

9017 SE 60th St		Contact Information DAVE STAVE DAVES@BUCHANHOMES.CO	M
		Width Height	
Exempt Swinging Door (24 sq. ft. max.) Exempt Glazed Fenestration (15 sq. ft. max.)	Ref. U-factor	Qt. Feet Inch Feet Inc	Area UA 0.0 0.00 0.0 0.00
Vertical Fenestration (Windows and doors)			0.0 0.00
Component Description FOYER	Ref. U-factor	Width Height Qt. Feet Inch Feet Inc	Area UA
FOYER FOYER STUDY	0.28 0.28	1 6 2 2 4 1 6 8 3	14.4 4.03 49.5 13.86
G. BATH GEN SUITE GEN SUITE	0.28 0.28 0.28	1 2 3 1 7 6 6 3 2 2	6.0 1.68 45.0 12.60 12.0 3.36
GREAT RM GREAT RM	0.28 0.28	1 5 7 2 6 7	35.0 9.80 84.0 23.52
DINING KITCHEN	0.28	1 11 ¹⁰ 8 1 5 6	94.7 26.51 27.5 7.70
MUD MUD LAUNDRY	0.28 0.28 0.28	1 2 6 5 1 2 3 1 5 2 6	12.5 3.50 6.0 1.68 12.5 3.50
BDRM 2 UPPER STAIR	0.28	1 6 5 1 4 5 ⁷	30.0 8.40 22.3 6.25
OWNERS BATH W.I.C. OWNERS SUITE	0.28 0.28 0.28	1 5 2 6 1 2 2 6 3 2 2	12.5 3.50 5.0 1.40 12.0 3.36
OWNERS SUITE RECRATION	0.28 0.28	1 10 5 1 8 5	50.0 14.00 40.0 11.20
BDRM 3/4 BATH 3	0.28 0.28 0.28	1 2 2 6	48.0 13.44 5.0 1.40 0.0 0.00
	0.28 0.28		0.0 0.00 0.0 0.00
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	0.28 0.28		0.0 0.00 0.0 0.00
	Sum of V	ertical Fenestration Area and UA	634.9 177.77
Overhead Glazing (Skylights)	Vertical Fenestra	ation Area Weighted U = UA/Area	0.28
Component Description	Ref. U-factor	Width Height Qt. Feet ^{Inch} Feet ^{Inc}	Area UA
			0.00
			0.0 0.00 0.0 0.00
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		of Overhead Glazing Area and UA zing Area Weighted U = UA/Area	0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00
Total Sum of Fenestration Area	Overhead Gla	zing Area Weighted U = UA/Area	0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00 0.0 0.00
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TABLE R402.4.1.1 AIR BARRIER AND INSULATION INSTA	LLATION	
AIR BARRIER CRITERIA*	INSULATION CRITERIA*	

COMPONENT	AIR BARRIER CRITERIA	INSULATION CRITERIA-
General Requirements	A continuous air barrier shall be installed in the building envelope.	Air-permeable insulation shall not be used as a sealing material.
	Exterior thermal envelope contains a continuous air barrier.	
	Breaks or joints in the air barrier shall be sealed.	
Cavity insulation installation Cavity insulation installation	The air barrier in any dropped ceiling/soffit	All cavities in the thermal envelope shall be filled with insulation. The density of the insulation shall be at the manufacturers' product recommendation and said density shall be maintained for all volume of each cavity. Batt type insulation will show no voids or gaps and maintain an even density for the entire cavity. Batt insulation shall be installed in the recommended cavity depth. Where an obstruction in the cavity due to services, blocking, bracing or other obstruction exists, the batt product will be cut to fit the remaining depth of the cavity. Where the batt is cut around obstructions, loose fill insulation shall be placed to fill any surface or concealed voids, and at the manufacturers' specified density. Where faced batt is used, the installation tabs must be stapled to the face of the stud. There shall be no compression to the batt at the edges of the cavity due to inset stapling installation tabs. Insulation that upon installation readily conforms to available space shall be installed filling the entire cavity and within the manufacturers' density recommendation. The insulation in any dropped
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier sealed. Access openings, drop down stair or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier Batt insulation installed in attic roof assemblies may be compressed at exterior wall lines to allow for required attic ventilation.
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.
Windows, skylights and doors	The space between window/door jambs and framing and skylights and framing shall be sealed.	

TABLER	1402.4.1.1	continued	0	

Prescriptive Checklist for the 2018 Washington State Energy Code - Residentia

COMPONENT	AIR BARRIER CRITERIA*	INSULATION CRITERIA*
Rim Joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.
Floors (including above garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contax with the underside of subfloor decking or floor framing cavity insulation shall be permitted to be in contact with the topside of sheathing or continuous insulation installed on the underside of floor framing and extend from the bottom to the top of all perimeter floor framing members.
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I, black vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.	
Narrow cavities		Batts in narrow cavities shall be cut to fit and installed to the correct density without any voids or gaps or compression, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity space.
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.	
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls. There shall be no voids or gaps or compression where cut to fit. Insulation that on installation readily conforms to available space shall extend behind piping and wiring.
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate the wall from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.
Electrical/phone box on exterior wall	The air barrier shall be installed behind electrical or communication boxes or air sealed boxes shall be installed.	
HVAC register boots	HVAC supply and return register boots shall be sealed to the subfloor, wall covering or ceiling penetrated by the boot.	
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids between fire sprinkler cover plates and walls or ceilings.	

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

Prescriptive Checklist for the 2018 Washington State Energy Code - Residenti

ENGINEER:

FIRE:

REQUIRED.

NFPA 13D FIRE SPRINKLER SYSTEM

NFPA72 "CHAPTER 29" MONITORED

DEFICIENCY OF ROADWAY WIDTH.

FIRE ALARM SYSTEM REQUIRED FOR

SWENSON SAY FAGET CONTACT: JOCELYN TETREAULT 2124 THIRD AVENUE, SUITE 100 SEATTLE, WA. 98121

PH. 206-443-6212, FAX 206-443-4870 E-MAIL: jtetreault@swensonsayfaget.com

BUILDER

WILLIAM E. BUCHAN INC. 2630 116TH AVE NE BELLEVUE, WA. 98004 PHONE: 425-828-6424 FAX: 425-828-4435

www.BUCHANHOMES.COM

ALL WORK SHALL CONFORM TO CURRENT CODES INCLUDING BUT

GENERAL NOTES

- NOT LIMITED TO: 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL RESIDENTIAL CODE
- 2018 INTERNATIONAL MECHANICAL CODE 2018 EDITION OF ANSI Z223.1, NFPA 54, NATIONAL FUEL GAS CODE
- 2018 EDITION OF NFPA 58, LIQUEFIED PETROLEUM GAS CODE
- 2018 INTERNATIONAL FUEL GAS CODE CODE 2018 INTERNATIONAL FIRE CODE
- 2018 UNIFORM PLUMBING CODE
- 2018 WASHINGTON STATE ENERGY CODE

SUB-CONTRACTORS SHALL VERIFY ALL DIMENSIONS, AND SITE CONDITIONS, AND SHALL NOTIFY THE BUILDER IMMEDIATELY IN WRITING OF ANY DISCREPANCIES, ERRORS, OR OMISSIONS PRIOR TO PROCEEDING WITH THE WORK.

DO NOT SCALE THE DRAWINGS FOR CRITICAL DIMENSIONS. DIMENSIONS ARE SHOWN TO FACE OF STUDS UNLESS INDICATED OTHERWISE.

ALL SUB-CONTRACTORS SHALL

VERIFY ALL REQUIREMENTS FOR THIS PROJECT AND COMPLY WITH ALL LOCAL CODES, SUBMIT PLANS FOR APPROVAL AND OBTAIN PERMIT BEFORE STARTING WORK.

DO NOT VARY OR MODIFY THE WORK SHOWN WITHOUT WRITTEN AUTHORIZATION FROM THE BUILDER.

DETAILS WHICH OCCUR BOTH RIGHT- AND LEFT-HAND ARE SHOWN ONLY ONCE. TYPICAL DETAILS ARE NOT REFERENCED AT ALL

ENERGY CODE OPTIONS

HEATING OPTIONS: #2 HEAT PUMP = 1 CREDIT

1.3 EFFICIENT BUILDING ENVELOPE OPTIONS = .5 CREDITS

Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.28Floor R-38

Slab on grade R-10 perimeter and under entire slab, below grade slab R-10 perimeter and under entire slab or,

Compliance based on Section R402.1.4: Reduce the Total conductive UA by 5%.

3.5 HIGH EFFICIENCY HVAC EQUIPMENT OPTIONS = 1.5 CREDITS Air-source, centrally ducted heat pump with minimum HSPF of 11.0.

Outdoor heat pump - Hitachi HVAHP060B21S VRF (5 ton, 64,000 Max BTU/h) Multi-Stage 6,400 BTU/h - 64,000 BTU/h (11.0 HSPF efficiency).

Indoor Air Handler - Hitachi AP60DX22 (5 ton blower with coil).

4.2 HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEM OPTIONS = 1 CREDIT HVAC equipment and associated duct system(s) installation shall comply with the requirements of Section R403.3.7.

Locating system components in crawl spaces is not permitted under this option. Electric resistance heat and ductless heat pumps are not permitted under this option. Direct combustion heating equiptment with AFUE less than 80% is not permitted under this option.

To qualify to claim this credit, the building permit drawings shall specify the option be selected and shall specify the heating equiptment type, and shall show the location of the heating and cooling equiptment and all ductwork.

Ventilation - Air King model FAS (supply fan ventilation - 110CFM continuously operating, home requires 106 CFM)

5.5 EFFICIENT WATER HEATING OPTIONS = 2 CREDITS

Water heating system shall include one of the following: Electric heat pump water heater meeting the standards for Tier III of NEEA's advanced water heating specifications.

Water heater - RUUD PROH80T2RU310BM (80 gallon heat pump water heater, UEF=3.5, Tier III)

TOTAL = 6 CREDITS

VAPOR RETARDER CLASS I OR II CLIMATE ZONE MARINE 4:

6-Mil Poly Vapor Barrier in Crawl Space

R-21 Poly Encapsulated at Rim Joist

PVA Paint at Interior Sheet Rock (Roof/Ceiling assemblies and Exterior Walls) must have rating of 1.0 perm or less.





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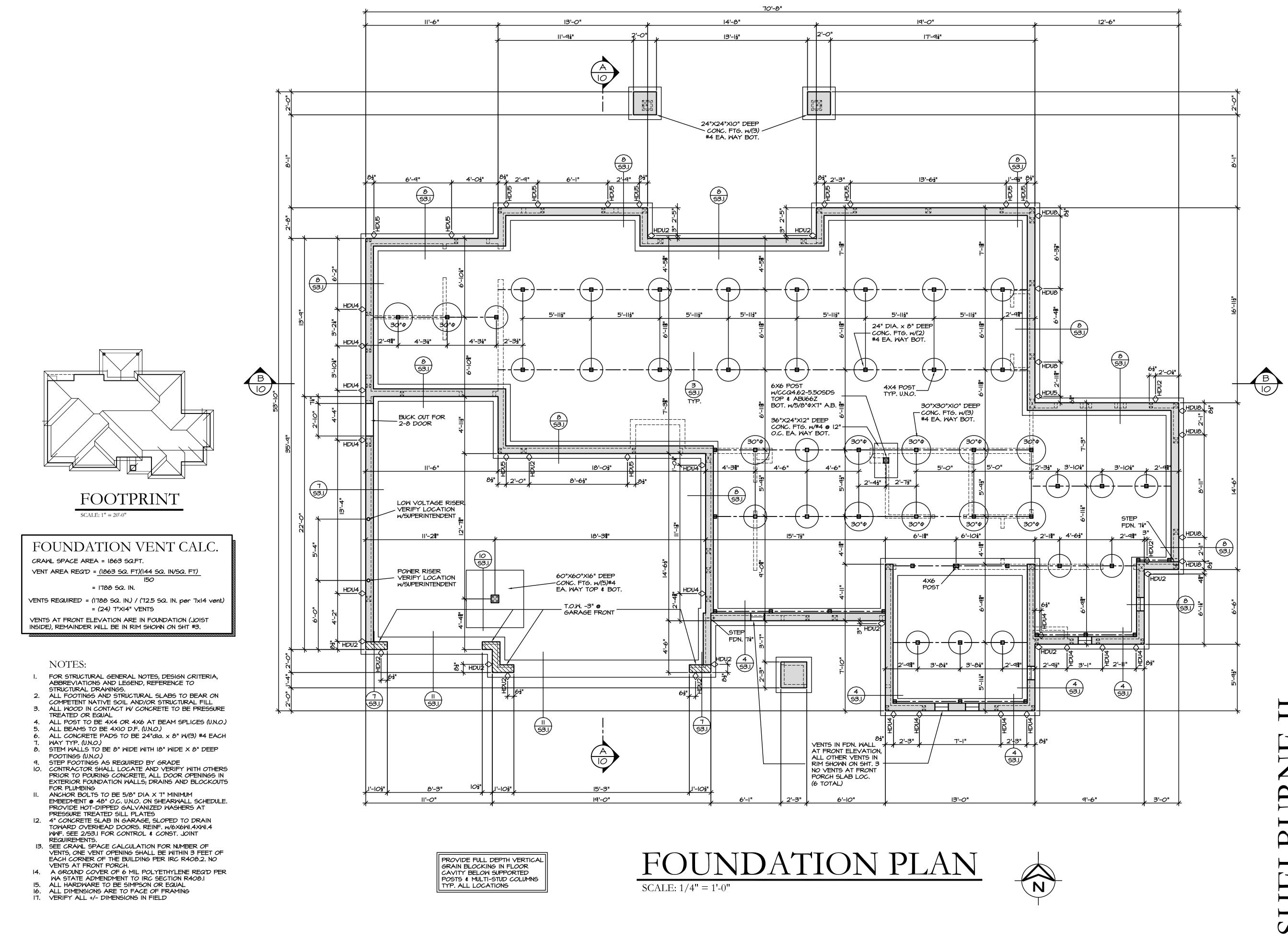
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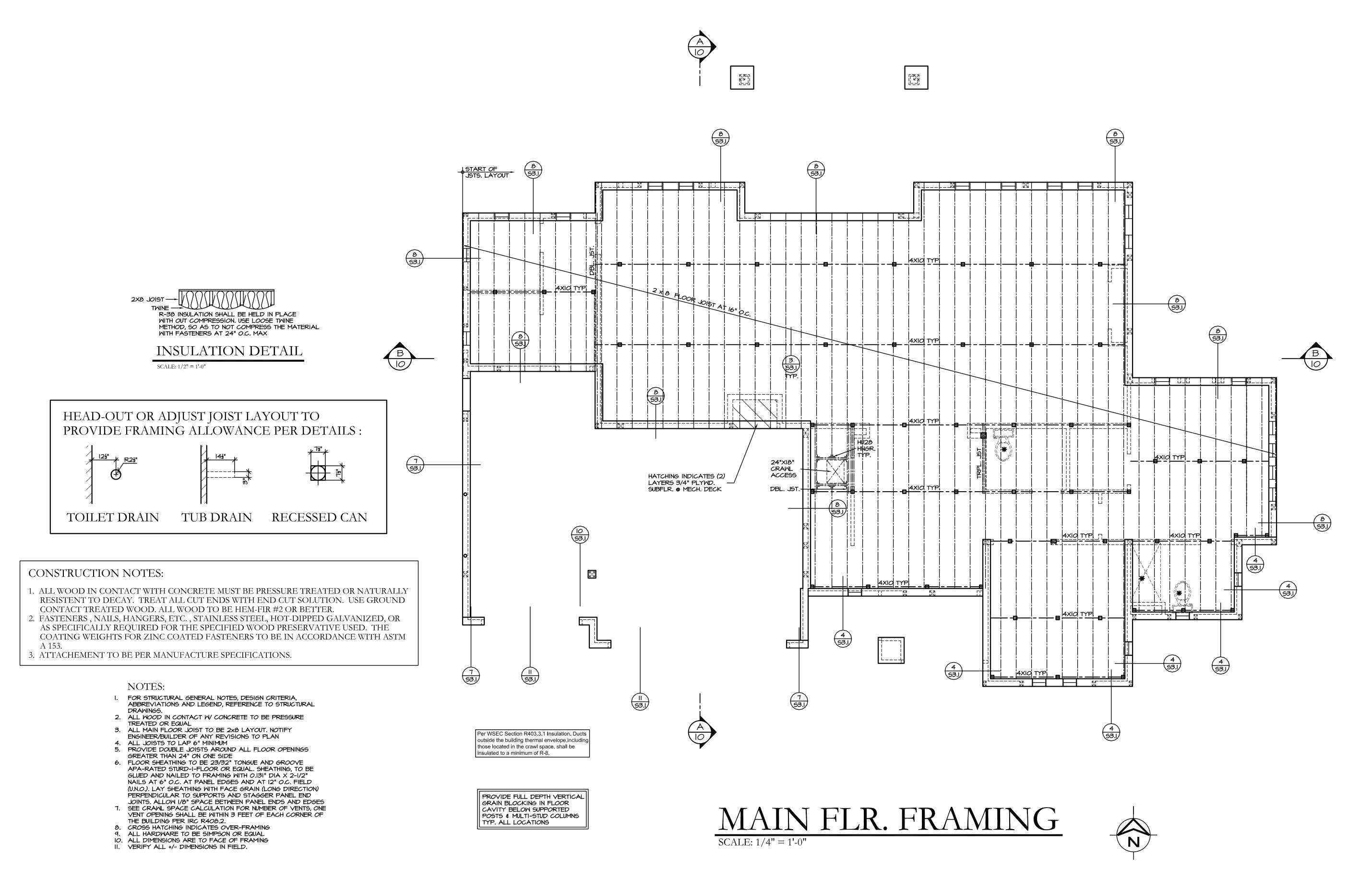
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608.3 Expansion Tanks, and Combination, Temperature and Pressure-Relief Valves. A water system provided with a check valve, backflow preventer, or other normally closed device that prevents dissipation of building pressure back into the water main, independent of the type of water heater used, shall be provided with an approved, listed, and adequately sized expansion tank or other approved device having a similar function to control thermal expansion. Such expansion tank or other approved device shall be installed on the building side of the check valve, backflow preventer, or other device and shall be sized and installed in accordance with the manufacturer's installation instructions.. R302.11 Fireblocking. In combustible construction, fire-blocking shall be provided to cut off both vertical and horizontal concealed draft openings and to form an effective fire barrier between stories, and between a top story and the roof space.

Fireblocking shall be provided in wood-framed construction in the

1. In concealed spaces of stud walls and partitions, including furred spaces and parallel rows 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 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 R302.7.

4. At openings around vents, pipes, ducts, cables and wires at ceiling and floor level, with an approved 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

5. For the fireblocking of chimneys and fireplaces, see Section

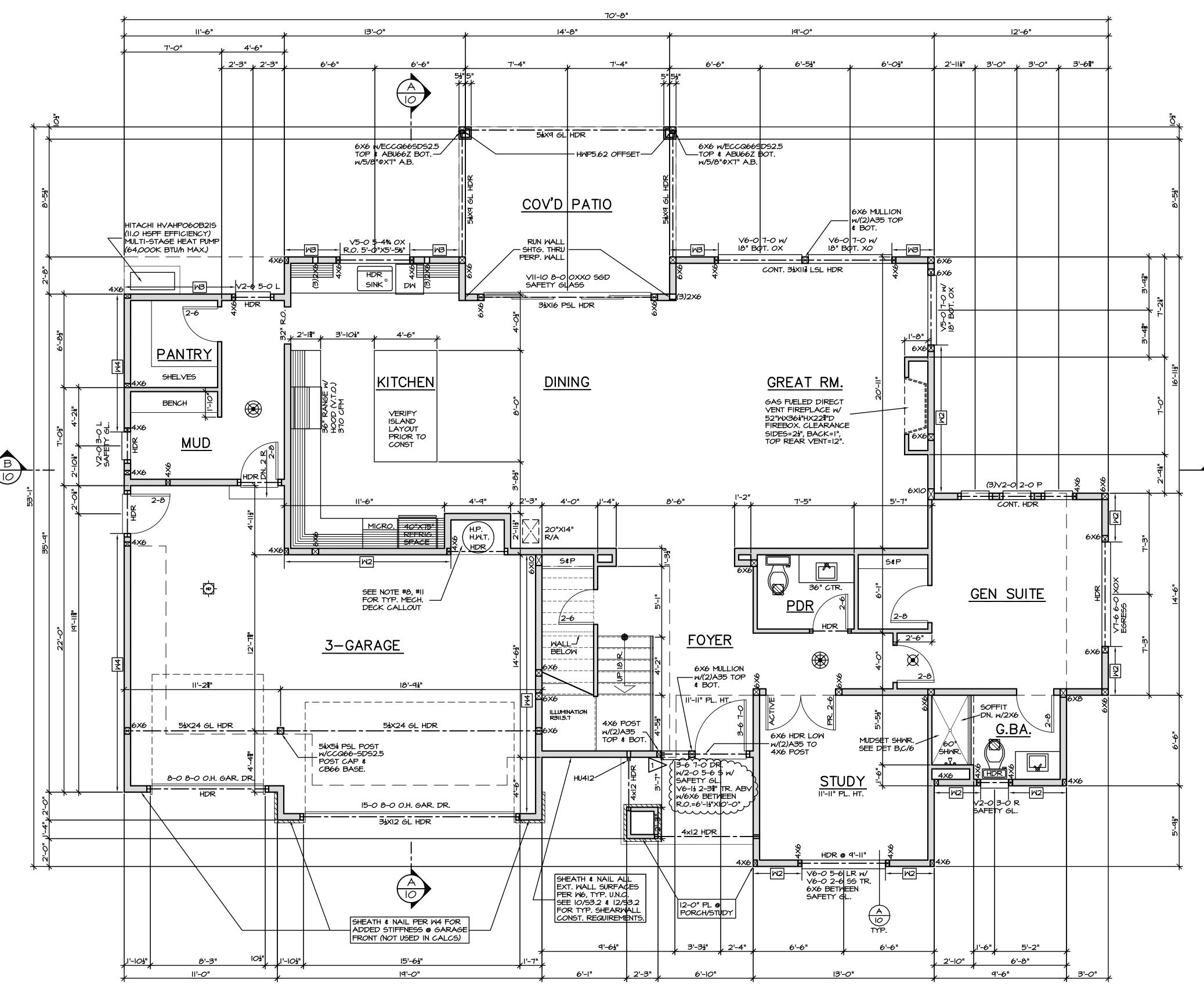
- FOR STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND, REFERENCE TO STRUCTURAL DRAWINGS.
- 2. ALL WOOD PLATES TO BE IO'-O" (U.N.O.) 3. ALL HEADERS (HDR) TO BE @ 8'-8" EXTERIOR AND 6'-103" INTERIOR
- (U.N.O.), POCKETS @ 7'-O4", BI-FOLDS @ 6'-IO". 4. ALL EXTERIOR WALLS ARE 2X6 @ 16" O.C., FOR LUMBER GRADE,
- REFERENCE STRUCTURAL GENERAL NOTES
- 5. ALL INTERIOR BEARING WALLS ARE 2X4 @ 16" O.C., FOR LUMBER GRADE, REFERENCE STRUCTURAL GENERAL NOTES
- 6. HEADERS(HDRS)/BEAMS(BMS) SHOWN BUT NOT SPECIFIED SHALL BE 4XI2(U.N.O.).ALL HEADERS/BEAMS SHALL BE SUPPORTED BY (I)TRIMMER AND (I) KING STUD (U.N.O.). WHERE MORE THAN I TRIMMER IS REQUIRED, THE NUMBER OF TRIMMER STUDS SHALL BE NOTED THUS: (N). TRIMMER LOADS TO BE ADEQUATELY TRANSFERRED TO THE FOUNDATION. SEE 3/53.2 FOR TYP HDR. CONST. REQUIREMENTS.
- 7. PILOTS, BURNERS, HEATING ELEMENTS AND SWITCHES TO FURNACE AND WATER HEATER SHALL BE LOCATED A MINIMUM OF 18" ABOVE GARAGE FLOOR AND BE PROTECTED FROM VEHICULAR COLLISION
- 8. FIRE STOPS SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS FROM VERTICAL TO HORIZONTAL SPACES, INCLUDING STAIRWELLS, TUBS AND SHOWERS, FIREPLACES, ETC.
- 9. GWB NOTE: USE $\frac{1}{2}$ " TYPE X GWB UNDER STAIRS W/ FINISHED SPACE
- IO. AREA SEPARATION NOTE: USE 2 LAYERS ¾" PLYWOOD FOR TOP DECKING ON ALL EXPOSED SUB-FLOOR IN GARAGE
- II. R 309.I, OPENINGS BETWEEN THE GARAGE AND THE RESIDENCE SHOULD BE EQUIPPED WITH SOLID WOOD DOORS OR SOLID/HONEYCOMB STEEL DOORS AT LEAST 1-3/8" THICK. A 20 MINUTE FIRE RATED DOOR IS ALSO ACCEPTABLE. REQ'D TO BE SELF CLOSING PER IRC 302.5.I
- 12. R309.2, SEPARATION REQUIRED. THE GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE. GARAGES BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN 5/8" TYPE-X GYPSUM BOARD OR EQUIVALENT. WHERE THE SEPARATION IS A FLOOR-CEILING ASSEMBLY THE STRUCTURE SUPPORTING THE SEPARATION SHALL ALSO BE PROTECTED BY NOT LESS THAN 1/2" GYPSUM BOARD OR EQUIVALENT
- 13. ALL HARDWARE TO BE SIMPSON OR EQUAL 14. ALL DIMENSIONS TO FACE OF FRAMING
- 15. VERIFY ALL +/- DIMENSIONS IN FIELD
- 16. ALL EXTERIOR WALLS SHALL BE W6 UNLESS NOTED OTHERWISE. 17. PER TABLE R402.I.I FOOTNOTE M, ALL EXT. WALL HDRS ARE REQ'D TO
- BE INSULATED WITH MIN. R-10 INSUL.

