

allowable = 13072 x .45 = 5882.4 sf

amount available for hardscape = 90.9 sf

allowable = 13072 x .4 = 5288.8



LOT SLOPE = 1.3'/223.25' = 0.6%







Energy Code Info - Primary

2018 WA STATE PRESCRIPTIVE PATH HEATED FLOOR AREA = 2787.4 SF LESS THAN 5000 SF HEATED SPACE - 6 CREDITS REQ.

energy credit option credit value summary

2	2 1	heat pump
2.2	2 1	2.0 ACH + HRV
3.5	1.5	central HP, HSPF>=11
4.1	. 0.5	AH in heated space
5.5	5 2	elec. HP WH
total credits	6]

PRIMARY RESIDENCE HVAC NOTES

DUCTED HEAT PUMP (HSPF>11.0) INT. AIR HANDLER HEAT RECOVERY VENTILATION REQUIRED VENTING = CONTINUOUS 120CFM SET TO OPERATE AT 240 CFM FOR 2 HOURS IN EA. 4 HR PERIOD (50%) PROVIDED BY VARIABLE SPEED HIGH EFF. FAN (MAX .35 WATTS/CFM) CONTOLLED TO OPERATE AT LOW SPEED IN VENTILATION MODE ONLY.

design professional or builder shall complete and post an "Insulation Certificate for Residential Construction" within 3' of the electrical panel prior to final inspection.

Maximum flow rates for shower heads and kitchen sink - 1.75 GPM or less. All other lavatory faucets - 1.0 GPM or less.

Per WSEC R402.4, The building thermal Envelope shall be constructed to limit air leakage to 2.0 air changes per hour maximum. The results of the test shall be signed by the party conducting the test and provided to the code official (R402.4.1.2). Per WSEC R403.1.1, at least one thermostat per dwelling unit shall be capable of controlling the heating and cooling system on a daily schedule. Per WSEC R403.2.2, Ducts, air handlers, and filter boxes shall be sealed. Per WSEC R404.1, A minimum of 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps.

		All Climate Zones (Table R402.1.1)	
		R-Value ^a	U-Factor ^a
Fen	estration U-Factor ^b	n/a	0.30
Sky	light U-Factor ^b	n/a	0.50
Gla	zed Fenestration SHGC ^{b,e}	n/a	n/a
Ceil	ing ^e	49	0.026
Wo	od Frame Wall ^{g,h}	21 int	0.056
Floo	or	30	0.029
Bel	ow Grade Wall ^{c,h}	10/15/21 int + TB	0.042
Slat	o ^{d,f} R-Value & Depth	10, 2 ft	n/a
а	<i>R</i> -values are minimums. <i>U</i> -fact than the label or design thickn Table A101.4 shall not be less	cors and SHGC are maximums. When insu ess of the insulation, the compressed <i>R</i> -v than the <i>R</i> -value specified in the table.	lation is installed in a cavity that is less alue of the insulation from Appendix
b	The fenestration U-factor colu	mn excludes skylights.	
С	"10/15/21 +5TB" means R-10 of the interior of the wall, or R-22 the interior of the basement w the interior of the basement w means R-5 thermal break betw	continuous insulation on the exterior of th L cavity insulation plus a thermal break be vall. "10/15/21 +5TB" shall be permitted t vall plus R-5 continuous insulation on the veen floor slab and basement wall.	ne wall, or R-15 continuous insulation on etween the slab and the basement wall at o be met with R-13 cavity insulation on interior or exterior of the wall. "5TB"
d	R-10 continuous insulation is r	equired under heated slab on grade floor	s. See Section R402.2.9.1.
е	For single rafter- or joist-vaulte extends over the top plate of t	ed ceilings, the insulation may be reduced he exterior wall.	to R-38 if the full insulation depth
f	R-7.5 continuous insulation insulation insulation when applied to meet the requirements for the	stalled over an existing slab is deemed to o existing slabs complying with Section R5 ermal barriers protecting foam plastics.	be equivalent to the required perimeter 503.1.1. If foam plastic is used, it shall
g	For log structures developed in <i>climate zone</i> 5 of ICC 400.	n compliance with Standard ICC 400, log v	valls shall meet the requirements for
h	Int. (intermediate framing) der framing 16 inches on center, 7 insulation.	notes framing and insulation as described 8% of the wall cavity insulated and heade	in Section A103.2.2 including standard ers insulated with a minimum of R-10

ENERGY CREDIT DESCRIPTIONS

2.2

Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 2.0 air changes per hour at maximum 50 Pascals or

For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.25 cfm/sf maximum at 50 Pascals and

All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.65.

3.5

Air-source, centrally ducted heat pump with minimum HSPF of 11.0.

4.1

All supply and return ducts located in an unconditioned attic shall be deeply buried in ceiling insulation in accordance with Section R403.3.7.

For mechanical equipment located outside the conditioned space, a maximum of 10 linear feet of return duct and 5 linear feet of supply duct connections to the equipment may be outside the deeply buried insulation. All metallic ducts located outside the conditioned space must have both transverse and longitudinal joints sealed with mastic. If flex ducts are used, they cannot contain splices.

Duct leakage shall be limited to 3 cfm per 100 square feet of conditioned floor area. Air handler(s) shall be located within the conditioned space.

5.5

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 specification or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification, shall supply domestic hot water to all units. If one water heater is serving more than one dwelling unit, all hot water supply and recirculation piping shall be insulated with R-8 minimum pipe insulation.

Project Information
Mastan
Exempt Swingir Exempt Glaze
Vertical Fenest

any frame type U=.30





General Structural Notes	(GSN's)
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CRIT	ERIA:
1.	ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (IBC) WITH WASHINGTON STATE ADMINISTRATIVE CODE AMENDMENTS, 2018 EDITION.
2.	DESIGN LOADING CRITERIA RISK CATEGORY SBC TABLE 1604.5
	ROOF SNOW LOAD
	ROOF DEAD LOAD
	RESIDENTIAL LIVE LOAD
	DECK LIVE LOAD
	ATTIC LIVE LOAD
	FLOOR DEAD LOAD
	DECK DEAD LOAD
	EARTHQUAKE

EQUIVALENT LATERAL FORCE PROCEDURE LIGHT FRAME (WOOD) WALLS AND ROOFS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR $R = 6.5, \Omega_0 = 2\frac{1}{2}, I_F = 1.0, C_d = 4, C_s = 0.180$ BASE SHEAR V = 18.0 K - LRFDCOMPONENTS & CLADDING -29.2/-17.5 PSF MAX. AT WALLS (LRFD/ASD)

> -34.7/-20.8 GROSS UPLIFT AT ROOF (LRFD/ASD) WIND PRESSURES BASED ON LESS THAN 10 SQUARE FOOT TRIBUTARY AREAS NEAR WALL CORNERS OR ROOF EDGES (EXCLUDING CORNER ZONES AT ROOF). REDUCED DESIGN PRESSURES MAY BE CALCULATED IN ACCORDANCE WITH ASCE 7-16 CHAPTER 30.

3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ENGINEER OF ALL DISCREPANCIES PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE BUILDING LAYOUT DIMENSIONS (GRID LAYOUTS, SITE COORDINATES, ETC.) AMONGST ALL TRADES, INCLUDING SHOP FABRICATED ITEMS.

4. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, BOTH FOR VERTICAL LOADS AND LATERAL STABILITY, FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.

- 6. 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.
- 7. ALL STRUCTURAL SYSTEMS COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.
- 8. SEISMIC BRACING AND/OR GRAVITY SUPPORT AND ANCHORAGE OF ALL MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON, EXCEPT FOR ELEMENTS SPECIFICALLY SHOWN AND DETAILED ON THE STRUCTURAL DRAWINGS. THE MECHANICAL/ELECTRICAL CONTRACTOR MUST HIRE THE ENGINEER AND IS RESPONSIBLE FOR ALL COSTS RELATED TO THE PURCHASE AND INSTALLATION OF NECESSARY SUPPORTS, BRACING AND ANCHORAGE. SEISMIC BRACING AND ANCHORAGE DESIGN AND CONSTRUCTION SHALL COMPLY WITH CHAPTER 13 OF ASCE 7-10.
- 9. SHOP DRAWING REVIEW: SHOP DRAWINGS FOR TRUSSES SHALL BE SUBMITTED TO THE CONTRACTOR. ARCHITECT, AND ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY. THE REPRODUCIBLE SHALL BE MARKED AND RETURNED. SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

10. DEFERRED SUBMITTALS SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF WASHINGTON. THE COMPONENT DESIGNER SHALL BE A REGISTERED STRUCTURAL ENGINEER IF REQUIRED BY THE BUILDING OFFICIAL OF THE LOCAL JURISDICTION. BUILDING COMPONENT SUBMITTALS SHALL INCLUDE THE DESIGNING PROFESSIONAL ENGINEER'S STAMP AND SHALL BE APPROVED BY THE COMPONENT DESIGNER PRIOR TO CURSORY REVIEW BY THE ENGINEER OF RECORD FOR LOADS IMPOSED ON THE BASIC STRUCTURE. THE COMPONENT DESIGNER IS RESPONSIBLE FOR CODE CONFORMANCE INCLUDING ACCOMMODATION FOR STRUCTURAL DISPLACEMENT PER ASCE 7-10 SECTION 13.3.2. AND ALL NECESSARY CONNECTIONS NOT SPECIFICALLY CALLED OUT ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. DEFERRED SUBMITTALS SHALL INDICATE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON BASIC STRUCTURE. DESIGN CALCULATIONS SHALL BE INCLUDED IN THE SUBMITTAL. THE CONTRACTOR SHALL FORWARD DEFERRED SUBMITTALS TO THE BUILDING OFFICIAL AND HAVE THE DEFERRED SUBMITTALS ON SITE FOR THE GOVERNING JURISDICTIONS INSPECTORS USE AND REFERENCE. THE FOLLOWING BUILDING COMPONENTS SHALL BE DEFERRED SUBMITTALS FOR THIS PROJECT: PREFABRICATED CONNECTOR PLATE WOOD TRUSSES (SEE GENERAL NOTE #22)

GEOTECHNICAL:

11. FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH THE SPECIFICATIONS OR AS DIRECTED BY THE OWNER APPOINTED GEOTECHNICAL ENGINEER. FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH OR CONTROLLED, COMPACTED STRUCTURAL FILL AT LEAST 12" BELOW LOWEST ADJACENT FINISHED GRADE. THE OWNER APPOINTED GEOTECHNICAL ENGINEER SHALL APPROVE FOOTING EXCAVATION/PREPARATION PRIOR TO PLACEMENT OF ALL FOOTINGS.

REFERENCE: ASSUMED PER IBC TABLE 1806.2 ALL BOTTOM OF EXTERIOR FOOTINGS, AND INTERIOR FOOTINGS IN AN UNCONDITIONED SPACE, SHALL BE SET 12" BELOW GRADE AT A MINIMUM TO REACH FROST DEPTH.

<u>ANCHORAGE:</u>

12. DRIVE PINS AND OTHER POWDER-ACTUATED FASTENERS SHALL BE ONE OF THE FOLLOWING INSTALLED IN STRICT ACCORDANCE WITH THE ICC-ES REPORTS INDICATED AND MANUFACTURER'S INSTRUCTIONS INCLUDING MINIMUM EMBED REQUIREMENTS: "TE SERIES" (0.157" DIAMETER) AS MANUFACTURED BY ITW RAMSET (ICC-ES NO. 1799); OR "X-U" (0.157" DIAMETER) AS MANUFACTURED BY HILTI, INC. (ICC-ES NO. 2269); OR "STRONG—TIE PDPA" (0.157" DIAMETER) AS MANUFACTURED BY SIMPSON STRONG—TIE COMPANY, INC. (ICC–ES NO. 2138); OR "CSI PIN" (0.157" DIAMETER) AS MANUFACTURED BY DEWALT/POWERS (ICC-ES NO. 2024); OR AN APPROVED EQUIVALENT IN STRENGTH AND EMBEDMENT. MINIMUM EMBEDMENT IN CONCRETE SHALL BE 1" UNLESS OTHERWISE NOTED. MAINTAIN AT LEAST 3-1/2" TO NEAREST CONCRETE EDGE.

CONCRETE:

13. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 318-19 CHAPTERS 20 AND 26 AND ACI 301. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF f'c = 3,000 PSI, HOWEVER STRUCTURAL DESIGN ASSUMES A COMPRESSIVE STRENGTH OF 2,500 PSI TO OMIT SPECIAL INSPECTION REQUIREMENTS PER IBC 1705.3. MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO FOR INTERIOR SLABS SHALL BE BETWEEN 0.40 AND 0.44. ALL CONCRETE SHALL BE EXPOSURE CLASSES FO, SO, WO, AND CO PER ACI 318-19 TABLES 19.3.1.1 AND 19.3.2.1 EXCEPT AS NOTED BELOW. ALL CONCRETE EXPOSED TO EARTH (FOUNDATIONS, ETC.): (FO, SO, WO, C1)

ALL CONCRETE EXPOSED TO WEATHER: (F1, S0, W0, C1) CONCRETE MIXES SHALL MEET OR EXCEED THE REQUIREMENTS ABOVE. ALTERNATIVELY, PER SRC R402.2 CODE ALTERNATE, 5½ SACK 2500 PSI CONCRETE MIX IN ACCORDANCE WITH IBC 1904.2 MAY BE USED.

