applies to concrete slab floors (both on and below grade) that incorporate a radiant heating system within the slab. Insulation shall be installed underneath the entire slab.

j. Sliding glass doors shall comply with window performance requirements.

k. Reduced area may not be used as a trade off criterion for thermal performance of any component.

l. Skylight area installed at 2 percent or less of total heated floor area shall be deemed to satisfy this requirement with vinyl, wood or thermally broken aluminum frames and double-pane glazing with low-emissivity coatings. Skylight U-factor is tested in the 20 degree overhead plane in accordance with NFRC standards.

m. A maximum of 28 square feet of exterior door area per dwelling unit can have a U-factor of .54 or less.

n. Glazing that is either double pane with low-e coating on one surface, or triple pane shall be deemed to comply with this U-30 requirement.

GENERAL NOTES

- ALL WORK IS TO COMPLY WITH THE LATEST ADOPTED VERSION OF THE ORSC CODE AND ANY APPLICABLE STATE, COUNTY OR LOCAL REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE TO CHECK THE PLANS AND IS TO NOTIFY THE DESIGNER OF ANY ERRORS OR OMISSIONS PRIOR TO THE START OF CONSTRUCTION.
- WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS.
- DESIGN LOADS: ROOF 30 PSF (LIVE LOAD)
FLOOR 40 PSF (LIVE LOAD)
STAIRS 100 PSF
GARAGE FLOOR 125 PSF (2000# FT)
DECKS 15 PSF
(IF YOUR LOCAL AREA REQUIRES DIFFERENT DESIGN LOADS, CONSULT WITH A LOCAL STRUCTURAL ENGINEER TO DETERMINE THE APPROPRIATE REVISIONS.)
- PROVIDE INSULATION BAFFLES AT EAVE VENTS BETWEEN RAFTERS.
- ALL SMOKE DETECTORS SHALL BE POWERED BY 110V CURRENT, CONNECTED TO HOUSE ELECTRICAL SYSTEM. INTERCONNECT WITH EACH ONE SO THAT IF ANY ONE TRIPS THEY WILL ALL SOUND. THEY SHALL ALSO HAVE A BATTERY BACKUP AND BE LOCATED IN EACH BEDROOM AND ON EACH FLOOR LEVEL.
- GUARDRAILS SHALL HAVE INTERMEDIATE RAILS SPACED SUCH THAT A SPHERE 4" IN DIA. CANNOT PASS THROUGH.
- PROVIDE GROUNDING ELECTRODE AT ELECTRICAL SERVICE CONSISTING OF A MINIMUM 20' LENGTH OF 1/2" STEEL REINFORCEMENT OF FOOTINGS. ELECTRODE SHALL EXTEND 12" MIN. ABOVE THE PLATE LINE.
- THE MAXIMUM AMOUNT OF WATER USED BY NEW PLUMBING FIXTURES: (EPA WATER SENSE LABELED)
TOILETS 128 GALLONS/FLUSH
SHOWER HEADS 2.0 GALLONS/MINUTE
INTERIOR FAUCETS 2.5 GALLONS/MINUTE
- IN THE EVENT OF CONFLICT BETWEEN PERTINENT CODES AND REGULATIONS AND REFERENCED STANDARDS OF THESE SPECIFICATIONS, THE MORE STRINGENT PROVISIONS SHALL GOVERN.
- STRUCTURAL SPECIFICATIONS AND DRAWINGS FOR THIS WORK HAVE BEEN PREPARED IN ACCORDANCE WITH GENERALLY ACCEPTED LATERAL DESIGN PRACTICE TO MEET MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE ORSC.
- SPECIFICATIONS AND DRAWINGS INDICATE FINISHED STRUCTURE. BUILDER SHALL BE RESPONSIBLE FOR CONSTRUCTION METHODS, PROCEDURES, AND CONDITIONS (INCLUDING SAFETY), EXCEPT AS SPECIFICALLY INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS.
- CONSTRUCTION LOADS SHALL NOT OVERLOAD STRUCTURE NOR SHALL THEY BE IN EXCESS OF DESIGN LOADINGS INDICATED ON DRAWINGS.
- BUILDER SHALL VERIFY ALL MATERIALS, DIMENSIONS, AND CONDITIONS SHOWN ON STRUCTURAL DRAWINGS OR NOTED IN STRUCTURAL SPECIFICATIONS. ANY VARIANCES WITHIN STRUCTURAL DRAWINGS AND SPECIFICATIONS, OR WITHIN CONDITIONS ENCOUNTERED AT JOB SITE, SHALL BE REPORTED TO OWNER IN WRITING BEFORE COMMENCEMENT OF ANY WORK EFFECTED BY SUCH VARIANCE.
- BUILDER SHALL RIGIDLY ADHERE TO ALL LAWS, CODES, AND ORDINANCES WHICH APPLY TO THIS WORK. HE SHALL NOTIFY AND RECEIVE CLARIFICATION FROM OWNER IN WRITING OF ANY VARIATIONS BETWEEN CONTRACT DOCUMENTS AND GOVERNING REGULATIONS.
- ALL MANUFACTURED MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES, ETC. SHALL BE HANDLED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND PROVISIONS OF APPLICABLE ICBO RESEARCH RECOMMENDATIONS. WHERE SPECIFIC MANUFACTURED PRODUCTS ARE CALLED FOR, GENERIC EQUALS WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS MAY BE USED.
- NO VARIANCE BY A BUILDING OFFICIAL SHALL BE BINDING ON DESIGNERS.
- BUILDER SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESS POOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH ITEMS ARE FOUND, OWNER SHALL BE NOTIFIED IMMEDIATELY.
- CARBON MONOXIDE DETECTORS SHALL BE PROVIDED IN ANY HOME WITH A GAS APPLIANCE. ONE SHALL BE LOCATED WITHIN EACH BEDROOM OR WITHIN 15' OR OF EACH BEDROOM DOOR. BEDROOMS ON SEPARATE FLOORS REQUIRE SEPARATE DETECTORS.
- DISCHARGE COOKTOP RANGE VENT DUCTED TO OUTSIDE AIR WITH MIN 150 CFM INTERMITTENT RATED FAN.

