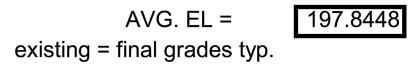


ELEVATION CALC.

| | EL @ MIDPOINT | segment | wtd sgmnt |
|----|---------------|---------|-----------|
| | | (ft) | |
| 1 | 197.50 | 25.5 | 5036.25 |
| 2 | 198.00 | 1 | 198.00 |
| 3 | 198.00 | 15 | 2970.00 |
| 4 | 198.00 | 1 | 198.00 |
| 5 | 198.50 | 14 | 2779.00 |
| 6 | 198.00 | 24 | 4752.00 |
| 7 | 198.00 | 3 | 594.00 |
| 8 | 198.00 | 18 | 3564.00 |
| 9 | 198.00 | 26.46 | 5239.08 |
| 10 | 198.00 | 18 | 3564.00 |
| 11 | 197.50 | 25.04 | 4945.40 |
| 12 | 197.50 | 24 | 4740.00 |
| | | 195 | 38579.73 |



LOT SLOPE

| HIGH POINT = 200' LOW POINT = 194' |
|--|
| LOT SLOPE = 6'/107 LOT COVERAGE = 4 |

F.A.R. CALCULATION

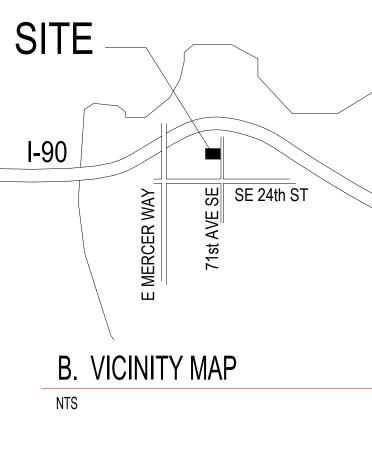
Main Floor FA= 1768 sf (inc. gar) Basement FA = 1222 sf (94.4% below grade) Upper Floor FA = 1242 sf 4232 sf

excepted FA = (1153.6 sf)stairs = $(70 \text{ sf x}^2 = 140 \text{ sf})$

TOTAL chargeable FA = 2938.4 sf

Code Data

2018 International Building Code (IBC) - struct. 2018 International Residential Code (IRC) 2018 International Mechanical Code (IMC) 2018 International Fuel Gas Code (IFGC) 2018 Uniform Plumbing Code (UPC) 2018 International Fire Code (IFC) 2018 International Existing Building Code 2018 International Swimming Pool and Spa Code Washington State Energy Code (WCEC) ICC/ANSI A117.1-09, Accessible and Usable Buildings and Facilities, with statewide and City amendments



A. SITE PLAN

1/10" = 1'-0"

AVE SE

71ST

327 = SPOT ELEVATION, FINAL ----= EAVE/ROOF LINE ----- = EXTENT OF LIVING AREA SHADED AREA = BLDG EXTENTS TO EAVE EXISTING HOUSE, DRIVEWAY AND ALL HARDSCAPE ON PROPERTY TO BE REMOVED — — — = EXISTING TOPOGRAPHY ① = WALL SEGMENT TAG FOR HEIGHT CALCULATION

 $\langle \widehat{A} \rangle$ = WALL SEGMENT TAG FOR BASEMENT FAR EXCEPTION SEE SHEET 03 FOR BASEMENT EXCEPTION CALC.

7' = 5.61% 40%

Lot is < 7500 sf therefor FAR = lesser of 3000 sf or, 45% of lot area

.45 x 7291 sf = 3281 sf, FAR limit = 3000 sf

LOT COVERAGE (SHADED AREA) House Roof to eaves (shaded x 2) = 2306 sf covered porches/decks = 207.5 sf driveway (shaded) = 338 sf TOTAL = 2851.5 sf allowable = 7291 x .4 =2916.4 sf

amount available for hardscape = 110.4 sf

HARDSCAPE DECKS, PATIOS, WALKS, WINDOW WELLS ETC = 512.4 sf

allowable = 7291 sf x .09 = 656.2 sf extra lot cov. = 110.4 sf TOTAL allow. = 766.6 sf

All Japanese knotweed (Polygonum cuspidatum) and Regulated Class A, Regulated Class B, and Regulated Class C weeds identified on the King County Noxious Weed list, as amended, shall be removed from the property.

development proposals for a new single-family home shall remove japanese knotweed (polygonum cuspidatum) and regulated class a, regulated class b, and regulated class c weeds identified on the king county noxious weed list, as amended, from required landscaping areas established pursuant to subsection 19.02.020(f)(3)(a). new landscaping associated with new single-family home shall not incorporate any weeds identified on the king county noxious weed list, as amended. provided, that removal shall not be required if the removal will result in increased slope instability or risk of landslide or erosion.

Civil Engineer

Duffy Ellis CES Civil Engineering 102 NW Canal St Seattle WA 98107 206.930.0342

Structural Engineer

Javid Abdi, PE, SE Atlas Consulting Structural Engineers 6810 NE 149th St Kenmore WA 98028 Phone: (206) 427-7233

Contractor

Millad Homes LLC 7683 SE 27th St Mercer Island WA 98040 206.498.6045 Lic.# MILLAHL836L1

Project Description

Demolish existing and build new single family residence.

Parcel Number/Legal

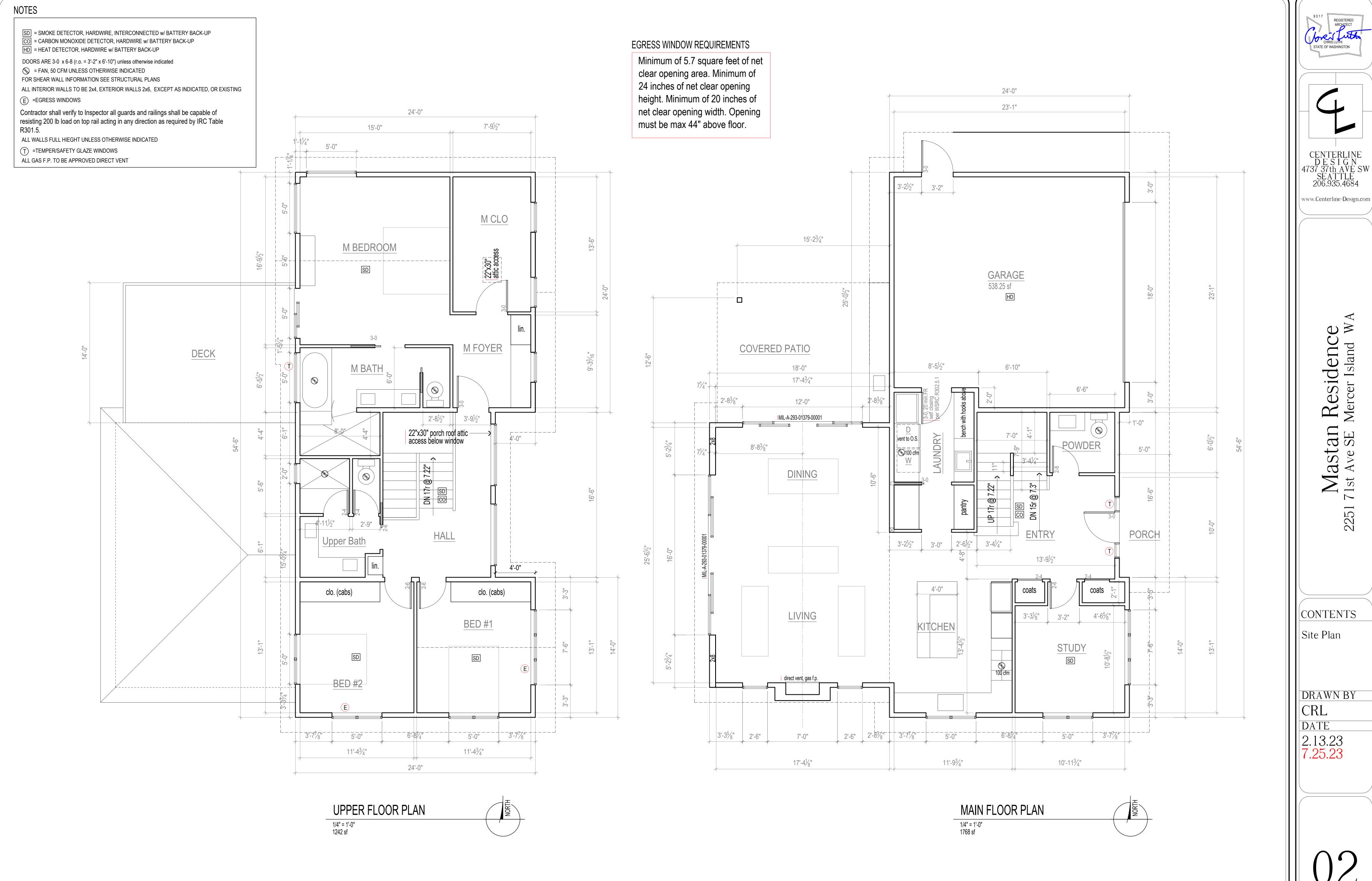
Parcel # = 3307700270 Legal Description: HIGHPARK ADD PLat Block: 3 Plat Lot: 16 ZONING = R-9.6lot size = 7,291 sf

Owner

ALI MASTAN 2251 71st Ave SE MERCER ISLAND WA 98040

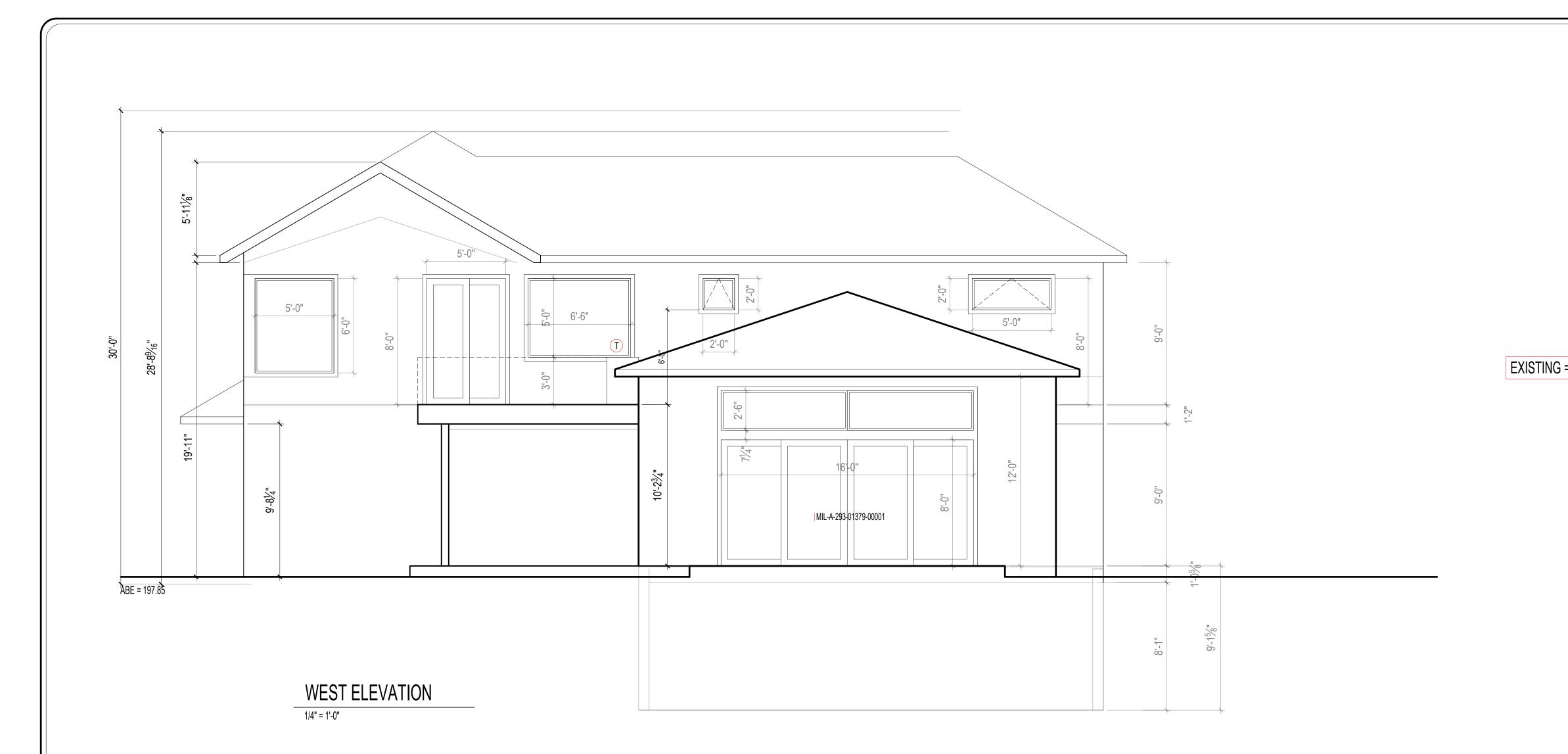
NFPA 13R and NFPA 72 Monitored "Chapter 29" Fire Alarm System to be installed per CoMI and NFPA Standards required.

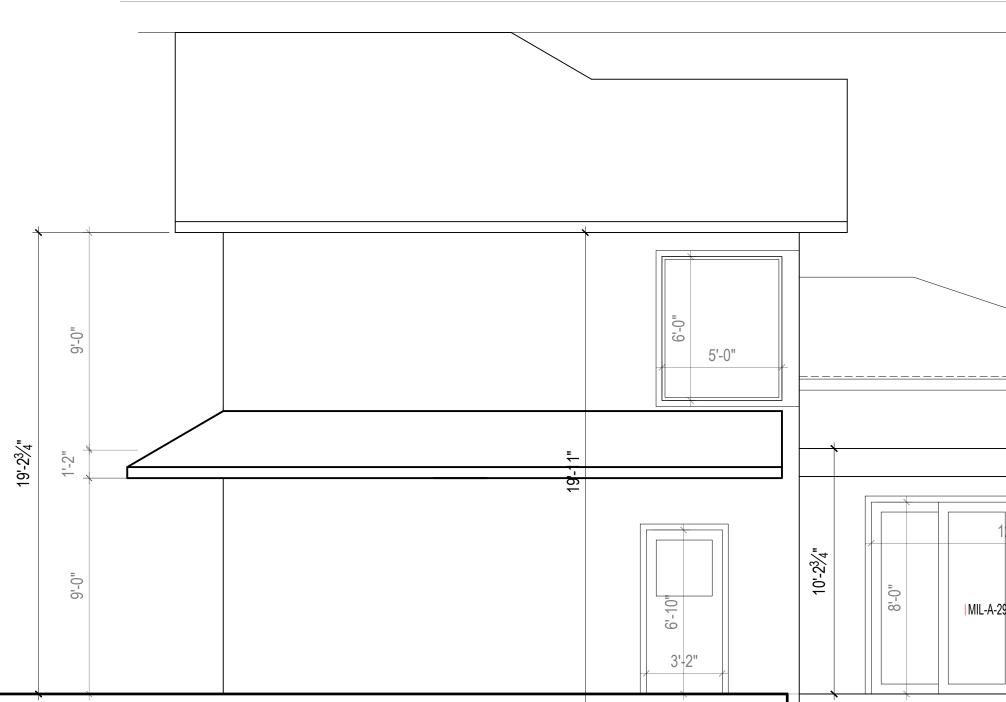






| segment | length | %cover |
|-----------------------|--------|--------|
| | | |
| а | 15 | 100 |
| b | 1 | 100 |
| С | 14 | 100 |
| d | 24 | 81 |
| е | 3 | 100 |
| f | 18 | 79 |
| g | 26.46 | 100 |
| h | 18 | 100 |
| i | 2 | 100 |
| g h i j k | 8.92 | 100 |
| k | 2 | 100 |
| | 14.08 | 100 |
| | | |
| | | |
| | | |
| perim= | 146.46 | wtd |
| | | full |
| raw FAR | 1222 | |
| | | |
| full cover = | = 8.0 | |
| excepted a | area = | 11: |



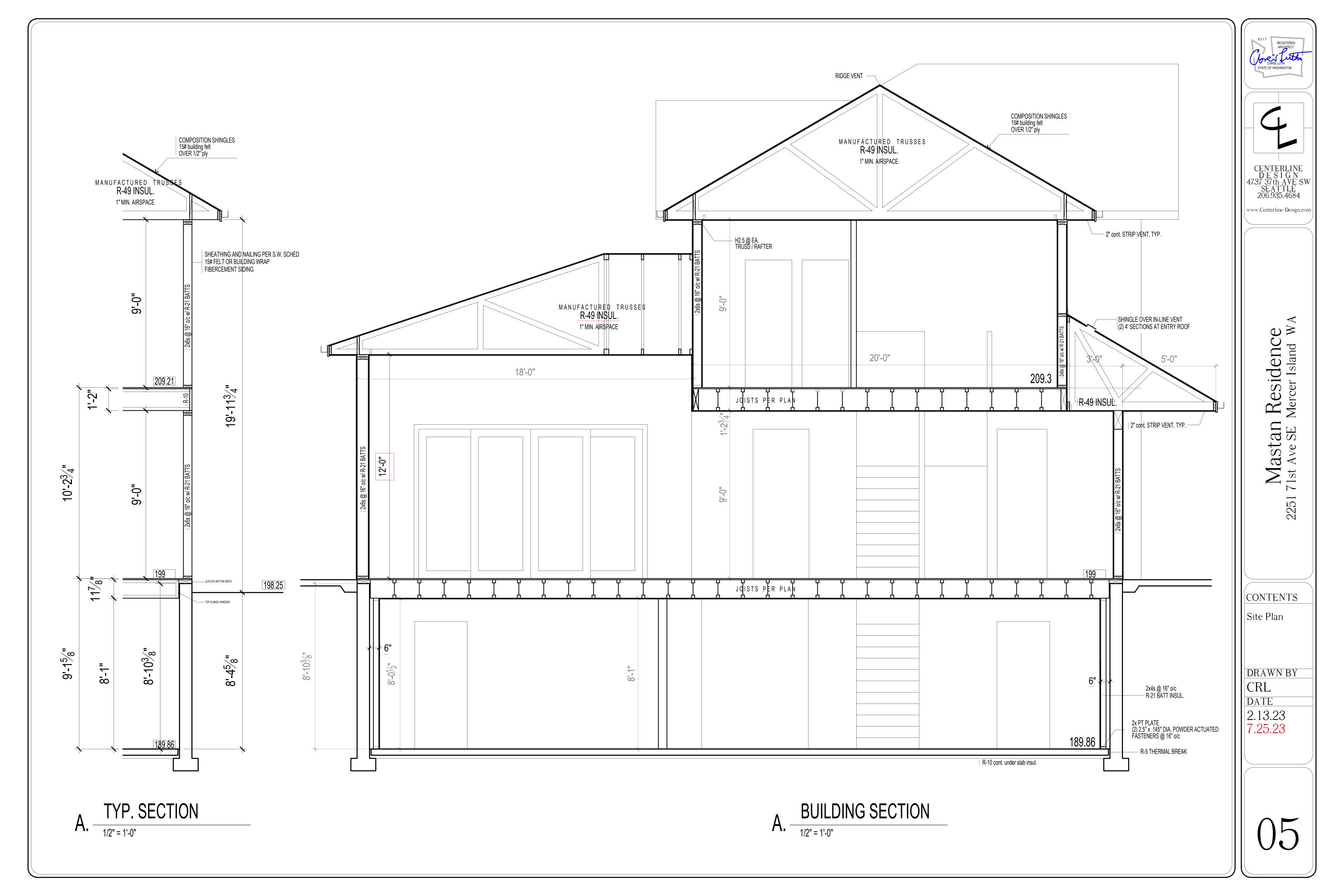


-

NORTH ELEVATION



EXISTING = FINAL GRADE, TYP.