		Minimum Conne	ctors and Fasteners f	or Wood Me	mbers per IBC 20	18	
4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, fy = 60,000 PSI. GRADE 60 REINFORCING BARS WHICH ARE TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCEMENT COMPLYING WITH ASTM A615(S1) MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D1.4 ARE SUBMITTED. WELDED WIRE EARDED SHALL CONFORM TO ASTM A1064	23. ROOF & WALL SHEATHING SHALL BE APA RATED, EXTERIOR OR EXPOSURE 1 PLYWOOD OR ORIENTED STRAND BOARD (OSB) IN CONFORMANCE WITH SBC SECTION 2303.1.5. SHEATHING SHALL BE MANUFACTURED UNDER THE PROVISIONS OF VOLUNTARY PRODUCT STANDARDS DOC PS 1–09, PS 2–10, OR APA PRP–108 PERFORMANCE STANDARDS AND POLICIES FOR STRUCTURAL USE PANELS. SEE DRAWNOS FOR THICKNESS, SPAN RATING, AND NAULING REQUIREMENTS	DESCRIPTION OF BLDG. ELEMENT	NUMBER AND TYPE OF FASTENERS ROOF 3-8d COMMON (2½" x 0.131"); or	SPACING & LOCATION	DESCRIPTION OF BLDG. ELEMENT	NUMBER AND TYPE OF FASTENERS WALL (CONTINUED) 2–16d COMMON (3½" x 0.162"); or	SPACING & LOCATION
5. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315–99 AND 318–14. LAP ALL CONTINUOUS REINFORCEMENT IN ACCORDANCE WITH "REINFORCEMENT	24. AT NON-SHEARWALL EXTERIOR WALLS, UNLESS OTHERWISE NOTED, WALL SHEATHING SHALL BE ½" (NOMINAL) WITH SPAN RATING OF 24%; WITH 8d @ 6" oc PANEL NAILING (APPLIES TO ALL SHEATHING	CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, 况 ₆ " CROWN	IOENAIL	RIM JOIST, BAND JOIST, OR BLOCKING AT SHEARWALL	3–16d BOX (3½" x 0.135"); or 4–3" x 0.131" NAILS; or 4–3" x 14 GAGE STAPLES, 7 ₁₆ " CROWN	16" oc FACE NAIL
SPLICE AND DEVELOPMENT LENGTH SCHEDULE" OF 10/S3.1. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 12" AT SIDES AND ENDS. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS OTHERWISE NOTED ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.	PANEL EDGES); AND 8d @ 12° or 10 INTERMEDIATE FRAMING. 25. ALL PRESSURE-TREATED (P.T.) WOOD MEMBERS SPECIFIED ON THE DRAWINGS THAT OCCUR ABOVE GROUND AND CONTINUOUSLY PROTECTED FROM MOISTURE (INTERIOR LOCATIONS) SHALL BE PRESSURE-TREATED WITH DOT SODIUM BORATE (SBX) WITHOUT NGSIO2. AT LOCATIONS PERMANENTLY EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND WOOD MEMBERS SHALL BE PRESSURE-TREATED	BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2-8d COMMON (2½" x 0.131") 2-3" x 0.131" NAILS 2-3" x 14 GAGE STAPLES 2-16d COMMON (3½" x 0.162") 3-3" x 0.131" NAILS	EACH END, TOENAIL END NAIL	16. STUD TO TOP OR BOTTOM PLATE	4-8d COMMON $(2\frac{1}{2}$ " x 0.131"); or 4-10d BOX $(3$ " x 0.128"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN	TOENAIL
FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	WITH ALKALINE COPPER QUAT (ACQ-C FOR DOUGLAS-FIR) PRESERVATIVE UNLESS OTHERWISE NOTED. AMMONIACAL COPPER ZINC ARSENATE (ACZA) PRESERVATIVE OR OTHER PRESERVATIVES WITH AMMONIA CARRIERS, SHALL NOT BE USED. GLUED LAMINATED MEMBERS EXPOSED TO WEATHER OR MOISTURE SHALL BE TREATED WITH A	FLAT BLOCKING TO TRUSS AND WEB FILLER	3-3" x 14 GAGE STAPLES 16d COMMON (3½" x 0.162") @ 6" oc 3" x 0.131" NAILS @ 6" oc	FACE NAIL		$3-10d \text{ BOX } (3" \times 0.128"); \text{ or}$ $3-3" \times 0.131" \text{ NAILS; or}$ $3-3" \times 14 GAGE STAPLES, 716" CROWN$	END NAIL
 WALLS BLOW GROUNDJOR WEATHER (#5 BARS OR SMALLER)	NON-CORROSIVE, APPROVED PRESERVATIVE. SEE NOTE #27 FOR MATERIAL REQUIREMENTS OF CONNECTORS AND FASTENERS IN CONTACT WITH PRESSURE-TREATED MEMBERS. 26. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON	2. CEILING JOISTS TO TOP PLATE	3" x 14 GAGE STAPLES @ 6" oc 3-8d COMMON (2½" x 0.131"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or 7" 44 6455 GTAPLES 7 (" 000000	EACH JOIST, TOENAIL	17. TOP OR BOTTOM PLATE TO STUD	2–16d COMMON (3½" x 0.162"); or 3–10d BOX (3" x 0.128"); or 3–3" x 0.131" NAILS; or 3–3" x 14 GAGE STAPLES, 7/6" CROWN	END NAIL
8. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (6,000 PSI MINIMUM). IBC TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS	COMPANY, AS SPECIFIED N THEIR WOOD CONSTRUCTION CONNECTORS CATALOG NO. C-C-2017-18. INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, CENTER STRAP ON JOINT AND INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER, WITH EQUAL NUMBER AND SIZE OF FASTENERS IN EACH MEMBER. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. INSTALL WASHERS UNDER THE HEADS AND	3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITION (NO THRUST) (SEE 2308 7 3 1 TABLE	$3-3 \times 14$ GAGE STAPLES, γ_{16} CROWN $3-16d$ COMMON ($3\frac{1}{2}$ " x 0.162"); or 4-10d BOX (3 " x 0.128"); or 4-3" x 0.131" NAILS; or $4-3$ " x 14 GAGE STAPLES, γ_{16} " CROWN	FACE NAIL	18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON $(3\frac{1}{2}$ " x 0.162"); or 3-10d BOX $(3$ " x 0.128"); or 3-3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, $\frac{1}{16}$ " CROWN	FACE NAIL
AND TESTS OF CONCRETE CONSTRUCTION REQUIRED? VERIFICATION & INSPECTION CONTINUOUS PERIODIC REF STD. IBC REF. N/A 1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS AND VERIFY PLACEMENT. X 25.2, 25.3, 25.3, 26.5.1-26.5.3 2. REINFORCEMENT, MELDING: X 26.5.1-26.5.3 1908.4	NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED. ALL TIMBER CONNECTORS IN CONTACT WITH PRESSURE—TREATED WOOD THAT USED PRESERVATIVE CHEMICALS OTHER THAN DOT SODIUM BORATE (SBX) WITHOUT NASIO, SHALL BE MANUEACTURED FROM	4. CEILING JOIST ATTACHED TO PARALLEL RAFTER	PER TABLE 2308.7.3.1	FACE NAIL	19. 1" BRACE TO EACH STUD AND PLATE	2-8d COMMON ($2\frac{1}{2}$ " x 0.131"); or 2-10d BOX (3 " x 0.128"); or 2-3" x 0.131" NAILS; or 2-3" x 14 GAGE STAPLES, $\frac{7}{6}$ " CROWN	FACE NAIL
N/A A. VERIFY WELDIABILITY OF REINFORCING BARS X N/A A. VERIFY WELDIABILITY OF REINFORCING BARS X AWSD1.4 ACI 318 26.5.4 5/10"; AND X X C. INSPECT ALL OTHER WELDS X X	Z _{MAX} STEEL BY SIMPSON (G185 STEEL PER ASTM A653), OR TYPE 304 OR 316 STAINLESS STEEL. ALTERNATIVELY, CONNECTORS CAN BE POST HOT DIP GALVANIZED PER ASTM A123 OR MECHANICALLY GALVANIZED PER ASTM B695, CLASS 55 OR GREATER. STAINLESS STEEL FASTENERS SHALL BE USED WITH STAINLESS STEEL CONNECTORS AND HOT DIP CALVANIZED FASTENERS PER ASTM A153 SHALL BE USED.	(HEEL JOINT) 5. COLLAR TIE TO RAFTER	3-10d COMMON (3" x 0.148"); or 4-10d BOX (3" x 0.128"); or	FACE NAIL	20. 1" x 6" SHEATHING TO EACH BEARING	2-8d COMMON (2½" x 0.131"); or 2-10d BOX (3" x 0.128"); or	FACE NAIL
N* 3. INSPECT ANCHORS CAST IN CONCRETE. X ACI 318: 17.8.2 4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO X X ACI 318: 17.8.2.4	27. WOOD FRAMING NOTES: THE FOLLOWING SHALL APPLY UNLESS OTHERWISE NOTED ON THE DRAWINGS: A. ALL WOOD FRAMING DETAILS SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE	6. RAFTER OR ROOF TRUSS	$4-3^{\circ} \times 0.131^{\circ}$ NAILS; or $4-3^{\circ} \times 14$ GAGE STAPLES, 7_{6}° CROWN $3-10d$ COMMON ($3^{\circ} \times 0.148^{\circ}$); or $7.16d$ DOX ($7_{1}^{\circ} \times 0.135^{\circ}$); or	TOENAIL	21. 1" x 8" AND WIDER SHEATHING TO EACH BEARING	3-8d COMMON (2½" x 0.131"); or 3-10d BOX (3" x 0.128"); or	FACE NAIL
N* 5. VERIFY USE OF REQUIRED DESIGN MIX. X ACI 318:17.8.2 ACI 318:17.8.2 N* 5. VERIFY USE OF REQUIRED DESIGN MIX. X ACI 318: CH. 19, 26.4.3, 26.4.4 1904.1, 1904.2, 1908.2, 1908.3 6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENTS FOR STREMENT FOR STREMENT ACI 318: CH. 20, 26.4.3, 26.4.4 ACI 318: CH. 20, 20.4.3, 26.4.4	SBC. MINIMUM NAILING SHALL CONFORM TO SBC TABLE 2304.9.1 OR CURRENT ICC-ES REPORT NER-272. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. INSTALL WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. INSTALLATION OF LAG SCREWS SHALL CONFORM TO 2012 NDS SECTION 11.1.4 AND INSTALLATION OF BOLTS SHALL CONFORM TO 2012 NDS SECTION	2308.7.5, TABLE 2308.7.5)	4-10d BOX (3/2 x 0.128"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, 7/6" CROWN		22. JOIST TO SILL, TOP PLATE, OR GIRDER	FLOOR $3-8d \text{ COMMON } (2\frac{1}{2}" \times 0.131"); \text{ or}$ $3-10d \text{ BOX } (3" \times 0.128"); \text{ or}$ $3-3" \times 0.131" \text{ NAILS; or}$ $7.7" \times 14.0005 \text{ STADUES } 7.7" CDOWN$	TOENAIL
N* SLUMP AND AR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. X ACI 318: 26.4.5, 26.12 1908.10 N* 7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. X ACI 318: 26.4.5 1908.6, 1908.7, 1908.8 N* 8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. X ACI 318: 26.4.7-26.4.9 1908.9 9. INSPECT PRESTRESSED CONCRETE FOR: X ACI 318: 26.4.7-26.4.9 1908.9	 11.1.3. B. WALL FRAMING: TWO STUDS MINIMUM SHALL BE INSTALLED AT THE ENDS OF ALL WALLS, UNLESS NOTED OTHERWISE NOTED. INSTALL SOLID BLOCKING FOR WOOD COLUMN THROUGH FLOOR SPACES TO SUPPORTS BELOW. ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING 	7. ROOF RAFIERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2" RIDGE BEAM	2-16d COMMON $(3\frac{1}{2} \times 0.162)$; or 3-10d BOX $(3" \times 0.128")$; or 3-3" x 0.131 NAILS; or 3-3" x 14 GAGE STAPES, $\frac{7}{6}$ " CROWN 3-10d COMMON $(3\frac{1}{2}" \times 0.148")$; or 3-16d BOX $(3\frac{1}{6}" \times 0.135")$; or	TOENAIL	23. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL, OR OTHER FRAMING BELOW	8d COMMON (2½" x 0.131"); or 10d BOX (3" x 0.128"); or 3" x .131" NAILS; r 3" x 14 GAGE STAPLES, 7 ₁₆ " CROWN	6" o.c., TOENAIL
N/A A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING TENDONS X X ACI 318: 26.9.2.1 ACI 218: 26.9.2.3 N/A 10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS. X ACI 318: CH. 26.8	BELOW WITH 16d NAILS @ 12" oc STAGGERED OR BOLTED TO CONCRETE WITH 5%"Ø ANCHOR BOLTS @ 4'-0" oc PER SBC SECTION 2308.6 (EMBED 7"), UNLESS OTHERWISE NOTED. 3" x 3" x 0.229" PLATE WASHERS SHALL BE USED WITH ALL SILL PLATE ANCHOR BOLTS AND		$4-10d \text{ BOX } (3" \times 0.128"); \text{ or}$ $4-3" \times 0.131 \text{ NAILS; or}$ $4-3" \times 14 \text{ GAGE STAPES, } 7_{16}" \text{ CROWN}$		24. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON (2½" x 0.131"); or 2-10d BOX (3" x 0.128")	FACE NAIL
N* STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUC'L SLABS. X ACI 318: 26.10.2	INSTALLED PER AF&PA SDPWS-2008 SECTION 4.3.6.4.3. INDIVIDUAL MEMBERS OF BUILT-UP STUD POSTS SHALL BE NAILED TO EACH OTHER WITH 16d @ 12" oc STAGGERED.	8. STUD TO STUD (NOT AT	WALL 16d COMMON (3½" x 0.162")"	24" oc FACE NAIL	25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3½" x 0.162")	FACE NAIL
N* DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. X ACI318: 26.10.1(b) * EXCEPTIONS 2 PER IBC SECTION 1705.3 APPLIES TO CONCRETE WORK ON THIS PROJECT. X ACI318: 26.10.1(b)	C. FLOOR AND ROOF FRAMING: INSTALL SOLID BLOCKING AT ALL BEARING POINTS. TOENAIL JOISTS TO SUPPORTS WITH (2)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 16d@12"oc STAGGERED.	SHEARWALL CHORDS)	10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or 3–3" x 14 GAGE STAPLES, ½6" CROWN	16" oc FACE NAIL	26. 2" PLANKS (PLANK & BEAM – FLOOR & ROOF)	2-16d COMMON (3½" x 0.162")"	EA. BEARING, FACE NAIL
OD: 9. FRAMING LUMBER SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH W.C.L.I.B. STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17 OR W.W.P.A. WESTERN LUMBER GRADING RULES. FURNISH TO THE FOLLOWING MINIMUM STANDARDS: PLATES. LEDGERS & MISC. DOUGLAS FIR NO. 3 OR STUD GRADE	ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AS SHOWN ON THE DRAWINGS. INSTALL APPROVED PANEL EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED TONGUE-AND-GROOVE JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING ALLOW & SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF	9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTION WALL CORNERS	16d COMMON (3½" x 0.162")"; or 16d BOX (3½" x 0.135")"; or 3" x 0.131" NAILS; or	16" oc FACE NAIL 12" oc FACE NAIL 12" oc FACE NAIL	BEAMS, 2" LUMBER LAYERS	20d COMMON (4" x 0.192")	32 o.c., FACE NAIL TOP & BOT. STAGGERED ON OPPOSITE SIDES
LIGHT FRAMING:MIN. BASIC DESIGN STRESS, $F_b = 525$ PSI, $E = 1400$ KSI $F_c = 775$ PSI, $F_t = 325$ PSI JOISTS & RAFTERS:DOUGLAS FIR NO. 2 MIN. BASIC DESIGN STRESS, $F_b = 900$ PSI, $E = 1600$ KSI	SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d@12"oc. IN ACCORDANCE WITH SBC SECTION 1604.8.3, DECKS SHALL BE POSITIVELY ANCHORED TO THE STRUCTURE BY MEANS OTHER THAN NAILS SUBJECT TO WITHDRAWAL. ANCHOR WITH MINIMUM (1) CS16 STRAP AT EACH END ATTACHED TO DECK JOISTS AND TO A SOLID BLOCKING MEMBER WITHIN THE	10. BUILT-UP HEADER (2" TO 2" HDR.)	$3-3" \times 14$ GAGE STAPLES, $\frac{7}{6}"$ CROWN 16d COMMON ($3\frac{1}{2}" \times 0.162"$)"; or	16" oc EA. EDGE, FACE NAIL		10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or 3" x 14 GAGE STAPLES, 7 ₁₆ " CROWN	24" o.c., FACE NAIL AT TOP & BOT. STAGGERED ON OPP. SIDES
$F_{c} = 1350 \text{ PSI}, F_{t} = 575 \text{ PSI}$ $F_{c} = 1000 \text{ PSI}, F_{t} = 1700 \text{ KSI}$ $F_{c} = 1500 \text{ PSI}, F_{t} = 675 \text{ PSI}$ $F_{c} = 1500 \text{ PSI}, F_{t} = 675 \text{ PSI}$	BUILDING. D. <u>NAILING</u> : A MINIMUM NAIL DIAMETER AND LENGTH SHALL BE AS FOLLOWS: <u>NAIL SIZE ON DRAWINGS</u> <u>DIAMETER × LENGTH</u>	11. CONTINUOUS HEADER TO STUD	16d BOX (3½" x 0.135") 4-8d COMMON (2½" x 0.131"); or 4-10d BOX (3" x 0.128")	12" oc EA. EDGE, FACE NAIL TOENAIL		AND: 2-20d COMMON (4" x 0.192"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES 74° CROWN	ENDS AND AT EACH SPLICE, FACE NAIL
$0x_{-}$ MIN. BASIC DESIGN STRESS, $F_b = 1500$ FS, $E = 1600$ KS $F_c = 925$ PSI, $F_t = 675$ PSICOLUMNS:DOUGLAS FIR NO. 1 $4x_{-}$ MIN. BASIC DESIGN STRESS, $F_b = 1000$ PSI, $E = 1700$ KSI	SHEATHING NAILS 8d 0.131" x 2¼" 10d 0.148" x 2½" FRAMING NAILS 10d 0.148" x 3"	12. TOP PLATE TO TOP PLATE	16d COMMON (3½" x 0.162"); or 10d BOX (3" x 0.128"); or	16" oc FACE NAIL	28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	$3-16d$ COMMON ($3\frac{1}{2}$ " x 0.162"); or 4-10d BOX (3 " x 0.128"); or 4-3" x 0.131" NAILS; or	EACH JOIST OR RAFTER, FACE NAIL
$F_{c} = 1500 \text{ PSI}, F_{t} = 675 \text{ PSI}$ $6x_{-} \qquad \text{MIN. BASIC DESIGN STRESS, } F_{b} = 1200 \text{ PSI}, E = 1600 \text{ KSI}$ $F_{c} = 1000 \text{ PSI}, F_{t} = 825 \text{ PSI}$	16d0.148" x 3¼"E. <u>WOOD SHRINKAGE:</u> THE PLUMBING, FIRE PROTECTION, DRAINAGE, MECHANICAL, ELECTRICAL, CLADDING, AND OTHER SYSTEMS INSTALLED WITHIN THE BUILDING SHALL BE DESIGNED AND	13. TOP PLATE TO TOP	3" x 0.131" NAILS; or 3" x 14 GAGE STAPLES, 7/6" CROWN 8–16d COMMON (3½" x 0.162"); or	12" oc FACE NAIL EACH SIDE OF END	29. JOIST TO BAND JOIST OR RIM JOIST	4-3" x 14 GAGE STAPLES, 7/6" CROWN 3-16d COMMON (3½" x 0.162"); or 4-10d BOX (3" x 0.128"); or	
0. MANUFACTURED LUMBER SHALL BE AS MANUFACTURED BY TRUS JOIST OR APPROVED EQUAL. REQUESTS FOR APPROVAL AS EQUAL WILL REQUIRE SUBMITTAL OF ICC REPORT EQUIVALENT TO ESR-1387 FOR LAMINATED VENEER LUMBER (LVL, LAMINATED STRAND LUMBER (LSL), OR PARALLEL STRAND LUMBER (PSL). THE MINIMUM ALLOWABLE DESIGN VALUES ARE AS FOLLOWS: $LVI - E_V = 2600$ $E_V = 290$ PSL $E = 2000000$ PSL	CONSTRUCTED TO ACCOMMODATE VERTICAL SHRINKAGE AT ALL WOOD FRAMING LEVELS. THE WOOD SHRINKAGE AMOUNT SHALL BE ASSUMED TO EQUAL $\frac{3}{6}$ " FOR EACH WOOD FRAMED FLOOR LEVEL.	PLATE, AT END JOINTS	12-10d BOX (3" x 0.128"); or 12-3" x 0.131" NAILS; or 12-3" x 14 GAGE STAPLES, 7 ₁₆ " CROWN	JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EA. SIDE OF END JOINT	30. BRIDGING OR BLOCKING	4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, 7/6" CROWN 2-8d COMMON (2%" x 0.131"); or	END NAIL
LSL - $F_b = 1,900$ $F_v = 150$ PSI $E = 1,300,000$ PSI 21. GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND A.I.T.C. STANDARDS IN ACCORDANCE WITH SBC SECTION 2303.1.3. EACH MEMBER SHALL BEAR AN A.I.T.C. IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN A.I.T.C. CERTIFICATE OF CONFORMANCE. HORIZONTAL MEMBERS AND INCLUSED MEMBERS OF LESS THAN 11.1 SLOPE SHALL HAVE A DADUISED CAMPER OF 2,500 FI		14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING NOT AT SHEARWALL	16d COMMON (3½" x 0.162")"; or 16d BOX (3½" x 0.135")"; or 3" x 0.131" NAILS; or 3" x 14 GAGE STAPLES, 7/6" CROWN	16" oc FACE NAIL 12" oc FACE NAIL	TO JOIST, RAFTER, OR TRUSS	2–10d BOX (3" x 0.128"); or 2–3" x 0.131" NAILS; or 2–3" x 14 GAGE STAPLES, 7/6" CROWN	EACH END, TOENAIL
AND INCLINED MEMBERS OF LESS THAN 1:1 SLOPE SHALL HAVE A RADIUSED CAMBER OF 3,500 FT. UNLESS OTHERWISE NOTED. SIMPLE SPAN BEAMS DOUGLAS FIR COMBINATION $24F-V4$ $F_b = 2400$ PSI; $F_v = 265$ PSI; $E = 1,800,000$ PSI CONTINUOUS OR DOUGLAS FIR COMBINATION $24F-V8$ CANTILEVERED BEAMS $F_b = 2400$ PSI; $F_v = 265$ PSI; $E = 1,800,000$ PSI THESE MEMBERS ARE NOTED AS '*' IN PLAN GLUED LAMINATED MEMBERS EXPOSED TO WEATHER OR MOISTURE SHALL BE TREATED WITH A NON-CORROSIVE, APPROVED PRESERVATIVE. 22. PREFABRICATED CONNECTOR PLATE WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH ANSI/TELL 2007 AND JPC SECTION 2303.4 FOR THE SPANS AND CONDITIONS SHOWN							
ACCONDANCE WITH ANSITIE 1 - 2007 AND IBC SECTION 2003.4 FOR THE SPANS AND CONDITIONS SHOWN ON THE DRAWINGS. DESIGN LOADS SHALL BE AS FOLLOWS: <u>ROOF TRUSSES</u> TOP CHORD LIVE LOAD 25 PSF, SNOW BOTTOM CHORD LIVE LOAD 0 PSF ~or~ 20 PSF AT ATTIC TRUSSES							
TOP CHORD DEAD LOAD7.5 PSFBOTTOM CHORD DEAD LOAD7.5 PSF ~or~ 12.5 PSF AT ATTIC TRUSSESWIND UPLIFT (TOP CHORD)SEE NOTE#2 COMPONENTS & CLADDING ROOF LOADSTHE TRUSS MANUFACTURER SHALL COORDINATE LOCATIONS AND SUPPORT CONFIGURATIONS OF PLUMBING,MECHANICAL UNITS, DUCTS, AND/OR OTHER MISCELLANEOUS ITEMS WITH THE CONTRACTOR PRIOR TOTRUESS FADDIOATIONTRUESS FADDIOATIONTHE TRUESS FADDIOATIONWIND UPLIFTTO TRUESS FADDIOATION							