INSULATION SPECIFICATIONS

- ALL EXPOSED INSULATION IS TO HAVE A FLAME SPREAD RATING OF LESS THAN 25 & A SMOKE DENSITY RATING OF LESS THAN 450.
- PERIMETER CONC. WALLS TO BE PROTECTED W/ RIGID FIBERBOARD INSULATION FROM TOP OF CONC WALL TO NOT LESS THAN 24" BELOW GRADE.
- SLAB EDGE INSULATION IS TO BE R-15.
- HEATING DUCTS TO BE INSULATED W/ R-8
- WINDOWS SHALL MEET REQUIRED U FACTORS FOR THE CONTRACTORS CHOSEN PATH OF COMPLIANCE SEE TABLE N1104.1(1)
- ONE EXTERIOR DOOR MAY BE INSULATED TO A U-FACTOR OF 0.20. ALL OTHER EXTERIOR DOORS MAY NOT EXCEED 0.54.

FRAMING NOTES

- ALL EXTERIOR WALL AND BEARING WALL OPENINGS TO HAVE 4X12 HEADERS UNLESS OTHERWISE INDICATED
- JOISTS THAT ARE ATTACHED TO FLUSH BEAMS ARE TO BE HUNG WITH 'SIMPSON' LU TYPE OR EQUIV.
- DOUBLE JOISTS THAT ARE ATTACHED TO FLUSH BMS ARE TO BE HUNG WITH 'SIMPSON' LU8 TYPE OR EQUIV. PARTITIONS OVER.
- PROVIDE FIREBLOCKING, DRAFTSTOPS & FIRESTOPS AS PER THE ORSC SEC R602.8
- LUMBER SPECIES:
A. POSTS, BEAMS, HEADERS NO2 DOUG FIR
JOISTS AND RAFTERS
B. SILL, PLATES, BLOCKING NO3 DOUG FIR
BRIDGING, ETC.
C. STUDS STUD GRADE D.F.
D. POST AND BEAM DECKING UTILITY GRADE D.F.
E. PLYWOOD SHEATHING 1/2" CDX PLY, 32/16
F. GLU-LAM BEAMS 15-2400, DRY ADH.
- NAILING SCHEDULE
SEE TABLE 0203(1)
- NOTCHES IN SOLID LUMBER JOISTS, RAFTERS, AND BEAMS SHALL NOT EXCEED ONE-SIXTH OF THE DEPTH OF THE MEMBER, SHALL NOT BE LONGER THAN ONE-THIRD OF THE DEPTH OF THE MEMBER AND SHALL NOT BE LOCATED IN THE MIDDLE ONE-THIRD OF THE SPAN. NOTCHES AT THE ENDS OF THE MEMBER SHALL NOT EXCEED ONE-FOURTH THE DEPTH OF THE MEMBER. THE TENSION SIDE OF MEMBERS 4" (102mm) OR GREATER IN NOMINAL THICKNESS SHALL NOT BE NOTCHED EXCEPT AT ENDS OF THE MEMBERS. THE DIAMETER OF HOLES BORED OR CUT INTO MEMBERS SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE MEMBER. HOLES SHALL NOT BE CLOSER THAN 2" TO THE TOP OR BOTTOM OF THE MEMBER, OR TO ANY OTHER HOLE LOCATED IN THE MEMBER. WHERE THE MEMBER IS ALSO NOTCHED, THE HOLE SHALL NOT BE CLOSER THAN 2" (51mm) TO THE NOTCH.
- STUDS IN AN EXTERIOR WALL OR LOAD-BEARING PARTITIONS SHALL BE PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25% OF ITS WIDTH. STUDS IN NON-LOAD-BEARING PARTITIONS SHALL BE PERMITTED TO BE NOTCHED TO A DEPTH NOT TO EXCEED 40% OF A SINGLE STUD WIDTH. STUDS SHALL BE PERMITTED TO BE BORED OR DRILLED, PROVIDED THAT THE DIAMETER OF THE RESULTING HOLE IS NO GREATER THAN 40% OF THE STUD WIDTH, THE EDGE OF THE HOLE IS NO CLOSER THAN 5/8" (15.9mm) TO THE EDGE OF THE STUD, AND THE HOLE IS NOT LOCATED IN THE SAME SECTION AS A CUT OR NOTCH.
- INSTALL ALL HORIZONTAL MEMBERS WITH CROWN UP.
- ALL MEMBERS IN BEARING SHALL BE ACCURATELY CUT AND ALIGNED SO THAT FULL BEARING IS PROVIDED WITHOUT USE OF SHIMS. BEARING POSTS SHALL HAVE FULL BLOCKING OR SUPPORT UNDER.
- ALL JOISTS SHALL HAVE A MINIMUM OF 2" BEARING AT SUPPORTS. LAPPING JOISTS SHALL HAVE 6" LAPS CENTERED OVER INTERIOR SUPPORTS.
- LEDGERS AND STUD WALL FOUNDATION SILL PLATES SHALL BE BOLTED TO CONCRETE W/ ANCHOR BOLTS OF SIZE AND MINIMUM SPACING AS SHOWN ON DRAWINGS. AT LEAST TWO BOLTS SHALL BE PROVIDED FOR EACH PIECE W/ ONE BOLT WITHIN 12" OF EACH END.
- ALL PLYWOOD WALL SHEATHING SHALL BE APPLIED AS FOLLOWS: CENTER VERTICAL JOINTS OVER STUDS AND CENTER HORIZONTAL JOINT OVER 2" BLOCKING OR PLATE. NAIL TOP OF PANELS TO DOUBLE TOP PLATE, AND NAIL BOTTOM OF PANELS TO ANCHORED SILL PLATE. APPLY GYPSUM BOARD SO THAT END JOINTS OF ADJACENT COURSE DO NOT OCCUR AT THE SAME STUD.