Energy Code Info - Primary

2018 WA STATE PRESCRIPTIVE PATH HEATED FLOOR AREA = 4232 SF LESS THAN 5000 SF HEATED SPACE - 6 CREDITS REQ.

energy credit option credit value summary

| 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 |
| | | |
| total credits | 6 | |

PRIMARY RESIDENCE HVAC NOTES

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

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

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

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

| | | All Climate Zones (Table R402.1.1) | | |
|--------|--|------------------------------------|-----------------------|--|
| | | R-Value ^a | U-Factor ^a | |
| Fen | estration U-Factor ^b | n/a | 0.30 | |
| Sky | light U-Factor ^b | n/a | 0.50 | |
| Gla | zed Fenestration SHGC ^{b,e} | n/a | n/a | |
| Cei | ing ^e | 49 | 0.026 | |
| Wo | od Frame Wall ^{g,h} | 21 int | 0.056 | |
| Floo | or | 30 | 0.029 | |
| Bel | ow Grade Wall ^{c,h} | 10/15/21 int + TB | 0.042 | |
| Slak | o ^{d,f} R-Value & Depth | 10, 2 ft | n/a | |
| b c | "10/15/21 +5TB" means R-10 continuous insulation on the exterior of the wall, or R-15 continuous insulation on the interior of the wall, or R-21 cavity insulation plus a thermal break between the slab and the basement wall at the interior of the basement wall. "10/15/21 +5TB" shall be permitted to be met with R-13 cavity insulation on | | | |
| d | the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the wall. "5TB" means R-5 thermal break between floor slab and basement wall. R-10 continuous insulation is required under heated slab on grade floors. See Section R402.2.9.1. | | | |
| е | For single rafter- or joist-vaulted ceilings, the insulation may be reduced to R-38 if the full insulation depth extends over the top plate of the exterior wall. | | | |
| f | R-7.5 continuous insulation installed over an existing slab is deemed to be equivalent to the required perimeter 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. | | | |
| g | For log structures developed in compliance with Standard ICC 400, log walls shall meet the requirements for <i>climate zone</i> 5 of ICC 400. | | | |
| h | Int. (intermediate framing) denotes framing and insulation as described in Section A103.2.2 including standard framing 16 inches on center, 78% of the wall cavity insulated and headers insulated with a minimum of R-10 insulation. | | | |

ENERGY CREDIT DESCRIPTIONS

2.2

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

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

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

3.5

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

4.1

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

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

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

5.5

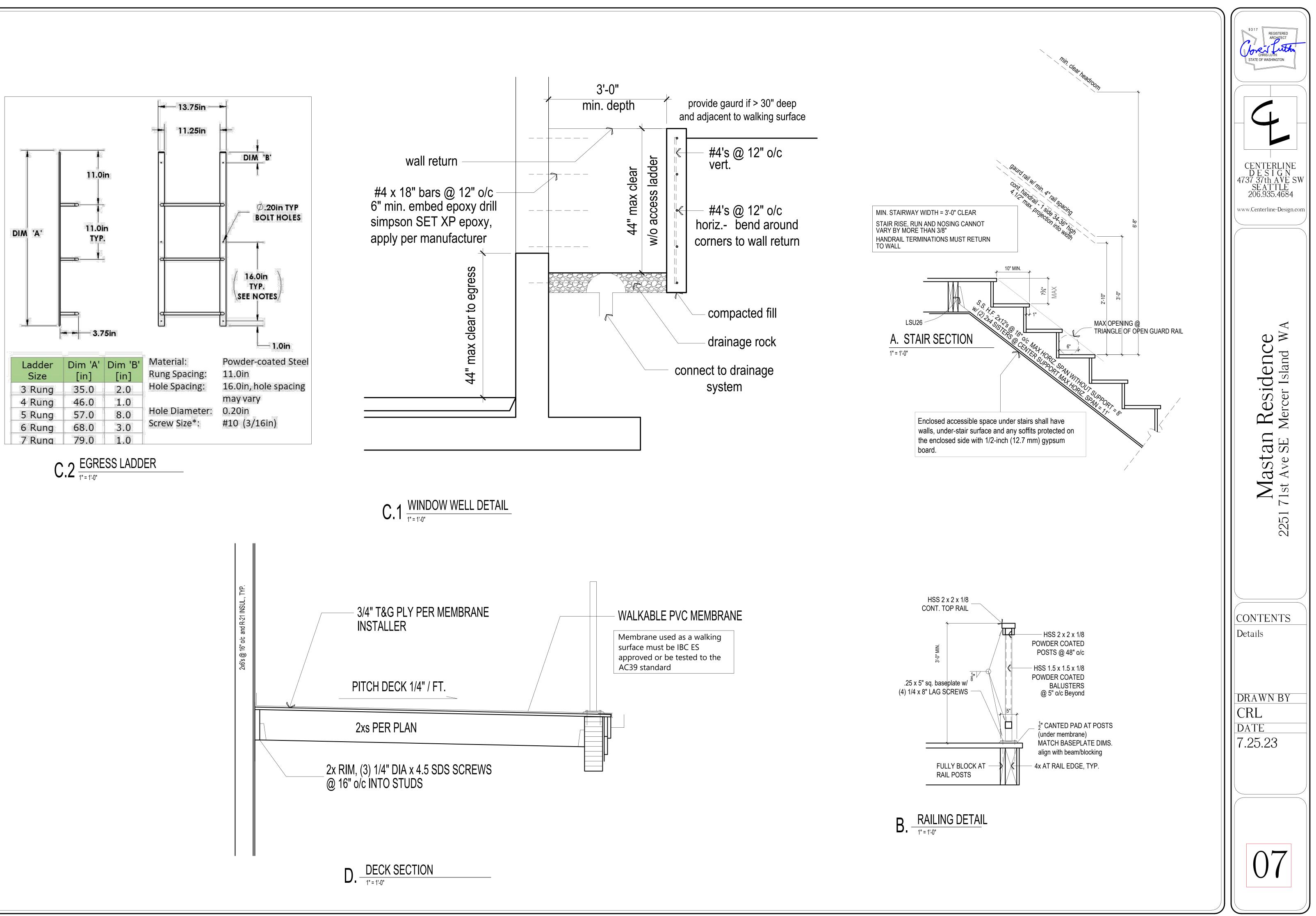
Water heating system shall include one of the following: Electric heat pump water heater meeting the standards for Tier III of NEEA's advanced water heating specification or For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification,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

| Project Information |
|---------------------------------|
| Mastan |
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| Exempt Swingin Exempt Glazed |
| Vertical Fenest |
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any frame type U=.30



| 9317 REGISTERED ARCHITECT CHRIS LUTHI STATE OF WASHINGTON |
|--|
| CENTERLINE DESIGN 4737 37th AVE SW SEATTLE 206.935.4684 www.Centerline-Design.com |
| Y |
| Mastan Residence 2251 71st Ave SE Mercer Island WA |
| CONTENTS Energy Info |
| DRAWN BY CRL DATE 2.13.23 |
| 06 |



General Structural Notes (GSN's)

- CRITERIA: 1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE SEATTLE BUILDING CODE (SBC) WITH WASHINGTON STATE ADMINISTRATIVE CODE AMENDMENTS, 2018 EDITION. 2. DESIGN LOADING CRITERIA ROOF SNOW LOAD $\ldots \ldots 25$ PSF (I_S = 1.0) $S_{S} = 1.39, S_{1} = 0.484, S_{DS} = 1.112, S_{D1} = 0.462$ EQUIVALENT LATERAL FORCE PROCEDURE LIGHT FRAME (WOOD) WALLS AND ROOFS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR $R = 6.5, \ \Omega_0 = 2\frac{1}{2}, \ I_E = 1.0, \ C_d = 4, \ C_s = 0.171$ BASE SHEAR V = 20.2 K - LRFDCOMPONENTS & CLADDING -44.5/-26.7 PSF MAX. AT WALLS (LRFD/ASD) -48.2/-28.9 GROSS UPLIFT AT ROOF (LRFD/ASD) WIND PRESSURES BASED ON LESS THAN 10 SQUARE FOOT TRIBUTARY AREAS NEAR WALL CORNERS OR ROOF EDGES (EXCLUDING CORNER ZONES AT ROOF). REDUCED DESIGN PRESSURES MAY BE CALCULATED IN ACCORDANCE WITH ASCE 7–16 CHAPTER 30. 3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ENGINEER OF ALL DISCREPANCIES PRIOR TO CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE BUILDING LAYOUT DIMENSIONS (GRID LAYOUTS, SITE COORDINATES, ETC.) AMONGST ALL TRADES, INCLUDING SHOP FABRICATED ITEMS.
- 4. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, BOTH FOR VERTICAL LOADS AND LATERAL STABILITY, FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE DRAWINGS.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.
- 6. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN. SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.
- 7. ALL STRUCTURAL SYSTEMS COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.
- 8. SEISMIC BRACING AND/OR GRAVITY SUPPORT AND ANCHORAGE OF ALL MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON, EXCEPT FOR ELEMENTS SPECIFICALLY SHOWN AND DETAILED ON THE STRUCTURAL DRAWINGS. THE MECHANICAL/ELECTRICAL CONTRACTOR MUST HIRE THE ENGINEER AND IS RESPONSIBLE FOR ALL COSTS RELATED TO THE PURCHASE AND INSTALLATION OF NECESSARY SUPPORTS, BRACING AND ANCHORAGE. SEISMIC BRACING AND ANCHORAGE DESIGN AND CONSTRUCTION SHALL COMPLY WITH CHAPTER 13 OF ASCE 7-10.
- 9. SHOP DRAWING REVIEW: SHOP DRAWINGS FOR TRUSSES SHALL BE SUBMITTED TO THE CONTRACTOR, ARCHITECT, AND ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY. THE REPRODUCIBLE SHALL BE MARKED AND RETURNED. SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.
- 10. DEFERRED SUBMITTALS SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF WASHINGTON. THE COMPONENT DESIGNER SHALL BE A REGISTERED STRUCTURAL ENGINEER IF REQUIRED BY THE BUILDING OFFICIAL OF THE LOCAL JURISDICTION. BUILDING COMPONENT SUBMITTALS SHALL INCLUDE THE DESIGNING PROFESSIONAL ENGINEER'S STAMP AND SHALL BE APPROVED BY THE COMPONENT DESIGNER PRIOR TO CURSORY REVIEW BY THE ENGINEER OF RECORD FOR LOADS IMPOSED ON THE BASIC STRUCTURE. THE COMPONENT DESIGNER IS RESPONSIBLE FOR CODE CONFORMANCE INCLUDING ACCOMMODATION FOR STRUCTURAL DISPLACEMENT PER ASCE 7-10 SECTION 13.3.2. AND ALL NECESSARY CONNECTIONS NOT SPECIFICALLY CALLED OUT ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. DEFERRED SUBMITTALS SHALL INDICATE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON BASIC STRUCTURE. DESIGN CALCULATIONS SHALL BE INCLUDED IN THE SUBMITTAL. THE CONTRACTOR SHALL FORWARD DEFERRED SUBMITTALS TO THE BUILDING OFFICIAL AND HAVE THE DEFERRED SUBMITTALS ON SITE FOR THE GOVERNING JURISDICTIONS INSPECTORS USE AND REFERENCE. THE FOLLOWING BUILDING COMPONENTS SHALL BE DEFERRED SUBMITTALS FOR THIS PROJECT:

GEOTECHNICAL:

- CONNECTOR PLATE WOOD TRUSSES

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

| ALLOWABLE SOIL PRESSURE | 2,000 PSF |
|--|-------------|
| REFERENCE: ASSUMED PER IBC TABLE 1806.2 | |
| LATERAL EARTH PRESSURE (UNRESTRAINED, LEVEL) | 35 PCF |
| (RESTRAINED, LEVEL) | 50 PCF |
| SEISMIC SURCHARGE PRESSURE | 8H, UNIFORM |
| PASSIVE EARTH PRESSURE (WITH 1.5 FACTOR OF SAFETY) | 350 PCF |
| DADE DAEEFICIENT OF EDIOTION (WITH A F EACTOR OF CAFETY) | 0.4 |

BASE COEFFICIENT OF FRICTION (WITH 1.5 FACTOR OF SAFETY) 0.4 ALL BOTTOM OF EXTERIOR FOOTINGS, AND INTERIOR FOOTINGS IN AN UNCONDITIONED SPACE, SHALL BE SET 12" BELOW GRADE AT A MINIMUM TO REACH FROST DEPTH.

ANCHORAGE:

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

13. EXPANSION BOLTS INTO CONCRETE SHALL BE ONE OF THE FOLLOWING: "KWIK BOLT TZ" AS MANUFACTURED BY HILTI, INC. AND INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. 1917 AND MANUFACTURER'S INSTRUCTIONS; OR "STRONG-BOLT 2" AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. AND INSTALLED IN STRICT ACCORDANCEW ITH ICC-ES REPORT NO. 3037 AND MANUFACTURER'S INSTRUCTIONS. SUBSTITUTES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH ICC-ES REPORTS INDICATING EQUIVALENT OR GRATER LOAD CAPACITIES. IN ADDITION, SUBSTATIONS SHALL MEET ICC-ES ACCEPTANCE CRITERIA AC193. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT INSTALLATION. EXPANSION BOLTS SHALL NOT BE USED AS SUBSTITUTES FOR EMBEDDED ANCHOR BOLTS UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER. NOTIFY ENGINEER IF BOLT LOCATIONS CONFLICT WITH REINFORCING STEEL - DO NOT CUT REINFORCING OR REDUCE EMBEDMENT DEPTHS WITHOUT PRIOR APPROVAL.

CONCRETE:

14. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 318-14 CHAPTER 26 AND ACI 301. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF f'C = 4,000 PSI PSI AT ALL CONCRETE EXPOSED TO WEATHER). MAXIMUM WATER-CEMENTITIOUS MATERIAL RATIO INTERIOR SLABS SHALL BE BETWEEN 0.40 AND 0.44. ALL CONCRETE SHALL BE EXPOSURE CLASS SO, WO, AND CO 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.): (FO, SO, WO, C1)

ALL CONCRETE EXPOSED TO WEATHER: (F1, S0, W0, C1) SEE SPECIFICATIONS FOR SHRINKAGE REDUCING CONCRETE MIX CRITERIA WHERE INDICATED ON CONCRETE MIXES SHALL MEET OR EXCEED THE REQUIREMENTS SPECIFIED ABOVE. MIXES SHALL SUBMITTED TO THE ENGINEER AND BUILDING OFFICIAL FOR APPROVAL TWO WEEKS PRIOR TO PLA ANY CONCRETE AND SHALL INCLUDE THE AMOUNTS OF CEMENT, CEMENTITOUS MATERIAL, FINE 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, CHAF AND 27. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFOR PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MA FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

- 15. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, fy = 60,000 PSI. GRADE 60 REINFORCING BARS WHICH ARE TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCEMEN COMPLYING WITH ASTM A615(S1) MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICA CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D1.4 ARE SUBMITTED. WELDED FABRIC SHALL CONFORM TO ASTM A1064.
- 16. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH / 315-99 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT IN ACCORDANCE WITH "REINFORCE SPLICE AND DEVELOPMENT LENGTH SCHEDULE" OF 10/S3.1. PROVIDE CORNER BARS AT ALL WAL FOOTING INTERSECTIONS. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 12" AT AND ENDS. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLE OTHERWISE NOTED ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.

| 7. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS: | |
|---|------|
| FOOTINGS AND OTHER UNFORMED SURFACES | |
| CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | 3" |
| FORMED SURFACES EXPOSED TO EARTH | |
| | 4.19 |

- 18. BONDING AGENT SHALL BE "MASTEREMACO ADH 326" BY BASE CORPORATION. OR EQUIVALENT. SHALL BE USED WHERE NEW CONCRETE IS PLACED AGAINST HARDENED CONCRETE. PLACE IN 3 ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING PREPARATION OF EXISTING SURFA CONCRETE SHALL BE CONSIDERED HARDENED AFTER 56 DAYS.
- 19. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIX PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. GROUT STRENGTH S AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (6,000 PSI MINIMUM).

IBC TABLE 1705.3 REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

| | AND ILSIS OF CONCIN | LIL UU | | NUCHUN |
|-----------|---|------------|----------|--|
| REQUIRED? | VERIFICATION & INSPECTION | CONTINUOUS | PERIODIC | REF STD. |
| N/A | 1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS AND VERIFY PLACEMENT. | | Х | ACI 318 CH. 20, 25.2, 25.3, 26.5.1-26.5.3 |
| N/A | REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706. B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16": AND | | Х | AWSD1.4 ACI 318 26.5.4 |
| | C. INSPECT ALL OTHER WELDS | Х | Х | |
| YES | 3. INSPECT ANCHORS CAST IN CONCRETE. | | Х | ACI 318: 17.8.2 |
| N/A | A. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A | X | х | ACI 318: 17.8.2.4 ACI 318:17.8.2 |
| N* | 5. VERIFY USE OF REQUIRED DESIGN MIX. | | х | ACI 318: CH. 19, 26.4.3, 26.4.4 |
| N* | 6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. | х | | ASTM C 172 ASTM C 31 ACI 318: 26.4.5, 26.12 |
| N* | 7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. | х | | ACI 318: 26.4.5 |
| N* | 8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. | | х | ACI 318: 26.4.7-26.4.9 |
| N/A | 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/A | 10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS. | | х | ACI 318: CH. 26.8 |
| N* | 11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCT'L SLABS. | | х | ACI 318: 26.10.2 |
| N* | INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. | | х | ACI318: 26.10.1(b |

20. FRAMING LUMBER SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN CONFORMANCI W.C.L.I.B. STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17 OR W.W.P.A. WESTERN L GRADING RULES. FURNISH TO THE FOLLOWING MINIMUM STANDARDS: OLICE AC FID NO. 7 OD CTUD ODAD

| PLATES, LEDGERS & MISC. | DOUGLAS FIR NO. 3 OR STU | ID GRADE |
|-------------------------|---------------------------|---|
| LIGHT FRAMING: | MIN. BASIC DESIGN STRESS, | $F_{b} = 525 \text{ PSI}, \text{ E} = 140$ |
| | | $F_{c} = 775 \text{ PSI}, F_{t} = 32$ |
| JOISTS & RAFTERS: | DOUGLAS FIR NO. 2 | |
| | MIN. BASIC DESIGN STRESS, | $F_{b} = 900 \text{ PSI}, \text{ E} = 160$ |
| | | $F_{c} = 1350 \text{ PSI}, F_{t} = 5$ |
| BEAMS: | DOUGLAS FIR NO. 1 | |
| 4x_ | MIN. BASIC DESIGN STRESS, | $F_{b} = 1000 \text{ PSI}, \text{ E} = 17$ |
| | | $F_{c} = 1500 \text{ PSI}, F_{t} = 6$ |
| 6x_ | MIN. BASIC DESIGN STRESS, | $F_{b} = 1350 \text{ PSI}, \text{ E} = 16$ |
| | | $F_{c} = 925 \text{ PSI}, F_{t} = 67$ |
| COLUMNS: | DOUGLAS FIR NO. 1 | |
| | | E _ 1000 DSL E _ 17 |
| 4x_ | MIN. BASIC DESIGN STRESS, | $F_b = 1000 \text{ PSI}, E = 17$ $F_c = 1500 \text{ PSI}, F_t = 6$ |
| 6x | MIN. BASIC DESIGN STRESS, | |
| 0 | MIN. DASIC DESIGN STRESS, | $F_{c} = 1000 \text{ PSI}, E = 1000 \text{ PSI}, F_{t} = 83000 \text{ PSI}$ |
| | | $1c = 1000 + 5i, t_{\rm f} = 0.$ |
| | | |

21. MANUFACTURED LUMBER SHALL BE AS MANUFACTURED BY TRUS JOIST OR APPROVED EQUAL. FOR APPROVAL AS EQUAL WILL REQUIRE SUBMITTAL OF ICC REPORT EQUIVALENT TO ESR-1387 I LAMINATED VENNER LUMBER (LVL, LAMINATED STRAND LUMBER (LSL), OR PARALLEL STRAND LUM (PSL). THE MINIMUM ALLOWABLE DESIGN VALUES ARE AS FOLLOWS: $LVL - F_b = 2,600$ $F_v = 290$ PSI E = 2,000,000 PSI

22. GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND A.I.T.C. STANDARDS IN ACCORDANCE WITH SBC SECTION 2303.1.3. EACH MEMBER SHALL BEAR AN A.I.T.C. IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN A.I.T.C. CERTIFICATE OF CONFORMANCE. HORIZONTAL MEMBERS AND INCLINED MEMBERS OF LESS THAN 1:1 SLOPE SHALL HAVE A RADIUSED CAMBER OF 3,500 FT. UNLESS OTHERWISE NOTED.

 $LSL - F_b = 1,900$ $F_v = 150$ PSI E = 1,300,000 PSI

SIMPLE SPAN BEAMS DOUGLAS FIR COMBINATION 24F-V4 $F_b = 2400 \text{ PSI}; F_v = 265 \text{ PSI}; E = 1,800,000 \text{ PSI}$

CONTINUOUS OR DOUGLAS FIR COMBINATION 24F-V8 CANTILEVERED BEAMS $F_b = 2400 \text{ PSI}; F_v = 265 \text{ PSI}; E = 1,800,000 \text{ PSI}$

THESE MEMBERS ARE NOTED AS '*' IN PLAN

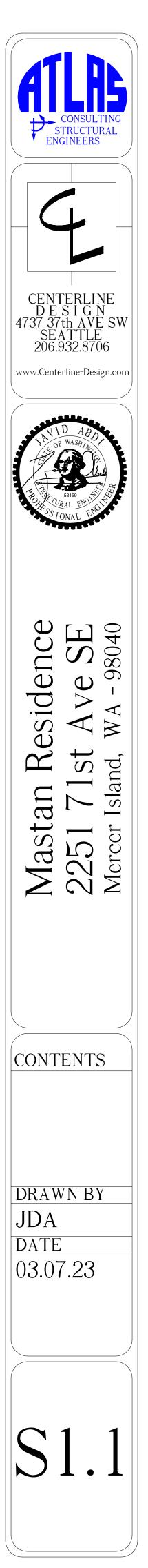
GLUED LAMINATED MEMBERS EXPOSED TO WEATHER OR MOISTURE SHALL BE TREATED WITH A NON-CORROSIVE. APPROVED PRESERVATIVE.

23. ROOF & WALL SHEATHING SHALL BE APA RATED, EXTERIOR OR EXPOSURE 1 PLYWOOD OR ORIENTED STRAND BOARD (OSB) IN CONFORMANCE WITH SBC SECTION 2303.1.5. SHEATHING SHALL BE MANUFACTURED UNDER THE PROVISIONS OF VOLUNTARY PRODUCT STANDARDS DOC PS 1-09, PS 2-10. OR APA PRP-108 PERFORMANCE STANDARDS AND POLICIES FOR STRUCTURAL USE PANELS. SEE DRAWINGS FOR THICKNESS, SPAN RATING, AND NAILING REQUIREMENTS.

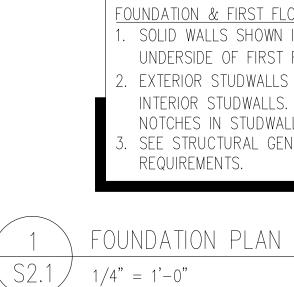
Minimum Connectors and Easteners for Wood Members per SPC 2019

