

# GENERAL NOTES :

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT/DESIGNER AND MAY BE REPRODUCED ONLY WITH THE WRITTEN PERMISSION OF THE ARCHITECT/DESIGNER. AUTHORIZED REPRODUCTIONS MUST BEAR THE NAME OF THE ARCHITECT/DESIGNER. COPYRIGHT 2015 BY DME CONSTRUCTION. THESE DRAWINGS ARE FULLY PROTECTED BY FEDERAL AND STATE COPYRIGHT LAWS. ANY INFRINGEMENT WILL BE VIGOROUSLY PROSECUTED.

THIS PROJECT SHALL COMPLY WITH THE FOLLOWING CODES:

- \* 2018 INTERNATIONAL RESIDENTIAL CODE
- \* 2018 WASHINGTON STATE ENERGY CODE
- \* 2018 INTERNATIONAL MECHANICAL CODE
- \* 2018 INTERNATIONAL PLUMBING CODE
- \* 2018 INTERNATIONAL FIRE CODE

## CONTRACTORS RESPONSIBILITY :

CONTRACTOR TO VERIFY ALL DIMENSIONS AND STRUCTURAL MEMBER SIZES PRIOR TO CONSTRUCTION.

CONTRACTOR TO INFORM ARCHITECT/DESIGNER OF ANY DISCREPANCIES IN THE DRAWINGS OR FROM THE CODES.

CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT/DESIGNER AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON THE DRAWINGS ONLY WILL NOT SATISFY THE REQUIREMENT.

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

ALL STRUCTURAL SYSTEMS SUCH AS WOOD TRUSSES WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERRECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE INSTRUCTIONS PREPARED BY THE SUPPLIER.

THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ARCHITECT/DESIGNER IF UNUSUAL, UNFORESEEABLE, OR UNEXPECTED SUBSURFACE CONDITIONS ARE ENCOUNTERED.

## DRAWINGS :

GENERAL CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH WORK. DO NOT SCALE DRAWINGS.

NOTIFY ARCHITECT CONCERNING QUESTIONS, CHANGES, CONFLICTS OR OMISSIONS. IN THE EVENT OF CONFLICTS OR CHANGES BETWEEN DETAILS OR BETWEEN THE PLANS AND SPECIFICATIONS, NOTIFY ARCHITECT IMMEDIATELY. OBTAIN CLARIFICATION BEFORE PROCEEDING.

FACE OF FRAMING IS TO BE FLUSH WITH FACE OF CONCRETE, UNLESS OTHERWISE INDICATED.

THE TYPICAL EXTERIOR DIMENSIONS ARE TO FACE OF CONCRETE AND/OR FACE OF FRAMING. INTERIOR DIMENSIONS ARE TO FACE OF FRAMING, UNLESS OTHERWISE INDICATED.

DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE SIMILAR IN CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. REFER TO ARCHITECTURAL DRAWINGS FOR OPENINGS, ARCHITECTURAL REQUIREMENTS AND DIMENSIONS.

INFORMATION CONTAINED WITHIN THESE DRAWINGS WITH REGARD TO EXISTING CONDITIONS IS PROVIDED FOR THE CONVENIENCE OF THE GENERAL CONTRACTOR. ALL ATTEMPTS HAVE BEEN MADE TO ACCURATELY REPRESENT THE EXISTING BUILDING AND SURROUNDINGS VIA OWNER SUPPLIED AS-BUILTS AND FIELD VERIFICATION. THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK TO AVOID UNREASONABLE DELAYS TO THE SCHEDULE.

ALL DRAWINGS OF EXISTING CONDITIONS ARE FOR REFERENCE ONLY, ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED.

## SITE :

HYDRANT 96A3-28 IS THE CLOSEST HYDRANT ON THE SAME SIDE OF THE STREET AS THE RESIDENCE AND HAS A FLOW RATE OF 1.759 GPM @ 96 PSI. HYDRANT 94A2-26 LOCATED 275 FT. FROM RESIDENCE HAS A FLOW RATE OF 3.000 GPM @ 94 PSI. 1.500 GPM IS THE REQUIRED MIN. THE FLOW RATES EXCEED MIN. BY OVER 117% AND 330%.

SEE ATTACHED TREE REPORT FROM SUPERIOR, NW ENTERPRISES DATED MAY 16, 2006.

## SOILS :

CONTRACTOR TO VERIFY ALL DIMENSIONS AND STRUCTURAL MEMBER SIZES PRIOR TO CONSTRUCTION.

CONTRACTOR TO INFORM ARCHITECT/DESIGNER OF ANY DISCREPANCIES IN THE DRAWINGS OR FROM THE CODES.

CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT/DESIGNER AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON THE DRAWINGS ONLY WILL NOT SATISFY THE REQUIREMENT.

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

ALL STRUCTURAL SYSTEMS SUCH AS WOOD TRUSSES WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERRECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH THE INSTRUCTIONS PREPARED BY THE SUPPLIER.

THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ARCHITECT/DESIGNER IF UNUSUAL, UNFORESEEABLE, OR UNEXPECTED SUBSURFACE CONDITIONS ARE ENCOUNTERED.

## MATERIALS / ASSEMBLIES :

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL WORK AND MATERIALS IN ACCORDANCE WITH ALL APPLICABLE COUNTY, LOCAL BUILDING AND FIRE CODES AS REQUIRED.

ALL WOOD AND SONTIUBE FORMS USED FOR CONCRETE IN THE GROUND OR BETWEEN FOUNDATION SILLS & THE GROUND SHALL BE REMOVED.

ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED WOOD OR ANY SPECIES OR FOUNDATION GRADE CEDAR OR REDWOOD, ALL MARKED BY AN APPROVED TESTING AGENCY.

PROVIDE 90# FELT BETWEEN POSTS & CONCRETE.

PROVIDE DRAFT STOPS, FIRE BLOCKING, AND FIRESTOPS AS REQUIRED BY CODE.

FLASHING AND COUNTER FLASHING TO BE MIN. 24 GAUGE OF CORROSION-RESISTANT METAL, AND SHALL BE INSTALLED IN COMPLIANCE WITH LOCAL BUILDING CODES AND MANUFACTURES RECOMMENDATIONS.

GENERAL CONTRACTOR SHALL PROVIDE BLOCKING FOR ALL WALL-MOUNTED HARDWARE, TOILET ACCESSORIES, TOWEL BARS, LIGHT FIXTURES, BUILT-INS, ETC., AS REQUIRED FOR SECURE AND PROPER INSTALLATION.

ALL INTERIOR WALLS & CEILINGS SHALL HAVE 5/8" TYPE 'C' GYP. BD. (FIRE CODE C CODE).

PROVIDE AN APPLICATION OF JOHN MANVILLE IGNITION BARRIER COATING AS AN IGNITION BARRIER OVER OPEN AND CLOSED-CELL SPRAY FOAM INSULATION IN MAIN FLOOR, CEILING AND FLOOR OVER OCCUPIED SPACE.

PROVIDE A UL RATED "CLASS A" FIRE RESISTANT ROOFING MEMBRANE WHERE APPLICABLE.

ALL EXTERIOR DECKS TO BE CONSTRUCTED WITH PRESSURE TREATED WOOD.

VAPOR BARRIER BELOW SLABS ON GRADE TO BE 6 MIL. POLYETHYLENE, PER SPECIFICATIONS.

ALL COUNTERTOPS TO BE 3/4" A.F.F. UNLESS OTHERWISE NOTED.

PROVIDE 1 HR. FIRE RATED ASSEMBLY BETWEEN GARAGE AND LIVING SPACE.

MINIMUM STAIRWAY REQUIREMENTS ARE AS FOLLOWS: 36" MIN. WIDTH, 6'-8" MIN. HEADROOM, 8" MAX. RISE AND 9" MIN. RUN FOR (4) OR MORE RISERS. PROVIDE A HANDRAIL 34"-38" A.F.F. HAND GRIP PORTION TO BE CONTINUOUS AND 1 1/4"-2" IN CROSS SECTION WITH BOTH ENDS RETURNED. THERE SHALL BE A SPACE OF NOT LESS THAN 1 1/2" BETWEEN THE WALL AND THE HANDRAIL. GUARD RAILS SHALL BE IN ACCORDANCE WITH 2018 IRC, SECTION R312.

BATHTUB, SHOWER FLOORS AND WALLS ABOVE BATHTUBS WITH INSTALLED SHOWER HEADS AND SHOWER ENCLOSURES SHALL BE FINISHED WITH A NONABSORBENT SURFACE A MINIMUM OF 6' ABOVE THE FLOOR. PER 2018 IRC, R310.2.

## WALLS :

INSULATED WITH R-21 BATT (FOR 2nd WALLS) AND R-13 BATT (FOR 2nd WALLS), UNLESS NOTED OTHERWISE.

## FLOORS :

PROVIDE R-30 BATT INSULATION OVER UNHEATED SPACE, UNLESS NOTED OTHERWISE.

## ROOFS AND CEILINGS :

INSULATED WITH R-49 BATT, UNLESS NOTED OTHERWISE. PROVIDE INSULATION IN CEILING WHERE POSSIBLE AND IN RAFTERS IF VAULTED CEILING USE R-38 BATT. IF CONDITION EXISTS, MAINTAIN A MIN. OF 1" CLEAR BETWEEN TOP OF INSULATION AND BOTTOM OF SHEATHING FOR VENTING. VENTING MUST OCCUR IN EACH JOIST SPACE. WHERE CONTINUOUS VENTING WITHIN A JOIST SPACE IS INTERRUPTED BY A HEADER (I.E. SKYLIGHT OR AT HIP END), PROVIDE (2) 1/2" VENTING HOLES AT THE TOP OF THE RAFTER AT THE HEADER TO ALLOW FOR CONTINUAL THROUGH VENTING INTO THE ADJACENT JOIST SPACE.

## SLAB ON GRADE :

PROVE EXTRUDED RIGID CLOSE CELL INSULATION R-10 INSULATION TO PROVIDE THERMAL BREAK BETWEEN SLAB AND FOOTING AND RUN FROM TOP OF SLAB TO THE BOTTOM OF FOOTING. INSULATION MAY BE INTERRUPTED FOR 6" EVERY 2'-0" TO ALLOW FOR DOWELING TO TIE SLAB AND FOOTING TOGETHER.

## VAPOR BARRIER :

AN APPROVED 10 MIL VAPOR BARRIER SHALL BE INSTALLED AT EXTERIOR WALLS AND AT ROOF DECKS, BELOW ENCLOSED JOIST SPACES WHERE CEILING FINISHES ARE DIRECTLY INSTALLED TO JOIST, AND ANY OTHER WALL OR CEILING SURFACES WHICH RECEIVE INSULATION. THIS VAPOR BARRIER MAY BE A COMPONENT OF THE INSULATION MATERIAL. APPLICATION AND INSTALLATIONS OF THE INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH STAT OF WASHINGTON THERMAL INSULATION STANDARDS (HB #)

## ENERGY :

ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE IRC 2018 AND THE WASHINGTON STATE ENERGY CODE, LATEST EDITION. VERIFY ALL CONDITIONS BEFORE PROCEEDING WITH WORK.

ALL WOOD AND SONTIUBE FORMS USED FOR CONCRETE IN THE GROUND OR BETWEEN FOUNDATION SILLS & THE GROUND SHALL BE REMOVED.

ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED WOOD OR ANY SPECIES OR FOUNDATION GRADE CEDAR OR REDWOOD, ALL MARKED BY AN APPROVED TESTING AGENCY.

PROVIDE 90# FELT BETWEEN POSTS & CONCRETE.

PROVIDE DRAFT STOPS, FIRE BLOCKING, AND FIRESTOPS AS REQUIRED BY CODE.

FLASHING AND COUNTER FLASHING TO BE MIN. 24 GAUGE OF CORROSION-RESISTANT METAL, AND SHALL BE INSTALLED IN COMPLIANCE WITH LOCAL BUILDING CODES AND MANUFACTURES RECOMMENDATIONS.

GENERAL CONTRACTOR SHALL PROVIDE BLOCKING FOR ALL WALL-MOUNTED HARDWARE, TOILET ACCESSORIES, TOWEL BARS, LIGHT FIXTURES, BUILT-INS, ETC., AS REQUIRED FOR SECURE AND PROPER INSTALLATION.

ALL INTERIOR WALLS & CEILINGS SHALL HAVE 1/2" GYP. BD.

APPLICATION INSTALLATIONS OF INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH STATE OF WASHINGTON THERMAL INSULATION STANDARDS (HB 98).

PROVIDE A UL RATED "CLASS A" FIRE RESISTANT ROOFING MEMBRANE WHERE APPLICABLE.

FLOOR INSULATION SHALL BE INSTALLED TO MAINTAIN PERMANENT CONTACT WITH THE UNDERSIDE OF THE SUBFLOOR DECKING. INSULATION SUPPORTS SHALL BE INSTALLED TO SPACING OF 16" ON THE 24" O.C. FOUNDATION VENTS SHALL BE PLACED SO THAT THE TOP OF THE VENT IS BELOW THE LOWER SURFACE OF THE FLOOR INSULATION PER 2018 IRC, R402.2.7.

PROVIDE AN EAVE BAFFLE FOR AIR PERMEABLE INSULATION IN THE VENTED ATTIC MAINTAINING AN OPENING EQUAL OR GREATER THAN THE SIZE OF THE VENT EXTENDING OVER THE TOP OF THE INSULATION PER 2018 IRC, R402.2.3.

PROVIDE AND SPECIFY HIGH-EFFICIENCY FIXTURES FOR ALL OUTDOOR LIGHTING ATTACHED TO THE BUILDING OR PROVIDE PHOTO DAYLIGHT CONTROL AND A MOTION SENSOR PER 2018 IRC.

PROVIDE AND SPECIFY THAT 75% OF PERMANENTLY INSTALLED LAMPS IN LIGHTING FIXTURES SHALL BE HIGH-EFFICIENCY LAMPS PER 2018 IRC, R404.1.

SECTION R406:

ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS

R406.1 SCOPE. THIS SECTION ESTABLISHES OPTIONS FOR ADDITIONAL CRITERIA TO BE MET FOR ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES, AS DEFINED IN SECTION 101.2 OF THE INTERNATIONAL RESIDENTIAL CODE TO DEMONSTRATE COMPLIANCE WITH THIS CODE.

R406.2 ADDITIONAL ENERGY EFFICIENCY REQUIREMENTS (MANDATORY). EACH DWELLING UNIT IN ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES, AS DEFINED IN SECTION 101.2 OF THE INTERNATIONAL RESIDENTIAL CODE SHALL COMPLY WITH SUFFICIENT OPTIONS FROM TABLE R406.2.0 SO AS TO ACHIEVE THE FOLLOWING MINIMUM NUMBER OF CREDITS: 2018 WASHINGTON STATE ENERGY CODE RE-33

1. SMALL DWELLING UNIT: \_\_\_\_\_ 0.5 POINTS DWELLING UNITS LESS THAN 1500 SQUARE FEET IN CONDITIONED FLOOR AREA WITH LESS THAN 300 SQUARE FEET OF PENETRATION AREA. ADJUSTIONS TO EXISTING BUILDING THAT ARE LESS THAN 750 SQUARE FEET OF HEATED FLOOR AREA.
2. MEDIUM DWELLING UNIT: \_\_\_\_\_ 1.5 POINTS ALL DWELLING UNITS THAT ARE NOT INCLUDED IN #1 OR #3.
3. LARGE DWELLING UNIT: \_\_\_\_\_ 2.5 POINTS DWELLING UNITS EXCEEDING 8000 SQUARE FEET OF CONDITIONED FLOOR AREA.

THE DRAWINGS INCLUDED WITH THE BUILDING PERMIT APPLICATION SHALL IDENTIFY WHICH OPTIONS HAVE BEEN SELECTED AND THE POINT VALUE OF EACH OPTION, REGARDLESS OF WHETHER SEPARATE MECHANICAL, PLUMBING, ELECTRICAL, OR OTHER PERMITS ARE UTILIZED FOR THE PROJECT.

TABLE 406.2 - ENERGY CREDITS (DEBITS), OPTION DESCRIPTION (CREDITS)

1a - EFFICIENT BUILDING ENVELOPE 1a:

PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.1 WITH THE FOLLOWING MODIFICATIONS:

FENESTRATION U = 0.28

FLOOR R-38

SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE SLAB

BELOW GRADE SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB

OR

COMPLIANCE BASED ON SECTION R402.1.4: REDUCE THE TOTAL UA BY 5% 0.5

1b - EFFICIENT BUILDING ENVELOPE 1b:

PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.1 WITH THE FOLLOWING MODIFICATIONS:

FENESTRATION U = 0.25

WALL R-21 PLUS R-4

FLOOR R-38

BASEMENT WALL R-21 INT PLUS R-5 CI

SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE SLAB

BELOW GRADE SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB

OR

COMPLIANCE BASED ON SECTION R402.1.4: REDUCE THE TOTAL UA BY 15% 1.0

1c - EFFICIENT BUILDING ENVELOPE 1c:

PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1.1 WITH THE FOLLOWING MODIFICATIONS: FENESTRATION U = 0.22

CEILING AND SINGLE-RAFTER OR JOIST-VAULTED R-49 ADVANCED

WOOD FRAME WALL R-21 INT PLUS R-12 CI

FLOOR R-38

BASEMENT WALL R-21 INT PLUS R-12 CI

SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE SLAB

BELOW GRADE SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB

OR

COMPLIANCE BASED ON SECTION R402.1.4: REDUCE THE TOTAL UA BY 30% 2.0

2a - AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION 2a:

COMPLIANCE BASED ON R402.41.2: REDUCE THE TESTED AIR LEAKAGE TO 4.0 AIR CHANGES PER HOUR MAXIMUM

AND

ALL WHOLE HOUSE VENTILATION REQUIREMENTS AS DETERMINED BY SECTION M1507.3 OF THE INTERNATIONAL RESIDENTIAL CODE SHALL BE MET WITH A HIGH EFFICIENCY FAN (MAXIMUM 0.435 WATTS/CFM), NOT INTERLOCKED WITH THE FURNACE FAN. VENTILATION SYSTEMS USING A FURNACE INCLUDING AN ECM MOTOR ARE ALLOWED PROVIDED THAT THEY ARE CONTROLLED TO OPERATE AT LOW SPEED IN VENTILATION ONLY MODE.

TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE MAXIMUM TESTED BUILDING AIR LEAKAGE AND SHALL SHOW THE HEAT RECOVERY VENTILATION SYSTEM.

3a - HIGH EFFICIENCY HVAC EQUIPMENT 3a:

GAS PROPAANE OR OIL-FIRED FURNACE WITH MINIMUM AFUE OF 95% OR GAS, PROPANE OR OIL-FIRED BOILER WITH MINIMUM AFUE OF 92%.

TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE HEATING EQUIPMENT TYPE AND THE MINIMUM EQUIPMENT EFFICIENCY.

3b - EFFICIENT WATER HEATING 3b:

WATER HEATING SYSTEM SHALL INCLUDE ONE OF THE FOLLOWING: GAS, PROPANE OR OIL WATER HEATER WITH MINIMUM EF OF 0.82

OR

ELECTRIC HEAT PUMP WATER HEATER WITH A MINIMUM EF OF 2.0 AND MEETING THE STANDARDS OF NEEA'S NORTHERN CLIMATE SPECIFICATIONS FOR HEAT PUMP WATER HEATERS

OR

WATER HEATER HEATED BY GROUND SOURCE HEAT PUMP MEETING THE REQUIREMENTS OF OPTION 3a.

TO QUALIFY TO CLAIM THIS CREDIT, THE BUILDING PERMIT DRAWINGS SHALL SPECIFY THE OPTION BEING SELECTED AND SHALL SPECIFY THE WATER HEATER EQUIPMENT TYPE AND THE MINIMUM EQUIPMENT EFFICIENCY AND, FOR SOLAR WATER HEATING SYSTEMS, THE CALCULATION OF THE MINIMUM ENERGY SAVINGS.

## WINDOWS / DOORS :

IN EACH SLEEPING ROOM AN EGRESS WINDOW OR DOOR SHALL BE PROVIDED THAT HAS 5.7 SF. OF CLEAR NET OPERABLE AREA. THE SMALLEST CLEAR MIN. DIMENSION SHALL NOT BE LESS THAN 20" IN WIDTH OR 24" IN HEIGHT. WINDOW SILLS IN SLEEPING ROOMS NOT TO EXCEED 44" ABOVE FLOOR PER 2018 IRC, R310 & 310.1.

ALL WINDOWS TO BE DOUBLE-GLAZED WITH A MINIMUM U-VALUE OF 0.30 OR BETTER.

ALL GLAZING IN A DOOR OR WITHIN 12" OF DOOR, OR WITHIN 18" OF FLOOR OR WITHIN 60" OF TUB FLOOR, OR ANY OTHER HAZARDOUS AREA PER CODE, TO BE TEMPERED SAFETY GLASS.

20 MIN. SELF-CLOSING DOOR W/ WEATHER STRIPPING REQUIRED AT GARAGE ENTRANCE TO LIVING SPACE.

PROVIDE AT LEAST ONE EGRESS DOOR THAT IS SIDE HINGED WITH A MINIMUM CLEAR OPEN WIDTH OF 32" (36" WIDE DOOR) AND MINIMUM CLEAR HEIGHT OF NOT LESS THAN 78" PER 2018 IRC, R312.1.2.

WINDOW SILLS - WHERE THE OPENING OF AN OPERABLE WINDOW IS LOCATED MORE THAN 72" ABOVE FINISHED GRADE OR SURFACE BELOW, THE SILL SHALL BE A MINIMUM OF 24" ABOVE THE FINISHED FLOOR OF THE ROOM IT IS IN. OPERABLE SECTIONS OF WINDOWS SHALL NOT PERMIT OPENINGS THAT ALLOW PASSAGE OF 4" DIAMETER SPHERE WHERE OPENINGS ARE WITHIN 24" OF THE FLOOR. PER 2018 IRC, R312.1.1.

SKYLIGHT GLAZING MATERIAL TO MEET ALL REQUIREMENTS PER 2018 IRC, R308.6.2

PROVIDE MINIMUM 4" CURB HEIGHT FOR SKYLIGHTS PER 2018 IRC, R308.6.A

## GLAZING :

TO BE IN COMPLIANCE WITH IRC 2012, SECTION R308 AND WASHINGTON STATE SAFETY OR TEMPERED GLASS. EXCEPTIONS ARE AS OUTLINED IN IRC 2018, SECTION R308.4. HAZARDOUS LOCATIONS ARE:

1. GLAZING IN ALL FIXED AND PERABLE PANELS OF SWINGING, SLIDING AND BIFOLD DOORS.
2. GLAZING IN ALL INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARC OF THE DOOR IN A CLOSED POSITION AND WHERE BOTTOM EDGE IS LESS THAN 60" ABOVE THE FLOOR OR WALKING SURFACE.
3. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS:
  - 3.1 THE EXPOSED AREA OF AN INDIVIDUAL PANE IS LARGER THAN 9 SF.
  - 3.2 THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE THE FLOOR.
  - 3.3 THE TOP EDGE OF THE GLAZING IS MORE THAN 36" ABOVE THE FLOOR.
  - 3.4 ONE OR MORE WALKING SURFACES ARE WITHIN 36" MEASURED HORIZONTALLY AND IN A STRAIGHT LINE OF THE GLAZING.
4. ALL GLAZING IN RAILINGS REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE. INCLUDED ARE STRUCTURAL BALLISTER PANELS AND NONSTRUCTURAL INFILL PANELS.
5. GLAZING IN ENCLOSURES FOR OR WALLS FACING HOT TUBS, WHIRLPOOLS, SAUNAS, STEAMROOMS, BATHTUBS AND SHOWERS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60" MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACE.

## VENTILATION :

- PROVIDE PROPER ROOF & CRAWL SPACE VENTILATION PER 2018 IRC.

- VENT DRYER TO OUTSIDE PER MECHANICAL CODE.
- VENT ALL FANS TO OUTSIDE W/ 3" MIN. SEPARATION TO BUILDING OPENINGS.
- VENT HOT WATER TANK TO EXPANSION TANK.
- VENT DISHWASHER AT SINK.

## EXHAUST MINIMUMS :

PROVIDE SOURCE SPECIFIC INTERMITTENT OPERATION EXHAUST FANS WITH THE FOLLOWING MINIMUM STANDARDS:

BATHROOMS:	80 CFM
LAUNDRY ROOM:	190 CFM
KITCHEN HOODS & DOWNDRAFTS:	1200 CFM

PROVIDE WHOLE HOUSE VENTILATION SYSTEM SO AS TO CONFORM WITH STATE VENTILATION AND INDOOR AIR CODE.

- CURRENT EDITION AND SHALL BE CAPABLE WITH THE FOLLOWING MINIMUM STANDARDS.
- BE SIZED ACCORDING TO TABLE 3-2 W/SC AT 0.25" W.G. & SOUND RATED AT 1.5 SONES MAX..
- BE CONTROLLED BY READILY ACCESSIBLE 24 HR. TIMER. CAPABLE OF CONTINUOUS OPERATION WITH MANUAL & AUTOMATIC CONTROL.
- INSULATED DUCTS SIZED TO MIN. R-4 & TERMINATED OUTSIDE BUILDING.

ALL UNITS WILL BE SEALED COMBUSTION DIRECT VENTS. THEY WILL HAVE TWO PVC VENTS OFF EACH UNIT, ONE EXHAUST AND ONE COMBUSTION.

DRYERS ON BOTH FLOORS WILL GO DOWN THROUGH THE FLOOR IN JOIST BAY AND OUT TO RIM. THEY WILL HAVE ONE ELBOW AND BE 12" LONG.

## CRAWL VENTILATION :

TOTAL CUBIC FEET DIVIDED BY 15.124 CFM CONTINUOUSLY RUNNING TWO FAN TIC FG-8 IN LINE FANS, ONE INTAKE AND ONE EXHAUST.

## ATTIC :

APPLY ROOFING IN ACCORDANCE WITH IRC 2018, SECTION R905. PROVIDE ATTIC VENTILATION AS INDICATED ON ROOF FRAMING PLANS/ROOF DETAILS

ATTIC VENTILATION: THE TOTAL NET FREE VENTILATION AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT REDUCTION OF THE TOTAL AREA TO 1/300 IS PERMITTED PROVIDED THAT AT LEAST 50% AND NOT MORE THAN 80% OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE THE EAVE OR CORNICE VENTS, AS AN ALTERNATE, THE NET FREE CROSS VENTILATION AREA MAY BE REDUCED TO 1/300 WHEN A CLASS I OR II VAPOR BARRIER IS INSTALLED ON THE WARM-IN-WATER SIDE OF THE CEILING. (IRC 2012, SECTION R806.2)

ATTIC ACCESS OPENING MUST BE PROVIDED FOR ALL ATTIC AREAS THAT EXCEED 30 SF. AND HAVE A VERTICAL HEIGHT OF 30' OR GREATER. ROUGH FRAMED OPENING MIN. 22"x30". ACCESS TO BE UNOBSTRUCTED AND READILY ACCESSIBLE. WHEN LOCATED IN A CEILING, MIN. 30" UNOBSTRUCTED HEADROOM AT SOME POINT ABOVE THE ACCESS MEASURED VERTICALLY FROM THE BOTTOM OF CEILING FRAMING MEMBERS. (IRC 2018, SECTION R807.1)

PROVIDE 2" MIN. CONTINUOUS SCREEN VENT AT EACH END OF EACH RAFTER, ROOF TRUSS BAY.

## MECHANICAL AND ELECTRICAL :

ALL WASTE LINES TO BE INSULATED WITH ACOUSTIC INSULATION. CAST IRON PIPING AT KEY LOCATIONS PER PLAN.

ELECTRICAL WIRING SHALL CONFORM TO THE 2018 WASHINGTON STATE ELECTRICAL CODE.

INSTALL OUTLETS AND SWITCHES AT HEIGHTS AND LOCATIONS REQUIRED BY 2018 IRC AND THE 2018 WASHINGTON STATE ELECTRICAL CODE.

LIGHTING WATTAGE SHALL MEET THE 2018 WASHINGTON STATE ELECTRICAL CODE.

PROVIDE SMOKE DETECTORS TO MEET THE 2018 IRC AND 2018 INTERNATIONAL FIRE CODE. SMOKE DETECTORS SHALL BE HARD WIRED AND EQUIPPED WITH BATTERY BACK UP. SMOKE DETECTORS SHALL SOUND AN ALARM THAT IS AUDIBLE THROUGH OUT THE BUILDING. SMOKE DETECTORS SHALL BE PLACES AT LEAST ON PER LEVEL, ONE IN EACH SLEEPING ROOM, ONE IN HALLWAY GIVING ACCESS TO THE SLEEPING ROOMS.

PROVIDE CARBON MONOXIDE DETECTORS AT ALL LEVEL PER 2018 IRC.

INSTALL A MONITORED NFPA 72 LOW VOLTAGE FIRE ALARM SYSTEM WITH HEAT SENSOR IN THE GARAGE. MONITORING COMPANY TO BE LICENSED AND BONDED.

INSTALL AN EXTERIOR SIREN CONNECTED INTO THE ALARM SYSTEM.

VERTICAL DISTANCE BETWEEN COOK TOP OF RANGE AND HOOD SHALL BE NO LESS THAN 30".

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FP-1 (TO BE DETERMINED)  
FP-2 (TO BE DETERMINED)

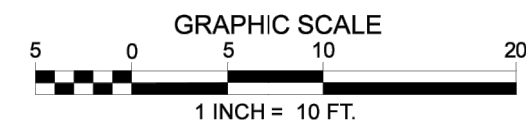
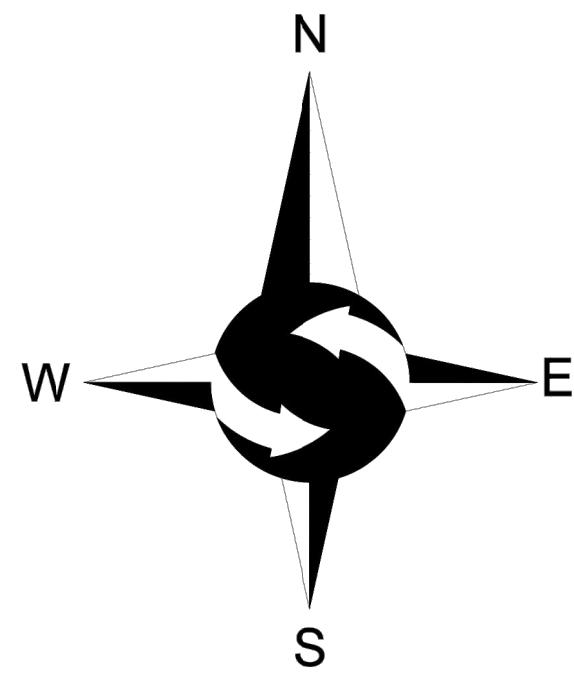
# PROJ. TEAM

## OWNER:

JEREME RAQUEPAU







**LEGEND**

	FOUND MONUMENT IN CASE		OHP OVERHEAD POWER
	FOUND REBAR AS DESCRIBED		OHU OVERHEAD UTILITIES
	FOUND NAIL AS DESCRIBED		WOOD FENCE
	SET MAG NAIL AS DESCRIBED		CONCRETE WALL
	SET 5/8" X 24" IRON ROD W/ 1" YELLOW PLASTIC CAP		MAILBOX
	POWER METER		ASPHALT SURFACE
	GAS METER		CONCRETE SURFACE
	GUY WIRE		BRICK SURFACE
	UTILITY POLE		FLAGSTONE SURFACE
	YARD DRAIN		CE CEDAR
	SANITARY SEWER MANHOLE		DF DOUGLAS FIR
	WATER VALVE		DS DECIDUOUS
	FIRE HYDRANT		* INDICATES MULTI-TRUNK
	WATER METER		
	SS APPROXIMATE LOCATION SANITARY SEWER LINE		
	W APPROXIMATE LOCATION UNDERGROUND WATER LINE		

**LEGAL DESCRIPTION**

LOT 12 OF EL DORADO ESTATES, AS PER PLAT RECORDED IN VOLUME 62 OF PLATS, PAGE 7, RECORDS OF KING COUNTY AUDITOR;  
SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

**BASIS OF BEARINGS**

RECORD OF SURVEY BY TERRANE, RECORDED IN VOLUME 390 OF SURVEYS, PAGE 163, UNDER RECORDING NO. 2018083090020, RECORDS OF KING COUNTY, WASHINGTON.