FLOOR PLAN NOTES

- EACH BEDROOM TO HAVE A MINIMUM WINDOW OPENING OF 5.1 SQ FT WITH A MIN. WIDTH OF 20" AND A MIN. HEIGHT OF 22" AND A SILL LESS THAN 44" OFF THE FLOOR.
- ALL WINDOWS WITHIN 18" OF THE FLOOR AND WITHIN 24" OF ANY DOOR ARE TO HAVE TEMPERED GLAZING. SEE SECTION R308.4 IN ORSC FOR ADDITIONAL INFO.
- SKYLITES ARE TO BE GLAZED WITH TEMPERED GLASS ON OUTSIDE AND LAMINATED GLASS ON INSIDE (UNLESS FLEXIGLASS); GLASS TO HAVE MAXIMUM CLEAR SPAN OF 25'. SKYLITE FRAME IS TO BE ATTACHED TO A 2 X CURB WITH MINIMUM OF 4" ABOVE ROOF PLANE.
- ALL TUB OR SHOWER ENCLOSURES ARE TO BE GLAZED WITH SAFETY GLAZING.
- ALL EXTERIOR WINDOWS ARE TO BE DOUBLE GLAZED AND ALL EXTERIOR DOORS ARE TO BE SOLID CORE WITH WEATHERSTRIPPING. PROVIDE 1/2" DEADBOLT LOCKS ON ALL EXTERIOR DOORS AND LOCKING DEVICES ON ALL DOORS OR WINDOWS WITHIN 18" (VERTICAL) OF GRADE. PROVIDE FEEP-HOLE # 34" - 66" ABOVE FLOOR ON EXTERIOR DOORS.
- PROVIDE COMBUSTION AIR VENTS (W/ SCREEN AND BACK DAMPER) FOR FIREPLACES, WOOD STOVES AND ANY APPLIANCES WITH AN OPEN FLAME.
- BATHROOMS AND UTILITY ROOMS ARE TO BE VENTED TO THE OUTSIDE WITH A MINIMUM OF A 90 CFM FAN INTERMITTENT AND CONTROLLED BY A DE-HUMIDISTAT, TIMER OR SIMILAR MEANS OF CONTROL. RANGE HOODS ARE ALSO TO BE VENTED TO OUTSIDE @ 150 CFM INTERMITTENT.

ELECTRICAL REQUIREMENTS

LIGHTING REQUIREMENTS:

AT LEAST ONE WALL SWITCH-CONTROLLED LIGHTING OUTLET SHALL BE INSTALLED IN EVERY HABITABLE ROOM AND IN BATHROOMS, HALLWAYS, STAIRWAYS, ATTACHED GARAGES, DETACHED GARAGES PROVIDED WITH ELECTRICAL POWER AND AT THE EXTERIOR SIDE OF EGRESS DOORS.

STAIRWAY LIGHTING CONTROL:

ALL INTERIOR AND EXTERIOR STAIRWAYS SHALL BE PROVIDED WITH A MEANS OF ILLUMINATION TO THE STAIR, INCLUDING THE LANDINGS AND TREADS, TO BE CONTROLLED BY A WALL SWITCH AT EACH FLOOR LEVEL. INTERIOR STAIRS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF EACH LANDING AT THE TOP AND BOTTOM OF THE STAIR. EXTERIOR STAIRS SHALL BE PROVIDED WITH AN ARTIFICIAL LIGHT SOURCE LOCATED IN THE IMMEDIATE VICINITY OF THE TOP LANDING OF THE STAIR. EXCEPTION: WHERE THE DIFFERENCE BETWEEN FLOOR LEVELS REQUIRES LESS THAN 6 STAIR RISERS.

FIXTURES IN CLOTHES CLOSETS:

SURFACE MOUNTED FLUORESCENT FIXTURES SHALL BE INSTALLED ON THE WALL ABOVE THE DOOR OR ON THE CEILING, PROVIDED THERE IS A MINIMUM CLEARANCE OF 6" BETWEEN THE FIXTURE AND THE NEAREST POINT OF A STORAGE SPACE.

