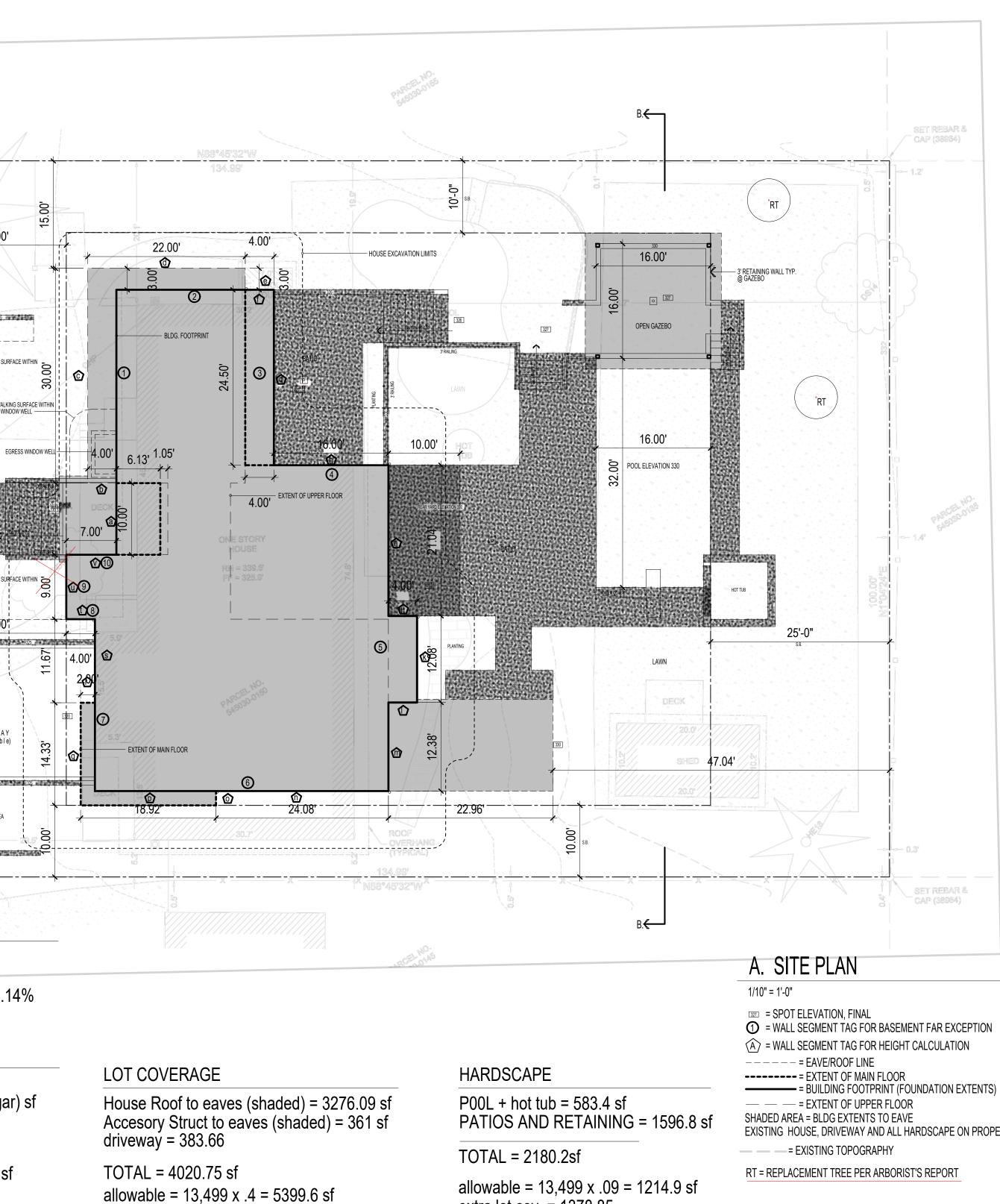
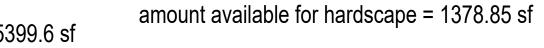
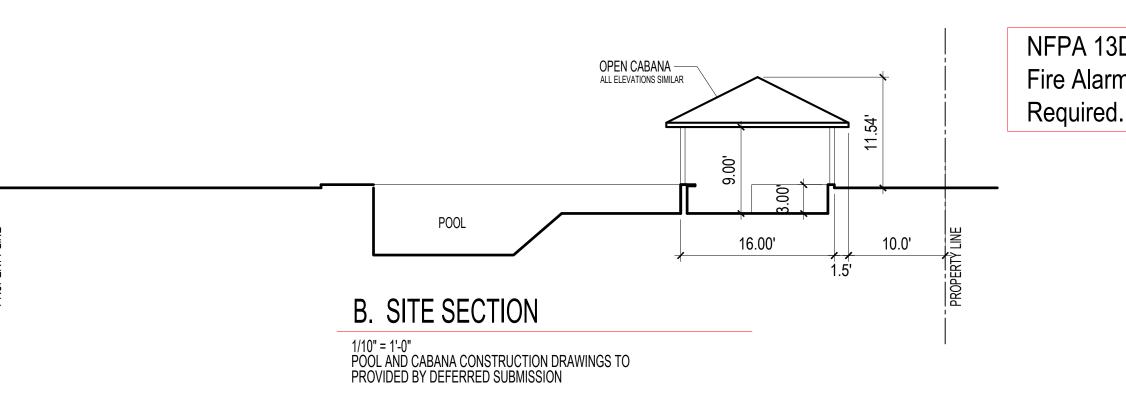
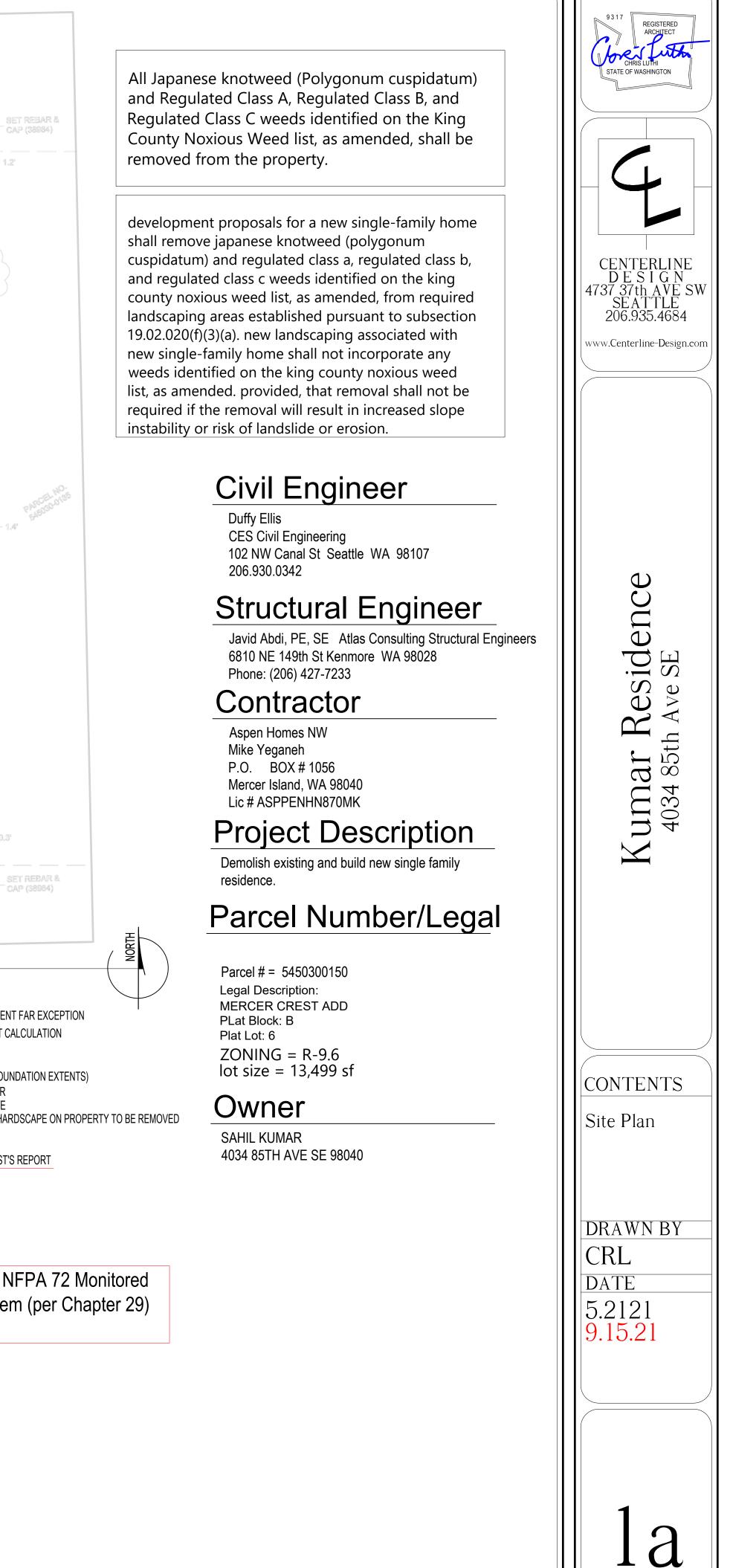
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extra lot cov. = 1378.85 TOTAL allow. = 2593.75 sf



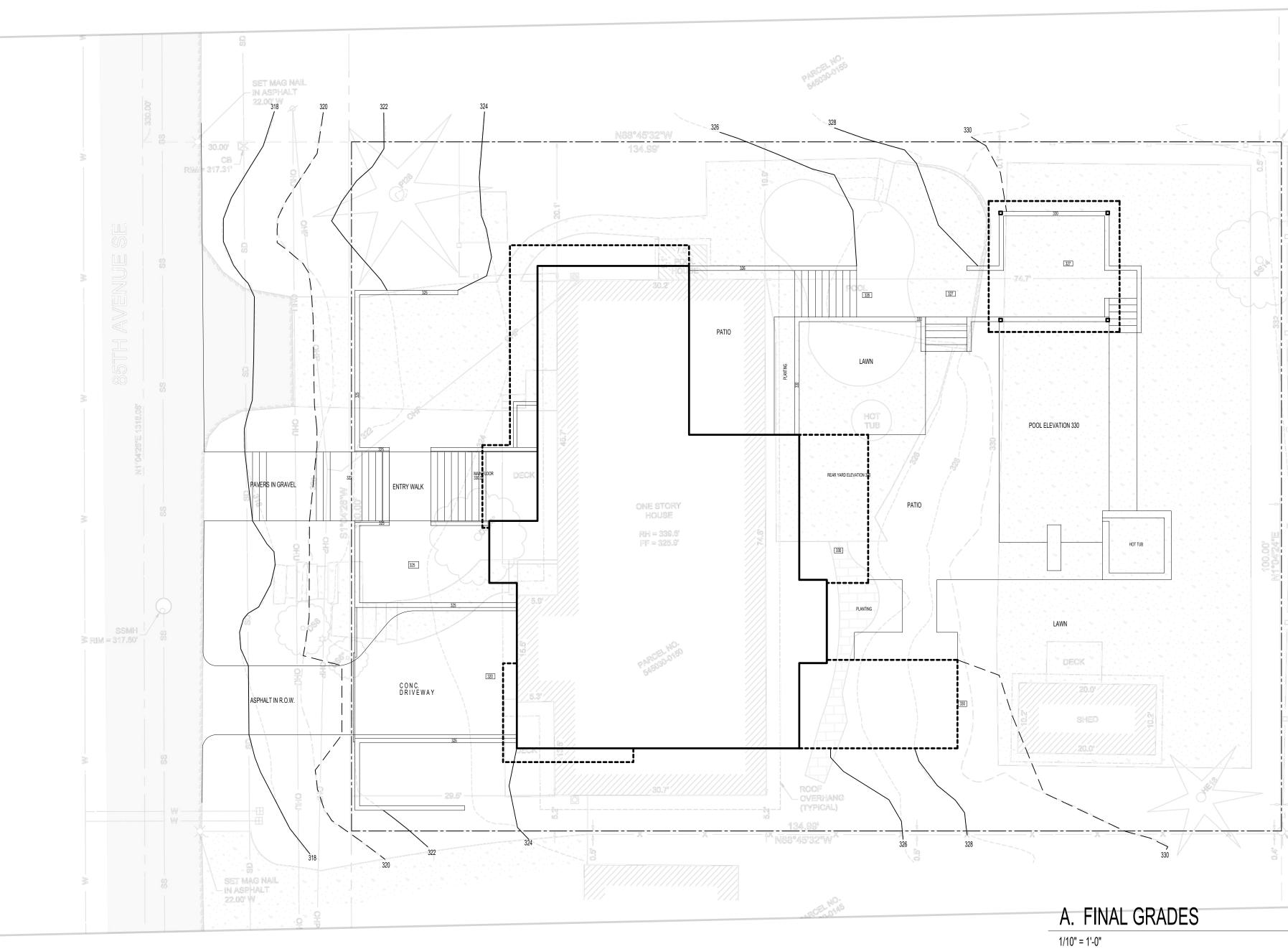


CAP (38964)

-1 A!

SHADED AREA = BLDG EXTENTS TO EAVE EXISTING HOUSE, DRIVEWAY AND ALL HARDSCAPE ON PROPERTY TO BE REMOVED

NFPA 13D and NFPA 72 Monitored Fire Alarm System (per Chapter 29)

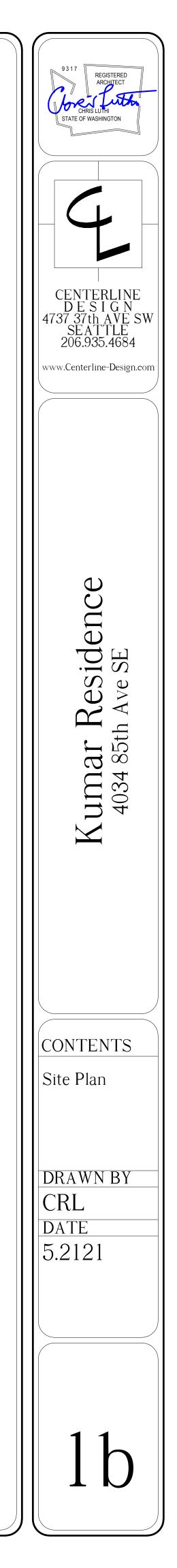


327 = SPOT ELEVATION, FINAL

----- = CANTILEVER/EAVE/ROOF LINE

EXISTING HOUSE, DRIVEWAY AND ALL HARDSCAPE ON PROPERTY TO BE REMOVED

— — — = EXISTING TOPOGRAPHY



SET REBAR & CAP (38964)

- 1.4'

SET REBAR & / CAP (38984)

NOTES

SD = SMOKE DETECTOR, HARDWIRE, INTERCONNECTED w/ BATTERY BACK-UP CO CARBON MONOXIDE DETECTOR, HARDWIRE w/ BATTERY BACK-UP

DOORS ARE 3-0 x 6-8 (r.o. = 3'-2" x 6'-10") unless otherwise indicated

𝚫 = FAN, 50 CFM UNLESS OTHERWISE INDICATED FOR SHEAR WALL INFORMATION SEE STRUCTURAL PLANS

ALL INTERIOR WALLS TO BE 2x4, EXTERIOR WALLS 2x6, EXCEPT AS INDICATED, OR EXISTING

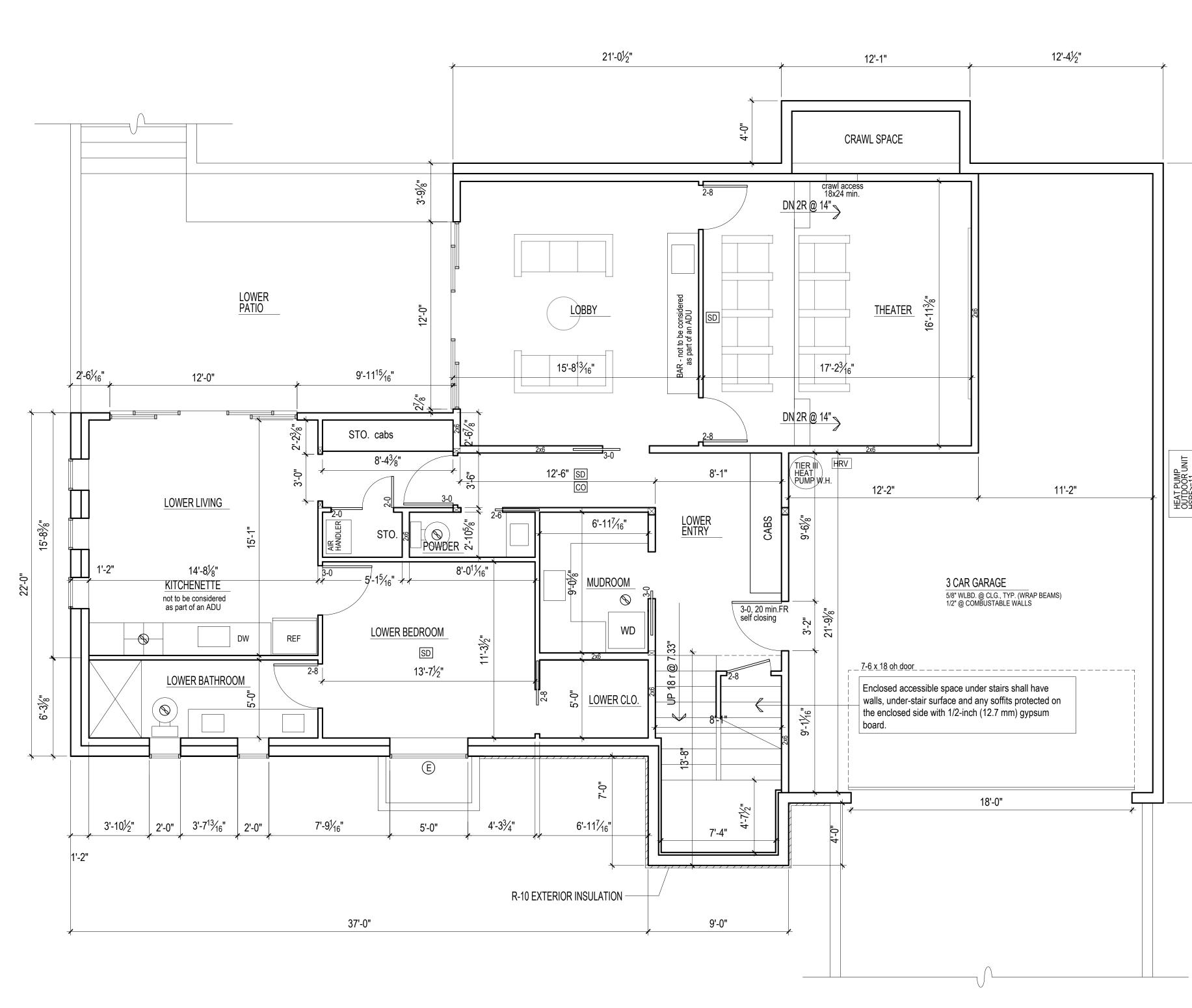
- (E) =EGRESS WINDOWS

Contractor shall verify to Inspector all guards and railings shall be capable of resisting 200 lb load on top rail acting in any direction as required by IRC Table R301.5.

ALL WALLS FULL HIEGHT UNLESS OTHERWISE INDICATED

T) =TEMPER/SAFETY GLAZE WINDOWS

ALL GAS F.P. TO BE APPROVED DIRECT VENT



| | 9317 REGISTERED ARCHITECT CHRIS LUTHI STATE OF WASHINGTON |
|--|---|
| | |
| 41-0. | Kumar Residence 4034 85th Ave SE |
| | CONTENTS Lower Floor |
| | DRAWN BY CRL DATE 8.5.21 |
| A. LOWER FLOOR PLAN 1/4" = 1'-0" FLOOR AREA = 2403sf GARAGE = 758sf | 01 |

NOTES

SD= SMOKE DETECTOR, HARDWIRE, INTERCONNECTED w/ BATTERY BACK-UPCOCARBON MONOXIDE DETECTOR, HARDWIRE w/ BATTERY BACK-UP

DOORS ARE 3-0 x 6-8 (r.o. = 3'-2" x 6'-10") unless otherwise indicated

S = FAN, 50 CFM UNLESS OTHERWISE INDICATED FOR SHEAR WALL INFORMATION SEE STRUCTURAL PLANS

- ALL INTERIOR WALLS TO BE 2x4, EXTERIOR WALLS 2x6, EXCEPT AS INDICATED, OR EXISTING
- E =EGRESS WINDOWS

Contractor shall verify to Inspector all guards and railings shall be capable of

resisting 200 lb load on top rail acting in any direction as required by IRC Table

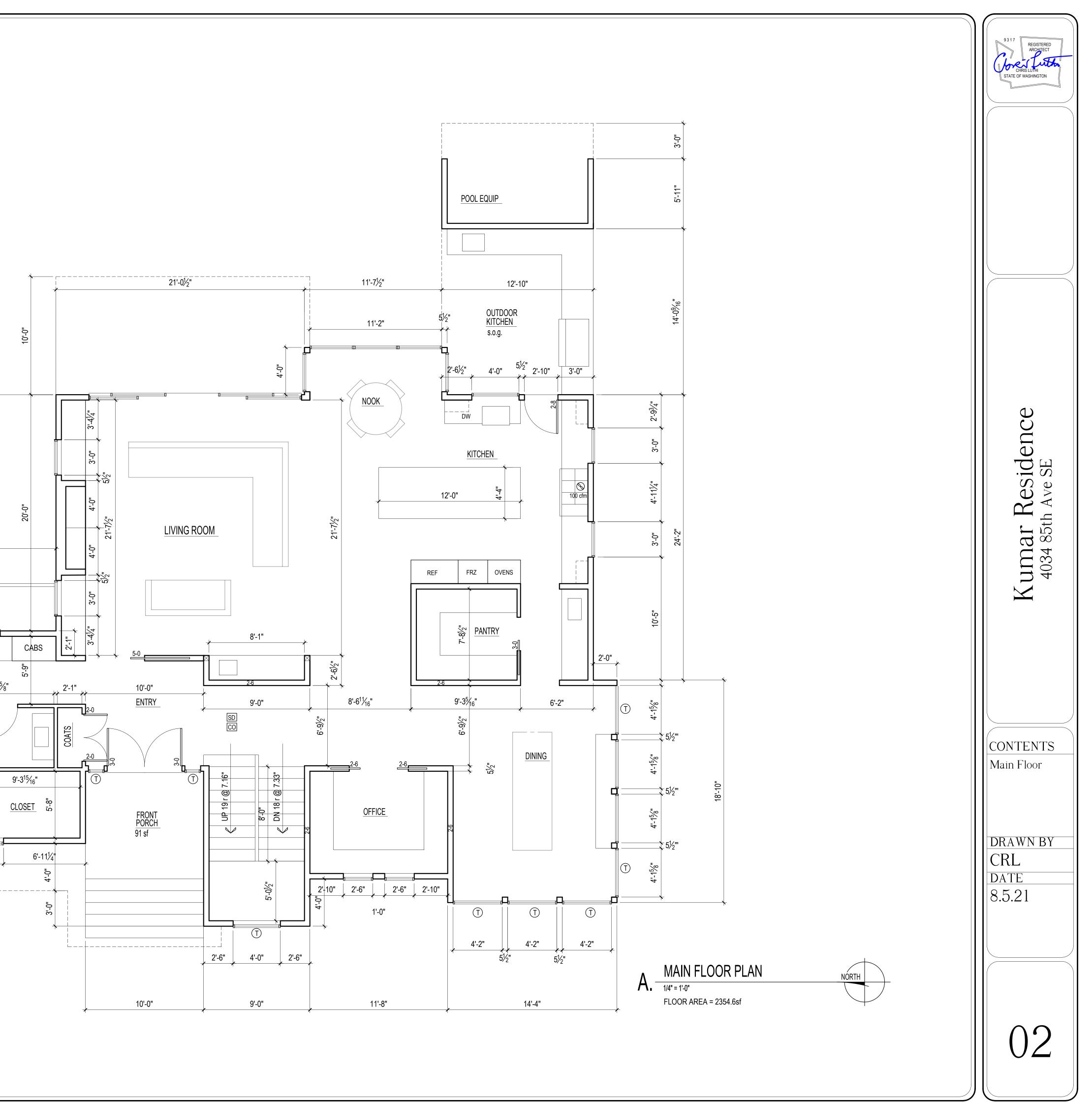
R301.5.

