





**CITY OF MERCER ISLAND** 

ZONE: MIN. LOT SIZE: MIN. LOT WIDTH: MIN. LOT DEPTH:

MIN. FRONT YARD:

MIN. REAR YARD: MIN. SIDE YARD:

MAX. LOT COVERAGE:

**GROSS FLOOR AREA:** 

MAX. NO. OF STORIES:

**BUILDING HEIGHT:** 

MAX. PROJECTIONS INTO YARDS: 18 Inches

Land clearing, grading, filling, and foundation work are not permitted between October {1st and April 1st on lots such as this one due to the geologic hazards (erosion, potential slide) per MICC 19.07.020. Any work that is proposed during the wet season must submit a Seasonal Development Limitation Waiver for approval by the Building Official. 





# Chapter 19.02 RESIDENTIAL DEVELOPMENT REGULATIONS SUMMARY

R-15 15,000 Square Feet (SF) 90 Feet (FT) 80 FT

20 FT (10 FT for accessory structures per MICC 19.02.040) 25 FT Lot width is 100'; 17% or 17' is cumulative

required side yards; min. 5 FT.

Maximum Impervious Surface Limits for Lots; Sites with slopes between 15% to less than 30% maximum coverage = 35% <u>18,616 x .35% = 6,515 sf</u>

MICC 19.02.020: 12,000 – or 40%: 18,616X.40 = 7,446 (max gross floor area allowed) 5433 Proposed

30' from base elevation, 30' max downhill facade

8243 W. Mercer Way Mercer Island, WA 98040

OWNER HU WEN + LI CHINAN c/o Mei Young 11900 NE 1st Street, Suite 3083 Bellevue, WA 98005

CITY OF MERCER ISLAND PROJECT NUMBER:

Project Number:

PRE-010 (Pre-application meeting project number).

TAX PARCEL NUMBERS:

3358500454

### LEGAL DESCRIPTION:

TRACTS 498, 499, 500, 501 AND 574, C.D. HILLMAN'S SEA SHORE LAKE FRONT GARDEN OF EDEN ADDITION TO THE CITY OF SEATTLE, ACCORDING TO THE PLT THEREOF RECORDED IN VOLUME 12 OF PLATS, PAGE 44, IN KING COUNTY, WASHINGTON

EXCEPT THAT PORTION OF SAID TRACT 574 LYING NORTHEASTERLY OF A LINE PARALLEL WITH AND DISTANT 270 FEET FROM (AS MEASURED AT RIGHT ANGLES TO) THE SOUTHWESTERLY LINE OF THE PRESENT ALIGNMENT OF WEST MERCER WAY (HAVING A RIGHT ANGLE WIDTH OF 60 FEET) TOGETHER WITH SECOND CLASS SHORELANDS ADJOINING; AND TOGETHER WITH ANY UNPLATTED UPLANDS, LYING BETWEEN SAID TRACTS AND THE SHORELANDS ADJOINING; ALSO TOGETHER WITH THE NORTHEASTERLY 270 FEET OF THAT PORTION OF TRACT 574, C.D. HILLMAN'S SEA SHORE LAKE FRONT GARDEN OF EDEN ADDITION TO THE CITY OF SEATTLE, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 12 OF PLATS, PAGE 44, IN KING COUNTY, WASHINGTON, LYING SOUTHWESTERLY OF THE PRESENT ALIGNMENT OF WEST MERCER WAY (HAVING A RIGHT ANGLE WIDTH OF 60 FEET), EXCEPT THE NORTHEASTERLY 150 FEET OF THE SOUTHEASTERLY 80 FEET THEREOF.

### **DESCRIPTION:**

NEW SINGLE FAMILY HOME ON EXISTING VACANT LOT. EXISTING LOT IS APPROXIMATELY 18,616 SQUARE FEET AND THE PROPOSED SINGLE FAMILY HOME IS 3 LEVELS WITH APPROXIMATELY 5433 GROSS SQUARE FEET





### OWNER

HU WEN + LI CHINAN c/o Mei Young 11900 NE 1st Street, Suite 3083 Bellevue, WA 98005 425.214.7348 email: mei@myirealestate.com

### ARCHITECT

Peter Bocek (Principal) Michael Shreve (Project Manager) PB Architects Inc., P.S. 617 8th Ave S Seattle, WA 98104 206.443.9790 pbocek@pbarch.com e-mail: e-mail: mshreve@pbarch.com

### **CIVIL ENGINEER**

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Stevenson, WA 98648-4201

425.881.5904 tel:

### STRUCTURAL ENGINEER

Todd Phillips Phillips Structural Engineering P.O.Box 108 Milton, WA 98354 tel: 425.233.6088 e-mail: todd@phillipsse.com

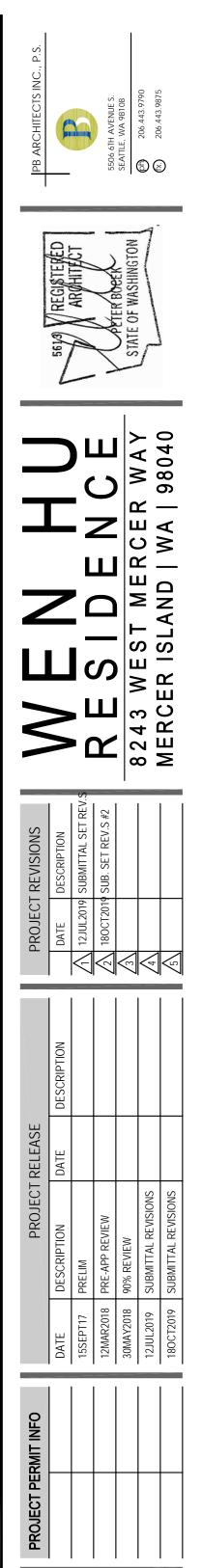
SURVEYOR Danny Slager Terrane 10801 Main Street, Suite 102 Bellevue, WA 98004 000.000.0000 tel: e-mail: dannys@terrane.net

### ARBORIST

Jennifer Wells Washington Tree Experts 16732 Broadway Ave. Snohomish, WA 98296 tel: 206-362-3380 e-mail: wtetree@yahoo.com

## DIRECTORY OF CONTACTS

INDEX T-1.01 T-1.02	ARCHITECTURAL DATE OF LA PROJECT OVERVIEW PROJECT NOTES	AST ISSUANCE 10/18/19 10/18/19
1 of 1	SURVEY	10/18/19
A-1.00 A-1.01 A-1.02 A-1.03	SITE PLAN STEEP SLOPE PLAN TREE PLAN HARDSCAPE & COVERAGE	10/18/19 10/18/19 10/18/19 10/18/19
A-2.00 A-2.01 A-2.02 A-2.03 A-2.04	FOUNDATION PLAN FLOOR PLAN - BASEMENT FLOOR PLAN - MAIN FLOOR PLAN - SECOND ROOF PLAN	10/18/19 10/18/19 10/18/19 10/18/19 10/18/19
A-4.01 A-4.02	ELEVATIONS - EAST & WEST ELEVATIONS - NORTH & SOUTH	10/18/19 10/18/19
A-5.01 A-5.02 A-5.03	SECTION A-A SECTION B-B SECTION D-D	10/18/19 10/18/19 10/18/19
A-6.01 A-6.02	SCHEDULES ENERGY CODE	10/18/19 10/18/19
A-7.01 A-7.02 A-7.03 A-7.04	DETAILS DETAILS - STAIRS DETAILS - WEATHERPROOFING DETAILS - MANUFACTURERS	10/18/19 10/18/19 10/18/19 10/18/19
INDEX		AST ISSUANCE
S-0 S-1 S-2 S-3	GENERAL NOTES FOUNDATION PLAN BASEMENT FLOOR FRAMING BASEMENT SHEAR WALLS,	10/18/19 10/18/19 10/18/19
S-4 S-5	HOLDOWNS, AND STRUCTURE MAIN FLOOR FRAMING MAIN FLOOR SHEAR WALLS,	10/18/19 10/18/19
S-6 S-7	HOLDOWNS, AND STRUCTURE SECOND FLOOR FRAMING SECOND FLOOR SHEAR WALLS,	10/18/19 10/18/19
S-8 SD-1 SD-2 SD-3	HOLDOWNS, AND STRUCTURE ROOF FRAMING STRUCTURAL DETAILS STRUCTURAL DETAILS STRUCTURAL DETAILS	10/18/19 10/18/19 10/18/19 10/18/19 10/18/19
INDEX		AST ISSUANCE
C-1 C-2 C-3 C-4 C-5	T.E.S.C. PLAN T.E.S.C. PLAN DRAINAGE PLAN DRAINAGE PLAN DETAILS	10/09/19 10/09/19 10/09/19 10/09/19 10/09/19
INDEX W-1	ARBORIST DATE OF LA PLANTING PLAN AND DETAILS	AST ISSUANCE 08/15/19
INDEX S-1.01 S-2.01 S-2.02 S-6.01	GARAGE STRUCTURAL DATE OF LA STRUCTURAL NOTES GARAGE FOUNDATION PLAN GARAGE ROOF FRAMING PLAN TYPICAL CONCRETE DETAILS	AST ISSUANCE 09/17/19 09/17/19 09/17/19 09/17/19
INDEX SS1.0	SHORING DATE OF LA	AST ISSUANCE 09/17/19
SS2.0 SS3.0 SS4.0	SHORING NOTES SHORING & EXCAVATION PLAN SHORING ELEVATIONS SHORING DETAILS	09/17/19 09/17/19 09/17/19 09/17/19
$\overline{1}$ D	RAWING INDEX	





### GENERAL NOTES

- BUILDING CODE: INTERNATIONAL RESIDENTIAL CODE (IRC) 2015. ALL WORK SHALL COMPLY WITH THE APPLICABLE CODES FOR CITY, COUNTY, AND STATE.
- 2. UNDER SEPARATE PERMIT: MECHANICAL
- PLUMBING
- ELECTRICAL 3. SPECIAL INSPECTIONS:
- PER CITY REQUIREMENTS PER GEOTECHNICAL REPORT REQUIREMENTS
- PER STRUCTURAL REQUIREMENTS.
- 4. THE CONSTRUCTION DOCUMENTS, OF WHICH THESE DRAWINGS ARE A PART OF, ARE CONCEPTUAL IN NATURE. THEY SCHEMATICALLY 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 OF RECORD. THE CONSTRUCTION DOCUMENTS ARE NOT INTENDED TO BE A COMPLETE SET OF INSTRUCTIONS ON HOW TO CONSTRUCT THE BUILDING.
- 5. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR ACCURACY OF THE ENGINEERING DATA SUPPLIED BY OTHERS. 6. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS AMONG ALL DRAWINGS PRIOR TO
- CONSTRUCTION. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED LENGTHS AND HEIGHTS. 7. IN THE EVENT OF DISCREPANCIES OR CONTRADICTORY INFORMATION ON THE DRAWINGS OR IN THE NOTES OR IN THE SPECIFICATIONS OR ANY OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS, IT IS THE OBLIGATION OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF THE DISCREPANCIES AND TO OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. ANY WORK DONE BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE CONTRACTOR'S RISK.
- ALL CONTRACT DOCUMENTS ARE TO BE CONSIDERED AND INTERPRETED FOR BIDDING AND CONSTRUCTION PURPOSES AS A COMPLETE WHOLE. NO PART OF THE CONTRACT DOCUMENTS SHALL BE DISTRIBUTED, CONSIDERED OR USED IN ANY WAY INDEPENDENT OF THE COMPLETE SET OF DOCUMENTS.
- 9. THE ARCHITECT SHALL HAVE FINAL AUTHORITY WITH REGARDS TO INTERPRETATION OF THE INTENT AND SPIRIT OF THE CONTRACT DOCUMENTS. 10. WHEN USED IN THESE DOCUMENTS, THE TERM "ALIGN" MEANS TO ACCURATELY CONSTRUCT SO THAT THE FINISHED
- SURFACES ARE IN THE SAME PLANE. THE TERM "TYPICAL", ABBREVIATED "TYP.", MEANS THAT THE CONDITION IS REPRESENTATIVE OF OTHER CONDITIONS ON THE PROJECT. THE TERM "SIMILAR", ABBREVIATED "SIM.", MEANS THAT THE CONDITION IS COMPARABLE TO THE CONDITION REFERENCED. SEE THE PLANS, ELEVATIONS, AND SECTIONS FOR ACTUAL DIMENSIONS, LOCATION AND ORIENTATION. THE TERM "PROVIDE" MEANS TO SUPPLY, INSTALL, AND FINISH A PRODUCT OR MATERIAL IN ITS ENTIRETY. THE TERM "SUBMIT" MEANS TO SUBMIT ITEM FOR REVIEW AND APPROVAL PRIOR TO ORDERING, MANUFACTURING, OR INSTALLING THAT ITEM.
- 11. THE CONTRACTOR SHALL CONSIDER THE GEOTECHNICAL REPORT (WHERE APPLICABLE) AS A PART OF THE CONTRACT DOCUMENTS AND SHALL REVIEW AND FOLLOW ALL RECOMMENDATIONS AND REQUIREMENTS SET FORTH IN THE REPORT. IN THE EVENT THAT THERE ARE CONFLICTING REQUIREMENTS BETWEEN THE GEOTECHNICAL REPORT AND THE PLANS, DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING AND AWAIT THE ARCHITECT'S DIRECTION PRIOR TO PROCEEDING WITH THE WORK. ARCHITECTS ASSUMES NO RESPONSIBILITY AS TO WHAT THE PHYSICAL PROPERTIES AND CHARACTERISTICS OF THE SOILS ARE ON THE SITE. THIS ARCHITECT ASSUMES THAT ALL INFORMATION PROVIDED BY OTHER PROFESSIONALS IS CORRECT AND ACCURATE.
- A. COVER WITH PLASTIC, CUT SLOPES AND SOIL STOCKPILES DURING WET WEATHER. B. CONTRACTOR TO MONITOR ADJACENT STRUCTURES DURING CONSTRUCTION TO DETECT SOIL MOVEMENTS. C. WHERE REQUIRED THE GEOTECH ENGINEER SHALL PROVIDE GEOTECHNICAL CONSULTATION, TESTING, AND OBSERVATION SERVICES DURING CONSTRUCTION. GEOTECH IS CONTRACTED WITH OWNER AND OWNER IS RESPONSIBLE FOR PAYMENT OF GEOTECH'S FEES.
- D. IF SOILS ARE FOUND TO BE OTHER THAN INDICATED IN THE GEOTECHNICAL REPORT OR ASSUMED CONDITIONS NOTIFY THE ARCHITECT, GEOTECHNICAL ENGINEER AND STRUCTURAL ENGINEER FOR POSSIBLE FOUNDATION REDESIGN.
- E. SILT FENCING, TEMPORARY CONSTRUCTION EROSION CONTROL MEASURES, TREE PROTECTION FENCING AND STEEP SLOPE/SENSITIVE AREA PROTECTION FENCING PER LOCAL STANDARDS. CONTRACTOR SHALL MAINTAIN EROSION CONTROL SYSTEM FOR DURATION OF CONSTRUCTION.
- F. CLEARING AND GRUBBING, AS REQUIRED PER SITE PLAN. SELECTIVE PROTECTION OF EXISTING SIGNIFICANT TREES, PER OWNER. COORDINATE WITH OWNER PRIOR TO CLEARING AND GRUBBING. PROTECT EXISTING TREES DURING THE COURSE OF CONSTRUCTION.
- G. PROVIDE EXCAVATION, FREE-DRAINING BACKFILL AND FILL MATERIALS AS REQUIRED. BACKFILL SUB-GRADE TO 12" BELOW FINISH GRADE UNLESS NOTED OTHERWISE. ALL STRUCTURAL BACKFILL SHALL BE IMPORTED, UNLESS OTHERWISE ALLOWED BY GEOTECH ENGINEER.
- H. EXCAVATION BASED ON DRAWINGS. NOTE ANY REQUIRED OVER-EXCAVATION REQUIRED FOR STANDARD HOUSE FOUNDATION WALLS/FOOTINGS PER THE SOILS REPORT, DEPTHS FOR OVER-EXCAVATION BASED ON SOILS REPORT BORING FINDINGS
- 12. THE CONTRACTOR SHALL ASSUME THAT THE SAME FINISH MATERIAL SHALL BE USED FOR ALL SURROUNDING ABUTTING, AND ADJOINING SURFACES FOR AREAS AND ITEMS NOTED ON THE DRAWINGS, INCLUDING BUT NOT LIMITED TO THE INTERIOR ELEVATIONS AND DETAILS, UNLESS NOTED OTHERWISE. AT NO TIME SHALL THE CONTRACTOR CONSIDER, BID OR INSTALL A DIFFERENT MATERIAL OR A MATERIAL OF LESSER QUALITY OR TYPE THAN THAT WHICH IS INDICATED ON THE DRAWINGS, SPECIFICATION SHEET OR THE PROJECT MANUAL. IN THE EVENT THAT THERE ARE CONFLICTING REQUIREMENTS OR QUESTIONS RELATING TO THE SPECIFIC MATERIALS TO BE USED OR THE INTERFACE WITH ADJOINING MATERIALS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING AND AWAIT THE ARCHITECT'S DIRECTION PRIOR TO BIDDING AND PROCEEDING WITH THE WORK. 13. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES
- REQUIRED TO PERFORM THE WORK. 14. CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER
- OF RECORD FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT
- 15. THE CONTRACTOR IS RESPONSIBLE FOR ALL BRACING AND SHORING DURING CONSTRUCTION, AS WELL AS ALL SAFETY PRECAUTIONS. THE CONTRACTOR SHALL COMPLY WITH ALL O.S.H.A. AND W.I.S.H.A. HEALTH AND SAFETY STANDARDS. 16. THE CONTRACTOR SHALL MAKE AVAILABLE THE JOB SITE, THE BUILDING UNDER CONSTRUCTION, AND ALL RELATED STRUCTURES AND AREAS TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD AND THE OWNER OR THEIR
- ASSIGNED REPRESENTATIVES AT ALL TIMES DURING THE NORMAL AND ACCEPTED WORK DAY. 17. THE CONTRACTOR SHALL COORDINATE ALL SUB-CONTRACTORS AND WORK FOR THE PROJECT IN SUCH A METHOD AS TO ALLOW CONSISTENT AND REASONABLE PROGRESS TOWARDS COMPLETION OF THE PROJECT IN A TIMELY MANNER
- AND TO MEET ALL THE REQUIREMENTS OF THESE DOCUMENTS AND APPLICABLE CODES. 18. ALL DIMENSIONS ARE TO FACE OF STUDS OR CONCRETE UNLESS INDICATED OTHERWISE ON THE PLANS. WINDOWS AND DOORS ARE DIMENSIONED TO THE CENTER OF THE OPENING UNLESS NOTED OTHERWISE.
- 19. SITE DRAINAGE SHALL CONFORM TO ALL LOCAL REGULATIONS, CODES AND ORDINANCES AND TO APPLICABLE IBC/IRC CODES. ALL ROOF DRAINS, FOUNDATION DRAINS AND SITE DRAINAGE SYSTEMS TO BE TIGHT-LINED UNDERGROUND TO THE MUNICIPAL STORM SEWER OR AN APPROVED STORM WATER COLLECTION SYSTEM WHEN MUNICIPAL STORM SEWERS ARE NOT AVAILABLE OR WHEN LOCAL REGULATIONS REQUIRE. DO NOT CONNECT THE ROOF DRAINS OR OTHER SITE DRAINAGE SYSTEMS TO THE FOUNDATION AND RETAINING WALL PERIMETER FOOTING DRAINS. FINISH GRADING TO HAVE A POSITIVE SLOPE AWAY FROM THE BUILDING AND SHALL FALL A MINIMUM OF 6" WITHIN THE FIRST 10'-0". ALL SITE HARD SURFACES TO HAVE A MINIMUM SLOPE TO DRAINAGE SYSTEMS OF 1/4" PER FOOT FOR ASPHALT AND 1/8"PER FOOT FOR CONCRETE UNLESS NOTED OTHERWISE ON THE PLANS.
- 20. PROVIDE CONTINUOUS 6" ROUND RIGID PERFORATED PERIMETER FOOTING DRAIN IN GRAVEL FILL WITH FILTER FABRIC WRAP AT THE EXTERIOR FACE OF ALL FOUNDATION WALL FOOTINGS. LOCATE THE BOTTOM OF THE DRAINPIPE AT THE LOWEST POINT OF WALL FOOTING AND INSTALL PER THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND THE PLANS AND DRAWINGS. IN THE EVENT THAT THERE ARE CONFLICTING REQUIREMENTS IN THE GEOTECHNICAL REPORT AND THESE DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING AND AWAIT THE ARCHITECT'S DIRECTION PRIOR TO PROCEEDING WITH THE WORK. AS A MINIMUM, ALL WORK SHALL CONFORM TO APPLICABLE IBC/IRC CODES. PROVIDE CAPPED 4" CLEANOUT RISERS TO DAYLIGHT AT FINISHED GRADE AS REQUIRED BY LOCAL MUNICIPAL REGULATIONS AND CODE. WHEN LOCAL REGULATIONS DO NOT DICTATE CLEANOUT REQUIREMENTS, PROVIDE CLEANOUTS AT REGULAR INTERVALS, BUT DO NOT EXCEED 180 DEGREES OF BENDS BETWEEN CLEANOUTS. TIGHT-LINE ALL THE PERIMETER DRAINS TO THE MUNICIPAL STORM SEWER SYSTEM OR TO AN APPROVED DISCHARGE WHEN STORM SEWERS ARE NOT AVAILABLE OR WHEN LOCAL REGULATIONS REQUIRE - SEE GENERAL NOTE #16. DO NOT CONNECT THE PERIMETER DRAIN OR PERIMETER DRAIN TIGHT LINE TO ANY OTHER DRAINAGE TIGHT LINES OR SITE DRAINAGE SYSTEMS.
- 21. CONNECT ALL DOWNSPOUTS AND ROOF DRAINAGE LINES TO A 6" ROUND RIGID ROOF DRAIN TIGHT-LINE. CONNECT THE TIGHT-LINE TO THE MUNICIPAL STORM SEWER SYSTEM OR TO AN APPROVED DISCHARGE WHEN STORM SEWERS ARE NOT AVAILABLE OR WHEN LOCAL REGULATIONS REQUIRE- SEE GENERAL NOTE #16. PROVIDE CAPPED RISERS AT ALL DOWNSPOUTS AND ROOF DRAINAGE LINES. SEE THE DRAWINGS FOR DOWNSPOUT (DS) LOCATIONS. DO NOT INTERCONNECT THE ROOF DRAINAGE TIGHT-LINE WITH ANY OTHER DRAINAGE TIGHT LINES OR SITE DRAINAGE SYSTEMS
- 22. PROVIDE A 6" THICK LAYER OF COMPACTED GRAVEL FILL, SUCH AS CRUSHED ROCK, UNDER ALL INTERIOR CONCRETE SLAB-ON-GRADE FLOORS. PROVIDE A 6 MIL VAPOR RETARDER OVER THE GRAVEL FILL. PROTECT THE VAPOR RETARDER FROM PERFORATION AND DAMAGE. PROVIDE A 4" THICK LAYER OF COMPACTED GRAVEL FILL UNDER ALL EXTERIOR CONCRETE SLABS WHERE MOTOR VEHICLES ARE NOT NORMALLY PARKED OR DRIVEN ON. FOR MOTOR COURTS, DRIVEWAYS, VEHICLE PARKING AREAS AND ALL OTHER EXTERIOR CONCRETE SLABS WHERE MOTOR VEHICLES MAY BE USED, PROVIDE A 6" THICK LAYER OF COMPACTED GRAVEL FILL UNDER THE CONCRETE SLAB.



- UNLESS NOTED OTHERWISE IN GEOTECHNICAL REPORT.
- CORPORATION OR EQUAL.
- UNLESS NOTED OTHERWISE
- 12" CLEAR. SPECIFICATION M-4.
- SPACE POSTS THAT ARE CONNECTED TO THEIR FOOTINGS WITH POST BASES.
- CONFORM TO APPLICABLE IBC/IRC CODES.
- MATERIAL AND SHALL HAVE NO OPENINGS INTO THE GARAGE. REQUIREMENTS OF THE GYPSUM ASSOCIATION FILE #WP 3514.
- HABITABLE SPACES OF THE HOUSE AND THE GARAGE.
- 34. ALL UNDER FLOOR AREAS WITHIN THE PERIPHERY OF THE FOUNDATION SHALL BE ACCESSIBLE BY AN UNOBSTRUCTED MINIMUM CLEAR OPENING OF 18" X 24".
- OF 30" OR GREATER FROM THE TOP OF THE CEILING JOIST TO THE BOTTOM OF THE RAFTERS. THE BUILDING.
- REQUIREMENTS
- THERMAL INSULATION STANDARDS.
- NOT LIMITED TO PARAPET WALLS, BUILDING WALLS, ETC.
- CONFORM TO APPLICABLE IBC/IRC CODES.
- APPROVED BY THE ARCHITECT PRIOR TO PLUMBING WORK COMMENCING.
- SPECIFIED, APPROVAL OF THE PROPOSED FINISH BY THE ARCHITECT IS REQUIRED PRIOR TO FABRICATION AND INSTALLATION.

23. APPROVED GRAVEL FILL CONSISTS OF WASHED, CLEAN, FREE DRAINING GRAVEL RANGING FROM 1/4" TO 3/4" IN SIZE,

24. APPLY WATERPROOFING TO THE EXTERIOR OF ALL CONCRETE FOUNDATION WALLS FROM TOP OF FOOTING TO FINISH GRADE. UNLESS NOTED OTHERWISE, WATERPROOFING SHALL BE "GREYWALL", MANUFACTURED BY RUBBER POLYMER

25. ALL EXTERIOR FRAME WALLS TO BE 2X6 STUDS AT 16" O.C. PER THE STRUCTURAL NOTES OF THESE DOCUMENTS,

26. WOOD FRAMED FLOOR SYSTEMS THAT SPAN OVER CRAWL SPACES, UNEXCAVATED AREAS, OR OTHER AREAS OF EXPOSED GROUND WITHIN THE PERIPHERY OF THE BUILDING FOUNDATION SHALL MAINTAIN THE FOLLOWING MINIMUM CLEARANCES FROM THE BOTTOM OF THE WOOD MEMBER TO THE GROUND: JOISTS- 18" CLEAR; BEAMS OR GIRDERS-

27. EXTERIOR WOOD FRAMED TRELLISES AND OTHER WOOD FRAMED STRUCTURES EXPOSED TO WEATHER SHALL BE CONSTRUCTED OF CEDAR, REDWOOD, OR PRESSURE TREATED (P.T.) LUMBER. P.T. LUMBER TO CONFORM TO CURRENT AMERICAN WOOD PRESERVERS INSTITUTE STANDARDS. THIS INCLUDES ALL PLYWOOD, TRUSSES, SAWN MEMBERS, GLUE-LAMINATED MEMBERS, ETC., UNLESS NOTED OTHERWISE. ALL NAILS AND CONNECTORS SHALL BE HEAVY COAT GALVANIZED. CUT ENDS OF P.T. MEMBERS TO BE PAINTED WITH AN APPROVED PRESERVATIVE PER AWPA

28. WOOD IN DIRECT CONTACT WITH CONCRETE TO BE PRESSURE TREATED (P.T.). PRESSURE TREAT WITH .25#/CF PENTACHLOROPHENOL PER CURRENT AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) STANDARDS. PAINT OR DIP, WITH AN APPROVED PRESERVATIVE, ALL CUT ENDS OR FACES OF P.T. MEMBERS THAT ARE IN DIRECT CONTACT WITH CONCRETE OR EXPOSED TO WEATHER PER AWPA SPECIFICATION M-4. THIS REQUIREMENT INCLUDES ALL CRAWL

29. PROVIDE FIREBLOCKING IN CONCEALED SPACES OF WALLS INCLUDING FURRED SPACES AND PARALLEL ROWS OF STUDS OR STAGGERED STUDS VERTICALLY AT THE CEILING AND FLOOR LEVEL AND AT 10'-0" O.C. INTERVALS HORIZONTALLY. FIREBLOCK BETWEEN ALL INTERCONNECTIONS OF CONCEALED VERTICAL AND HORIZONTAL SPACES. FIREBLOCK IN OPENINGS AROUND VENTS, PIPES AND DUCTS AT CEILING AND FLOOR LEVELS WITH APPROVED MATERIALS. FIREBLOCK CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF RUN. FIREBLOCK ALL SPACES BETWEEN CHIMNEYS AND THE FLOORS AND CEILINGS THROUGH WHICH THE CHIMNEYS PASS WITH NONCOMBUSTIBLE MATERIAL FASTENED SECURELY IN PLACE. ALL MATERIALS USED FOR FIREBLOCKING SHALL

30. PROVIDE A MINIMUM OF 1-HOUR OCCUPANCY SEPARATION BETWEEN THE HABITABLE SPACES OF THE HOUSE AND THE GARAGE. SUCH SEPARATION AT WALLS SHALL CONSIST OF ONE LAYER OF 5/8" THICK TYPE X GWB, TAPED AND FINISHED, ON THE GARAGE SIDE OF THE COMMON WALL TO EXTEND FROM THE TOP OF THE GARAGE CONCRETE SLAB OR FOUNDATION TO THE BOTTOM OF THE PROTECTED CEILING ASSEMBLY OR BOTTOM OF THE ROOF SHEATHING UNLESS NOTED OTHERWISE ON THESE DRAWINGS. SCREW GWB TO STUDS (@ 16" O.C.) WITH 1\4" TYPE W DRYWALL SCREWS SPACED@ 12" O.C.- STAGGER PANEL JOINTS. WALL ASSEMBLY SHALL MEET GYPSUM ASSOCIATION FILE #WP 3514 REQUIREMENT. THE PROTECTED CEILING ASSEMBLY SHALL CONSIST OF (2) LAYERS OF 5/8" THICK TYPE X GWB APPLIED PERPENDICULAR TO TRUSSES/FRAMING WITH ALL JOINTS BETWEEN LAYERS OFFSET 24". ATTACH BASE LAYER WITH 1-1/4" TYPE W OR S DRYWALL SCREWS @ 12" O.C., ATTACH FACE LAYER WITH 1" TYPE S DRYWALL SCREWS @ 12" O.C. IN ADDITION, 1-1/2" TYPE G DRYWALL SCREWS SPACED 12" O.C. SHALL BE PLACED 2" BACK FROM EACH SIDE OF FACE LAYER END JOINT. CEILING ASSEMBLY SHALL MEET GYPSUM ASSOCIATION FILE #FC 5406. DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS AND CEILINGS OF THE GARAGE THAT SEPARATE THE GARAGE FROM THE DWELLING UNIT SHALL BE CONSTRUCTED OF A MINIMUM OF 26 GAGE SHEET METAL OR OTHER APPROVED

31. PROVIDE A MINIMUM 1-HOUR OCCUPANCY SEPARATION ON ALL WALLS AND CEILINGS IN SPACES UNDERNEATH STAIRWAYS. SUCH SEPARATION TO CONSIST OF5/8" TYPE X GWB, TAPED AND FINISHED, ON THE UNDER-STAIR SIDE OF THE WALLS AND CEILINGS. STUDS TO BE A MAXIMUM OF 16" O.C.. SCREW GWB TO STUDS (@ 16" O.C.) WITH 1V." TYPE W DRYWALL SCREWS SPACED@ 12" O.C. - STAGGER PANEL JOINTS. WALL ASSEMBLY SHALL CONFORM TO THE

32. PROVIDE A 20-MINUTE RATED DOOR WITH WEATHER-STRIPPING AND SMOKE SEALED THRESHOLD BETWEEN THE

33. IN BASEMENTS, GARAGES, MECHANICAL ROOMS OR OTHER AREAS SUSCEPTIBLE TO MOISTURE INTRUSION, HOLD G.W.B. A MINIMUM OF <sup>3</sup>/<sub>4</sub>" OFF OF CONCRETE SLABS ON GRADE OR FINISHED FLOORS.

35. PROVIDE A MINIMUM OF 22" X 30" UNOBSTRUCTED ACCESS TO ALL ATTICS OF ROOF AREAS WITH A NET CLEAR HEIGHT

36. UN-CONDITIONED UNDER-FLOOR AREAS TO BE VENTILATED BY AN APPROVED MECHANICAL MEANS OR BY OPENINGS IN THE EXTERIOR FOUNDATION WALLS. SUCH OPENINGS SHALL HAVE A NET AREA OF NOT LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER FLOOR AREA. OPENINGS WILL HAVE AN APPROVED INSECT SCREEN THAT THE LEAST DIMENSION DOES NOT EXCEED 1/4" AND ONE OPENING SHALL BE LOCATED WITHIN 3 FEET OF EACH CORNER OF

37. PROVIDE ATTIC VENTILATION OF 1/150 OF ATTIC AREA IF ALL VENTILATION IS LOCATED AT THE SOFFIT- OR- 1/300 OF ATTIC AREA IF 1/2 OF THE REQUIRED VENTILATION IS LOCATED AT THE SOFFIT AND 1/2 IS LOCATED A MINIMUM OF 3'-0" ABOVE THE SOFFIT VENTILATION OR WHERE THERE IS A CONTINUOUS PYA OR POLY FILM VAPOR BARRIER AT THE WARM SIDE OF THE CEILING. SEE ALSO ROOF PLANS AS APPLICABLE FOR ADDITIONAL CALCULATIONS AND

38. APPLICATION AND INSTALLATION OF INSULATION AND VAPOR BARRIERS SHALL COMPLY WITH STATE OF WASHINGTON

39. ALL LOW SLOPE ROOF AND WATERPROOF DECK AREAS TO HAVE A MINIMUM ROOF SLOPE OF 1/4" PER FOOT. PROVIDE 2X WOOD SLEEPERS AT LOW SIDE OF LOW SLOPE ROOFS AND WATERPROOF DECKS TO FORM CRICKETS TO SLOPE THE ROOF TO DRAIN AS REQUIRED. ALL CRICKET "VALLEYS" TO HAVE A MINIMUM SLOPE OF 1/8" PER FOOT. PROVIDE A

CONTINUOUS 3 1/2" HIGH 45 DEGREE WOOD CANT STRIP AT THE INTERSECTION OF ALL HORIZONTAL TO VERTICAL PLANES ON LOW SLOPE ROOFS AND WATERPROOF DECKS HAVING SINGLE PLY MEMBRANE ROOFING, INCLUDING BUT 40. THE ROOFING INSTALLER MUST BE APPROVED BY THE ROOFING PRODUCT MANUFACTURER AND THE ARCHITECT.

INSTALL ROOF ONLY WHEN SATISFACTORY CONDITIONS PREVAIL. APPLY NO ROOFING WHEN MOISTURE IN ANY FORM IS PRESENT. INSTALL ROOFING PER MANUFACTURER'S INSTRUCTIONS, RECOMMENDATIONS AND SPECIFICATIONS. FLASH AND COUNTER FLASH ALL ROOF PENETRATIONS. ROOFING MATERIALS, FLASHING AND INSTALLATION TO

41. PLUMBING RISERS AND VENTS ARE NOT SHOWN IN THE CONSTRUCTION DOCUMENTS FOR CLARITY. PROVIDE PLUMBING ROOF JACKS AND SLEEVES AS REQUIRED PRIOR TO INSTALLING THE ROOFING MATERIAL. ALL ROOF JACKS AND SLEEVES TO BE APPROVED BY THE ROOFING MANUFACTURER PRIOR TO INSTALLATION, WITH LOCATIONS

42. PROVIDE ROOF DRAINS (R.D.) WITH DOWN SPOUTS (D.S.) WHERE INDICATED ON THE PLAN. ALL ROOF DRAINS IN LOW SLOPE ("FLAT") ROOF AND WATERPROOF DECK AREAS WHERE A ROOFING MEMBRANE IS SPECIFIED TO BE INSTALLED SHALL BE CAST IRON AND APPROVED BY THE ROOFING MANUFACTURER AND ARCHITECT FOR USE WITH THE SPECIFIED MEMBRANE PRODUCT. INSTALL PER ROOFING MANUFACTURER'S SPECIFICATIONS. WHEN INDICATED ON THE PLANS. PROVIDE AN OVERFLOW DRAIN (O.D.) HAVING THE SAME SIZE AS THE ADJACENT ROOF DRAIN. THE OVERFLOW DRAIN INLET SHALL BE LOCATED 2" ABOVE THE LOW POINT OF THE ROOF. WHERE AN OVERFLOW DRAIN DAYLIGHTS, EXTEND THE OVERFLOW DRAIN PIPE 1/2" BEYOND THE FACE OF THE FINISHED SIDING/CLADDING AND SEAL AROUND PIPE. WHEN APPLICABLE, PAINT THE EXPOSED OVERFLOW PIPE TO MATCH THE COLOR OF THE SURROUNDING SIDING/CLADDING SURFACE. WHERE AN OVERFLOW DRAIN TERMINATES AT A SOFFIT, PROVIDE AN OFFSET IN THE DRAIN PIPE TO PREVENT SEEING UP THROUGH THE PIPE FROM BELOW. WHEN NO OVERFLOW DRAIN IS INDICATED, THERE SHALL BE A THRU-WALL OVERFLOW SCUPPER OUTLET HAVING AN OPENING AREA THREE TIMES THE SIZE OF THE ROOF DRAIN, AND A MINIMUM OPENING HEIGHT OF 4". SEE THE PROJECT MANUAL FOR THE OVERFLOW SCUPPER METAL AND FINISH. IF THE FINISH IS NOT SPECIFIED, APPROVAL OF THE PROPOSED FINISH BY THE ARCHITECT IS REQUIRED PRIOR TO FABRICATION AND INSTALLATION. DO NOT INTERCONNECT THE ROOF DRAINS TO THE FOUNDATION DRAINS. CONNECT ALL ROOF DRAINS TO THE APPROVED STORM SEWER OR DISCHARGE SYSTEM PER GENERAL NOTES #16 AND #18.

43. WHEN THRU-WALL ROOF DRAIN SCUPPERS ARE INDICATED ON THE DRAWINGS, PROVIDE CUSTOM METAL CONDUCTOR HEAD (C.H.) PER THE DRAWINGS, WITH INTEGRAL OVERFLOW OUTLETS AND CONNECT C.H. TO DOWNSPOUTS (D.S.). EACH THRU-WALL SCUPPER SHALL HAVE A MINIMUM OPENING AREA EQUALING THREE TIMES THE EQUIVALENT ROOF DRAIN PIPE OR DOWNSPOUT OPENING AREA REQUIRED FOR THE ROOF AREA IT SERVES, WITH A MINIMUM OPENING HEIGHT OF 4". ALL METAL THRU-WALL SCUPPER BOXES IN LOW SLOPE ("FLAT") ROOF AND WATERPROOF DECK AREAS WHERE A ROOFING MEMBRANE IS SPECIFIED TO BE INSTALLED SHALL BE APPROVED BY THE ROOFING MANUFACTURER AND ARCHITECT FOR USE WITH THE SPECIFIED MEMBRANE PRODUCT. INSTALL PER ROOFING MANUFACTURER'S SPECIFICATIONS. EACH CONDUCTOR HEAD SHALL BE PROVIDED WITH AN INTEGRAL OVERFLOW DRAIN OPENING. THE INLET FLOW LINE OF THE OVERFLOW OPENING SHALL BE LOCATED A MINIMUM OF2" ABOVE THE LOW POINT OF THE ADJACENT ROOF. DO NOT INTERCONNECT THE DOWNSPOUTS TO THE FOUNDATION DRAINS. CONNECT ALL DOWNSPOUTS TO THE APPROVED STORM SEWER OR DISCHARGE SYSTEM PER GENERAL NOTES #16 AND #18. SEE THE PROJECT MANUAL FOR MATERIAL AND FINISH OF ALL CONDUCTOR HEADS AND DOWNSPOUTS. IF THE FINISH IS NOT

- 44. PROVIDE DOWN SPOUTS (D.S.) WHERE INDICATED ON THE PLANS AND DRAWINGS. ALL EXPOSED DOWN SPOUTS SHALL BE SMOOTH, UN-CORRUGATED 3" ROUND METAL, UNLESS NOTED OTHERWISE. METAL FINISH SHALL BE PER THE FINISH SCHEDULE AND SHALL MATCH METAL FINISH FOR THE BUILDING. IF THE FINISH IS NOT SPECIFIED, APPROVAL OF THE PROPOSED FINISH BY THE ARCHITECT IS REQUIRED PRIOR TO INSTALLATION. VERIFY METAL COMPATIBILITY WITH GUTTERS AND CONDUCTOR HEADS PRIOR TO INSTALLATION, AND NOTIFY THE ARCHITECT IF INCOMPATIBILITIES EXIST. ATTACH THE DOWNSPOUT TO THE WALL WITH A "BLIND" (HIDDEN) STRAP. WHEN APPLICABLE, DOWN SPOUTS OR ROOF DRAIN PIPES WITHIN WALLS AND ROOF ASSEMBLIES SHALL BE 3" DIAMETER PVC PLASTIC PIPE INSTALLED WITH A MINIMUM OF BENDS AND DAY-LIGHTED BELOW FINISHED EXTERIOR GRADE TO AN APPROVED STORM DRAINAGE SYSTEM. INSULATE ALL ENCLOSED PVC PIPES WITH UN-FACED BATT INSULATION. ALL ROOF DRAIN PIPES NEXT TO OR OVER FINISHED INTERIOR SPACES TO BE SPRAY FOAM INSULATED OR CAST IRON PER THE HEATING AND PLUMBING NOTES. DO NOT INTERCONNECT THE DOWNSPOUTS TO THE FOUNDATION DRAINS. CONNECT ALL DOWNSPOUTS TO THE APPROVED STORM SEWER OR DISCHARGE SYSTEM PER GENERAL NOTES #16 AND #18.
- 45. UNLESS INDICATED OTHERWISE ON THE PLANS AND DRAWINGS, PROVIDE A CONTINUOUS 24 GAUGE HALF ROUND SHEET METAL GUTTER AT THE LOW EAVE SIDE OF ALL SLOPED ROOF AREAS. SEE THE FINISH SCHEDULE FOR THE GUTTER METAL AND FINISH. IF THE FINISH IS NOT SPECIFIED, APPROVAL OF THE PROPOSED FINISH BY THE ARCHITECT IS REQUIRED PRIOR TO INSTALLATION
- 46. PROVIDE SHEET METAL FLASHING AT ALL VALLEYS AND CHANGES IN ROOF PITCH. SEE THE FINISH SCHEDULE FOR THE FLASHING FINISH. IF THE FINISH IS NOT SPECIFIED, APPROVAL OF THE PROPOSED FINISH BY THE ARCHITECT IS REQUIRED PRIOR TO INSTALLATION. ALL ROOFING AND BUILDING PAPER UNDERLAYMENT TO BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS, AND APPLICABLE IBC/IRC CODES.
- 47. PROVIDE A MINIMUM OF 24 GAUGE FLASHING AND COUNTER FLASHING AT ALL ROOF PENETRATIONS AND INTERSECTIONS OF ROOF PLANES TO VERTICAL SURFACES AND PARAPET CAPS (UNLESS NOTED OTHERWISE ON PLANS AND SPECIFICATIONS). ALL PARAPET CAPS SHALL HAVE STANDING SEAM JOINTS AND A POSITIVE SLOPE BACK ONTO THE ROOF. SEE THE FINISH SCHEDULE FOR THE METAL AND FINISH. IF THE FINISH IS NOT SPECIFIED, APPROVAL OF THE PROPOSED FINISH BY THE ARCHITECT IS REQUIRED PRIOR TO INSTALLATION.
- 48. PROVIDE DRIP CAPS AND FLASHING AT ALL HORIZONTAL INTERRUPTIONS OF SIDING AND CHANGES FROM ONE SIDING MATERIAL TO ANOTHER. PROVIDE CONTINUOUS DRIP CAPS, WITH NO JOINTS OR SPLICES, OVER ALL DOOR AND WINDOW HEADS NOT PROTECTED BY AN OVERHANG WITHIN 6" OF THE HEAD (UNLESS NOTED OTHERWISE ON PLANS AND SPECIFICATION). SEE THE FINISH SCHEDULE FOR THE METAL AND FINISH. IF THE FINISH IS NOT SPECIFIED, APPROVAL OF THE PROPOSED FINISH BY THE ARCHITECT IS REQUIRED PRIOR TO INSTALLATION.
- 49. ALL FLASHING AND SHEET METAL WORK SHALL CONFORM TO THE MOST CURRENT EDITION OF THE SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) ARCHITECTURAL SHEET METAL MANUAL, UNLESS SPECIFIED OTHERWISE IN THE PROJECT MANUAL (WHERE PROVIDED).
- 50. INSTALL SILL, JAMB AND HEAD FLASHING PAPER AROUND ALL WALL PENETRATIONS. CONTRACTOR TO SUBMIT FLASHING PAPER TO THE ARCHITECT FOR APPROVAL PRIOR TO PROCEEDING WITH THE WORK. INSTALL FLASHING PAPER PER MANUFACTURER'S SPECIFICATIONS AND AS DETAILED IN THESE DOCUMENTS. IN THE EVENT THAT THERE ARE DISCREPANCIES OR CONTRADICTORY REQUIREMENTS OR INFORMATION BETWEEN THE MANUFACTURER'S SPECIFICATIONS AND THESE DOCUMENTS, IT IS THE OBLIGATION OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF THE DISCREPANCIES IN WRITING AND TO OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. INSTALL A WATER RESISTANT BARRIER ON ALL WALL SURFACES. WATER RESISTANT BARRIER FOR ALL CEMENT PLASTER STUCCO OR E.I.F.S. SYSTEMS SHALL BE TWO (2) LAYERS OF 60-MINUTE GRADE D PAPER- STAGGER ALL HORIZONTAL AND VERTICAL JOINTS BETWEEN SUCCESSIVE LAYERS. WATER RESISTANT BARRIERS FOR ALL OTHER SIDING MATERIALS TO BE TYPE #30 ASPHALT-SATURATED FELT OR #30 BITUMINOUS IMPREGNATED BUILDING PAPER UNLESS NOTED OTHERWISE IN THESE DOCUMENTS. NO SUBSTITUTIONS WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT. INSTALL ALL WATER RESISTANT BARRIERS IN SHINGLE FASHION - APPLIED HORIZONTALLY WITH EACH SUCCEEDING LAYER LAPPING THE ONE BELOW BY 4" MINIMUM. END LAPS TO BE 9" MINIMUM AND STAGGERED BETWEEN COURSES. WATER RESISTANT BARRIERS TO BE CONTINUOUS AROUND ALL INSIDE AND OUTSIDE COMERS, ANGLES AND BEHIND CONTROL JOINTS. CUT THE WATER RESISTANT BARRIER WITH A SHARP KNIFE AND FIT TIGHTLY AROUND ALL PENETRATIONS. REMOVE ALL WRINKLES IN FLASHING PAPER AND WATER RESISTANT BARRIERS. INSPECT FLASHING PAPER AND WATER RESISTANT BARRIERS FOR HOLES OR TEARS. REPLACE SECTIONS WITH HOLES OR TEARS IN A SHINGLE FASHION FOLLOWING MINIMUM LAP GUIDELINES SET FORTH IN THESE DOCUMENTS PRIOR TO INSTALLING THE SIDING MATERIAL. DO NOT SEAL THE BASE OF THE WALL, DOOR OR WINDOW HEADS, OR AT OTHER HORIZONTAL INTERRUPTION OF SIDING WITH SEALANTS OR OTHERWISE BLOCK THE ESCAPE OF MOISTURE FROM BEHIND THE SIDING MATERIAL.
- 51. ALL HINGED SHOWER DOORS SHALL OPEN OUTWARD AND SHALL NOT REQUIRE ANY SPECIAL KNOWLEDGE TO OPEN. 52. ALL DOORS SHALL CONFORM TO THE MOST CURRENT EDITION OF THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) QUALITY STANDARDS, CUSTOM GRADE, UNLESS SPECIFIED OTHERWISE IN THE PROJECT MANUAL. DOOR HARDWARE SHALL CONFORM TO THE DOOR AND HARDWARE INSTITUTE (DHI) STANDARDS, UNLESS SPECIFIED OTHERWISE IN THE PROJECT MANUAL. IN THE EVENT THAT THERE ARE CONFLICTING REQUIREMENTS IN AWI AND DHI STANDARDS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING AND AWAIT THE ARCHITECT'S DIRECTION PRIOR TO PROCEEDING WITH THE WORK.
- 53. ALL NEW GLAZING SHALL COMPLY WITH APPLICABLE IBC/IRC CODES AND WASHINGTON STATE SAFETY GLASS LAW. 54. GLAZING IN LOCATIONS SUBJECT TO HUMAN IMPACT SHALL BE WIRE REINFORCED, FULLY TEMPERED GLASS, LAMINATED SAFETY GLASS OR SHATTER RESISTANT PLASTIC. THE FOLLOWING AREAS SHALL BE CONSIDERED SPECIFIC HAZARDOUS AREAS SUBJECT TO HUMAN IMPACT: GLAZING IN ANY DOOR, FIXED PANEL OR OPERABLE PANEL. GLAZING IN DOORS OR ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, AND SHOWERS - OR ANY BUILDING WALL ENCLOSING THESE COMPARTMENTS WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60" ABOVE THE STANDING SURFACE OR DRAIN INLET. GLAZING IN FIXED OR OPERABLE PANELS ADJACENT TO A DOOR WHEN THE NEAREST EDGE IS WITHIN A 24" ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND THE BOTTOM OF THE GLAZING IS LESS THAN 60" ABOVE THE WALKING SURFACE. GLAZING IN RAILINGS. GLAZING WHERE THE BOTTOM EDGE IS LESS THAN 18" ABOVE THE FLOOR. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SE., THE EXPOSED TOP EDGE IS GREATER THAN 36" ABOVE THE FLOOR, AND THERE IS ONE OR MORE WALKING SURFACES WITHIN 36" HORIZONTALLY OF THE PLANE OF GLAZING. GLAZING IN WALLS OR FENCES USED AS BARRIERS FOR INDOOR OR OUTDOOR SWIMMING POOLS. GLAZING AT STAIR LANDINGS OR WITHIN 5'-0" FROM THE TOP OR BOTTOM OF STAIRWAYS WHERE THE BOTTOM EDGE OF THE GLASS IS LOCATED LESS THAN 60" ABOVE A WALKING SURFACE. 5. UNLESS NOTED OTHERWISE IN THE DOCUMENTS, ALL EXTERIOR GLAZING SHALL BE DOUBLE-GLAZED AND COMPLY WITH THE
- 56. EGRESS SHALL BE PROVIDED FROM EACH SLEEPING ROOM. EGRESS WINDOWS SHALL BE PROVIDED WHERE DOORS WHICH OPEN DIRECTLY TO THE EXTERIOR FROM THE SLEEPING ROOM ARE NOT PROVIDED. EGRESS WINDOWS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQ. FT. THE MINIMUM NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 24"; MIN. NET CLEAR OPENING WIDTH DIMENSION SHALL BE 20". THE FINISHED SILL HEIGHT SHALL NOT BE MORE THAN 44" ABOVE THE FLOOR
- 57. SITE BUILT SHOWER COMPARTMENTS SHALL BE PER PLANS AND DRAWINGS. ALL SHOWERS SHALL MEET THE MINIMUM REQUIREMENTS OF APPLICABLE IBC/IRC CODES. BUT MAY EXCEED THE MINIMUM REQUIREMENTS IF INDICATED SO ON PLANS AND DRAWINGS. TILE OR OTHER NON-ABSORBENT SURFACE MATERIAL SHALL BE INSTALLED IN ALL SHOWERS OR TUB/SHOWER COMBINATIONS AND SHALL EXTEND ABOVE THE DRAIN INLET PER THE INTERIOR ELEVATIONS AND PROJECT MANUAL, BUT AT NO TIME SHALL IT EXTEND LESS THAN 72" ABOVE THE DRAIN INLET. PROVIDE WATERPROOF SHOWER LINING AND RECEPTORS ON ALL SITE-BUILT SHOWER WALLS AND FLOORS PER APPLICABLE IBC/IRC CODES. PROVIDE A WATERPROOF VINYL SHOWER SUB-PAN MEMBRANE AT ALL TILE SHOWER FLOORS. PROVIDE AN APPROVED FLANGED DRAIN AT ALL SHOWER SUB-PANS AND LININGS. RUN THE WATERPROOF SHOWER SUB-PAN MEMBRANE OVER THE SHOWER DRAIN FLANGE AND SECURE WITH A CLAMPING RING OR OTHER DEVISE TO MAKE A WATER TIGHT CONNECTION BETWEEN THE SUB-PAN MEMBRANE AND THE DRAIN. INSTALL ALL WALL TILE OR OTHER NON-ABSORBENT SURFACE IN SHOWERS AND TUB/SHOWER COMBINATIONS OVER A WATERPROOF MEMBRANE APPLIED OVER CEMENTITIOUS BACKING BOARD. WATERPROOF MEMBRANE AND BACKER BOARD TO EXTEND THE FULL HEIGHT OF TILE OR NON-ABSORBENT MATERIAL. WATERPROOF MEMBRANES SHALL EXTEND OVER AND INTO ALL RECESSES, LEDGES, SILLS, CURBS, BENCHES AND OTHER ARCHITECTURAL FEATURES IN THE SHOWER OR TUB/SHOWER COMBINATION AREA. SLOPE ALL CURBS AND RECESSES TO DRAIN INTO THE SHOWER. THE CONTRACTOR SHALL CONFIRM THE COMPATIBILITY OF THE WATERPROOF SHOWER PAN MEMBRANE AND THE WATERPROOF WALL MEMBRANE. AFTER CONFIRMING THE COMPATIBILITY, THE CONTRACTOR SHALL SUBMIT BOTH MEMBRANES TO THE ARCHITECT FOR APPROVAL PRIOR TO PROCEEDING WITH THE WORK.
- 58. INSTALL ALL PREFABRICATED FIREPLACES, STOVES AND RELATED ASSEMBLIES IN ACCORDANCE WITH U.L. APPROVED MANUFACTURER'S SPECIFICATIONS AND APPLICABLE IBC/IRC CODES. DO NOT ALTER STRUCTURAL FRAMING MEMBERS TO ACCOMMODATE THESE INSTALLATIONS WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT AND THE STRUCTURAL ENGINEER OF RECORD. UNLESS SHOWN OTHERWISE, WHEN A FLUSH HEARTH IS INDICATED ON THE PLANS AND DRAWINGS, IT IS THE DESIGN INTENT THAT THE FINISHED SURFACE OF THE PREFABRICATED FIREPLACE FIREBOX AND THE FINISHED FACE OF THE HEARTH ALIGN WITH THE FINISHED FLOOR SURFACE OF THE ROOM. THE GENERAL CONTRACTOR SHALL ADJUST THE FLOOR FRAMING ACCORDINGLY TO ACCOMMODATE THIS RELATIONSHIP AND SHALL VERIFY THE FRAMING REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CLEARANCES TO COMBUSTIBLES, RECESSED FRAMING REQUIREMENTS, HEARTH REQUIREMENTS, ETC., FOR PREFABRICATED FIREPLACES WITH THE APPLIANCE MANUFACTURER PRIOR TO BEGINNING FRAMING. IN THE EVENT THAT THERE ARE CONFLICTING REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING AND AWAIT THE ARCHITECT'S DIRECTION PRIOR TO PROCEEDING WITH THE WORK. PROVIDE MANUFACTURER RECOMMENDED CLEARANCES FROM THE FIREPLACE TO ALL COMBUSTIBLES. ALL METAL CHIMNEYS TO BE STAINLESS STEEL UNLESS NOTED OTHERWISE IN THESE DOCUMENTS. ANCHOR ALL METAL CHIMNEYS AT EACH FLOOR AND ROOF WITH TWO 1-1/2" BY L/8" METAL STRAPS LOOPED AROUND THE OUTSIDE OF THE CHIMNEY INSTALLATION AND NAILED WITH NOT LESS THAN (6) 8D NAILS PER STRAP AT EACH JOIST. PROVIDE A NON-COMBUSTIBLE HEARTH AND FIREPLACE SURROUND FOR ALL PREFABRICATED FIREPLACES PER THESE DRAWINGS AND SPECIFICATIONS, HOWEVER, AT NO TIME SHALL THE HEARTH OR SURROUND BE LESS THAN THAT WHICH IS REQUIRED BY THE MANUFACTURER.
- 59. PROVIDE A MINIMUM OF 2" CLEAR FROM FIREPLACES, SMOKE CHAMBERS AND CHIMNEYS TO ALL COMBUSTIBLES. SEE APPLICABLE MASONRY FIREPLACE AND CHIMNEY NOTES FOR FURTHER REQUIREMENTS. 60. ALL HABITABLE ROOMS SHALL BE PROVIDED WITH AGGREGATE GLAZING AREA OF NOT LESS THAN 8 PERCENT OF THE FLOOR

AREA, EXCEPT WHERE MECHANICAL VENTILATION AND ARTIFICIAL LIGHT IS PROVIDED. NATURAL VENTILATION SHALL BE THROUGH WINDOWS, DOORS, LOUVERS OR OTHER APPROVED OPENINGS TO THE OUTDOORS. THE MINIMUM OPENABLE AREA TO THE OUTDOORS SHALL BE 4 PERCENT OF THE FLOOR AREA, EXCEPT IN ROOMS SUPPLIED WITH MECHANICAL VENTILATION PRODUCING .35 AIR CHANGES PER HOUR OR SERVED BY A WHOLE HOUSE VENTILATION SYSTEM SUPPLYING L5 CFM OF OUTSIDE AIR PER OCCUPANT.

