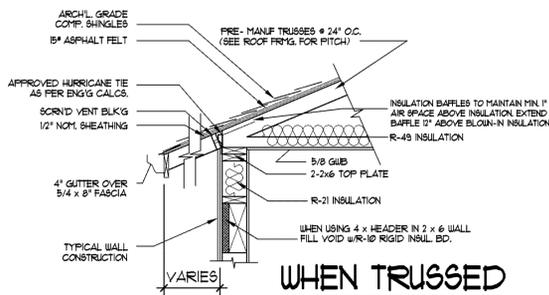
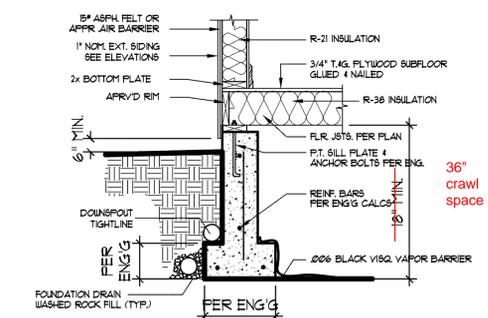




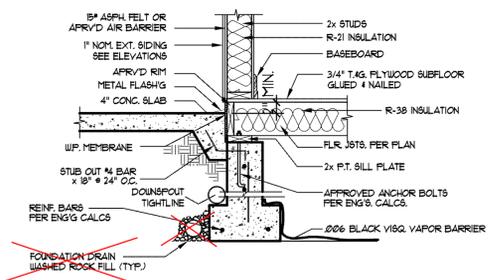
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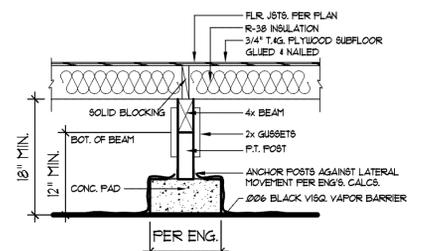
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TYP. ONE STORY CONFIG. (A)  
SCALE: 1/2" = 1'-0"

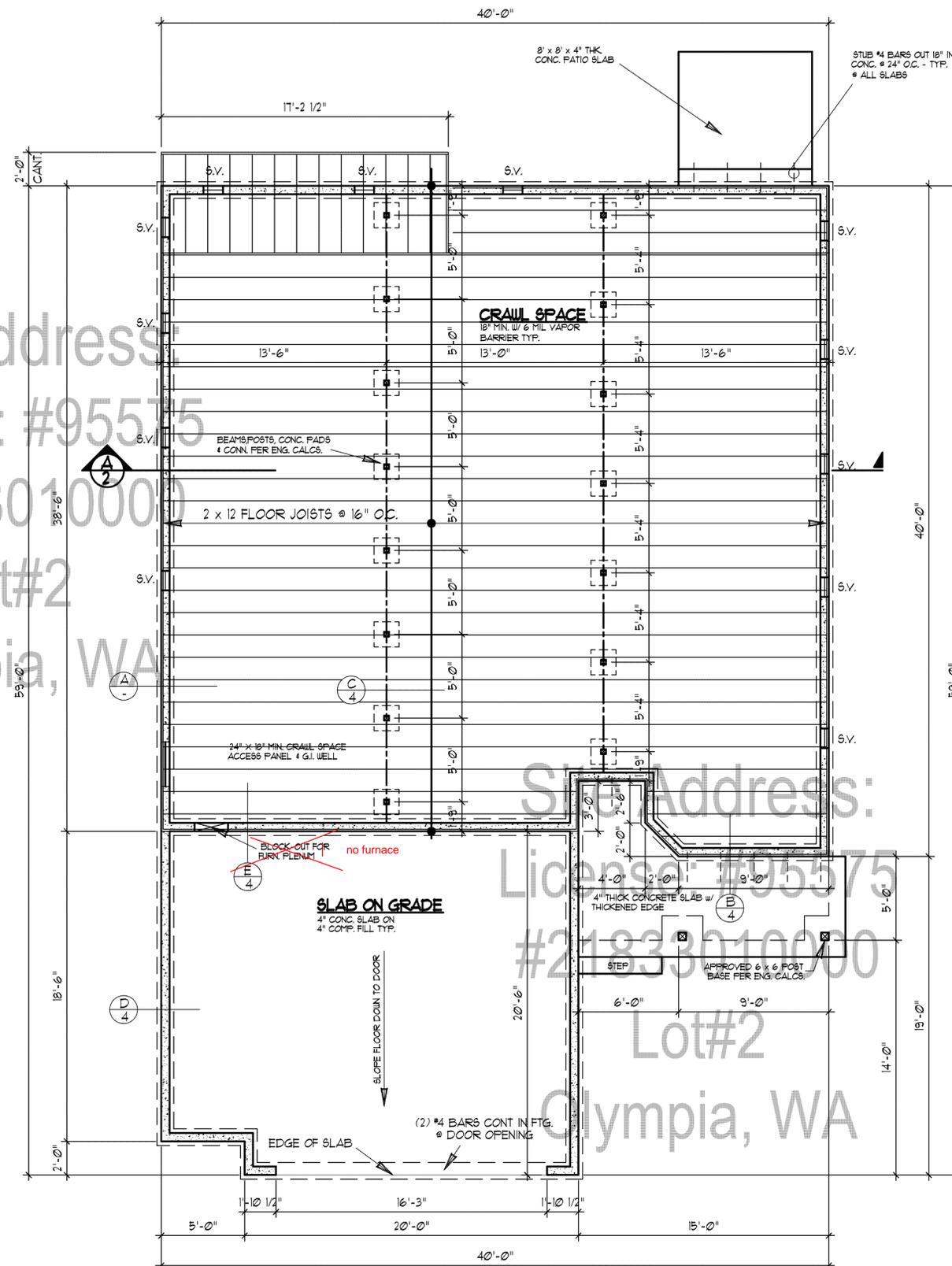


PORCH SLAB DETAIL (B)  
SCALE: 1/2" = 1'-0"



GIRDER DETAIL (C)  
SCALE: 1/2" = 1'-0"

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FOUNDATION & FLOOR FRAMING PLAN

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

FOUNDATION VENTILATION

PROVIDE CRAWL SPACE VENTILATION AS PER IRC (1543 Sq. Ft. x 1/150 = 10.3 Sq. Ft. VENT AREA REQ'D)

NOTE:

While every attempt has been made to assure the accuracy of these drawings, **ALL INFORMATION MUST BE VERIFIED** prior to ordering any raw materials or fabricated components. Any structural components specified are for reference only and must be verified with the **ENGINEER OF RECORD'S "S-Sheets"** and/or (attached) documents

R401.6. IRC R401.4.1 IN LIEU OF A COMPLETE GEO-TECHNICAL EVALUATION, THE LOAD-BEARING VALUES IN TABLE R401.4.1 SHALL BE USED.

R403.15 SLOPE. THE TOP SURFACE OF FOOTINGS SHALL BE LEVEL. THE BOTTOM SURFACE OF FOOTINGS SHALL NOT HAVE A SLOPE EXCEEDING ONE UNIT VERTICAL IN 10 UNITS HORIZONTAL (10-PERCENT SLOPE). FOOTINGS SHALL BE STEPPED WHERE IT IS NECESSARY TO CHANGE THE ELEVATION OF THE TOP SURFACE OF THE FOOTINGS OR WHERE THE SLOPE OF THE BOTTOM SURFACE OF THE FOOTINGS WILL EXCEED ONE UNIT VERTICAL IN 10 UNITS HORIZONTAL (10-PERCENT SLOPE).

EROSION CONTROL. ADJOINING PUBLIC AND PRIVATE PROPERTY SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION, REMODELING AND DEMOLITION WORK. VERIFY METHOD WITH LOCAL JURISDICTION.

R403.3 DRAINAGE. SURFACE DRAINAGE SHALL BE DIVERTED TO A STORM SEWER CONVEYANCE OR OTHER APPROVED POINT OF COLLECTION THAT DOES NOT CREATE A HAZARD. LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FALL NOT FEWER THAN 6 INCHES (152 MM) WITHIN THE FIRST 10 FEET (3048 MM).

FOUNDATION WALL SIZE. R404.1.5.2 CONCRETE WALL THICKNESS. THE THICKNESS OF CONCRETE FOUNDATION WALLS SHALL BE EQUAL TO OR GREATER THAN THE THICKNESS OF THE WALL IN THE STORY ABOVE.

R404.1.6 HEIGHT ABOVE FINISHED GRADE. CONCRETE AND MASONRY FOUNDATION WALLS SHALL EXTEND ABOVE THE FINISHED GRADE ADJACENT TO THE FOUNDATION AT ALL POINTS NOT LESS THAN 4 INCHES (102 MM) WHERE MASONRY VENEER IS USED AND NOT LESS THAN 6 INCHES (152 MM) ELSEWHERE.

R403.16 FOUNDATION ANCHORAGE. WOOD SILL PLATES AND WOOD WALLS SUPPORTED DIRECTLY ON CONTINUOUS FOUNDATIONS SHALL BE ANCHORED TO THE FOUNDATION IN ACCORDANCE WITH THIS SECTION. WOOD SOLE PLATES AT ALL EXTERIOR WALLS ON MONOLITHIC SLABS, WOOD SOLE PLATES OF BRACED WALL PANELS AT BUILDING INTERIORS ON MONOLITHIC SLABS AND ALL WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH MINIMUM 1/2-INCH DIAMETER (12.7 MM) ANCHOR BOLTS SPACED NOT GREATER THAN 6 FEET (1829 MM) ON CENTER OR APPROVED ANCHORS OR ANCHOR STRAPS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE TO 1/2-INCH-DIAMETER (12.7 MM) ANCHOR BOLTS. BOLTS SHALL EXTEND NOT LESS THAN 1 INCHES (25.4 MM) INTO CONCRETE OR GROUTED CELLS OF CONCRETE MASONRY UNITS. THE BOLTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE WIDTH OF THE PLATE. A NUT AND WASHER SHALL BE TIGHTENED ON EACH ANCHOR BOLT. THERE SHALL BE NOT FEWER THAN TWO BOLTS PER PLATE SECTION WITH ONE BOLT LOCATED NOT MORE THAN 12 INCHES (305 MM) OR LESS THAN 3 BOLT DIAMETERS FROM EACH END OF THE PLATE SECTION. INTERIOR BEARING WALL SOLE PLATES ON MONOLITHIC SLAB FOUNDATION THAT ARE NOT PART OF A BRACED WALL PANEL SHALL BE POSITIVELY ANCHORED WITH APPROVED FASTENERS. SILL PLATES AND SOLE PLATES SHALL BE PROTECTED AGAINST DECAY AND TERMITES WHERE REQUIRED BY SECTIONS R311 AND R318.

R311 LOCATION REQUIRED. PROTECTION OF WOOD AND WOODBASED PRODUCTS FROM DECAY SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS BY THE USE OF NATURALLY DURABLE WOOD OR WOOD THAT IS PRESERVATIVE-TREATED IN ACCORDANCE WITH ALUFA U1.  
4. THE ENDS OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS HAVING CLEARANCES OF LESS THAN 1/2 INCH (12.7 MM) ON TOPS, SIDES AND ENDS.

FOUNDATION. R1003.2 FOOTINGS AND FOUNDATIONS. FOOTINGS FOR MASONRY CHIMNEYS SHALL BE CONSTRUCTED OF CONCRETE OR SOLID MASONRY NOT LESS THAN 12 INCHES (305 MM) THICK AND SHALL EXTEND NO LESS THAN 6 INCHES (152 MM) BEYOND THE FACE OF THE FOUNDATION OR SUPPORT WALL ON ALL SIDES. FOOTINGS SHALL BE FOUNDED ON NATURAL UNDISTURBED EARTH OR ENGINEERED FILL BELOW FROST DEPTH. IN AREAS NOT SUBJECTED TO FREEZING, FOOTINGS SHALL BE NOT LESS THAN 12 INCHES (305 MM) BELOW FINISHED GRADE.

CONCRETE STRENGTH. IRC R402.2 CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH AS SHOWN IN TABLE R402.2. CONCRETE SUBJECT TO WEATHERING SHALL BE AIR ENTRAINED AS SPECIFIED IN TABLE R402.2 UNLESS NOTED OTHERWISE BY THE ENGINEER OF RECORD ON THEIR S-SHEETS.

FILL. R506.2.2 BASE. A 4-INCH-THICK (102 MM) BASE COURSE CONSISTING OF CLEAN GRADED SAND, GRAVEL, CRUSHED STONE, CRUSHED CONCRETE OR CRUSHED BLAST-FURNACE SLAG PASSING A 2-INCH (51 MM) SIEVE SHALL BE PLACED ON THE PREPARED SUBGRADE WHERE THE SLAB IS BELOW GRADE.

R403.13 FOOTINGS AND STEM WALL REINFORCING IN SEISMIC DESIGN CATEGORIES D0, D1, AND D2. CONCRETE FOOTINGS LOCATED IN SEISMIC DESIGN CATEGORIES D0, D1 AND D2, AS ESTABLISHED IN TABLE R302.2(1), SHALL HAVE MINIMUM REINFORCEMENT IN ACCORDANCE WITH THIS SECTION AND FIGURE R403.13. REINFORCEMENT SHALL BE INSTALLED WITH SUPPORT AND COVER IN ACCORDANCE WITH SECTION R403.13.5.

R403.14 MINIMUM DEPTH. EXTERIOR FOOTINGS SHALL BE PLACED NOT LESS THAN 12 INCHES (305 MM) BELOW THE UNDISTURBED GROUND SURFACE, WHERE APPLICABLE. THE DEPTH OF FOOTINGS SHALL ALSO CONFORM TO SECTION R403.14.1.