ALL WALLS FULL HIEGHT UNLESS OTHERWISE INDICATED

T =TEMPER/SAFETY GLAZE WINDOWS ALL GAS F.P. TO BE APPROVED DIRECT VENT

> 24'-6" 1'-5¹/₁₆" 12'-0" 1 1 <u>G. DECK</u> 98 sf -0\4" 14'-0³⁄8" bench ά. 9'-4⁵⁄8" 11'-1½" .0-.9 G. BEDROOM SD POWDER 18'-0" $\odot)$ 4'-8¼" G. BATH • (T) 5 2'-3½" 2'-0" 3'-6³/4" 2'-0" 3'-6³/4" 2'-0" 6'-11½''





NOTES

SD = SMOKE DETECTOR, HARDWIRE, INTERCONNECTED w/ BATTERY BACK-UP CO CARBON MONOXIDE DETECTOR, HARDWIRE w/ BATTERY BACK-UP

DOORS ARE 3-0 x 6-8 (r.o. = 3'-2" x 6'-10") unless otherwise indicated

 \bigcirc = FAN, 50 CFM UNLESS OTHERWISE INDICATED FOR SHEAR WALL INFORMATION SEE STRUCTURAL PLANS

ALL INTERIOR WALLS TO BE 2x4, EXTERIOR WALLS 2x6, EXCEPT AS INDICATED, OR EXISTING

E =EGRESS WINDOWS

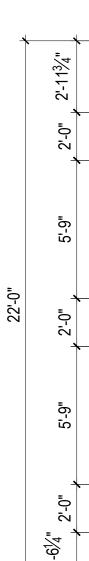
Contractor shall verify to Inspector all guards and railings shall be capable of

resisting 200 lb load on top rail acting in any direction as required by IRC Table R301.5.

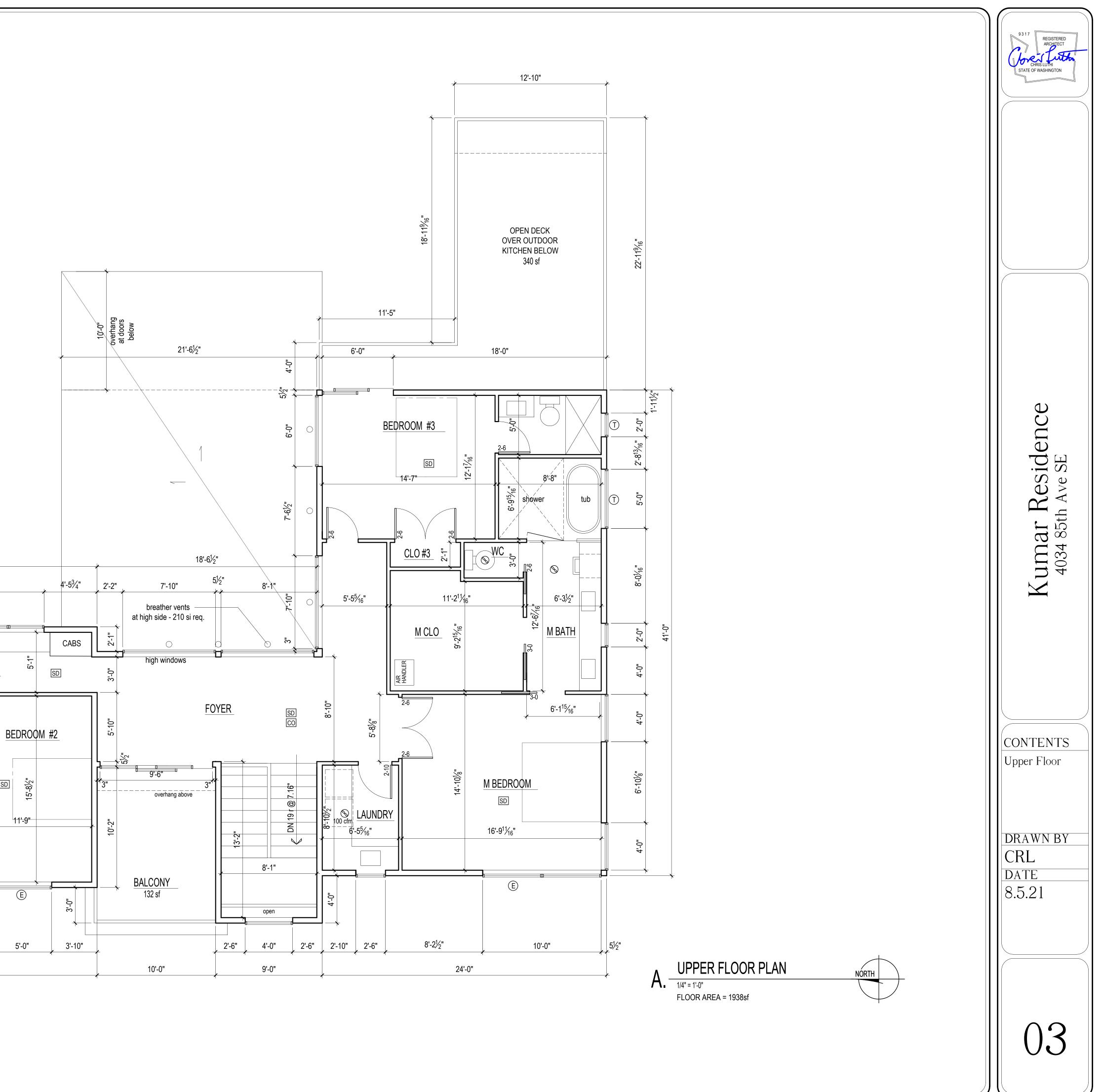
ALL WALLS FULL HIEGHT UNLESS OTHERWISE INDICATED

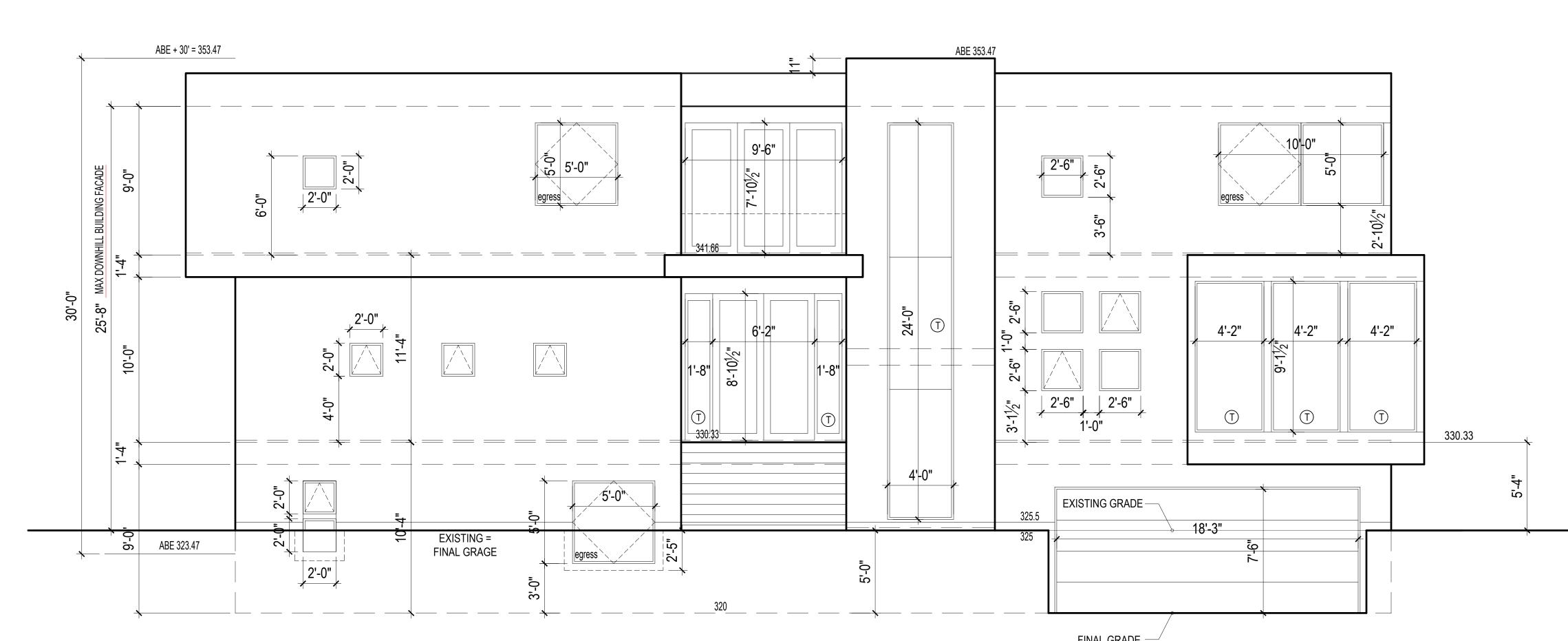
T =TEMPER/SAFETY GLAZE WINDOWS ALL GAS F.P. TO BE APPROVED DIRECT VENT

> 30'-0" 7'-8¹⁄4" 9'-0" 3'-10" 5'-0" 1 E _____O_____O_____ CABS 11'-9" bench Upper Hall 5'-1¹³⁄₁₆" 2-0 2'-4¹/4" BEDROOM #1 SD <u>2-0</u> <u>2-0</u> **2**-0 9'-5" CLO #1 CLO #2 SD 2-0 8'-3½" 3'-2" 5'\0" UPPER BATH ھ $|\otimes|)$ 7'-0³⁄4" 12'-1¹⁄4" 2'-0" 30'-0"

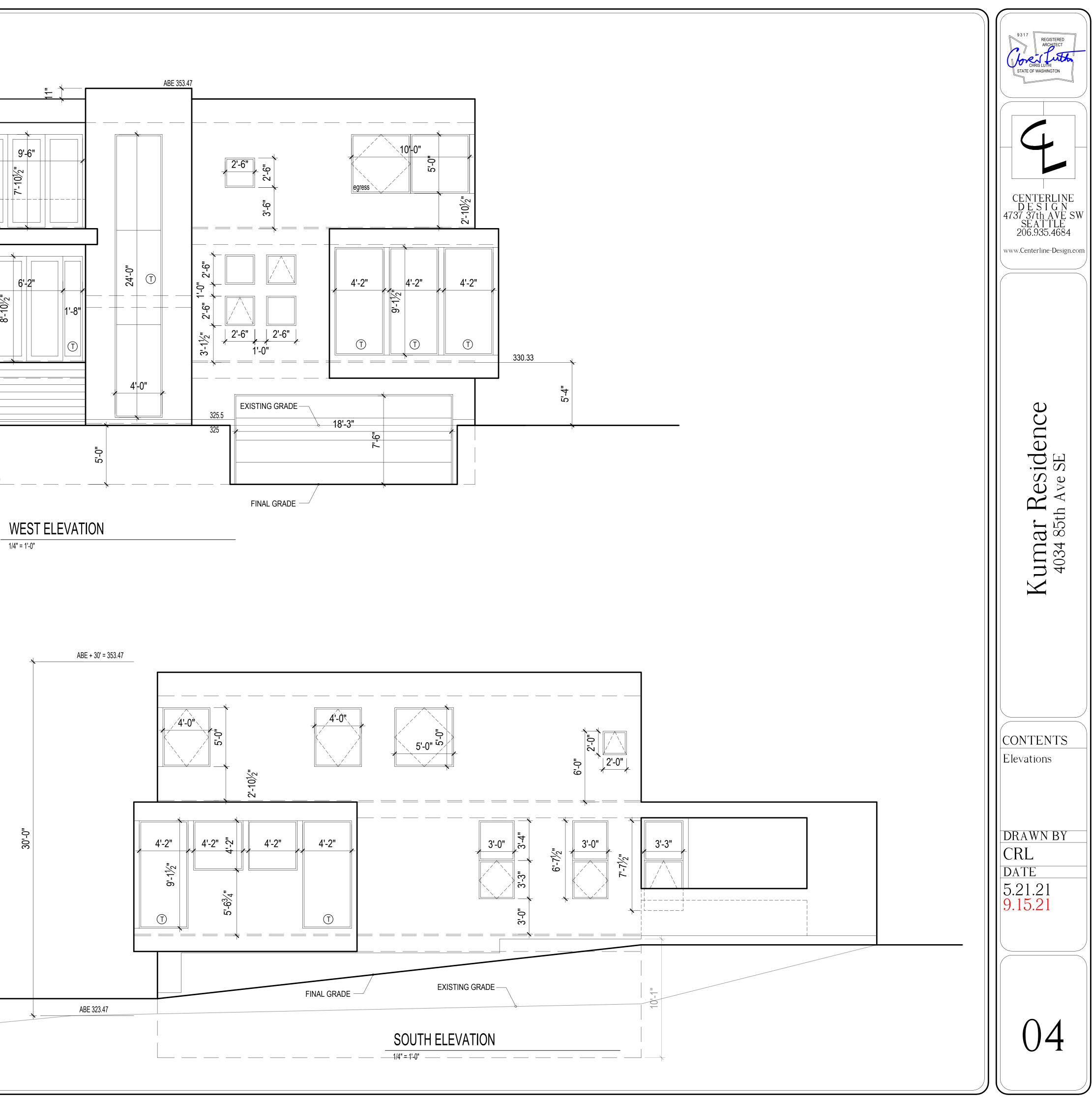


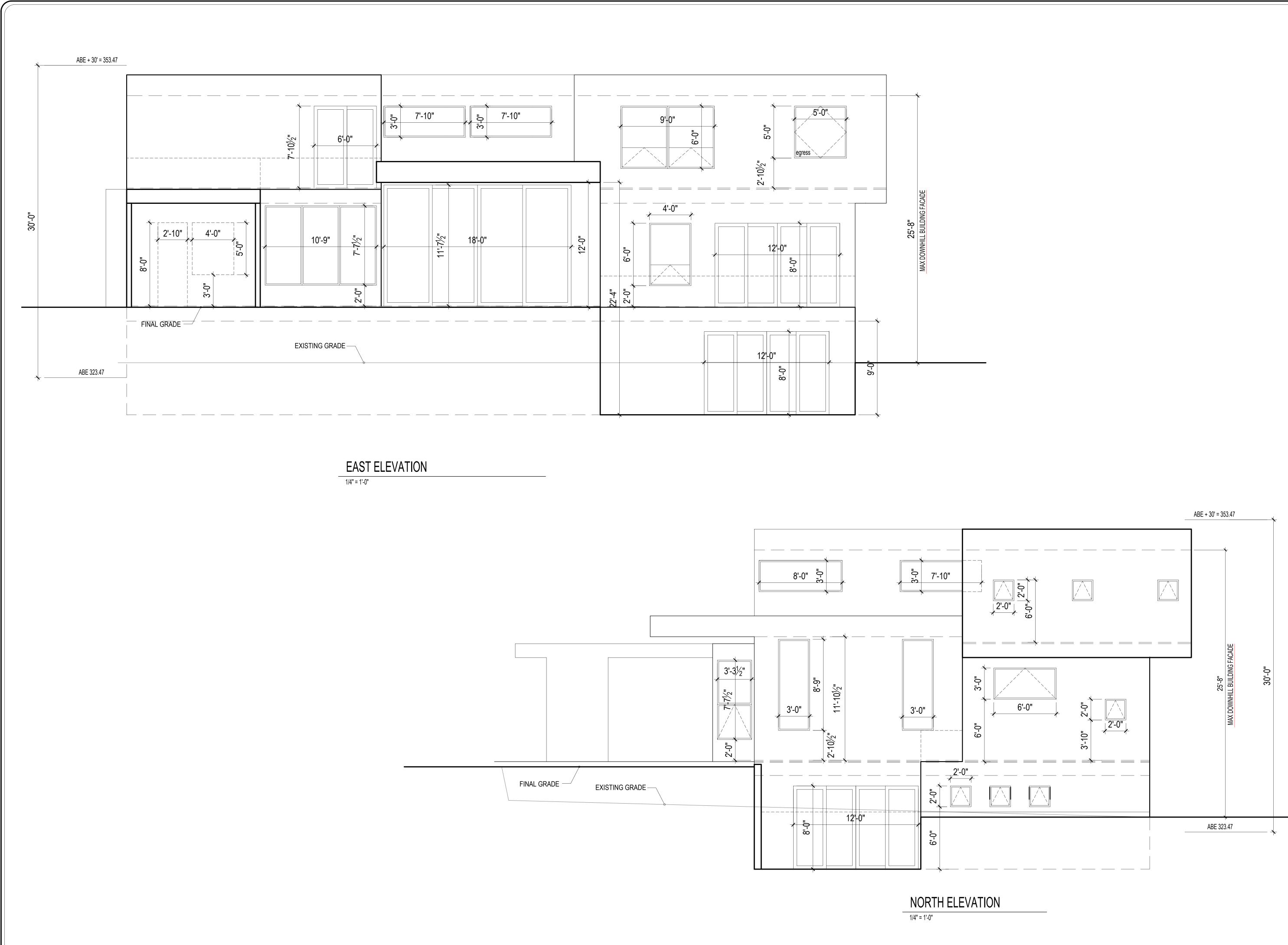
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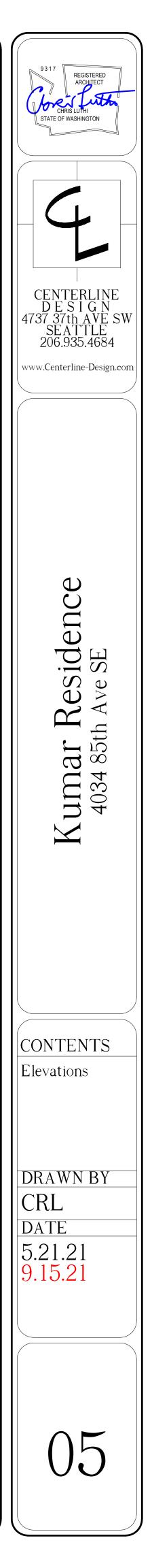