GROSS FLOOR AREA

MAIN FLOOR (STAIR INCLUDED) 1868 S.F. UPPER FLOOR 1980 S.F. GARAGE 609 S.F

TOTAL FLOOR AREA

4457 S.F



ELECTRICAL SYMBOLS

50 CFM EXHAUST FAN VENTED TO OUTSIDE (U.N.O.)

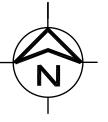
SMOKE DETECTOR MIRED TO HOUSE CURRENT MITH BATTERY BACKUP

MAIN FLOOR PLAN

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

Per IRC Section R302.5.2 Duct penetration Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall not have openings into the garage.

Per WSEC Section R403.3.1 Insulation. Ducts outside the building thermal envelope, including those located in the crawl space, shall be insulated to a minimum of R-8.



SQUARE FOOTAGE CALC. 1868 S.F. MAIN FLOOR PLAN UPPER FLOOR PLAN 2119 S.F. TOTAL LIVING AREA 3987 S.F. GARAGE 609 S.F. COVERED PORCH 59 S.F. COVERED PATIO 184 S.F.

SHEET

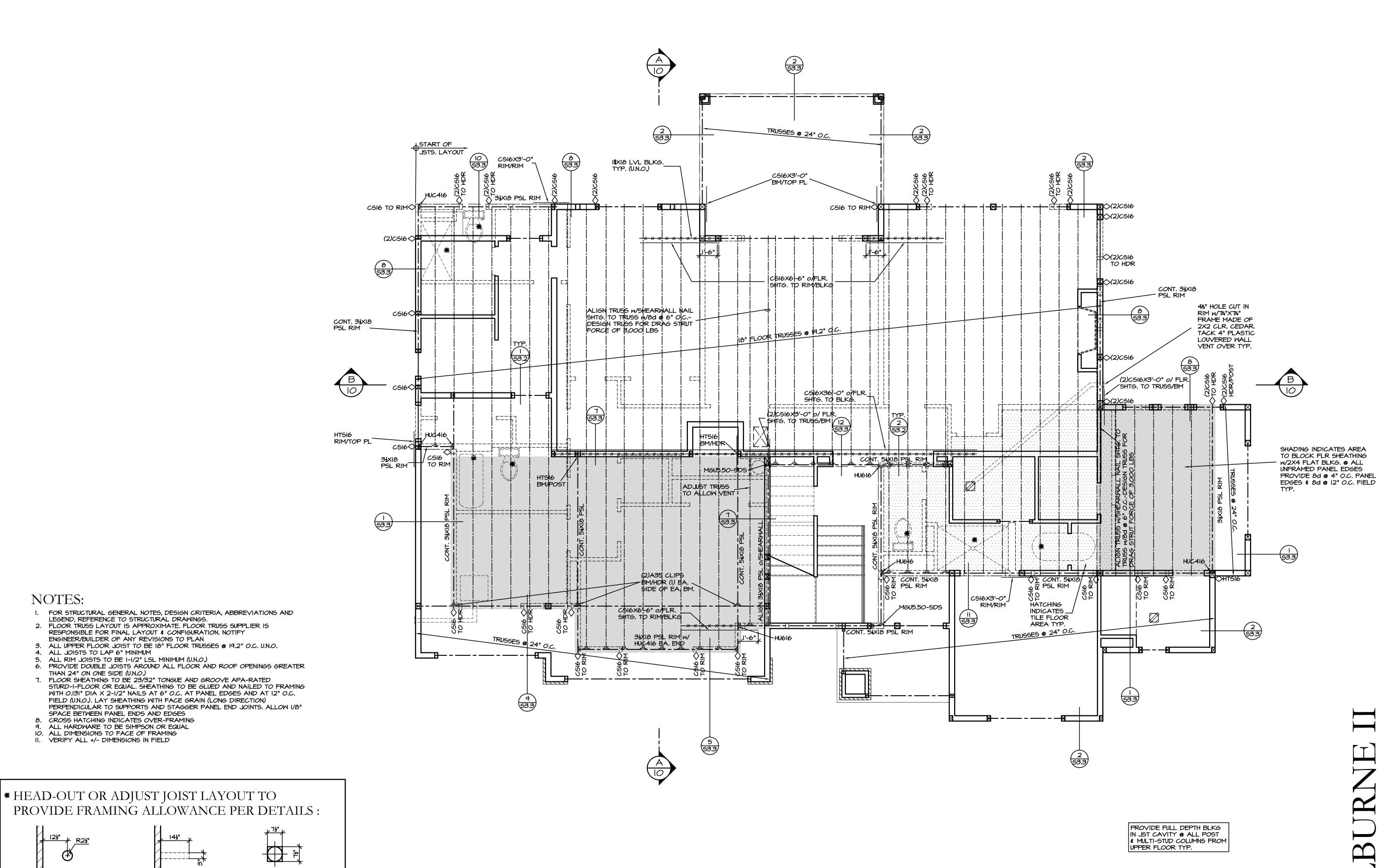
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UPPER FLR. FRAMING

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

NOTES:

TOILET DRAIN

4. ALL JOISTS TO LAP 6" MINIMUM

SPACE BETWEEN PANEL ENDS AND EDGES 8. CROSS HATCHING INDICATES OVER-FRAMING 9. ALL HARDWARE TO BE SIMPSON OR EQUAL IO. ALL DIMENSIONS TO FACE OF FRAMING II. VERIFY ALL +/- DIMENSIONS IN FIELD

RESPONSIBLE FOR FINAL LAYOUT & CONFIGURATION. NOTIFY ENGINEER/BUILDER OF ANY REVISIONS TO PLAN

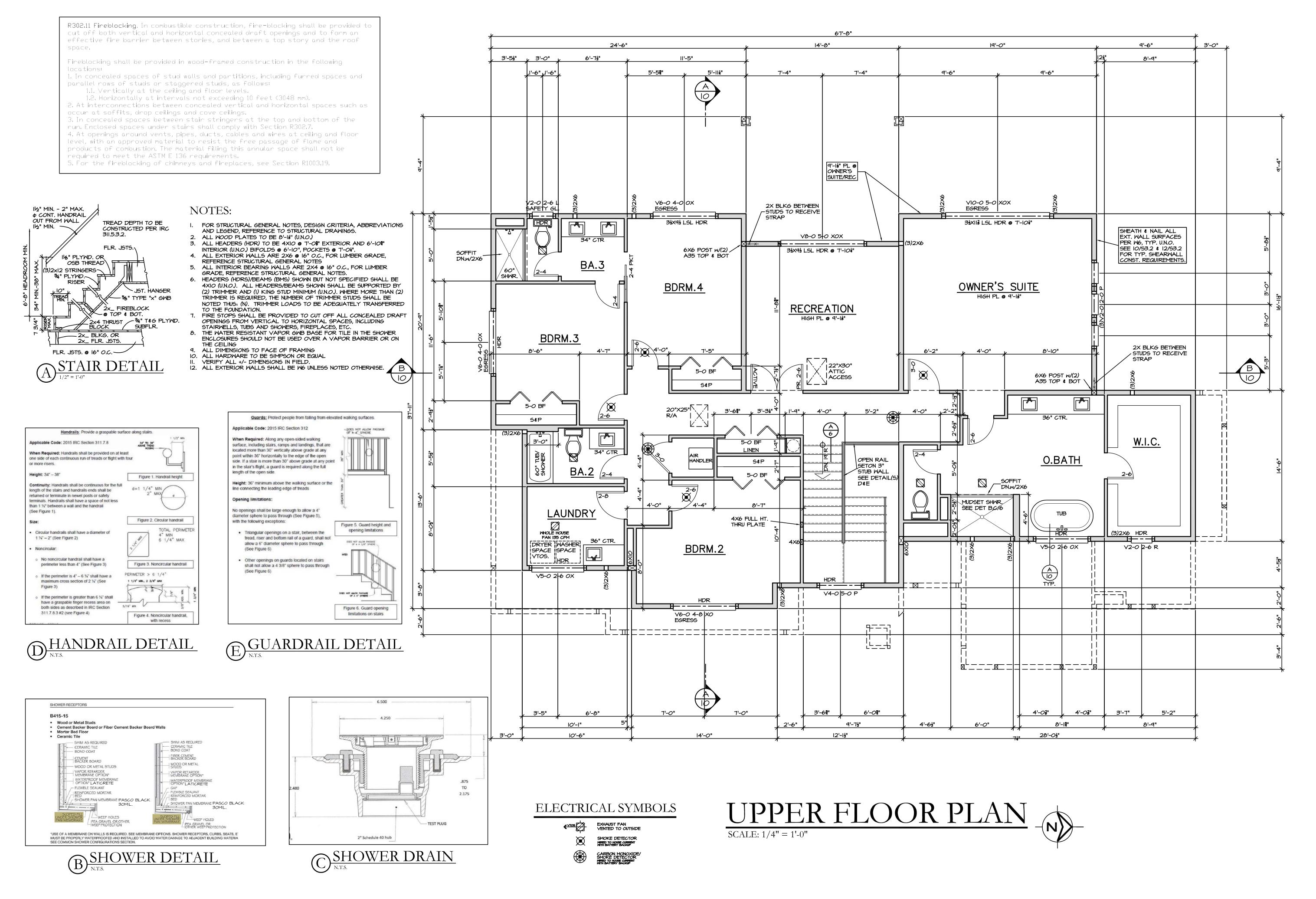
TUB DRAIN RECESSED CAN

CONTENT UPPER 1 9017 SE

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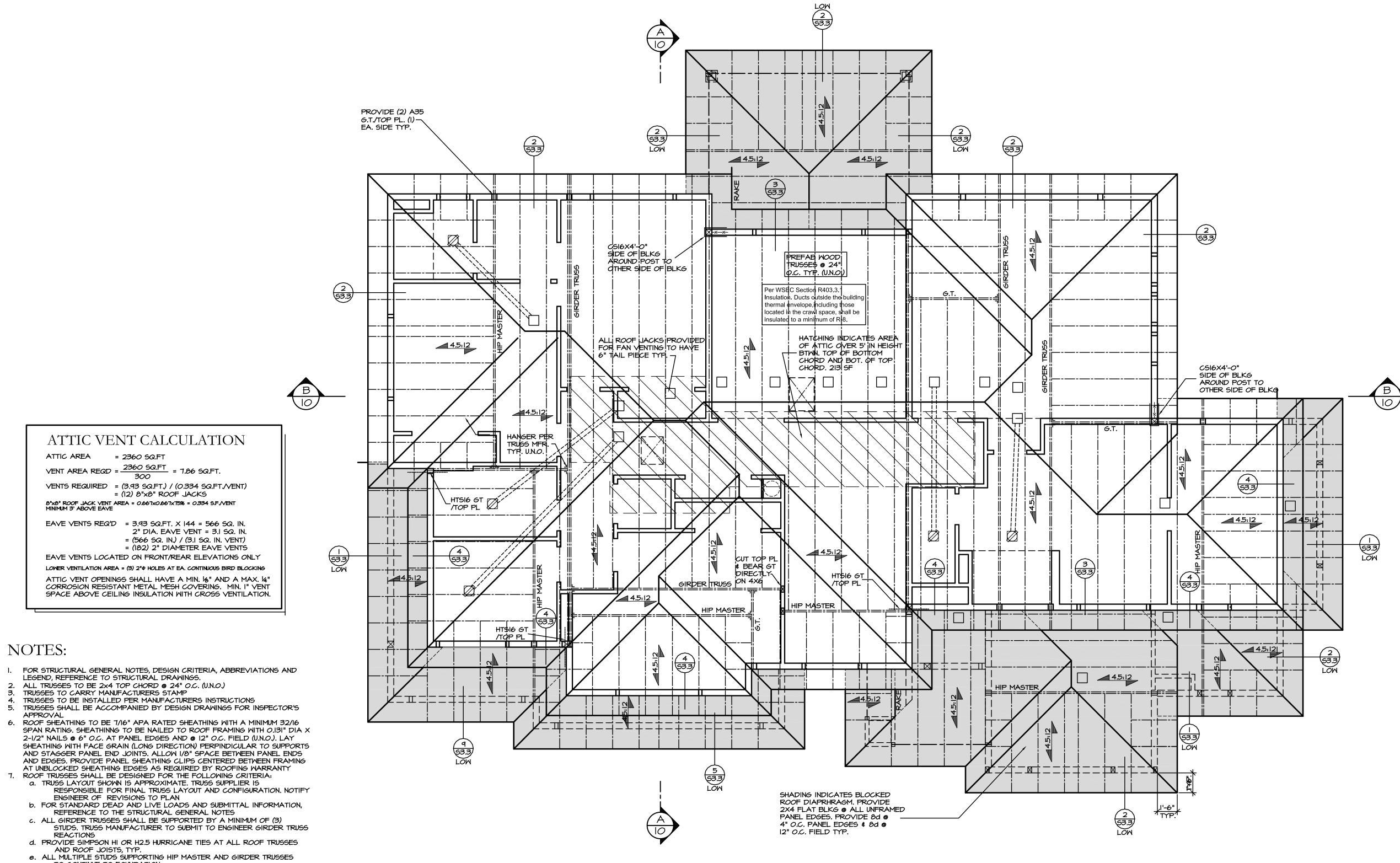
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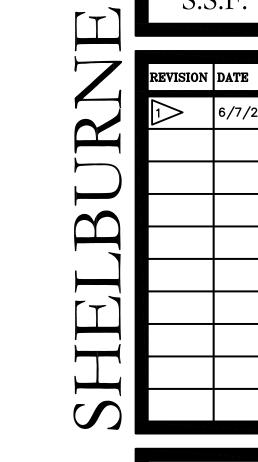
TO CONTINUE TO FOUNDATION

13. PROVIDE HI HURICANE TIE EACH END OF ALL ROOF JACKS.

IO. ALL HARDWARE TO BE SIMPSON OR EQUAL
II. ALL DIMENSIONS TO FACE OF FRAMING
I2. VERIFY ALL +/- DIMENSIONS IN FIELD.

8. TRUSS HANGERS SHALL BE SUPPLIED AND DESIGNED BY THE TRUSS SUPPLIER 9. CROSS HATCHING INDICATES OVERFRAMING



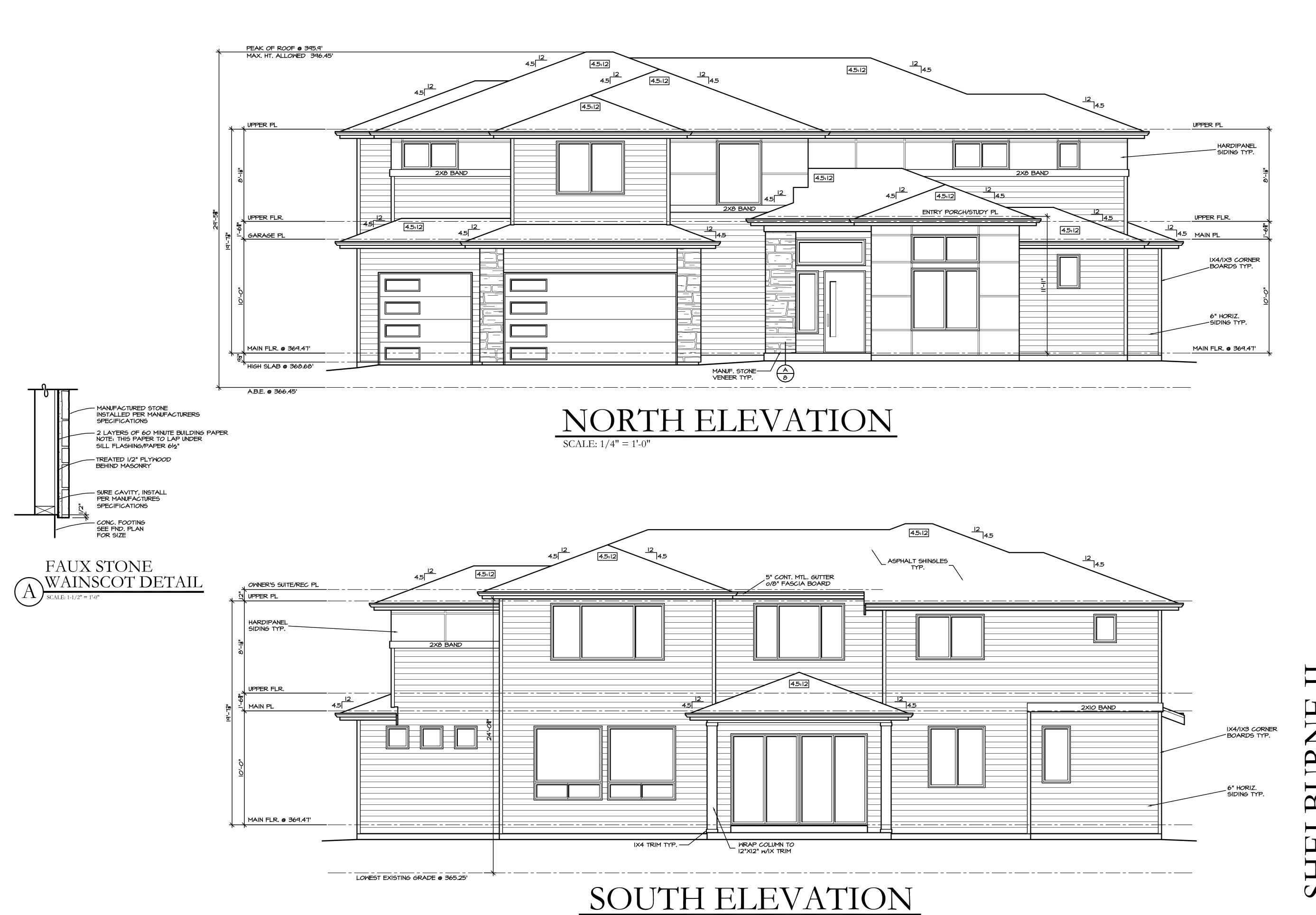


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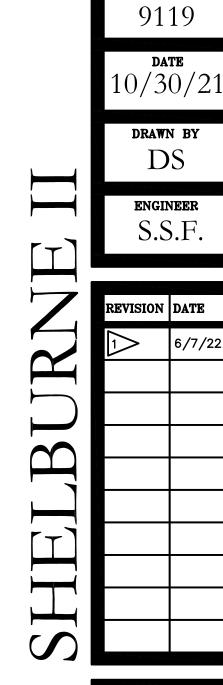
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SCALE: 1/4" = 1'-0"

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





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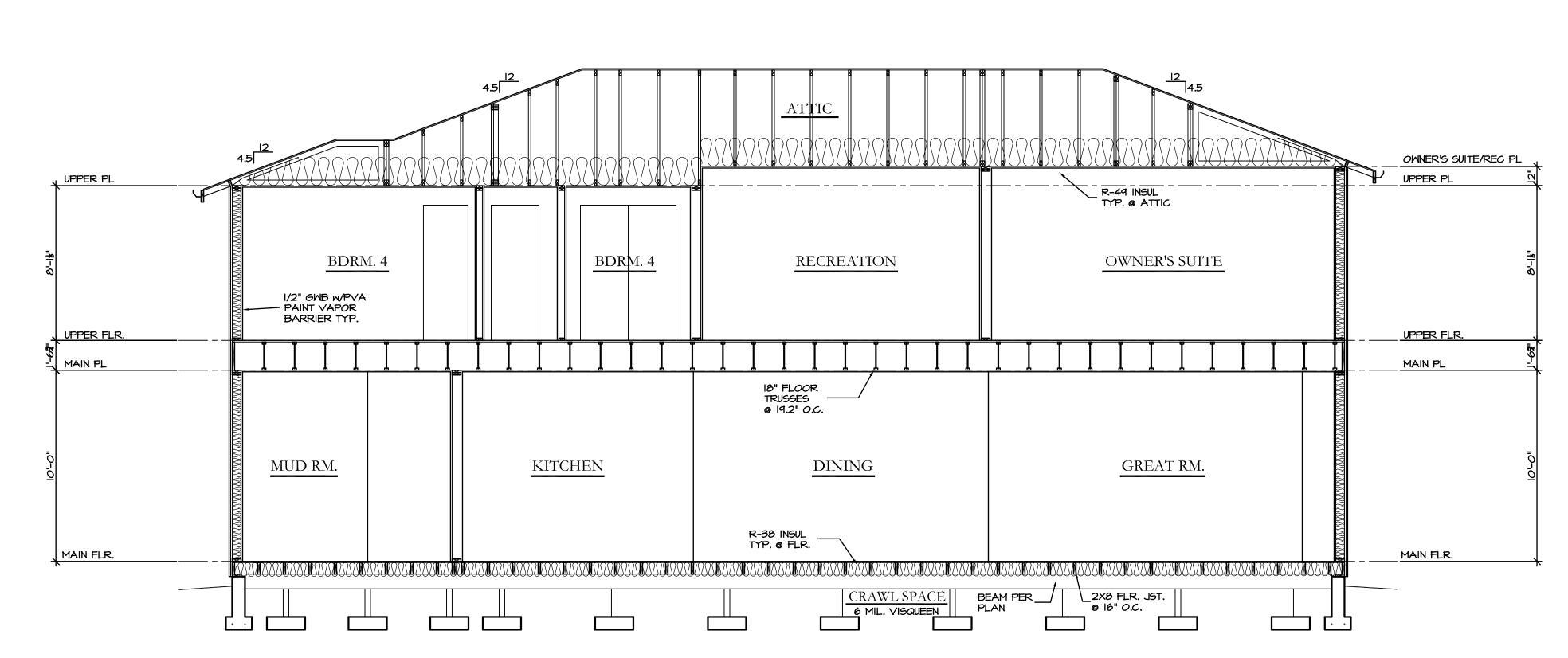
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REVISION DATE