| WITH ACI 318-14 = 4,000 PSI (4,500 | 24. PREFABRICATED CONNECTOR PLATE WOO ACCORDANCE WITH ANSI/TPI I-2007 AN ON THE DRAWINGS. DESIGN LOADS SHAL | ID IBC SECTION 2303.4 FOR TH | |
|--|--|---|--|
| ERIAL RATIO FOR SURE CLASSES FO, ELOW. 0, C1) | <u>ROOF_TRUSSES</u> TOP_CHORD_LIVE_LOAD BOTTOM_CHORD_LIVE_LOAD | 25 PSF, SNOW + 0 PSF | 5 PSF, RAIN ON SNOW SURCHARGE |
| VO, C1) ATED ON DRAWINGS. ES SHALL BE | TOP CHORD DEAD LOAD BOTTOM CHORD DEAD LOAD WIND UPLIFT (TOP CHORD) | | PONENTS & CLADDING ROOF LOADS |
| IOR TO PLACING IAL, FINE AND IIO, SLUMP, 8—14, CHAPTER 26 ′THAT INFORMATION UPPLIER MAINTAINS | THE TRUSS MANUFACTURER SHALL COO PLUMBING, MECHANICAL UNITS, DUCTS, PRIOR TO TRUSS FABRICATION. THE TRU LOADS ASSOCIATED WITH SUCH ITEMS. AND APPROVED HANGER CONNECTION D SYSTEM COMPONENTS AS APPLICABLE. | AND/OR OTHER MISCELLANEOUS JSS MANUFACTURER SHALL DES THE TRUSS SHOP DRAWINGS SH | S ITEMS WITH THE CONTRACTOR IGN TRUSSES TO SUPPORT ALL ALL INCLUDE ALL DESIGN LOADS |
| CRADE 60 NFORCEMENT ORTS INDICATING WELDED WIRE NNCE WITH ACI "REINFORCEMENT AT ALL WALL AND OF 12" AT SIDES | WOOD TRUSSES SHALL UTILIZE APPROVE AND CALCULATIONS SHALL BE PROVIDED STRUCTURAL ENGINEER OF RECORD PER INDICATE SHAPES, BEARING POINTS, INT SPECIAL HIP, VALLEY, AND INTERSECTIO TRUSSES, ETC.) SHALL BE DETERMINED DRAWINGS. THE TRUSS MANUFACTURER DETAILS AND REQUIRED CONNECTION MA DETAILS FOR ALL TEMPORARY AND PER |) AS A DEFERRED SUBMITTAL T GENERAL STRUCTURAL NOTE 1 ERSECTIONS, HIPS, VALLEYS, ET N AREAS (USE OF GIRDER TRUS BY THE MANUFACTURER UNLES SHALL PROVIDE ALL TRUSS—TO ATERIALS. THE TRUSS MANUFAC | TO THE CONTRACTOR AND 3. SHOP DRAWINGS SHALL TC. EXACT COMPOSITION OF SSES, JACK TRUSSES, STEP-DOWN S OTHERWISE NOTED ON THE -TRUSS BEAM/JOIST CONNECTION TURER SHALL DESIGN AND PROVIDE |
| BENT UNLESS | 25. AT NON–SHEAR WALL EXTERIOR WALLS, (NOMINAL) WITH SPAN RATING OF ²⁴ (; PANEL EDGES); AND 8d @ 12" oc TC | WITH 8d @ 6" oc PANEL NAILII | |
| . 3" UIVALENT, AND PLACE IN STRICT STING SURFACES. HALL BE MIXED AND STRENGTH SHALL BE | 26. ALL PRESSURE-TREATED (P.T.) WOOD M GROUND AND CONTINUOUSLY PROTECTED PRESSURE-TREATED WITH DOT SODIUM EXPOSED TO WEATHER OR IN CONTACT PRESSURE-TREATED WITH ALKALINE COF OTHERWISE NOTED. AMMONIACAL COPPEL PRESERVATIVES WITH AMMONIA CARRIER GLUED LAMINATED MEMBERS EXPOSED T NON-CORROSIVE, APPROVED PRESERVAT SEE NOTE #27 FOR MATERIAL REQUIREM PRESSURE-TREATED MEMBERS. | D FROM MOISTURE (INTERIOR LC BORATE (SBX) WITHOUT NaSIO ₂ . WITH THE GROUND, WOOD MEMI PPER QUAT (ACQ-C FOR DOUG R ZINC ARSENATE (ACZA) PRES S, SHALL NOT BE USED. O WEATHER OR MOISTURE SHAI TIVE. | DCATIONS) SHALL BE AT LOCATIONS PERMANENTLY BERS SHALL BE LAS—FIR) PRESERVATIVE UNLESS SERVATIVE OR OTHER LL BE TREATED WITH A |
| DNS IBC REF. D, 1908.4 | 27. TIMBER CONNECTORS CALLED OUT BY L COMPANY, AS SPECIFIED N THEIR WOOD INSTALL NUMBER AND SIZE OF FASTENE INSTALLED IN ACCORDANCE WITH THE M CONNECT TWO MEMBERS, CENTER STRAF SPECIFIED BY MANUFACTURER, WITH EQ BOLTS IN WOOD MEMBERS SHALL CONFO NUTS OF ALL BOLTS AND LAG SCREWS AND THE SAME GRADE (MINIMUM) AS M | CONSTRUCTION CONNECTORS (RS AS SPECIFIED BY MANUFAC ANUFACTURER'S INSTRUCTIONS. ON JOINT AND INSTALL NUMB JAL NUMBER AND SIZE OF FAS ORM TO ASTM A307. INSTALL W BEARING ON WOOD. ALL SHIMS | CATALOG NO. C-C-2017-18. TURER. CONNECTORS SHALL BE WHERE CONNECTOR STRAPS ER AND SIZE OF FASTENERS AS TENERS IN EACH MEMBER. ALL ASHERS UNDER THE HEADS AND |
| 4 4 | ALL TIMBER CONNECTORS IN CONTACT A CHEMICALS OTHER THAN DOT SODIUM B Z _{MAX} STEEL BY SIMPSON (G185 STEEL P ALTERNATIVELY, CONNECTORS CAN BE F GALVANIZED PER ASTM B695, CLASS 55 WITH STAINLESS STEEL CONNECTORS, AT USED WITH GALVANIZED CONNECTORS. | ORATE (SBX) WITHOUT NoSIO ₂ S ER ASTM A653), OR TYPE 304 POST HOT DIP GALVANIZED PER 5 OR GREATER. STAINLESS STEE | SHALL BE MANUFACTURED FROM OR 316 STAINLESS STEEL. ASTM A123 OR MECHANICALLY EL FASTENERS SHALL BE USED |
| 9, 1904.1, 1904.2, 1908.2, 1908.3 5, 1908.10 5 1908.6, 1908.7, 1908.8 1908.8 | SBC. MINIMUM NAILING SHALL NER-272. COORDINATE THE ARCHITECTURAL DRAWINGS. II AND LAG SCREWS BEARING C | SHALL BE CONSTRUCTED TO TH . CONFORM TO SBC TABLE 230 SIZE AND LOCATION OF ALL OP | HE MINIMUM STANDARDS OF THE 4.9.1 OR CURRENT ICC-ES REPORT ENINGS WITH MECHANICAL AND IEADS AND NUTS OF ALL BOLTS G SCREWS SHALL CONFORM TO |
| .1 .3 2 (b) | UNLESS NOTED OTHERWISE N FLOOR SPACES TO SUPPORTS ALL STUD WALLS SHALL HAV BELOW WITH 16d NAILS @ 12 BOLTS @ 4'-O" oc PER SBC x 0.229" PLATE WASHERS SH INSTALLED PER AF&PA SDPW | E THEIR LOWER WOOD PLATES " oc STAGGERED OR BOLTED T SECTION 2308.6 (EMBED 7"), U HALL BE USED WITH ALL SILL P | FOR WOOD COLUMN THROUGH ATTACHED TO WOOD FRAMING O CONCRETE WITH 5%"Ø ANCHOR JNLESS OTHERWISE NOTED. 3" x 3" LATE ANCHOR BOLTS AND WIDUAL MEMBERS OF BUILT-UP |
| DNFORMANCE WITH WESTERN LUMBER | JOISTS TO SUPPORTS WITH (BEAMS WITH SIMPSON METAL | INSTALL SOLID BLOCKING AT AL 2)16d NAILS. ATTACH TIMBER J JOIST HANGERS IN ACCORDAN R WITH 16d@12"oc STAGGERED. | OISTS TO FLUSH HEADERS OR CE WITH NOTES ABOVE. NAIL ALL |
| PSI, E = 1400 KSI PSI, F _t = 325 PSI | ROOF AND FLOOR SHEATHING AND NAILED AS SHOWN ON ⁻ BETWEEN JOISTS/TRUSSES A | SHALL BE LAID UP WITH GRAI THE DRAWINGS. INSTALL APPRO T UNBLOCKED ROOF SHEATHING | N PERPENDICULAR TO SUPPORTS VED PANEL EDGE CLIPS CENTERED EDGES. ALL FLOOR SHEATHING |
| PSI, E = 1600 KSI PSI, F _t = 575 PSI PSI, F = 1700 KSI | SOLID BLOCKING ALLOW 🔏 S SHEATHING. TOENAIL BLOCKIN | PACING AT ALL PANEL EDGES IG TO SUPPORTS WITH 16d@12" | |
| PSI, E = 1700 KSI PSI, F _t = 675 PSI PSI, E = 1600 KSI PSI, F _t = 675 PSI | OTHER THAN NAILS SUBJECT | ALL BE POSITIVELY ANCHORED TO WITHDRAWAL. ANCHOR WITH CK JOISTS AND TO A SOLID BLO | |
| PSI, E = 1700 KSI | | AMETER AND LENGTH SHALL BE | |
| PSI, $F_t = 675$ PSI PSI, $E = 1600$ KSI PSI, $F_t = 825$ PSI | SHEATHING NAILS | <u>NAIL SIZE ON DRAWINGS</u> 8d 10d | <u>DIAMETER x LENGTH</u> 0.131" x 2¼" 0.148" x 2½" |
| | FRAMING NAILS | 10d | 0.148" x 3" |

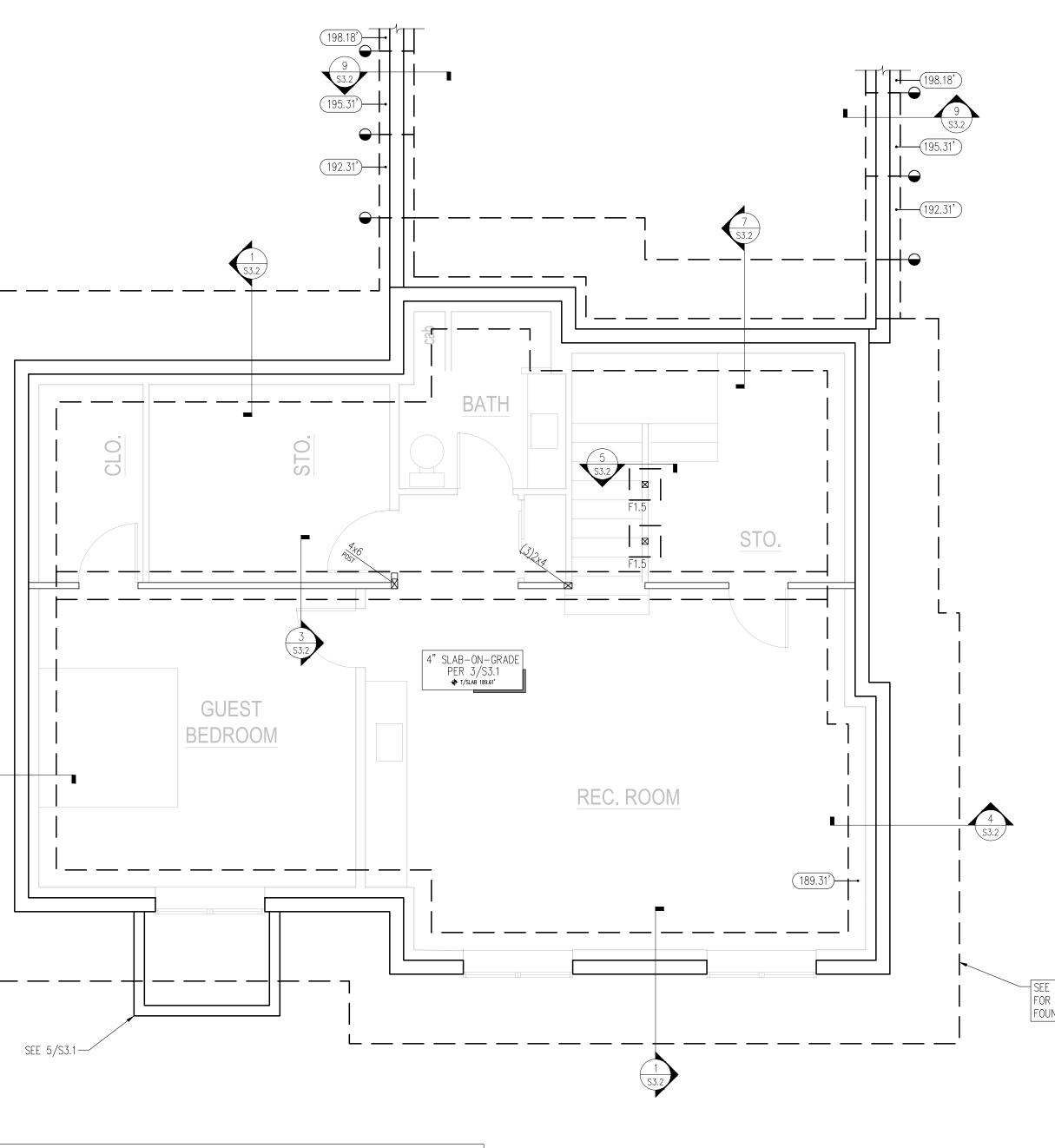
| Mi | nimum Conneo | ctors and Fasteners fo | or Wood Me | mbers per SBC 2 | 018 | | | |
|-----|--|---|--|--|--|---|--|--|
| DES | CRIPTION OF BLDG. ELEMENT | NUMBER AND TYPE OF FASTENERS | SPACING & LOCATION | DESCRIPTION OF BLDG. ELEMENT | NUMBER AND TYPE OF FASTENERS WALL (CONTINUED) | SPACING & LOCATION | | |
| 1. | BLOCKING BETWEEN CEILING JOISTS, RAFTERS, OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW | 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_{16} " CROWN | EACH END, TOENAIL | 15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING AT SHEARWALL | 2-16d COMMON $(3\frac{1}{2} \times 0.162^{\circ})$; or 3-16d BOX $(3\frac{1}{2} \times 0.135^{\circ})$; or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN | 16" oc FACE NAIL | | |
| | BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TOP PLATE, TO RAFTER OR | 2-8d COMMON (2½" x 0.131") 2-3" x 0.131" NAILS 2-3" x 14 GAGE STAPLES 2-16d COMMON (3½" x 0.162") | EACH END, TOENAIL END NAIL | 16. STUD TO TOP OR BOTTOM PLATE | 4-8d COMMON ($2\frac{1}{2}$ " x 0.131"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, $\frac{7}{6}$ " CROWN | TOENAIL | | |
| | TRUSS FLAT BLOCKING TO | 3-3" x 0.131" NÀILS 3-3" x 14 GAGE STAPLES 16d COMMON (3½" x 0.162") @ 6" oc | FACE NAIL | | 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 | | |
| | TRUSS AND WEB FILLER | 3" x 0.131" NAILS @ 6" oc 3" x 14 GAGE STAPLES @ 6" oc | | 17. TOP OR BOTTOM PLATE | 3-3" x 14 GAGE STAPLES, 7/6" CROWN 2-16d COMMON (3½" x 0.162"); or | | | |
| 2. | CEILING JOISTS TO TOP PLATE | 3-8d COMMON (2½" x 0.131"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, 7/6" CROWN | EACH JOIST, TOENAIL | TO STUD | 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, 7 ₁₆ " CROWN | END NAIL | | |
| 3. | CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITION (NO THRUST) (SEE 2308.7.3.1, TABLE 2308.7.3.1) | 3–16d COMMON (3½" x 0.162"); or 4–10d BOX (3" x 0.128"); or 4–3" x 0.131" NAILS; or 4–3" x 14 GAGE STAPLES, 7/6" CROWN | FACE NAIL | 18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS 19. 1" BRACE TO EACH STUD | 2-16d COMMON $(3\frac{1}{2}$ " x 0.162"); or 3-10d BOX $(3$ " x 0.128"); or 3-3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN 2-8d COMMON $(2\frac{1}{2}$ " x 0.131"); or | FACE NAIL | | |
| 4. | CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT) | PER TABLE 2308.7.3.1 | FACE NAIL | AND PLATE | 2-10d BOX (3° x 0.128"); or 2-3" x 0.131" NAILS; or 2-3" x 14 GAGE STAPLES, 7_{16} " CROWN | FACE NAIL | | |
| 5. | COLLAR TIE TO RAFTER | 3-10d COMMON (3" x 0.148"); or 4-10d BOX (3" x 0.128"); or | FACE NAIL | 20. 1" x 6" SHEATHING TO EACH BEARING | 2-8d COMMON (2½" x 0.131"); or 2-10d BOX (3" x 0.128"); or | FACE NAIL | | |
| 6. | RAFTER OR ROOF TRUSS TO TOP PLATE (SEE | 4-3" x 0.131" NAILS; or $4-3$ " x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN 3-10d COMMON (3" x 0.148"); or $7-10d = 200 (\frac{71}{10} + 0.0176") = 100 (\frac{71}{10} + 0.0176")$ | TOENAIL | 21. 1" x 8" AND WIDER SHEATHING TO EACH BEARING | 3-8d COMMON (2½" x 0.131"); or 3-10d BOX (3" x 0.128"); or | FACE NAIL | | |
| | 2308.7.5, TABLE 2308.7.5) | 3–16d BOX (3½" x 0.135"); or 4–10d BOX (3" x 0.128"); or 4–3" x 0.131" NAILS; or 4–3" x 14 GAGE STAPLES, 7/6" CROWN | | 22. JOIST TO SILL, TOP PLATE, OR GIRDER | FLOOR 3-8d COMMON (2½" x 0.131"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or | TOENAIL | | |
| 7. | ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2" RIDGE BEAM | 2-16d COMMON $(3\frac{1}{2}$ " x 0.162"); or 3-10d BOX (3" x 0.128"); or 3-3" x 0.131 NAILS; or 3-3" x 14 GAGE STAPES, $\frac{7}{16}$ " CROWN 3-10d COMMON $(3\frac{1}{2}$ " x 0.148"); or 3-16d BOX $(3\frac{1}{2}$ " x 0.135"); or | END NAIL | 23. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL, OR OTHER FRAMING BELOW | 3-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN 8d COMMON (2½" x 0.131"); or 10d BOX (3" x 0.128"); or 3" x .131" NAILS; r 3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN | 6" o.c., TOENAIL | | |
| | | 4–10d BOX (3" x 0.128"); or 4–3" x 0.131 NAILS; or 4–3" x 14 GAGE STAPES, 7 ₆ " CROWN | | 24. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST | 2-8d COMMON (2½" x 0.131"); or 2-10d BOX (3" x 0.128") | 6" o.c., TOENAIL FACE NAIL FACE NAIL EA. BEARING, FACE NAIL | | |
| 8. | STUD TO STUD (NOT AT | WALL 16d COMMON (3½" x 0.162")" | 24" oc FACE NAIL | 25. 2" SUBFLOOR TO JOIST OR GIRDER | 2-16d COMMON (3½" x 0.162") | FACE NAIL | | |
| | SHEARWALL CHORDS) | 10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or | 16" oc FACE NAIL | 26. 2" PLANKS (PLANK & BEAM – FLOOR & ROOF) | 2-16d COMMON (3½" × 0.162")" | | | |
| 9. | STUD TO STUD AND ABUTTING STUDS AT INTERSECTION WALL | $3-3" \times 14$ GAGE STAPLES, $\frac{7}{6}"$ CROWN 16d COMMON ($3\frac{1}{2}" \times 0.162"$)"; or 16d BOX ($3\frac{1}{2}" \times 0.135"$)"; or | 16" oc FACE NAIL 12" oc 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 | | |
| 10. | CORNERS BUILT-UP HEADER | 3" x 0.131" NAILS; or 3–3" x 14 GAGE STAPLES, 7/6" CROWN 16d COMMON (3½" x 0.162")"; or | 12" oc FACE NAIL 16" oc EA. EDGE, | | 10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or 3" x 14 GAGE STAPLES, ½6" CROWN | 24" o.c., FACE NAIL AT TOP & BOT. STAGGERED ON OPP. SIDES | | |
| | (2" TO 2" HDR.) | 16d BOX (3½" x 0.135") | FACE NAIL 12" oc EA. EDGE, FACE NAIL | | AND: 2-20d COMMON (4" x 0.192"); or | ENDS AND AT EACH SPLICE, | | |
| 11. | CONTINUOUS HEADER TO STUD | 4-8d COMMON (2½" × 0.131"); or 4-10d BOX (3" × 0.128") | TOENAIL | | 3-10d BOX (3" x 0.128"); or 3-3" x 0.131" NAILS; or 3-3" x 14 GAGE STAPLES, 7 ₆ " CROWN | FACE NAIL | | |
| 12. | TOP PLATE TO TOP PLATE | 16d COMMON (3½" x 0.162"); or 10d BOX (3" x 0.128"); or 3" x 0.131" NAILS; or | 16" oc FACE NAIL 12" oc FACE NAIL | 28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS | 3-16d COMMON (3½" x 0.162"); or 4-10d BOX (3" x 0.128"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, ½6" CROWN | EACH JOIST OR RAFTER, FACE NAIL | | |
| 13. | TOP PLATE TO TOP PLATE, AT END JOINTS | 3" x 14 GAGE STAPLES, 7/6" CROWN 8-16d COMMON (3½" x 0.162"); or 12-10d BOX (3" x 0.128"); or 12-3" x 0.131" NAILS; or 12-3" x 14 GAGE STAPLES, 7/6" CROWN | EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EA. SIDE OF END JOINT | 29. JOIST TO BAND JOIST OR RIM JOIST | 3-16d COMMON $(3\frac{1}{2}$ " x 0.162"); or 4-10d BOX $(3$ " x 0.128"); or 4-3" x 0.131" NAILS; or 4-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN | END NAIL | | |
| 14. | BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST, OR BLOCKING NOT AT SHEARWALL | 16d COMMON (3½" x 0.162")"; or 16d BOX (3½" x 0.135")"; or 3" x 0.131" NAILS; or 3" x 14 GAGE STAPLES, ½6" CROWN | 16" oc FACE NAIL 12" oc FACE NAIL | 30. BRIDGING OR BLOCKING TO JOIST, RAFTER, OR TRUSS | 2-8d COMMON ($2\frac{1}{2}$ " x 0.131"); or 2-10d BOX (3" x 0.128"); or 2-3" x 0.131" NAILS; or 2-3" x 14 GAGE STAPLES, $\frac{7}{16}$ " CROWN | EACH END, TOENAIL | | |



| CONCRETE FOUNDATION |
|--|
| STEP IN FOOTING PER 6/S3.1 |
| CONCRETE WALL |
| DENOTES TOP OF FOOTING ELEVATION |
| STRUCTURAL WOOD STUDWALL ABOVE |
| POST ABOVE |
| DENOTES SHEARWALL TENSION TIE PER 4/S6.5 or 8/S6.5 * – denotes transfer tie from tie above ^S – denotes tie atop steel beam, see 8/S6.5 |
| |



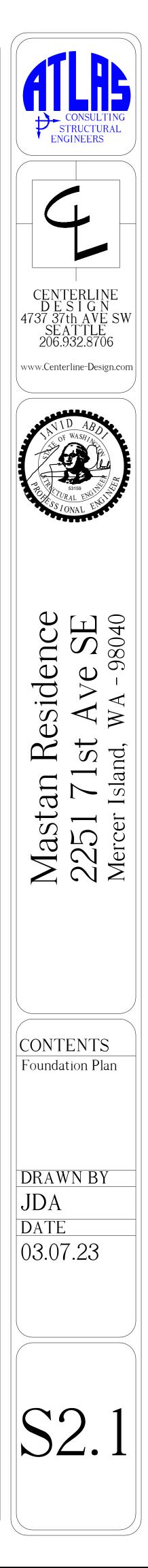
4 \$3.2



FOUNDATION & FIRST FLOOR PLAN NOTES 1. SOLID WALLS SHOWN IN PLAN ARE ABOVE FOUNDATION LEVEL (FROM FOUNDATION TO UNDERSIDE OF FIRST FLOOR FRAMING). 2. EXTERIOR STUDWALLS SHALL BE 2x6 STUDS @ 16" oc (MAX). SEE ARCHITECTURAL FOR

INTERIOR STUDWALLS. SEE 6/6.2, 5/S6.2, AND 2/S6.2 FOR ALLOWABLE HOLES & NOTCHES IN STUDWALL STUDS AND TOP & BOTTOM PLATES.
3. SEE STRUCTURAL GENERAL NOTES #14 - 19 FOR CONCRETE AND CONCRETE REINFORCING

NORTH



SEE TABLE ON 1/S3.2 FOR ACCEPTABLE FOUNDATION DIMS, TYP.