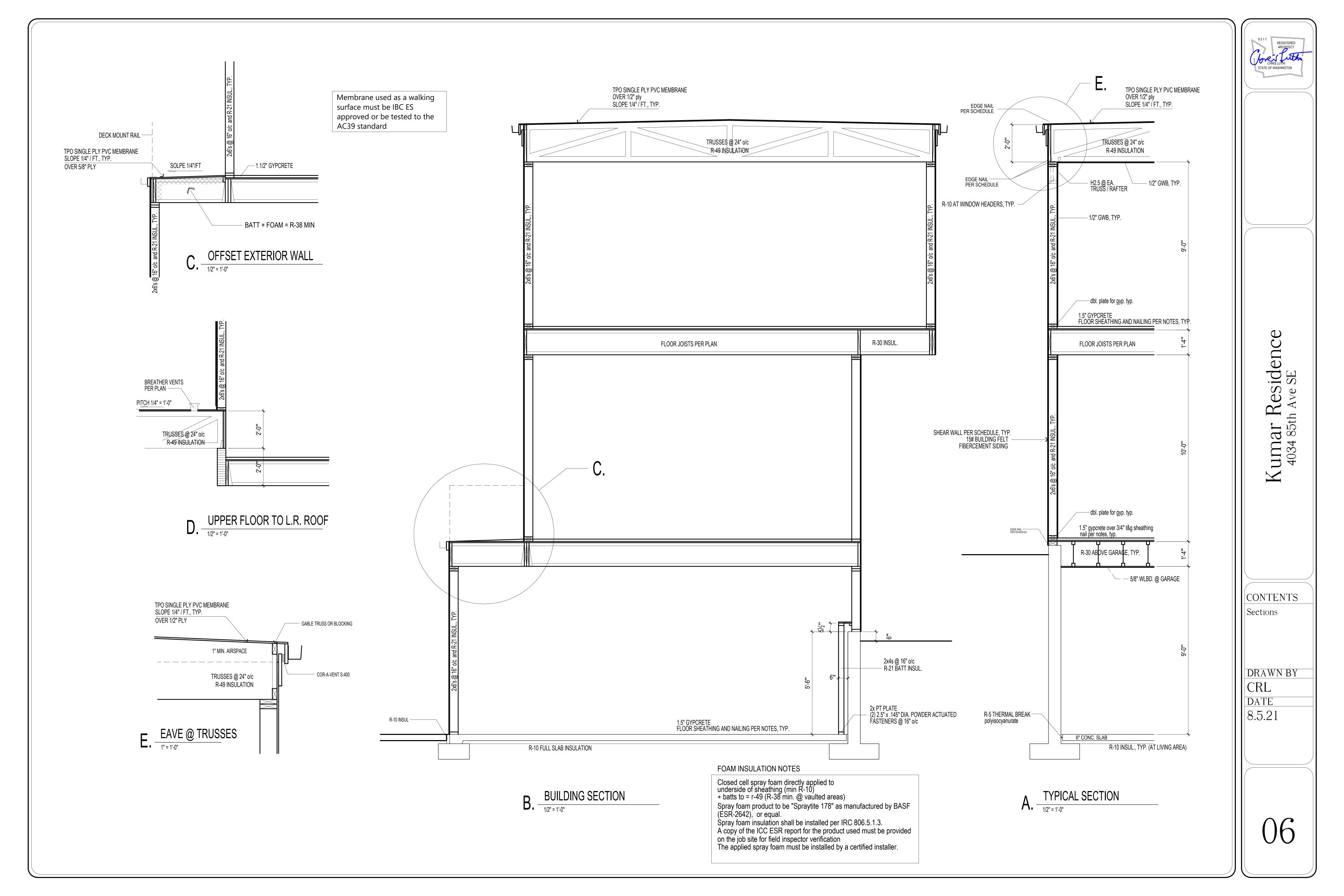


WEST ELEVATION

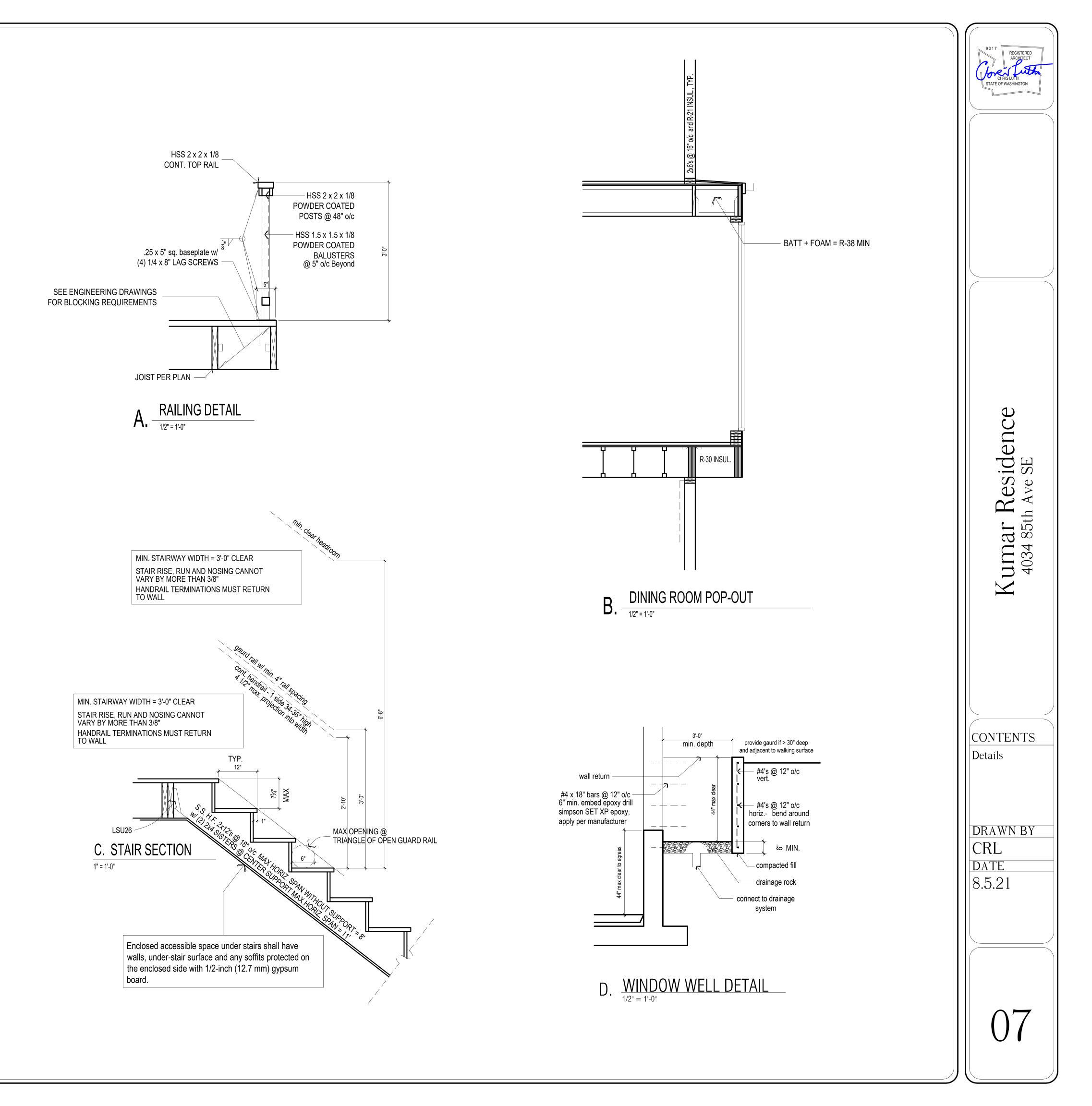












Energy Code Info

2018 WA STATE PRESCRIPTIVE PATH

energy credit option credit value summary

| | 1.7 | 0.5 | ins. over wall, .28 windows |
|---------------|-----|-----|-----------------------------|
| | 2 | 1 | heat pump |
| | 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 | 2 | elec. HP WH |
| | 7.1 | 0.5 | appliance package |
| | | | |
| total credits | | 7 | |

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 | hestration U-Factor ^b | n/a | >9.30 ₹.28 | | | |
| Sky | light U-Factor ^b | n/a | 0.50 | | | |
| Gla | zed Fenestration SHGC ^{b,e} | n/a | n/a | | | |
| Cei | ling ^e | 49 | 0.026 | | | |
| Wo | ood Frame Wall ^{g,h} | 21 int | 0.056 | | | |
| Flo | or | 30 | 0.029 | | | |
| Bel | ow Grade Wall ^{c,h} | 10/15/21 int + TB | 0.042 | | | |
| Slal | b ^{d,f} R-Value & Depth | 10, 2 ft | n/a | | | |
| | R-values are minimums. U-fact | ors and SHGC are maximums. When ins | sulation is installed in a cavity that is less | | | |
| а | than the label or design thickn | ess of the insulation, the compressed <i>R</i> | -value of the insulation from Appendix | | | |
| | Table A101.4 shall not be less | than the <i>R</i> -value specified in the table. | | | | |
| b | The fenestration U-factor colu | mn excludes skylights. | | | | |
| | "10/15/21 +5TB" means R-10 o | continuous insulation on the exterior of | the wall, or R-15 continuous insulation or | | | |
| | the interior of the wall, or R-21 | L cavity insulation plus a thermal break | between the slab and the basement wall | | | |
| С | the interior of the basement w | all. "10/15/21 +5TB" shall be permitted | I to be met with R-13 cavity insulation on | | | |
| | | all plus R-5 continuous insulation on th | e interior or exterior of the wall. "5TB" | | | |
| | means R-5 thermal break betw | een floor slab and basement wall. | | | | |
| d | R-10 continuous insulation is re | equired under heated slab on grade flo | ors. See Section R402.2.9.1. | | | |
| e | For single rafter- or joist-vaulte | ed ceilings, the insulation may be reduc | ed to R-38 if the full insulation depth | | | |
| C | extends over the top plate of t | he exterior wall. | | | | |
| | R-7.5 continuous insulation ins | R-7.5 continuous insulation installed over an existing slab is deemed to be equivalent to the required perimeter | | | | |
| f | slab insulation when applied to existing slabs complying with Section R503.1.1. If foam plastic is used, it shall | | | | | |
| | meet the requirements for thermal barriers protecting foam plastics. | | | | | |
| _ | For log structures developed in compliance with Standard ICC 400, log walls shall meet the requirements for | | | | | |
| g | climate zone 5 of ICC 400. | | | | | |
| | Int. (intermediate framing) der | notes framing and insulation as describe | ed in Section A103.2.2 including standard | | | |
| h | framing 16 inches on center, 7 | 8% of the wall cavity insulated and head | ders insulated with a minimum of R-10 | | | |
| | insulation. | | | | | |

ENERGY CREDIT DESCRIPTIONS

1.7

Advanced framing and raised heel trusses or rafters Vertical Glazing U-0.28

R-49 Advanced (U-0.020) as listed in Section A102.2.1, Ceilings below a vented attic and R-49 vaulted ceilings with full height of uncompressed insulation extending over the wall top plate at the eaves.

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.

7.1

All of the following appliances shall be new and installed in the dwelling unit and shall meet the following standards: Dishwasher Energy Star rated Refrigerator (if provided) Energy Star rated Washing machine Energy Star rated Dryer Energy Star rated, ventless dryer with minimum CEF rating of 5.2

To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the appliance type and provide documentation of Energy Star compliance. At the time of inspection, all appliances shall be installed and connected to utilities. Dryer ducts and exterior dryer vent caps are not permitted to be installed in the dwelling unit.

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| 2. | DESIGN LOADING CRITERIA |
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| | RISK CATEGORY IBC TABLE 1604.5 II ROOF SNOW LOAD 25 PSF (I _S = 1.0) DECK DEAD LOAD 25 PSF LIVE LOAD 40 PSF DECK LIVE LOAD 60 PSF FLOOR DEAD LOAD 36 PSF |
| | EARTHQUAKE |
| | WIND |
| | WIND PRESSURES BASED ON LESS THAN 10 SQUARE FOOT TRIBUTARY AREAS NEAR WA CORNERS OR ROOF EDGES (EXCLUDING CORNER ZONES AT ROOF). REDUCED DESIGN PRESSURES MAY BE CALCULATED IN ACCORDANCE WITH ASCE 7–10 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 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 STABIL 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, TECHNIQUE SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK. |
| 6. | DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NO 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 THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDAN 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 RESPONSIE FOR ALL COSTS RELATED TO THE PURCHASE AND INSTALLATION OF NECESSARY SUPPORTS, BRACING AND ANCHORAGE. SEISMIC BRACING AND ANCHORAGE DESIGN AND CONSTRUCTION SHALL COMPLY W 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. DIMENS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, AND THEREFORE MUST BE VERIFIBY 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 DESCONCEPT BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, 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 DE DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED. |
| 10. | DEFERRED SUBMITTALS SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF WASHING THE COMPONENT DESIGNER SHALL BE A REGISTERED STRUCTURAL ENGINEER IF REQUIRED BY THE BUILDING OFFICIAL OF THE LOCAL JURISDICTION. BUILDING COMPONENT SUBMITTALS SHALL INCLUDE DESIGNING PROFESSIONAL ENGINEER'S STAMP AND SHALL BE APPROVED BY THE COMPONENT DESIGNE 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 NECESS CONNECTIONS NOT SPECIFICALLY CALLED OUT ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. DEFEI SUBMITTALS SHALL INDICATE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON BASIC STRUCTU 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 F THE GOVERNING JURISDICTIONS INSPECTORS USE AND REFERENCE. THE FOLLOWING BUILDING COMPONE SHALL BE DEFERRED SUBMITTALS FOR THIS PROJECT: PREFABRICATED CONNECTOR PLATE WOOD ROOF TRUSSES (SEE NOTE 23) |
| | ECHNICAL: FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH THE RECOMMENDATIONS GIVEN IN THE SPECIFICATIONS OR AS DIRECTED BY THE OWNER APPOINTED GEOTECHNICAL ENGINEER. FOOTINGS SH BEAR ON FIRM, UNDISTURBED EARTH OR CONTROLLED, COMPACTED STRUCTURAL FILL AT LEAST 18" BELOW LOWEST ADJACENT FINISHED GRADE AT THE EXTERIOR; AND 12" AT THE INTERIOR. THE OWNE APPOINTED GEOTECHNICAL ENGINEER SHALL APPROVE FOOTING EXCAVATION/PREPARATION PRIOR TO PLACEMENT OF ALL FOOTINGS. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING, GRANUL FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE SPECIFICATIONS OR AS DIRECTED E THE OWNER APPOINTED GEOTECHNICAL ENGINEER ALLOWABLE SOIL PRESSURE |
| | <u>HORAGE:</u> DRIVE PINS AND OTHER POWDER-ACTUATED FASTENERS SHALL BE ONE OF THE FOLLOWING INSTALLED STRICT ACCORDANCE WITH THE ICC-ES REPORTS INDICATED AND MANUFACTURER'S INSTRUCTIONS INCLUDING MINIMUM EMBED REQUIREMENTS: "TE SERIES" (0.157" DIAMETER) AS MANUFACTURED BY IT 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. |
| | CRETE: CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 318– CHAPTER 26 AND ACI 301. CONCRETE SHALL ATTAIN A 28–DAY STRENGTH OF fc = 4,000 PSI (4,5 PSI AT ALL CONCRETE EXPOSED TO WEATHER). MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO FOI INTERIOR SLABS SHALL BE BETWEEN 0.40 AND 0.44. ALL CONCRETE SHALL BE EXPOSURE CLASSES F S0, W0, AND C0 PER ACI 318–14 TABLES 19.3.1.1 AND 19.3.2.1 EXCEPT AS NOTED BELOW. ALL CONCRETE EXPOSED TO EARTH (FOUNDATIONS, ETC.): (F0, S0, W0, C1) ALL CONCRETE EXPOSED TO WEATHER: (F1, S0, W0, C1) SEE SPECIFICATIONS FOR SHRINKAGE REDUCING CONCRETE MIX CRITERIA WHERE INDICATED ON DRAWI CONCRETE MIXES SHALL MEET OR EXCEED THE REQUIREMENTS SPECIFIED ABOVE. MIXES SHALL BE SUBMITTED TO THE ENGINEER AND BUILDING OFFICIAL FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE AND SHALL INCLUDE THE AMOUNTS OF CEMENT, CEMENTITOUS MATERIAL, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES, AS WELL AS THE WATER-CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 318–14, CHAPTER AND 27. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMAL PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTA |
| | FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, $fy = 60,000$ PSI. GRADE 60 |

General Structural Notes (GSN's)

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 FABRIC SHALL CONFORM TO ASTM A1064.

| 15. | REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANC 315–99 AND 318–14. LAP ALL CONTINUOUS REINFORCEMENT IN ACCORDANCE WITH "RI SPLICE AND DEVELOPMENT LENGTH SCHEDULE" OF 10/S3.1. PROVIDE CORNER BARS AT FOOTING INTERSECTIONS. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF AND ENDS. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BE OTHERWISE NOTED ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER. |
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| 16. | CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS: FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH |
| 17. | BONDING AGENT SHALL BE "MASTEREMACO ADH 326" BY BASF CORPORATION. OR EQUIN SHALL BE USED WHERE NEW CONCRETE IS PLACED AGAINST HARDENED CONCRETE. PL/ ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING PREPARATION OF EXISTIN CONCRETE SHALL BE CONSIDERED HARDENED AFTER 56 DAYS. |
| 18. | NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHAI PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. GROUT ST AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (6,000 PSI MINIMUM). |
| <u>WOOI</u> 19. | D:FRAMING LUMBER SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN CONFW.C.L.I.B. STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17 OR W.W.P.A. WEGRADING RULES. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:PLATES, LEDGERS & MISC.LIGHT FRAMING:JOISTS, BEAMS & POSTS:DOUGLAS FIR NO. 1MIN. BASIC DESIGN STRESS, $F_b = 1000 \text{ PS}$ $F_c = 1500 \text{ PS}$ |
| 20 | $ \begin{array}{llllllllllllllllllllllllllllllllllll$ |
| 21. | ENGINEERED WOOD I-JOISTS SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WI MANUFACTURER'S INSTRUCTIONS. ALL NECESSARY BRIDGING, BLOCKING, BLOCKING PANEL ETC., SHALL BE DETAILED AND FURNISHED BY THE MANUFACTURER. PERMANENT AND TE BRIDGING SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS. HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH ENGINEERED WOO PROVIDED. DESIGN SHOWN ON THE DRAWINGS IS BASED ON RESIDENTIAL JOISTS MANUFA WEYERHAUSER IN ACCORDANCE WITH ICC-ES REPORT NO. ESR-1153. ALTERNATE ENGINE I-JOISTS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE STRUCTURAL ENGINE |