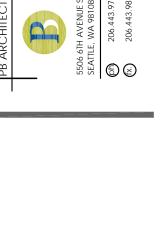
61. VENT ALL CLOTHES DRYERS, EXHAUST FANS, AND COOKTOP/RANGE-HOODS TO THE OUTSIDE. LOCATE ALL EXTERIOR BUILDING ENVELOP (WALLS, SOFFITS, ROOF, ETC.) PENETRATIONS BY VENTS PER THESE DRAWINGS. WHEN NOT INDICATED ON THE DRAWINGS, CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS TO THE ARCHITECT FOR APPROVAL PRIOR TO PROCEEDING WITH THE WORK. BATHROOMS, WATER CLOSET COMPARTMENTS AND OTHER SIMILAR ROOMS SHALL BE PROVIDED WITH A MECHANICAL VENTILATION SYSTEM CAPABLE OF PROVIDING 50 CFM FOR INTERMITTENT VENTILATION OR 20 CFM FOR CONTINUOUS VENTILATION. INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ANY HAZARDOUS OR NOXIOUS CONTAMINANT SUCH AS VENTS, CHIMNEYS, OR STREETS. EXHAUST OPENING SHALL BE LOCATED SO AS NOT TO CREATE A NUISANCE, AND NOT DIRECTED ONTO ANY WALKWAYS. EXHAUST FAN LOCATIONS INDICATED ON THE PLANS ARE SCHEMATIC. ALIGN ALL EXHAUST FANS WITH OTHER CEILING FIXTURES. SEE THE ELECTRICAL PLANS (WHERE APPLICABLE) OR ELECTRICAL CONTRACTOR FOR SCHEMATIC EXHAUST FAN LOCATIONS AND RELATIONSHIPS TO OTHER ELECTRICAL FIXTURES. SEE THE SPECIFICATIONS FOR EXHAUST FAN MANUFACTURER, CFM, AND MODEL NUMBERS AS REQUIRED BY THE WSEC.

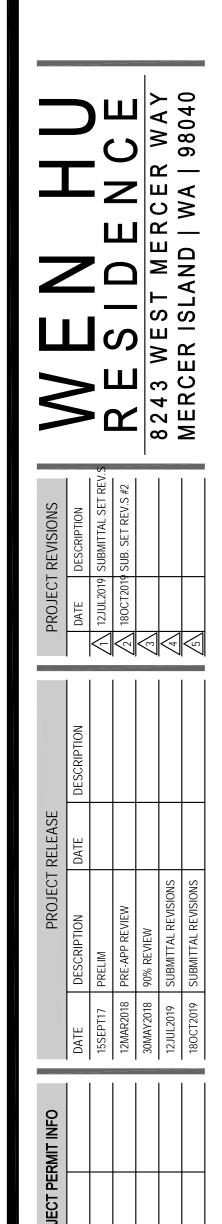
62. PROVIDE SMOKE ALARMS AND DETECTORS AS REQUIRED BY IRC SECTION R313. INTERCONNECT ALL SMOKE, HEAT, CARBON MONOXIDE (CO) AND NATURAL GAS DETECTORS IN THE BUILDING IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS. WHEN NATURAL GAS FIRED MECHANICAL UNITS ARE SPECIFIED, PROVIDE A NATURAL GAS DETECTOR IN THE MECHANICAL ROOM IN ADDITION TO THE SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR. ALL DETECTORS SHALL BE 110V WITH BATTERY BACK-UP. SEE THE ARCHITECTURAL FLOOR PLANS FOR SCHEMATIC DETECTOR LOCATIONS. IN THE EVENT THAT THERE ARE CONFLICTING REQUIREMENTS FOR DETECTOR PLACEMENT OR ADDITIONAL DETECTORS ARE REQUIRED BY CODE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING AND AWAIT THE ARCHITECT'S DIRECTION PRIOR TO PROCEEDING WITH THE WORK. ALIGN ALL DETECTORS WITH OTHER CEILING FIXTURES. SEE THE ELECTRICAL PLANS (WHERE APPLICABLE) OR ELECTRICAL CONTRACTOR FOR THE PLACEMENT OF OTHER FIXTURES, AND FURTHER NOTES. S.D. INDICATES DETECTOR ON FLOOR PLANS.

63. PROVIDE GUARDRAILS PER THE PLANS AND DRAWINGS. ALL GUARDRAILS SHALL MEET THE MINIMUM REQUIREMENTS OF THE APPLICABLE IBC/IRC CODES, BUT MAY EXCEED THE MINIMUM REQUIREMENTS IF INDICATED SO ON PLANS AND DRAWINGS. GUARDRAILS NOT LESS THAN 36" IN HEIGHT SHALL BE PLACED AT THE OPEN SIDE OF ALL PORCHES, BALCONIES AND RAISED FLOOR AREAS, WHICH ARE MORE THAN 30 INCHES ABOVE GRADE OR FLOOR BELOW. OPEN SIDES OF STAIR WITH A TOTAL RISE OF MORE THAN 30" ABOVE THE FLOOR OR GRADE BELOW SHALL HAVE GUARDRAILS NOT LESS THAN 34" IN HEIGHT MEASURED VERTICALLY FROM THE NOSING OF THE TREADS. OPEN GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERN, WHICH WILL NOT ALLOW A 4" INCH DIAMETER SPHERE TO PASS THROUGH. THE TRIANGULAR OPENINGS FORMED BY THE RISER/TREAD AND THE BOTTOM OF ELEMENT OF A GUARDRAIL AT THE OPEN SIDE OF A STAIR MAY BE OF SUCH SIZE THAT WILL NOT ALLOW A 6" DIAMETER SPHERE TO PASS THROUGH.

64. ONE HANDRAIL SHALL BE PROVIDED AT EVERY STAIRWAY HAVING FOUR OR MORE RISERS. PROVIDE 2 HANDRAILS WHERE INDICATED ON PLANS. HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS. THE TOP OF HANDRAILS SHALL BE PLACED ABOVE THE NOSING OF TREADS PER THE PLANS AND DRAWINGS, BUT NEVER LESS THAN 34" NOR MORE THAN 38". HANDRAILS ADJACENT TO WALLS SHALL HAVE A CLEAR SPACE OF NOT LESS THAN 1-1/2" BETWEEN THE WALL AND THE HANDRAIL. HANDGRIP PORTION OF HANDRAILS SHALL BE NOT LESS THAN 1-1/4" NOR MORE THAN 2" IN CROSS SECTIONAL DIMENSION, SHALL HAVE A SMOOTH SURFACE WITH NO SHARP CORNERS, AND SHALL TERMINATE INTO WALLS OR NEWEL POSTS. STAIR RISER HEIGHT AND TREAD DEPTH SHALL BE PER THESE DOCUMENTS. BUT, IN NO CASE SHALL THE RISER HEIGHT EXCEED 7-3/4" NOR SHALL THE GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS EXCEED THE SMALLEST BY MORE THAN 3/8". IN NO CASE SHALL THE TREAD DEPTH BE LESS THAN 10" NOR SHALL THE GREATEST TREAD DEPTH WITHIN ANY FLIGHT OF STAIRS EXCEED THE SMALLEST BY MORE THAN 3/8". STAIR WIDTH SHALL BE PER THESE DOCUMENTS. BUT, IN NO CASE SHALL THE STAIRWAY BE LESS THAN 36" IN CLEAR WIDTH AT ALL POINTS ABOVE THE PERMITTED HANDRAIL HEIGHT AND BELOW THE PERMITTED HEADROOM HEIGHT. HANDRAILS SHALL NOT PROJECT MORE THAN 4-1/2" ON EITHER SIDE OF THE STAIRWAY, BUT THE MINIMUM CLEAR WIDTH OF THE STAIRWAY AT AND BELOW THE HANDRAIL, INCLUDING TREADS & LANDINGS, SHALL NOT BE LESS THAN 31-1/2" WHEN A HANDRAIL IS INSTALLED ON ONE SIDE AND 27" WHEN HANDRAILS ARE INSTALLED ON BOTH SIDES.

A/C	AIR CONDITIONING	GA	GAUGE	סר	Q'D REQUIREI	)
A/C ADJ	ADJUSTABLE	GALV	GAUGE GALVANIZE(D)	RE		)
AFF	ABOVE FINISH FLOOR	GC	GENERAL CONTRACTO			
APPR		GRND		х к.С	. ROUGH U	PEINING
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	TESTING AND				HED SCHEDUL	
	MATERIALS	HDWD	HARDWOOD	SD		LIECTOR
AWG	AMERICAN WIRE GAUGE	HORIZ	HORIZONTAL	SH		
		HR	HOUR	SIN		
BLDG	BUILDING	HT	HEIGHT		YLT SKYLIGHT	
BLK	BLOCK	HVAC	HEATING, VENTING AND			
B/S	BUILDING STANDARD		AIR CONDITIONING	SP		ATION
				SQ		
CLG	CEILING	I.D.	INSIDE DIA.	SS		S STEEL
CLR	CLEAR	IN	INCH	ST		
CONC	CONCRETE	INFO	INFORMATION		RUC STRUCTU	
CONST	CONSTRUCTION	INSUL	INSULATION		SP. SUSPEND	
CONT	CONTINUOUS	INT	INTERIOR	S.V		
CO.	COMPANY			S.V	V. SIDEWALK	
		LB(S)	POUND(S)			
DBL	DOUBLE			TH		
DIA., Ø	DIAMETER	MAX	MAXIMUM	TN		
DIAG	DIAGONAL	MECH	MECHANICAL		D.C. TOP OF C	
DIM	DIMENSION	MTL	METAL		D.M. TOP OF M	
DN	DOWN	MANUF	MANUFACTURER	TS	TUBE STE	EL
DS	DOWNSPOUT	MGR	MANAGER	TY	P TYPICAL	
DTL, DETL	DETAIL	MIN	MINIMUM			
DWG	DRAWING	MISC	MISCELLANEOUS	UB		BUILDING
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E.W	EACH WAY	OD	OUTSIDE DIAMETER	VT	VINYL TILI	1
EX.	EXISTING	OPG	OPENING		WEAT	
EXT	EXTERIOR	OPP	OPPOSITE	W		
				W/	WITH	
FIN	FINISH	PLYWD	PLYWOOD	WE		
FLUoR	FLUORESCENT	PR	PAIR	W/		
FLR	FLOOR	PROJ	PROJECT	W.	P. WORKING	POINT
FT	FOOT	PROP	PROPERTY			
		PT	PRESSURE TREATED			
		^		$\begin{pmatrix} 1 \end{pmatrix}$		
격	ANGLE	3	REVISION	A-1.00	DETAIL REFI	ERENCE
&	AND			$\sim$		
ŭ		9)	KEY	$\begin{pmatrix} 2 \\ 1 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\$	ELEVATION	
@	AT	$\bigcirc$	NOTE	A-3.00	REFERENCE	
-			ASSEMBLY	$\overline{3}$	SECTIO	N
Æ	CENTER LINE	XX-#	TYPE	A-5.00	REFERE	
			· I I L	$\checkmark$		
#	NUMBER		ROOM	Č		
		100	NUUM	(1)	GRID	







LABEL

TAG

DOOR

TAG

(W01)

(D01)

EXT. OPENING

## **ABBREVIATIONS & SYMBOLS**

NUMBER

EXHAUST

WHOLE HOUSE FAN

FAN

100

PROPERTY LINE

SMOKE/CARBON

MONO DETECTOR

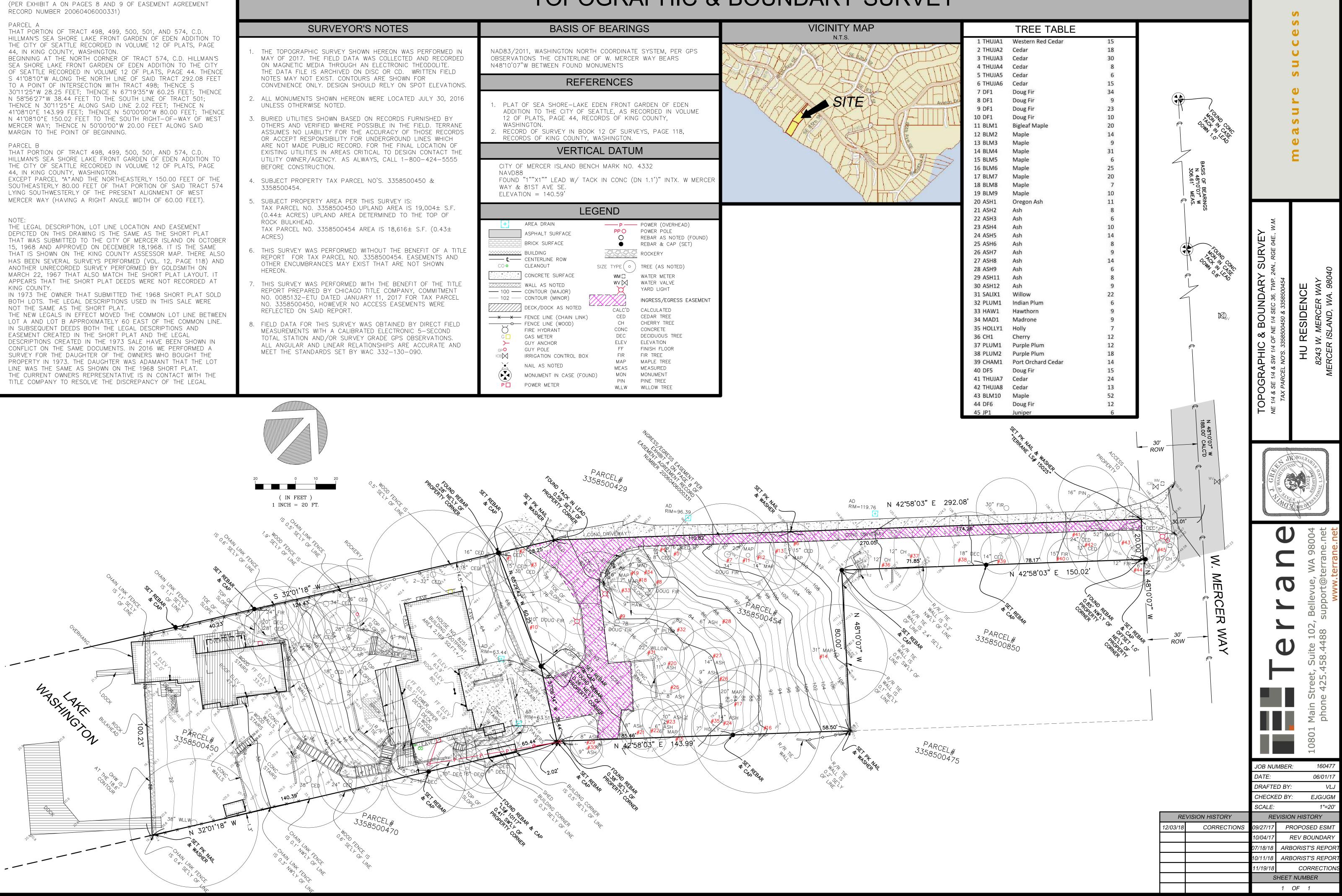
SMOKE DETECTOR

### LEGAL DESCRIPTION

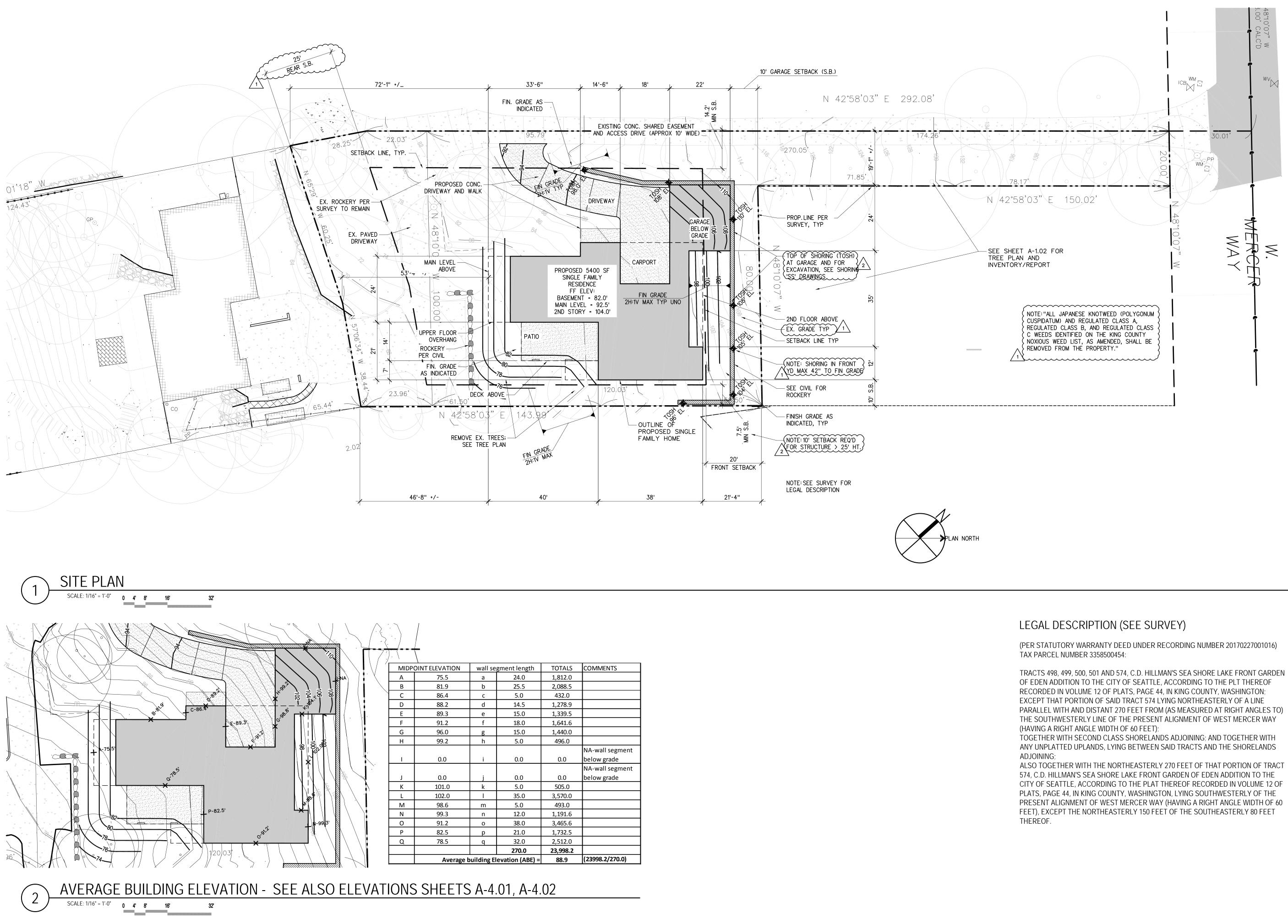
LYING SOUTHWESTERLY OF THE PRESENT ALIGNMENT OF WEST

### **BASIS OF BEARINGS** VICINITY MAP N.T.S. NAD83/2011, WASHINGTON NORTH COORDINATE SYSTEM, PER GPS OBSERVATIONS THE CENTERLINE OF W. MERCER WAY BEARS N48'10'07"W BETWEEN FOUND MONUMENTS REFERENCES 1. PLAT OF SEA SHORE-LAKE EDEN FRONT GARDEN OF EDEN ADDITION TO THE CITY OF SEATTLE, AS RECORDED IN VOLUME 12 OF PLATS, PAGE 44, RECORDS OF KING COUNTY, WASHINGTON. 2. RECORD OF SURVEY IN BOOK 12 OF SURVEYS, PAGE 118, RECORDS OF KING COUNTY, WASHINGTON. VERTICAL DATUM CITY OF MERCER ISLAND BENCH MARK NO. 4332 NAVD88 FOUND "1""X1"" LEAD W/ TACK IN CONC (DN 1.1')" INTX. W MERCER WAY & 81ST AVE SE. ELEVATION = 140.59'LEGEND AREA DRAIN ------ POWER (OVERHEAD) PP O POWER POLE ASPHALT SURFACE 0 REBAR AS NOTED (FOUND) BRICK SURFACE REBAR & CAP (SET) ROCKERY 🔆 BUILDING ------ CENTERLINE ROW CO **0** CLEANOUT SIZE TYPE ( $\circ$ ) TREE (AS NOTED) CONCRETE SURFACE WM 🗌 WATER METER w∨⊠ WATER VALVE WALL AS NOTED YARD LIGHT ----- 102 ----- CONTOUR (MINOR) INGRESS/EGRESS EASEMENT ///// DECK/DOCK AS NOTED CALCULATED CALC'D CED CEDAR TREE ------ FENCE LINE (WOOD) СН CHERRY TREE Я FIRE HYDRANT CONC CONCRETE DEC DECIDUOUS TREE GAS METER ELEV ELEVATION )— GUY ANCHOR FF FINISH FLOOR GUY POLE GPO ∣СВ FIR FIR TREE IRRIGATION CONTROL BOX MAP MAPLE TREE

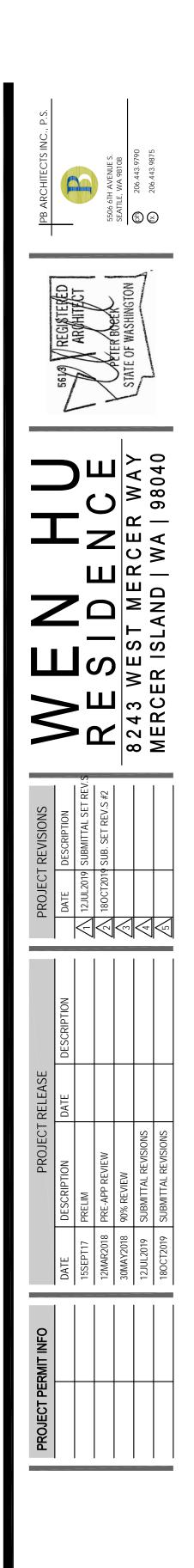
- UNLESS OTHERWISE NOTED.
- BEFORE CONSTRUCTION.
- 3358500454.
- ROCK BULKHEAD.
- REFLECTED ON SAID REPORT.



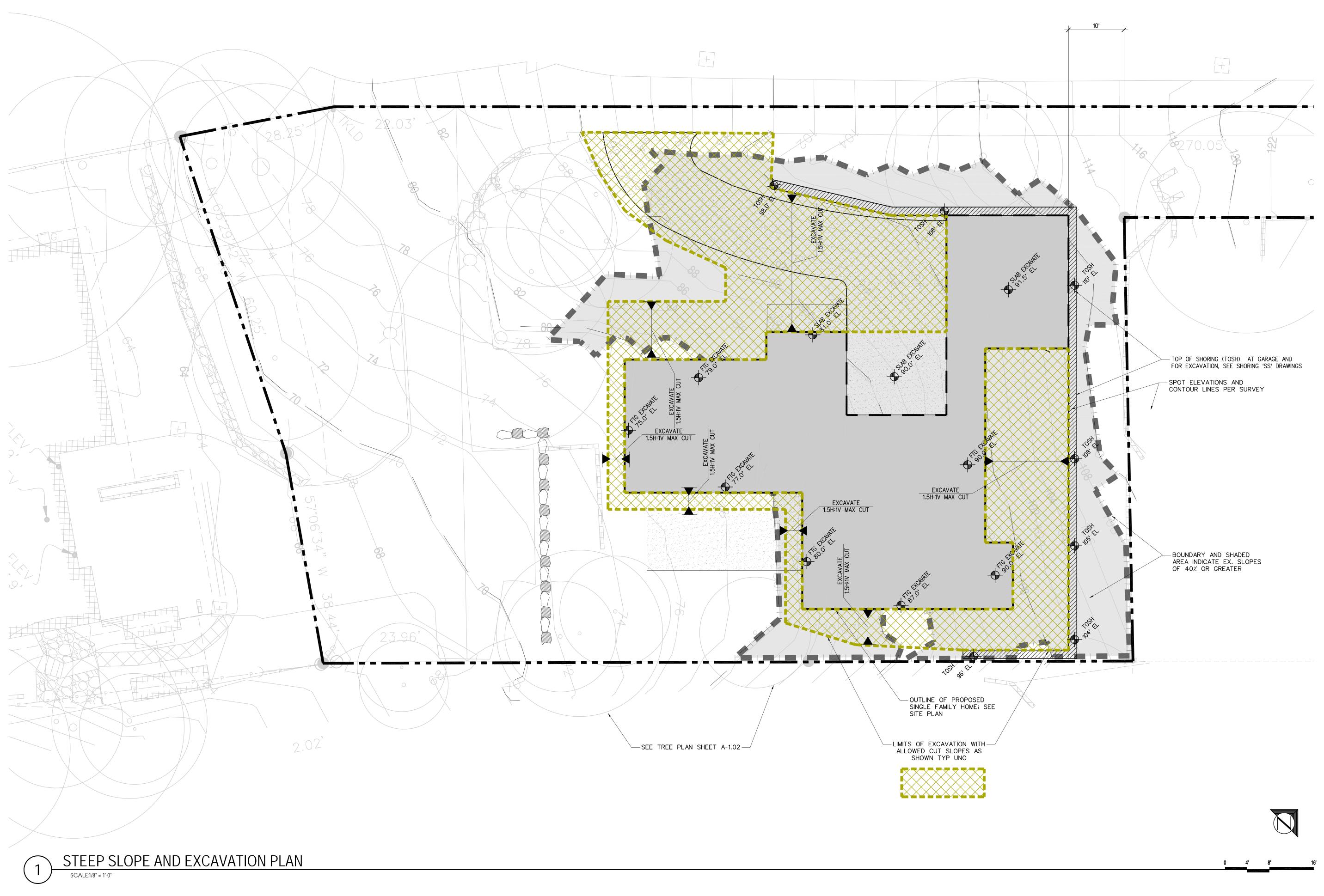
# **TOPOGRAPHIC & BOUNDARY SURVEY**

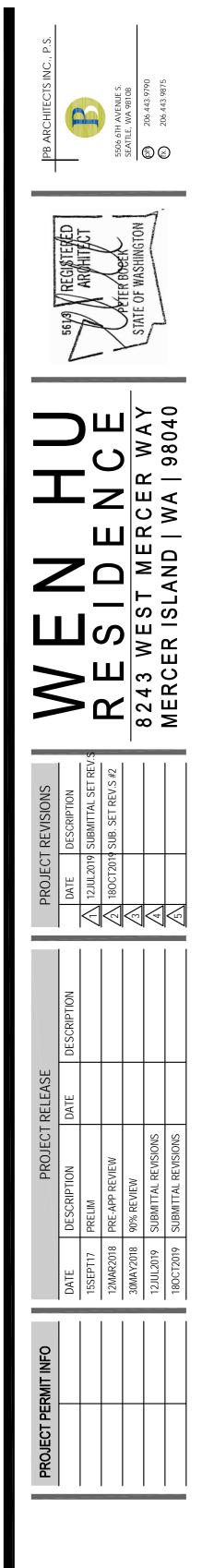


				(22000 2/270 0)
		270.0	23,998.2	
5	q	32.0	2,512.0	
	р	21.0	1,732.5	
5	0	38.0	3,465.6	
3	n	12.0	1,191.6	
0 5	m	5.0	493.0	
0		35.0	3,570.0	
0	k	5.0	505.0	
	j	0.0	0.0	below grade
				NA-wall segment
	i	0.0	0.0	below grade
				NA-wall segment
2	h	5.0	496.0	
)	g	15.0	1,440.0	
2	f	18.0	1,641.6	
3	е	15.0	1,339.5	
2	d	14.5	1,278.9	
ļ	с	5.0	432.0	
)	b	25.5	2,088.5	
5	a	24.0	1,812.0	
TION	wall seg	gment length	TOTALS	COMMENTS