WET OR DAMP LOCATIONS:

FIXTURES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE INSTALLED SO THAT WATER CANNOT ENTER OR ACCUMULATE IN WIRING COMPARTMENTS, LAMP HOLDERS OR OTHER ELECTRICAL PARTS. ALL FIXTURES INSTALLED IN WET LOCATIONS SHALL BE MARKED 'SUITSABLE FOR WET LOCATIONS'. ALL FIXTURES INSTALLED IN DAMP LOCATIONS SHALL BE MARKED 'SUITSABLE FOR WET LOCATIONS' OR 'SUITSABLE FOR DAMP LOCATIONS'.

LIGHT SWITCH ACCESS:

ALL SWITCHES SHALL BE LOCATED TO ALLOW OPERATION FROM A READILY ACCESSIBLE LOCATION.

RECEPTACLE OUTLET REQUIREMENTS:

IN EVERY KITCHEN, FAMILY ROOM, DINING ROOM, LIVING ROOM, DEN, BEDROOM, OR SIMILAR ROOM OR AREA OF DWELLING UNITS, RECEPTACLE OUTLETS SHALL BE INSTALLED SO THAT NO POINT ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6 FEET, MEASURED HORIZONTALLY FROM AN OUTLET IN THAT SPACE, INCLUDING ANY WALL SPACE THAT IS 2 FEET OR MORE IN WIDTH.

KITCHENS:

RECEPTACLE OUTLETS, WITH GFI PROTECTION, SHALL BE INSTALLED EVERY 24" ON ALL COUNTER SPACES THAT MEASURE 12" OR WIDER.

BATHROOMS:

AT LEAST ONE WALL RECEPTACLE OUTLET, WITH GFI PROTECTION, SHALL BE INSTALLED IN BATHROOMS ADJACENT TO EACH BATH LOCATION.

OUTDOORS:

AT LEAST ONE RECEPTACLE OUTLET, WITH GFI PROTECTION, SHALL BE INSTALLED OUTDOORS AT THE FRONT AND BACK OF EACH DWELLING UNIT HAVING DIRECT ACCESS TO GRADE.

HALLWAYS:

HALLWAYS OF 10 FEET OR MORE IN LENGTH SHALL HAVE AT LEAST ONE RECEPTACLE OUTLET.

HYAC OUTLET:

A CONVENIENCE RECEPTACLE OUTLET SHALL BE INSTALLED FOR THE SERVICING OF HEATING, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT LOCATED IN ATTICS AND CRAWL SPACES.

WET LOCATIONS:

A RECEPTACLE INSTALLED IN A WET LOCATION SHALL BE IN A WEATHER PROOF ENCLOSURE, THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN THE ATTACHMENT PLUG CAP IS INSERTED.

*ADDITIONAL INFORMATION CAN BE FOUND IN THE OREGON RESIDENTIAL SPECIALTY CODE BOOK IN SECTIONS:

- E37-404 SWITCHES
- E37-406 RECEPTACLE OUTLETS
- E37-410 LIGHTING OUTLETS

HIGH-EFFICIENCY INTERIOR LIGHTING SYSTEM:

ALL PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN HIGH EFFICACY LAMPS. SCREW-IN COMPACT FLUORESCENT AND LED LAMPS COMPLY WITH THIS REQUIREMENT. (EXCEPTION: TWO PERMANENTLY INSTALLED LIGHTING FIXTURES ARE NOT REQUIRED TO HAVE HIGH EFFICACY LAMPS)

HIGH-EFFICIENCY EXTERIOR LIGHTING SYSTEM:

ALL EXTERIOR LIGHTING FIXTURES AFFIXED TO THE EXTERIOR OF THE BUILDING SHALL CONTAIN HIGH EFFICACY LAMPS. (EXCEPTION: TWO PERMANENTLY INSTALLED LIGHTING FIXTURES ARE NOT TO HAVE HIGH EFFICACY LAMPS.