R403.11 MINIMUM SIZE. THE MINIMUM WIDTH, W, AND THICKNESS, T, FOR CONCRETE FOOTINGS SHALL BE IN ACCORDANCE WITH TABLES R403.1(1) THROUGH R403.1(3) AND FIGURE R403.1(1) OR R403.1.5, AS APPLICABLE. THE FOOTING WIDTH SHALL BE BASED ON THE LOAD-BEARING VALUE OF THE SOIL. IN ACCORDANCE WITH TABLE R401.4.1, FOOTING PROJECTIONS, P, SHALL BE NOT LESS THAN 2 INCHES (51 MM) AND SHALL NOT EXCEED THE THICKNESS OF THE FOOTING. FOOTING THICKNESS AND PROJECTION FOR FIREPLACES SHALL BE IN ACCORDANCE WITH SECTION R102.2. THE SIZE OF FOOTINGS SUPPORTING PIERS AND COLLUMS SHALL BE BASED ON THE TRIBUTARY LOAD AND ALLOWABLE SOIL PRESSURE IN ACCORDANCE WITH TABLE R401.4.1. FOOTINGS FOR WOOD FOUNDATIONS SHALL BE IN ACCORDANCE WITH THE DETAILS SET FORTH IN SECTION R403.2, AND FIGURES R403.2(1) AND R403.2(3). FOOTINGS FOR PRECAST FOUNDATIONS SHALL BE IN ACCORDANCE WITH THE DETAILS SET FORTH IN SECTION R403.4, TABLE R403.4, AND FIGURES R403.4(1) AND R403.4(2).

R406.1 CONCRETE AND MASONRY FOUNDATION DAMPROOFING. EXCEPT WHERE REQUIRED BY SECTION R406.2 TO BE WATERPROOFED, FOUNDATION WALLS THAT RETAIN EARTH AND ENCLOSE INTERIOR SPACES AND FLOORS BELOW GRADE SHALL BE DAMPROOFED FROM THE HIGHER OF (A) THE TOP OF THE FOOTING OR (B) 6 INCHES (152 MM) BELOW THE TOP OF THE BASEMENT FLOOR TO THE FINISHED GRADE. MASONRY WALLS SHALL HAVE NOT LESS THAN 3/8-INCH (9.5 MM) PORTLAND CEMENT FARGING APPLIED TO THE EXTERIOR OF THE WALL. THE FARGING SHALL BE DAMPROOFED IN ACCORDANCE WITH ONE OF THE FOLLOWING:  
1. BITUMINOUS COATING.  
2. THREE POUNDS PER SQUARE YARD (163 KG/M2) OF ACRYLIC MODIFIED CEMENT.  
3. ONE-EIGHTH-INCH (3.2 MM) COAT OF SURFACE-BONDING CEMENT COMPLYING WITH ASTM C881.  
4. ANY MATERIAL PERMITTED FOR WATERPROOFING IN SECTION R406.2.  
5. OTHER APPROVED METHODS OR MATERIALS.  
EXCEPTION: FARGING OF UNIT MASONRY WALLS IS NOT REQUIRED WHERE A MATERIAL IS APPROVED FOR DIRECT APPLICATION TO THE MASONRY.

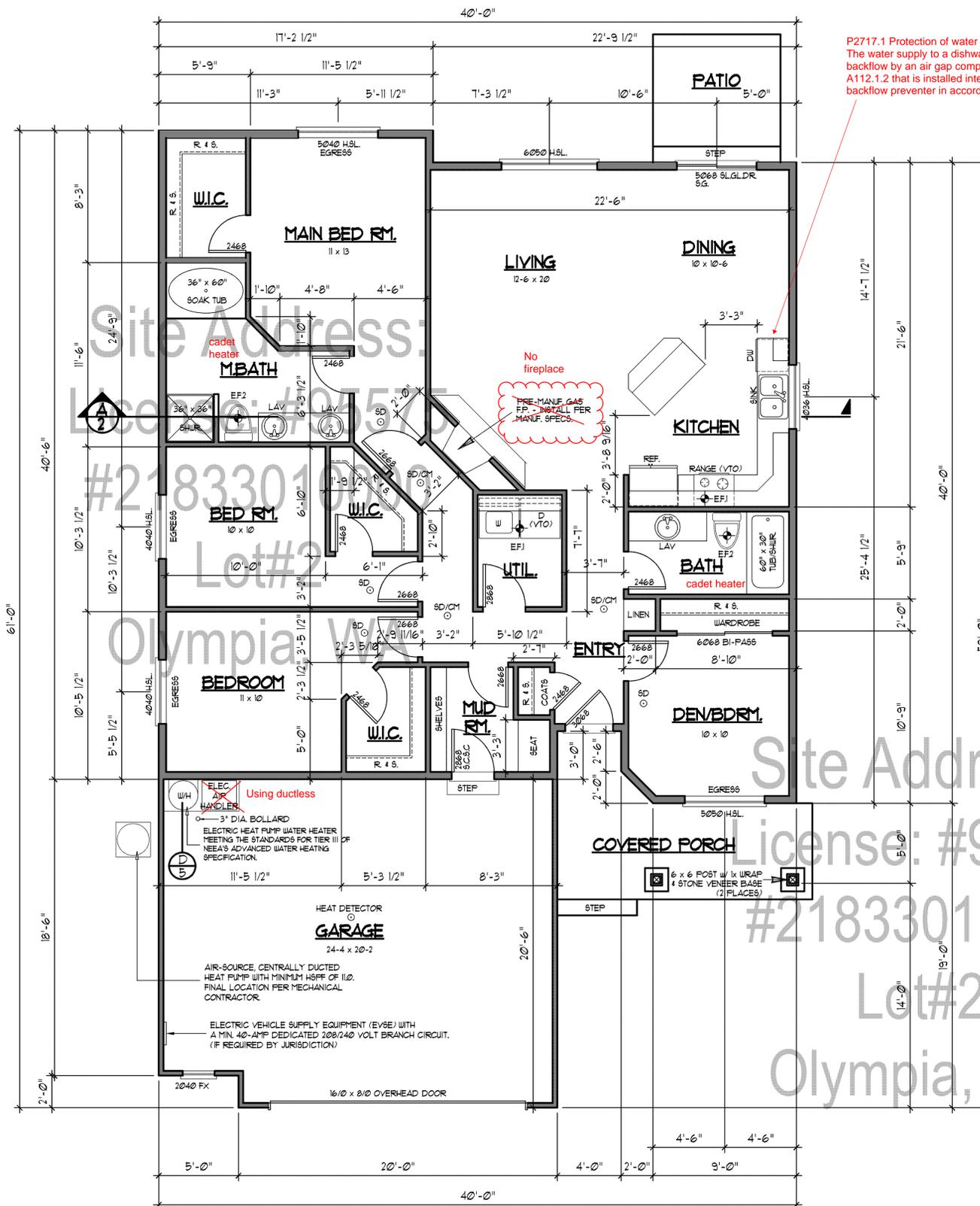
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P2717.1 Protection of water supply.  
The water supply to a dishwasher shall be protected against backflow by an air gap complying with ASME A112.1.3 or A112.1.2 that is installed integrally within the machine or a backflow preventer in accordance with Section P2902.

RANGE HOOD: M15031 GENERAL DOMESTIC OPEN-TOP BROILER UNITS SHALL HAVE A METAL EXHAUST HOOD, HAVING A MINIMUM THICKNESS OF 0.0151-INCH (0.3960 MM) (NO. 28 GAUGE) WITH 1/4 INCH (6.4 MM) CLEARANCE BETWEEN THE HOOD AND THE UNDERSIDE OF COMBUSTIBLE MATERIAL OR CABINETS. A CLEARANCE OF AT LEAST 24 INCHES (610 MM) SHALL BE MAINTAINED BETWEEN THE COOKING SURFACE AND THE COMBUSTIBLE MATERIAL OR CABINET. THE HOOD SHALL BE AT LEAST AS WIDE AS THE BROILER UNIT, EXTEND OVER THE ENTIRE UNIT, DISCHARGE TO THE OUTDOORS AND BE EQUIPPED WITH A BACKDRAFT DAMPER OR OTHER MEANS TO CONTROL INFILTRATION/FILTRATION WHEN NOT IN OPERATION. BROILER UNITS INCORPORATING AN INTEGRAL EXHAUST SYSTEM AND LISTED AND LABELED FOR USE WITHOUT AN EXHAUST HOOD, NEED NOT HAVE AN EXHAUST HOOD.

EXHAUST OPENINGS: M15043 AIR EXHAUST OPENINGS SHALL TERMINATE AS FOLLOWS:  
1. NOT LESS THAN 3 FEET (914 MM) FROM PROPERTY LINES.  
2. NOT LESS THAN 3 FEET (914 MM) FROM GRAVITY AIR INTAKE OPENINGS, OPERABLE WINDOWS AND DOORS.  
3. NOT LESS THAN 10 FEET (3048 MM) FROM MECHANICAL AIR INTAKE OPENINGS EXCEPT WHERE THE EXHAUST OPENING IS LOCATED NOT LESS THAN 3 FEET (914 MM) ABOVE THE AIR INTAKE OPENING. OPENINGS SHALL COMPLY WITH SECTIONS R303.5.2 AND R303.6.

EXHAUST DUCTING: M15033 GENERAL RANGE HOODS SHALL DISCHARGE TO THE OUT-DOORS THROUGH A DUCT. THE DUCT SERVING THE HOOD SHALL HAVE A SMOOTH INTERIOR SURFACE, SHALL BE AIR TIGHT, SHALL BE EQUIPPED WITH A BACKDRAFT DAMPER AND SHALL BE INDEPENDENT OF ALL OTHER EXHAUST SYSTEMS. DUCTS SERVING RANGE HOODS SHALL NOT TERMINATE IN AN ATTIC OR CRAWL SPACE OR AREAS INSIDE THE BUILDING.

R303.10 REQUIRED HEATING: WHERE THE WINTER DESIGN TEMPERATURE IN TABLE R302.1(1) IS BELOW 60°F (16°C), EVERY DWELLING UNIT SHALL BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A ROOM TEMPERATURE OF NOT LESS THAN 68°F (20°C) AT A POINT 3 FEET (914 MM) ABOVE THE FLOOR AND 2 FEET (610 MM) FROM EXTERIOR WALLS IN HABITABLE ROOMS AT THE DESIGN TEMPERATURE. THE INSTALLATION OF ONE OR MORE PORTABLE SPACE HEATERS SHALL NOT BE USED TO ACHIEVE COMPLIANCE WITH THIS SECTION.

HEATING TYPE: HEATING TYPE AND FUEL SHALL BE SELECTED BY THE OWNER. ALL WARM AIR FURNACES SHALL BE LISTED AND LABELED BY AN APPROVED AGENCY AND INSTALLED TO LISTED SPECIFICATIONS.

FIREBLOCKING: R302.1 FIREBLOCKING. IN COMBUSTIBLE CONSTRUCTION FIREBLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE. FIREBLOCKING SHALL BE PROVIDED IN WOOD-FRAME CONSTRUCTION IN THE FOLLOWING LOCATIONS:

1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES AND PARALLEL ROUS OF STUDS OR STAGGERED STUDS, AS FOLLOWS:  
1.1 VERTICALLY AT THE CEILING AND FLOOR LEVELS.  
1.2 HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET (3048 MM).
2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.
3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN. ENCLOSED SPACES UNDER STAIRS SHALL COMPLY WITH SECTION R302.1.
4. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CABLES WIRES AT CEILING AND FLOOR LEVELS. MATERIAL TO RESIST THE FREE PASSAGE OF FLAME AND PRODUCTS OF COMBUSTION THE MATERIAL FILLING THIS ANNULAR SPACE SHALL NOT BE REQUIRED TO MEET THE ASTM E 136 REQUIREMENTS.
5. FOR THE FIREBLOCKING OF CHIMNEYS AND FIREPLACES, SEE SECTION R1003.12.
6. FIREBLOCKING OF CONCEALED RANGE HOODS IS REQUIRED AT THE LINE OF DWELLING UNIT SEPARATION.

M15093 RECIRCULATION OF AIR EXHAUST AIR FROM BATHROOMS AND TOILET ROOMS SHALL NOT BE RECIRCULATED INTO A RESIDENCE OR CIRCULATED TO ANOTHER DWELLING UNIT AND SHALL BE EXHAUSTED DIRECTLY TO THE OUTDOORS. EXHAUST AIR FROM BATHROOMS, TOILET ROOMS AND KITCHENS SHALL NOT DISCHARGE INTO AN ATTIC, CRAWL SPACE OR OTHER AREAS INSIDE THE BUILDING. THIS SECTION SHALL NOT PROHIBIT THE INSTALLATION OF DUCTLESS RANGE HOODS IN ACCORDANCE WITH THE EXCEPTION TO SECTION M1503.3.

M16041 JOINTS, BEAMS AND CONNECTIONS, LONGITUDINAL AND TRANSVERSE JOINTS, BEAMS AND CONNECTIONS IN METALLIC AND NONMETALLIC DUCTS SHALL BE CONSTRUCTED AS SPECIFIED IN SHACNA HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE AND NAIMA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS. JOINTS, LONGITUDINAL AND TRANSVERSE BEAMS, AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, LIQUID SEALANTS OR TAPES, TAPES AND MASTICS USED TO SEAL FIBROUS GLASS DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND SHALL BE MARKED "181A-F" FOR PRESSURE-SENSITIVE TAPE, "181-B" FOR MASTIC OR "181-A-H" FOR HEAT-SENSITIVE TAPE. TAPES AND MASTICS USED TO SEAL METALLIC AND FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181-B-FX" FOR PRESSURE-SENSITIVE TAPE OR "181-BM" FOR MASTIC. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEMS SHALL BE SEALED AND MECHANICALLY FASTENED. MECHANICAL FASTENERS FOR USE WITH FLEXIBLE NONMETALLIC AIR DUCTS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181B-C" CRIMP JOINTS FOR ROUND METALLIC DUCTS SHALL HAVE A CONTACT LAP OF NOT LESS THAN 1 INCH (25 MM) AND SHALL BE MECHANICALLY FASTENED BY MEANS OF NOT LESS THAN THREE SHEET-METAL SCREWS OR RIVET EQUALLY SPACED AROUND THE JOINT.

EGRESS DOOR: R312 EGRESS DOOR NOT LESS THAN ONE EGRESS DOOR SHALL BE PROVIDED FOR EACH DWELLING UNIT. THE EGRESS DOOR SHALL BE SIDE-HINGED, AND SHALL PROVIDE A CLEAR WIDTH OF NOT LESS THAN 32 INCHES (813 MM) WHERE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES (151 RAD). THE CLEAR HEIGHT OF THE DOOR OPENING SHALL BE NOT LESS THAN 78 INCHES (1981 MM) IN HEIGHT MEASURED FROM THE TOP OF THE THRESHOLD TO THE BOTTOM OF THE STOP. OTHER DOORS SHALL NOT BE REQUIRED TO COMPLY WITH THESE MINIMUM DIMENSIONS SHALL BE READILY OPERABLE FROM INSIDE THE DWELLING WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

R313 FLOORS AND LANDINGS AT EXTERIOR DOORS: THERE SHALL BE A LANDING OR FLOOR ON EACH SIDE OF EACH EXTERIOR DOOR. THE WIDTH OF EACH LANDING SHALL BE NOT LESS THAN THE DOOR SERVED. LANDINGS SHALL HAVE A DIMENSION OF NOT LESS THAN 36 INCHES (914 MM) MEASURED IN THE DIRECTION OF TRAVEL. THE SLOPE AT EXTERIOR LANDINGS SHALL NOT EXCEED 1/4 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2 PERCENT).