**PROJECT INFORMATION**

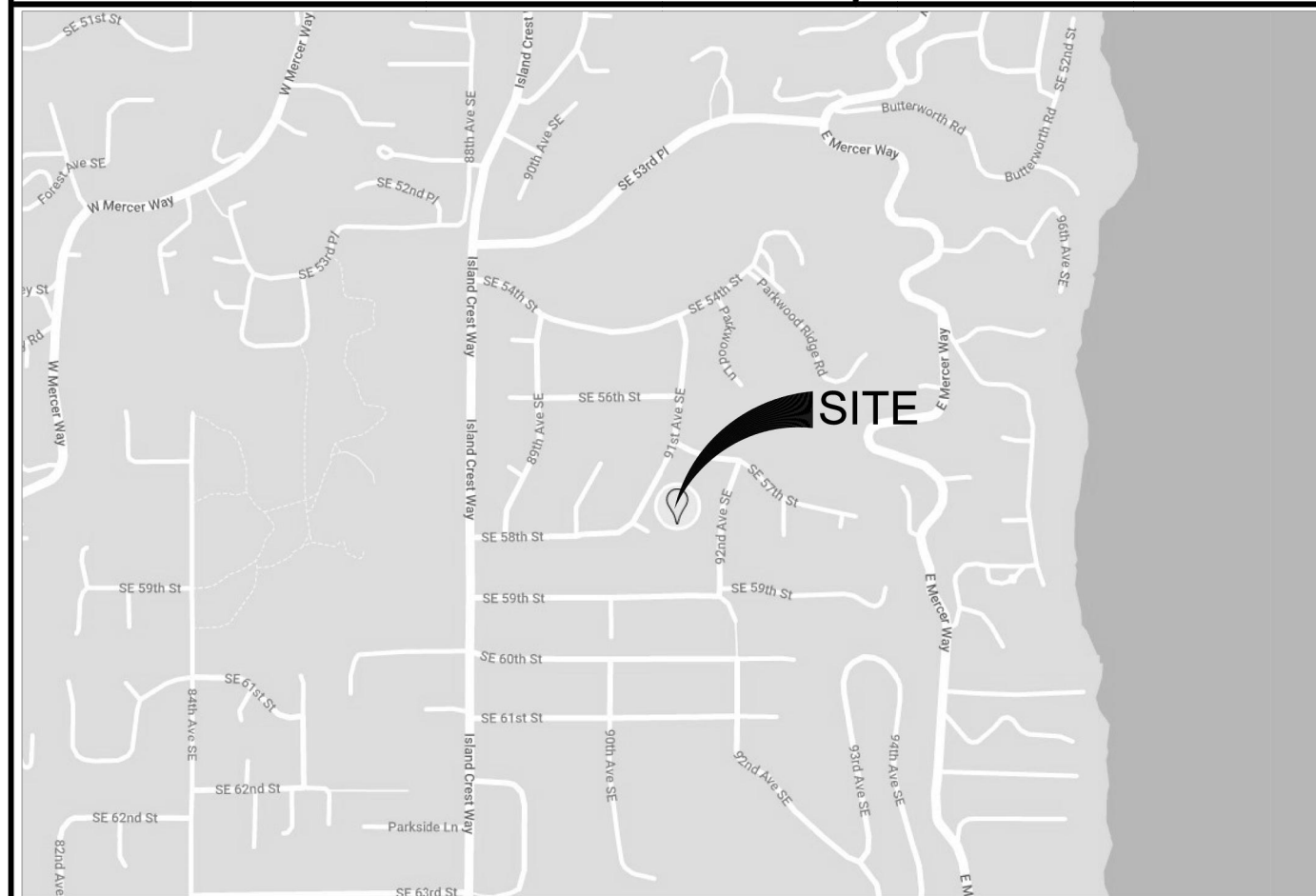
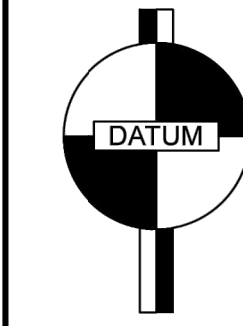
PROPERTY OWNER:	JEREME RAQUEPAU & ANGELA GRIBBLE 9116 SE 58TH STREET MERCER ISLAND, WA 98040
TAX PARCEL NUMBER:	228700-0120
PROJECT ADDRESS:	9116 SE 58TH STREET MERCER ISLAND, WA 98040
ZONING:	R-9.6
JURISDICTION:	CITY OF MERCER ISLAND
PARCEL ACREAGE:	12,192 S.F. (0.280 ACRES) AS SURVEYED

**GENERAL NOTES**

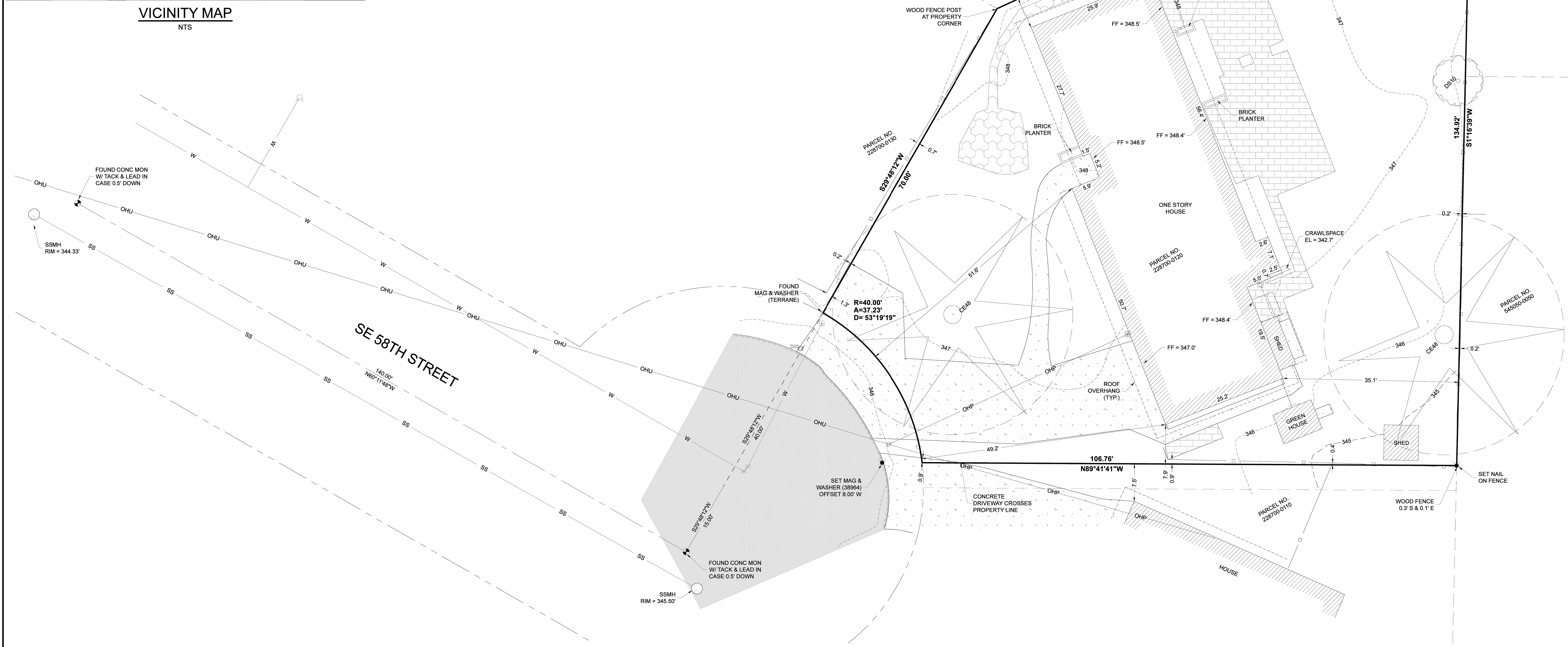
- THIS SURVEY WAS COMPLETED WITHOUT BENEFIT OF A CURRENT TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST ON THIS PROPERTY THAT ARE NOT SHOWN HEREON.
- INSTRUMENTATION FOR THIS SURVEY WAS A 3-SECOND SPECTRAPRECISION FOCUS 35 TOTAL STATION AND AN EMLID REACH RS2 GPS RECEIVER. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET BY WAC 332-130-090.
- THE INFORMATION ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE IN JANUARY 2023 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
- UTILITIES SHOWN ON THIS SURVEY ARE BASED UPON ABOVE GROUND OBSERVATIONS AND AS-BUILT PLANS WHERE AVAILABLE. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES MAY VARY AND UTILITIES NOT SHOWN ON THIS SURVEY MAY EXIST ON THIS SITE.
- ALL MONUMENTS WERE LOCATED DURING THIS SURVEY UNLESS OTHERWISE NOTED.

**VERTICAL DATUM & CONTOUR INTERVAL**

ELEVATIONS SHOWN ON THIS DRAWING WERE DERIVED FROM GPS OBSERVATION USING THE WSRN.  
DATUM - NAVD 88  
2' CONTOUR INTERVAL - THE EXPECTED VERTICAL ACCURACY IS EQUAL TO 1/2 THE CONTOUR INTERVAL OR PLUS / MINUS 1.0' FOR THIS PROJECT.



**VICINITY MAP**  
NTS



NE 1/4, SW 1/4, SEC 19, TWP 24N, RNG 5E, W.M.



DATE	REVISION	DRN

**TOPOGRAPHIC SURVEY**

JEREME RAQUEPAU  
9116 SE 58TH STREET  
MERCER ISLAND, WA 98040

PROJECT NO. 22-702  
DRAWN BY: MTS  
CHECKED BY: TNW  
DATE: 1/13/2023  
SHEET 1 OF 1



**CITY OF MERCER ISLAND**  
**COMMUNITY PLANNING & DEVELOPMENT**  
 9611 SE 36TH STREET | MERCER ISLAND, WA 98040  
 PHONE: 206.275.7605 | WWW.CITYOFMERCERISLAND.WA.GOV

**MERCER ISLAND TREE INVENTORY & REPLACEMENT**  
**SUBMITTAL INFORMATION**

**PROJECT INFORMATION**

Property Owner Name: **Jeremy & Angela Raquepau**  
 Site Address or Parcel Number: **9116 SE 58th St**  
 Project Contact Name: **Richard Flake**  
 Contact Email Address: **richard@rfarchitecture.com**  
 Contact Phone Number: **(253) 359-4039**

**EXCEPTIONAL TREES**

*Exceptional Trees* - means a tree or group of trees that because of its unique historical, ecological or aesthetic value constitutes an important community resource. A tree that is rare or exceptional by virtue of its size, species, condition, cultural/historical importance, age, and/or contribution as part of a tree grove. Trees with a diameter of more than 36 inches, or with a diameter that is equal to or greater than the diameter listed in the Exceptional Tree Table shown in MICC 19.16 under Tree, Exceptional.

List the total number of trees for each category and the tree identification numbers from the arborist report.

Number of trees 36" or greater	2
List tree numbers: #1, #2	
Number of trees 24" or greater (including 36" or greater)	3
List tree numbers: #1, #2, #6	
Number of trees from Exceptional Tree Table (MICC 19.16)	3
List tree numbers: (2) Western Red Cedar: #1 and #2, (1) Douglas Fir #6	

**LARGE REGULATED TREES**

*Large Regulated Trees* - means any tree with a diameter of 10 inches or more, and any tree that meets the definition of an Exceptional Tree.

Number of Large Regulated Trees on site	6	(A)
List tree numbers: 1,2,3,4,5,6		
Number of Large Regulated Trees on site proposed for removal	0	(B)
List tree numbers: N/A		
Percentage of trees to be retained ((A-B)/Ax100) note: must be at least 30%	100	%

**RIGHT OF WAY TREES**

*Right of Way Trees* - means a tree that is located in the street right of way adjacent to the project property.

Number of Large Regulated Trees in right of way	0
List tree numbers: N/A	
Number of Large Regulated Trees in right of way proposed for removal	0
List tree numbers: N/A	
Reason for removal: N/A	

**TREE REPLACEMENT**

Tree replacement- removed trees must be replaced based on the ratio in the table below. Replacement trees shall be conifers at least six feet tall and or deciduous at least one and one-half inches in diameter at base.

Diameter of Removed Tree (measured 4.5' above ground)	Tree replacement Ratio	Number of Trees Proposed for Removal	Number of Tree Required for Replacement Based on Size/Type
Less than 10"	1	0	
10" up to 24"	2	0	
Greater than 24" up to 36"	3	0	
Greater than 36" and any Exceptional Tree	6	0	
<b>TOTAL TREE REPLACEMENTS</b>			0

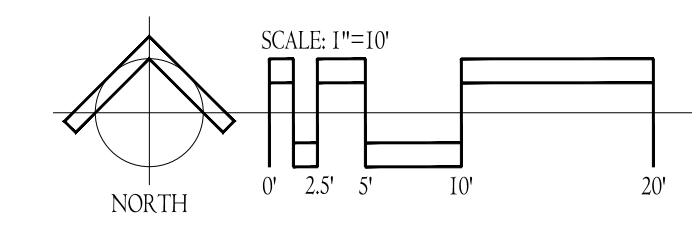
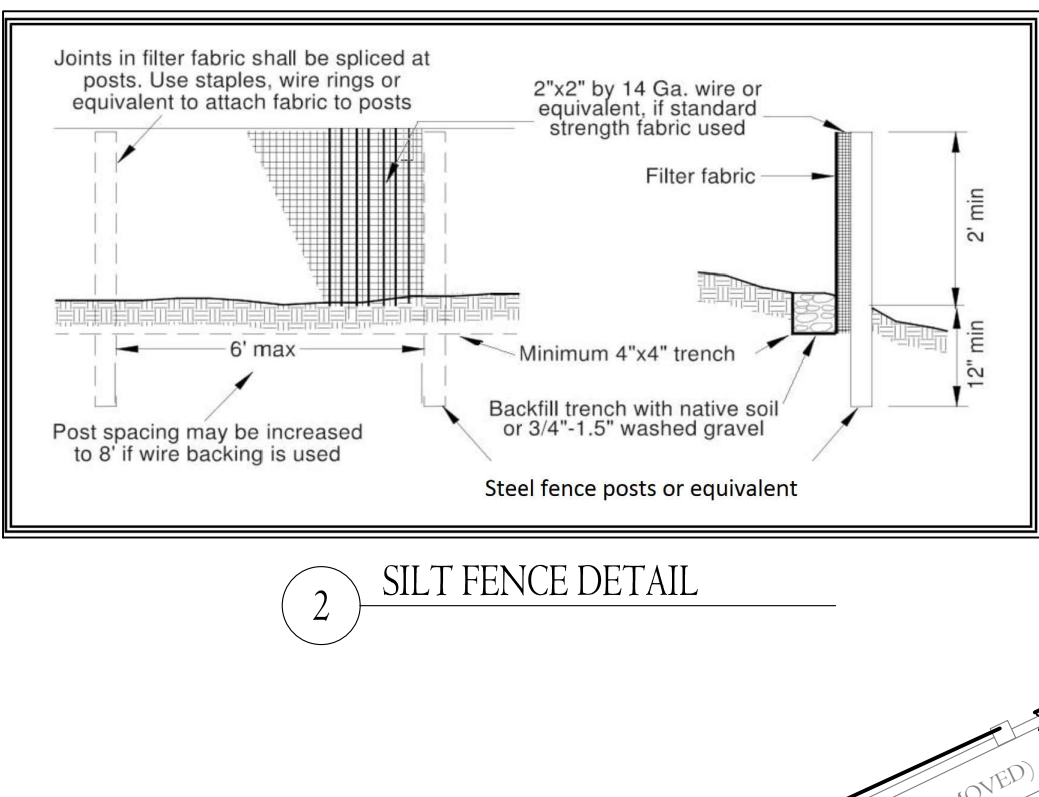
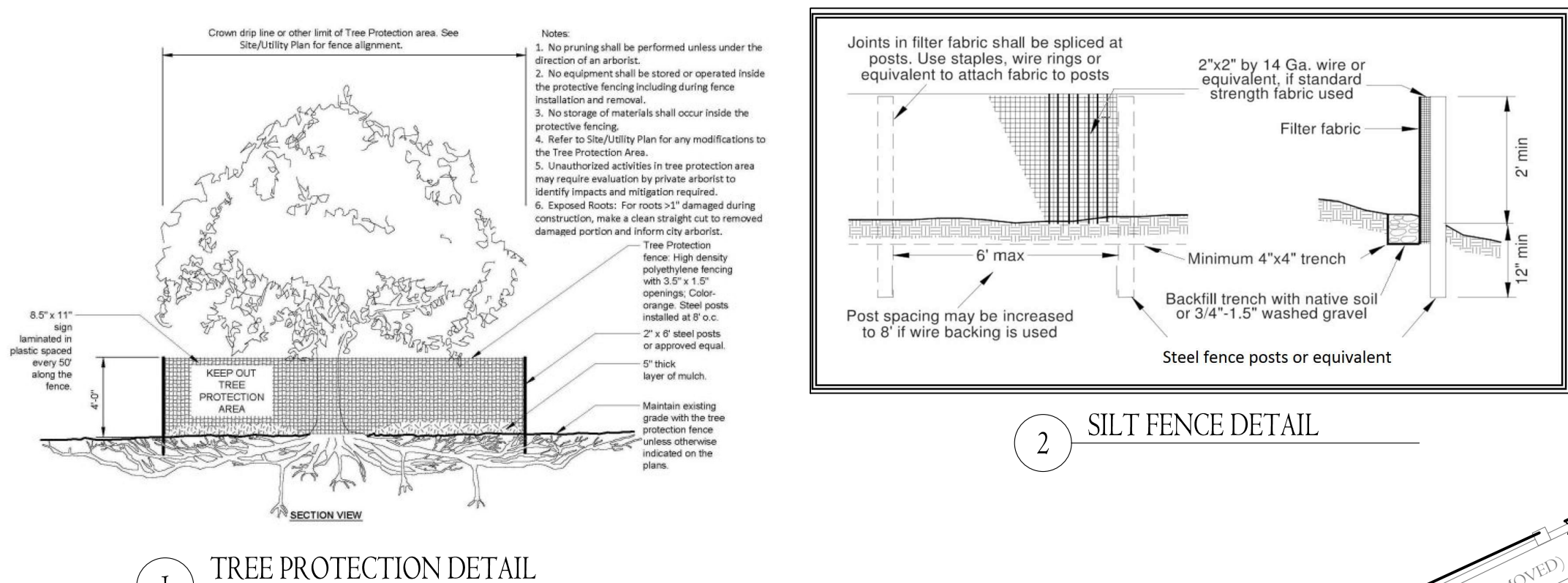
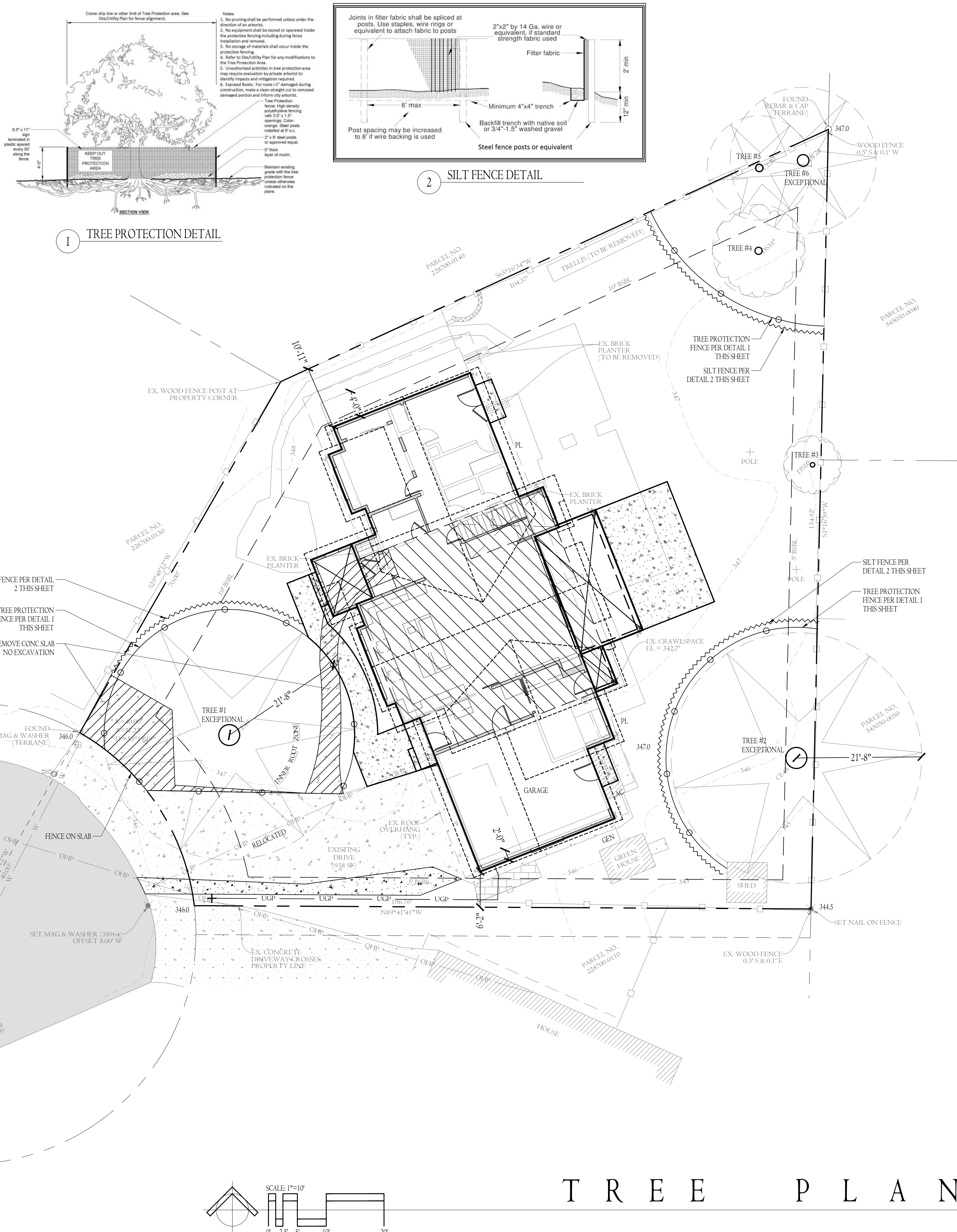
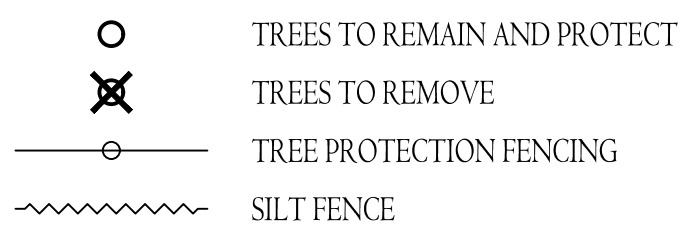
\*no replacement tree is needed if the tree fits all of the following:  
 Less than 10 inches in diameter, not an exceptional tree, and not a replacement tree from another tree permit.\*

NAME: RAQUEPAU  
 PROJECT: 9116 SE 58TH ST

TREE #	TYPE	DBH"	DRPLN RAD'	STATUS	REMARKS
TREE #1	CE48	48"	21'-8"	RETAIN	EXCEPTIONAL
TREE #2	CE48	48"	21'-8"	RETAIN	EXCEPTIONAL
TREE #3	DS10	10"	5'	RETAIN	
TREE #4	DS16	16"	8'	RETAIN	
TREE #5	CE20	20"	9'	RETAIN	
TREE #6	DF28	28"	12'-6"	RETAIN	EXCEPTIONAL

**TREE NOTES**      **TREE LEGEND**

- TREE PROTECTION FENCING SHALL CONSIST OF 6' TALL CHAIN-LINK FENCING, SECURELY STAKED INTO PLACE.
- TREE PROTECTION ZONE SIGNAGE, PER MERCER 2 ISLAND CODE SHALL BE POSTED EVERY TEN FEET (10') ALONG THE FENCE PERIMETER AND SHALL BE MADE TO BE WEATHER RESISTANT.
- TREE PROTECTION FENCING SHALL BE PLACED AS 3. SHOW ON THE PLAN.
- INVASIVE OR NON-NATIVE SPECIES SHALL BE 4. REMOVED, BY THE USE OF HAND TOOLS, WITHIN THE TREE PROTECTION ZONE.
- BARE SOILS INSIDE THE TREE PROTECTION ZONE 5. SHOULD BE COVERED WITH ARBORIST CHIPS OR A COMMERCIAL MULCH MATERIAL, TO A DEPTH OF 3".
- NO PRUNING OF LIMBS SHOULD BE NECESSARY FOR 6. BUILDING CLEARANCE OR CONSTRUCTION AREA ACCESS. IF LIMBS DO NEED TO BE TRIMMED, THIS WORK SHALL BE DONE UNDER THE SUPERVISION OF A PROFESSIONAL TREE PERSON.



**TREE PLAN**

**RAQUEPAU RESIDENCE**  
 R E M O D E L & A D D I T I O N  
 9 1 1 6 S E 5 8 T H S T T R E E T  
 M E R C E R I S L A N D , W A 9 8 0 4 0

**REGISTERED ARCHITECT**  
 RICHARD FLAKE ARCHITECT  
 PH: (253) 359-4039  
 richard@rfarchitecture.com  
 7421 21st Ave E Bonney Lake, WA 98391

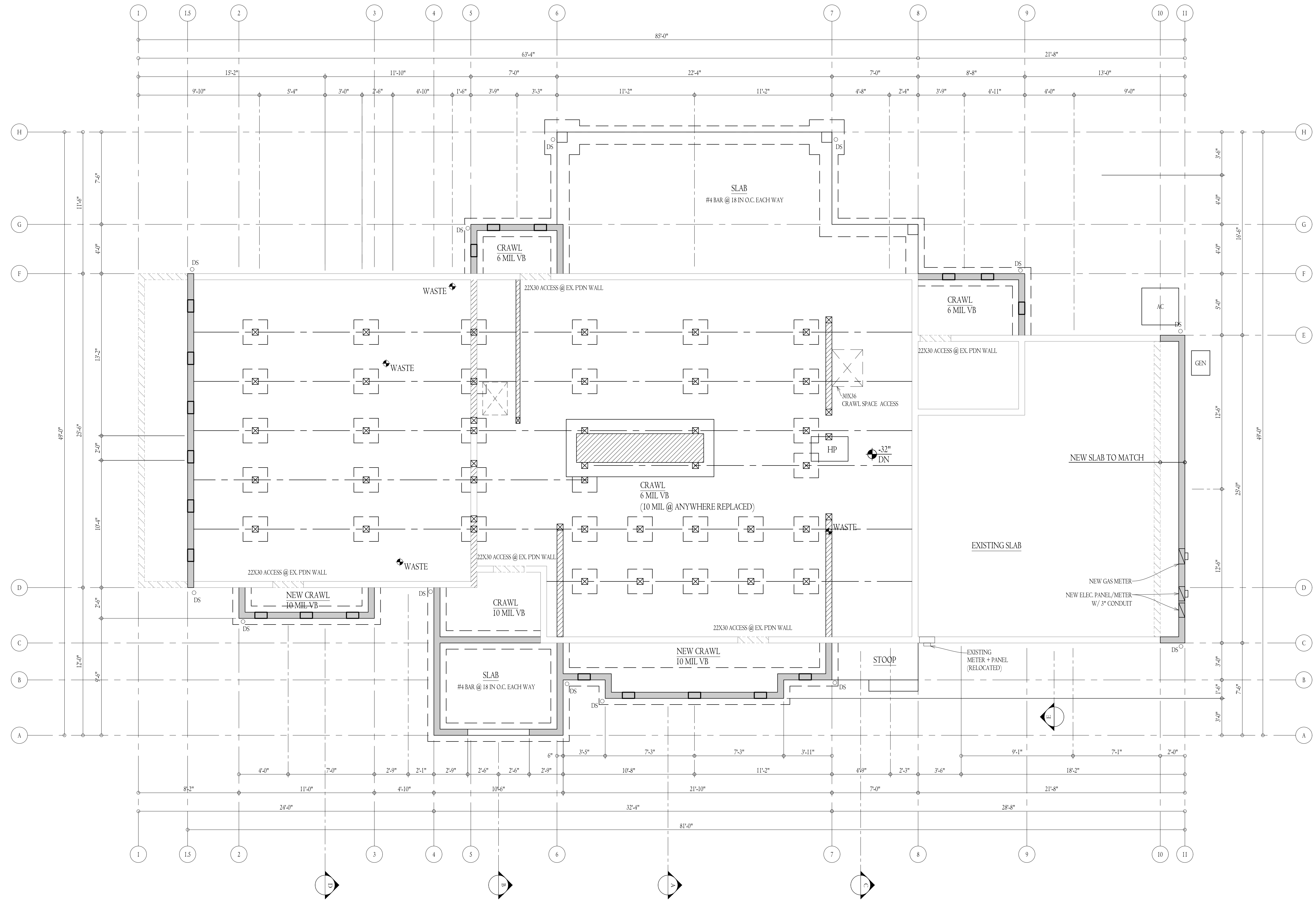
DESIGN: RWF  
 DRAWN: HAVILAND CONSULTING  
 CHECKED: RWF  
 REVISIONS:

Nov 16, 2023  
**A-I-2**







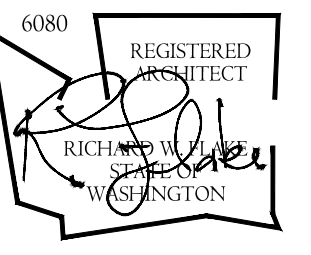


\*COORDINATE WITH STRUCTURAL FOUNDATION PLAN

# FOUNDATION PLAN LEGEND

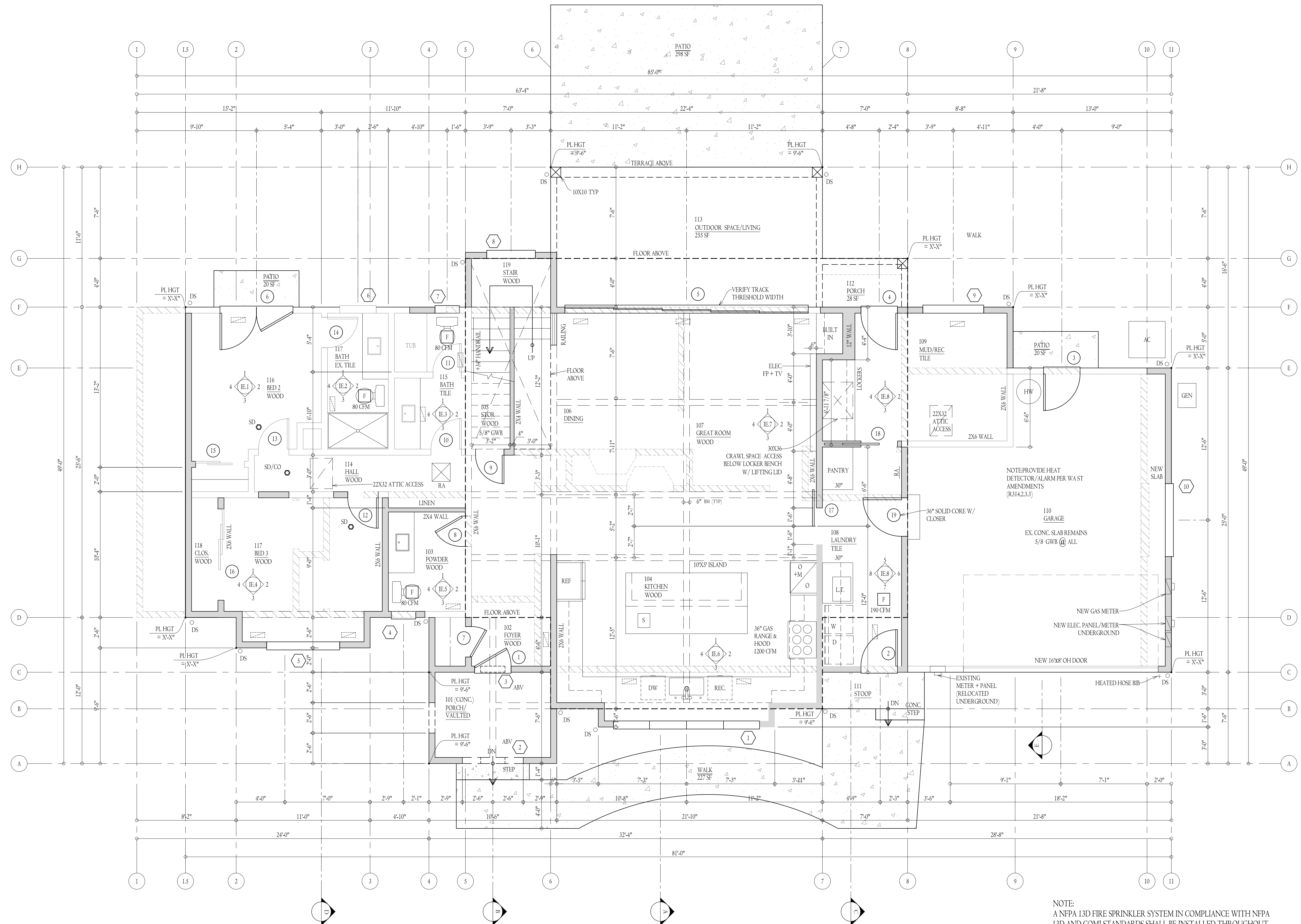
SCALE: 1/4"=1'-0"

- |  |                    |  |                          |
|--|--------------------|--|--------------------------|
|  | FOUNDATION REMOVED |  | 7X14 SCREENED VENT (TYP) |
|  | NEW FDN WALL       |  |                          |
|  | EXISTING FDN WALL  |  |                          |
|  | LOAD BRG ABOVE     |  |                          |
|  | NEW POST & FTG     |  |                          |



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 DRAWN:   
 CHECKED: RWF  
 REVISIONS:



MAIN FLOOR PLAN LEGEND

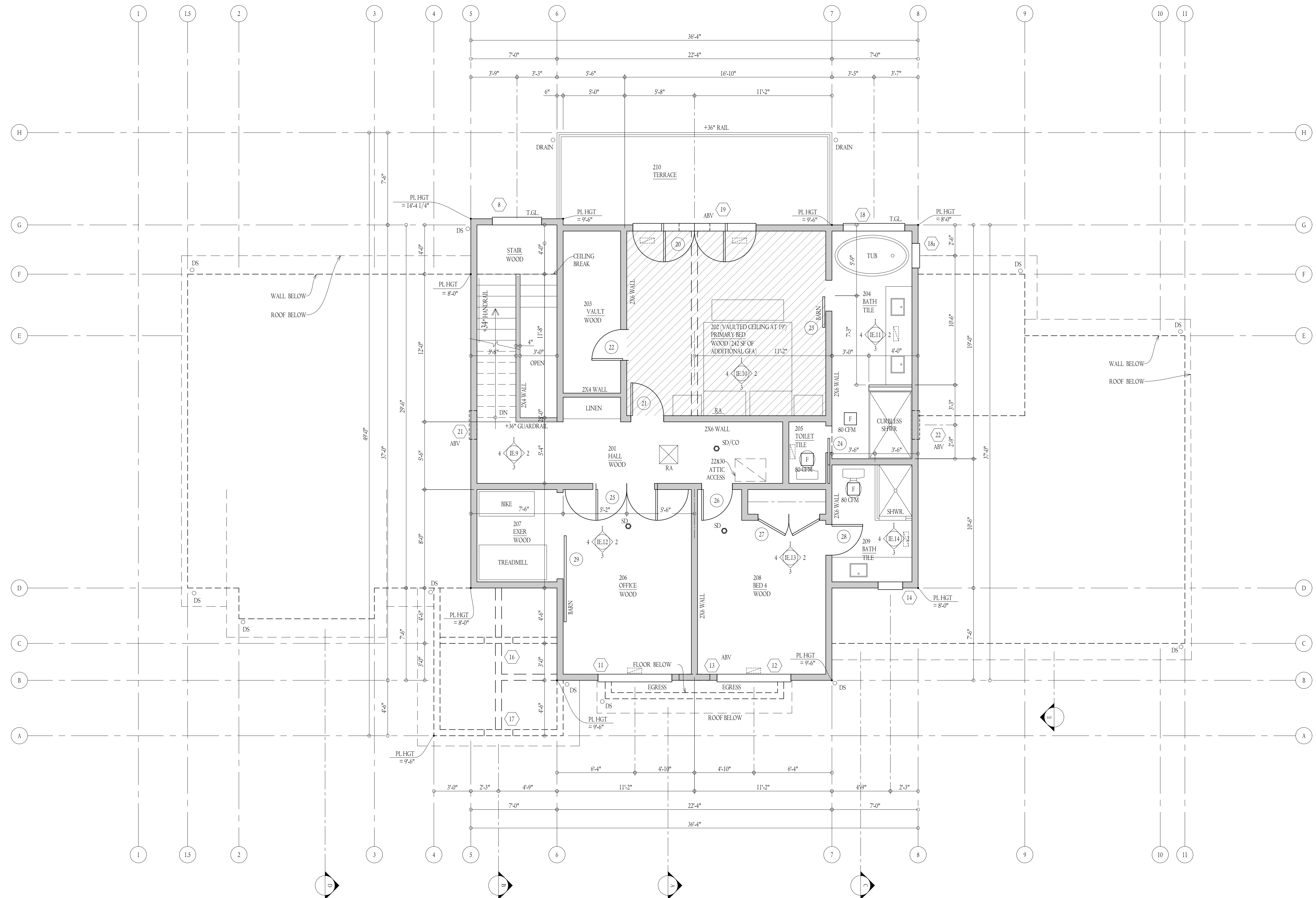
GFA <sub>1</sub> = 1944+77+478+28+257= 2,784	1,944 SF HEATED FLOOR	435 SF GARAGE EXISTING	SCALE: 1/4"=1'-0"	EXISTING REMOVED
GFA <sub>2</sub> = 1,776	1,131 SF HEATED FLOOR UPPER	478 SF GARAGE NEW		NEW WALLS
4,560	3,075 SF TOTAL HEATED FLOOR AREA	227 SF WALKWAYS		EXISTING TO REMAIN
4,560/12,192 = 37.4% GFA TOTAL		338 SF UNCOVERED PATIOS		

NOTE:  
 A NFPA 13D FIRE SPRINKLER SYSTEM IN COMPLIANCE WITH NFPA 13D AND COMI STANDARDS SHALL BE INSTALLED THROUGHOUT THE RESIDENCE. A SEPARATE FIRE PERMIT IS REQUIRED.  
 MINIMUM OF 1" WATER METER WATER SUPPLY LINE.