FOUNDATION NOTES

1. FOOTINGS ARE TO BEAR ON UNDISTURBED LEVEL SOIL DEVOID OF ANY ORGANIC MATERIAL AND STEPPED AS REQUIRED TO MAINTAIN THE REQUIRED DEPTH BELOW THE FINAL GRADE.
2. SOIL BEARING PRESSURE ASSUMED TO BE 1500 PSF.
3. ANY FILL UNDER GRADE SUPPORTED SLABS TO BE A MINIMUM OF 4" GRANULAR MATERIAL COMPACTED TO 95%.
4. CONCRETE TO DEVELOP A MIN. OF 2500 PSI AT 28 DAYS WITH A MIN. OF 6 SACKS OF CEMENT PER YARD AND A MAXIMUM SLUMP OF 4".
5. CONCRETE SLABS TO HAVE CONTROL JOINTS AT 25' (MAXIMUM) INTERVALS EA. WAY.
6. CONCRETE SIDEWALKS TO HAVE 3/4" TOOLED JOINTS AT 5' O.C. (MINIMUM)
7. REINFORCING STEEL TO BE A-615 GRADE 40, WELDED WIRE MESH TO BE A-185.
8. EXCAVATE THE SITE TO PROVIDE A MINIMUM OF 18" CLEARANCE UNDER ALL GIRDERS.
9. COVER ENTIRE CRAWLSPACE WITH 6 MIL BLACK 'VISQUEEN' AND EXTEND UP FDN. WALLS TO P.T. MUDSILL.
10. PROVIDE A MINIMUM OF 1 SQ FT OF VENTILATION AREA FOR EACH 150 SQ FT OF CRAWLSPACE AREA. VENTS SHALL HAVE 1/4" OPENINGS IN CORROSIVE RESISTANT SCREEN.
11. ALL WOOD IN CONTACT WITH CONCRETE TO BE PRESSURE TREATED OR PROTECTED WITH 30# ROLL ROOFING.
12. BEAM ROCKETS IN CONCRETE TO HAVE 1/2" AIRSPACE AT SIDES AND ENDS WITH A MINIMUM BEARING OF 3".
13. PROVIDE CRAWLSPACE DRAIN AS PER SEC. R405.1 OF ORSC.
14. THE GRADE AWAY FROM FND WALLS SHALL FALL 6" MIN. WITHIN FIRST 10'.
15. SLOPE FOR PERMANENT FILLS AND CUT SLOPES SHALL NOT EXCEED 2 UNITS HORIZ. TO 1 UNIT VERT.
16. BACKFILL SHALL NOT BE PLACED UNTIL WALL HAS SUFFICIENT STRENGTH AND HAS BEEN ANCHORED TO FLOOR ABOVE ON WALLS W/ MORE THAN 4" UNBALANCED BACKFILL.
17. BUILDER SHALL BE RESPONSIBLE FOR SUPPORT OF ALL TEMPORARY EMBANKMENTS AND EXCAVATIONS.
18. FOOTINGS SHALL BE FOUNDED ON FIRM, UNDISTURBED, NATIVE, FREE DRAINING SOILS. CONDITIONS FOUND TO BE OTHERWISE SHALL BE REPORTED TO OWNER.
19. ALL GROUND OVER WHICH FOOTINGS AND SLABS-ON-GRADE ARE TO BE PLACED SHALL BE FREE OF EXPANSIVE OR COMPRESSIBLE DEBRIS AND ORGANIC MATERIAL.
20. FOOTINGS AND SLABS-ON-GRADE CONCRETE SHALL NOT BE PLACED ON MUDDY OR FROZEN GROUND. SUB-GRADE FOR SLABS-ON-GRADE WHERE VAPOR BARRIER IS NOT REQUIRED SHALL BE DAMP AT TIME OF CONCRETE PLACEMENT.
21. WOOD SOLE PLATES AT ALL EXTERIOR WALLS ON MONOLITHIC SLABS, AT ALL INTERIOR BRACE WALL PANELS ON MONOLITHIC SLABS AND AT ALL WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH MIN 1/2"x12" BOLTS AT 6' O.C. A 0.229"x3"x3" WASHER SHALL BE TIGHTENED ON EACH ANCHOR BOLT. INSTALL MIN (2) BOLTS AT THE MIDDLE THIRD POINTS OF EACH PLATE.
22. FOUNDATION WALLS BELOW GRADE SHALL BE DAMPROOFED FROM TOP OF THE FOOTING TO FINISHED GRADE WITH ANY OF THESE OPTIONS: 1) BITUMINOUS COATING; 2) 1/8" COATING OF SURFACE BONDING CEMENT COMPLYING WITH ASTM C 881; 3) 55 LB ROLL ROOFING; 4) 6 MIL POLYETHYLENE; 5) 40 MIL FLEXIBLE POLYMER CEMENT.

TABLE N101.1(2) ADDITIONAL MEASURES

ENVELOPE ENHANCEMENT MEASURES (SELECT ONE)	
1	HIGH EFFICIENCY WALLS: EXTERIOR WALLS - U-0.045/R-21 CAVITY INSULATION + R-5 CONTINUOUS
2	UPGRADED FEATURES: EXTERIOR WALLS - U-0.051/R-23 INTERMEDIATE OR R-21 ADVANCED FRAMED FLOORS - U-0.026/R-38, AND WINDOWS - U-0.28 (AVERAGE UA)
3	UPGRADED FEATURES: EXTERIOR WALLS - U-0.055/R-23 INTERMEDIATE OR R-21 ADVANCED FLAT CEILING (e) - U-0.017/R60, AND FRAMED FLOORS - U-0.026/R-38
4	SUPER INSULATED WINDOWS AND ATTIC OR FRAMED FLOORS: WINDOWS - U-0.22 (TRIPLE PANE LOW E), AND FLAT CEILING (e) - U-0.017/R60 OR FRAMED FLOORS - U-0.026/R-38
5	AIR SEALING HOME AND DUCTS: MANDATORY AIR SEALING OF ALL WALL COVERINGS AT TOP PLATE AND AIR SEALING CHECKLIST (f) AND MECHANICAL WHOLE-BUILDING VENTILATION SYSTEM WITH RATES MEETING M1503 OR ASHRAE 62.2, AND ALL DUCTS AND AIR HANDLERS CONTAINED WITHIN BUILDING ENVELOPE (d) OR ALL DUCTS SEALED WITH MASTIC (b)
6	HIGH EFFICIENCY THERMAL ENVELOPE UA(g): PROPOSED UA IS 8% LOWER THAN THE CODE UA
CONSERVATION MEASURE (SELECT ONE)	
A	HIGH EFFICIENCY HYAC SYSTEM (a): GAS FIRED FURNACE OR BOILER AFUE 94% OR AIR SOURCED HEAT PUMP HSPF 9.5/15.0 SEER COOLING, OR GROUND SOURCED HEAT PUMP COP 3.5 OR ENERGY STAR RATED
B	DUCTED HYAC SYSTEMS WITHIN CONDITIONED SPACE: ALL DUCTS AND AIR HANDLERS CONTAINED WITHIN BUILDING ENVELOPE (d) CANNOT BE COMBINED WITH MEASURE 5
C	DUCTLESS HEAT PUMP: DUCTLESS HEAT PUMP HSPF 10.0 IN PRIMARY ZONE OF DWELLING
D	HIGH EFFICIENCY WATER HEATER (c): NATURAL GAS / PROPANE WATER HEATER WITH UEF 0.85 OR ELECTRIC HEAT PUMP WATER HEATER TIER I NORTHERN CLIMATE SPECIFICATION PRODUCT