GARAGE/DWELLING DOOR: R302.3 OPENING PROTECTION. OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING SHALL NOT BE PERMITTED. OTHER OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAN 1 3/8 INCHES (35 MM) IN THICKNESS, SOLID OR HONEYCOMB CORE STEEL DOORS NOT LESS THAN 1 3/8 INCHES (35 MM) THICK, OR 20-MINUTE FIRE-RATED DOORS, EQUIPPED WITH A SELF-CLOSING OR AUTOMATIC-CLOSING DEVICE.

R308.42 GLAZING ADJACENT TO DOORS: GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES (1524 MM) ABOVE THE FLOOR OR WALKING SURFACE AND IT MEETS EITHER OF THE FOLLOWING CONDITIONS:

1. WHERE THE GLAZING IS WITHIN 24 INCHES (610 MM) OF EITHER SIDE OF THE DOOR IN THE PLANE OF THE DOOR IN A CLOSED POSITION.
2. WHERE THE GLAZING IS ON A WALL LESS THAN 180 DEGREES (314 RAD) FROM THE PLANE OF THE DOOR IN A CLOSED POSITION AND WITHIN 24 INCHES (610 MM) OF THE HINGE SIDE OF AN IN-SWINGING DOOR.

R302.6 DWELLING-GARAGE FIRE SEPARATION: THE GARAGE SHALL BE SEPARATED AS REQUIRED BY TABLE R302.6. OPENINGS IN GARAGE WALLS SHALL COMPLY WITH SECTION R302.5. ATTACHMENT OF GYPSUM BOARD SHALL COMPLY WITH TABLE R1003.3. THE WALL SEPARATION PROVISIONS OF TABLE R302.6 SHALL NOT APPLY TO GARAGE WALLS THAT ARE PERPENDICULAR TO THE ADJACENT DWELLING UNIT WALL.

TABLE R302.6 DWELLING-GARAGE SEPARATION

FROM THE RESIDENCE AND ATTICS: NOT LESS THAN 1/2-INCH GYPSUM BOARD OR EQUIVALENT APPLIED TO THE GARAGE SIDE

FROM HABITABLE ROOMS ABOVE THE GARAGE: NOT LESS THAN 5/8-INCH TYPE X GYPSUM BOARD OR EQUIVALENT

STRUCTURE(S) SUPPORTING FLOOR/CEILING ASSEMBLIES USED FOR SEPARATION REQUIRED BY THIS SECTION: NOT LESS THAN 1/2-INCH GYPSUM BOARD OR EQUIVALENT

GARAGES LOCATED LESS THAN 3 FEET FROM A DWELLING UNIT ON THE SAME LOT: NOT LESS THAN 1/2-INCH GYPSUM BOARD OR EQUIVALENT APPLIED TO THE INTERIOR SIDE OF EXTERIOR WALLS THAT ARE WITHIN THIS AREA

IECC-R404.1 LIGHTING EQUIPMENT (MANDATORY), NOT LESS THAN 75 PERCENT OF THE LAMPS IN PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS OR NOT LESS THAN 75 PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL CONTAIN ONLY HIGH-EFFICACY LAMPS.

UPC 6082 FOR WATER PRESSURE HIGHER THAN 80 PSI AN APPROVED PRESSURE REDUCING VALVE (PRV) SHALL BE INSTALLED.

NOTE:  
While every attempt has been made to assure the accuracy of these drawings, ALL INFORMATION MUST BE VERIFIED prior to ordering any raw materials or fabricated components.

Any structural components specified are for reference only and must be verified with the ENGINEER OF RECORD'S "S-Sheets" and/or (attached) documents

### FLOOR PLAN

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#### AREA SUMMARY

FLOOR AREA ... 1578 SF.  
COVERED PORCH ... 95 SF.  
GARAGE ... 503 SF.  
GLASS AREA ... 154.4 SF.  
GLAZING PERCENTAGE (GL / FL) ... 9.8 %

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

VENTILATION REQUIREMENTS			
1	"PANASONIC" FV-11VK3 110CFM 8 SONES	112 CFM @ .25 WS	110 CFM @ .1 WS
2	"PANASONIC" FV-08VK3 80CFM 4 SONES	78 CFM @ .25 WS	80 CFM @ .1 WS

NOTES: 1. USE PANASONIC FV-11VK3 (100 CFM MIN.) @ ALL KITCHEN & WHOLE HOUSE FAN.  
2. USE PANASONIC FV-08VK3 (50 CFM MIN.) @ ALL OTHER LOCATIONS.  
3. ALL FANS TO VENT DIRECTLY TO OUTSIDE.  
4. ALL OTHER REQUIREMENTS OF WSEC MUST BE MET.

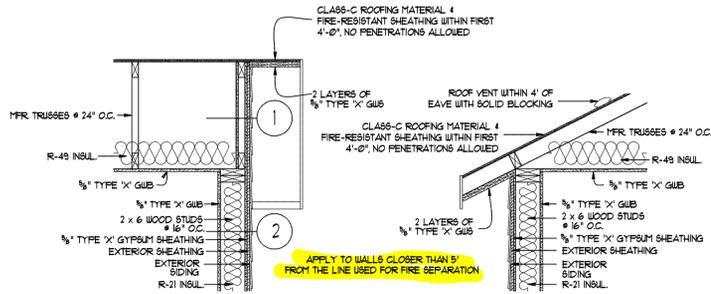
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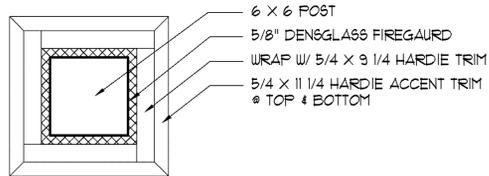
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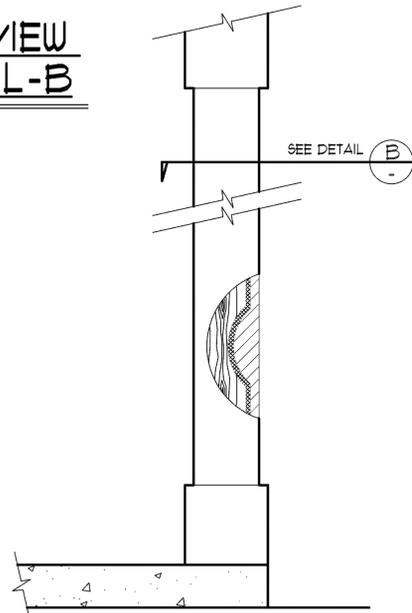
**1-HR FIRE RATED WALL & OVERHANG**

- 1. GA FILE NO. WP 3640. GYPSUM WALLBOARD, WOOD STUDS. ONE HOUR FIRE. THICKNESS: APPROX. WEIGHT: 11 PF (UL 912-34 UL DESIGN U338)
- 2. GA FILE NO. WP 8105. GYPSUM WALLBOARD, GYPSUM SHEATHING, WOOD STUDS. ONE HOUR FIRE. THICKNESS: APPROX. WEIGHT: 11 PF (UL 912-34 UL DESIGN U338)



**1 HR PLAN VIEW POST DETAIL-B**

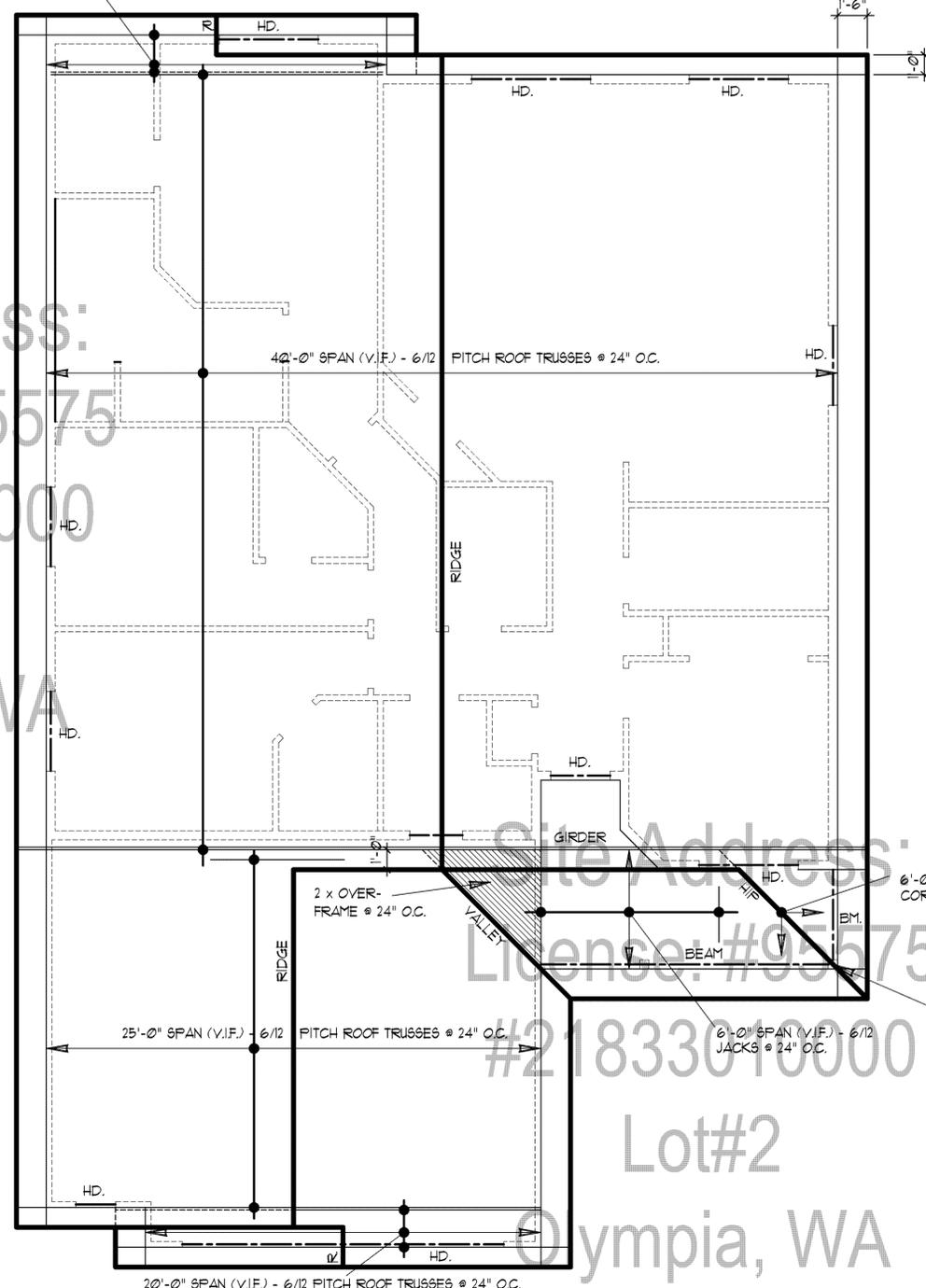
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**1 HR POST DETAIL-A**

N.T.S.

11'-2 1/2" SPAN (V.I.F.) - 6/12 PITCH ROOF TRUSSES @ 24" O.C.



**ROOF FRAMING PLAN**

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ATTIC VENTILATION  
PROVIDE ATTIC SPACE VENTILATION AS PER IRC  
(2)15 SF. Sq. Ft. x 1/150 = 145 Sq. Ft. VENT AREA REQ'D

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

R502.11 DESIGN WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH APPROVED ENGINEERING PRACTICE. THE DESIGN AND MANUFACTURE OF METAL-PLATE-CONNECTED WOOD TRUSSES SHALL COMPLY WITH ANSI/TPI 1. THE TRUSS DESIGN DRAWINGS SHALL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER WHERE REQUIRED BY THE STATUTES OF THE JURISDICTION IN WHICH THE PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH SECTION R106.

R502.12 BRACING, TRUSSES SHALL BE BRACED TO PREVENT ROTATION AND PROVIDE LATERAL STABILITY IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE CONSTRUCTION DOCUMENTS FOR THE BUILDING AND ON THE INDIVIDUAL TRUSS DESIGN DRAWINGS. IN THE ABSENCE OF SPECIFIC BRACING REQUIREMENTS, TRUSSES SHALL BE BRACED IN ACCORDANCE WITH ACCEPTED INDUSTRY PRACTICES, SUCH AS, THE SBCA BUILDING COMPONENT SAFETY INFORMATION (BCSI) GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES.

R502.21 ROOF SLOPES FROM 2 UNITS VERTICAL BY 12 UNITS HORIZONTAL UP TO 4 UNITS VERTICAL BY 12 UNITS HORIZONTAL UNDERLAYMENT SHALL BE 2 LAYERS OVERLAPPING 18 INCHES. FOR SLOPES OF 4 UNITS VERTICAL BY 12 UNITS HORIZONTAL OR GREATER, UNDERLAYMENT SHALL BE 1 LAYER OVERLAPPING 2 INCHES.

RAFTERS: R202.3 FRAMING DETAILS. RAFTERS SHALL BE FRAMED NOT MORE THAN 11/2-INCHES (38 MM) OFFSET FROM EACH OTHER TO RIDGE BOARD OR DIRECTLY OPPOSITE FROM EACH OTHER WITH A GUSSET PLATE AS A TIE. RIDGE BOARD SHALL BE NOT LESS THAN 1-INCH (25 MM) NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER AT VALLEYS AND HIPS. THERE SHALL BE A VALLEY OR HIP RAFTER NOT LESS THAN 2-INCH (51 MM) NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. HIP AND VALLEY RAFTERS SHALL BE SUPPORTED AT THE RIDGE BY A BRACE TO A BEARING PARTITION OR BE DESIGNED TO CARRY AND DISTRIBUTE THE SPECIFIC LOAD AT THAT POINT, WHERE THE ROOF PITCH IS LESS THAN THREE UNITS VERTICAL IN 12 UNITS HORIZONTAL (25-PERCENT SLOPE). STRUCTURAL MEMBERS THAT SUPPORT RAFTERS AND CEILING JOISTS, SUCH AS RIDGE BEAMS, HIPS AND VALLEYS, SHALL BE DESIGNED AS BEAMS.