6080 REGISTERED ARCHITECT  
 RICHARD FLAKE ARCHITECTURE  
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 DRAWN:  
 CHECKED: RWF  
 REVISIONS:





# UPPER FLOOR PLAN LEGEND

I,131 SF HEATED FLOOR ADDITION  
 SCALE: 1/4"=1'-0"  
 EXISTING REMOVED  
 NEW WALLS  
 EXISTING TO REMAIN

6080 REGISTERED ARCHITECT  
 RICHARD FLAKE ARCHITECT  
 SEATTLE, WASHINGTON

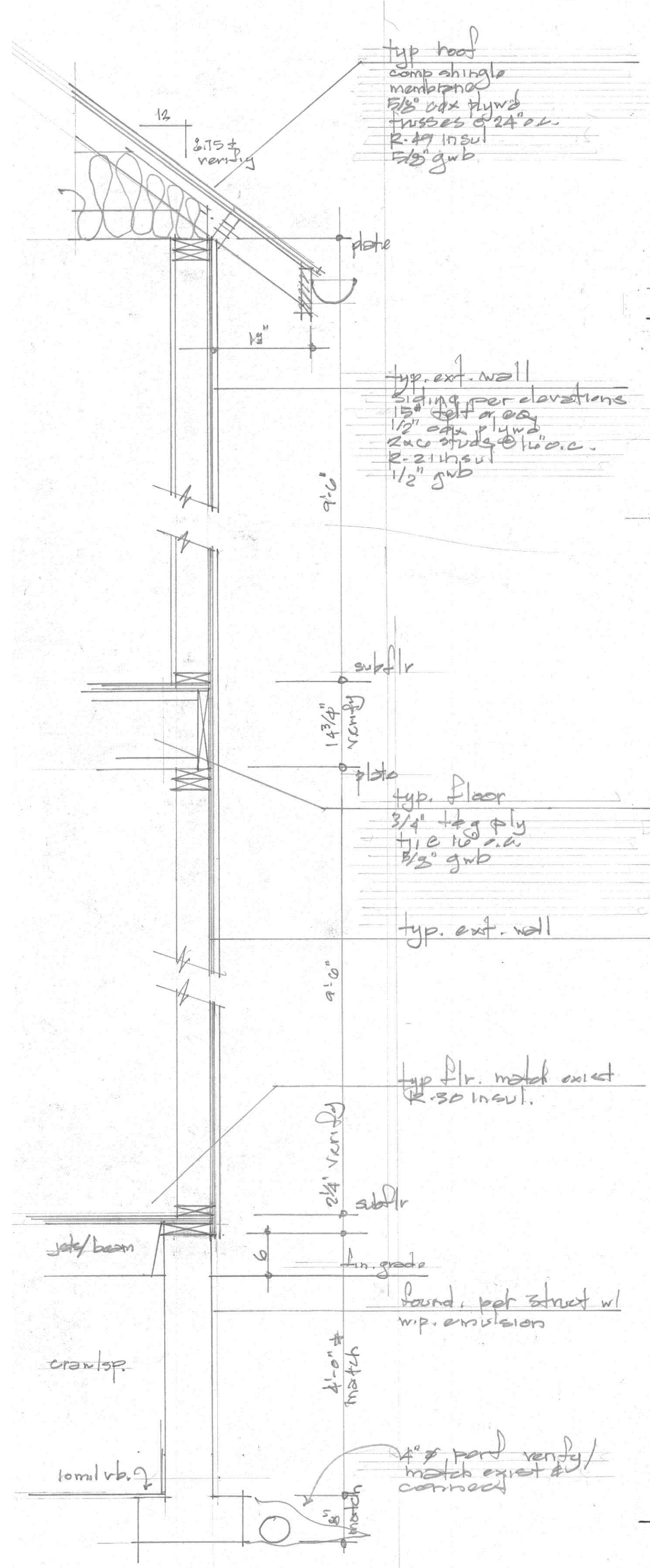
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 DRAWN:  
 HAVILAND CONSULTING  
 CHECKED:  
 RWF  
 REVISIONS:



FRONT ELEVATION  
Scale: 1/4" = 1'-0"

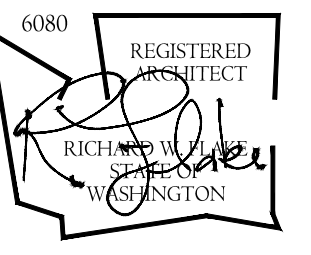


WALL SECTION  
Scale: 1/4" = 1'-0"



REAR ELEVATION  
Scale: 1/4" = 1'-0"

RF ARCHITECTURE  
PH: (253) 359-4039  
Richard@rfarchitecture.com  
7421 21st Ave E Bonney Lake, WA 98391



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RAQUEPAU RESIDENCE  
REMODEL & ADDITION  
9116 SEETH STREET  
MERCER ISLAND, WA 98040

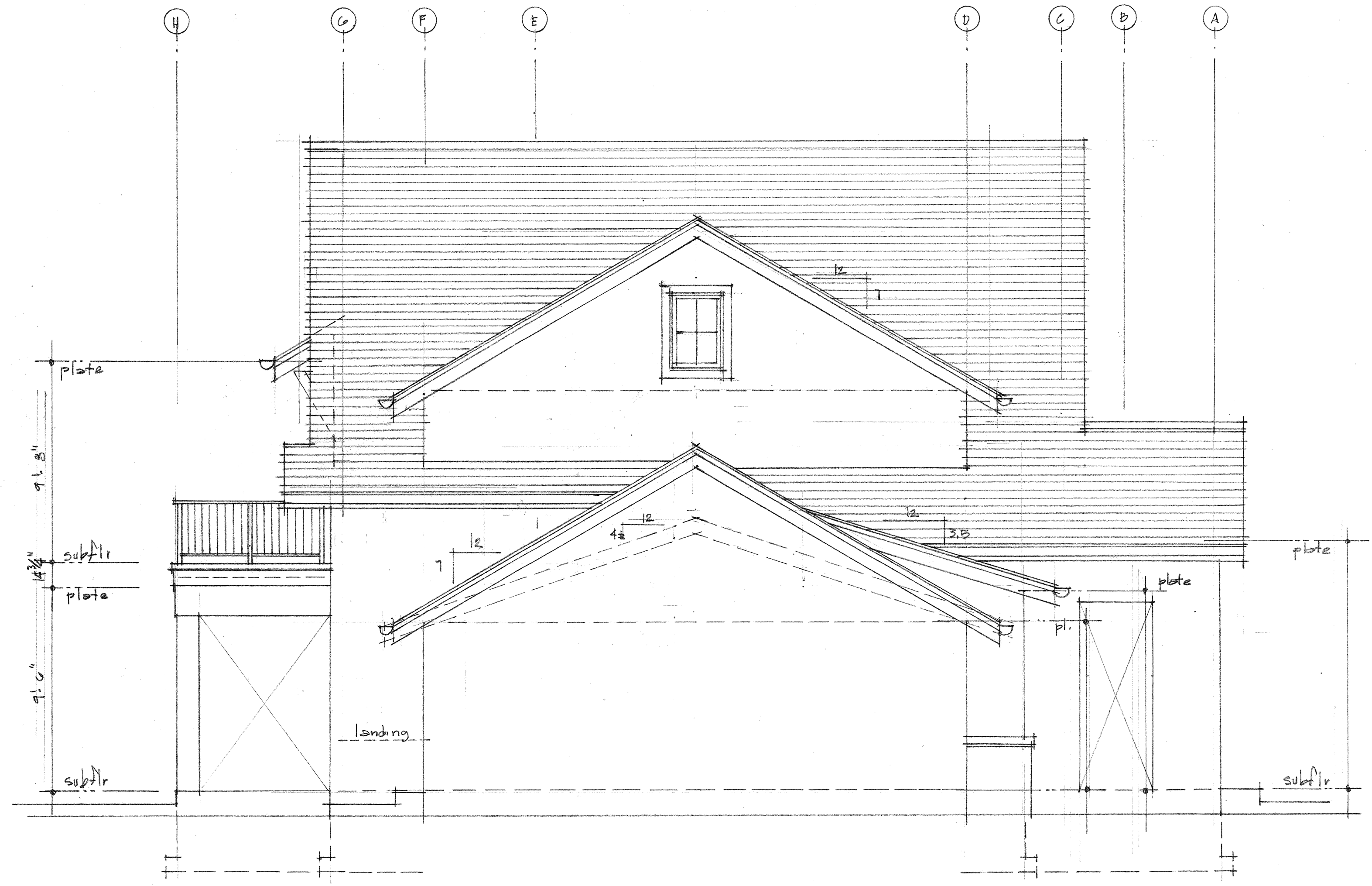
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CHECKED: RWF  
REVISIONS:

Aug 07, 2023

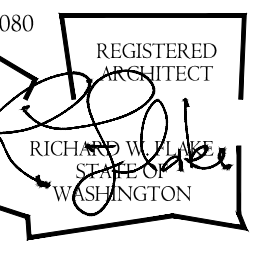
A-6.I



LEFT ELEVATION  
 scale: 1/4" = 1'-0"



RIGHT ELEVATION  
 scale: 1/4" = 1'-0"



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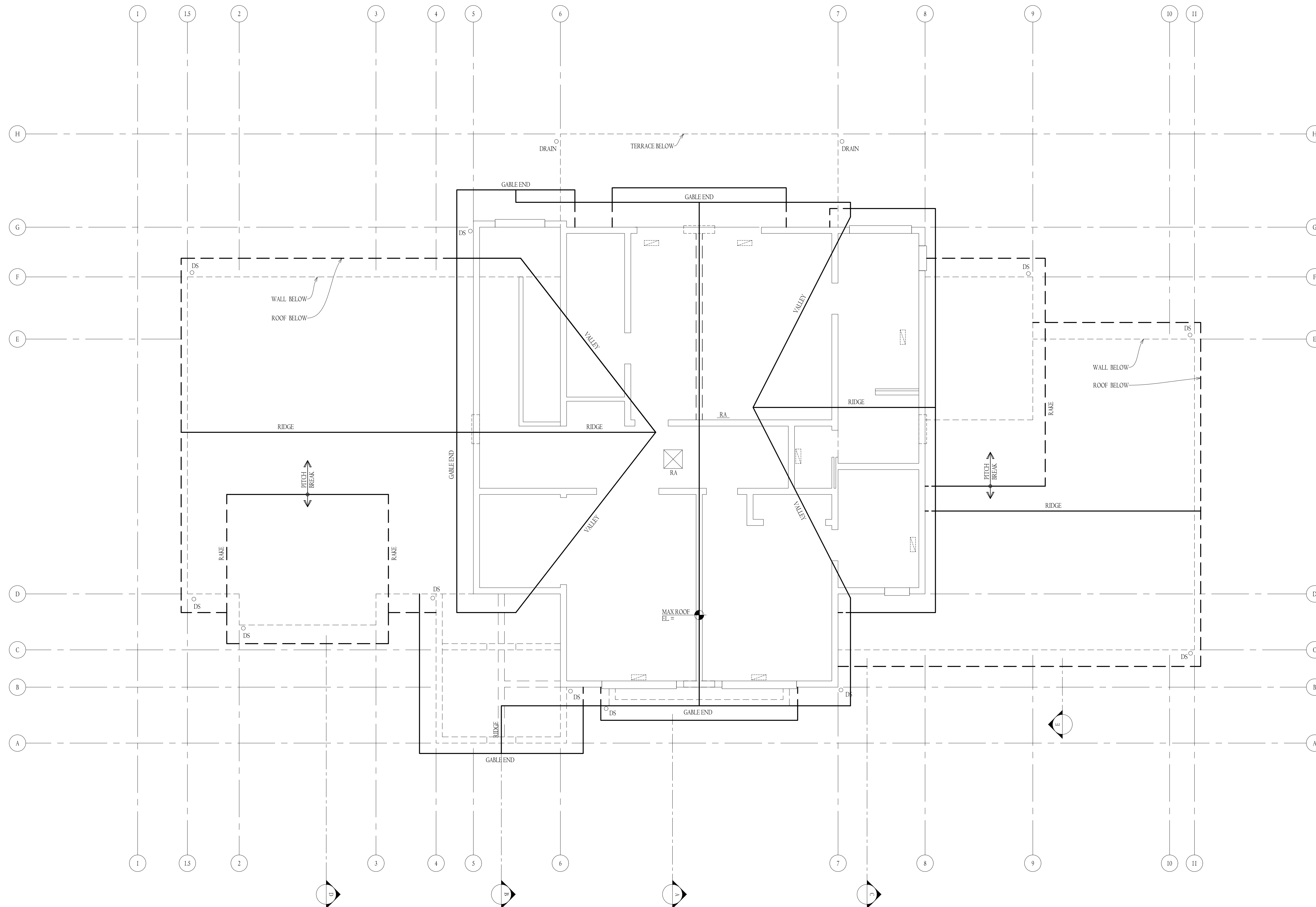
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RAQUEPAU RESIDENCE  
 R E M O D E L & A D D I T I O N  
 9 1 6 S E 5 8 T H M E R C E R I S L A N D , W A 9 8 0 4 0

DESIGN:  
 RWF  
 DRAWN:

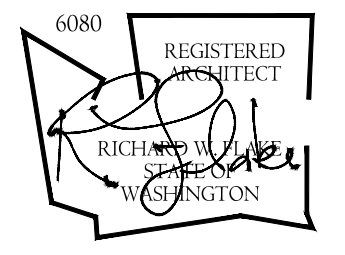


CHECKED:  
 RWF  
 REVISIONS:

R O O F / A T T I C P L A N

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



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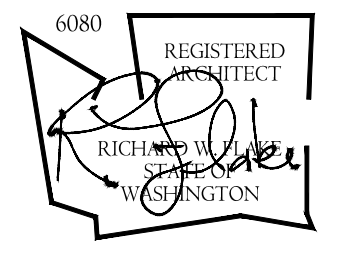
NO.	DATE	DESCRIPTION

ROOM FINISH SCHEDULE									
MARK	ROOM NAME	FLOOR FINISH		WALL FINISH				CEILING FINISH	REMARKS
		FLOOR	BASE	NORTH	EAST	SOUTH	WEST	CEILING	
101	PORCH/VAULTED								
102	FOYER								
103	POWDER								
104	KITCHEN								
105	STORAGE								
106	DINING								
107	GREAT ROOM								
108	LAUNDRY								
109	MUD/REC								
110	GARAGE								
111	STOOP								
112	PORCH								
113	OUTDOOR SPACE/LIVING								
114	HALL								
115	BATH								
116	BED 2								
117	BED 3								
118	CLOSET								
119	STAIR								
201	HALL								
202	PRIMARY BED								
203	VAULT								
204	BATH								
205	TOILET								
206	OFFICE								
207	EXER								
208	BED 4								
209	BATH								
210	TERRACE								

DOOR SCHEDULE										
MARK	SIZE	THICKNESS	TYPE	STYLE	DOOR FINISH	FRAME FINISH	MANUFACTURER	SERIES	U-VALUE	REMARKS
EXTERIOR DOORS:										
1	3 <sup>0</sup> x 8 <sup>0</sup>		ENTRY							2X6 JAMBS TYP
2	3 <sup>0</sup> x 8 <sup>0</sup>		1/2 LIGHT							
3	3 <sup>0</sup> x 8 <sup>0</sup>		1/2 LIGHT							
4	3 <sup>0</sup> x 8 <sup>0</sup>		STORE DOOR							
5	20 <sup>0</sup> x 8 <sup>0</sup>		MULTI-SLIDE							
6	6 <sup>0</sup> x 6 <sup>8</sup>		STORE DOOR							
19	10 <sup>0</sup> x 8 <sup>0</sup>		STORE DOOR							FIXED PANELS
INTERIOR DOORS:										
7	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
8	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
9	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
10	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
11	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
12	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
13	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
14	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
15	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
16	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
17	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
18	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
19	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
20	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
21	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
22	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
23	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
24	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
25	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
26	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
27	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
28	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							
29	X <sup>0</sup> / <sub>2</sub> x X <sup>0</sup> / <sub>2</sub>		XXX							

WINDOW SCHEDULE						
MARK	SIZE (WXH)	TYPE	MANUFACTURER	SERIES	U-VALUE	REMARKS
1	12 <sup>0</sup> x 5 <sup>0</sup>	VERT SLIDE				
2	2 <sup>0</sup> x 3 <sup>0</sup>	PIC				
3	2 <sup>0</sup> x 3 <sup>0</sup>	PIC				
4	2 <sup>0</sup> x 3 <sup>6</sup>	CSMT				
5	6 <sup>0</sup> x 5 <sup>6</sup>	V. SLIDE EGRESS				
6	3 <sup>0</sup> x 3 <sup>0</sup>	CSMT				
7	2 <sup>0</sup> x 3 <sup>6</sup>	CSMT				
8	4 <sup>0</sup> x 10 <sup>0</sup>	PIC T.GL				
9	5 <sup>0</sup> x 5 <sup>6</sup>	CSMT				
10	6 <sup>0</sup> x 3 <sup>6</sup>	SLIDER				
11	6 <sup>0</sup> x 5 <sup>6</sup>	V. SLIDER EGRESS				
12	6 <sup>0</sup> x 5 <sup>6</sup>	V. SLIDER EGRESS				
13	2 <sup>6</sup> x 4 <sup>0</sup>	PIC				
14	2 <sup>0</sup> x 3 <sup>0</sup>	CSMT				
15	(NOT USED)					
16	(NOT USED)					
17	(NOT USED)					
18	5 <sup>0</sup> x 5 <sup>0</sup>	CSMT T.GL				
18a	2 <sup>6</sup> x 5 <sup>0</sup>	CSMT T.GL				
19	2 <sup>6</sup> x 4 <sup>0</sup>	PIC				
20	(NOT USED)					
21	2 <sup>6</sup> x 4 <sup>0</sup>	PIC				
22	2 <sup>6</sup> x 4 <sup>0</sup>	PIC				

**R F A R C H I T E C T U R E**  
 P H : ( 2 5 3 ) 3 5 9 - 4 0 3 9  
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 7 4 2 1 2 1 4 t h A v e E B o m n e y L a k e , W A 9 8 3 9 1



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**R A Q U E P A U R E S I D E N C E**  
 R E M O D E L & A D D I T I O N  
 9 1 1 6 S E E 5 8 T H S T R E E T  
 M E R C E R I S L A N D , W A 9 8 0 4 0

DESIGN:  
 RWF



DRAWN:  
 RWF

CHECKED:  
 RWF  
 REVISIONS:  
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Aug 07, 2023

SECTION 19, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M.

# RAQUEPAU RESIDENCE REMODEL

## APPLICANT

JEREME RAQUEPAU  
9116 SE 58TH STREET  
MERCER ISLAND, WA 98040

## ARCHITECT

RF ARCHITECTURE  
7412 214TH AVENUE E  
BONNEY LAKE, WA 98391  
(253) 359-4039  
CONTACT: RICHARD FLAKE

## CIVIL ENGINEER

JMJ TEAM  
905 MAIN STREET  
SUITE 200  
SUMNER, WA 98390  
(206) 596-2020  
CONTACT: JUSTIN JONES, PE

## SURVEYOR

SITE SURVEYING INC.  
21923 NE 11TH STREET  
SAMMAMISH, WA 98074  
(425) 298-4412  
CONTACT: THOMAS WOLDENDORP, PLS

## SITE INFORMATION:

SITE ADDRESS: 9116 SE 58TH STREET MERCER ISLAND, WA 98040  
TAX PARCEL NUMBER(S): 228700-0120  
ZONING: R-9.6  
TOTAL PROJECT AREA: 0.280 ACRES

## VERTICAL DATUM & CONTOUR INTERVAL

ELEVATIONS SHOWN ON THIS DRAWING WERE DERIVED FROM GPS OBSERVATION USING THE WSRN.

DATUM - NAVD 88

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

SURVEY DATE: JANUARY 13TH, 2023

## BASIS OF BEARINGS

RECORD OF SURVEY BY TERRANE, RECORDED IN VOLUME 390 OF SURVEYS, PAGE 163, UNDER RECORDING NO. 20180830900020, RECORDS OF KING COUNTY, WASHINGTON.

## LEGAL DESCRIPTION

LOT 12 OF EL DORADO ESTATES, AS PER PLAT RECORDED IN VOLUME 62 OF PLATS, PAGE 7, RECORDS OF KING COUNTY AUDITOR;

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

## SERVICE PROVIDERS:

WATER: CITY OF MERCER ISLAND  
SEWER: CITY OF MERCER ISLAND  
POWER: PUGET SOUND ENERGY  
GAS: PUGET SOUND ENERGY

## VICINITY MAP



9116 SE 58th Street Mercer Island , WA 98040

## SHEET INDEX

Page #	Sheet #	Sheet Name
1	C-01	Cover Sheet
2	C-02	Existing Site Plan
3	C-03	Demolition & TESC Plan
4	C-04	Site & Grading Plan
5	C-05	Storm Plan
6	C-06	Details

Owner/Developer:

Jereme Raquepau  
9116 SE 58th Street  
Mercer Island, WA 98040

Architect:

RF Architecture  
Richard Flake  
7421 214th Avenue E  
Bonneylake, WA 98391  
(253) 359-4039

Engineer:



JMJ Team  
905 Main Street, Suite #200  
Sumner, WA 98390  
(206) 596-2020

Project:

Raquepau Residence

9116 Se 58th Street  
Mercer Island, WA 98040

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REV	DATE	DESCRIPTION
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SHEET TITLE:

Cover Sheet

PROJ. NO: 1565-008  
DATE: November 1, 2023

DRAWN BY: MO DESIGN BY: JJ

SHEET NUMBER:

C-01

DWG: 1 OF 6

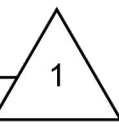
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### TREE PROTECTION NOTES

- Tree Protection Fence (TPF) to be 6 feet High Chainlink, wire mesh, or similar open rigid material (no plywood).
- TPF must be installed prior to demolition or ground disturbance.
- TPD to be kept in place for the duration of construction.
- No soil disturbance or activity allowed within fenced area; material storage/stockpiling, parking, excavation, dumping, or washing.
- If roots greater than 2 inches is found outside of fencing, protect by hand excavation.
- Air excavation and arborist direction on-site for demo of infrastructure within saved trees dripline during construction.



### LEGEND

- Existing Building to be Removed
- Existing Concrete to be Removed
- Landscaping to be Removed
- Sawcut Existing Concrete
- CLR. LIMIT
- Silt Fence
- Tree Protection Fence
- TBR
- To Be Removed

### TESC NOTES

- Contractor to install temporary erosion and sediment control measures as necessary to ensure stormwater leaving the site is free of settleable solids.
- Roads shall be cleaned thoroughly as needed to protect stormwater infrastructure and downstream water resources. Sediment shall be removed from roads by shoveling or pickup sweeping and be transported to a controlled sediment disposal area.
- Install Silt Fence as necessary per DOE BMP C233.
- Install straw bale barriers, wattles and other TESC measures as necessary.
- Exposed soils shall be watered as necessary to prevent dust from leaving the site.
- Contractor to mark clearing limits with lath and flagging.
- Concrete handling and equipment washing in accordance with DOE BMP C151.

### SOIL AMENDMENT NOTES

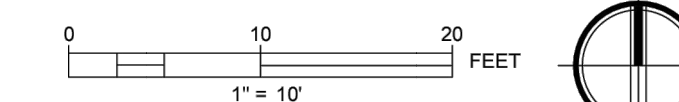
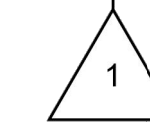
The lawn and landscape areas are required to provide Post-Construction Soil Quality and Depth in accordance with BMP T5.13.

#### POST-CONSTRUCTION SOIL MANAGEMENT

- Retain & Protect Native Vegetation and Soil
  - Identify Areas of the site that will not be disturbed construction. Fence areas to prevent impacts during construction.
- Loosen Compacted Subsoil
  - In Areas Compacted by Construction Traffic Scarify the top 4-inches of subsoil. Use a Cat-mounted Ripper, tractor-mounted disc, or tiller to mix the first lift of topsoil into the subsoil. Use the equipment listed to scarify soils to a depth of 12-inches before tilling in at least 8-inches of compost.
- Restore Soils that are Disturbed During Construction
  - Stockpile and reuse existing topsoil (amend if needed to meet 5% organic matter content for turf areas; 10% organic matter content for planting beds).
- Add Mulch to Planting Beds
  - Spread mulch (coarse bark or wood chips) in the spring or fall (after planting) to control weeds, reduce the need for irrigation and prevent erosion). Apply 1 to 2 inches of mulch on planting beds and around shallow-rooted annuals. Apply 2 to 4 inches of mulch around trees and woody perennials, but make sure to keep mulch 2-3 inches away from tree trunks.
- Protect Restored Soils from Erosion and Re-Compaction
  - Prevent runoff from roads or open slopes onto amended soil areas. Compost blankets are an approved erosion control Best Management Practice (BMP) that can be used during construction and then tilled into existing soil at the end of the construction process prior to planting. Once soils have been amended, vehicle traffic should be prohibited to prevent recompaction from occurring.

### DEMOLITION NOTES

- Landscaping to be Cleared & Grubbed: 1,055 SF
- Existing Concrete Pavement to be Removed: 1,675 SF
- Existing Building to be Removed: 235 SF
- Disturbed Area: 6,400 SF



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Owner/Developer:

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Architect:

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Bonneylake, WA 98391  
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Engineer:



JMJ Team  
905 Main Street, Suite #200  
Sumner, WA 98390  
(206) 596-2020

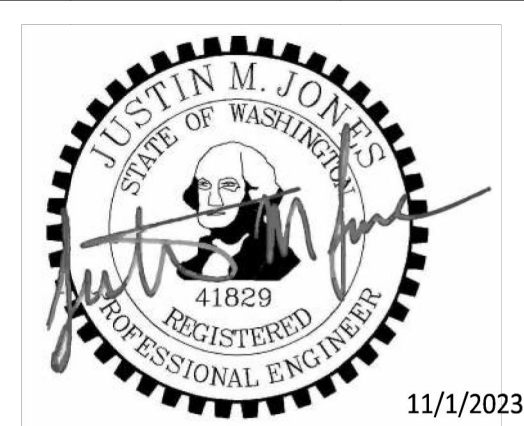
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1	11-1-23	Revised per City Comments

SHEET TITLE

TESC &  
Demo Plan

PROJ. NO. 1565-008

DATE: November 1, 2023

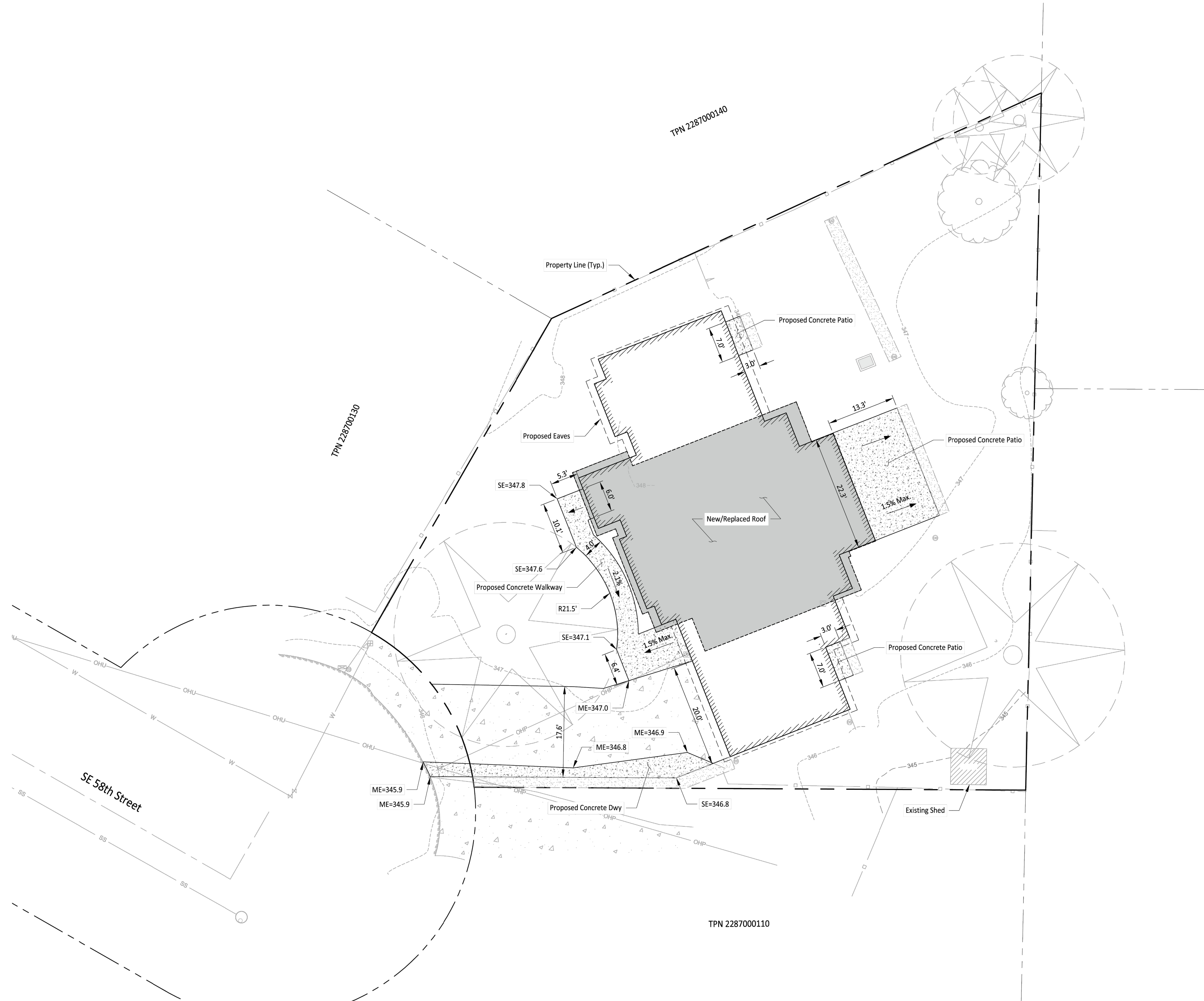
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C-03

DWG. 3 OF 6

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**LEGEND**

- Existing Concrete
- Proposed Concrete
- Proposed Gravel
- New/Replaced Roof Area
- Proposed Bldg. Extents
- Proposed Eaves
- SE Spot Elevation
- ME Match Existing Grade

**PROPOSED LOT COVERAGE**

- Site Area: 12,192 SF (0.28 AC)
- Total Impervious Coverage: 4,854 SF (39.8%)
  - Existing Remain: 2,167 SF
  - Roof: 1,378 SF
  - Concrete Pavement: 789 SF
- New/Replaced: 2,687 SF
  - Roof: 1,728 SF
  - Concrete Pavement: 704 SF
  - Gravel: 255 SF
- Total Pervious Coverage: 7,338 SF (60.2%)
- Net Impervious: -406 SF

Owner/Developer:

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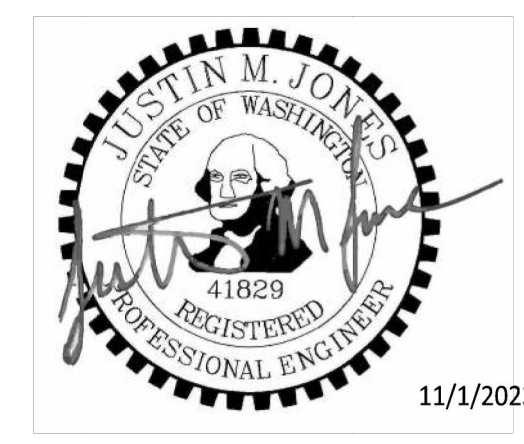
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**Site & Grading Plan**

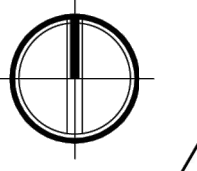
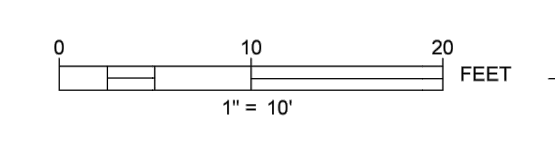
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DATE: November 1, 2023

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SHEET NUMBER: **C-04**

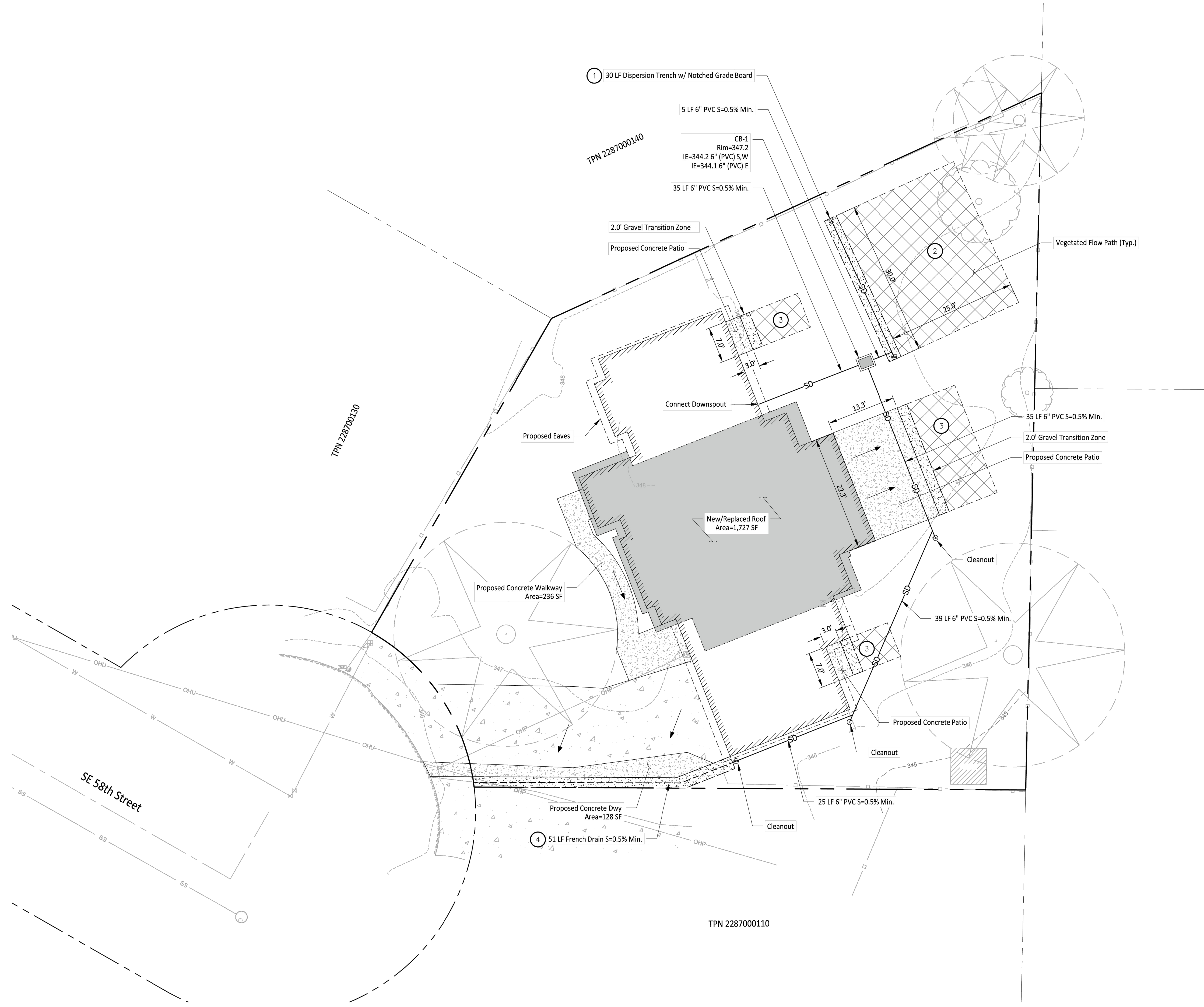
DWG: 4 OF 6



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**LEGEND**

- Existing Concrete
- Proposed Concrete
- Proposed Gravel
- New/Replaced Roof Area
- Vegetated Flow Path
- Proposed Bldg. Extents
- Proposed Eaves
- 6" PVC Storm Line
- Cleanout
- Type 1 Catch Basin, Solid Lid
- Flow Path

**CONSTRUCTION NOTES**

- 1 Dispersion Trench to be constructed per DOE Figure V-4.5. See Detail on Sheet C-06.
- 2 Dispersion Trench Vegetated Flow Path to be a minimum of 25 LF in length.
- 3 Sheet Flow Vegetated Flow Path to be a minimum of 10 LF in length.
- 4 Install French Drain per Section B on Sheet C-06.
- 5 Storm Pipes to be SDR 35 PVC piping.
- 6 Storm Pipes to maintain a minimum cover of 1.5' from finished grade surface.

