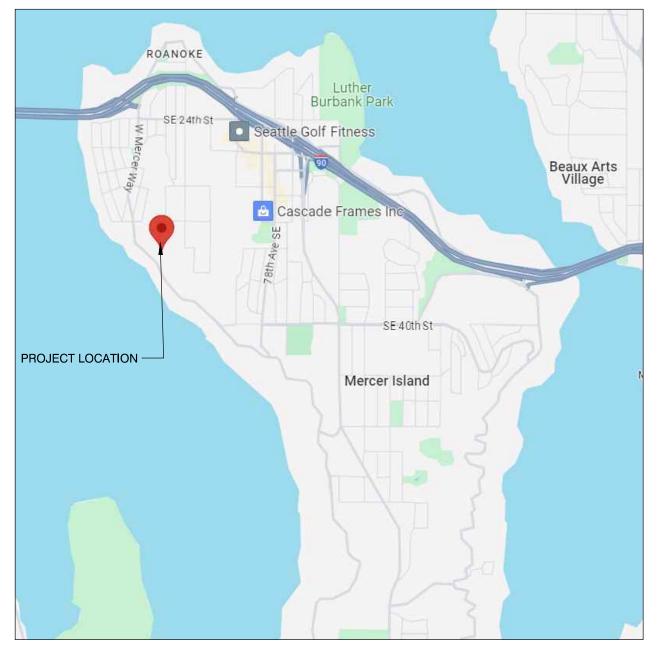
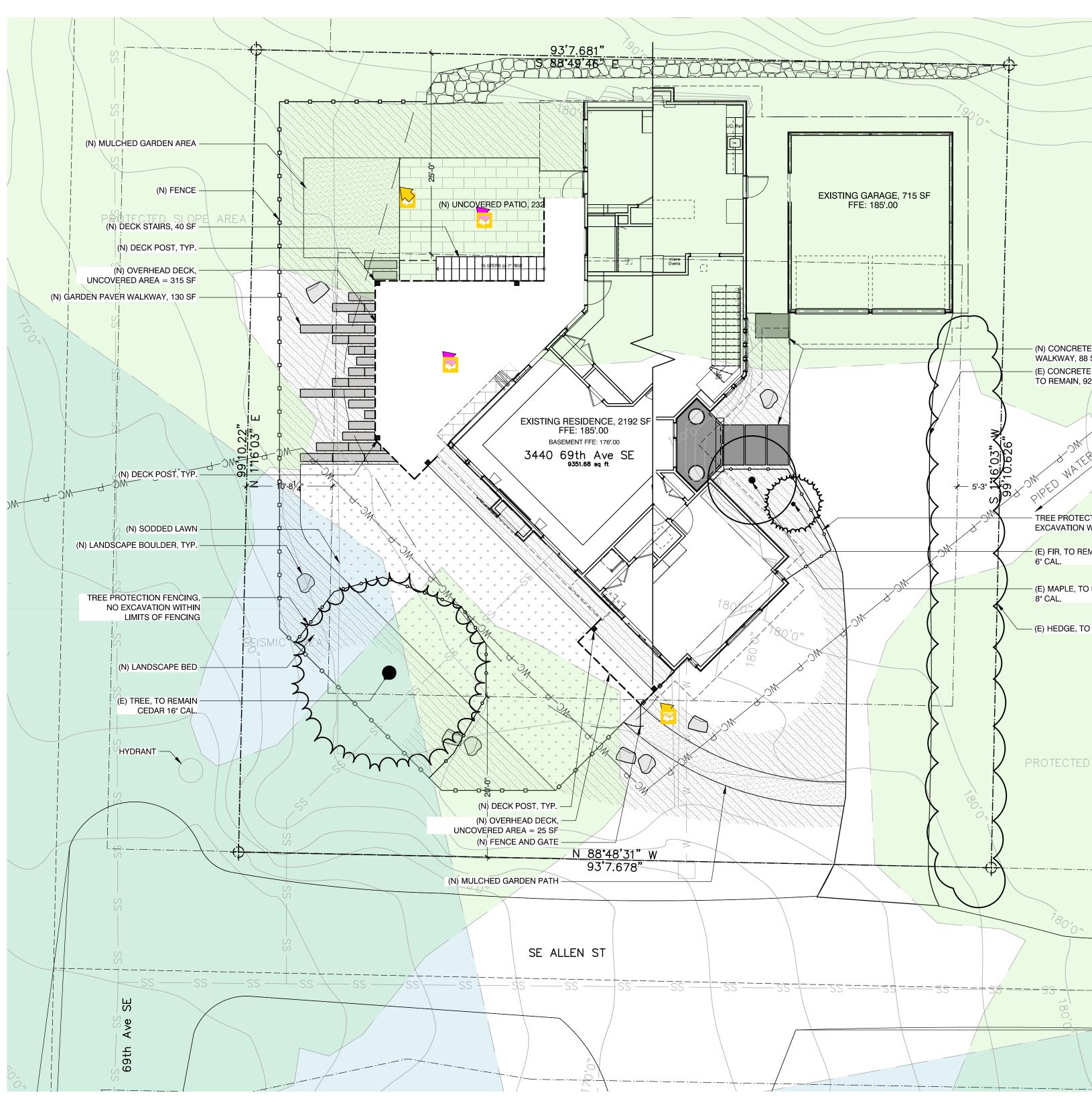
VICINITY MAP