 23. ROOF & WALL SHEATHING SHALL BE APA RATED, EXTERIOR OR EXPOSURE 1 PLYWOOD OR ORIENTED STRAND BOARD (OSB) IN CONFORMANCE WITH SBC SECTION 2303.1.5. SHEATHING SHALL BE MANUFACTURED UNDER THE PROVISIONS OF VOLUNTARY PRODUCT STANDARDS DOC PS 1–09, PS 2–10, OR APA PRP–108 PERFORMANCE STANDARDS AND POLICIES FOR STRUCTURAL USE PANELS. SEE DRAWINGS FOR THICKNESS, SPAN RATING, AND NAILING REQUIREMENTS. 24. AT NON–SHEARWALL EXTERIOR WALLS, UNLESS OTHERWISE NOTED, WALL SHEATHING SHALL BE ½" (NOMINAL) WITH SPAN RATING OF ³⁴/₆ WITH 8d @ 6" oc PANEL NAILING (APPLIES TO ALL SHEATHING PANEL EDGES); AND 8d @ 12" oc TO INTERMEDIATE FRAMING. 25. ALL PRESSURE–TREATED (P.T.) WOOD MEMBERS SPECIFIED ON THE DRAWINGS THAT OCCUR ABOVE GROUND AND CONTINUOUSLY PROTECTED FROM MOISTURE (INTERIOR LOCATIONS) SHALL BE PRESSURE–TREATED WITH DOT SODIUM BORATE (SBX) WITHOUT NG3IO₂. AT LOCATIONS PERMANENTLY EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, WOOD MEMBERS SHALL BE PRESSURE–TREATED WITH ALKALINE COPPER QUAT (ACO–C FOR DOUGLAS–FIR) PRESERVATIVE UNLESS OTHERWISE NOTED. AMNONIACAL COPPER ZINC ARSENATE (ACZA) PRESERVATIVE OR OTHER PRESERVATIVES WITH AMMONIA CARRIERS, SHALL NOT BE USED. TO WEATHER OR NO STURE SHALL BE TREATED WITH A NON–CORROSIVE, APROVED PRESERVATIVE. SEE NOTE #27 FOR MATERIAL REQUIREMENTS OF CONNECTORS AND FASTENERS IN CONTACT WITH PRESSURE -TREATED MEMBERS. 26. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED DI THEIR WOOD CONSTRUCTION. CONNECTORS SHALL BE INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTOR STRAPS CONNECT TWO MEMBERS. 26. TIMBER CONNECTORS CHIER STRAP ON JOINT AND INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR STRAPS CONNECT TORS WHERE, WITH EQUAL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER'S INDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. ALL SHIMS SHALL BE SEASONED AND DRI	DESCRIPTION OF BLDG. ELEMENT 1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS FLAT BLOCKING TO TRUSS AND WEB FILLER 2. CEILING JOISTS TO TOP PLATE 3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITION (NO THRUST)	NUMBER AND TYPE OF FASTENERS ROOF 3-8d COMMON $(2\frac{1}{2}$ " x 0.131"); or 3-10d BOX $(3" \times 0.128")$; or 3-3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN 2-8d COMMON $(2\frac{1}{2}$ " x 0.131") 2-3" x 0.131" NAILS 2-3" x 14 GAGE STAPLES 2-16d COMMON $(3\frac{1}{2}$ " x 0.162") 3-3" x 0.131" NAILS 2-16d COMMON $(3\frac{1}{2}$ " x 0.162") 3-3" x 14 GAGE STAPLES 16d COMMON $(3\frac{1}{2}$ " x 0.162") 6" oc 3" x 14 GAGE STAPLES 16d COMMON $(3\frac{1}{2}$ " x 0.162") 6" oc 3" x 14 GAGE STAPLES 16d COMMON $(3\frac{1}{2}$ " x 0.162") 6" oc 3" x 14 GAGE STAPLES 16d COMMON $(2\frac{1}{2}$ " x 0.131"); or 3-8d COMMON $(2\frac{1}{2}$ " x 0.131"); or 3-10d BOX $(3" x 0.128")$; or 3-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN	SPACING & LOCATION EACH END, TOENAIL EACH END, TOENAIL END NAIL FACE NAIL EACH JOIST, TOENAIL	DESCRIPTION OF BLDG. ELEMENT 15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING AT SHEARWALL 16. STUD TO TOP OR BOTTOM PLATE 17. TOP OR BOTTOM PLATE	NUMBER AND TYPE OF FASTENERS WALL (CONTINUED) 2-16d COMMON $(3\frac{1}{2}" \times 0.162")$; or 3-16d BOX $(3\frac{1}{2}" \times 0.135")$; or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN 4-8d COMMON $(2\frac{1}{2}" \times 0.128")$; or 4-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN 4-3" x 0.131" NAILS; or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN 2-16d COMMON $(3\frac{1}{2}" \times 0.162")$; or 3-10d BOX $(3" \times 0.128")$; or 3-3" x 0.131" NAILS; or	SPACING & LOCATION 16" oc FACE NAIL TOENAIL
 MANUFACTURED UNDER THE PROVISIONS OF VOLUNTARY PRODUCT STANDARDS DOC PS 1–09, PS 2–10, OR APA PRP-108 PERFORMANCE STANDARDS AND POLICIES FOR STRUCTURAL USE PANELS. SEE DRAWINGS FOR THICKNESS, SPAN RATING, AND NAILING REQUIREMENTS. 24. AT NON-SHEARWALL EXTERIOR WALLS, UNLESS OTHERWISE NOTED, WALL SHEATHING SHALL BE ½" (NOMINAL) WITH SPAN RATING OF ²⁴/₆; WITH 8d @ 6" oc PANEL NAILING (APPLIES TO ALL SHEATHING PANEL EDGES); AND 8d @ 12" oc TO INTERMEDIATE FRAMING. 25. ALL PRESSURE-TREATED (P.T.) WOOD MEMBERS SPECIFIED ON THE DRAWINGS THAT OCCUR ABOVE GROUND AND CONTINUOUSLY PROTECTED FROM MOISTURE (INTERIOR LOCATIONS) SHALL BE PRESSURE-TREATED WITH DT SODIUM BORATE (SBX) WITHOUT NOSIO₂. AT LOCATIONS PERMANENTLY EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, WOOD MEMBERS SHALL BE PRESSURE-TREATED WITH ALKALINE COPPER QUAT (ACQ-C FOR DOUCLAS-FIR) PRESERVATIVE UNLESS OTHERWISE NOTED. AMMONIACAL COPPER QUAT (ACQ-C FOR DOUCLAS-FIR) PRESERVATIVE UNLESS OTHERWISE NOTED. GLUED LAMINATED MEMBERS EXPOSED TO WEATHER OR MOISTURE SHALL BE TREATED WITH ALKALINE COPPER QUAT (ACQ-C FOR DOUCLAS-FIR) PRESERVATIVE UNLESS OTHERWISE NOTED. GLUED LAMINATED MEMBERS EXPOSED TO WEATHER OR MOISTURE SHALL BE TREATED WITH A NON-CORPOSIVE, APPROVED PRESERVATIVE. SEE NOTE #27 FOR MATERIAL REQUIREMENTS OF CONNECTORS AND FASTENERS IN CONTACT WITH PRESSURE-TREATED WITH ANDINA COMPERS. 26. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED N THEIR WOOD CONSTRUCTION CONNECTORS CATALOG NO. C-C-2017-18. INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR SHALL BE INSTALLED. IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR STRAPS CONNECT WO MEMBERS SHALL CONFORM TO ASTM A307. INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR STRAPS CONNECTED SHALL BE INSTALLED. IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. W	1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS FLAT BLOCKING TO TRUSS AND WEB FILLER 2. CEILING JOISTS TO TOP PLATE 3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITION (NO THRUST)	$3-8d$ COMMON ($2\frac{1}{2}$ " x 0.131"); or $3-10d$ BOX (3 " x 0.128"); or $3-3$ " x 0.131" NAILS; or $3-3$ " x 14 GAGE STAPLES, $\frac{1}{16}$ " CROWN $2-8d$ COMMON ($2\frac{1}{2}$ " x 0.131") $2-3$ " x 0.131" NAILS $2-16d$ COMMON ($3\frac{1}{2}$ " x 0.162") $3-3$ " x 0.131" NAILS $3-3$ " x 14 GAGE STAPLES 16d COMMON ($3\frac{1}{2}$ " x 0.162") @ 6" oc 3 " x 14 GAGE STAPLES 16d COMMON ($3\frac{1}{2}$ " x 0.162") @ 6" oc 3 " x 14 GAGE STAPLES @ 6" oc 3 " x 14 GAGE STAPLES @ 6" oc $3-8d$ COMMON ($2\frac{1}{2}$ " x 0.131"); or $3-10d$ BOX (3 " x 0.128"); or $3-3$ " x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN	EACH END, TOENAIL EACH END, TOENAIL END NAIL FACE NAIL EACH JOIST, TOENAIL	 15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING AT SHEARWALL 16. STUD TO TOP OR BOTTOM PLATE 17. TOP OR BOTTOM PLATE 	$\begin{array}{c} & \text{WALL (CONTINUED)} \\ \hline 2-16d \ \text{COMMON} \ (3\frac{1}{2}" \times 0.162"); \ \text{or} \\ & 3-16d \ \text{BOX} \ (3\frac{1}{2}" \times 0.135"); \ \text{or} \\ & 4-3" \times 0.131" \ \text{NAILS; or} \\ & 4-3" \times 14 \ \text{GAGE STAPLES, } \frac{7}{16}" \ \text{CROWN} \\ \hline & 4-8d \ \text{COMMON} \ (2\frac{1}{2}" \times 0.131"); \ \text{or} \\ & 4-10d \ \text{BOX} \ (3" \times 0.128"); \ \text{or} \\ & 4-3" \times 0.131" \ \text{NAILS; or} \\ & 4-3" \times 14 \ \text{GAGE STAPLES, } \frac{7}{16}" \ \text{CROWN} \\ \hline & 2-16d \ \text{COMMON} \ (3\frac{1}{2}" \times 0.162"); \ \text{or} \\ & 3-10d \ \text{BOX} \ (3" \times 0.128"); \ \text{or} \\ & 3-3" \times 0.131" \ \text{NAILS; or} \\ \hline \end{array}$	16" oc FACE NAIL
 24. AT NOW SHEAKINGE DEALES, ONLEAS, ONLEAS, ONLEAS, ONLEAKING SHALL BE ALL SHEAKING SHALL BE DEAL (NOMINAL) WITH SPAN RATING OF 2%; WITH 80 @ 6" oc PANEL NAILING (APPLIES TO ALL SHEAKING PANEL EDGES); AND 8d @ 12" oc TO INTERMEDIATE FRAMING. 25. ALL PRESSURE-TREATED (P.T.) WOOD MEMBERS SPECIFIED ON THE DRAWINGS THAT OCCUR ABOVE GROUND AND CONTINUOUSLY PROTECTED FROM MOISTURE (INTERIOR LOCATIONS) SHALL BE PRESSURE-TREATED WITH DOT SODIUM BORATE (SBX) WITHOUT NGSIO₂. AT LOCATIONS PERMANENTLY EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, WOOD MEMBERS SHALL BE PRESSURE-TREATED WITH ALKALINE COPPER QUAT (ACQ-C FOR DOUGLAS-FIR) PRESERVATIVE UNLESS OTHERWISE NOTED. AMMONIACAL COPPER ZINC ARSENATE (ACZA) PRESERVATIVE OR OTHER PRESERVATIVES WITH AMMONIA CARRIERS, SHALL NOT BE USED. GLUED LAMINATED MEMBERS EXPOSED TO WEATHER OR MOISTURE SHALL BE TREATED WITH A NON-CORROSIVE, APPROVED PRESERVATIVE. SEE NOTE #27 FOR MATERIAL REQUIREMENTS OF CONNECTORS AND FASTENERS IN CONTACT WITH PRESSURE-TREATED MEMBERS. 26. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED N THEIR WOOD CONSTRUCTION CONNECTORS CATALOG NO. C-C-2017-18. INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, CENTER STRAP ON JOINT AND INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER'S IN EACH MEMBER. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. INSTALL WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. INSTALL WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED. ALL TIMBER CONNECTORS IN CONTACT WITH PRESSURE-TREATED	FRAMING BELOW BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS FLAT BLOCKING TO TRUSS AND WEB FILLER 2. CEILING JOISTS TO TOP PLATE 3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITION (NO THRUST)	$3-3" \times 14$ GAGE STAPLES, $\frac{1}{16}"$ CROWN $2-8d$ COMMON ($2\frac{1}{2}" \times 0.131"$) $2-3" \times 0.131"$ NAILS $2-3" \times 14$ GAGE STAPLES $2-16d$ COMMON ($3\frac{1}{2}" \times 0.162"$) $3-3" \times 0.131"$ NAILS $3-3" \times 14$ GAGE STAPLES $16d$ COMMON ($3\frac{1}{2}" \times 0.162"$) @ 6" oc $3" \times 0.131"$ NAILS @ 6" oc $3" \times 14$ GAGE STAPLES @ 6" oc $3-8d$ COMMON ($2\frac{1}{2}" \times 0.131"$); or $3-10d$ BOX ($3" \times 0.128"$); or $3-3" \times 0.131"$ NAILS; or $3-3" \times 14$ GAGE STAPLES, $\frac{7}{16}"$ CROWN 2×164 COMMON ($\frac{714"}{100} = 0.402"$)	EACH END, TOENAIL END NAIL FACE NAIL EACH JOIST, TOENAIL	16. STUD TO TOP OR BOTTOM PLATE	4-3" x 14 GAGE STAPLES, $\frac{1}{16}$ " CROWN 4-8d COMMON ($2\frac{1}{2}$ " x 0.131"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, $\frac{1}{16}$ " CROWN 2-16d COMMON ($3\frac{1}{2}$ " x 0.162"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or	TOENAIL
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20. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE STRUNG- THE BY SIMPSON COMPANY, AS SPECIFIED N THEIR WOOD CONSTRUCTION CONNECTORS CATALOG NO. C-C-2017-18. INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, CENTER STRAP ON JOINT AND INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER, WITH EQUAL NUMBER AND SIZE OF FASTENERS IN EACH MEMBER. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. INSTALL WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED.	3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITION (NO THRUST)	$3-3$ " x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN		TO STUD	2–16d COMMON (3½" x 0.162"); or 3–10d BOX (3" x 0.128"); or 3–3" x 0.131" NAILS; or 3–3" x 14 GAGE STAPLES. ‰" CROWN	END NAIL