Owner/Developer:

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Engineer:



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Project:

Raquepau Residence

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**Storm Plan**

PROJ. NO: 1565-008

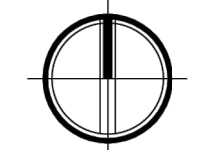
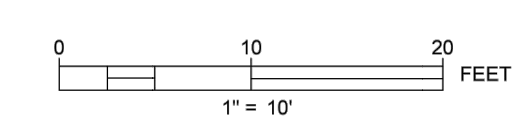
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**C-05**

DWG: 5 OF 6



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**BMP C233: Silt Fence**

**Purpose**  
Use of a silt fence reduces the transport of coarse sediment from a construction site by providing a temporary physical barrier to sediment and reducing the runoff velocities of overland flow. See Figure 4.2.12 for details on silt fence construction.

**Conditions of Use**  
Silt fence may be used downslope of all disturbed areas.

- Silt fence shall prevent soil carried by runoff water from going beneath, through, or over the top of the silt fence, but shall allow the water to pass through the fence.
- Silt fence is not intended to treat concentrated flows, nor is it intended to treat substantial amounts of overland flow. Convey any concentrated flows through the drainage system to a sediment pond.
- Do not construct silt fences in streams or use in V-shaped ditches. Silt fences do not provide an adequate method of silt control for anything deeper than sheet or overland flow.

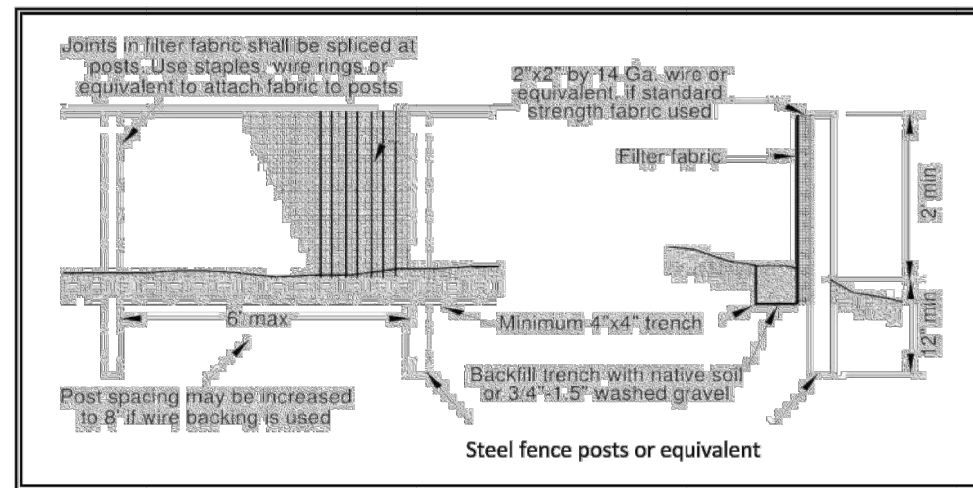


Figure 4.2.12 – Silt Fence

**Design and Installation Specifications**

- Use in combination with sediment basins or other BMPs.
- Maximum slope steepness (normal (perpendicular) to fence line) 1H:1V.
- Maximum sheet or overland flow path length to the fence of 100 feet.
- Do not allow flows greater than 0.5 cfs.

- The geotextile used shall meet the following standards. All geotextile properties listed below are minimum average roll values (i.e., the test result for any sampled roll in a lot shall meet or exceed the values shown in Table 4.2.3):

Table 4.2.3 Geotextile Standards	
Polymeric Mesh AOS (ASTM D4751)	0.60 mm maximum for silt film woven (#30 sieve), 0.30 mm maximum for all other geotextile types (#50 sieve), 0.15 mm minimum for all fabric types (#100 sieve).
Water Permittivity (ASTM D4491)	0.02 sec <sup>2</sup> minimum
Grab Tensile Strength (ASTM D4652)	180 lbs. Minimum for extra strength fabric. 100 lbs minimum for standard strength fabric.
Grab Tensile Strength (ASTM D4652)	30% maximum
Ultraviolet Resistance (ASTM D4355)	70% minimum

- Support standard strength fabrics with wire mesh, chicken wire, 2-inch x 2-inch wire, safety fence, or jute mesh to increase the strength of the fabric. Silt fence materials are available that have synthetic mesh backing attached.
- Filter fabric material shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of six months of expected useful construction life at a temperature range of 0°F. to 120°F.
- One-hundred percent biodegradable silt fence is available that is strong, long lasting, and can be left in place after the project is completed, if permitted by local regulations.
- Refer to Figure 4.2.12 for standard silt fence details. Include the following standard Notes for silt fence on construction plans and specifications:
  - The contractor shall install and maintain temporary silt fences at the locations shown in the Plans.
  - Construct silt fences in areas of clearing, grading, or drainage prior to starting those activities.
  - The silt fence shall have a 2-foot min. and a 2 1/4-foot max. height above the original ground surface.
  - The filter fabric shall be sewn together at the point of manufacture to form filter fabric lengths as required. Locate all sewn seams at support posts. Alternatively, two sections of silt fence can be overlapped, provided the Contractor can demonstrate, to the satisfaction of the Engineer, that the

overlap is long enough and that the adjacent fence sections are close enough together to prevent silt laden water from escaping through the fence at the overlap.

- Attach the filter fabric on the up-slope side of the posts and secure with staples, wire, or in accordance with the manufacturer's recommendations. Attach the filter fabric to the posts in a manner that reduces the potential for tearing.
- Support the filter fabric with wire or plastic mesh, dependent on the properties of the geotextile selected for use. If wire or plastic mesh is used, fasten the mesh securely to the up-slope side of the posts with the filter fabric up-slope of the mesh.
- Mesh support, if used, shall consist of steel wire with a maximum mesh spacing of 2-inches, or a prefabricated polymeric mesh. The strength of the wire or polymeric mesh shall be equivalent to or greater than 180 lbs. grab tensile strength. The polymeric mesh must be as resistant to the same level of ultraviolet radiation as the filter fabric it supports.
- Bury the bottom of the filter fabric 4-inches min. below the ground surface. Backfill and tamp soil in place over the buried portion of the filter fabric, so that no flow can pass beneath the fence and scouring cannot occur. When wire or polymeric back-up support mesh is used, the wire or polymeric mesh shall extend into the ground 3-inches min.
- Drive or place the fence posts into the ground 18-inches min. A 12-inch min. depth is allowed if topsoil or other soft subgrade soil is not present and 18-inches cannot be reached. Increase fence post min. depths by 6 inches if the fence is located on slopes of 3H:1V or steeper and the slope is perpendicular to the fence. If required post depths cannot be obtained, the posts shall be adequately secured by bracing or guying to prevent overturning of the fence due to sediment loading.
- Use steel or equivalent posts. The spacing of the support posts shall be a maximum of 6-feet. Posts shall consist of either:
  - No. 6 steel rebar or larger.
  - ASTM A 120 steel pipe with a minimum diameter of 1-inch.
  - U, T, L, or C shape steel posts with a minimum weight of 1.35 lbs./ft.
  - Other steel posts having equivalent strength and bending resistance to the post sizes listed above.
- Locate silt fences on contour as much as possible, except at the ends of the fence, where the fence shall be turned uphill such that the silt fence captures the runoff water and prevents water from flowing around the end of the fence.

- If the fence must cross contours, with the exception of the ends of the fence, place gravel check dams perpendicular to the back of the fence to minimize concentrated flow and erosion. The slope of the fence line where contours must be crossed shall not be steeper than 3H:1V.

- Gravel check dams shall be approximately 1-foot deep at the back of the fence. Gravel check dams shall be continued perpendicular to the fence at the same elevation until the top of the check dam intercepts the ground surface behind the fence.
- Gravel check dams shall consist of crushed surfacing base course, gravel backfill for walls, or shoulder ballast. Gravel check dams shall be located every 10 feet along the fence where the fence must cross contours.

- Refer to Figure 4.2.13 for slicing method details. Silt fence installation using the slicing method specifications:
  - The base of both end posts must be at least 2- to 4-inches above the top of the filter fabric on the middle posts for ditch checks to mark base points before installation.
  - Install posts 3- to 4-feet apart in critical retention areas and 6- to 7- feet apart in standard applications.
  - Install posts 24-inches deep on the downstream side of the silt fence, and as close as possible to the filter fabric, enabling posts to support the filter fabric from upstream water pressure.
  - Install posts with the nipples facing away from the filter fabric.
  - Attach the filter fabric to each post with three ties, all spaced within the top 8-inches of the filter fabric. Attach each tie diagonally 45 degrees through the filter fabric, with each puncture at least 1-inch vertically apart. Each tie should be positioned to hang on a post nipple when tightening to prevent sagging.
  - Wrap approximately 6-inches of fabric around the end posts and secure with 3 ties.
  - No more than 24-inches of a 36-inch filter fabric is allowed above ground level.

Compact the soil immediately next to the filter fabric with the front wheel of the tractor, skid steer, or roller exerting at least 60 pounds per square inch. Compact the upstream side first and then each side twice for a total of four trips. Check and correct the silt fence installation for any deviation before compaction. Use a flat-bladed shovel to tuck fabric deeper into the ground if necessary.

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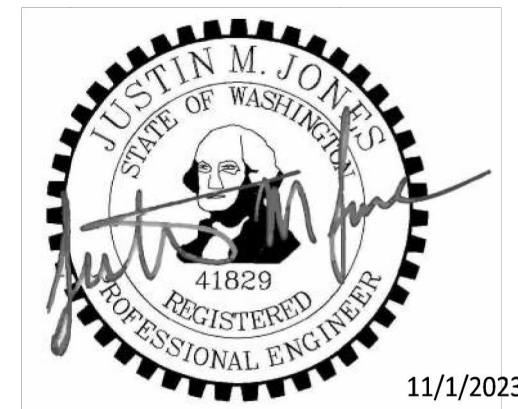
Project:

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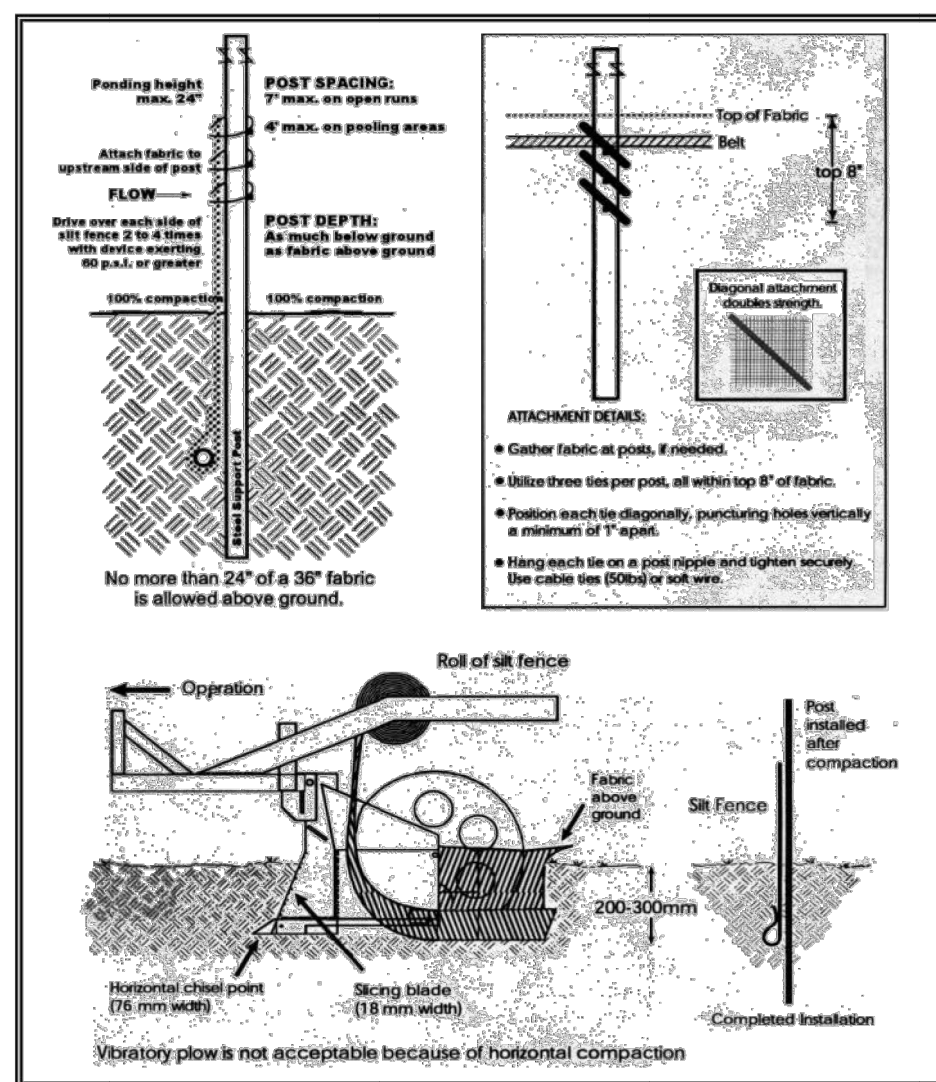
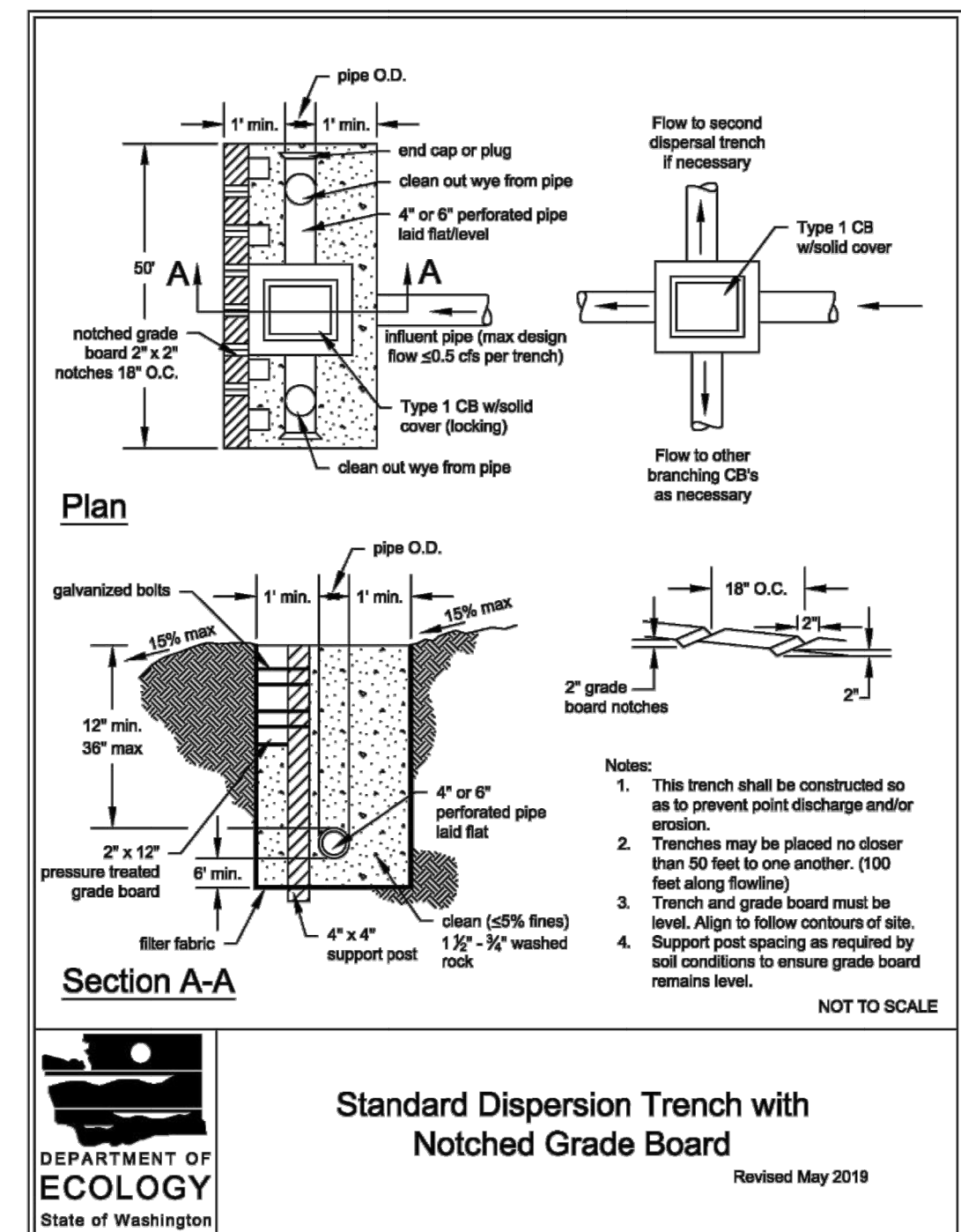


Figure 4.2.13 – Silt Fence Installation by Slicing Method

**Maintenance Standards**

- Repair any damage immediately.
- Intercept and convey all evident concentrated flows uphill of the silt fence to a sediment pond.
- Check the uphill side of the fence for signs of the fence clogging and acting as a barrier to flow and then causing channelization of flows parallel to the fence. If this occurs, replace the fence or remove the trapped sediment.
- Remove sediment deposits when the deposit reaches approximately one-third the height of the silt fence, or install a second silt fence.
- Replace filter fabric that has deteriorated due to ultraviolet breakdown.

Figure V-4.5: Standard Dispersion Trench with Notched Grade Board

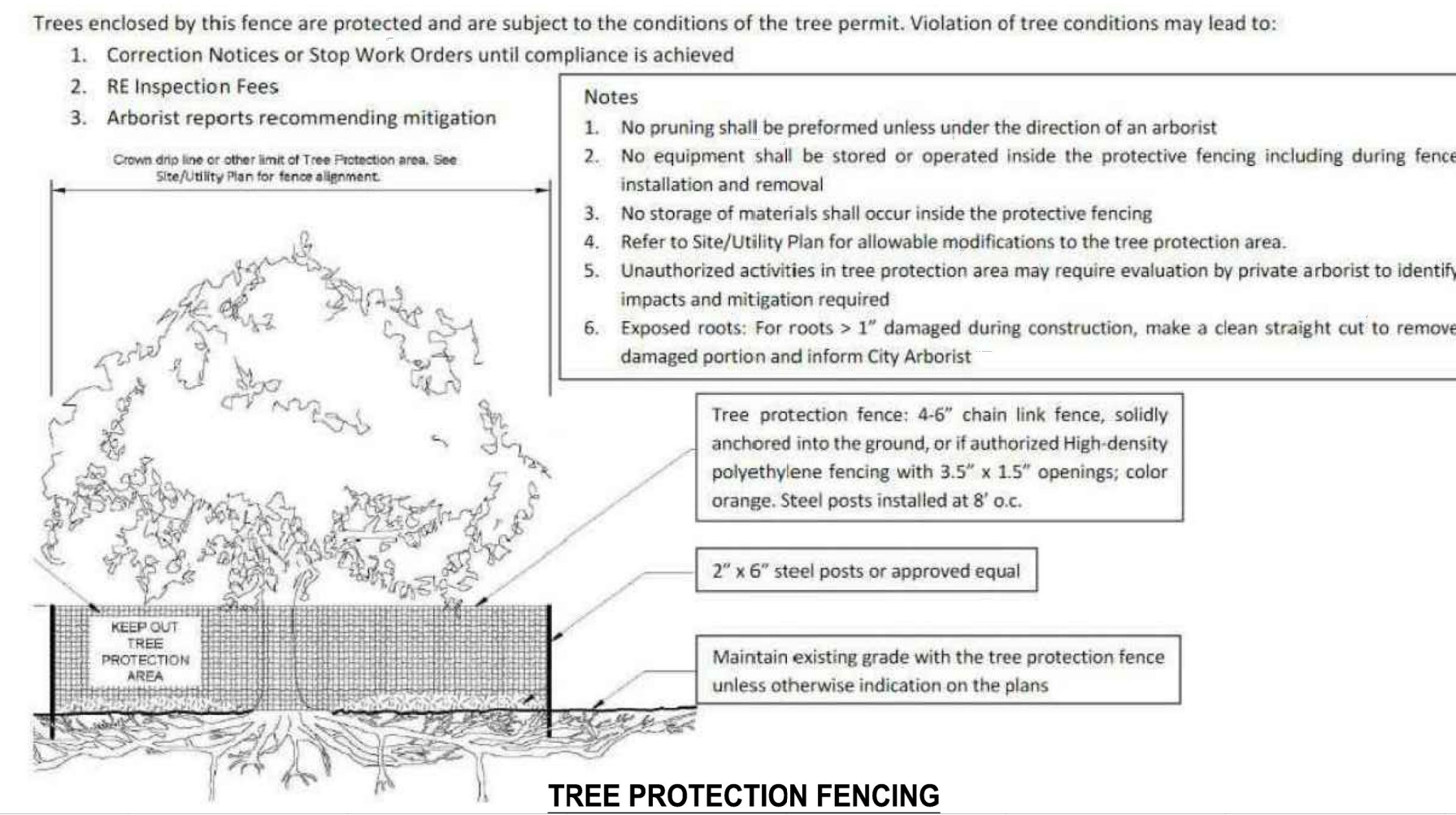


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Volume V - Chapter 4 - Page 716

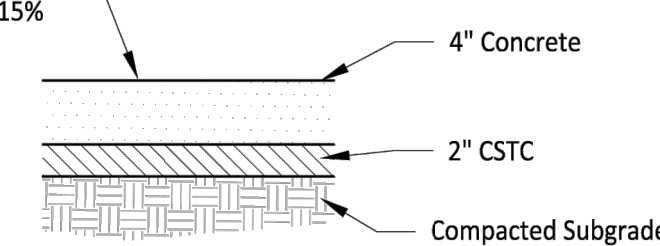
**TREE PROTECTION AREA (TPZ)**

**KEEP OUT!**

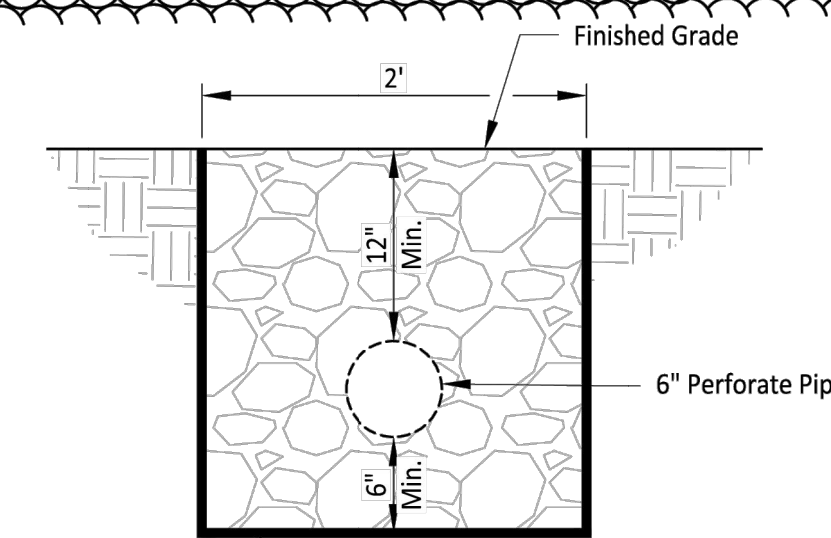
**DO NOT REMOVE OR ADJUST THE APPROVED LOCATION OF THIS TREE PROTECTION AREA**



Raked Surface Required on Slopes Greater than 15%



CONCRETE PAVEMENT SECTION  
1" = 1"



FRENCH DRAIN SECTION  
1" = 1"

# GENERAL STRUCTURAL NOTES:

## PROJECT SPECIFIC DESIGN CRITERIA

Wind Design Data  
 Wind Design Speed,  $V_w = 110$  MPH,  $V_{asd} = 85$  MPH  
 Wind Exposure = 9  
 Wind Importance Factor,  $I_w = 1.0$   
 Internal Pressure Coefficient = +/- 0.18  
 $K_tz = 1.00$   
 $K_d = 0.85$

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Seismic Design Data  
 Importance factor = 1.0  
 $S_s = 1.47g$ ,  $S_1 = 0.57g$   
 Site Class = D  
 $SDS = 1.18g$ ,  $SD1 = 0.65g$   
 $SDC = D$   
 Seismic System = 15. Light-frame (wood) walls sheathed with wood structural panels rated for shear resistance  
 Design Base Shear = 15.00 kips  
 $C_s = 0.161$   
 $R = 6.5$   
 Analysis procedure: ASCE 11.4, 11.5 & 12.8

**Snow Loads**  
 Flat-roof snow load,  $p_f = 25.0$  psf  
 Snow exposure factor,  $C_e = 1.00$   
 Snow load important factor,  $I_s = 1.00$   
 Thermal factor,  $C_t = 1.00$

**Gravity Loads\***  
 Roof Dead Load = 15 psf + 5 psf (SOLAR PANELS)  
 Roof Live Load = 25 psf  
 Floor Live Load (Office) = 50 psf  
 Floor Live Load (Residential) = 40 psf, Balcony & Roof Decks = 60 psf  
 Floor live Load (Corridor) = 100 psf  
 Partition Loads = 10 psf (residential)  
 Partition Loads = 20 psf (office)  
 Floor Dead Loads = 12 psf (residential)  
 At rest earth pressure = 60 pcf  
 \*As Applicable

## GENERAL

- ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE 2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).
- THE ARCHITECT/ENGINEER (ARCH/ENGR) IS NOT RESPONSIBLE FOR THE LOCATION OF PROPERTY LINES AND/OR EASEMENT, SOIL CONDITIONS, MECHANICAL AND ELECTRICAL WORK, AND THE PRESENCE OF UTILITIES NOT REPORTED TO THE ARCH/ENGR IN WRITING BY THE OWNER.
- THE ENGINEER IS NOT RESPONSIBLE FOR FIELD REVIEW OF CONSTRUCTION UNLESS SPECIFICALLY RETAINED FOR THAT PURPOSE.
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. CONTRACTOR SHALL COMPARE THE DRAWINGS AND NOTIFY THE ARCH/ENGR OF ANY DISCREPANCIES PRIOR TO COMMENCING WITH THE WORK.
- CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM HIS WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES OF THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
- CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
- DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED, BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED. SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.
- ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERRECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE, AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

## GEOTECHNICAL

**11. GEOTECHNICAL FOUNDATION NOTES:** SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH RECOMMENDATIONS GIVEN IN THE SOILS REPORT OR AS DIRECTED BY THE SOILS ENGINEER. FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH (CONTROLLED, COMPACTED STRUCTURAL FILL OR BOTH) AT LEAST 18" BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS (OR IN DETAILS) ARE MINIMUM AND FOR GUIDANCE ONLY; THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD WORKING WITH THE TESTING LAB AND SOILS ENGINEER. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE SOILS REPORT.

IN THE ABSENCE OF A SOILS REPORT THE FOLLOWING VALUES ARE USED:

ALLOWABLE SOIL PRESSURE	2,000 PSF
LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED)	55 PCF/35 PCF
LATERAL EARTH PRESSURE (SEISMIC)	8H (ULTIMATE LOAD)
PASSIVE EARTH PRESSURE (INCLUDES FACTOR OF SAFETY = 1.5)	350 PCF
COEFFICIENT OF FRICTION (INCLUDES FACTOR OF SAFETY = 1.5)	0.35

SOILS REPORT REFERENCE: (N/A)

## CONCRETE

**12. CONCRETE** SHALL BE MIXED, PROPORTIONED, CONVEYED, AND PLACED IN ACCORDANCE WITH ACI 318-14 AND ACI 301-10. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH ( $f'_c$ ) OF 3000 PSI, SHALL CONTAIN NO LESS THAN 5-1/2 SACKS OF CEMENT, HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.45, AND A SLUMP OF 5 INCHES OR LESS. CONCRETE HAS BEEN DESIGNED BASED ON A CONCRETE STRENGTH ( $f'_c$ ) OF 2500 PSI PER SEATTLE BUILDING CODE SECTION 1705.3 EXCEPTION 2.3 TO AVOID SPECIAL INSPECTIONS AND MATERIAL TESTING.

**13. PERFORMANCE MIX DESIGNS** SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE PERFORMANCE MIX DESIGN SHALL INCLUDE THE AMOUNTS OF CEMENT, FINE AND COARSE AGGREGATE (3/4" MAXIMUM), WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, SLUMP, TARGET CONCRETE STRENGTH. SUBSTANTIATING STRENGTH DATA CONFORMING TO CURRENT ACI AND ASTM STANDARDS SHALL BE SUBMITTED WITH THE PERFORMANCE MIX DESIGN. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE PAID BY THE GENERAL CONTRACTOR. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

**14. ALL CONCRETE WITH SURFACES** EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494M, AND C618. UNLESS OTHERWISE NOTED THE TOTAL AIR CONTENT SHALL BE 5%. AIR CONTENT SHALL BE SAMPLED IN ACCORDANCE WITH ASTM C172 ABD AIR CONTENT MEASURED IN ACCORDANCE WITH ASTM C231 OR C173.

**15. REINFORCING STEEL** SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENTS S1), GRADE 60,  $F_y = 60,000$  PSI. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185

**16. DETAILING OF REINFORCING STEEL** (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI SP-66-04 AND ACI 318-14 CHAPTER 25. UNLESS OTHERWISE NOTED LAP REINFORCEMENT A MINIMUM OF 48 X BAR DIAMETER AND EMBED STANDARD 90 DEGREE HOOKS A MINIMUM OF 6-INCHES. LAP SPLICES SHALL BE STAGGERED SUCH THAT A MAXIMUM OF 50% OF THE TOTAL REINFORCEMENT IS SPACED AT ANY ONE LOCATION. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS.

LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. FIELD BENDING OF GRADE 60 REINFORCEMENT SHALL NOT BE ALLOWED.

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

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
ALL OTHER SURFACES	1 1/2"

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

**19. CAST-IN-PLACE CONCRETE:** SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES.

## WOOD

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

<b>JOISTS:</b> (2X, 3X, AND 4X MEMBERS)	HEM-FIR NO. 2 MINIMUM BASIC DESIGN STRESS, $F_b = 850$ PSI
<b>BEAM AND STRINGERS:</b> (6 X AND LARGER MEMBERS)	DOUGLAS FIR LARCH NO. 1 MINIMUM BASIC DESIGN STRESS, $F_b = 1,350$ PSI
<b>STUDS PLATES &amp; MISCELLANEOUS LIGHT FRAMING</b>	DOUGLAS FIR LARCH OR HEM-FIR NO. 2, MINIMUM BASIC DESIGN STRESS $F_b = 850$ PSI, $F_c = 1,300$ PSI

**21. GLUED LAMINATED MEMBERS** SHALL BE FABRICATED AND IDENTIFIED AS REQUIRED BY ASTM D3737 AND A.I.T.C. A190.1. EACH MEMBER SHALL BEAR AN A.I.T.C. IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN A.I.T.C. CERTIFICATE OF CONFORMANCE. IN ADDITION ALL GLULAMS SHALL CONFORM TO APA PERFORMANCE STANDARD PRG-305. ALL SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V4,  $F_b = 2,400$  PSI,  $F_y = 240$  PSI, E = 1,800,000 PSI. ALL CANTILEVERED BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V8,  $F_b = 2,400$  PSI,  $F_y = 240$  PSI, E = 1,800,000 PSI. UNLESS OTHERWISE NOTED CAMBER ALL GLULAM BEAMS TO 2,000 FOOT RADIUS. WHERE REQUIRED BEAMS AND COLUMNS SHALL BE PRESSURE TREATED AFTER MANUFACTURE IN ACCORDANCE WITH AMERICAN WOOD-PRESERVATIVES ASSOCIATION STANDARD U1.