FOR 51: 1 SQUARE FOOT = 0.093 M², 1 WATT PER SQUARE FOOT = 10.8 W/M²

- a. Appliances located within the building thermal envelope shall have sealed combustion air installed. Combustion air shall be ducted directly from the outdoors.
- b. All duct joints and seams sealed with listed mastic; tape is only allowed at appliance or equipment connections (for service and replacement). Meet sealing criteria of Performance Tested Comfort System program administered by the Bonneville Power Administration (BPA).
- c. Residential water heaters less than 55 gallon storage volume.
- d. A total of 5 percent of an HVAC system's ductwork shall be permitted to be located outside of the conditioned space. Ducts located outside the conditioned space shall have insulation installed as required in this code.
- e. The maximum vaulted ceiling surface area shall not be greater than 50 percent of the total heated floor space unless vaulted area has a U-factor no greater than U-0.026.
- f. Continuous air barrier. Additional requirement for sealing of all interior vertical wall covering to top plate framing. Sealing with foam gasket, caulk or other approved sealant listed for sealing wall covering material to structural material (example: gypsum board to wood stud framing).
- g. Table N104.1(1) standard base case design. Code UA shall be at least 8 percent less than the Proposed UA. Buildings with fenestration less than 15 percent of the total vertical wall area may adjust to the Code UA to have 15 percent of the wall area as fenestration.

TRUSS NOTE

SUBMIT TRUSS DESIGN FOR ENGINEERING PRIOR TO FABRICATION & VERIFY LOCATION OF GIRDER TRUSSES W/ TRUSS COMPANY PRIOR TO FORMING FOUNDATION WALLS AS TO PROVIDE FOR ADDITIONAL LOADING FROM VARYING TRUSS DESIGN.
VERIFY ALL TRUSS SPANS & CONFIGURATIONS ON JOB SITE PRIOR TO FABRICATION.

SECTION N1107 LIGHTING

ALL PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN HIGH EFFICACY LAMPS. SCREW IN COMPACT FLUORESCENT AND LED LAMPS COMPLY WITH THIS REQUIREMENT. EXCEPTION: TWO PERMANENTLY INSTALLED LIGHTING FIXTURES ARE NOT REQUIRED TO HAVE HIGH EFFICACY LAMPS

ALL EXTERIOR LIGHTING FIXTURES AFFIXED TO THE EXTERIOR OF THE BUILDING SHALL CONTAIN HIGH EFFICACY LAMPS. EXCEPTION: TWO PERMANENTLY INSTALLED LIGHTING FIXTURES ARE NOT REQUIRED TO HAVE HIGH EFFICACY LAMPS.