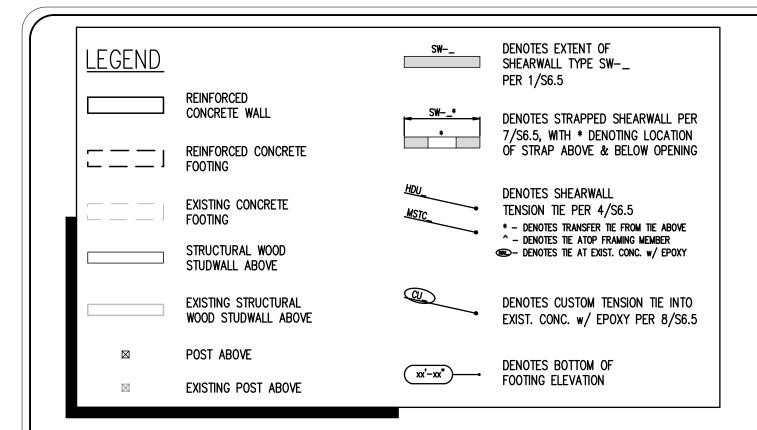
| | | | Minimum Connectors | and Fasteners for Wo | oa Members |
|--|---|---|--|---|---|
| | 315-99 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT IN ACCORDANCE WITH "REINFORCEMENT | A. ALL WOOD FRAMING DETAILS SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE | DESCRIPTION OF BUILDING ELEMENT | | SPACING & LOCATION |
| | 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. | 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 | JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER | $3-8d$ COMMON ($2\frac{1}{2}$ " x 0.131"); or 3-10d BOX (3 " x 0.128"); or 3-3" x 0.131" NAILS; or | · · · · |
| | FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | UNLESS NOTED OTHERWISE NOTED. INSTALL SOLID BLOCKING FOR WOOD COLUMN THROUGH | TRUSS NOT AT THE WALL TOP | $2-3^{"} \times 0.131^{"}$ NAILS $2-3^{"} \times 14$ GAGE STAPLES | TOENAIL |
| | SHALL BE USED WHERE NEW CONCRETE IS PLACED AGAINST HARDENED CONCRETE. PLACE IN STRICT | BELOW WITH 16d NAILS @ 12" oc STAGGERED OR BOLTED TO CONCRETE WITH 5%"Ø ANCHOR BOLTS @ 4'0" oc PER IBC SECTION 2308.6 (EMBED 7"), UNLESS OTHERWISE NOTED. 3" x 3" | FLAT BLOCKING TO TRUSS AND | 3–3" x 0.131" NAILS 3–3" x 14 GAGE STAPLES | |
| | . NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND | INSTALLED PER AF&PA SDPWS-2008 SECTION 4.3.6.4.3. INDIVIDUAL MEMBERS OF BUILT-UP | WEB FILLER | 3" x 14 GAGE STAPLES @ 6" oc | |
| | <u>D:</u> | 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 | | 3–10d BOX (3" x 0.128"); or 3–3" x 0.131" NAILS; or | |
| | 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 UIGHT FRAMING:DOUGLAS FIR NO. 3 OR STUD GRADE MIN. BASIC DESIGN STRESS, $F_b = 525$ PSI, $E = 1400$ KSI | 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 | PARALLEL RAFTER, LAPS OVER PARTITION (NO THRUST) (SEE | 4–10d BOX (3" x 0.128"); or 4–3" x 0.131" NAILS; or | FACE NAIL |
| | JOISTS, BEAMS & POSTS: DOUGLAS FIR NO. 1 MIN. BASIC DESIGN STRESS, $F_b = 1000$ PSI, $E = 1700$ KSI | SOLID BLOCKING ALLOW $\%$ " SPACING AT ALL PANEL EDGES AND ENDS OF LOOR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d@12"oc. IN ACCORDANCE WITH IBC | | PER TABLE 2308.7.3.1 | |
| |). 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 VENNER LUMBER (LVL, LAMINATED STRAND LUMBER (LSL), OR PARALLEL STRAND LUMBER | 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 | 5. COLLAR TIE TO RAFTER | 4–10d BOX (3" x 0.128"); or 4–3" x 0.131" NAILS; or | FACE NAIL |
| | $ \begin{array}{llllllllllllllllllllllllllllllllllll$ | 29. EPOXY-GROUTED RODS OR REBAR TO CONCRETE SPECIFIED ON THE DRAWINGS SHALL BE ONE OF THE FOLLOWING INSTALLED IN STRICT ACCORDANCE WITH THE ICC-ES REPORTS INDICATED AND MANUFACTURER'S INSTRUCTIONS INCLUDING MINIMUM EMBED REQUIREMENTS: "SET-XP" AS | PLATE (SEE 2308.7.5, TABLE | $3-16d BOX (3\frac{1}{2}^{"} \times 0.135");$ or $4-10d BOX (3" \times 0.128");$ or $4-3" \times 0.131" NAILS;$ or | TOENAIL |
| | BRIDGING SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH ENGINEERED WOOD I-JOISTS PROVIDED. DESIGN SHOWN ON THE DRAWINGS IS BASED ON RESIDENTIAL JOISTS MANUFACTURED BY WEYERHAUSER IN ACCORDANCE WITH ICC-ES REPORT NO. ESR-1153. ALTERNATE ENGINEERED WOOD I-JOISTS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD | MANUFACTURED BY HILTI, INC. (ICC-ES NO. 3187), 'SAFE-SET' INSTALLATION WITH HOLLOW CARBIDE DRILL BIT IS PERMITTED; OR 'PURE110+'' AS MANUFACTURED BY DEWALT/POWERS (ICC-ES NO. 3298). SUBSTITUTES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH ICC-ES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. IN ADDITION, SUBSTITUTIONS SHALL MEET ICC-ES ACCEPTANCE CRITERIA AC308. SPECIAL INSPECTION OF EPOXY-GROUTED ANCHOR INSTALLATION IS REQUIRED. EPOXY GROUTED RODS OR REBAR SHALL NOT BE USED AS SUBSTITUTES FOR | OR HIP RAFTERS; OR ROOF | 3—10d BOX (3" x 0.128"); or 3—3" x 0.131 NAILS; or 3—3" x 14 GAGE STAPES, 况6" CROWN | |
| | STANDARDS IN ACCORDANCE WITH IBC 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 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-VR | STRUCTURAL ENGINEER. NOTIFY ENGINEER IF ANCHOR LOCATIONS CONFLICT WITH REINFORCING STEEL – DO NOT CUT REINFORCING OR REDUCE EMBEDMENT DEPTHS WITHOUT PRIOR APPROVAL. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY CERTIFIED PERSONNEL IN CONFORMANCE TO ACI 318–14 SECTION 17.8.2.2. | | 3–16d BOX $(3\frac{1}{2}^{"} \times 0.135")$; or 4–10d BOX $(3" \times 0.128")$; or 4–3" x 0.131 NAILS; or 4–3" x 14 GAGE STAPES, $\frac{7}{16}$ " CROWN | |
| | GLUED LAMINATED MEMBERS EXPOSED TO WEATHER OR MOISTURE SHALL BE TREATED WITH A NON-CORROSIVE, APPROVED PRESERVATIVE. | KWIK BOLT TZ ANCHORS AS MANUFACTURED BY HILTI, INC. AND INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. 1917, OR | | 10d BOX (3" x 0.128"); or | |
| | ACCORDANCE WITH ANSI/TPI I—2007 AND IBC SECTION 2303.4 FOR THE SPANS AND CONDITIONS SHOWN ON THE DRAWINGS. DESIGN LOADS SHALL BE AS FOLLOWS: | | 9 STUD TO STUD AND ABUTTING STUDS | 3-3" x 14 GAGE STAPLES, 7/6" CROWN | 16" og FACE NAU |
| | BOTTOM CHORD LIVE LOAD0 PSFTOP CHORD DEAD LOAD17.5 PSFBOTTOM CHORD DEAD LOAD2.5 PSF | | | 16d BOX (3½" x 0.135")"; or 3" x 0.131" NAILS; or | 12" oc FACE NAIL |
| SIGE CONVERTING 5 FOLDORE 4-00 FEB 5 - 501 LILL STATES DEPENDENCE IN LASS (Second LILL STATES DEPENDENCE IN | PLUMBING, MECHANICAL UNITS, DUCTS, AND/OR OTHER MISCELLANEOUS ITEMS WITH THE CONTRACTOR PRIOR TO TRUSS FABRICATION. THE TRUSS MANUFACTURER SHALL DESIGN TRUSSES TO SUPPORT ALL LOADS ASSOCIATED WITH SUCH ITEMS. THE TRUSS SHOP DRAWINGS SHALL INCLUDE ALL DESIGN LOADS | | (2" TO 2" HDR.) | 16d BOX (3½" x 0.135") | FACE NAIL 12" oc EA. EDGE, FACE NAIL |
| | WOOD TRUSSES SHALL UTILIZE APPROVED CONNECTOR PLATES (GANGNAIL OR EQUAL). SHOP DRAWINGS | | | 4-10d BOX (3" x 0.128") | |
| | 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 | | | 10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or 3" x 14 GAGE STAPLES, 7/6" CROWN | 12" oc FACE NAIL |
| | DETAILS FOR ALL TEMPORARY AND PERMANENT TRUSS BRACING AND BRIDGING. | | | 12–10d BOX (3" x 0.128"); or 12–3" x 0.131" NAILS; or | JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EA. |
| A. Monty State Market, Subject Web, Web, Web, Subject Web, Web, Web, Web, Web, Web, Web, Web, | STRAND BOARD (OSB) IN CONFORMANCE WITH IBC 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. | | BAND JOIST, OR BLOCKING NOT AT | 16d BOX (3½" x 0.135")"; or 3" x 0.131" NAILS; or | |
| CHOULD AND CONTINUENCESS (PROLIDE HIGH MODICINE (SM) INFORMATING INFORMATION INFORM | (NOMINAL) WITH SPAN RATING OF 21/6; WITH 8d @ 6" oc PANEL NAILING (APPLIES TO ALL SHEATHING | N* 1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS AND VERIFY PLACEMENT. X ACI 318 CH. 20, 25.2, 25.3, 26.5.1-26.5.3 2. REINFORCING BAR WELDING: X 26.5.1-26.5.3 | BAND JOIST, OR BLOCKING AT | 3–16d BOX (3½" x 0.135"); or 4–3" x 0.131" NAILS; or | 16" oc FACE NAIL |
| PRESERVATIVES WITH AMAGENE CARGE STALL DUR DE L'ESD. (LIE LUMINATED MERRES STALL DE TREATED WITH A NON-CORRECTING AUXABRES STALL DE TREATED WITH A NON-CORRECTING STALL AUXABRES STALL DESTINGTONG WIER DE TREATED AUXABRES NONCOUNCE. THIT HE MANAFARDRES IS INDUBRY TO AUXABRE AUXABRES STALL DESTINGTONG WIER DE TREATED AUXABRES NONCOUNCE. THIT HE MANAFARDRES IS INDUBRY TO AUXABRE AUXABRES STALL DESTINGTONG WIER DE TREATED AUXABRES NOT DE TREATED WIENDERS STALL DESTINGTONG WIER DE TREATED AUXABRES NOT DE TREATED WIENDERS STALL DESTINGTONG WIER DE TREATED AUXABRES NOT DE TREATED WIENDERS STALL DESTINGTONG WIER DE TREATED AUXABRES NOT DE TREATED WIENDERS STALL DESTINGTES CONCOUNCE IN THE MANAFARDRES IS INDUBRY TO AUXABRE AUXABRES NOT DE TREATED WIENDERS STALL DESTINGTED TREATED AUXABRES NOT DE TREATED WIENDERS STALL DE VIENDERS STALL DE VIENDERS STALL DE VIENDERS STALL DE VIENDERS STALL DE VI | GROUND AND CONTINUOUSLY PROTECTED FROM MOISTURE (INTERIOR LOCATIONS) SHALL BE PRESSURE-TREATED WITH DOT SODIUM BORATE (SBX) WITHOUT Nasio2. 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 | N OTHER THAN ASTM A 706. B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND C. INSPECT ALL OTHER WELDS X X X | 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 | TOENAIL |
| Integer connectors called out py Letters And Numbers Shall be "Strong-Tic" by Siles And A. Image: Connectors called out py Letters And Strate Fragments | 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 | YES CONCRETE MEMBERS. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS CONCRETE MEMBERS. X X ACI 318: 17.8.2.4 ACI 318:17.8.2 | | 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 | END NAIL |
| BOLTS IN WOOD MEMBERS SHALL CONFORM TO A STIL MASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. ALL SHIMS SHALL BE SEASONED AND DRED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED. ALL TIMBER CONNECTORS IN CONTACT WITH PRESSURE —THEATED WOOD THAT USED PRESERVATIVE CHEMICALS OTHER TWAN DOT SOULM BORATE (SBX) WITHOUT NGSID ₂ SHALL BE MANUFACTURED FROM TEMERBANKE AND TECHNOLES. ALL TIMBER CONNECTORS IN CONTACT WITH PRESSURE—THEATED WOOD THAT USED PRESERVATIVE CHEMICALS OTHER THAN DOT SOULM BORATE (SBX) WITHOUT NGSID ₂ SHALL BE MANUFACTURED FROM TEMERBANKE AND TECHNOLES. ALL TIMBER CONNECTORS IN CONTACT WITH PRESSURE—THEATED WOOD THAT USED PRESERVATIVE CHEMICALS OTHER THAN DOT SOULM BORATE (SBX) WITHOUT NGSID ₂ SHALL BE MANUFACTURED FROM TAU STRESSING ORDER: AND STRESSING FORCE: AND ALL TRANSFERST OR CREATE STRESSING TORCE: AND CALVANZED PER ASTM AESS, OR TYPE 304 OR 316 STANLESS STEEL CALVANZED PER ASTM AESS, OR CREATE, STAILES STEEL ASTM AESS OR CREATE STRESSING TORCES, AND ALTERNATIVELY, CONNECTORS, AND HOT DIP GALVANIZED FRASTR AISS SHALL BE USED WITH GALVANIZED CONNECTORS. WITH GALVANIZED CONNECTORS. MITH GALVANIZED CONNECTORS. MITH GALVANIZED CONNECTORS, AND HOT DIP GALVANIZED FASTENERS SHALL BE USED WITH GALVANIZED CONNECTORS. MITH G | 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 | N* 5. VERIFY USE OF REQUIRED DESIGN MIX. X ACI 318: CH. 19, 26.4.3, 26.4.4 1904.1, 1904.2, 1908.3 6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM X ASTM C 172 ASTM C 31 AS | 17. TOP OR BOTTOM PLATE TO STUD | 3–10d BOX (3" x 0.128"); or 3–3" x 0.131" NAILS; or | END NAIL |
| CHEMICALS OTHER THAN DOT SODIUM BORATE (SBX) WITHOUT NGSI02 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 N 9. INSPECT PRESTRESSING ENDIDED PRESTRESSING ENDIDED PRESTRESSING FORCES; AND ACTION OF PRESTRESSING FORCES; ACTION OF PRESTR | 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. | AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. ACI 318: 26.4.5, 26.12 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 X ACI 318: 1008.0 | | 3–10d BOX (3" x 0.128"); or 3–3" x 0.131" NAILS; or | FACE NAIL |
| N* CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS. X ACI 318: 26.10.2 20. 1" x 6" SHEATHING TO EACH BEARING 2-10d BOX (3" x 0.128"); or FACE NAIL N* 12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. X ACI 318: 26.10.1(b) 21. 1" x 8" AND WIDER SHEATHING TO 3-8d COMMON (2½" x 0.131"); or FACE NAIL | CHEMICALS OTHER THAN DOT SODIUM BORATE (SBX) WITHOUT $N_{0}SIO_{2}$ 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 STAINLESS STEEL CONNECTORS, AND HOT DIP GALVANIZED FASTENERS PER ASTM A153 SHALL BE | N 9. INSPECT PRESTRESSED CONCRETE FOR: 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 10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS. X ACI 318: CH. 26.8 11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO V ACI 318: CH. 26.8 | 19. 1" BRACE TO EACH STUD AND PLATE | 2–10d BOX (3" x 0.128"); or 2–3" x 0.131" NAILS; or | FACE NAIL |
| FORMED. | USED WITH GALVANIZED CONNECTORS. | N* CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS. X ACI 318: 26.10.2 12. INSPECT FORMWORK FOR SHAPE, LOCATION AND X ACI 318: 26.10.2 | 20. 1" x 6" SHEATHING TO EACH BEARING | | FACE NAIL |
| | | FORMED. | | | FACE NAIL |

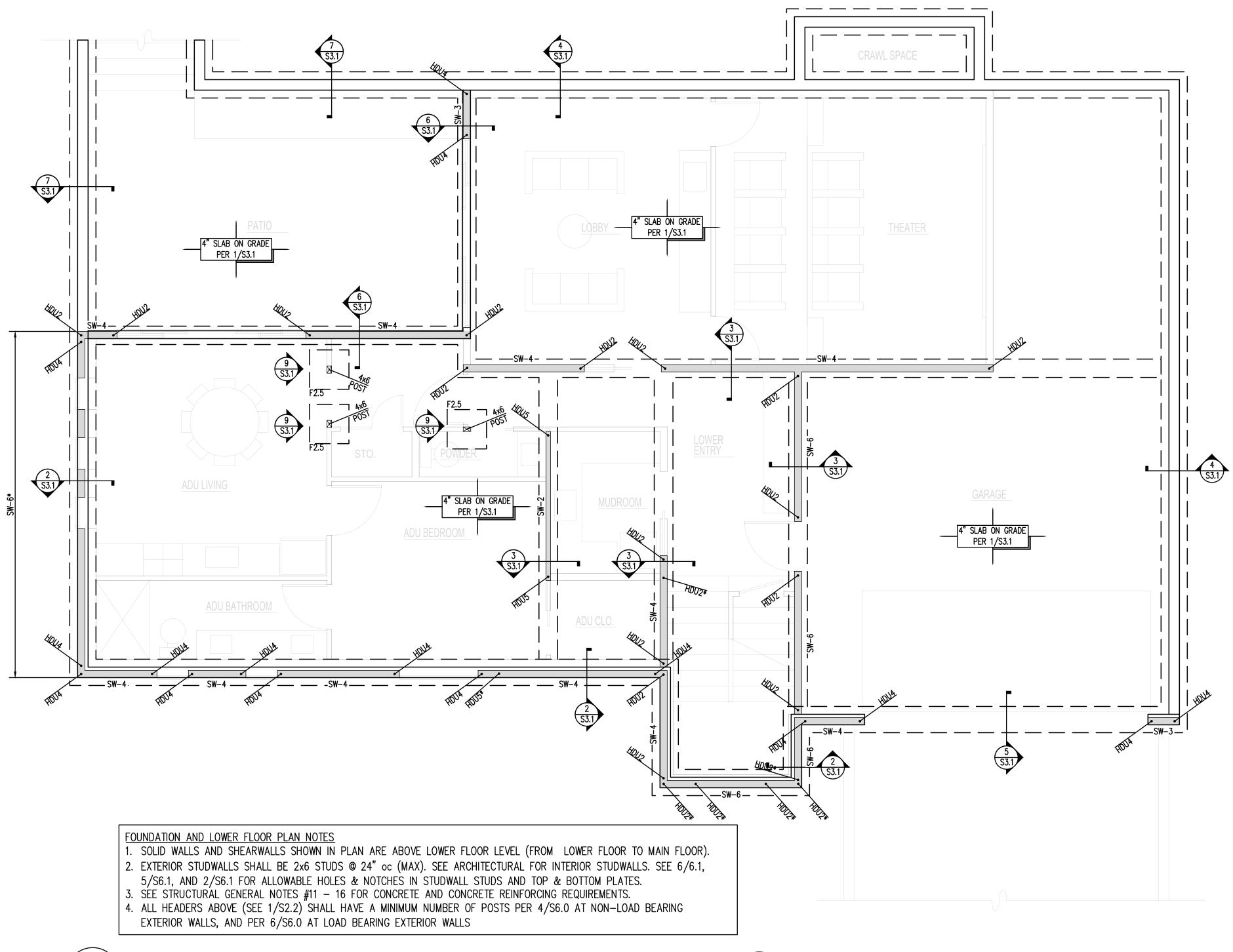
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- 25. AT
- 26. AL
- 27 TI

Minimum Connectors and Fasteners for Wood Members per IBC 2015

| | DESCRIPTION OF | | SPACING & |
|-----|--|--|--|
| | BLDG. ELEMENT | NUMBER AND TYPE OF FASTENERS | LOCATION |
| | | FLOOR | |
| 22. | JOIST TO SILL, TOP PLATE, OR GIRDER | 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, 7 ₆ " CROWN | 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 |
| 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 |
| 25. | 2" SUBFLOOR TO JOIST OR GIRDER | 2-16d COMMON (3½" x 0.162") | FACE NAIL |
| 26. | 2" PLANKS (PLANK & BEAM — FLOOR & ROOF) | 2-16d COMMON (3½" x 0.162")" | EA. BEARING, FACE NAIL |
| 27. | BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS | 20d COMMON (4" x 0.192") | 32" o.c., FACE NAIL TOP & BOT STAGGERED ON OPPOSITE SIDES |
| | | 10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or 3" x 14 GAGE STAPLES, 7/6" CROWN | 24" o.c., FACE NAIL AT TOP & BOT. STAGGERED ON OPP. SIDES |
| | | 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, 7/6" CROWN | ENDS AND AT EACH SPLICE, 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, ¾6" CROWN | EACH JOIST OR RAFTER, FACE NAIL |
| 29. | JOIST TO BAND JOIST OR RIM JOIST | 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, ¾" CROWN | end nail |
| 30. | Bridging or Blocking To Joist, Rafter, or Truss | 2-8d COMMON (2½" 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, 7/6" CROWN | EACH END, TOENAIL |

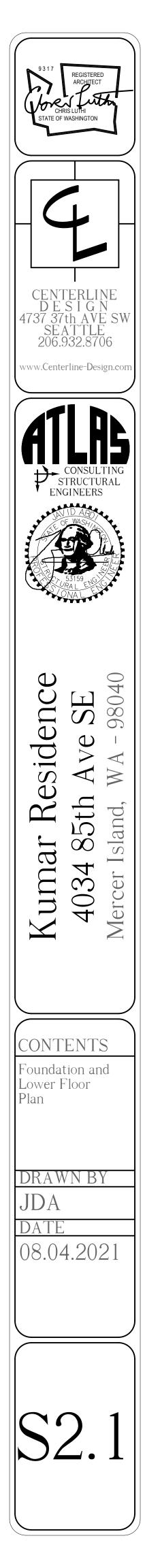
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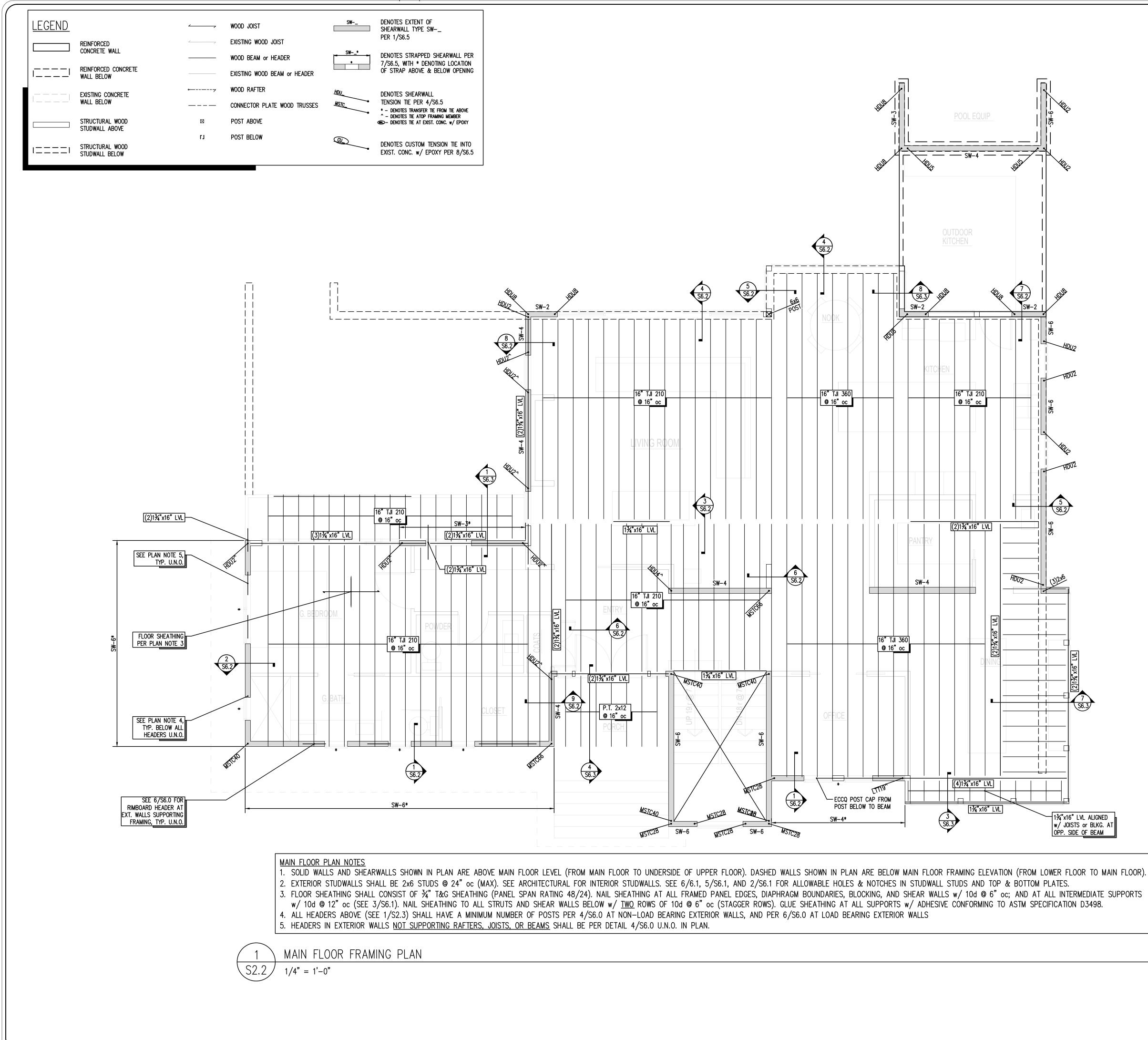


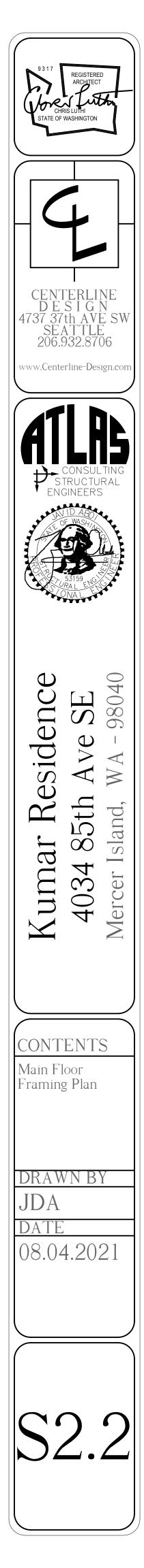


| | FOUNDATION AND LOWER FLOOR PLAN NOTES |
|--------------------|---|
| | 1. SOLID WALLS AND SHEARWALLS SHOWN IN PLAN ARE ABOVE LOWER FLO |
| | 2. EXTERIOR STUDWALLS SHALL BE 2x6 STUDS @ 24" oc (MAX). SEE ARCI |
| | 5/S6.1, AND 2/S6.1 FOR ALLOWABLE HOLES & NOTCHES IN STUDWALL |
| | 3. SEE STRUCTURAL GENERAL NOTES #11 – 16 FOR CONCRETE AND CONC |
| | 4. ALL HEADERS ABOVE (SEE 1/S2.2) SHALL HAVE A MINIMUM NUMBER OF |
| | EXTERIOR WALLS, AND PER 6/S6.0 AT LOAD BEARING EXTERIOR WALLS |
| | |
| $\left(1 \right)$ | LOWER FLOOR AND FOUNDATION PLAN |
| S2.1 | 1/4" = 1'-0" |
| | |