**22. PARALLEL STRAND LUMBER (PSL):** EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, PRODUCT DESIGNATION OR TYPE, THE PRODUCTION DATE, SPECIES OR SPECIES GROUP DESIGNATION, AND THE QUALITY CONTROL AGENCY. MEMBERS SHALL BE GLUED WITH A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER. STRUCTURAL CAPACITIES SHALL BE ESTABLISHED IN ACCORDANCE WITH ASTM D5456 AND PRODUCT SHALL HAVE AN APPROVED I.C.C.-E.S. EVALUATION REPORT. MEMBERS SHALL BE TRANSPORTED AND STORED PER MANUFACTURERS RECOMMENDATIONS AND SHALL NOT BE EXPOSED TO PROLONGED MOISTURE. MINIMUM REQUIRED DESIGN PROPERTIES:  $F_b = 2900$  PSI, E = 2200,000 PSI,  $F_v = 290$  PSI.

DESIGN SHOWN ON PLANS IS BASED ON LUMBER MANUFACTURED BY THE WEYERHAEUSER. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE JOIST HANGERS AND OTHER HARDWARE MAY BE SUBSTITUTED FOR ITEMS SHOWN PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH MEMBERS PROVIDED.

## WOOD CONTINUED

**23. LAMINATED STRAND LUMBER (LSL):** EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, PRODUCT DESIGNATION OR TYPE, THE PRODUCTION DATE, SPECIES OR SPECIES GROUP DESIGNATION, AND THE QUALITY CONTROL AGENCY. MEMBERS SHALL BE GLUED WITH A WATERPROOF ADHESIVE MEETING THE REQUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER. STRUCTURAL CAPACITIES SHALL BE ESTABLISHED IN ACCORDANCE WITH ASTM D5456 AND PRODUCT SHALL HAVE AN APPROVED I.C.C.-E.S. EVALUATION REPORT. MEMBERS SHALL BE TRANSPORTED AND STORED PER MANUFACTURERS RECOMMENDATIONS AND SHALL NOT BE EXPOSED TO PROLONGED MOISTURE. MINIMUM REQUIRED DESIGN PROPERTIES:  $F_b = 2325$  PSI,  $F_v = 310$  PSI, E = 1,550,000 PSI.

LSL RIM JOISTS SHALL CONFORM TO ANSI/APA PRR 410 AND SHALL BE MARKED IN ACCORDANCE WITH THE STANDARD.

DESIGN SHOWN ON PLANS IS BASED ON LUMBER MANUFACTURED BY WEYERHAEUSER. ALTERNATE MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE JOIST HANGERS AND OTHER HARDWARE MAY BE SUBSTITUTED FOR ITEMS SHOWN PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH MEMBERS PROVIDED.

**24. PREFABRICATED PLYWOOD WEB JOIST** DESIGN SHOWN ON PLANS IS BASED ON JOIST MANUFACTURED BY THE WEYERHAEUSER. ALTERNATE PLYWOOD WEB JOIST MANUFACTURERS MAY BE USED SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND STRUCTURAL ENGINEER. ALTERNATE JOIST HANGERS AND OTHER HARDWARE MAY BE SUBSTITUTED FOR ITEMS SHOWN PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. ALL JOIST HANGERS AND OTHER HARDWARE SHALL BE COMPATIBLE IN SIZE WITH PLYWOOD WEB JOIST PROVIDED.

**30. PLYWOOD SHEATHING** SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, EXTERIOR GLUE IN CONFORMANCE WITH DOC PS 1-09 OR PS 2-10 AND AMERICAN PLYWOOD ASSOCIATION PERFORMANCE STANDARD PRP-108. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND PANEL INDEX MAY BE USED IN LIEU OF PLYWOOD. SEE PLANS FOR THICKNESS, PANEL IDENTIFICATION INDEX AND NAILING REQUIREMENTS. EACH PANEL SHALL BE IDENTIFIED FOR GRADE AND GLUE TYPE BY THE TRADEMARKS OF AN APPROVED TESTING AND GRADING AGENCY.

**31. ALL WOOD PLATES** IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE, PROVIDE 2 LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER BETWEEN UNTREATED LEDGERS, BLOCKING, ETC. AND CONCRETE OR MASONRY.

PRESSURE TREATED LUMBER SHALL COMPLY WITH THE AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U1, COMMODITY SPECIFICATION A. ALL TREATED LUMBER SHALL BEAR THE QUALITY MARK OF AN ACCREDITED INSPECTION AGENCY. THE QUALITY MARK SHALL INCLUDE:

- IDENTIFICATION OF TREATING MANUFACTURER
- TYPE OF PRESERVATIVE USED
- MINIMUM PRESERVATIVE RETENTION (PCF)
- END USE FOR WHICH THE PRODUCT IS TREATED
- IDENTITY OF THE ACCREDITED INSPECTION AGENCY
- STANDARD TO WHICH THE PRODUCT IS TREATED

**32. TIMBER CONNECTORS** CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-C-2019. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER. SHIMS, WHERE REQUIRED, SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED.

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

UNLESS NOTED OTHERWISE, ALL NAILS SHALL BE COMMON AND MAXIMUM NUMBER OF NAILS AS SPECIFIED BY THE MANUFACTURER SHALL BE PROVIDED.

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

ALL CONNECTIONS IN CONTACT WITH PRESERVATIVE-TREATED OR FIRE-RETARDANT-TREATED WOOD, SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS STEEL. HOT DIPPED GALVANIZED FASTENERS SHOULD CONFORM TO ASTM STANDARD 153, AND HOT DIPPED GALVANIZED CONNECTORS SHOULD CONFORM TO ASTM STANDARD A653 (CLASS G-185). STAINLESS STEEL FASTENERS AND CONNECTORS SHOULD BE TYPE 304 OR 316. NOTE: ELECTROPLATED GALVANIZED FASTENERS AND CONNECTORS ARE NOT TO BE USED WITH PRESSURE TREATED WOOD. SIMPSON PRODUCT FINISHES CORRESPONDING TO THE ABOVE REQUIREMENTS ARE ZMAX (HOT DIPPED GALVANIZED) AND S3T300 (STAINLESS STEEL). STAINLESS STEEL HARDWARE AND FASTENERS SHALL NOT BE COMBINED WITH UNTREATED OR GALVANIZED MATERIAL.

**33. WOOD FASTENERS:**

- NAIL SIZES** SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

SIZE	LENGTH	DIAMETER
6d	2"	0.113"
8d	2-1/2"	0.131"
10d	3"	0.148"
12d	3-1/4"	0.148"
16d	3-1/2"	0.162"

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

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

## WOOD CONTINUED

**34. WOOD FRAMING NOTES –** THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

- ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE SEATTLE BUILDING CODE. MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO TABLE 2304.10.1 OF THE SEATTLE BUILDING CODE. UNLESS NOTED OTHERWISE, ALL NAILS SHALL BE AS SPECIFIED ABOVE. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG SCREWS BEARING ON WOOD. INSTALLATION OF BOLTS AND LAG SCREWS SHALL CONFORM TO SECTIONS 12.1.3 AND 12.1.4 OF THE 2015 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. NATURALLY DURABLE OR PRESSURE TREATED WOOD SHALL BE PROVIDED WHERE REQUIRED BY SECTION 2304.12 OF THE SEATTLE BUILDING CODE.

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

STUDS MAY BE NOTCHED, CUT, OR PENETRATED WITH ROUND BORED HOLES AS FOLLOWS:

STUD SIZE	MAXIMUM NOTCH / CUT	MAXIMUM BORED HOLE
2X4	7/8"	1-3/8"
2X6	1-3/8"	2-1/8"

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

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

ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH 16d NAILS AT 12" O.C. STAGGERED OR BOLTED TO CONCRETE WITH 5/8" DIAMETER ANCHOR BOLTS (WITH 7" MINIMUM EMBEDMENT) @ 4'-0" O.C. UNLESS INDICATED OTHERWISE. PROVIDE 3"x3"x1/4" HOT-DIPPED GALVANIZED PLATE WASHERS AT ALL ANCHOR BOLTS. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TO EACH OTHER WITH 16d NAILS @ 12" O.C. STAGGERED. REFER TO THE PLANS AND SHEAR WALL SCHEDULE FOR REQUIRED SHEATHING AND NAILING. WHEN NOT OTHERWISE NOTED, PROVIDE GYPSUM WALLBOARD ON INTERIOR SURFACES NAILED TO ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING WITH NAILS AT 7" O.C. USE 6d COOLER NAILS FOR 1/2" GWB AND 6d COOLER NAILS FOR 5/8" GWB. PROVIDE 15/32" APA RATED SHEATHING (SPAN RATING 24(0) ON EXTERIOR SURFACES NAILED AT ALL PANEL EDGES (BLOCK UNSUPPORTED EDGES), TOP AND BOTTOM PLATES WITH 8d NAILS @ 6" O.C. AND TO ALL INTERMEDIATE STUDS AND BLOCKING WITH NAILS @ 12" O.C. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS.

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

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

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

UNLESS OTHERWISE NOTED ON THE PLANS, APA RATED ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH STRENGTH AXIS PERPENDICULAR TO SUPPORTS AND NAILED WITH NAILS @ 6" O.C. TO FRAMED PANEL EDGES AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" O.C. TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED TONGUE-AND-GROOVE JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF ALL ROOF AND FLOOR SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d @ 12" O.C. UNLESS OTHERWISE NOTED. AT BLOCKED FLOOR AND ROOF DIAPHRAGMS PROVIDE FLAT 2X BLOCKING AT ALL UNFRAMED PLYWOOD PANEL EDGES AND NAIL WITH EDGE NAILING SPECIFIED.

## POST INSALLED ANCHORS

**35. POST-INSTALLED ANCHORS** SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCEMENT. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND ICC-ES REPORT. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD. SUBSTITUTIONS SHALL HAVE CURRENT ICC-ES APPROVAL.

- CONCRETE ANCHORS
  - MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
    - SIMPSON STRONG-TIE "STRONG-BOLT" (ICC-ES ESR-1771)
    - SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713)
  - ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
    - SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508)
    - SIMPSON STRONG-TIE "AT-XP" (APMO UES ER-263)

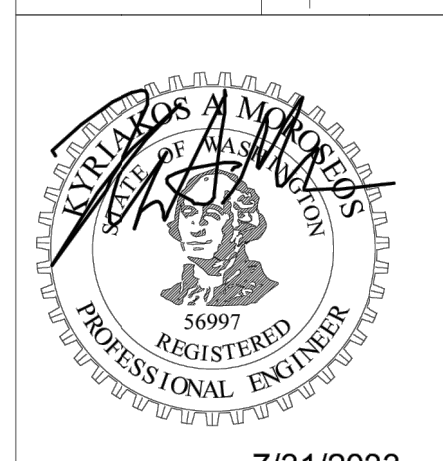


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PROJECT NAME: **RAQUEPAU RESIDENCE**  
 PROJECT ADDRESS: **9116 SE 58th ST  
 MERCER ISLAND, WA 98040**

DWG TITLE: **GENERAL NOTES**  
 DWG NUMBER: \_\_\_\_\_  
 REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_



7/31/2023

PROJECT #

**Z4-3205**

SHEET NO

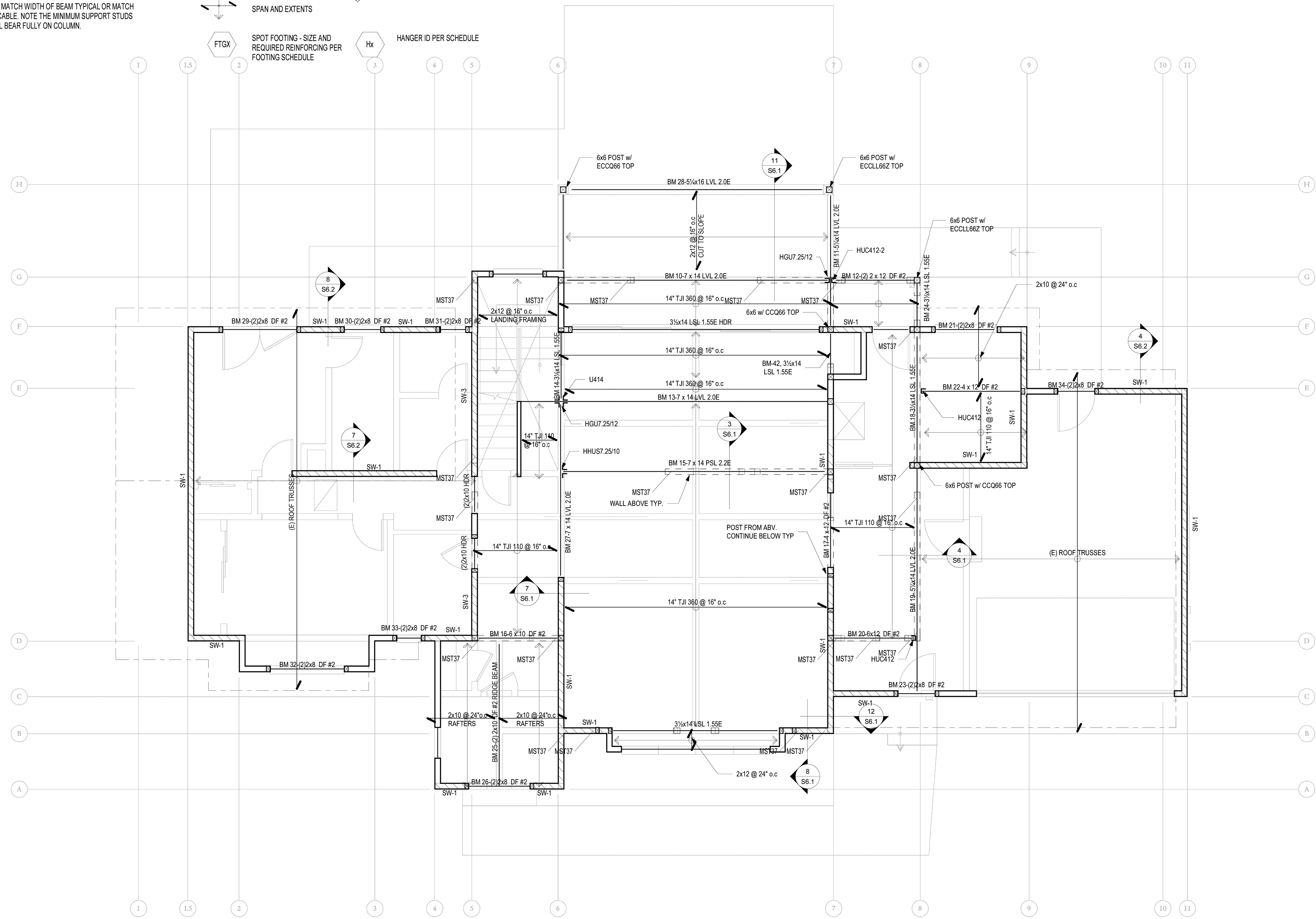
**S1.0**



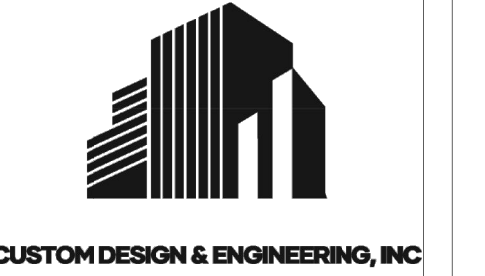
FRAMING PLAN NOTES: (TYPICAL UNLESS NOTED OTHERWISE)

- FLOOR SHEATHING SHALL BE 23/32" TONGUE AND GROOVE APA RATED SHEATHING (SPAN RATING 40/20). NAIL @ ALL FRAMED PANEL EDGES AND OVER SHEARWALLS w/10d @ 6" oc AND 12" oc TO ALL INTERMEDIATE FRAMING.
- ROOF SHEATHING SHALL BE 15/32" APA RATED SHEATHING (SPAN RATING 24/0). NAIL @ ALL FRAMED PANEL EDGES AND OVER SHEARWALLS w/ 8d @ 6" oc AND 12" oc TO ALL INTERMEDIATE FRAMING. ENTIRE ROOF HAS BEEN DESIGNED FOR ADDITIONAL 5 PSF SOLAR PANELS.
- SW- INDICATES STRUCTURAL WALL TYPE PER SCHEDULE 12/S6.0b. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL WALL INFORMATION.
- ALL HEADERS AND BEAMS ARE MARKED ON PLAN. REFER NOTE 5 FOR SUPPORT REQUIREMENTS.
- COLUMNS SHALL CONSIST OF STUDS TO MATCH WIDTH OF BEAM TYPICAL OR MATCH POST SIZE SPECIFIED ON PLAN IF APPLICABLE. NOTE THE MINIMUM SUPPORT STUDS SHALL BE (2) 2x. BEAM OR HEADER SHALL BEAR FULLY ON COLUMN.

LEGEND			
	HANGER	SW-x	INDICATES SHEARWALL PER SCHEDULE 12/S6.0b
	COLUMNS BELOW		INDICATES SIMPSON HOLDOWN. REFER DETAIL 8/S6.0b FOR REQUIRED NUMBER OF STUDS, THREADED ROD CALLOUT & EMBEDMENT INTO CONCRETE.
	COLUMNS ABOVE		INDICATES SIMPSON STRAP HOLDOWN. REFER DETAIL 8/S6.0b
	ABRUPT CHANGE IN SLAB/FRAMING ELEVATION		
	INDICATES FLUSH BEAM		
	SPAN AND EXTENTS		
	SPOT FOOTING - SIZE AND REQUIRED REINFORCING PER FOOTING SCHEDULE	Hx	HANGER ID PER SCHEDULE



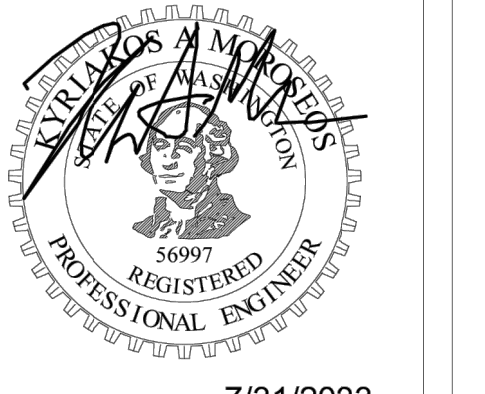
UPPER FLOOR FRAMING PLAN  
1/4" = 1'-0"



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DWG TITLE	Number	Revision	Date
<b>UPPER FLOOR FRAMING</b>			



7/31/2023  
PROJECT #  
**Z4-3205**

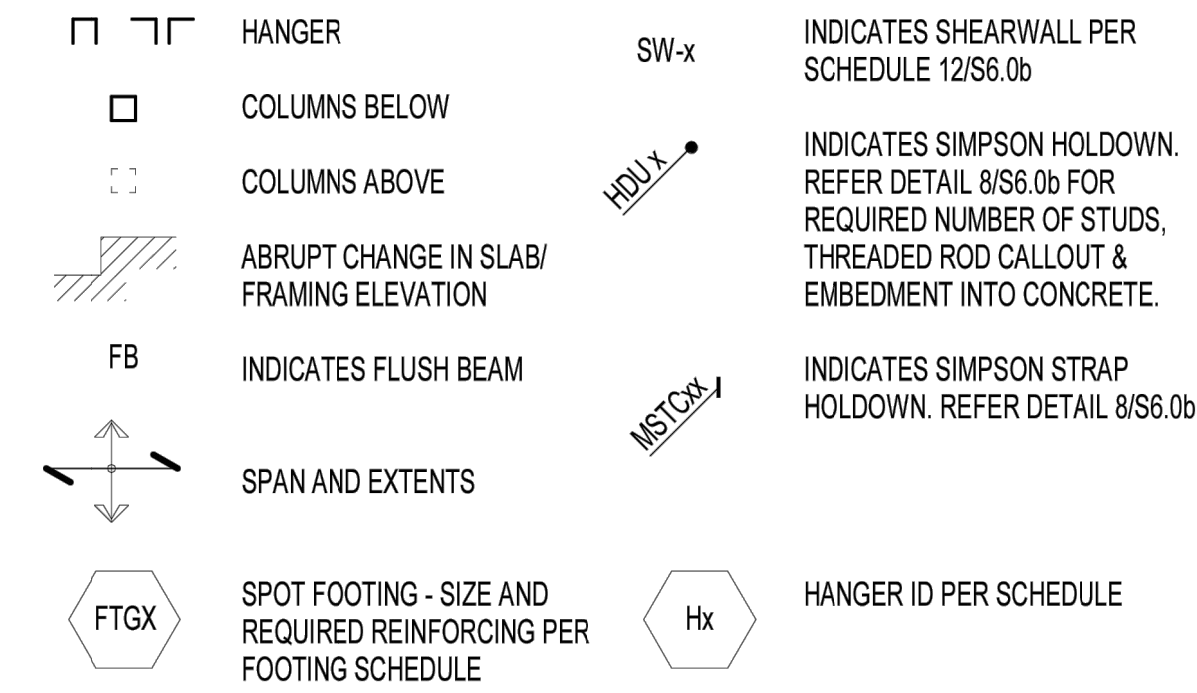
SHEET NO  
**S2.1**



FRAMING PLAN NOTES: (TYPICAL UNLESS NOTED OTHERWISE)

- FLOOR SHEATHING SHALL BE 23/32" TONGUE AND GROOVE APA RATED SHEATHING (SPAN RATING 40/20). NAIL @ ALL FRAMED PANEL EDGES AND OVER SHEARWALLS w/10d @ 6"oc AND 12"oc TO ALL INTERMEDIATE FRAMING.
- ROOF SHEATHING SHALL BE 15/32" APA RATED SHEATHING (SPAN RATING 24/0). NAIL @ ALL FRAMED PANEL EDGES AND OVER SHEARWALLS w/ 8d @ 6"oc AND 12"oc TO ALL INTERMEDIATE FRAMING. ENTIRE ROOF HAS BEEN DESIGNED FOR ADDITIONAL 5 PSF SOLAR PANELS.
- SW- INDICATES STRUCTURAL WALL TYPE PER SCHEDULE 12/S6.0b. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL WALL INFORMATION.
- ALL HEADERS AND BEAMS ARE MARKED ON PLAN. REFER NOTE 5 FOR SUPPORT REQUIREMENTS.
- COLUMNS SHALL CONSIST OF STUDS TO MATCH WIDTH OF BEAM TYPICAL OR MATCH POST SIZE SPECIFIED ON PLAN IF APPLICABLE. NOTE THE MINIMUM SUPPORT STUDS SHALL BE (2) 2x BEAM OR HEADER SHALL BEAR FULLY ON COLUMN.

LEGEND



FRAMING PLAN NOTES: (TYPICAL UNLESS NOTED OTHERWISE)

TRUSS DESIGN LOADS:  
 SNOW: 25 PSF  
 ROOF DEAD = 15 PSF  
 UPLIFT = 10 PSF  
 MINIMUM LWR CHORD DESIGN LOAD = 20 PSF

PRE-MANUFACTURED TRUSSES PER SECTION IBC 2303.4.1  
 TRUSS DESIGN DRAWINGS, TRUSS CONSTRUCTION DOCUMENTS SHALL BE PREPARED BY A WASHINGTON STATE LICENSED ENGINEER AND SHALL BE PROVIDED TO THE BUILDING OFFICIAL AND APPROVED PRIOR TO INSTALLATION. THESE CONSTRUCTION DOCUMENTS SHALL INCLUDE, AT A MINIMUM, THE INFORMATION SPECIFIED BELOW. TRUSS SHOP DRAWINGS SHALL BE PROVIDED WITH THE SHIPMENT OF TRUSSES DELIVERED TO THE JOB SITE.

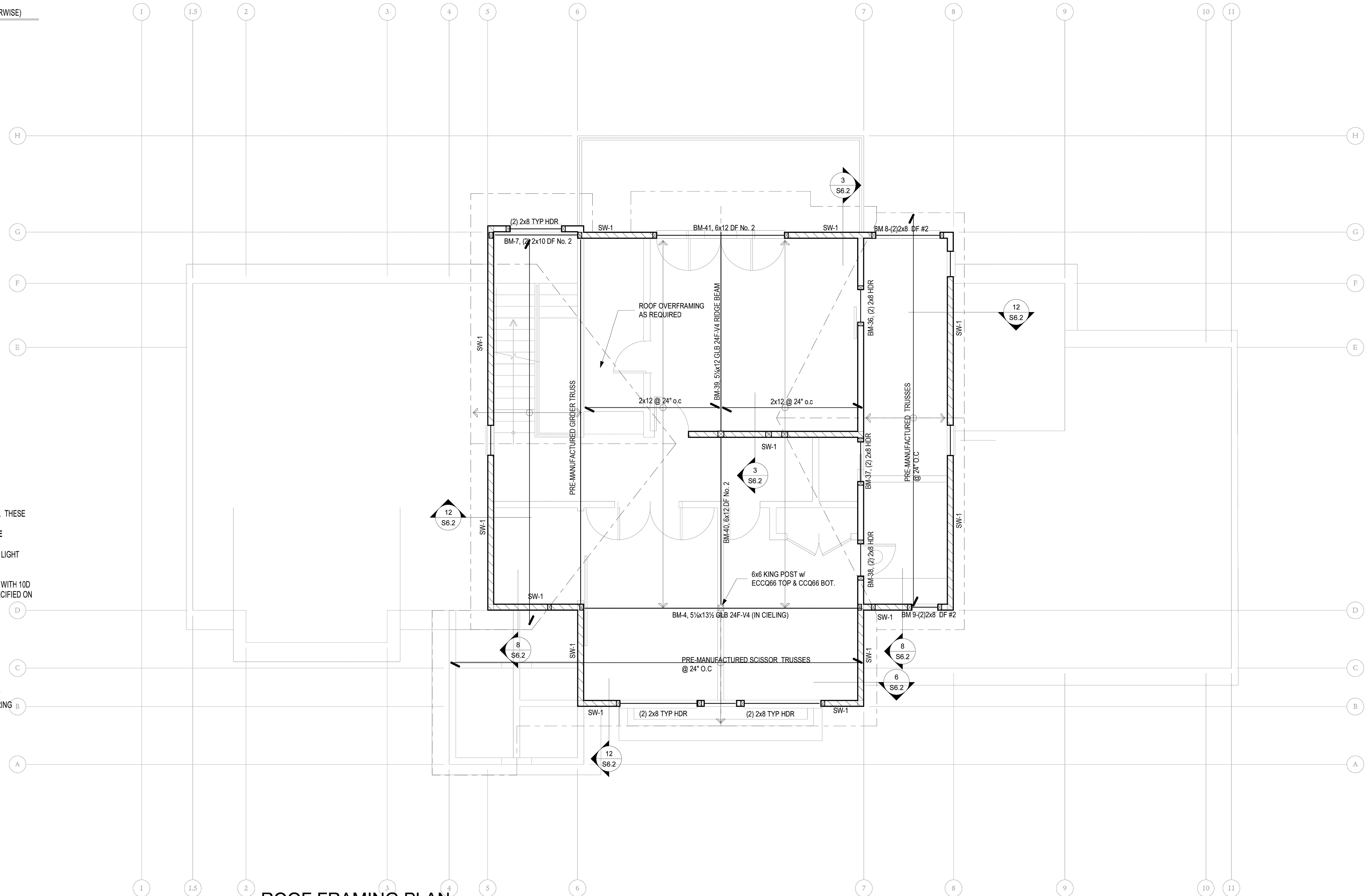
- SLOPE OR DEPTH, SPAN AND SPACING;
- LOCATION OF JOINTS;
- REQUIRED BEARING WIDTHS;
- DESIGN LOADS AS APPLICABLE;
- TOP CHORD LIVE LOAD (INCLUDING SNOW LOADS);
- TOP CHORD DEAD LOAD;
- BOTTOM CHORD LIVE LOAD;
- BOTTOM CHORD DEAD LOAD;
- CONCENTRATED LOADS AND THEIR POINTS OF APPLICATION;
- CONTROLLING WIND AND EARTHQUAKE LOADS;
- ADJUSTMENTS TO LUMBER AND METAL CONNECTOR PLATE DESIGN VALUE FOR CONDITIONS OF USE;
- EACH REACTION FORCE AND DIRECTION;
- METAL CONNECTOR PLATE TYPE, SIZE, THICKNESS OR GAGE, AND THE DIMENSIONED LOCATION OF EACH METAL CONNECTOR PLATE EXCEPT WHERE SYMMETRICALLY LOCATED RELATIVE TO THE JOINT INTERFACE;
- LUMBER SIZE, SPECIES AND GRADE FOR EACH MEMBER;
- CONNECTION REQUIREMENTS FOR:
  - TRUSS TO TRUSS GIRDER;
  - TRUSS PLY TO PLY; AND
  - FIELD SPECIES;
- DRAG TRUSS CONNECTION TO SHEAR WALLS FOR THE LOADS SPECIFIED (WHERE APPLICABLE);
- CALCULATED DEFLECTION RATIO OR MAXIMUM DEFLECTION FOR LIVE AND TOTAL LOAD;
- MAXIMUM AXIAL COMPRESSION FORCES IN THE TRUSS MEMBERS TO DESIGN THE SIZE, CONNECTIONS AND ANCHORAGE OF THE PERMANENT CONTINUOUS LATERAL BRACING. FORCES SHALL BE SHOWN ON THE TRUSS CONSTRUCTION DOCUMENTS OR ON SUPPLEMENTAL DOCUMENTS; AND
- REQUIRED PERMANENT TRUSS MEMBER BRACING LOCATION.

PROVIDE 4 X 6 DF 1 POST UNDER ALL GIRDER TRUSS SUPPORT LOCATIONS. THESE SUPPORTS MUST FOLLOW TO FOUNDATION TO DISTRIBUTE BEARING LOADS

UNLESS NOTED OTHERWISE THE ROOF STRUCTURE SHALL CONSIST OF THE FOLLOWING:

- LIGHT WEIGHT ROOF NOT EXCEEDING 6 PSF. THIS MAY CONSIST OF: LIGHT WEIGHT TILE, CEDAR SHAKES, COMPOSITION ROOF, LIGHT GAUGE METAL.
  - 15# FELT (OR AS SPECIFIED BY ARCHITECT).
  - 15 / 32 CDX OR 1/2" OSB. NAILED TO 2X NOMINAL FRAMING MEMBERS WITH 10D @ 6" O.C. EDGES & 12" O.C. FIELD. NO BLOCKING IS REQUIRED, UNLESS SPECIFIED ON PLAN.
  - INSULATION PER ARCHITECTURAL DRAWINGS.
- NO MODIFICATION IS ALLOWED ON PRE-ENGINEERED TRUSSES.  
 FRAMING/BRACING IS ERECTORS RESPONSIBILITY.  
 OVER FRAMING SHALL CONSIST OF THE FOLLOWING:
- 2 X 4 HF #2 FOR SPANS UP TO 6'
  - 2 X 6 HF #2 FOR SPANS UP TO 8'
  - 2 X 8 HF #2 FOR SPANS UP TO 12'
  - 2 X 10 HF #2 FOR SPANS UP TO 16'

REFER TO THE TYPICAL HEADER DETAIL ON THIS SHEET FOR HEADERS NOT SPECIFICALLY CALLED OUT ON THE PLAN. THIS DETAIL IS TYPICAL FOR NON-BEARING EXTERIOR WALLS.