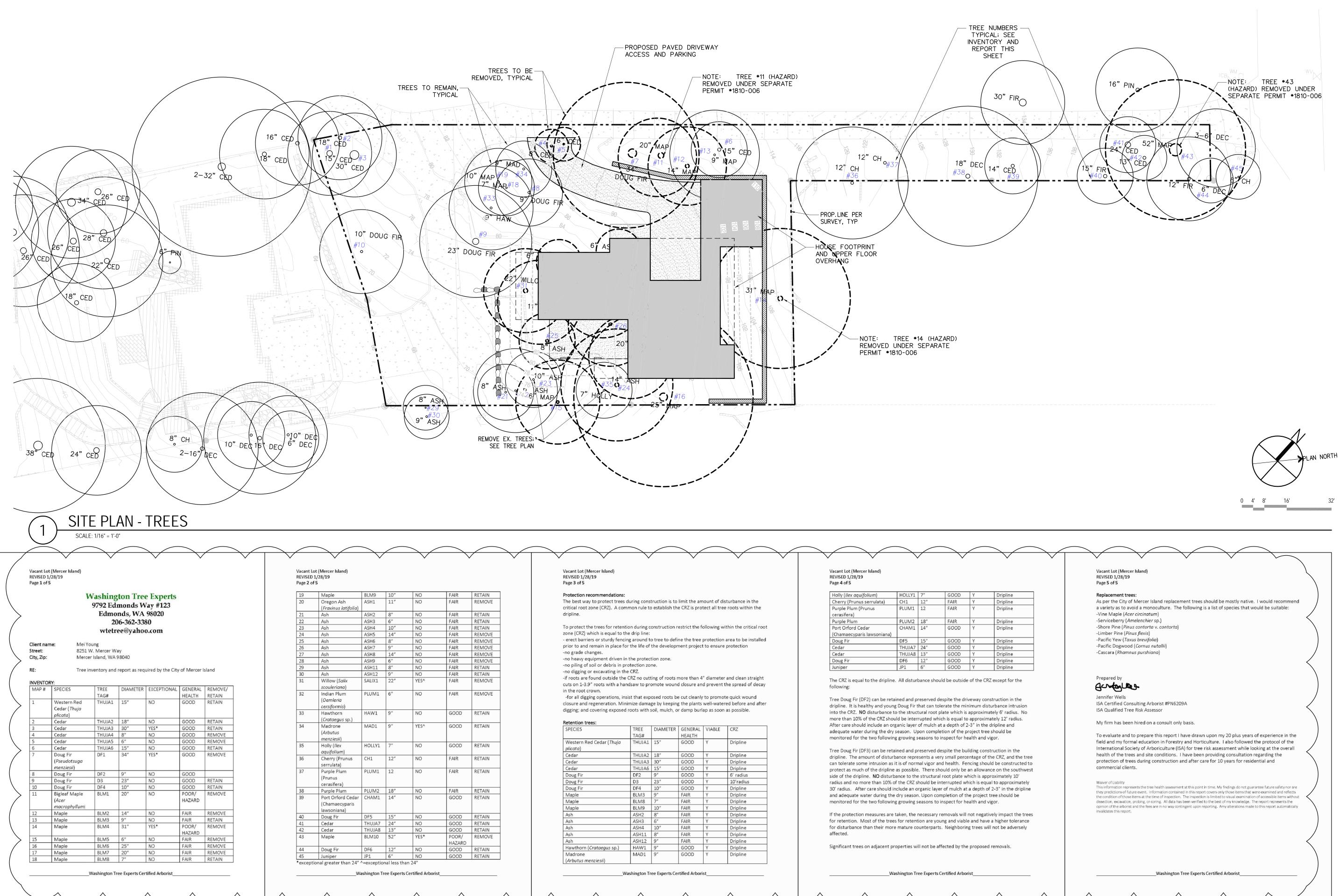


A-1.00	SITE PLAN
	SITE

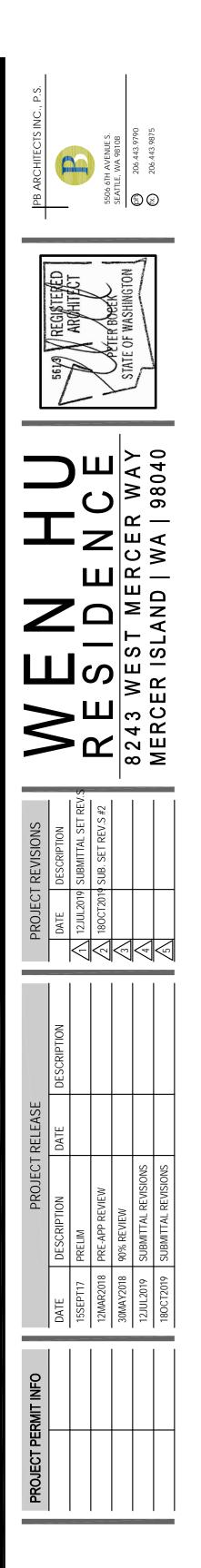




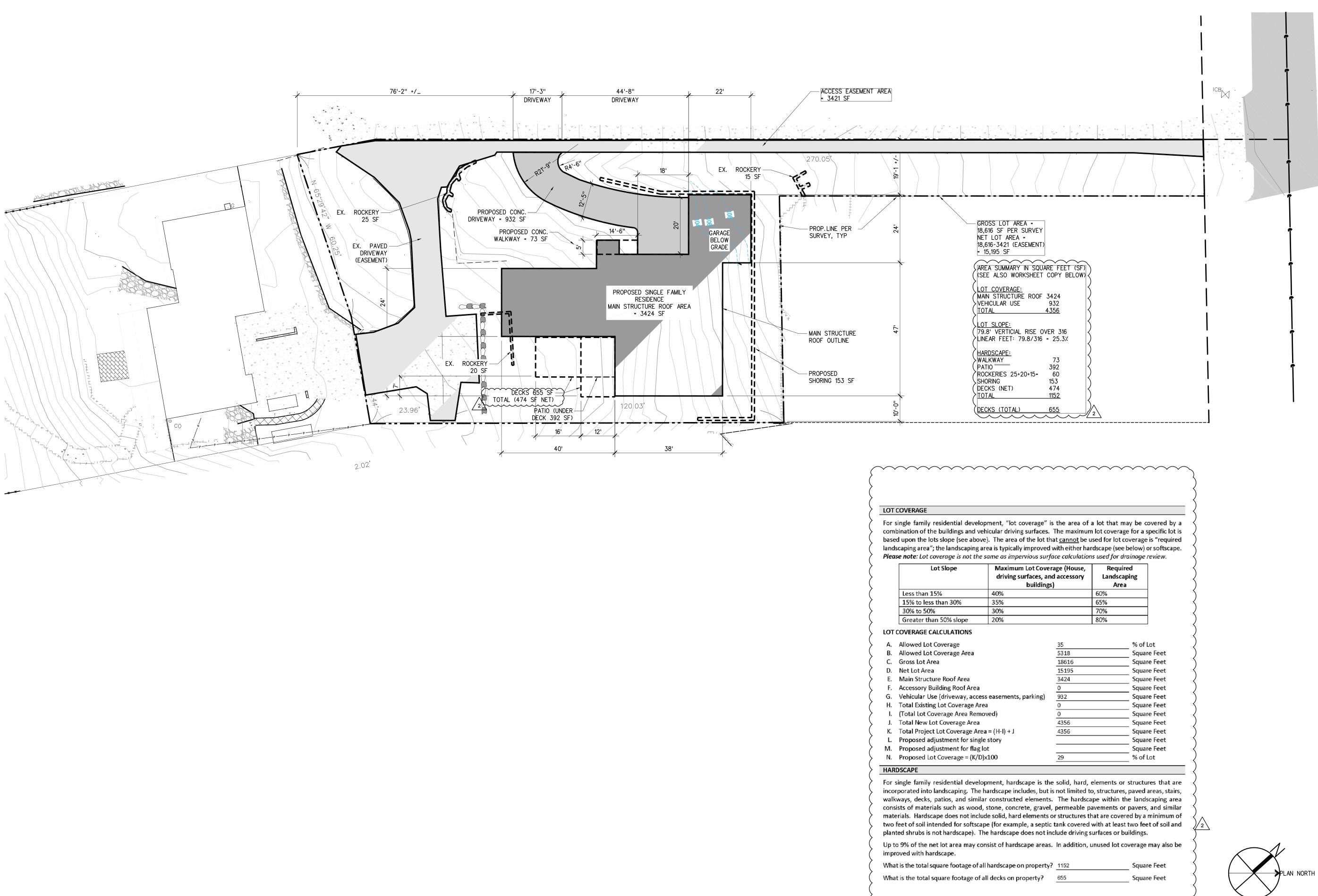




Vacant Lot (Mercer Island) REVISED 1/28/19 Page 3 of 5 Protection recommendations: The best way to protect trees of critical root zone (CRZ). A com dripline. To protect the trees for retenti zone (CRZ) which is equal to th - erect barriers or sturdy fencir prior to and remain in place fo -no grade changes. -no heavy equipment driven in -no piling of soil or debris in pr -no digging or excavating in the -if roots are found outside the cuts on 1-3.9" roots with a han	mon rule to on during co e drip line: ng around to r the life of t the protecti otection zon e CRZ.	establish the onstruction re- tree to defin he developm ion zone.	e CRZ is pro estrict the fo ne the tree	tect all tree ollowing w protection	e roots within the ithin the critical root		Vacant Lot (Mercer Island REVISED 1/28/19 Page 4 of 5 Holly ( <i>Ilex aquifolium</i> ) Cherry (Prunus serrulat Purple Plum (Prunus cerasifera) Purple Plum	HOLLY1 (a) CH1 PLUM1 PLUM2	12" 12	GOOD FAIR FAIR	<u>ү</u> <u>ү</u> Ү	Dripline Dripline Dripline
The best way to protect trees of critical root zone (CRZ). A come dripline. To protect the trees for retenti zone (CRZ) which is equal to th - erect barriers or sturdy fencin prior to and remain in place fo -no grade changes. -no heavy equipment driven in -no piling of soil or debris in pr -no digging or excavating in the -if roots are found outside the	mon rule to on during co e drip line: ng around to r the life of t the protecti otection zon e CRZ.	establish the onstruction re- tree to defin he developm ion zone.	e CRZ is pro estrict the fo ne the tree	tect all tree ollowing w protection	e roots within the ithin the critical root		Cherry (Prunus serrulat Purple Plum (Prunus cerasifera)	a) CH1 PLUM1 PLUM2	12" 12	FAIR FAIR	Y	Dripline
critical root zone (CRZ). A com dripline. To protect the trees for retenti zone (CRZ) which is equal to th - erect barriers or sturdy fencir prior to and remain in place fo -no grade changes. -no heavy equipment driven in -no piling of soil or debris in pr -no digging or excavating in the -if roots are found outside the	mon rule to on during co e drip line: ng around to r the life of t the protecti otection zon e CRZ.	establish the onstruction re- tree to defin he developm ion zone.	e CRZ is pro estrict the fo ne the tree	tect all tree ollowing w protection	e roots within the ithin the critical root		Cherry (Prunus serrulat Purple Plum (Prunus cerasifera)	a) CH1 PLUM1 PLUM2	12" 12	FAIR FAIR	· ·	Dripline
critical root zone (CRZ). A com dripline. To protect the trees for retenti zone (CRZ) which is equal to th - erect barriers or sturdy fencir prior to and remain in place fo -no grade changes. -no heavy equipment driven in -no piling of soil or debris in pr -no digging or excavating in the -if roots are found outside the	mon rule to on during co e drip line: ng around to r the life of t the protecti otection zon e CRZ.	establish the onstruction re- tree to defin he developm ion zone.	e CRZ is pro estrict the fo ne the tree	tect all tree ollowing w protection	e roots within the ithin the critical root		Purple Plum (Prunus cerasifera)	PLUM1 PLUM2	12	FAIR	Y	-
To protect the trees for retenti zone (CRZ) which is equal to th - erect barriers or sturdy fencir prior to and remain in place fo -no grade changes. -no heavy equipment driven in -no piling of soil or debris in pr -no digging or excavating in the -if roots are found outside the	e drip line: ng around to r the life of t the protecti otection zon e CRZ.	tree to defin he developn ion zone.	ne the tree	protection			cerasifera)		18"	EAID		1
zone (CRZ) which is equal to th - erect barriers or sturdy fencir prior to and remain in place fo -no grade changes. -no heavy equipment driven in -no piling of soil or debris in pr -no digging or excavating in the -if roots are found outside the	e drip line: ng around to r the life of t the protecti otection zon e CRZ.	tree to defin he developn ion zone.	ne the tree	protection			Purple Plum		18"	EALD		
zone (CRZ) which is equal to th - erect barriers or sturdy fencir prior to and remain in place fo -no grade changes. -no heavy equipment driven in -no piling of soil or debris in pr -no digging or excavating in the -if roots are found outside the	e drip line: ng around to r the life of t the protecti otection zon e CRZ.	tree to defin he developn ion zone.	ne the tree	protection						FAIR	Y	Dripline
<ul> <li>erect barriers or sturdy fencir prior to and remain in place fo</li> <li>no grade changes.</li> <li>no heavy equipment driven in</li> <li>no piling of soil or debris in pr</li> <li>no digging or excavating in the</li> <li>if roots are found outside the</li> </ul>	ng around to r the life of t the protecti otection zon e CRZ.	he developn ion zone.					Port Orford Cedar	CHAM1	14"	GOOD	Y	Dripline
prior to and remain in place fo -no grade changes. -no heavy equipment driven in -no piling of soil or debris in pr -no digging or excavating in the -if roots are found outside the	r the life of t the protecti otection zon e CRZ.	he developn ion zone.					(Chamaecyparis lawsor	niana)				
-no grade changes. -no heavy equipment driven in -no piling of soil or debris in pr -no digging or excavating in the -if roots are found outside the	the protecti otection zon e CRZ.	ion zone.	ment project				Doug Fir	DF5	15″	GOOD	Y	Dripline
-no heavy equipment driven in -no piling of soil or debris in pr -no digging or excavating in the -if roots are found outside the	otection zon e CRZ.			t to ensure	protection		Cedar	THUJA7	24″	GOOD	Y	Dripline
<ul> <li>-no piling of soil or debris in pr</li> <li>-no digging or excavating in the</li> <li>-if roots are found outside the</li> </ul>	otection zon e CRZ.						Cedar	THUJA8	13″	GOOD	Y	Dripline
<ul> <li>-no digging or excavating in the</li> <li>-if roots are found outside the</li> </ul>	e CRZ.						Doug Fir	DF6	12″	GOOD	Y	Dripline
-if roots are found outside the		ie.					Juniper	JP1	6″	GOOD	Y	Dripline
	CD7			<i>и</i> р								
To all and the second sec		-			-		The CRZ is equal to the of following:	fripline. All distur	bance shou	Ild be outside	e of the CRZ	except for the
in the root crown. -for all digging operations, ins closure and regeneration. Mini							0					
digging; and covering exposed	roots with se	oil, mulch, o	r damp burl	ap as soon	as possible.		into the CRZ. NO distur	pance to the struc	tural root p	plate which is	approxima	tely 6' radius. No
Retention trees:												
SPECIES	TREE TAG#	DIAMETER	GENERAL HEALTH	VIABLE	CRZ		adequate water during t	he dry season. U	pon comple	etion of the p	roject tree	should be
Western Red Cedar ( <i>Thuja</i> plicata)	THUJA1	15″	GOOD	Y	Dripline							
Cedar	THUJA2	18″	GOOD	Y	Dripline		•					
Cedar	THUJA3	30″	GOOD	Y	Dripline						-	
Cedar	THUJA6	15″	GOOD	Y	Dripline				-		-	
Doug Fir	DF2	9″	GOOD	Y	6' radius							
Doug Fir	D3	23″	GOOD	Y	10'radius							
Doug Fir	DF4	10"	GOOD	Y	Dripline							
Maple	BLM3	9″	FAIR	Y	Dripline							
Maple	BLM8	7″	FAIR	Y	Dripline							
Maple	BLM9	10″	FAIR	Y	Dripline							-
Ash	ASH2	8″	FAIR	Y	Dripline		If the protection measur	es are taken, the	necessary r	removals will	not negativ	ely impact the tree
Ash	ASH3	6″	FAIR	Y	Dripline		for retention. Most of t	he trees for reten	tion are you	ung and viabl	e and have	a higher tolerance
Ash	ASH4	10″	FAIR	Y	Dripline		for disturbance than the	ir more mature c	ounterparts	s. Neighborir	ig trees will	not be adversely
Ash	ASH11	8″	FAIR	Y	Dripline		affected.					
Ash			FAIR	Y	Dripline							
Hawthorn (Crataegus sp.)	HAW1	9″	GOOD	Y	Dripline		Significant trees on adja	cent properties w	vill not be af	fected by the	e proposed	removals.
Madrone (Arbutus menziesii)	MAD1	9"	GOOD	Y	Dripline							
W	ashington Tre	e Experts Cer	rtified Arbori	st				Washington T	ree Experts (	Certified Arbo	rist	
	closure and regeneration. Mini digging; and covering exposed <b>Retention trees:</b> SPECIES Western Red Cedar ( <i>Thuja</i> <i>plicata</i> ) Cedar Cedar Cedar Doug Fir Doug Fir Doug Fir Maple Maple Maple Maple Ash Ash Ash Ash Ash Ash Ash Hawthorn ( <i>Crataegus</i> sp.) Madrone ( <i>Arbutus menziesii</i> )	closure and regeneration. Minimize damag digging; and covering exposed roots with s <b>Retention trees:</b> SPECIES         TREE           TAG#         Western Red Cedar ( <i>Thuja</i> plicata)         THUJA1           cedar         THUJA2           Cedar         THUJA3           Cedar         THUJA6           Doug Fir         D3           Doug Fir         DF4           Maple         BLM3           Maple         BLM3           Ash         ASH2           Ash         ASH4           Ash         ASH11           Ash         ASH12           Hawthorn ( <i>Crataegus</i> sp.)         HAW1           Madrone         MAD1           (Arbutus menziesii)         MAD1	closure and regeneration. Minimize damage by keeping digging; and covering exposed roots with soil, mulch, o Retention trees: SPECIES TREE DIAMETER TAG# Western Red Cedar ( <i>Thuja</i> THUJA1 15" <i>plicata</i> ) Cedar THUJA2 18" Cedar THUJA3 30" Cedar THUJA3 30" Cedar THUJA6 15" Doug Fir DF2 9" Doug Fir DF2 9" Doug Fir DF4 10" Maple BLM3 9" Maple BLM3 9" Maple BLM8 7" Maple BLM8 7" Maple BLM9 10" Ash ASH2 8" Ash ASH2 8" Ash ASH3 6" Ash ASH1 8" Ash ASH1 8" Ash ASH1 8" Ash ASH1 9" Hawthorn ( <i>Crataegus</i> sp.) HAW1 9" Madrone MAD1 9"	closure and regeneration. Minimize damage by keeping the plants digging; and covering exposed roots with soil, mulch, or damp burk Retention trees: SPECIES       TREE       DIAMETER       GENERAL         Western Red Cedar ( <i>Thuja</i> THUJA1       15"       GOOD <i>plicata</i> )       Cedar       THUJA2       18"       GOOD         Cedar       THUJA3       30"       GOOD         Cedar       THUJA6       15"       GOOD         Cedar       THUJA6       15"       GOOD         Doug Fir       DF2       9"       GOOD         Doug Fir       DF4       10"       GOOD         Maple       BLM3       9"       FAIR         Maple       BLM8       7"       FAIR         Ash       ASH2       8"       FAIR         Ash       ASH3       6"       FAIR         Ash       ASH11       8"       FAIR         Ash       ASH11       9"       GOOD         Madrone       MAD1       9"       GOOD	closure and regeneration. Minimize damage by keeping the plants well-water digging; and covering exposed roots with soil, mulch, or damp burlap as soon <b>Retention trees:</b> SPECIES         TREE         DIAMETER         GENERAL         VIABLE           Western Red Cedar ( <i>Thuja</i> THUJA1         15"         GOOD         Y           plicata)         -         -         -         -         -           Cedar         THUJA2         18"         GOOD         Y           Cedar         THUJA3         30"         GOOD         Y           Cedar         THUJA6         15"         GOOD         Y           Doug Fir         DF2         9"         GOOD         Y           Doug Fir         DF4         10"         GOOD         Y           Maple         BLM3         9"         FAIR         Y           Maple         BLM9         10"         FAIR         Y           Ash         ASH2         8"         FAIR         Y           Ash         ASH11         8"         FAIR         Y           Ash         ASH11         8"         FAIR         Y           Ash         ASH11         8"         FAIR         Y	closure and regeneration. Minimize damage by keeping the plants well-watered before and after digging; and covering exposed roots with soil, mulch, or damp burlap as soon as possible. <b>Retention trees:</b> SPECIES         TREE TAG#         DIAMETER DIAMETER         GENERAL HEALTH         VIABLE         CRZ           Western Red Cedar ( <i>Thuja</i> THUJA1         15"         GOOD         Y         Dripline           Cedar         THUJA2         18"         GOOD         Y         Dripline           Cedar         THUJA3         30"         GOOD         Y         Dripline           Cedar         THUJA3         30"         GOOD         Y         Dripline           Cedar         THUJA3         30"         GOOD         Y         Dripline           Doug Fir         DF2         9"         GOOD         Y         Dripline           Maple         BLM3         9"         FAIR         Y         Dripline           Maple         BLM3         9"         FAIR         Y         Dripline           Ash         ASH2         8"         FAIR         Y         Dripline           Ash         ASH2         8"         FAIR         Y         Dripline           Ash         ASH4         10"         FAIR         Y <td>closure and regeneration. Minimize damage by keeping the plants well-watered before and after digging; and covering exposed roots with soil, mulch, or damp burlap as soon as possible. <b>Retention trees:</b> SPECIES         TREE         DIAMETER         GENERAL         VIABLE         CRZ           Western Red Cedar (<i>Thuja</i>         THUJA1         15"         GOOD         Y         Dripline           Cedar         THUJA2         18"         GOOD         Y         Dripline           Cedar         THUJA3         30"         GOOD         Y         Dripline           Cedar         THUJA3         30"         GOOD         Y         Dripline           Cedar         THUJA6         15"         GOOD         Y         Dripline           Doug Fir         D3         23"         GOOD         Y         Dripline           Maple         BLM3         9"         FAIR         Y         Dripline           Maple         BLM8         7"         FAIR         Y         Dripline           Ash         ASH2         8"         FAIR         Y         Dripline           Ash         ASH2         8"         FAIR         Y         Dripline           Maple         BLM3         9"         FAIR         Y         Dripli</td> <td>closure and regeneration. Minimize damage by keeping the plants well-watered before and after digging; and covering exposed roots with soil, mulch, or damp burlap as soon as possible. Retention trees: Retention trees:       TREE       DIAMETER       GENERAL       VIABLE       CRZ         Western Red Cedar (<i>Thuja</i>       THUJA1       15"       GOOD       Y       Dripline         Cedar       THUJA2       18"       GOOD       Y       Dripline         Cedar       THUJA3       30"       GOOD       Y       Dripline         Cedar       THUJA3       15"       GOOD       Y       Dripline         Cedar       THUJA3       30"       GOOD       Y       Dripline         Doug Fir       DF2       9"       GOOD       Y       Dripline         Doug Fir       DF4       10"       GOOD       Y       Dripline         Maple       BLM3       9"       FAIR       Y       Dripline         Ash       ASH2       8"       FAIR       Y       Dripline         Ash       ASH11       8"       FAIR       Y       Dripline         Ash       ASH2       8"       FAIR       Y       Dripline         Ash       ASH11       8"       FAIR       Y</td> <td>closure and regeneration. Minimize damage by keeping the plants well-watered before and after digging; and covering exposed roots with soil, mulch, or damp burlap as soon as possible.Retention trees:SPECIESTREE TAGGDIAMETER HEALTHWestern Red Cedar (Thuja plicata)THUJA1 15"GOOD YDripline CedarCedarTHUJA2 18"GOOD YDripline CedarCedarTHUJA3 30"GOOD YDripline CedarCedarTHUJA3 15"GOOD YDripline CedarDoug FirDF410"Doug FirDF4GOOD YDripline Tree Doug Fir (DF3) can be retained and p dripline.Doug FirDF4GOOD YDripline Tred iusMapleBLM89"GOODYDripline AshAshASH3G"AshASH3G"Diame The Doug FirDF410"Doug FirDF410"Doug FirDF410"AshASH3G"<td>closure and regeneration. Minimize damage by keeping the plants well-watered before and after digging; and covering exposed roots with soil, mulch, or damp burlap as soon as possible.Retention trees:SPECIESTREE TAG#DIAMETER HEALTHWestern Red Cedar (<i>Thuja</i> <i>plicota</i>)THUJA115"GOOD <i>plicota</i>)Origina CedarTHUJA218" GOOD YOrigina CedarCedarTHUJA3THUJA330"GOOD YDripline CedarDoug FirD323"GOOD YDripline Tree Doug Fir (DF3) can be retained and preserved d dripline. The amount of disturbance represents a ve car tolerate some intrusion as it is of normal vigor at product as much of the dripline as possible. There sh side of the dripline. NO disturbance to the structura radius and no more than 10% of the CR2 should be interrupted and occurs as much of the dripline as possible. There sh side of the dripline. NO disturbance to the structura radius and no more than 10% of the CR2 should be interrupted and adequate water during the dry season. Upon com monitored for the two following growing seasons toMapleBLM89"FAIR FAIR YDripline Dripline AshASH128"FAIR FAIR YDripline Dripline AshAshASH128"FAIR FAIR YDripline Dripline AshASH128"FAIR FAIR YDripline Dripline AshAshASH128"FAIR<br <="" td=""/><td>Closure and regeneration. Minimize damage by keeping the plants well-watered before and after digging; and covering exposed roots with soil, mulch, or damp burlap as soon as possible.The extention trees:SPECIESTREEDIAMETER TAG#GOOD TOPICIPUTERWestern Red Cedar (Thuja plicato)THUIA1 15"GOOD TOPICIPUTERCedarTHUIA2 18"GOOD TOPICIPUTERCedarTHUIA3 15"GOOD TOPICIPUTERCedarTHUIA3 15"GOOD TOPICIPUTERCedarTHUIA3 15"GOOD TOPICIPUTERCedarTHUIA3 30"GOOD TOPICIPUTERDoug FirDF29"GOOD TOPICIPUTERDoug FirDF29"GOOD TOPICIPUTERMapleBLM39"FAIR TTOPICIPUTERAshASPECIESTHUIA218"CedarTHUIA330"Colspan="2"&gt;Colspan="2"&lt;</br></td><td>closure and regeneration. Minimize damage by keeping the plants well-watered before and after digging; and covering exposed roots with soil, mulch, or damp burlap as soon as possible.Retention trees:SPECIESTREE TAG#DIAMETER IFALTHGENERAL VIABLECRZ monitored for the VRZ should be interrupted which is equal to approxima arore than 10% of the CRZ should be interrupted which is equal to approxima after care should include an organic layer of mulch at a depth of 2-3" in the ca adequate water during the dry season. Upon completion of the project tree adequate water during the dry season. Upon completion of the project tree adequate water during the dry season. Upon completion of the project tree adequate water during the dry season. Upon completion of the project tree adequate water during the dry season. Upon completion of the project tree colarCedarTHUJA218"GOOD YDiriplineCedarTHUJA330"GOOD YDiriplineDoug FirDF29"GOOD YDiriplineDoug FirDF29"GOOD YDiriplineDoug FirDF410"GOOD FAIRYDiriplineMapleBLM39"FAIR YPriplineAshASH410"FAIR FAIR YDiriplineAshASH410"FAIR FAIR YDiriplineAshASH410"FAIR FAIR YDiriplineAshASH410"FAIR FAIR YDiriplineAshASH410"FAIR FAIR </td></td></td>	closure and regeneration. Minimize damage by keeping the plants well-watered before and after digging; and covering exposed roots with soil, mulch, or damp burlap as soon as possible. <b>Retention trees:</b> SPECIES         TREE         DIAMETER         GENERAL         VIABLE         CRZ           Western Red Cedar ( <i>Thuja</i> THUJA1         15"         GOOD         Y         Dripline           Cedar         THUJA2         18"         GOOD         Y         Dripline           Cedar         THUJA3         30"         GOOD         Y         Dripline           Cedar         THUJA3         30"         GOOD         Y         Dripline           Cedar         THUJA6         15"         GOOD         Y         Dripline           Doug Fir         D3         23"         GOOD         Y         Dripline           Maple         BLM3         9"         FAIR         Y         Dripline           Maple         BLM8         7"         FAIR         Y         Dripline           Ash         ASH2         8"         FAIR         Y         Dripline           Ash         ASH2         8"         FAIR         Y         Dripline           Maple         BLM3         9"         FAIR         Y         Dripli	closure and regeneration. Minimize damage by keeping the plants well-watered before and after digging; and covering exposed roots with soil, mulch, or damp burlap as soon as possible. Retention trees: Retention trees:       TREE       DIAMETER       GENERAL       VIABLE       CRZ         Western Red Cedar ( <i>Thuja</i> THUJA1       15"       GOOD       Y       Dripline         Cedar       THUJA2       18"       GOOD       Y       Dripline         Cedar       THUJA3       30"       GOOD       Y       Dripline         Cedar       THUJA3       15"       GOOD       Y       Dripline         Cedar       THUJA3       30"       GOOD       Y       Dripline         Doug Fir       DF2       9"       GOOD       Y       Dripline         Doug Fir       DF4       10"       GOOD       Y       Dripline         Maple       BLM3       9"       FAIR       Y       Dripline         Ash       ASH2       8"       FAIR       Y       Dripline         Ash       ASH11       8"       FAIR       Y       Dripline         Ash       ASH2       8"       FAIR       Y       Dripline         Ash       ASH11       8"       FAIR       Y	closure and regeneration. Minimize damage by keeping the plants well-watered before and after digging; and covering exposed roots with soil, mulch, or damp burlap as soon as possible.Retention trees:SPECIESTREE TAGGDIAMETER HEALTHWestern Red Cedar (Thuja plicata)THUJA1 15"GOOD YDripline CedarCedarTHUJA2 18"GOOD YDripline CedarCedarTHUJA3 30"GOOD YDripline CedarCedarTHUJA3 15"GOOD YDripline CedarDoug FirDF410"Doug FirDF4GOOD YDripline Tree Doug Fir (DF3) can be retained and p dripline.Doug FirDF4GOOD YDripline Tred iusMapleBLM89"GOODYDripline AshAshASH3G"AshASH3G"Diame The Doug FirDF410"Doug FirDF410"Doug FirDF410"AshASH3G" <td>closure and regeneration. Minimize damage by keeping the plants well-watered before and after digging; and covering exposed roots with soil, mulch, or damp burlap as soon as possible.Retention trees:SPECIESTREE TAG#DIAMETER HEALTHWestern Red Cedar (<i>Thuja</i> <i>plicota</i>)THUJA115"GOOD <i>plicota</i>)Origina CedarTHUJA218" GOOD YOrigina CedarCedarTHUJA3THUJA330"GOOD YDripline CedarDoug FirD323"GOOD YDripline Tree Doug Fir (DF3) can be retained and preserved d dripline. The amount of disturbance represents a ve car tolerate some intrusion as it is of normal vigor at product as much of the dripline as possible. There sh side of the dripline. NO disturbance to the structura radius and no more than 10% of the CR2 should be interrupted and occurs as much of the dripline as possible. There sh side of the dripline. NO disturbance to the structura radius and no more than 10% of the CR2 should be interrupted and adequate water during the dry season. Upon com monitored for the two following growing seasons toMapleBLM89"FAIR FAIR YDripline Dripline AshASH128"FAIR FAIR YDripline Dripline AshAshASH128"FAIR FAIR YDripline Dripline AshASH128"FAIR FAIR YDripline Dripline AshAshASH128"FAIR<br <="" td=""/><td>Closure and regeneration. Minimize damage by keeping the plants well-watered before and after digging; and covering exposed roots with soil, mulch, or damp burlap as soon as possible.The extention trees:SPECIESTREEDIAMETER TAG#GOOD TOPICIPUTERWestern Red Cedar (Thuja plicato)THUIA1 15"GOOD TOPICIPUTERCedarTHUIA2 18"GOOD TOPICIPUTERCedarTHUIA3 15"GOOD TOPICIPUTERCedarTHUIA3 15"GOOD TOPICIPUTERCedarTHUIA3 15"GOOD TOPICIPUTERCedarTHUIA3 30"GOOD TOPICIPUTERDoug FirDF29"GOOD TOPICIPUTERDoug FirDF29"GOOD TOPICIPUTERMapleBLM39"FAIR TTOPICIPUTERAshASPECIESTHUIA218"CedarTHUIA330"Colspan="2"&gt;Colspan="2"&lt;</br></td><td>closure and regeneration. Minimize damage by keeping the plants well-watered before and after digging; and covering exposed roots with soil, mulch, or damp burlap as soon as possible.Retention trees:SPECIESTREE TAG#DIAMETER IFALTHGENERAL VIABLECRZ monitored for the VRZ should be interrupted which is equal to approxima arore than 10% of the CRZ should be interrupted which is equal to approxima after care should include an organic layer of mulch at a depth of 2-3" in the ca adequate water during the dry season. Upon completion of the project tree adequate water during the dry season. Upon completion of the project tree adequate water during the dry season. Upon completion of the project tree adequate water during the dry season. Upon completion of the project tree adequate water during the dry season. 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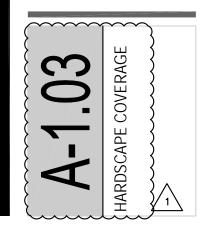




SITE COVERAGE AND HARDSCAPE SCALE: 1/16" = 1'-0"

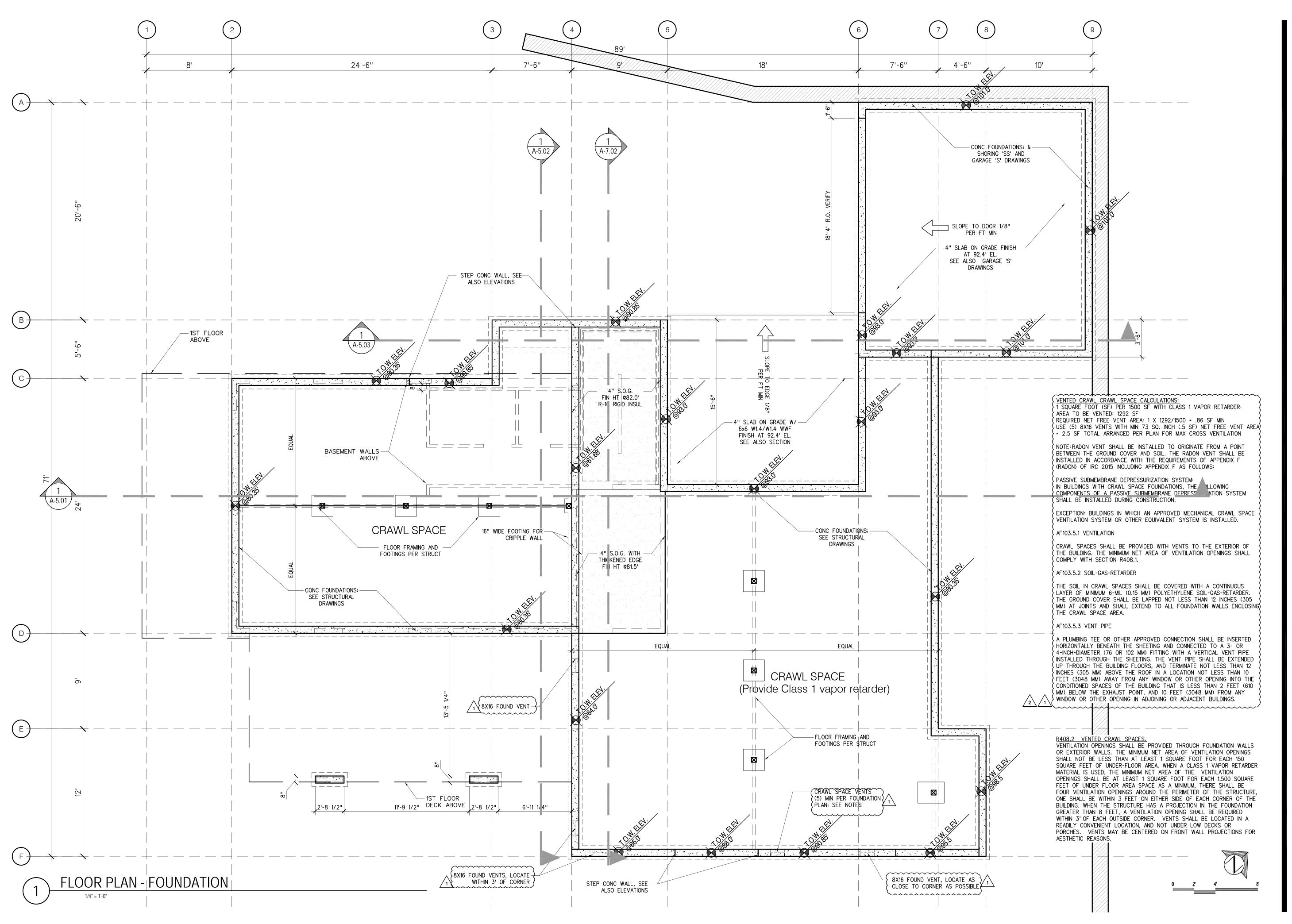
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Less than 15%	40%
15% to less than 30%	35%
30% to 50%	30%
Greater than 50% slope	20%

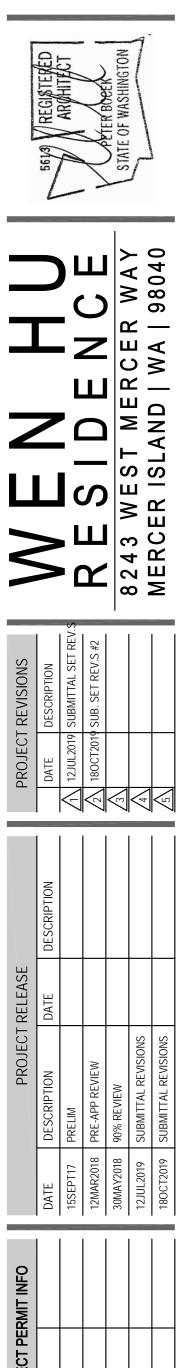
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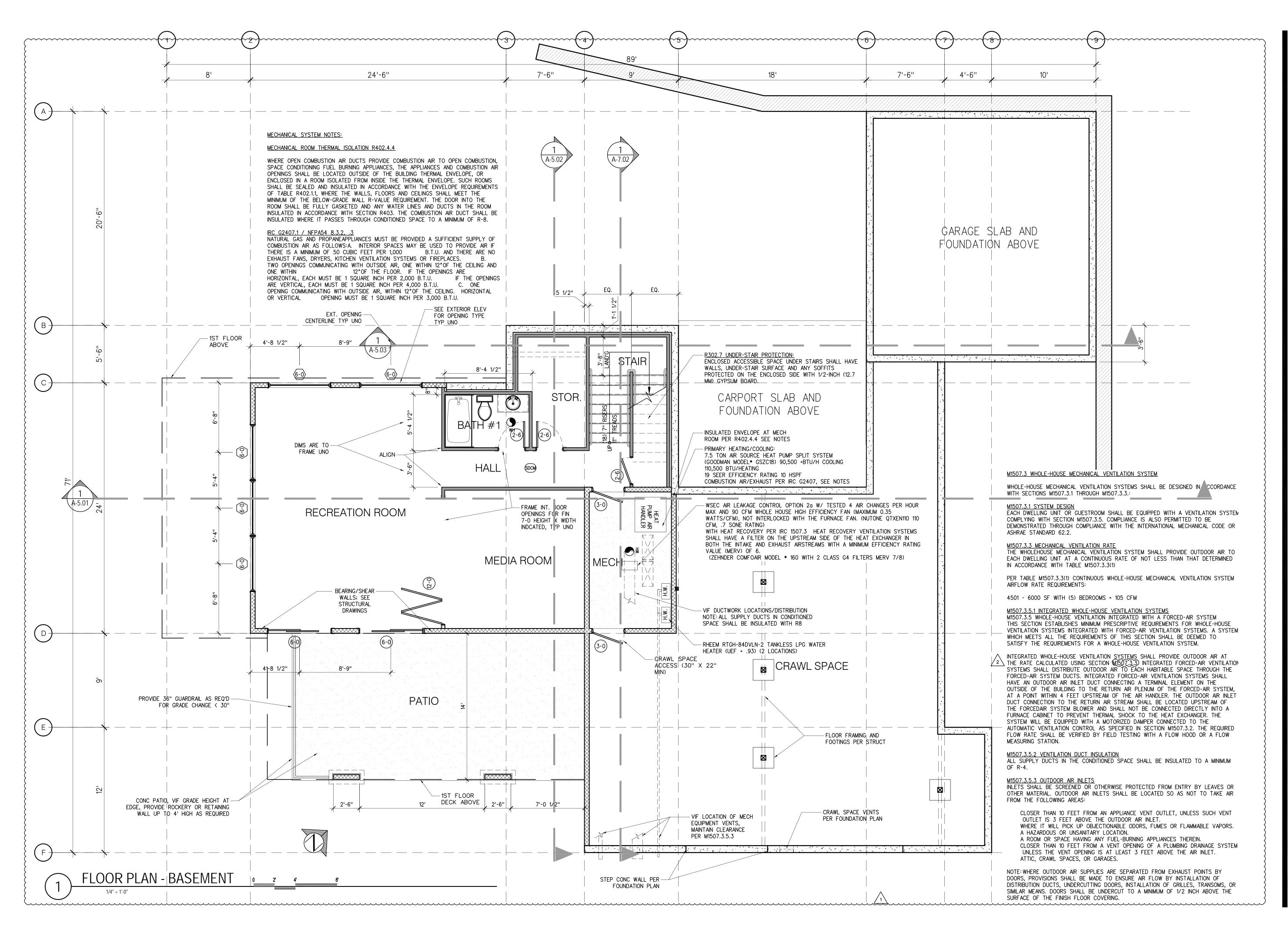
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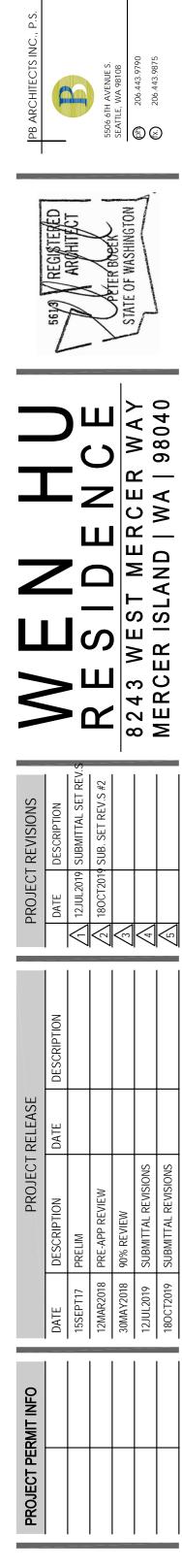
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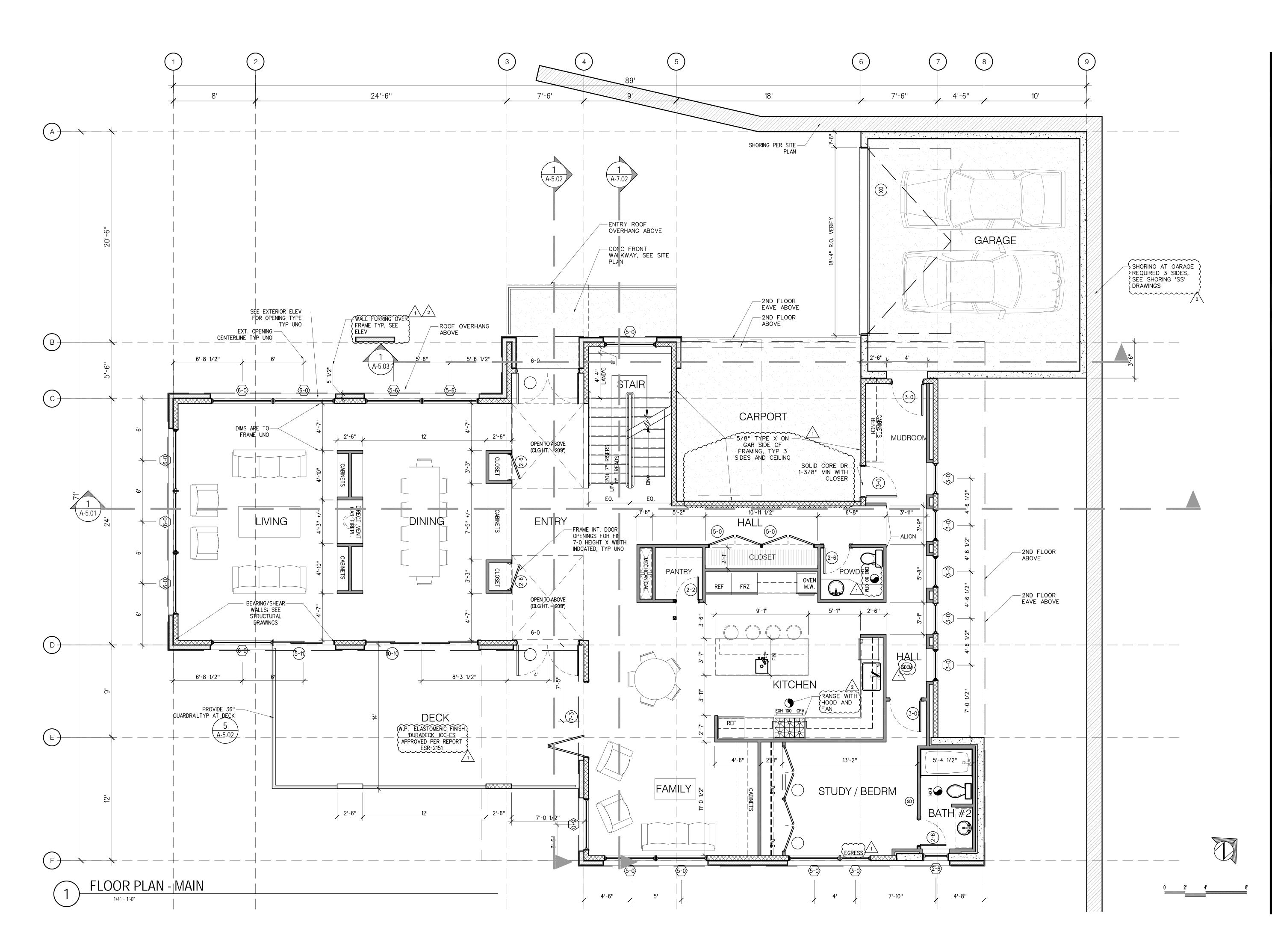






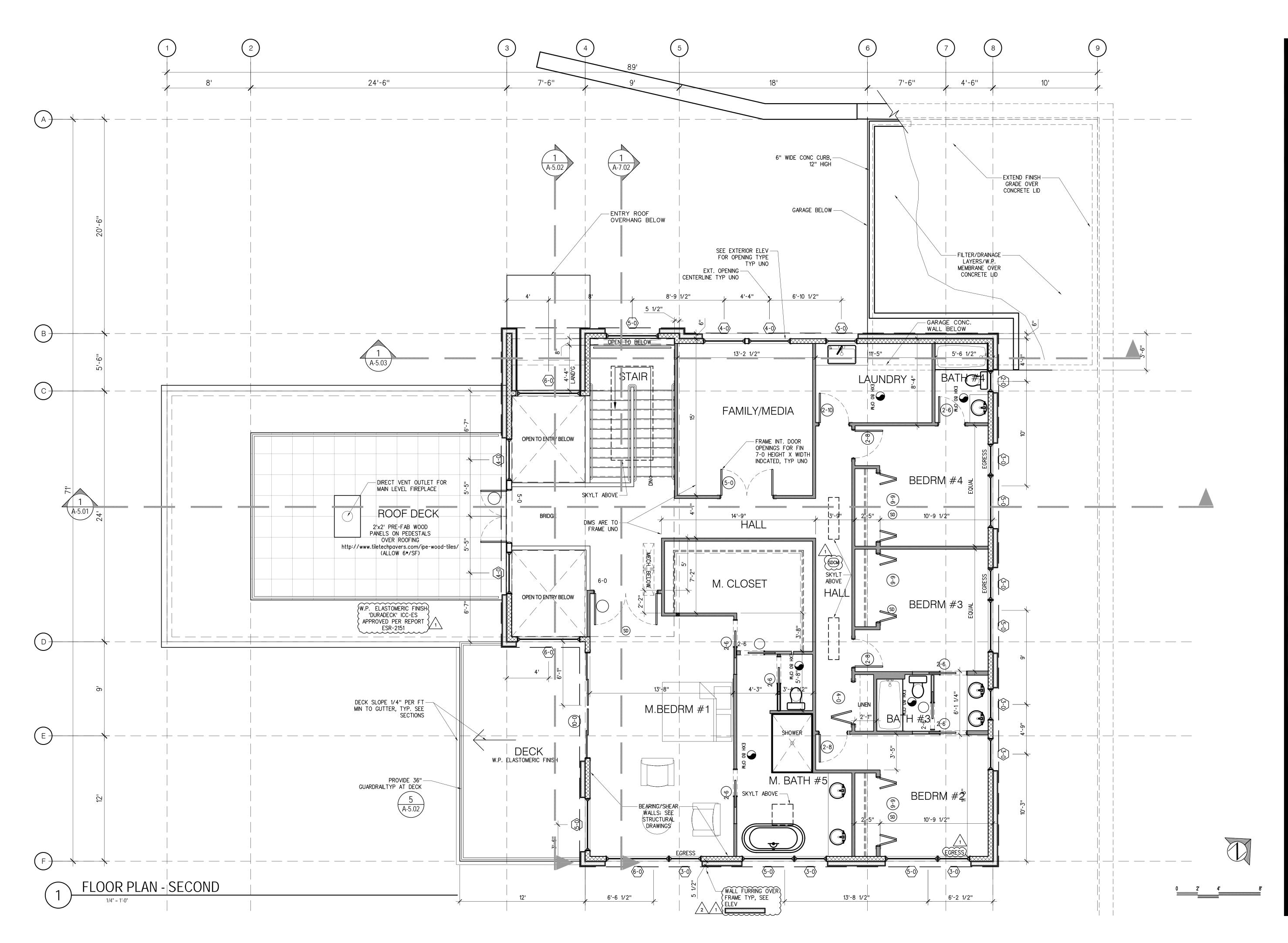




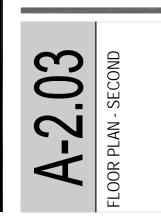


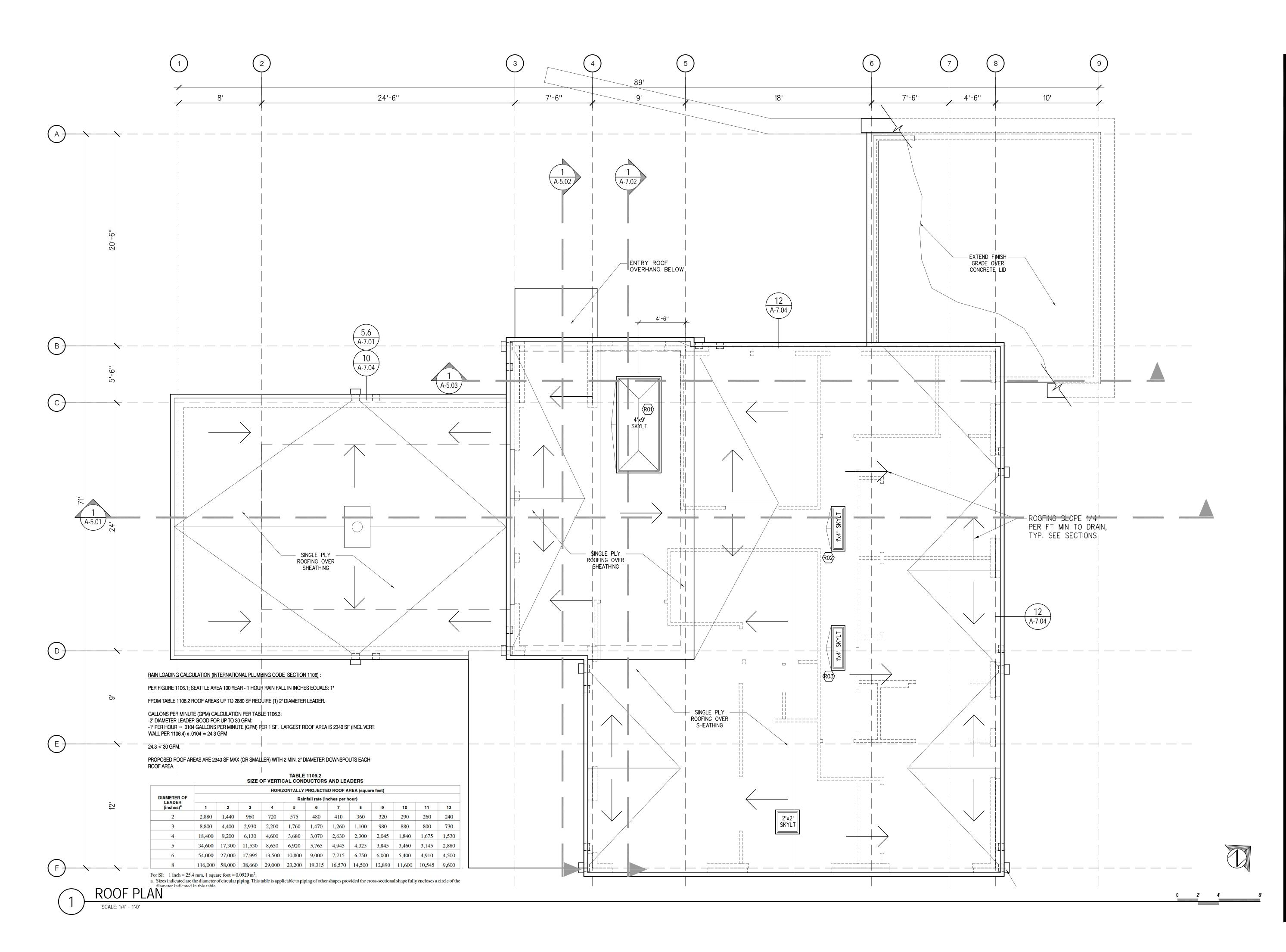
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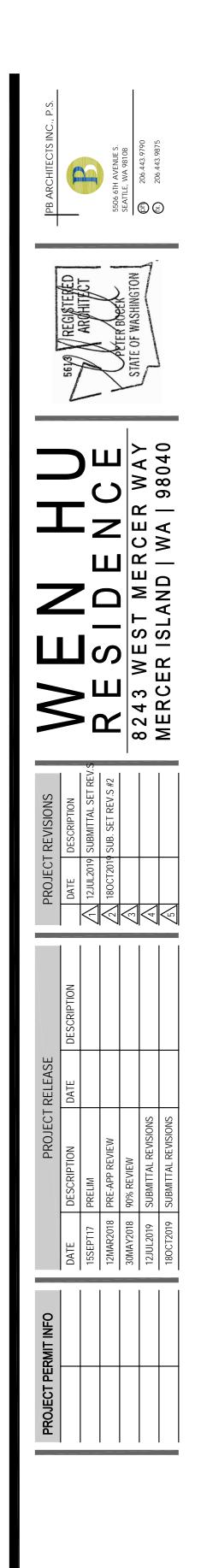
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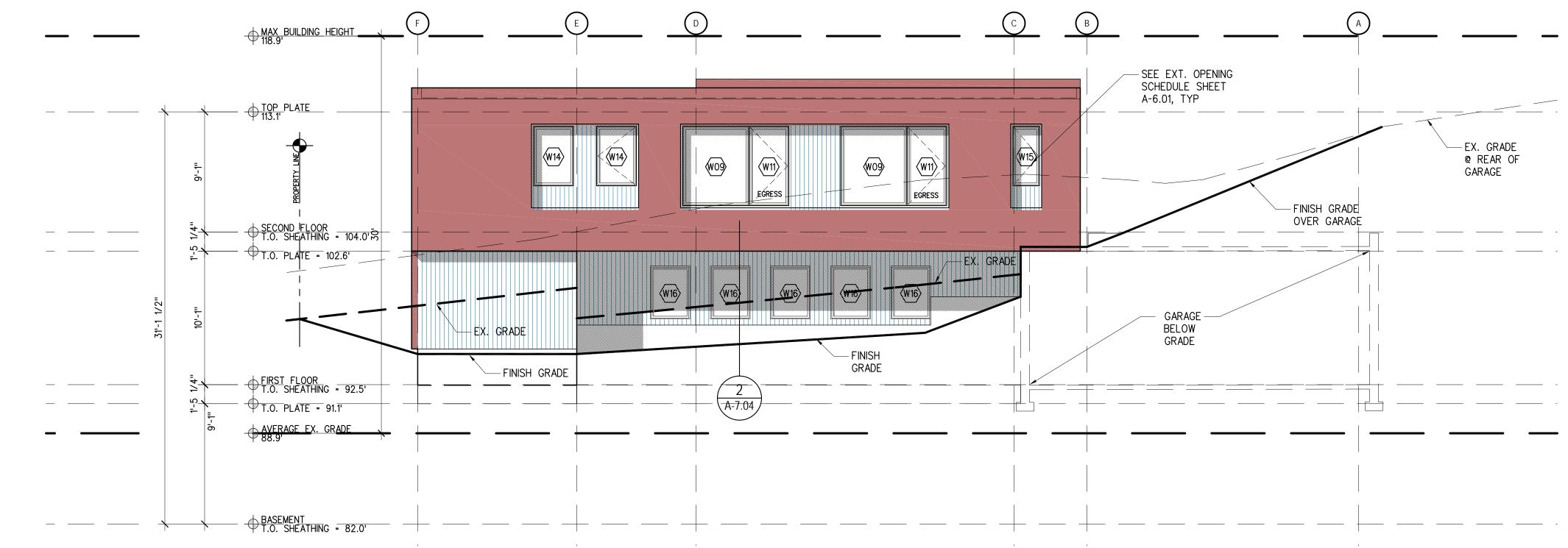








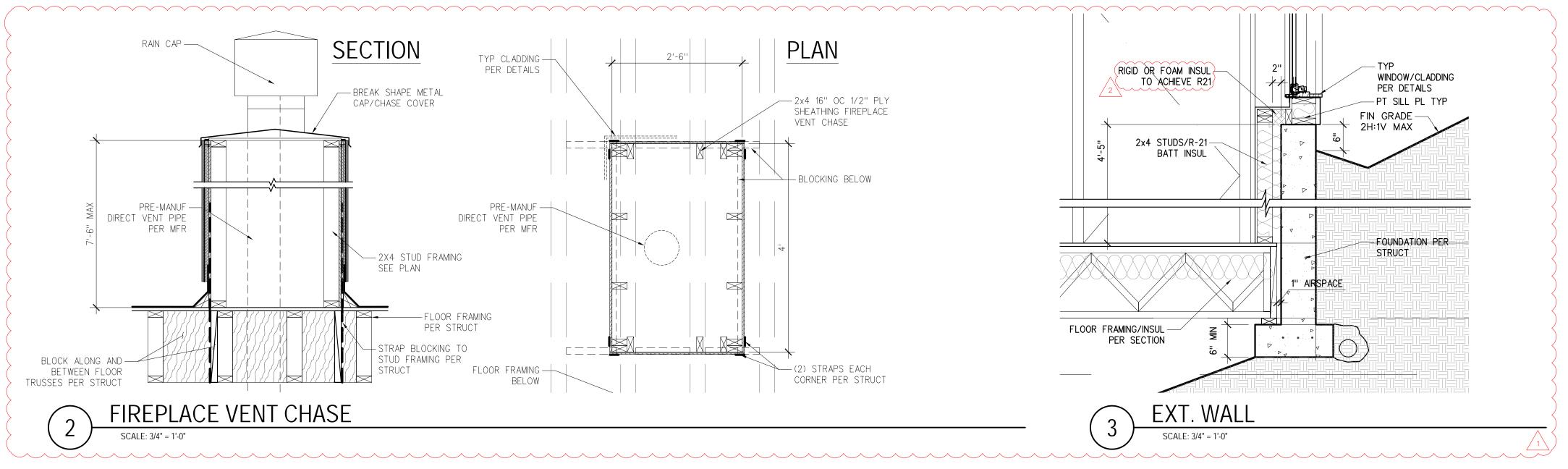


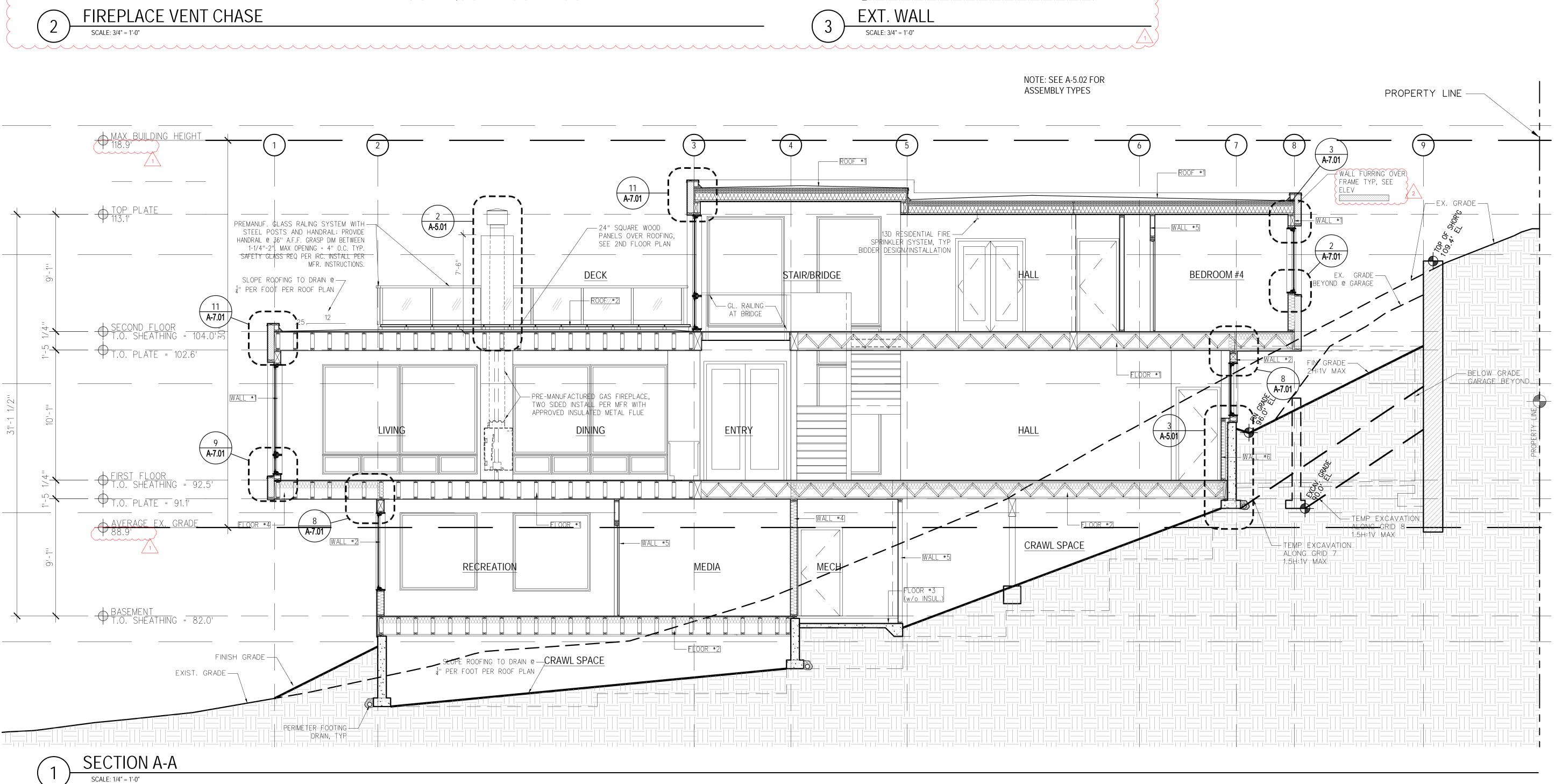


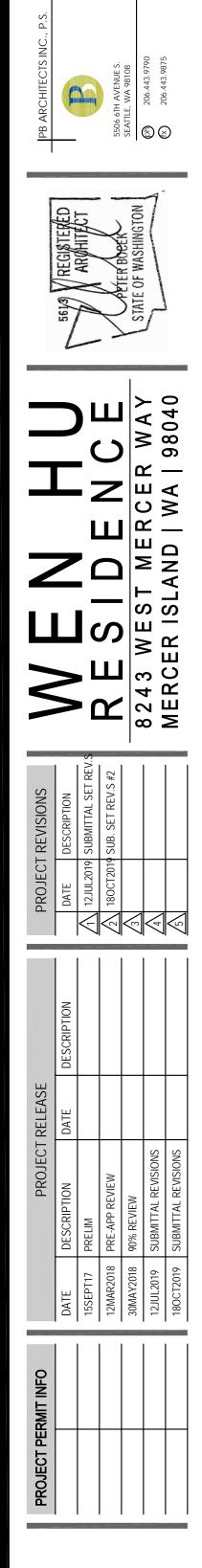


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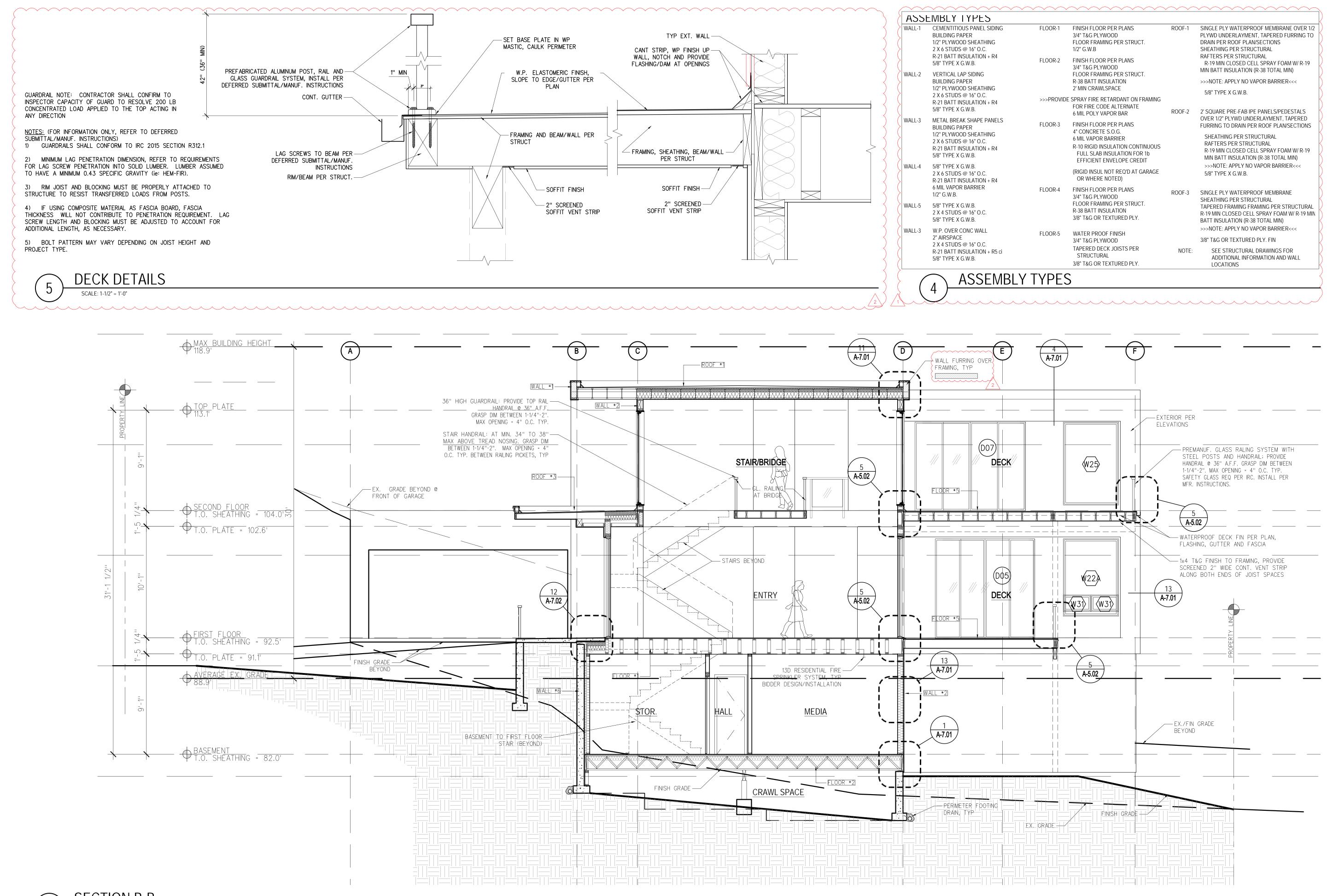




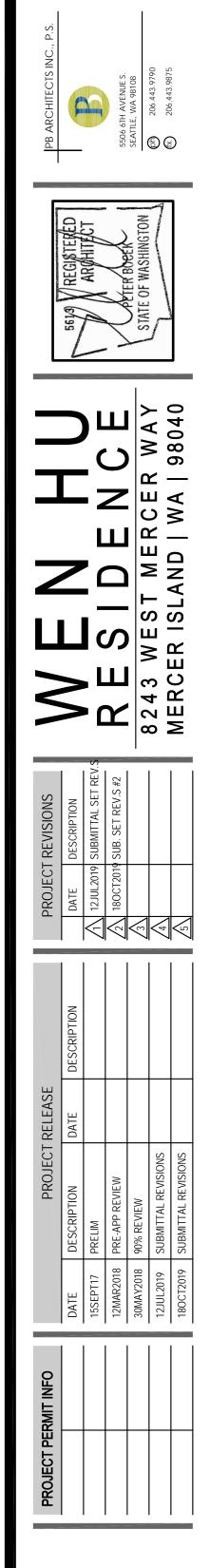




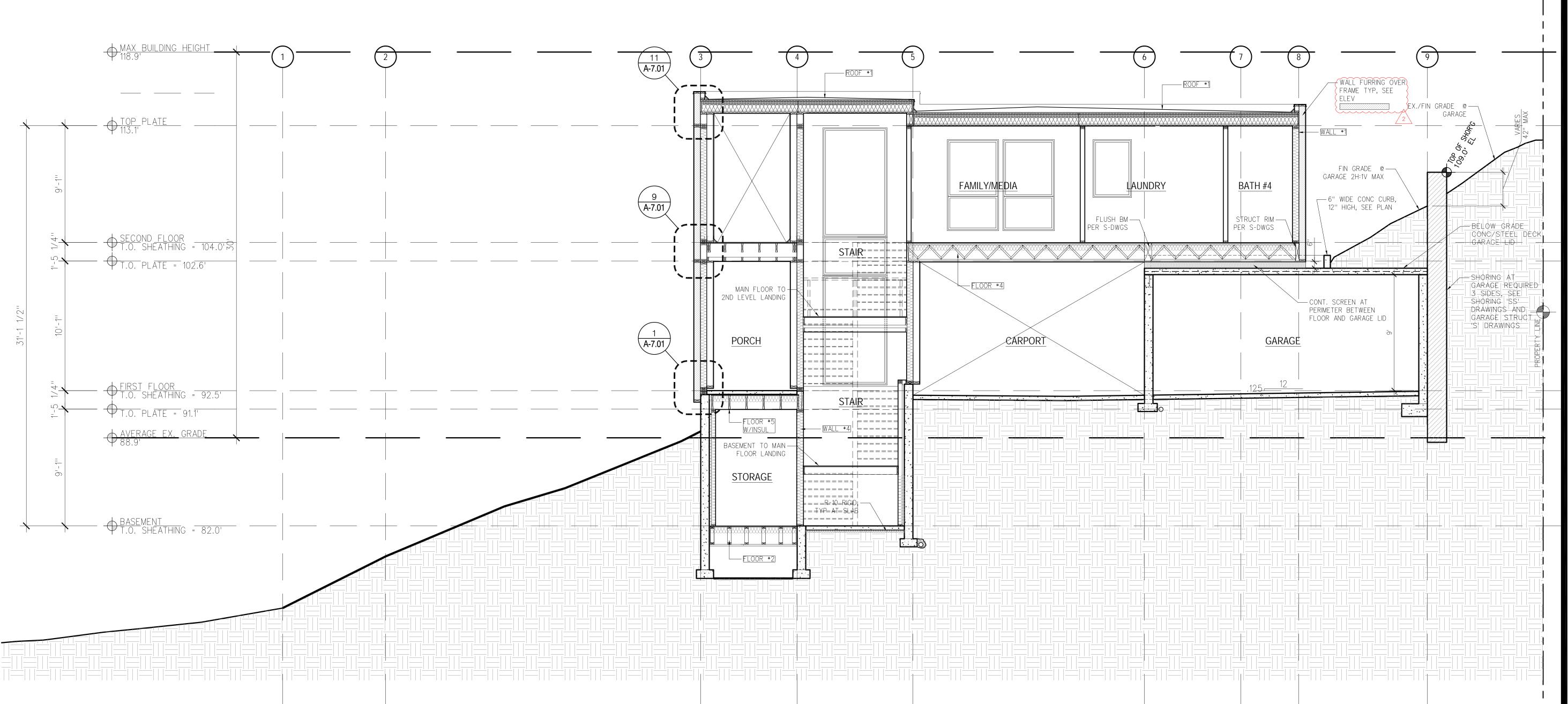


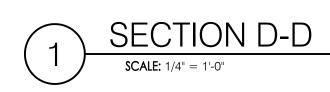


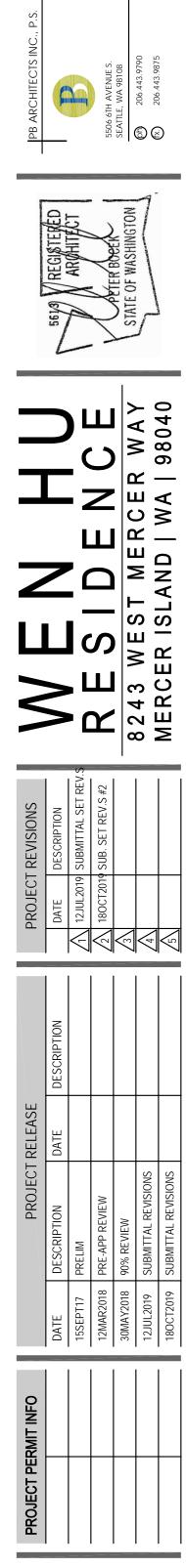


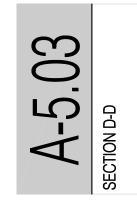












# INTERIOR DOOR SCHEDULE

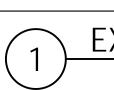
INT DOOR SCHEDULE										
Style	TYPE	Width	Count							
BI-FOLD	4-0	4'-0"	1							
BI-FOLD	6-6	6'-6"	3							
BI-FOLD	12-0	12'-0"	1							
DOOR	2-2	2'-2"	1							
DOOR	2-6	2'-6"	8							
DOOR	2-8	2'-8"	3							
DOOR	2-10	2'-10"	1							
DOOR	3-0	3'-0"	3							
DOUBLE DOOR	5-0	5'-0"	5							
DOUBLE DOOR	6-0	6'-0"	1							
POCKET DOOR	2-6	2'-6"	7							



2

## EXTERIOR SKYLIGHT SCHEDULE

EX	EXTERIOR SKY LIGHT SCHEDULE										
TYPE	STYLE	LENGTH	WIDTH	AREA							
R01	SKYLIGHT	9'-0"	4'-0"	36 SQ. FT.							
2	SKYLIGHT	4'-0"	1'-0"	4 SQ. FT.							
3	SKYLIGHT	4'-0"	1'-0"	4 SQ. FT.							
	•	<u> </u>		44 SQ. FT.							