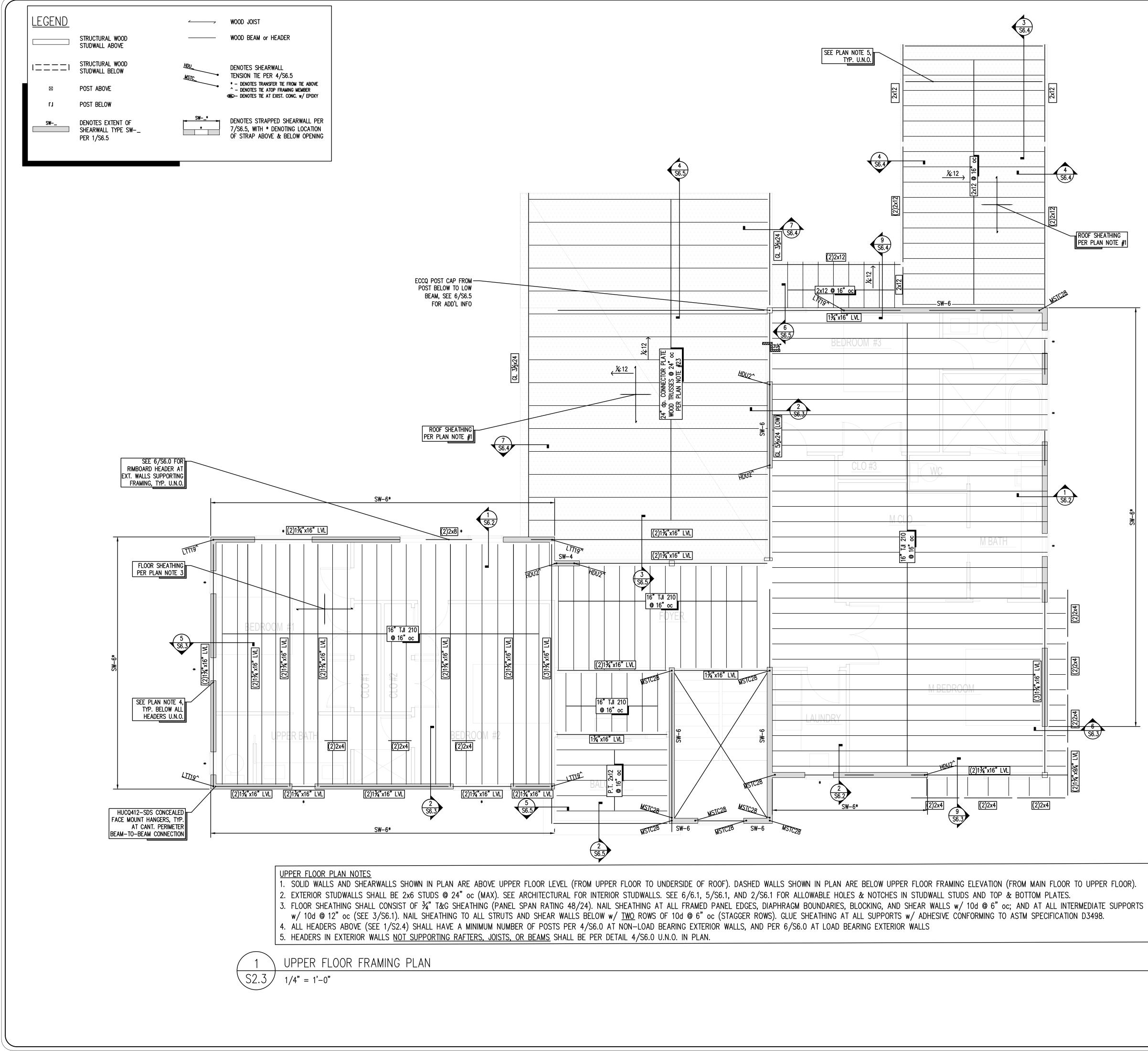
NORTH

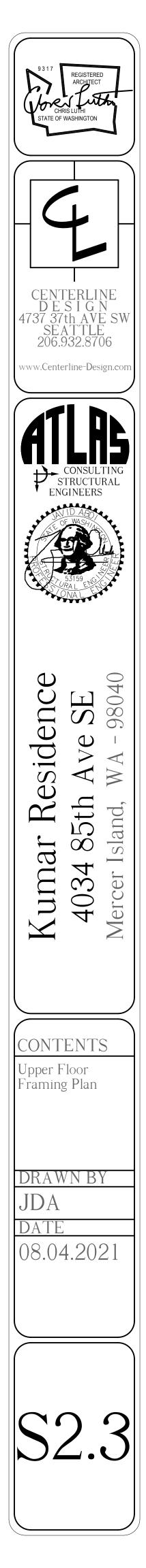














<u>LEGEND</u>

LI

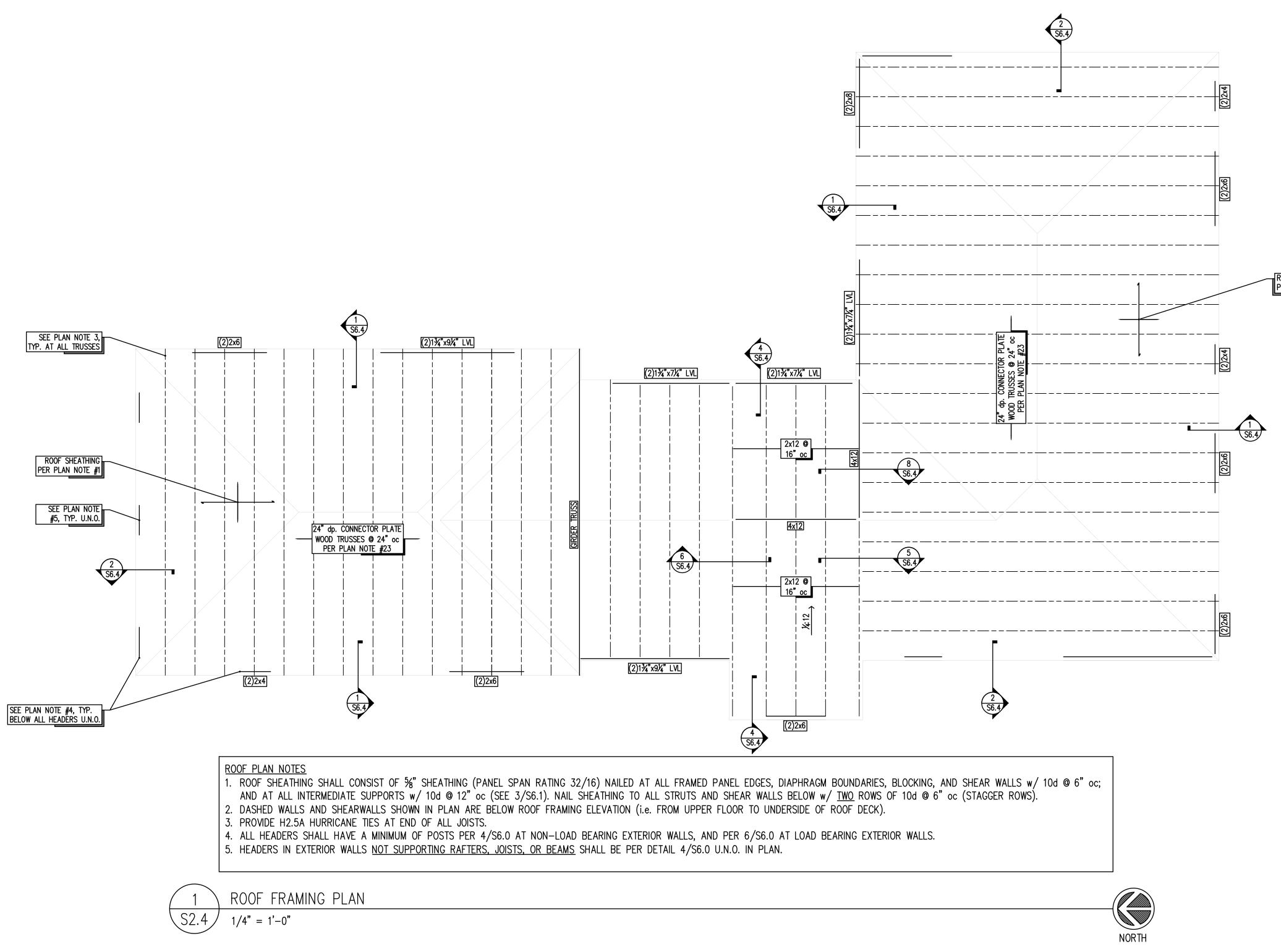
| | STRUCTURAL WOOD |
|----|-----------------|
| '' | STUDWALL BELOW |