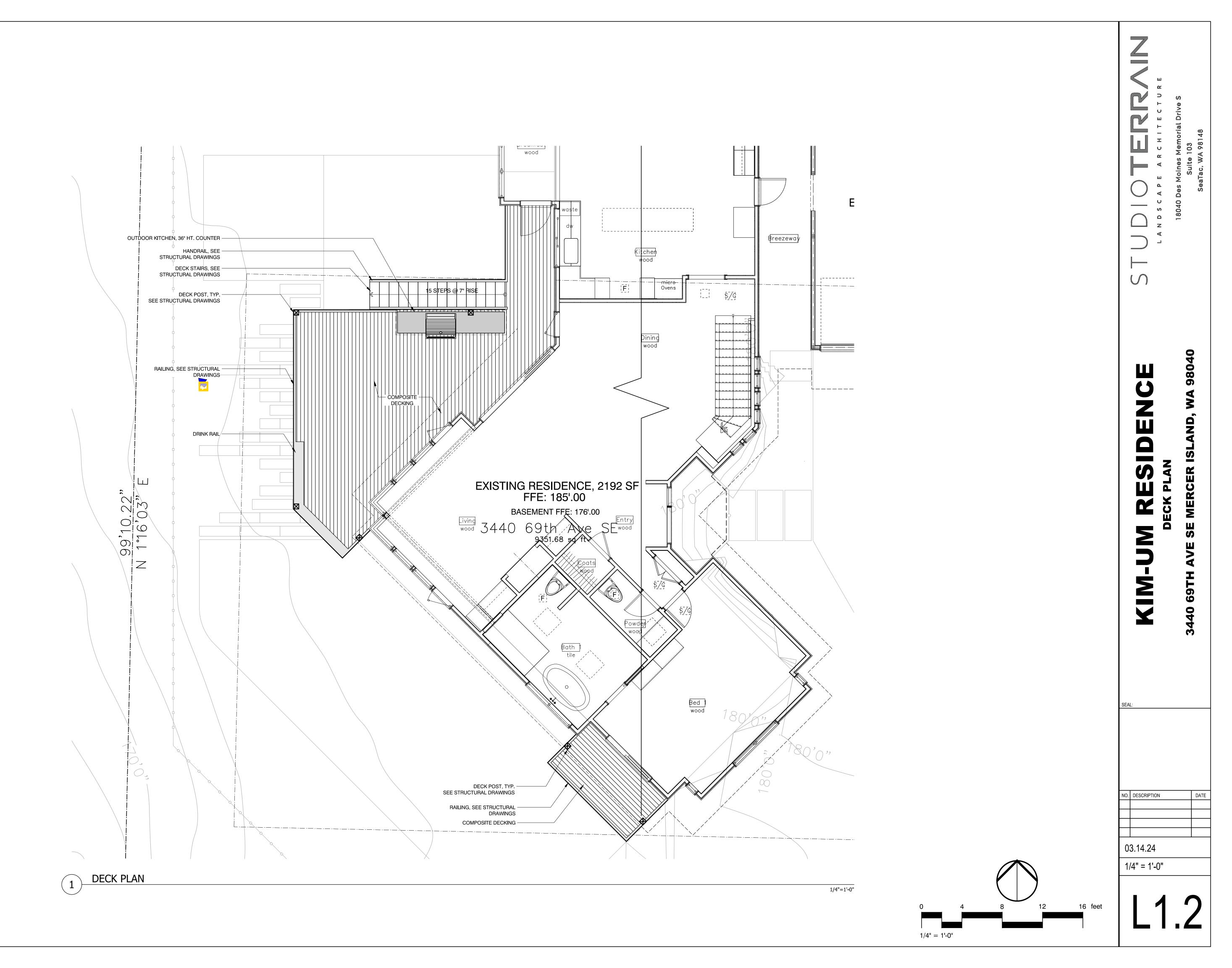








	WASHINGTON STATE ENI	SITE AREA 9352 SF PARCEL NUMBER 935090-0120 JURISDICTION MERCER ISLAND ZONING R-8.4 OCCUPANCY CLASS SINGLE FAMILY TOF 22 ALL 23-24-25 & POR OF 26 LY E 38 E TO N LN OF SD LOT ARDS		STUDIOTERANN LANDSCAPEARCHITECTURE 18040 Des Memorial Drive S suite 103 Seatac, WA 98148
TE SLAB BB SF TE DIVEWAY, 924 SF ECTION FENCING, NO NUTHIN LIMITS OF FENCING REMAIN TO REMAIN TO REMAIN	I.5. TOTAL NEW LOT COV J. TOTAL PROJECT LOT COV K. PROPOSED LOT COVERA HARDSCAPE CALCULAT A. GROSS LOT AREA: B. NET LOT AREA: C. AREA BORROWED FROM D. ALLOWED HARDSCAPE A E. ALLOWED HARDSCAPE A E. ALLOWED HARDSCAPE A F. TOTAL EXISTING HARDSC F.1. UNCOVERED DECKS F.2. UNCOVERED DECKS F.3. WALKWAYS: F.4. STAIRS: F.5. ROCKERIES & RETAIL F.6. OTHER F.7. TOTAL EXISTING HAR G. TOTAL HARDSCAPE REM H. TOTAL NEW HARDSCAPE H.1. UNCOVERED DECKS H.2. UNCOVERED DECKS H.2. UNCOVERED ATIOS H.3. WALKWAYS: H.4. STAIRS: H.5. ROCKERIES & RETAIL H.6. OTHER H.7. TOTAL NEW HARDSCAPE H.1. UNCOVERED DECKS H.2. UNCOVERED PATIOS H.3. WALKWAYS: H.4. STAIRS: H.5. ROCKERIES & RETAIL H.6. OTHER: H.7. TOTAL NEW HARDSCAPE H.1. TOTAL NEW HARDSCAPE H.1. TOTAL NEW HARDSCAPE H.1. TOTAL NEW HARDSCAPE H.3. WALKWAYS: H.4. STAIRS: H.5. ROCKERIES & RETAIL H.6. OTHER: H.7. TOTAL NEW HARDSCAPE H.7. TOTAL NEW HARDSCAPE J. TOTAL PROJECT HARDSCAPE J. TOTAL PROJECT HARDSCAPE J. TOTAL PROJECT HARDSCAPE J. TOTAL LANDSCAPED ARE D. TOTAL LANDSCAPED ARE D. TOTAL LANDSCAPED ARE	E AREA: E: AREA: DOF AREA: NG ROOF AREA: ND COVERED DECKS: COVERAGE: EMOVED: FOR SINGLE STORY: FOR FLAG LOT: GE AREA: DOF AREA: TURE ROOF AREA: ND COVERED DECKS: /ERAGE AREA: /ERAGE A	195.0 FT. 165.0 FT. 30.0 FT. 137.0 FT 22% 9,352 SF 9,352 SF 9,352 SF 3,273 SF 35% 2,192 SF 715 SF 924 SF 393 SF 4,224 SF 0 SF 4,224 SF 45% OF LOT 9,352 SF 9,352 SF 9,352 SF 9,352 SF 9,352 SF 0 SF	KIM-UN RESIDENCE SITE PLAN 3440 69TH AVE SE MERCER ISLAND, WA 98040
55 55	E. TOTAL TREES TO BE REM F. TOTAL TREES TO BE PLAN $0 \qquad 8$ $1/8" = 1'-0"$	NTED: SHEET INDEX L1.1 SITE PLAN L1.2 DECK PLAN S1.0 GENERAL STRU	0 EA 0 EA UCTURAL NOTES UNDATION PLAN DETAILS 32 feet	SEAL: NO. DESCRIPTION DATE 0 0 0