7/16 OSB o/MANUF. TRUSSES I" CLEAR AIR SPACE o/INSUL BAFFLE 2X BIRD BLKG. W/SCREENED VENT HOLES, SEE ROOF PLAN FOR VENT SPECS. UPPER PL UPPER PL _R-49 INSUL TYP. @ ATTIC PROVIDE "Z" 5" CONT. MTL. GUTTER o/ 5/4x8 FASCIA BD. FLASHING o/ MDM'S & DR'S, RUN BLDG, PAPER BDRM. 4 HALL MECH. BDRM. 2 o/FLASHING 1/2" GWB W/PVA - PAINT VAPOR BARRIER TYP. UPPER FLR. UPPER FLR. MAIN PL MAIN PL TRUSSES 2X6 EXT. WALL STUDS **9** 19.2" O.C. @ 16" O.C. W/ R-21 INSUL. 1/2" PLYWOOD OR 7/16 OSB w/60# BLDG. PAPER KITCHEN GARAGE PER ELEVATION & SPECS. INSTALL PER MER'S INSTRUCTIONS. R-38 INSUL TYP. @ FLR. CONC. SLAB MAIN FLR. GAR. HIGH SLAB BEAM PER 6 MIL. VISQUEEN

BUILDING SECTION "A"



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

ASPHALT SHINGLES o/15# FELT, o/1/2" PLYWOOD OR

BUILDING SECTION "B" SCALE: 1/4" = 1'-0"

ROOF CONSTRUCTION

ASPHALT SHINGLES
15# BUILDERS FELT
1/2" PLYWOOD OR 7/16" OSB
MANUFACTURED TRUSSES @ 24" O.C. (U.N.O.) SEE PLANS.
1/2" GYPSUM WALL BOARD
INSULATION PER ENERGY CODE (R-49 FLAT CEILING, R-38 VAULTED)

WALL CONSTRUCTION

SIDING AS PER EXTERIOR ELEVATIONS (SHINGLE, HORIZ., BD. & BATT., OR MANUF. STONE PER SPECS.)
60# BUILDING PAPER
1/2" PLYWOOD OR 7/16 OSB
2x6 EXTERIOR WALL STUDS @ 16" O.C. 2x4 INTERIOR WALL STUDS @ 16" O.C. INSULATION PER ENERGY CODE (R-21)
1/2" GYPSUM WALL BOARD
PVA PAINT VAPOR BARRIER

FLOOR CONSTRUCTION

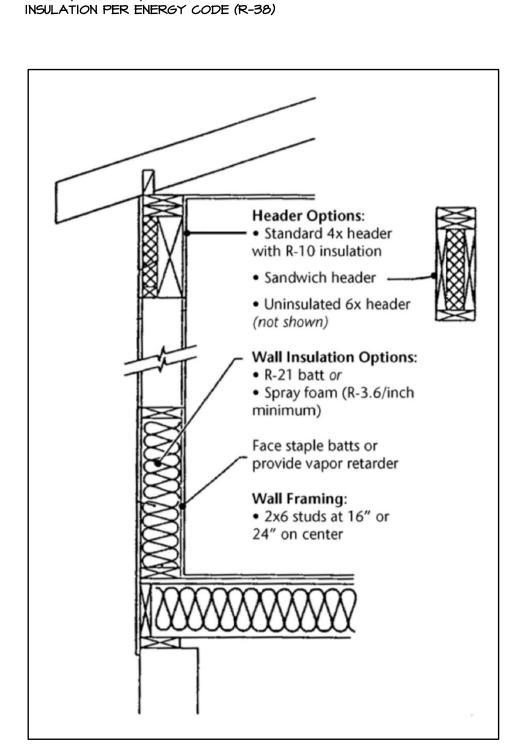
FINISHED FLOOR PER SPECIFICATIONS.

3/4" T&G PLYWOOD SUB FLOOR GLUED & NAILED

2X8 FLOOR JOISTS @ 16" O.C. (MAIN)

18" FLOOR TRUSSES @ 19.2" O.C. (UPPER)

BEANS

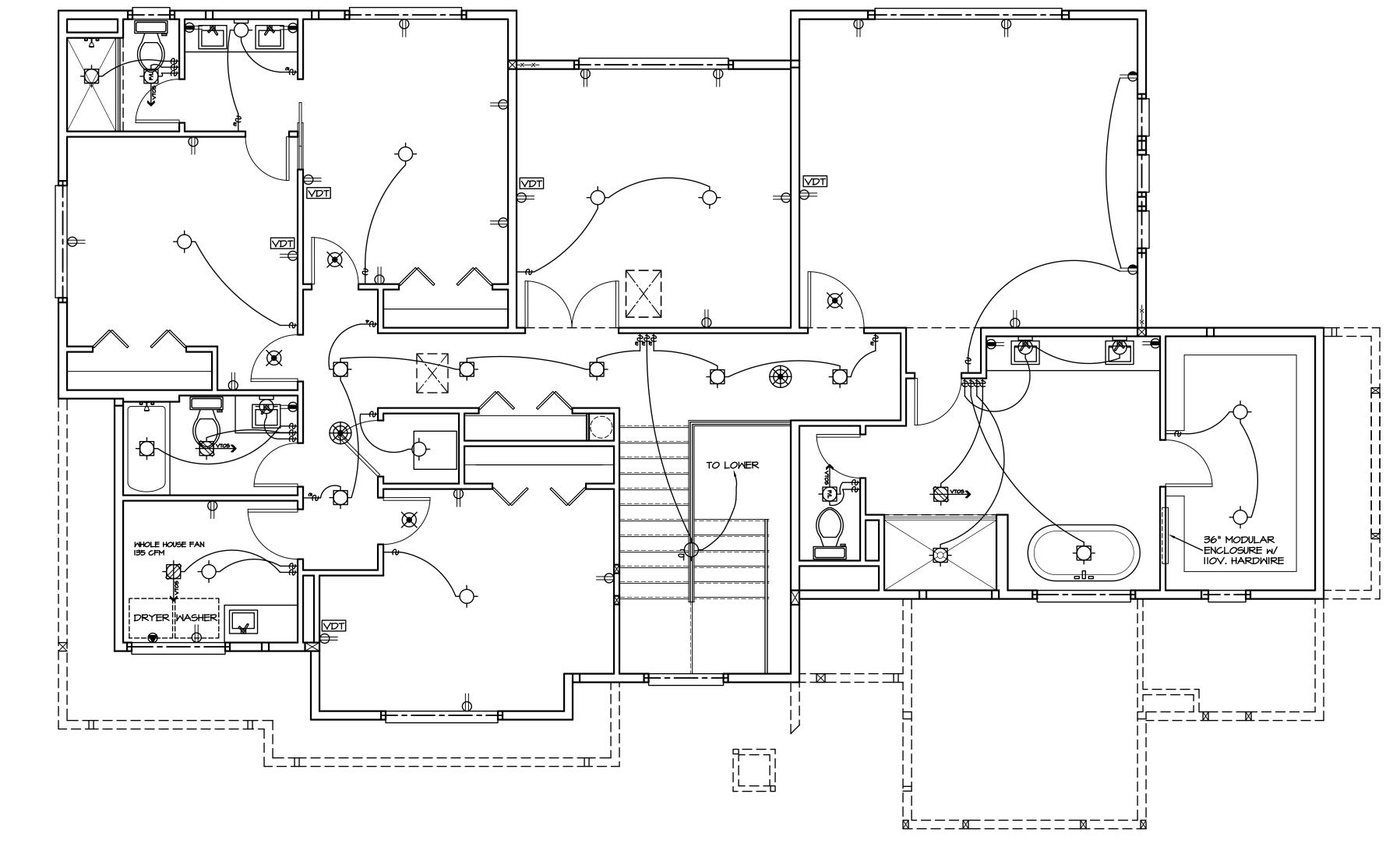


A HDR w/R-10 INSUL.

SCALE: 1/2" = 1'-0"

SHEET

OF 16



ALL UPPER FLOOR FANS TO VENT OUT THROUGH DESIGNATED ROOF JACKVENTS SHOWN ON SHEET 7, ROOF JACK VENTS PROVIDED FOR FAN VENTING TO HAVE 6" TAIL PIECE TYP.

ELECTRICAL SYMBOLS

NOTE: 75% OF ALL LIGHT FIXTURES MUST BE HIGH EFFICIENCY.





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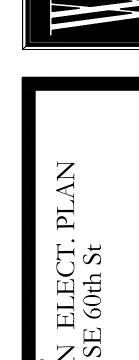
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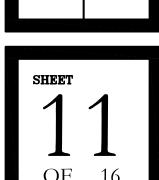


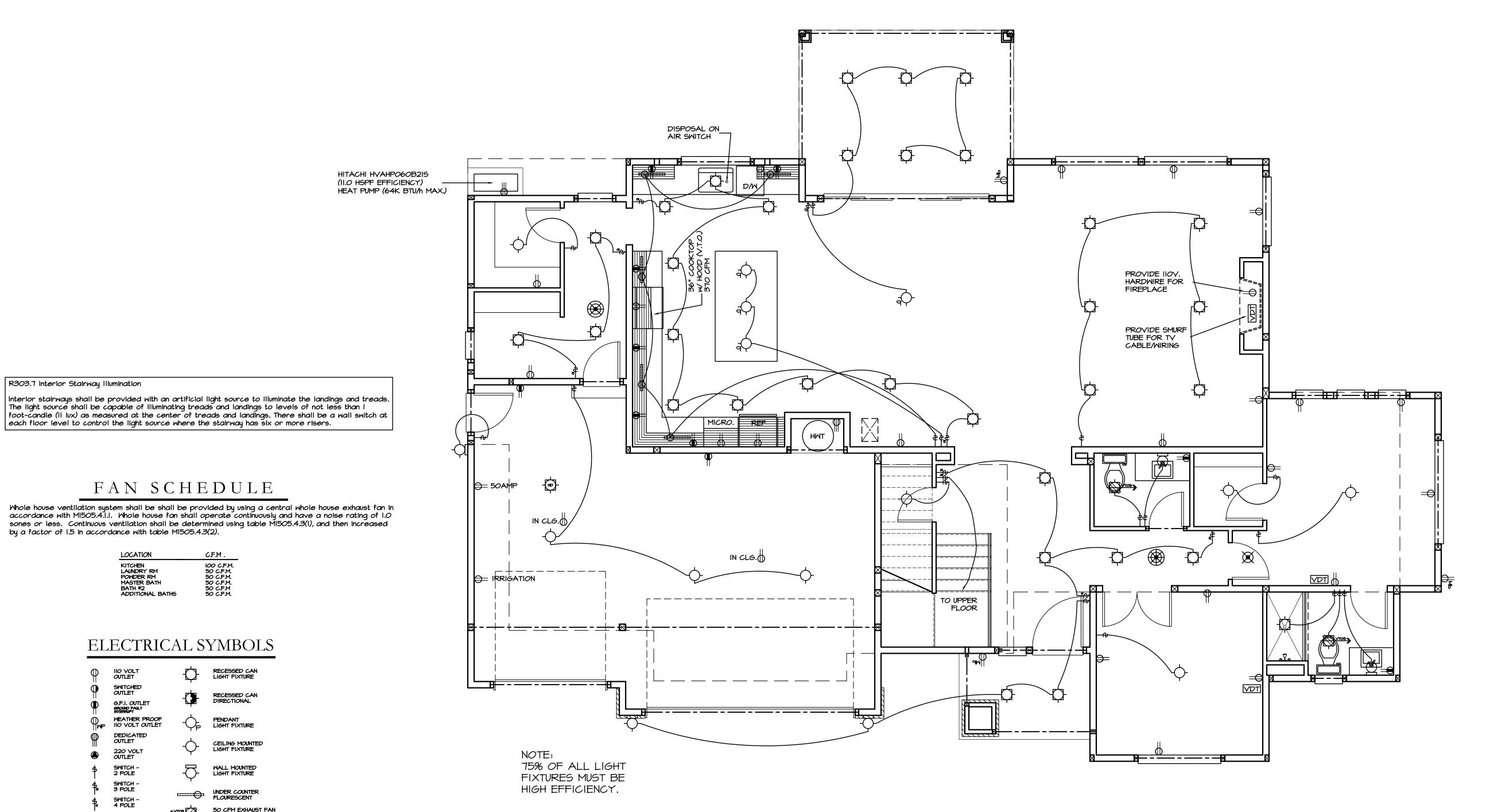


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ELECTRICAL SYMBOLS

100 C.F.M. 50 C.F.M. 50 C.F.M. 50 C.F.M. 50 C.F.M. 50 C.F.M.

LOCATION

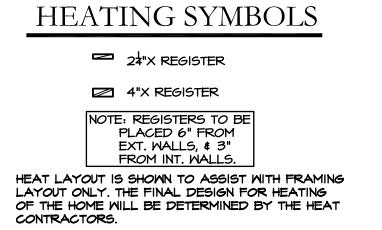
KITCHEN
LAUNDRY RM
POWDER RM
MASTER BATH
BATH #2
ADDITIONAL BATHS

FAN SCHEDULE

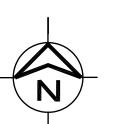
R303.7 Interior Stairway Illumination

\P	IIO VOLT OUTLET	-	RECESSED CAN LIGHT FIXTURE
•	SWITCHED OUTLET	-	RECESSED CAN
$lackbox{}$	G.F.I. OUTLET GROUND FAULT INTERRUPT		DIRECTIONAL
PMP	WEATHER PROOF 110 VOLT OUTLET	÷	PENDANT LIGHT FIXTURE
\P	DEDICATED OUTLET	\leftarrow	CEILING MOUNTED
	220 VOLT OUTLET	Υ	LIGHT FIXTURE
\$	SMITCH - 2 POLE	-	WALL MOUNTED LIGHT FIXTURE
\$	SWITCH - 3 POLE	1	UNDER COUNTER
\$	SMITCH - 4 POLE		FLOURESCENT
\$	SMITCH - DIMMER	VTOS (C)	50 CFM EXHAUST FAN VENTED TO OUTSIDE (U.N.O.
\bigotimes	SMOKE DETECTOR WIRED TO HOUSE CURRENT WITH BATTERY BACKUP		HEAT DETECTOR
VDT	VIDEO/DATA TELECOM PORT	- LP -	WITH BATTERY BACKUP CONNECT TO SMOKE ALARM INSIDE THE DWELLING THAT WILL PROVIDE OCCUPANT





MAIN FLOOR MECH.





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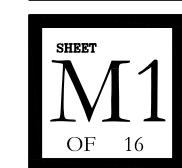
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HEATING SYMBOLS

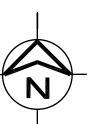
24"X REGISTER

✓ 4"X REGISTER

NOTE: REGISTERS TO BE PLACED 6" FROM EXT. WALLS, & 3" FROM INT. WALLS.

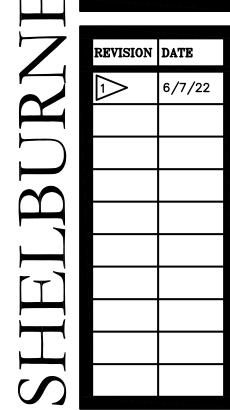
HEAT LAYOUT IS SHOWN TO ASSIST WITH FRAMING LAYOUT ONLY. THE FINAL DESIGN FOR HEATING OF THE HOME WILL BE DETERMINED BY THE HEAT CONTRACTORS.

UPPER FLR. FRMG. MECH. SCALE: 1/4" = 1'-0"

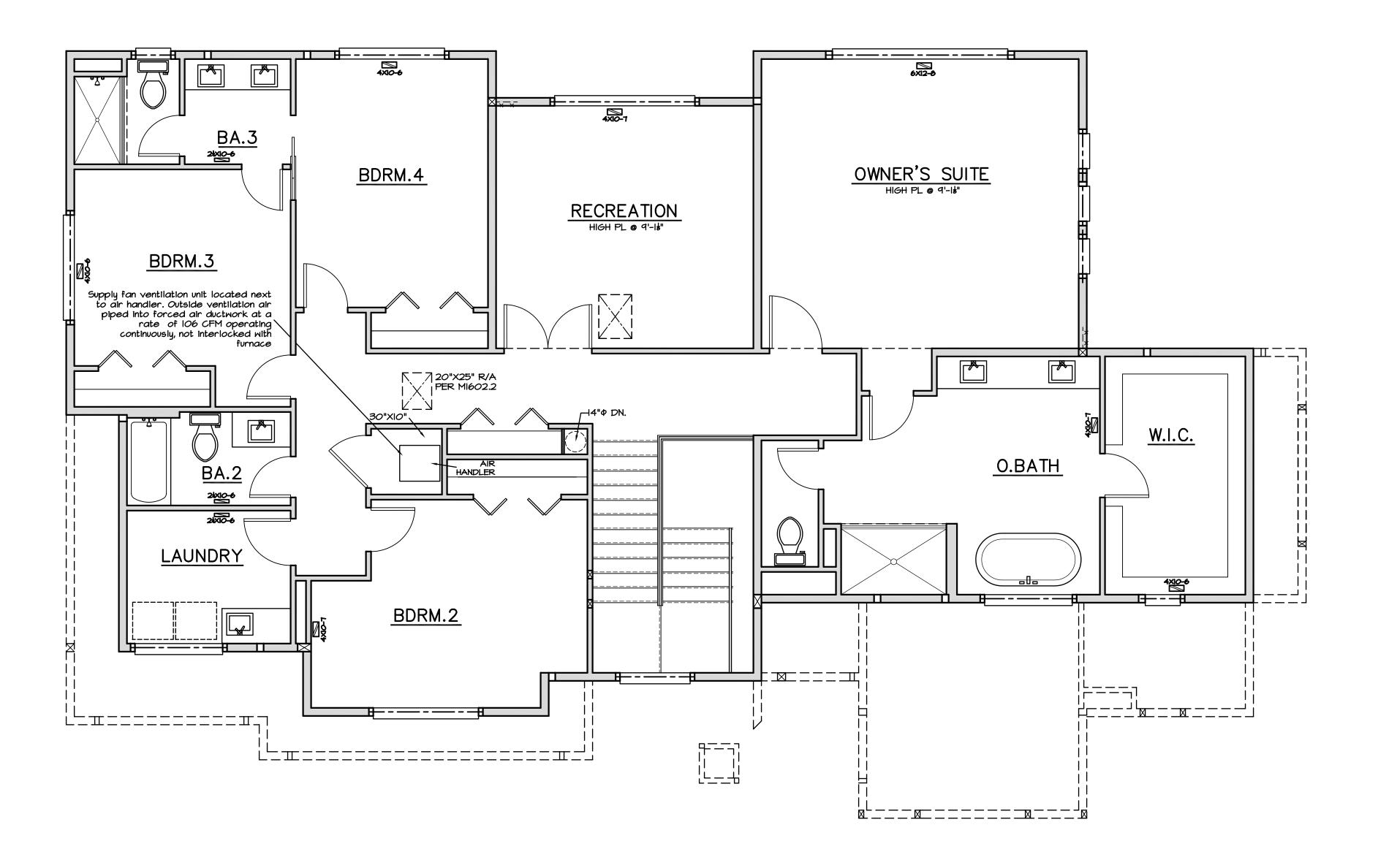




CONTENT UPPER FLR. 9017 SE 60th S 10/30/21







HEATING SYMBOLS

24"X REGISTER

NOTE: REGISTERS TO BE PLACED 6" FROM EXT. WALLS, & 3" FROM INT. WALLS.

HEAT LAYOUT IS SHOWN TO ASSIST WITH FRAMING LAYOUT ONLY. THE FINAL DESIGN FOR HEATING OF THE HOME WILL BE DETERMINED BY THE HEAT CONTRACTORS.

UPPER FLOOR MECH.