NOTES SHEET

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SHEET: NOTES

DATE: 07/08

N2

TABLE 602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NO. & TYPE OF FASTENER ^{a,b,c}	SPACING AND LOCATION
Roof			
1	Blocking between ceiling joists or rafters to top plate	4-8d box (2 1/2"x0.113") or 3-8d common (2 1/2"x0.131") or 3-10d box (3"x0.128") or 3-3"x0.131" nails	Toe nail
2	Ceiling joists to top plate	4-8d box (2 1/2"x0.113") or 3-8d common (2 1/2"x0.131") or 3-10d box (3"x0.128") or 3-3"x0.131" nails	Per joist, toe nail
3	Ceiling joists not attached to parallel rafter, laps over partitions (see Sections R02.3.1, R02.3.2, and Table R02.3.(3))	4-10d box (2 1/2"x0.128") or 3-10d common (2 1/2"x0.162") or 4-3"x0.131" nails	Face nail
4	Ceiling joists attached to parallel rafter, heel joint (see Sections R02.3.1, R02.3.2, and Table R02.3.(3))	Table R02.3.(3)	Face nail
5	Collar tie to rafter, face nail or 1/4"x20 ga ridge strap to rafter	4-10d box (2 1/2"x0.128") or 3-10d common (2 1/2"x0.148") or 4-3"x0.131" nails	Face nail each rafter
6	Rafter or roof truss to plate	3-10d box (3 1/2"x0.135") or 3-10d common (3"x0.148") or 4-10d box (3"x0.128") or 4-3"x0.131" nails	2 toenails on one side and 1 toe nail on opposite side of each rafter or truss
7	Roof rafters to ridge, valley or hip rafters or roof rafter to minimum 2' ridge beam	4-10d box (3 1/2"x0.135") or 3-10d common (3"x0.148") or 4-10d box (3"x0.128") or 4-3"x0.131" nails	Toe nail
		3-10d box (3 1/2"x0.135") or 2-10d common (3 1/2"x0.162") or 3-10d box (3"x0.128") or 3-3"x0.131" nails	End nail
Wall			
8	Stud to stud (not at braced wall panels)	16d common (3 1/2"x0.162")	24" o.c. face nail
9	Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d box (3 1/2"x0.135") 3"x0.131" nails	16" o.c. face nail
10	Built up header (2' to 2' header with 1/2" spacer)	16d common (3 1/2"x0.162") 16d box (3 1/2"x0.135")	16" o.c. each edge face nail 12" o.c. each edge face nail
11	Continuous header to stud	5-8d box (2 1/2"x0.113") or 4-8d common (2 1/2"x0.131") or 4-10d box (3"x0.128")	Toe nail
12	Top plate to top plate	16d common (3 1/2"x0.162") 16d box (3 1/2"x0.135")	16" o.c. face nail 12" o.c. face nail
13	Double top plate splice for SDC's A-D ₂ with seismic braced wall line spacing less than 25'	8-16d common (3 1/2"x0.162") or 12-16d box (3 1/2"x0.135") or 12-10d box (3"x0.128") or 12-3"x0.131" nails	Face nail on each side of end joint (minimum 24" lap splice length each side of end joint)
	Double top plate splice for SDC's D ₁ or D ₂ and braced wall line spacing equal to or greater than 25'	12-16d box (3 1/2"x0.135")	
14	Bottom plate to joist, rim joist, band joist, solid deck or blocking (not at braced wall panel)	16d common (3 1/2"x0.162") 16d box (3 1/2"x0.135") or 3"x0.131" nails	16" o.c. face nail 12" o.c. face nail
15	Bottom plate to joist, rim joist, band joist, solid deck or blocking (at braced wall panel)	3-16d box (3 1/2"x0.135") or 2-16d common (3 1/2"x0.162") or 4-3"x0.131" nails	3 each 16" o.c. face nail 2 each 16" o.c. face nail 4 each 16" o.c. face nail
16	Top or bottom plate to stud	4-8d box (2 1/2"x0.113") or 3-16d box (3 1/2"x0.135") or 4-8d common (2 1/2"x0.131") or 4-10d box (3"x0.128") or 4-3"x0.131" nails	Toe nail
		3-16d box (3 1/2"x0.135") or 2-16d common (3 1/2"x0.162") or 3-10d box (3"x0.128") or 3-3"x0.131" nails	End nail
17	Top plates, laps at corners and intersections	3-10d box (3"x0.128") or 2-16d common (3 1/2"x0.162") or 3-3"x0.131" nails	Face nail
18	1' brace to each stud and plate	3-8d box (2 1/2"x0.113") or 2-8d common (2 1/2"x0.131") or 2-10d box (3"x0.128") or 2 staples P ₄	Face nail
19	1'x6" sheathing to each bearing	3-8d box (2 1/2"x0.113") or 3-8d common (2 1/2"x0.131") or 3-10d box (3"x0.128") or 4 staples, 1" crown, 16 ga., P ₄	Face nail
20	1'x8" and wider sheathing to each bearing	3-8d box (2 1/2"x0.113") or 3-8d common (2 1/2"x0.131") or 3-10d box (3"x0.128") or 4 staples, 1" crown, 16 ga., P ₄	Face nail

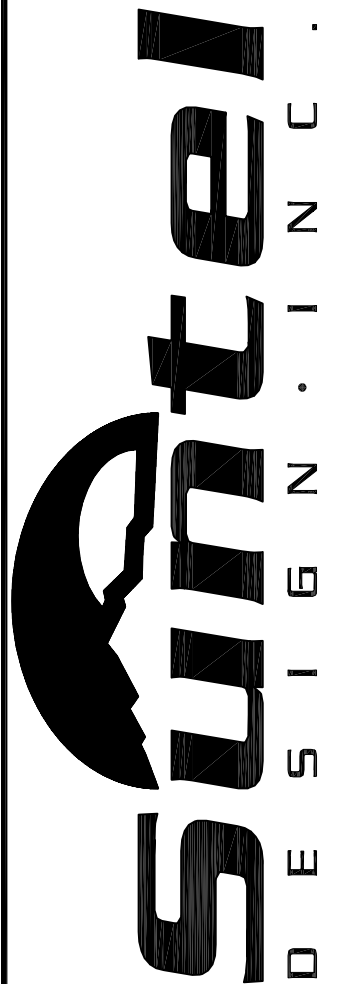
TABLE 602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