	-CRITERIA		18.	CONTRACTOR SHALL VERIFY AL
1. 2.	ALL MATERIALS WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE D BUILDING CODE (IBC) INCLUDING WASHINGTON STATE MODIFICATIONS. DESIGN LOADING CRITERIA	RAWINGS, SPECIFICATIONS, AND THE 2018 INTERNATIONAL		EXISTING CONSTRUCTION SHON ALL CONFLICTS AND DISCREPA
	FLOOR LIVE LOAD (RESIDENTIAL BALCONIES AND DECKS) 60 PSF	ND SNOW LOAD, Pg = 25 PSF OR 200 LBS.	19.	<u>CONCRETE</u> SHALL BE MIXED, PF 28-DAY STRENGTH (fc) OF 3500 WATER/CEMENT RATIO OF 0.45, CONCRETE STRENGTH (fc) OF 2 MATERIAL TESTING.
	SITE CI SEISMI RISK C R = 1.5 OVER S DEFLE REDUN SEISMI	130 ∂1 592 TANCE FACTOR, I₀= 1.0		ALL CONCRETE WITH SURFACES C260, C494M, AND C618. UNLES ASTM C172 AND AIR CONTENT M <u>REINFORCING STEEL</u> SHALL CO SO NOTED ON THE DRAWINGS S WELDED WIRE FABRIC SHALL CO <u>DETAILING OF REINFORCING ST</u> REINFORCEMENTS AS FOLLOWS BAR SIZE MINIMUM #3 24-INCHES
SEE F	PLANS FOR ADDITIONAL LOADING CRITERIA			#4 31-INCHES #5 39-INCHES
3.	STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWIN VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ARCHITECT DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED FOR REFERENCE O DIMENSIONS.	OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. ALL		PROVIDE CORNER BARS AT ALL ENDS. NO BARS PARTIALLY EMBEDDED
4.	CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS EXISTING CONSTRUCTION SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED AS GL		22.	STRUCTURAL ENGINEER. FIELD
5.	<u>CONTRACTOR</u> SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTU BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.	JRAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE		FOOTINGS AND OTHER UNFORM
6.	<u>CONTRACTOR</u> SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHOD PERFORM THE WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUT	HORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE	23.	SLABS-ON-GRADE: UNLESS NOT UNLESS OTHERWISE DIRECTED
	SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FRO STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REF CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.		24.	CAST-IN-PLACE CONCRETE: SE CONCRETE WALLS. SEE MECHA
7.	<u>CONTRACTOR-INITIATED</u> CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT A FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NO			SEE ARCHITECTURAL DRAWING EXPOSED CONCRETE SURFACE AND ACI 117.1R-14.
8.	DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDI CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SI THE STRUCTURAL ENGINEER.		25.	POST-INSTALLED ANCHORS SH
9.	ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD MANUFACTURING, DELIVERY, HANDLING, STORAGE, AND ERECTION IN ACCORDANCE WITH			APPROVAL FROM THE ENGINEE ANCHORS. CARE SHALL BE TAK DRILLED AND CLEANED IN ACCO
10.	SUBMITTAL REVIEW PERIOD: SUBMITTALS SHALL BE MADE IN TIME TO ALLOW MINIMUM OF PRIOR TO FABRICATION.	TWO WEEKS FOR REVIEW BY THE ARCHITECT/ENGINEER		PRODUCTS OTHER THAN THOSE CALCULATIONS THAT ARE PREP DEMONSTRATE THAT THE SUBS
11.	GENERAL CONTRACTOR'S PRIOR REVIEW OF SUBMITTALS: PRIOR TO SUBMISSION TO THE SUBMITTAL FOR COMPLETENESS. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY T GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DIMEN SHALL PROVIDE THE GENERAL CONTRACTOR'S REVIEW STAMP AND SIGNATURE PRIOR TO	THE ENGINEER AND THEREFORE MUST BE VERIFIED BY THE NSIONAL INFORMATION REQUESTED BY THE DETAILER AND		 PRODUCT USING THE APPROPR SHALL HAVE CURRENT ICC-ES A A. CONCRETE ANCHORS 1. MECHANICAL ANCHORS F
12.	SHOP DRAWINGS FOR: A. STRUCTURAL STEEL			WITH ACI 355.2 AND ICC-E a. SIMPSON STRC b. SIMPSON STRC
	SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER CONTRACTOR SHALL ALSO SUBMIT SHOP DRAWINGS TO THE BUILDING DEPARTMENT AS F ROOF TRUSSES SHALL ALSO BE SUBMITTED TO THE MECHANICAL ENGINEER FOR COORDI	REQUIRED. SHOP DRAWINGS FOR CONNECTOR PLATE WOOD		c. HILTI "KWIK BOI 2. ADHESIVE ANCHORS FOF WITH ICC-ES AC308. PRE
	CONTRACTOR SHALL SUBMIT WALL ELEVATION DRAWINGS OF AT LEAST 1/8" = 1'-0" SCALE FOR REVIEW PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH REINFO			a. SIMPSON STRC b. SIMPSON STRC c. SIMPSON STRC
13.	<u>SHOP DRAWING REVIEW</u> : DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGI CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW B DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, PRECAUTIONS AND PROGRAMS INCIDENTAL, THERETO.	Y ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW		d. HILTI "HIT-RE 50 e. HILTI "HIT-HY 20
	SHOP DRAWINGS SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERST IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRIC DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRA AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRA FOLLOWED.	ANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL ATION AND INSTALLATION METHODS. IF DEVIATIONS, ACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR	26.	 STRUCTURAL STEEL DESIGN, FA FOLLOWS: AISC 360-16 SPECIFICATIO AISC 303-16 CODE OF STA PARAGRAPH 4.2.1: "THIS DETAIL CONFIGURATION
	DEFERRED SUBMITTALS FOR BUILDING COMPONENTS INCLUDING, BUT NOT IMITATED TO, S TRUSSES, AND EXTERIOR CLADDING SHALL INCLUDE THE ENGINEER'S STAMP FOR THE ST COMPONENT DESIGNER PRIOR TO CURSORY REVIEW BY THE ENGINEER OF RECORD FOR COMPONENT DESIGNER IS RESPONSIBLE FOR CODE CONFORMANCE AND ALL NECESSARY ARCHITECTURAL OR STRUCTURAL DRAWINGS. DEFERRED SUBMITTALS SHALL INDICATE M STRUCTURE. DESIGN CALCULATIONS SHALL BE INCLUDED IN THE SUBMITTAL.	ATE OF WASHINGTON AND SHALL BE APPROVED BY THE LOADS IMPOSED ON THE BASIC STRUCTURE. THE Y CONNECTIONS NOT SPECIFICALLY CALLED OUT ON	27.	 AISC 341-16 SEISMIC F SPECIFICATION FOR STRI AMERICAN WELDING SOC STRUCTURAL STEEL SHALL COM
14.	STATEMENT SPECIAL INSPECTIONS: THE FOLLOWING CONSTRUCTION TYPES ARE TO BE REVIEWED BY A SPECIAL INSPECTOR INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SP SECTION 1704 OF THE 2018 INTERNATIONAL BUILDING CODE. SPECIAL INSPECTION AGENC INSPECTIONS AND TESTS. THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPA INSPECTION REPORTS AND TEST RESULTS.	D THE SATISFACTION OF THE BUILDING OFFICIAL, FOR PECIAL INSPECTION. SPECIAL INSPECTION SHALL CONFORM TO BY SHALL BE RESPONSIBLE FOR KEEPING RECORDS OF SPECIAL	<u>TYPE</u> A. B. C. D. E.	E OF MEMBER PLATES, ANGLES, AND RODS STRUCTURAL TUBING (SQUARE ANCHOR BOLTS (EMBEDDED IN CONNECTION BOLTS (3/4" ROU THREADED RODS FOR EPOXY (
	STEEL CONSTRUCTION AND WELDING: SHALL BE SPECIAL INSPECTED AS REQUIRED IN THE AISC 341-16, AWS D1.1, AND AWS D1.8.		28.	ARCHITECTURALLY EXPOSED S VIEW UPON COMPLETION OF TH FABRICATION AND ERECTION R
	POST INSTALLED ANCHORS: PERIODIC SPECIAL INSPECTION IN ACCORDANCE WITH THE P	RODUCTS APPROVED ICC-ES REPORT.	29.	ALL WELDING SHALL BE IN CONI ELECTRODES UNLESS OTHERW
15.	<u>GEOTECHNICAL</u> FOUNDATION NOTES: ALLOWABLE SOIL PRESSURE AND LATERAL EARTH PRESSURE ARE A QUALIFIED SOILS ENGINEER. IF SOILS ARE FOUND TO BE OTHER THAN ASSUMED, NOTIFY REDESIGN.		30.	FRAMING LUMBER SHALL BE KIL COAST LUMBER NO. 17, LATEST
	FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH AT LEAST 18" BELOW ADJACENT FI BE CENTERED BELOW COLUMNS OR WALLS ABOVE.	INISHED GRADE, UNLESS OTHERWISE NOTED, FOOTINGS SHALL		JOISTS: (2X, 3X, AND 4X MEMBERS)
	BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING, GRANULAR FILL AND PROV	IDE FOR SUBSURFACE DRAINAGE. \		BEAM AND STRINGERS: (6 X AND LARGER MEMBERS
		PSF F/35 PCF _TIMATE LOAD)		` <u>POSTS AND TIMBERS</u> : (6 X AND LARGER MEMBERS
				STUDS PLATES & MISCELLA
	RENOVATION			2X AND 3X TONGUE AND GF
16.	DEMOLITION: CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENC SUPPORT EXISTING CONSTRUCTION AS REQUIRED, AND IN A MANNER SUITABLE TO THE W WHERE AND AS NOTED ON THE PLANS. SAW CUTTING, IF AND WHERE USED, SHALL NOT C DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR OVERLOAD THE EXISTING STRUCTURE. I DEBRIS) ON EXISTING FLOOR SYSTEMS TO 40 PSF.	ORK SEQUENCES. EXISTING REINFORCING SHALL BE SAVED OUT EXISTING REINFORCING THAT IS TO BE SAVED. DEMOLITION	31.	<u>GLUED LAMINATED MEMBERS</u> S AITC IDENTIFICATION MARK AND CONFORM TO APA PERFORMAN 24F-V4, F_b = 2,400 PSI, F_V = 265 PS
	 ALL NEW OPENINGS THROUGH EXISTING WALLS, SLABS AND BEAMS SHALL BE ACCO OVERCUTTING AT CORNERS SHALL NOT BE PERMITTED. b. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND LOCATION OF MEMB 			= 1,800,000 PSI. GLUED LAMINATED COLUMNS S
	 c. SMALL ROUND OPENINGS SHALL BE ACCOMPLISHED BY CORE DRILLING, IF POSSI d. WHERE NEW REINFORCING TERMINATES AT EXISTING CONCRETE, THREADED BARS SHALL BE PROVIDED TO MATCH HORIZONTAL REINFORCING, UNLESS OTHERWISE N 	BLE. S INTO THREADED EXPANSION INSERTS IN EXISTING CONCRETE		TWO LAMINATIONS THREE LAMINATIONS FOUR OR MORE LAMINATIONS