| <u>LE</u> | <u>GEND</u> | | | ^{low} $ eta^{high} $ | S | STEP IN FOOTING PER 6/S3.1 |
|-----------|-------------|------------------------|-------------------------|-------------------------------|--------------|---|
| [| j | CONCRETE | WALL BELOW | г — — | _ c | CONCRETE FOUNDATION |
| I = | 1 | STRUCTURA STUDWALL | | SW | S | DENOTES EXTENT OF SHEARWALL TYPE SW—_ PER 1/S6.5 🛆 |
| | | STRUCTURA STUDWALL | | SW* | 7 | DENOTES STRAPPED SHEARWALL PER 7/S6.5, WITH DENOTING STRAP PER SCHEDULE ABOVE & BELOW OPENING |
| | [] | POST BELC | W | | | |
| | | POST ABOV | VE | HDU MSTC | → P | DENOTES SHEARWALL TENSION TIE PER 4/S6.5 or 8/S6.5 – denotes transfer tie from tie above |
| | | WOOD JOIS | | irap x length – | S S | - DENOTES TIE ATOP STEEL BEAM, SEE 8/S6.5 |
| - | | WOOD BEAI | M or HEADER | | | DENOTES STRAP TYPE BY LENGTH, CENTERED ON ABUTTING ELEMENTS |
| | | NNECTOR DESIGNATION | NOTES | | | |
| | | -SDS2.5 | POST CAP | 3 | | |
| | | 81/11 | TOP FLANGE HANGER | 3 | | |
| | | or IUS RNER CAP | HANGER POST CAP | 2 | | |
| | | 12-SDS | CONCEALED FLANGE HANGER | 3 | | |
| | | r LUS | HANGER | 3 | | |
| | | HHUS | HANGER | 1 t | | |
| (| | S414 | HANGER | } | | |
| | | 5.50/10 | HANGER | 3 | | |
| ⊁ (]) | HANGE | ER PER TRUS | S MANUFACTURER | 2 | | |

FACE MOUNT HANGER

FRAMING ANGLE

HANGER

CONCEALED FLANGE HANGER HANGER

LUS A34 AT EA. SIDE

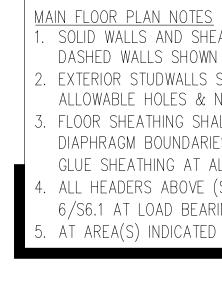
EGQ or HGUS

HUCQ1.81/11

ITS or HUS

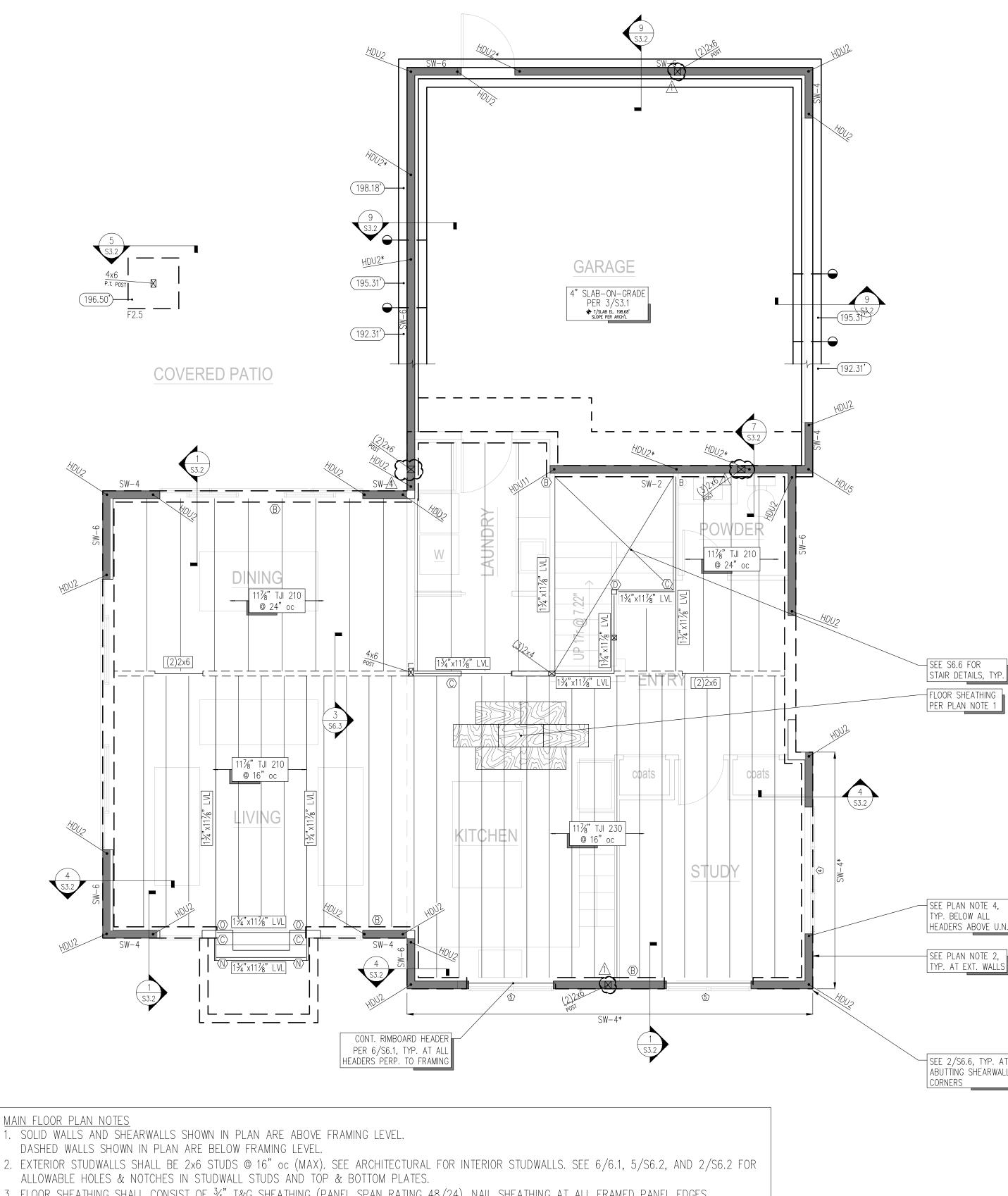
HDU2

4 S3.2 HDU2









3. FLOOR SHEATHING SHALL CONSIST OF 3/4" T&G SHEATHING (PANEL SPAN RATING 48/24). NAIL SHEATHING AT ALL FRAMED PANEL EDGES, DIAPHRAGM BOUNDARIES, BLOCKING, AND SHEAR WALLS w/ 10d @ 6" oc; AND AT ALL INTERMEDIATE SUPPORTS w/ 10d @ 12" oc (SEE 3/S6.2). GLUE SHEATHING AT ALL SUPPORTS w/ ADHESIVE CONFORMING TO ASTM SPECIFICATION D3498. 4. ALL HEADERS ABOVE (SEE 1/S2.03) SHALL HAVE A MINIMUM NUMBER OF POSTS PER 4/S6.1 AT NON-LOAD BEARING EXTERIOR WALLS, AND PER

6/S6.1 AT LOAD BEARING EXTERIOR WALLS 5. AT AREA(S) INDICATED AS BLOCKED DIAPHRAGM, INSTALL 2x FLAT BLOCKING AT ALL UNFRAMED PANEL EDGES. NAIL SHEATHING PER PLAN NOTE 3.

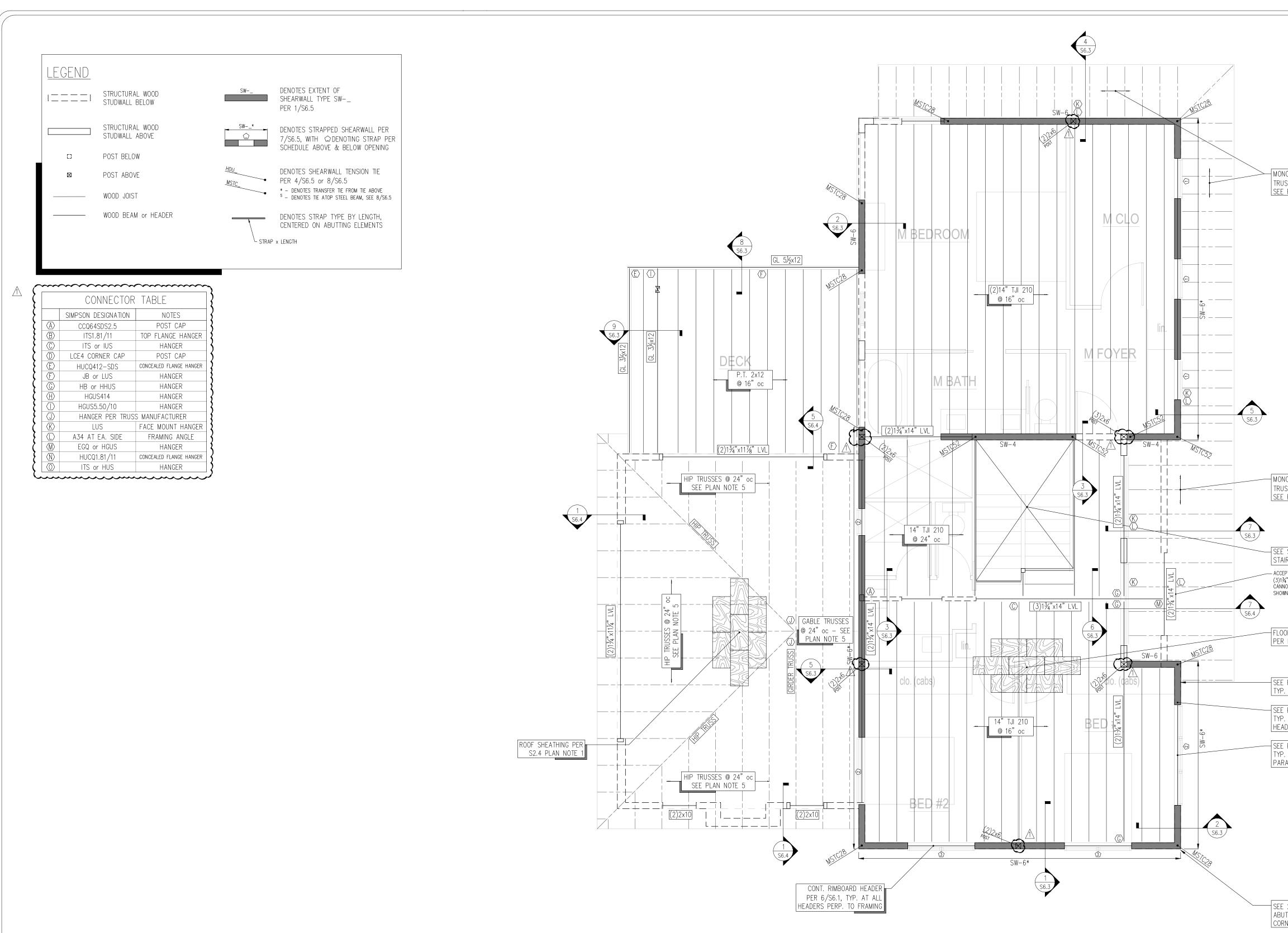


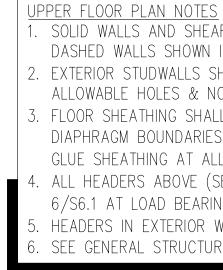


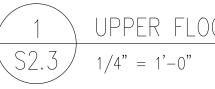
SEE S6.6 FOR STAIR DETAILS, TYP. FLOOR SHEATHING PER PLAN NOTE 1

SEE PLAN NOTE 4, TYP. BELOW ALL HEADERS ABOVE U.N.O

SEE 2/S6.6, TYP. AT ABUTTING SHEARWALL CORNERS







1. SOLID WALLS AND SHEARWALLS SHOWN IN PLAN ARE ABOVE FRAMING LEVEL.

DASHED WALLS SHOWN IN PLAN ARE BELOW FRAMING LEVEL. 2. EXTERIOR STUDWALLS SHALL BE 2x6 STUDS @ 16" oc (MAX). SEE ARCHITECTURAL FOR INTERIOR STUDWALLS. SEE 6/6.1, 5/S6.2, AND 2/S6.2 FOR ALLOWABLE HOLES & NOTCHES IN STUDWALL STUDS AND TOP & BOTTOM PLATES.

3. FLOOR SHEATHING SHALL CONSIST OF 3/4" T&G SHEATHING (PANEL SPAN RATING 48/24). NAIL SHEATHING AT ALL FRAMED PANEL EDGES,

DIAPHRAGM BOUNDARIES, BLOCKING, AND SHEAR WALLS w/ 10d @ 6" oc; AND AT ALL INTERMEDIATE SUPPORTS w/ 10d @ 12" oc (SEE 3/S6.2). GLUE SHEATHING AT ALL SUPPORTS w/ ADHESIVE CONFORMING TO ASTM SPECIFICATION D3498. 4. ALL HEADERS ABOVE (SEE 1/S2.03) SHALL HAVE A MINIMUM NUMBER OF POSTS PER 4/S6.1 AT NON-LOAD BEARING EXTERIOR WALLS, AND PER

6/S6.1 AT LOAD BEARING EXTERIOR WALLS 5. HEADERS IN EXTERIOR WALLS <u>NOT SUPPORTING RAFTERS, JOISTS, OR BEAMS</u> SHALL BE PER DETAIL 4/S6.1 U.N.O. IN PLAN.

SEE GENERAL STRUCTURAL NOTE #24 FOR CONNECTOR PLATE ROOF TRUSS REQUIREMENTS.







MONOSLOPE LOW ROOF TRUSSES @ 16" oc, SEE PLAN NOTE 5

MONOSLOPE LOW ROOF TRUSSES @ 24" oc, SEE PLAN NOTE 5

SEE S6.6 FOR STAIR DETAILS, TYP. _____ - ACCEPTABLE TO USE DROPPED (3)1¾"x11%" LVL IF TRUSSES CANNOT BE MODIFIED AS SHOWN IN 7/S6.4

FLOOR SHEATHING PER PLAN NOTE 1

SEE PLAN NOTE 2, TYP. AT EXT. WALLS

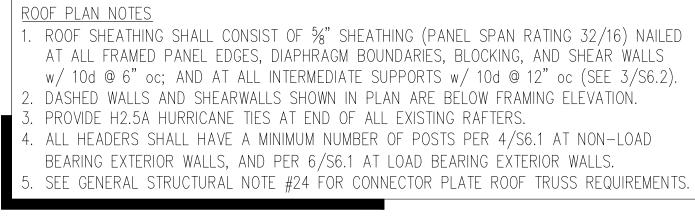
SEE PLAN NOTE 4, TYP. BELOW ALL HEADERS ABOVE U.N.O SEE PLAN NOTE 5, TYP. AT HEADERS PARALLEL TO FRAMING

SEE 2/S6.6, TYP. AT ABUTTING SHEARWALL CORNERS

LEGEND

| 1===1 | STRUCTURAL WOOD STUDWALL BELOW |
|-------|--|
| | POST BELOW |
| | CONNECTOR PLATE WOOD TRUSS |
| | WOOD RAFTER |
| | WOOD BEAM or HEADER |
| STRAP | DENOTES STRAP TYPE BY LENGTH, CENTERED ON ABUTTING ELEMENTS x length |
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| | CONNECTOR | TABLE | | | | |
|------------------------------|---------------------|-------------------------|--|--|--|--|
| | SIMPSON DESIGNATION | NOTES | | | | |
| $\langle A \rangle$ | CCQ64SDS2.5 | POST CAP | | | | |
| $\langle B \rangle$ | ITS1.81/11 | TOP FLANGE HANGER | | | | |
| $\langle 0 \rangle$ | ITS or IUS | HANGER | | | | |
| $\langle D \rangle$ | LCE4 CORNER CAP | POST CAP | | | | |
| Æ | HUCQ412-SDS | CONCEALED FLANGE HANGER | | | | |
| (F) | JB or LUS | HANGER | | | | |
| G | HB or HHUS | HANGER | | | | |
| $\langle H \rangle$ | HGUS414 | HANGER | | | | |
| $\langle \rangle$ | HGUS5.50/10 | HANGER | | | | |
| $\langle \mathbf{J} \rangle$ | HANGER PER TRUS | S MANUFACTURER | | | | |
| $\langle \mathbf{K} \rangle$ | LUS | FACE MOUNT HANGER | | | | |
| $\langle L \rangle$ | A34 AT EA. SIDE | FRAMING ANGLE | | | | |
| $\langle M \rangle$ | EGQ or HGUS | HANGER | | | | |
| $\langle \mathbb{N} \rangle$ | HUCQ1.81/11 | CONCEALED FLANGE HANGER | | | | |
| $\langle 0 \rangle$ | ITS or HUS | HANGER | | | | |





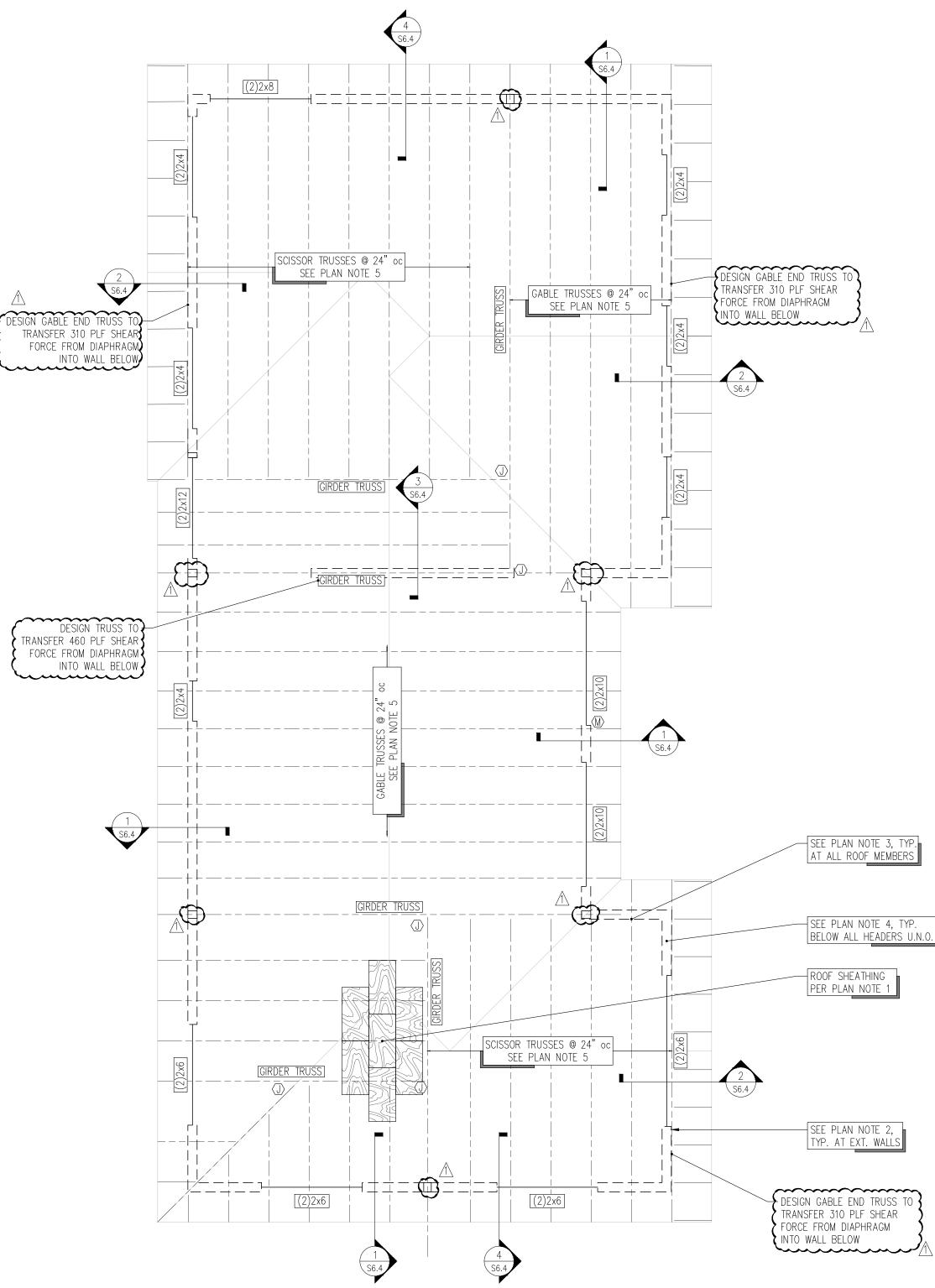
ROOF FRAMING PLAN 1/4" = 1'-0"



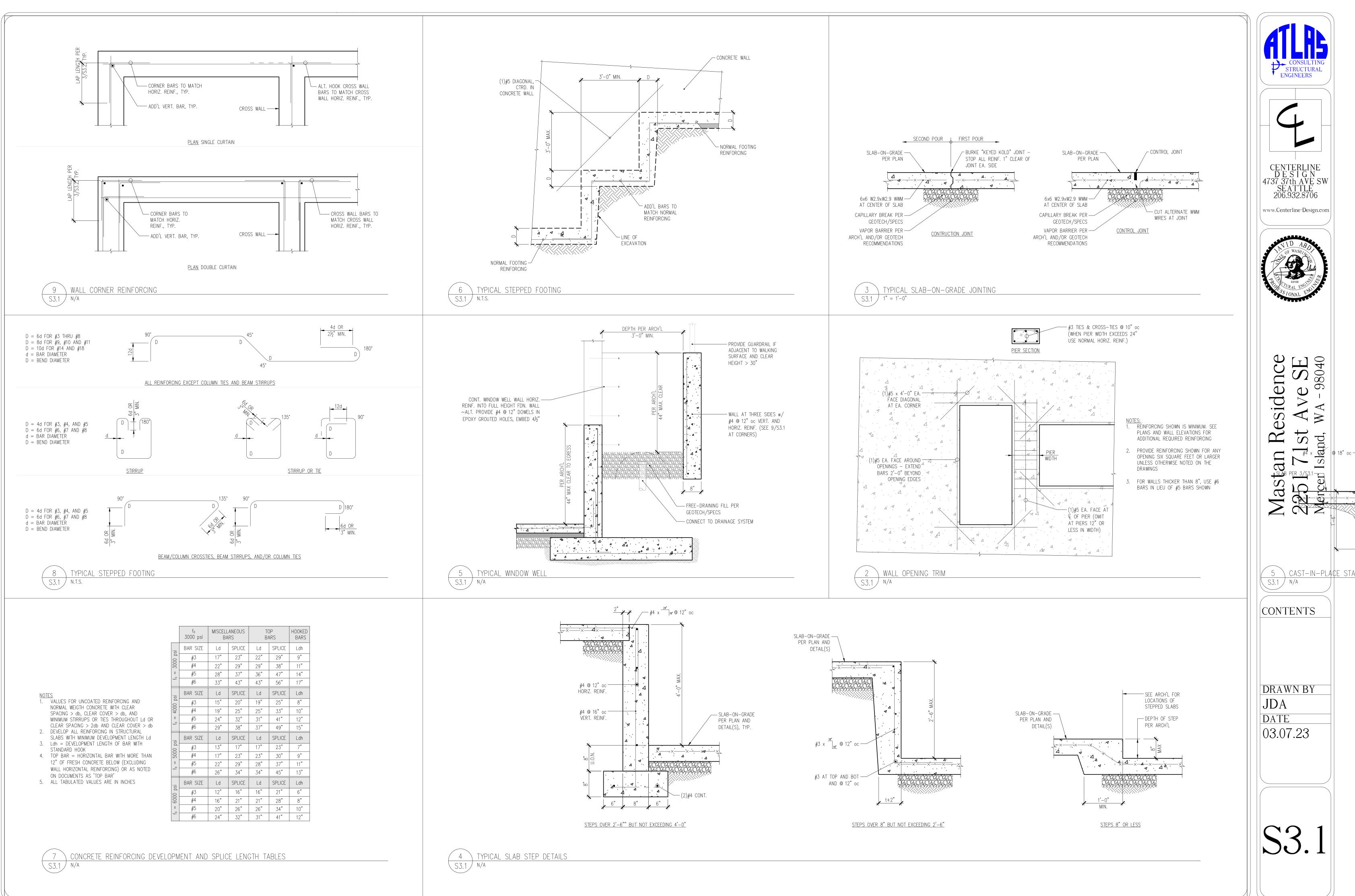
4. ALL HEADERS SHALL HAVE A MINIMUM NUMBER OF POSTS PER 4/S6.1 AT NON-LOAD BEARING EXTERIOR WALLS, AND PER 6/S6.1 AT LOAD BEARING EXTERIOR WALLS.