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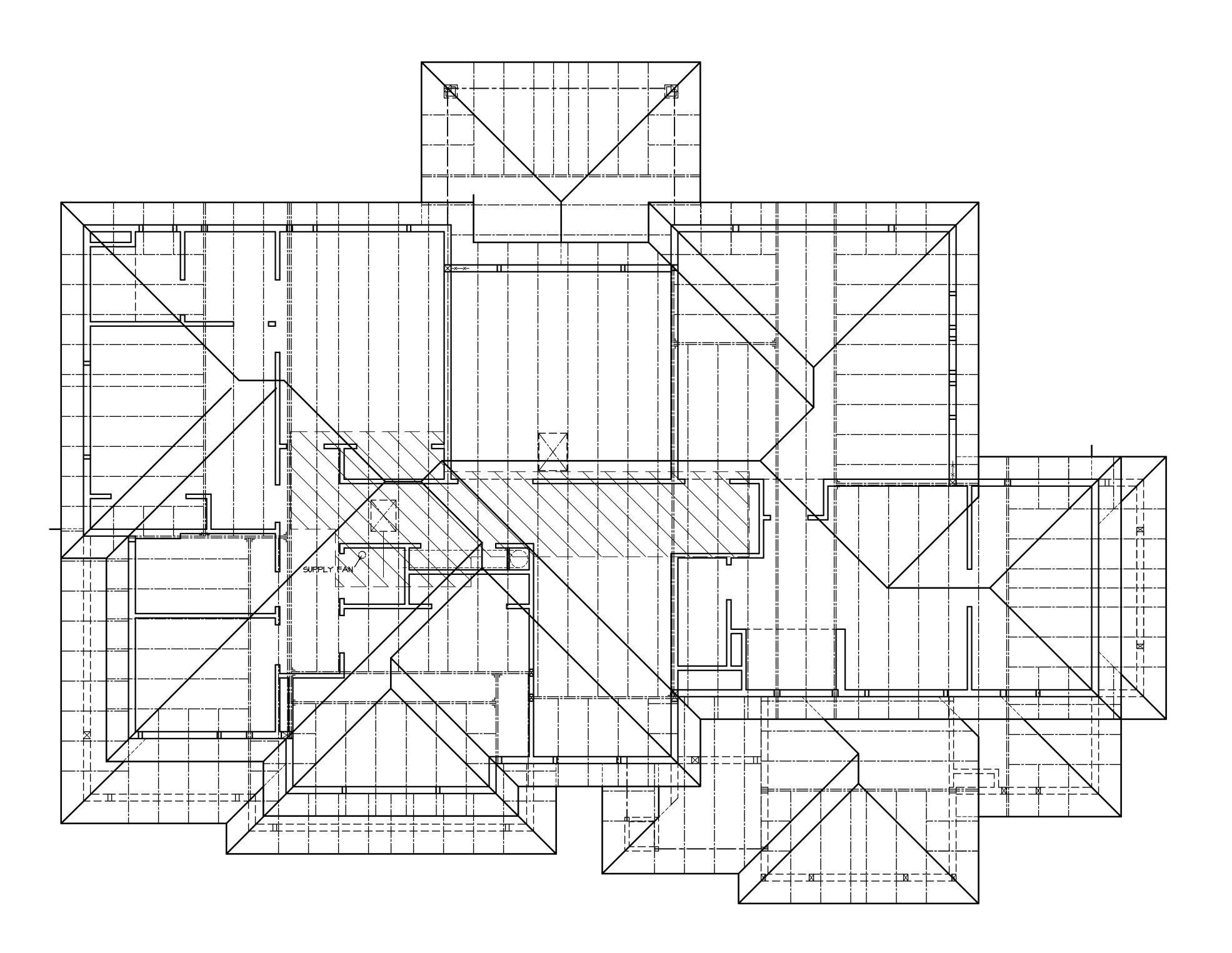
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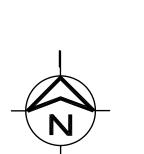
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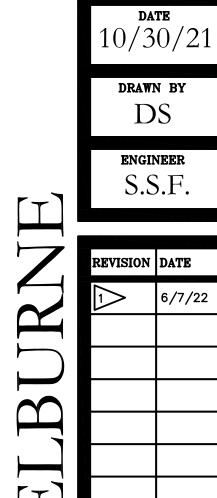
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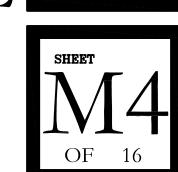








ROOF FRAMING 1 9017 SE 60th St



General Structural Notes

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

CRITERIA DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (2018)

2. DESIGN LOADING CRITERIA:

EDITION).

RESIDENTIAL - ONE AND TWO-FAMILY DWELLINGS FLOOR LIVE LOAD
DEFLECTION CRITERIA LIVE LOAD DEFLECTION

ENVIRONMENTAL LOADS SNOW Ce=1.0, Is=1.0, Ct=1.1, Cs=1.0, Pg=25 PSF, Pf=20 PSF WIND . . . GCpi=0.18, 110 MPH, RISK CATEGORY II, EXPOSURE "B", Kzt=1.3 EARTHQUAKE . . . ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE LATERAL SYSTEM: LIGHT FRAMED SHEAR WALLS, Vs=16.9 KIPS SITE CLASS=D, Ss=146, Sds=116, S1=50, SD1=57, Cs=0.179 SDC D (DEFAULT), Ie=1.0, R=6.5

SEE PLANS FOR ADDITIONAL LOADING CRITERIA

- . STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATION, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.
- 4. PRIMARY STRUCTURAL ELEMENTS NOT DIMENSIONED ON THE STRUCTURAL PLANS AND DETAILS SHALL BE LOCATED BY THE ARCHITECTURAL PLANS AND DETAILS. VERTICAL DIMENSION CONTROL IS DEFINED BY THE ARCHITECTURAL WALL SECTIONS, BUILDING SECTION, AND PLANS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
- 6. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS. CONFORM TO ASCE 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION".
- NOTE OF THE CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
- 8. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. ALL TYPICAL NOTES AND DETAILS SHOWN ON DRAWINGS SHALL APPLY. UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE PLANS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO TYPICAL DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED OR REQUEST ADDITIONAL INFORMATION. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.
- 9. ALL STRUCTURAL SYSTEMS, WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED, SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, PREPARED BY THE SUPPLIER.

QUALITY ASSURANCE

10. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS 110 AND 1705 OF THE INTERNATIONAL BUILDING CODE BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT, AND RETAINED BY THE BUILDING OWNER. THE ARCHITECT, STRUCTURAL ENGINEER, AND TEST RESULTS. SPECIAL INSPECTION OF THE FOLLOWING TYPES OF CONSTRUCTION IS REQUIRED UNLESS NOTED OTHERWISE.

EXPANSION BOLTS AND THREADED EXPANSION INSERTS PER MANUFACTURER PER MANUFACTURER EPOXY GROUTED INSTALLATIONS

PERIODIC INSPECTION: INSPECTION SHALL BE PERFORMED AT INTERVALS NECESSARY TO CONFIRM THAT WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE WITH REQUIREMENTS.

CONTINUOUS INSPECTION: INSPECTOR SHALL BE ONSITE AND OBSERVE THE WORK REQUIRING INSPECTION AT ALL TIMES THAT WORK IS PERFORMED.

- 11. UNLESS OTHERWISE NOTED, THE FOLLOWING ELEMENTS COMPRISE THE SEISMIC-FORCE-RESISTING SYSTEM AND ARE SUBJECT TO SPECIAL INSPECTION FOR SEISMIC RESISTANCE IN ACCORDANCE WITH SECTION 1705. 12 OF THE INTERNATIONAL BUILDING CODE.
- A. STRUCTURAL WOOD SHEAR WALL SYSTEMS REQUIRE PERIODIC INSPECTION FOR FIELD GLUING. NAILING. BOLTING. ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC FORCE, RESISTING SYSTEM INCLUDING SHEAR WALLS, DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLDOWNS.

GEOTECHNICAL

ASSUMED AND THEREFORE MUST BE VERIFIED BY A QUALIFIED SOILS ENGINEER OR APPROVED BY THE BUILDING OFFICIAL. IF SOILS ARE FOUND TO BE OTHER THAN ASSUMED, NOTIFY THE STRUCTURAL ENGINEER FOR POSSIBLE FOUNDATION REDESIGN.

FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH AT LEAST 18" BELOW ADJACENT FINISHED GRADE. UNLESS OTHERWISE NOTED, FOOTINGS SHALL BE CENTERED BELOW COLUMNS OR WALLS ABOVE.

PROVIDE FOR SUBSURFACE DRAINAGE.

ALLOWABLE SOIL PRESSURE	1500 PSF
LATERAL FARTH RECOURT (INDECTRAINER)	SE DOE
LATERAL EARTH PRESSURE (UNRESTRAINED)	35 PUF
ALLOWABLE PASSIVE EARTH PRESSURE (FS OF 1.5 INCLUDED)	350 PCF
COEFFICIENT OF FRICTION (FS OF 1.5 INCLUDED)	0. 45
SEISMIC SURCHARGE PRESSURE (UNIFORM LOAD)	

CONCRETE

- 13. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301, INCLUDING TESTING PROCEDURES. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF f'c = 3,000 PSI AND MIX SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS. REQUIRED CONCRETE STRENGTH IS BASED ON THE DURABILITY REQUIREMENTS OF SECTION 1904 OF THE IBC. DESIGN STRENGTH IS f'c = 2,500
- 14. ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER OR STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, AND C618. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-14, TABLE 19.3.2.1 MODERATE EXPOSURE, F1.
- 15. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, FY = 60,000 PSI. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. SPIRAL REINFORCEMENT SHALL BE DEFORMED WIRE CONFORMING TO ASTM A615, GRADE 60, FY = 60,000 PSI.
- 16. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315R-18 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 40 BAR DIAMETERS OR 2'-O" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318-14, CLASS B. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.

17. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#5 BARS OR SMALLER). . 1-1/2'

18. CONCRETE WALL REINFORCING--PROVIDE THE FOLLOWING UNLESS DETAILED OTHERWISE:

#4 @ 12 HORIZ. #4 @ 18 VERTICAL 1 CURTAIN

- 19. CAST-IN-PLACE CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MISCELLANEOUS MECHANICAL OPENINGS THROUGH CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES, BOTH CAST-IN-PLACE AND PRECAST.
- 20. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3000 PSI MINIMUM)

ANCHORAGE

- DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS 21. EXPANSION BOLTS INTO CONCRETE SHALL BE "STRONG-BOLT 2" WEDGE ANCHORS AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY AND INSTALLED IN STRICT CONFORMANCE TO ICC-ES REPORT NUMBER ESR-3037, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. PERIODIC SPECIAL INSPECTION IS REQUIRED TO VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, ANCHOR LOCATION, TIGHTENING TORQUE, HOLE DIMENSIONS, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS.
- BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND 22. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "SET-XP" HIGH STRENGTH EPOXY AS MANUFACTURED BY THE SIMPSON STRONG, TIE COMPANY. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2508. MINIMUM BASE MATERIAL TEMPERATURE IS 50 DEGREES, F. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED. PERIODIC SPECIAL INSPECTION OF INSTALLATION IS REQUIRED TO VERIFY ANCHOR OR EMBEDDED BAR TYPE AND DIMENSIONS, LOCATION, ADHESIVE IDENTIFICATION AND EXPIRATION, HOLE DIMENSIONS, HOLE CLEANING PROCEDURE, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR HORIZONTAL AND OVERHEAD INSTALLATIONS.
 - 23. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "AT-XP" AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY. INSTALL IN STRICT ACCORDANCE WITH IAMPO REPORT NO. ER-0281. MINIMUM BASE MATERIAL TEMPERATURE IS 14 DEGREES, F. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED. PERIODIC SPECIAL INSPECTION OF INSTALLATION IS REQUIRED TO VERIFY ANCHOR OR EMBEDDED BAR TYPE AND DIMENSIONS, LOCATION, ADHESIVE IDENTIFICATION AND EXPIRATION, HOLE DIMENSIONS, HOLE CLEANING PROCEDURE, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR HORIZONTAL AND OVERHEAD INSTALLATIONS.

. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE 12. FOUNDATION NOTES: ALLOWABLE SOIL PRESSURE AND LATERAL EARTH PRESSURE ARE 24. CONCRETE SCREW ANCHORS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE "TITEN HD" HEAVY DUTY SCREW ANCHOR AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY, INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2713 (CONCRETE), NO. ESR-1056 (CMU), INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. SCREW ANCHORS INTO CONCRETE MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. SPECIAL INSPECTION IS REQUIRED.

BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING, GRANULAR FILL AND 25. FRAMING LUMBER SHALL BE S-DRY, KD, OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH WCLIB STANDARD No. 17. GRADING RULES FOR WEST COAST LUMBER, 2018, OR WWPA STANDARD, WESTERN LUMBER GRADING RULES 2017. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

JOISTS AND BEAMS	(2X & 3X MEMBERS)	HEM-FIR NO. 2
AND DEAMS	(4X MEMBERS)	MINIMUM BASE VALUE, Fb = 850 PSI DOUGLAS FIR-LARCH NO. 1
25.1112	,	MINIMUM BASE VALUE, Fb = 1000 PSI
BEAMS	(INCL. 6X AND LARGER)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1350 PSI
POSTS	(4X MEMBERS)	DOUGLAS FIR-LARCH NO. 2 MINIMUM BASE VALUE, Fc = 1350 PSI
	(6X AND LARGER)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fc = 1000 PSI
STUDS, PLAT	ES & MISC. FRAMING:	DOUGLAS FIR-LARCH NO. 2 OR HEM-FIR NO. 2

- 26. GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND ANSI/AITC STANDARDS. EACH MEMBER SHALL BEAR AN AITC OR APA IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN AITC OR APA CERTIFICATE OF CONFORMANCE. ALL SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V4, Fb = 2,400 PSI, Fv =265 PSI. ALL CANTILEVERED BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V8, Fb = 2400 PSI, Fv = 265 PSI. CAMBER ALL SIMPLE SPAN GLULAM BEAMS, WITH SPANS OVER 30', TO 3,500' RADIUS, UNLESS SHOWN OTHERWISE ON THE PLANS.
- 27. MANUFACTURED LUMBER, PSL, LVL, AND LSL SHOWN ON PLAN ARE BASED PRODUCTS MANUFACTURED BY THE WEYERHAEUSER CORPORATION IN ACCORDANCE WITH ICC-ES REPORT ESR-1387. MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

PSL (2.0E WS) Fb = 2900 PSI, E = 2000 KSI, Fv = 290 PSILVL (2.0E-2600FB WS) Fb = 2600 PSI, E = 2000 KSI, Fv = 285 PSI Fb = 2325 PSI, E = 1550 KSI, Fv = 310 PSI

ALTERNATE MANUFACTURED LUMBER MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE MANUFACTURER'S PRODUCTS SHALL BE COMPATIBLE WITH THE JOIST HANGERS AND OTHER HARDWARE SPECIFIED ON PLANS, OR ALTERNATE HANGERS AND HARDWARE SHALL SUBMITTED FOR REVIEW AND APPROVAL. SUBSTITUTED ITEMS SHALL HAVE ICC-ES REPORT APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES.

MANUFACTURED LUMBER PRODUCTS SHALL BE INSTALLED WITH A MOISTURE CONTENT OF 12% OR LESS. THE CONTRACTOR SHALL MAKE PROVISIONS DURING CONSTRUCTION TO PREVENT THE MOISTURE CONTENT OF INSTALLED BEAMS FROM EXCEEDING 12%. EXCESSIVE DEFLECTIONS MAY OCCUR IF MOISTURE CONTENT EXCEEDS THIS VALUE.

- 28. PREFABRICATED OPEN WEB WOOD TRUSSES (OR COMBINATION WOOD AND METAL) SHALL BE DESIGNED BY THE MANUFACTURER FOR THE SPANS AND CONDITIONS SHOWN ON THE PLANS AND SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S PUBLISHED SPECIFICATIONS. ALL NECESSARY BRIDGING. BLOCKING, BLOCKING PANELS, STIFFENERS, ETC., SHALL BE DETAILED AND FURNISHED BY THE MANUFACTURER. SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO 35. WOOD FASTENERS FABRICATION. DESIGN SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF A REGISTERED PROFESSIONAL ENGINEER, STATE OF WASHINGTON. PERMANENT AND TEMPORARY BRIDGING SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 29. PREFABRICATED CONNECTOR PLATE WOOD ROOF TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE "NATIONAL DESIGN STANDARD FOR METAL PLATE-CONNECTED WOOD TRUSS CONSTRUCTION, ANSI/TPI 1" BY THE TRUSS PLATE INSTITUTE FOR THE SPANS AND CONDITIONS SHOWN ON THE PLANS. LOADING SHALL BE AS FOLLOWS:

TOP CHORD LIVE LOAD TOP CHORD DEAD LOAD BOTTOM CHORD DEAD LOAD TOTAL LOAD	25 PSF 10 PSF 5 PSF 40 PSF
WIND UPLIFT (TOP CHORD) BOTTOM CHORD LIVE LOAD (BOTTOM CHORD LIVE LOAD DOES CONCURRENTLY WITH THE ROOF LI	

WOOD TRUSSES SHALL UTILIZE APPROVED CONNECTOR PLATES (GANGNAIL OR EQUAL). SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. SUBMITTED DOCUMENTS SHALL BE SIGNED AND STAMPED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON. PROVIDE FOR SHAPES, BEARING POINTS, INTERSECTIONS, HIPS, VALLEYS, ETC., SHOWN ON THE DRAWINGS. EXACT COMPOSITION OF SPECIAL HIP, VALLEY, AND INTERSECTION AREAS (USE OF GIRDER TRUSSES, JACK TRUSSES, STEP-DOWN TRUSSES, ETC.) SHALL BE DETERMINED BY THE MANUFACTURER UNLESS SPECIFICALLY INDICATED ON THE PLANS. PROVIDE ALL TRUSS TO TRUSS AND TRUSS TO GIRDER TRUSS CONNECTION DETAILS AND REQUIRED CONNECTION MATERIALS. PROVIDE FOR ALL TEMPORARY AND PERMANENT TRUSS BRACING AND BRIDGING.

30. PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, 36. NOTCHES AND HOLES IN WOOD FRAMING EXTERIOR GLUE IN CONFORMANCE WITH DOC PS 1 OR PS 2. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND PANEL INDEX MAY BE USED IN LIEU OF PLYWOOD.

ROOF SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 32/16

FLOOR SHEATHING SHALL BE 3/4" (NOMINAL) WITH SPAN RATING 48/24.

WALL SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 24/0.

PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING.

REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REQUIREMENTS.

- 31. ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY.
- 32. PRESERVATIVE TREATED WOOD SHALL BE TREATED PER AWPA STANDARD U1 TO THE USE CATEGORY EQUAL TO OR HIGHER THAN THE INTENDED APPLICATION. TREATED WOOD FOR ABOVE GROUND USE SHALL BE TREATED TO AWPA UC3B. WOOD IN CONTINUOUS CONTACT WITH FRESH WATER OR SOIL SHALL BE TREATED TO AWPA UC4A. WOOD FOR USE IN PERMANENT FOUNDATIONS SHALL BE TREATED TO AWPA UC4B.
- 33. FASTENERS AND TIMBER CONNECTORS USED WITH TREATED WOOD SHALL HAVE CORROSION RESISTANCE AS INDICATED IN THE FOLLOWING TABLE. UNLESS OTHERWISE

WOOD TREATMENT HAS NO AMMONIA CARRIER CONTAINS AMMONIA CARRIER	CONDITION INTERIOR DRY INTERIOR DRY	PROTECTION G90 GALVANIZED G185 OR A185 HOT DIPPED OR CONTINUOUS HOT-GALVANIZED PER ASTM A653
CONTAINS AMMONIA CARRIER	INTERIOR WET	TYPE 304 OR 316 STAINLESS
CONTAINS AMMONIA CARRIER	EXTERIOR	TYPE 304 OR 316 STAINLESS
AZCA	ANY	TYPE 304 OR 316 STAINLESS

INTERIOR DRY CONDITIONS SHALL HAVE WOOD MOISTURE CONTENT LESS THAN 19%. WOOD MOISTURE CONTENT IN OTHER CONDITIONS (INTERIOR WET, EXTERIOR WET, AND EXTERIOR DRY) IS EXPECTED TO EXCEED 19%. CONNECTORS AND THEIR FASTENERS SHALL BE THE SAME MATERIAL. COMPLY WITH THE TREATMENT MANUFACTURERS RECOMMENDATIONS FOR PROTECTION OF METAL.

- 34. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-C-2019. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER FOR MAXIMUM LOAD CARRYING CAPACITY. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ALL 2X JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "LUS" SERIES JOIST HANGERS. ALL TJI JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "ITS" SERIES JOIST HANGERS. ALL DOUBLE-JOIST BEAMS SHALL BE CONNECTED TO FLUSH BEAMS WITH "MIT" SERIES JOIST HANGERS.

WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER.

ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM)AS MEMBERS CONNECTED

A. NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

SIZE	LENGTH	DIAMETE
512L 6d	2"	0. 113"
3d Bd	_	0. 113
	2-1/2" 3"	
10d	5	0. 148"
12d	3-1/4"	0. 148"
16d B0X	3-1/2"	0. 135"

IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL.

NAILS - PLYWOOD (APA RATED SHEATHING) FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END.

B. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG BOLTS BEARING ON WOOD. INSTALLATION OF LAG BOLTS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH A LEAD BORE HOLE OF 60 TO 70 PERCENT OF THE SHANK DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER LAG SCREWS.

- NOTCHES ON THE ENDS OF SOLID SAWN JOISTS AND RAFTERS SHALL NOT EXCEED ONE-FOURTH THE JOIST DEPTH. NOTCHES IN THE TOP OR BOTTOM OF SOLID SAWN JOISTS SHALL NOT EXCEED ONE-SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. HOLES BORED IN SOLID SAWN JOISTS AND RAFTERS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST. AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE JOIST.
- B. IN EXTERIOR WALLS AND BEARING PARTITIONS, ANY WOOD STUD IS PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD WIDTH IS PERMITTED TO BE BORED IN ANY WOOD STUD. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8 INCH TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.
- NOTCHES AND HOLES IN MANUFACTURED LUMBER AND PREFABRICATED PLYWOOD WEB JOISTS SHALL BE PER THE MANUFACTURERS RECOMMENDATIONS UNLESS OTHERWISE

37. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE

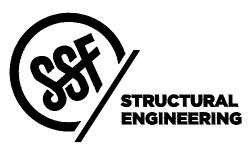
- ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE. THE AITC "TIMBER CONSTRUCTION MANUAL" AND THE AWC "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION". MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO IBC TABLE 2304.10.1. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.
- B. WALL FRAMING: REFER ARCHITECTURAL DRAWINGS FOR THE SIZE OF ALL WALLS. ALL STUDS SHALL BE SPACED AT 16" O.C. UNO. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS, AND AT BEAM OR HEADER BEARING LOCATIONS. TWO 2x8 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS NOT OTHERWISE NOTED. SOLID BLOCKING FOR WOOD COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. PROVIDE CONTINUOUS SOLID BLOCKING AT MID-HEIGHT OF ALL STUD WALLS OVER 10'-0" IN HEIGHT.

ALL WALLS SHALL HAVE A SINGLE BOTTOM PLATE AND A DOUBLE TOP PLATE. END NAIL TOP PLATE TO EACH STUD WITH TWO 16d NAILS, AND TOENAIL OR END NAIL EACH STUD TO BOTTOM PLATE WITH TWO 16d NAILS. FACE NAIL DOUBLE TOP PLATE WITH 16d @ 12"O.C. AND LAP MINIMUM 4'-O"AT JOINTS AND PROVIDE EIGHT 16d NAILS @ 4" O.C. EACH SIDE JOINT.

ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH TWO ROWS OF 16d NAILS @ 12" ON-CENTER, OR ATTACHED TO CONCRETE BELOW WITH 5/8" DIAMETER ANCHOR BOLTS @ 4'-0" ON-CENTER EMBEDDED 7" MINIMUM, UNLESS INDICATED OTHERWISE. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TO EACH OTHER WITH TWO ROWS OF 16d @12" ON-CENTER. UNLESS OTHERWISE NOTED, GYPSUM WALLBOARD SHALL BE FASTENED TO THE INTERIOR SURFACE OF ALL STUDS AND PLATES WITH NO. 6 X 1-1/4" TYPE S OR W SCREWS @ 8" ON-CENTER. UNLESS INDICATED OTHERWISE, 1/2" (NOMINAL) APA RATED SHEATHING (SPAN RATING 24/0) SHALL BE NAILED TO ALL EXTERIOR SURFACES WITH 8d NAILS @ 6" ON-CENTER AT PANEL EDGES AND TOP AND BOTTOM PLATES (BLOCK UN-SUPPORTED EDGES) AND TO ALL INTERMEDIATE STUDS AND BLOCKING WITH 8d NAILS @ 12" ON-CENTER ALLOW 1/8" SPACING AT ALL PANEL EDGES AND PANEL ENDS.