GENERAL STRUCTURAL NOTES

(The following apply unless shown otherwise on the plans)

ITRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF TING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. THE CONTRACTOR SHALL BRING CONFLICTS AND DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER.

CONCRETE

NCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED, AND PLACED IN ACCORDANCE WITH ACI 318-14 AND ACI 301-16. CONCRETE SHALL ATTAIN A AY STRENGTH (fc) OF 3500 PSI BASED ON EXPOSURE CLASS F1, SHALL CONTAIN NO LESS THAN 5-1/2 SACKS OF CEMENT, HAVE A MAXIMUM TER/CEMENT RATIO OF 0.45, MAXIMUM AGGREGATE OF ¾-INCH, AND A SLUMP OF 5 INCHES OR LESS. CONCRETE HAS BEEN DESIGNED BASED ON A NCRETE STRENGTH (fc) OF 2500 PSI PER INTERNATIONAL BUILDING CODE SECTION 1705.3 EXCEPTION 2.3 TO AVOID SPECIAL INSPECTIONS AND TERIAL TESTING.

CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM 0, C494M, AND C618. UNLESS OTHERWISE NOTED THE TOTAL AIR CONTENT SHALL BE 5%. AIR CONTENT SHALL BE SAMPLED IN ACCORDANCE WITH M C172 AND AIR CONTENT MEASURED IN ACCORDANCE WITH ASTM C231 OR C173.

NFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENTS S1), GRADE 60, Fy = 60,000 PSI. EXCEPTIONS: ANY BARS SPECIFICALLY NOTED ON THE DRAWINGS SHALL BE GRADE 40, Fy = 40,000 PSI.

LDED WIRE FABRIC SHALL CONFORM TO ASTM A-185

AILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI SP-66-04 AND ACI 318-14 CHAPTER 25. LAP ALL NFORCEMENTS AS FOLLOWS:

BAR SIZE	MINIMUM LAP LENGTH	MINIMUM HOOK EMBEDMENT
#3	24-INCHES	6-INCHES
#4	31-INCHES	8-INCHES
# 5	39-INCHES	11-INCHES

OVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND

BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE RUCTURAL ENGINEER. FIELD BENDING OF GRADE 60 REINFORCEMENT SHALL NOT BE ALLOWED.

NCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS

DTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH OTHER CASES 1-1/2J

BS-ON-GRADE: UNLESS NOTED OTHERWISE SHALL BE 4" CONCRETE, REINFORCED WITH 6X6 W1.4XW1.4 WELDED WIRE FABRIC CENTERED IN SLAB. ESS OTHERWISE DIRECTED BY SOILS REPORT PROVIDE MINIMUM 10 MIL VAPOR BARRIER OVER 4" OF COMPACTED SAND OR GRAVEL.