SPECIFIED BY MANUFACTURER, WITH EQUAL NUMBER AND SIZE OF FASTENERS IN EACH MEMBER. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. INSTALL WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED. ALL TIMBER CONNECTORS IN CONTACT WITH PRESSURE-TREATED WOOD THAT USED PRESERVATIVE	PARTITION (NO THRUST)	$3-16d$ COMMON ($3\frac{1}{2}$ x 0.162); or 4-10d BOX (3 " x 0.128"); or	FACE NAIL	18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2–16d COMMON (3½" x 0.162"); or 3–10d BOX (3" x 0.128"); or 3–3" x 0.131" NAILS; or	FACE NAIL
ALL TIMBER CONNECTORS IN CONTACT WITH PRESSURE-TREATED WOOD THAT USED PRESERVATIVE	(SEE 2308.7.3.1, TABLE 2308.7.3.1)	4–3" x 0.131" NAILS; or 4–3" x 14 GAGE STAPLES, 7_6 " CROWN		19. 1" BRACE TO EACH STUD	$3-3" \times 14$ GAGE STAPLES, $7_{6}"$ CROWN 2-8d COMMON ($2\frac{1}{2}" \times 0.131"$); or	
CHEMICALS OTHER THAN DOT SODIUM BORATE (SBX) WITHOUT NaSIO2 SHALL BE MANUFACTURED FROM	4. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	PER TABLE 2308.7.3.1	FACE NAIL	AND PLATE	2-10d BOX (3" x 0.128"); or 2-3" x 0.131" NAILS; or 2-3" x 14 GAGE STAPLES, 7/6" CROWN	FACE NAIL
Z _{MAX} STEEL BY SIMPSON (G185 STEEL PER ASTM A653), OR TYPE 304 OR 316 STAINLESS STEEL. ALTERNATIVELY, CONNECTORS CAN BE POST HOT DIP GALVANIZED PER ASTM A123 OR MECHANICALLY GALVANIZED PER ASTM B695, CLASS 55 OR GREATER. STAINLESS STEEL FASTENERS SHALL BE USED WITH STAINLESS STEEL CONNECTORS AND HOT DIP GALVANIZED FASTENERS PER ASTM A153 SHALL BE USED	5. COLLAR TIE TO RAFTER	3-10d COMMON (3" x 0.148"); or 4-10d BOX (3" x 0.128"); or	FACE NAIL	20. 1" x 6" SHEATHING TO EACH BEARING	2-8d COMMON (2½" x 0.131"); or 2-10d BOX (3" x 0.128"); or	FACE NAIL
27. WOOD FRAMING NOTES: THE FOLLOWING SHALL APPLY UNLESS OTHERWISE NOTED ON THE DRAWINGS:	6. RAFTER OR ROOF TRUSS	$4-3 \times 0.131$ NAILS; or $4-3" \times 14$ GAGE STAPLES, $7_{16}"$ CROWN $3-10d$ COMMON ($3" \times 0.148"$); or	TOENAIL	21. 1" x 8" AND WIDER SHEATHING TO EACH BEARING	3-8d COMMON (2½" x 0.131"); or 3-10d BOX (3" x 0.128"); or	FACE NAIL
SBC. MINIMUM NAILING SHALL CONFORM TO SBC TABLE 2304.9.1 OR CURRENT ICC-ES REPORT NER-272. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. INSTALL WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. INSTALLATION OF LAG SCREWS SHALL CONFORM TO 2012	2308.7.5, TABLE 2308.7.5)	3–16d BOX (3½" x 0.135"); or 4–10d BOX (3" x 0.128"); or 4–3" x 0.131" NAILS; or 4–3" x 14 GAGE STAPLES, 7/6" CROWN		22. JOIST TO SILL, TOP PLATE, OR GIRDER	FLOOR 3-8d COMMON (2½" x 0.131"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS: or	TOENAIL
NDS SECTION 11.1.4, AND INSTALLATION OF BOLTS SHALL CONFORM TO 2012 NDS SECTION 11.1.3.	7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2"	2-16d COMMON (3½" x 0.162"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131 NAILS; or	END NAIL	23. RIM JOIST, BAND JOIST,	$3-3" \times 14$ GAGE STAPLES, $7_{16}"$ CROWN 8d COMMON ($2\frac{1}{2}" \times 0.131"$); or	
B. WALL FRAMING: TWO STUDS MINIMUM SHALL BE INSTALLED AT THE ENDS OF ALL WALLS, UNLESS NOTED OTHERWISE NOTED. INSTALL SOLID BLOCKING FOR WOOD COLUMN THROUGH FLOOR SPACES TO SUPPORTS BELOW. ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING	RIDGE BEAM	$3-3" \times 14$ GAGE STAPES, $\frac{7}{16}"$ CROWN 3-10d COMMON ($3\frac{1}{2}" \times 0.148"$); or 3-16d BOX ($3\frac{1}{2}" \times 0.135"$); or	TOENAIL	OR BLOCKING TO TOP PLATE, SILL, OR OTHER FRAMING BELOW	10d BOX (3" x 0.128"); or 3" x .131" NAILS; r 3" x 14 GAGE STAPLES, 7/6" CROWN	6" o.c., TOENAIL
BELOW WITH 16d NAILS @ 12" oc STAGGERED OR BOLTED TO CONCRETE WITH $\frac{5}{8}$ " ANCHOR BOLTS @ 4'-0" oc PER SBC SECTION 2308.6 (EMBED 7"), UNLESS OTHERWISE NOTED. 3" x 3" x 0.229" PLATE WASHERS SHALL BE USED WITH ALL SILL PLATE ANCHOR BOLTS AND		4–10d BOX (3" x 0.128"); or 4–3" x 0.131 NAILS; or 4–3" x 14 GAGE STAPES, ½6" CROWN		24. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON (2½" x 0.131"); or 2-10d BOX (3" x 0.128")	FACE NAIL
INSTALLED PER AF&PA SDPWS-2008 SECTION 4.3.6.4.3. INDIVIDUAL MEMBERS OF BUILT-UP STUD POSTS SHALL BE NAILED TO EACH OTHER WITH 16d @ 12" oc STAGGERED.	8. STUD TO STUD (NOT AT	WALL 16d COMMON (3½" x 0.162")"	24" oc FACE NAIL	25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3½" × 0.162")	FACE NAIL
C. FLOOR AND ROOF FRAMING: INSTALL SOLID BLOCKING AT ALL BEARING POINTS. TOENAIL JOISTS TO SUPPORTS WITH (2)16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI-JOIST	SHEARWALL CHORDS)	10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or	16" oc FACE NAIL	26. 2" PLANKS (PLANK & BEAM – FLOOR & ROOF)	2-16d COMMON (3½" x 0.162")"	EA. BEARING, FACE NAIL
BEAMS TOGETHER WITH 16d@12"oc STAGGERED. ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AS SHOWN ON THE DRAWINGS. INSTALL APPROVED PANEL EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED TONGUE-AND-GROOVE 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"oc. IN ACCORDANCE WITH SBC	9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTION WALL CORNERS	$3-3" \times 14$ GAGE STAPLES, $\%_{16}"$ CROWN 16d COMMON ($3\%'' \times 0.162"$)"; or 16d BOX ($3\%'' \times 0.135"$)"; or $3" \times 0.131"$ NAILS; or $3-3" \times 14$ GAGE STAPLES, $\%_{16}"$ CROWN	16" oc FACE NAIL 12" oc FACE NAIL 12" oc FACE NAIL	27. BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20d COMMON (4" x 0.192") 10d BOX (3" x 0.128"); or 3" x 0.131" NAILS: or	32" o.c., FACE NAIL TOP & BOT. STAGGERED ON OPPOSITE SIDES 24" o.c., FACE NAIL AT TOP &
SECTION 1604.8.3, DECKS SHALL BE POSITIVELY ANCHORED TO THE STRUCTURE BY MEANS OTHER THAN NAILS SUBJECT TO WITHDRAWAL. ANCHOR WITH MINIMUM (1) CS16 STRAP AT EACH END ATTACHED TO DECK JOISTS AND TO A SOLID BLOCKING MEMBER WITHIN THE BUILDING.	10. BUILT-UP HEADER (2" TO 2" HDR.)	16d COMMON $(3\frac{1}{2}$ " x 0.162")"; or 16d BOX $(3\frac{1}{2}$ " x 0.135")	16" oc EA. EDGE, FACE NAIL 12" oc EA. EDGE,		$3^{"}$ x 14 GAGE STAPLES, $7_{6}^{"}$ CROWN AND: 2-20d COMMON (4" x 0.192"); or	BOT. STAGGERED ON OPP. SIDES
D. <u>NAILING</u> : A MINIMUM NAIL DIAMETER AND LENGTH SHALL BE AS FOLLOWS: <u>NAIL SIZE ON DRAWINGS</u> <u>DIAMETER x LENGTH</u> SHEATHING NAILS 8d 0.131" x 21%"	11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2½" x 0.131"); or 4-10d BOX (3" x 0.128")	FACE NAIL		$3-10d \text{ BOX } (3" \times 0.128"); \text{ or}$ $3-3" \times 0.131" \text{ NAILS; or}$ $3-3" \times 14 \text{ GAGE STAPLES, \frac{7}{16}" CROWN$	EACH SPLICE, FACE NAIL
IOd 0.148" x 2½" FRAMING NAILS 10d 16d 0.148" x 3¼"	12. TOP PLATE TO TOP PLATE	16d COMMON (3½" x 0.162"); or 10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or	16" oc FACE NAIL 12" oc FACE NAIL	28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3–16d COMMON (3½" x 0.162"); or 4–10d BOX (3" x 0.128"); or 4–3" x 0.131" NAILS; or 4–3" x 14 GAGE STAPLES, 7/6" CROWN	EACH JOIST OR RAFTER, FACE NAIL
E. <u>WOOD SHRINKAGE:</u> THE PLUMBING, FIRE PROTECTION, DRAINAGE, MECHANICAL, ELECTRICAL, CLADDING, AND OTHER SYSTEMS INSTALLED WITHIN THE BUILDING SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE VERTICAL SHRINKAGE AT ALL WOOD FRAMING LEVELS. THE WOOD SHRINKAGE AMOUNT SHALL BE ASSUMED TO EQUAL ³ / ₄ " FOR EACH WOOD FRAMED FLOOR	13. TOP PLATE TO TOP PLATE, AT END JOINTS	8–16d COMMON (3½" x 0.162"); or 12–10d BOX (3" x 0.128"); or 12–3" x 0.131" NAILS: or	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP	29. JOIST TO BAND JOIST OR RIM JOIST	$3-16d$ COMMON ($3\frac{1}{2}$ " x 0.162"); or 4-10d BOX (3 " x 0.128"); or 4-3" x 0.131" NAILS; or $4-3$ " x 14 GAGE STAPLES $\frac{7}{6}$ " CROWN	END NAIL
LEVEL.	14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING NOT AT	$12-3" \times 14$ GAGE STAPLES, $\frac{7}{6}"$ CROWN 16d COMMON ($3\frac{1}{2}" \times 0.162"$)"; or 16d BOX ($3\frac{1}{2}" \times 0.135"$)"; or	SPLICE LENGTH EA. SIDE OF END JOINT 16" oc FACE NAIL	30. BRIDGING OR BLOCKING TO JOIST, RAFTER, OR TRUSS	2-8d COMMON ($2\frac{1}{2}$ " x 0.131"); or 2-10d BOX (3" x 0.128"); or 2-3" x 0.131" NAILS; or 2-3" x 1.4 CACE STADLES 7(" CROWN	EACH END, TOENAIL
	SHEARWALL	3" x 0.131" NAILS; or 3" x 14 GAGE STAPLES, 7/6" CROWN	12" oc FACE NAIL		Z-3 X 14 GAGE STAPLES, 716 CROWN	
	 STUD PUSIS SHALL BE, NALLEI TO EACH OTHER WITH TO BE 2012 OF STAGEARD. FLORK AND ROOF FRAMES. INSTALLS CUD BLOCKING AT ALL BEARING POINTS. TOENAL JOIST TO SUPPORTS WITH (2)164 MALES. ATACHT MUSER JOISTS TO FLUGH FRADERS OR BEAMS WITH SIMPSON METAL. JOIST HANCERS IN ACCORDANCE. WITH NOTES ABOVE, NAIL ALL MULT-JOIST BEAMS TOOCHER. WITH 1680/2005 STACCERD. RODG HADE LOOG SHEATHING SHLI BE LAD UP WITH GRAM PERPENDICULAR TO SUPPORTS AND MALED AS SHOWN ON THE DRAWINGS. INSTALL APPROVED PAREL DOES CUPS CENTERED BETINES. JOISTS/TRUSSES AT UNRLOCKED ROOF SHEATHING EDESS. ALL FLOOR SHEATHING EDDES SHALL HAVE APPROVED TOXULE-AND-CROCK JOINTS OF SHALL BE SUPPORTS WITH SOLD BLOCKING ALLOW AS "SPACING WITH INTERMED". AND CROCKED WITH SO SHEATHING, TOKAL BLOCKING TO SUPPORTS WITH INGER200C. IN CORDINATE WITH SPC SECTION 1604.8.3, DECKS SHALL BE POSITIVELY ANCHORED TO THE STRUCTURE BY MEANS OTHER THAN INALS SUBJECT TO WITHORAWAL, ANCHOR WITH MIMMUM (1) CSTIS STRAP AT EACH END ATTACHED TO DECK JOSTS AND TO A SOLD BLOCKING MEMBER WITHIN THE BULDING. NAILING: A MINIMUM NAIL DIAMETER AND LENGTH SHALL BE AS FOLLOWS INAL SIZE ON DRAWALS. <u>INAL MARKES LONGTH</u> SHEATHING INALIS 100 OLI48" X 32" 100 OLI48" X 32" RAMING NAILS 100 OLI48" X 32" RAMON DRALE, HENGTH WOOD SHRINKAGE. THE PULWERIG, FIRE PROTECTION, DRAMAGE, MECHANICAL, ELECTRICAL CLADING, AND OTHER SHRIL BE ASSUMED TO EQUAL 34" FOR EACH WOOD TRAMED FLOOR LEVEL. 	 SILE FORS SHALL BE WALLE LECKED OF HER AND THE AVENUE AS A SUBJECT STREAM OF THE AVENUE AS A SUBJECT AND THE AVENUE AS A SUBJECT AS THE ACCORDANCE WITH THE AVENUE AS A SUBJECT AS THE ACCORDANCE WITH THE AVENUE AS A SUBJECT AS THE ACCORDANCE AND A PART OF A SUBJECT AS THE AVENUE AND THE AVENUE AS A SUBJECT AS THE AVENUE AND THE AVENUE AS A SUBJECT AS THE AVENUE AND THE AVENUE AND A SUBJECT AS THE AVENUE AND THE AVENUE AND A SUBJECT AS THE AVENUE AND THE AVENUE AND A SUBJECT AS THE AVENUE AND THE AVENUE AND A SUBJECT AS THE AVENUE AND THE AVENUE AND A SUBJECT AS THE AVENUE AND THE AVENUE AND A SUBJECT AS THE AVENUE AND THE AVENUE AND A SUBJECT AS THE AVENUE AND THE AVENUE AND A SUBJECT AS THE AVENUE AND A SUBJECT	 Sub 198 S 960, 24 Kind 10 CAR Hells AM 198 M 198 C 24 STARK90. C. LOCK R 198 M 201 FARA RESEL ALL DECARS OF CARL AND SATE TO THE RESEL AND SATE TO THE RESEL AND DATE AND THE RESERVED TO TH	 S. U. FALL SHALLER HALLE LE ROUTE DE LA FILME DE CONSTRUME LANSE BERGERS FRANKEL DE MON STOL DE DE MONTANTE ANDRE ENDER DE LA RESERVE DE SUCCESS DE MONTANTE DE LA DESTA DE LA RESERVE BERGERS FALL DE MONTANTE ANDRE DE DE LA DESTA DE LA DE	 a) UN RESTORE MADE INCLUDED FOR ALL STREET AND THE MADE IN A DESCRIPTION OF ALL AND A D	 Substands and introduce of a standard multiple and a standard multipl