C. FLOOR AND ROOF FRAMING: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING AT ALL BEARING POINTS. TOE-NAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI JOIST BEAMS TOGETHER WITH TWO ROWS 16d @ 12" ON-CENTER.

UNLESS OTHERWISE NOTED ON THE PLANS, PLYWOOD ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AT 6" ON-CENTER WITH 8d NAILS TO FRAMED PANEL EDGES, STRUTS AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" ON-CENTER TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d @ 12" ON-CENTER UNLESS OTHERWISE



2124 Third Avenue - Suite 100 - Seattle, WA 98121 p: 206.443.6212 ssfengineers.com

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DRAWN:	JDT	
DESIGN:	JDT	
CHECKED:	JDT	
APPROVED:	GFJ	

PROJECT TITLE:

Shelburne II 9119

William E. Buchan Homes 2630 116th Ave NE Suite 100 Bellevue, WA 98004





General Structural

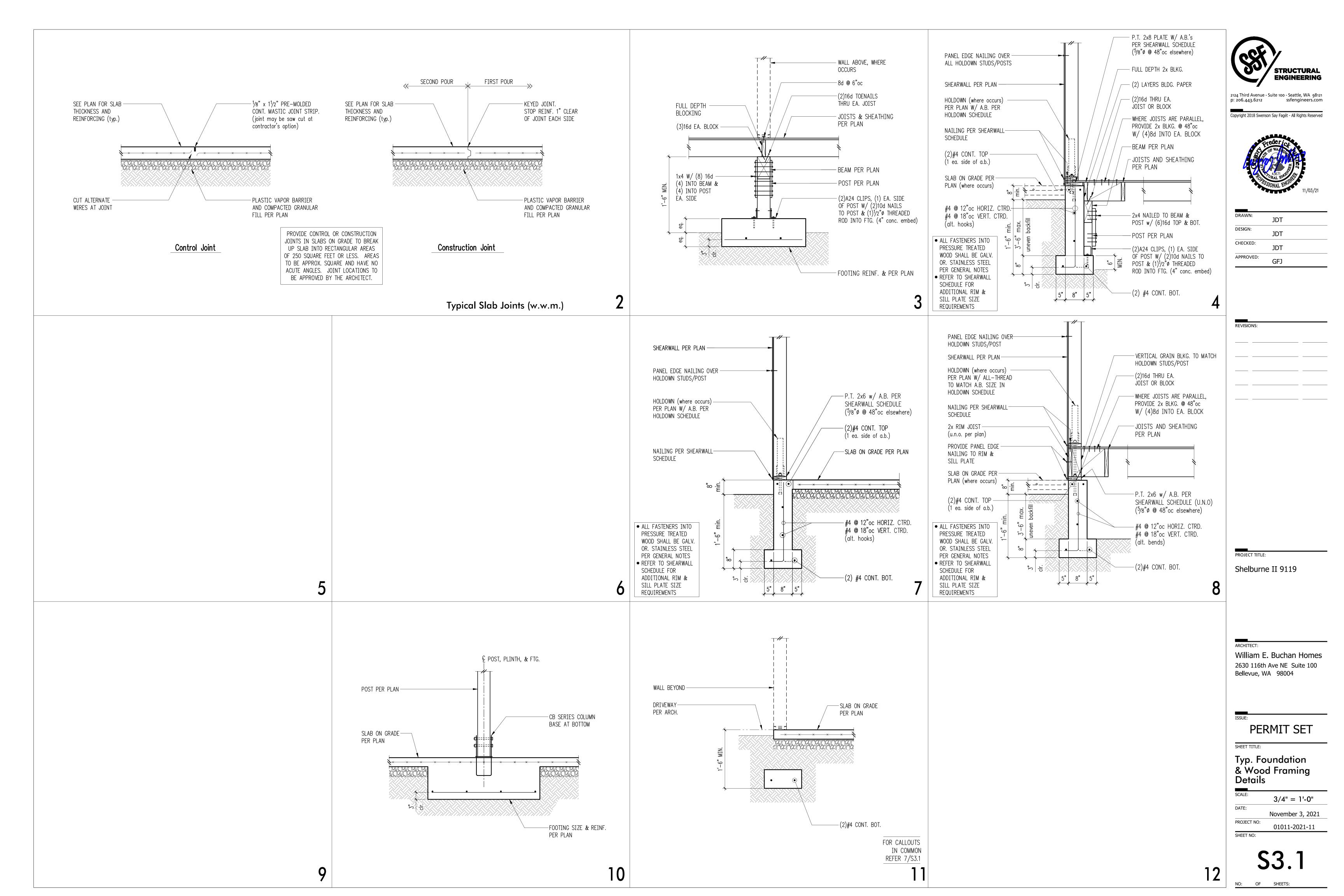
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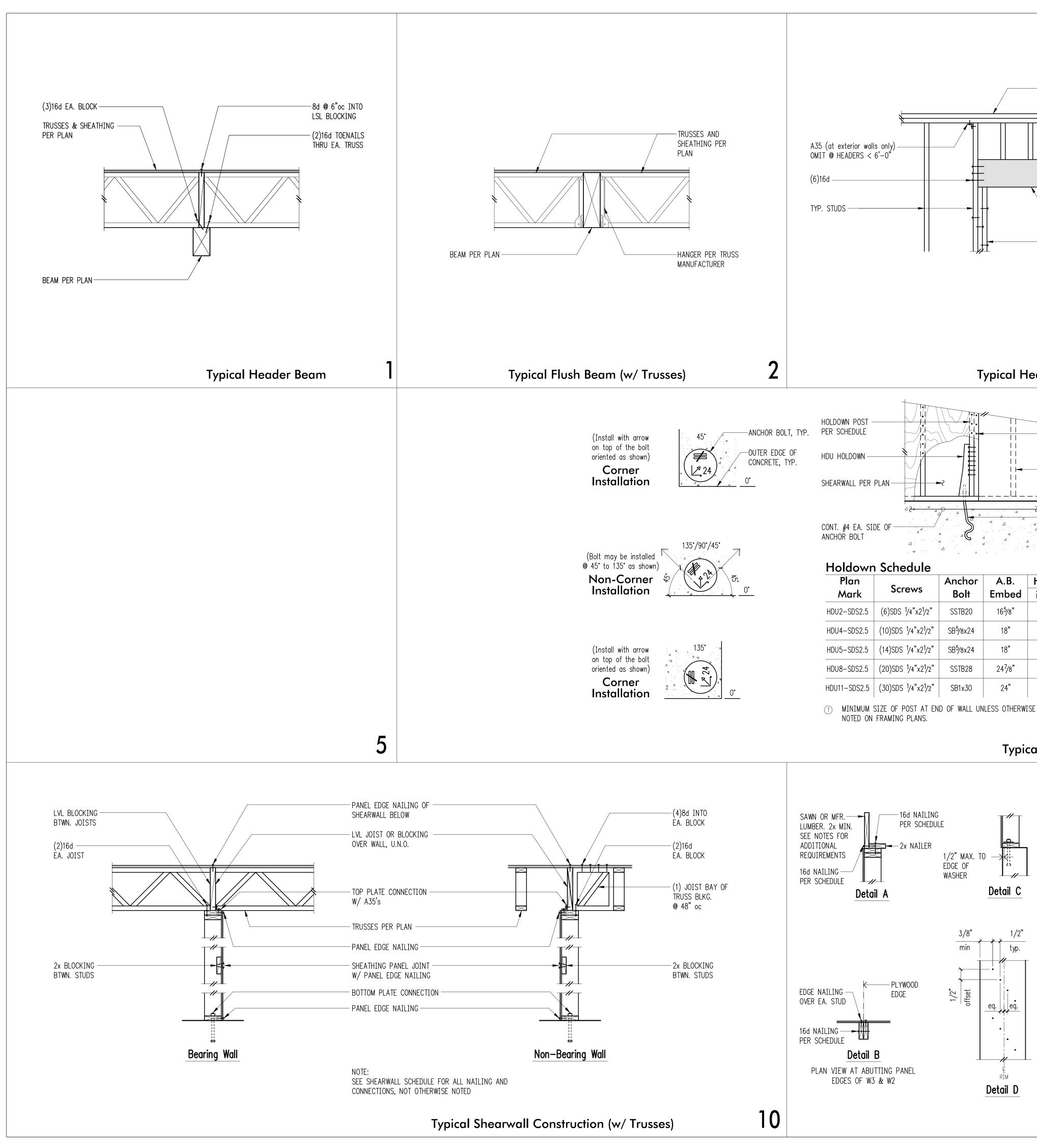
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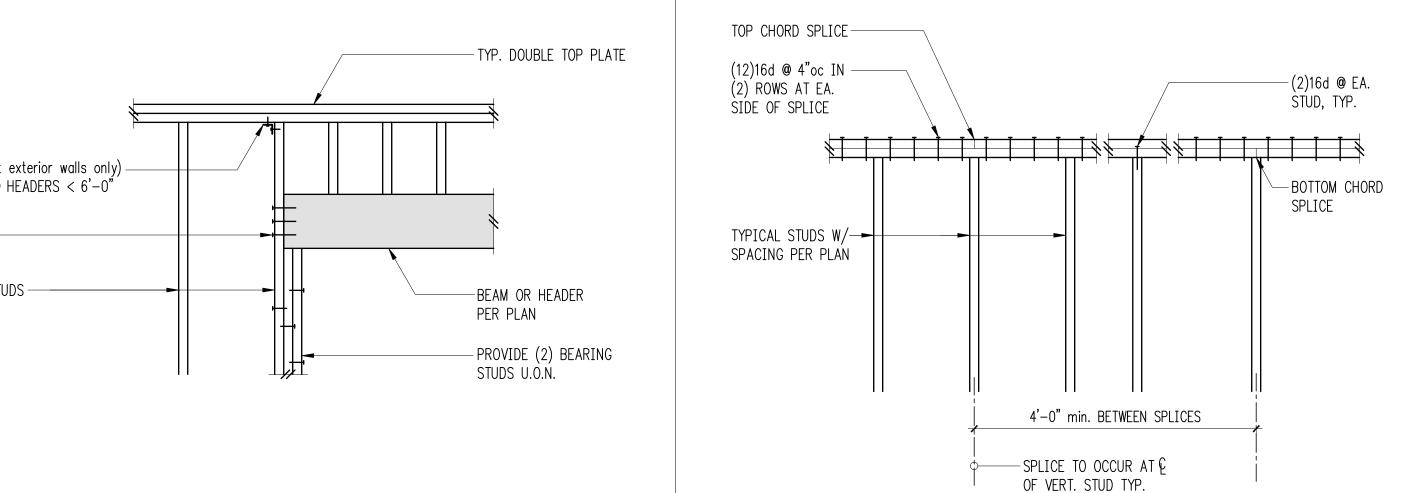
none November 3, 2021

01011-2021-11

NO: OF SHEETS:







Typical Header Support

PANEL EDGE NAILING

OVER ALL HOLDOWN

SSTB PER SCHEDULE

(2) 2x6

4x6

6x6

FRAMING CONT. WHERE OCCURS

STUDS

Holdown Post (

if 2x4 if 2x6

(2) 2x4

4x4

4x8

Embed

16⁵/8"

24⁷/8"

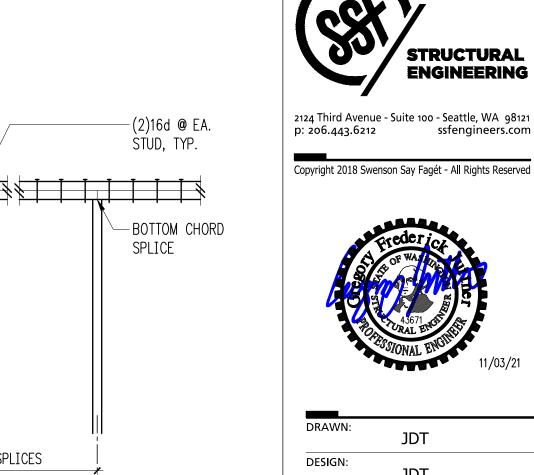
Detail C

Detail D

SSTB20

SSTB28

SB1x30



DRAWN: JDT DESIGN: CHECKED: APPROVED:

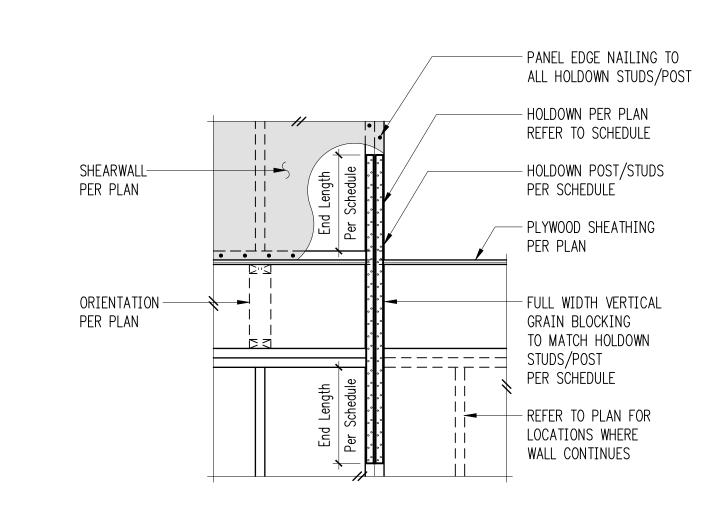
GFJ

REVISIONS:

STRUCTURAL

Holdown Strap Schedule

#Nails Ea. Holdown Studs/Post if 2x6 if 2x4 Mark End Length Length (1) 2x6 (1) 2x4 CS16 1'-2" (13) 8d



Typical Top Plate Splice

PROJECT TITLE:

Shelburne II 9119

William E. Buchan Homes

PERMIT SET

2630 116th Ave NE Suite 100

Bellevue, WA 98004

Wood Framing

Details

Typical HDU Holdown Typical Holdown Schedule

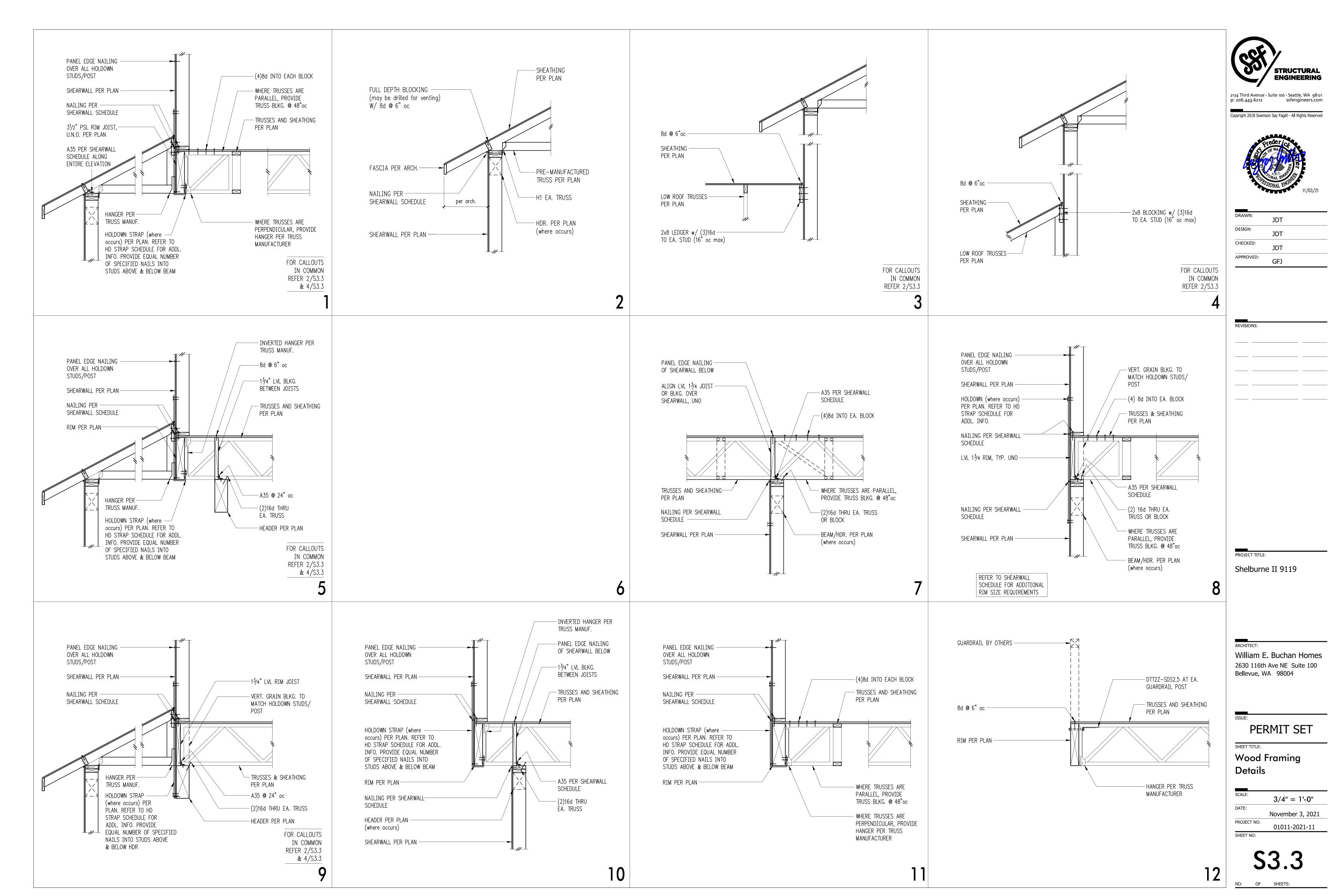
A A ====l =	Cl4l-:	Panel Edge	Top Plate C	Connection	Base Plate Connection		
Mark	Sheathing	Nailing	if TJI	if Wood [®]	at Wood 🗥 🗓	at Concrete	
W6	15/32" CDX PLYWOOD	8d @ 6"oc	16d @ 6"oc	A35 @ 24"oc 10	16d @ 6"oc	⁵ /8"ø A.B. @ 48"oc	
W4	15/32" CDX PLYWOOD	8d @ 4"oc	16d @ 4"oc	A35 @ 16"oc ¹⁰	(2)rows 16d @ 6"oc	⁵ /8"ø A.B. @ 32"oc	
W3 4	15/32" CDX PLYWOOD	8d @ 3"oc	(2)rows 16d @ 4"oc	A35 @ 12"oc ^①	(2)rows 16d @ 6"oc	⁵ /8"ø A.B. @ 24"oc	
W2 ⁴	15/32" CDX PLYWOOD	8d @ 2"oc	(2)rows 16d @ 4"oc	A35 @ 9"oc ¹⁰	(2)rows 16d @ 4"oc ^①	⁵ /8"ø A.B. @ 16"oc	
2W3 ^⑤	15/32" CDX PLYWD. EA. SIDE	8d @ 3"oc EA. SIDE	n/a	A35 @ 6"oc	(3)rows 16d @ 4"oc ⁽¹⁴⁾	⁵ /8"ø A.B. @ 16"oc	
2W2 ^⑤	15/32" CDX PLYWD. EA. SIDE	8d @ 2"oc EA. SIDE	n/a	HGA10KT @ 8"oc	(3)rows 16d @ 4"oc ⁽¹⁴⁾	⁵ /8"ø A.B. @ 12"oc	
2W2-10 ^⑤	15/32" CDX PLYWD. EA. SIDE	10d @ 2"oc EA. SIDE	n/a	HGA10KT @ 6"oc	(4)rows 16d @ 4"oc ⁽¹⁴⁾	⁵ /8"ø A.B. @ 12"oc	

- ① BLOCK PANEL EDGES WITH 2x MIN. LAID FLAT AND NAIL PANELS TO INTERMEDIATE SUPPORTS WITH 8d @ 12"o.c.
- ② 8d NAILS SHALL BE 0.131"ø x 2 1/2" (common) 16d NAILS SHALL BE 0.135"ø x 3 1/2" (box) 10d NAILS SHALL BE 0.148"ø x 3" (common).
- ③ EMBED ANCHOR BOLTS AT LEAST 7". EXPANSION BOLTS MAY BE SUBSTITUTED FOR ANCHOR BOLTS WITH 4" EMBEDMENT. TITEN HD SCREW ANCHORS MAY BE SUBSTITUTED FOR ANCHOR BOLTS W/ 4" EMBEDMENT. ALL BOLTS SHALL HAVE 3" x 3" x 1/4" MIN. PLATE WASHERS. PLATE WASHERS SHALL EXTEND TO
- SEE DETAIL B. WHERE 3x STUDS ARE USED FOR W2, STAGGER NAILS AT ADJOINING PANEL EDGES. ⑤ 3x FOUNDATION SILL PLATES ARE REQUIRED FOR 2W3 AND 2W2. 3x STUDS ARE REQUIRED AT ABUTTING PANEL EDGES AND PANEL JOINTS
- SHALL BE OFFSET EACH SIDE OF WALL. STAGGER NAILS AT ADJOINING PANEL EDGES. 3x STUD, MIN., REQUIRED AT END OF SHEARWALL.
- ⑥ TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SINGLE-SIDED SHEARWALLS. ALL END STUDS SHALL RECEIVE PANEL EDGE NAILING.
- SEE PLANS AND HOLDOWN SCHEDULE FOR ALTERNATE REQUIREMENTS.
- ② ALL EXTERIOR WALLS SHALL BE W6, UNLESS NOTED OTHERWISE.
- ® 7/16" O.S.B. MAY BE SUBSTITUTED FOR 15/32" CDX, EXCEPT AT 10d PANEL EDGE NAILING.
- UTP4's (HORIZONTAL ORIENTATION) W/ 8d COMMON MAY BE SUBSTITUTED FOR A35's AT CONTRACTORS OPTION.
- ① A 2x NAILER ATTACHED W/ BASE PLATE NAILING PER DETAIL A MAY BE SUBSTITUTED FOR A35's AT CONTRACTORS OPTION.
- 11) AT MULTI-ROW NAILING, MINIMUM OFFSET BETWEEN ROWS AND ROW SPACING 1/2", SEE DETAIL D.
- ① LVL RIMS PERMITTED AT SINGLE SIDED SHEAR WALLS ONLY. (3) PROVIDE (3) ROWS 16d @ 6"oc AT LVL RIMS.
- (4) MINIMUM RIM OR JOIST 31/2" WIDE BELOW SHEARWALL.