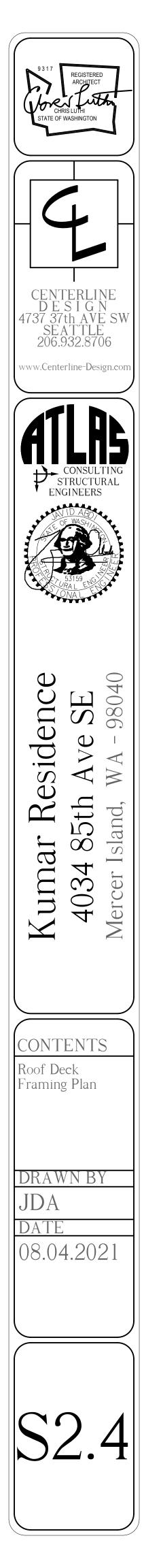
∠ ____ WOOD JOIST

WOOD BEAM or HEADER

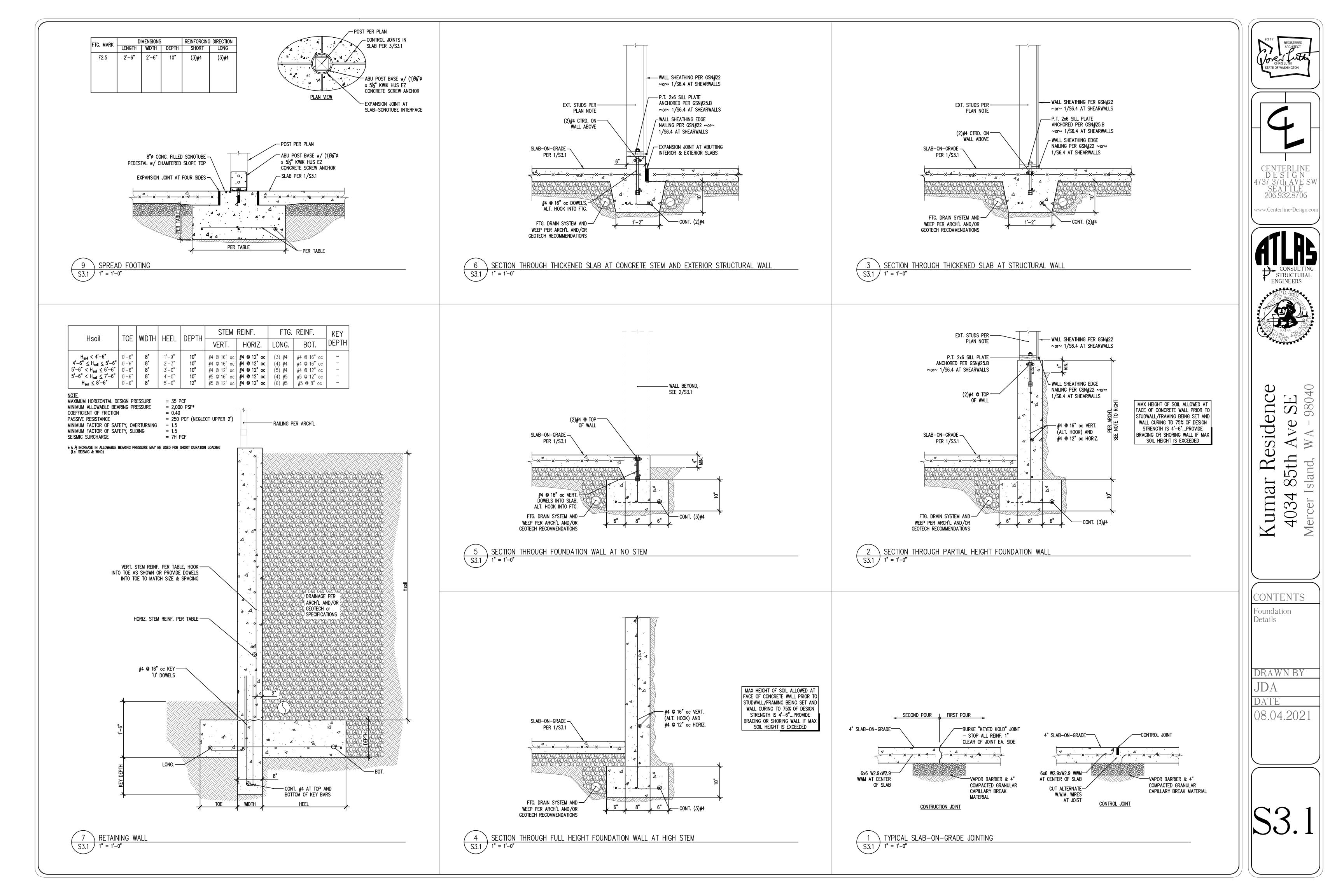
---- CONNECTOR PLATE WOOD TRUSSES

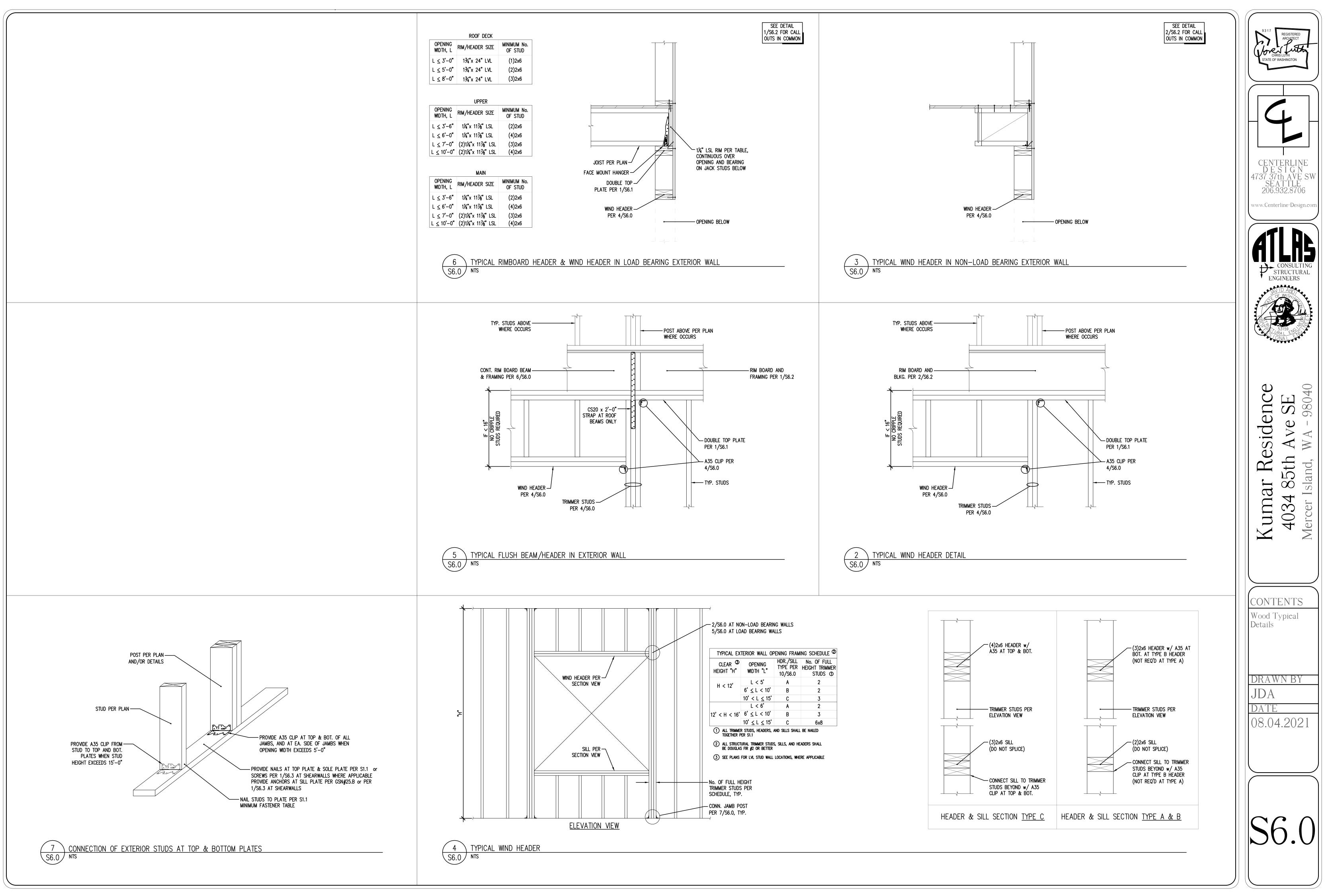
POST BELOW

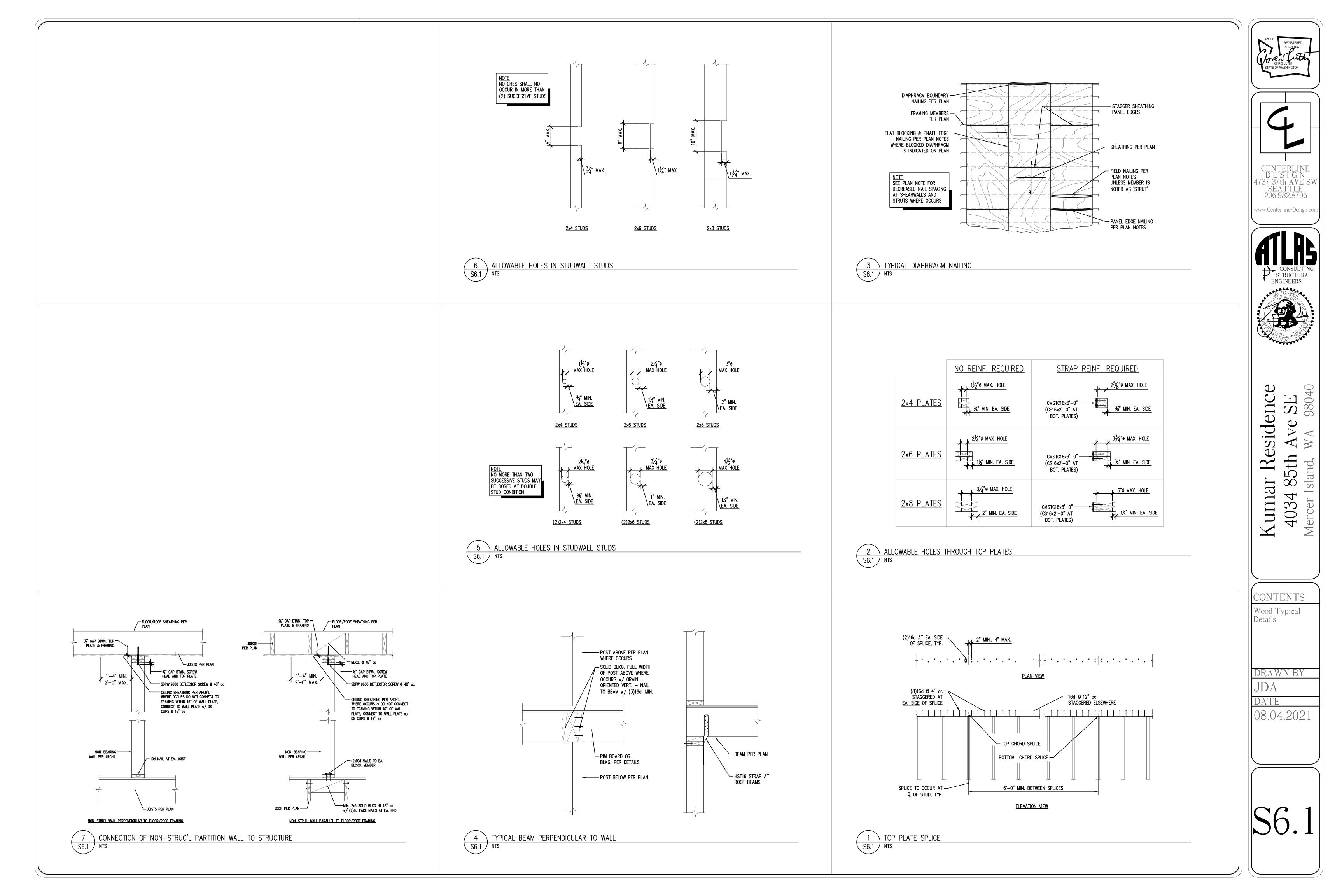


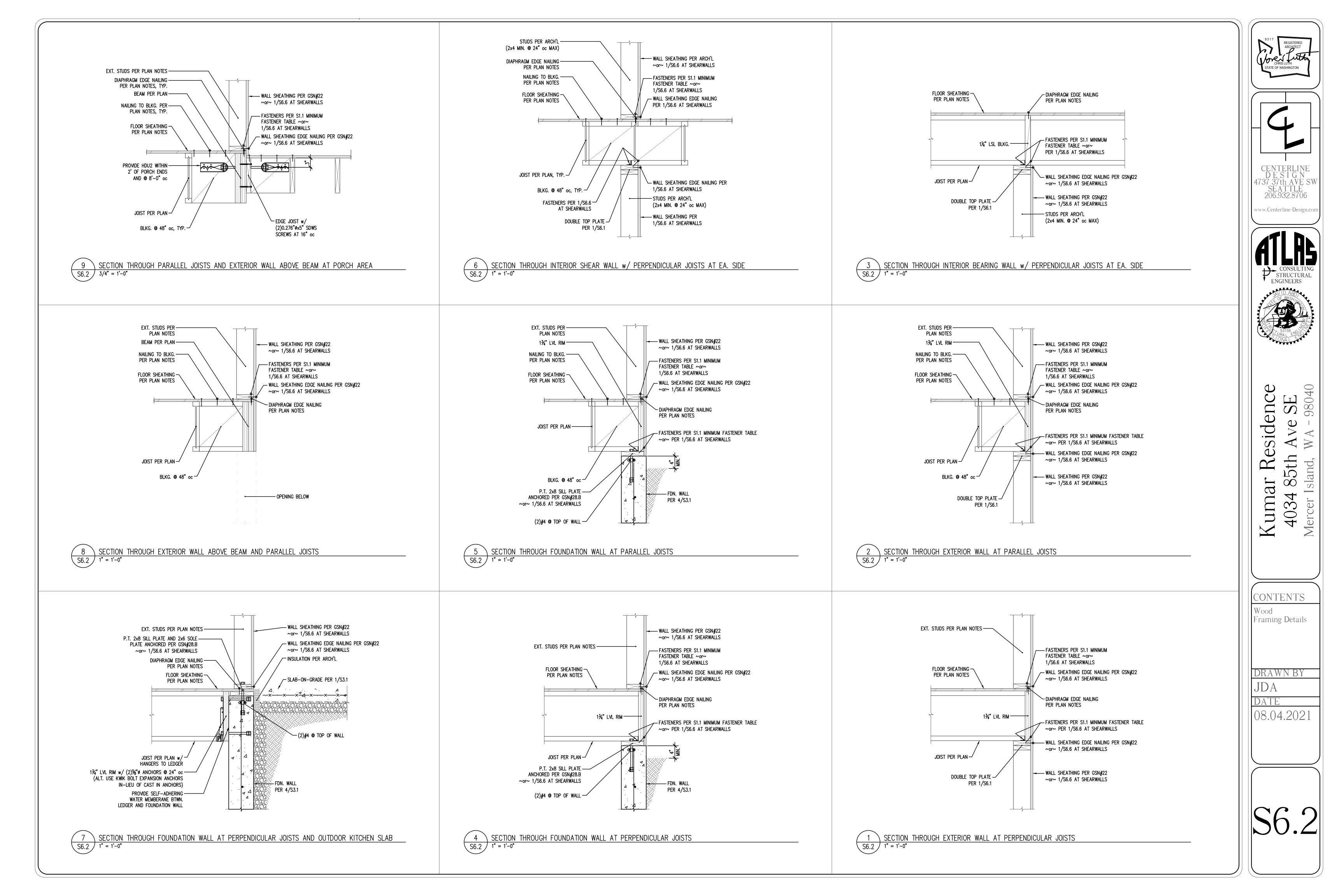


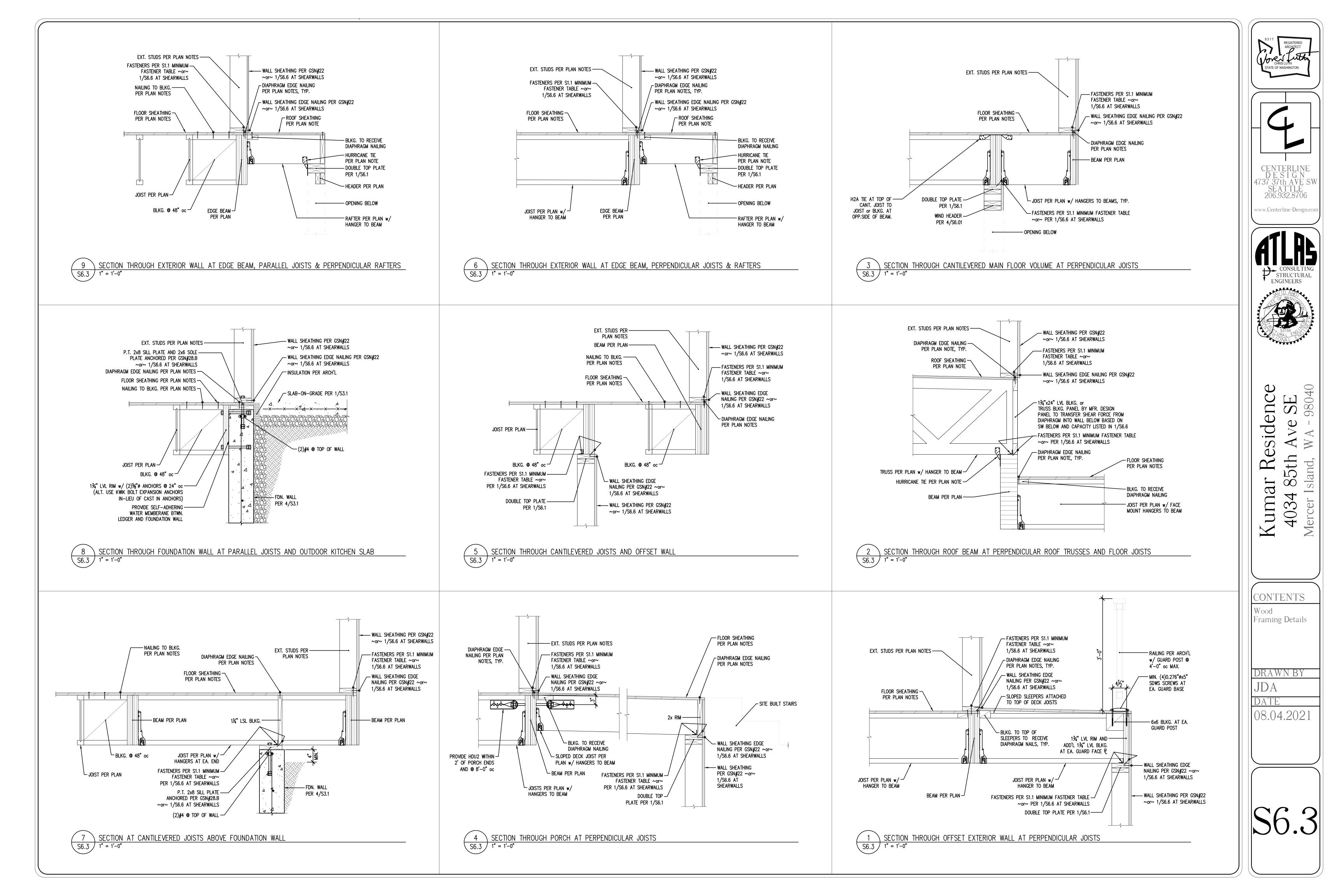
ROOF SHEATHING PER PLAN NOTE #1

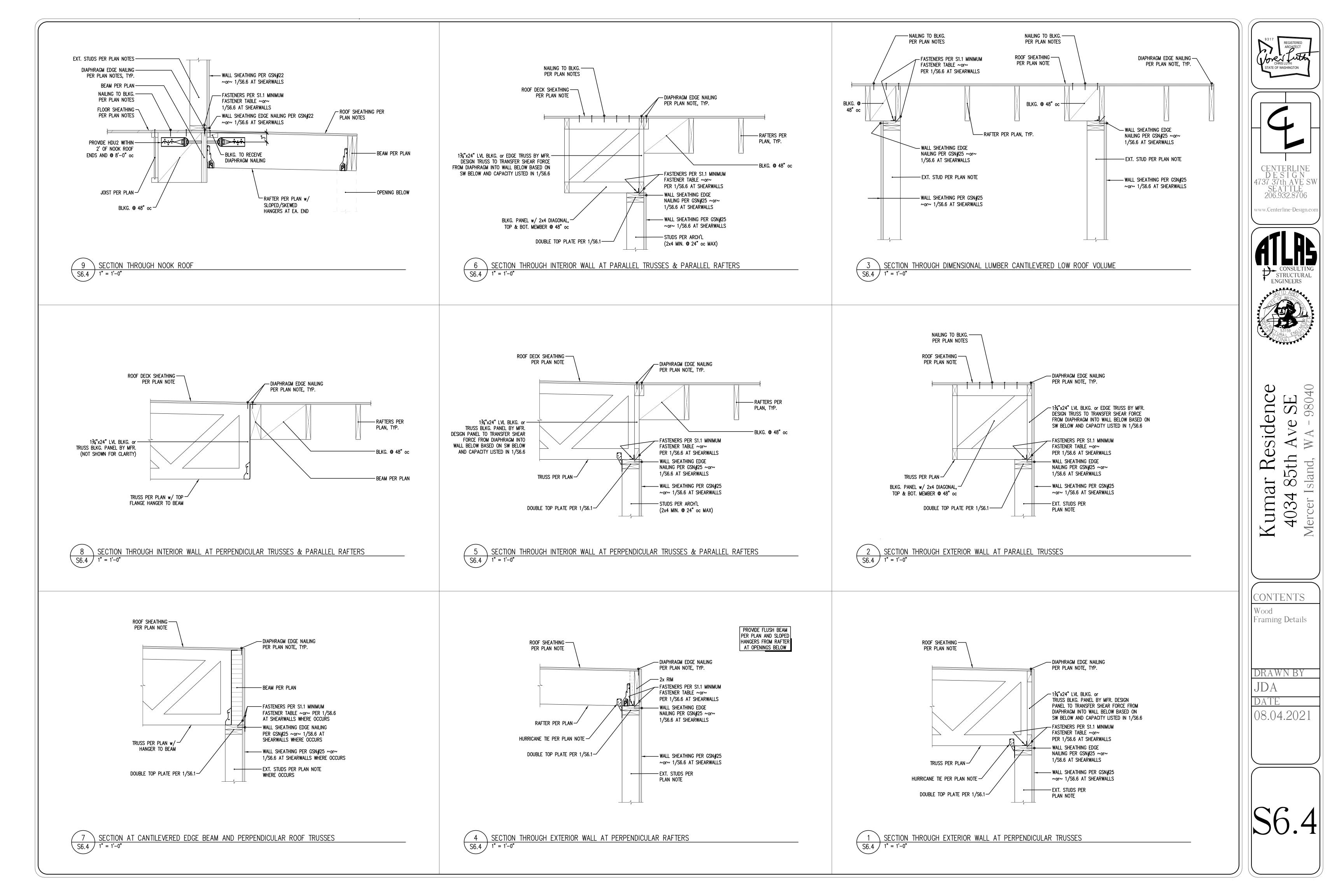




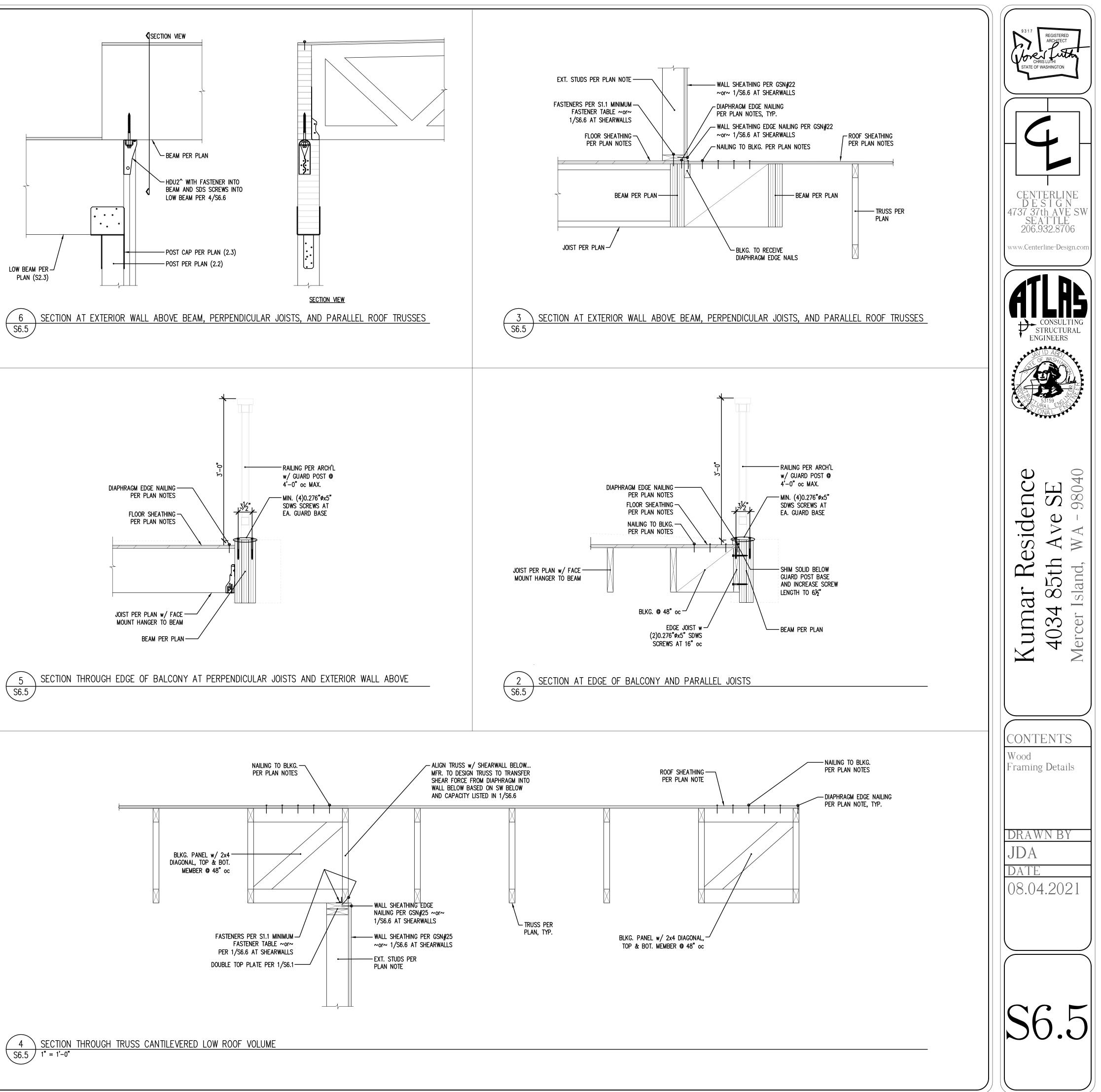


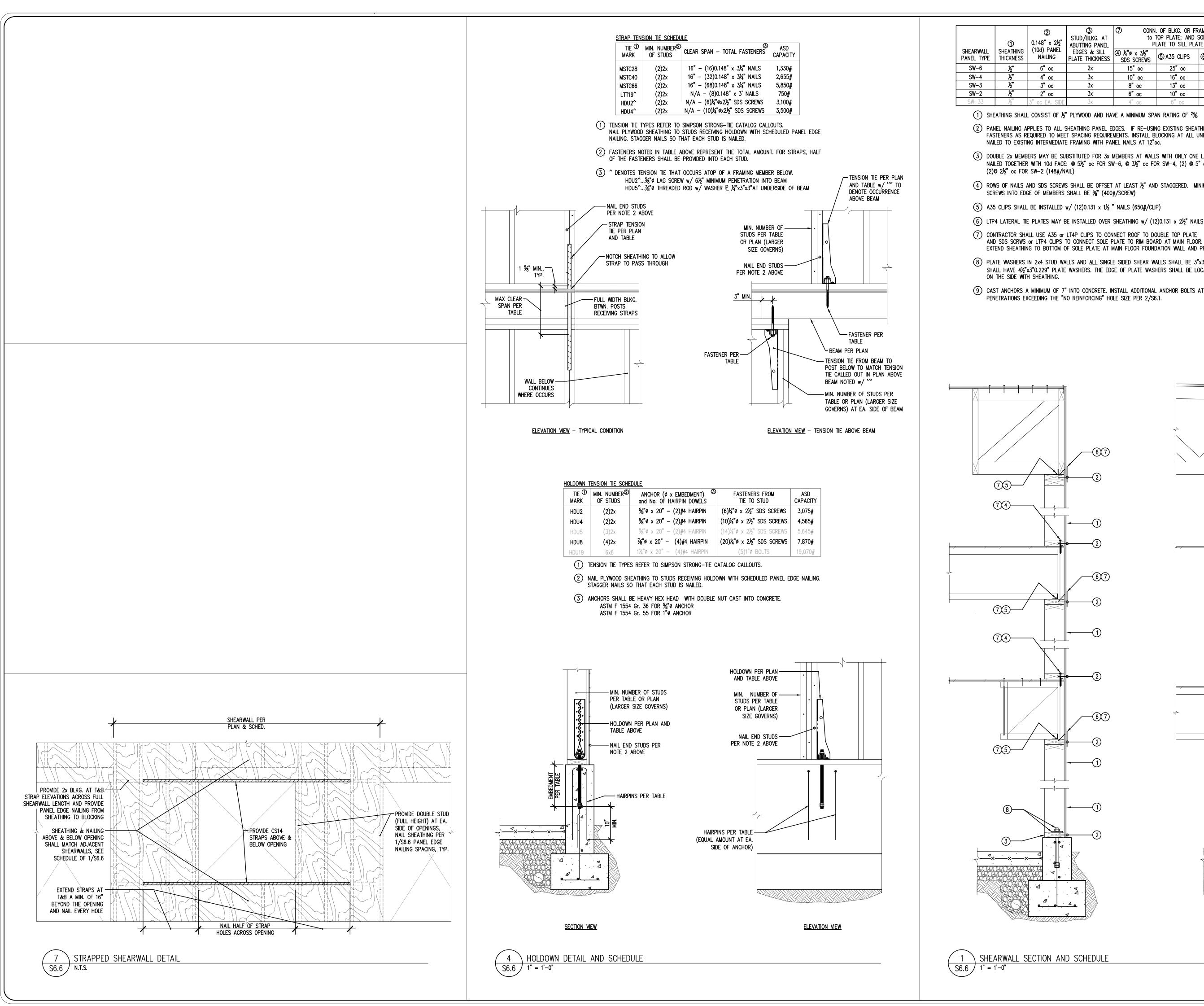






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| ② .148" x 2½" | ③ STUD/BLKG. AT ABUTTING PANEL | CONN. OF BLKG. OR FRAMING to TOP PLATE; AND SOLE PLATE TO SILL PLATE | | | 8 ANC BOLT | s to | ASD CAPACITY, PLF |
|---|--------------------------------------|--|-----------------------------------|--------|------------------|--------------|-------------------------|
| 10d) PANEL EDGES & SILL NAILING PLATE THICKNES | | ④ ¼"ø x 3½" SDS SCREWS | , IS A35 CLIPS (6) LTP4 PLATES | | COI 5%8"ø | NC. 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" oc | Зx | 8" oc | 13" oc | 12" oc | 29" oc | 40" oc | 600 |
| 2" oc | 3x | 6"ос | 10" oc | 9" oc | 23" oc | 31" oc | 770 |
| oc EA. SIDE | 3x | 4" oc | 6" oc | 6" oc | 14" oc | 20" oc | 1200 |

(1) SHEATHING SHALL CONSIST OF $\frac{1}{2}$ " PLYWOOD AND HAVE A MINIMUM SPAN RATING OF $\frac{24}{3}$.