ITEM	DESCRIPTION OF BUILDING ELEMENTS	NO. & TYPE OF FASTENER ^{a,b,c}	SPACING AND LOCATION	
Floor				
21	Joist to sill, top plate or girder	4-8d box (2 1/2"x0.113") or 3-8d common (2 1/2"x0.131") or 3-10d box (3"x0.128") or 3"x0.131" nails	Toe nail	
22	Rim joist, bandjoist or blocking to sill or top plate (roof applications also)	8d box (2 1/2"x0.113") 8d common (2 1/2"x0.131") or 10d common (2 1/2"x0.148") or 3"x0.131" nails	4" o.c. toe nail 6" o.c. toe nail	
23	1'x6" subfloor or less to each joist	3-8d box (2 1/2"x0.113") or 2-8d common (2 1/2"x0.131") or 3-10d box (3"x0.128") or 2 staples, 1" crown, 16 ga., P ₄	Face nail	
24	2' subfloor to joist or girder	3-16d box (3 1/2"x0.135") or 2-16d common (3 1/2"x0.162")	Blind and face nail	
25	2' planks (plank and beam - floor and roof)	3-16d box (3 1/2"x0.135") or 2-16d common (3 1/2"x0.162")	At each bearing, face nail	
26	Band or rim to joist	3-16d common (3 1/2"x0.162") or 4-16d box (3"x0.128") or 4-3"x0.131" nails or 4-3"x14 ga. staples, 7/16" crowns	End nail	
27	Built-up girders and beams, 2 inch lumber layers	20d common (4"x0.192")	Nail each layer as follows: 32" o.c. at top and bottom, staggered	
		10d box (3"x0.128") or 3-3"x0.131" nails	24" o.c. face nail at top and bottom staggered on opposite sides	
28	Ledger strip supporting joists or rafters	And: 2-20d common (4"x0.192") or 3-10d box (3"x0.128") or 3-3"x0.131" nails	Face nail at ends and at each splice	
29	Bridging to joist	2-10d (3"x0.128")	Each end, toe nail	
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NO. & TYPE OF FASTENER ^{a,b,c}	SPACING OF FASTENERS	
Wood structural panels, subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing (see Table R02.3(3) for wood structural panel exterior wall sheathing to wall framing)				
30	3/8" - 1/2"	6d common (2"x0.113") nail (subfloor, wall) 8d common (2 1/2"x0.131") nail (roof)	6	12 ^f
31	19/32" - 1"	8d common (2 1/2"x0.131") nail (roof)	6	12 ^f
32	1 1/8" - 1 1/4"	10d common (3"x0.148") nail or 8d (2 1/2"x0.131") deformed nail	6	12
Other wall sheathing ^d				
33	1/2" structural cellulose fiberboard she'tg	1 1/2" galvanized roofing nail, 7/16" head diameter, or 1" crown staple 16 ga., 1 1/4" long	3	6
34	25/32" structural cellulose fiberboard she'tg	1 3/4" galvanized roofing nail, 7/16" head diameter, or 1" crown staple 16 ga., 1 1/4" long	3	6
35	1/2" gypsum sheathing	1 1/2" galvanized roofing nail: staple galvanized, 1 1/4" screws, Type W or S	7	7
36	5/8" gypsum sheathing	1 3/4" galvanized roofing nail: staple galvanized, 1 5/8" screws, Type W or S	7	7
Wood structural panels, combination subfloor underlayment to framing				
37	3/4" and less	6d deformed (2"x0.120") nail or 8d common (2 1/2"x0.131") nail	6	12
38	7/8" - 1"	8d common (2 1/2"x0.131") nail or 8d deformed (2 1/2"x0.120") nail	6	12
39	1 1/8" - 1 1/4"	10d common (3"x0.148") nail or 8d deformed (2 1/2"x0.120") nail	6	12

FOR 51: 1 INCH = 25.4 MM, 1 FOOT = 304.8 MM, 1 MPH = 0.447 M/S; 1 KSI = 68.95 MPa

- ALL NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS 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 0.131" INCH (20d COMMON NAIL), 80 KSI FOR SHANK DIAMETERS LARGER THAN 0.142" INCH BUT NOT LARGER THAN 0.171" INCH, AND 100 KSI FOR SHANK DIAMETERS OF 0.142" INCH OR LESS.
- STAPLES ARE 16 GAUGE WIRE AND HAVE A MINIMUM 7/16"-INCH O.D. CROWN WIDTH.
- NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES O.C. AT ALL SUPPORTS WHERE SPANS ARE 40 INCHES OR GREATER.
- 4-FOOT-BY-8-FOOT OR 4-FOOT-BY-9-FOOT PANELS SHALL BE APPLIED VERTICALLY.
- SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE 602.3(2).
- WHERE THE ULTIMATE DESIGN WIND SPEED IS 130 MPH OR LESS, NAILS FOR ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMING SHALL BE SPACED 6" ON CENTER. WHERE THE ULTIMATE DESIGN SPEED IS GREATER THAN 130 MPH, NAILS FOR ATTACHING PANEL ROOF SHEATHING TO INTERMEDIATE SUPPORTS SHALL BE SPACED 6" ON CENTER FOR MINIMUM 48 INCH DISTANCES FROM RIDGES, EAVES AND GABLE END WALLS; AND 4 INCHES ON CENTER TO GABLE END WALL FRAMING.
- GYPSUM SHEATHING SHALL CONFORM TO ASTM C1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO ASTM C1208.
- SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT ALL FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING. BLOCKING TO ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS NEED NOT BE PROVIDED EXCEPT AS REQUIRED BY OTHER PROVISIONS OF THIS CODE. FLOOR PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING.
- WHERE A RAFTER FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE, PROVIDE TWO TOE NAILS ON ONE SIDE OF THE RAFTER AND TWO 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.
- INTERIOR NON-BRACED WALL LINES MAY BE NAILED WITH A MINIMUM 4-10d NAILS.

NOTES SHEET



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SHEET: NOTES

DATE: 07/08

N3