November 3, 2021 PROJECT NO: 01011-2021-11

3/4" = 1'-0"

Shearwall Schedule



mie Bu	chan			Site	addre			h St, Mercer Island, WA ay 5, 2022 ISA certified	l arborist		mas Qu 655A,
			Drip	line	Rad	ius '	5				
Tree#	Species	DBH"	N	S	E	w	Cndtn	Comments		Rmv	Rtn
	Psuedotsuga menziessii,										
1	Douglasfir	21.6	17	10	17		Good	Shared canopy with Tree OS3.			Χ
2	Cornus Florida, Flowering Dogwood	10.3	8	8	8	8	Fair	Dogwood leaf fungal issues, typical of species.		х	
OS 1	Pinus, Pine sp	12.0 est.	6	6		8	Fair	Off-site (OS) but with overhanging limb(s). Shard canopy with Tree OS2.	Off-site		
OS 2	Pinus, Pine sp	10.0 est.	6	8		6	Fair	Off-site (OS) but with overhanging limb(s). Shared canopy with Tree OS1	Off-site		
OS 3	Psuedotsuga menziessii, Douglas fir	24.0 est	8	8	18		Good	Off-site (OS) but with overhanging limb(s). 18' oveerhanging east of property line. Shared canopy.	Off-site		
OS 4	Psuedotsuga menziessii, Douglas fir	13.0	8	8	5		Good	Off-site (OS) but with overhanging limb(s). In canopy of OS3 and OS4.	Off-site		
OS 5	Psuedotsuga menziessii, Douglas fir	30.0	10	25	20		Good	Off-site (OS) but with overhanging limb(s). 18'limb extension east of property line.	Off-site	51	
OS 6	Prunus, Flowering cherry	18.0 est				12	Good	Overhang of limbs is 12' west, but could easily be pruned back to 5'	Off-site		
ROW	Acer palmatum, Japanese Jaceleaf maple	8.0	6	6	5	5	Good	Located in the Right-of-Way (ROW)	ROW		
ROW	Madrone	5.0	12	0	6	4	Poor	Leans 30 degrees north toward street. Under canopy of Tree #1	ROW		

TREE PROTECTION AREA (TPZ)

KEEP OUT!

DO NOT REMOVE OR ADJUST THE APPROVED LOCATION OF THIS TREE PROTECTION AREA

Trees enclosed by this fence are protected and are subject to the conditions of the tree permit. Violation of tree conditions may lead to:

1. Correction Notices or Stop Work Orders until compliance is achieved

Crown drip line or other limit of Tree Protection area. See

2. RE Inspection Fees 3. Arborist reports recommending mitigation

No pruning shall be preformed unless under the direction of an arborist No equipment shall be stored or operated inside the protective fencing including during fence installation and removal

No storage of materials shall occur inside the protective fencing Refer to Site/Utility Plan for allowable modifications to the tree protection area.

Unauthorized activities in tree protection area may require evaluation by private arborist to identify

impacts and mitigation required Exposed roots: For roots > 1" damaged during construction, make a clean straight cut to remove

> Tree protection fence: 4-6" chain link fence, solidly anchored into the ground, or if authorized High-density polyethylene fencing with 3.5" x 1.5" openings; color

orange. Steel posts installed at 8' o.c.

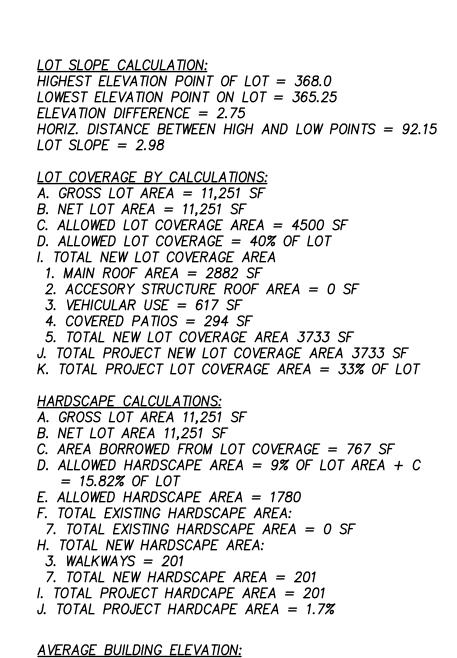
2" x 6" steel posts or approved equal

unless otherwise indication on the plans

Maintain existing grade with the tree protection fence

Any Work in the protected area must be with the permission of the City Arborist john.kenney@mercergov.org

- All of the protection fencing should be installed prior to any demolition work or other site work. Signage that explains the tree protection zone shall be installed as detailed on Plan Sheet 'S'.
- The installation of tree protection for Off-Site Tree #5 will be more involved in-so-much as the existing structure currently intrudes into the proposed tree protection zone. The tree protection for this tree should be initially installed as close to the existing structure as possible, while still leaving room for the demolition process.
- The removal of the existing concrete foundation in this area is likely to reveal roots from Tree #OS-5 right up against the foundation wall; every effort should be made not to damage these roots.
- Once the concrete is removed, the tree protection fence should be moved to provide for protection of any revealed roots.
- The removal of the concrete in this area, as well as the re-location of the tree protection fencing in this area should be completed under the supervision or monitoring of a tree professional.
- Any roots that are exposed and in need of removal should be severed using proper pruning tools and by the use of techniques as detailed in ANSI Standard A300 (Part 8)-2013 Root Management.
- If any limbs of any of the trees need to be pruned or removed in order to provide construction clearance, said pruning should be undertaken by a tree professional. Pruning standards are detailed in ANSI Standard A300 (Part i)-2017 Pruning.



 $A = 366.65 \times 25.29 = 9272.58$ $B = 366.68 \times 2.17 = 795.69$

 $C = 366.72 \times 9.50 = 3483.84$

 $D = 366.76 \times 5.79 = 2123.54$

 $E = 366.85 \times 13.00 = 4769.05$

 $F = 366.45 \times 7.83 = 2869.30$ $G = 366.00 \times 15.17 = 5552.22$

 $H = 366.20 \times 4.50 = 1647.90$

 $I = 366.50 \times 19.00 = 6963.50$

 $K = 366.25 \times 11.00 = 4028.75$ $L = 366.55 \times 35.75 = 13,104.16$

 $M = 366.32 \times 11.50 = 4212.68$ $N = 366.31 \times 2.67 = 978.05$

 $0 = 366.30 \times 13.00 = 4761.90$

 $P = 366.31 \times 2.67 = 978.05$

 $R = 366.31 \times 2.67 = 978.05$

 $Q = 366.32 \times 14.67 = 5373.91$

 $S = 366.30 \times 19.00 = 6959.70$ $T = 366.39 \times 16.96 = 6213.97$

 $U = 366.48 \times 12.50 = 4581.00$

 $V = 366.57 \times 14.50 = 5315.26$

TOTAL BUILDING HEIGHT = 29.45

PROPOSED RIDGE HEIGHT = 395.9

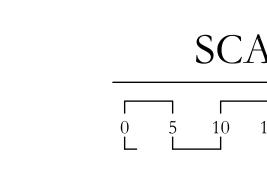
MAIN FLOOR ELEVATION = 369.47

ALLOWABLE BUILDING HEIGHT = 396.45

HIGH GAR. SLAB ELEVATION = 368.68

AVG. BUILDING ELEVATION (ABE) = 95695.84/261.14 = 366.45

 $J = 366.37 \times 2.00 = 732.74$



INV SÁ-NM-E = 360.31'

SCALE: 1'' = 20'

(2) REPLACEMENT

TREES CORNUS FLORIDA

FLOWERING DOGWOOD

LEGAL DESCRIPTION

Lot 2, Block I Timberland No. 4, according to the plat thereof recorded in in Volume 41 of Plats, Page 38, of King County, Washington. Situate in the City of Mercer Island, County of King, State of Washington.

SE 60TH STREET

105.00'

CONC. WALK

PROPOSED SINGLE FAMILY

RESIDENCE

25' REAR

SETBACK

<u> 105.00'</u> -

9017 SE 60TH PI

SHELBURNI

MAIN FLOOR @ 369.47'

PATIO

TREE PROTECTION

FENCING PER DETAIL

RIM = 366.45

YNY 12" RCP E = 365.15

PROJECT INFORMATION

TAX PARCEL NUMBER: 865090-0025

PROJECT ADDRESS: 9017 SE 60TH STREET MERCER ISLAND, WA. 98040

ZONING: R-9.6 LOT SIZE: II,251 S.F.

HIGH GAR. SLAB @ 368.68

OWNER: WILLIAM E. BUCHAN INC. 2639 116TH AVE NE #100

425-828-6424

THE MARK IS A MONUMENT IN CASE AT THE EAST

END OF SE 60TH STREET, ± 150 FEET EAST OF THE

INTERSECTION OF 92ND AVENUE SE.

ELEVATION: 334.534 FEET NAVD 88

POINT ID NO. MI-1063;

CONTACT: DAVE STAVE

LAUREL HEDGE

Daves@Buchanhomes.com 425-831-5503

HIGH VOLTAGE LINE

LEXIST. WM TO BE REMOVED

r EL = 406.66'

PROPOSED

CONC. PATH

107 SF



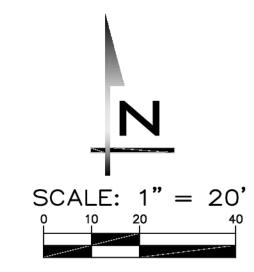
PLANE 60t

9119 5/4/22 DRAWN BY DS **ENGINEER**

SSF

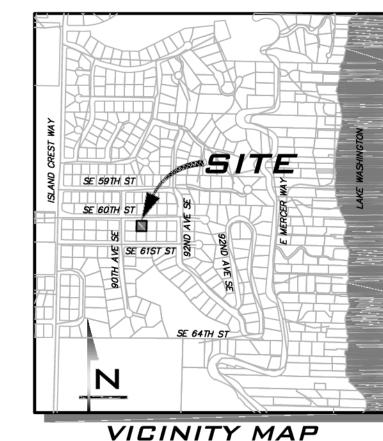
REVISION DATE X/XX/XX

9017 SE 60TH ST MERCER ISLAND SITE PLAN



N89°09'41"W

264.99'



NOT TO SCALE

LEGEND

PROPOSED FEATURES

PROPOSED STORM DRAINAGE

EXISTING FEATURES

BOUNDARY

----- SAWCUT

RIGHT-OF-WAY

— LOT LINE

— SIDEWALK

LLLLLLLLL BUILDING FOOTPRINT

— — — — — BUILDING OVERHANG

— — — — — — BUILDING SETBACK (BSBL)

---- ROOF & FOOTING DRAIN

→ ··· → ··· SWALE OR DITCH

→ SURFACE FLOW

----- - CENTERLINE ------ EASEMENT

— — — — — SURFACE FEATURES

— — — SD— *STORM DRAIN PIPE*

— — — OHP— **AERIAL POWER LINE**

☐ CATCH BASIN, TYPE I CATCH BASIN, TYPE II

SD PIPE FLOW

SS PIPE FLOW

A FIRE HYDRANT **⊞** WATER METER

M GATE VALVE -O- POWER POLE

← GUY ANCHOR

CONSTRUCTION FENCE

EXISTING UTILITY NOTE

LIMITS OF CLEARING

FILTER FENCE

CLEARED AREA

SEWER MANHOLE

— — —190— — — 10' CONTOURS

-----192----- 2' CONTOURS

— — — SS— SEWER MAIN

— — — W — WATER MAIN

— — — G— GAS MAIN

COOCCOOC ROCKERY

— — — X— WIRE FENCE RETAINING WALL

— CENTER LINE

- BUILDING ROOFLINE

---- --- ADJACENT PLAT/PARCEL LINE

---- --- --- ADJACENT RIGHT-OF-WAY

-190----- 10' PROPOSED CONTOURS

-192---- 2' PROPOSED CONTOURS

■ MAILBOX

CONCRETE

ASPHALT PAVEMENT

☑ TYPE I CB — STANDARD GRATE

EXISTING CONIFEROUS TREE

EXISTING DECIDUOUS TREE

→ DRIP LINE

CONIFEROUS TREE

DECIDUOUS TREE

EXISTING CONIFEROUS TREE

EXISTING DECIDUOUS TREE

TO BE SAVED

TO BE SAVED

TO BE REMOVED

EXISTING DECIDUO
TO BE REMOVED

ASPHALT

CONCRETE

✓ PIPE FLOW

INTERIM CATCH BASIN INTERIM CATCH BASIN
PROTECTION (INSERT)

GRAVEL

TESC FEATURES

EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO

GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE

PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO

ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE

CONTRACTOR SHALL NOTIFY <u>ONE CALL</u> AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE

APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE

AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED

▼ TYPE I CB - LOCKING LID

STORM CLEANOUT

YARD DRAIN

P POWER VAULT

∕S POWER METER

 \Box MAIL BOX

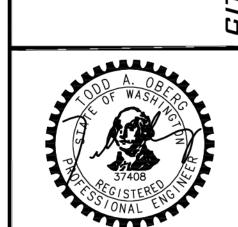
AS NOTED PROJECT MANAGER: TODD A OBERG, PE PROJECT ENGINEER: YANNICK METS, PE DESIGNER: NADIA KROUMOVA ISSUE DATE: 6/1/2022

BLUELINE

KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052

WWW.THEBLUELINEGROUP.COM

SCALE:



6/1/22 JOB NUMBER:

21-377 SHEET NAME: CV-01

LEGAL DESCRIPTION

LOT 1. BLOCK 2. TIMBERLAND NO. 4, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 60 OF PLATS, PAGE(S) 41, RECORDS OF KING COUNTY, WASHINGTON.

SITUATE IN THE CITY OF MERCER ISLAND. COUNTY OF KING, STATE OF WASHINGTON.

BASIS OF BEARING

THE PLAT OF TIMBERLAND NO. 4, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 60 OF PLATS, PAGE(S) 41, RECORDS OF KING COUNTY, WASHINGTON.

VERTICAL DATUM & CONTROL INTERVAL

ELEVATIONS SHOWN ON THIS DRAWING WERE DERIVED FROM INFORMATION

THE MARK IS A MONUMENT IN CASE AT THE EAST END OF SE 60TH STREET, ± 150 FEET EAST OF THE INTERSECTION OF 92ND AVENUE SE.

POINT ID NO. MI-1063;

ELEVATION: 334.534 FEET NAVD 88

2.0' CONTOUR INTERVAL - THE EXPECTED VERTICAL ACCURACY IS EQUAL TO 1/2 THE CONTOUR INTERVAL OR PLUS / MINUS 1.0' FOR THIS PROJECT.

SURVEY NOTES

- 1. THIS SURVEY WAS COMPLETED WITHOUT BENEFIT OF A CURRENT TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST ON THIS PROPERTY THAT ARE NOT SHOWN HEREON.
- 2. INSTRUMENTATION FOR THIS SURVEY WAS A 3-SECOND SPECTRAPRECISION FOCUS 35 TOTAL STATION. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET BY WAC 332-130-090.
- 3. THE INFORMATION ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE IN SEPTEMBER 2020 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- 4. UTILITIES SHOWN ON THIS SURVEY ARE BASED UPON ABOVE GROUND OBSERVATIONS AND AS-BUILT PLANS WHERE AVAILABLE. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES MAY VARY AND UTILITIES NOT SHOWN ON THIS SURVEY MAY EXIST ON THIS SITE.
- 5. ALL MONUMENTS WERE LOCATED DURING THIS SURVEY UNLESS OTHERWISE NOTED.

SITE DATA

HIGHEST ELEVATION OF LOT: LOWEST ELEVATION OF LOT: LOT SLOPE: 2.98% TOTAL SITE AREA: 11,251 SF ALLOWED LOT COVERAGE: PROPOSED LOT COVERAGE * 3,794 SF (33.7%) PROPOSED HARDSCAPE 201 SF (1.8%)

PROJECT IMPERVIOUS AREA: 3,995 SF (35.5%) * LOT COVERAGE INCLUDES THE COMBINATION OF BUILDINGS, INCLUDING EAVES AND ROOF OVERHANGS, AND VEHICULAR DRIVING SURFACES AS DEFINED PER MIMC 19.16.010

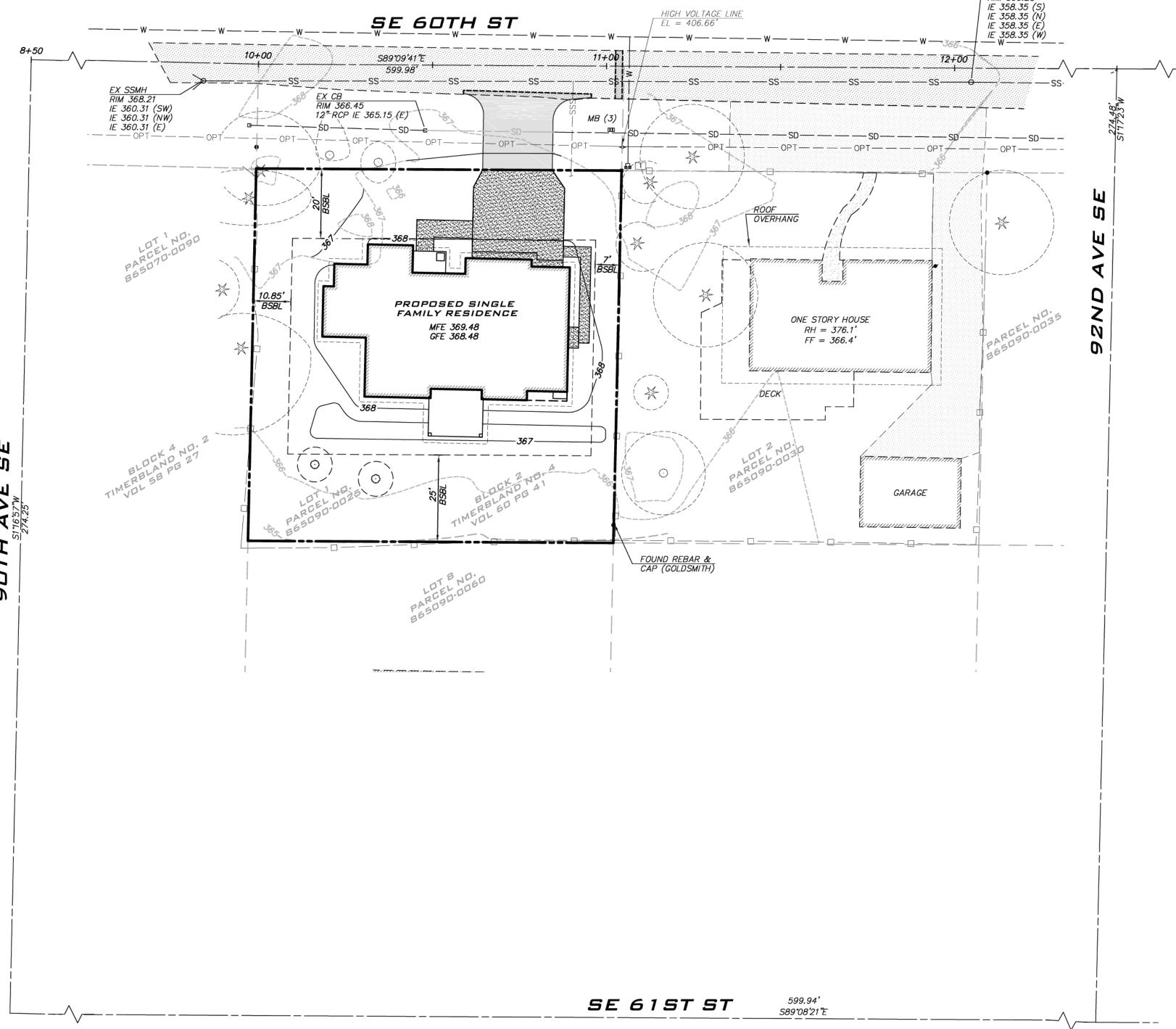
OWNER / ARCHITECT

WILLIAM E. BUCHAN INC. 2630 116 AVE NE #100 BELLEVUE, WA 98004 (425) 831–5503 CONTACT: DAVID STAVE

ENGINEER

THE BLUELINE GROUP 25 CENTRAL WAY, SUITE 400 KIRKLAND, WA 98033 (425) 250-7224 CONTACT: TODD A. OBERG, PE

GEOTECH ENGINEER TERRA ASSOCIATES, INC 12220 113TH AVE NE, SUITE 130 KIRKLAND, WA 98034 (425) 821-7777 CONTACT: CAROLYN S. DECKER, PE

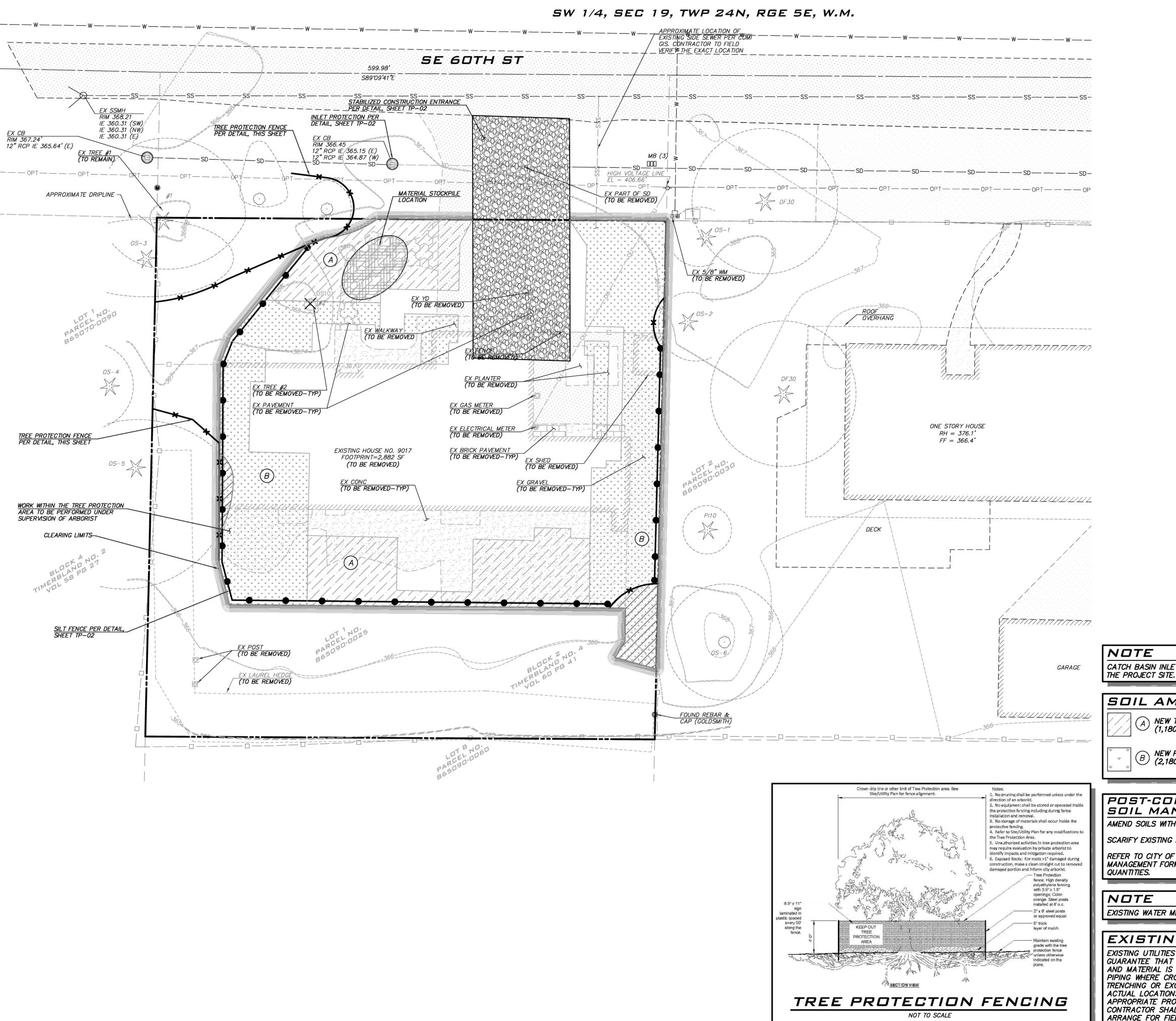


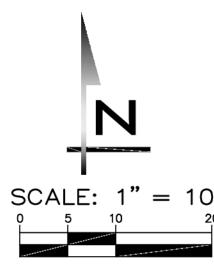
SHEET INDEX

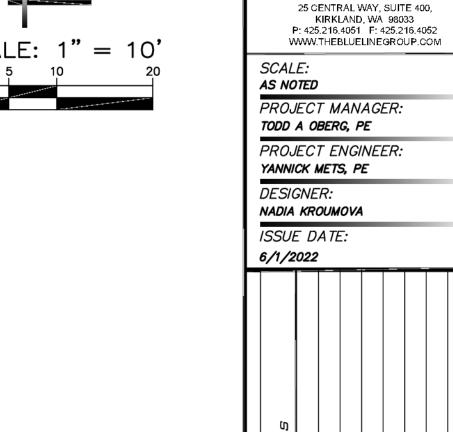
- 1 CV-01 COVER SHEET
- 2 TP-01 TESC, DRAINAGE & TREE RETENTION PLAN
- 3 TP-02 TESC NOTES & DETAILS
- 4 SP-01 SITE PLAN 5 DT-01 DETAILS

BUILDING CALCULATIONS

SEE ARCHITECTURAL SITE PLAN FOR TREE RETENTION, BUILDING HEIGHTS AND FAR CALCULATIONS.