		EXT	OPENIN	IGS SCH	IEDULE			
OPENING TYPE	TYPE	STYLE	HEIGHT	WIDTH	Count	Area	Safety Glazing	Fall Protectior
Door	D01	Double	9'-0"	6'-0"	2	108.00	Х	
Door	D02	Double Sliding	9'-0"	11'-10"	1	106.50	Х	
Door	D03	Single Sliding	9'-0"	6'-0"	1	54.00	Х	
Door	D04	Single Sliding	8'-0"	6'-0"	2	96.00	Х	
Door	D05	Double Sliding	9'-0"	9'-0"	1	81.00	Х	
Door	D06	Double	8'-0"	5'-0"	1	40.00	Х	
Door	D07	Double Sliding	8'-0"	10'-0"	1	80.00	Х	
Door	D08	Single	8'-0"	3'-0"	1	24.00	Х	
Door	D09	Garage Door	8'-0"	18'-0"	1	144.00	Х	
Window	W01	FIXED	8'-6"	6'-0"	2	102.00		
Window	W02	FIXED	8'-6"	5'-0"	2	85.00		
Window	W03	FIXED	7'-6"	6'-0"	3	135.00	Х	
Window	W04	FIXED	7'-6"	5'-0"	1	37.50		
Window	W05	FIXED	7'-6"	4'-0"	2	60.00		
Window	W06	FIXED	7'-0"	6'-0"	8	336.00		
Window	W07	FIXED	7'-0"	5'-0"	4	140.00		
Window	W08	CASEMENT	7'-0"	3'-0"	1	21.00		
Window	W09	FIXED	6'-0"	5'-0"	4	120.00		
Window	W10	FIXED	6'-0"	6'-0"	3	108.00		
Window	W11	CASEMENT	6'-0"	3'-0"	5	90.00		
Window	W13	CASEMENT	4'-6"	4'-0"	1	18.00		
Window	W13	FIXED	4'-6"	4'-0"	1	18.00		
Window	W14	FIXED	4'-6"	3'-0"	3	40.50		
Window	W15	FIXED	4'-6"	2'-0"	1	9.00		
Window	W16	FIXED	4'-0"	3'-0"	5	60.00		
Window	W17	CASEMENT	4'-0"	2'-6"	1	10.00		
Window	W18	FIXED	3'-0"	5'-0"	1	15.00		
Window	W19	AWNING	3'-0"	4'-0"	1	12.00		
Window	W19	FIXED	3'-0"	4'-0"	1	12.00		Х
Window	W20	AWNING	1'-6"	3'-0"	3	13.50		Х
Window	W20	FIXED	1'-6"	3'-0"	16	72.00		Х
Window	W21	FIXED	1'-6"	2'-6"	6	22.50		Х
						2,270.50		

9	, ····
(	1) <u>"EGRESS" WINDOWS NOTED ON PLAN/ELEV PER IRC R310.2:</u>
ì	MINIMUM NET CLEAR OPENABLE AREA OF 5.7 SQ. FT. ELSEWHERE, AND
(	MINIMUM NET CLEAR OPENABLE WIDTH OF 20", AND
(	MINIMUM NET CLEAR OPENABLE HEIGHT OF 24", AND
(	BOTTOM OF THE CLEAR OPENING NOT GREATER THAN 44".
ì	2) SAFETY GLAZING: PROVIDE SAFETY GLAZING PER IRC R308 AND SPECIFICALLY IN WINDOWS PER BELOW:
(	R308.4.3 GLAZING IN WINDOWS; GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE 👘 💈
(	FOLLOWING CONDITIONS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION:
(	THE EXPOSED AREA OF AN INDIVIDUAL PANE IS LARGER THAN 9 SQUARE FEET (0.836 M2),
ì	THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES (457 MM) ABOVE THE FLOOR,
(	THE TOP EDGE OF THE GLAZING IS MORE THAN 36 INCHES (914 MM) ABOVE THE FLOOR; AND
(	$\lesssim$ ONE OR MORE WALKING SURFACES ARE WITHIN 36 INCHES (914 MM), MEASURED HORIZONTALLY AND IN A STRAIGHT $\gtrsim$
	LINE, OF THE GLAZING.

# EXTERIOR OPENINGS SCHEDULE

DT GREATER THAN 44". <u>ETY GLAZING PER IRC R308 AND SPECIFICALLY IN WINDOWS PER BELOW:</u> ZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE CONSIDERED TO BE A HAZARDOUS LOCATION: IAL PANE IS LARGER THAN 9 SQUARE FEET (0.836 M2), G IS LESS THAN 18 INCHES (457 MM) ABOVE THE FLOOR, MORE THAN 36 INCHES (914 MM) ABOVE THE FLOOR; AND ARE WITHIN 36 INCHES (914 MM), MEASURED HORIZONTALLY AND IN A STRAIGHT

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						MERCER ISLAND   WA   98040
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PROJECT RELEASE	DESCRIPTION DATE	PRELIM	PRE-APP REVIEW	90% REVIEW	SUBMITTAL REVISIONS	SUBMITTAL REVISIONS
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PROJECT PERMIT INFO						

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I SE	OPME 36TH S 206.27	INT SERVICES	GROUP SLAND, W.	A 98040			THE CENT	A A A A A A A A A A A A A A A A A A A		1a	EFFICIENT BUILDING ENVELOPE Vertical fenestration U = 0.28 Floor R-38 Slab on grade R-10 perimeter ar <u>OR</u> Compliance based on Sectio
IN	201	S WSEC & I TION IN THES heets has been develo	RC Vei E works	ntilatio HEETS M	ON WORK	sheet	(Effective J	UCTION DO	CUMENTS	1b	EFFICIENT BUILDING ENVELOPE Vertical fenestration U = 0.25 Wall R-21 plus R-4 Floor R-38 Basement wall R-21 int plus R-5 Slab on grade R-10 perimeter ar <u>OR</u> Compliance based on Sector
		ing worksheets provid wn on the drawings.	e much of t	he required	documentation	n for plan re	eview. The details, sy	stems, and ratin	ngs noted here		EFFICIENT BUILDING ENVELOPE Prescriptive compliance is base Ceiling and single-rafter or joist
RESC	RIPTI	VE ENERGY COD	E COMPL	IANCE F						1c	Floor R-38 Basement wall R-21 int plus R-1
Comp	onent	Fenestration <sup>1</sup> Vertical Overhead	Ceiling w/ Attic	Vaulted Ceiling	Wood Framed Wall (Int.)²	Mass Wall (Above grade)	Below-Grade Wall	2,3 Framed Floor	Slab R-Value & Depth		Slab on grade R-10 perimeter a <u>OR</u> Compliance based on Section
Value		U. 0.30 U. 0.50 max. max.	R-49 min.	R-38 min.	R-21 min.	R-21 min.			R-10 min. 2'	1d	EFFICIENT BUILDING ENVELOPE Prescriptive compliance is based option may not use Option 1a, 1
10/15/ insu with brea	/21+TB" n Ilation plu h R-13 cav ak betwee	e framing) denotes stana neans R-10 continuous in s a thermal break betwee ity insulation on the inter n ficor slab and basemer se Ventilation (P	sulation on the en the slab and ior of the base it wall.	e exterior of th d the basemen ement wall plu	he wall, or R-15 c at wall at the inte	on the continu erior of the be	ious insulation on the int asement wall. "10/15/21	+TB" shall be perm	mitted to be met	2a	AND All whole house ventilation with a high efficiency fan (maxin an ECM motor are allowed, pro To qualify to daim this credit, t tested building air leakage and AIR LEAKAGE CONTROL AND EF
F L	Please ch be using landout.)	neck the appropriate AND fill in the requi A complete system requi	box to des red whole I red by one of	cribe which house venti	lation rate in	CFM's. (See	"2015 Residential Whol			2b	Compliance based on Section R4 <u>AND</u> All whole house ventilation a heat recovery ventilationsyste
			IMETHOD					Whole Hou Ventilation			<mark>tested building air leakage and</mark>
		nittent Whole House	Ventilation	Contraction and a sub-statistical sec		Sector and the sec	and a support of the	Ventilation			tested building oir leakage and AIR LEAKAGE CONTROL AND EI Compliance based on Section R
	Intern	nittent Whole House	Ventilation Ventilation	Integrated	with a Forced	Air Syster	m. (IRC M1507.3.5)	Ventilation		2c	tested building air leakage and AIR LEAKAGE CONTROL AND EI Compliance based on Section R AND All whole house ventilatio with a heat recovery ventilation
	Intern Intern		Ventilation Ventilation Ventilation	Integrated using a Sup	with a Forced oply Fan. (IRC	Air Syster M1507.3.	n. (IRC M1507.3.5) 6)	Ventilation )		2c	tested building air leakage and AIR LEAKAGE CONTROL AND EI Compliance based on Section R <u>AND</u> All whole house ventilation with a heat recovery ventilation To qualify to daim this credit, t tested building air leakage and
Re	Intern Intern Intern equired in ater vapo	nittent Whole House nittent Whole House	Ventilation Ventilation Ventilation Ventilation tillation & om, water cl roduced. (IR	Integrated using a Sup Using a Hea <b>&amp; Fan Effi</b> loset compar C M 1507.4)	with a Forced oply Fan. (IRC at Recovery V ciency rtment, laundr	Air Syster M1507.3. Ventilation	n. (IRC M1507.3.5) 6) System (IRC M1507.	Ventilation ) 3.7) pa and other roo	oms where	2c □ 3a	tested building air leakage and AIR LEAKAGE CONTROL AND EI Compliance based on Section R <u>AND</u> All whole house ventilation with a heat recovery ventilation To qualify to daim this credit, a tested building air leakage and HIGH EFFICIENCY HVAC EQUIP Gas, propane or oil-fired furnad Projects may only include credit two furnaces) both must meet To qualify to daim this credit, a
Re	Intern Intern Intern equired in ater vapo	nittent Whole House nittent Whole House nittent Whole House Cific Exhaust Ver n each kitchen, bathro or or cooking odor is p fm require makeup air	Ventilation Ventilation Ventilation Ventilation <b>tilation 8</b> om, water cl roduced. (IR per IRC M 1 mum Sour	Integrated using a Sup Using a Hea <b>&amp; Fan Effi</b> loset compar C M 1507.4) 503.4 <b>cce Specifi</b>	with a Forced oply Fan. (IRC at Recovery V ciency rtment, laundr Fan efficiency c Ventilation	Air Syster M1507.3. Ventilation y room, ind from WAC	n. (IRC M1507.3.5) 6) System (IRC M1507. oor swimming pool, s 51-11R – Table R403.0 <b>/ Requirements</b>	Ventilation Ventilation	oms where ods greater		tested building air leakage and AIR LEAKAGE CONTROL AND EF Compliance based on Section Re AND All whole house ventilation with a heat recovery ventilation To qualify to daim this credit, t tested building air leakage and HIGH EFFICIENCY HVAC EQUIPT Gas, propane or oil-fired furnace Projects may only include credit two furnaces) both must meet t To qualify to daim this credit, t equipment type and the minimum HIGH EFFICIENCY HVAC EQUIPT
Re	Intern Intern Intern equired in ater vapo an 400 c	hittent Whole House hittent Whole House hitten House hitten Whole House hitten House hitten House h	Ventilation Ventilation Ventilation Ventilation <b>tilation 8</b> om, water cl roduced. (IR per IRC M 1 mum Sour	Integrated using a Sup Using a Hea <b>&amp; Fan Effi</b> loset compar C M 1507.4) 503.4 <b>cce Specifi</b> <b>Sathrooms</b> – 50 cfi	with a Forced oply Fan. (IRC at Recovery V ciency rtment, laundr Fan efficiency c Ventilation Utility Rooms m min	Air Syster M1507.3. Ventilation y room, ind from WAC	n. (IRC M1507.3.5) 6) System (IRC M1507. oor swimming pool, s 51-11R – Table R403.0 7 Requirements Kitchens 100 cfm min	Ventilation ) 3.7) pa and other roo	oms where ods greater	3a	tested building air leakage and AIR LEAKAGE CONTROL AND EI Compliance based on Section R <u>AND</u> All whole house ventilation with a heat recovery ventilation To qualify to daim this credit, a tested building air leakage and HIGH EFFICIENCY HVAC EQUIP Gas, propane or oil-fired furnac Projects may only include credit two furnaces) both must meet To qualify to daim this credit, a equipment type and the minim HIGH EFFICIENCY HVAC EQUIP Air-source heat pump with min When a housing unit has two p
Re wa th	Intern Intern Intern equired in ater vapo an 400 c	nittent Whole House nittent Whole House nittent Whole House cific Exhaust Ver n each kitchen, bathro or or cooking odor is p fm require makeup air Mini	Ventilation Ventilation Ventilation Ventilation <b>tilation 8</b> om, water cl roduced. (IR per IRC M19 mum Sour E 1.4 cfm	Integrated using a Sup Using a Hea <b>&amp; Fan Effi</b> loset compar C M 1507.4) 503.4 <b>cce Specifi</b> <b>athrooms</b> – 50 cfi 20 cfi m/watt if	with a Forced oply Fan. (IRC at Recovery V ciency rtment, laundr Fan efficiency c Ventilation Utility Rooms m min m min 2.8 cfm/w	Air Syster M1507.3. Ventilation y room, ind from WAC	n. (IRC M1507.3.5) 6) System (IRC M1507. oor swimming pool, s 51-11R – Table R403.0 7 Requirements Kitchens	Ventilation Ventilation	oms where ods greater	3a	tested building air leakage and AIR LEAKAGE CONTROL AND EF Compliance based on Section RA <u>AND</u> All whole house ventilation with a heat recovery ventilation To qualify to daim this credit, t tested building air leakage and HIGH EFFICIENCY HVAC EQUIPM Gas, propane or oil-fired furnaco Projects may only include credit two furnaces) both must meet t To qualify to daim this credit, t equipment type and the minimum HIGH EFFICIENCY HVAC EQUIPM Air-source heat pump with mini When a housing unit has two pi To qualify to daim this credit, t equipment type and the minimum
Re wa th	Intern Intern Intern Intern equired in ater vapo an 400 ct Intern Cont Minimum Welling ddits as o	hittent Whole House hittent Whole House hittent Whole House hittent Whole House hittent Whole House hittent Whole House hittent Ver he each kitchen, bathro or or cooking odor is p fm require makeup air Mini hittently operating hintuous operation m Efficacy (cfm/watt) hittent (cf	Ventilation Ventilation Ventilation Ventilation Itilation & om, water cl roduced. (IR per IRC M1! mum Sour I.4 cfn <5 1.4 cfn	Integrated using a Sup Using a Hea <b>&amp; Fan Effi</b> loset compar C M 1507.4) 503.4 <b>cce Specific</b> <b>3athrooms –</b> 50 cfr 20 cfr <b>m/watt if</b> 90cfm options fro this page.	with a Forced oply Fan. (IRC at Recovery V ciency rtment, laundr Fan efficiency c Ventilation Utility Rooms m min m min 2.8 cfm/w >90cfm m WSEC Tab	Air Syster M1507.3. Ventilation S y room, ind from WAC <b>n Capacity</b> att if n	n. (IRC M1507.3.5) 6) System (IRC M1507. 5) Soor swimming pool, s 51-11R – Table R403.0 7 7 8 7 8 8 7 8 8 9 9 9 9 9 9 9 9 9 9 9	Ventilation Ventilation Ventilation Ventilation Ventilation Compared to the roc In-line fa In-line	nate	3a	tested building air leakage and AIR LEAKAGE CONTROL AND EF Compliance based on Section RA <u>AND</u> All whole house ventilation with a heat recovery ventilation To qualify to daim this credit, t tested building air leakage and HIGH EFFICIENCY HVAC EQUIPT Gas, propane or oil-fired furnace Projects may only include credit two furnaces) both must meet 1 To qualify to daim this credit, t equipment type and the minim HIGH EFFICIENCY HVAC EQUIPT Air-source heat pump with mini When a housing unit has two pi To qualify to daim this credit, t equipment type and the minim HIGH EFFICIENCY HVAC EQUIPT Closed-loop ground source heat OR Open loop water source heat only include credit from one spa furnaces) both must meet the s To qualify to daim this credit, t
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Re wa th	Intern Intern Intern eguired in ater vapo an 400 ct Interr Cont Minimut Welling edits as o Small squar but le Medi servir	hittent Whole House hittent Whole House hittent Whole House hittent Whole House hittent Whole House hittent Whole House hittent Ver from require makeup air Mini hittently operating hittently operation m Efficacy (cfm/watt) hittently operation m Efficacy (cfm/watt)	Ventilation Ventilation Ventilation Ventilation <b>tilation 8</b> om, water cl roduced. (IR per IRC M1! mum Sour E 1.4 cfr s 5 credits ( oTAL SQU 3.5 credit hall require	Integrated using a Sup Using a Hea <b>&amp; Fan Effi</b> loset compar C M 1507.4) 503.4 <b>cce Specific</b> <b>3athrooms –</b> <b>50</b> cfr <b>20</b> cfr <b>m/watt if</b> <b>00cfm</b> options fro this page. (Dwelling un ditions to ex <b>JARE FEET</b> ts (All dwell e 2.5 credits	with a Forced oply Fan. (IRC at Recovery V ciency rtment, laundr Fan efficiency c Ventilation Utility Rooms m min m min 2.8 cfm/w >90cfm m WSEC Tab nits less than cisting buildin OF FENEST ing units not	Air Syster M1507.3. Ventilation S ventilation S ventilation S ventilation S ventilation S n Capacity att if n le R406.2 s 1500 SF in g that are g that are included in	n. (IRC M1507.3.5) 6) System (IRC M1507. 5) soor swimming pool, s 51-11R – Table R403.0 7 7 8 7 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Ventilation Ventilation Ventilation Ventilation Ventilation Ventilation Cartering Cart	Arrate	3a	To qualify to daim this credit, t tested building air leakage and AIR LEAKAGE CONTROL AND EF Compliance based on Section RA <u>AND</u> All whole house ventilation with a heat recovery ventilation To qualify to daim this credit, t tested building air leakage and HIGH EFFICIENCY HVAC EQUIPM Gas, propane or oil-fired furnace Projects may only include credit two furnaces) both must meet t To qualify to daim this credit, t equipment type and the minimum HIGH EFFICIENCY HVAC EQUIPM Air-source heat pump with mini When a housing unit has two pi To qualify to daim this credit, t equipment type and the minimum HIGH EFFICIENCY HVAC EQUIPM Closed-loop ground source heat only include credit from one spa furnaces) both must meet the si To qualify to daim this credit, t equipment type and the minimum HIGH EFFICIENCY HVAC EQUIPM Closed-loop ground source heat only include credit from one spa furnaces) both must meet the si To qualify to daim this credit, t equipment type and the minimum HIGH EFFICIENCY HVAC EQUIPM Ductless Split System Heat Pum heat pump system shall beinsta one space heating option, 3a, 3 standard to receive the credit. To qualify to daim this credit, t

	te the following information regard e information selected. The paper fo					
	Conditioned Floor Area (sq ft)	5433				
	Average Ceiling Height (ft)	<sub>x</sub> 9.3				
	Conditioned Volume (cuft)	50527				
G lazing and	Doors	U-Factor	x	Area 2270	1.	UA 567.6
Skylights		u= .20 U-Factor	х	Area	sf =	UA
en l'ingine		u= .28		40	sf	11.2
Insulation						
	Attic	U-Factor u= .026	х	Area 2723	= sf	UA 70.79
	Single Rafter or	U-Factor	x	Area	=	UA
	Joist Vaulted Ceilings	u=			sf	
	Above Grade Walls	U-Factor u= .04	x	Area 2883	= sf	UA 115.3
	Floors	U-Factor u= .026	x	Area 2472	= sf	UA 64.27
	Below Grade Walls	U-Factor u= .038	x	Area 477	= sf	UA 18.1
	Slab Below Grade	F-Factor f= .7	x	Length 78	= f	UA 54.6
	Slab on Grade	F-Factor	x	Length	= f	UA
					Sum of UA	901.86
		Envelope Heat Load				41583 Btu / Hour
		Sum of UA x 45				[
		Air Leakage Heat Load Volume x 0.6 x 45 x .018				24556 Btu / Hour
		Building Design Heat Load				65139 Btu / Hour
		Air Leakage Heat Load + Envel	ope Heat	Load		
		Building and Duct Heat Load				71653 Btu / Hour
		Ducts in unconditioned space: Ducts in conditioned space: Bu				
		Maximum Heat Equipment Outp		Segurieat Load X I		100315 Btu / Hour

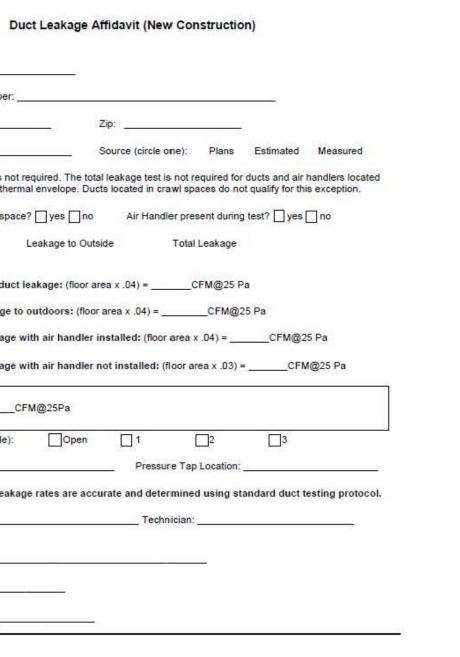
House address or let numb	005
House address or lot numb	Jer.
City:	
Cond. Floor Area (ft <sup>2</sup> ):	
Duct tightness testing is entirely within the building	
Air Handler in conditioned	space? 🗌 yes 🗌
Circle Test Method:	Leakage to (
Maximum duct leakage:	
Post Construction, total	duct leakage: (floo
Post Construction, leaka	ge to outdoors: (f
Rough-In, total duct leak	age with air hand
Steam and a start of the second start of the	age mar an mana
Rough-In, total duct leak	
	age with air hand
Rough-In, total duct leak	age with air hand
Rough-In, total duct leak Test Result:	age with air hand CFM@25Pa le):Ope
Rough-In, total duct leak Test Result: Ring (circle one if applicab	age with air hand CFM@25Pa le):Ope
Rough-In, total duct leak Test Result: Ring (circle one if applicab Duct Tester Location:	age with air hand CFM@25Pa le):Ope eakage rates are a
Rough-In, total duct leak Test Result: Ring (circle one if applicab Duct Tester Location: I certify that these duct le	age with air hand CFM@25Pa le):Ope eakage rates are :
Rough-In, total duct leak Test Result: Ring (circle one if applicab Duct Tester Location: I certify that these duct le Company Name:	age with air hand CFM@25Pa le):Ope eakage rates are a

Energy Code Support

DESCRIPTION	CREDIT(S)
ider entire slab Below grade slab R-10 perimeter and under entire slab. 02.1.4: Reduce the Total UA by 5%.	0.5
nder entire slab Below grade slab R-10 perimeter and under entire slab. 102.1.4: Reduce the Total UA by 15%.	1.0
Table R402.1.1 with the following modifications: Vertical fenestration U = 0.22 ted R-49 advanced Wood frame wall R-21 int plus R-12 ci Ider entire slab Below grade slab R-10 perimeter and under entire slab 02.1.4: Reduce the Total UA by 30%.	2.0
Table R402.1.1 with the following modifications: Vertical fenestration U = 0.24. Projects using this 1c.	0.5
ENT VENTILATION 2a: duce the tested air leakage to 3.0 air changesper hour maximum uirements as determined by Section M1507.3 of the <i>international Residential Code</i> shall be met 0.35 watts/cfm), not interlocked with the furnace fan. Ventilation systems using a furnace including I that they are controlled to operate at low speed in ventilation only mode. wilding permit drawings shall specify the option being selected and shall specify the maximum I show the qualifying ventilation system.	0.5
ENT VENTILATION 2b: I.1.2: Reduce the tested air leakage to 2.0 air changes per hour maximum uirements as determined by Section M1507.3 of the <i>International Residential Code</i> shall be met with ith minimum sensible heat recovery efficiency of 0.70. <i>Wilding permit drawings shall specify the option being selected and shall specify the maximum</i> <i>I show the heat recovery ventilation system</i> .	1.0
ENT VENTILATION 2c: I.1.2: Reduce the tested air leakage to 1.5 air changes per hour maximum. uirements as determined by Section M1507.3 ofthe <i>international Residential Code</i> shall be met em with minimum sensible heat recovery efficiency of 0.85. uilding permit drawings shall specify the option being selected and shall specify the maximum I show the heat recovery ventilation system.	1.5
r 3a: h minimum AFUE of 94%, or Gas, propane or oiled-fired boiler with minimum AFUE of 92%. n one space heating option, 3a, 3b, 3c or 3d. When a housing unit has two pieces of equipment (i.e., tandard to receive the credit. Wilding permit drawings shall specify the option being selected and shall specify the heating quipment efficiency.	1.0
F3b: n HSPF of 9.0. Projects may only include credit from one space heating option, 3a, 3b, 3c or 3d. of equipment (i.e., two furnaces) both must meet the standard to receive the credit. wilding permit drawings shall specify the option being selected and shall specify the heating quipment efficiency.	1.0
F3c: np; with a minimum COP of 3.3 mp with a maximum pumping hydraulic head of 150 feet and minimum COP of 3.6. Projects may eating option, 3a, 3b, 3c or 3d. When a housing unit has two pieces of equipment (i.e., two ard to receive the credit. uilding permit drawings shall specify the option being selected and shall specify the heating quipment efficiency.	1.5
13d: onal Control: In homes where the primaryspace heating system is zonal electric heating, a ductless and provide heating to the largest zone of the housing unit. Projects may only include credit from or 3d. When a housing unit has two pieces of equipment (i.e., two furnaces) both must meet the wilding permit drawings shall specify the option being selected and shall specify the heating quipment efficiency.	1.0

PTION	DESCRIPTION	CREDIT
4	HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEM: All heating and cooling system components installed inside the conditioned space. This includes all equipment and distribution system components such as forcedair ducts, hydronic piping, hydronic floor heating loop, convectors and radiators. All combustion equipment shall be direct vent or sealed combustion. For forced air ducts: A maximum of 10 linear feet of return ducts and 5 linear feet of supply ducts may be located outside the conditioned space. All metallic ducts located outside the conditioned space must have both transverse and longitudinal joints sealed with mastic. If flex ducts are used, they cannot contain splices. Flex duct connections must be made with nylon straps and installed using a plastic strapping tensioning tool. Ducts located outside the conditioned space must be insulated to a minimum of R-8. Locating system components in conditioned crawl spaces is not permitted under this option. Electric resistance heat and ductless heat pumps are not permitted under thisoption. Direct combustion heating equipment with AFUE less than 80% is not permitted under this option. <b>To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the heating equipment type and shall show the location of the heating and cooling equipment and all the ductwork.</b>	1.0
5a	<ul> <li>EFFICIENT WATER HEATING 5a:</li> <li>All showerhead and kitchen sink faucets installed in the house shall be rated at 1.75 GPM or less. All other lavatory faucets shall be rated at 1.0 GPM or less.</li> <li>Plumbing Fixtures Flow Ratings. Low flow plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following requirements:</li> <li>1. Residential bathroom lavatory sink faucets: Maximum flow rate - 3.8 L/min (1.0 gal/min) when tested in accordance with ASME A112.18.1/CSA B125.1.</li> <li>2. Residential kitchen faucets: Maximum flow rate - 6.6 L/min (1.75 gal/min) when tested in accordance with ASME A112.18.1/CSA B125.1.</li> <li>3. Residential showerheads: Maximum flow rate - 6.6 L/min (1.75 gal/min) when tested in accordance with ASME A112.18.1/CSA B125.1.</li> <li>3. Residential showerheads: Maximum flow rate - 6.6 L/min (1.75 gal/min) when tested in accordance with ASME A112.18.1/CSA B125.1.</li> <li>3. Residential showerheads: Maximum flow rate - 6.6 L/min (1.75 gal/min) when tested in accordance with ASME A112.18.1/CSA B125.1.</li> <li>3. Residential showerheads: Maximum flow rate - 6.6 L/min (1.75 gal/min) when tested in accordance with ASME A112.18.1/CSA B125.1.</li> <li>3. Residential showerheads: Maximum flow rate - 6.6 L/min (1.75 gal/min) when tested in accordance with ASME A112.18.1/CSA B125.1.</li> <li>3. Residential showerheads, Kitchen show flow rate - 6.6 L/min (1.75 gal/min) when tested in accordance with ASME A112.18.1/CSA B125.1.</li> <li>4. Residential showerheads, Kitchen show flow gate - 6.6 L/min (1.75 gal/min) when tested in accordance with ASME A112.18.1/CSA B125.1.</li> <li>4. Residential showerheads, Kitchen show flow gate - 6.6 L/min (1.75 gal/min) when tested in accordance with ASME A112.18.1/CSA B125.1.</li> </ul>	0.5
5b	EFFICIENT WATER HEATING 5b: Water heating system shall include one of the following: Gas, propane or oil water heater with a minimum EF of 0.74 <u>OR</u> Water heater heated by ground source heat pump meeting the requirements of Option 3c. <u>OR</u> For R-2 occupancy, a central heat pump water heater with an EF greater than 2.0that would supply DHW to all the units through a ce minimum pipe insulation. 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 theminimum equipment efficiency.	1.0
50	EFFICIENT WATER HEATING 5c: Water heating system shall include one of the following: Gas, propane or oil water heater with a minimum EF of 0.91 <u>OR</u> Solar water heating supplementing a minimum standard water heater. Solar water heating will provide a rated minimum savings of S5 therms or 2000 kWh based on the Solar Rating and Certification Corporation (SRCC) Annual Performance of 0G-300 Certified Solar Water Heating Systems <u>OR</u> Electric heat pump water heater with a minimum EF of 2.0 and meeting thestandards of NEEA's Northern Climate Specifications for Heat Pump Water Heaters 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 theminimum equipment efficiency and, for solar water heating systems, the calculation of the minimum energy savings.	1.5
5d	EFFICIENT WATER HEATING 5d: A drain water heat recovery unit(s) shall be installed, which captures waste water heat from all the showers, and has a minimum efficiency of 40% if installed for equalflow or a minimum efficiency of 52% if installed for unequal flow. Such units shall be rated in accordance CSA B55.1 and be so labeled. To qualify to claim this credit, the building permit drawings shall include a plumbing diagram that specified the drain water heat recovery units and the plumbing layout needed to install it and labels or other documentation shall be provided that demonstrates that the unit complies with the standard.	0.5
6	RENEWABLE ELECTRIC ENERGY: For each 1200 kWh of electrical generation per each housing unit provided annually by on-site wind or solar equipment a 0.5 credit shall be allowed, up to 3 credits. Generation shall be calculated as follows: For solar electric systems, the design shall be demonstrated to meet this requirement using the National Renewable Energy Laboratory calculator PVWATTs. Documentation noting solar access shall be included on the plans. For wind generation projects designs shall document annual power generation based on the following factors: The wind turbine power curve; average annual wind speed at the site; frequency distribution of the wind speed at the site and height of the tower. To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the photovoltaic or wind turbine equipment type, provide documentation of solar and wind access, and include a calculation of the minimum annual energy power production.	0.5

WASHINGTON STATE UNIVERSITY



Certificate (Electronic version available at: http://www.enerov.wsu.edu/Documents/WSEC-2012-Averv-6878 4 Per Sheet.pdf)

A permanent certificate shall be posted within three feet of the electrical distribution panel. The certificate shall be completed by the builder or registered design professional and include all of the information as follows:

	ioned Floor A or registered		n professio		te: _	/	1
Signatu	ire:						
			R-Va	lues			
Ceiling:	Vaulted	R	Floors:	Over uncond	itione	d space	e R
	Attic	R		Slab o	on gra	de floo	r R
Walls:	Above grade	R	Doors:				R
	Below, int.	R					R
	Below, ext.	R					R
		1	U-Factors a				
	ating (or)			ndows U	_	SHC	GC- N/A
Default	rating (Appendix	A WSEC	2012) Sky	lights U-		SHC	iC- N/A
Table 4	06.2 Option(s)	)	8	Total 406.	2 Crea	dits	
	Hee	ting, C	Cooling & 1	Domestic Hot	Water	. –	
System	1		Туре			T	Efficiency
Heating			0.05				
Cooling	ç.						
DHW							
	- 22	Duc	t & Buildin	g Air Leakage			
All duct	ts & HVAC in	condit	ioned space	e (yes/no)	Ins	sulation	n R
Air han	dler present (	yes / n	o )				
Test Ta	rget	CFM	@25Pa	Test Result		C	FM@25Pa
Building	air leakage tar	get: AC	$H_{50} < 5.0$ -	Fested leakage:	ACH	<sub>50</sub> =	
	Onsite 1	Renew	able Energy	v Electric Pow	er Sy	stem	×V4

### Fenestration Schedule

Please check the applicable boxes and complete the information below

Weighted Average: Using the Prescriptive Method, all glazing must have an "area weighted average" U-Factor of 0.30. This means that some windows can have a higher U-factor than 0.30 and some can have a lower U-factor than 0.30, as long as the area weighted average is U-0.30 or lower you may need to complete this form to document glazing compliance when applying for your building permit.

Dwelling units less than 1500 SF in conditioned floor area: If using the option for new dwellings less than 1500 SF of conditioned floor area with no more than 300 SF fenestration

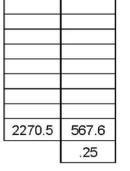
Electronic version available at: <u>http://www.energy.wsu.edu/Documents/2015%20Glazing%20Schedule.xlsx</u>

				Wi	dth	Heig	ght	Glaz	zing
Exemptions	Ref	U-Factor	Qt.	Feet	Inch	Feet	Inch	Area	UA
Swing Door (24 SF Max)									
Glazed Fenestration (15 SF Max)									

VERTICAL FENESTRATION (WINDOWS AND GLAZED DOORS)

Component Description	Ref	Glazing U-Factor
Exterior Openings	1/A-6.01	.25
		-
		1
	Description	Description

Qt.	Wi	dth	Hei	ght	G
	Feet	Inch	Feet	Inch	Area
Pertable					2270.5
um of V	lortical C	enestrat	ion Araa		2270.5



Glazing Area UA

8.96

2.24

11.2

.28

32

8

40

UA 567.6

Area Weighted U = UA/Area

### OVERHEAD GLAZING (SKYLIGHT)

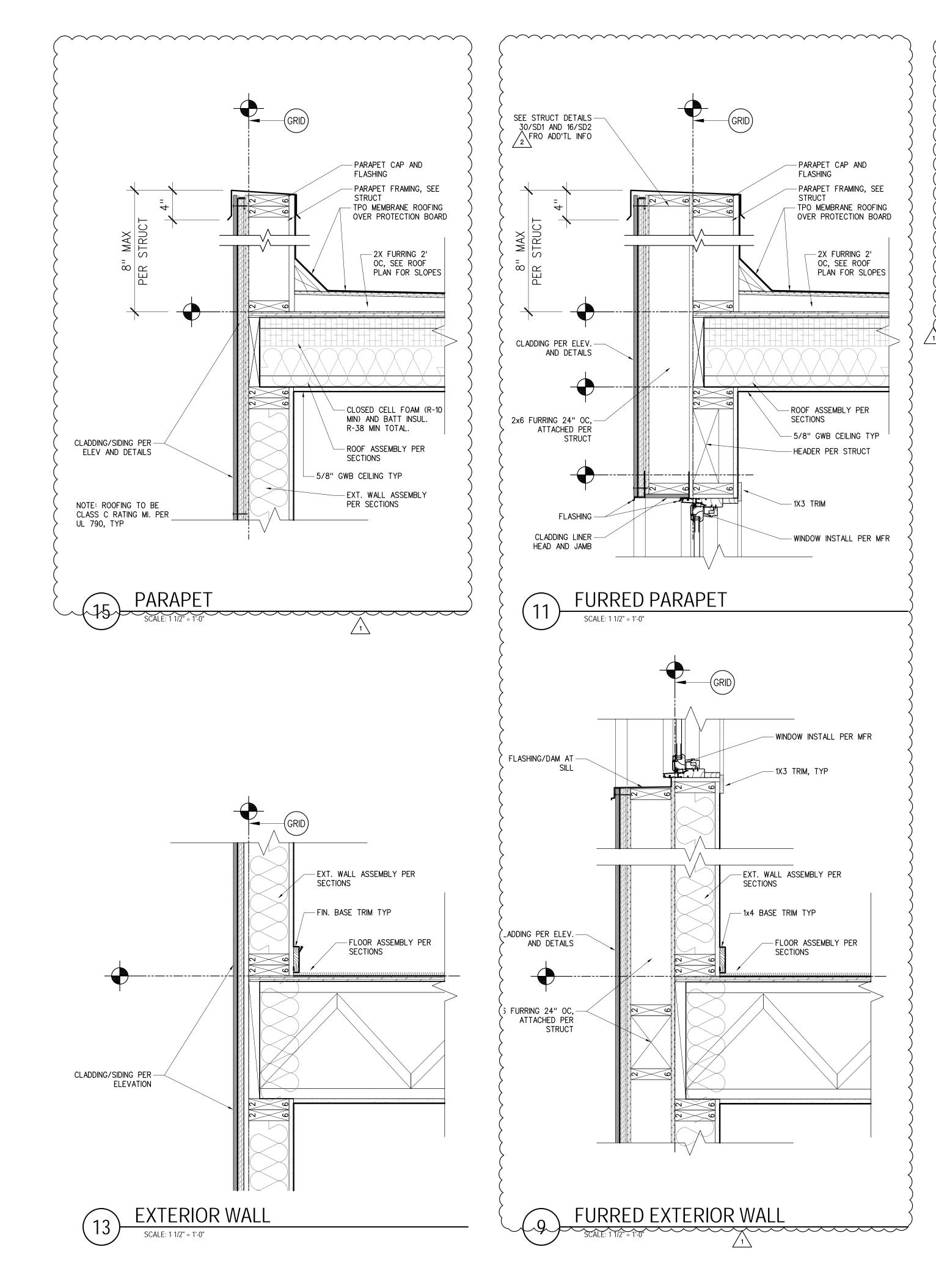
Plan	Component	Ref	Glazing	Qt.	Width		Height	
ID	Description		<b>U-Factor</b>		Feet	Inch	Feet	Inch
A-2.04	Skylights	3/A-6.01	.28	1	4		8	
				2	1		4	

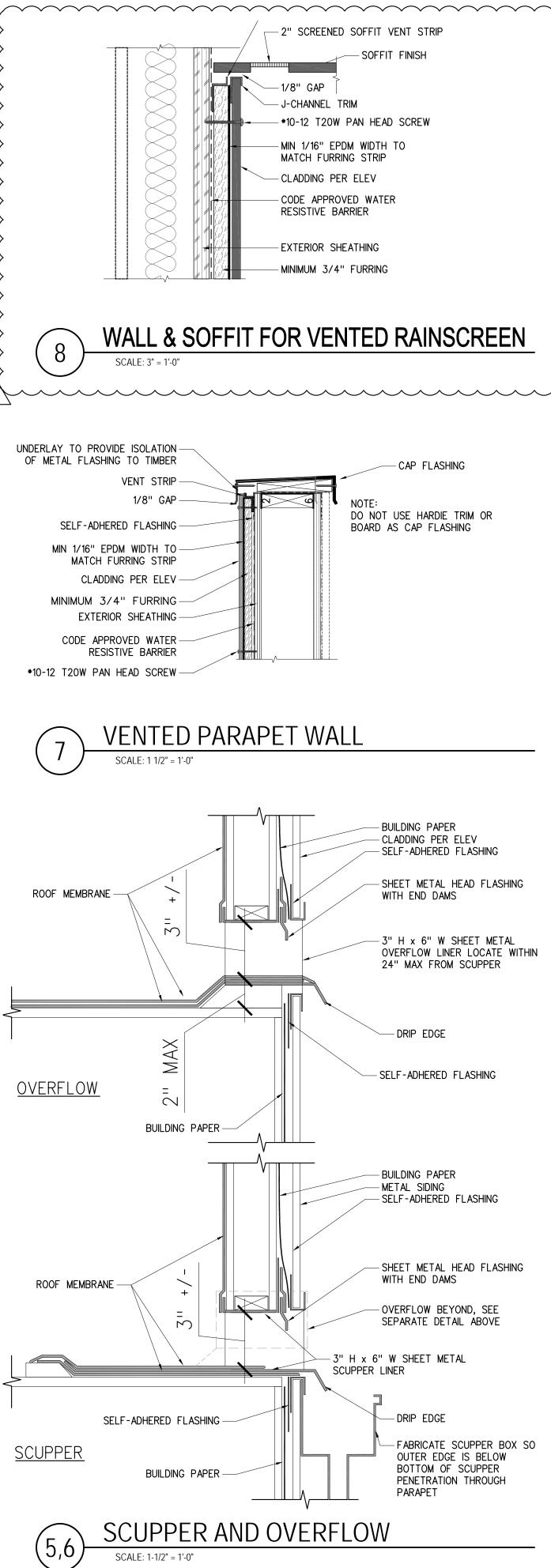
Area Weighted U = UA/Area

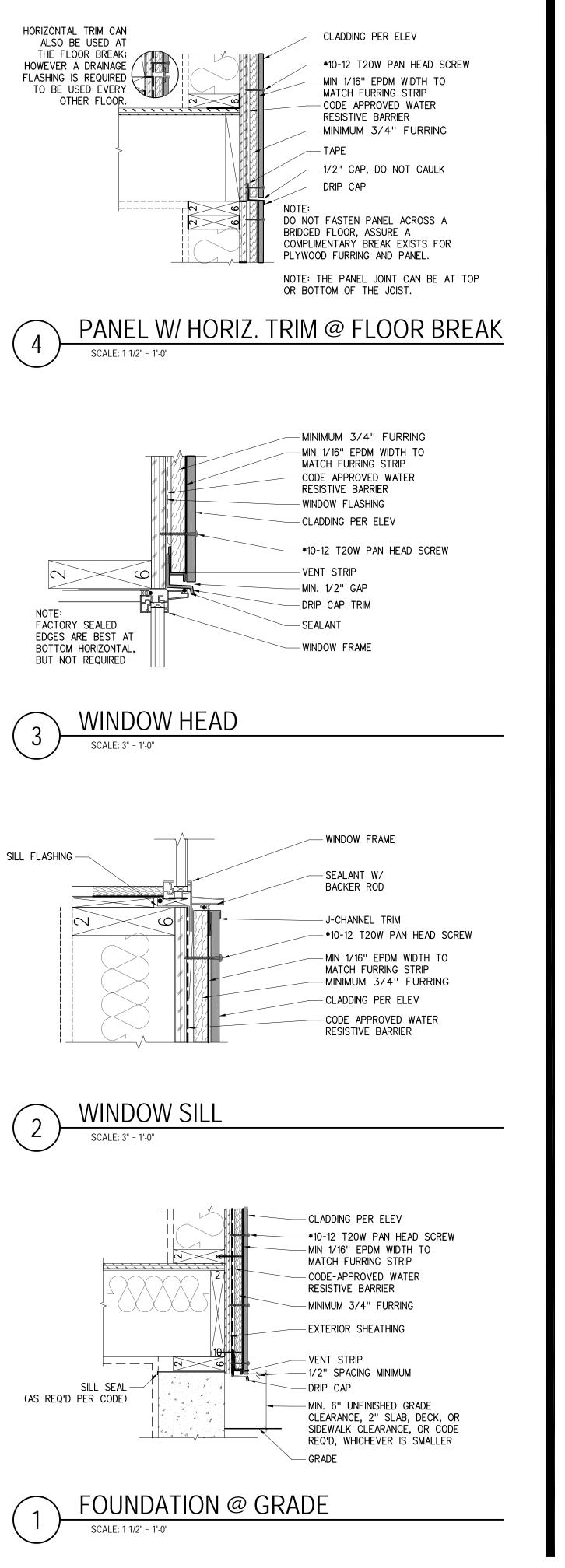
Total Sums of Area and UA for Vertical Fenestration and Overhead Glazing Area and UA:

Francesco Marson and and a second	7 5643 V/REGISTERED					D   WA   98040
PROJECT REVISIONS	DATE DESCRIPTION	12JUL2019 SUBMITTAL SET REV.S				MERCER ISLAND
PROJECT RELEASE	DATE DESCRIPTION					
PROJECT	DATE DESCRIPTION	15SEPT17 PRELIM	12MAR2018 PRE-APP REVIEW	30MAY2018 90% REVIEW	12JUL2019 SUBMITTAL REVISIONS	180CT2019 SUBMITTAL REVISIONS
PROJECT PERMIT INFO						