T-IN-PLACE CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL ICRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MISCELLANEOUS MECHANICAL OPENINGS THROUGH CONCRETE WALLS. E ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL POSED CONCRETE SURFACES. TOLERANCES FOR ALL STRUCTURAL CONCRETE AND REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI 117-10 DACI 117.1R-14.

POST INSTALLED ANCHORS

T-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN ROVAL FROM THE ENGINEER—OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE CHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCEMENT. HOLES SHALL BE LLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND ICC-ES REPORT. SUBSTITUTION REQUESTS, FOR DDUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CULATIONS THAT ARE PREPARED & SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON. THE CALCULATIONS SHALL MONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED ODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE INTERNATIONAL BUILDING CODE. SUBSTITUTIONS ALL HAVE CURRENT ICC-ES APPROVAL.

- MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. PRE-APPROVED MECHANICAL ANCHORS INCLUDE: a. SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)
 - b. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713)
 - c. HILTI "KWIK BOLT TZ" (ICC-ES ESR-1917)

ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:

- a. SIMPSON STRONG-TIE "ET-3G" (ICC-ES ESR-5334) b. SIMPSON STRONG-TIE "SET-3G" (ICC-ES ESR-4057)
- c. SIMPSON STRONG-TIE "AT-3G" (ICC-ES ESR-4057)
- d. HILTI "HIT-RE 500-V3" (ICC-ES ESR-3814) e. HILTI "HIT-HY 200" (ICC-ES ESR-3187)

STEEL

RUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON THE LATEST EDITIONS OF THE A.I.S.C. SPECIFICATIONS AND CODES AS

AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.

AISC 303-16 CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, AMENDED BY THE DELETION OF THE FOLLOWING SENTENCE IN PARAGRAPH 4.2.1: "THIS APPROVAL CONSTITUTES THE OWNER'S ACCEPTANCE OF ALL RESPONSIBILITY FOR THE DESIGN ADEQUACY OF ANY DETAIL CONFIGURATION OF CONNECTIONS DEVELOPED BY THE FABRICATOR AS PART OF HIS PREPARATION OF THESE SHOP DRAWINGS." AISC 341-16 SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.

AMERICAN WELDING SOCIETY (AWS) STRUCTURAL WELDING CODE D1.1 AND D1.4

RUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS

DF MEMBER	ASTM SPECIFICATION	Fv	
PLATES, ANGLES, AND RODS	A36	<u>36</u> KSI	
STRUCTURAL TUBING (SQUARE OR RECTANGULAR)	A500 (GRADE B)	46 KSI	
ANCHOR BOLTS (EMBEDDED IN MASONRY OR CONCRETE)	A307		
CONNECTION BOLTS (3/4" ROUND, UNLESS SHOWN OTHERWISE)	A325-N		
THREADED RODS FOR EPOXY GROUTED CONNECTIONS	A36 OR A307 GRADE C	36 KSI	

HITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO SECTION 10 OF THE AISC 303-10. ANY STRUCTURAL STEEL THAT IS EXPOSED TO UPON COMPLETION OF THE PROJECT SHALL BE CONSIDERED ARCHITECTURALLY EXPOSED. SEE PROJECT SPECIFICATIONS FOR SPECIFIC BRICATION AND ERECTION REQUIREMENTS.

WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY WABO CERTIFIED WELDERS USING E70 XX CTRODES UNLESS OTHERWISE NOTED. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED.

<u>WOOD</u>

MING LUMBER SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH WCLIB STANDARD GRADING RULES FOR WEST AST LUMBER NO. 17, LATEST EDITION. FURNISH TO THE FOLLOWING MINIMUM STANDARDS.

<u>JOISTS</u> :	HEM-FIR NO. 2
(2X, 3X, AND 4X MEMBERS)	MINIMUM BASE VALUE, F_b = 850 PSI
<u>BEAM AND STRINGERS</u> :	DOUGLAS FIR LARCH NO. 1
(6 X AND LARGER MEMBERS)	MINIMUM BASIC DESIGN STRESS, F_b = 1,350 PSI
<u>POSTS AND TIMBERS:</u>	DOUGLAS FIR LARCH NO. 1
(6 X AND LARGER MEMBERS)	MINIMUM BASIC DESIGN STRESS, F_b = 1,200 PSI, F_C = 1,000 PSI
STUDS PLATES & MISCELLANEOUS LIGHT FRAMING	DOUGLAS FIR LARCH OR HEM-FIR NO. 2, MINIMUM BASIC DESIGN STRESS F_b = 850 PSI, F_C = 1,300 PSI
2X AND 3X TONGUE AND GROOVE DECKING	HEM-FIR COMMERCIAL DEX, F_b = 1,350 PSI

JED LAMINATED MEMBERS SHALL BE FABRICATED AND IDENTIFIED AS REQUIRED BY ASTM D3737 AND AITC A190.1. EACH MEMBER SHALL BEAR AN C IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN AITC CERTIFICATE OF CONFORMANCE. ALL GLUED LAMINATED MEMBERS SHALL NFORM TO APA PERFORMANCE STANDARD PRG-305. UNLESS OTHERWISE NOTED ALL SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR COMBINATION -V4, F_b = 2,400 PSI, F_V = 265 PSI, E = 1,800,000 PSI. ALL CANTILEVERED BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V8, F_b = 2,400 PSI, F_V = 265 PSI, E 800,000 PSI.

JED LAMINATED COLUMNS SHALL BE COMBINATION 2-DF-L2 AS FOLLOWS:

F_c = 1600 PSI, F_t = 1250 PSI, Fbx = 1700 PSI, Fby = 1300 PSI, E_{axial} = 1,600,000 PSI F_c = 1600 PSI, F_t = 1250 PSI, Fbx = 1700 PSI, Fby = 1600 PSI, E_{axial} = 1,600,000 PSI F_c = 1950 PSI, F_t = 1250 PSI, Fbx = 1700 PSI, Fby = 1800 PSI, E_{axial} = 1,600,000 PSI PRESERVATIVES ASSOCIATION STANDARD U1.

33.

PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, EXTERIOR GLUE IN CONFORMANCE WITH DOC PS 1-09 OR PS 2-18 AND AMERICAN PLYWOOD ASSOCIATION PERFORMANCE STANDARD PRP-108. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND PANEL INDEX MAY BE USED IN LIEU OF PLYWOOD. SEE PLANS FOR THICKNESS, PANEL IDENTIFICATION INDEX AND NAILING REQUIREMENTS. EACH PANEL SHALL BE IDENTIFIED FOR GRADE AND GLUE TYPE BY THE TRADEMARKS OF AN APPROVED TESTING AND GRADING AGENCY.

ALL WOOD PLATES IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE, PROVIDE LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER BETWEEN UNTREATED LEDGERS, BLOCKING, ETC. AND CONCRETE OR MASONRY. PRESSURE TREATED LUMBER SHALL COMPLY WITH THE AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U1, COMMODITY SPECIFICATION A AS INDICATED BELOW OR HAVE EQUIVALENT ICC-ES APPROVAL.