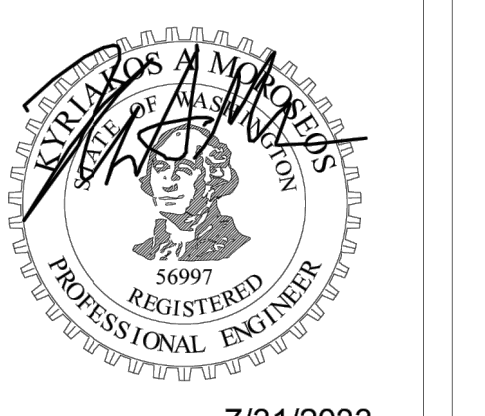
ROOF FRAMING PLAN  
 1/4" = 1'-0"



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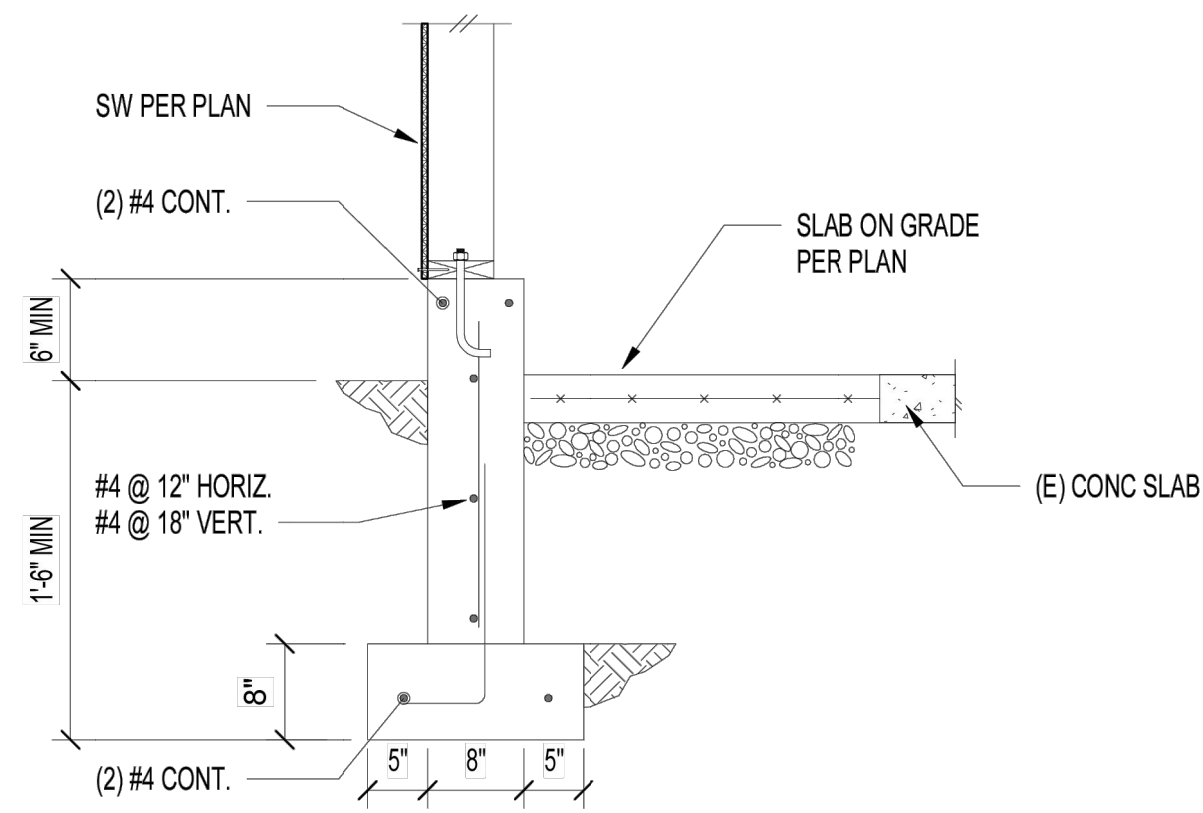
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 PROJECT ADDRESS: **9116 SE 58th ST  
 MERCER ISLAND, WA 98040**

DWG TITLE: **ROOF FRAMING PLAN**

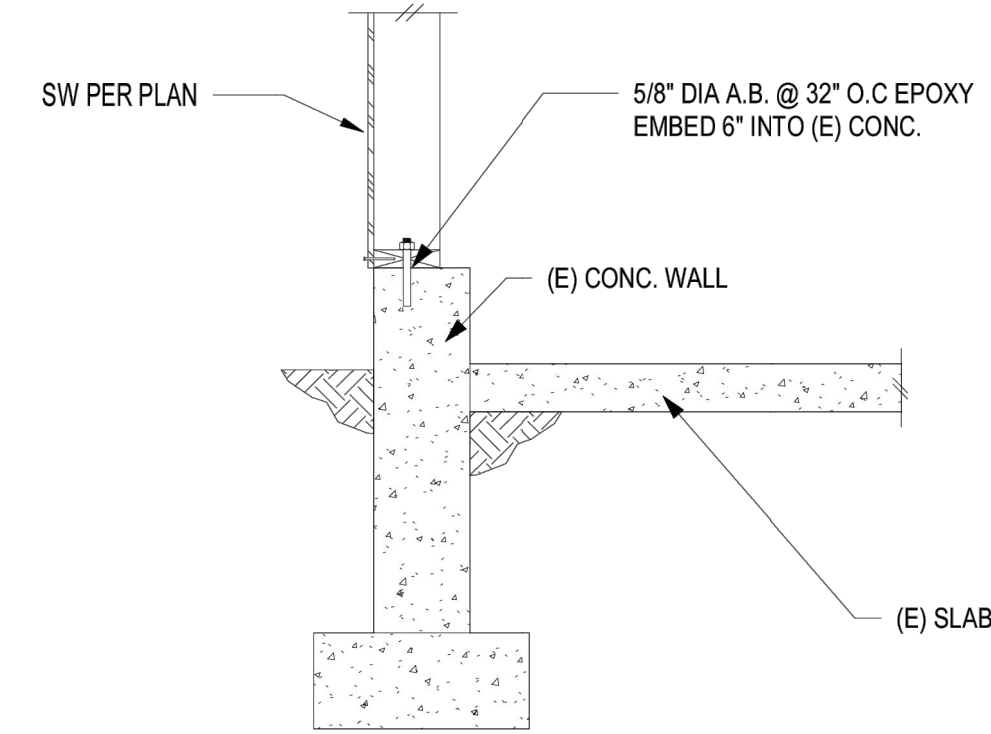


7/31/2023  
 PROJECT # **Z4-3205**

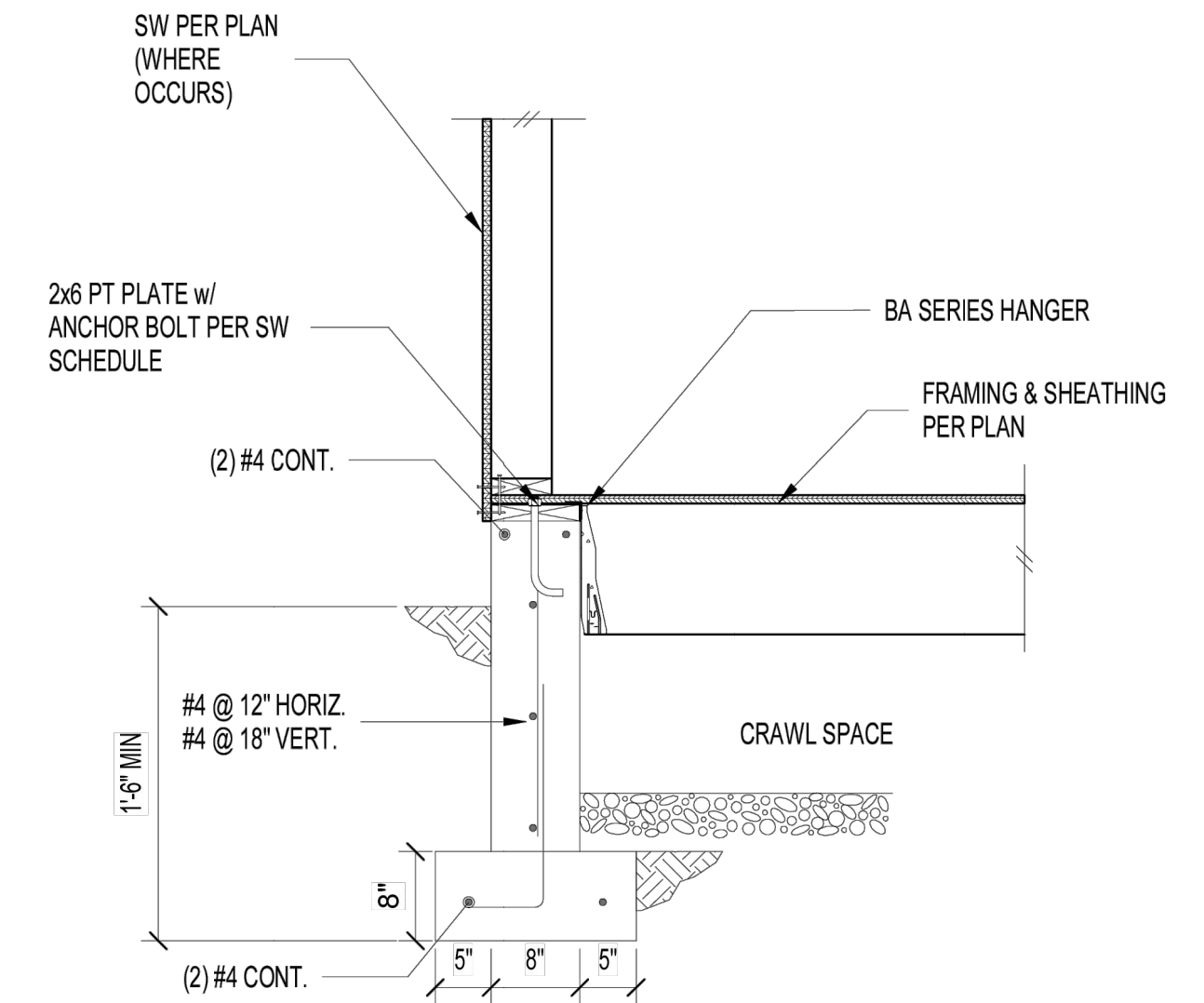
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**S2.2**



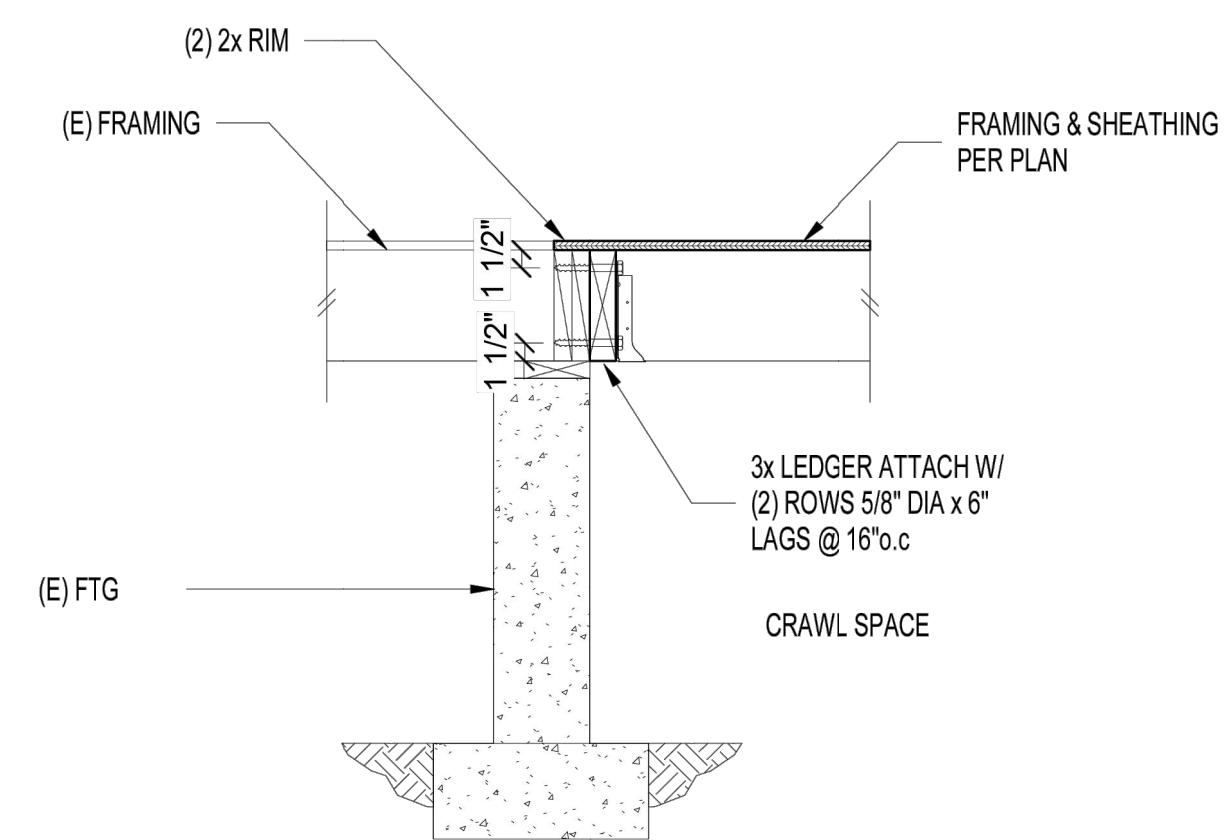
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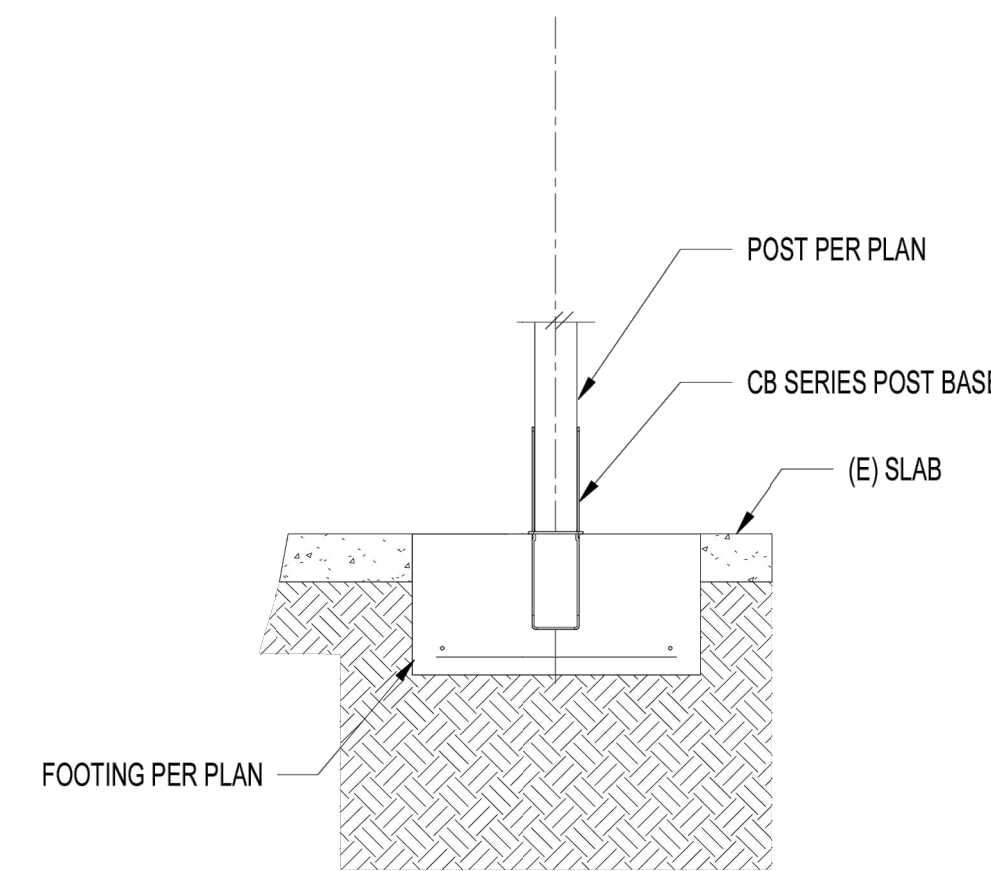
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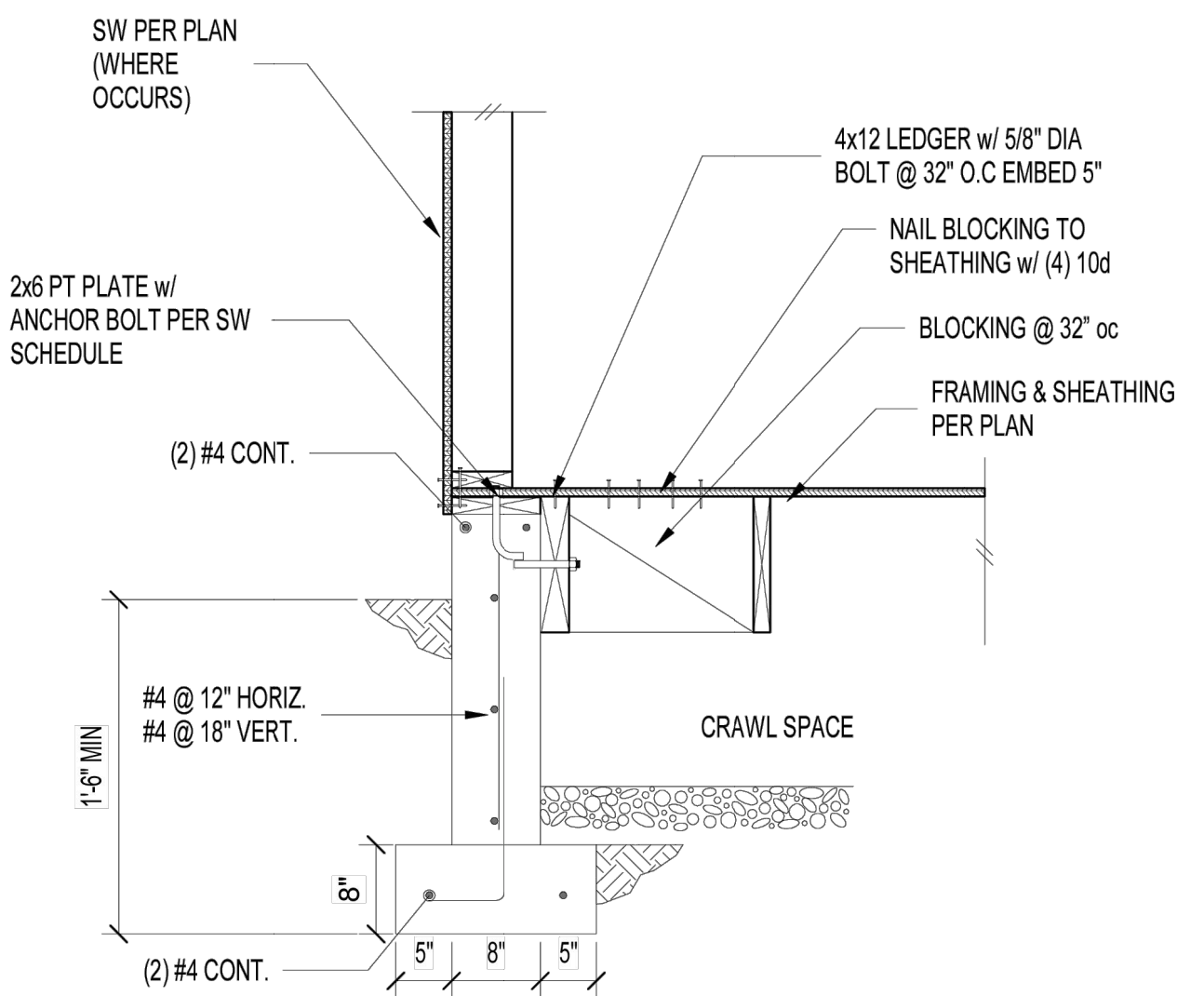
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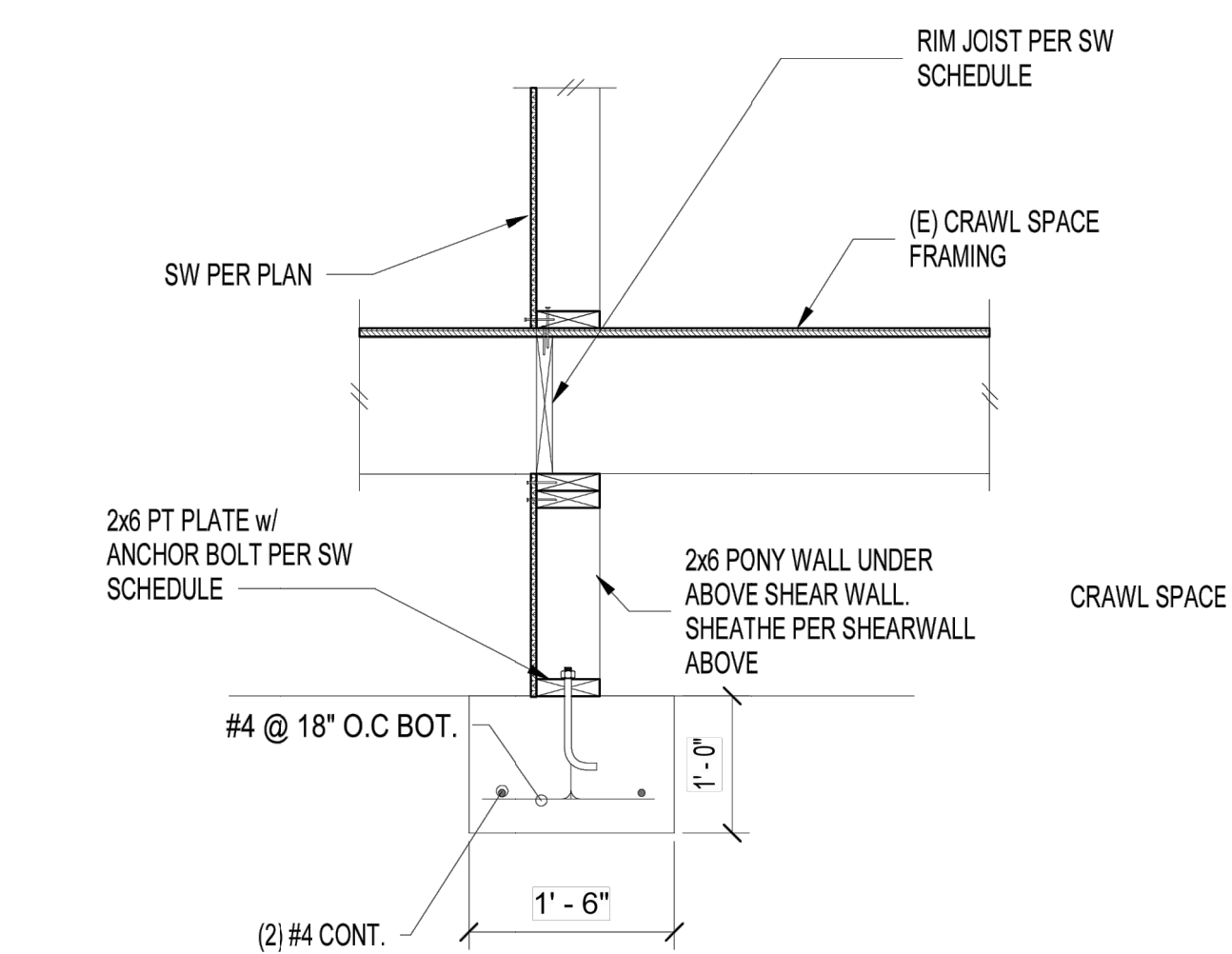


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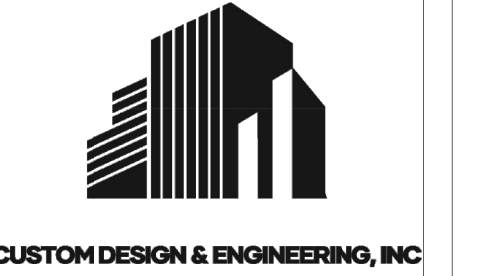
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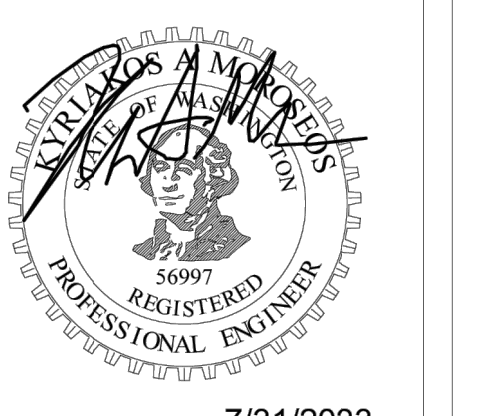
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DWG TITLE	Number	Revision	Date
<b>DETAILS</b>			



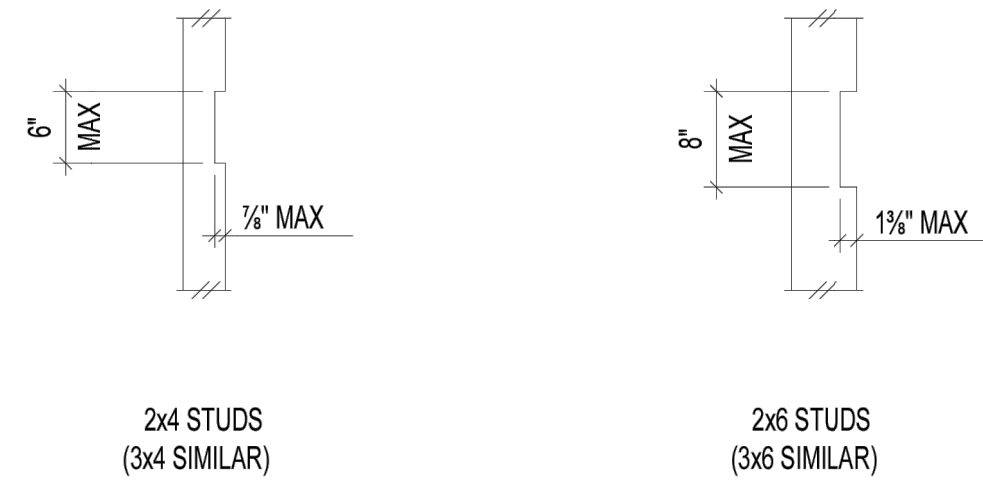
7/31/2023  
PROJECT # **Z4-3205**

SHEET NO  
**S3.0**

11

12

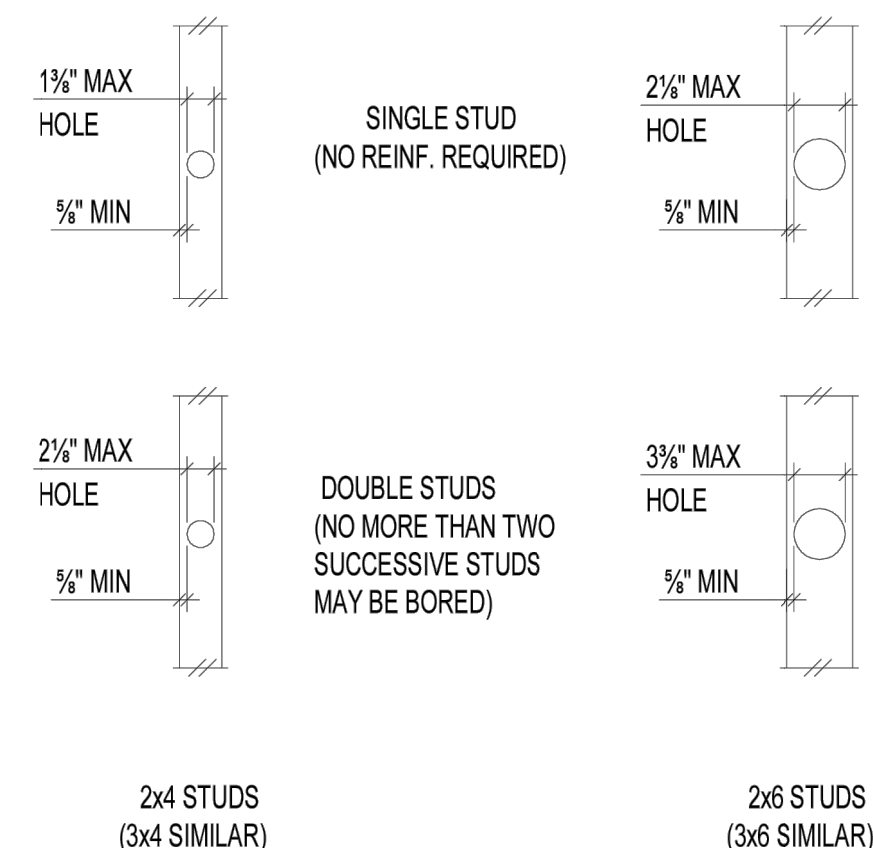
NOTE: NOTCHES SHALL NOT OCCUR IN MORE THAN (2) SUCCESSIVE STUDS



ANY NOTCH OR HOLE THRU STUDS EXCEEDING ABOVE DETAIL SHALL GET E.O.R. APPROVAL FOR POSSIBLE REINFORCING REQUIREMENTS PRIOR TO DRILLING/NOTCHING

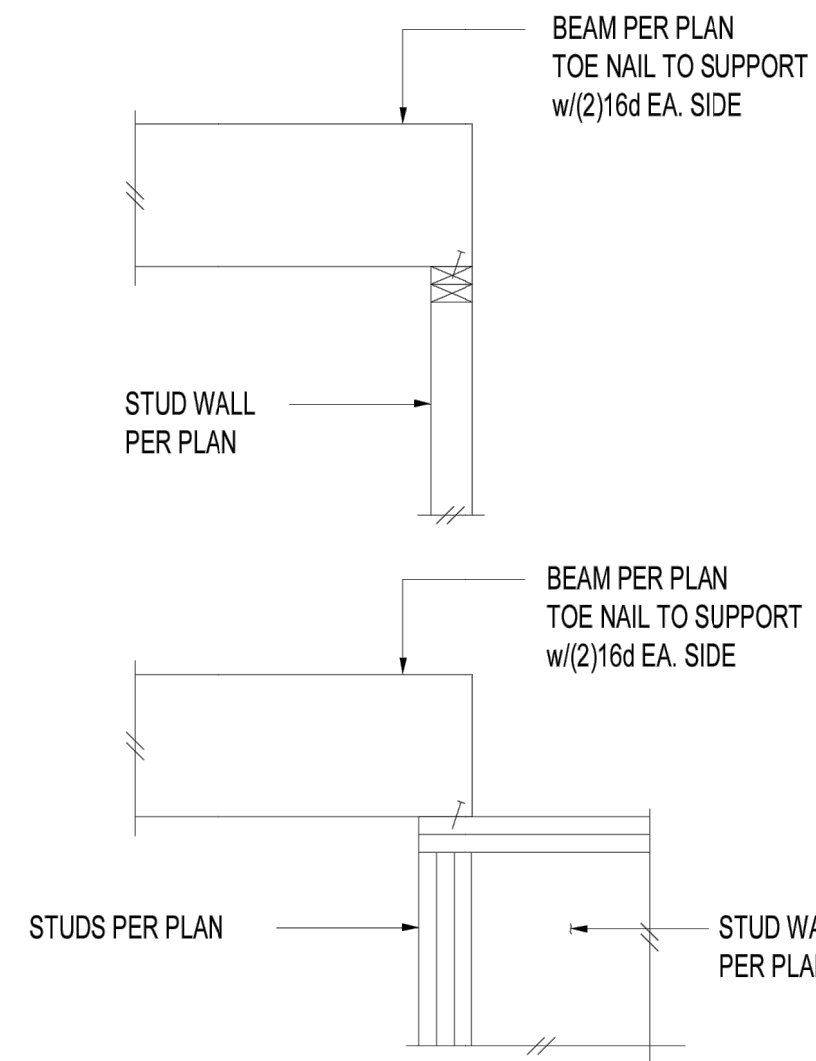
ALLOWABLE NOTCHES IN STUDS - N.T.S 1

NOTE: BORED HOLES SHALL NOT BE LOCATED @ THE SAME SECTION OF STUD AS A NOTCH.

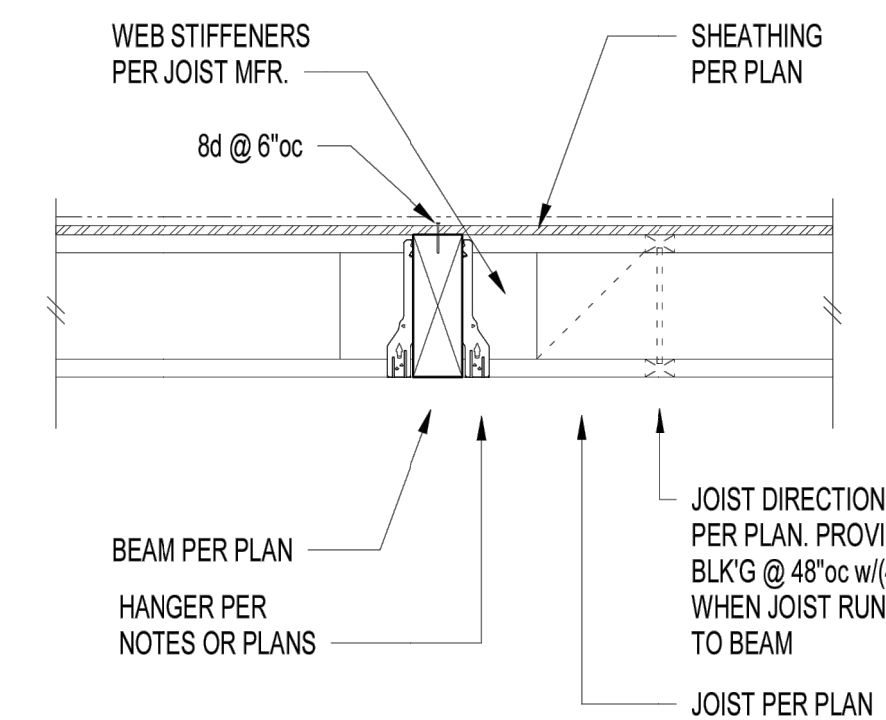


NOTE: BORED HOLES SHALL NOT BE LOCATED @ THE SAME SECTION OF STUD AS A NOTCH.