BLUELINE

CATCH BASIN INLET PROTECTION TO BE INSTALLED UP TO 250' DOWNSTREAM OF

SOIL AMENDMENT LEGEND

A NEW TURF AREA REQUIRING AMENDMENT (1,180 SF)

B NEW PLANTING AREA REQUIRING AMENDMENT (2,180 SF)

POST-CONSTRUCTION SOIL MANAGEMENT NOTES

AMEND SOILS WITH COMPOST PER PRE-APPROVED AMENDMENT METHOD

SCARIFY EXISTING SOILS TO DEPTH OF 8 INCHES

REFER TO CITY OF MERCER ISLAND SECTION D: POST-CONSTRUCTION SOIL MANAGEMENT FORM UNDER SEPARATE COVER FOR CALCULATED AMENDMENT QUANTITIES.

NOTE

EXISTING WATER METER TO BE REMOVED AND THE SERVICE TO BE CAPPED.

EXISTING UTILITY NOTE

EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION. SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.



6/1/22 JOB NUMBER:

21-377 SHEET NAME: TP-01

A. CONDUCT PRE-CONSTRUCTION MEETING. B. FLAG OR FENCE CLEARING LIMITS.

C. POST SIGN WITH NAME AND PHONE NUMBER OF TESC SUPERVISOR.

D. INSTALL CATCH BASIN PROTECTION IF REQUIRED. E. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).

F. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).

G. CONSTRUCT SEDIMENT PONDS AND TRAPS.

H. GRADE AND STABILIZE CONSTRUCTION ROADS. I. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.

J. MAINTAIN EROSION CONTROL MEASURE IN ACCORDANCE WITH CITY OF MERCER ISLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS. K. RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE

CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY TESC MINIMUM REQUIREMENTS. L. COVER ALL AREAS WITHIN THE SPECIFIED TIME FRAME WITH STRAW, WOOD FIBER MULCH,

COMPOST, PLASTIC SHEETING, CRUSHED ROCK OR EQUIVALENT. M. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN 7 DAYS.

N. SEED OR SOD ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS. O. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND

BEST MANAGEMENT PRACTICES REMOVED IF APPROPRIATE. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).

3. THE IMPLEMENTATION OF THIS ESC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.

4. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE SET BY SURVEY AND CLEARLY FLAGGED IN THE FIELD BY A CLEARING CONTROL FENCE PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE OR REMOVAL OF ANY GROUND COVER BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE PERMITTEE/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.

THE TESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS. WHEREVER POSSIBLE. MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.

6. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY, MORE TESC FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.

7. THE ESC FACILITIES SHALL BE INSPECTED BY THE PERMITTEE/CONTRACTOR DAILY DURING NON-RAINFALL PERIODS, EVERY HOUR (DAYLIGHT) DURING A RAINFALL EVENT, AND AT THE END OF EVERY RAINFALL, AND MAINTAINED AS NÉCESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, TEMPORARY SILTATION PONDS AND ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED. WRITTEN RECORDS SHALL BE KEPT DOCUMENTING THE REVIEWS OF THE ESC FACILITIES.

8. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A STORM EVENT.

9. ALL DENUDED SOILS MUST BE STABILIZED WITH AN APPROVED TESC METHOD (E.G. SEEDING, MULCHING, PLASTIC COVERING, CRUSHED ROCK) WITHIN THE FOLLOWING TIMELINES: APRIL 1 TO OCTOBER 31 - SOILS MUST BE STABILIZED WITHIN 7 DAYS OF GRADING.

NOVEMBER 1 TO MARCH 31 - SOILS MUST BE STABILIZED WITHIN 2 DAYS OF GRADING. 10. AT NO TIME SHALL MORE THAN 1'OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.

11. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

12. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION OR DISPERSION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANK, DETENTION VAULT. OR SYSTEM WHICH BACKS UNDER OR INTO A POND SHALL BE USED AS A TEMPORARY SETTLING BASIN.

WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (EXAMPLE: ANNUAL OR PERENNIAL

RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE). 14. WHERE STRAW MULCH IS REQUIRED FOR TEMPORARY EROSION CONTROL, IT SHALL BE

APPLIED AT A MINIMUM THICKNESS OF 2". 15. ALL EROSION/SEDIMENTATION CONTROL PONDS WITH A DEAD STORAGE DEPTH EXCEEDING 6"

MUST HAVE A PERIMETER FENCE WITH A MINIMUM HEIGHT OF 3'. 16. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF MERCER ISLAND

STANDARDS AND SPECIFICATIONS. 17. THE ESC FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE

APPROVED PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER AND THE CITY OF MERCER ISLAND INSPECTOR. 18. A COPY OF THE APPROVED EROSION CONTROL PLANS MUST BE ON THE JOB SITE WHENEVER

CONSTRUCTION IS IN PROGRESS. 19. ALL LOTS ADJOINING OR HAVING ANY NATIVE GROWTH PROTECTION EASEMENTS (NGPE) SHALL HAVE A 4' HIGH TEMPORARY CONSTRUCTION FENCE (CYCLONE OR PLASTIC MESH)

SEPARATING THE LOT (OR BUILDABLE PORTIONS OF THE LOT) FROM THE AREA RESTRICTED BY THE NGPE AND SHALL BE INSTALLED PRIOR TO ANY GRADING OR CLEARING AND REMAIN IN PLACE UNTIL A DWELLING IS CONSTRUCTED AND OWNERSHIP TRANSFERRED TO THE FIRST OWNER/OCCUPANT. 20. CLEARING LIMITS SHALL BE DELINEATED WITH A CLEARING CONTROL FENCE. THE CLEARING

CONTROL FENCE SHALL CONSIST OF A 6-FT. HIGH CHAIN LINK FENCE ADJACENT THE DRIP LINE OF TREES TO BE SAVED, WETLAND OR STREAM BUFFERS, AND SENSITIVE SLOPES. CLEARING CONTROL FENCES ALONG WETLAND OR STREAM BUFFERS OR UPSLOPE OF SENSITIVE SLOPES SHALL BE ACCOMPANIED BY AN EROSION CONTROL FENCE. IF APPROVED BY THE CITY, A FOUR-FOOT HIGH ORANGE MESH CLEARING CONTROL FENCE MAY BE USED TO DELINEATE CLEARING LIMITS IN ALL OTHER AREAS. 21. OFF-SITE STREETS MUST BE KEPT CLEAN AT ALL TIMES. IF DIRT IS DEPOSITED ON THE

PUBLIC STREET SYSTEM, THE STREET SHALL BE IMMEDIATELY CLEANED WITH POWER SWEEPER OR OTHER EQUIPMENT. ALL VEHICLES SHALL LEAVE THE SITE BY WAY OF THE CONSTRUCTION ENTRANCE AND SHALL BE CLEANED OF ALL DIRT THAT WOULD BE DEPOSITED ON THE PUBLIC STREETS. 22. ANY CATCH BASINS COLLECTING RUNOFF FROM THE SITE, WHETHER THEY ARE ON OR OFF

THE SITE, SHALL HAVE THEIR GRATES COVERED WITH FILTER FABRIC DURING CONSTRUCTION. CATCH BASINS DIRECTLY DOWNSTREAM OF THE CONSTRUCTION ENTRANCE OR ANY OTHER CATCH BASIN AS DETERMINED BY THE CITY INSPECTOR SHALL BE PROTECTED WITH A "FILTER FABRIC SOCK" OR EQUIVALENT.

23. THE WASHED GRAVEL BACKFILL ADJACENT TO THE FILTER FABRIC FENCE SHALL BE REPLACED AND THE FILTER FABRIC CLEANED IF IT IS NONFUNCTIONAL BY EXCESSIVE SILT ACCUMULATION AS DETERMINED BY THE CITY OF MERCER ISLAND. ALSO, ALL INTERCEPTOR

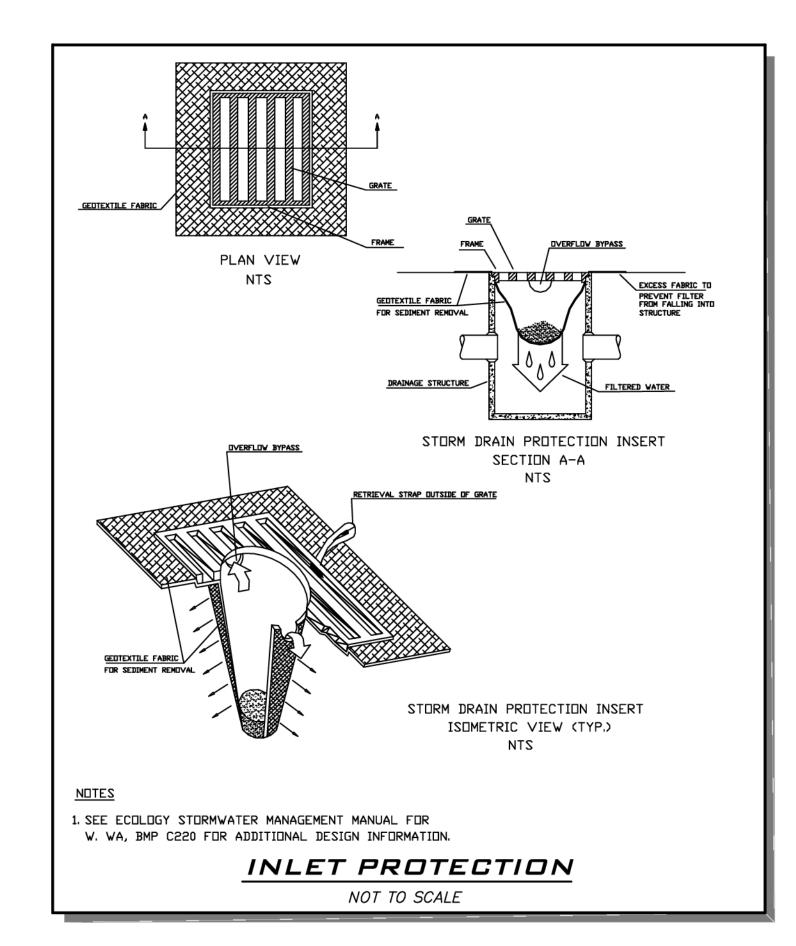
SWALES SHALL BE CLEANED IF SILT ACCUMULATION EXCEEDS ONE-QUARTER DEPTH. 24. ROCK FOR EROSION PROTECTION OF ROADWAY DITCHES, WHERE REQUIRED, MUST BE OF SOUND QUARRY ROCK, PLACED TO A DEPTH OF 1' AND MUST MEET THE FOLLOWING SPECIFICATIONS: 4"-8" ROCK/40 %-70 % PASSING; 2"-4" ROCK/30 %-40 % PASSING; AND 1"-2" ROCK/10 %-20 % PASSING.

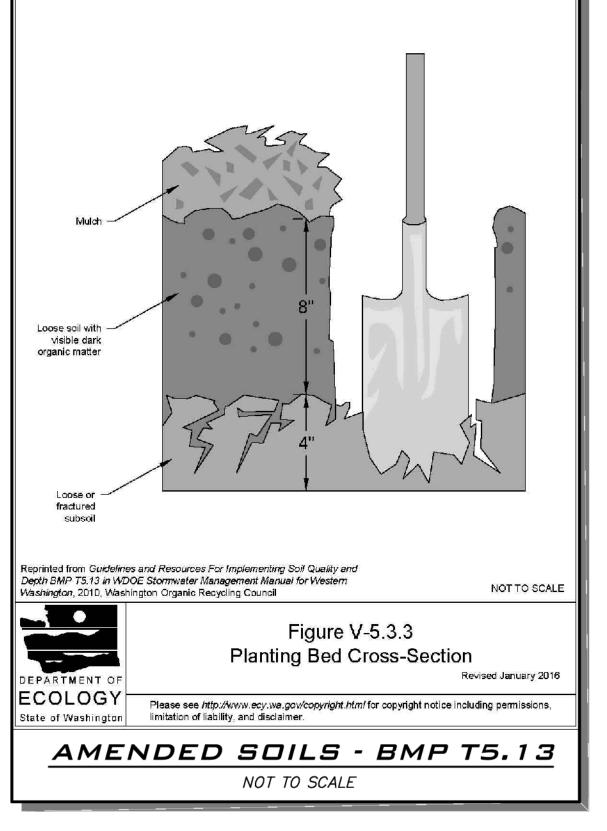
25. IF ANY PART(S) OF THE CLEARING LIMIT BOUNDARY OR TEMPORARY EROSION/SEDIMENTATION

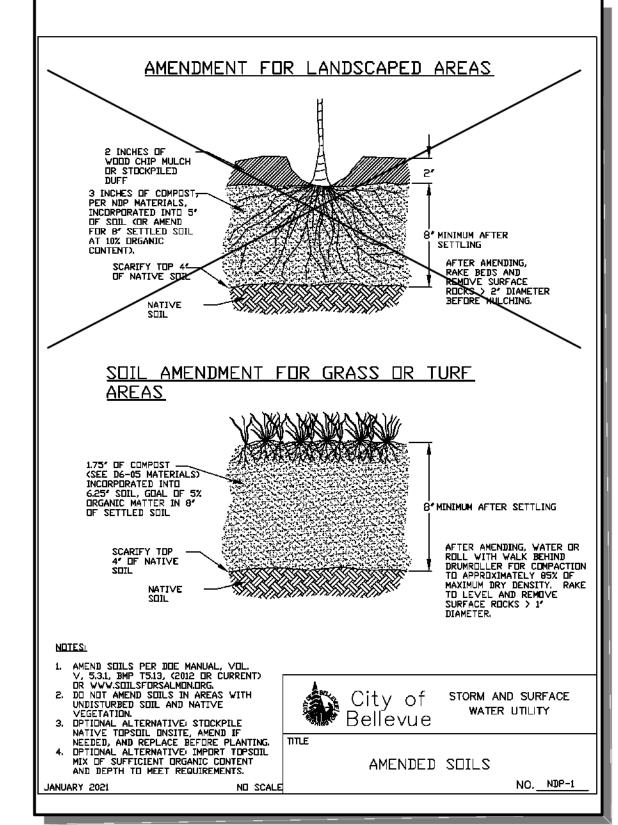
CONTROL PLAN IS/ARE DAMAGED, IT SHALL BE REPAIRED IMMEDIATELY. 26. ALL PROPERTIES ADJACENT TO THE PROJECT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND RUNOFF.

27. DO NOT FLUSH CONCRETE BY-PRODUCTS OR TRUCKS NEAR OR INTO THE STORM DRAINAGE SYSTEM. IF EXPOSED AGGREGATE IS FLUSHED INTO THE STORM SYSTEM, IT COULD MEAN RE-CLEANING THE ENTIRE DOWNSTREAM STORM SYSTEM, OR POSSIBLY RE-LAYING THE STORM LINE.

28. PRIOR TO THE OCTOBER 1 OF EACH YEAR (THE BEGINNING OF THE WET SEASON), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. THE IDENTIFIED DISTURBED AREA SHALL BE SEEDED WITHIN ONE WEEK AFTER OCTOBER 1. A SITE PLAN DEPICTING THE AREAS TO BE SEEDED AND THE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR. THE INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.







EXISTING UTILITY NOTE

EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO

GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE

PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO

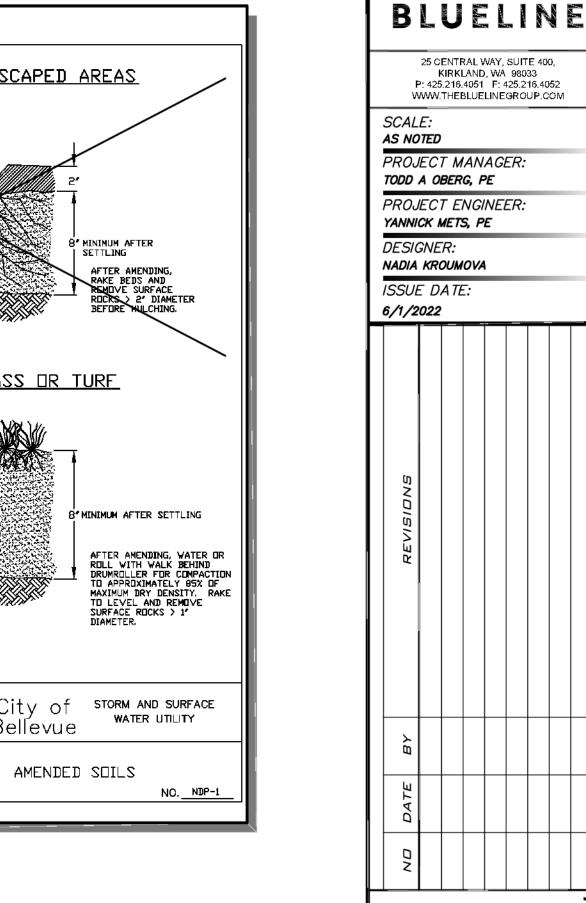
ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE

CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE

APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE

AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED



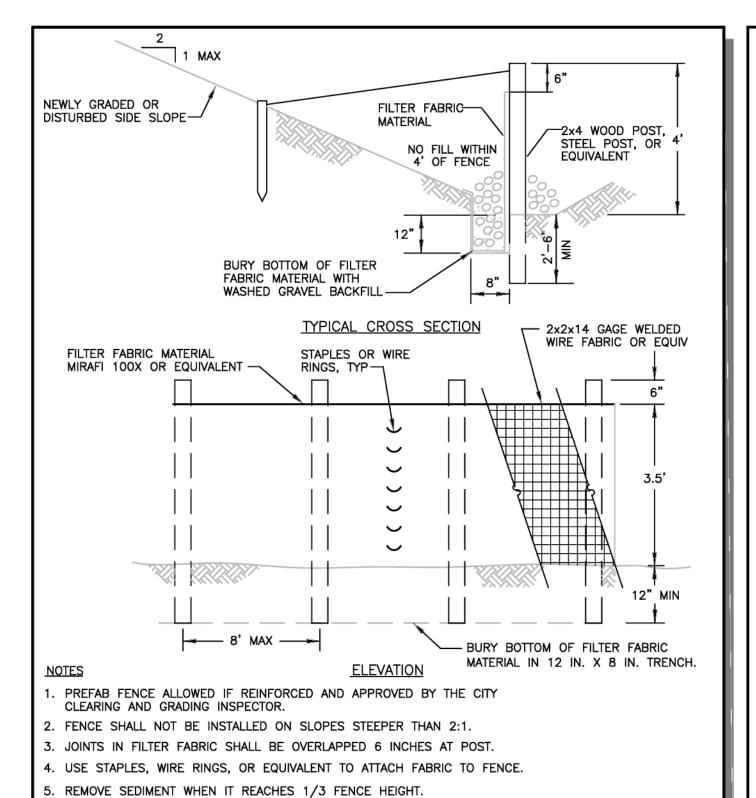




JOB NUMBER: 21-377

TP-02 SHT

SHEET NAME:

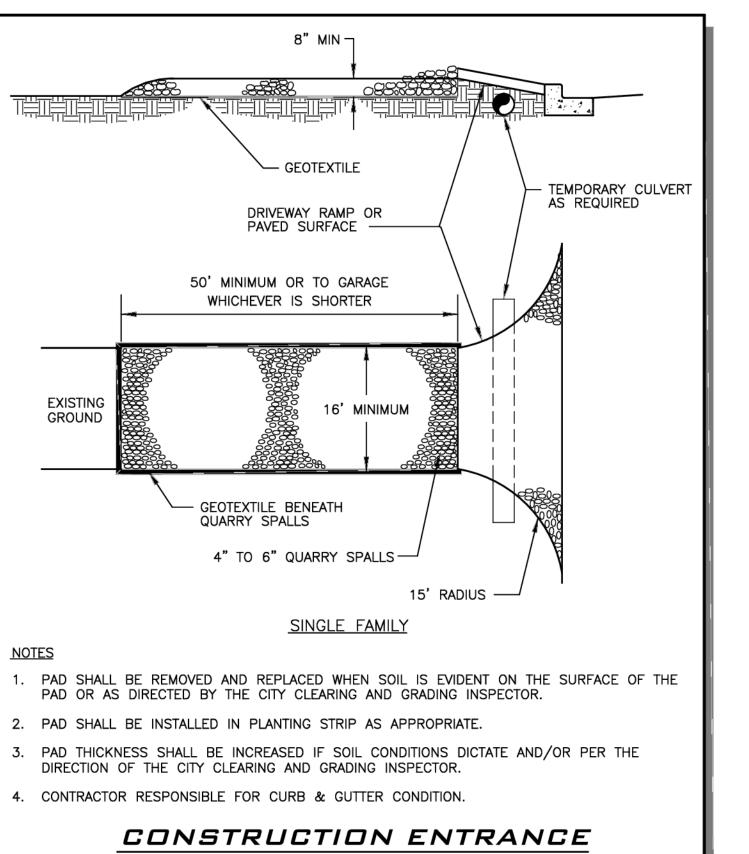


SILT FENCE

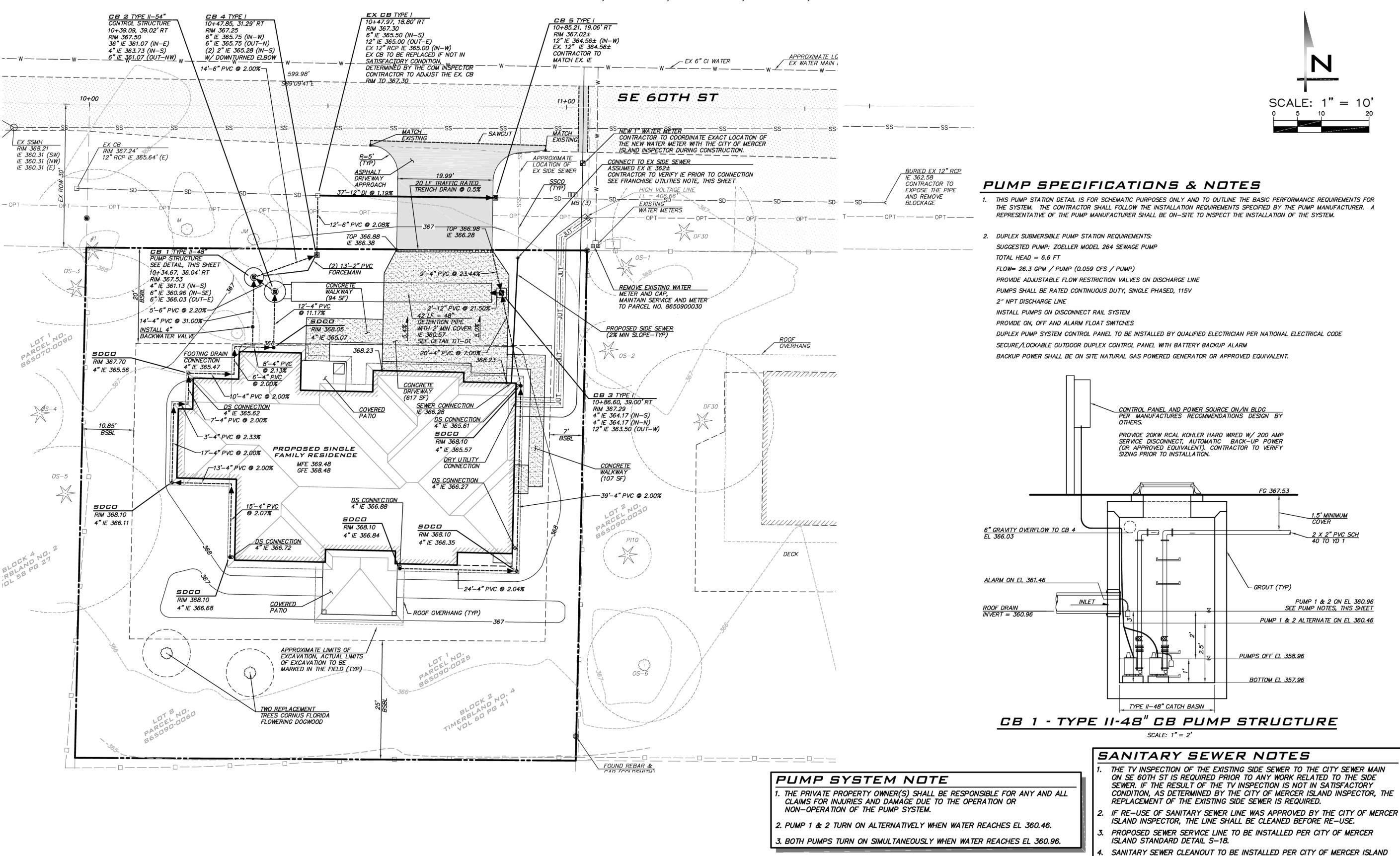
NOT TO SCALE

6. LOCATION OF FENCING SHALL BE AS SHOWN ON APPROVED

PLANS OR AS DIRECTED BY THE CITY.