PROPOSED USE
RESIDENTIAL DECKS
SAWN LUMBER
PLYWOOD
<u></u>
SILL PLATES
INTERIOR LEDGERS

A. IDENTIFICATION OF TREA
B. TYPE OF PRESERVATIVE
C. MINIMUM PRESERVATIVE
D. END USE FOR WHICH THE
E. IDENTITY OF THE ACCREI
F. STANDARD TO WHICH TH

TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-C-2024. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER TO ACHIEVE THE MAXIMUM PUBLISHED ALLOWABLE LOAD. ALL CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER. SHIMS, WHERE REQUIRED, SHALL BE SEASONED AN DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED.

ALL BOLTS IN WOOD N	ИEN	IBERS
BEARING ON WOOD.	ALL	LAG S

UNLESS NOTED OTHERWISE ALL SAWN LUMBER JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "LUS" SERIES JOIST HANGERS AND ALL PREFABRICATED PLYWOOD WEB JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "IUS" SERIES JOIST HANGERS.

ALL CONNECTIONS/FASTENERS IN CONTACT WITH PRESERVATIVE-TREATED OR FIRE-RETARDANT-TREATED WOOD, SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS STEEL. HOT DIPPED GALVANIZED FASTENERS SHOULD CONFORM TO ASTM STANDARD 153, AND HOT DIPI GALVANIZED CONNECTORS SHOULD CONFORM TO ASTM STANDARD A653 (CLASS G-185). STAINLESS STEEL FASTENERS AND CONNECTORS SHOULD I TYPE 304 OR 316. NOTE: ELECTROPLATED GALVANIZED FASTENERS AND CONNECTORS ARE NOT TO BE USED WITH PRESSURE TREATED WOOD. SIMPSON PRODUCT FINISHES CORRESPONDING TO THE ABOVE REQUIREMENTS ARE ZMAX (HOT DIPPED GALVANIZED) AND SST300 (STAINLESS STEE STAINLESS STEEL HARDWARE AND FASTENERS SHALL NOT BE COMBINED WITH UNTREATED OR GALVANIZED MATERIAL

35. WOOD FASTENERS:

|--|

SIZE	
6d	
8d	
10d	
12d	

16d

36

DESIGN IS BASED ON COMMON STEEL WIRE NAILS MEETING THE REQUIREMENTS OF ASTM F1667. USE OF ALTERNATE FASTENERS MUST BE SUBMITT FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO THE START OF CONSTRUCTION.

NAILS — PLYWOOD (APA RATED SHEATHING) FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED.

<u>woo</u>	<u>D FRAMING NOTES</u> — THE
Α.	ALL WOOD FRAMING DE CODE. MINIMUM NAILING NOTED OTHERWISE, ALL ARCHITECTURAL DRAWI INSTALLATION OF BOLTS WOOD CONSTRUCTION. THE INTERNATIONAL BU

WALL FRAMING: ALL STUD WALLS SHOWN AND NOT OTHERWISE NOTED SHALL BE 2X6 AT 16" O.C. TWO STUDS MINIMUM SHALL BE PROVIDED / THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS. TWO 2 x 8 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS NOT OTHERWISE NOTED AND SHALL BEAR FULLY ON A MINIMUM OF TWO STUDS. SOLID BLOCKING FOR WOOD COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. PROVIDE SOLID BLOCKING BETWEEN STUDS AT MID HEIGHT OF ALL STUD WALLS OVER 10' IN HEIGHT.

STUDS MAY BE NO	TCHE
STUD SIZE	MAX
2X4	
2X6	

WALLS SHALL HAVE A SINGLE BOTTOM PLATE AND A DOUBLE TOP PLATE. END NAIL TOP PLATE TO EACH STUD WITH TWO 16d NAILS, AND TOEN OR END NAIL EACH STUD TO BOTTOM PLATE WITH TWO 16d NAILS. FACE NAIL DOUBLE TOP PLATE WITH 16d AT 12" O.C. AND LAP MINIMUM 4'-0" A JOINTS AND PROVIDE EIGHT 16d NAILS AT 4" O.C. EACH SIDE OF JOINT.

ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16d NAILS AT 12" O.C. STAGGERED OR BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS (WITH 7L MINIMUM EMBEDMENT) @ 4'_0" O.C. UNLESS INDICATED OTHERWISE. PROVIDE 3Lx3" x1/4L HOT-DIPPED GALVANIZED PLATE WASHERS AT ALL ANCHOR BOLTS. INDIVIDUAL MEMBERS OF BUILT_UP POSTS SHALL BE NAILED TO EACH OTHER WITH 16d NAILS @ 12" O.C. STAGGERED. REFER TO THE PLANS AND SHEAR WALL SCHEDULE FOR REQUIRED SHEATHI AND NAILING. WHEN NOT OTHERWISE NOTED, PROVIDE GYPSUM WALLBOARD ON INTERIOR SURFACES NAILED TO ALL STUDS, TOP AND BOTTO PLATES AND BLOCKING WITH NAILS AT 7" O.C. USE 5d COOLER NAILS FOR 1/2" GWB AND 6d COOLER NAILS FOR 5/8" GWB. PROVIDE 15/32" APA RATED SHEATHING (SPAN RATING 24/0) ON EXTERIOR SURFACES NAILED AT ALL PANEL EDGES (BLOCK UNSUPPORTED EDGES), TOP AND BOTT PLATES WITH 8d NAILS @ 6" O.C. AND TO ALL INTERMEDIATE STUDS AND BLOCKING WITH NAILS @ 12" O.C. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS.

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NOTCHES AT THE END OF JOISTS AND RAFTERS SHALL NOT EXCEED 1/4 THE DEPTH OF THE MEMBER. NOTCHES IN THE TOP OR BOTTOM SHALL NOT EXCEED 1/6 THE DEPTH OF THE MEMBER AND SHALL NOT BE LOCATED WITHIN THE MIDDLE 1/3 OF THE SPAN. THE DIAMETER OF ROUND HOLES BORED IN JOISTS AND RAFTERS SHALL NOT EXCEED 1/3 OF THE DEPTH OF THE MEMBER AND SHALL NOT BE LOCATED WITHIN 2L FROM TOP OR BOTTOM EDGE.

TOENAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI JOIST BEAMS TOGETHER WITH TWO ROWS OF 16d @ 12" O.C. ATTACH RAFTER AND ROOF TRUSSES AT BEARING LINES WITH H2.5 @ 24" O.C. UNLESS OTHER METAL CONNECTIONS ARE INDICATED.