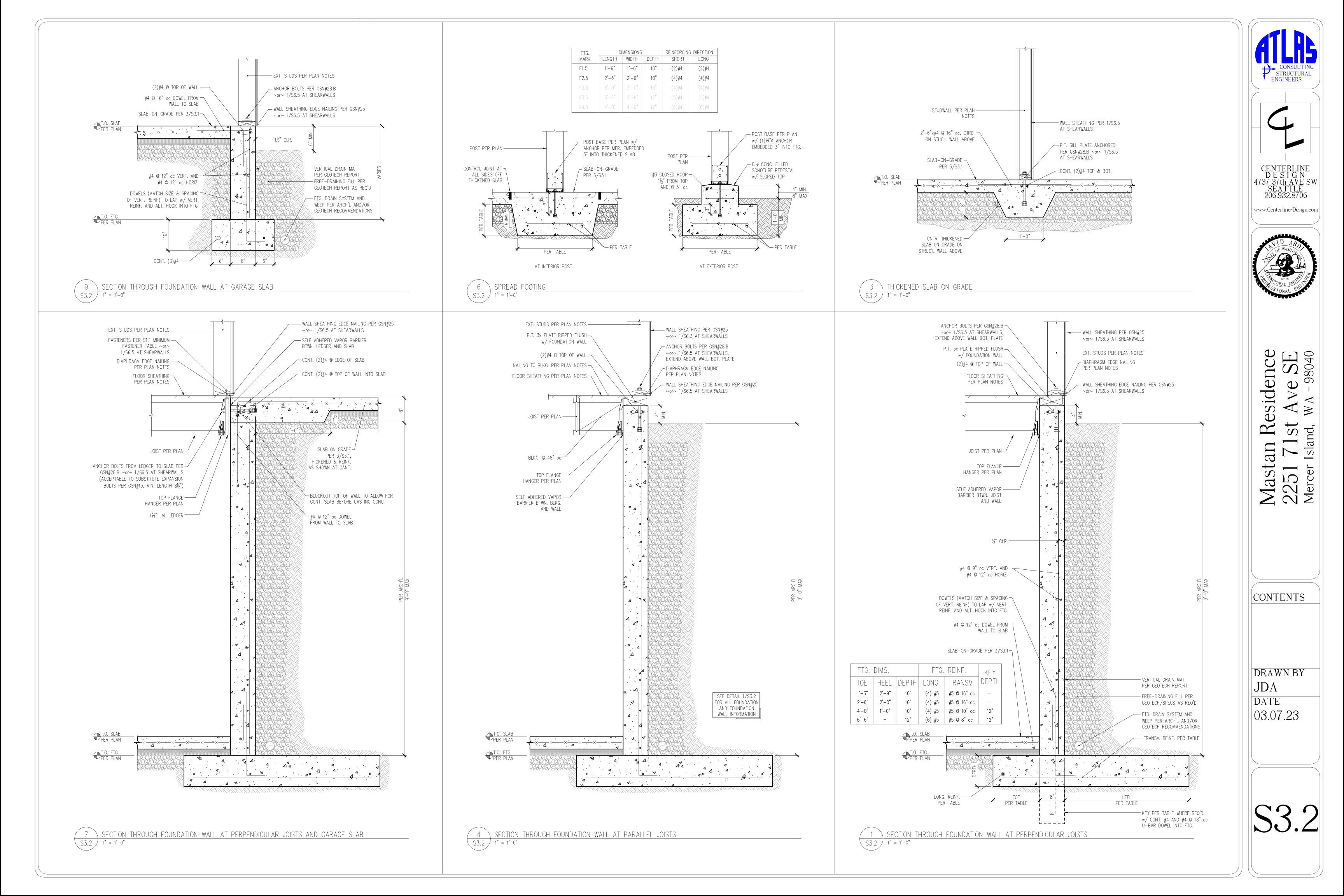
AT ALL FRAMED PANEL EDGES, DIAPHRAGM BOUNDARIES, BLOCKING, AND SHEAR WALLS w/ 10d @ 6" oc; AND AT ALL INTERMEDIATE SUPPORTS w/ 10d @ 12" oc (SEE 3/S6.2). 2. DASHED WALLS AND SHEARWALLS SHOWN IN PLAN ARE BELOW FRAMING ELEVATION. 3. PROVIDE H2.5A HURRICANE TIES AT END OF ALL EXISTING RAFTERS.

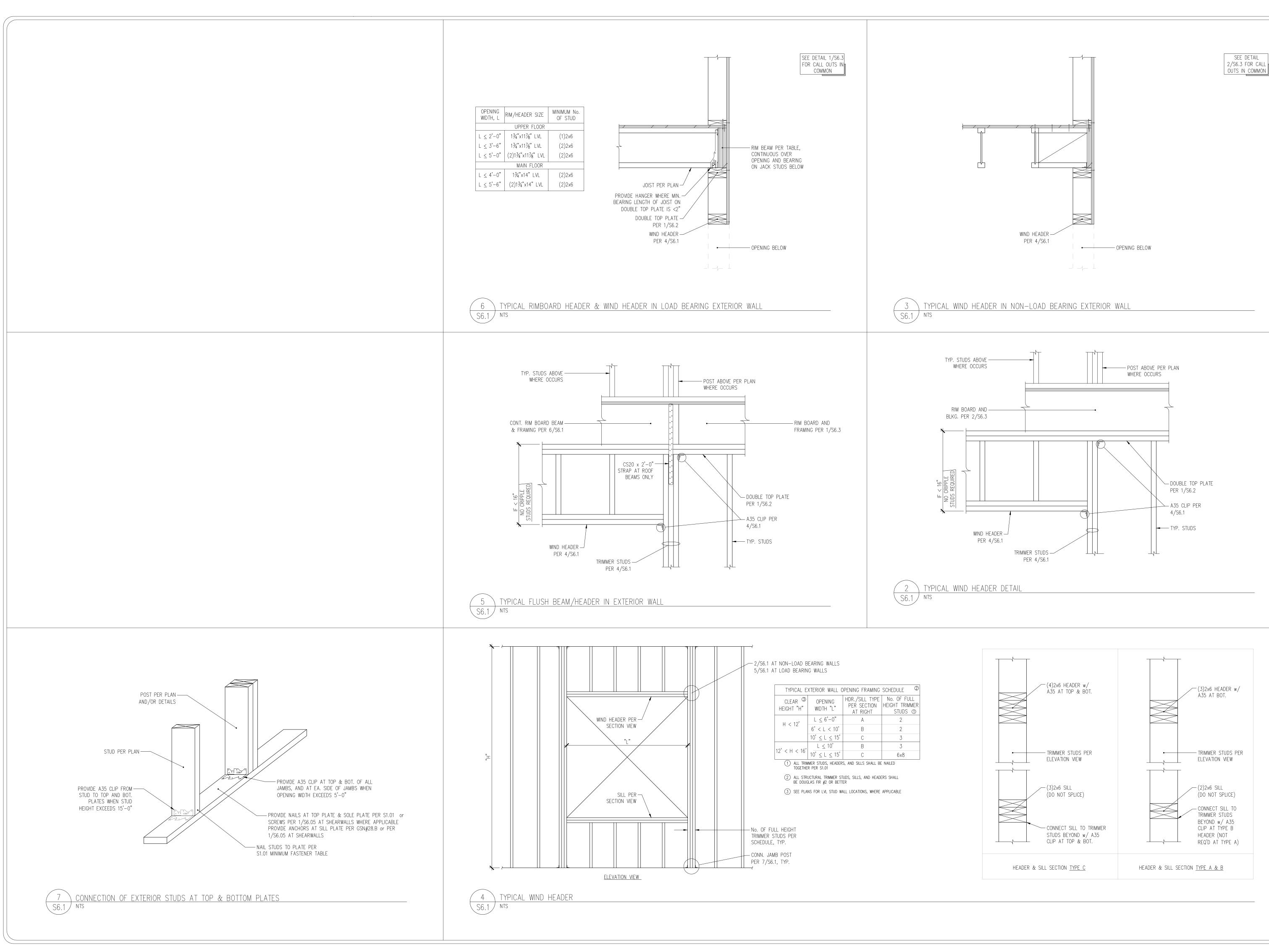
1. ROOF SHEATHING SHALL CONSIST OF 5%" SHEATHING (PANEL SPAN RATING 32/16) NAILED

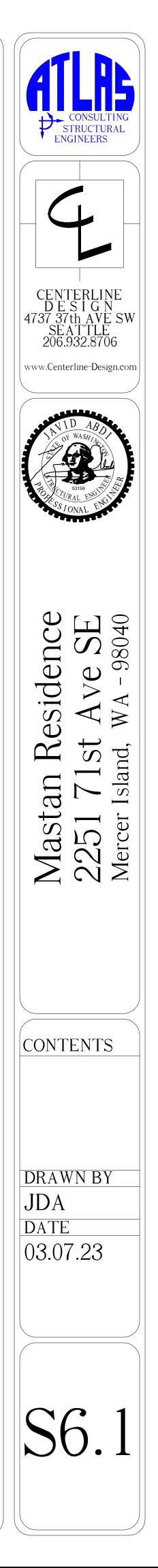


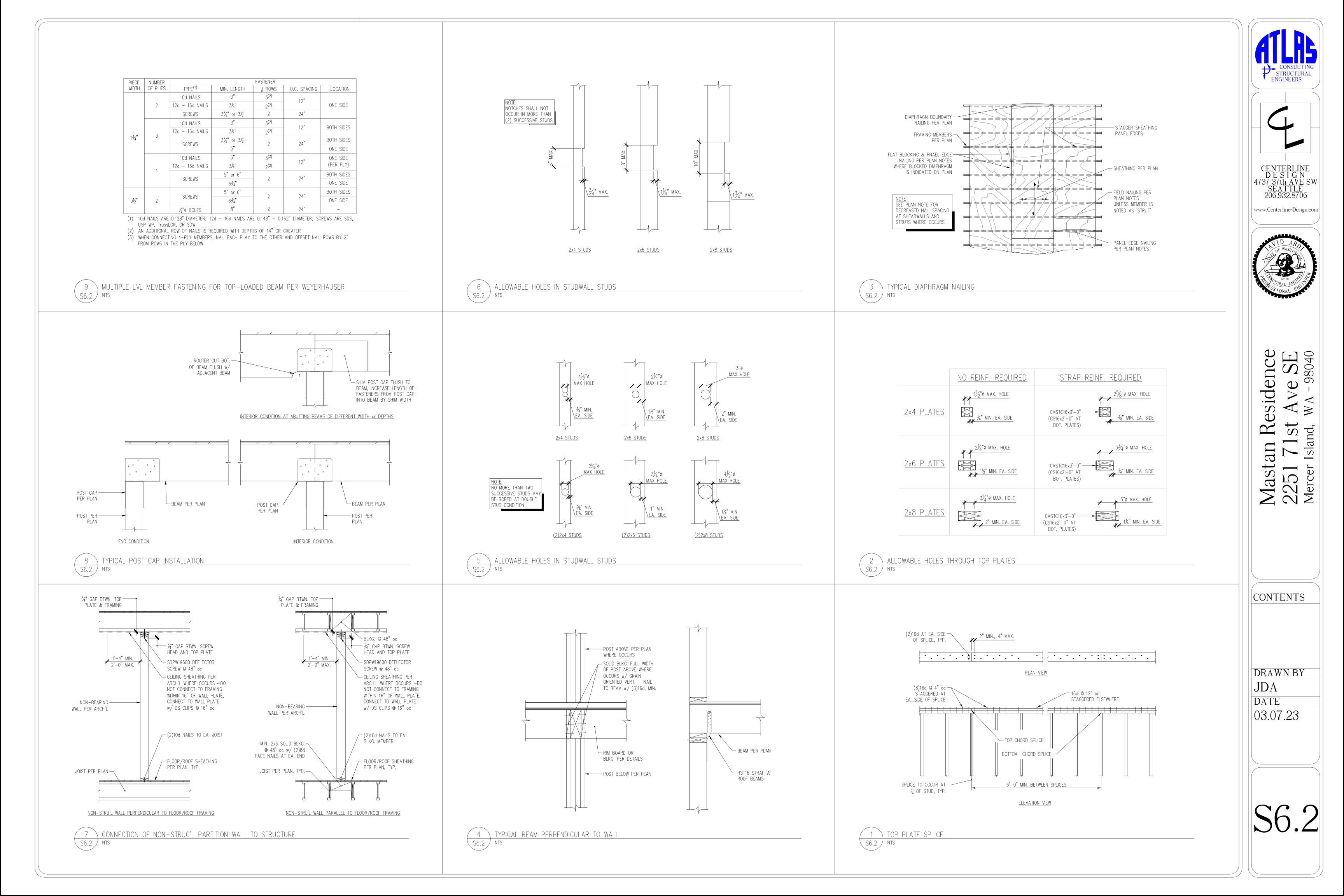


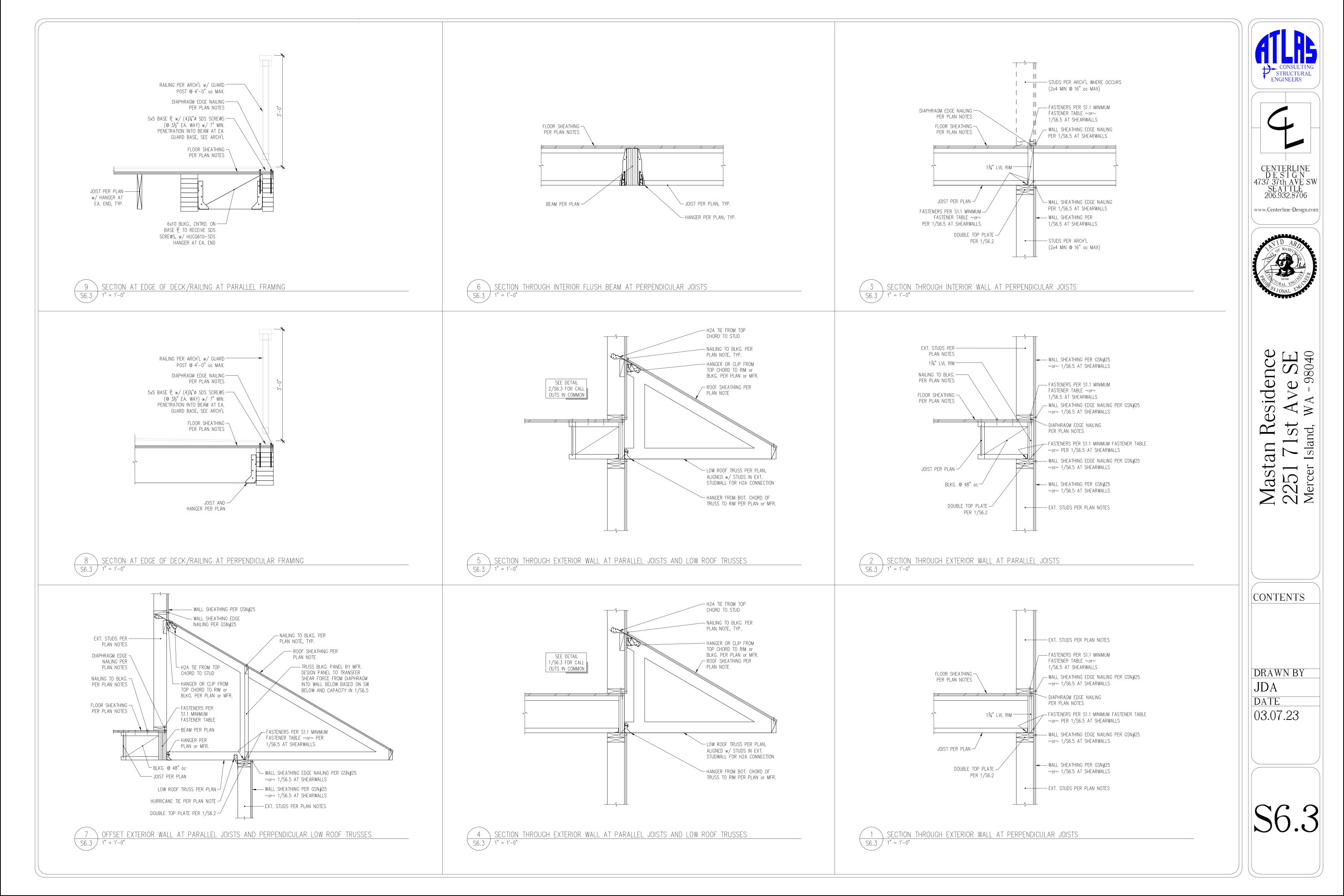


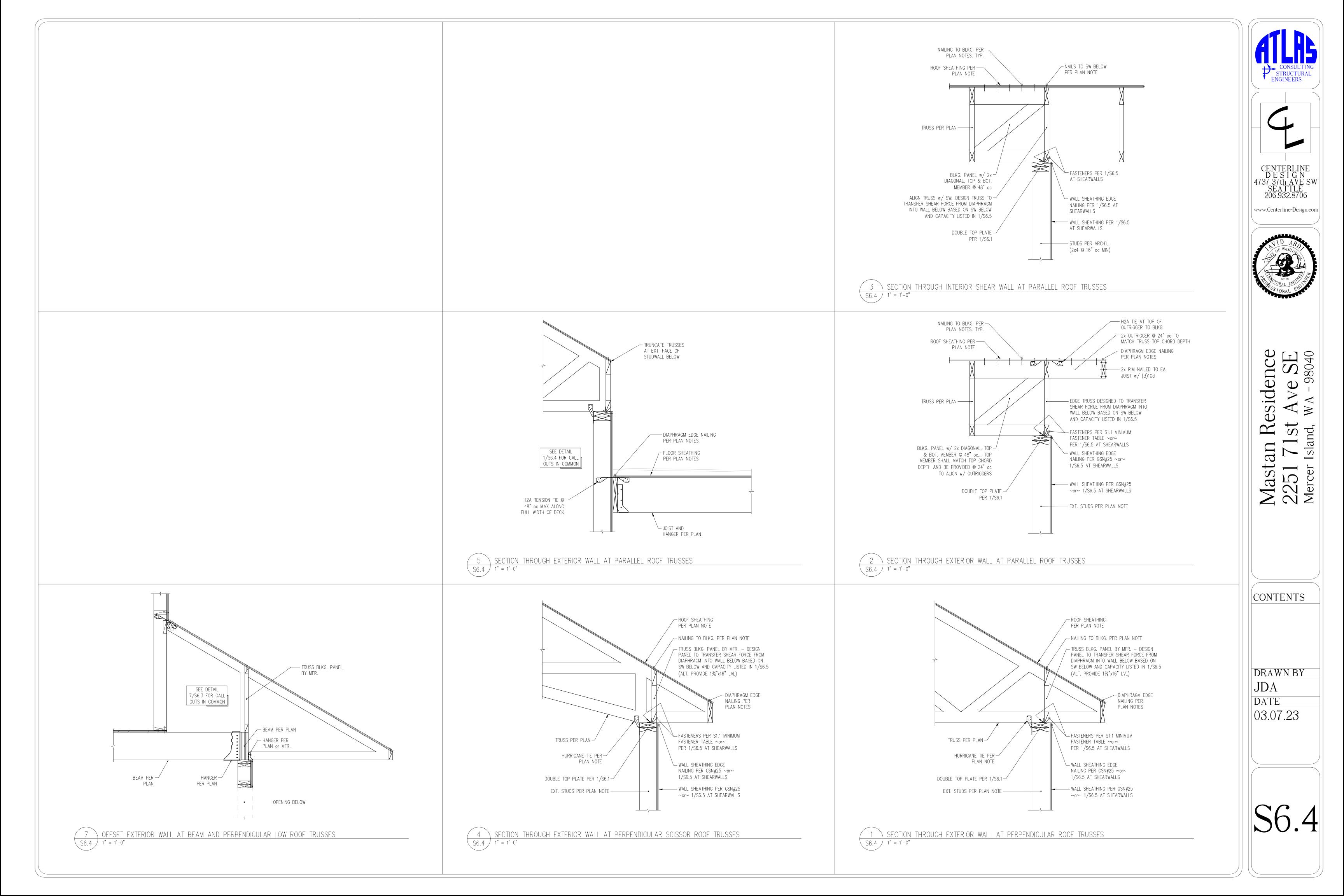




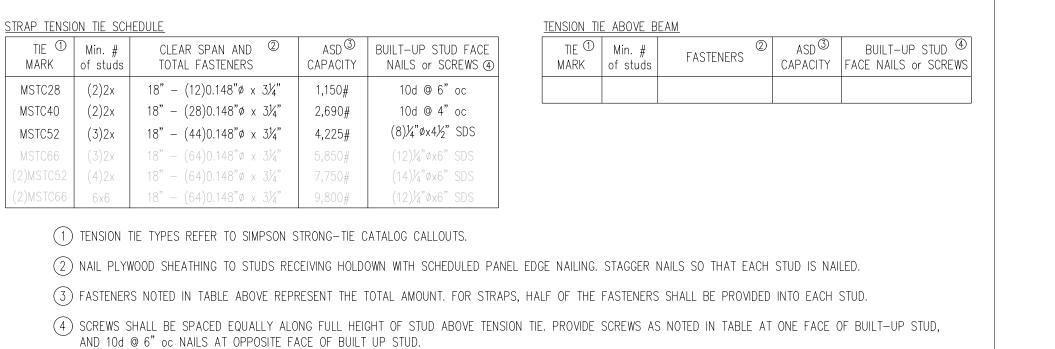


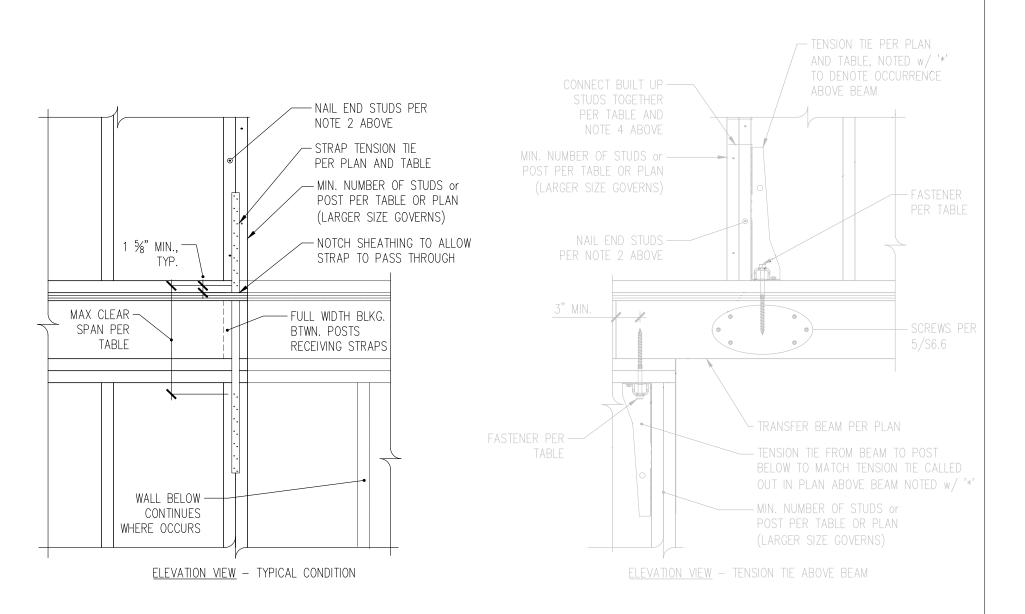






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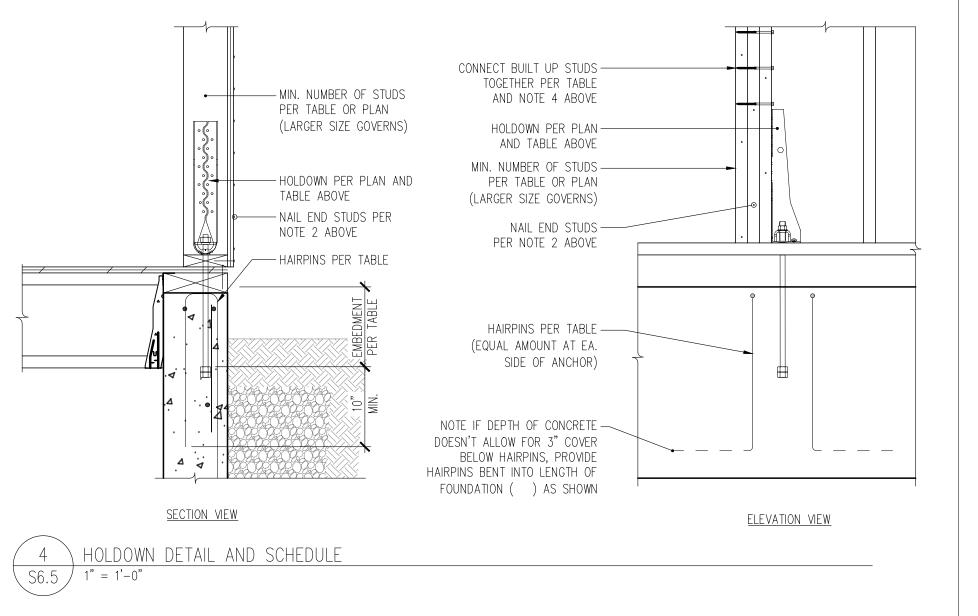
| tie ⁽¹⁾ Mark | MIN. NUMBER ^② OF STUDS | ANCHOR (Ø x EMBEDMENT) ^③ and No. OF HAIRPIN DOWELS | FASTENERS FROM TIE TO STUD | ASD CAPACITY | BUILT-UP STUD FACE NAILS or SCREWS ④ |
|----------------------------|--------------------------------------|--|-------------------------------|-----------------|---|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