RAFTER OPENINGS: IRC R802.9 OPENINGS IN ROOF & CEILING FRAMING SHALL BE FRAMED WITH HEADER & TRIMMER JOISTS. WHEN THE HEADER JOIST SPAN DOES NOT EXCEED 4', THE HEADER JOIST MAY BE A SINGLE MEMBER THE SAME SIZE AS THE CEILING JOIST OR RAFTER WHEN THE HEADER JOIST SPAN EXCEEDS 4'; THE TRIMMER JOIST AND HEADER JOIST SHALL BE DOUBLED AND OF SUFFICIENT CROSS SECTION TO SUPPORT THE CEILING JOISTS OR RAFTER FRAMING INTO THE HEADER.

R202.21 LOCATIONS. FLASHINGS SHALL BE INSTALLED AT WALL AND ROOF INTERSECTIONS, WHEREVER THERE IS A CHANGE IN ROOF SLOPE OR DIRECTION AND AROUND ROOF OPENINGS. A FLASHING SHALL BE INSTALLED TO DIVERT THE WATER AWAY FROM WHERE THE EAVE OF A SLOPED ROOF INTERSECTS A VERTICAL SIDEWALL. WHERE FLASHING IS OF METAL, THE METAL SHALL BE CORROSION RESISTANT WITH A THICKNESS OF NOT LESS THAN 0.018 INCH (0.5 MM) (NO. 26 GALVANIZED SHEET).

R103.4 FLASHING. APPROVED CORROSION-RESISTANT FLASHING SHALL BE APPLIED SHINGLE-FASHION IN A MANNER TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS. SELF-ADHERED MEMBRANES USED AS FLASHING SHALL COMPLY WITH AAMA 117. FLUID-APPLIED MEMBRANES USED AS FLASHING IN EXTERIOR WALLS SHALL COMPLY WITH AAMA 117. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH. APPROVED CORROSION-RESISTANT FLASHINGS SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS:

1. EXTERIOR WINDOW AND DOOR OPENINGS. FLASHING AT EXTERIOR WINDOW AND DOOR OPENINGS SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH OR TO THE WATER-RESISTIVE BARRIER COMPLYING WITH SECTION 1032 FOR SUBSEQUENT DRAINAGE. MECHANICALLY ATTACHED FLEXIBLE FLASHINGS SHALL COMPLY WITH AAMA 117. FLASHING AT EXTERIOR WINDOW AND DOOR OPENINGS SHALL BE INSTALLED IN ACCORDANCE WITH ONE OR MORE OF THE FOLLOWING:
  11. THE FENESTRATION MANUFACTURER'S INSTALLATION AND FLASHING INSTRUCTIONS, OR FOR APPLICATIONS NOT ADDRESSED IN THE FENESTRATION MANUFACTURER'S INSTRUCTIONS, IN ACCORDANCE WITH THE FLASHING MANUFACTURER'S INSTRUCTIONS. WHERE FLASHING INSTRUCTIONS OR DETAILS ARE NOT PROVIDED, PAN FLASHING SHALL BE INSTALLED AT THE BILL OF EXTERIOR WINDOW AND DOOR OPENINGS. PAN FLASHINGS SHALL BE SEALED OR SLOPED IN SUCH A MANNER AS TO DIRECT WATER TO THE SURFACE OF THE EXTERIOR WALL FINISH OR TO THE WATER-RESISTIVE BARRIER FOR SUBSEQUENT DRAINAGE. OPENINGS USING PAN FLASHING SHALL INCORPORATE FLASHING OR PROTECTION AT THE HEAD AND SIDES.
  12. IN ACCORDANCE WITH THE FLASHING DESIGN OR METHOD OF A REGISTERED DESIGN PROFESSIONAL.
  13. IN ACCORDANCE WITH OTHER APPROVED METHODS.
2. AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS.
3. UNDER AND AT THE ENDS OF MASONRY, WOOD OR METAL COPINGS AND SILLS.
4. CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM.
5. WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION.
6. AT WALL AND ROOF INTERSECTIONS.
7. AT BUILT-IN GUTTERS.

WEATHER RESISTIVE SHEATHING PAPER: R103.2 WATER-RESISTIVE BARRIER. ONE LAYER OF NO. 15 ASPHALT FELT, FREE FROM HOLES AND BREAKS, COMPLYING WITH ASTM D 226 FOR TYPE I FELT OR OTHER APPROVED WATER-RESISTIVE BARRIER SHALL BE APPLIED OVER STUDS OR SHEATHING OF ALL EXTERIOR WALLS. SUCH FELT OR MATERIAL SHALL BE APPLIED HORIZONTALLY, WITH THE UPPER LAYER LAPPED OVER THE LOWER LAYER NOT LESS THAN 2 INCHES (51 MM). WHERE JOINTS OCCUR, FELT SHALL BE LAPPED NOT LESS THAN 6 INCHES (152 MM). THE FELT OR OTHER APPROVED MATERIAL SHALL BE CONTINUOUS TO THE TOP OF WALLS AND TERMINATED AT PENETRATIONS AND BUILDING APPENDAGES IN A MANNER TO MEET THE REQUIREMENTS OF THE EXTERIOR WALL ENVELOPE AS DESCRIBED IN SECTION R103.1. THE WATER-RESISTIVE BARRIER IS NOT REQUIRED FOR DETACHED ACCESSORY BUILDINGS.

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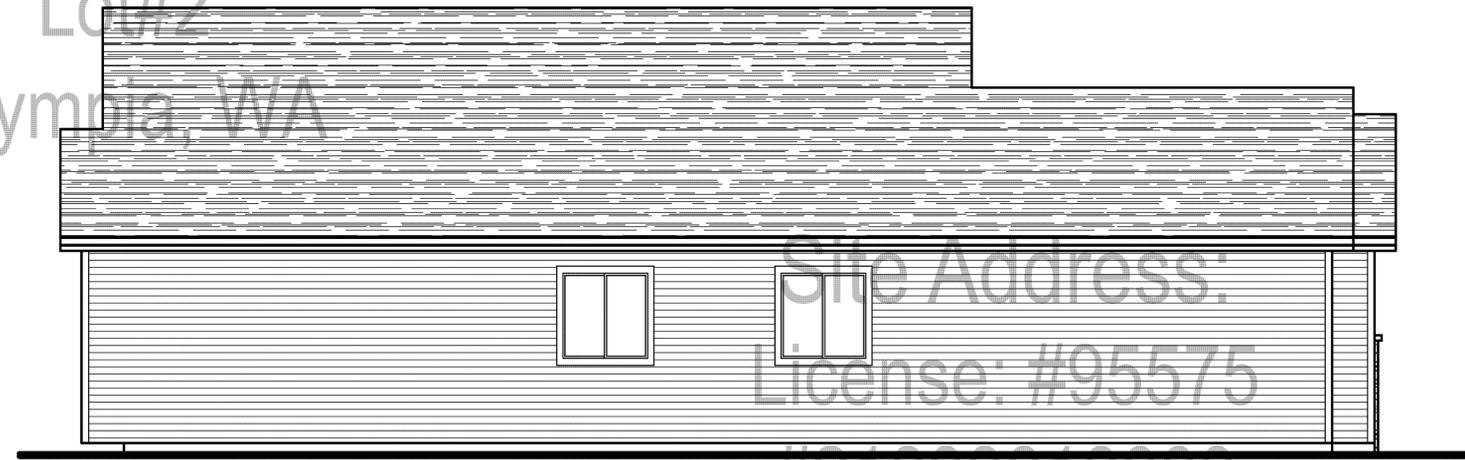
- 1 x 2 TRIM ON 5/4 x 8 BARGE BD.
- 5/4 x 10 FRIEZE BD.
- SHINGLE SIDING
- COMPOSITION ROOFING
- CONT. METAL GUTTER ON 5/4 x 8 FASCIA BD. TYP.
- 5/4 x 6
- HARDBOARD LAP SIDING
- P.T. 6 x 6 STONE VENEER BASE 4 w/ 3" CONC. CAP
- 2 x 4 ATOP 5/4 x 4

APPROVED PER NOTES ON PLAN  
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**EXPLANATION OF HEIGHT**

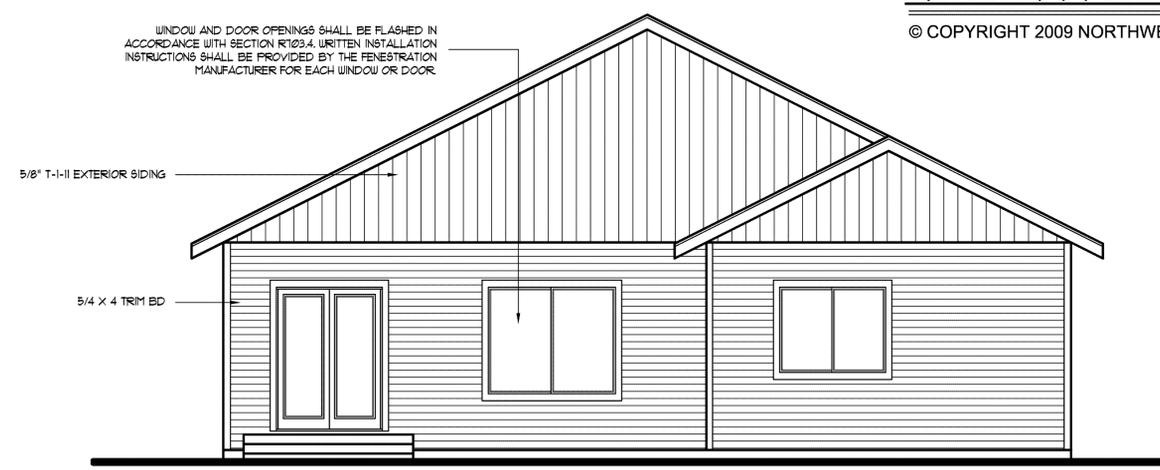
OVERALL HEIGHT - "X": 20'-11 3/8"  
 LOUDEST TRUSS POINT - "Y": 10'-2 3/8"  
 20'-11 3/8" (X) - 10'-2 3/8" (Y) = 10'-9" (Z)  
 10'-9" (Z) / 2 = 5'-4 1/4"  
 10'-2 3/8" (Y) + 5'-4 1/4" = 15'-6 7/8"  
 AVERAGE HEIGHT = 15'-6 7/8"

**FRONT ELEVATION**  
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**FRONT ELEVATION**  
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WINDOW AND DOOR OPENINGS SHALL BE FLASHED IN ACCORDANCE WITH SECTION R103.4. WRITTEN INSTALLATION INSTRUCTIONS SHALL BE PROVIDED BY THE FENESTRATION MANUFACTURER FOR EACH WINDOW OR DOOR.



**REAR ELEVATION**  
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R313 LOCATION SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:  
 1. IN EACH SLEEPING ROOM.  
 2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS.  
 3. ON EACH ADDITIONAL STORY OF THE DWELLING, INCLUDING BASEMENTS AND HABITABLE ATTICS AND NOT INCLUDING CRAWL SPACES AND UNINHABITABLE ATTICS, IN DWELLINGS OR DWELLING UNITS WITH SPLIT LEVELS AND WITHOUT AN INTERVENING DOOR BETWEEN THE ADJACENT LEVELS. A SMOKE ALARM INSTALLED ON THE UPPER LEVEL SHALL SUFFICE FOR THE ADJACENT LOWER LEVEL PROVIDED THAT THE LOWER LEVEL IS LESS THAN ONE FULL STORY BELOW THE UPPER LEVEL.  
 4. SMOKE ALARMS SHALL BE INSTALLED NOT LESS THAN 3 FEET (914 MM) HORIZONTALLY FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER UNLESS THIS WOULD PREVENT PLACEMENT OF A SMOKE ALARM REQUIRED BY THIS SECTION.

R313.3 CARBON MONOXIDE ALARMS IN DWELLING UNITS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS WHERE A FUEL-BURNING APPLIANCE IS LOCATED WITHIN A BEDROOM OR ITS ATTACHED BATHROOM. A CARBON MONOXIDE ALARM SHALL BE INSTALLED WITHIN THE BEDROOM.  
 R313.4 COMBINATION CARBON MONOXIDE AND SMOKE ALARMS SHALL BE PERMITTED TO BE USED IN LIEU OF CARBON MONOXIDE ALARMS.

LIGHT & VENTILATION: R303 HABITABLE ROOMS, HABITABLE ROOMS SHALL HAVE AN AGGREGATE AREA OF NOT LESS THAN 8 PERCENT OF THE FLOOR AREA OF SUCH ROOMS. NATURAL VENTILATION SHALL BE THROUGH WINDOWS, SKYLIGHTS, DOORS, LOUVERS OR OTHER APPROVED OPENINGS TO THE OUTDOOR AIR. SUCH OPENINGS SHALL BE PROVIDED WITH READY ACCESS OR SHALL OTHERWISE BE READILY CONTROLLABLE BY THE BUILDING OCCUPANTS. THE OPENABLE AREA TO THE OUTDOORS SHALL BE NOT LESS THAN 4 PERCENT OF THE FLOOR AREA BEING VENTILATED.

EGRESS WINDOWS: R310.2 MINIMUM OPENING AREA EMERGENCY AND ESCAPE RESCUE OPENINGS SHALL HAVE A NET CLEAR OPENING OF NOT LESS THAN 5.7 SQUARE FEET (530 MM). THE NET CLEAR OPENING DIMENSIONS REQUIRED BY THIS SECTION SHALL BE OBTAINED BY THE NORMAL OPERATION OF THE EMERGENCY ESCAPE AND RESCUE OPENING FROM THE INSIDE. THE NET CLEAR HEIGHT OPENING SHALL BE NOT LESS THAN 24 INCHES (610 MM) AND THE NET CLEAR WIDTH SHALL BE NOT LESS THAN 20 INCHES (508 MM).