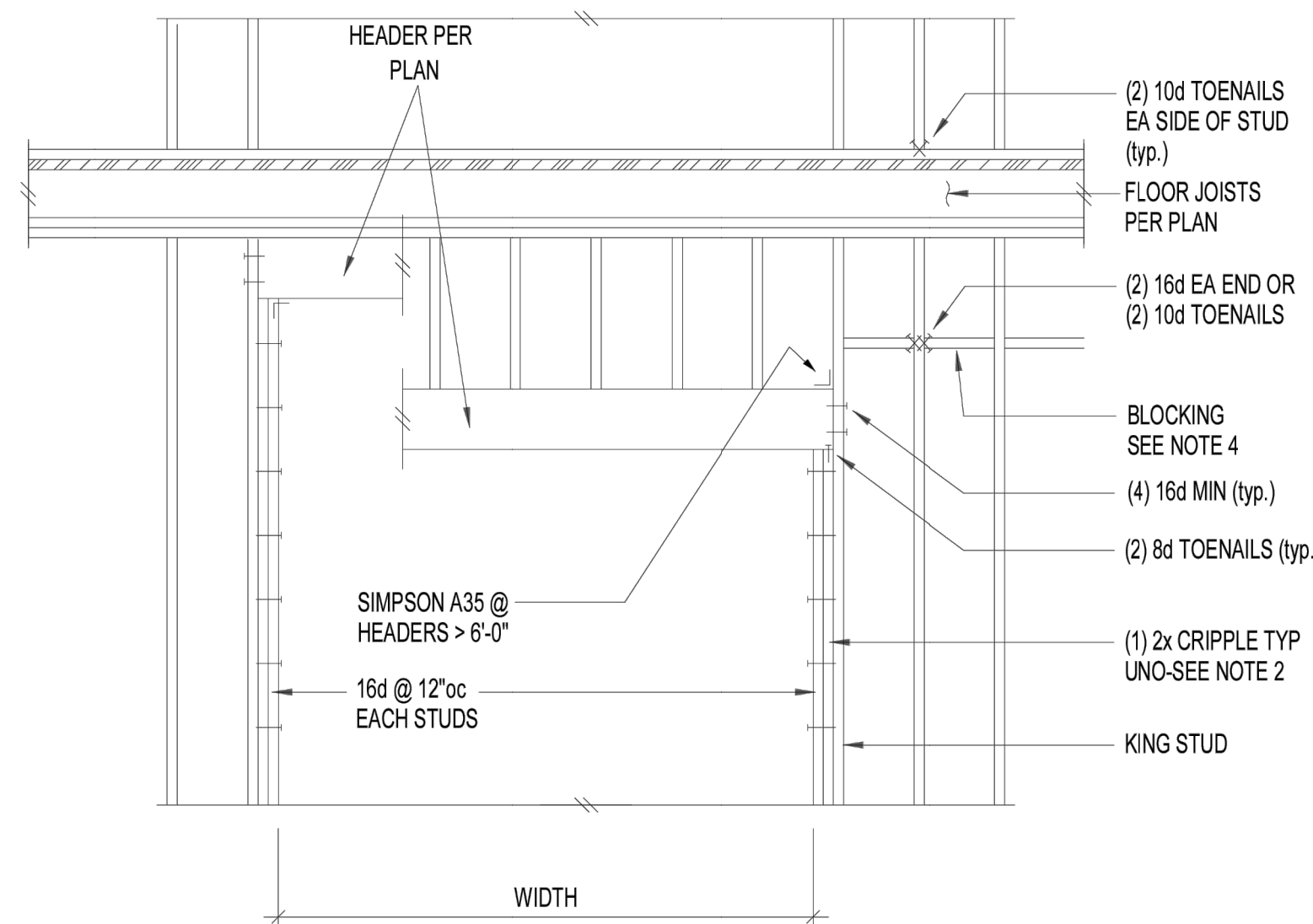
HOLES ALLOWED THROUGH STUDS - N.T.S 2



TYPICAL BEAM TO STUD DETAIL - N.T.S 3



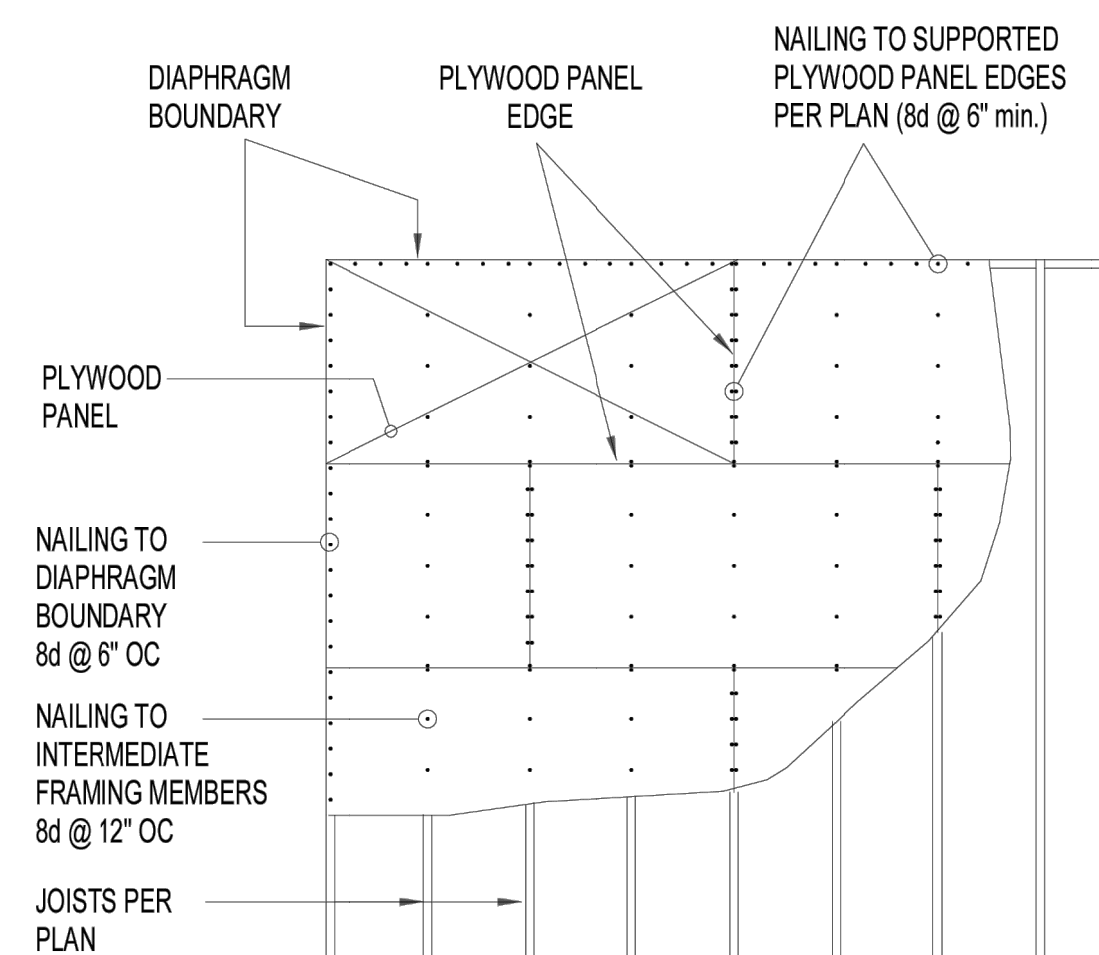
TYPICAL FLUSH BEAM CONNECTION - N.T.S 4



NOTES:

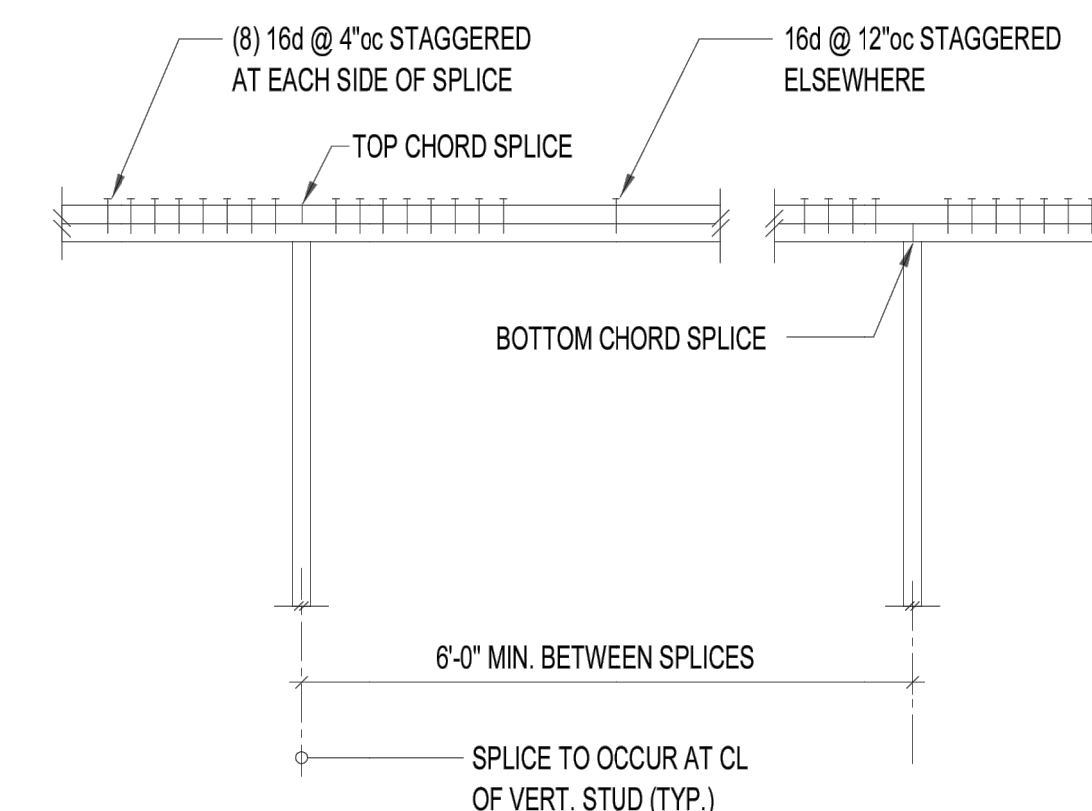
1. HEADERS PER PLAN
2. PROVIDE (1) 2x CRIPPLE STUDS MINIMUM TYPICAL U.O.N.
3. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS
4. 2x SOLID BLOCKING REQUIRED AT CEILING LINE, ALL PANEL EDGES, AND @ 8'-0" oc MAX.

TYPICAL WALL OPENING FRAMING ELEVATION - N.T.S 6

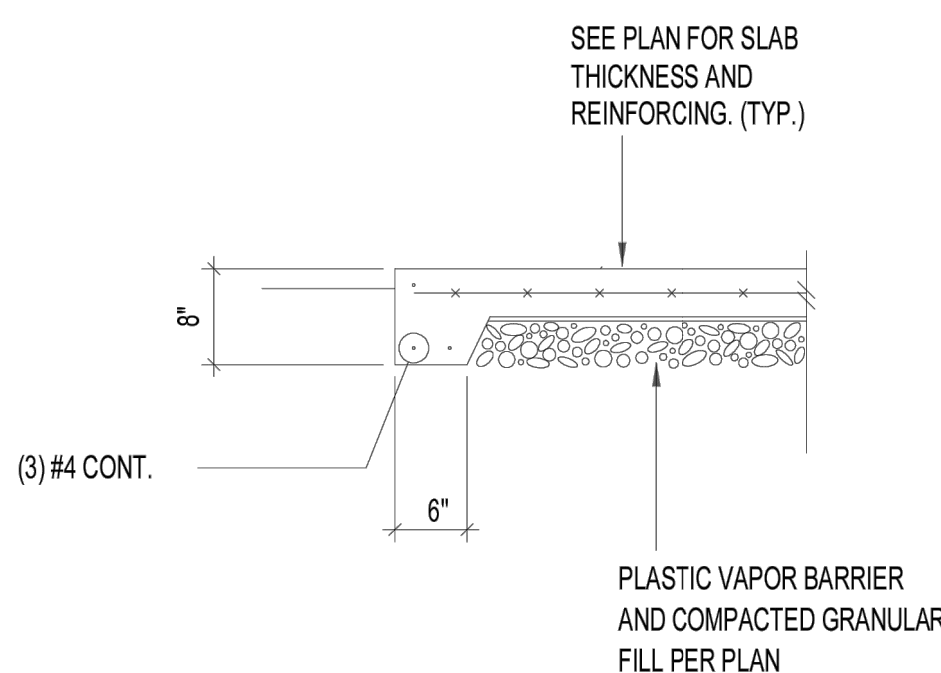


NOTE: BEARING AND SHEAR WALL INTERSECTIONS SHALL BE CONSIDERED DIAPHRAGM BOUNDARIES, TYP

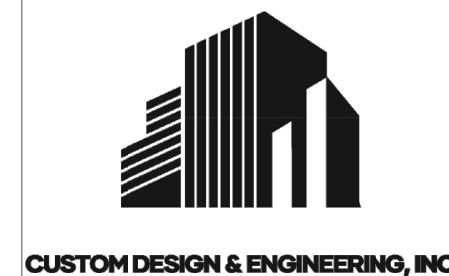
TYPICAL UNBLOCKED SHEATHING - N.T.S 7



TOP PLATE SPLICE - N.T.S 8



TYPICAL SLAB EDGE - N.T.S 9

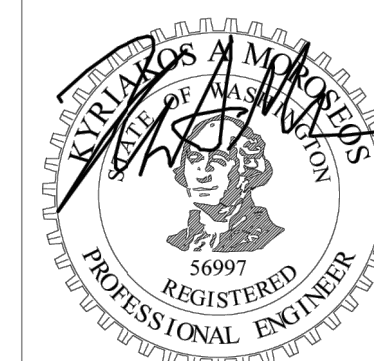


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PROJECT NAME: RAQUEPAU RESIDENCE  
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DWG TITLE: TYPICAL WOOD DETAILS

Number Revision Date



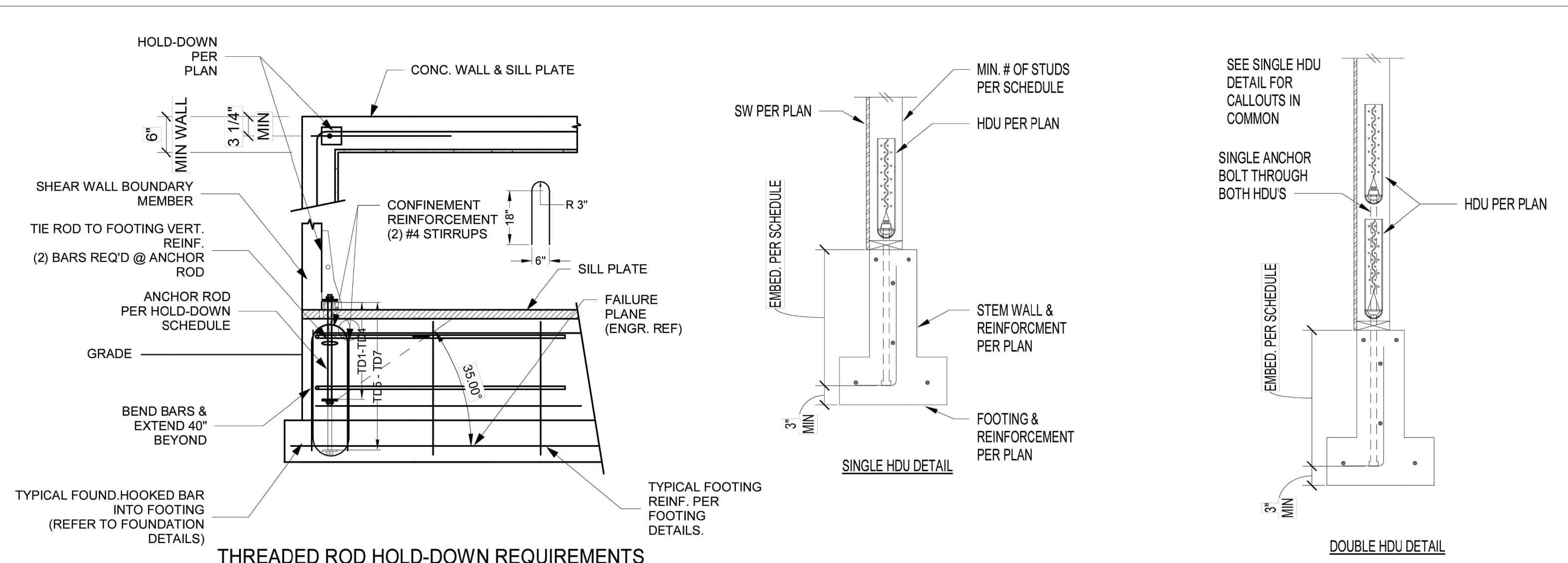
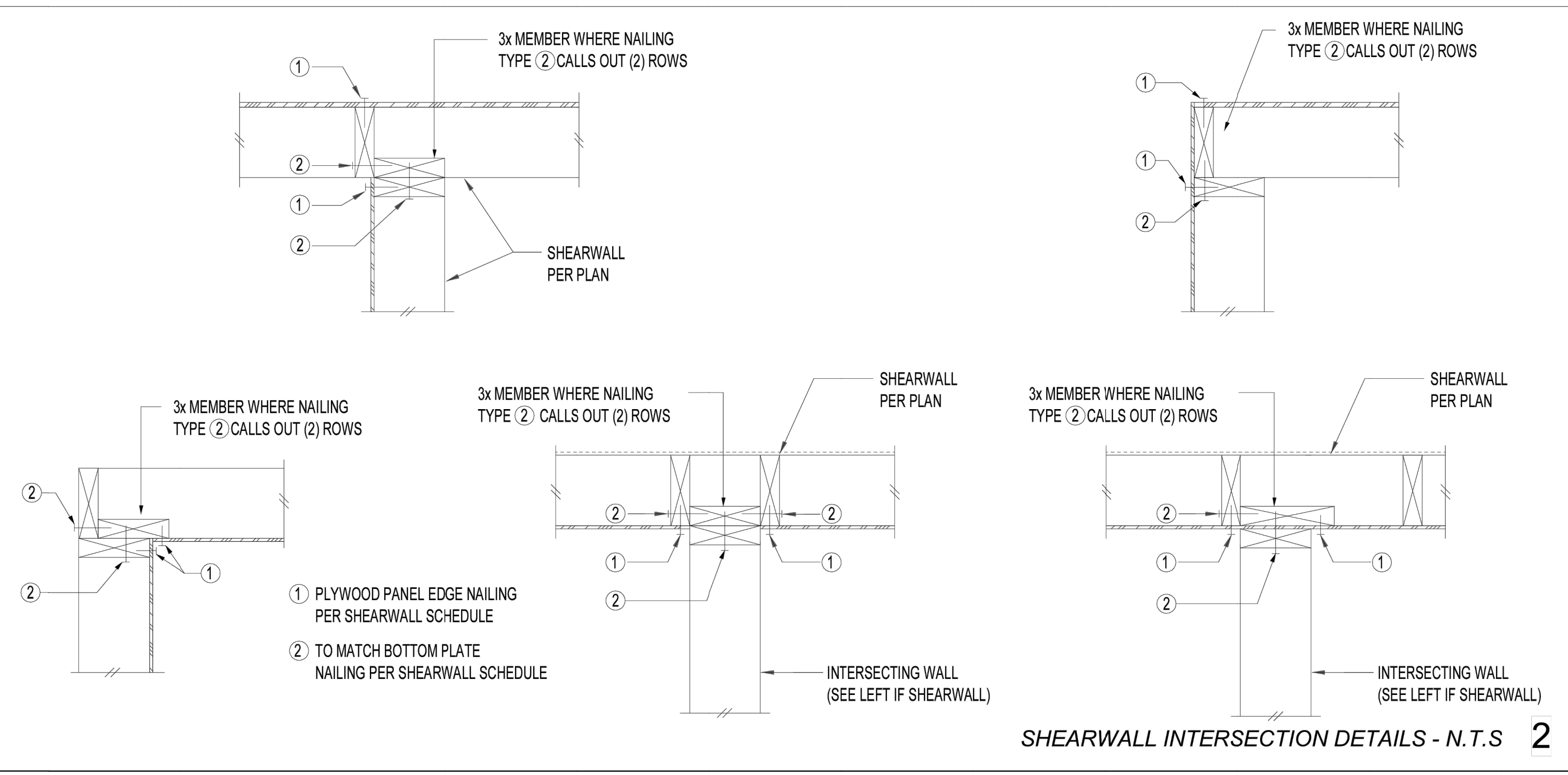
7/31/2023

PROJECT #

Z4-3205

SHEET NO

S6.0a



**HOLD-DOWN SCHEDULE - HOLD DOWNS ATTACHED BETWEEN FRAMED WALLS**

TYPE (2)	CAPACITY (3)(4)	NUMBER OF STUDS / SOLID COLUMN	NAILS / SCREWS / BOLTS
MST37	2010	(2) 2 X HEM-FIR	30 - 10d (0.148" DIA)
MST48	3105	(2) 2 X DOUG-FIR	38 - 10d (0.148" DIA)
MST60	4800	(2) 2 X DOUG-FIR	40 - 10d (0.148" DIA)
(2) MST48	6210	(2) 2 X DOUG-FIR	(2) 38 - 10d (0.148" DIA)**
(2) MST60	9600	(3) 2 X DOUG-FIR	(2) 40 - 10d (0.148" DIA)**

**NOTES:**

(1) FILL ALL HOLES WITH 10d COMMONS NAILS (EXCEPTION SEE NOTE 3).

(2) WHERE DOUBLE STRAPS ARE INDICATED SUCH AS (2) MST37 USE 10d X 1-1/2" COMMONS NAILS. SEE DETAIL A/S7.1 FOR DETAIL.

(3) THE VALUES ABOVE ARE BASED ON A 16" CLEAR SPAN WITH HEM-FIR FRAMING & WIND LOAD DURATION.

\*\* STAGGER NAILING PER DETAIL B

**HOLD-DOWN SCHEDULE - HOLD DOWNS ATTACHED TO CONCRETE**

MARK	TYPE	CAPACITY	ANCHOR BOLT (MONO POUR)	ANCHOR BOLT (TWO POUR)	NUMBER OF STUDS / SOLID COLUMN	NAILS / SCREWS / BOLTS
TD1	STD14 OR HDU4-SDS2.5	3285	SSTB24 (FOR HDU4)	SSTB24 (FOR HDU4)	(2) 2 X HEM-FIR	30 - 10d (0.148" DIA)
TD2	HDU5-SDS2.5 (SP/HF)	4065	SSTB24 (FOR HDU5)	SSTB24 (FOR HDU5)	(2) 2 X DOUG-FIR	38 - 10d (0.148" DIA)
TD3	HDU5-SDS2.5 (DF/SP)	5645	1" x 24 ASTM A307	1" x 24 ASTM A307	(2) 2 X DOUG-FIR	40 - 10d (0.148" DIA)
TD4	HDU1-SDS2.5	7480	SSTB28	SSTB28	(2) 2 X DOUG-FIR	29 - 1" X 3 - SCREWS
TD5	HDU11-SDS2.5	9540	1" x 24 ASTM A307	1" x 24 ASTM A307	6 X 6 DF 2 POST	28 - 1" X 3 - SCREWS
TD6	HDU11-SDS2.5	11175	1" x 24 ASTM A307	1" x 24 ASTM A307	6 X 6 DF 1 POST	
TD7	HDU14-SDS2.5	14445	1" x 24 ASTM A307	1" x 24 ASTM A307	6 X 6 DF 1 POST	
TD8	HD12	15510	1-1/8" X 24 ASTM A307	1-1/8" X 24 ASTM A307	6 X 6 DF 1 POST	
TD9	HD19	19070	1-1/4" X 24" ASTM 307	1-1/4" X 24" ASTM A307	6 X 6 DF 1 POST	

**NOTES:**

1. HOLD-DOWNS SHALL BE MANUFACTURED BY THE SIMPSON STRONG-TIE CO. OR EQUIVALENT.

2. ALL BUILT UP STUDS SHALL RECEIVE SHEAR WALL EDGE NAILING.

3. INSTALL HOLD-DOWN BOLTS THRU THE THICKER SECTION OF THE SOLID POST.

4. 5/8" DIA ASTM A36 THREADED ROD EMBEDDED 12 INCHES IS ACCEPTABLE SUBSTITUTION FOR SST20, SST24, OR SST28.

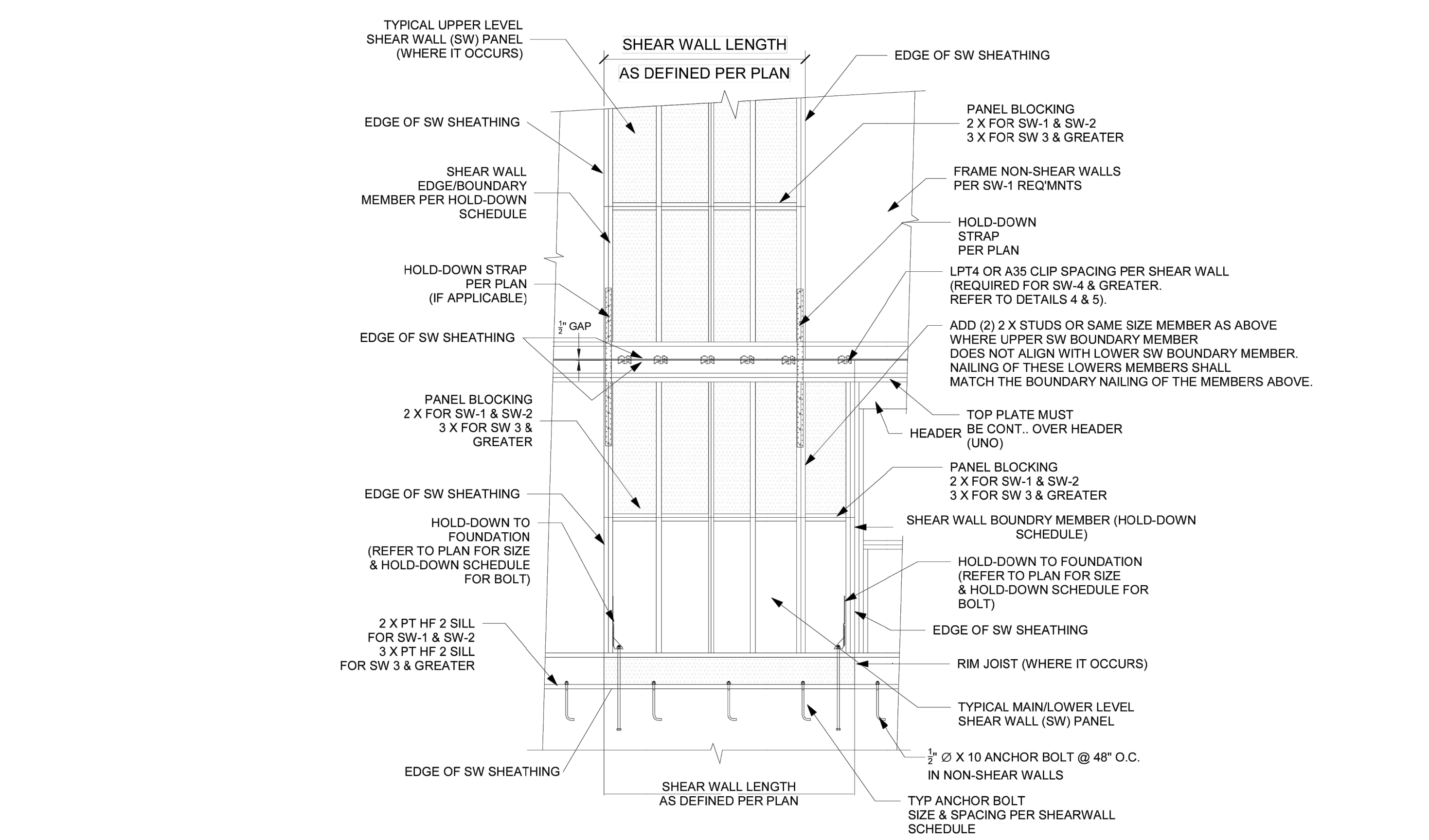
3/4" DIA ASTM A36 THREADED ROD EMBEDDED 12 INCHES IS ACCEPTABLE SUBSTITUTION FOR SST28 OR SST34.

**HOLD-DOWN SCHEDULE - HOLD DOWNS ATTACHED TO EXISTING WITH EPOXY**

MARK	EPOXY EMBED	NUMBER OF STUDS / SOLID COLUMN	NAILS / SCREWS / BOLTS
HDU2	7"	(2) 2 X HEM-FIR	30 - 10d (0.148" DIA)
HDU4	9"	(2) 2 X DOUG-FIR	38 - 10d (0.148" DIA)
HDU5	12"	(2) 2 X DOUG-FIR	40 - 10d (0.148" DIA)
HDU8	15"	(2) 2 X DOUG-FIR	(2) 38 - 10d (0.148" DIA)**
HDU11	-	(3) 2 X DOUG-FIR	(2) 40 - 10d (0.148" DIA)**

**NOTES:**

1. USE SIMPSON SERIES EPOXY AS INDICATED IN GENERAL NOTES



**NOTES FOR TYPICAL SEGMENTED SHEAR WALLS (SW)**

NO SCALE

1. REFER TO PLAN FOR SHEAR WALL LENGTH & HOLD-DOWN SIZES.

2. REFER TO SHEAR WALL SCHEDULE FOR SW PANEL SIZE, NAILING AND BLOCKING.

3. REFER TO SHEAR WALL SCHEDULE FOR BOUNDARY MEMBERS.

4. REFER TO HOLD-DOWN SCHEDULE FOR HOLD-DOWNS & BOLTS.

**TYPICAL HOLD-DOWN SCHEDULE - N.T.S 8**

**SHEAR WALL SCHEDULE**

MARK	CAPACITY (LB/FT) (1)	SHEATHING (PLYWOOD/OSB) (2)	NAIL SIZE (3)	EDGE NAIL SPACING (4)	FIELD NAIL SPACING	BOTTOM PLATE NAILING (2ND FLOOR) (6)	SILL PLATE CONN. TO FOUNDATION (10)	SHEAR CLIP SPACING (LTP4 OR A35 REFER TO DETAILS)	TYP FRAMING (U.N.O)	FRAMING AT ABUTTING EDGES (11)	FOUNDATION SILL PLATES	PLATES
SW-1	213	7/16	8d (0.131" DIA)	6	SEE NOTE 5	16d @ 6" O.C.	1/2" X 10 @ 35" O.C.	LTP4 or A35 @ 16" O.C.	2 X	2 X	2 X	(2) 2 X
SW-2	254	7/16	8d (0.131" DIA)	4	SEE NOTE 5	16d @ 4" O.C.	1/2" X 10 @ 30" O.C.	LTP4 or A35 @ 16" O.C.	2 X	2 X	2 X	(2) 2 X
SW-3	350	7/16	8d (0.131" DIA)	3	SEE NOTE 5	16d @ 4" O.C.	1/2" X 10 @ 20" O.C.	LTP4 or A35 @ 16" O.C.	2 X	3 X	3 X	(2) 2 X
SW-4	492	15/32	10d (0.148 DIA)	3	SEE NOTE 5	16d @ 3" O.C.	1/2" X 10 @ 24" O.C.	LTP4 or A35 @ 12" O.C.	2 X	3 X	3 X	(2) 2 X
SW-5	631	15/32	10d (0.148 DIA)	2	SEE NOTE 5	16d @ 2" O.C.	1/2" X 10 @ 18" O.C.	LTP4 or A35 @ 9" O.C.	2 X	3 X	3 X	(2) 2 X
SW-6	836	BOTH SIDES	10d (0.148 DIA)	4	SEE NOTE 5	1/2" DIA LAG SCREW @ 4" O.C.	1/2" X 10 @ 18" O.C.	SEE DETAIL 1	2 X	3 X	3 X	(2) 2 X
SW-7	1200	BOTH SIDES	10d (0.148 DIA)	3	SEE NOTE 5	1/2" DIA LAG SCREW @ 3" O.C.	1/2" X 10 @ 14" O.C.	SEE DETAIL 1	2 X	3 X	3 X	(2) 2 X
SW-8	1540	BOTH SIDES	10d (0.148 DIA)	2	SEE NOTE 5	1/2" DIA LAG SCREW @ 3" O.C.	1/2" X 10 @ 24" O.C.	SEE DETAIL 1	2 X	3 X	3 X	(2) 2 X

**NOTES**

1. ALLOWABLE SHEAR CAPACITY ASSUMES HEM-FIR FRAMING, AND IS BASED ON THE 2018 IBC WITH INCREASES FOR LOAD DURATION. **SW-7 & SW-8 REQUIRES DOUG-FIR FRAMING.**

2. UPON ENGINEERS APPROVAL, 19/32" RATED SHEATHING MAY BE USED WITH NO CAPACITY REDUCTION. O.S. INDICATES ONE SIDE OR WALL TO BE SHEATHED, B.S. INDICATES SHEATHING ON BOTH SIDES.

3. 8d NAILS = 0.131" dia 10d NAILS = 0.148" dia

4. FOR SHEAR WALL TYPES SW-3 AND HIGHER, ALL PANEL EDGE NAILING AND FOUNDATION SILL NAILING SHALL BE STAGGERED.

5. 12" FIELD NAILING FOR STUDS 16" O.C. AND 6" FIELD NAILING FOR STUDS 24" O.C.

6. WHERE LAG SCREWS ARE REQUIRED, SCREW LENGTH MUST BE ADEQUATE TO ENSURE 2-1/4" PENETRATION OF THE LAG INTO THE RIM JOIST BELOW. PRE DRILL WITH 3/16" DIA LEAD HOLE.

7. ADDITIONAL BOTTOM PLATE ANCHORS ARE ONLY REQUIRED AT WALLS DESIGNATED ON PLANS AS PERFORATED SHEAR WALLS. THESE ANCHORS ARE NOT REQUIRED AT FOUNDATION SILL PLATES.

8. ALIGN STRAPS WITH WALL STUDS AND CENTER AT FLOOR SHEATHING.

9. WALLS WITH OUT SHEAR WALL ID SHALL CONFORM SW-1.

10. 3" x 3" x 1/4" GALVANIZED PLATE WASHER IS REQUIRED. EMBED ANCHOR BOLTS 7.5" MINIMUM. REFER TO S-1 TO PRESSURE TREATING NOTES FOR ANCHOR BOLTS IN CONTACT WITH PRESSURE TREATED LUMBER. REFER TO FOUNDATION WALL SILL BOLTING REQUIREMENTS WHERE ANCHOR BOLT SPACING MAY LESS THAN SHOWN PER THIS TABLE.

11. REFER TO HOLD-DOWN TABLE WHERE SHEAR WALL EDGE MEMBERS ARE CONTROLLED BY THE REQ'D HOLD-DOWN. AS A MINIMUM REQUIREMENT, A 3X MEMBER AT HOLD DOWNS SHALL BE USED. WHERE (3) 2 X MEMBERS ARE REQUIRED PER THE HOLD-DOWN TABLE, USE (1) 3 X & (1) 2 X.