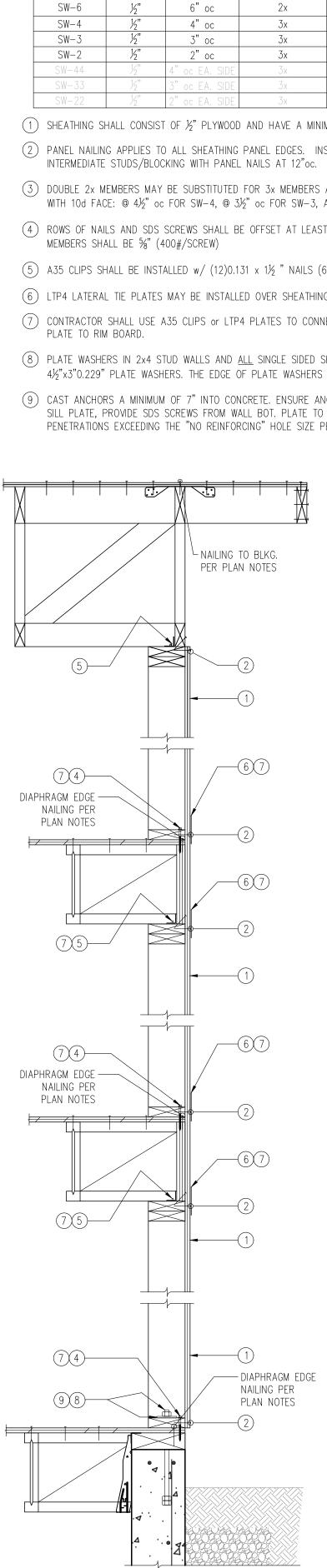
(1) TENSION TIE TYPES REFER TO SIMPSON STRONG-TIE CATALOG CALLOUTS.

(2) NAIL PLYWOOD SHEATHING TO STUDS RECEIVING HOLDOWN WITH SCHEDULED PANEL EDGE NAILING. STAGGER NAILS SO THAT EACH STUD IS NAILED.

3 ANCHORS SHALL BE HEAVY HEX HEAD WITH DOUBLE NUT CAST INTO CONCRETE. ASTM F 1554 Gr. 36 FOR % anchor ASTM F 1554 Gr. 55 FOR 76 AND 1"0 ANCHORS

(4) SCREWS SHALL BE SPACED EQUALLY ALONG FULL HEIGHT OF STUD ABOVE TENSION TIE. PROVIDE SCREWS AS NOTED IN TABLE AT ONE FACE OF BUILT-UP STUD, AND 10d @ 6" oc NAILS AT OPPOSITE FACE OF BUILT UP STUD.





SHEARWALL SHEATHING

PANEL TYPE | THICKNESS |

FRAMING PARALLEL TO SW

1" = 1' - 0"

、S6.5 /

| 2 | ③ STUD/BLKG. AT ABUTTING PANEL | to | . OF BLKG. OR FR TOP PLATE; AND S LATE TO SILL PLA | ANC BOLT | s to | ASD CAPACITY, | | |
|-------------------------------|--------------------------------------|---------------------------|--|---------------|------------|------------------|------|--|
| 0.148" x 2¼" Panel nailing | EDGES & SILL PLATE THICKNESS | ④ ¼"ø x 3½" SDS SCREWS | (5) A35 CLIPS | 6 LTP4 PLATES | COI %"ø | NC. 3⁄4"ø | PLF | |
| 6" ос | 2x | 15" oc | 25" oc | 24" oc | 48"oc | 48"oc | 310 | |
| 4" oc | Зx | 10" oc | 16"oc | 16"oc | 38"oc | 48"oc | 460 | |
| 3"ос | Зx | 8" oc | 13" oc | 12" oc | 29"oc | 40" oc | 600 | |
| 2" ос | Зx | 6"ос | 10" oc | 9" oc | 19"oc | 26"oc | 770 | |
| 4" oc EA. SIDE | 3x | 5" ос | 8" oc | 8" oc | 14" oc | 20" oc | 920 | |
| 3" oc EA. SIDE | 3x | 4" oc | 6" ос | 6" ос | 14" oc | 20" oc | 1200 | |
| 2" oc EA. SIDE | 3x | 3" ос | 5" oc | 4" oc | 11" oc | 15" oc | 1540 | |

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(1) SHEATHING SHALL CONSIST OF $\frac{1}{2}$ " PLYWOOD AND HAVE A MINIMUM SPAN RATING OF $\frac{24}{5}$. At interior shearwalls only, $\frac{15}{32}$ " osb shall be used (2) PANEL NAILING APPLIES TO ALL SHEATHING PANEL EDGES. INSTALL BLOCKING AT ALL UNFRAMED PANEL EDGES. ENSURE SHEATHING IS NAILED TO ALL

(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: @ 4½" oc FOR SW-4, @ 3½" oc FOR SW-3, AND (2)@ 5½" oc FOR SW-2.

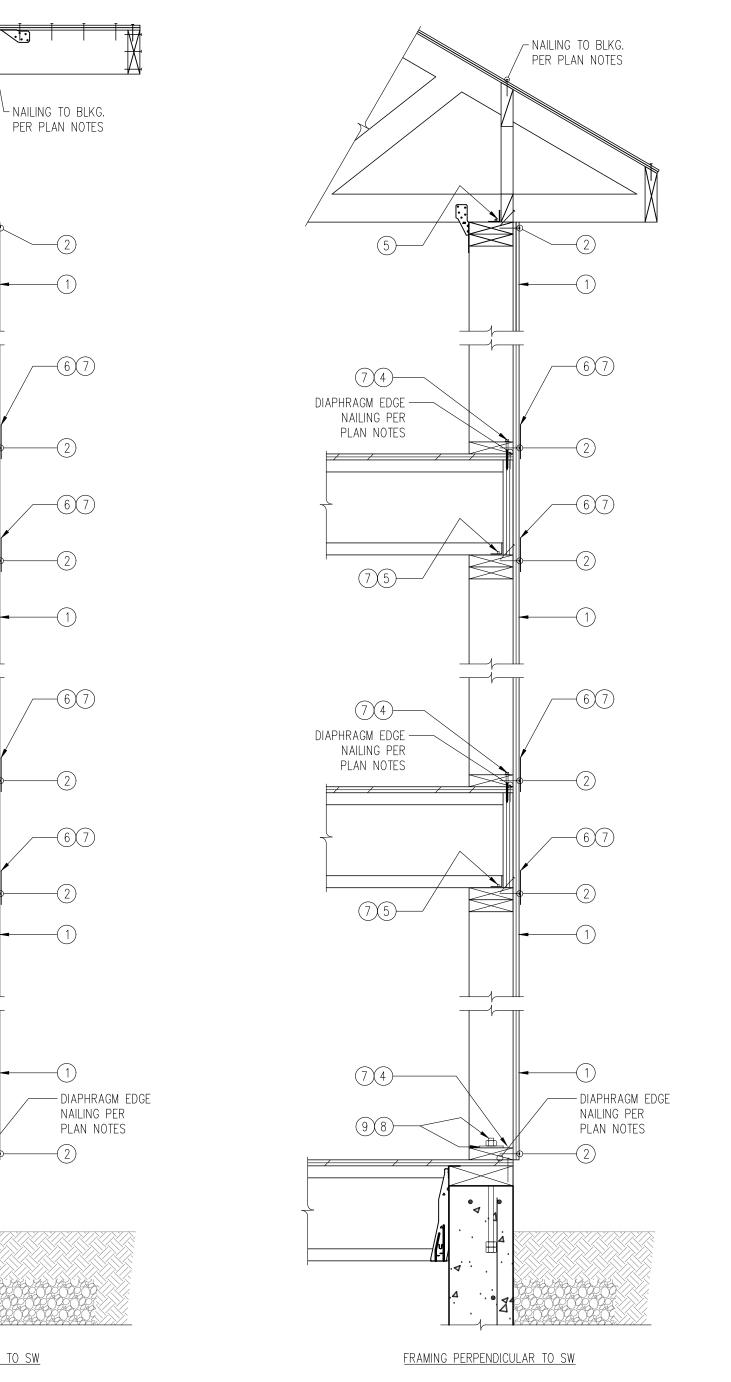
(4) ROWS OF NAILS AND SDS SCREWS SHALL BE OFFSET AT LEAST $\frac{1}{2}$ " AND STAGGERED. MINIMUM EDGE DISTANCE FOR NAILS AND SDS SCREWS INTO EDGE OF

(5) A35 CLIPS SHALL BE INSTALLED w/ (12)0.131 x $1\frac{1}{2}$ " NAILS (650#/CLIP)

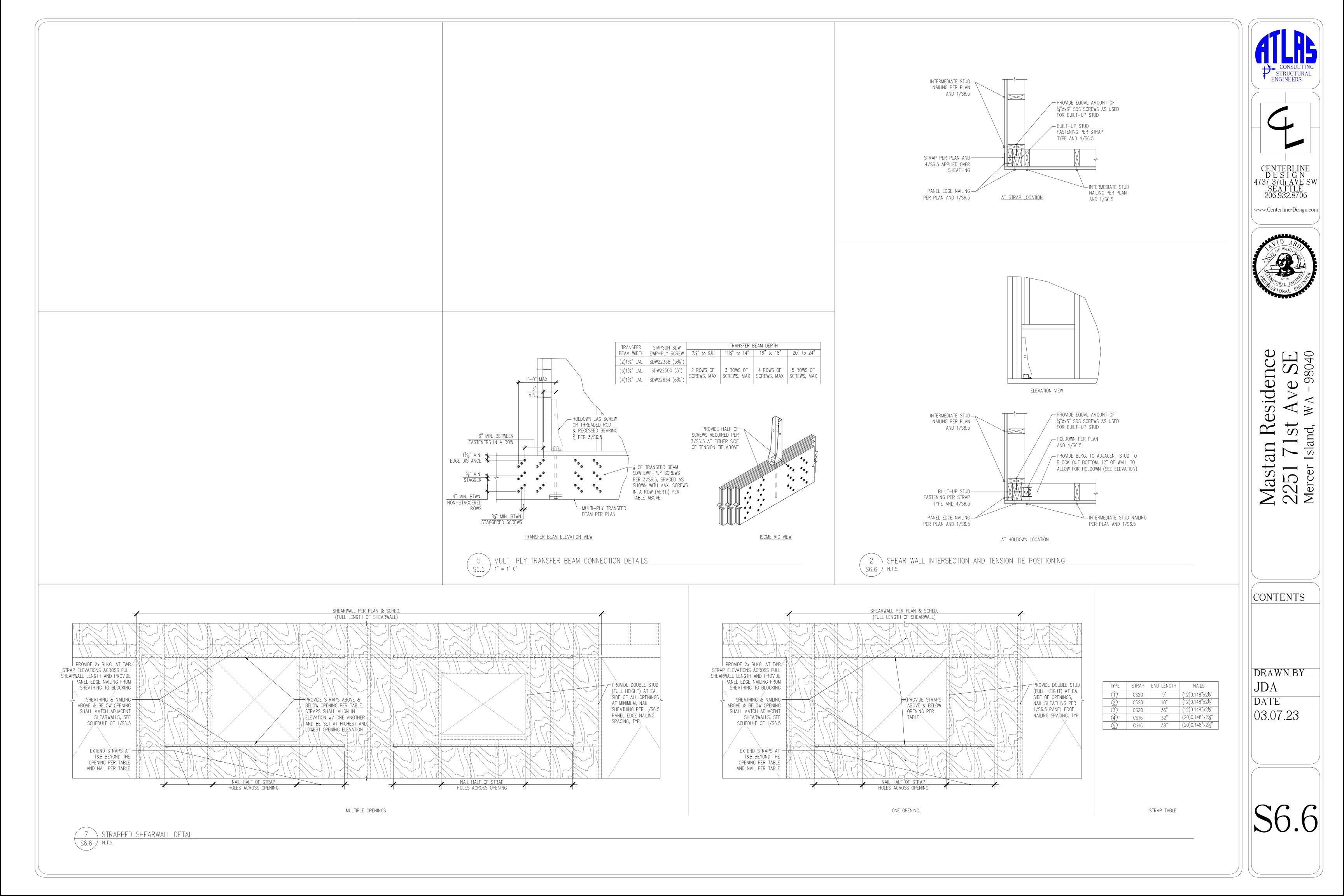
(6) LTP4 LATERAL TIE PLATES MAY BE INSTALLED OVER SHEATHING w/ (12)0.131 x $2\frac{1}{2}$ " NAILS (625#/CLIP)

(7) CONTRACTOR SHALL USE A35 CLIPS or LTP4 PLATES TO CONNECT RIM BOARD TO DOUBLE TOP PLATE; AND SDS SCREWS or LTP4 PLATES TO CONNECT SOLE

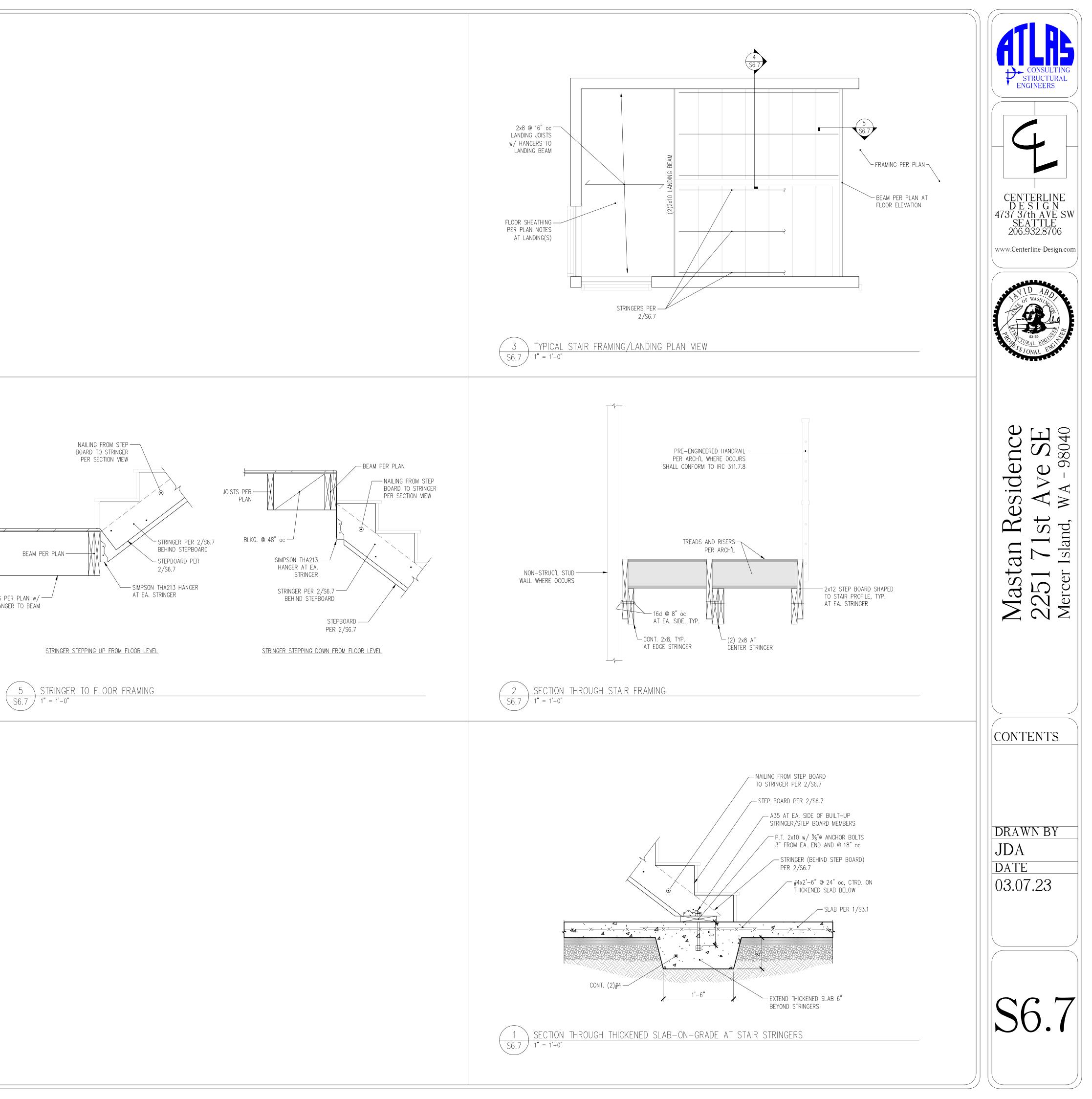
(8) PLATE WASHERS IN 2x4 STUD WALLS AND <u>ALL</u> SINGLE SIDED SHEAR WALLS SHALL BE 3"x3"x0.229". DOUBLE SIDED 2x6 SHEAR WALLS SHALL HAVE 4½"x3"0.229" PLATE WASHERS. THE EDGE OF PLATE WASHERS SHALL BE LOCATED WITHIN ½" OF THE EDGE OF BOTTOM PLATE ON THE SIDE WITH SHEATHING. (9) CAST ANCHORS A MINIMUM OF 7" INTO CONCRETE. ENSURE ANCHORS EXTEND ABOVE SILL PLATE AND WALL BOT. PLATE; IF ANCHORS ONLY EXTEND ABOVE SILL PLATE, PROVIDE SDS SCREWS FROM WALL BOT. PLATE TO SILL PLATE. PROVIDE ADDITIONAL ANCHOR BOLTS AT EACH SIDE OF PLATE BREAKS AND PENETRATIONS EXCEEDING THE "NO REINFORCING" HOLE SIZE PER 2/S6.1.