		Minimum Connec	tors and Fasteners fo	or Wood Mer	nbers per IBC 20	18	
G STEEL SHALL CONFORM TO ASTM A615, GRADE 60, fy = 60,000 PSI. GRADE 60 G BARS WHICH ARE TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCEMENT	23. ROOF & WALL SHEATHING SHALL BE APA RATED, EXTERIOR OR EXPOSURE 1 PLYWOOD OR ORIENTED STRAND BOARD (OSB) IN CONFORMANCE WITH SBC SECTION 2303.1.5. SHEATHING SHALL BE	DESCRIPTION OF BLDG. ELEMENT	NUMBER AND TYPE OF FASTENERS	SPACING & LOCATION	DESCRIPTION OF BLDG. ELEMENT	NUMBER AND TYPE OF FASTENERS	SPACING & LOCATION
WITH ASTM A615(S1) MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICATING ICE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D1.4 ARE SUBMITTED. WELDED WIRE ALL CONFORM TO ASTM A1064.	MANUFACTURED UNDER THE PROVISIONS OF VOLUNTARY PRODUCT STANDARDS DOC PS 1–09, PS 2–10, OR APA PRP–108 PERFORMANCE STANDARDS AND POLICIES FOR STRUCTURAL USE PANELS. SEE DRAWINGS FOR THICKNESS, SPAN RATING, AND NAILING REQUIREMENTS.	1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP	3-8d COMMON (2½" x 0.131"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or	EACH END, TOENAIL	15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING AT	2–16d COMMON (3½" x 0.162"); or 3–16d BOX (3½" x 0.135"); or 4–3" x 0.131" NAILS; or	16" oc FACE NAIL
D 318–14. LAP ALL CONTINUOUS REINFORCEMENT IN ACCORDANCE WITH ACT D 218–14. LAP ALL CONTINUOUS REINFORCEMENT IN ACCORDANCE WITH "REINFORCEMENT D DEVELOPMENT LENGTH SCHEDULE" OF 10/S3.1. PROVIDE CORNER BARS AT ALL WALL AND TERSECTIONS. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 12" AT SIDES	24. AT NON-SHEARWALL EXTERIOR WALLS, UNLESS OTHERWISE NOTED, WALL SHEATHING SHALL BE 72 (NOMINAL) WITH SPAN RATING OF 24%; WITH 8d @ 6" oc PANEL NAILING (APPLIES TO ALL SHEATHING PANEL EDGES); AND 8d @ 12" oc TO INTERMEDIATE FRAMING.	BLOCKING BETWEEN RAFTERS OR TRUSS NOT	3-3" x 14 GAGE STAPLES, ¼ ₆ " CROWN 2-8d COMMON (2½" x 0.131") 2-3" x 0.131" NAILS	EACH END, TOENAIL	16. STUD TO TOP OR BOTTOM PLATE	$4-3" \times 14$ GAGE STAPLES, $\frac{7}{6}"$ CROWN $4-8d$ COMMON ($2\frac{1}{2}" \times 0.131"$); or $4-10d$ BOX ($3" \times 0.128"$); or	
NO BAR'S PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS NOTED ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER. PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:	25. ALL PRESSURE – TREATED (P.T.) WOOD MEMBERS SPECIFIED ON THE DRAWINGS THAT OCCUR ABOVE GROUND AND CONTINUOUSLY PROTECTED FROM MOISTURE (INTERIOR LOCATIONS) SHALL BE PRESSURE – TREATED WITH DOT SODIUM BORATE (SBX) WITHOUT NGSIO ₂ . AT LOCATIONS PERMANENTLY EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, WOOD MEMBERS SHALL BE PRESSURE – TREATED	AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2-3" x 14 GAGE STAPLES 2-16d COMMON $(3\frac{1}{2}$ " x 0.162") 3-3" x 0.131" NAILS	END NAIL		$4-3" \times 0.131"$ NAILS; or $4-3" \times 14$ GAGE STAPLES, $7_{6}"$ CROWN $2-16d$ COMMON ($3\%" \times 0.162"$); or	TOENAIL
AND OTHER UNFORMED SURFACES AINST AND PERMANENTLY EXPOSED TO EARTH	WITH ALKALINE COPPER QUAT (ACQ-C FOR DOUGLAS-FIR) PRESERVATIVE UNLESS OTHERWISE NOTED. AMMONIACAL COPPER ZINC ARSENATE (ACZA) PRESERVATIVE OR OTHER PRESERVATIVES WITH AMMONIA CARRIERS, SHALL NOT BE USED. GLUED LAMINATED MEMBERS EXPOSED TO WEATHER OR MOISTURE SHALL BE TREATED WITH A	FLAT BLOCKING TO TRUSS AND WEB FILLER	16d COMMON $(3\frac{1}{2}" \times 0.162")$ @ 6" oc 3" x 0.131" NAILS @ 6" oc 3" x 14 CACE STADLES @ 6" oc	FACE NAIL		3–10d BOX (3" x 0.128"); or 3–3" x 0.131" NAILS; or 3–3" x 14 GAGE STAPLES, 7/16" CROWN	END NAIL
GENT SHALL BE "MASTEREMACO ADH 326" BY BASE CORPORATION. OR EQUIVALENT, AND JSED WHERE NEW CONCRETE IS PLACED AGAINST HARDENED CONCRETE. PLACE IN STRICT E WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING PREPARATION OF EXISTING SURFACES. SHALL BE CONSIDERED HARDENED AFTER 56 DAYS.	NON-CORROSIVE, APPROVED PRESERVATIVE. SEE NOTE #27 FOR MATERIAL REQUIREMENTS OF CONNECTORS AND FASTENERS IN CONTACT WITH PRESSURE-TREATED MEMBERS. 26. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON	2. CEILING JOISTS TO TOP PLATE	3-8d COMMON (2½" x 0.131"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or $3-3$ " x 14 GAGE STAPLES $\frac{7}{6}$ " CROWN	EACH JOIST, TOENAIL	17. TOP OR BOTTOM PLATE TO STUD	2–16d COMMON (3½" x 0.162"); or 3–10d BOX (3" x 0.128"); or 3–3" x 0.131" NAILS; or 3–3" x 14 GAGE STAPLES, 7/6" CROWN	END NAIL
k grout shall be furnished by an approved manufacturer and shall be mixed and strict accordance with the manufacturer's instructions. grout strength shall be iqual to the material on which it is placed (6,000 psi minimum). IC TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS	COMPANY, AS SPECIFIED N THEIR WOOD CONSTRUCTION CONNECTORS CATALOG NO. C-C-2017-18. INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, CENTER STRAP ON JOINT AND INSTALL NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER, WITH EQUAL NUMBER AND SIZE OF FASTENERS IN EACH MEMBER. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. INSTALL WASHERS UNDER THE HEADS AND	3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITION (NO THRUST)	$3-16d$ COMMON ($3\frac{1}{2}$ " x 0.162"); or 4-10d BOX (3 " x 0.128"); or 4-3" x 0.131" NAILS; or $4-3$ " x 14 GAGE STAPLES, $\frac{7}{6}$ " CROWN	FACE NAIL	18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2–16d COMMON (3½" x 0.162"); or 3–10d BOX (3" x 0.128"); or 3–3" x 0.131" NAILS; or 3–3" x 14 GAGE STAPLES, 7/6" CROWN	FACE NAIL
AND TESTS OF CONCRETE CONSTRUCTION verification & inspection continuous periodic ref std. ibc ref. ispect reinforcement, including restressing tendons and verify placement. X 25.2, 25.3	NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED. ALL TIMBER CONNECTORS IN CONTACT WITH PRESSURE-TREATED WOOD THAT USED PRESERVATIVE	(SEE 2308.7.3.1, TABLE 2308.7.3.1) 4. CEILING JOIST ATTACHED	PER TABLE 2308.7.3.1	FACE NAIL	19. 1" BRACE TO EACH STUD AND PLATE	2-8d COMMON ($2\frac{1}{2}$ " x 0.131"); or 2-10d BOX (3" x 0.128"); or 2-3" x 0.131" NAILS; or	FACE NAIL
EINFORCING BAR WELDING: . VERIFY WELDABILITY OF REINFORCING BARS X OTHER THAN ASTM A 706. . INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND INSPECT ALL OTHER WELDS X X X	CHEMICALS OTHER THAN DOT SODIUM BORATE (SBX) WITHOUT NoSIO2 SHALL BE MANUFACTURED FROM Z _{MAX} STEEL BY SIMPSON (G185 STEEL PER ASTM A653), OR TYPE 304 OR 316 STAINLESS STEEL. ALTERNATIVELY, CONNECTORS CAN BE POST HOT DIP GALVANIZED PER ASTM A123 OR MECHANICALLY GALVANIZED PER ASTM B695. CLASS 55 OR GREATER. STAINLESS STEEL FASTENERS SHALL BE USED WITH	10 PARALLEL RAFTER (HEEL JOINT) 5. COLLAR TIE TO RAFTER	3-10d COMMON (3" x 0.148"); or 4-10d BOX (3" x 0.128"); or	FACE NAIL	20. 1" x 6" SHEATHING TO EACH BEARING	2-3" x 14 GAGE STAPLES, 16" CROWN 2-8d COMMON (2½" x 0.131"); or 2-10d BOX (3" x 0.128"); or	FACE NAIL
INSECT ANCHORS CAST IN CONCRETE. X ACI 318: 17.8.2 VSPECT ANCHORS POST-INSTALLED IN HARDENED ONCRETE MEMBERS. X ACI 318: 17.8.2	STAINLESS STEEL CONNECTORS, AND HOT DIP GALVANIZED FASTENERS PER ASTM A153 SHALL BE USED WITH GALVANIZED CONNECTORS. 27. WOOD FRAMING NOTES: THE FOLLOWING SHALL APPLY UNLESS OTHERWISE NOTED ON THE DRAWINGS:	6 RAFTER OR ROOF TRUSS	$4-3^{\circ}$ x 0.131° NAILS; or $4-3^{\circ}$ x 14 GAGE STAPLES, 7_{16}° CROWN 3-104 COMMON (3° x 0.148°); or	τοενιαι	21. 1" x 8" AND WIDER SHEATHING TO EACH BEARING	3-8d COMMON (2½" x 0.131"); or 3-10d BOX (3" x 0.128"); or	FACE NAIL
OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS X X ACI 318: 17.8.2.4 MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A ACI 318: 17.8.2.4 YERIFY USE OF REQUIRED DESIGN MIX. X ACI 318: CH. 19, 26.4.3, 26.4.4 1904.1, 1904.2, 1908.2, 1908.3	A. ALL WOOD FRAMING DETAILS SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE SBC. MINIMUM NAILING SHALL CONFORM TO SBC TABLE 2304.9.1 OR CURRENT ICC-ES REPORT NER-272. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. INSTALL WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. INSTALLATION OF LAG SCREWS SHALL CONFORM TO 2012	TO TOP PLATE (SEE 2308.7.5, TABLE 2308.7.5)	$3-16d \text{ BOX } (3\frac{1}{2}^{\circ} \times 0.148^{\circ})$; or $4-16d \text{ BOX } (3\frac{1}{2}^{\circ} \times 0.128^{\circ})$; or $4-3^{\circ} \times 0.131^{\circ} \text{ NAILS}$; or $4-3^{\circ} \times 14 \text{ GAGE STAPLES}$, $\frac{7}{16}^{\circ} \text{ CROWN}$		22. JOIST TO SILL, TOP PLATE, OR GIRDER	FLOOR 3-8d COMMON (2½" x 0.131"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS: or	TOENAIL
PECIMENS FOR STRENGTH TESTS, PERFORM X ASTM C 172 PECIMENS FOR STRENGTH TESTS, AND DETERMINE X ASTM C 172 HE TEMPERATURE OF THE CONCRETE. 26.4.5, 26.12	NDS SECTION 11.1.4, AND INSTALLATION OF BOLTS SHALL CONFORM TO 2012 NDS SECTION 11.1.3.	7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS;	2-16d COMMON $(3\frac{1}{2}^{"} \times 0.162")$; or 3-10d BOX $(3^{"} \times 0.128")$: or	END NAIL		3-3" x 14 GAGE STAPLES, 7/6" CROWN	
NSPECT CONCRETE AND SHOTCRETE PLACEMENT X ACI 318: 26.4.5 1908.6, 1908.7, 1908.8 OR PROPER APPLICATION TECHNIQUES. X X ACI 318: 26.4.5 1908.9 ERIFY MAINTENANCE OF SPECIFIED CURING X ACI 318: 26.4.7 1908.9 SMPERATURE AND TECHNIQUES. X ACI 318: 26.4.7 1908.9 VSPECT PRESTRESSED CONCRETE FOR: X ACI 318: 26.0.2.1	B. WALL FRAMING: TWO STUDS MINIMUM SHALL BE INSTALLED AT THE ENDS OF ALL WALLS, UNLESS NOTED OTHERWISE NOTED. INSTALL SOLID BLOCKING FOR WOOD COLUMN THROUGH FLOOR SPACES TO SUPPORTS BELOW. ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING	OR ROOF RAFTER TO 2" RIDGE BEAM	$3-3" \times 0.131$ NAILS; or $3-3" \times 14$ GAGE STAPES, $7_{16}"$ CROWN $3-10d$ COMMON ($3\frac{1}{2}" \times 0.148"$); or $3-16d$ BOX ($3\frac{1}{2}" \times 0.135"$); or	TOENAIL	23. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL, OR OTHER FRAMING BELOW	8d COMMON (2½" x 0.131"); or 10d BOX (3" x 0.128"); or 3" x .131" NAILS; r 3" x 14 GAGE STAPLES, 7/6" CROWN	6"o.c., TOENAIL
ACI 318: 26.9.2.1 ACI 318: 26.9.2.3 INSPECT ERECTION OF PRECAST CONCRETE MEMBERS. X ACI 318: CH. 26.8	BELOW WITH 16d NAILS @ 12" oc STAGGERED OR BOLTED TO CONCRETE WITH 5%"Ø ANCHOR BOLTS @ 4'-0" oc PER SBC SECTION 2308.6 (EMBED 7"), UNLESS OTHERWISE NOTED. 3" x 3" x 0.229" PLATE WASHERS SHALL BE USED WITH ALL SILL PLATE ANCHOR BOLTS AND		4–10d BOX (3" x 0.128"); or 4–3" x 0.131 NAILS; or 4–3" x 14 GAGE STAPES, 7/6" CROWN		24. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON (2½" x 0.131"); or 2-10d BOX (3" x 0.128")	FACE NAIL
STRESSING OF TENDONS IN POST-TENSIONED X ACI 318: 26.10.2 AND FORMS FROM BEAMS AND STRUC'L SLABS. X ACI 318: 26.10.2	INSTALLED PER AF&PA SDPWS-2008 SECTION 4.3.6.4.3. INDIVIDUAL MEMBERS OF BUILT-UP STUD POSTS SHALL BE NAILED TO EACH OTHER WITH 16d @ 12" oc STAGGERED.	8. STUD TO STUD (NOT AT	WALL 16d COMMON (3½" × 0.162")"	24" oc FACE NAIL	25. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3½" × 0.162")	FACE NAIL
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. PER IBC SECTION 1705.3 APPLIES TO CONCRETE WORK ON THIS PROJECT.	C. FLOOR AND ROOF FRAMING: INSTALL SOLID BLOCKING AT ALL BEARING POINTS. TOENAIL JOISTS TO SUPPORTS WITH (2)16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI-JOIST	SHEARWALL CHORDS)	10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or	16" oc FACE NAIL	26. 2" PLANKS (PLANK & BEAM – FLOOR & ROOF)	2-16d COMMON (3½" x 0.162")"	EA. BEARING, FACE NAIL
IMBER SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH TANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17 OR W.W.P.A. WESTERN LUMBER JLES. FURNISH TO THE FOLLOWING MINIMUM STANDARDS: ATES, LEDGERS & MISC.DOUGLAS FIR NO. 3 OR STUD GRADE OUGLAS FIR NO. 3 OR STUD GRADE MIN. BASIC DESIGN STRESS, $F_b = 525$ PSI, $E = 1400$ KSI	BEAMS TOGETHER WITH 16d@12 oc STAGGERED. ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AS SHOWN ON THE DRAWINGS. INSTALL APPROVED PANEL EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED TONGUE-AND-GROOVE 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"oc. IN ACCORDANCE WITH SBC	9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTION WALL CORNERS	$\begin{array}{c} 3-3 \ \text{ x 14 GAGE STAPLES, } & \gamma_{16} \ \text{CROWN} \\ \hline 16d \ \text{COMMON} \ (3\frac{1}{2}'' \ \text{x 0.162''})''; \ \text{or} \\ \hline 16d \ \text{BOX} \ (3\frac{1}{2}'' \ \text{x 0.135''})''; \ \text{or} \\ \hline 3'' \ \text{x 0.131''} \ \text{NAILS; } \ \text{or} \\ \hline 3-3'' \ \text{x 14 GAGE STAPLES, } & \gamma_{16}'' \ \text{CROWN} \end{array}$	16" oc FACE NAIL 12" oc FACE NAIL 12" oc FACE NAIL	27. BUILT-UP GIRDERS AND BEAMS, 2"LUMBER LAYERS	20d COMMON (4" x 0.192") 10d BOX (3" x 0.128"); or 3" x 0.131" NAILS: or	32" o.c., FACE NAIL TOP & BOT. STAGGERED ON OPPOSITE SIDES 24" o.c., FACE NAIL AT TOP &
ISTS & RAFTERS: $\begin{array}{rcl} F_c &=& 775 \ \text{PSI}, \ F_t &=& 325 \ \text{PSI} \\ DOUGLAS \ \text{FIR NO. 2} \\ MIN. \ \text{BASIC DESIGN STRESS}, \ F_b &=& 900 \ \text{PSI}, \ E &=& 1600 \ \text{KSI} \\ F_c &=& 1350 \ \text{PSI}, \ F_t &=& 575 \ \text{PSI} \end{array}$	SECTION 1604.8.3, DECKS SHALL BE POSITIVELY ANCHORED TO THE STRUCTURE BY MEANS OTHER THAN NAILS SUBJECT TO WITHDRAWAL. ANCHOR WITH MINIMUM (1) CS16 STRAP AT EACH END ATTACHED TO DECK JOISTS AND TO A SOLID BLOCKING MEMBER WITHIN THE BUILDING.	10. BUILT-UP HEADER (2" TO 2" HDR.)	16d COMMON $(3\frac{1}{2}" \times 0.162")"$; or 16d BOX $(3\frac{1}{2}" \times 0.135")$	16" oc EA. EDGE, FACE NAIL 12" oc EA. EDGE,		$3^{\circ} \times 14^{\circ}$ Gage staples, 7_{6}° crown AND:	BOT. STAGGERED ON OPP. SIDES
AMS:DOUGLAS FIR NO. 1 $4x_{-}$ MIN. BASIC DESIGN STRESS, $F_b = 1000$ PSI, $E = 1700$ KSI $F_c = 1500$ PSI, $F_t = 675$ PSI $6x_{-}$ MIN. BASIC DESIGN STRESS, $F_b = 1350$ PSI, $E = 1600$ KSI	D. <u>NAILING</u> : A MINIMUM NAIL DIAMETER AND LENGTH SHALL BE AS FOLLOWS: <u>NAIL SIZE ON DRAWINGS</u> <u>DIAMETER x LENGTH</u> SHEATHING NAILS 8d 0.131" x 2½"	11. CONTINUOUS HEADER TO STUD	4-8d COMMON (2½" x 0.131"); or 4-10d BOX (3" x 0.128")	FACE NAIL TOENAIL		2-200 COMMON (4 x 0.192); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or $3-3$ " x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN	ENDS AND AT EACH SPLICE, FACE NAIL
$F_{c} = 925 \text{ PSI}, F_{t} = 675 \text{ PSI}$ $DUUMNS: DOUGLAS FIR NO. 1$ $4x_{-} MIN. BASIC DESIGN STRESS, F_{b} = 1000 \text{ PSI}, E = 1700 \text{ KSI}$ $F_{c} = 1500 \text{ PSI}, F_{t} = 675 \text{ PSI}$	FRAMING NAILS 10d 0.148" x 2½" 16d 0.148" x 3"	12. TOP PLATE TO TOP PLATE	16d COMMON (3½" x 0.162"); or 10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or	16" oc FACE NAIL 12" oc FACE NAIL	28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3–16d COMMON (3½" x 0.162"); or 4–10d BOX (3" x 0.128"); or 4–3" x 0.131" NAILS; or 4–3" x 14 GAGE STAPLES. 76" CROWN	EACH JOIST OR RAFTER, FACE NAIL
$6x_{-}$ MIN. BASIC DESIGN STRESS, $F_b = 1200$ PSI, $E = 1600$ KSI $F_c = 1000$ PSI, $F_t = 825$ PSI IRED LUMBER SHALL BE AS MANUFACTURED BY TRUS JOIST OR APPROVED EQUAL. REQUESTS VAL AS EQUAL WILL REQUIRE SUBMITTAL OF ICC REPORT EQUIVALENT TO ESR-1387 FOR	E. <u>WOOD SHRINKAGE:</u> THE PLUMBING, FIRE PROTECTION, DRAINAGE, MECHANICAL, ELECTRICAL, CLADDING, AND OTHER SYSTEMS INSTALLED WITHIN THE BUILDING SHALL BE DESIGNED AND CONSTRUCTED TO ACCOMMODATE VERTICAL SHRINKAGE AT ALL WOOD FRAMING LEVELS. THE	13. TOP PLATE TO TOP PLATE, AT END JOINTS	$3" \times 14$ GAGE STAPLES, $7_{6}"$ CROWN 8-16d COMMON ($3\frac{1}{2}" \times 0.162"$); or 12-10d BOX ($3" \times 0.128"$); or	EACH SIDE OF END JOINT, FACE NAIL	29. JOIST TO BAND JOIST OR RIM JOIST	$3-16d$ COMMON ($3\frac{1}{2}$ " x 0.162"); or 4-10d BOX (3 " x 0.128"); or 4-3" x 0.131" NAILS; or	END NAIL
VENEER LUMBER (LVL, LAMINATED STRAND LUMBER (LSL), OR PARALLEL STRAND LUMBER E MINIMUM ALLOWABLE DESIGN VALUES ARE AS FOLLOWS: $I_{-} F_{b} = 2,600$ $F_{v} = 290$ PSI $E = 2,000,000$ PSI $L_{-} F_{b} = 1,900$ $F_{v} = 150$ PSI $E = 1,300,000$ PSI	WOOD SHRINKAGE AMOUNT SHALL BE ASSUMED TO EQUAL 78 FOR EACH WOOD FRAMED FLOOR LEVEL.	14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST,	$12-3^{\circ} \times 0.131^{\circ}$ NAILS; or $12-3^{\circ} \times 14^{\circ}$ GAGE STAPLES, $\frac{7}{6}^{\circ}$ CROWN 16d COMMON ($3\frac{1}{2}^{\circ} \times 0.162^{\circ}$)"; or	SPLICE LENGTH EA. SIDE OF END JOINT 16" oc FACE NAIL	30. BRIDGING OR BLOCKING TO JOIST, RAFTER, OR TRUSS	4-3" x 14 GAGE STAPLES, 7/6" CROWN 2-8d COMMON (2½" x 0.131"); or 2-10d BOX (3" x 0.128"); or 2-3" x 0.131" NAILS; or	EACH END,
INATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND A.I.T.C. STANDARDS ANCE WITH SBC SECTION 2303.1.3. EACH MEMBER SHALL BEAR AN A.I.T.C. IDENTIFICATION SHALL BE ACCOMPANIED BY AN A.I.T.C. CERTIFICATE OF CONFORMANCE. HORIZONTAL MEMBERS ED MEMBERS OF LESS THAN 1:1 SLOPE SHALL HAVE A RADIUSED CAMBER OF 3,500 FT. HERWISE NOTED. WPLE SPAN BEAMS DOUGLAS FIR COMBINATION 24F-V4		OR BLOCKING NOT AT SHEARWALL	16d BOX (3½° x 0.135°)"; or 3" x 0.131" NAILS; or 3" x 14 GAGE STAPLES, 7/6" CROWN	12" oc FACE NAIL		2–3" x 14 GAGE STAPLES, $7_{ m 6}$ " CROWN	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$							
ATED CONNECTOR PLATE WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN THE WITH ANSI/TPI I—2007 AND IBC SECTION 2303.4 FOR THE SPANS AND CONDITIONS SHOWN AWINGS. DESIGN LOADS SHALL BE AS FOLLOWS: RUSSES THORD LIVE LOAD 25 PSF SNOW							
DM CHORD LIVE LOAD 0 PSF ~or~ 20 PSF AT ATTIC TRUSSES CHORD DEAD LOAD 7.5 PSF DM CHORD DEAD LOAD 7.5 PSF ~or~ 12.5 PSF AT ATTIC TRUSSES DM CHORD DEAD LOAD 7.5 PSF ~or~ 12.5 PSF AT ATTIC TRUSSES DUPLIFT (TOP CHORD) SEE NOTE#2 COMPONENTS & CLADDING ROOF LOADS MANUFACTURER SHALL COORDINATE LOCATIONS AND SUPPORT CONFIGURATIONS OF PLUMBING, L L UNITS, DUCTS, AND/OR OTHER MISCELLANEOUS ITEMS WITH THE CONTRACTOR PRIOR TO DEMONSTRACTOR PRIOR TO							