WINDOW SILLS: R312.2 WINDOW SILLS, IN DWELLING UNITS, WHERE THE TOP OF THE SILL OF AN OPERABLE WINDOW OPENING IS LOCATED LESS THAN 24 INCHES (610 MM) ABOVE THE FINISHED FLOOR AND GREATER THAN 12 INCHES (305 MM) ABOVE THE FINISHED GRADE OR OTHER SURFACE BELOW ON THE EXTERIOR OF THE BUILDING, THE OPERABLE WINDOW SHALL COMPLY WITH ONE OF THE FOLLOWING:  
 1. OPERABLE WINDOW OPENINGS WILL NOT ALLOW A 4-INCH DIAMETER (102 MM) SPHERE TO PASS THROUGH WHERE THE OPENINGS ARE IN THEIR LARGEST OPENED POSITION.  
 2. OPERABLE WINDOWS ARE PROVIDED WITH WINDOW FALL PREVENTION DEVICES THAT COMPLY WITH ASTM F2090.  
 3. OPERABLE WINDOWS ARE PROVIDED WITH WINDOW OPENING CONTROL DEVICES THAT COMPLY WITH SECTION R312.2.

HATCHES AND DOORS: N1022.4 (R4022.4) ACCESS HATCHES AND DOORS, ACCESS DOORS FROM CONDITIONED SPACES TO UNCONDITIONED SPACES SUCH AS ATTICS AND CRAWL SPACES SHALL BE WEATHERSTRIPPED AND INSULATED TO A LEVEL EQUIVALENT TO THE INSULATION ON THE SURROUNDING SURFACES. ACCESS THAT PREVENTS DAMAGING OR COMPRESSING THE INSULATION SHALL BE PROVIDED TO ALL EQUIPMENT WHERE LOOSE-FILL INSULATION IS INSTALLED. A WOODFRAMED OR EQUIVALENT Baffle OR RETAINER SHALL BE INSTALLED TO PREVENT THE LOOSE-FILL INSULATION FROM SPILLING INTO THE LIVING SPACE WHEN THE ATTIC ACCESS IS OPENED. THE Baffle OR RETAINER SHALL PROVIDE A PERMANENT MEANS OF MAINTAINING THE INSTALLED R-VALUE OF THE LOOSE-FILL INSULATION.

R507.2 BATHTUB AND SHOWER SPACES BATHTUB AND SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH A NONABSORBENT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO A HEIGHT OF NOT LESS THAN 6 FEET (1829 MM) ABOVE THE FLOOR.

SHOWER AREAS: R307.1 SHOWERS SHALL BE A MINIMUM SIZE OF 30" BY 30" WITH A 24" IN CLEARANCE IN FRONT OF OPENING.

WATER CLOSET CLEARANCES: IRC R307.1 WATER CLOSET SHALL BE LOCATED IN A CLEAR SPACE NOT LESS THAN 30" IN WIDTH. THE CLEAR SPACE IN FRONT SHALL NOT BE LESS THAN 21".

WATERPROOF WALL BOARD: ALL WALLS AND CEILINGS OF BATH TUB AND SHOWER ENCLOSURE AREAS SHALL BE COVERED WITH APPROVED WATERPROOF MATERIAL.

UTILITY ROOM WALL BOARD: ALL SURFACES IMMEDIATELY ADJACENT TO WASHERS, DRYERS, AND LAUNDRY TUBS SHALL BE SURFACED WITH APPROVED WATERPROOF MATERIAL.

GYPSON WALLBOARD: R702.3.1 WATER-RESISTANT GYPSON BACKING BOARD, GYPSON BOARD USED AS THE BASE OR BACKER FOR ADHESIVE APPLICATION OF CERAMIC TILE OR OTHER REQUIRED NONABSORBENT FINISH MATERIAL SHALL CONFORM TO ASTM C110, C1278 OR C1396. USE OF WATER-RESISTANT GYPSON BACKING BOARD SHALL BE PERMITTED ON CEILINGS.  
 WATER-RESISTANT GYPSON BOARD SHALL NOT BE INSTALLED OVER A CLASS 1 OR 2 VAPOR RETARDER IN A SHOWER OR TUB COMPARTMENT. CUT OR EXPOSED EDGES, INCLUDING THOSE AT WALL INTERSECTIONS, SHALL BE SEALED AS RECOMMENDED BY THE MANUFACTURER.

R702.3.1 LIMITATIONS. WATER-RESISTANT GYPSON BACKING BOARD SHALL NOT BE USED WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY.

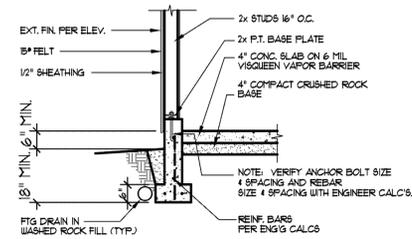
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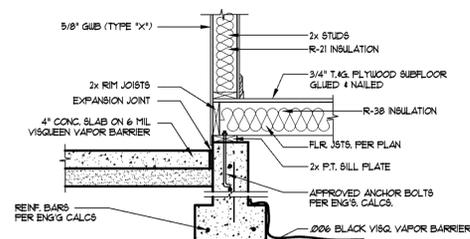


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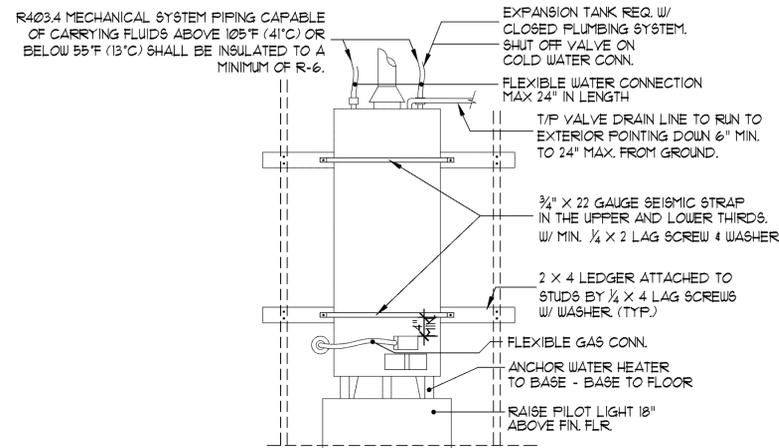
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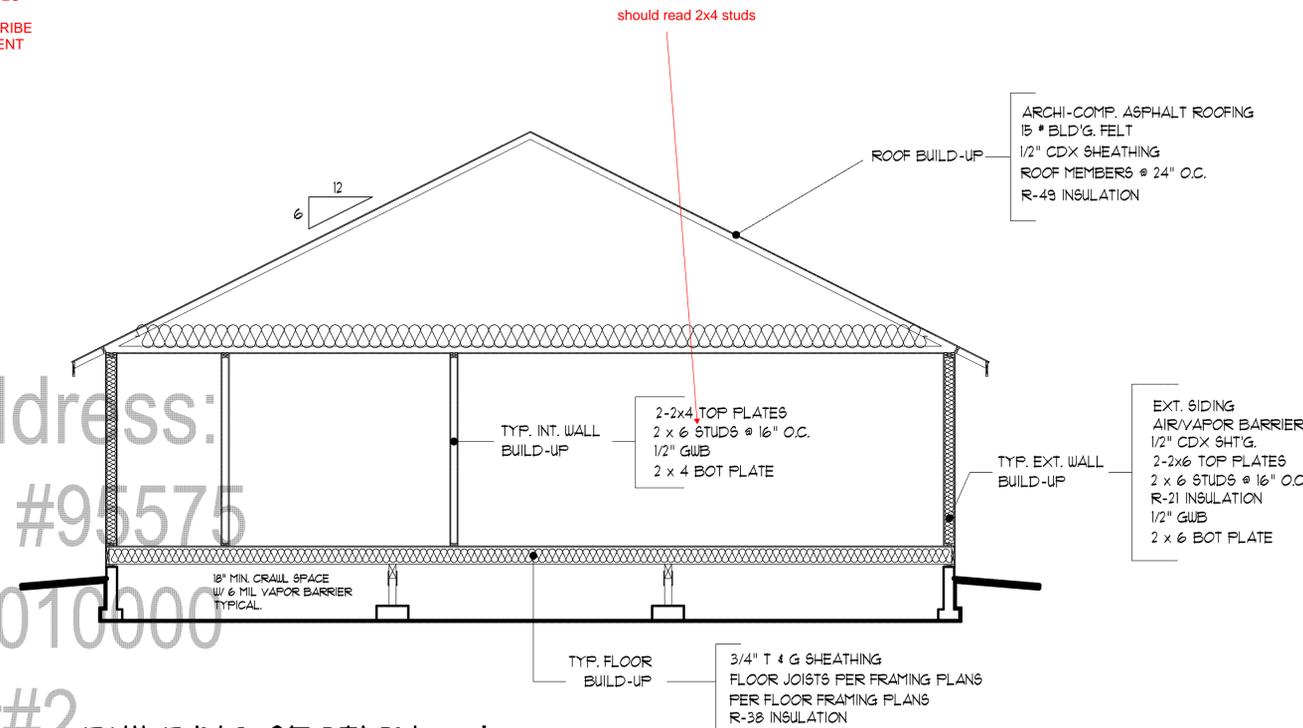
**STEM WALL DETAIL (B)**  
SCALE: 1/2" = 1'-0"



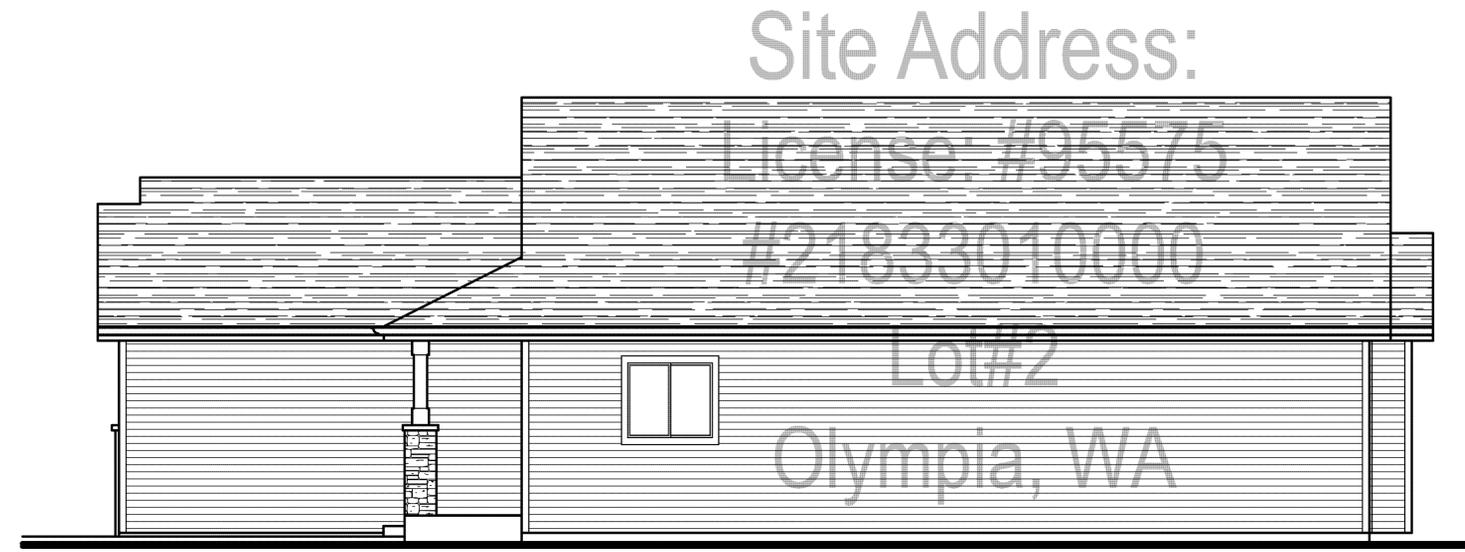
**AREA SEP. DETAIL (C)**  
SCALE: 1/2" = 1'-0"



**WATER HEATER SUPPORT (D)**  
(WSEC R403.5.5) ALL ELECTRIC WATER HEATERS IN UNHEATED SPACES OR ON CONCRETE FLOORS SHALL BE PLACED ON AN INSULATED SURFACE WITH A MIN. THERMAL RESISTANCE OF R-10 AND A MINIMUM COMPRESSIVE STRENGTH OF 40 PSI.



**BUILDING SECTION - A**  
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**RIGHT ELEVATION**  
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NOTE: THE PRESCRIPTIVE PATH METHOD OF THE IRC WAS NOT FOLLOWED IN THE DESIGN OF THIS RESIDENCE. ALL LATERAL AND GRAVITY DESIGN SOLUTIONS SHALL BE PROVIDED BY THE ENGINEER OF RECORD.

WOOD IN CONTACT WITH CONCRETE AND MASONRY: IRC 311.3.3) SILL AND SLEEPERS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH THE GROUND UNLESS SEPARATED FROM SUCH SLAB BY AN IMPERVIOUS MOISTURE BARRIER.

R311.4 WOOD COLUMNS: WOOD COLUMNS SHALL BE APPROVED WOOD OF NATURAL DECAY RESISTANCE OR APPROVED PRESSURE-PRESERVATIVE-TREATED WOOD.

EXCEPTIONS:  
1. COLUMNS EXPOSED TO THE WEATHER OR IN BASEMENTS WHERE SUPPORTED BY CONCRETE PIERS OR METAL PEDESTALS PROJECTING 1 INCH (25 MM) ABOVE A CONCRETE FLOOR OR 6 INCHES (152 MM) ABOVE EXPOSED EARTH AND THE EARTH IS COVERED BY AN APPROVED IMPERVIOUS MOISTURE BARRIER.  
2. COLUMNS IN ENCLOSED CRAWL SPACES OR UNEXCAVATED AREAS LOCATED WITHIN THE PERIPHERY OF THE BUILDING WHERE SUPPORTED BY A CONCRETE PIER OR METAL PEDESTAL AT A HEIGHT MORE THAN 8 INCHES (203 MM) FROM EXPOSED EARTH AND THE EARTH IS COVERED BY AN IMPERVIOUS MOISTURE BARRIER.  
3. DECK POSTS SUPPORTED BY CONCRETE PIERS OR METAL PEDESTALS PROJECTING NOT LESS THAN 1 INCH (25 MM) ABOVE A CONCRETE FLOOR OR 6 INCHES (152 MM) ABOVE EXPOSED EARTH.