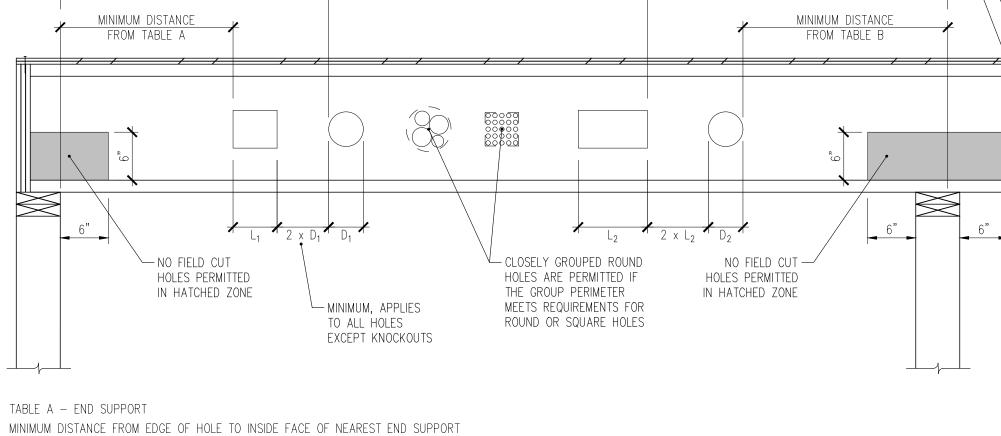
SHEARWALL SECTION AND SCHEDULE

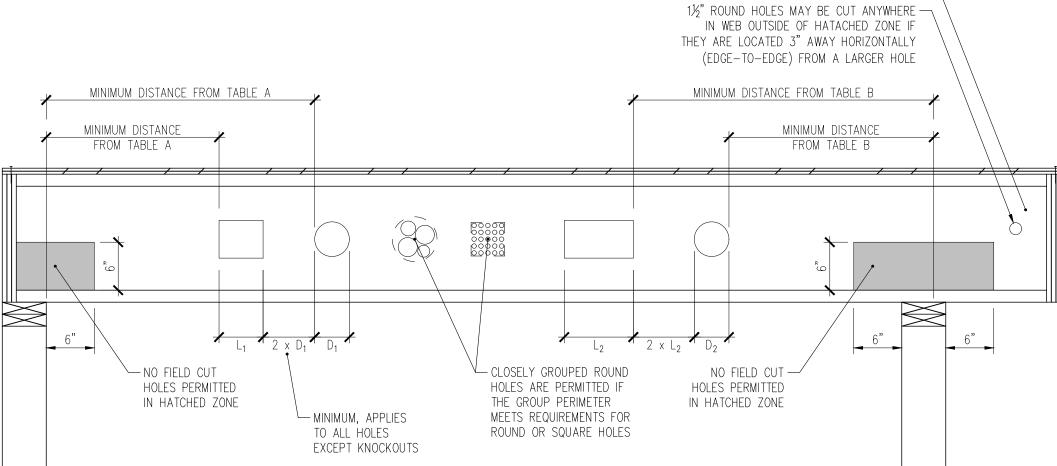


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DO NOT CUT HOLES LARGER — \smallsetminus than 1½" in cantilever

| JOIST | TJI SERIES | | | | ROUND HO |)le size (| ROUND HOLE SIZE (DIAMETER) | | | | | | | | | SQUARE OR RECTANGULAR HOLE SIZE (MAXIMUM DIMENSION) | | | | | | | | |
|-------|--------------|-------|-------|-------|----------|------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|---|-------|-------|-------|--|--|--|--|--|
| DEPTH | I JI SLIVILS | 2" | 3" | 4" | 5" | 6½" | 7" | 87⁄8" | 11" | 13" | 2" | 3" | 4" | 5" | 6½" | 7" | 87⁄8" | 11" | 13" | | | | | |
| | 110 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | | | | | |
| | 210 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | | | | | |
| | 230 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | | | | | |
| | 360 | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | | | | | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | | | | | | | | | |
| | 560 | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | | | | | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | | | | | | | | | |
| | 110 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | | | |
| 117%" | 210 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | | | |
| | 230 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | | | |
| | 360 | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | | | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | | | | | | | |
| | 560 | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | | | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | | | | | | | |
| | 110 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | | |
| | 210 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | | |
| 14" | 230 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | | |
| | 360 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-6" | 1'-6" | 1'-6" | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-6" | 1'-6" | 1'-6" | | | | | | |
| | 560 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-6" | 1'-6" | 1'-6" | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-6" | 1'-6" | 1'-6" | | | | | | |
| | 110 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | |
| | 210 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | |
| 16" | 230 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | |
| | 360 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-6" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-6" | | | | | |
| 16" | 560 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-6" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-6" | | | | | |

TABLE B - INTERMEDIATE or CANTILEVER SUPPORT

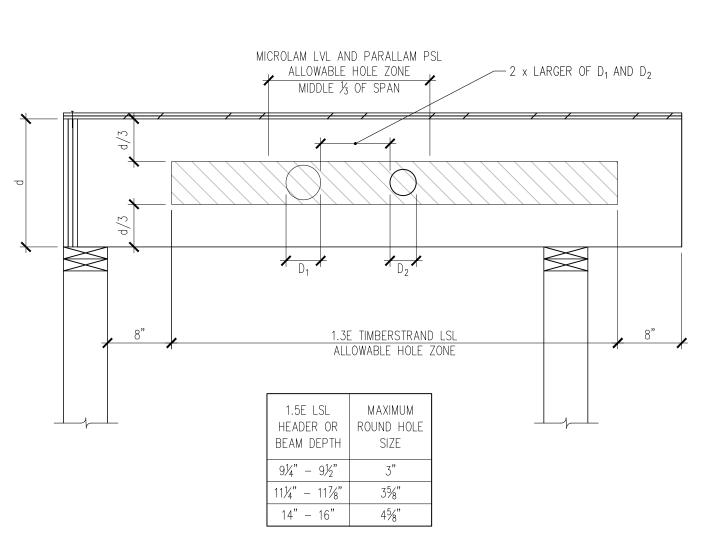
| JOIST | | | | | ROUND HO |)LE SIZE (| DIAMETER |) | SQUARE OR RECTANGULAR HOLE SIZE (MAXIMUM DIMENSION | | | | | | | | NSION) | | |
|-------|------------|-------|----------|-------|----------|------------|----------|-------|--|-------|-------|-------|-------|-------|-------|-------|--------|-------|------|
| DEPTH | TJI SERIES | 2" | 2" 3" 4" | | | 6½" | 7" | 87⁄8" | 11" | 13" | 2" | 3" | 4" | 5" | 6½" | 7" | 87⁄8" | 11" | 13" |
| | 110 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | |
| | 210 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | |
| 9½" | 230 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | | |
| | 360 | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | | | | | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | | | | |
| | 560 | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | | | | | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | | | | |
| | 110 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | |
| | 210 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | |
| 11%" | 230 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | |
| | 360 | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | | | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | | |
| | 560 | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | | | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | 1'-6" | | |
| | 110 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | |
| | 210 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | |
| 14" | 230 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | |
| | 360 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-6" | 1'-6" | 1'-6" | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-6" | 1'-6" | 1'-6" | |
| | 560 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-6" | 1'-6" | 1'-6" | | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-6" | 1'-6" | 1'-6" | |
| | 110 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-(|
| | 210 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'- |
| 16" | 230 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'- |
| | 360 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-6" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'- |
| | 560 | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-6" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'-0" | 1'- |

<u>NOTES</u>

- RECTANGULAR HOLES BASED ON MEASUREMENT OF LONGEST SIDE

– LEAVE st" of web (minimum) at top and bottom of hole. Do not cut joist flanges

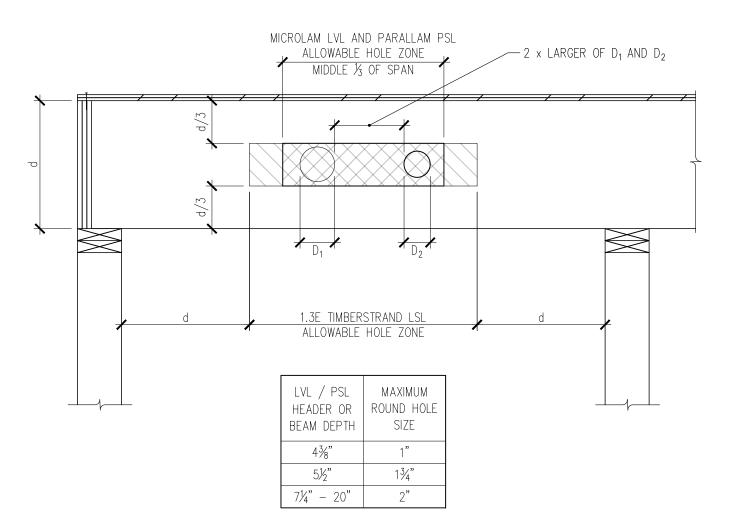
- TABLES ARE BASED ON UNIFORM LOAD TABLES IN CURRENT DESIGN LITERATURE - FOR SIMPLE SPAN (5' MINIMUM), UNIFORMLY LOADED JOISTS USED IN RESIDENTIAL APPLICATIONS, ONE MAXIMUM SIZE ROUND HOLE MAY BE LOCATED AT THE CENTER OF THE JOIST PAN PROVIDED THAT NO OTHER HOLES OCCUR IN THE JOIST



<u>NOTES</u>

– ALLOWABLE HOLE ZONE SUITABLE FOR HEADERS AND BEAMS WITH UNIFORM AND/OR CONCENTRATED LOADS ONLY ROUND HOLES PERMITTED

NO HOLES IN HEADERS OR BEAM IN PLANK ORIENTATION

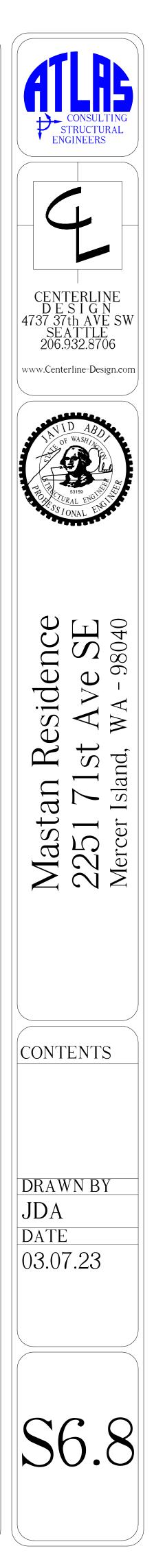


<u>NOTES</u>

- ALLOWABLE HOLE ZONE SUITABLE FOR HEADERS AND BEAMS WITH UNIFORM LOADS ONLY

ONLY ROUND HOLES PERMITTED

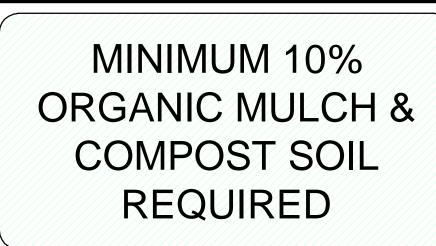
 NO HOLES PERMITTED IN CANTILEVERS NO HOLES IN HEADERS OR BEAM IN PLANK ORIENTATION



LEGAL DESCRIPTION

LOT 16, IN BLOCK 3 OF HIGHPARK ADDITION, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 38 OF PLATS, PAGE 16, RECORDS OF KING COUNTY AUDITOR; SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

ORGANIC SOIL REQUIREMENT



SOIL AMENDMENT REQUIRED

COMPOST AMENDED SOIL REQUIRED ON ALL LANDSCAPED AREAS AFTER CONSTRUCTION. SEE DETAIL ON C3.5.

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.

EROSION CONTROL LEGEND

| LIMITS OF DISTURBANCE | |
|---|------------------|
| FILTER FABRIC FENCE (SILT FENCE) | SFx |
| STABILIZED CONSTRUCTION ENTRANCE | CE CE |
| CATCH BASIN INLET PROTECTION | |
| INTERCEPTOR SWALE SEE COR DWG 504, TYPE A TEMPORARY SWALE | |
| TREE PROTECTION FENCING | (TP)00 |
| CHECK DAM | |
| STRAW WATTLES | SW USE AS NEEDED |

PROJECT ARBORIST (URBAN FORESTRY SERVICES) TREE PROTECTION RECOMMENDATIONS

These general tree recommendations are intended to preserve the western red cedar in its current condition. I recommend removing the flowering plum and replacing it with a new tree that will perform better in the future.

Implement the following tree protection measures prior to the start of demolition:

1. Erect 6-foot high chain-link tree protection fencing at a distance of 12 feet east and south of the trunk face. The tree protection fencing should be at the edge of the dripline on the other sides of the tree. The approximate location of tree protection fencing for the

western red cedar is shown on the attached Tree Protection Plan. Alternative types of fencing may be considered provided they are relatively rigid and stay in place for the duration of the project.

2. Keep all materials, grading, and contractors outside the fenced area.

3. Post at least one sign on the fence that states "Tree Protection Area."

4. Place a 3-inch layer of coarse wood chip mulch in the area protected by fencing. This will help the soil retain moisture and increase the availability of nutrients to compensate for any root loss. Keep the wood chips 10 to 12 inches from the trunk of the tree.

5. Prune the branches overhanging the project site up to a maximum height of 18 feet above grade. The height where the branches are cut back to the trunk may be somewhat higher due to the downward curve of the branch. Limit pruning to less than 15 percent of the entire crown. All pruning shall be done by an ISA Certified Arborist® following the ANSI-A300 standards for pruning.

During demolition and construction, avoid machinery contact with the branches and trunk of the tree. Keep out of the tree protection area.

When excavating within 16 feet of the western red cedar:

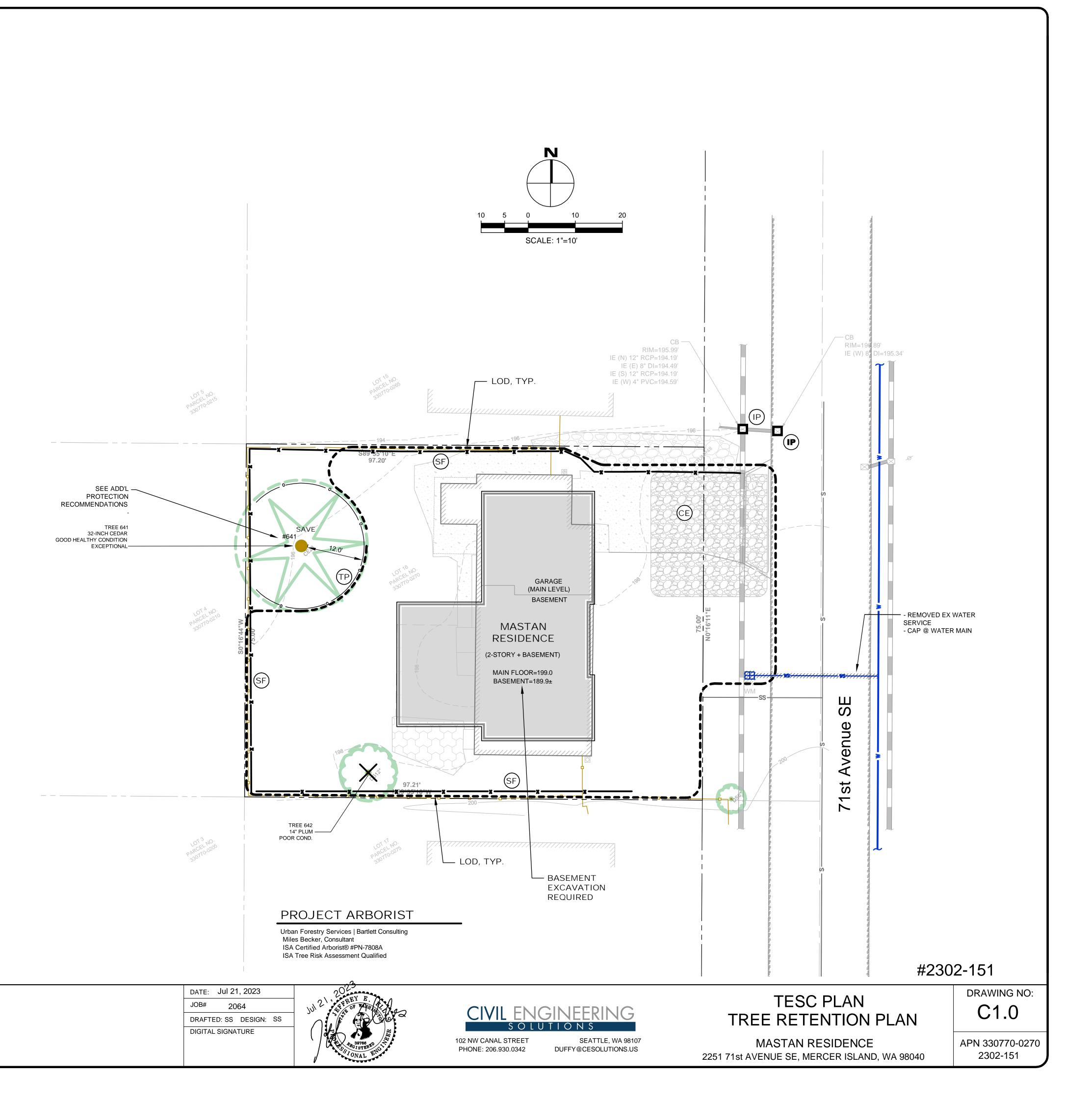
--Have a certified arborist on-site to monitor the excavation.

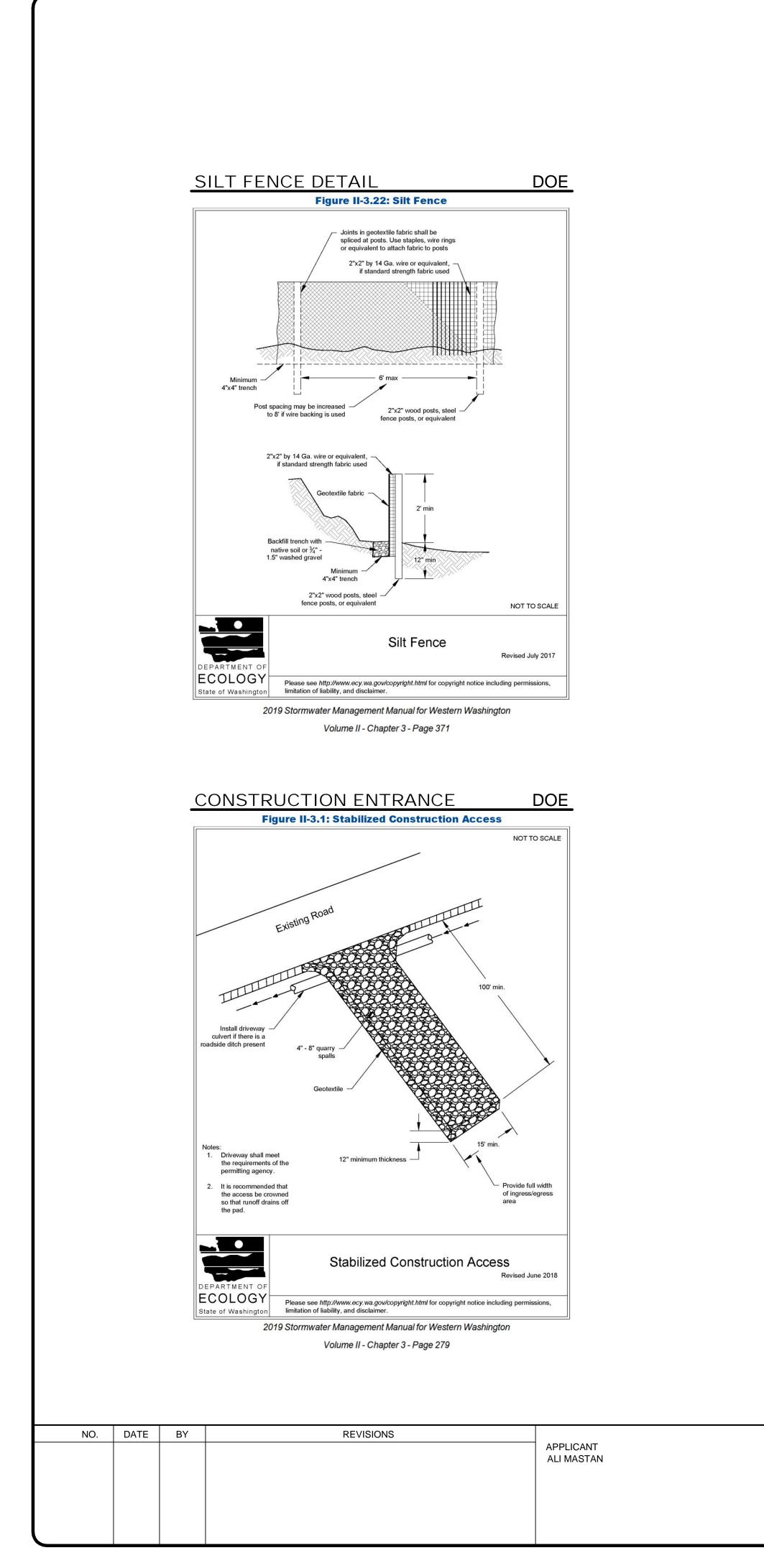
--Document the size and quantity of roots encountered.

--If more than three roots over 4 inches in diameter need to be cut for the foundation of the new building,

re-evaluate the impacts on the tree. --Cleanly cut roots over 1 inch in diameter back to the edge of the grading limits.

| NO. | DATE | BY | REVISIONS | |
|-----|------|----|-----------|------------|
| | | | | APPLICANT |
| | | | | ALI MASTAN |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |





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 TH APPLICANT'S DISCRETION, NOTES THAT IN NO WAY APPLY TO THE PROJECT MAY 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 CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILI 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 APPLICAN 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 CLEAR LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DU OF CONSTRUCTION.

4. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINN CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITI MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, M REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OL 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 CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND AD. PROPERTIES IS MINIMIZED.

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

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

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

10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINI MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING TH 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 LIN SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FL 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 FACILIT FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEE ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.