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PROJECT NAME: **RAQUEPAU RESIDENCE**

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DWG TITLE: **TYPICAL LATERAL DETAILS**

DATE: \_\_\_\_\_

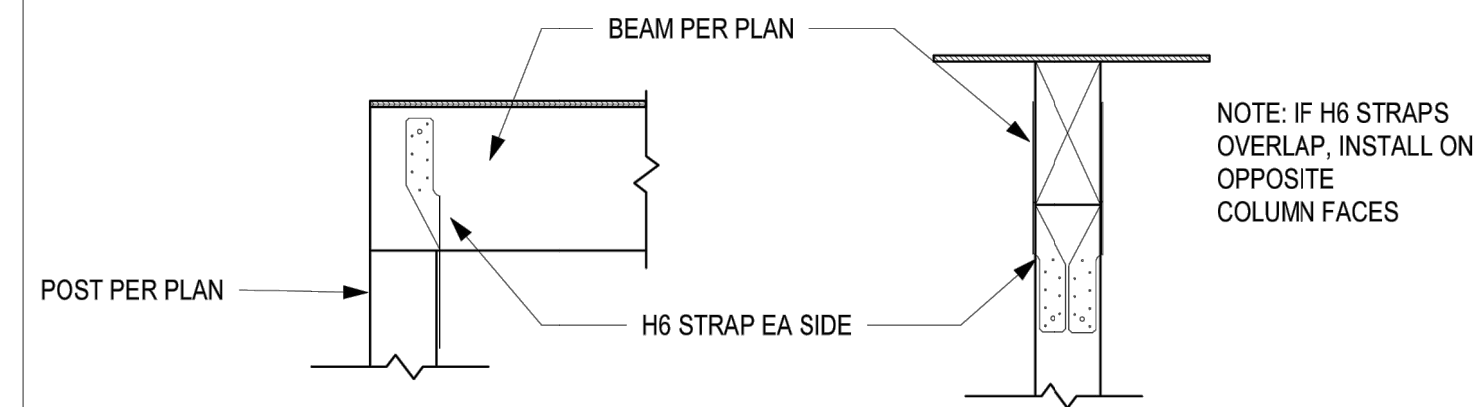
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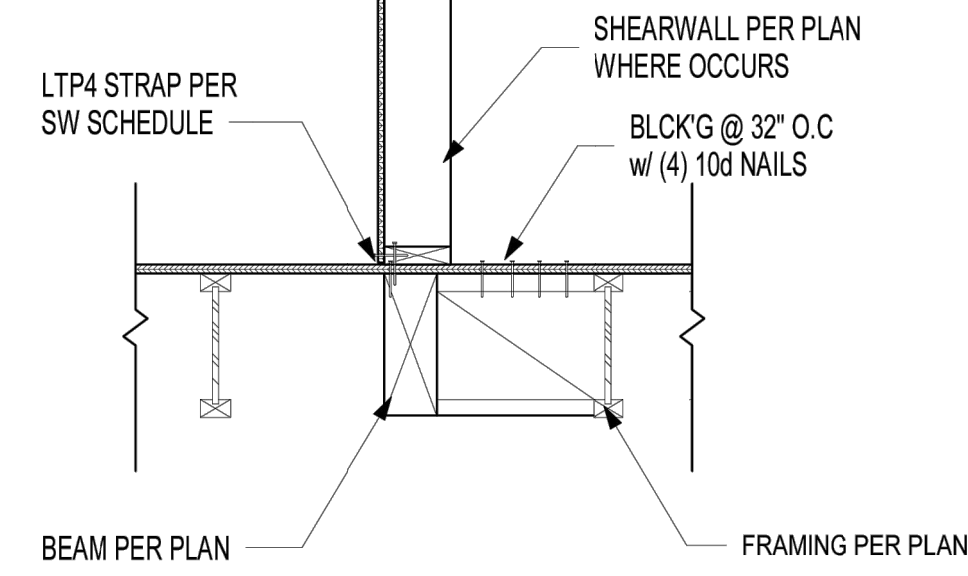
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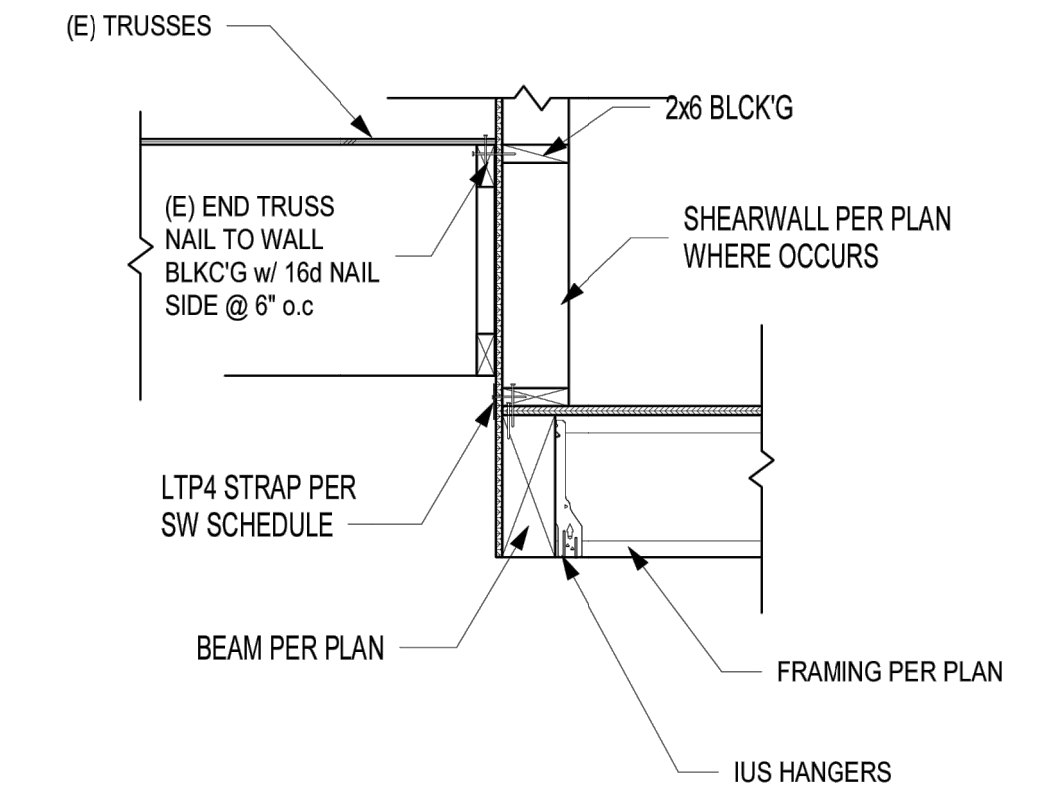
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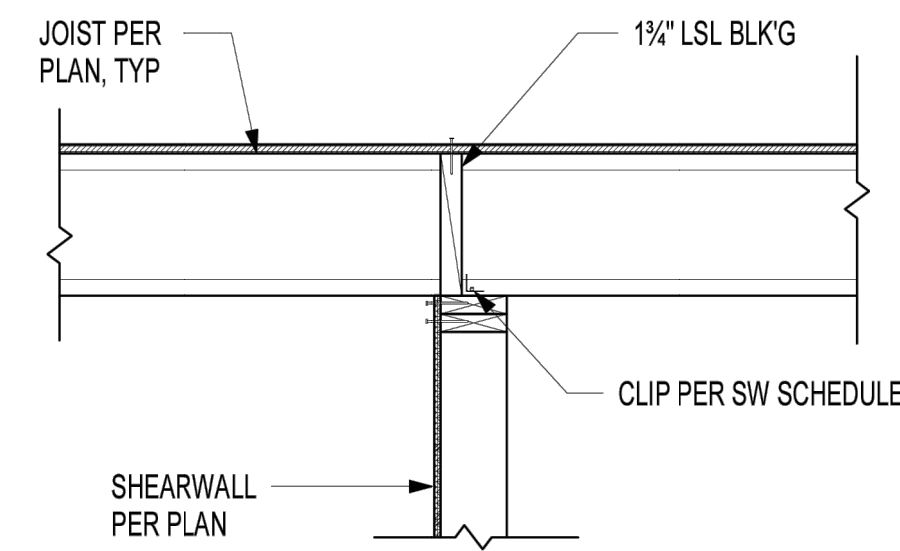
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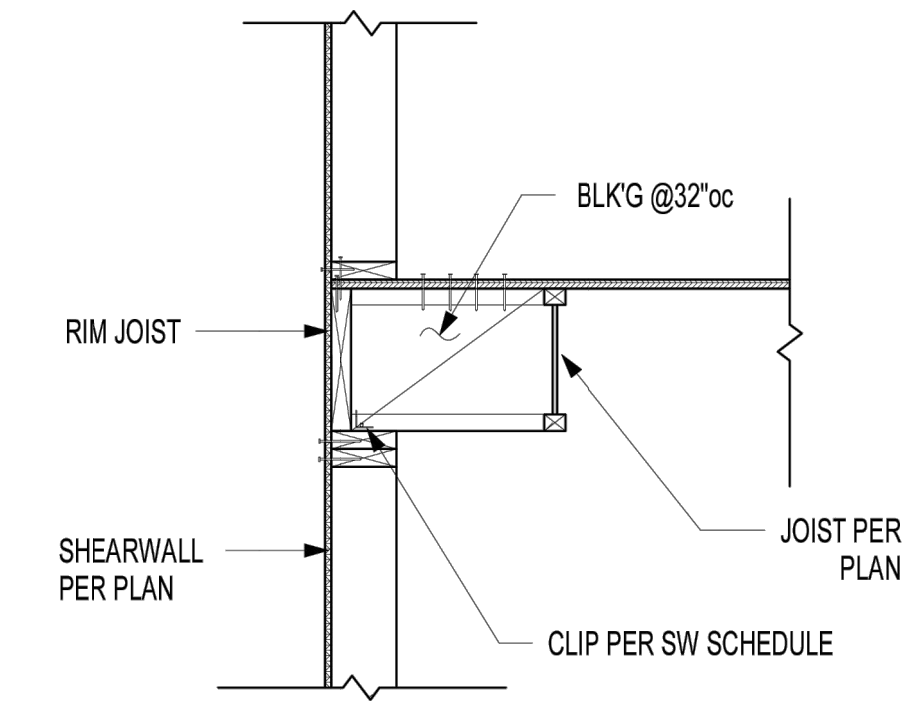
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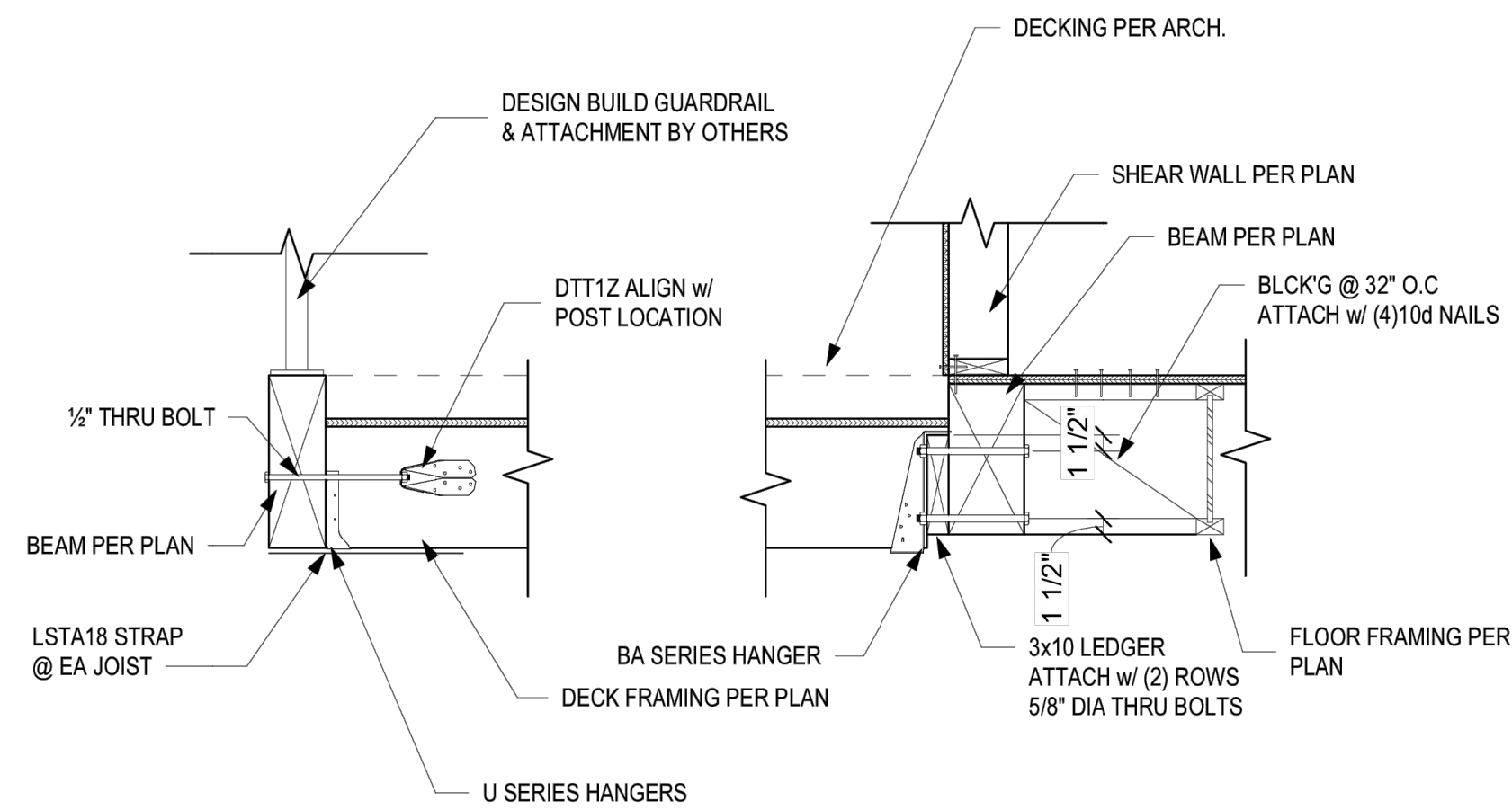
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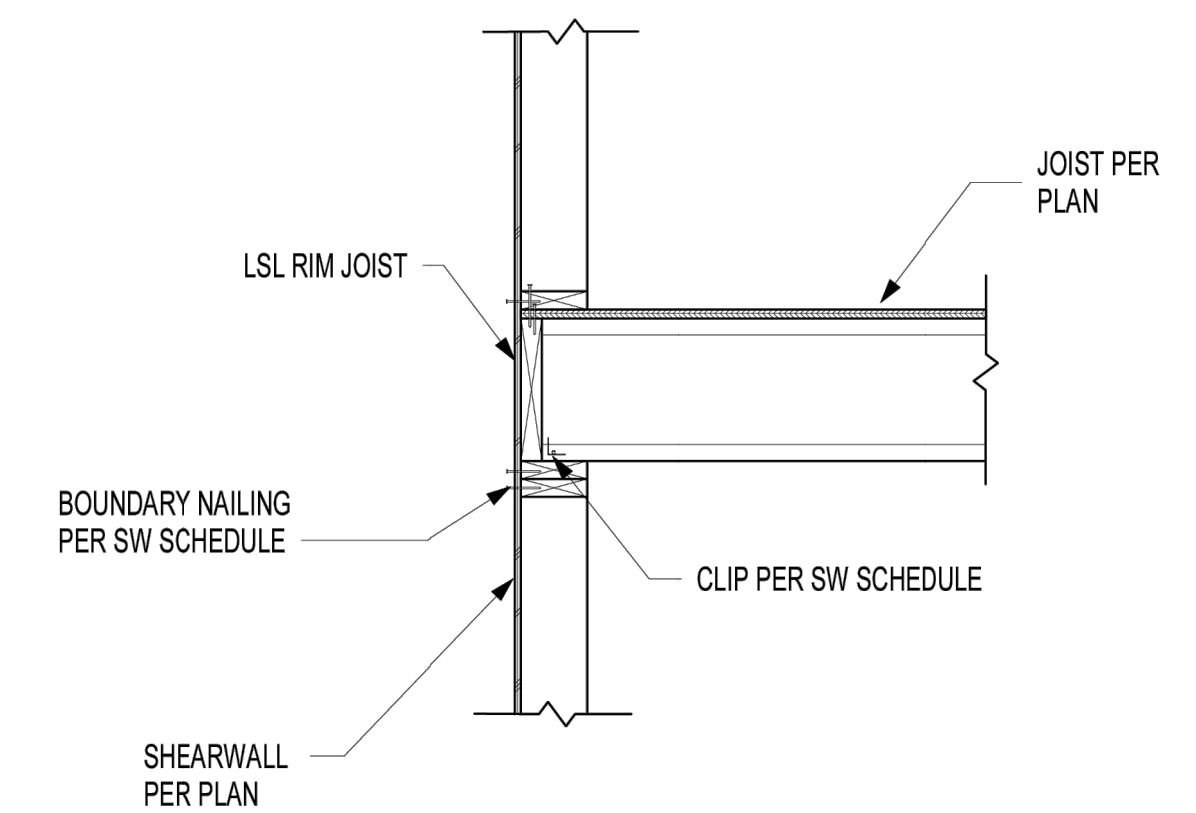
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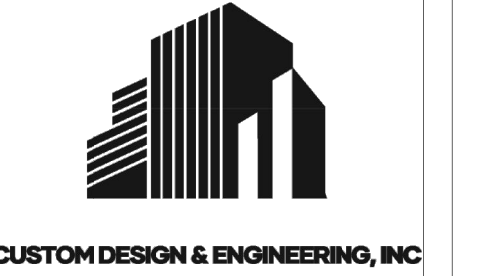
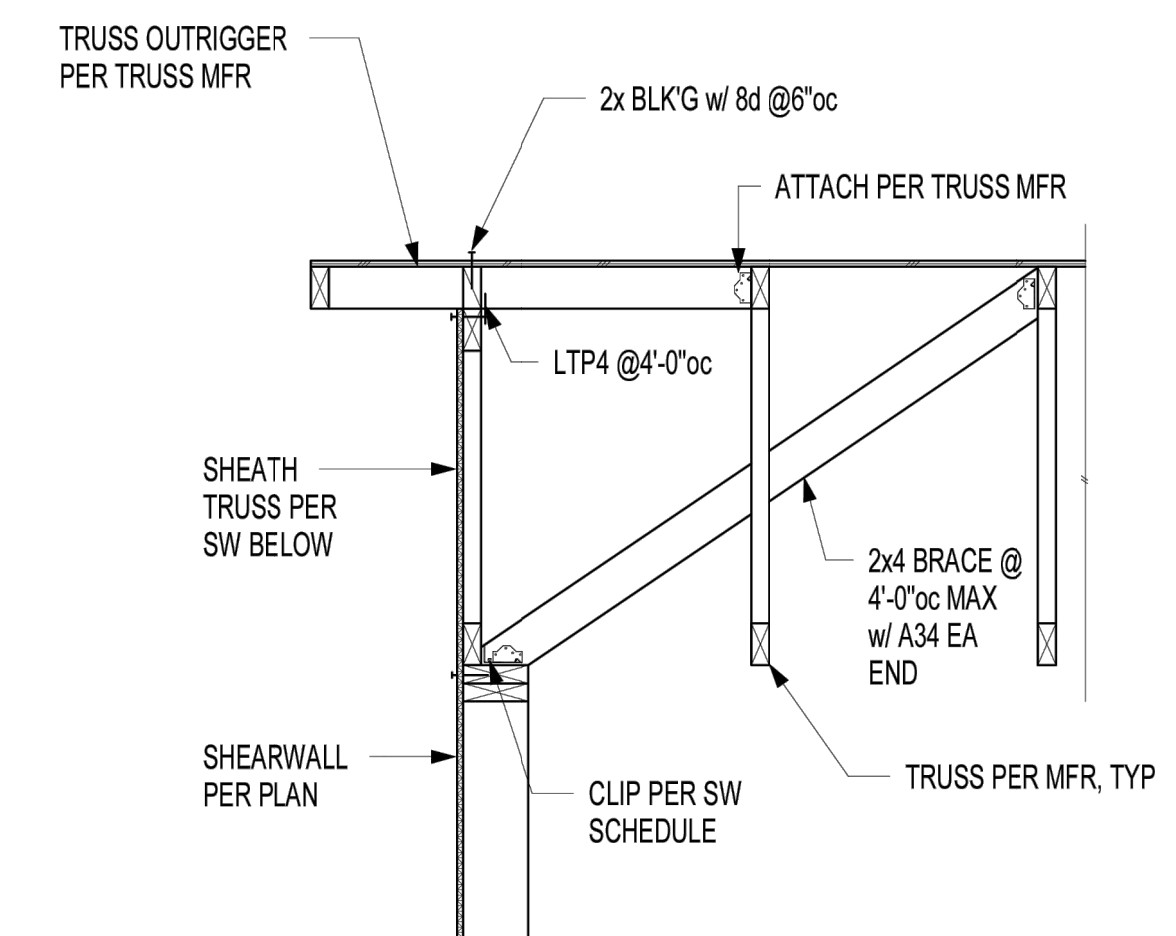
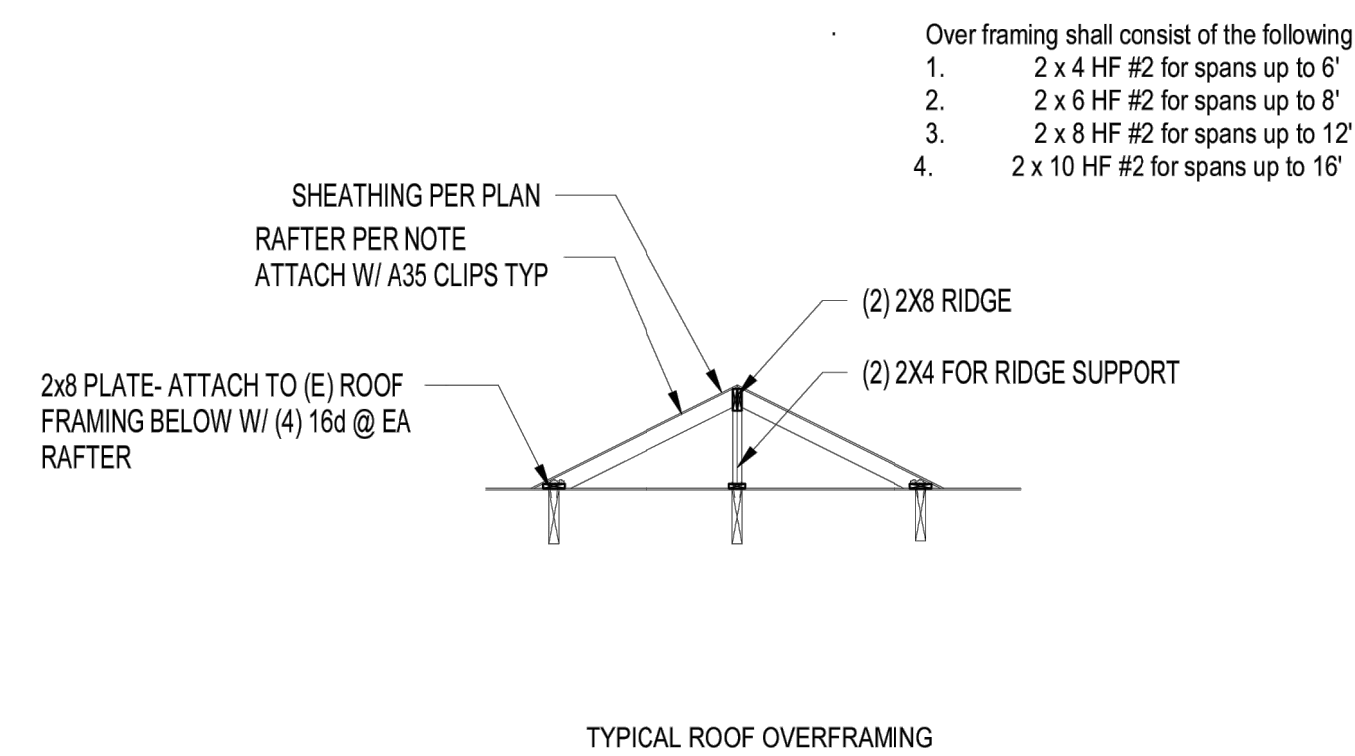
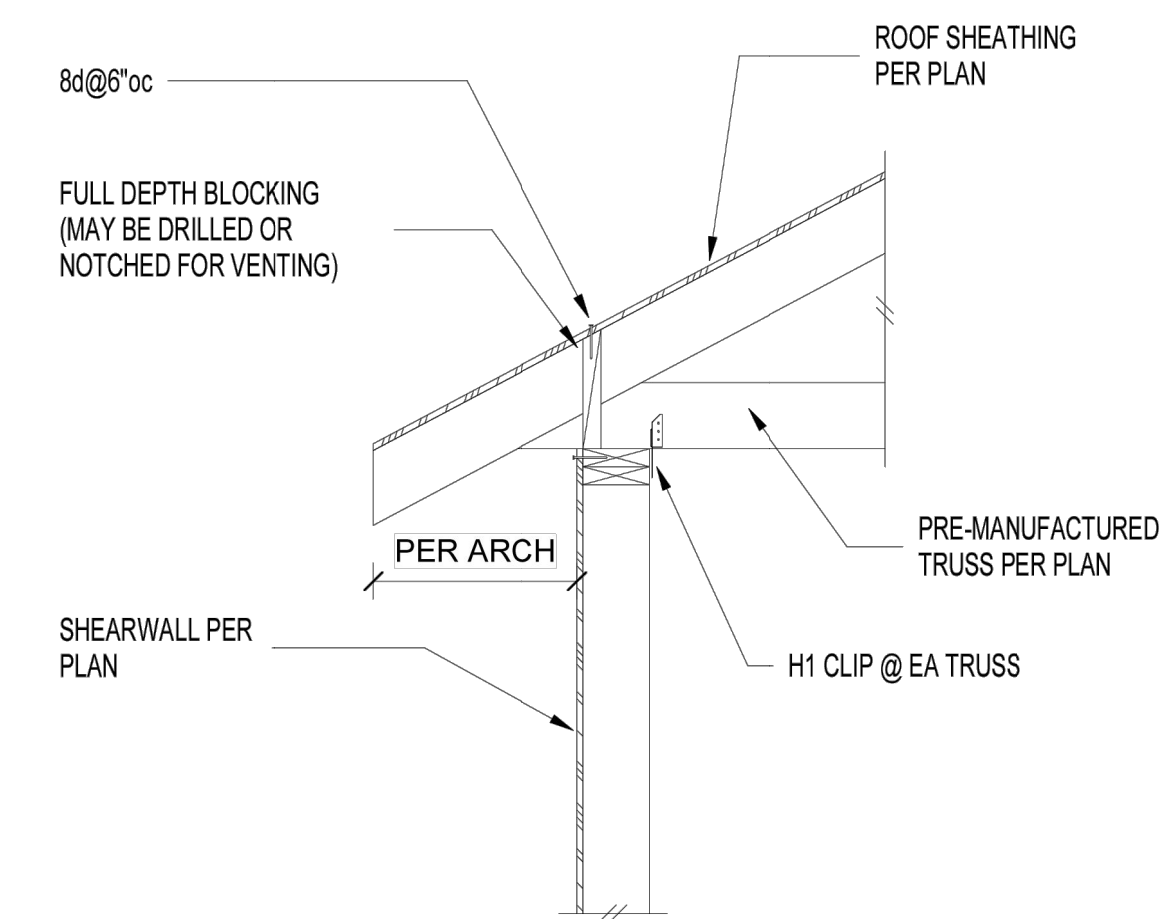
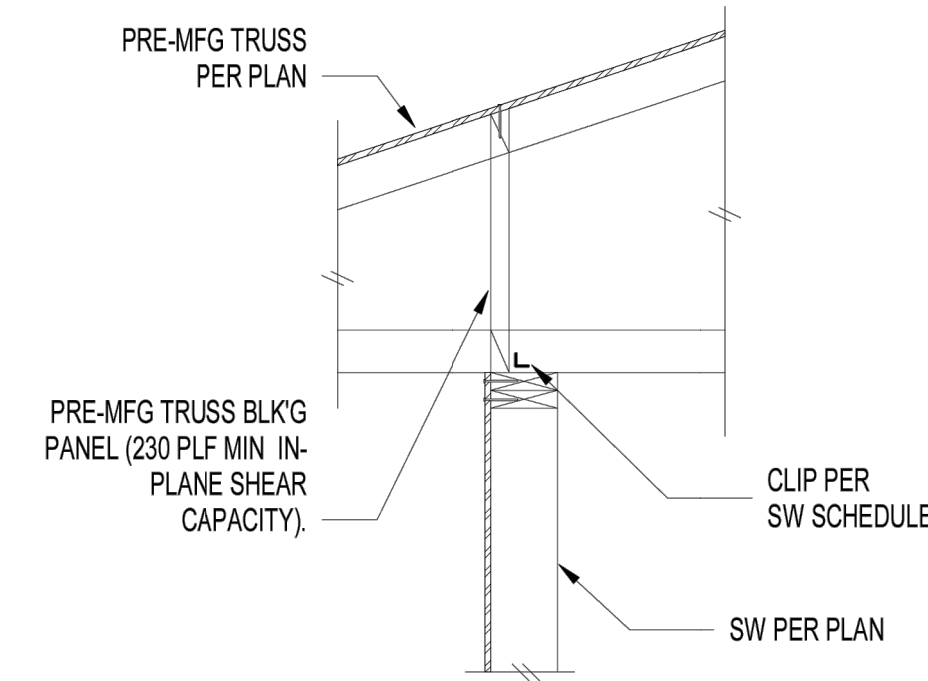
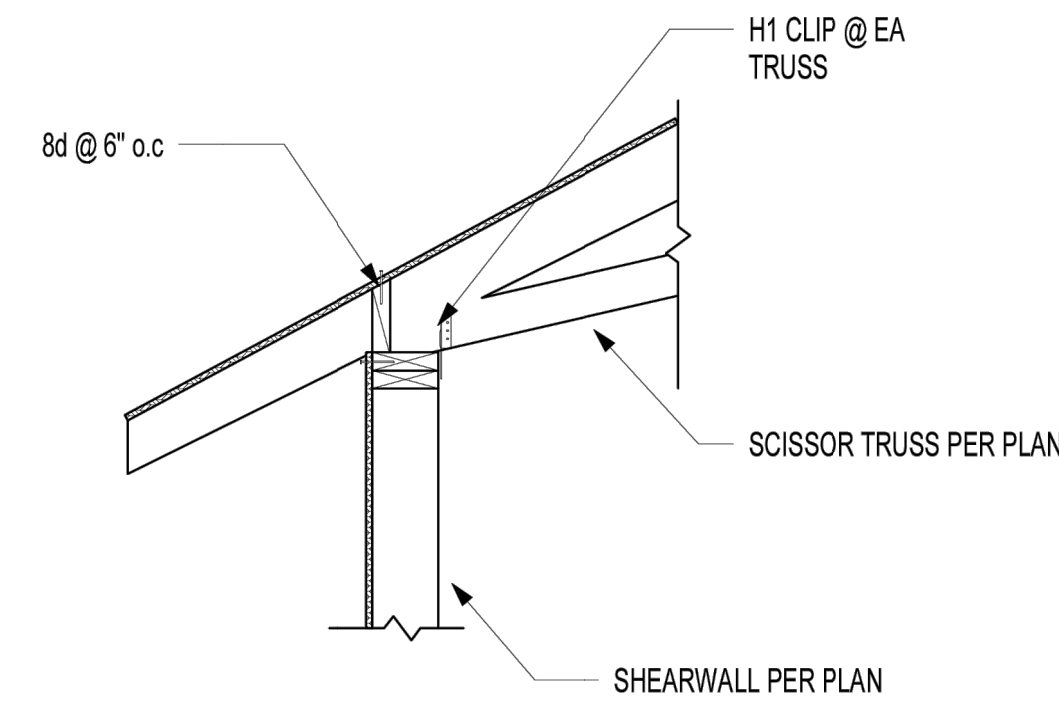
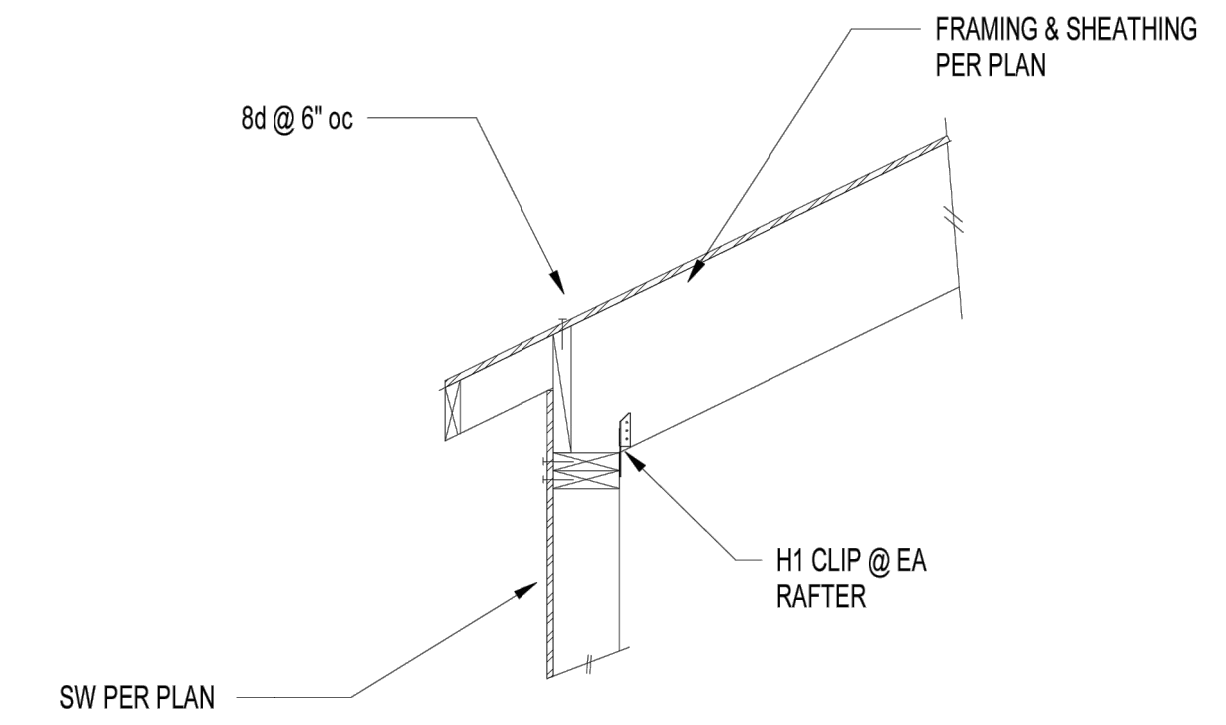
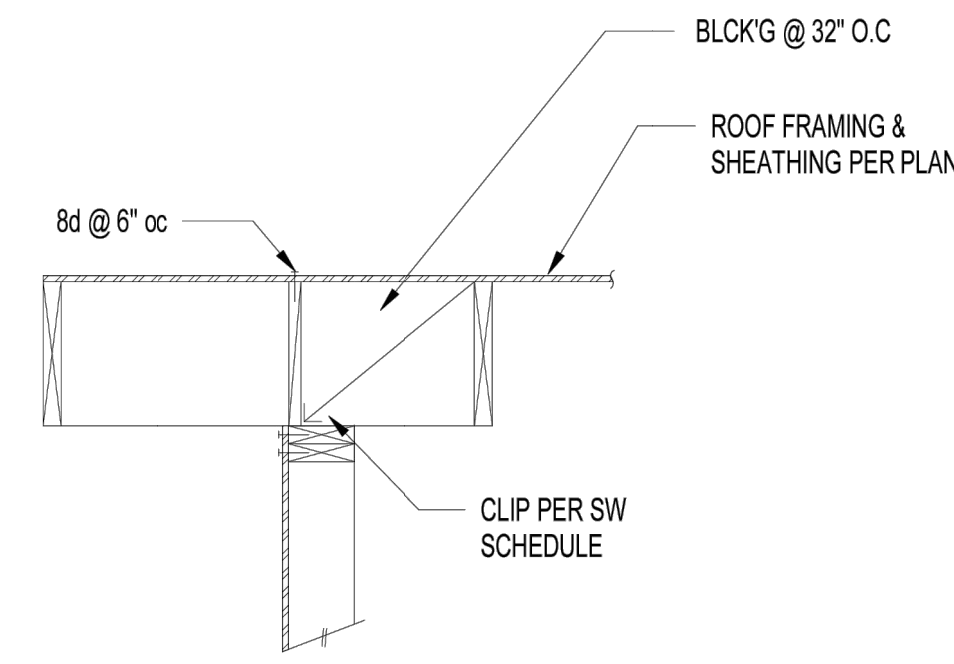
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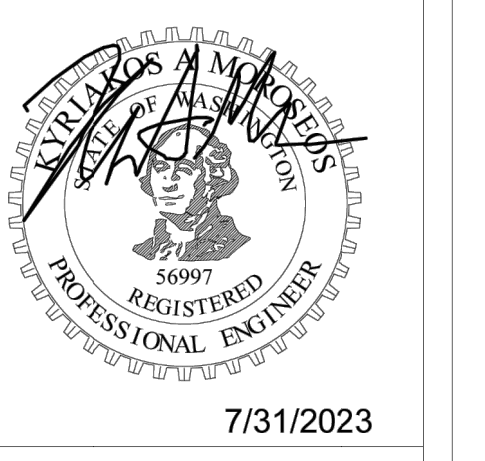
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