UNLESS OTHERWISE NOTED ON THE PLANS, APA RATED ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH STRENGTH AXIS PERPENDICULA TO SUPPORTS AND ATTACHED WITH 10d NAILS @ 6" O.C. TO FRAMED PANEL EDGES AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" O. TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD 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 ALL ROOF AND FLOOR SHEATHING. TOENAIL BLOCKING TO SUPPOR WITH 16d NAILS @ 12" O.C. UNLESS OTHERWISE NOTED. AT BLOCKED FLOOR AND ROOF DIAPHRAGMS PROVIDE FLAT 2X BLOCKING AT ALL UNFRAMED PANEL EDGES AND FASTEN SHEATHING TO FRAMING/BLOCKING AS SPECIFIED.

TONGUE AND GROOVE STRUCTURAL ROOF AND FLOOR DECKING SHALL BE INSTALLED AS FOLLOWS:

B. 3X AND 4X DECKING SHALL BE TOENAILED WITH ONE 40d NAIL AND FACE NAILED WITH ONE 60d NAIL PER SUPPORT. COURSES SHALL BE SPIKED TOGETHER WITH 8" SPIKES AT 30" O.C. (MAXIMUM) AND AT 10" (MAXIMUM) FROM EACH END OF EACH PIECE. SPIKES SHALL BE INSTALLED IN PREDRILLED EDGE HOLES.

WHERE REQUIRED BEAMS AND COLUMNS SHALL BE PRESSURE TREATED AFTER MANUFACTURE IN ACCORDANCE WITH AMERICAN WOOD-

	AWPA USE
	CATEGORY
DECKING	3B
JOISTS ABOVE GROUND	3B
JOISTS IN CONTACT WITH GROUND	4A
POSTS	4A
RAILING	3B
LEDGERS	3B
ABOVE GROUND	3B
GROUND CONTACT	4A
DAMP ABOVE GROUND	2
EXTERIOR ABOVE GROUND	3B
GROUND CONTACT	4A
IN CONTACT WITH CONCRETE OR	2
MASONRY	
IN CONTACT WITH CONCRETE OR	2
MASONRY	

ALL TREATED LUMBER SHALL BEAR THE QUALITY MARK OF AN ACCREDITED INSPECTION AGENCY. THE QUALITY MARK SHALL INCLUDE:

ATING MANUFACTURER USED E RETENTION (PCF)

E PRODUCT IS TREATED EDITED INSPECTION AGENCY

THE PRODUCT IS TREATED

SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS SCREWS SHALL BE INSTALLED IN PRE-DRILLED HOLES.

ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

LENGTH	DIAMETER
2"	0.113"
2-1/2"	0.131"
3"	0.148"
3-1/4"	0.148"
3-1/2"	0.162"

FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

ETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILD G, UNLESS OTHERWISE NOTED, SHALL CONFORM TO TABLE 2304.10.1 OF THE INTERNATIONAL BUILDING CODE. UNLESS NAILS SHALL BE AS SPECIFIED ABOVE. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AN INGS. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. S AND LAG SCREWS SHALL CONFORM TO SECTIONS 12.1.3 AND 12.1.4 OF THE 2018 NATIONAL DESIGN SPECIFICATION FO . NATURALLY DURABLE OR PRESSURE TREATED WOOD SHALL BE PROVIDED WHERE REQUIRED BY SECTION 2304.12 OF ILDING CODE.

ED, CUT, OR PENETRATED WITH ROUND BORED HOLES AS FOLLOWS:

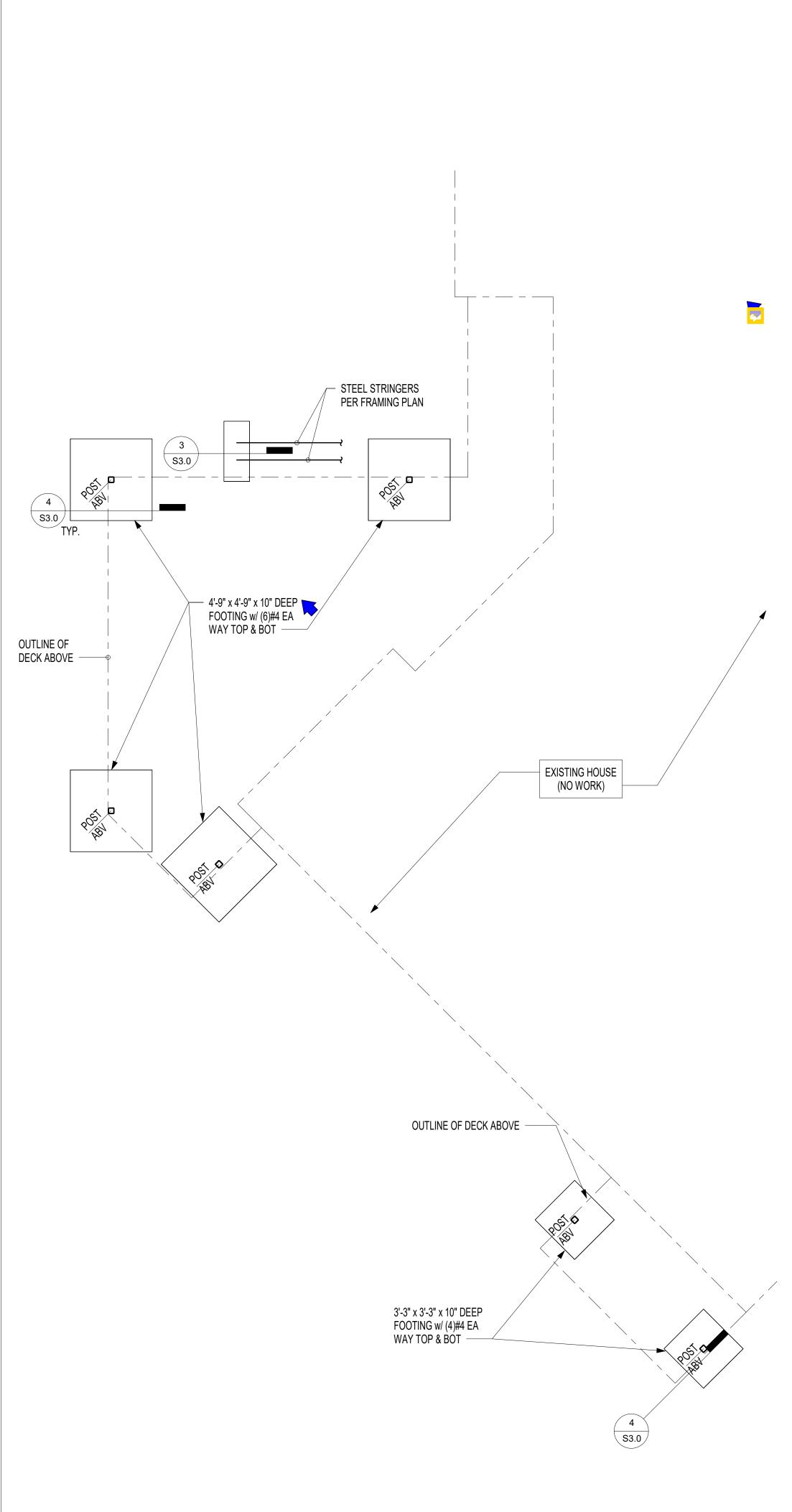
KIMUM NOTCH / CUT	MAXIMUM BORED HOLE
7/8J	1-3/8J
1-3/8J	2-1/8J

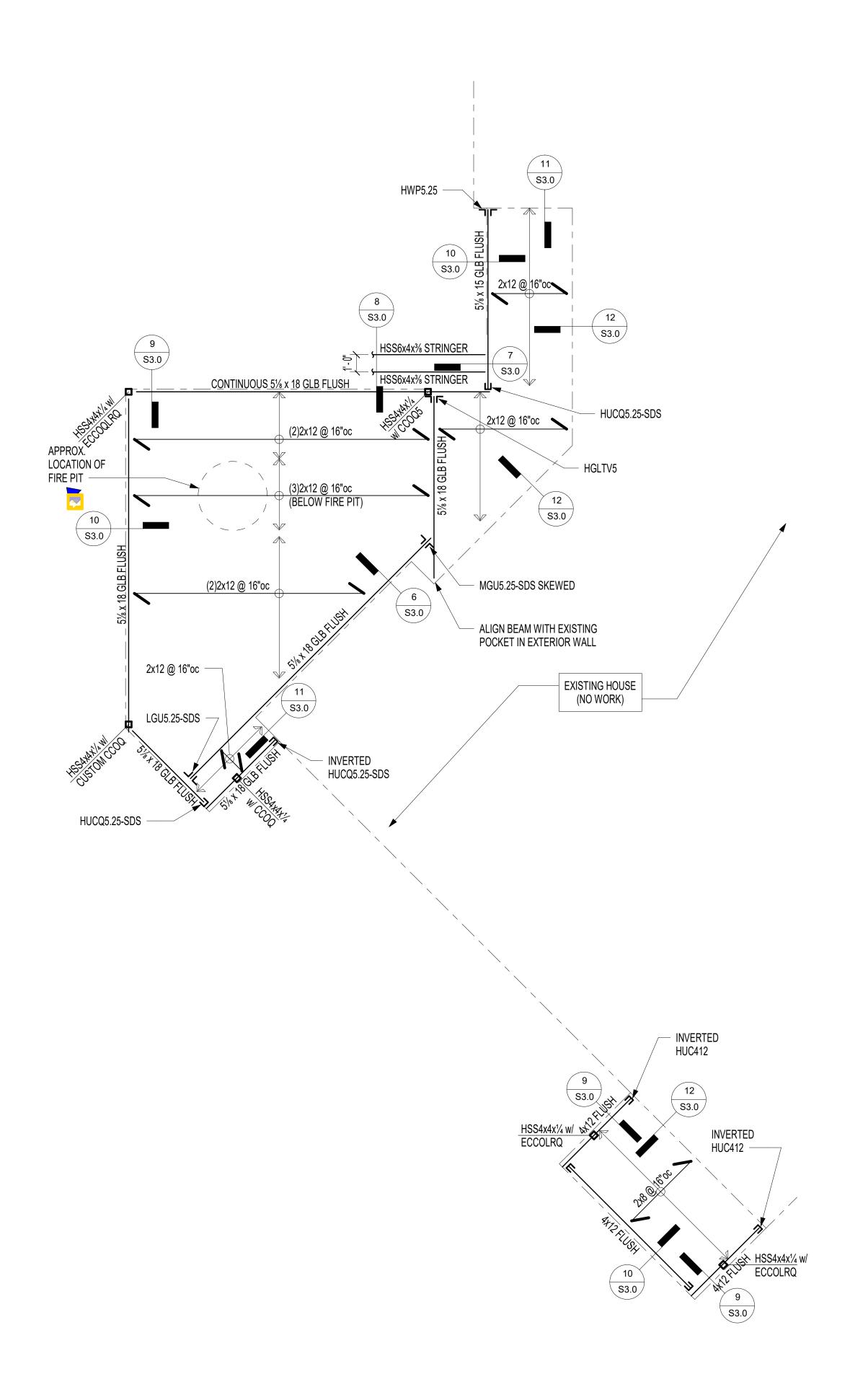
BORED HOLES SHALL NOT BE LOCATED WITH 5/8L FROM THE EDGE OF THE STUD OR AT THE SAME LOCATION AS A NOTCH OR CUT.

/ING: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING AT ALL BEARING POINTS.

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DR ID PED BE	RESIDENCE RUCTURAL NOTES MERCER ISLAND, WA 98040				
TED ING ND DR T	KIM-UM RESIDENCE General Structural Notes 3440 69TH AVE SE MERCER ISLAND, WA 9804				
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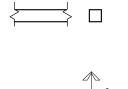
CONTRACTOR SHALL CHECK FOR DRY ROT AT ALL EXTERIOR WALLS, EXISTING TOILET ROOM FLOORS AND WALLS, AREAS SHOWING WATER STAINS, AND ALL WOOD MEMBERS IN BASEMENT AND CRAWL SPACES. ALL ROT SHALL BE REMOVED AND DAMAGED MEMBERS SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE STRUCTURAL ENGINEER.





LEGEND

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SPAN AND EXTENTS

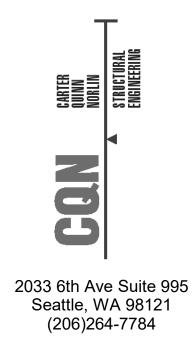
WALL/ COLUMN

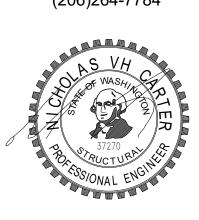
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INDICATES DETAIL X ON SHEET SX.XX

FRAMING PLAN NOTES

- 1. DECK SHEATHING SHALL BE 23/32" TONGUE AND GROOVE APA RATED STRUCTURAL PLYWOOD SHEATHING WITH PANEL INDEX 48/24. ATTACH TO FRAMING WITH 10d NAILS AT 6" OC AT FRAMED PANEL EDGES AND WALLS AND 12" OC AT INTERMDIATE FRAMING UNO. PROVIDE BLOCKING AND PANEL EDGE NAILING PER DETAIL 2/S6.04 AT ALL PANEL EDGES UNO.
- 2. SIMPSON CCOQ SERIES COLUMNS CAPS CALLED OUT ON THE PLANS ARE THE "NO STRAP" VERSION AND SHALL BE BE WELDED TO THE TOP OF HSS COLUMNS WITH 3/16" FILLET WELDS ON ALL SIDES.





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