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

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

DATE: Jul 21, 2023

JOB# 2064 DRAFTED: SS DESIGN: DE DIGITAL SIGNATURE





102 NW CANAL STREET PHONE: 206.930.0342

| E ' BE S NOT SIZE TIES, | 1. 2. 3. 4. 5. | ANY CHANGES TO THE APPROVED PLANS REQUIRES CITY APPROVAL THROU A REVISION. APPLICANT IS RESPONSIBLE FOR ANY DAMAGES TO UNDERGROUND UTILITIE CAUSED FROM THIS CONSTRUCTION. CATCH BASIN FILTERS SHOULD BE PROVIDED FOR ALL STORM DRAIN CATCH BASINS/INLETS DOWNSLOPE AND WITHIN 500 FEET OF THE CONSTRUCTION AREA. CATCH BASIN FILTERS SHOULD BE DESIGNED BY THE MANUFACTUREI FOR USE AT CONSTRUCTION SITES AND APPROVED BY THE CITY INSPECTOR | ES |
|-------------------------------------|----------------------------|---|-----------------|
| NOT ZE ES, | 3. 4. | CAUSED FROM THIS CONSTRUCTION. CATCH BASIN FILTERS SHOULD BE PROVIDED FOR ALL STORM DRAIN CATCH BASINS/INLETS DOWNSLOPE AND WITHIN 500 FEET OF THE CONSTRUCTION AREA. CATCH BASIN FILTERS SHOULD BE DESIGNED BY THE MANUFACTUREI FOR USE AT CONSTRUCTION SITES AND APPROVED BY THE CITY INSPECTOR | |
| ΖΕ ES, | 4. | BASINS/INLETS DOWNSLOPE AND WITHIN 500 FEET OF THE CONSTRUCTION AREA. CATCH BASIN FILTERS SHOULD BE DESIGNED BY THE MANUFACTURE FOR USE AT CONSTRUCTION SITES AND APPROVED BY THE CITY INSPECTOR | l |
| /ESC | | CATCH BASIN FILTERS SHOULD BE INSPECTED FREQUENTLY, ESPECIALLY AF STORM EVENTS. IF THE FILTER BECOMES CLOGGED, IT SHOULD BE CLEANED REPLACED. | R R. FTER |
| | 5 | CONTRACTORS SHALL VERIFY LOCATIONS AND DEPTHS OF UTILITES. | |
| | 5. | AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, CALL "ONE CALL" AT 1.800.424.5555 | |
| G | 6. | DO NOT BACKFILL WITH NATIVE MATERIAL ON PUBLIC RIGHT-OF-WAY. ALL MATERIAL MUST BE IMPORTED | |
| ATION NG OF | 7. | EROSION CONTROL: ALL "LAND DISTURBING ACTIVITY" IS SUBJECT TO PROVISIONS OF MERCER ISLAND ORDINANCE 95C-118 "STORM WATER MANAGEMENT." SPECIFIC ITEMS TO BE FOLLOWED AT YOUR SITE: | |
| NAL Y BE TO DR IN | 8. | PROTECT ADJACENT PROPERTIES FROM ANY INCREASED RUNOFF OR SEDIMENTATION DUE TO THE CONSTRUCTION PROJECT THROUGH THE USE APPROPRIATE "BEST MANAGEMENT PRACTICES" (BMP) EXAMPLES INCLUDE, ARE NOT LIMITED TO, SEDIMENT TRAPS, SEDIMENT PONDS, FILTER FABRIC FENCES, VEGETATIVE BUFFER STRIPS OR BIOENGINEERED SWALES. | |
| CENT | 9. | CONSTRUCTION ACCESS TO THE SITE SHOULD BE LIMITED TO ONE ROUTE. STABILIZE ENTRANCE WITH QUARRY SPALLS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING THE STORM DRAINS. | |
| FOR C ND R | 10. | PREVENT SEDIMENT, CONSTRUCTION DEBRIS, PAINTS, SOLVENTS, ETC., OR OTHER TYPES OF POLLUTION FROM ENTERING PUBLIC STORM DRAINS. KEEF POLLUTION ON YOUR SITE. | P ALL |
| ES, | 11. | ALL EXPOSED SOILS SHALL REMAIN DENUDED FOR NO LONGER THAN SEVEN DAYS AND SHALL BE STABILIZED WITH MULCH, HAY, OR THE APPROPRIATE GROUND COVER. ALL EXPOSED SOILS SHALL BE COVERED IMMEDIATELY DU ANY RAIN EVENT. | |
| ILL THE | 12. | INSTALLATION OF CONCRETE DRIVEWAYS, TREES, SHRUBS, IRRIGATION, BOULDERS, BERMS, WALLS, GATES, AND OTHER IMPROVEMENTS ARE NOT ALLOWED IN THE PUBLIC RIGHT-OF-WAY WITHOUT PRIOR APPROVAL, AND AN ENCROACHMENT AGREEMENT AND RIGHT OF WAY PERMIT FROM THE SENIO DEVELOPMENT ENGINEER. | |
| TION D A WET | 13. | OWNER SHALL CONTROL DISCHARGE OF SURFACE DRAINAGE RUNOFF FROM EXISTING AND NEW IMPERVIOUS AREAS IN A RESPONSIBLE MANNER. CONSTRUCTION OF NEW GUTTERS AND DOWNSPOUTS, DRY WELLS, LEVEL SPREADERS OR DOWNSTREAM CONVEYANCE PIPE MAY BE NECESSARY TO MINIMIZE DRAINAGE IMPACT TO YOUR NEIGHBORS. CONSTRUCTION OF MINIMUM DRAINAGE IMPROVEMENTS SHOWN OR CALLED OUT ON THIS PLAN DOES NOT IMPLY RELIEF FROM CIVIL LIABILITY FOR YOUR DOWNSTREAM DRAINAGE. | |
| S JSH | 14. | POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STO SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMI REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PU MAINS. | ТА |
| IS TO | 15. | REMEMBER: EROSION CONTROL IS YOUR FIRST INSPECTION. | |
| IUST | 16. | ROOF DRAINS MUST BE CONNECTED TO THE STORM DRAIN SYSTEM AND INSPECTED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY BACKFILLIN PIPE. | IG OF |
| HE S | 17. | SILENT FENCE: CLEAN AND PROVIDE REGULAR MAINTENANCE OF THE SILT FENCE. THE FENCE IS TO REMAIN VERTICAL AND IS TO FUNCTION PROPERLY THROUGHOUT THE TERM OF THE PROJECT. | <i>,</i> |
| FOR THE | 18. | WORK IN PUBLIC RIGHT OF WAY REQUIRES A RIGHT-OF-WAY USE PERMIT. | |
| | 19. | REFER TO WATER SERVICE PERMIT FOR ACTUAL LOCATION OF NEW WATER METER AND SERVICE LINE DETERMINED BY MERCER ISLAND WATER DEPARTMENT. | |
| | 16. | THE TV INSPECTION OF THE EXISTING SIDE SEWER TO THE CITY SEWER MAI REQUIRED. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE CITY OF MERCER ISLAND INSPECTOR, T REPLACEMENT OF THE EXISTING SIDE SEWER IS REQUIRED. ALTERNATELY, A PRESSURE TEST OF THE SIDE SEWER, FROM SEWER MAIN TO POINT OF CONNECTION, MAY BE SUBSTITUTED FOR THE VIDEO INSPECTION. | THE |
| | 20. | NEWLY INSTALLED SIDE SEWER REQUIRES A 4 P.S.I. AIR TEST OR PROVIDE 10' OF HYDROSTATIC HEAD TEST. | |
| | 21. | POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STO SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMI REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PU MAINS. | ТА |
| | 22. | THE LIMITS AND EXTENDS OF THE PAVEMENT IN THE PUBLIC RIGHT OF WAY SHALL BE DETERMINED BY THE CITY ENGINEER PRIOR TO FINALIZE THE PROJECT. | |
| | | #230 | 2-151 |

TESC DETAILS MASTAN RESIDENCE 2251 71st AVENUE SE, MERCER ISLAND, WA 98040

APN 330770-0270 2302-151

| SANITARY SEWER IMPROVEMENTS | STORM BMP's |
|--|--|
| 1 - 2 -6" SDR 35 PVC SANITARY SEWER(SS) @ MIN 1.0 %. | COMPOST AMENDED SOIL TO ALL DISTURBED AREAS (SEE DETAIL SHEET C3.5). TILL 2-3" OF COMPOST INTO UPPER 8" OF SOIL. LOOS COMPACTED SUBSOIL, IF NEEDED BY RIPPING TO 12" DEPTH. MULC LANDSCAPE BEDS AFTER PLANTING. |
| 3) - - | <u>51</u> - |
| -6" SEWER CLEANOUT PER MERCER ISLAND DETAIL S-19. -LOCATE AND VIDEO CONDITION OF EXISTING SANITARY SIDE SEWER. REPLACE LINE IF FOUND DEFECTIVE AS DETERMINED BY | <u>52</u> - |
| CITY INSPECTOR. | <u>53</u> - |
| WATER IMPROVEMENTS | (54) - |
| IRE SPRINKLERS REQUIRED -NEW SF RESIDENTIAL WATER SERVICE & METER PIT. 1.5" WATER METER, 2" WATER SERVICE LINE, 2" WATER SUPPLY LINE. INSTALL PER MERCER ISLAND DETAIL W-14. | 55 - |
| -2" 250 PSI PRIVATE HDPE WATER (ASTM D2239) FROM METER TO HOUSE. RECOMMENDED DEPTH=36". COORDINATE HOUSE ENTRY WITH BUILDER/OWNER. | (56) - (57) - |
|) - | 0 |
|) - | (58) - |
| STORM DRAIN PIPE KEY NOTES | |
| -4" STORM DRAIN (3034 PVC) @ MIN 2 % GRADE -4" FOUNDATION DRAIN (3034 PVC) @ MIN 1 % GRADE | |
| -4" FOUNDATION DRAIN (3034 PVC) @ MIN 1 % GRADE -6" STORM DRAIN (3034 PVC) @ MIN 2 % GRADE | MINIMUM 10% ORGANIC - |
|) - | COMPOST & MULCH SOIL |
| ♪ ♪ | REQUIRED |
| | |
| -STORM DRAIN FORCE MAIN @ MIN. 30" DEPTH. SUITABLE PIPE | |
| -STORM DRAIN FORCE MAIN @ MIN. 30" DEPTH. SUITABLE PIPE OPTIONS INCLUDE SDR-21 PVC OR HDPE SDR-11. | |
| -STORM DRAIN FORCE MAIN @ MIN. 30" DEPTH. SUITABLE PIPE OPTIONS INCLUDE SDR-21 PVC OR HDPE SDR-11. | |
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| OPTIONS INCLUDE SDR-21 PVC OR HDPE SDR-11. - - - - | |
| OPTIONS INCLUDE SDR-21 PVC OR HDPE SDR-11. - - - STORM STRUCTURE KEY NOTES | SURVEYOR TOPOGRAPHIC SURVEY BY: |
| OPTIONS INCLUDE SDR-21 PVC OR HDPE SDR-11. - - - TORM STRUCTURE KEY NOTES | TOPOGRAPHIC SURVEY BY: SITE SURVEYING 21923 NE 11th STREET |
| OPTIONS INCLUDE SDR-21 PVC OR HDPE SDR-11. | TOPOGRAPHIC SURVEY BY: SITE SURVEYING 21923 NE 11th STREET SAMMAMISH, WA 98074 PHONE 425-298-4412 |
| OPTIONS INCLUDE SDR-21 PVC OR HDPE SDR-11. STORM STRUCTURE KEY NOTES | TOPOGRAPHIC SURVEY BY: SITE SURVEYING 21923 NE 11th STREET SAMMAMISH, WA 98074 |
| OPTIONS INCLUDE SDR-21 PVC OR HDPE SDR-11. - - STORM STRUCTURE KEY NOTES | TOPOGRAPHIC SURVEY BY: SITE SURVEYING 21923 NE 11th STREET SAMMAMISH, WA 98074 PHONE 425-298-4412 |
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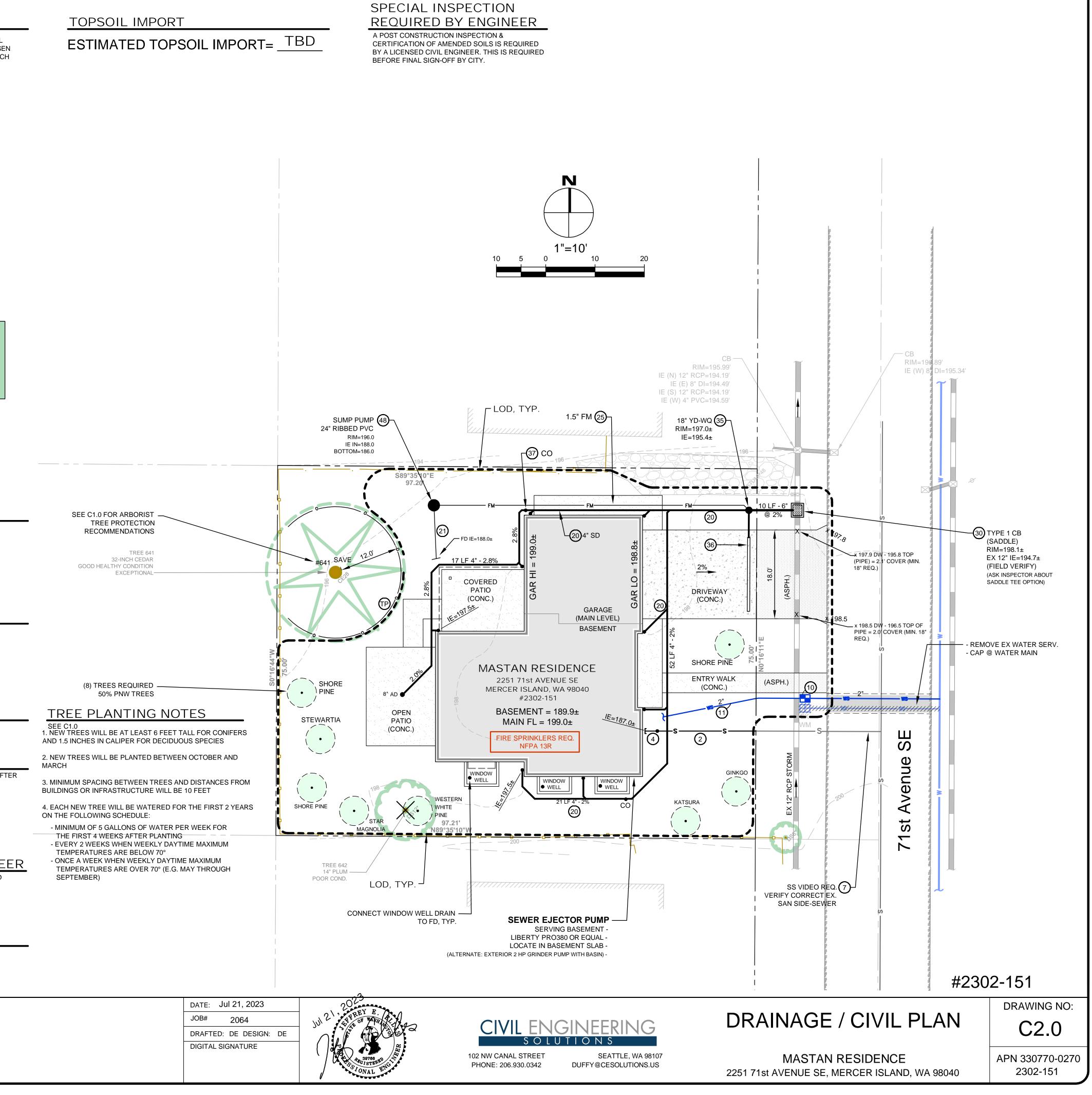
48 -FOOTING DRAIN SUMP PUMP: USE 1/3 HP HYDROMATIC SUMP PUMP OR EQUAL. 120V, 1/3 HP, SINGLE PHASE, 8.0 AMP 1-1/2" DISCHARGE. PLACE IN 24" GREEN ULTRA-RIB PVC PIPE OR EQUAL. SOIL INSPECTION REQ. BY ENGINEER A POST CONSTRUCTION INSPECTION & CERTIFICATION OF AMENDED

SOILS IS REQUIRED BY A LICENSED CIVIL ENGINEER. THIS IS REQUIRED BEFORE FINAL SIGN-OFF BY CITY.

FIRE DEFICIENCIES FIRE FLOW=778 GPM (< 825 GPM)

ACCESS ROAD LESS THAN 26' (REF: PERMIT INTAKE COMMENTS BY JEROMY HICKS)

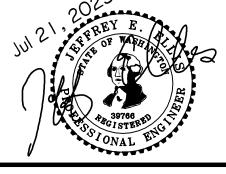
| NO. | DATE | BY | REVISIONS | |
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| | | | | APPLICANT ALI MASTAN |

DATE: Jul 21, 2023 JOB# 2064

DRAFTED: SS DESIGN: SS DIGITAL SIGNATURE





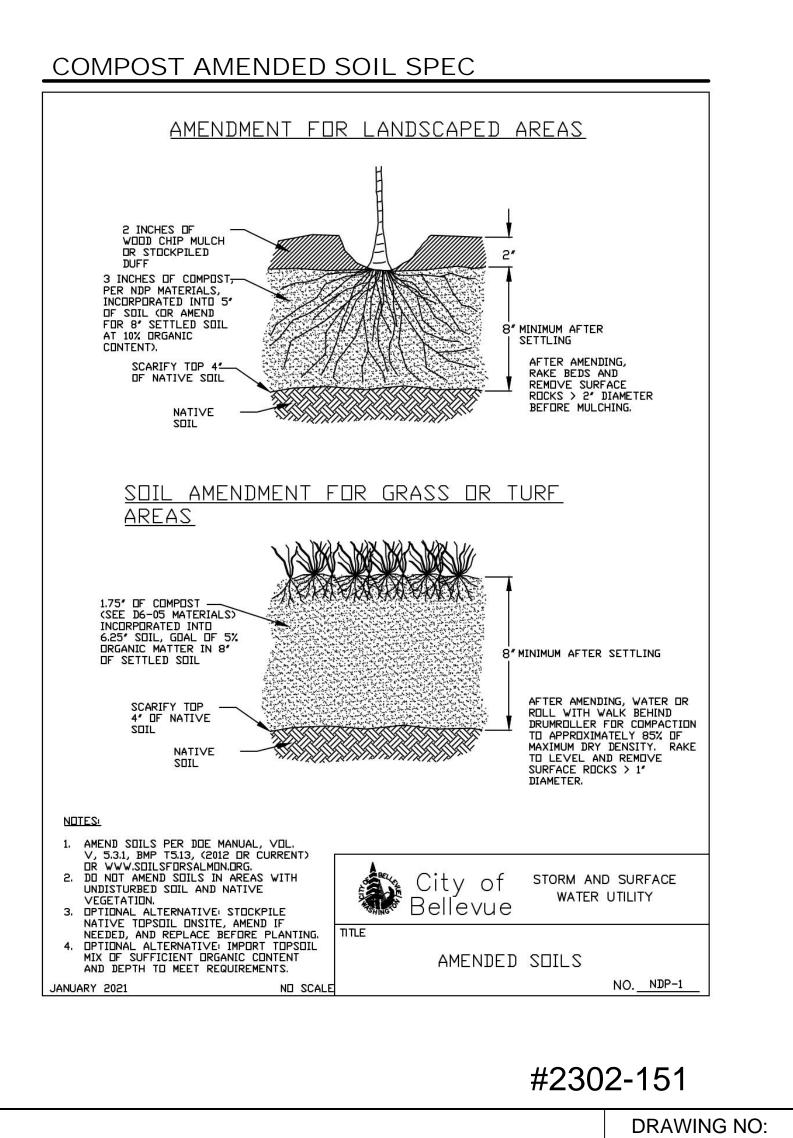
AMENDED SOIL REQUIREMENT

MINIMUM 10% ORGANIC -COMPOST SOIL REQUIRED

SOIL AMENDMENT REQUIRED

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

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

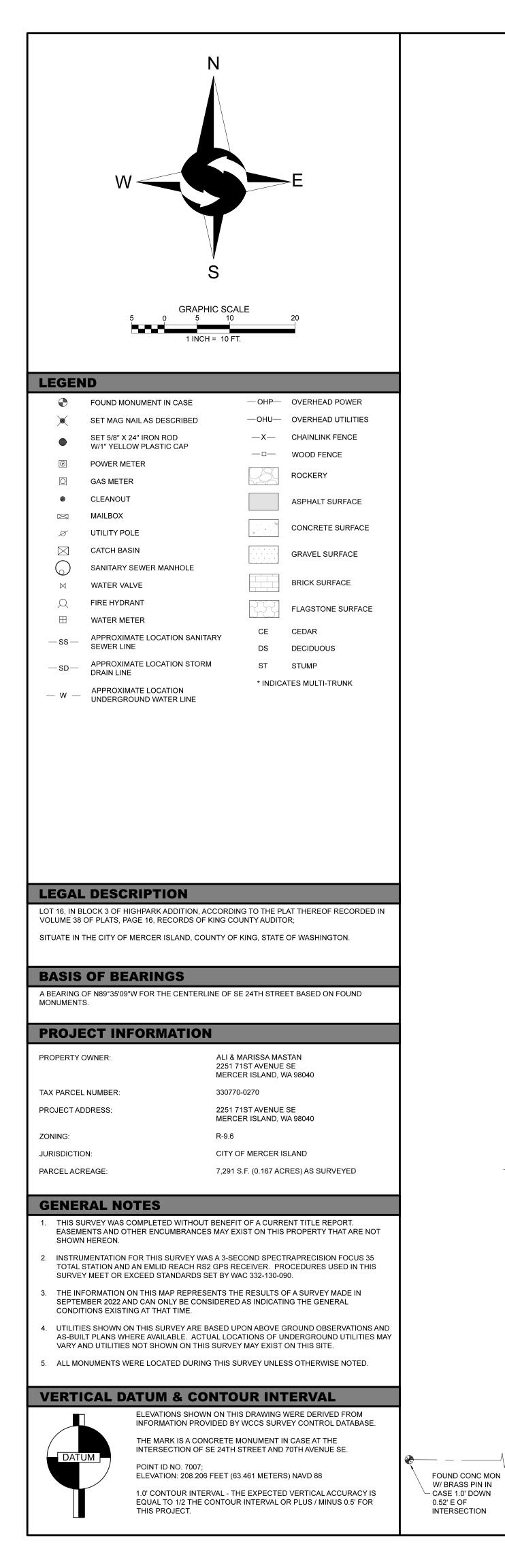


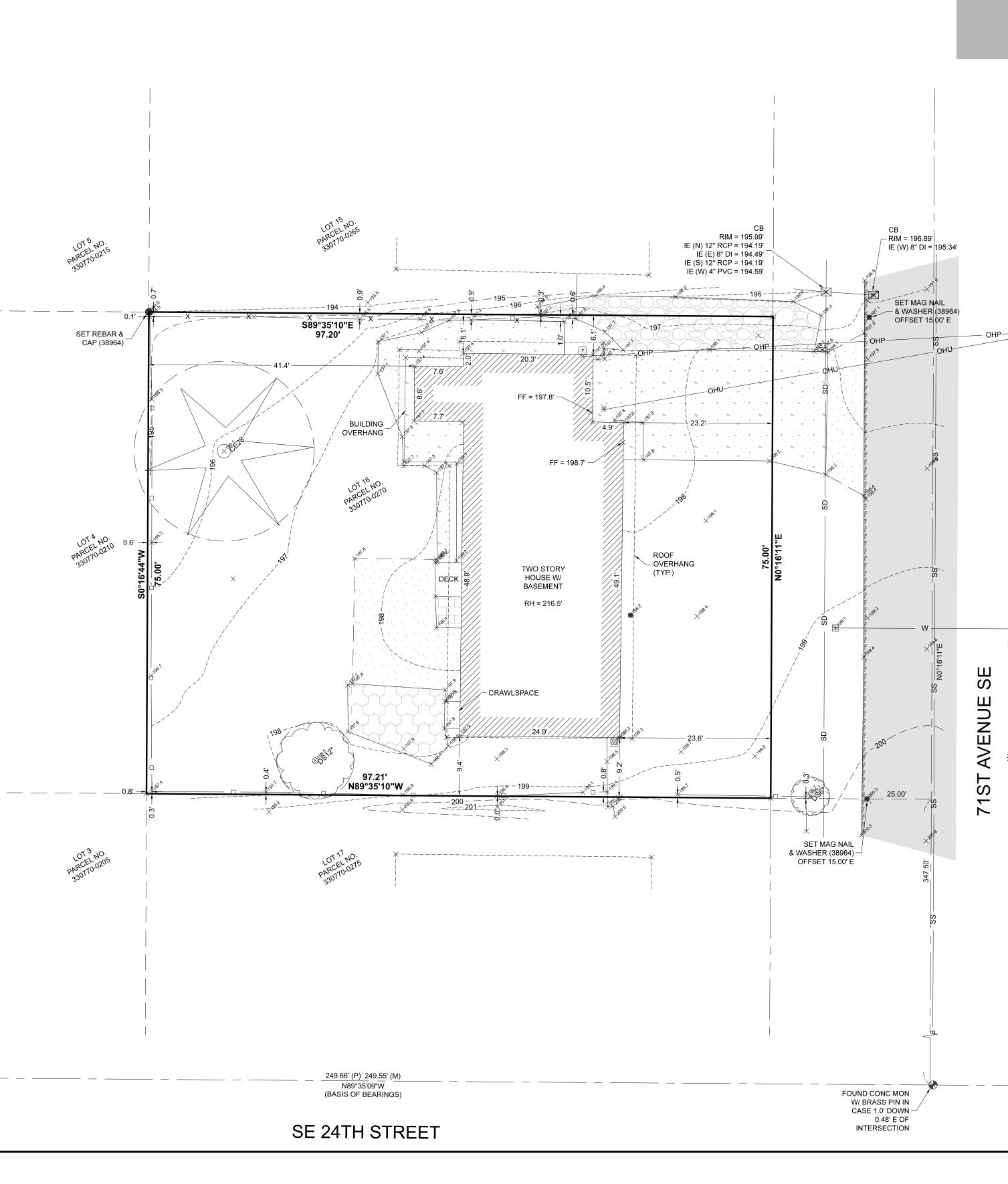


STORM, BMP DETAILS MASTAN RESIDENCE 2251 71st AVENUE SE, MERCER ISLAND, WA 98040

APN 330770-0270 2302-151

C3.5





Hadley Memoria urrow Memorial