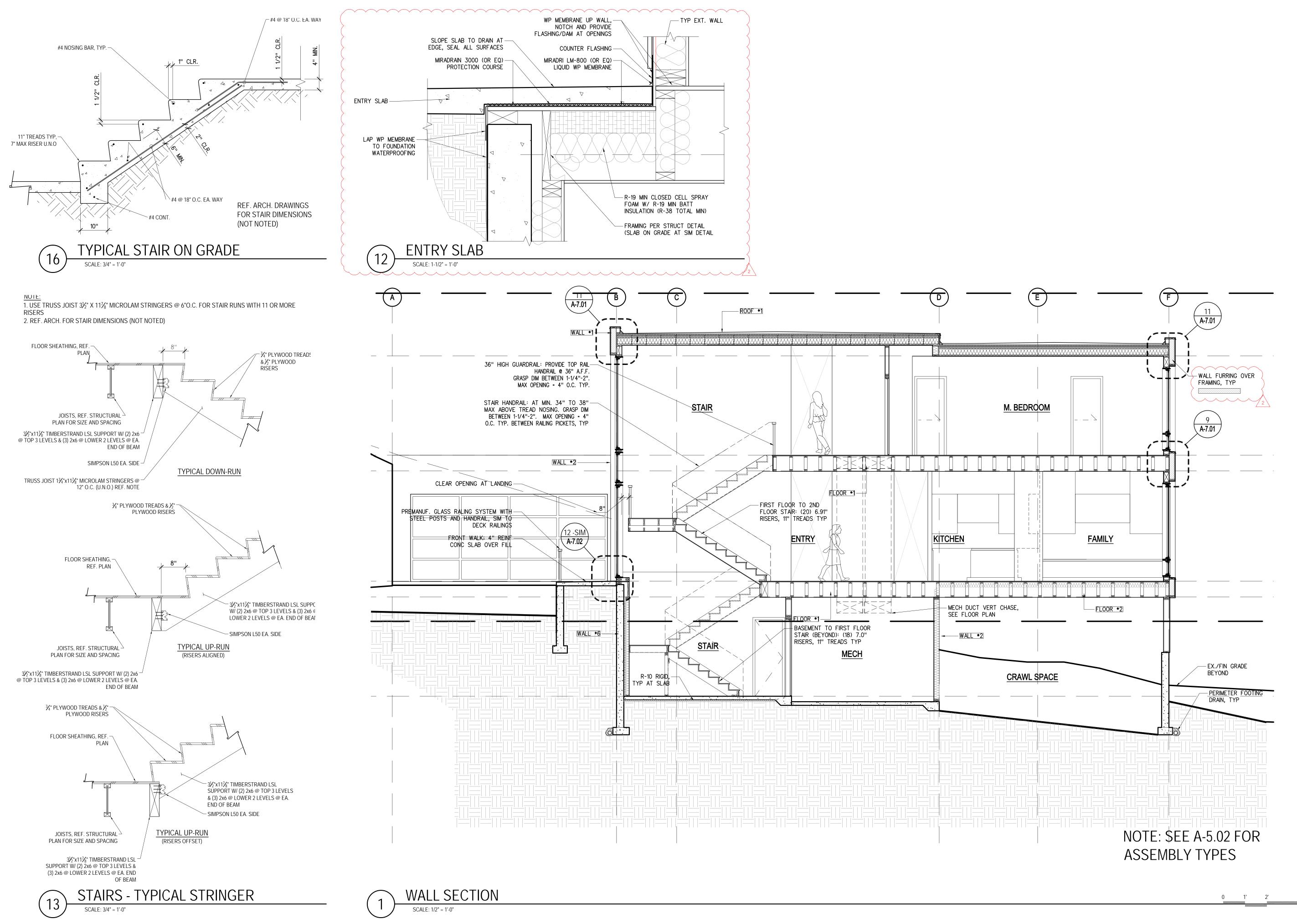




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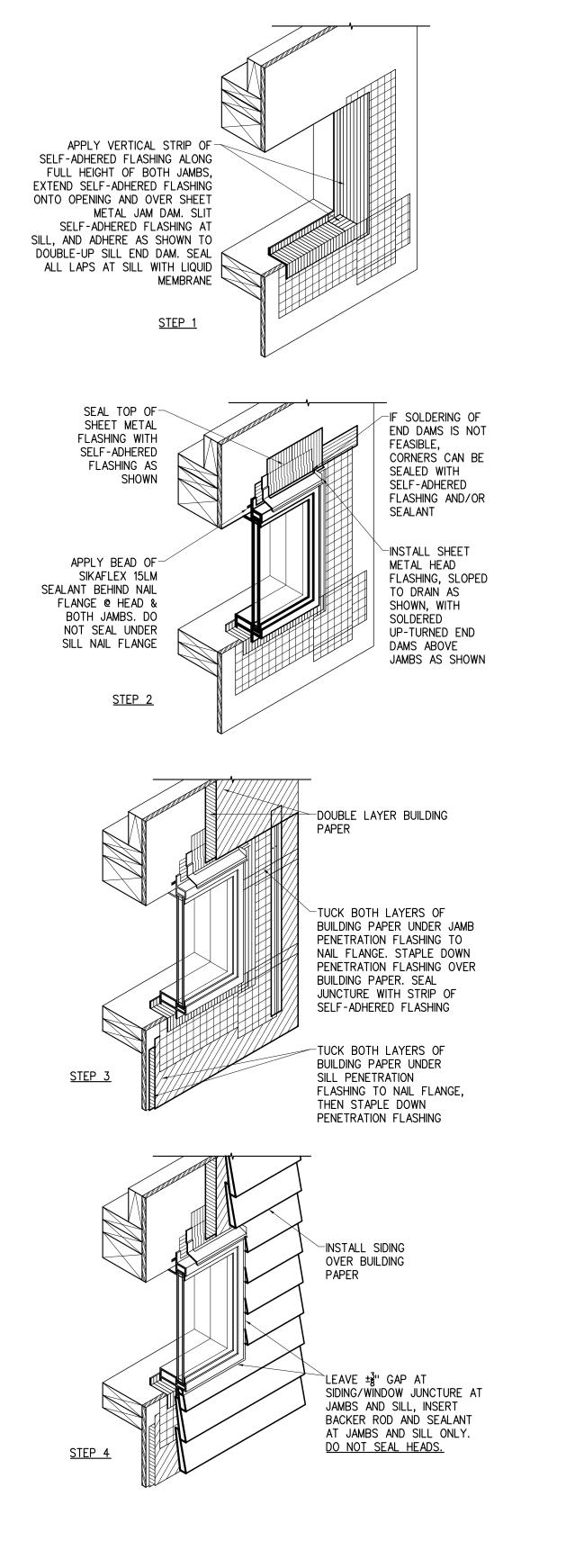
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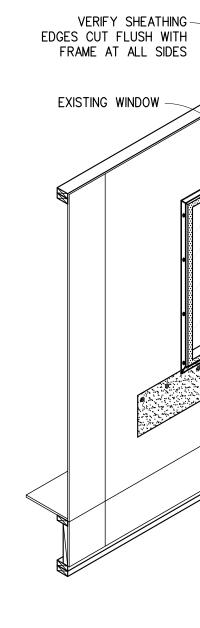


		PROJECT RELEASE PROJECT REVISIONS	DESCRIPTION DATE DESCRIPTION DATE DESCRIPTION	15SEPT17 PRELIM			۲. ۲.	
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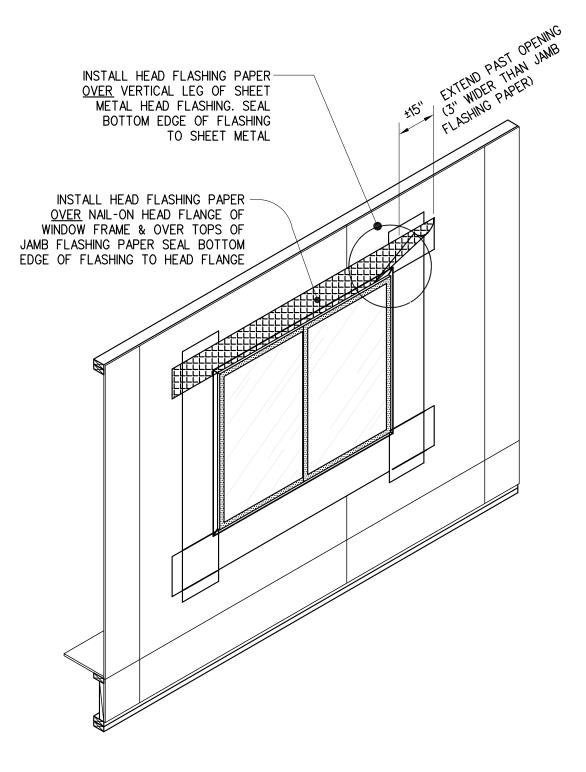


ALT. WINDOW WEATHERPROOFING

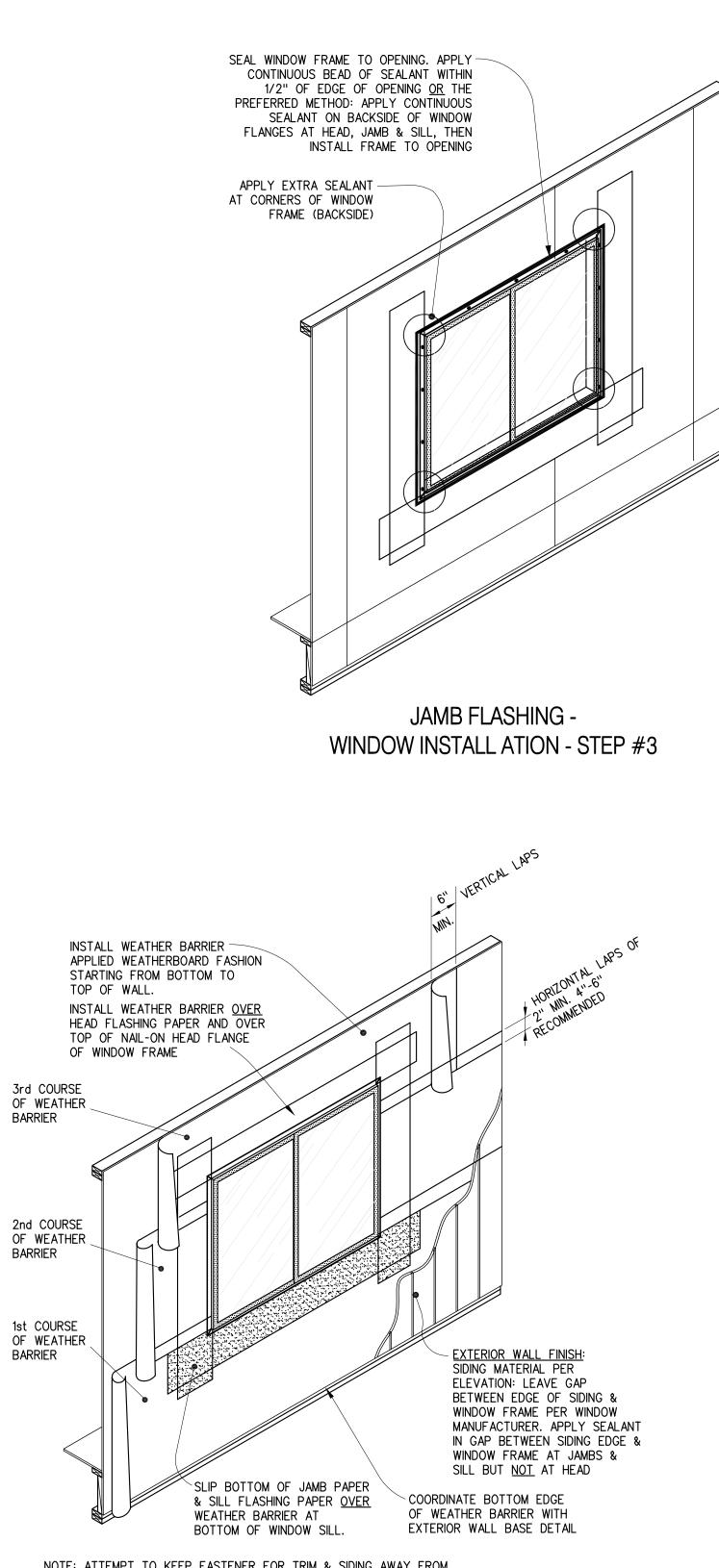


# WINDOW WEATHERPROOFING

## HEAD FLASHING - STEP #4

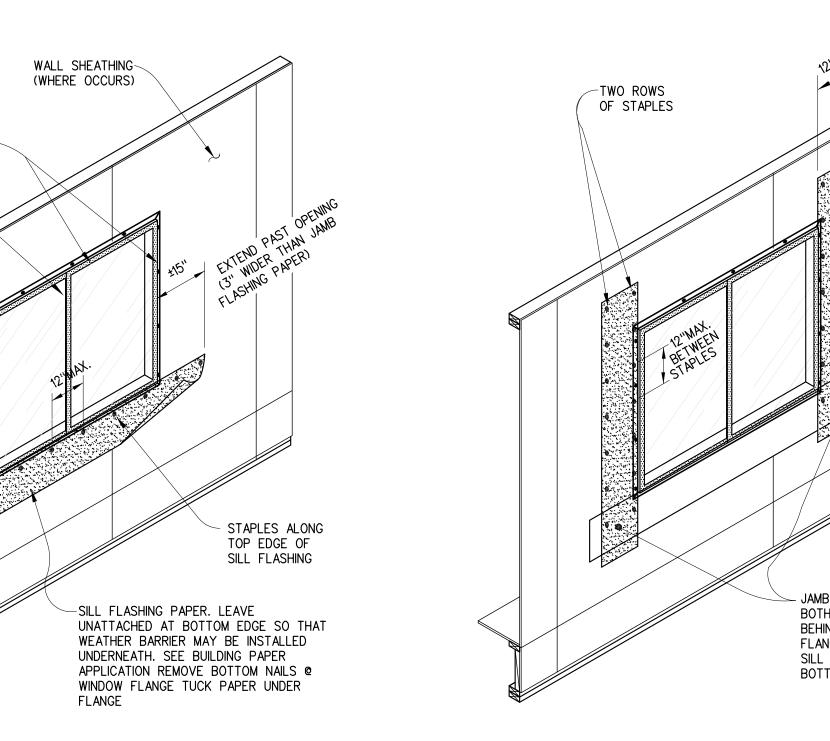


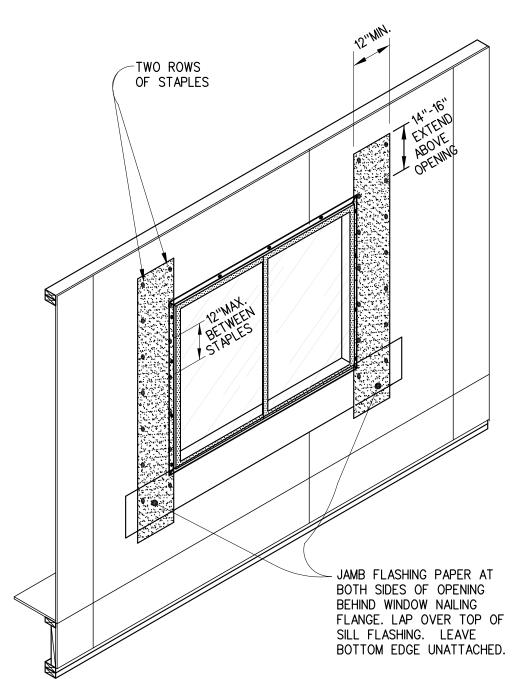
NOTE: ATTEMPT TO KEEP FASTENER FOR TRIM & SIDING AWAY FROM WINDOW. FIN AS MUCH AS POSSIBLE, ESPECIALLY NEAR CORNERS.



SILL FLASHING - STEP #1

JAMB FLASHING - STEP #2

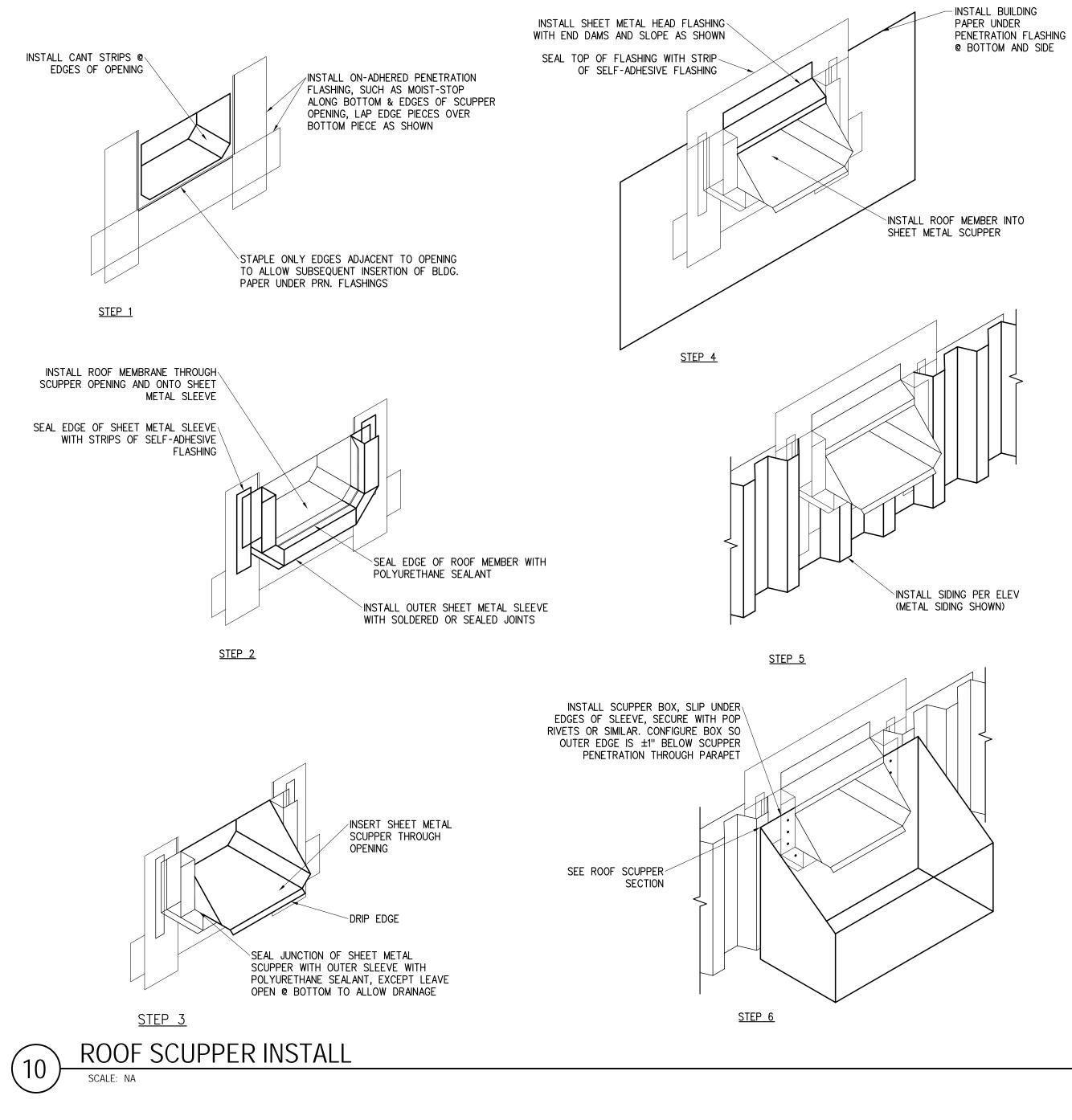


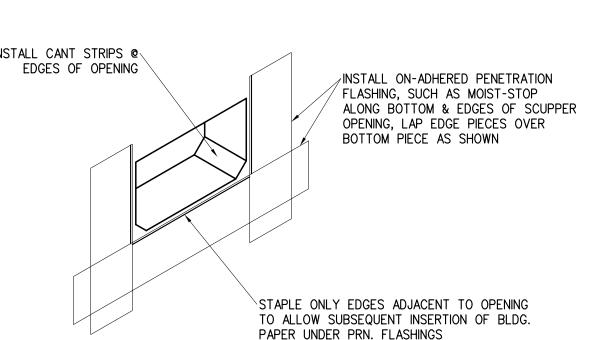


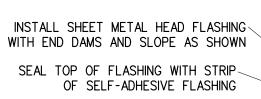
WEATHER BARRIER APPLICATION - STEP #5

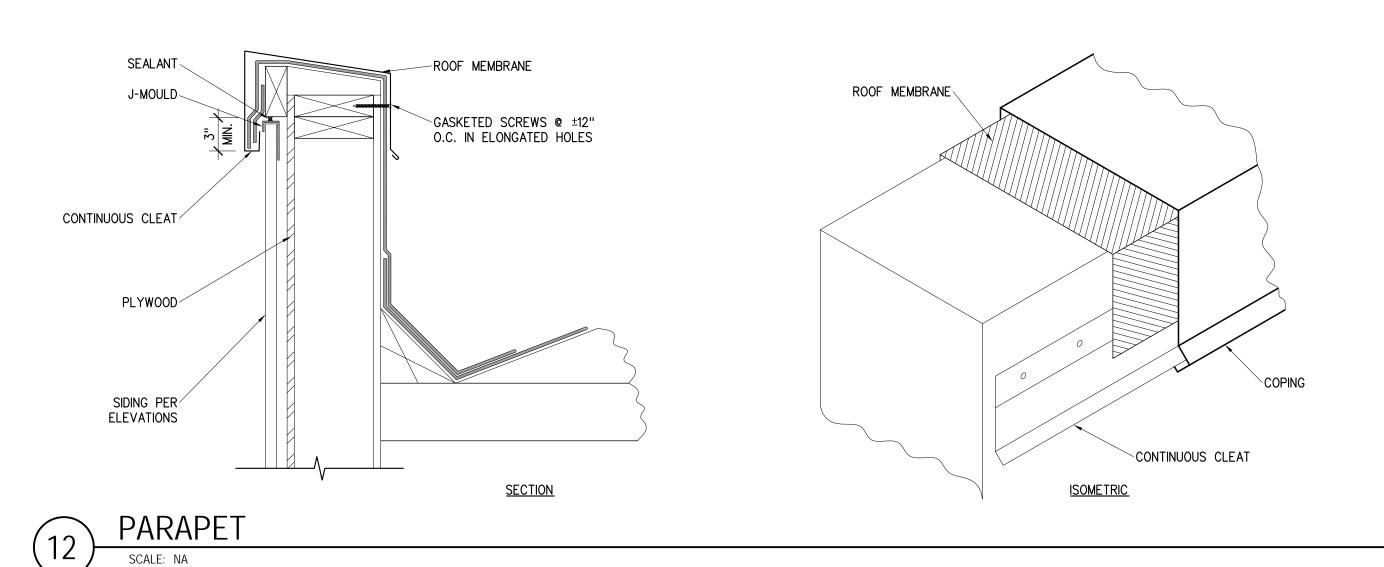
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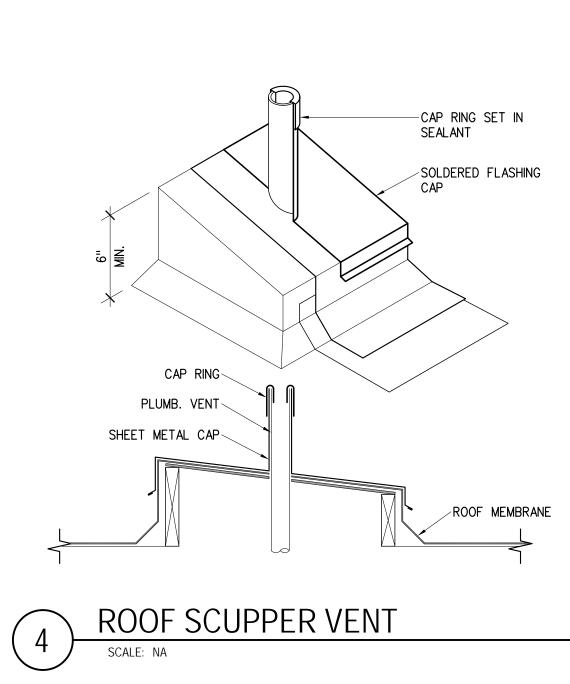






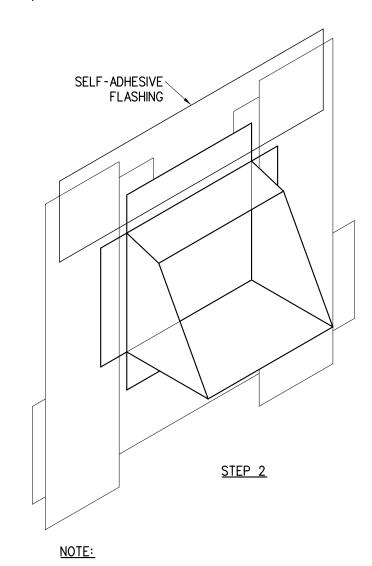


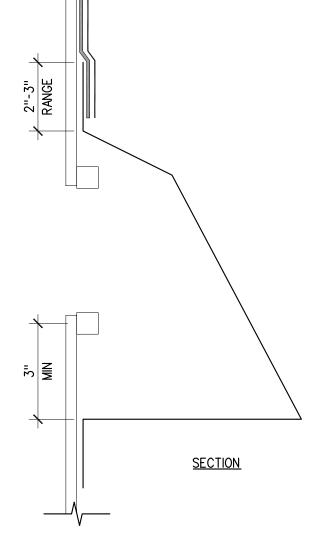


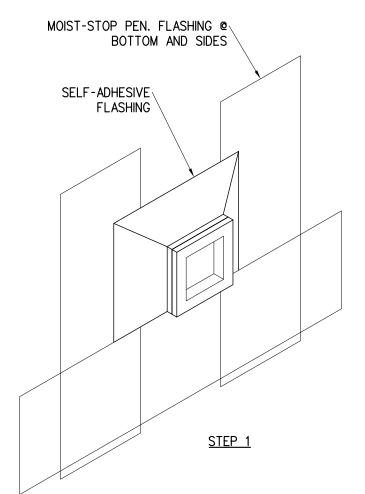


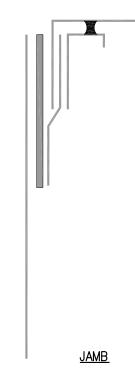


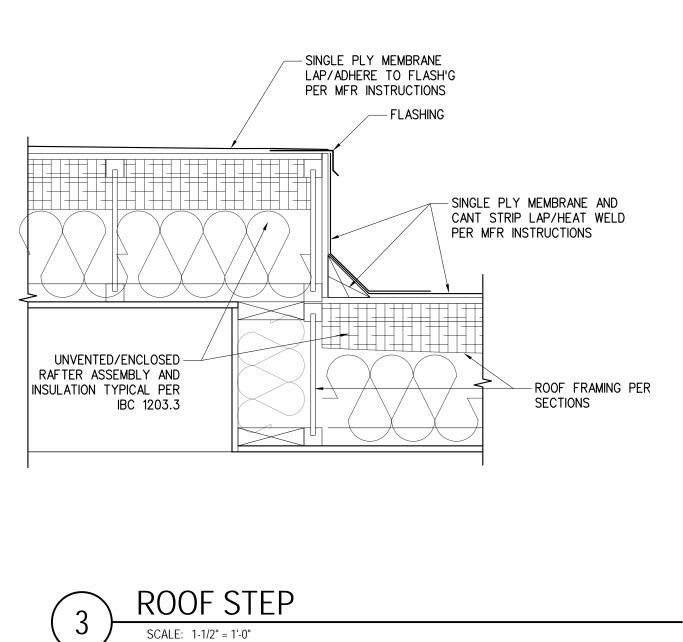
ADJUST WIDTH TO ACCOMMODATE NUMBER OF VENTS

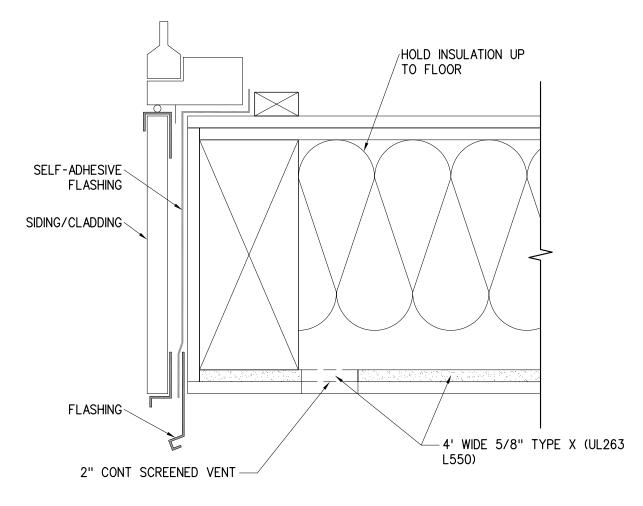






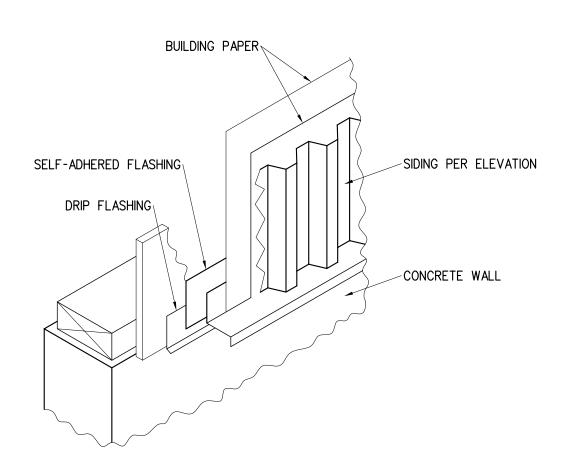






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### **CANTILEVER SOFFIT** SCALE: NA





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### **GENERAL NOTES:** The Structure has been designed to resist code-required vertical and lateral forces after the construction of all structural elements have been completed. Stability of the structural elements prior to completion is the sole responsibility of the General Contractor. Builder is to verify all dimensions prior to starting work. All changes to structure must be reviewed and approved by Phillips Structural Engineering and then submitted to the jurisdiction for approval. All materials, methods, and workmanship shall be in accordance with the International Building Code (IBC) 2015 Edition. The Builder is responsible for using safe work practices and conforming to all safety ordinances. Construction observation by the Structural Engineer is for conformance with design aspects only and is not intended in any way to review the General Contractor's construction procedures. STANDARDS All methods, materials and workmanship shall conform to the 2015 International Building Code (IBC) as amended and adopted by the local Building Official or applicable jurisdiction. DESIGN LOADS ROOF LOAD: SNOW 30 PSF, DEAD 20 PSF FLOOR LOADS: LIVE 40 PSF, DECK LIVE 60 PSF, DEAD 15 PSF WIND SPEED: Vs 3-Sec= 110 MPH, Iw=1.0. EXPOSURE "C" SEISMIC: DESIGN CATEGORY "D", Ss=1.47, S<sub>1</sub>=0.56, Ie=1.0, Site Class "D", R=6.5 SOILS: Allowable soil bearing pressure of 3000 PSF is used per project soils report project No. 17-405 by PanGEO dated 2/8/18. It is the contractors responsibility to verify that all footings bear on firm, undisturbed earth or compacted "Structural Backfill" that meet or exceed allowable soil bearing pressure.

### FOUNDATIONS:

Bottom of exterior footings shall be a minimum of 18" below finished grade bearing on undisturbed native soils. Back fill with dry soils. Backfill next to retaining walls with a minimum of 12" gravel or free draining soil. Soils under footings and slabs to be 95% compacted to a Modified Proctor Density (ASTM D1557). All construction on fill soil shall be reviewed by a licensed Geotechnical engineer.

### CONCRETE:

All concrete materials and placement shall conform to the current ACI code. Concrete shall be made with Portland Cement ASTM C-150 Type II or Type I and shall be Ready-Mixed per ASTM C-94. Min. compressive strength shall be 3000 PSI\* at 28 days with a min. water/cement ratio of .45. All concrete shall be air entrained 5 ±1%. Max aggregate size =  $\frac{7}{8}$ ".

\*Special Inspection not required. 3000 PSI compressive strength has been specified for weathering protection. *Structural design of concrete based on* 2500 PSI compressive strength.

### REINFORCING STEEL

All reinforcing steel to be GRADE 60 PER ASTM A-615. Lap all splices shall be the greater of 32 bar diameters or 18". Lap horizontal steel at corners and intersections in footings and walls with continuous corner bars.

Minimum concrete cover over reinforcing steel:

- INTERIOR FACES OF SLAB AND WALL BARS =  $1\frac{1}{3}$  "
- EXPOSED TO WEATHER OR EARTH = 1<sup>1</sup>/<sub>2</sub>" AT #5 AND SMALLER AND 2" AT #6 AND LARGER.
- CONCRETE CAST AGAINST SOIL = 3"

### WOOD FRAMING AND CARPENTRY

General Requirements: Provide minimum nailing per 2015 IBC table 2304.10.1 or as indicated on the drawings. Do not notch or drill structural members, except as permitted by the engineer.

Framing Connectors: Only ICC approved connectors shall be used in framing applications as manufactured by Simpson Strong-Tie or equivalent. Provide maximum size and quantity of fasteners shown in the manufacturer's catalog U.N.O.

### Fasteners:

Bolts shall be per ASTM A-307 with standard cut washers or malleable iron washers. Post-installed anchors require engineering confirmation prior to installation. Contact Phillips Structural Engineering for possible alternatives. Nails shall be common wire nails or equivalent pneumatically drive nails (P-nails). American or Canadian manufacturer only as indicated below. P-nails shall be installed per the manufacturer's guidelines.

DIAMETER	MINIMUM LENGTH	NAIL

COMMON WIRE NAIL	(INCHES)	(INCHES)	APPLICATION
8d COMMON	0.131	21⁄2"	SHEATHING
10d COMMON	0.148	2½"	SHEATHING
N/A	0.131	3"	FRAMING
12d COMMON	0.148	3¼"	FRAMING
16d COMMON	0.162	3½"	FRAMING

### Wood Sheathing (Structural):

Roof sheathing shall be  $\frac{1}{2}$ " CDX or  $\frac{7}{16}$ " OSB nailed w/ 8d @ 6" o.c. along panel edges, and 12" o.c. in field. Span index shall be 24/0. Plywood Sub Flooring shall be  $\frac{3}{4}$ " T&G CDX or OSB (glued & nailed). Nailing shall be 10d @ 6"o.c. along panel edges, and 12"o.c. in field (U.N.O.) Span index shall be 48/24. Stagger all end laps. All sheathing shall bear the grade trademark of the American Plywood Association (APA). Studs:

### All studs shall be kiln dried (KD) or surface dried (SD). Each stud shall bear the stamp of the West Coast Lumber Inspection Bureau (WCLIB) or Western Wood Products Association (WWPA) showing grade mark or approved equal. All studs shall 2x minimum material and Doug-Fir meeting the following minimum strength properties: Fb= 900psi, Fv=180psi, E=1,600,000psi.

Headers:

All headers not specified or otherwise noted on the plan with spans ≤5'-0" are to be 4x8 DF#2 or (2)2x10 HF#2 with at least one cripple and one king stud at each end. Spans greater than 5'-0" shall have at least two cripples and one king stud U.N.O. Heavy Timbers:

All timbers above sizes listed above including posts and beams shall be Doug-Fir #2 or better.

Glu-Laminated Beams (GLB):

All GLB shall be in conformance with ANSI A190.1, American National Standards for Structural Glue-Laminated Timber. Grade 24F-V4 shall meet or exceed the following: Fb=2400psi, Fv=240psi, E=1,800,000psi and shall be used at simple spans. Grade 24F-V8 shall be used at continuous spans. Laminated Veneer Lumber (LVL):

All LVL shall be in conformance with ASTM D2559. LVL shall be made of Doug-Fir (DF)and meet or exceed the following: Fb= 2,600psi, Fv=285psi, E=1,900,000psi. Parallel Strand Lumber (PSL):

All PSL shall be in conformance with ASTM D2559 and NER-292. PSL strength requirements shall meet or exceed the following: Fb=2,900psi, Fv=290psi, E=2,000,000psi.

### Preservative Treatment (P.T.):

All exposed framing including lumber, plywood and deck materials shall be pressure treated with 0.25#/cf pentachlorophenol per AWPA specification P-5 or other approved treatment. All cutting and boring after pressure treatment shall be cared for in accordance with AWPA specification M-4. Exposed framing includes, but is not limited to:

1. Joists, girders and subfloor that is closer than 18" to exposed ground in crawl spaces.

2. Wood framing (including sheathing) that rest on exterior foundation stem walls and is 8" or less from exposed earth.

Wood Connectors at P.T. Conditions:

Metal connectors which are in contact with pressure treated wood shall be protected with on of the following: Simpson "ZMAX" G185 Galvanization, Triple Zinc Coated, hot Dipped Galvanized or other approved method.

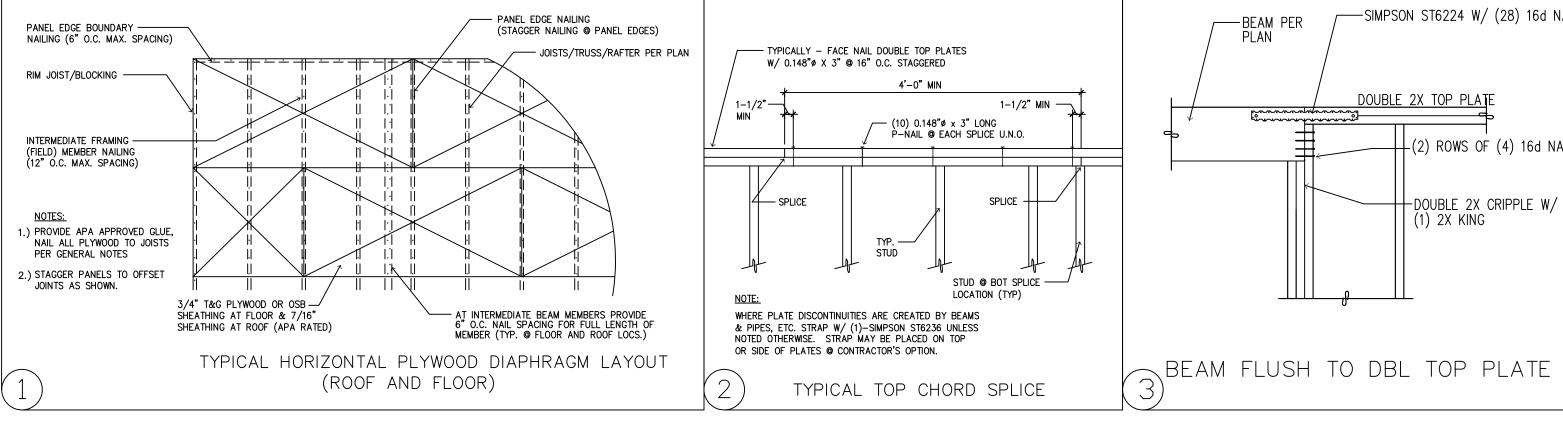
### Pre-Engineered Floor Trusses:

All prefabricated floor trusses shall be designed by or under the direct supervision of a licensed professional engineer registered in the state where the structure is located. The truss shop drawings shall bear the stamp of that engineer and shall be fabricated and installed per the latest Truss Plate Institute standards. All necessary temporary and permanent bridging, blocking, pre-notched plates, hangers, etc. for the stability of the truss elements under gravity and lateral loads shall be designed and detailed/specified and furnished by the manufacturer. The truss manufacturer shall verify all setbacks, dimensions and bearing points prior to fabrication. Maximum allowable deflections shall be as follows:

~Floor Total Load = L/480 or  $\frac{5}{8}$ " (whichever is less) ~Floor Live Load = L/600 or  $\frac{1}{2}$ " (whichever is less)

Trusses shall be designed for the spans and conditions shown and be constructed from Doug-Fir timber and be furnished and installed in conformance with the manufacturer's published specifications. Additional concentrated loads from mechanical units and misc. equipment shall be accounted for/coordinated with sub-contractors, the designer of record and truss engineer. Framing has been designed assuming Hem-Fir plates w/ 405psi crushing capacity, truss engineer to confirm compatibility.

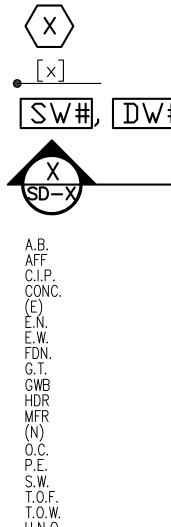
Where trusses align with shear walls, truss engineer to design and provide a truss that has been designed to transfer lateral wind and seismic forces as shown on the plans. Loading indicated (100plf minimum)shall be designed by the truss engineer to transfer from floor sheathing to shearwall below. Shop drawings including truss engineering shall be submitted to the Engineer of Record for approval prior to submittal to the jurisdiction and fabrication. Alteration of the truss layout indicated on the plans may require supporting structural and foundation changes, therefore prior approval by the designer and structural engineer is required. Trusses shall not be field altered in any way without written approval from the licensed truss engineer of record.

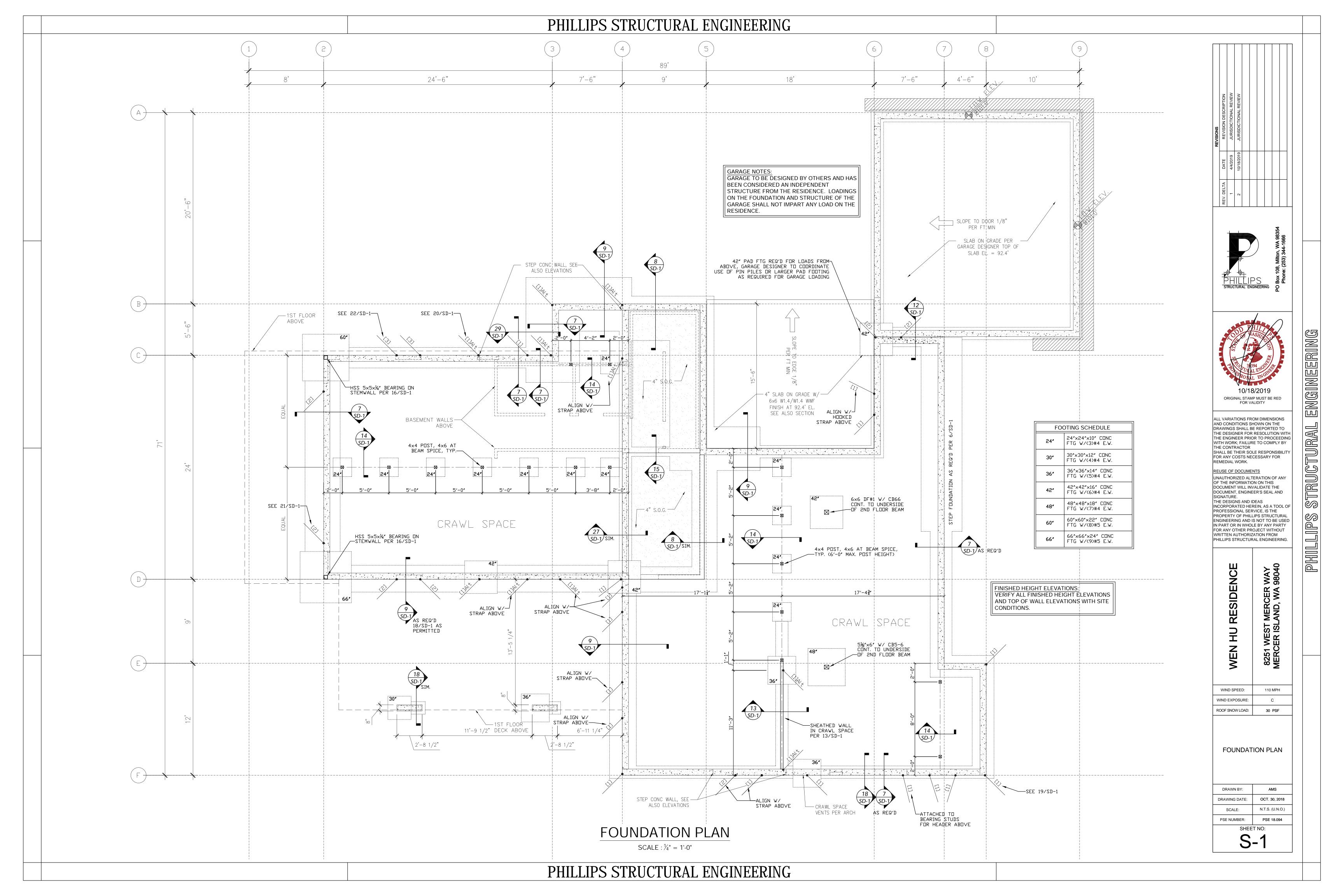


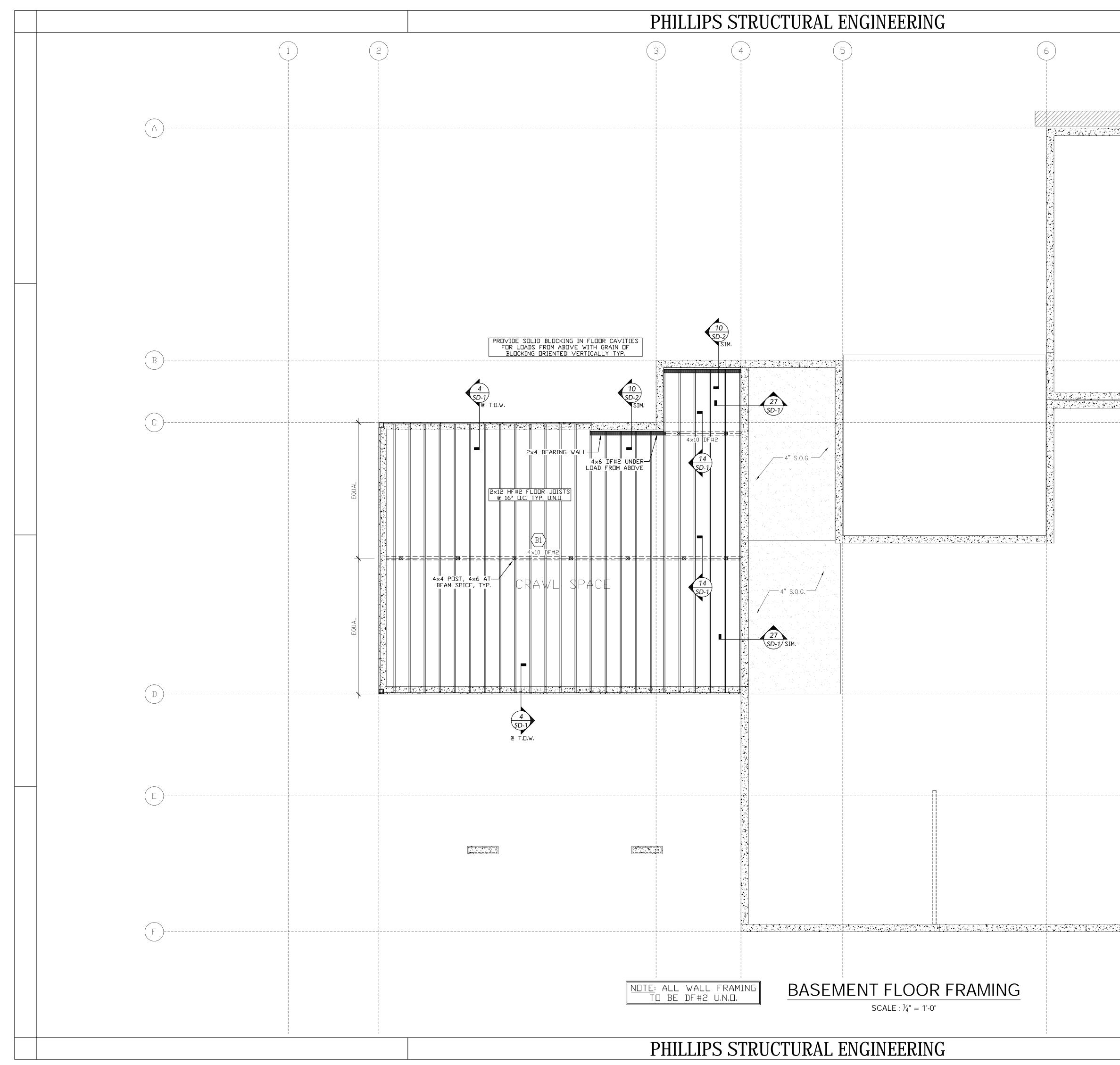
## PHILLIPS STRUC

3. Any other wood product in direct contact with concrete or masonry.

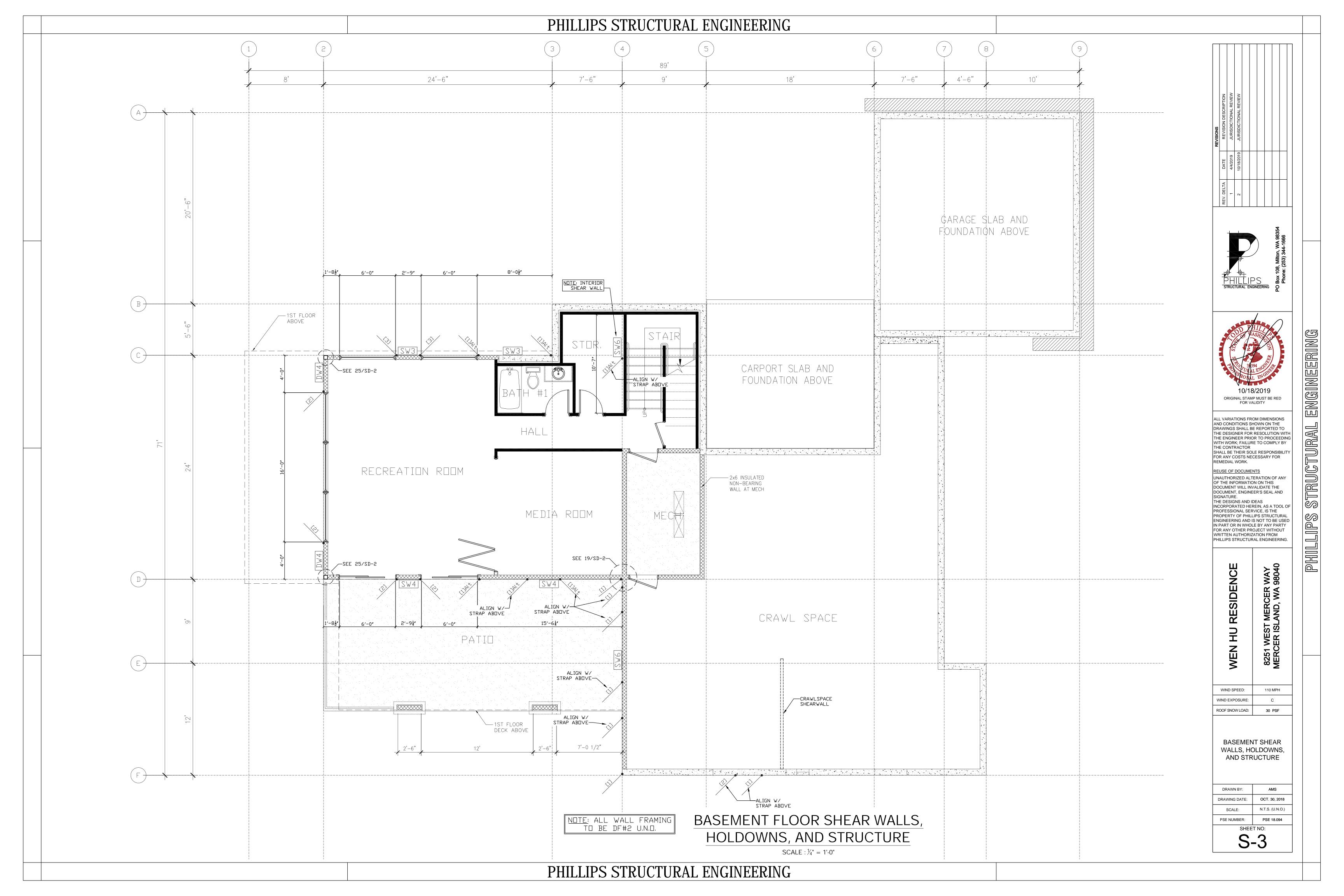
TURAL ENGINEERING		
HOLDOWN AND STRAP TABLE	SHEAR WALL (SW) AND ANCHORAGE SCHEDULE (O)	
HOLDOWN AND STRAP TABLE           Moduli Simpaon Stong-Tie Product Lobel (SUU (0) (8) (c) (F) (c)         Stop/Holdown Attachment and Required Fastemers         Anchorage to Foundation (0) (E)           [1]         STHD14/STHD14RJ         (2) 2X STUDS W/ (30) 16d Sinker         N/A         EMBEDDED STRAP           [1]Att         HDUS-SDS2.5         N/A         (2) 2X STUDS W/ (14) SDS SCREWS         SIMPSON SB%/24           [2]         HD08-SDS2.5         N/A         (3) 2X STUDS W/ (24) SDS SCREWS         SIMPSON SB%/24           [4]         MST48 STRAP         (2) 2X STUDS W/ (34) 16d         N/A         N/A           [5]         MST68 STRAP         (2) 2X STUDS W/ (34) 16d         N/A         N/A           [6]         MST68B3 STRAP         (2) 2X STUDS W/ (38) 10d         N/A         N/A           [7]         MST68B3 STRAP         (2) 2X STUDS W/ (38) 10d         N/A         N/A           [6]         MST68B3 STRAP         (2) 2X STUDS W/ (38) 10d         N/A         N/A           [7]         MST68B3 STRAP         (2) 2X STUDS W/ (38) 10d         N/A         N/A           [8]         ALL METAL CONNECTORS IN CONTACT WITH PRESSUPE TREATED (P.T.) MATERIAL SHALL BE COATED WITH SIMPSON "Z-MAX" (G-185)           [9]         MADATORY NOTES         ALL METAL CONNECTORS IN CONTACT	ASD S.W. Label       Minimum Required APA Rated Sheathing (panel) (A) (B) (C) (D) (M) (K) (N)       Panel Edges (D) (E)       Stud & Blocking Size (C) (F) (L)       Rim Joist Or Block Connection To Top Plate (G) (H); (Does (G) (H); (Does or apply to Crawlspce)       Still Plate Attachment         SW6       260/365       %e"OSB (1) Side       0.131x2½" © 6" O.C.       2x_       LTP4 © 36"OC       16d © 6" O.C. (R) 12d © 4" O.C.       5%" © 48" O.C.       2x         E)       SW6       260/365       %e"OSB (1) Side       0.131x2½" © 6" O.C.       2x_       LTP4 © 36"OC       16d © 4" O.C.       5%" © 48" O.C.       2x         E)       SW4       380/532       %e"OSB (1) Side       0.131x2½" © 4" O.C.       2x_       LTP4 © 20"OC       16d © 4" O.C.       5%" © 32" O.C.       2x         SW3       490/685       %e"OSB (1) Side       0.131x2½" © 4" O.C.       3x_       LTP4 © 12"OC       16d © 3½" O.C.       5%" © 12" O.C.       3x         SW2       640/895       %e"OSB (1) Side       0.131x2½" © 4" O.C.       3x_       LTP4 © 8"OC       16d © 3"/2" O.C.       5%" © 12" O.C.       3x         DW4       760/1065       %e"OSB Each Side       0.131x2½" © 4" O.C.       3x_       LTP4 © 8"OC       0.C. & LTP4 © 16" OC       5%" © 12" O.C.       3x         DW3	Rev. DELTA       DATE       REVISIONS         Rev. DELTA       DATE       REVISION DESCRIPTION         1       4.4/2019       JURISDICTIONAL REVIEW         2       10/18/2019       JURISDICTIONAL REVIEW
SYMBOL & ABBREVIATIONS LEGEND:	PANEL EDGE NAILING IS REQUIRED TO EACH OF THE DOUBLE STUDS AND SHALL BE STAGGERED.         M.       POST INSTALLED ANCHORS MAY NOT BE A VIABLE ALTERNATIVE. CONTACT PHILLIPS STRUCTURAL ENGINEERING FOR CONSULTATION.         N.       APA RATED PLYWOOD MAY BE USED IN PLACE OF OSB.         O.       ALL NAILING SHALL BE PER IBC TABLE 2304.10.1 U.N.O.	PHILLIPS & C
Image: Strain of the strain	<ul> <li>TYPICAL FRAMING NOTES:</li> <li>1. Roof and floor diaphragm nailing per Wood Sheathing Notes.</li> <li>2. Solid blocking shall be provided between the bearings of every rafter or truss and attach to framing with Simpson H2.5T or clip indicated in typical detailing.</li> <li>3. Provide solid built-up studs or posts under all girder trusses, roof beams and floor beams. Solid blocking (squash blocking) is required in all floor cavities under built-up studs/posts. Built-ups or posts shall run continuous to the foundation.</li> <li>4. Exterior walls shall be nailed per SW6 U.N.O. All panel edges shall be blocked per shearwall table.</li> <li>5. Where (2) shearwalls meet at a corner/intersection, the sheathing of each wall shall be edge nailed to the studs/post which the holdown is attached to.</li> <li>6. Provide solid rim where floor joist bear on exterior walls per typical details.</li> <li>7. Where floor framing runs parallel to exterior walls, install 2x blocking panels between rim joist and first joist @ 48" o.c. ~ nail sheathing to blocking will 8d @ 3" o.c. (crawlspace framing where rim joist bears on concrete stemwalls are omitted from this requirement).</li> <li>8. Roof and floor joists under interior partition walls when running parallel to each other.</li> <li>10. Top plates are assumed to be continuous and may be spliced per typical detailing on this sheet.</li> <li>11. All columns not specified or shown on the plans are to be a minimum of (2) 2x studs spike laminated together with 16d nails @ 6" o.c. (stagger).</li> <li>12. All post-beam intersections shall contain positive connections to resist against uplift and/or lateral displacement. Anchorage of walls to the foundation shall be framed with Hem-Fir U.N.O. Walls shall be anchored to the foundation per the minimum requirements of \$%6 (%" Ø A.B. @ 48" o.c. (flat or on edge).</li> </ul>	AL VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE DESIGNER FOR RESOLUTION WITH THE CONTRACTOR SHALL BE THEIR SOLE RESPONSIBILITY RESOLUTION SHOWN ON THE DRAWINGS SHALL BE REPORTED TO THE DESIGNER FOR RESOLUTION WITH THE CONTRACTOR SHALL BE THEIR SOLE RESPONSIBILITY READ TO PROCEED IN THE CONTRACTOR SHALL BE THEIR SOLE RESPONSIBILITY REDUCTIVALIDATE THE DOCUMENT WILL INVALIDATE THE DOCUMENT ENGINEER'S SEAL AND SOUGHENT WILL INVALIDATE THE DOCUMENT ENGINEER'S SEAL AND SUBJECTIVE. THE DESIGNS AND IDEAS INCORPORATED HEREIN, AS A TOOL OF PROFESSIONAL SERVICE, IS THE PROPERTY OF PHILLIPS STRUCTURAL INCORPORATED HEREIN, AS A TOOL OF PROFESSIONAL SERVICE, IS THE PROPERTY OF PHILLIPS STRUCTURAL INCORPORATED HEREIN, AS A TOOL OF PROFESSIONAL SERVICE, IS THE PROPERTY OF PHILLIPS STRUCTURAL ENGINEERING. IN PART OR IN WHOLE BY ANY PARTY FOR THEN AUTHORIZATION FROM PHILLIPS STRUCTURAL ENGINEERING.
E NAIL DOUBLE TOP PLATES © 16" O.C. STAGGERED 4'-O" MIN 1-1/2" MIN (10) 0.148" # x 3" LONG P-NAIL © EACH SPLICE U.N.O. TYP. T	<ul> <li>NAILS</li> <li>W/</li> <li>LICENSE OF ENGINEERING DOCUMENTS:         <ol> <li>Grant of License: Phillips Structural Engineering grants the Licensee a nonexclusive Right of Use for the purpose of constructing a single structure (use) from this engineering package. Future uses of this drawing set are permitted when accompanied by an originally stamped "Site Specific Re-Use Letter" for each additional site and payment has been made to Phillips Structural Engineering.</li> <li>Ownership of Engineering Calculations and Drawings: Phillips Structural</li> </ol> </li> </ul>	Image: Notes        Image: Notes <th< td=""></th<>
STUD @ BOT SPLICE	<ul> <li>Engineering shall retain "Title 17 USC Rights and Ownership" of the Copyright Law of The United States of America of these Engineering Documents and all subsequent copies of the engineering. The Licensee is not permitted unlimited reuse of these documents without prior consent.</li> <li>3. <i>Copy and Transfer Restrictions:</i> These technical calculations and drawings. Unauthorized copying of the Engineering is strictly forbidden. The Engineering is permitted to be used by the Licensee only, and may not be transferred to a 3rd party without prior written consent of Phillips Structural Engineering.</li> </ul>	DRAWN BY: AMS DRAWING DATE: OCT. 30, 2018 SCALE: N.T.S. (U.N.O.) PSE NUMBER: PSE 18.094 SHEET NO: SHEET NO: SHEET NO:

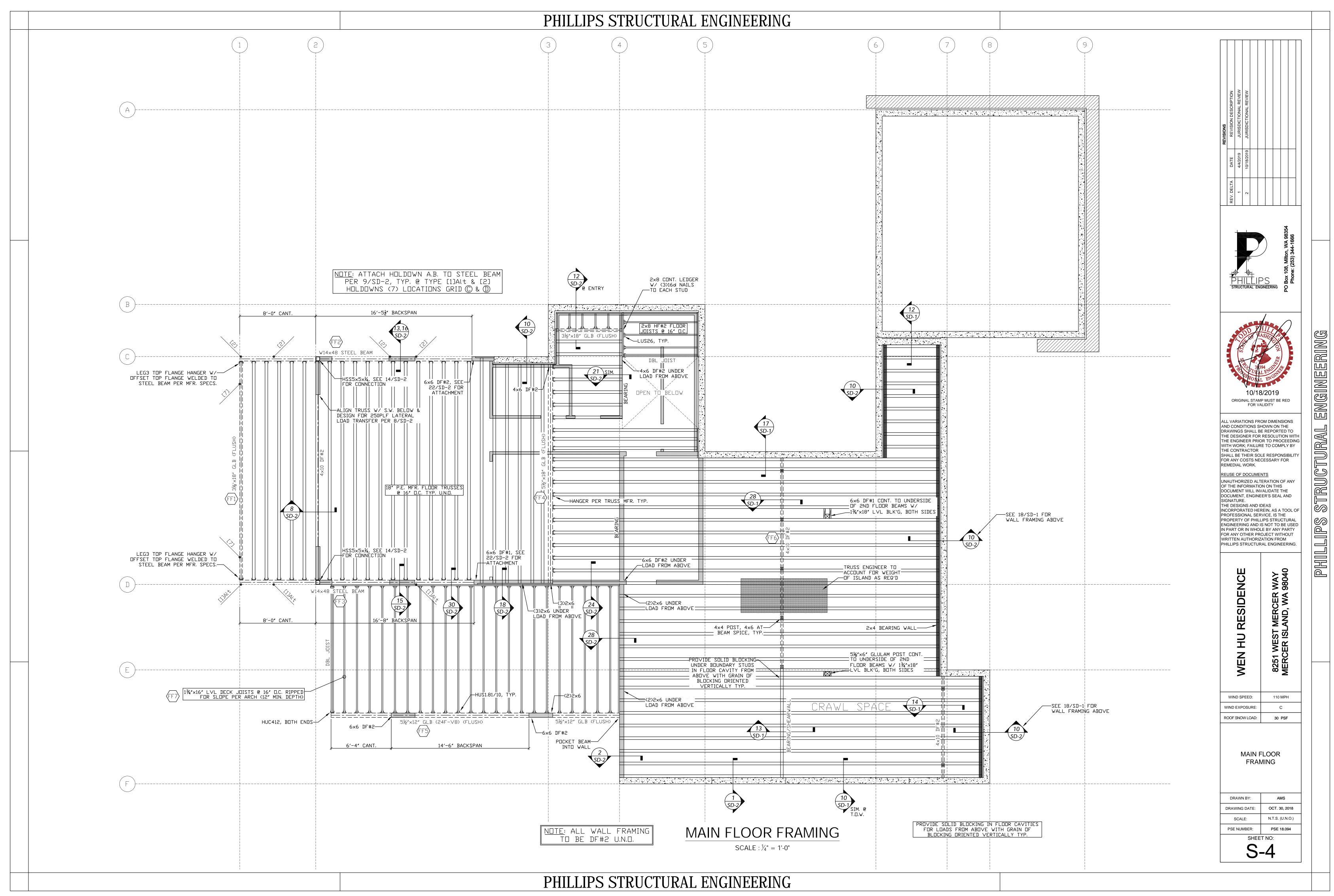


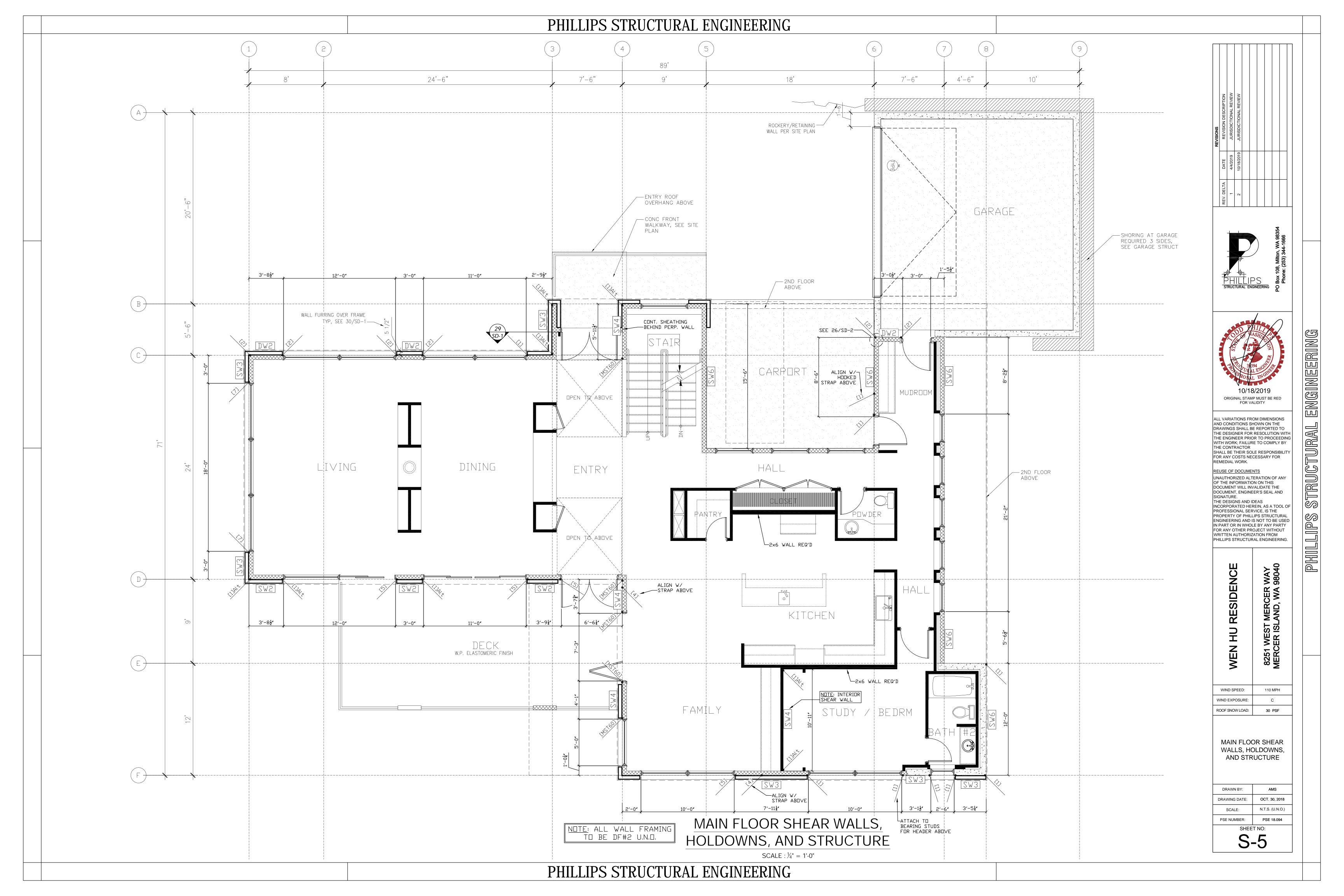


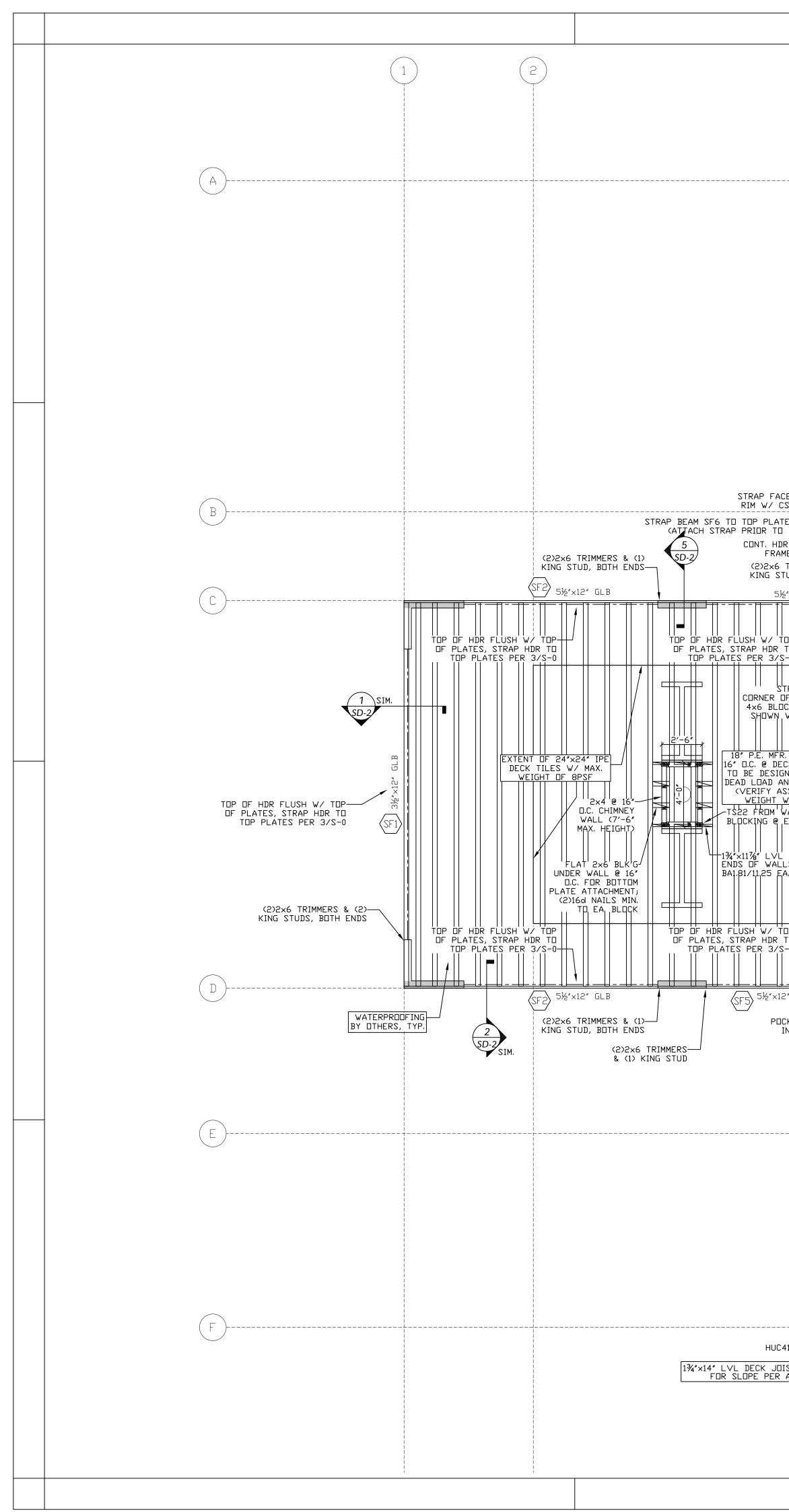


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		REVISIONSREV. DELTADATEREVISION DESCRIPTION14/4/2019JURISDICTIONAL REVIEW210/18/2019JURISDICTIONAL REVIEW		
			PO Box 108, Milton, WA 98354 Phone: (253) 344-1666	
		ORIGINAL S FC ALL VARIATIONS	ASTRUCTURE 3394 3394 11 11 11 11 11 11 11 11 11 1	ENGINEERING
		DRAWINGS SHA THE DESIGNER THE ENGINEER WITH WORK; FA THE CONTRACT SHALL BE THEIF FOR ANY COSTS REMEDIAL WOR <u>REUSE OF DOC</u> UNAUTHORIZED OF THE INFORM DOCUMENT WIL DOCUMENT, EN SIGNATURE. THE DESIGNS A INCORPORATED PROFESSIONAL PROPERTY OF F ENGINEERING A IN PART OR IN V FOR ANY OTHEF WRITTEN AUTH	R SOLE RESPONSIBILITY S NECESSARY FOR K. UMENTS D ALTERATION OF ANY IATION ON THIS L INVALIDATE THE GINEER'S SEAL AND	LLIPS STRUCTURAL
		WEN HU RESIDENCE	8251 WEST MERCER WAY MERCER ISLAND, WA 98040	
		WIND SPEED WIND EXPOSUF ROOF SNOW LO	: 110 MPH RE: C	
			IENT FLOOR RAMING	
			E: OCT. 30, 2018 N.T.S. (U.N.O.)	

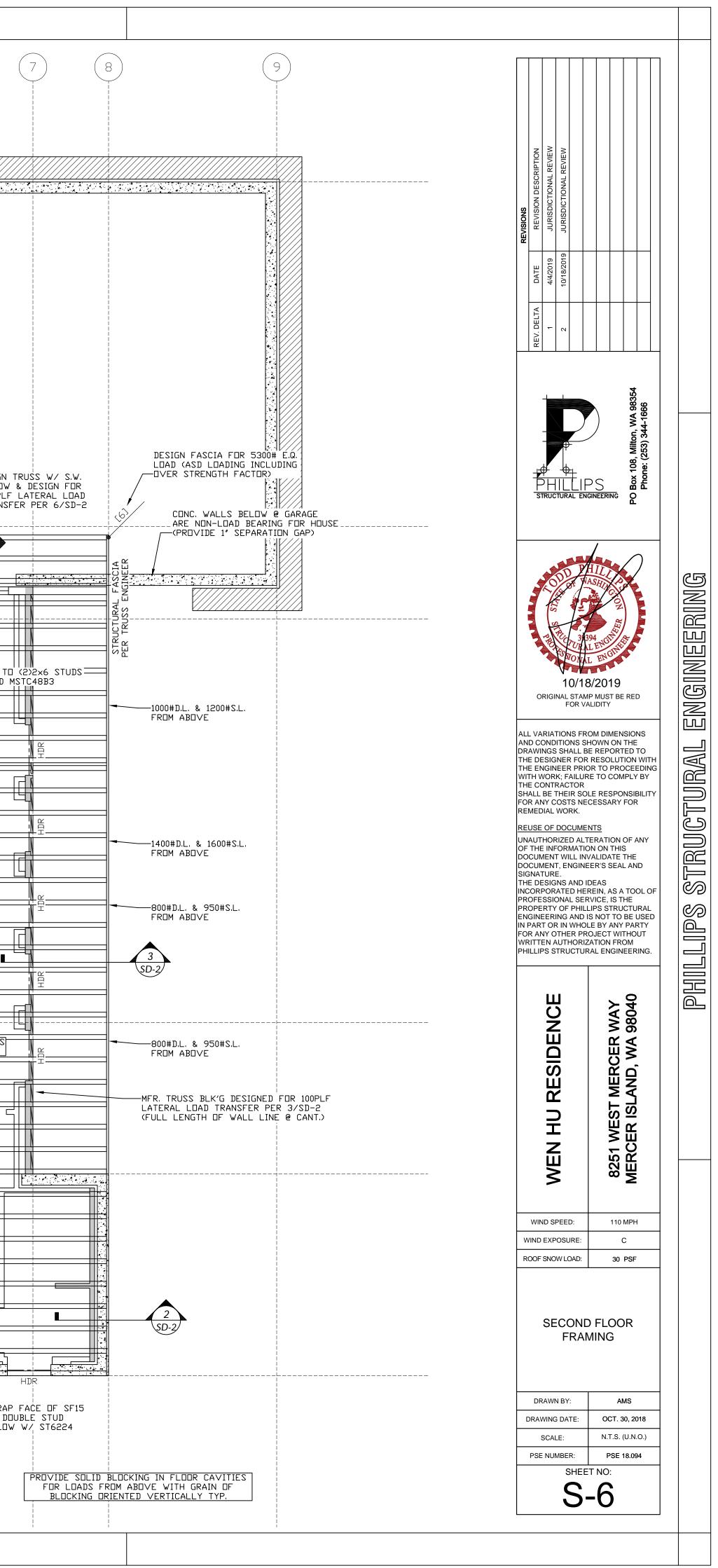


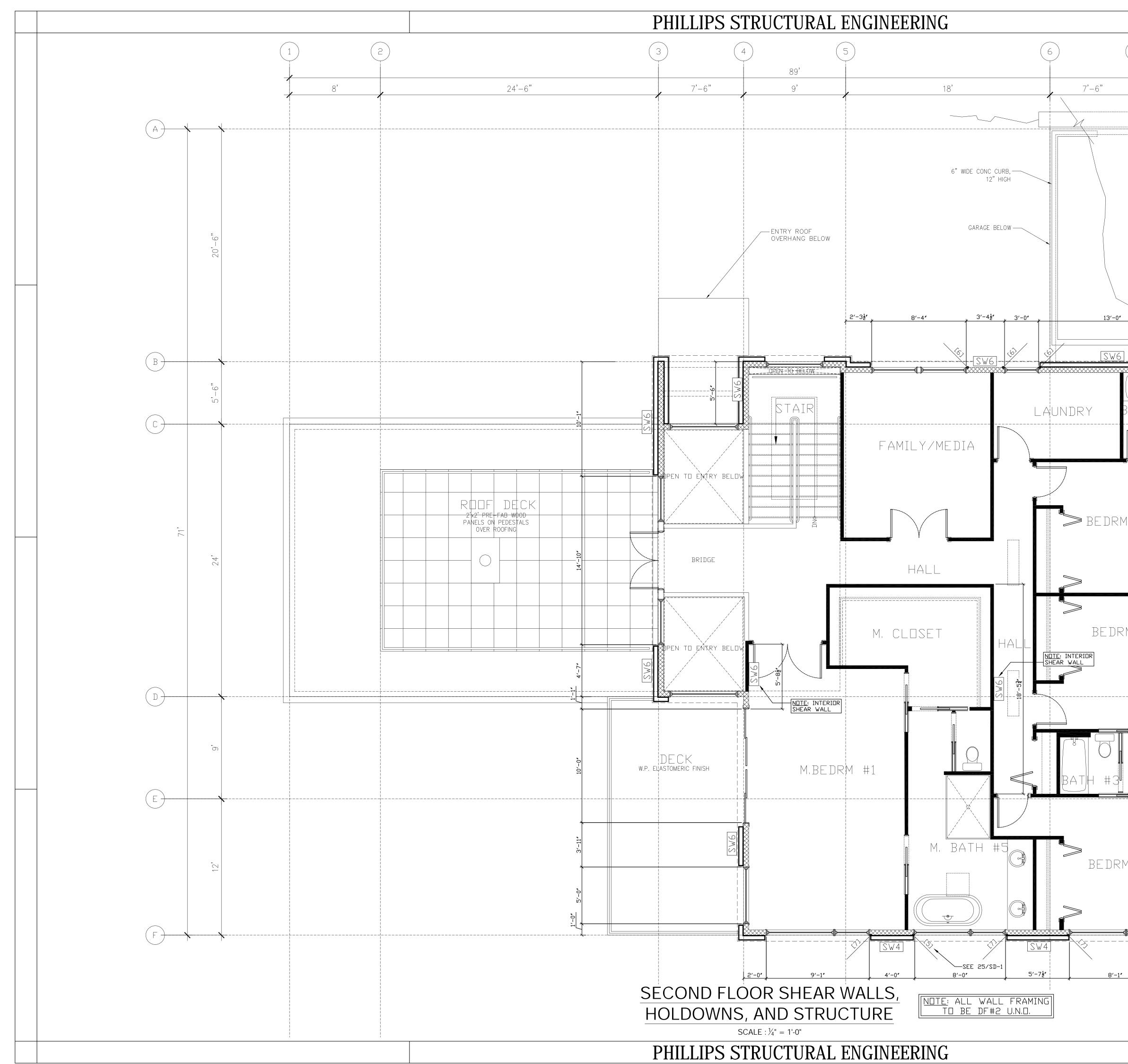




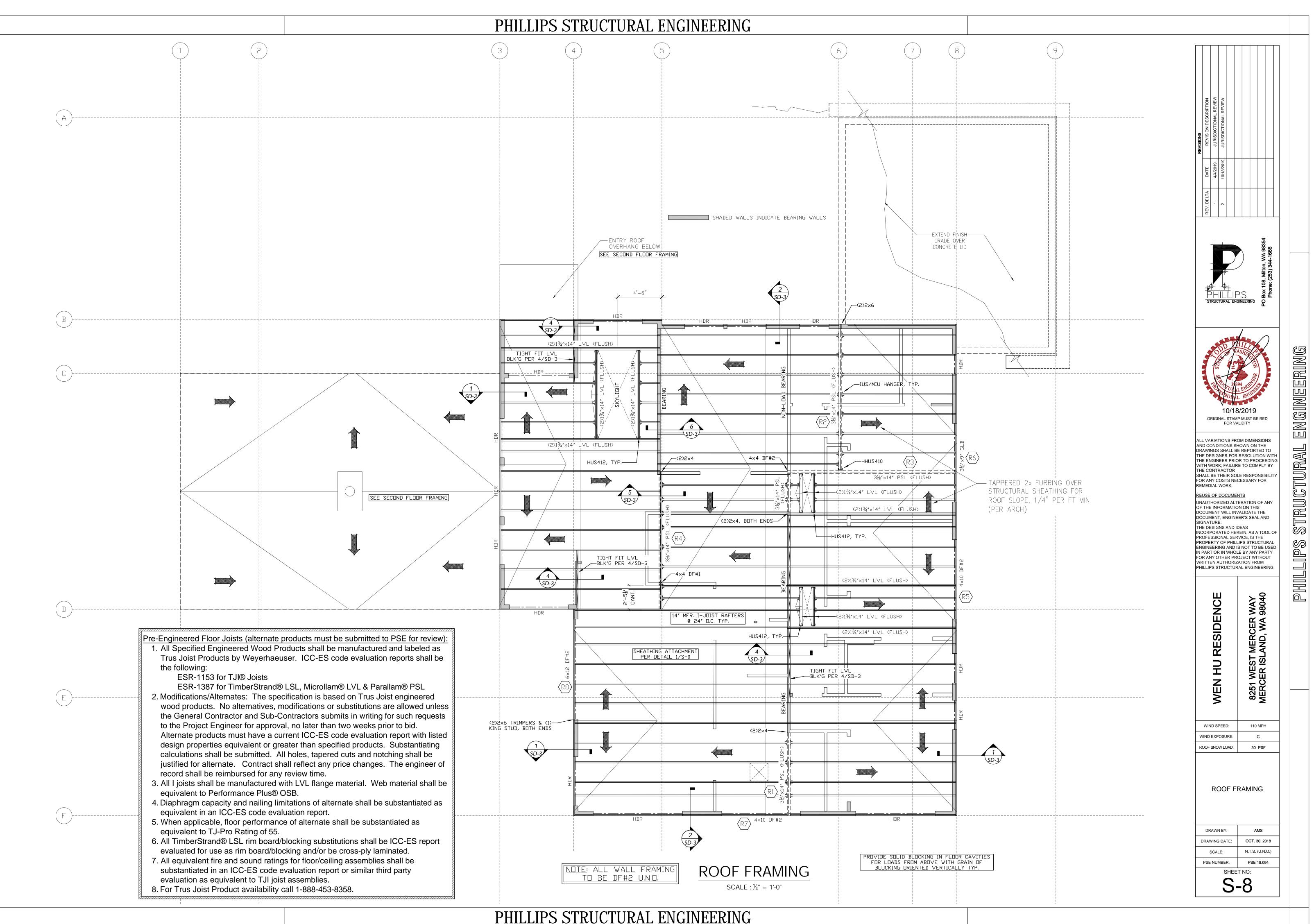


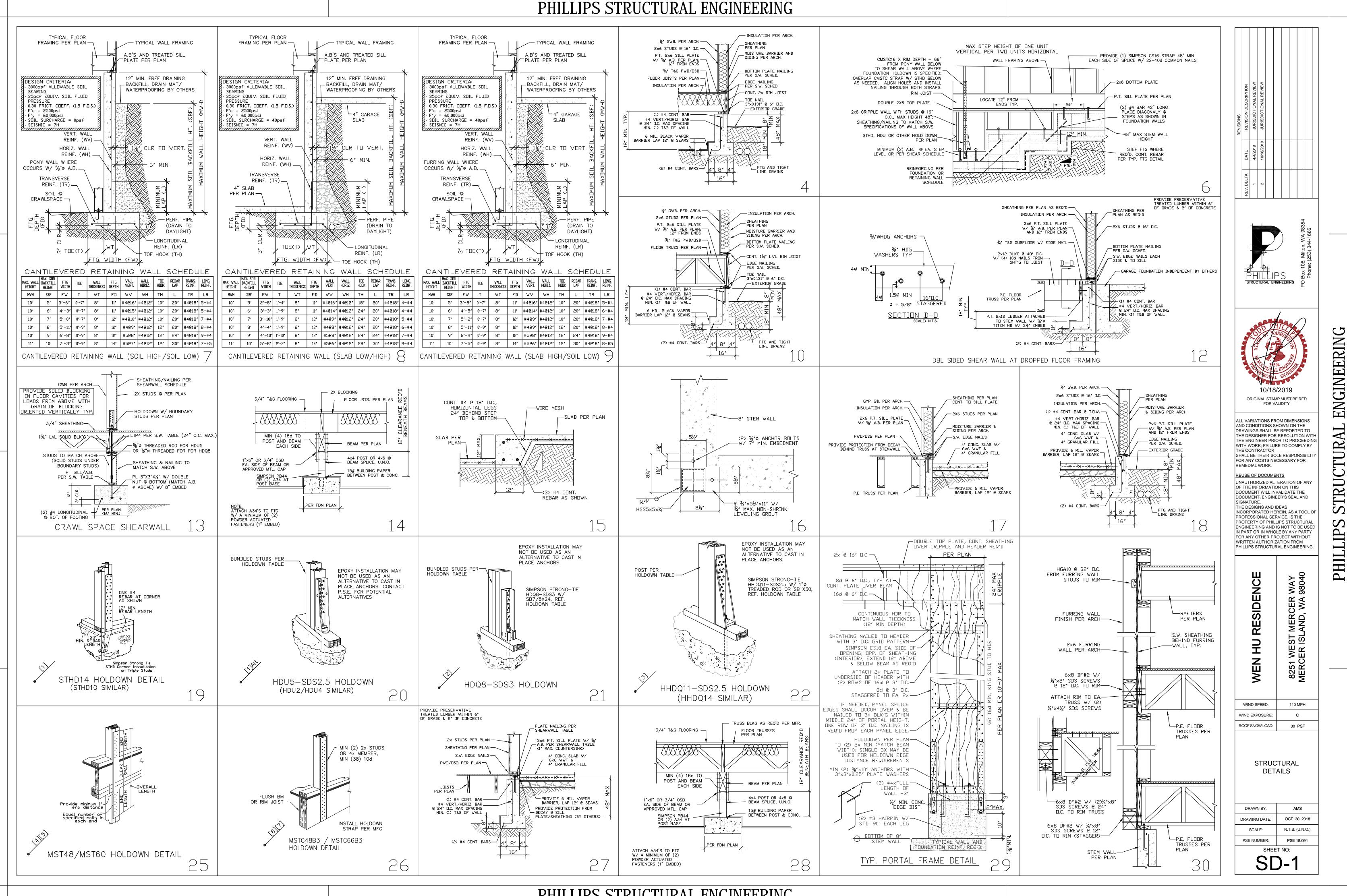
PHILLIPS ST	RUCTURAL F	ENGINEERIN	G		
				6	
		SHADED WA	ALLS INDICATE BEARIN	G WALLS	
CE DF BEAM TD CS18 × 36" MIN. TES PER 7/SD-2 I SETTING BEAM) OR DVER PDRTAL ME PER 29/SD-1	SF10 2×12 HF#2 RAFTERS @ 16" RIPPED ½"/1'-0" PER ARCH (MIN. 8" DEPTH) BEAM POCKET 2×8 CONT. LEDGER W/ (3)16d NAILS TO EACH STUD HDR 2×8 HF#2 FLOOR	(2)2×6	SEE 26/SD-1 HUCQ G. G. GLB (FLUSH) SF17		ALIGN BELDW 300PLF TRANS 6 SD-2
TRIMMERS & (1) TUD, BDTH ENDS 2"×12" GLB (3)2×6 HUC612 TD GLB, BDTH ENDS (3)2×6 HUC612 TD GLB, BDTH ENDS CRAP FRAMING @ EA. DF BRIDGE TD SDLID DCKING DR TRUSS AS W/ CS18 × 60" MIN.	UUS26, TYP. UUS26, TYP. DBL JUIST (3) 2×6 AT BEARING, S TOP PLATES PER 7/SD- STRAP PRIOR TO SETTI OPEN TO BELOW 21 SD-2	STRAP BOTTOM C		SED BEARING D-5 A	-6×6 DF#1
SSEMBLY AND DEAD ULUS26, TYP.	STRAP BOTTOM OF TRUSS TO TOP OF WALL SIM. TO 7/SD (ATTACH STRAP PRIOR TO SETTING PERP. BEAM)	HDR HDR HDR HDR HDR KEDGE NAIL SHEATHING KG, STRAP UNDERSIDE CKING V/ CSI8 AND TO CKING V/ CSI8 AND TO CSI8 AND TO CSI8 AND TO CSI8 AND TO CSI8 AND TO CSI8 AND TO CSI8 AND TO CS			P.E. TRUSS BLKG FOR 12' MIN. IL SHEATHING TO BLKG), STRAP DE OF BLOCKING W/ CS18 AND P OF WALL BEYOND 24" MIN.
DPEN TO BELOW CPEN TO BELOW CRET BEAM- INTO WALL		ENDS	PRDVIDE P.E. TRUSS BLKG FOR 11' MIN. (EDGE NAIL SHEATHING TO BLKG), STRAP UNDERSIDE OF BLOCKING W/ CS18 AND TO TOP OF WALL BEYOND 24* MIN. MIN. 5%*X18* GLB (FLUSH)	18" P.E. MFR. F	
(HSN) HUS1.81/10, TYP. HUS1.81/10, TYP. 18 SD-2 INVERTED MGU5.62-SDS	(2)2×6 TRIMMERS & ( KING STUD, BOTH END %6× %6× %6× %6× %6× %6× %6× %6× %6× %6×		PROVIDE P.E. 11' MIN. (EDGE 11' MIN. (EDGE	-HANGER PER TRUS 20 SD-2 -5%"×6" GLULAM PD -5(DF L1) W/CCQ66	
SF4       HUCQ610-SDS       LCANT.       6×6 DF#2	SF12	4 SD-2			
2412, BOTH ENDS       DBL JOIST         JISTS @ 16" D.C. RIPPED       STRAP DOUBLE         JOISTS TO WALL OR       BLOCKING W/ LSTA24         NOTE:       ALL WALL FI         TO BE DF#2 U.1	SF13 4×10 DF#2 STRAP HDI TRIMMERS W/ ST RAMING N.D.			5½"×10½" GLB	STRA TO D BELO

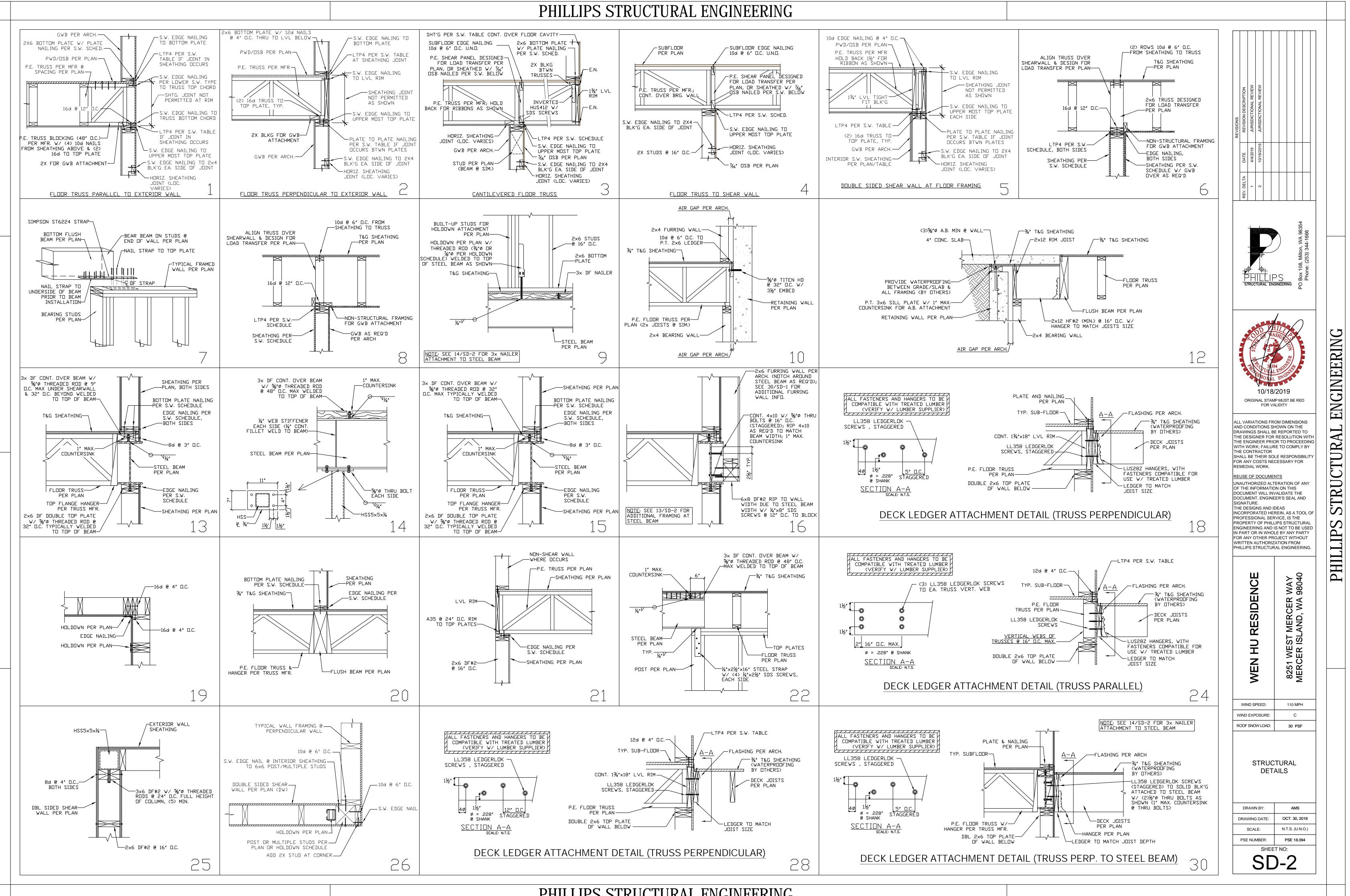


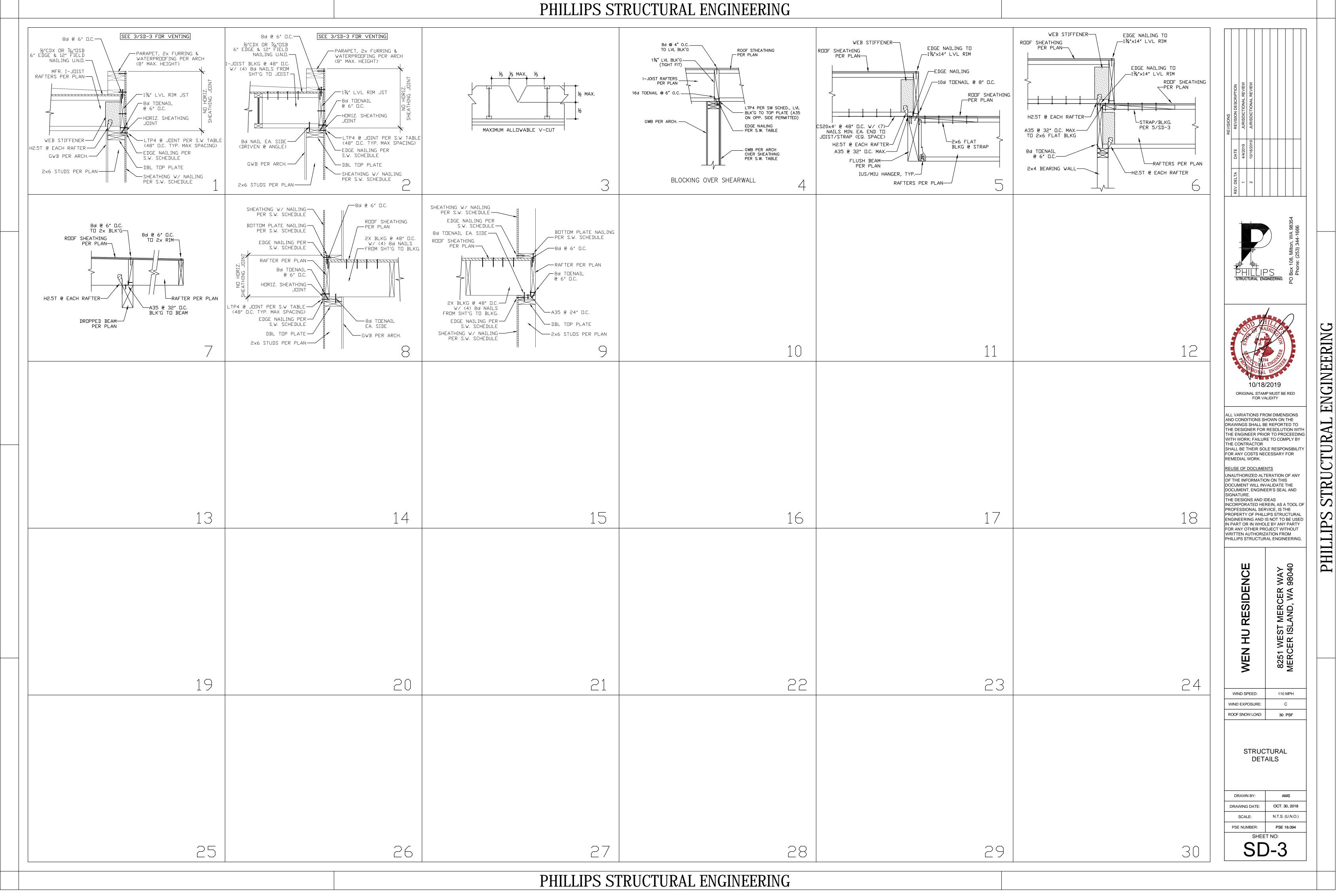


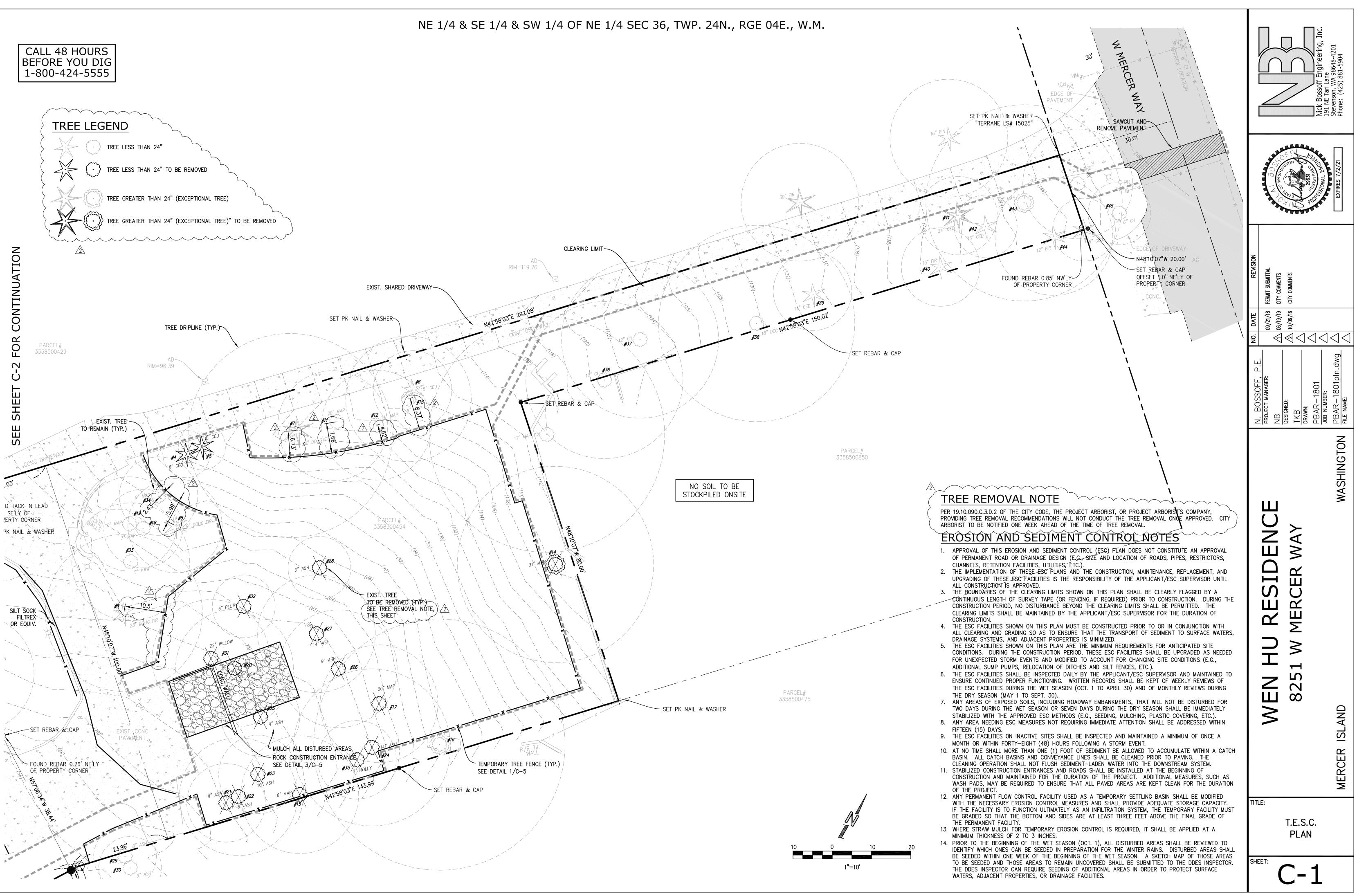
7   8     4'-6"   10'       EXTEND FINISH       GRADE OVER       CONCRETE LID		REVISIONS         REV. DELTA       DATE       REVISION DESCRIPTION         1       4/4/2019       JURISDICTIONAL REVIEW       2         2       10/18/2019       JURISDICTIONAL REVIEW		
ATTACH TO END OF WALL			PO Box 108, Milton, WA 98354 Phone: (253) 344-1666	
	 	COLOR COLOR	94 nontering 94 nontering 972019 P MUST BE RED ALIDITY	ENGINEERING
×,-11, 3,-11, 3,-11,		ALL VARIATIONS FR AND CONDITIONS SF DRAWINGS SHALL B THE DESIGNER FOR THE ENGINEER PRIC WITH WORK; FAILUR THE CONTRACTOR SHALL BE THEIR SO FOR ANY COSTS NE REMEDIAL WORK. REUSE OF DOCUMEN UNAUTHORIZED ALT OF THE INFORMATIC DOCUMENT, ENGINE SIGNATURE. THE DESIGNS AND II INCORPORATED HEI PROFESSIONAL SER PROPERTY OF PHILL ENGINEERING AND I IN PART OR IN WHOI	HOWN ON THE E REPORTED TO RESOLUTION WITH DR TO PROCEEDING E TO COMPLY BY LE RESPONSIBILITY CESSARY FOR <u>NTS</u> ERATION OF ANY DN ON THIS /ALIDATE THE ER'S SEAL AND DEAS REIN, AS A TOOL OF VICE, IS THE .IPS STRUCTURAL S NOT TO BE USED	IPS STRUCTURAL EN
2M #3		FOR ANY OTHER PR WRITTEN AUTHORIZ PHILLIPS STRUCTUR <b>BONDON</b>	ST MERCER WAY SI MERCER WAY SI AND, WA 98040	
₩ #2 3'-0' 8'-9'		WIND SPEED: WIND EXPOSURE: ROOF SNOW LOAD: SHEAR HOLDOW	WALLS, /NS, AND	
<u>2'-2½"</u>		DRAWN BY: DRAWING DATE: SCALE: PSE NUMBER: SHEE SHEE	AMS OCT. 30, 2018 N.T.S. (U.N.O.) PSE 18.094 T NO:	