NOT TO SCALE



RIGHT-OF-WAY STORM

EXISTING STORM RIMS AND IES HAVE BEEN UPDATED PER CONTRACTOR'S FIELD MEASUREMENTS.

FRANCHISE UTILITIES NOTE

FRANCHISE UTILITIES SHOWN ON THIS PLAN ARE NOT REVIEWED OR PERMITTED BY THE CITY OF MERCER ISLAND.

AMENDED SOILS

THE LAWN AND LANDSCAPE AREAS ARE REQUIRED TO PROVIDE POST-CONSTRUCTION SOIL QUALITY AND DEPTH IN ACCORDANCE WITH BMP T5.13. THE PROJECT CIVIL ENGINEER MUST PROVIDE A LETTER OF CERTIFICATION TO ENSURE THAT THE LAWN AND LANDSCAPE AREAS ARE MEETING THE POST-CONSTRUCTION SOIL QUALITY AND DEPTH REQUIREMENTS SPECIFIED ON THE STANDARD DETAIL S-19.

REFER TO CITY OF MERCER ISLAND STANDARD DETAIL S-22 FOR DISCONNECTION AND RECONNECTION NOTES AND SPECIFICATIONS

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AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED

EXISTING UTILITY NOTE

APPROVED PLAN SET PRIOR TO FINAL INSPECTION OF THE PROJECT.

WATER NOTES

- CUT AND CAP SERVICE PER CURRENT PUBLIC WORKS SPECIFICATIONS AND INSTALL NEW SERVICE. MAINTAIN THE SERVICE TO THE PARCEL NO. 8650900030
- 2. INSTALL NEW WATER METER PER MERCER ISLAND SDT DTL W-13.



25 CENTRAL WAY, SUITE 400, KIRKLAND, WA 98033 P: 425.216.4051 F: 425.216.4052 WWW.THEBLUELINEGROUP.COM

SCALE:

AS NOTED PROJECT MANAGER.

YANNICK METS, PE

TODD A OBERG, PE PROJECT ENGINEER:

DESIGNER:

NADIA KROUMOVA

ISSUE DATE: 6/1/2022



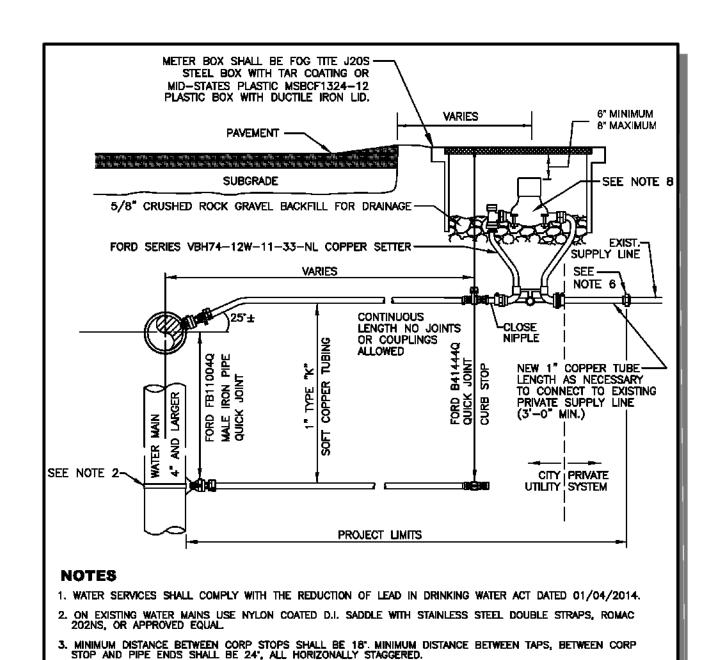
6/1/22 JOB NUMBER:

SHEET NAME: SP-01

21-377

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S S S ii © 2022 BLUELINE



PLASTIC METER BOXES SHALL NOT BE INSTALLED WITHIN ROADWAY, SIDEWALK, OR DRIVEWAYS.

V. SERVICE LINE SHALL BE PERPENDICULAR TO THE WATER MAIN AND STRAIGHT TO WATER METER, UNLESS OTHERWISE APPROVED BY CITY ENGINEER. PROVIDE WINDING SLACK IN THE SERVICE LINE BETWEEN THE MAIN AND WATER METER.

9. ALL FITTINGS TO BE BRASS COMPRESSION TYPE, FORD QUICK JOINT OR EQUAL.

NO SERVICE CONNECTIONS BETWEEN BLOW-OFF AND END OF MAIN.

B. WATER METER SUPPLIED BY CITY.

5. UPON CITY ENGINEER'S APPROVAL, METER BOXES ARE ALLOWED TO BE INSTALLED IN PORTLAND CEMENT CONCRETE PAVEMENT OR SIDEWALK.

6. WHEN CONNECTING TO EXISTING PRIVATE SUPPLY LINE CONTAINING FERROUS METAL, PROVIDE INSULATING COUPLING (DB SERIES WITH C21 SERIES ADAPTERS) AND PROVIDE REDUCER AS NECESSARY TO MATCH EXISTING PRIVATE SUPPLY LINE DIAMETER.

02-05-2021

CITY OF MERCER ISLAND

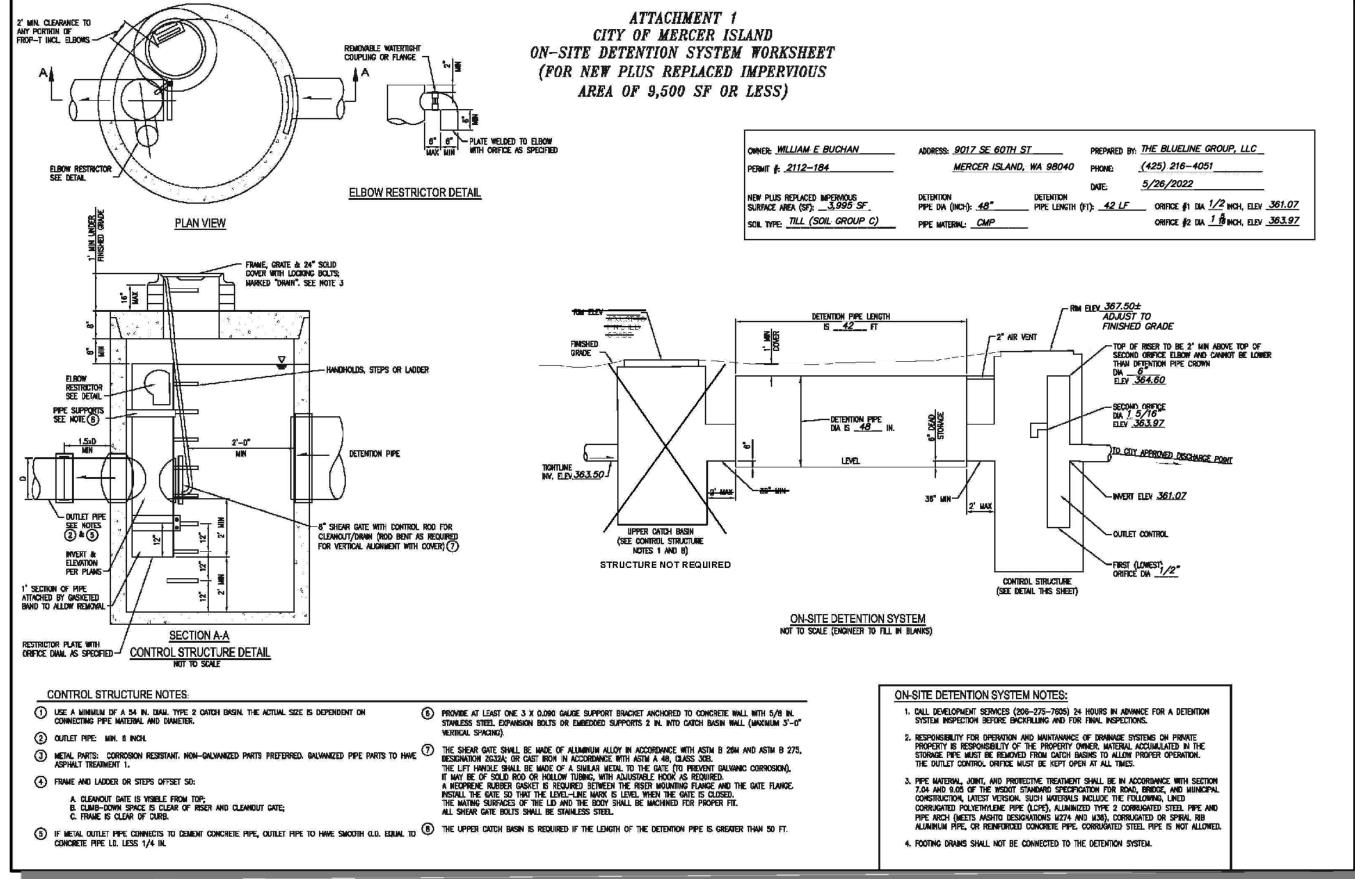
STANDARD DETAILS

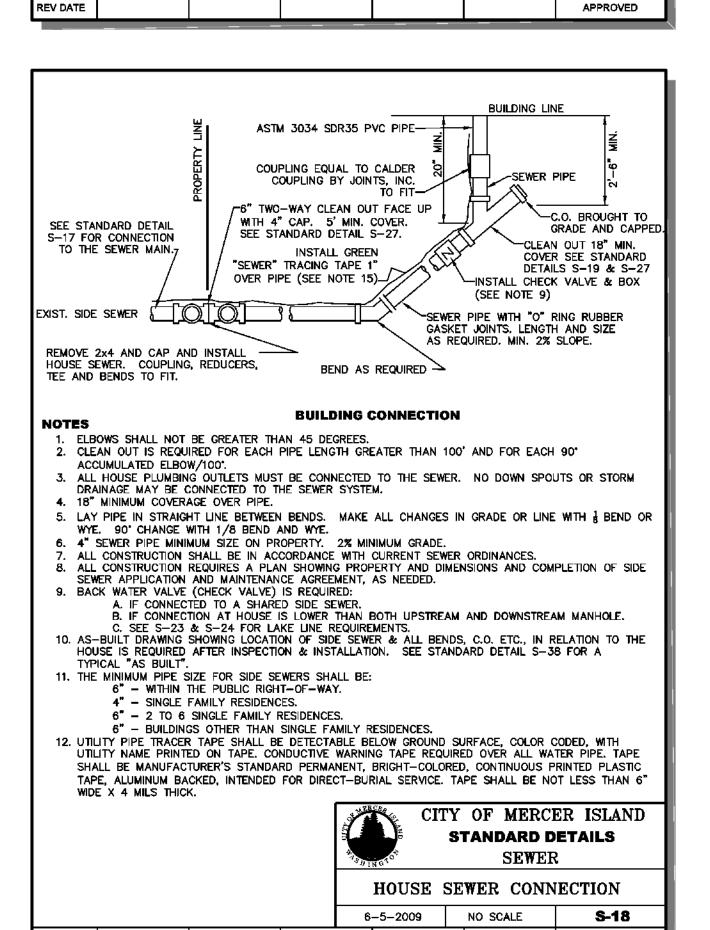
W-13

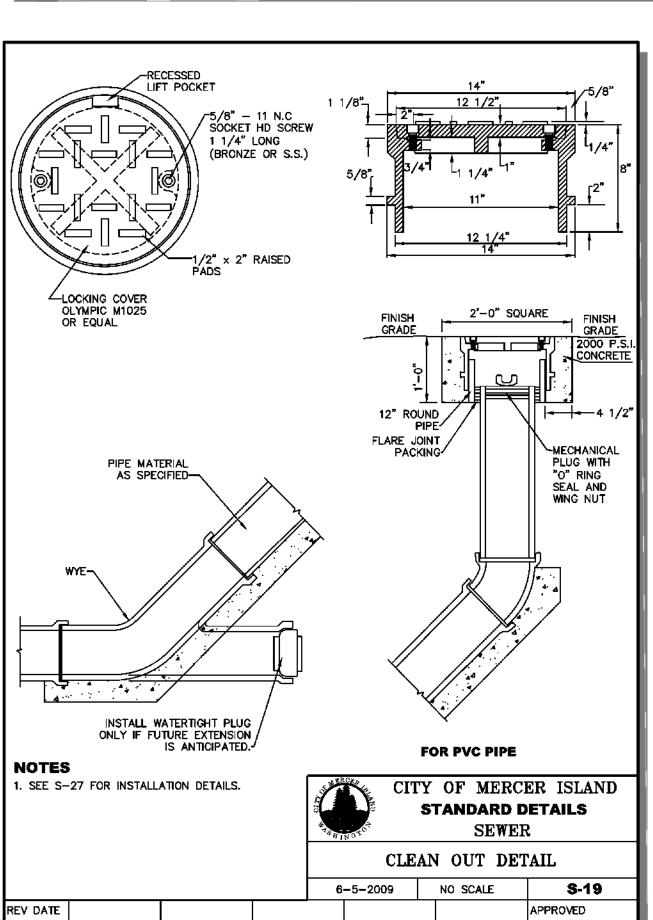
APPROVED

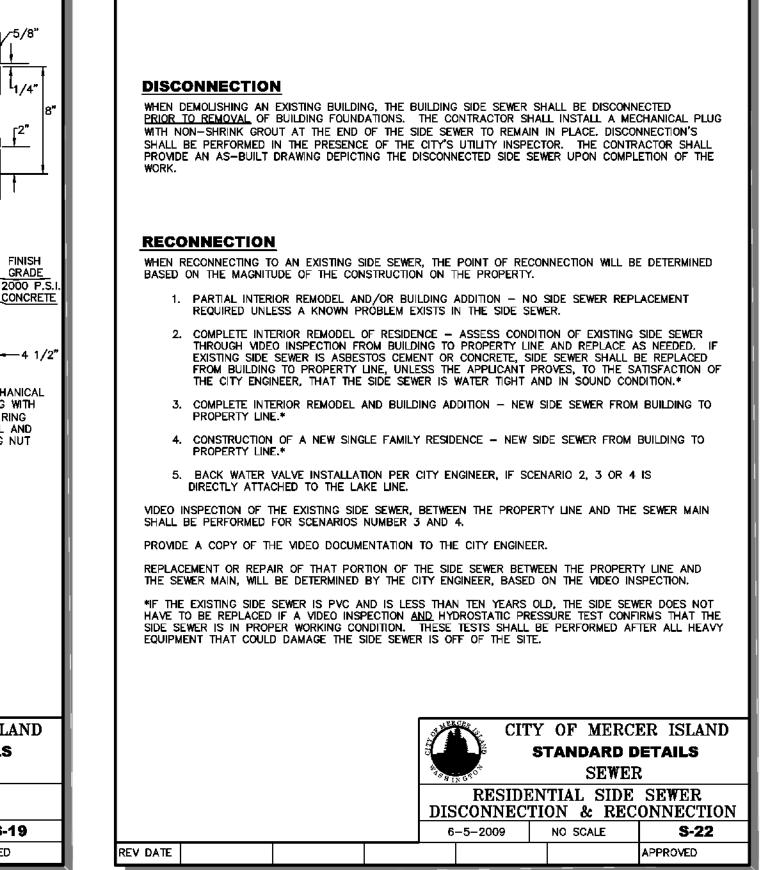
1" WATER METER INSTALLATION

NO SCALE











WWW.THEBLUELINEGROUP.COM

SCALE: AS NOTED

PROJECT MANAGER:

TODD A OBERG, PE PROJECT ENGINEER:

YANNICK METS, PE

DESIGNER: NADIA KROUMOVA

ISSUE DATE:

6/1/2022



JOB NUMBER:

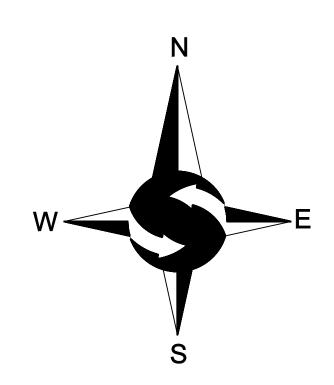
21-377 SHEET NAME: DT-0 1

SHT

EXISTING UTILITY NOTE

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REV DATE



GRAPHIC SCALE
5 0 5 10 2
1INCH = 10 FT.

LEGEND

•	FOUND MONUMENT AS DESCRIBED	-OHE-	HIGH VOLTAGE LINE
0	FOUND REBAR AS DESCRIBED	—они—	OVERHEAD UTILITIES
\bigcirc	SET 4" X 4" WOODEN HUB	-x-	CHAINLINK FENCE
•	SET 5/8" X 24" IRON ROD W/1" YELLOW PLASTIC CAP	— - -	WOOD FENCE
P	POWER METER		ASPHALT SURFACE
Ø	UTILITY POLE		CONCRETE SURFACE
	GAS METER		
\boxtimes	CATCH BASIN		GRAVEL SURFACE
	YARD DRAIN		BRICK SURFACE
\bigcirc	SANITARY SEWER MANHOLE		BRIOR SURFACE
\bowtie	WATER VALVE		FLAGSTONE SURFACE
Q	FIRE HYDRANT	СН	CHERRY
\blacksquare	WATER METER	DF	DOUGLAS FIR
T	TELEPHONE PEDESTAL	DS	DECIDUOUS
\bowtie	MAILBOX	PI	PINE
		* INDICA	TES MULTI-TRUNK

LEGAL DESCRIPTION

LOT 1, BLOCK 2, TIMBERLAND NO. 4, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 60 OF PLATS, PAGE(S) 41, RECORDS OF KING COUNTY, WASHINGTON.

SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

BASIS OF BEARINGS

THE PLAT OF TIMBERLAND NO. 4, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 60 OF PLATS, PAGE(S) 41, RECORDS OF KING COUNTY, WASHINGTON.

PROJECT INFORMATION

SURVEYOR:

SITE SURVEYING, INC. 21923 NE 11TH ST SAMMAMISH, WA 98074 PHONE: 425.298.4412

PROPERTY OWNER:

9017 SE 60 LLC 7675 NE 14TH STREET MEDINA, WA 98039 865090-0025

TAX PARCEL NUMBER: PROJECT ADDRESS:

9017 SE 60TH STREET MERCER ISLAND, WA 98040

ZONING:

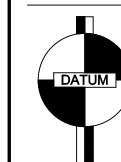
JURISDICTION:
PARCEL ACREAGE:

CITY OF MERCER ISLAND 11,251 S.F. (0.258 ACRES) AS SURVEYED

GENERAL NOTES

- 1. THIS SURVEY WAS COMPLETED WITHOUT BENEFIT OF A CURRENT TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST ON THIS PROPERTY THAT ARE NOT SHOWN HEREON.
- 2. INSTRUMENTATION FOR THIS SURVEY WAS A 3-SECOND SPECTRAPRECISION FOCUS 35 TOTAL STATION. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET BY WAC 332-130-090.
- 3. THE INFORMATION ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE IN SEPTEMBER 2020 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- 4. UTILITIES SHOWN ON THIS SURVEY ARE BASED UPON ABOVE GROUND OBSERVATIONS AND AS-BUILT PLANS WHERE AVAILABLE. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES MAY VARY AND UTILITIES NOT SHOWN ON THIS SURVEY MAY EXIST ON THIS SITE.
- 5. ALL MONUMENTS WERE LOCATED DURING THIS SURVEY UNLESS OTHERWISE

VERTICAL DATUM & CONTOUR INTERVAL



ELEVATIONS SHOWN ON THIS DRAWING WERE DERIVED FROM INFORMATION PROVIDED BY WCCS SURVEY CONTROL DATABASE.

THE MARK IS A MONUMENT IN CASE AT THE EAST END OF SE 60TH STREET, ± 150 FEET EAST OF THE INTERSECTION OF 92ND AVENUE SE.

POINT ID NO. MI-1063; ELEVATION: 334.534 FEET NAVD 88

2.0' CONTOUR INTERVAL - THE EXPECTED VERTICAL ACCURACY IS EQUAL TO 1/2 THE CONTOUR INTERVAL OR PLUS / MINUS 1.0' FOR THIS PROJECT.