FLOOR FRAMING: R502.6 BEARING: THE ENDS OF EACH JOIST, BEAM OR GIRDER SHALL HAVE NOT LESS THAN 1 1/2 INCHES (38 MM) OF BEARING ON WOOD OR METAL, HAVE NOT LESS THAN 3 INCHES OF BEARING (76 MM) ON MASONRY OR CONCRETE OR BE SUPPORTED BY APPROVED JOIST HANGERS. ALTERNATIVELY, THE ENDS OF JOISTS SHALL BE SUPPORTED ON A 1-INCH BY 4-INCH (25 MM BY 102 MM) RIBBON STRIP AND SHALL BE NAILED TO THE ADJACENT STUD. THE BEARING ON MASONRY OR CONCRETE SHALL BE DIRECT, OR A SILL PLATE OR 2-INCH-MINIMUM (51 MM) NOMINAL THICKNESS SHALL BE PROVIDED UNDER THE JOIST, BEAM OR GIRDER. THE SILL PLATE SHALL PROVIDE A MINIMUM NOMINAL BEARING AREA OF 48 SQUARE INCHES (30865 MM<sup>2</sup>).

BEARING PARTITIONS: R502.4 JOISTS UNDER BEARING PARTITIONS: JOISTS UNDER PARALLEL BEARING PARTITIONS SHALL BE OF ADEQUATE SIZE TO SUPPORT THE LOAD. DOUBLE JOISTS, SIZED TO ADEQUATELY SUPPORT THE LOAD, THAT ARE SEPARATED TO PERMIT THE INSTALLATION OF FINISH OR VENTS SHALL BE FULL-DEPTH SOLID BLOCKED WITH LUMBER NOT LESS THAN 2 INCHES (51 MM) IN NOMINAL THICKNESS SPACED NOT MORE THAN 4 FEET (1219 MM) ON CENTER. BEARING PARTITIONS PERPENDICULAR TO JOISTS SHALL NOT BE OFFSET FROM SUPPORTING GIRDERS. WALLS OR PARTITIONS MORE THAN THE JOIST DEPTH UNLESS SUCH JOISTS ARE OF SUFFICIENT SIZE TO CARRY THE ADDITIONAL LOAD.

WALL FRAMING: R602.3.2 TOP PLATE: WOOD STUD WALLS SHALL BE CAPPED WITH A DOUBLE TOP PLATE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTIONS WITH BEARING PARTITIONS. END JOINTS IN TOP PLATES SHALL BE OFFSET NOT LESS THAN 24 INCHES (610 MM). JOINTS IN PLATES NEED NOT OCCUR OVER STUDS. PLATES SHALL BE NOT LESS THAN 2-INCHES (51 MM) NOMINAL THICKNESS AND HAVE A WIDTH NOT LESS THAN THE WIDTH OF THE STUDS.

HEADERS: R502.10 FRAMING OF OPENINGS: OPENINGS IN FLOOR FRAMING SHALL BE FRAMED WITH HEADER AND TRIMMER JOISTS. WHERE THE HEADER JOIST SPAN DOES NOT EXCEED 4 FEET (1219 MM), THE HEADER JOIST SHALL BE A SINGLE MEMBER THE SAME SIZE AS THE FLOOR JOIST. SINGLE TRIMMER JOISTS SHALL BE USED TO CARRY A SINGLE HEADER JOIST THAT IS LOCATED WITHIN 3 FEET (914 MM) OF THE TRIMMER JOIST BEARING. WHERE THE HEADER JOIST SPAN EXCEEDS 4 FEET (1219 MM), THE TRIMMER JOISTS AND THE HEADER JOIST SHALL BE DOUBLED AND OF SUFFICIENT CROSS SECTION TO SUPPORT THE FLOOR JOISTS FRAMING INTO THE HEADER.

STRUCTURAL PROPERTIES FOR HORIZONTAL MEMBERS: THE PRESCRIPTIVE PATH METHOD OF THE IRC WAS NOT FOLLOWED IN THE DESIGN OF THIS RESIDENCE. ALL LATERAL AND GRAVITY DESIGN SOLUTIONS SHALL BE PROVIDED BY THE ENGINEER OF RECORD.

R312.12 HEIGHT, REQUIRED GUARDS AT OPEN-SIDED WALKING SURFACES, INCLUDING STAIRS, PORCHES, BALCONIES OR LANDINGS, SHALL BE NOT LESS THAN 36 INCHES (914 MM) IN HEIGHT AS MEASURED VERTICALLY ABOVE THE ADJACENT WALKING SURFACE OR THE LINE CONNECTING THE NOSINGS.

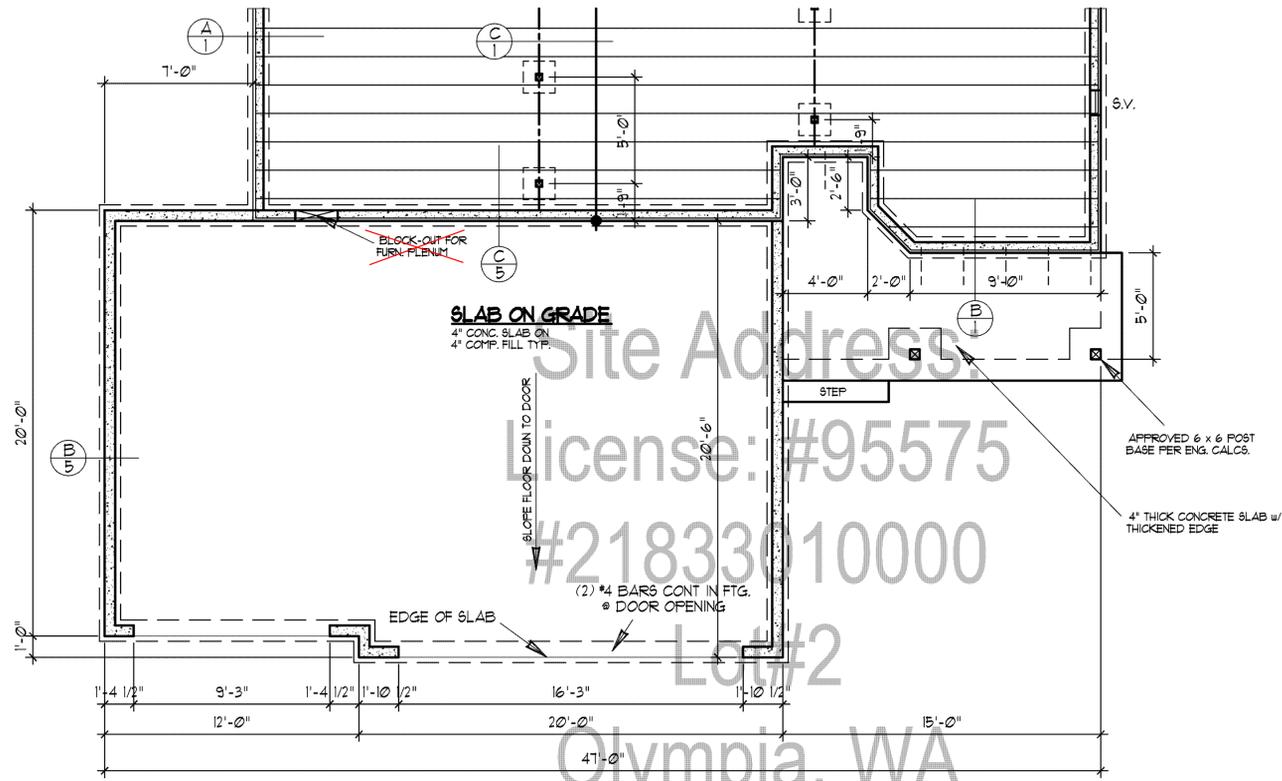
R312.13 OPENING LIMITATIONS, REQUIRED GUARDS SHALL NOT HAVE OPENINGS FROM THE WALKING SURFACE TO THE REQUIRED GUARD HEIGHT THAT ALLOW PASSAGE OF A SPHERE 4 INCHES (102 MM) IN DIAMETER.

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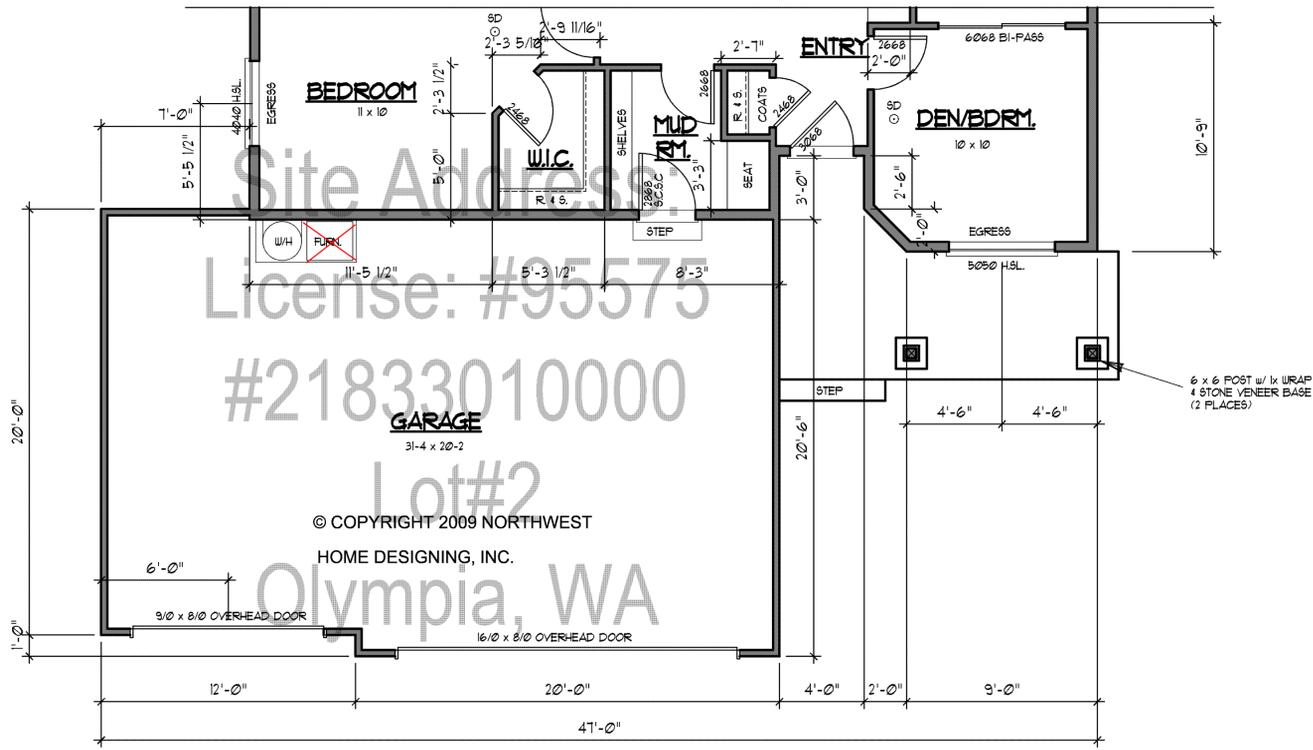


**FOUNDATION & FLOOR FRAMING PLAN (3 CAR OPTION)**

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

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**FLOOR PLAN (3 CAR OPTION)**

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

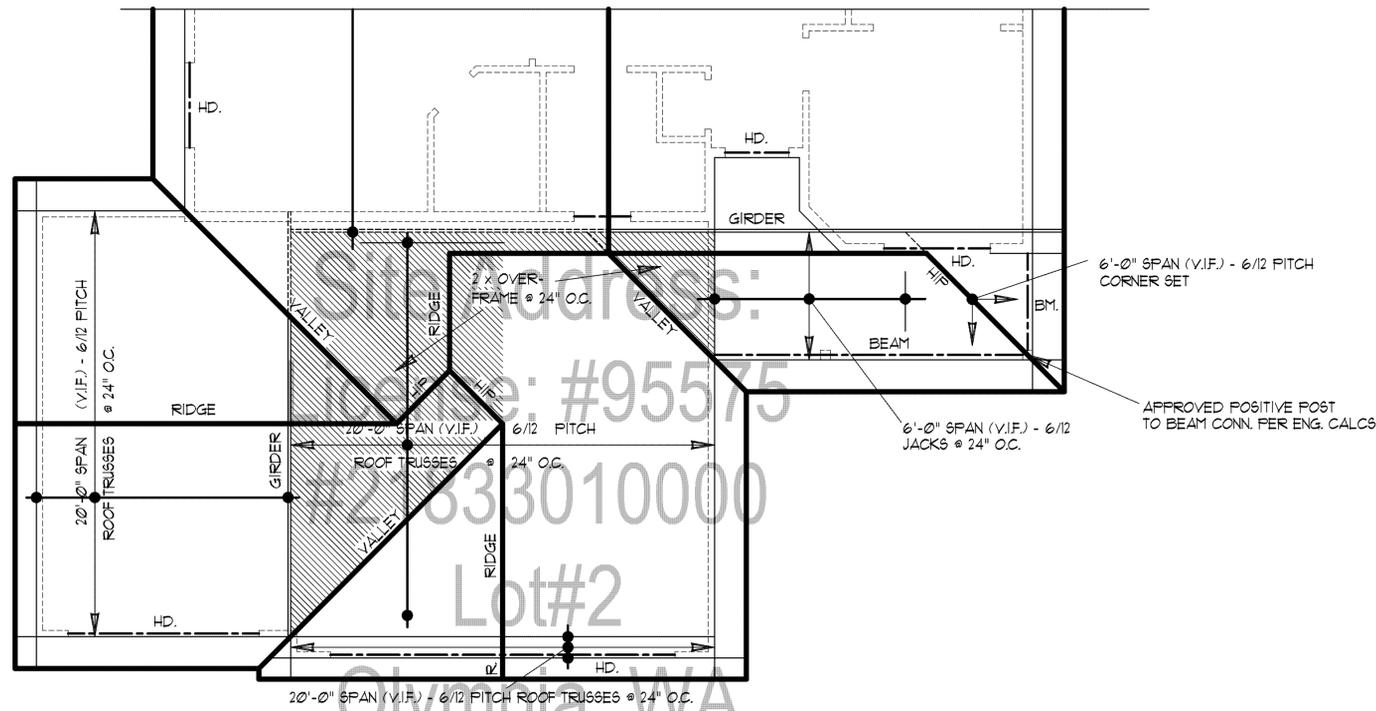
**AREA SUMMARY**  
 FLOOR AREA - 1518 SF.  
 COYD PORCH - 95 SF.  
 GARAGE - 643 SF.  
 GLASS AREA: 154.4 Sq. Ft.  
 GLAZING PERCENTAGE (GL / FL) - 9.8 %