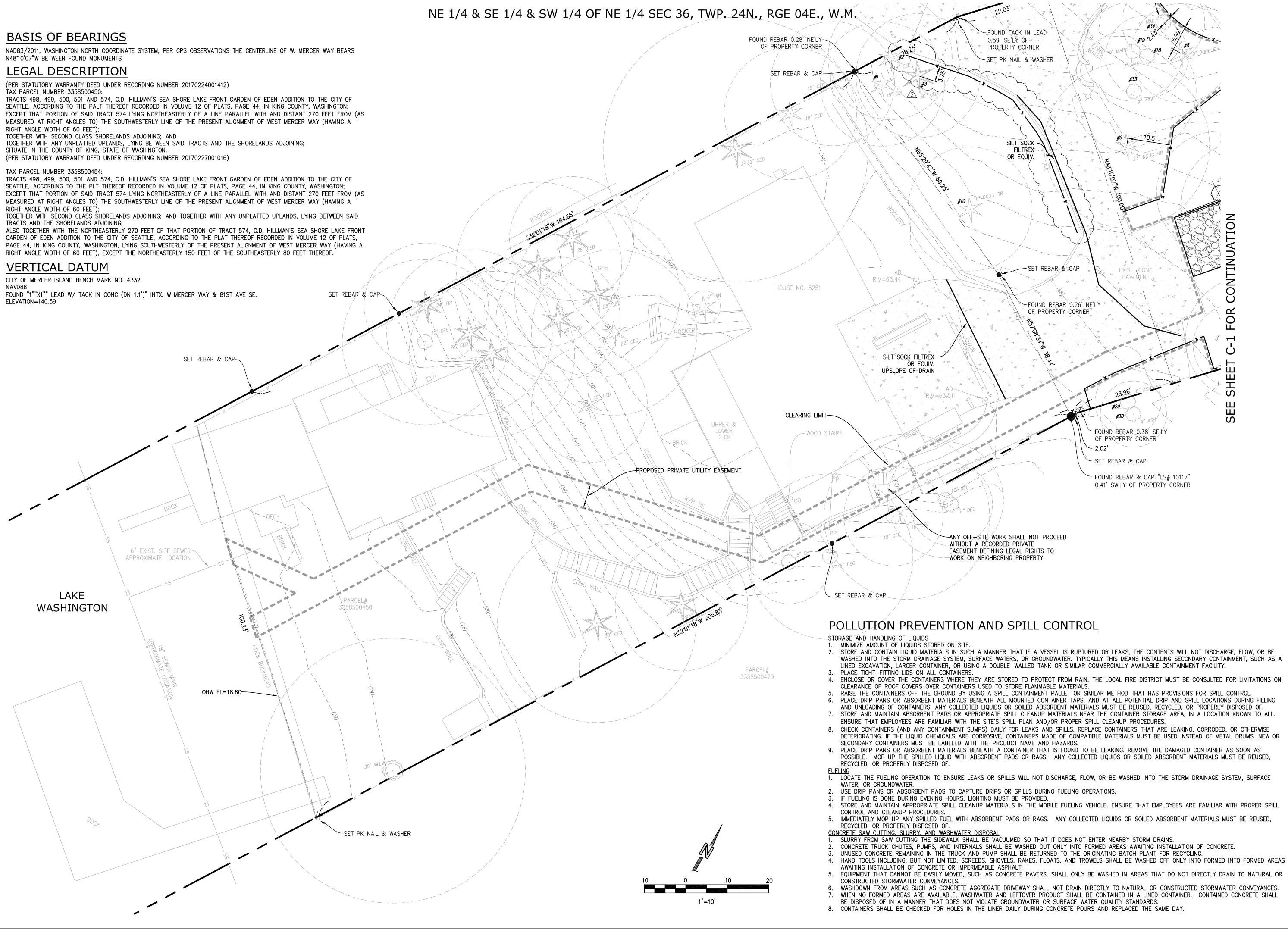


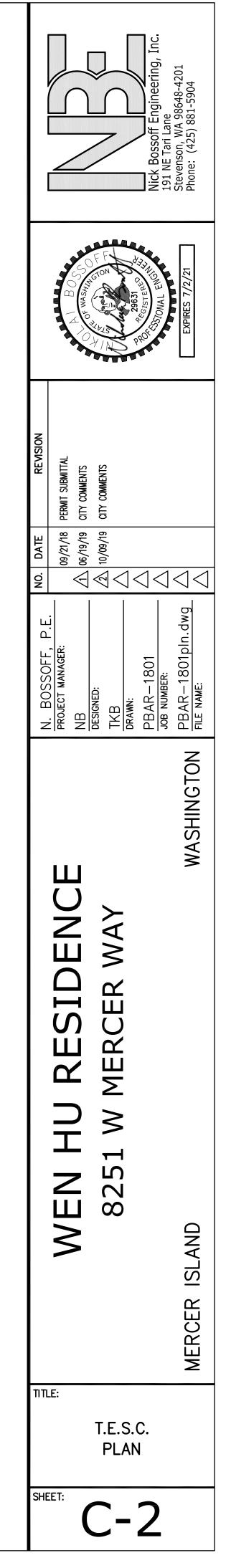










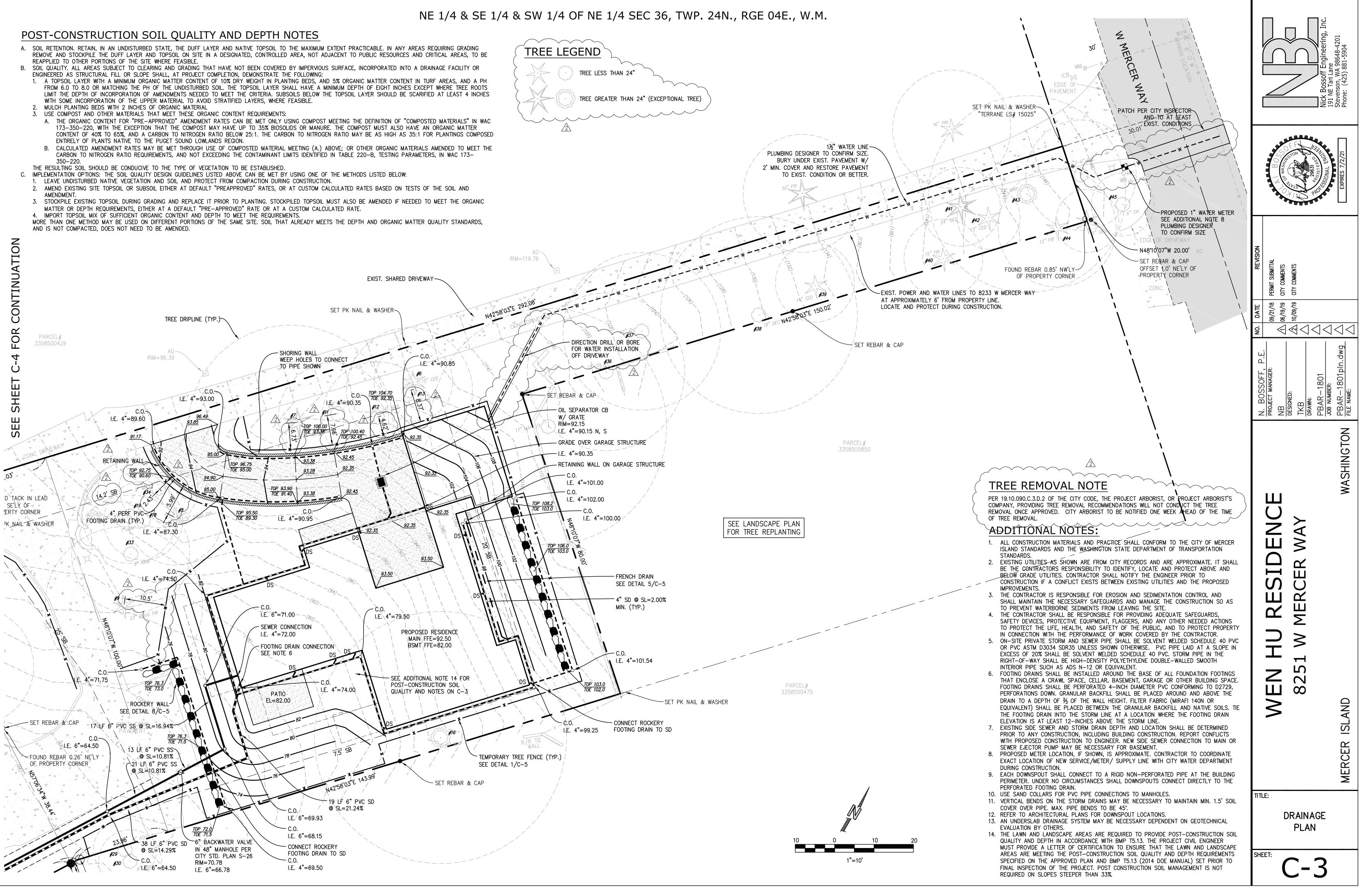


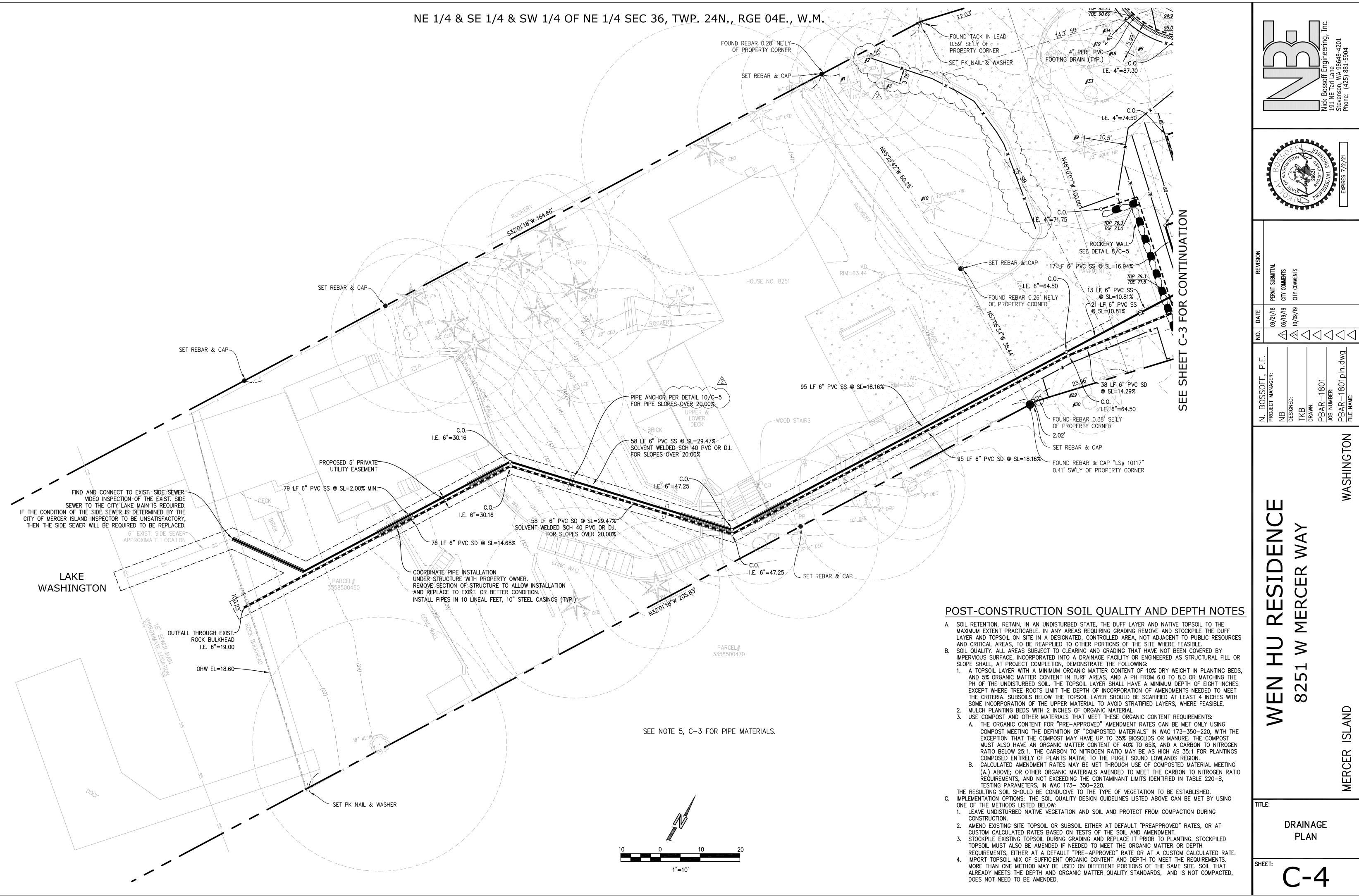
- REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE
- WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.
- USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS:

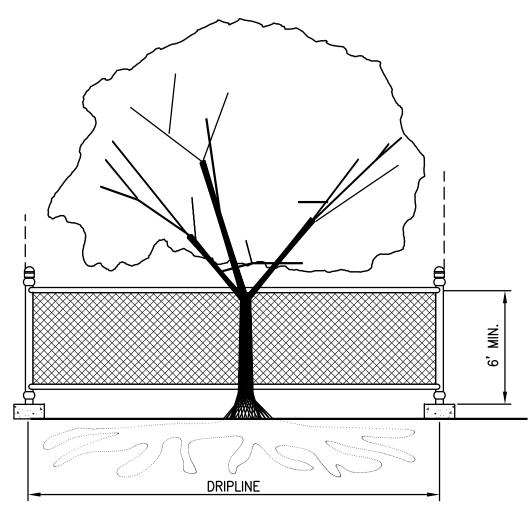
ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.

- 350-220.

- AMENDMENT.



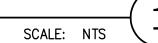




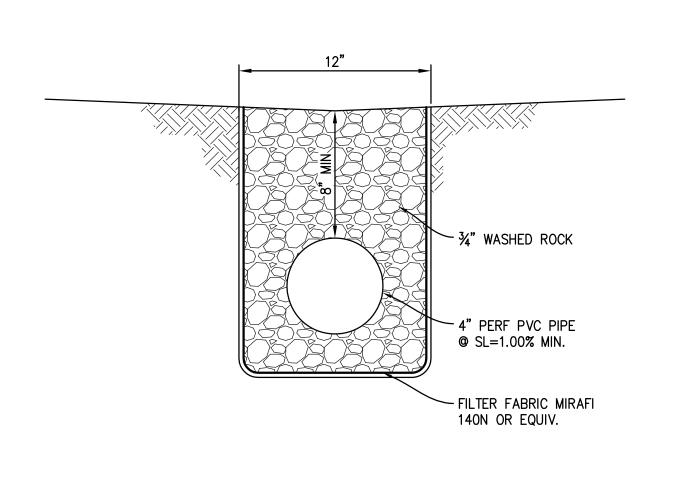
# TREE PROTECTION DURING CONSTRUCTION

- 1. 6-FT. HIGH TEMPORARY CHAIN LINK FENCE SHALL BE PLACED AT THE DRIPLINE OF THE TREE TO BE SAVED. FENCE SHALL COMPLETELY ENCIRCLE THE TREE(S). INSTALL FENCE POSTS USING PIER BLOCKS ONLY. AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
- 2. FOR ROOTS OVER 1-IN DIA. THAT ARE DAMAGED DURING CONSTRUCTION, MAKE A CLEAN, STRAIGHT CUT TO REMOVE THE DAMAGED PORTION. ALL EXPOSED ROOTS SHALL BE TEMPORARILY COVERED WITH DAMP BURLAP TO PREVENT DRYING, AND SHALL BE COVERED WITH SOIL AS SOON AS POSSIBLE.
- WORK WITHIN PROTECTION FENCE SHALL BE DONE MANUALLY. NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN THE LIMIT OF THE FENCING.





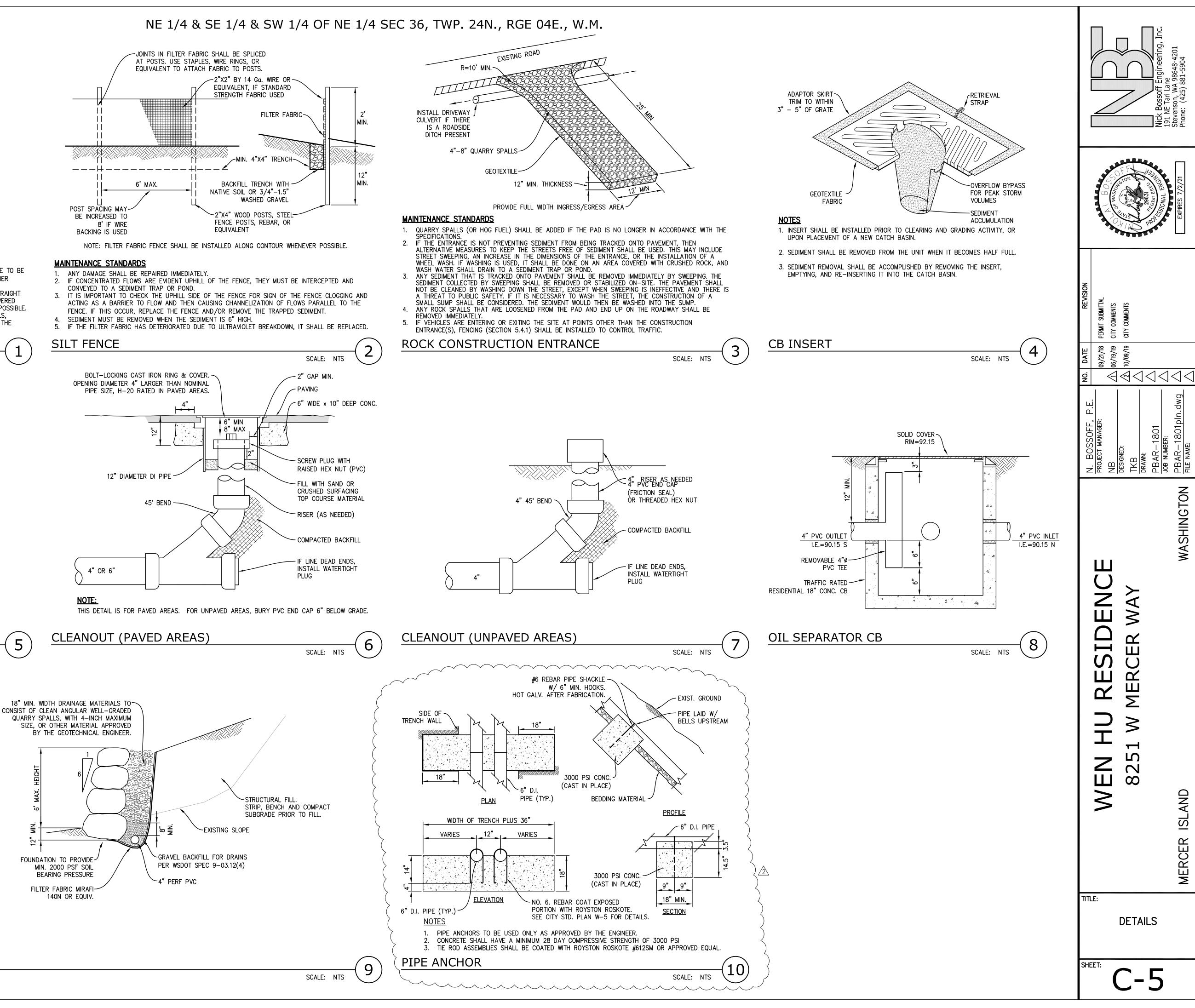
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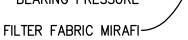


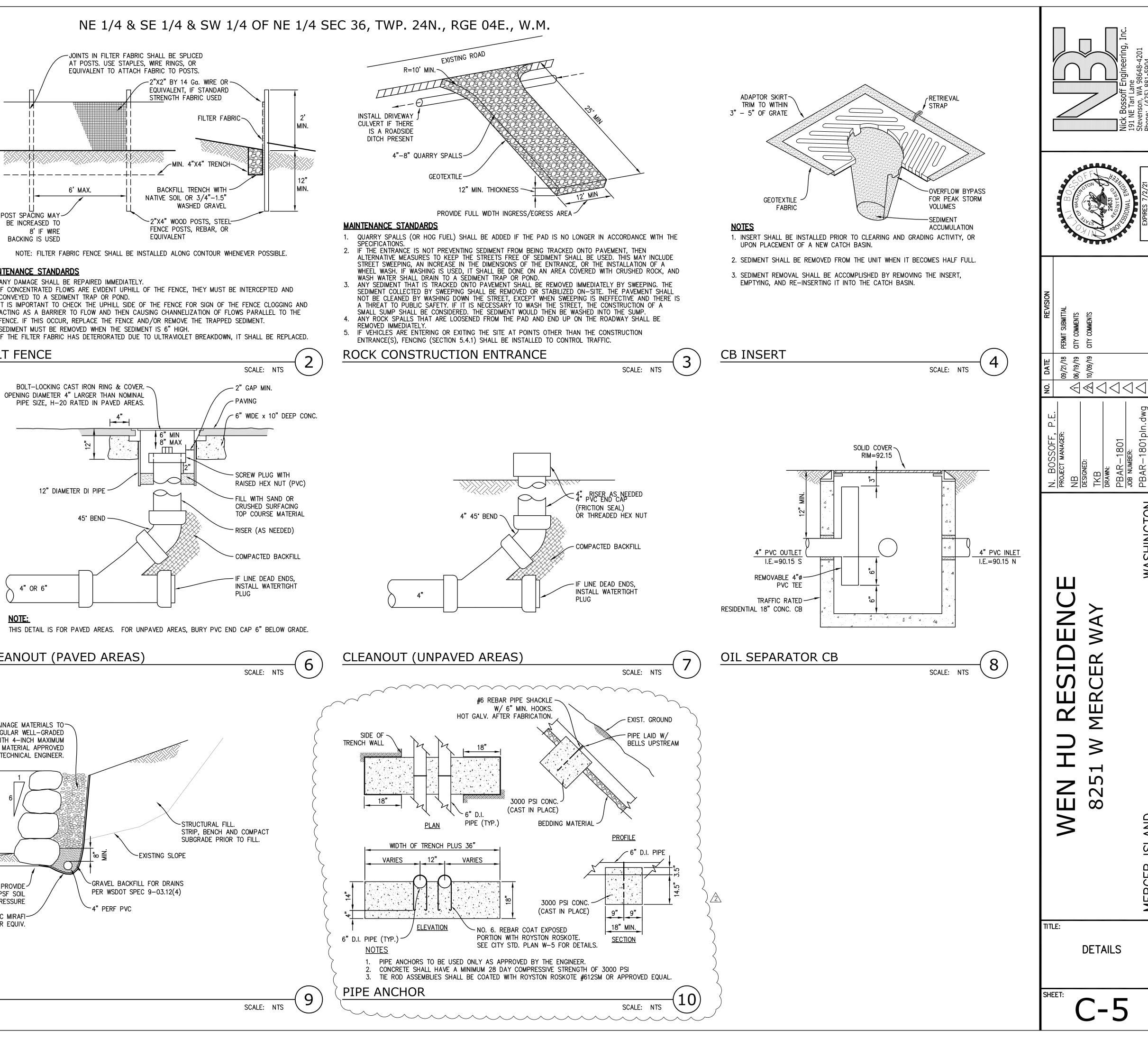
FRENCH DRAIN

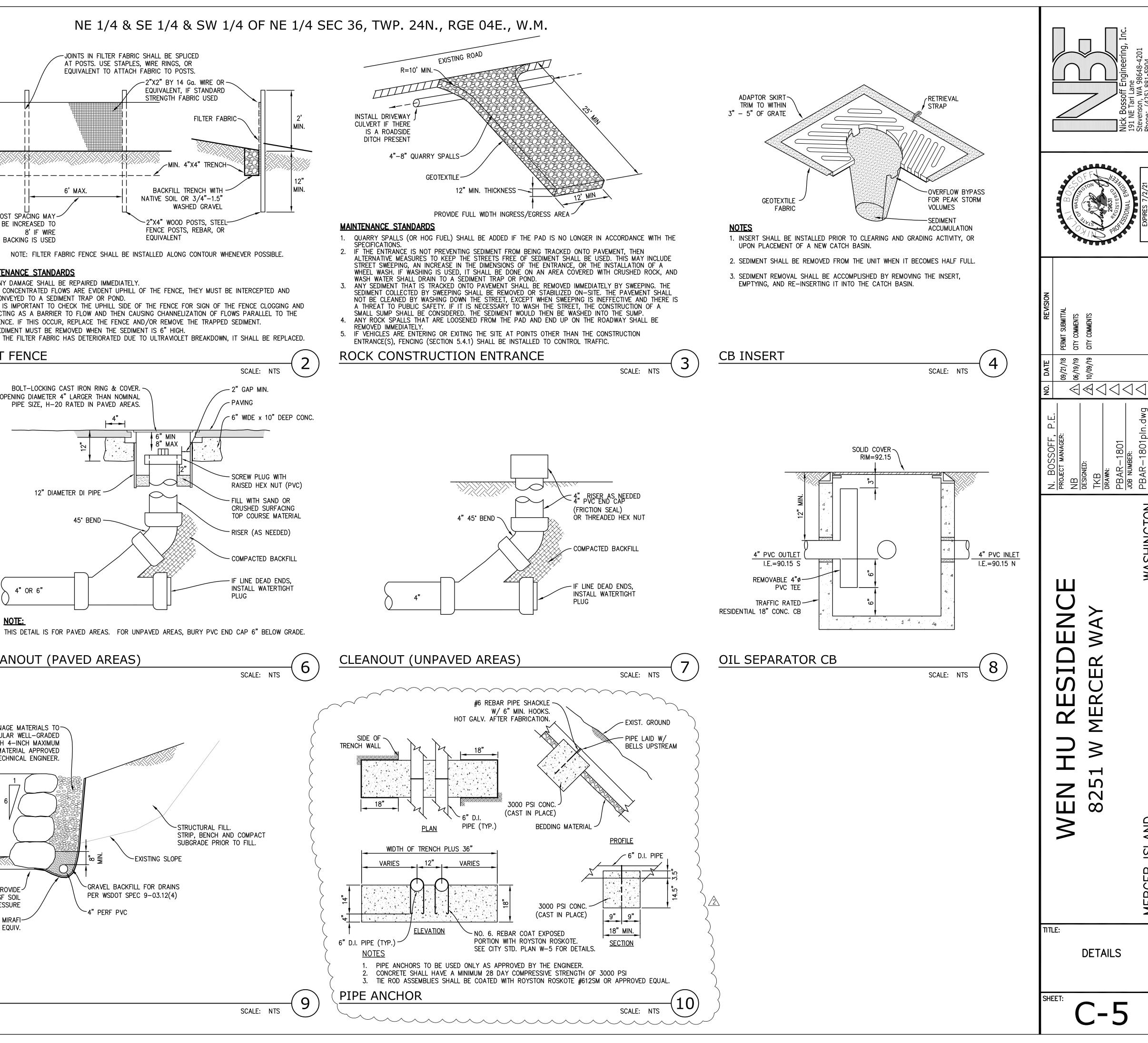


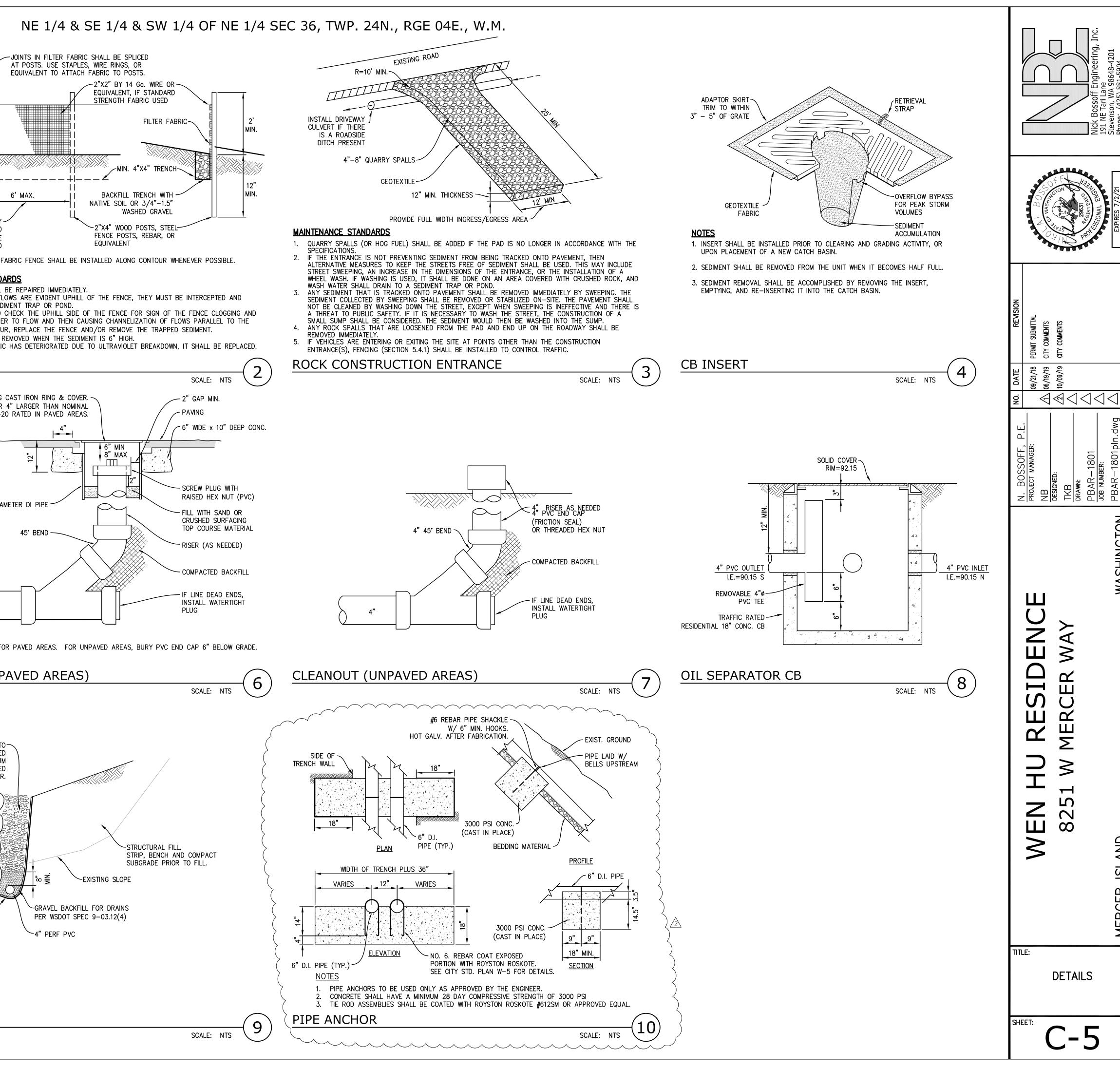
- 1. ROCKERY SHALL BE INSTALLED BY A LICENSED ROCKERY CONTRACTOR AND IN ACCORDANCE WITH THE CITY OF MERCER ISLAND STANDARDS AND GUIDELINES.
- 2. BACKFILL SHALL BE PLACED AND COMPACTED IN LIFTS NOT TO EXCEED 6 INCHES WHERE HAND COMPACTION IS USED, OR 8 TO 10 INCHES WHERE HEAVY COMPACTION EQUIPMENT IS USED. LIFT THICKNESS SHALL BE DECREASED TO ACHIEVE THE REQUIRED COMPACTION DENSITY AS REQUIRED.
- 3. BACKFILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557. THE MOISTURE CONTENT OF THE BACKFILL MATERIAL PRIOR TO AND DURING COMPACTION SHALL BE AT OR NEAR THE OPTIMUM MOISTURE CONTENT.
- 4. ONLY LIGHTWEIGHT HAND-OPERATED EQUIPMENT SHALL BE ALLOWED WITHIN 3 FEET OF THE BACK OF THE ROCKERY. 5. THE ROCKERY CONSTRUCTION SHALL BE OBSERVED BY THE GEOTECHNCIAL ENGINEER ON A PERIODIC OR FULL-TIME BASIS AS APPROPRIATE. TESTING OF THE COMPACTED BACKFILL SHALL BE PERFORMED BY THE GEOTECHNCIAL
- ENGINEER 6. GEOTECH ENGINEER TO MODIFY DESIGN AS NECESSARY FOR SPECIFIC SITE CONDITIONS.

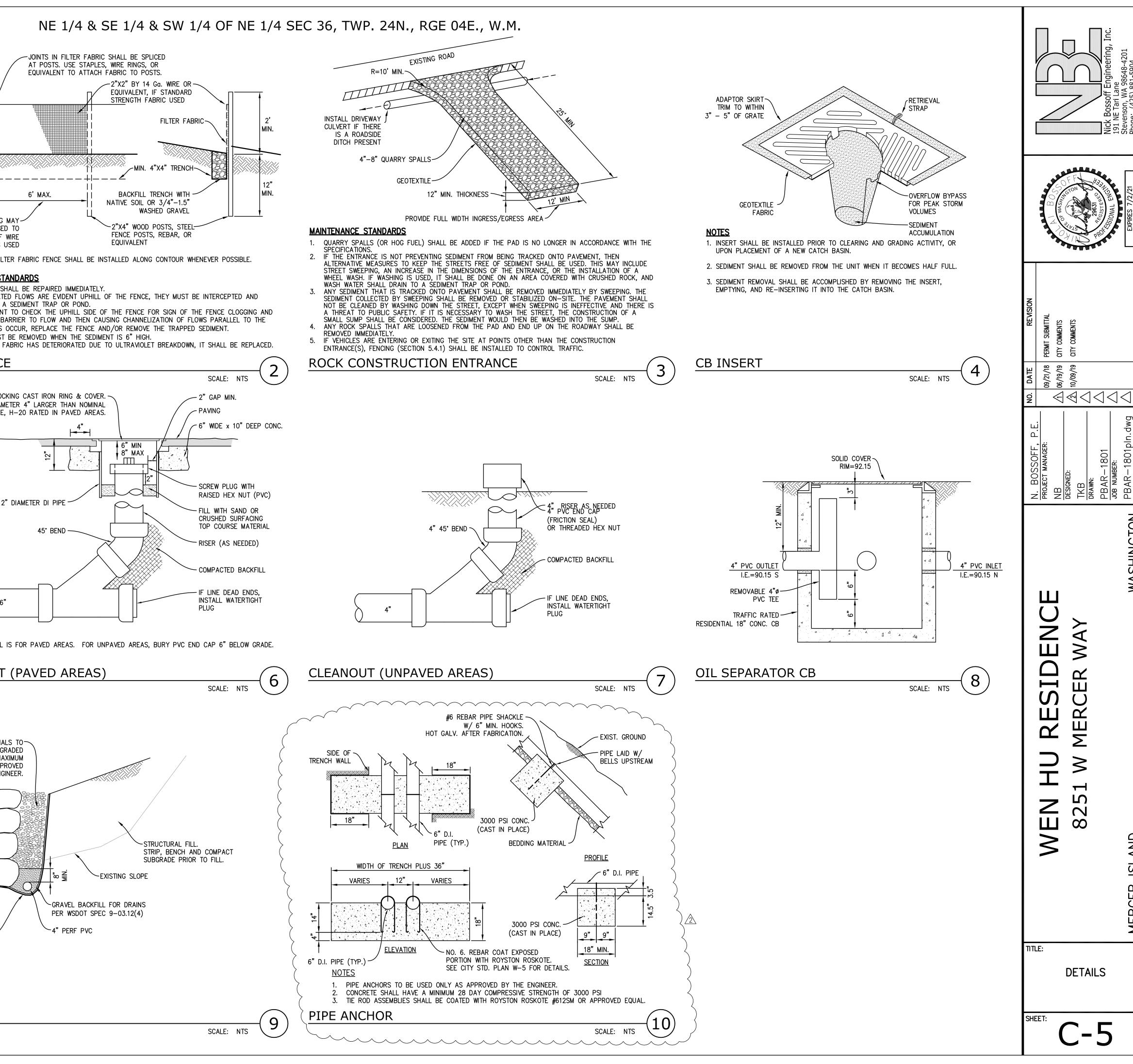


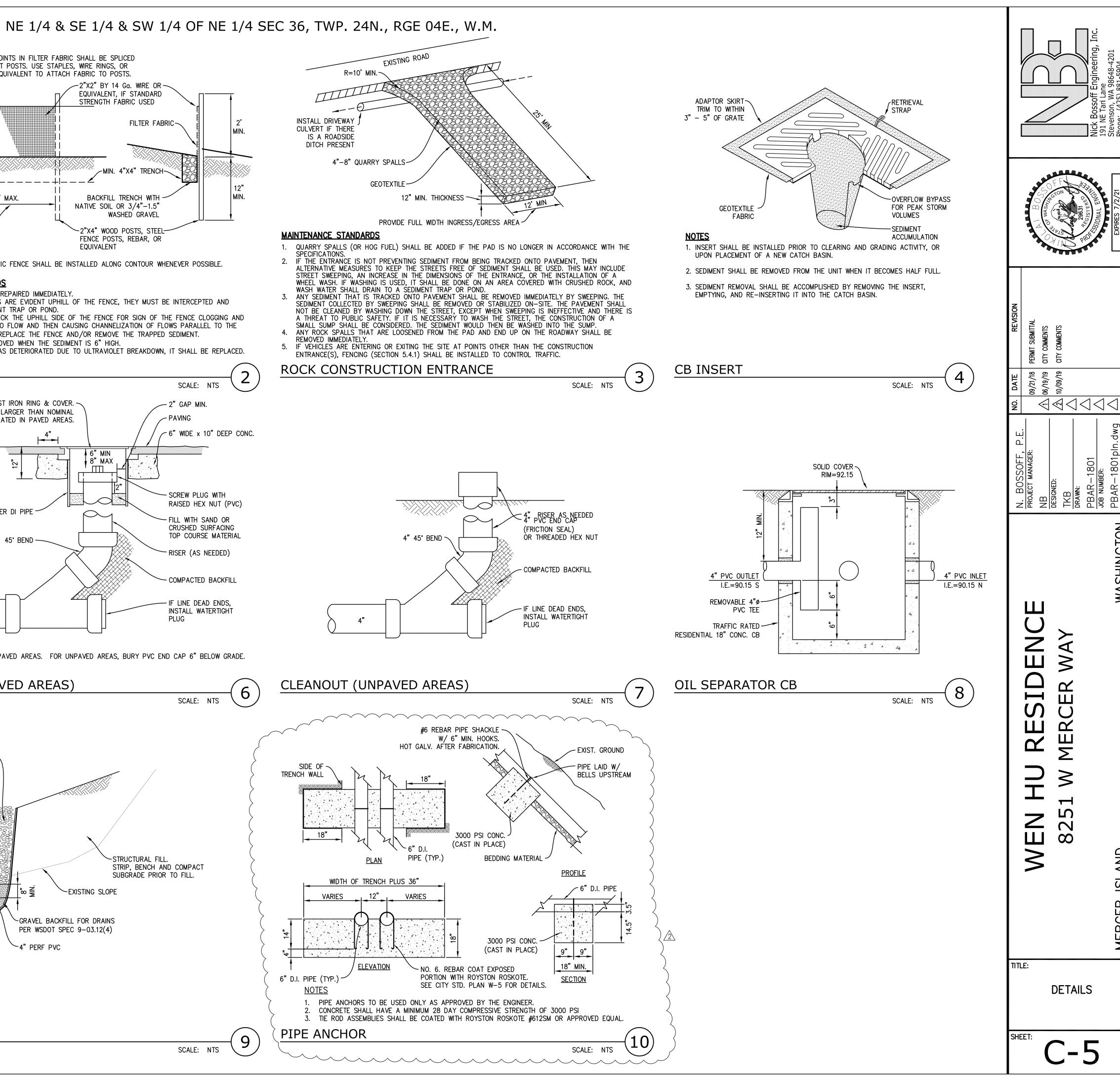


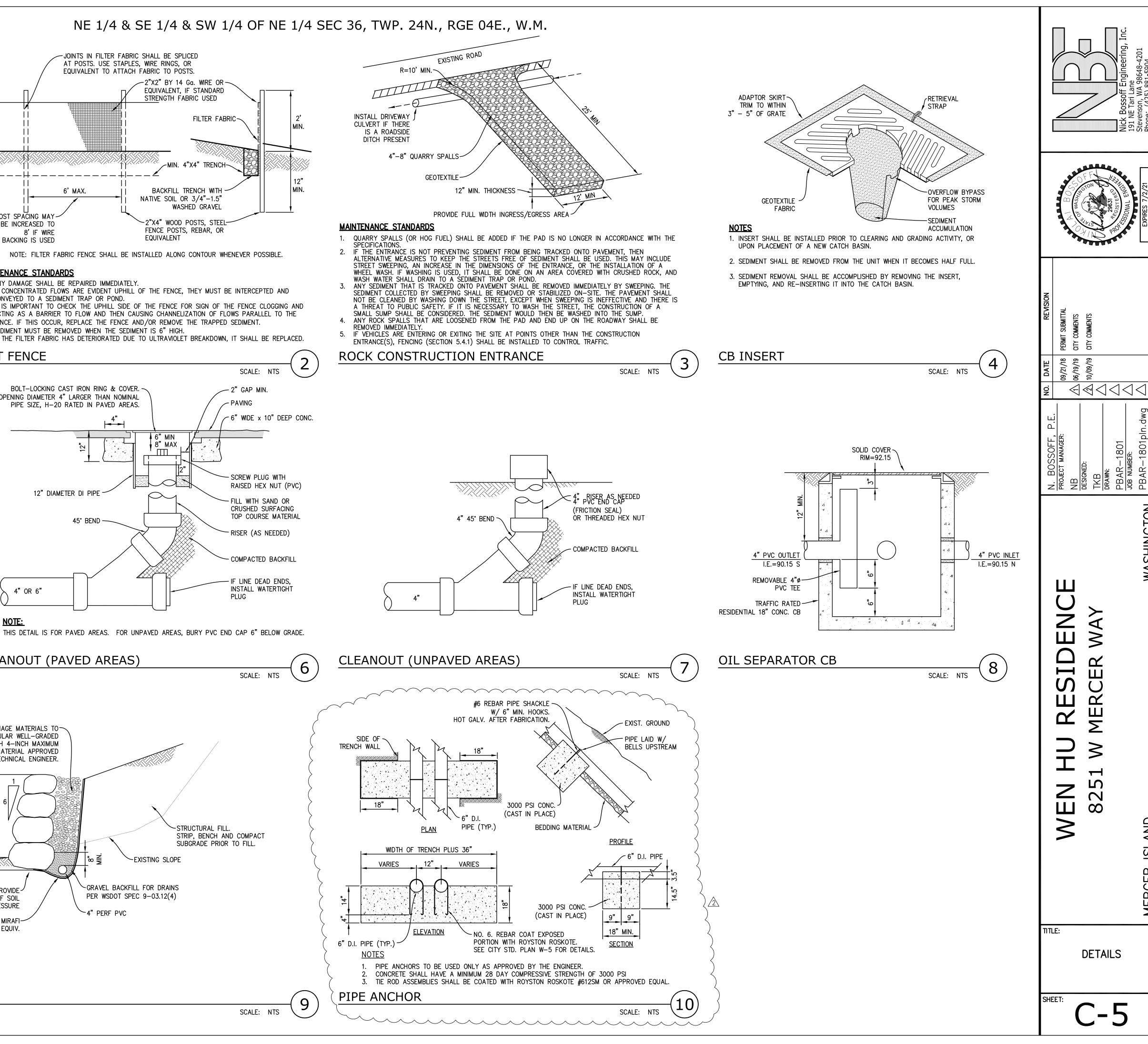




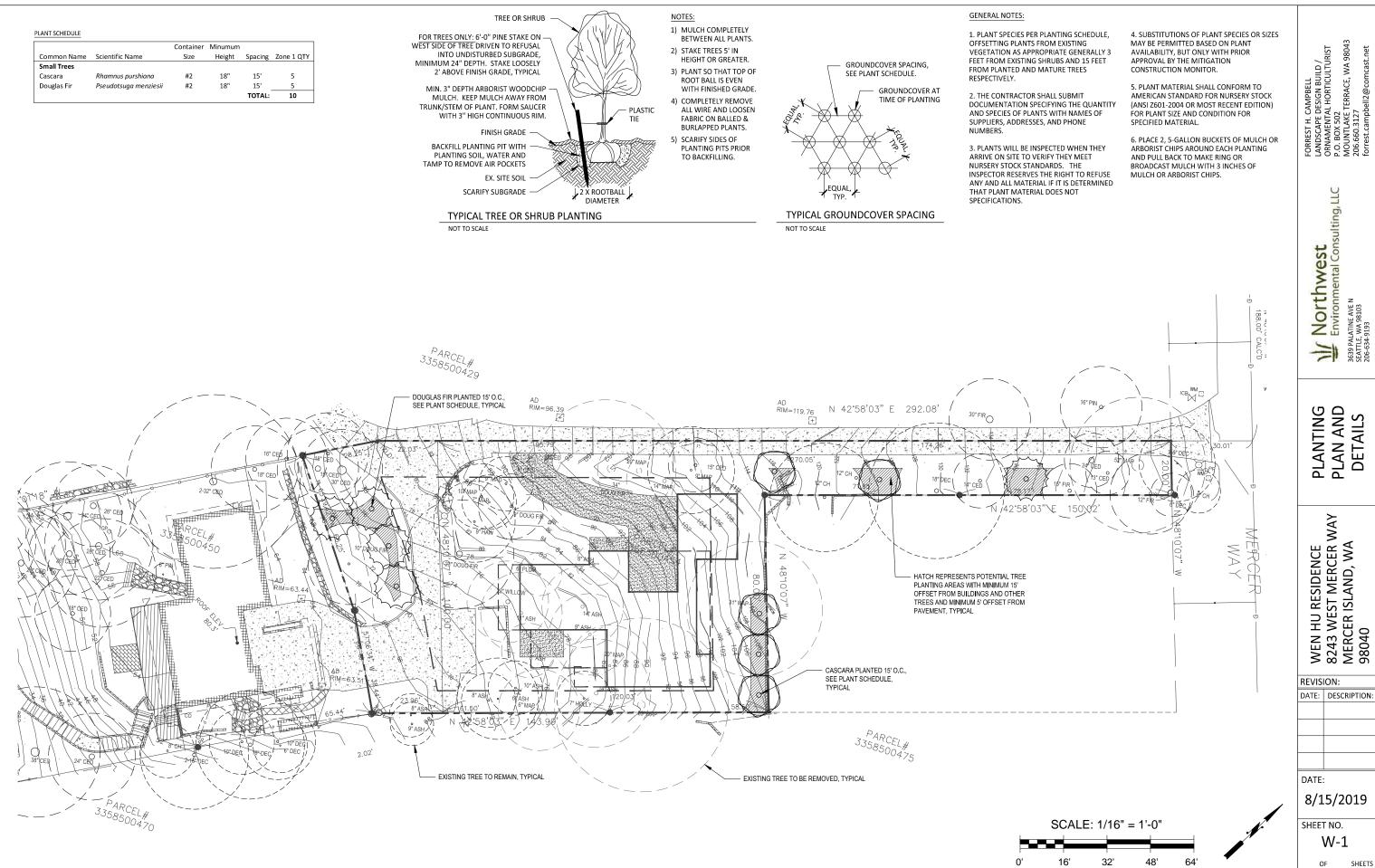








ROCKERY



# 2

## 01000 - GENERAL REQUIREMENTS

THE STRUCTURAL NOTES SUPPLEMENT THE PLANS AND SPECIFICATIONS. ANY DISCREPANC BETWEEN THE DRAWINGS, NOTES, SPECIFICATIONS, SITE CONDITIONS, AND ARCHITECTURAL BE REPORTED TO THE ARCHITECT WHO SHALL CORRECT THE DISCREPANCY IN WRITING. ANY COMPLETED AFTER DISCOVERY OF THE DISCREPANCY SHALL BE DONE AT THE CONTRACTOR REFER TO ARCHITECTURAL PLANS FOR OPENINGS, ARCHITECTURAL TREATMENTS, AND DIME SHOWN. CONSULT MECHANICAL PLANS FOR DUCTS AND PIPES ETC. NOT SHOWN.

THE CONTRACTOR SHALL PROVIDE BRACING AND SUPPORT REQUIRED FOR TEMPORARY COM LOADS AND FOR STRUCTURAL COMPONENTS AS REQUIRED DURING ERECTION. BACKFILL BEH SHALL NOT BE PLACED UNTIL THE WALLS ARE PROPERLY SUPPORTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK INCLUDING BU LIMITED TO EXCAVATION, SHORING, AND OTHER WORK WITH ALL UTILITIES AND ADJACENT PR CALL THE UTILITY LOCATE SERVICE PRIOR TO ANY WORK AT 1-800-424-5555.

### 01001 - CODE REQUIREMENTS ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2015 INTERNATIONAL BUILDING CO

ADOPTED BY MERCER ISLAND, WASHINGTON.

### 01100 - DESIGN LOADS DEAD LOADS:

ACTUAL WEIGHT OF MATERIALS OF CONSTRUCTION AND PERMANENT EQUIPMENT. FLOOR LIVE LOADS:

FLOORS (RESIDENTIAL)	40 PSF
ROOF LIVE LOADS: ROOF	20 PSF

# ROOF

SNOW LOAD DESIGN DATA: Pg = 20 PSF, Pf = 20 PSF, Ce = 0.9, Is = 1.0, Ct = 1.0, 25 PSF UNIFORM

WIND	DESIGN	DATA:

WIND DESIGN DATA:		
BASIC WIND SPEED	110 MPH (3-S	SECOND GUST)
WIND IMPORTANCE FACTOR	lw = 1.0	,
WIND EXPOSURE	EXPOSURE I	В
TOPOGRAPHICAL FACTOR	Ktz = 2.00	
INTERNAL PRESSURE COEFFICIENT	GCpi = +/- 0.2	18
COMPONENT/CLADDING WIND PRESSURE	P(C) = 25 PS	F
EARTHQUAKE DESIGN DATA:		
SEISMIC IMPORTANCE FACTOR	le = 1.0	
OCCUPANCY CATEGORY	II	
SPECTRAL RESPONSE ACCELERATIONS	Ss = 1.466	S1 = 0.557
SITE CLASS	П	

	16 - 1.0	
OCCUPANCY CATEGORY	II	
SPECTRAL RESPONSE ACCELERATIONS	Ss = 1.466	S1 = 0.557
SITE CLASS	D	
SPECTRAL RESPONSE COEFFICIENTS	SDS = 0.977	SD1 = 0.571
SEISMIC DESIGN CATEGORY	D	
CONCRETE LEVEL - BEARING WALL SYSTEM	R = 5.0	Cs = 0.194

### 01200 - FOUNDATIONS

EARTHWORK AND FOUNDATIONS SHALL BE CONSISTENT WITH GEOTECHNICAL ENGINEERING RECOMENDATIONS. ALL FOUNDATIONS SHALL BE FOUNDED ON COMPETENT NATIVE MATERIA OTHER MEANS AS DEFINED BY THE GEOTECHNICAL ENGINEER.

SEE THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY PANGEO INC., (PROJECT 17-40 FEBRUARY 8, 2018. FOUNDATIONS SHALL BE SUPPORTED ON CONVENTIONAL FOOTINGS WITH ALLOWABLE BEARING PRESSURE OF 3000 PSF.

DESIGN PARAMETERS ARE AS FOLLOWS: ACTIVE EARTH PRESSURE (YIELDING) 35 PCF ACTIVE EARTH PRESSURE (AT-REST) PASSIVE EARTH PRESSURE COEFFICIENT OF FRICTION SEISMIC SURCHARGE SOIL PROFILE

55 PCF 300 PCF (ALLOWABLE) 0.30 (ALLOWABLE) 7H UNIFORM SITE CLASS D

01300 - SHOP DRAWING SUBMITTAL PROCESS

SHOP DRAWINGS ARE TO BE SUBMITTED TO THE ARCHITECT AND ENGINEER OF RECORD FOR PRIOR TO FABRICATION. IF SHOP DRAWINGS DIFFER FROM THE APPROVED DESIGN DRAWING DESIGN DRAWINGS BEARING THE SEAL AND SIGNATURE OF A LICENSED STATE OF WASHINGT STRUCTURAL ENGINEER SHALL BE SUBMITTED ALONG WITH THE SHOP DRAWINGS TO THE BU OFFICIAL FOR APPROVAL PRIOR TO FABRICATION.

### 01400 - INSPECTIONS AND SPECIAL INSPECTIONS THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL INSPECTIONS REQUIRED BY BUILDING DEPARTMENT. SPECIAL INSPECTION FOR ELEVATED CONCRETE SLAB IS REQUIRED

SPECIAL INSPECTIONS ARE NOT REQUIRED FOR GROUP R-3 OCCUPANCIES UNLESS OTHERWI REQUIRED BY THE BUILDING OFFICIAL.