<u>ROOF TRUSSES</u>	
TOP CHORD LIVE LOAD	25 PSF
BOTTOM CHORD LIVE LOAD	0 PSF
TOP CHORD DEAD LOAD	7.5 PS
BOTTOM CHORD DEAD LOAD	7.5 PS
<i>,</i> , , , , , , , , , , , , , , , , , ,	

IRUSS FABRICATION. THE TRUSS MANUFACTURER SHALL DESIGN TRUSSES TO SUPPORT ALL LOADS ASSOCIATED WITH SUCH ITEMS. THE TRUSS SHOP DRAWINGS SHALL INCLUDE ALL DESIGN LOADS AND APPROVED HANGER CONNECTION DETAILS TO TRUSS CHORDS FOR SUPPORT OF HUNG MECHANICAL SYSTEM COMPONENTS AS APPLICABLE.

WOOD TRUSSES SHALL UTILIZE APPROVED CONNECTOR PLATES (GANGNAIL OR EQUAL). SHOP DRAWINGS AND CALCULATIONS SHALL BE PROVIDED AS A DEFERRED SUBMITTAL TO THE CONTRACTOR AND STRUCTURAL ENGINEER OF RECORD PER GENERAL STRUCTURAL NOTE 13. SHOP DRAWINGS SHALL INDICATE SHAPES, BEARING POINTS, INTERSECTIONS, HIPS, VALLEYS, ETC. 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 OTHERWISE NOTED ON THE DRAWINGS. THE TRUSS MANUFACTURER SHALL PROVIDE ALL TRUSS-TO-TRUSS BEAM/JOIST CONNECTION DETAILS AND REQUIRED CONNECTION MATERIALS. THE TRUSS MANUFACTURER SHALL DESIGN AND PROVIDE DETAILS FOR ALL TEMPORARY AND PERMANENT TRUSS BRACING AND BRIDGING.





	CONNECTOR	TABLE
	SIMPSON DESIGNATION	NOTES
$\langle A \rangle$	PBS	POST BASE
B	CCQ	COLUMN CAP
$\langle 0 \rangle$	AC4	COLUMN CAP
$\langle D \rangle$	JB210A	TOP FLANGE HANGER
(E)	HGLT	HEAVY DUTY TOP FLANGE HANGER
(F)	LUS410Z	TOP FLANGE HANGER
G	ITS ~or~ IUS	HANGER
	ITS worn IIIS	INIVERTED HANIGER







FOUNDATION PLAN NOTES

- SOLID WALLS SHOWN IN PLAN ARE ABOVE FOUNDATION LEVEL (FROM FOUNDATION TO UNDERSIDE OF MAIN FLOOR FRAMING).
 EXTERIOR STUDWALLS SHALL BE 2x6 STUDS @ 16" oc (MAX). SEE ARCHITECTURAL FOR INTERIOR STUDWALLS. SEE 6/6.2, 5/S6.2, AND 2/S6.2 FOR ALLOWABLE HOLES & NOTCHES IN STUDWALL STUDS AND TOP & BOTTOM PLATES.
- 3. SEE STRUCTURAL GENERAL NOTES #14 19 FOR CONCRETE AND CONCRETE REINFORCING REQUIREMENTS.
- 4. SEE GENERAL STRUCTURAL NOTE #11 FOR FOUNDATION CRITIERIA.