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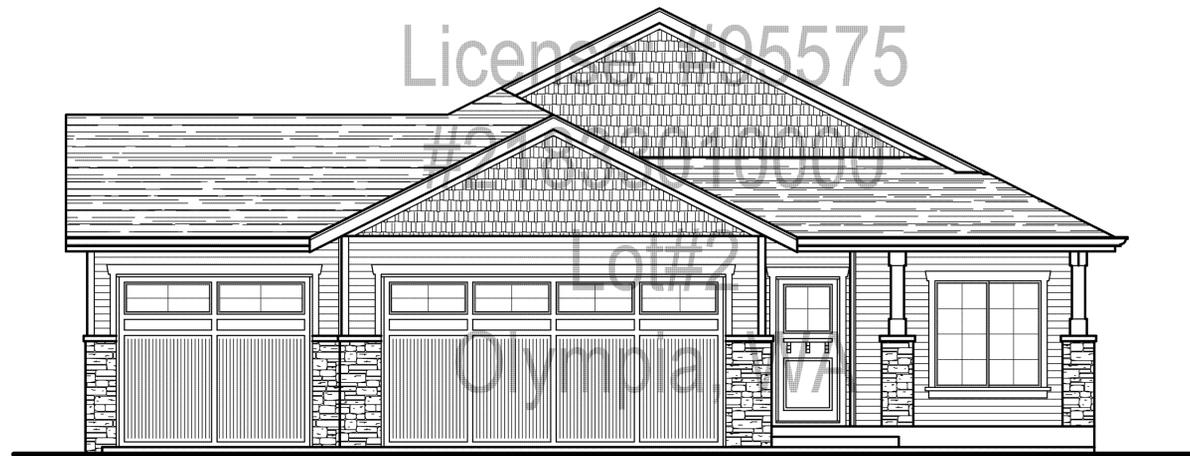


APPROVED PER NOTES  
ON PLAN  
NISQUALLY INDIAN TRIBE  
BUILDING DEPARTMENT

**ROOF FRAMING PLAN 3RD CAR OPTION**

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ATTIC VENTILATION  
PROVIDE ATTIC SPACE VENTILATION AS PER IRC  
(2280 Sq. Ft. x 1/150 = 152 Sq. Ft. VENT AREA REQ'D)

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



**FRONT ELEVATION 3RD CAR ELEVATION**

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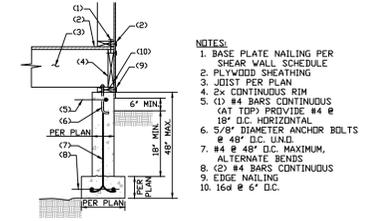
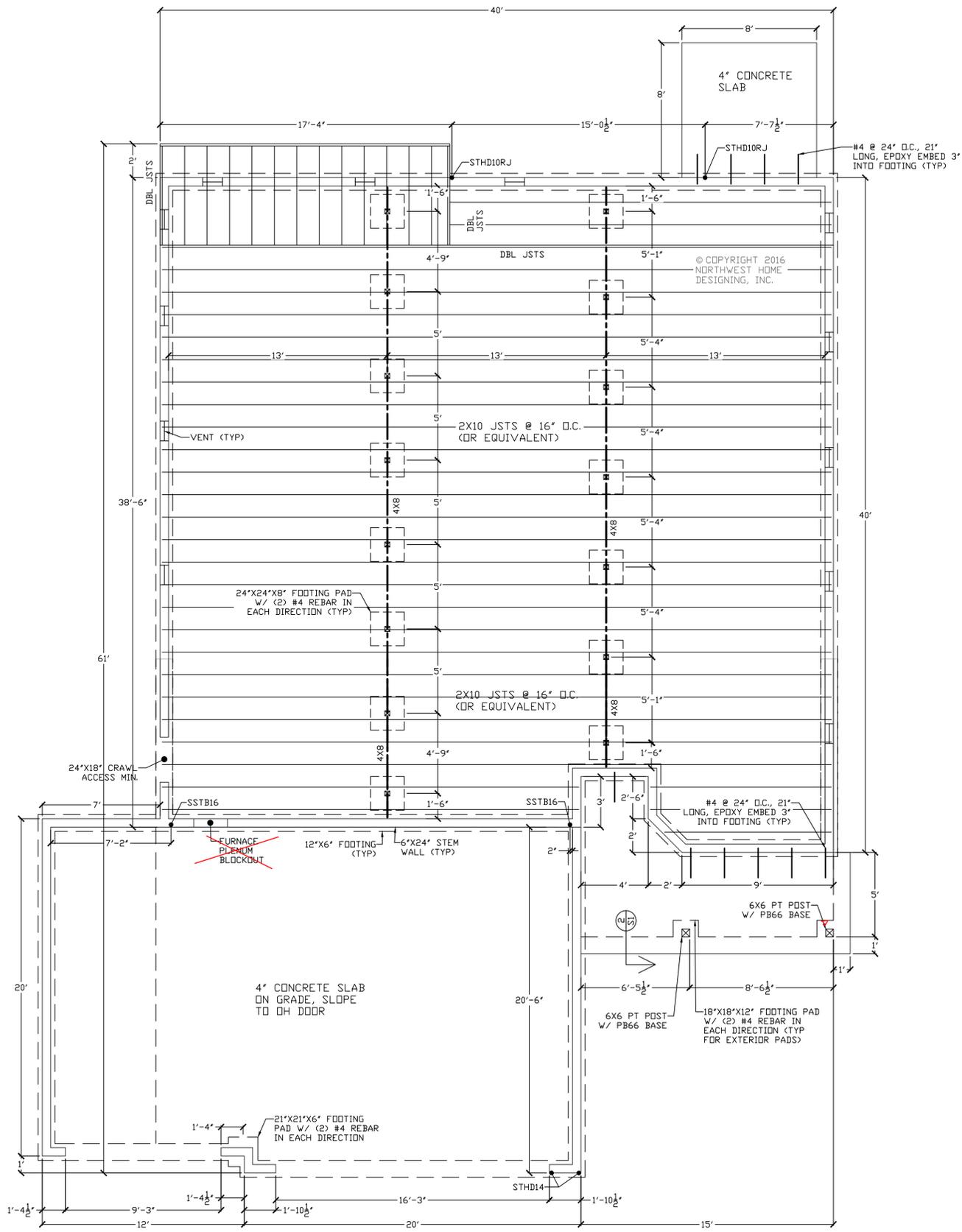
SCALE : 1/4" = 1'-0"

**NOTE:**  
While every attempt has been made to assure the accuracy of these drawings, ALL INFORMATION MUST BE VERIFIED prior to ordering any raw materials or fabricated components.  
Any structural components specified are for reference only and must be verified with the ENGINEER OF RECORD's "S-Sheets" and/or (attached) documents

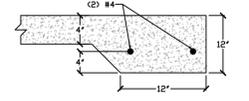
**NORTHWEST HOME DESIGNING, INC.**  
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NHD  
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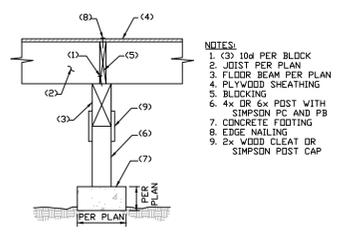




1 TYPICAL FOUNDATION STEM WALL  
NOT TO SCALE



2 THICKENED EDGE SLAB



3 TYPICAL INT. SPREAD FOOTING  
NOT TO SCALE

APPROVED PER NOTES  
ON PLAN  
NISQUALLY INDIAN TRIBE  
BUILDING DEPARTMENT

**FOUNDATION PLAN**

- NOTES:  
 1/4" = 1'-0"  
 • ALL SAWN LUMBER BEAMS SHALL BE HF #2 MIN.

NO.	DATE	BY	REVISIONS		
			DESCRIPTION	DESIGNED	CHECKED
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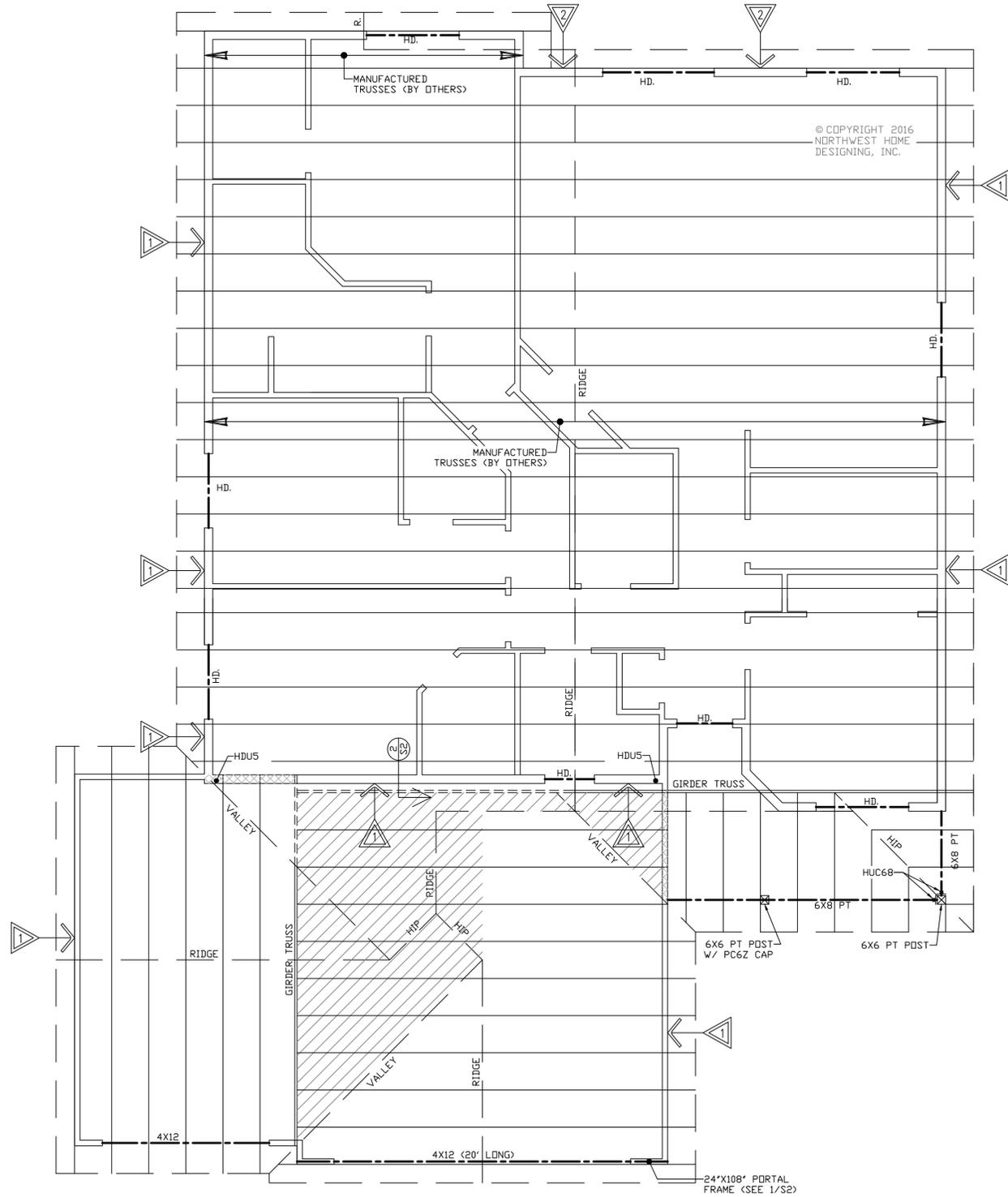
FOR:  
**Nisqually Indian Tribe**  
 11500 25th Ave S.  
 Olympia, WA 98513

**NHD AJ-532-A**  
 Parcel #21833010000



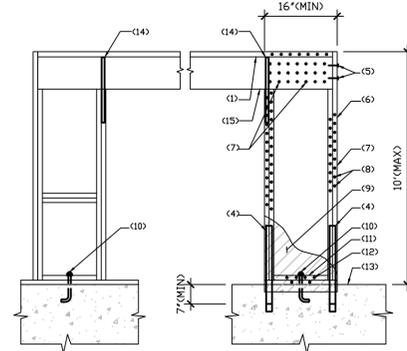
**N.L. Olson & Associates, Inc.**  
 Engineering, Planning and Surveying  
 (360) 895-2350 or (360) 876-2284  
 2453 Bethel Avenue, P.O. Box 657, Port Orchard, WA 98366

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DATE:	Jan. 2024
DRAWING NUMBER:	12907-23
SHEET:	51



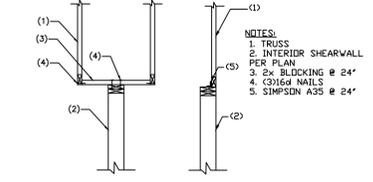
**ROOF FRAMING PLAN**

- NOTES:
- ALL SAWN LUMBER BEAMS SHALL BE HF #2 MIN.
  - ALL HEADERS SHALL BE 4X8 U.N.D.
  - ALL COLUMNS SHALL BE (2) 2X STUDS U.N.D.
  - OVERFRAMING SHALL BE 2X6 JSTS FOR SPANS UNDER 10'-0"; OTHERWISE USE 2X8 JSTS
- 1/4" = 1'-0"
- ▨ = OVERFRAMING    ▩ = BEARING WALL



1 GARAGE PORTAL FRAME

- NOTES:
- 2x TOP PLATE
  - CONTINUE HEADER TO END STUD
  - 8d # 3" D.C. EACH WAY DN HEADER
  - SIMPSON STD14 - INSTALL PER MANUFACTURER'S RECOMMENDATIONS
  - (2) 2X STUDS TO HEADER
  - CORNER END STUD AS OCCURS
  - (2) 2X STUDS OR 4X POST
  - 8d # 3" D.C. ALL PLATES, HEADERS AND STUDS
  - 1/2" NOMINAL APA RATED SHEATHING PER PLAN
  - 5/8" ANCHOR BOLTS - EMBED 7" MINIMUM WITH 3"x3"x1/4" PLATE WASHER
  - (2) 2x PLATES - NAIL SHEATHING TO EACH PLATE
  - 8d # 3" D.C. INTO EACH PLATE
  - TOP OF CONCRETE
  - LST24 ACROSS HEADER
  - HEADER
- NOTES:
- A. ALL STUDS TO BE DOUGLAS FIR #2 IN LATERAL RESTRAINT PANELS.