(2) PANEL NAILING APPLIES TO ALL SHEATHING PANEL EDGES. IF RE-USING EXISTING SHEATHING PER NOTE 1 ABOVE, PROVIDE ADDITIONAL FASTENERS AS REQUIRED TO MEET SPACING REQUIREMENTS. INSTALL BLOCKING AT ALL UNFRAMED PANEL EDGES. ENSURE SHEATHING IS

(3) DOUBLE 2x MEMBERS MAY BE SUBSTITUTED FOR 3x MEMBERS AT WALLS WITH ONLY ONE LAYER OF SHEATHING. 2x MEMBERS SHALL BE NAILED TOGETHER WITH 10d FACE: @ 5½" oc FOR SW-6, @ 3½" oc FOR SW-4, (2) @ 5" oc FOR SW-3, (2)@ 4" oc FOR SW-2, AND

(4) ROWS OF NAILS AND SDS SCREWS SHALL BE OFFSET AT LEAST $\frac{1}{2}$ " AND STAGGERED. MINIMUM EDGE DISTANCE FOR NAILS AND SDS

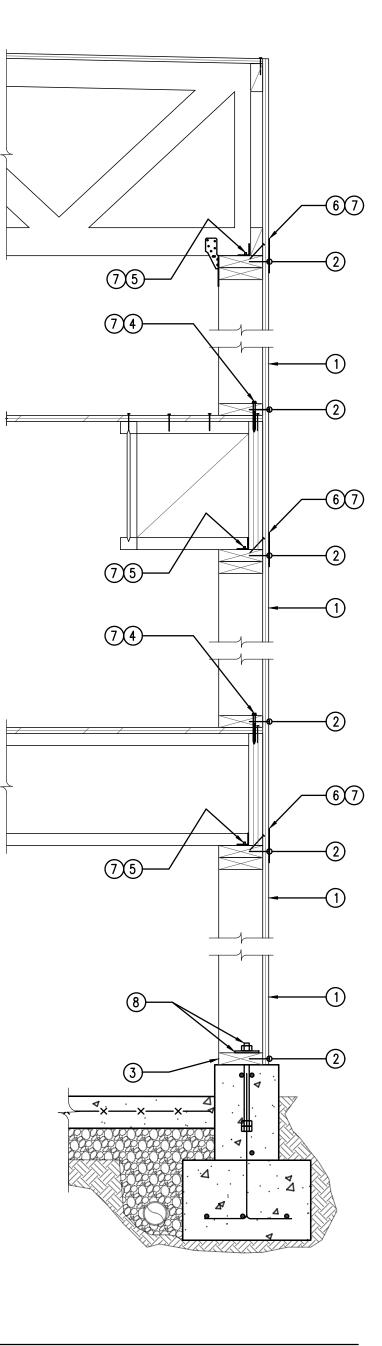
6 LTP4 LATERAL TIE PLATES MAY BE INSTALLED OVER SHEATHING w/ (12)0.131 x 2½" NAILS (625#/CLIP)

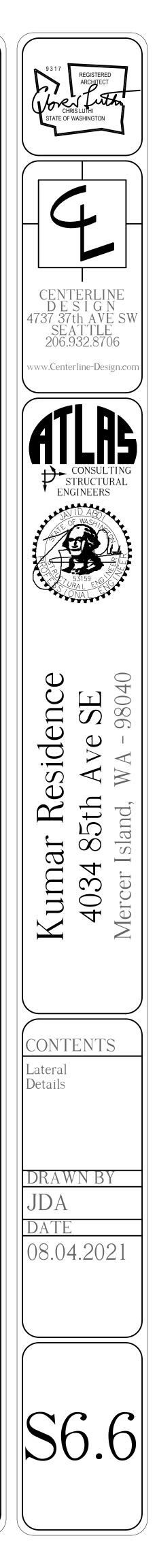
(7) CONTRACTOR SHALL USE A35 or LT4P CLIPS TO CONNECT ROOF TO DOUBLE TOP PLATE

EXTEND SHEATHING TO BOTTOM OF SOLE PLATE AT MAIN FLOOR FOUNDATION WALL AND PROVIDE EDGE FASTENING AS NOTED IN TABLE. (8) PLATE WASHERS IN 2x4 STUD WALLS AND ALL SINGLE SIDED SHEAR WALLS SHALL BE 3"x3"x0.229". DOUBLE SIDED 2x6 SHEAR WALLS

Shall have 4½"x3"0.229" Plate Washers. The edge of plate Washers Shall be located within ½" of the edge of bottom plate

(9) CAST ANCHORS A MINIMUM OF 7" INTO CONCRETE. INSTALL ADDITIONAL ANCHOR BOLTS AT EACH SIDE OF PLATE BREAKS AND





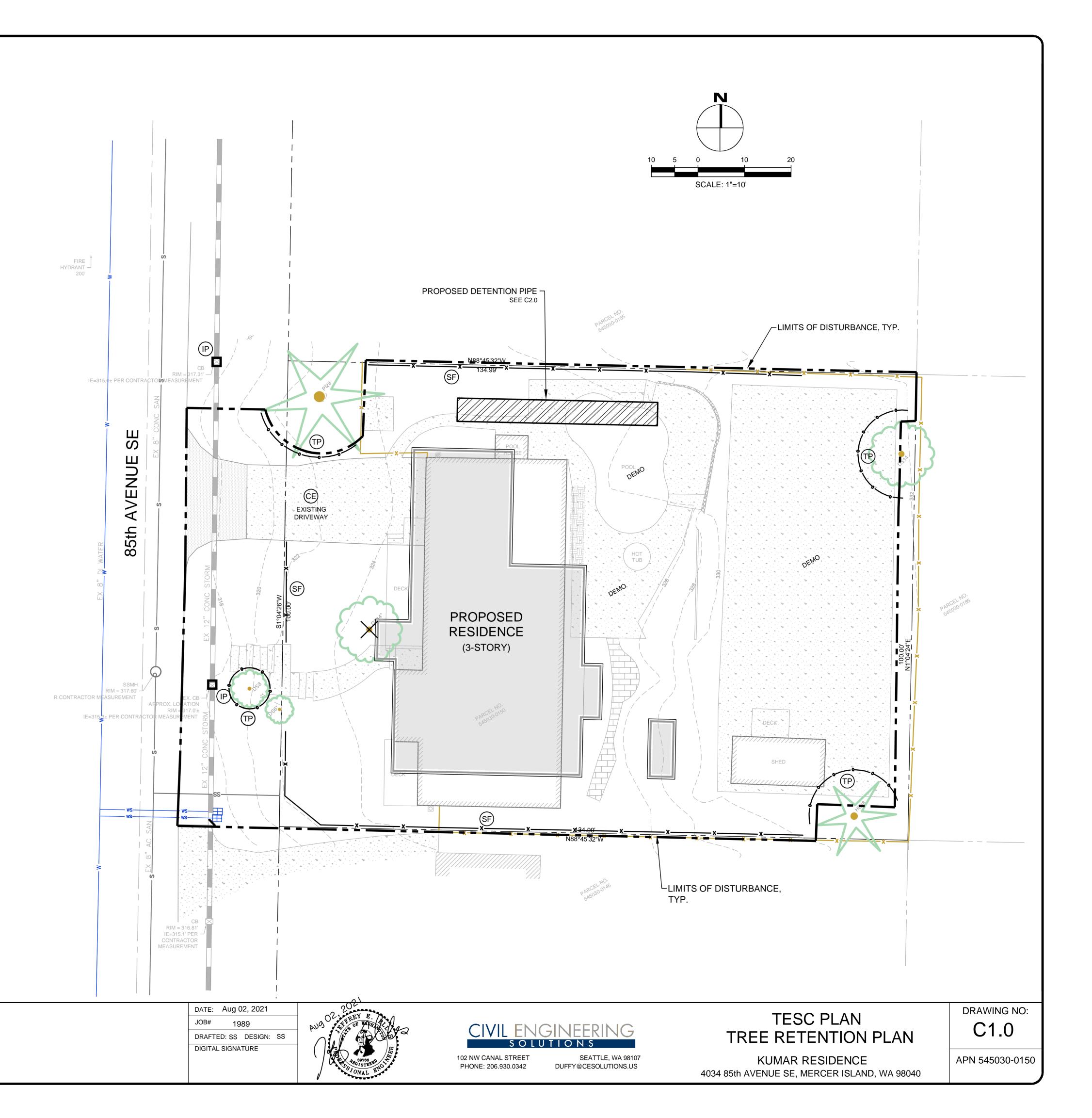
EROSION CONTROL LEGEND

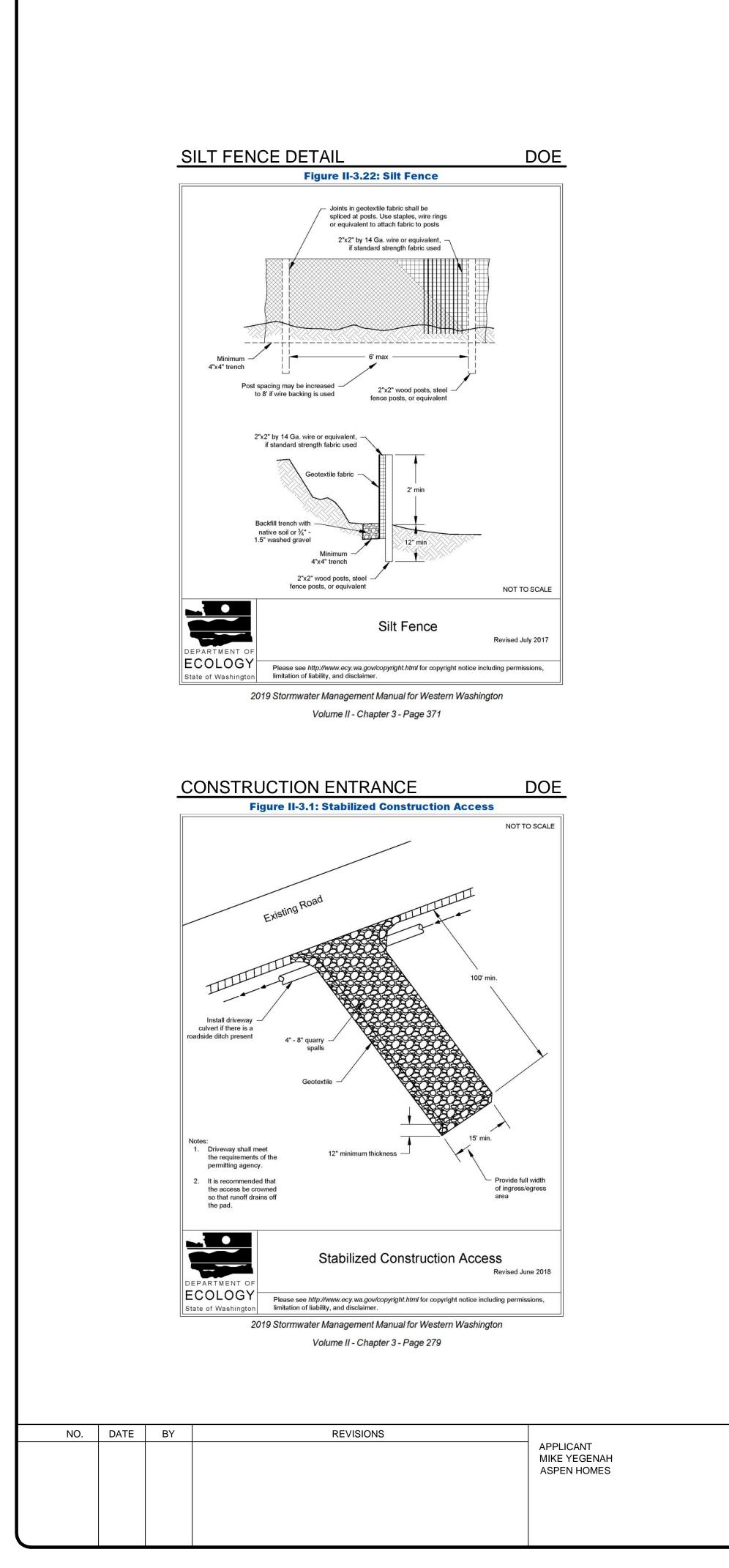
| FILTER FABRIC FENCE (SILT FENCE) | CK E.03 | SF | xx |
|---|---------|------|---------------|
| STABILIZED CONSTRUCTION ENTRANCE | CK E.01 | CE | |
| CATCH BASIN INLET PROTECTION | CK D.21 | (IP) | |
| INTERCEPTOR SWALE SEE COR DWG 504, TYPE A TEMPORARY SWALE | | (IS) | ← ← |
| TREE PROTECTION FENCING | CK R.49 | TP | ooo |
| CHECK DAM | | CD | |
| STRAW WATTLES | | SW | USE AS NEEDED |

SOIL AMENDMENT REQUIRED

COMPOST AMENDED SOIL REQUIRED ON ALL LANDSCAPED AREAS AFTER CONSTRUCTION

| NO. | DATE | BY | REVISIONS | |
|-----|------|----|-----------|--|
| | | | | APPLICANT MIKE YEGENAH ASPEN HOMES |
| | | • | · | |





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 THE APPLICANT'S DISCRETION, NOTES THAT IN NO WAY APPLY TO THE PROJECT MAY BE OMITTED; HOWEVER, THE REMAINING NOTES MUST NOT BE RENUMBERED. FOR EXAMPLE, IF ESC NOTE #3 WERE OMITTED, THE REMAINING NOTES SHOULD BE NUMBERED 1, 2, 4, 5, 6, ETC.

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

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

3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION (SWDM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.

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

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

6. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, 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 FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.

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

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

10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING THE WET 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 TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.

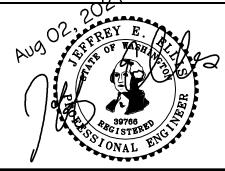
12. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH GRADED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

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

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

DATE: Aug 02, 2021

JOB# 1989 DRAFTED: SS DESIGN: DE DIGITAL SIGNATURE





102 NW CANAL STREET PHONE: 206.930.0342

| <u>CII</u> 1. | Y NOTES ANY CHANGES TO THE APPROVED PLANS REQUIRES CITY APPROVAL TH |
|------------------|---|
| | A REVISION. |
| 2. | APPLICANT IS RESPONSIBLE FOR ANY DAMAGES TO UNDERGROUND UTIL CAUSED FROM THIS CONSTRUCTION. |
| 3. | CATCH BASIN FILTERS SHOULD BE PROVIDED FOR ALL STORM DRAIN CA BASINS/INLETS DOWNSLOPE AND WITHIN 500 FEET OF THE CONSTRUCTION AREA. CATCH BASIN FILTERS SHOULD BE DESIGNED BY THE MANUFACTU FOR USE AT CONSTRUCTION SITES AND APPROVED BY THE CITY INSPEC CATCH BASIN FILTERS SHOULD BE INSPECTED FREQUENTLY, ESPECIALL STORM EVENTS. IF THE FILTER BECOMES CLOGGED, IT SHOULD BE CLEAR REPLACED. |
| 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. AL 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: |
| 8. | PROTECT ADJACENT PROPERTIES FROM ANY INCREASED RUNOFF OR SEDIMENTATION DUE TO THE CONSTRUCTION PROJECT THROUGH THE U APPROPRIATE "BEST MANAGEMENT PRACTICES" (BMP) EXAMPLES INCLU ARE NOT LIMITED TO, SEDIMENT TRAPS, SEDIMENT PONDS, FILTER FABR FENCES, VEGETATIVE BUFFER STRIPS OR BIOENGINEERED SWALES. |
| 9. | CONSTRUCTION ACCESS TO THE SITE SHOULD BE LIMITED TO ONE ROU STABILIZE ENTRANCE WITH QUARRY SPALLS TO PREVENT SEDIMENT FR LEAVING THE SITE OR ENTERING THE STORM DRAINS. |
| 10. | PREVENT SEDIMENT, CONSTRUCTION DEBRIS, PAINTS, SOLVENTS, ETC., OTHER TYPES OF POLLUTION FROM ENTERING PUBLIC STORM DRAINS. F POLLUTION ON YOUR SITE. |
| 11. | ALL EXPOSED SOILS SHALL REMAIN DENUDED FOR NO LONGER THAN SED AYS AND SHALL BE STABILIZED WITH MULCH, HAY, OR THE APPROPRIATION COVER. ALL EXPOSED SOILS SHALL BE COVERED IMMEDIATELY ANY RAIN EVENT. |
| 12. | INSTALLATION OF CONCRETE DRIVEWAYS, TREES, SHRUBS, IRRIGATION BOULDERS, BERMS, WALLS, GATES, AND OTHER IMPROVEMENTS ARE NO ALLOWED IN THE PUBLIC RIGHT-OF-WAY WITHOUT PRIOR APPROVAL, AN ENCROACHMENT AGREEMENT AND RIGHT OF WAY PERMIT FROM THE SE DEVELOPMENT ENGINEER. |
| 13. | OWNER SHALL CONTROL DISCHARGE OF SURFACE DRAINAGE RUNOFF EXISTING AND NEW IMPERVIOUS AREAS IN A RESPONSIBLE MANNER. CONSTRUCTION OF NEW GUTTERS AND DOWNSPOUTS, DRY WELLS, LEV SPREADERS OR DOWNSTREAM CONVEYANCE PIPE MAY BE NECESSARY MINIMIZE DRAINAGE IMPACT TO YOUR NEIGHBORS. CONSTRUCTION OF I DRAINAGE IMPROVEMENTS SHOWN OR CALLED OUT ON THIS PLAN DOES IMPLY RELIEF FROM CIVIL LIABILITY FOR YOUR DOWNSTREAM DRAINAGE |
| 14. | POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SU REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE MAINS. |
| 15. | REMEMBER: EROSION CONTROL IS YOUR FIRST INSPECTION. |
| 16. INSP | ROOF DRAINS MUST BE CONNECTED TO THE STORM DRAIN SYSTEM AND ECTED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY BACKFILLING |
| 17. | SILENT FENCE: CLEAN AND PROVIDE REGULAR MAINTENANCE OF THE S FENCE. THE FENCE IS TO REMAIN VERTICAL AND IS TO FUNCTION PROPE THROUGHOUT THE TERM OF THE PROJECT. |
| 18. | WORK IN PUBLIC RIGHT OF WAY REQUIRES A RIGHT-OF-WAY USE PERMI |
| 19. | REFER TO WATER SERVICE PERMIT FOR ACTUAL LOCATION OF NEW WA METER AND SERVICE LINE DETERMINED BY MERCER ISLAND WATER DEPARTMENT. |
| 16. | THE TV INSPECTION OF THE EXISTING SIDE SEWER TO THE CITY SEWER REQUIRED. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACT CONDITION, AS DETERMINED BY THE CITY OF MERCER ISLAND INSPECTOR REPLACEMENT OF THE EXISTING SIDE SEWER IS REQUIRED. ALTERNATE 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 PROVI 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 SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SU REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE MAINS. |
| 22. | THE LIMITS AND EXTENDS OF THE PAVEMENT IN THE PUBLIC RIGHT OF V SHALL BE DETERMINED BY THE CITY ENGINEER PRIOR TO FINALIZE THE PROJECT. |

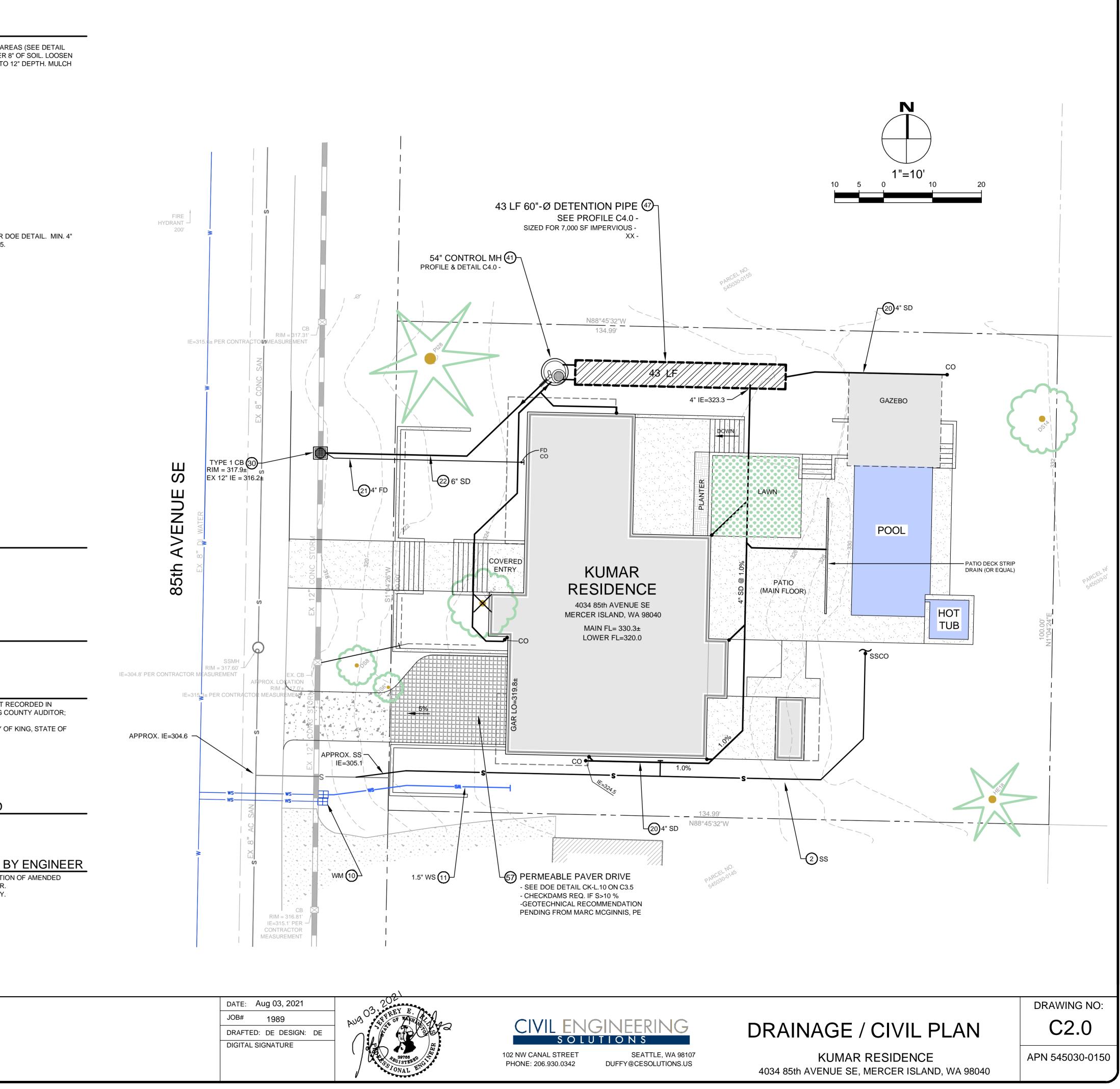
TESC & CITY NOTES TESC DETAILS KUMAR RESIDENCE 4034 85th AVENUE SE, MERCER ISLAND, WA 98040 DRAWING NO: C1.2