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





	CONCRETE WALL BELOW	SW	DENOTES EXTENT OF SHEARWALL
	CONCRETE WALL		
	STRUCTURAL WOOD STUDWALL	SW*	DENOTES STRAPPED SHEARWALL PER 7/S6.6 WITH ☆DENOTING STRAP PER
	POST BELOW		SCHEDULE ABOVE & BELOW OPENING
	POST	HDU	DENOTES SHEARWALL TENSION TIE
	HEADER or BEAM	MSTC	PER 4/SO.0 or 8/SO.0 * – DENOTES TRANSFER TIE FROM TIE ABOVE ^S – DENOTES TIE ATOP STEEL BEAM, SEE 8/S6.6
	JOIST		

	CONNECTOR TABLE					
	SIMPSON DESIGNATION	NOTES				
$\langle A \rangle$	PBS	POST BASE				
$\langle B \rangle$	CCQ	COLUMN CAP				
$\langle 0 \rangle$	AC4	COLUMN CAP				
$\langle D \rangle$	JB210A	TOP FLANGE HANGER				
Æ>	HGLT	HEAVY DUTY TOP FLANGE HANGER				
$\langle F \rangle$	LUS410Z	TOP FLANGE HANGER				
G	ITS ~or~ IUS	HANGER				
$\langle H \rangle$	ITS ~or~ IUS	INVERTED HANGER				
$\langle \rangle$	HHUS5.50/10	HANGER				
$\langle J \rangle$	HUC412	CONCEALED FLANGE HANGER				
$\langle K \rangle$	CBS	POST BASE				
$\langle D \rangle$	BA3.56	TOP FLANGE HANGER				
$\langle M \rangle$	LUS26	FACE MOUNT HANGER				
$\langle N \rangle$	HU1.81/5	INVERTED HANGER				
$\langle 0 \rangle$	HHUS46	INVERTED HANGER				
$\langle P \rangle$	JB ~or~ LUS	HANGER				
$\langle Q \rangle$	FPC67	END POST CAP				





MAIN FLOOR FRAMING PLAN NOTES

 SOLID WALLS SHOWN IN PLAN ARE ABOVE MAIN FLOOR FRAMING ELEVATION (FROM MAIN FLOOR TO UNDERSIDE OF UPPER FLOOR). DASHED WALLS SHOWN IN PLAN ARE BELOW MAIN FLOOR FRAMING ELEVATION (FROM FOUNDATION TO UNDERSIDE OF MAIN FLOOR FRAMING)
 EXTERIOR STUDWALLS SHALL BE 2x6 STUDS @ 16" oc (MAX). SEE ARCHITECTURAL FOR INTERIOR STUDWALLS. SEE 6/6.2, 5/S6.2, AND

2/S6.2 FOR ALLOWABLE HOLES & NOTCHES IN STUDWALL STUDS AND TOP & BOTTOM PLATES. 3. FLOOR SHEATHING SHALL CONSIST OF ¾" T&G SHEATHING (PANEL SPAN RATING 48/24). NAIL SHEATHING AT ALL FRAMED PANEL EDGES, DIAPHRAGM BOUNDARIES, AND SHEAR WALLS w/ 10d @ 6" oc; AND AT ALL INTERMEDIATE SUPPORTS w/ 10d @ 12" oc (SEE 3/S6.1). GLUE SHEATHING AT ALL SUPPORTS w/ ADHESIVE CONFORMING TO ASTM SPECIFICATION D3498.

4. ALL HEADERS ABOVE (SEE 1/S2.3) SHALL HAVE A MINIMUM NUMBER OF POSTS PER 4/S6.2 AT NON-LOAD BEARING EXTERIOR WALLS, AND PER 6/S6.2 AT LOAD BEARING EXTERIOR WALLS







<u>LEGEND</u> sw-_ DENOTES EXTENT OF SHEARWALL I ____ STRUCTURAL WOOD STUDWALL BELOW TYPE SW-_ PER 1/S6.5 STRUCTURAL WOOD STUDWALL BENOTES STRAPPED SHEARWALL PER 7/S6.6, WITH ☆DENOTING STRAP PER SCHEDULE ABOVE & BELOW OPENING CI POST BELOW ⊠ POST DENOTES SHEARWALL TENSION TIE HEADER or BEAM PER 4/S6.6 or 8/S6.6 <u>MSTC</u> * - DENOTES TRANSFER TIE FROM TIE ABOVE ^S – DENOTES TIE ATOP STEEL BEAM, SEE 8/S6.6 JOIST

	CONNECTOR TABLE						
	SIMPSON DESIGNATION	NOTES					
$\langle A \rangle$	PBS	POST BASE					
B	CCQ	COLUMN CAP					
$\langle 0 \rangle$	AC4	COLUMN CAP					
$\langle D \rangle$	JB210A	TOP FLANGE HANGER					
(E)	HGLT	HEAVY DUTY TOP FLANGE HANGER					
(E)	LUS410Z	TOP FLANGE HANGER					
G	ITS ~or~ IUS	HANGER					
(H)	ITS ~or~ IUS	INVERTED HANGER					
	HHUS5.50/10	HANGER					
	HUC412	CONCEALED FLANGE HANGER					
$\langle K \rangle$	CBS	POST BASE					
	BA3.56	TOP FLANGE HANGER					
$\langle M \rangle$	LUS26	FACE MOUNT HANGER					
$\langle \mathbb{N} \rangle$	HU1.81/5	INVERTED HANGER					
\bigcirc	HHUS46	INVERTED HANGER					
$\langle \mathbb{P} \rangle$	JB ~or~ LUS	HANGER					
$\langle \mathbb{Q} \rangle$	EPC6Z	END POST CAP					







UPPER FLOOR FRAMING PLAN

MAIN FLOOR FRAMING PLAN NOTES

1/4" = 1'-0"



PER 6/S6.2 AT LOAD BEARING EXTERIOR WALLS

1. SOLID WALLS SHOWN IN PLAN ARE ABOVE MAIN FLOOR FRAMING ELEVATION (FROM UPPER FLOOR TO UNDERSIDE OF ROOF).

5. HEADERS IN EXTERIOR WALLS NOT SUPPORTING RAFTERS, JOISTS, OR BEAMS SHALL BE PER DETAIL 4/S6.1 U.N.O. IN PLAN.

FOR ALLOWABLE HOLES & NOTCHES IN STUDWALL STUDS AND TOP & BOTTOM PLATES.

GLUE SHEATHING AT ALL SUPPORTS w/ ADHESIVE CONFORMING TO ASTM SPECIFICATION D3498.

DASHED WALLS SHOWN IN PLAN ARE BELOW UPPER FLOOR FRAMING ELEVATION (FROM MAIN FLOOR TO UNDERSIDE OF UPPER FLOOR FRAMING) 2. EXTERIOR STUDWALLS SHALL BE 2x6 STUDS @ 16" oc (MAX). SEE ARCHITECTURAL FOR INTERIOR STUDWALLS. SEE 6/6.2, 5/S6.2, AND 2/S6.2

3. FLOOR SHEATHING SHALL CONSIST OF 3/4" T&G SHEATHING (PANEL SPAN RATING 48/24). NAIL SHEATHING AT ALL FRAMED PANEL EDGES, DIAPHRAGM BOUNDARIES, AND SHEAR WALLS w/ 10d @ 6" oc; AND AT ALL INTERMEDIATE SUPPORTS w/ 10d @ 12" oc (SEE 3/S6.1).

4. ALL HEADERS ABOVE (SEE 1/S2.3) SHALL HAVE A MINIMUM NUMBER OF POSTS PER 4/S6.2 AT NON-LOAD BEARING EXTERIOR WALLS, AND

STRUCTURAL ENGINEERS Island esidence Mercer NE CO hang Ve \mathbf{A} 2nd \bigcirc Mu. 2956 CONTENTS Upper Floor Framing Plan DRAWN BY JDA DATE 03.05.24 S2.3

LEGEND

1===1	STRUCTURAL WOOD STUDWALL BELOW	
[]	POST BELOW	

CONNECTOR PLATE WOOD TRUSS

------ HEADER or BEAM

ROOF FRAMING

	CONNECTOR TABLE						
	SIMPSON DESIGNATION	NOTES					
$\langle A \rangle$	PBS	POST BASE					
B	CCQ	COLUMN CAP					
$\langle \underline{C} \rangle$	AC4	COLUMN CAP					
$\langle D \rangle$	JB210A	TOP FLANGE HANGER					
Æ	HGLT	HEAVY DUTY TOP FLANGE HANGER					
(E)	LUS410Z	TOP FLANGE HANGER					
G	ITS ~or~ IUS	HANGER					
$\langle H \rangle$	ITS ~or~ IUS	INVERTED HANGER					
	HHUS5.50/10	HANGER					
$\langle \mathbf{J} \rangle$	HUC412	CONCEALED FLANGE HANGER					
$\langle K \rangle$	CBS	POST BASE					
	BA3.56	TOP FLANGE HANGER					
$\langle M \rangle$	LUS26	FACE MOUNT HANGER					
$\langle N \rangle$	HU1.81/5	INVERTED HANGER					
$\langle 0 \rangle$	HHUS46	INVERTED HANGER					
$\langle P \rangle$	JB ~or~ LUS	HANGER					
$\langle \mathbb{Q} \rangle$	EPC6Z	END POST CAP					



ROOF FRAMING PLAN NOTES

- 1. ROOF SHEATHING SHALL CONSIST OF 5%" SHEATHING (PANEL SPAN RATING 32/16) NAILED AT ALL FRAMED PANEL EDGES, DIAPHRAGM BOUNDARIES, AND SHEAR WALLS w/ 10d @ 6" oc; AND AT ALL INTERMEDIATE SUPPORTS w/ 10d @ 12" oc (SEE 3/S6.2). 2. DASHED WALLS AND SHEARWALLS SHOWN IN PLAN ARE BELOW ROOF FRAMING ELEVATION.
- 3. PROVIDE H2.5A HURRICANE TIES AT EACH END OF ALL ROOF FRAMING.
- 4. ALL HEADERS SHALL HAVE A MINIMUM NUMBER OF POSTS PER 4/S6.1 AT NON-LOAD BEARING EXTERIOR WALLS, AND PER 6/S6.1 AT LOAD BEARING EXTERIOR WALLS.
- 5. HEADERS IN EXTERIOR WALLS NOT SUPPORTING RAFTERS, JOISTS, OR BEAMS SHALL BE PER DETAIL 4/S6.1 U.N.O. IN PLAN.
- 6. SEE GENERAL STRUCTURAL NOTE #9, 10, AND 22 FOR CONNECTOR PLATE ROOF TRUSS REQUIREMENTS.

ROOF FRAMING PLAN

1/4" = 1'-0"

S2.4





- H2.5A FROM OUTRIGGER TO DOUBLE TOP PLATE

– DESIGN TRUSS GIRDER TO RECEIVE (2)¼"¢x3½" SDS SCREWS FROM OUTRIGGER AND 300# UPWARD FORCE





CONSULTING STRUCTURAL ENGINEERS Mercer Island Residence - I I-Chang I 72nd Ave SE Mu. 2956 CONTENTS Typical Framing Details DRAWN BY JDA DATE 03.05.24 S6.

 \frown 6 \bigcirc Typical Rimboard Header & Wind Header in load bearing exterior wall

OPENING WIDTH, L RIM/HEADER SIZE MINIMUM No. OF STUD

UPPER FLOOR

 $L \leq 2'-6"$ $1\frac{3}{4}"x11\frac{7}{8}"$ LVL (2)2x6 $L \le 5' - 0"$ $1\frac{3}{4}"x11\frac{7}{6}"$ LVL (3)2x6

 $L \le 12' - 0"$ (2)1³/₄"x11⁷/₈" LVL (3)2x6

S6.2 NTS

WIND HEADER -PER 4/S6.2 • OPENING BELOW \frown 3 \bigcirc Typical wind header in Non-load bearing exterior wall S6.2 NTS TYP. STUDS ABOVE -WHERE OCCURS RIM BOARD AND -BLKG. PER 2/S6.3 WIND HEADER — PER 4/S6.2 TRIMMER STUDS -PER 4/S6.2 2 \setminus TYPICAL WIND HEADER DETAIL S6.2 NTS

SEE DETAIL 2/S6.3 FOR CALL OUTS IN COMMON

SECTION THROUGH EXTERIOR WALL AT PERPENDICULAR INTERIOR AND DECK JOISTS 6 \ 56.3 / 1" = 1'-0"

<u>SI(</u>	ON TIE SCH	IEDULE		
)	Min. # of studs	CLEAR SPAN AND ② TOTAL FASTENERS	asd ⁽³⁾ Capacity	BUILT-UP STUD FACE NAILS or SCREWS ④
	(2)2x	18" - (12)0.148"ø x 3¼"	1,150#	10d @ 6"oc
	(2)2x	18" - (28)0.148"ø x 3¼"	2,690#	10d @ 4" oc
	(3)2x	18" – (44)0.148"ø x 3¼"	4,225#	(8)¼"øx4½" SDS
	(3)2x	18" – (64)0.148"ø x 3¼"	5,850#	(12)¼"øx6" SDS
2	(4)2x	18" - (64)0.148"ø x 3¼"	7,750#	(14)¼"øx6" SDS
_			0.000 //	(40)1/" (0" 000

TENSION TIE ABOVE BEAM								
TIE (1) MARK	Min. # of studs	© (2)	asd ³ Capacity	BUILT-UP STUD $^{\textcircled{0}}$ FACE NAILS or SCREWS				
MSTC28 [^] or v	(2)2x	(16)0.148"ø x 3¼"	1,439#	10d @ 4"oc				

tie ① Mark	MIN. NUMBER® OF STUDS	ANCHOR (Ø x EMBEDMENT) ⁽³⁾ and No. OF HAIRPIN DOWELS	FASTENERS FROM TIE TO STUD	ASD CAPACITY	BUILT-UP STUD FACE NAILS or SCREWS ④
HDU2	(2)2x	5∕8"ø x 10" − (2)#4 HAIRPIN	(6)¼"ø x 2½" SDS SCREWS	3,075#	10d @ 4" oc
HDU4	(3)2x	5%"ø x 10" − (2)#4 HAIRPIN	(10)¼"ø x 2½" SDS SCREWS	4,565#	(9)¼"øx4½" SDS
HDU5	(3)2x	5∕8"ø x 10" − (2)#4 HAIRPIN	(14)¼"ø x 2½" SDS SCREWS	5,645#	(10)¼"øx4½" SDS
HDU8	(4)2x	‰"ø x 10" − (4)#4 HAIRPIN	(20)¼"ø x 2½" SDS SCREWS	7,870#	(15)¼"øx6" SDS
HDU11	6x6	1"ø x 10" – (4)#4 HAIRPIN	(30)¼"ø x 2½" SDS SCREWS	11,175#	N/A
HDU14	6x6	1"ø x 10" – (6)#4 HAIRPIN	(36)¼"ø x 2½" SDS SCREWS	14,445#	N/A
-	1				1

	3	CONN	. OF BLKG. OR FR	AMING	8	9		
0	STUD/BLKG. AT	to	FOP PLATE; AND S	SOLE	ANC	HOR	ASD	
\checkmark	ABUTTING PANEL	PI	LATE TO SILL PLA	IE	BOLT	s to	CAPACITY,	
0.148" x 2¼"	EDGES & SILL	(4) $\frac{1}{4}$ $\frac{3}{2}$ $\frac{3}{2}$ (2) a 75 of 100 (2) (2) a 10 a 1				VC.	PLF	
PANEL NAILING	PLATE THICKNESS	SDS SCREWS	(5) ASS CLIPS	6 LIP4 PLATES	5%"ø	³∕₄"ø		
6"oc	2x	15" oc	25" oc	24" oc	48"oc	48" oc	310	
4" oc	Зx	10" oc	16"oc	16"oc	38"oc	48"oc	460	
3" ос	Зx	8" oc	13" oc	12" oc	29"oc	40" oc	600	
2" ос	3x	6" ос	10" oc	9" ос	19" oc	26" oc	770	
4" oc EA. SIDE	3x	5" ос	8" oc	8" oc	14" oc	20" oc	920	
3" oc EA. SIDE	3x	4" oc	6" ос	6" ос	14" oc	20" oc	1200	
2" oc EA. SIDE	3x	3" ос	5" ос	4" ос	11" ос	15" ос	1540	

RECOMMENDED CONSTRUCTION SEQUENCE

A DETAILED CONSTRUCTION SEQUENCE IS NEEDED TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE APPLIED AT THE APPROPRIATE TIMES. A RECOMMENDED CONSTRUCTION SEQUENCE IS PROVIDED BELOW:

1. HOLD AN ONSITE PRE-CONSTRUCTION MEETING.

2. POST SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR (MAY BE CONSOLIDATED WITH THE REQUIRED NOTICE OF CONSTRUCTION SIGN).