2 TRUSS TO INT. SHEARWALL

- NOTES:
- TRUSS
  - INTERIOR SHEARWALL PER PLAN
  - 2x BLOCKING @ 24"
  - 3"x3"x1/4" NAILS
  - SIMPSON A35 @ 24"

APPROVED PER NOTES ON PLAN  
NISQUALLY INDIAN TRIBE BUILDING DEPARTMENT

NO	DATE	BY	DESCRIPTION	DESIGNED	DATE	BY
				NH	6/16	
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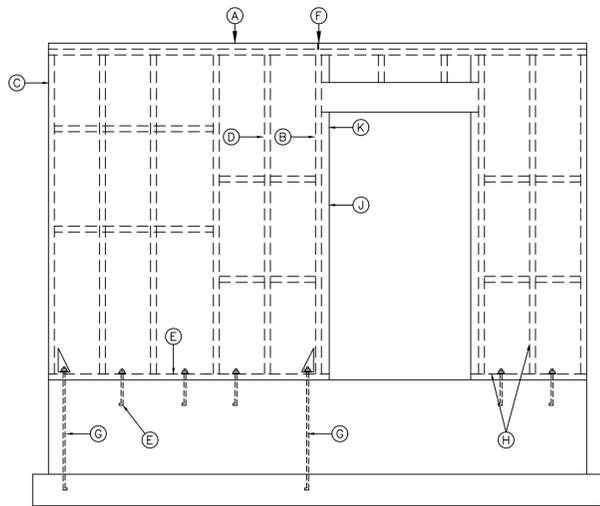
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Parcel #21833010000



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- (A) DOUBLE TOP PLATE w/ EDGE NAILING (STAGGER) (F) TOP PLATE SPLICE AND NAILING PER PLANS. SEE SHEARWALL SCHEDULE FOR LUMBER GRADE). LAP 4'-0" MINIMUM. CENTER SPLICE ON STUD.
- (B) EDGE NAILING AT ALL PANEL EDGES. BACK w/ 2x BLOCKING OR BACKING (G) HOLDOWN PER SCHEDULE AND PLAN
- (C) EDGE NAILING TO HOLDOWN POST (FULL HEIGHT) (H) COORDINATE ALL STUD AND PLATE SIZES w/ SHEARWALL SCHEDULE REQUIREMENTS
- (D) STUDS @ 16" o.c. (I) EDGE NAILING TO POSTS. TRIM STUDS AND KING STUDS
- (E) P.T. SILL PLATE w/ EDGE NAILING & ANCHOR BOLTS PER SHEARWALL SCHEDULE (PROVIDE A MINIMUM OF 5/8" DIA. ANCHOR BOLTS @ 48" o.c.) (J) BEARING STUD FOR HEADER

TYPICAL WOOD SHEARWALL ELEVATION  
NTS

SHEARWALL SCHEDULE					
MARK	MINIMUM SHEATHING	EDGE NAILING	FIELD NAILING	SILL PLATE NAILING	SILL PLATE CONN. @ FND.
▲	7/16" OSB ONE FACE	8d @ 6" o.c.	8d @ 12" o.c.	(2) 16d @ 16" o/c	5/8" dia. @ 48" o.c. w/ 2x BTM. PLATE
▲	7/16" OSB ONE FACE	8d @ 4" o.c.	8d @ 12" o.c.	(2) 16d @ 12" o/c	5/8" dia. @ 36" o.c. w/ 2x BTM. PLATE
▲	7/16" OSB ONE FACE	8d @ 3" o.c.	8d @ 12" o.c.	(2) 16d @ 8" o/c	5/8" dia. @ 30" o.c. w/ 3x BTM. PLATE
▲	7/16" OSB ONE FACE	8d @ 2" o.c.	8d @ 12" o.c.	(2) 16d @ 8" o/c	5/8" dia. @ 18" o.c. w/ 3x BTM. PLATE
▲	19/32" OSB ONE FACE	10d @ 2" o.c.	10d @ 12" o.c.	(2) 16d @ 8" o/c	5/8" dia. @ 18" o.c. w/ 3x BTM. PLATE

**SHEARWALL NOTES:**

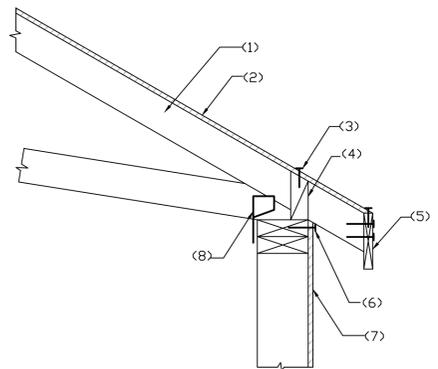
- ALL STUDS AND BLOCKING SHALL BE HF#2 ALL TOP AND BOTTOM PLATES SHALL BE HF#2. ALL SHEATHING EDGES SHALL BE BACKED WITH 2x OR WIDER FRAMING UNLESS OTHERWISE NOTED (SEE NOTE#2). SHEATHING MAY BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY.
- WHERE SHEATHING NAILING IS A ▲ OR GREATER, FOUNDATION SILL PLATES AND ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS SHALL NOT BE LESS THAN A SINGLE 3-INCH NOMINAL MEMBER AND SILL PLATES NOT BE LESS THAN A SINGLE 3-INCH NOMINAL MEMBER.
- NAILING CRITERIA IS BASED ON IBC 2306.3 AND AF&PA SPDWS TABLE 4.3A FOR CD PLYWOOD AND HF#2 FRAMING. WIRE STAPLES MAY BE SUBSTITUTED AS OUTLINED IN THE STRUCTURAL NOTES. OTHER SUBSTITUTIONS MUST BE VERIFIED IN WRITING BY THE STRL. ENGINEER.
- HOLD-DOWNS AND OTHER CONNECTIONS MAY BE REQUIRED AT THE ENDS OF MANY SHEARWALLS. SIZES AND LOCATIONS OF THESE CONNECTORS ARE INDICATED ON THE PLANS. REFER TO THE APPROPRIATE CONNECTOR DETAILS FOR ADDITIONAL INFORMATION REGARDING ANCHOR BOLTS, EMBEDMENT LENGTH, ETC.
- ANCHOR BOLTS MUST BE EMBEDDED INTO CONCRETE OR GROUTED CMU A MINIMUM OF 7", AND SHALL BE PLACED TO PROVIDE A MINIMUM OF 2" GROUTED CLEAR TO THE FACE OF FORMED CONCRETE (PROVIDED 3" CLEAR FOR CONCRETE CAST AGAINST SOIL).
- EDGE OF ANCHOR BOLT WASHER SHALL BE WITHIN 1/2" OF SHEAR WALL SHEATHING

HOLD DOWN SCHEDULE			
MARK	SIMPSON (PRODUCT) CAPACITY	ATTACHMENTS	ANCHOR BOLTS
STHD14	STHD14 OR STHD14RJ (OR PHD 2 SUBSTITUTION)	w/ 30x16d TO (2) STUDS	NONE
HDUS	HDUS - SDS 2.5	(1) 4) SDS 1/2"x2 1/2" TO 4x MEMBERS	5/8" DIA. ANCHOR SSTB PER SIMPSON DR "J" BOLT W/ 10" EMBEDMENT
HDUS	HDUS - SDS 2.5	(2) 2) SDS 1/2"x2 1/2" TO 6x MEMBERS	5/8" DIA. ANCHOR SB DR SSTB PER SIMPSON

**HOLD DOWN NOTES:**

- ALL THREAD BOLTS SHALL CONFORM TO ASTM A307.
- CONCRETE COMPRESSIVE STRENGTH F'c=2,500 psi.
- HD11/8 REQUIRES A 6x6 MIN POST SIZE. HDU2/4/5 REQUIRES (2) 2x MIN. POST SIZE. HD19 REQUIRED MIN. 6x8 POST SIZE UNO
- MINIMUM EDGE DISTANCE SHOWN IS FOR FORMED CONCRETE EXPOSED TO SOIL OR WEATHER. FOR CONCRETE CAST AGAINST SOIL PROVIDE 3" CLEAR TO ANCHOR BOLT.
- NAILS TO HOLD-DOWN POSTS SHALL BE 0.148"Ø COMMON. (16d SINKERS MAY BE USED WITH PRIOR WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER)

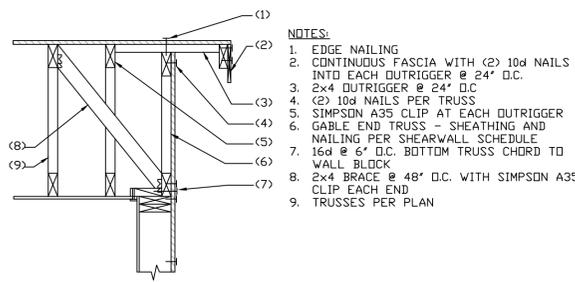
APPROVED PER NOTES  
ON PLAN  
NISQUALLY INDIAN TRIBE  
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**NOTES:**

- WOOD TRUSS
- PLYWOOD SHEATHING
- EDGE NAILING
- 2x BLOCKING WITH CONTINUOUS FASCIA WITH (2) 10d PER TRUSS
- SHEAR PANEL EDGE NAILING
- SHEATHING AND NAILING PER SHEARWALL SCHEDULE
- SIMPSON H2.5 AT EACH TRUSS

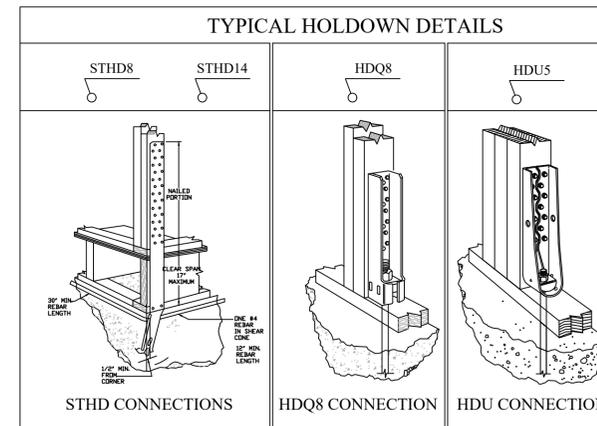
2 TYPICAL TRUSS CONNECTION  
SCALE: N.T.S.



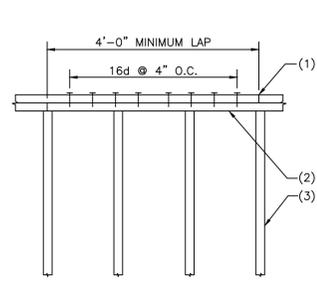
**NOTES:**

- EDGE NAILING
- CONTINUOUS FASCIA WITH (2) 10d NAILS INTO EACH OUTRIGGER @ 24" O.C.
- 2x4 OUTRIGGER @ 24" O.C.
- (2) 10d NAILS PER TRUSS
- SIMPSON A35 CLIP AT EACH OUTRIGGER
- GABLE END TRUSS - SHEATHING AND NAILING PER SHEARWALL SCHEDULE
- 16d @ 6" O.C. BOTTOM TRUSS CHRD TO WALL BLOCK
- 2x4 BRACE @ 48" O.C. WITH SIMPSON A35 CLIP EACH END
- TRUSSES PER PLAN

3 TRUSS GABLE END DETAIL  
SCALE: N.T.S.



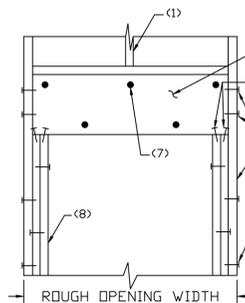
4 HOLD DOWN DETAIL  
SCALE: N.T.S.



**NOTES:**

- TOP PLATE SPLICE OVER STUD ONLY.
- DOUBLE TOP PLATE
- WOOD STUDS

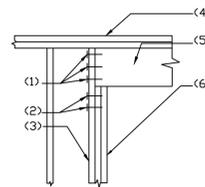
5 TYPICAL TOP PLATE SPLICE  
SCALE: N.T.S.



**NOTES:**

- WOOD STUD WALL
- WOOD HEADER PER PLAN
- (2) 16d TDENAILS EACH SIDE, EACH END
- (2) 16d AS SHOWN
- RUN VERTICAL STUDS UP PAST HEADER AS SHOWN - USE DOUBLE KING STUDS FOR OPENINGS GREATER THAN 5'-0"
- (2) 16d @ 12" O.C.
- 16d @ 12" O.C. STAGGERED BOTH SIDES
- DOUBLE STUDS UNDER HEADER BEARINGS FOR OPENING WIDTHS GREATER THAN 5'-0"

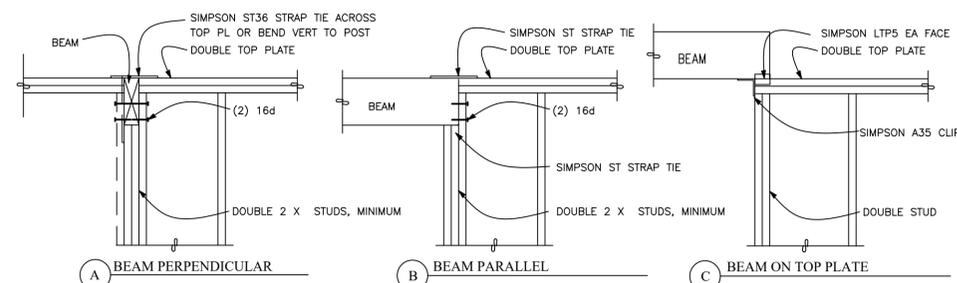
6 WOOD HEADER  
SCALE: N.T.S.



**NOTES:**

- (6) 16d, TYP.
- (4) 16d, TYP.
- FULL HEIGHT STUD
- CONTINUOUS DOUBLE TOP PLATE
- HEADER AS PER PLAN, SAME WIDTH AS WALL
- (2) CRIPPLE STUDS

7 BUILT-UP POST PARALLEL TO WALL  
SCALE: N.T.S.



8 BEAM TO FRAMING  
SCALE: N.T.S.

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