APN 545030-0150

| STORM BMP's |
|---|
| 50 -COMPOST AMENDED SOIL TO ALL DISTURBED A |
| SHEET C3.5). TILL 2-3" OF COMPOST INTO UPPER COMPACTED SUBSOIL, IF NEEDED BY RIPPING TO |
| LANDSCAPE BEDS AFTER PLANTING. |
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| (52) - |
| C |
| (53) - |
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| (54) - |
| (55) - |
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| (56) - |
| |
| 57 -PERMEABLE PAVER SURFACE (DRIVEWAY) PER |
| DEEP RESERVOIR COURSE. SEE DETAIL ON C3.5 |
| 58 - |
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| SURVEYOR |
| TOPOGRAPHIC & BOUNDARY SURVEY BY: |
| SITE SURVEYING, INC. 21923 NE 11th STREET |
| SAMMAMISH, WA 98074 |
| PHONE 425-298-4412 www.sitesurveymapping.com |
| |
| |
| VERTICAL DATUM |
| NAVD 88 PER POINT ID NO. 2150 |
| SEE SURVEY |
| |
| LEGAL DESCRIPTION |
| LOT 6 IN BLOCK B OF MERCER CREST, AS PER PLAT |
| VOLUME 42 OF PLATS, PAGE 26, RECORDS OF KING |
| SITUATE IN THE CITY OF MERCER ISLAND, COUNTY WASHINGTON. |
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| SOIL AMENDMENT REQUIRED |
| COMPOST AMENDED SOIL REQUIRED |
| LANDSCAPED AREAS AFTER CONSTRUCTION. SEE |
| DETAIL ON C3.5. |
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| A POST CONSTRUCTION INSPECTION & CERTIFICAT SOILS IS REQUIRED BY A LICENSED CIVIL ENGINEER |
| A POST CONSTRUCTION INSPECTION & CERTIFICAT SOILS IS REQUIRED BY A LICENSED CIVIL ENGINEER |
| A POST CONSTRUCTION INSPECTION & CERTIFICAT SOILS IS REQUIRED BY A LICENSED CIVIL ENGINEER |
| SOIL INSPECTION REQUIRED A POST CONSTRUCTION INSPECTION & CERTIFICAT SOILS IS REQUIRED BY A LICENSED CIVIL ENGINEER THIS IS REQUIRED BEFORE FINAL SIGN-OFF BY CITY |
| A POST CONSTRUCTION INSPECTION & CERTIFICAT SOILS IS REQUIRED BY A LICENSED CIVIL ENGINEER |
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| NO. | DATE | BY | REVISIONS | |
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| | | | | APPLICANT MIKE YEGENAH |
| | | | | ASPEN HOMES |
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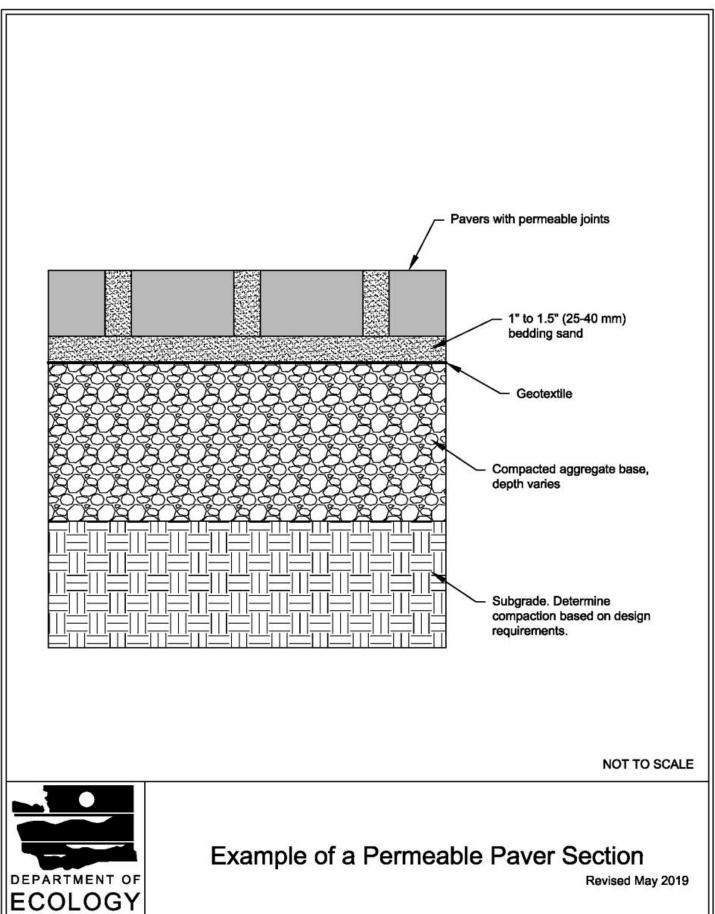




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DOE PERMEABLE PAVER SECTION

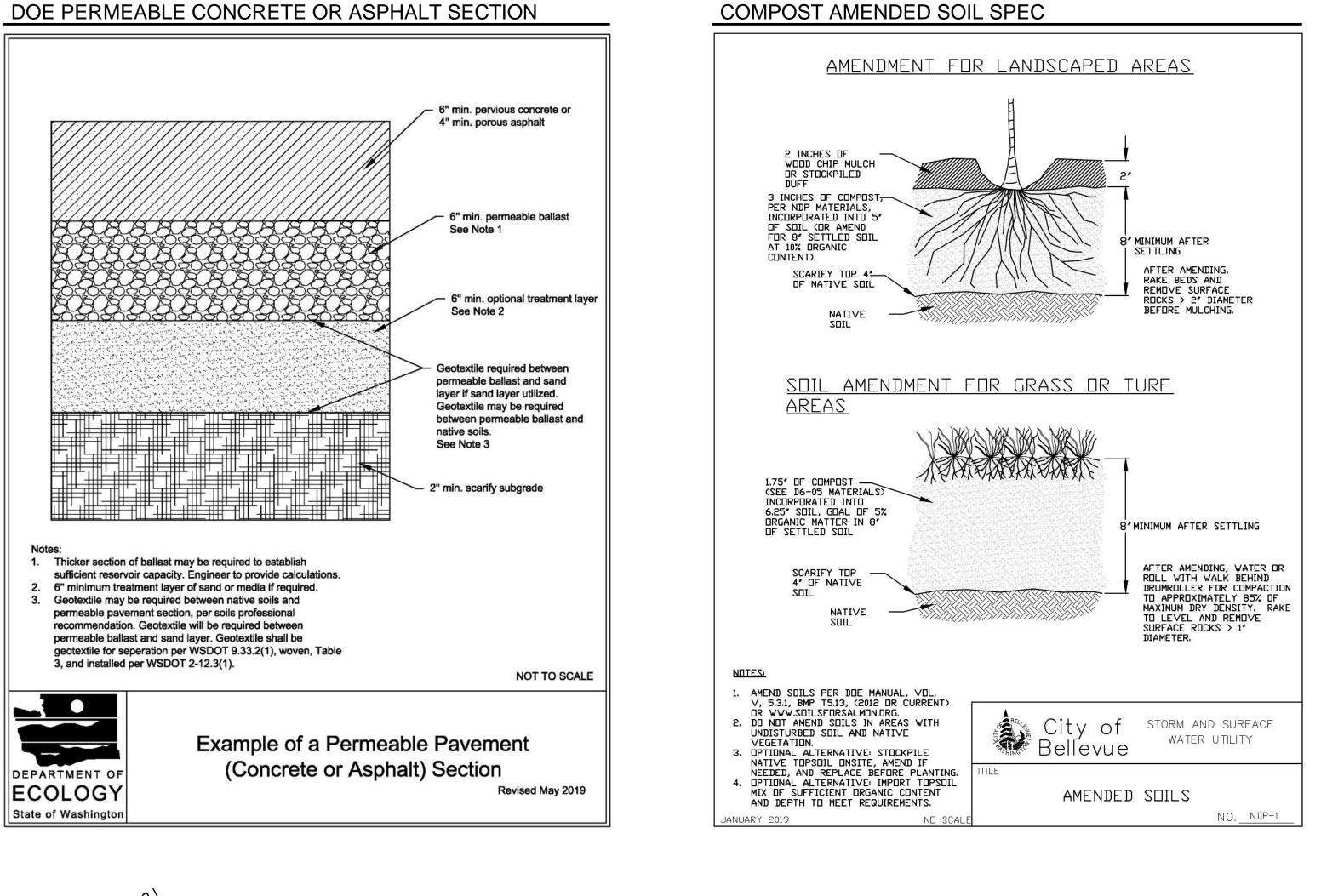
State of Washington

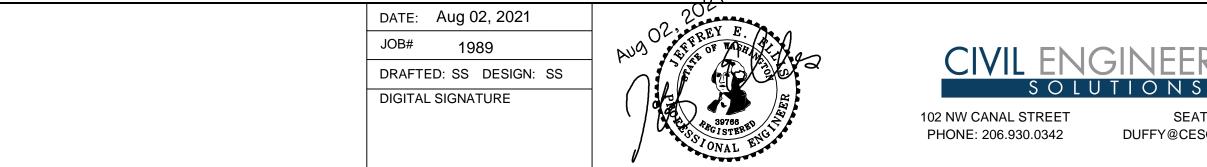


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| | | | | APPLICANT MIKE YEGENAH ASPEN HOMES |
| | | | | |



DOE PERMEABLE CONCRETE OR ASPHALT SECTION





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.

JEERING SEATTLE, WA 98107 DUFFY@CESOLUTIONS.US

BMP DETAILS KUMAR RESIDENCE 4034 85th AVENUE SE, MERCER ISLAND, WA 98040 DRAWING NO: C3.5

APN 545030-0150

MERCER ISLAND DETENTION "TABLE 1"

| ON-SITE DETENTION | DESIGN FOR PROV | Colo Della | | 1 71112 2120 | | | | | 1671 |
|----------------------------------|---------------------------------|-------------------------------|---------|--|---------|---|---------|---------------------------------|---------|
| New and Replaced | | Detention Pipe Length (ft) | | Lowest Orifice Diameter (in) ⁽³⁾ | | Distance from Outlet Invert to Second Orifice (ft) | | Second Orifice Diameter (in) | |
| Impervious Surface Area (sf) | Detention Pipe Diameter (in) | Basis | C soils | Basils | C soils | Basels | C soils | Brsils | C soils |
| | 36" | 30 | 22 | 0.5 | 0.5 | 2.2 | 2.0 | 0.5 | 0.8 |
| 500 to 1,000 sf | 48" | 18 | 11 | 0.5 | 0.5 | 3.3 | 3.2 | 0.9 | 0.8 |
| | 60" | 11 | 7 | 0.5 | 0.5 | 4.2 | 3.4 | 0.5 | 0.6 |
| KOMO NUMBER | 36" | 66 | 43 | 0.5 | 0.5 | 2.2 | 2.3 | 0.9 | 1.4 |
| 1,001 to 2,000 sf | 48" | 34 | 23 | 0.5 | 0.5 | 3.2 | 3.3 | 0.9 | 1.2 |
| | 60 [#] | 22 | 14 | 0.5 | 0.5 | 4.3 | 3.6 | 0.9 | 0.9 |
| NOT COMPANY AND A DOMESTIC | 36" | 90 | 66 | 0.5 | 0.5 | 2.2 | 2.4 | 0.9 | 1.9 |
| 2,001 to 3,000 sf | 48" | 48 | 36 | 0.5 | 0.5 | 3.1 | 2.8 | 0.9 | 1.5 |
| | 60" | 30 | 20 | 0.5 | 0.5 | 4.2 | 3.7 | 0.9 | 1.1 |
| | 36" | 120 | 78 | 0.5 | 0.5 | 2.4 | 2.2 | 1.4 | 1.6 |
| 3,001 to 4,000 sf | 48" | 62 | 42 | 0.5 | 0.5 | 2.8 | 2.9 | 0.8 | 1.3 |
| CONTRACT SECTION ROLLING | 60 [°] | 42 | 26 | 0.5 | 0.5 | 3.8 | 3.9 | 0.9 | 1.3 |
| | 36" | 134 | 91 | 0.5 | 0.5 | 2.8 | 2.2 | 1.7 | 1.5 |
| 4,001 to 5,000 sf | 48" | 73 | 49 | 0.5 | 0.5 | 3.6 | 2.9 | 1.6 | 1.5 |
| | 60" | 46 | 31 | 0.5 | 0.5 | 4.6 | 3.5 | 1.6 | 1.3 |
| 5,001 to 6,000 sf | 36" | 162 | 109 | 0.5 | 0.5 | 2.7 | 2.2 | 1.8 | 1.6 |
| | 48" | 90 | 59 | 0.5 | 0.5 | 3.5 | 2.9 | 1.7 | 1.5 |
| | 60" | 54 | 37 | 0.5 | 0.5 | 4.6 | 3.6 | 1.6 | 1.4 |
| | 36" | 192 | 128 | 0.5 | 0.5 | 2.7 | 2.2 | 1.9 | 1.8 |
| (6,001 to 7,000 sf) | 48" | 102 | 68 | 0.5 | 0,5 | 3.7 | 2.9 | 1.9 | 1.6 |
| | 60" | 64 | (43) | 0.5 | 0.5 | 4.6 | 3.6 | 1.8 | 1.5 |
| And the second second | 36" | 216 | 146 | 0.5 | 0.5 | 2.8 | 2.2 | 2.0 | 1.9 |
| 7,001 to 8,000 sf | 48" | 119 | 79 | 0.5 | 0.5 | 3.8 | 2.9 | 2.2 | 1.7 |
| | 60" | 73 | 49 | 0.5 | 0.5 | 4.5 | 3.6 | 2.0 | 1.6 |
| | 36" | 228 | 155 | 0.5 | 0.5 | 2.8 | 2.2 | 2.1 | 1.9 |
| 8,001 to 8,500 sf ⁽¹⁾ | 48" | 124 | 84 | 0.5 | 0.5 | 3.7 | 2.9 | 1.9 | 1.8 |
| | 60" | 77 | 53 | 0.5 | 0.5 | 4.6 | 3.6 | 2.0 | 1.6 |
| | 36" | NA ^(I) | 164 | 0.5 | 0.5 | NA ⁽¹⁾ | 2.2 | NA ⁽¹⁾ | 1.9 |
| 8,501 to 9,000 sf | 48" | NA (1) | 89 | 0.5 | 0.5 | NA (1) | 2.9 | NA (1) | 1.9 |
| | 60" | NA (1) | 55 | 0.5 | 0.5 | NA (1) | 3.6 | NA | 1.7 |
| | 36" | NA (1) | 174 | 0.5 | 0.5 | NA (1) | 2.2 | NA® | 2.1 |
| 9,001 to 9,500 sf ⁽²⁾ | 48" | NA (1) | 94 | 0.5 | 0.5 | NA (1) | 2.9 | NA (1) | 2.0 |
| • | 60" | NA (1) | 58 | 0.5 | 0.5 | NA (1) | 3.7 | NA (1) | 1.7 |

Notes:

 Soil type to be determined by geotechnical analysis or soil map. Sizing includes a Volume Correction Factor of 120%. Upper bound contributing area used for sizing. ⁽¹⁾ On Type B soils, new plus replaced impervious surface areas exceeding 8,500 sf trigger Minimum Requirement #7 (Flow Control) ⁽²⁾ On Type C soils, new plus replaced Impervious surface areas

exceeding 9,500 sf trigger Minimum Requirement #7 (Flow Control) ⁽³⁾ Minimum orifice diameter = 0.5 inches in = inch

ft = feet sf = square feet

IMPERVIOUS TABLE

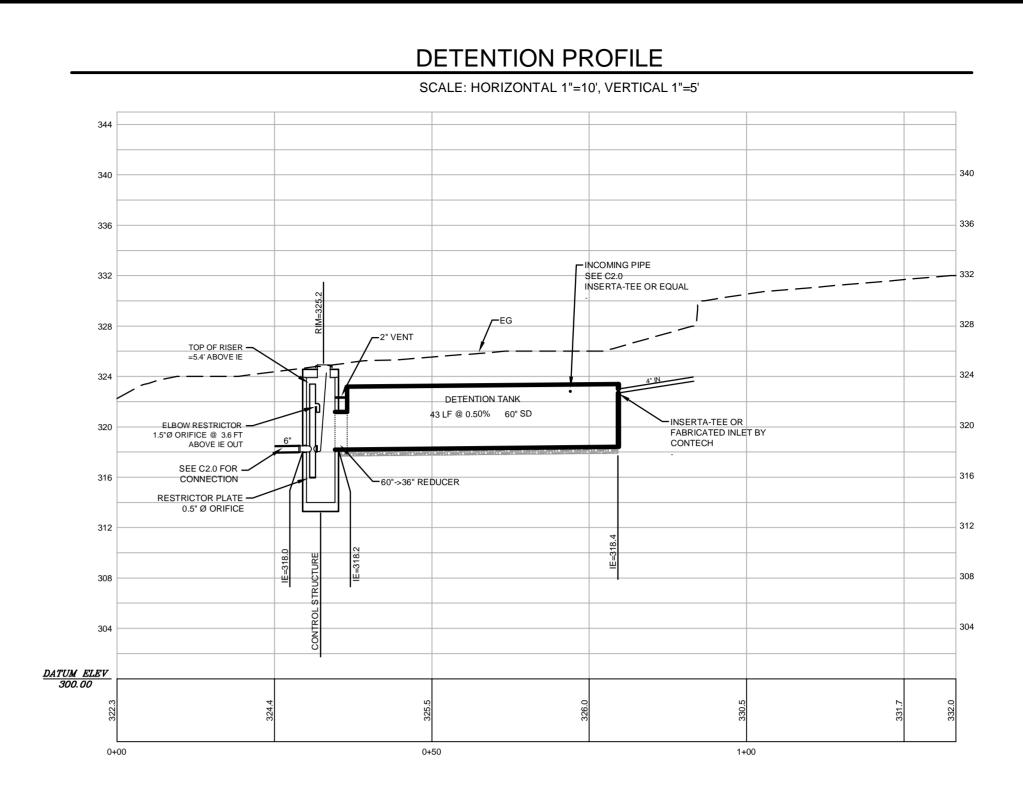
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| Kumar Reside |
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| Gross Site area |
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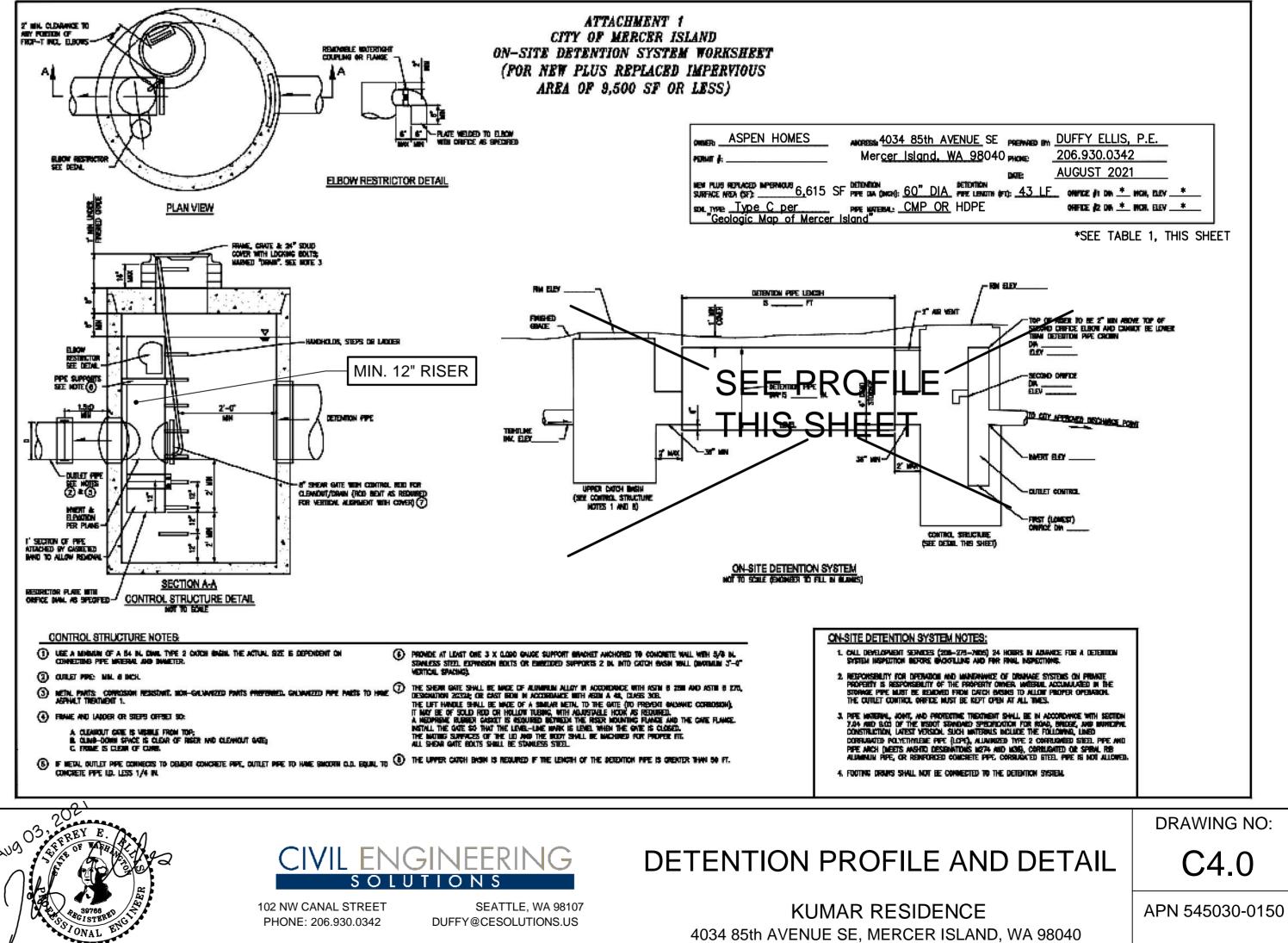
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| | | | | APPLICANT MIKE YEGENAH | | | |
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 Minimum Requirement #7 (Flow Control) is required when the 100-year flow frequency causes a 0.15 cubic feet per second increase (when modeled in WWHM with a 15-minute timestep). Breakpoints shown in this table are based on a flat slope (0-5%). The 100-year flow frequency will need to be evaluated on a site-specific basis for projects on moderate (5-15%) or steep (> 15%) slopes.

Basis of Sizing Assumptions: Sized per MR#5 in the Stormwater Management Manual for Puget Sound Basin (1992 Ecology Manual) SBUH, Type 1A, 24-hour hydrograph 2-year, 24-hour storm = 2 in; 10-year, 24-hour storm = 3 in; 100-year, 24-hour storm = 4 in Predeveloped = second growth forest (CN = 72 for Type B soils, CN = 81 for Type C soils) Developed = impervious (CN = 98) 0.5 foot of sediment storage in detention pipe Overland slope = 5%

| mpervious Area Spreadsheet | | | | | | |
|---|---------|-------|--|--|--|--|
| ence - 4034 85th Avenue SE, Mercer Island, WA 98040 | | | | | | |
| | | | | | | |
| | 13,499 | sf | | | | |
| | 0.310 | acres | | | | |
| | | | | | | |
| ious Area | 8,712 | sf | | | | |
| total existing impervious area = | 8,712 | sf | | | | |
| total existing vegetated area = | 4,787 | sf | | | | |
| | | | | | | |
| rvious Area (on-site) | | | | | | |
| se roof | 3,276 | sf | | | | |
| ebo roof | 361 | sf | | | | |
| l/hardscape, exposed | 2,154 | sf | | | | |
| eway, on-site, exposed | 381 | sf | | | | |
| total on-site proposed = | 6,172 | sf | | | | |
| al new + replaced impervious = | (2,540) | sf | | | | |
| new impervious area = | (2,540) | sf | | | | |
| otal proposed vetetated area = | 7,327 | sf | | | | |
| | | | | | | |





DATE: Aug 03, 2021

JOB# 1989 DRAFTED: SS DESIGN: SS DIGITAL SIGNATURE

MERCER ISLAND DETENTION DETAIL