3. FLAG OR FENCE CLEARING LIMITS.

4. INSTALL CATCH BASIN PROTECTION, IF REQUIRED.

5. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).

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

7. CONSTRUCT SEDIMENT PONDS AND TRAPS.

8. GRADE AND STABILIZE CONSTRUCTION ROADS.

9. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.

10. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF MERCER ISLAND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

11. RELOCATE SURFACE SURFACE WATER CONTROLS OR TESC MEASURES, OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE TESC IS ALWAYS IN ACCORDANCE WITH CITY OF MERCER ISLAND TESC REQUIREMENTS.

12. COVER ALL AREAS THAT WILL BE UN-WORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPT 30) OR TWO DAYS DURING THE WET SEASON (OCT 1 TO APRIL 30) WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR EQUIVALENT.

13. STABILIZE ALL AREAS WITHIN SEVEN DAYS OF REACHING FINAL GRADE.

14. SEED, SOD, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.

15. UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE BMPS IF APPROPRIATE.

DENUDED AREAS REQUIREMENTS

APRIL 1 TO SEPT 30

ALL DENUDED AREAS MUST BE STABILIZED WITHIN 7 DAYS OF CONSTRUCTION. PLEASE READ ALL CITY TESC NOTES ON SHEET C1.2.

OCT 1 TO MARCH 31

ALL DENUDED AREAS MUST BE STABILIZED WITHIN 2 DAYS OF GRADING. IF AN EROSION PROBLEM ALREADY EXISTS ON THE SITE, OTHER COVER PROTECTION AND EROSION CONTROL WILL BE REQUIRED.

EROSION CONTROL NOTES

D.8.2 STANDARD ESC PLAN NOTES

THE STANDARD ESC PLAN NOTES MUST BE INCLUDED ON ALL ESC PLANS. AT APPLICANT'S DISCRETION, NOTES THAT IN NO WAY APPLY TO THE PROJECT N OMITTED; HOWEVER, THE REMAINING NOTES MUST NOT BE RENUMBERED. F EXAMPLE, IF ESC NOTE #3 WERE OMITTED, THE REMAINING NOTES SHOULD E NUMBERED 1, 2, 4, 5, 6, ETC.

1. APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN D CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.C AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FAC UTILITIES, ETC.).

2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLI SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.

3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL E CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION (SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLE LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE OF CONSTRUCTION.

4. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEC CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADD MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJEC

5. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT TH TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND PROPERTIES IS MINIMIZED.

6. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMEN ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESI FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVEN MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL C MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FE PERIMETER PROTECTION ETC.) AS DIRECTED BY CITY OF MERCER ISLAND.

7. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONIN WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACIL

8. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, TH NOT BE DISTURBED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, E

9. ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE AT SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.

10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINT. MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING SEASON, OR WITHIN TWENTY FOUR (24) HOURS FOLLOWING A STORM EVENT

11. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.

12. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORAR SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTR MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FAC FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACIL BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE I ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.

13. COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D SURFACE WATER DESIGN MANUAL

14. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARA THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK BEGINNING OF THE WET SEASON.

	OX	
DATE: Mar 07, 2024		
JOB# 2094	Nar + R BIT	
DRAFTED: SS DESIGN: DE		
DIGITAL SIGNATURE		701 N 26th
	ABGISTERED G	206.930.0
	ONAL	

BE NOT ZE IES,	2. 3.	A REVISION. APPLICANT IS RESPONSIBLE FOR ANY DAMAGES TO UNDERGROUND UTILITIES CAUSED FROM THIS CONSTRUCTION.		
NOT ZE ES,	3.	CAUSED FROM THIS CONSTRUCTION.		
NOT ZE ES,	3.	CATCH BASIN FILTERS SHOLL DIRE PROVIDED FOR ALL STORM DRAIN CATCH		
		BASINS/INLETS DOWNSLOPE AND WITHIN 500 FEET OF THE CONSTRUCTION AREA. CATCH BASIN FILTERS SHOULD BE DESIGNED BY THE MANUFACTURER FOR USE AT CONSTRUCTION SITES AND APPROVED BY THE CITY INSPECTOR. CATCH BASIN FILTERS SHOULD BE INSPECTED FREQUENTLY, ESPECIALLY AFTER STORM EVENTS. IF THE FILTER BECOMES CLOGGED, IT SHOULD BE CLEANED OR REPLACED.		
7/ESC	4.	CONTRACTORS SHALL VERIFY LOCATIONS AND DEPTHS OF UTILITES.		
	5. 1.800	AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, CALL "ONE CALL" AT).424.5555		
	6.	DO NOT BACKFILL WITH NATIVE MATERIAL ON PUBLIC RIGHT-OF-WAY. ALL MATERIAL MUST BE IMPORTED		
	7.	EROSION CONTROL: ALL "LAND DISTURBING ACTIVITY" IS SUBJECT TO PROVISIONS OF MERCER ISLAND ORDINANCE 95C-118 "STORM WATER MANAGEMENT." SPECIFIC ITEMS TO BE FOLLOWED AT YOUR SITE:		
NAL AY BE IT TO OR IN	8.	PROTECT ADJACENT PROPERTIES FROM ANY INCREASED RUNOFF OR SEDIMENTATION DUE TO THE CONSTRUCTION PROJECT THROUGH THE USE OF APPROPRIATE "BEST MANAGEMENT PRACTICES" (BMP) EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO, SEDIMENT TRAPS, SEDIMENT PONDS, FILTER FABRIC FENCES, VEGETATIVE BUFFER STRIPS OR BIOENGINEERED SWALES.		
ACENT	9.	CONSTRUCTION ACCESS TO THE SITE SHOULD BE LIMITED TO ONE ROUTE. STABILIZE ENTRANCE WITH QUARRY SPALLS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING THE STORM DRAINS.		
FOR C AND ER	10.	PREVENT SEDIMENT, CONSTRUCTION DEBRIS, PAINTS, SOLVENTS, ETC., OR OTHER TYPES OF POLLUTION FROM ENTERING PUBLIC STORM DRAINS. KEEP ALL POLLUTION ON YOUR SITE.		
ES,	11.	ALL EXPOSED SOILS SHALL REMAIN DENUDED FOR NO LONGER THAN SEVEN (7) DAYS AND SHALL BE STABILIZED WITH MULCH, HAY, OR THE APPROPRIATE GROUND COVER. ALL EXPOSED SOILS SHALL BE COVERED IMMEDIATELY DURING ANY RAIN EVENT.		
S. VILL I THE	12.	INSTALLATION OF CONCRETE DRIVEWAYS, TREES, SHRUBS, IRRIGATION, BOULDERS, BERMS, WALLS, GATES, AND OTHER IMPROVEMENTS ARE NOT ALLOWED IN THE PUBLIC RIGHT-OF-WAY WITHOUT PRIOR APPROVAL, AND AN ENCROACHMENT AGREEMENT AND RIGHT OF WAY PERMIT FROM THE SENIOR DEVELOPMENT ENGINEER.		
ITION ED A E WET	13. OWNER SHALL CONTROL DISCHARGE OF SURFACE DRAINAGE RUNOFF FROM EXISTING AND NEW IMPERVIOUS AREAS IN A RESPONSIBLE MANNER. CONSTRUCTION OF NEW GUTTERS AND DOWNSPOUTS, DRY WELLS, LEVEL SPREADERS OR DOWNSTREAM CONVEYANCE PIPE MAY BE NECESSARY TO MINIMIZE DRAINAGE IMPACT TO YOUR NEIGHBORS. CONSTRUCTION OF MINIMUM DRAINAGE IMPROVEMENTS SHOWN OR CALLED OUT ON THIS PLAN DOES NOT IMPLY RELIEF FROM CIVIL LIABILITY FOR YOUR DOWNSTREAM DRAINAGE.			
ES USH	14.	POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC MAINS.		
Í IS TO	15.	REMEMBER: EROSION CONTROL IS YOUR FIRST INSPECTION.		
IUST	16. INSP	ROOF DRAINS MUST BE CONNECTED TO THE STORM DRAIN SYSTEM AND ECTED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY BACKFILLING OF PIPE.		
ΉE	17.	SILENT FENCE: CLEAN AND PROVIDE REGULAR MAINTENANCE OF THE SILT FENCE. THE FENCE IS TO REMAIN VERTICAL AND IS TO FUNCTION PROPERLY THROUGHOUT THE TERM OF THE PROJECT.		
AS I FOR	18.	WORK IN PUBLIC RIGHT OF WAY REQUIRES A RIGHT-OF-WAY USE PERMIT.		
THE	19.	REFER TO WATER SERVICE PERMIT FOR ACTUAL LOCATION OF NEW WATER METER AND SERVICE LINE DETERMINED BY MERCER ISLAND WATER DEPARTMENT.		
	16.	THE TV INSPECTION OF THE EXISTING SIDE SEWER TO THE CITY SEWER MAIN IS REQUIRED. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE CITY OF MERCER ISLAND INSPECTOR, THE REPLACEMENT OF THE EXISTING SIDE SEWER IS REQUIRED. ALTERNATELY, A PRESSURE TEST OF THE SIDE SEWER, FROM SEWER MAIN TO POINT OF CONNECTION, MAY BE SUBSTITUTED FOR THE VIDEO INSPECTION.		
	20.	NEWLY INSTALLED SIDE SEWER REQUIRES A 4 P.S.I. AIR TEST OR PROVIDE 10' OF HYDROSTATIC HEAD TEST.		
	21.	POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC MAINS.		
	22.	THE LIMITS AND EXTENDS OF THE PAVEMENT IN THE PUBLIC RIGHT OF WAY SHALL BE DETERMINED BY THE CITY ENGINEER PRIOR TO FINALIZE THE PROJECT.		

WU/CHANG RESIDENCE 2956 72nd AVENUE SE, MERCER ISLAND, WA 98040 APN 531510-0744

(1) -	-COMPOST AMENDED SOIL TO ALL DISTURBED AREAS (SEE DETAIL
\bigcirc -6" SDR 35 PVC SANITARY SEWER(SS) @ MIN 1.0 %	SHEET C3.5). TILL 2-3" OF COMPOST INTO UPPER 8" OF SOIL. LOOSEI COMPACTED SUBSOIL. IF NEEDED BY RIPPING TO 12" DEPTH. MULCH
	LANDSCAPE BEDS AFTER PLANTING.
34 -	(51) -
7 -LOCATE AND VIDEO CONDITION OF EXISTING SANITARY SIDE	52) -
SEWER. REPLACE LINE IF FOUND DEFECTIVE AS DETERMINED BY CITY INSPECTOR.	
WATER IMPROVEMENTS	(54) -
1.5" 250 PSI PRIVATE HDPE WATER (ASTM D2239) FROM METER TO HOUSE. RECOMMENDED DEPTH=36". COORDINATE HOUSE ENTRY WITH BUILDER/OWNER.	56 -
12) -	57 -PERMEABLE PAVER SURFACE (PATIO) PER DOE DETAIL. MIN. 4" DEEP RESERVOIR COURSE. SEE DETAIL ON C3.5.
12) -	58 -
STORM DRAIN	STREET IMPROVEMENTS
-4" STORM DRAIN (3034 PVC) @ MIN 2 % GRADE	71 -PAVEMENT RESTORATION - COORDINATE SCOPE OF PAVEMENT
 -4" FOUNDATION DRAIN (3034 PVC) @ MIN 1 % GRADE -6" STORM DRAIN (3034 PVC) @ MIN 2 % GRADE -6" STORM DRAIN (3034 PVC) @ MIN 2 % GRADE 	 RESTORATION WITH CITY INSPECTOR
A -	
69 -	REQUIRED
28 -	
e9 29 -	
 31 - 32 -TYPE 1 CB WITH SOLID LID 	
33 -	
34 -	Top EX
35 -MIN 18" ID YARD DRAIN (OR EQUAL) WITH SOLID LID	20 July
-6" WIDE NDS DURASLOPE CHANNEL DRAIN OR EQUAL. CLASS B VEHICLE RATED GRATE. DRAIN TO PUMP BASIN.	OC ATT
36A -	v Z
39 -	
O -TYPE 40 CATCH BASIN.	244
(41) -	√p / (22)6" SD
- (43) -	
\sim	→ → → → → → → → → → → → → → → → → → →
	EX WS/WM EX 3/4/ WS/
46 - TYPE 1 CB (30) RIM=309.7± EX 12' IE=306.1± EX 12' IE=306.1± EX 12' IE=306.1±	
 46 - TYPE 1 CB (30) RIM=309.7± EX 12' IE=306.1± NEW 6" IE=306.6± 47 - 	
46 - TYPE 1 CB (30) RIM=309.7± EX 12' IE=306.1± NEW 6" IE=306.6±	
 46 - TYPE 1 CB (30) RIM=309.7± EX 12' IE=306.1± NEW 6" IE=306.6± 47 - 48 -¹/₃ HP SUMP PUMP & MIN 18" DIA BASIN. SPECIFICATIONS PENDING 	
 46 - TYPE 1 CB (30) RIM=309.7± EX 12' IE=306.1± NEW 6" IE=306.6± 47 - 48 -¹/₃ HP SUMP PUMP & MIN 18" DIA BASIN. SPECIFICATIONS PENDING 	Jd Avenue S S S S S S S S S S S S S S S S S S S
 46 - TYPE 1 CB (3) RIM=309.7± EX 12' IE=306.1± NEW 6" IE=306.6± 47 - 43 -¹₃ HP SUMP PUMP & MIN 18" DIA BASIN. SPECIFICATIONS PENDING 	Zud Avenue S Sint Avenue S Sud
 46 - TYPE 1 CB (30) RIM=309.7± EX 12' IE=306.1± NEW 6" IE=306.6± 47 - 48 -1 HP SUMP PUMP & MIN 18" DIA BASIN. SPECIFICATIONS PENDING 	Zsud Avenue SE
 46 - TYPE 1 CB (30) RIM=309.7± EX 12' IE=306.1± NEW 6" IE=306.6± 47 - 48 -1 HP SUMP PUMP & MIN 18" DIA BASIN. SPECIFICATIONS PENDING 	ZSud Avenue SE
 TYPE 1 CB (3) RIM=309.7± EX 12' IE=306.6± File 306.6± Fi	ZSud Avenue SE
Image: Constraint of the system of the sy	
Image: Constraint of the second se	APPLICANT LEI WU AND INGRID CHANG 2956 72nd AVENUE SE MERCER ISLAND, WA 98040

NO.	DATE	BY	REVISIONS	APPLICANT LEI WU AND INGRID CHANG 2956 72nd AVENUE SE MERCER ISLAND, WA 98040

PERMEABLE PAVER SECTION (DOE)

	ok	
DATE: Mar 07, 2024		
JOB# 2094	Nar of FRUIT	
DRAFTED: SS DESIGN: SS		CIVIL EINGINEER
DIGITAL SIGNATURE		3010110N3
	ABG ISTERED C	701 N 36th STREET, SUITE 450 SEATTLE 206.930.0342 DUFFY@CESO
	ONAL	

MINIMUM 10% ORGANIC -COMPOST SOIL REQUIRED

SOIL AMENDMENT REQUIRED

COMPOST AMENDED SOIL REQUIRED ON ALL LANDSCAPED AREAS AFTER CONSTRUCTION. SEE DETAIL BELOW.

SOIL INSPECTION REQUIRED BY ENGINEER A POST CONSTRUCTION INSPECTION & CERTIFICATION OF AMENDED SOILS IS REQUIRED BY A LICENSED CIVIL ENGINEER. THIS IS REQUIRED BEFORE FINAL SIGN-OFF BY CITY.

COMPOST AMENDED SOIL SPEC

STORM, BMP DETAILS

DRAWING NO:

WU/CHANG RESIDENCE 2956 72nd AVENUE SE, MERCER ISLAND, WA 98040

APN 531510-0744