### 01402: QUALITY ASSURANCE REQUIREMENTS THE QUALITY ASSURANCE PLAN SHALL BE TO VERIFY THAT THE SPECIAL INSPECTIONS NOTED 01400 AND THE STRUCTURAL OBSERVATION NOTED IN SECTION 01500 HAVE BEEN COMPLETED

SUPPORTING DOCUMENTATION NOTED IN SUCH SECTIONS HAS BEEN PROVIDED. QUALITY ASSURANCE PLAN IS NOT REQUIRED FOR STRUCTURES OF LIGHT WOOD FRAMING W

SPECTRAL RESPONSE AT SHORT PERIODS, SDS, NOT EXCEEDING 0.50g. QUALITY ASSURANCE PLAN IS NOT REQUIRED FOR WIND EXPOSURE B WHERE BASIC WIND SP

THAN 120 MPH. SUMMARY: A QUALITY ASSURANCE PLAN IS NOT REQUIRED BY CODE FOR THIS STRUCTURE.

01500 - STRUCTURAL OBSERVATION STRUCTURAL OBSERVATION IS NOT REQUIRED.

### 01600 - QUALITY ASSURANCE REQUIREMENTS THE QUALITY ASSURANCE PLAN SHALL BE TO VERIFY THAT THE SPECIAL INSPECTIONS NOTED IN SECTION 01400 AND THE STRUCTURAL OBSERVATION NOTED IN SECTION 01500 HAV

COMPLETED AND THAT SUPPORTING DOCUMENTATION NOTED IN SUCH SECTIONS HAS BEEN QUALITY ASSURANCE PLAN IS NOT REQUIRED FOR STRUCTURES OF LIGHT WOOD FRAMING W

SPECTRAL RESPONSE AT SHORT PERIODS, SDS, NOT EXCEEDING 0.50g. QUALITY ASSURANCE PLAN IS NOT REQUIRED FOR WIND EXPOSURE B WHERE BASIC WIND SE LESS THAN 120 MPH.

SUMMARY: A QUALITY ASSURANCE PLAN IS NOT REQUIRED BY CODE FOR THIS STRUCTURE.

01700 - EXECUTION REQUIREMENTS INSTALLATION OF ALL STRUCTURAL COMPONENTS SHALL BE AS REQUIRED PER ALL LOCAL C

# 02000: SITE CONSTRUCTION

ALL SITE CONSTRUCTION SHALL BE CONSISTENT WITH THE GEOTECHNICAL ENGINEERING RECOMMENDATIONS AS NOTED IN THE GEOTECHNICAL ENGINEERING REPORT (SEE SECTION AND IN SUBSEQUENT DIRECTIVES.

02100 - EXCAVATION SUPPORT AND PROTECTION

EXCAVATION FOR FOUNDATIONS SHALL BE PER PLAN DOWN TO UNDISTURBED NATIVE MATER THE GEOTECHNICAL ENGINEERING RECOMMENDATIONS. OVER-EXCAVATED AREAS SHALL BE BACKFILLED WITH LEAN CONCRETE OR PER GEOTECHNICAL RECOMMENDATIONS AT THE CONTRACTOR'S EXPENSE.

EXCAVATION SLOPES SHALL BE SAFE AND SHALL NOT BE GREATER THAN THE LIMITS SPECIFIE LOCAL, STATE, AND NATIONAL SAFETY REGULATIONS.

INSTALLATION OF CONSTRUCTION SHORING, IF REQUIRED, SHALL BE PER THE SHORING DRAV NOTES, AND SPECIFICATIONS.

# STRUCTURAL NOTES

CY FOUND AL PLANS SHALL NY WORK DR'S RISK. IENSIONS NOT	02200 - BACKFILL AND COMPACTION BACKFILL SHALL NOT BE PLACED UNTIL THE REMOVAL OF FORMWORK AND OF ANY DEBRIS. BACKFILL BEHIND ALL WALLS SHALL NOT BE PLACED UNTIL THE WALLS ARE PROPERLY SUPPORTED. ALL BACKFILL MATERIAL AND PLACEMENT PROCEDURES SHALL BE CONSISTENT WITH THE GEOTECHNICAL ENGINEERING RECOMMENDATIONS.
ONSTRUCTION EHIND WALLS	03000 - CAST-IN-PLACE CONCRETE CONCRETE CONSTRUCTION SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE STANDARD ACI 318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
BUT NOT PROPERTIES.	CEMENT AND CONCRETE SHALL CONFORM TO IBC SECTION 1903. ADMIXTURES SHALL BE APPROVED BY THE ENGINEER OF RECORD AND SHALL COMPLY WITH ACI 318-14 SECTION 3.6. CONCRETE EXPOSED TO FREEZING AND THAWING SHALL HAVE AN AIR ENTRAINING ADMIXTURE CONFORMING TO IBC SECTION 1904.2. THE USE OF WATER SOLUBLE CHLORIDE ION SHALL NOT BE USED.
CODE AS	CONCRETE MIX DESIGNS SHALL MEET THE FOLLOWING REQUIREMENTS: (1) 28 DAY MAX. STRENGTH fc [PSI] (2) MAX. WATER / CEMENT RATIO (3) MAX. SLUMP [IN] (4) AIR ENTRAINMENT [%] (5) SPECIAL INSPECTION REQUIRED (6) MIN. 90 LB SACKS OF CEMENT (7) LOCATION AND APPLICATION.
	(1)       (2)       (3)       (4)       (5)       (6)       (7)         3000       0.45       4+/-1       5+/-1       NO       EXTERIOR SLAB ON GRADE         3000       0.45       4+/-1       0+/-1       NO       INTERIOR SLAB ON GRADE         3000       0.50       5+/-1       0+/-1       NO       FOOTINGS         4000       0.45       5+/-1       5+/-1       NO       WALLS         4000       0.45       5+/-1       5+/-1       YES       ELEVATED SLABS
	CHAMFER ALL EXPOSED CORNERS PER THE ARCHITECTURAL PLANS OR 3/4 INCH IF NOT SPECIFIED BY THE ARCHITECT.
	<b>03100 - REINFORCING STEEL</b> REINFORCING STEEL DETAILING, FABRICATION, AND PLACEMENT SHALL BE PER ACI 318-14. REINFORCING STEEL SHALL MEET THE FOLLOWING REQUIREMENTS: ASTM A-615 DEFORMED BARS GRADE 40 (fy=40 KSI) FOR #3 BARS ONLY
	ASTM A-015 DEFORMED BARS GRADE 40 (1)-40 KSI) FOR #4 BARS ONE I ASTM A-615 DEFORMED BARS GRADE 60 (fy=60 KSI) FOR #4 BARS AND LARGER ASTM A-706 DEFORMED BARS GRADE 60 (fy=60 KSI) FOR ALL WELDABLE BARS ASTM A-185 SMOOTH BAR (fy=60 KSI) FOR WELDED WIRE FABRIC REINFORCING FOR SLABS ON GRADE SHALL BE 6X6 W1.4XW1.4 WELDED WIRE FABRIC OR FIBER MESH
	UNLESS NOTED OTHERWISE. PROVIDE LAP SPLICES PER THE LAP SPLICE SCHEDULE ON SHEET S6.0. REINFORCING STEEL AT ALL WALLS, SLABS, AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS ELSE CORNER BARS SHALL BE PROVIDED. COVER REQUIREMENTS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
G	COVER REQUIREMENTS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE. CONCRETE CAST AGAINST EARTH ALL BAR SIZES
RIAL OR BY 405) DATED TH	#6 AND LARGER
	#14 AND #16 DARS
	REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SECURED IN PLACE PRIOR TO CONCRETE PLACEMENT. REINFORCING STEEL SHALL NOT BE FIELD BENT EXCEPT AS NOTED IN THE DESIGN DRAWINGS. WELDING OF REINFORCING STEEL SHALL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER OF RECORD EXCEPT AS NOTED ON THE DESIGN DRAWINGS.
DR APPROVAL NGS, NEW GTON BUILDING	03200 - CONCRETE WALL REINFORCING PLACE TWO HORIZONTAL #5 BARS AT EACH FLOOR LEVEL OR TOP OF WALL ELEVATION. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCEMENT AT EACH WALL CORNER AND INTERSECTION. PROVIDE TWO VERTICAL #5 BARS AT EACH WALL CORNER AND INTERSECTION. AT ALL WALL OPENINGS PROVIDE TWO #5 BARS OVER, UNDER, AND AT THE SIDES OF THE OPENINGS. EXTEND THE HORIZONTAL BARS THE LAP SPLICE DISTANCE PAST THE OPENING OR EXTEND AS FAR AS POSSIBLE AND HOOK. PROVIDE ONE #5 BAR BY 4'-0" LONG DIAGONALLY AT EACH CORNER OF THE WALL OPENING. ALL CONCRETE SHALL BE PLACED AND CONSOLIDATED WALLS SHALL BE REINFORCED PER SCHEDULE BELOW U.N.O.:
BY THE LOCAL ED.	WALL THICKNESS HORIZONTAL VERTICAL LOCATION 6" #4 AT 14"OC #5 AT 18"OC CENTERLINE 8" #4 AT 10"OC #5 AT 15"OC CENTERLINE 10" #4 AT 16"OC #5 AT 18"OC EACH FACE
NISE	12" #4 AT 12"OC #5 AT 18"OC EACH FACE EPOXY ALL HORIZONTAL STEEL INTO EXISTING FOUNDATION WITH FOUR INCH EMBEDMENT. RE: NOTES SECTION 08100 FOR EPOXY TYPE.
ED IN SECTION ED AND THAT WITH DESIGN	<b>05000 - STRUCTURAL STEEL</b> DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "AISC 360-10 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS". MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING U.N.O.:
SPEED IS LESS	STRUCTURAL W SHAPE ASTM A-992 Fy = 50 KSI S, M, AND C SHAPES ASTM A-36 Fy = 36 KSI STEEL ANGLES ASTM A-36 Fy = 36 KSI
	PLATE MATERIALASTM A-36Fy = 36 KSISTRUCTURAL PIPEASTM A-53 GRADE BFy = 35 KSISTRUCTURAL HSSASTM A-500 GRADE BFy = 46 KSIANCHOR RODSASTM F1554Fy = 36 KSIWOOD CONNECTION BOLTSASTM A-307 GRADE AWELDING ELECTRODESE7018
AVE BEEN N PROVIDED. WITH DESIGN	ALL WELDING SHALL CONFORM TO THE AWS D1.4 "STRUCTURAL WELDING CODE". ALL WELDING SHALL BE PERFORMED BY A WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO) AND AMERICAN WELDING SOCIETY (AWS) CERTIFIED WELDERS. ALL COMPLETE PENETRATION (CP) WELDS SHALL BE ULTRASONICALLY TESTED. ALL FILLET WELDS SHALL BE VISUALLY INSPECTED RE: S1.1.
SPEED IS	STRUCTURAL STEEL AND CONNECTIONS EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN COMPLIANCE WITH ASTM A-123. ALL FIELD WELDS EXPOSED TO WEATHER SHALL BE COATED WITH BRUSH APPLIED ZINC-RICH PAINT COMPLYING WITH ASTM A-780.
CODES.	ALL STRUCTURAL STEEL TO RECEIVE ONE COAT OF PAINT (PRIME COAT). PROVIDE A MINIMUM FRY-FILM THICKNESS OF ONE MIL. PREPARE SURFACE TO MEET REQUIREMENTS OF SSPC-SP2. TOUCHUPS OF ABRASIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. UNO. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION RELATING TO FINISH PAINT OR OTHER FINISH REQUIREMENTS.
N 01300)	08100 - EPOXY ADHESIVE ANCHORS
ERIAL PER 3E	CONCRETE EPOXY SPECIFIED IN THE DRAWINGS SHALL BE SIMPSON STRONG-TIE SET-XP EPOXY ADHESIVE. ANCHOR ROD, THREADED ROD, OR REINFORCING DIAMETER AND EMBEDMENT PER PLAN. INSTALLATION PER ESR-2508.
FIED BY	08200 - EXPANSION ANCHORS CONCRETE EXPANSION ANCHORS SPECIFIED IN THE DRAWINGS SHALL BE SIMPSON STRONG-TIE STRONG-BOLT WEDGE ANCHOR. ANCHOR DIAMETER AND EMBEDMENT PER PLAN.
AWINGS,	INSTALLATION PER SECTION 4.3 OF ESR-1771. 08300 - SCREW ANCHORS CONCRETE SCREW ANCHORS SPECIFIED IN THE DRAWINGS SHALL BE SIMPSON STRONG THE TITEN HD
	SCREW ANCHORS SPECIFIED IN THE DRAWINGS SHALL BE SIMPSON STRONG-TIE TITEN HD. ANCHOR DIAMETER AND EMBEDMENT PER PLAN. INSTALLATION PER ESR-2713.

	DATE DATE DATE DATE DATE DATE DATE DATE
5       STRUCTURAL DRAWING LIST         SHEET       DESCRIPTION       Sheet Issue Date       Rev Date         S1.01       Structural Notes       09/17/19	JOB #: 1908         1908           JOB #: 1908         INO.           ENG: TRE         INA           ENG: JAA         INA           ENG: JAA         INA           CAD: JAA         INA           ENG: JAA         INA           ENG: JAA         INA           ENG: JAA         INA           ECALE: J4" = 1'-0"         INA           KEY ISSUE DATES:         3/4" = 1'-0"           SD: SD         DO           DD: DD         DD           DD: DD         CD           CD: CD         PERMIT: 09/17/19           OTHER: BD         INA
	<b>Structural Notes</b> Wen Garage 8259 West Mercer Way Mercer Island, WA 98040
	S1.01

# FOUNDATION KEY NOTES

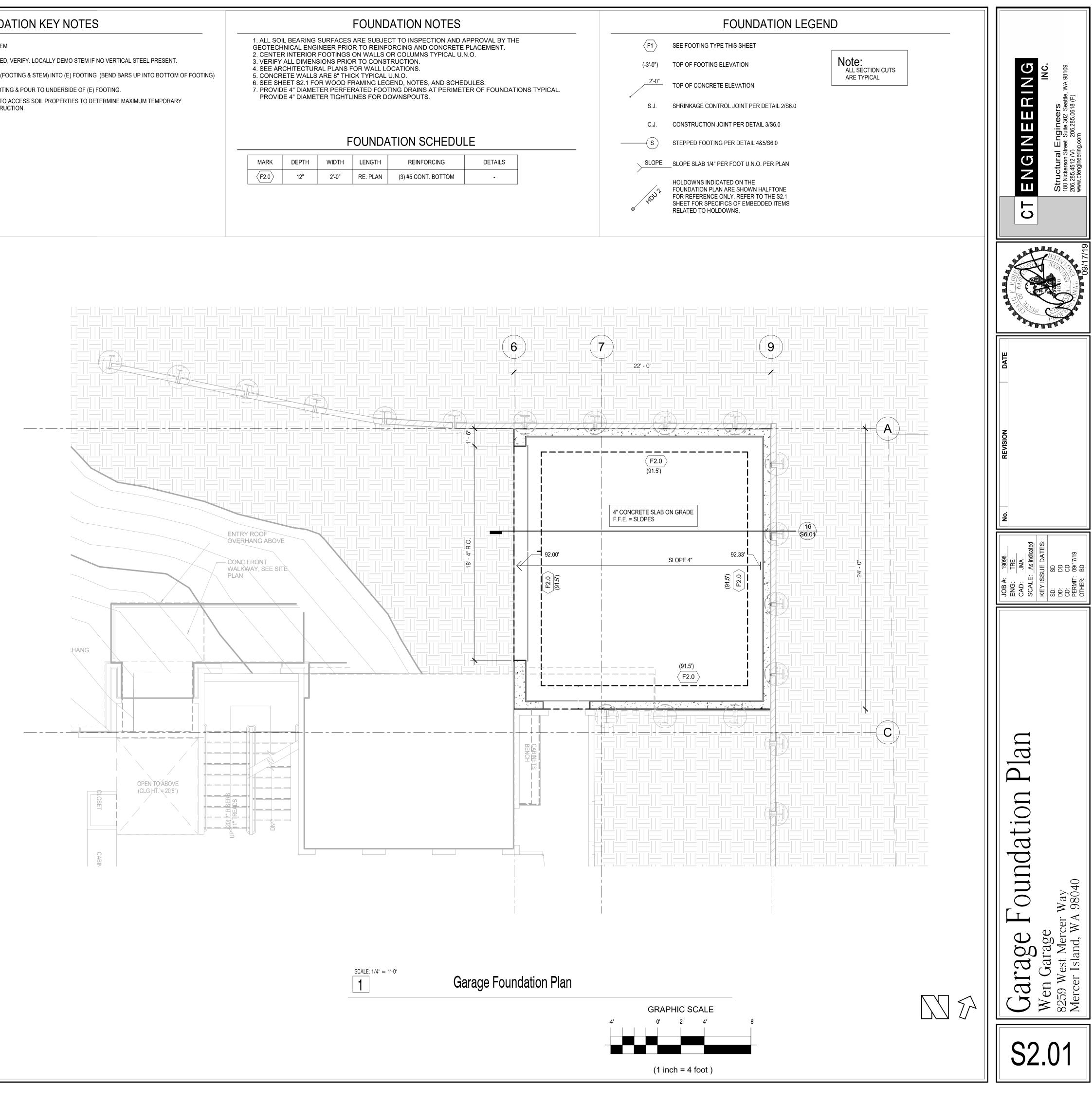
$\supset$	SAW CUT (E) CONCRETE STEM
$\supset$	(E) VERTICAL STEEL ASSUMED, VERIFY
$\supset$	EPOXY HORIZONTAL STEEL (FOOTING &
$\supset$	UNDERMINE BELOW (E) FOOTING & PO
$\supset$	GEOTECHNICAL ENGINEER TO ACCESS SLOPE CUT DURING CONSTRUCTION.

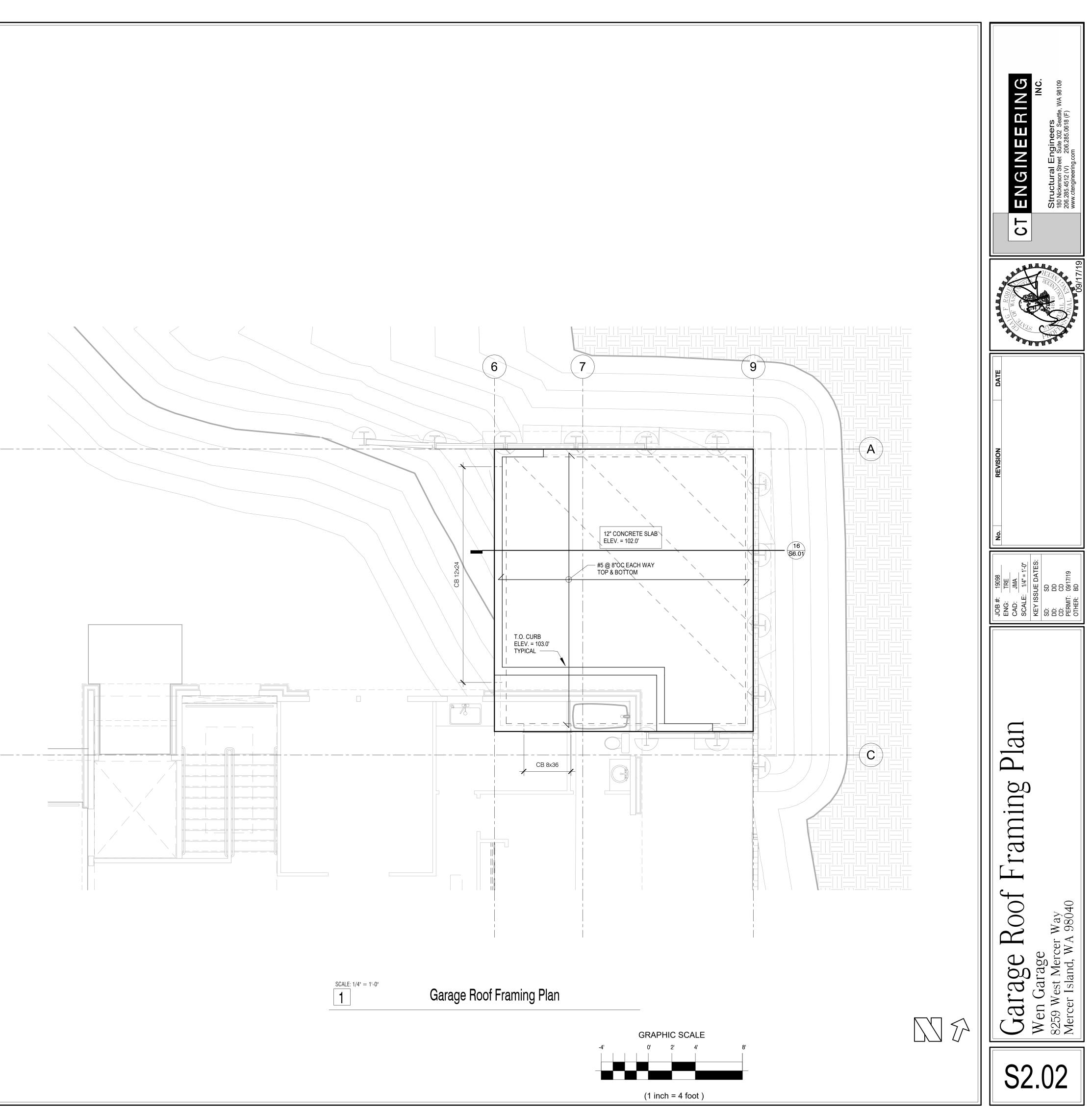
ED, VERIFY. LOCALLY DEMO STEM IF NO VERTICAL STEEL PRESENT.

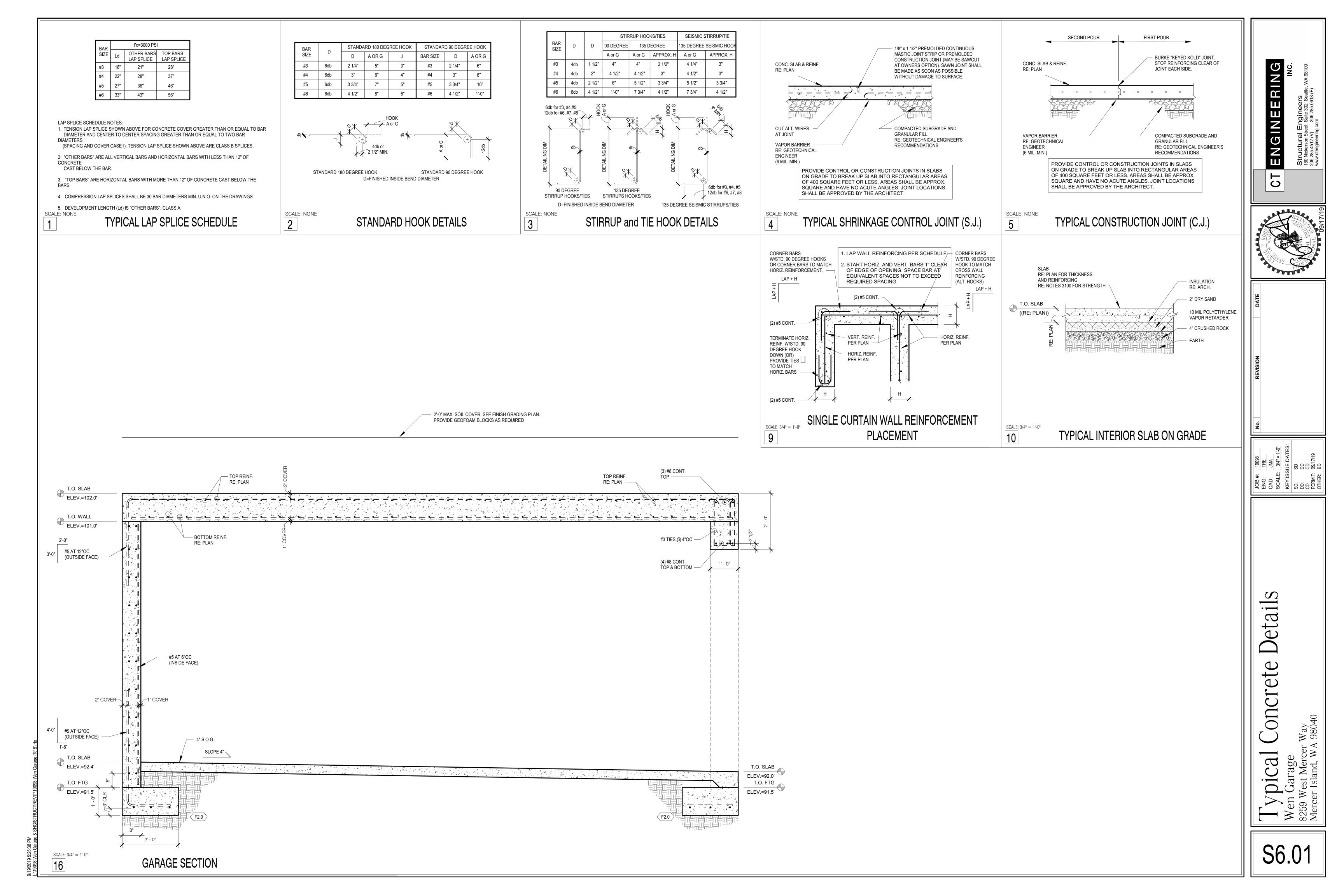
TING & POUR TO UNDERSIDE OF (E) FOOTING.

TO ACCESS SOIL PROPERTIES TO DETERMINE MAXIMUM TEMPORARY

TOUNDATION SCILDULL				
DEPTH	WIDTH	LENGTH	REINFORCING	DETAILS
12"	2'-0"	RE: PLAN	(3) #5 CONT. BOTTOM	-
		DEPTH WIDTH	DEPTH WIDTH LENGTH	DEPTH WIDTH LENGTH REINFORCING







	ABBREVIATIONS
&	AND
@	AT
' ''	FEET (FOOT)
#	INCH (INCHES) POUND(S), NUMBER
=	EQUAL(S)
A.B. ABV.	
ADV. ADD.	ABOVE ADDITIONAL
ADJ.	ADJACENT
ALUM.	
ALT. APPROX.	ALTERNATE APPROXIMATE(LY)
ARCH.	
ASSY.	ASSEMBLY
B. (BTM.)	ВОТТОМ
BEL.	BELOW
BEN B.F.	BOUNDARY EDGE NAILING BRACED FRAME
BLDG.	BUILDING
BLK.(G.)	BLOCK (ING)
BLW. BM.	BELOW BEAM
BMU	BRICK MASONRY UNIT
BN	BOUNDARY NAILING
BNDRY. B.O.	BOUNDARY BOTTOM OF
B.O.E.	BOTTOM OF EXCAVATION
B.O.F.	BOTTOM OF FOOTING
BRDG. BRG.	BRIDGE, BRIDGING BEARING
BTWN.	BETWEEN
_	
C CAMB.	CAMBER CAMBER(ED)
CANT.	CANTILEVER(ED)
CF	CUBIC FOOT
C.I.P. C.J.	CAST IN PLACE CONSTRUCTION JOINT
C.J. CL	CENTER LINE
CLG.	CEILING
CLR.	CLEAR
COL. CONC.	COLUMN CONCRETE
CONN.	
CONST. CONT.	CONSTRUCTION CONTINUOUS
CONT. CTSK.	COUNTERSINK
CTR.	CENTER(ED)
CY CMU	CUBIC YARD CONCRETE MASONRY UNIT
CIVIO	CONCRETE MASONRY UNIT
d	PENNY (NAILS)
DB DBA	DROPPED BEAM DEFORMED BAR ANCHORS
DBL.	DOUBLE
DCW	DEMAND CRITICAL WELD
DEPT. DET.	DEPARTMENT DETAIL
DF	DOUGLAS FIR
DIA. / Ø	DIAMETER
DIAG. DIAPH.	DIAGONAL DIAPHRAGM
DIM.	DIMENSION
DN.	DOWN
D.O. DP.	DITTO (REPEAT) DEEP
D.S.	DRAG STRUT
DWG.	DRAWING(S)
DWL.	DOWELS(S)
(E)	EXISTING
EA.	EACH
E.E. E.F.	EACH END EACH FACE
E.J.	EXPANSION JOINT
EL. ELEV.	ELEVATION ELEVATOR
EMBD.	EMBED(MENT)
EN	EDGE NAIL
ENG. EQ.	ENGINEER EQUAL
EQPT.	EQUIPMENT
E.W.	EACH WAY
EXP. EXST.	EXPANSION EXISTING
EXT.	EXTERIOR
FAB. FB	FABRICATION FLUSH BEAM
FDN.	FOUNDATION
F.F.	FINISH FLOOR
FIN. FLG.	FINISH(ED) FLANGE
FLR.	FLOOR
FN	FIELD (FACE) NAIL
F.O. F.O.C.	FINISHED OPENING FACE OF CONCRETE
F.O.M.	FACE OF MASONRY
F.O.S. F.O.W.	FACE OF STUD FACE OF WALL
F.O.W. FRM.	FACE OF WALL FRAME (FRAMING)
F.S.	FAR SIDE
FT. FRTW	FEET (FOOT) FIRE RETARDANT TREATED WOOD
FRTW FTG.	FOOTING
<u></u>	CALLOS
ga. Galv.	GAUGE GALVANIZE(D)
GB.	GRADE BEAM
GLB	GLUE LAMINATED BEAM
GRD. GWB	GRADE GYPSUM WALLBOARD
GYP.	GYPCRETE
HD	HOLDOWN
HD H.D.G.	HOLDOWN HOT DIPPED GALVANIZED
HGR.	HANGER
Horiz. Hr	HORIZONTAL HEADER
H.S.B.	HIGH STRENGTH BOLT
HT.	HEIGHT

I.D. I.E. I.F. IN. INFO. INT.	ABBREVIATIONS INSIDE DIAMETER INVERT ELEVATION INSIDE FACE INCH(ES) INFORMATION INTERIOR
JST. JT.	JOIST JOINT
К	KIPS (1000 LB.)
LAT. LB. LG. LGTH. LGTH. LGMF. LLH LLV LSH L.W.	LATERAL POUND(S) LAG BOLTS(S) LONG(ITUDINAL) LENGTH LIGHT GAUGE METAL FRAMING LONG LEG HORIZONTAL LONG LEG VERTICAL LONG SLOTTED HOLE(S) LIGHT WEIGHT
MAT. MAX. MBM MECH. M.E.J. MEZZ. MFR. MIN. MISC. MTL.	MATERIAL MAXIMUM MACHINE BOLT METAL BUILDING MANUFACTURER MECHANICAL MASONRY EXPANSION JOINT MEZZANINE MANUFACTURER MINIMUM MISCELLANEOUS METAL
	NON-LOAD BEARING NUMBER NEAR SIDE NOT TO SCALE NORMAL WEIGHT CONCRETE
O.C. O.D. O.F. OPNG. OPP. ORNT. OSB O.W.J.	ON CENTER OUTSIDE DIAMETER OUTSIDE FACE OPPOSITE HAND OPENING OPPOSITE ORIENTATION ORIENTED STRAND BOARD OPEN WEB JOIST
P/C PEN PERP. PL. PL PLMBG.	PARALLEL PRECAST PANEL EDGE NAIL PERPENDICULAR PLATE PROPERTY LINE PLUMBING PLYWOOD POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PRESERVATIVE TREATED POST TENSION(ED)
QTY.	QUANTITY
REINF. REQ. R.F.	RADIUS REFERENCE REINFORCEMENT REQUIRED RIGID FRAME ROUGH OPENING ROUGH SAWN
SCH. SCHED. SCL SHT. SIM. S.J. SKW. S.O.G. SPC. SPEC. SQ. STD. STGR. STIFF. STIR. STIFF. STIR. STIR. STRUC. STRUCT. SUSP. SYMM.	STRUCTURAL COMPOSITE WOOD SHEET SIMILAR SHRINKAGE CONTROL JOINT SKEW(ED) SLAB ON GRADE SPACE(S) (ING) SPECIFICATION(S) SQUARE STANDARD STAGGER STIFFENER(S) STIFFENER(S) STIRRUP(S) STEEL STRUCTURAL
T. T.&B. TEMP. T.&G. THK. THRD. TN T.O.S. T.O.W. TRANSV. TYP.	TOP TOP AND BOTTOM TEMPORARY TONGUE AND GROOVE THICK(NESS) THREADED TOE NAIL TOP OF (STEEL) (SHEATHING) (SLAB) TOP OF WALL TRANSVERSE TYPICAL
U.N.O. U/S	UNLESS NOTED OTHERWISE UNDERSIDE
V. VERT. VIF	VERTICAL VERTICAL VERIFY IN FIELD
W. W/ W/O WD. W.H.S. W.P. W.S. WT. W.W.F.	WIDE (WIDTH) WITH WITHOUT WOOD WELDED HEADED STUDS WORK POINT WELDED STUD WEIGHT WELDED WIRE FABRIC
X-STG	EXTRA STRONG
XX-STG	DOUBLE EXTRA STRONG

YD

YARD

## 00100- CODE REQUIREMENTS ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 2015 INTERNATIO CODE, AS AMENDED BY THE CITY OF MERCER ISLAND. 00101-EASEMENTS ALL EASEMENTS, IF REQUIRED, SHALL BE THE RESPONSIBILITY OF THE OWN 00200- DESIGN LOADS AND CONSIDERATIONS EARTHWORK AND FOUNDATIONS SHALL BE CONSISTENT WITH GEOTECHNICA ENGINEERING RECOMENDATIONS. SEE THE GEOTECHNICAL ENGINEERING R PREPARED BY PANGEO INC. (PROJECT 17-405) DATED FEBRUARY 8,2018. SEE DETAILS ON SS4 FOR SPECIFIC DESIGN LOADING DIAGRAMS. DESIGN PA ARE AS FOLLOWS: ACTIVE EARTH PRESSURE (LEVEL) 45 PCF ACTIVE EARTH PRESSURE (SLOPING)55 PCF PASSIVE EARTH PRESSURE 300 PCF (ALLOWABLE) COEFFICIENT OF FRICTION 0.30 (ALLOWABLE) SEISMIC SURCHARGE 7H UNIFORM

SOIL PROFILE SITE CLASS D THE SHORING SYSTEM IS PERMANENT.

# 00300- UTILITIES AND ADJACENT PROPERTIES

STABILITY AND EROSION PROTECTION OF EXISTING & CUT SLOPES, AND THE OF THE EXCAVATION, SHORING AND OTHER WORK WITH ALL UTILITIES AND A PROPERTIES IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO DRILLIN EXCAVATION.

LOCATE AND DISCONNECT ANY UNDERGROUND POWER, COMMUNICATION, C LINES PRIOR TO DRILLING & EXCAVATION. CONTRACTOR SHALL VERIFY OVER CLEARANCES PRIOR TO MOBILIZATION AND CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE EXACT ELEVATION, LOCATION AND SIZ

UNDERGROUND UTILITIES OR STRUCTURES PRIOR TO SHORING INSTALLATIO SHALL BE NO CLOSER THAN 3 FEET TO ANY UTILITY, UNLESS OTHERWISE SHO

# 00301- DRAINAGE CONTROL

THE CONTRACTOR SHALL TAKE MEASURES TO CONTROL ALL SURFACE WATE FLOW AND FLOWS FROM EXISTING SUBSURFACE DRAINAGE FEARTURES INC PERCHED WATER. IN NO CASE SHALL THE CONTRACTOR ALLOW THE WALL S EXPOSED TO HYDROSTATIC PRESSURES OR ALLOW SURFACE WATER TO FLO EXCAVATION.

# 00400- BASELINE SURVEY AND MONITORING

GRADE CHANGES ARE SIGNIFICANT, BUT THE TIEBACK SYSTEM UTILIZED SHO ANY GROUND MOVEMENTS DURING CONSTRUCTION. HOWEVER, EXISTING S OR IMPROVEMENTS TO BE SAVED THAT ARE NEAR THE CONSTRUCTION ZONE HAVE BASELINE PHYSICAL LOCATION DATA ESTABLISHED PRIOR TO BEGINNI A MINIMUM, OPTICAL SURVEY POINTS (POINTS KNOWN, OR PK'S) SHOULD BE AT THE CORNERS AND MIDPOINT OF THE RESIDENTIAL STRUCTURE. THE SEL MONITORING POINTS SHOULD BE MADE WITH CONCURRENCE OF THE GEOTE ENGINEER.

THE MONITORING PROGRAM SHOULD INCLUDE MEASUREMENT OF CHANGES HORIZONTAL AND VERTICAL DIRECTIONS. THE MONITORING SHOULD BE PER LEAST WEEKLY WHILE ACTIVE WALL CONSTRUCTION IS UNDERWAY. THE MO SHOULD BE BY A LICENSED SURVEYOR, AND THE RESULTS BE PROMPTLY SU THE GEOTECHNICAL ENGINEER FOR REVIEW. THE RESULTS OF THE MONITOR ALLOW THE DESIGN TEAM TO CONFIRM DESIGN PARAMETERS, AND FOR THE TO MAKE ADJUSTMENTS TO MEANS AND METHODS OF CONSTRUCTION, IF NE

# 00401- MONITORING AND QUALITY CONTROL

THE OWNER SHALL PROVIDE MONITORING AND QUALITY CONTROL OF ALL SH INCLUDINGSOLDIER PILE WALLS, BERMS, AND ADJACENT GROUND SYRFACES BUILDINGS OF STRUCTURES AS FOLLOWS:

THE GEOTECHNICAL ENGINEER OF RECORD SHALL PROVIDE FULL TIME OBSI MONITORING OF THE EXCAVATION, SOLDIER PILE INSTALLATION, TIEBACK INS AND VERFICATION AND PROOF TESTING. INSTALLATION INCLUDES DRILLING BACK HOLES AND PLACEMENT OF LEAN MIX AND STRUCTURAL GROUT. A CO ACCURATE RECORD SHALL BE KEPT OF ALL PILE AND TIEBACK DEPTHS, QUA LEAN MIX AND STRUCTURAL GROUT PER PILE AND TIEBACK AND ANY UNUSU CONDITIONS ENCOUNTERED.

A QUALIFIED TESTING AGENCY SHALL PERFORM WELDING INSPECTIONS AND GROUT SAMPLING AND TESTING.

THE CONTRACTOR SHALL PROVIDE TESTING EQUIPMENT THAT HAS BEEN CAL THE PAST 60 DAYS. MEASUREMENTS OF ANCHOR MOVEMENT SHALL BE OBT. EQUIPMENT ACCURATE TO 0.001 INCH.

PRECONSTRUCTION BASELINE SURVEY: A LICENSED SURVEYOR HIRED BY THE OWNER, SHALL ESTABLISH BASELINE I BENCHMARKS AND MONITORING POINTS ON THE GROUND SURFACE AND SETTLEMENT-SENSITIVE STRUCTURES BEHIND THE SHORING WALL ALIGNME EXCAVATION AND INSTALLATION OF THE SHORING SYSTEM. STATIONARY BE SHALL BE SET AT LEAST 40 FEET AWAY FROM THE MONITORING POINTS. MON POINTS ESTABLISHED ALONG THE CURBLINE AND CENTERLINE OF ADJACENT NEED TO BE MONITORED WHEN TOTAL WALL MOVEMENTS REACH 0.5 INCH O REQUEST. THE MINIMUM MONITORING POINT SPACING ALONG THE TOP OF AI WALLS SHALL BE 20 FEET AND AT THE TOP OF EVERY OTHER SOLDIER PILE. SHALL HAVE AN ACCURACY OF 0.01 FEET. A VISUAL AND PHOTGRAPHIC SUR' MADE OF ADJACENT BUILDINGS PRIOR TO CONSTRUCTION.

REPORTS: SURVEY MONITORING RESULTS SHALL BE TRANSMITTED TO THE GEOTECHNI AND GENERAL CONTRACTOR WITHIN 24 HOURS OF EACH SURVEY. THE GEOT ENGINEER SHALL REVIEW SURVEY DATA AND PROVIDE AN EVALUATION OF W PERFORMANCE AND A GRAPHICAL REPRESENTATION OF WALL MOVEMENT V ALONG WITH THE SURVEY DATA TO GENERAL CONTRACTOR, SHORING INSTA SHORING ENGINEER, DPD AND ON AT LEAST A WEEKLY BASIS.

CONSTRUCTION MONITORING: THE GENERAL CONTRACTORS SHALL OBSERVE THE CONDITIONS ABOVE THE A DAILY BASIS FOR SIGNS OF GROUND OR BUILDING MOVEMENTS. THE GEOT SHORING ENGINEER SHALL BE IMMEDIATELY AND DIRECTLY NOTIFIED IF SIGN MOVEMENT SUCH AS: NEW CRACKS IN STRUCTURES, INCREASED SIZE OF OL SEPARATION OF JOINTS IN STRUCTURES, FOUNDATIONS, STREETS OR PAVEL UNPAVED SURFACES ARE OBSERVED.

THE SURVEYOR AND GENERAL CONTRACTOR SHALL NOTIFY THE GEOTECHN ENGINEER SHORING ENGINEER, DPD IMMEDIATELY AND DIRECTLY IF MORE T OF DISPLACEMENT OCCURS. AT THAT TIME THE GEOTECHNICAL ENGINEER ENGINEER SHALL PREPARE A REMEDIAL PLAN. REMEDIAL MEASURES SHALL IMPLEMENTED TO PREVENT DEFLECTIONS FROM EXCEEDING 1.0 INCH.

DRILLLING AND EXCAVATION OPERATIONS SHALL BE IMMMEDIATELY SUSPEN GROUND SUBSIDENCE IS OBSERVED, OR IF ADJACENT STRUCTURES ARE DAM RESULT OF THE DRILLING OR EXCAVATION OPERATION.

SHORING INSTALLATION AND EXCAVATION IN AREAS ADJACENT TO BUILDING THE SURVEYOR AND GENERAL CONTRACTOR SHALL NOTIFY THE GEOTECHN ENGINEER, SHORING ENGINEER AND DPD IMMEDIATELY AND DIRECTLY IF THI DAMAGE THRESHOLD IS APPROACHED. SHORING INSTALLATION AND EXCAV NOT CONTINUE UNTIL REMEDIAL ACTION IS TAKEN TO ENSURE THAT 0.5 INCH EXCEEDED.

# 00405 - INSPECTION

CONTINUOUS OBSERVATION BY THE GEOTECHNICAL ENGINEER IS REQUIRED FOR THE SHORING SYSTEM INSTALLATION INCLUDING DRILLING OF PILE HOLES, INSTALLATION OF SOLDIER PILES AND LEAN MIX CONCRETE. A COMPLETE & ACCURATE RECORD SHALL KEPT OF ALL PILE DEPTHS, QUANTITY OF LEAN MIX PER PILE, AND ANY UNUSUAL CONDITIONS ENCOUNTERED.

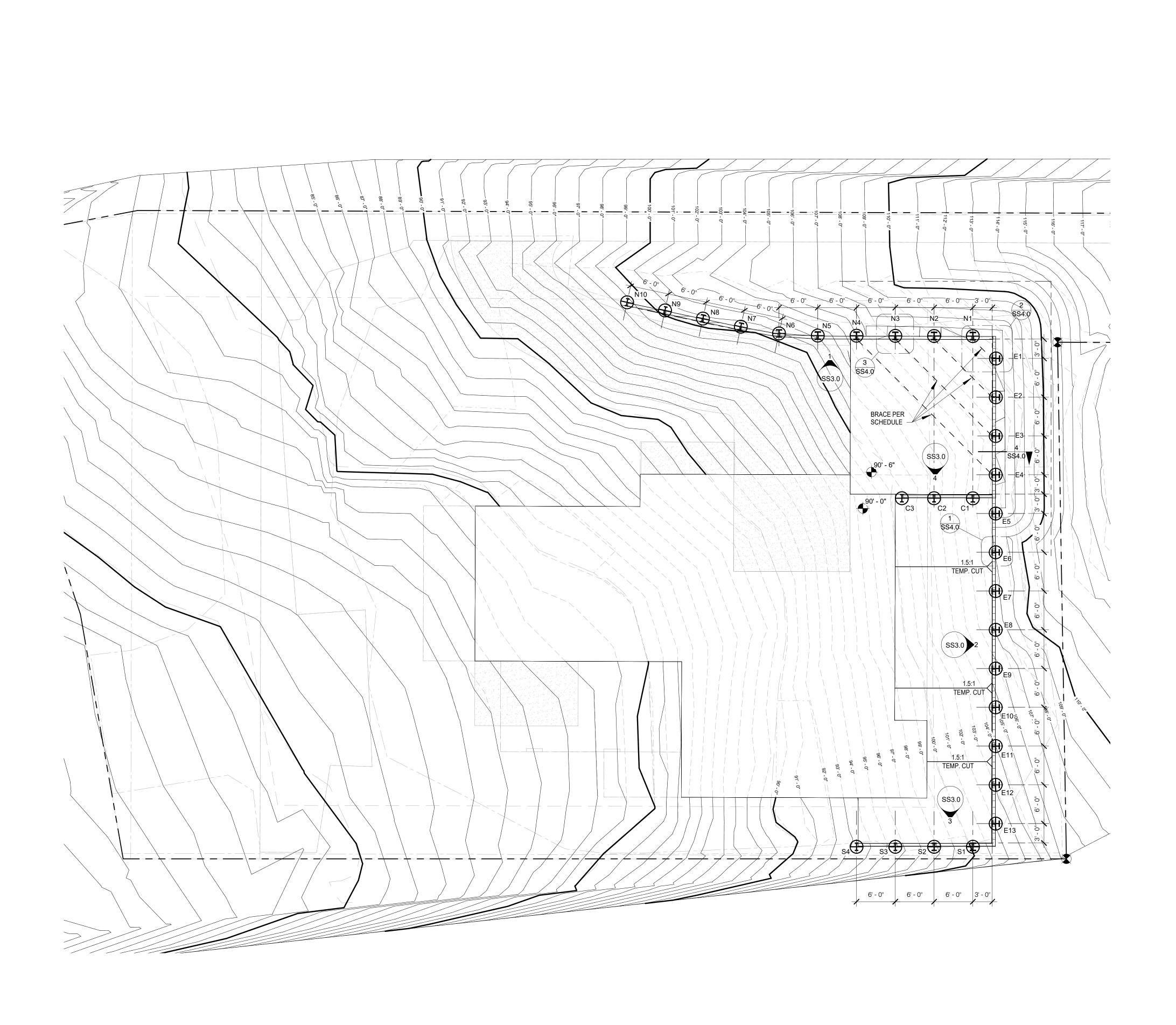
SPECIAL INSPECTION SHALL BE PERFORMED BY A QUALIFIED SPECIAL INSPECTOR. SPECIAL INSPECTION IS REQUIRED FOR SHORING WELDING AND CORROSION PROTECTION. TESTING OF LEAN MIX CONCRETE IS NOT REQUIRED.

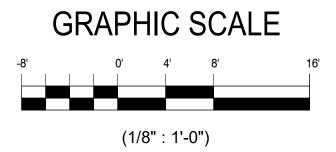
	00600- MATERIALS
ONAL BUILDING	LEAN MIX CONCRETE 1 1/2 SACK MIX (ABOVE BOE)
	STRUCTURAL 3000PSI MIX IN TOE OF HOLE (BELOW BOE) CONCRETE
IER.	STRUCTURAL STEEL WF SECTIONS ASTM A992 Fy = 50 KSI
	CHANNELSASTM A36 Fy = 36 KSISTEEL ANGLESASTM A36 Fy = 36 KSI
AL REPORT	PLATE MATERIAL ASTM A36 Fy = 36 KSI
	STRUCTURAL PIPEASTM A53 Fy = 35 KSI GRADE BSTRUCTURAL BOLTSASTM A 325-N
ARAMETERS	WELDED HEADED STUDS (WHS) ASTM A -108 WELDING ELECTRODES E70-XX WITH CHARPY V-NOTCH
	TOUGHNESS OF AT LEAST 20 FT-LBS AT 0 DEGREES F.
	TIMBER LAGGING P.T. HF NO. 2 4X6 @ TOP 6.5ft OF WEST WALL AND AT WEST AND EAST
	ELEVATIONS P.T. HF NO. 1 6X12 BELOW 6.5ft AT NORTH ELEVATION
	TIMBER LAGGING SHALL BE PRESERVATIVE TREATED WITH WATER BORNE PRESERVATIVES IN ACCORDANCE WITH AWPA U1 (A OR F) TO A MINIMUM RETENTION OF 0.4 LBS/CU. FT. (0.21
	LBS/CU. FT. FOR CA-B) ANY SAWN ENDS OF SUCH TREATED LAGGING SHALL BE FIELD TREATED WITH TWO BRUSHED COATS OF THE SAME PRESERVATIVE. LAGGING SHALL BE GAPPED PER THE GEOTECHNICAL ENGINEER TO PERMIT SEEPAGE.
ADJACENT NG AND	GAFFED FER THE GEOTECHNICAL ENGINEER TO FERMIT SEEFAGE.
GAS AND WATER	DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE 14TH EDITION OF THE AISC "STEEL CONSTRUCTION MANUAL AND THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", AISC 360-10.
RHEAD	
ze of All On. Tiebbacks Iown.	<b>00601- CORROSION PROTECTION1</b> THE PILES AND TIEBACK ANCHORS FOR THIS PROJECT ARE PERMANENT AND DO REQUIRE
iown.	CORROSION PROTECTION. USE ZINC CLAD II ETHYL SILICATE INORGANIC ZINC-RICH COATING TO 5.0 MIL THICKNESS ON ALL SOLDIER PILES. COATING SHALL BE APPLIED TO EACH PILE FOR THE "UPSTAND HEIGHT" PLUS 2FT. TIEBACKS SHALL BE DOUBLE CORROSION
	PROTECTED PER THE ATTACHED DETAILS. 00602- WELDING
ER RUNOFF	WELDING SHALL CONFORM TO AWS D1-04 "STRUCTURAL WELDING CODE." WELDING
CLUDING SYSTEM TO BE OW INTO THE	ELECTRODES SHALL BE E70XX. ALL WELDING SHALL BE PERFORMED BY WABO AND AWS CERTIFIED WELDERS. ALL COMPLETE PENETRATION WELDS (CP) SHALL BE ULTRASONIC
	TESTED. ALL SINGLE PASS FILLET WELDS SHALL BE VISUALLY INSPECTED. MINIMUM WELD SIZE IS 1/4" CONTINUOUS FILLET.
	00603- SUBMITTALS
OULD MINIMIZE STRUCTURES IE SHOULD	SUBMITTALS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED FOR REVIEW AND
ING WORK. AS ESTABLISHED	APPROVAL PRIOR TO FABRICATION AND INSTALLATION; 1. CONSTRUCTION SEQUENCE NARRATIVE & DESCRIPTION INCLUDING EQUIPMENT LIST
LECTION OF ECHNICAL	AND KEY PERSONNEL.
S IN BOTH THE	<ol> <li>LEAN CONCRETE MIX &amp; STRUCTURAL CONCRETE MIX DESIGN</li> <li>CERTIFIED STEEL MILL REPORTS</li> </ol>
RFORMED AT DNITORING JBMITTED TO	<ol> <li>STRUCTURAL GROUT MIX DESIGN FOR TIEBACKS AS NEEDED</li> <li>STRUCTURAL STEEL AND EMBEDDED ITEMS</li> </ol>
ORING WILL	
ECESSARY.	<b>00604- EXCAVATION</b> THE DISPOSAL SITE FOR EXCAVATION SPOILS, INCLUDING FACILITY NAME AND ADDRESS SHALL
HORING WALLS	BE PROVIDED TO THE BUILDING DEPARTMENT SITE DEVELOPMENT INSPECTOR AT THE PRECONSTRUCTION MEETING.
S AND	ANY VOIDS BETWEEN THE FACE OF THE EXCAVATION AND THE LAGGING SHALL BE FILLED
ERVATION ISTALLATION, G OF PILE & TIE	IMMEDIATELY WITH AN PERMEABLE, FREE DRAINING MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER. THIS SHALL INCLUDE CDF OR LEAN CONCRETE GROUT BEHIND THE UPPER TWO-THIRDS OF THE CUT FACE OF THE SHORING SYSTEM IF APPROVED BY THE
OMPLETE AND ANTITIES OF	GEOTECHNICAL ENGINEER. NO EXCAVATION FOR A LOWER LIFT SHALL PROCEED UNTIL THE INSTALLATION OF THE LIFT ABOVE IS COMPLETED, INCLUDING BACKFILLING BEHIND THE
JAL	LAGGING.
O STRUCTRAL	THE CONTRACTOR SHALL LIMIT THE OPEN FACE OF THE EXCAVATION TO 4 FEET VERTICAL, UNLESS OTHERWISE APPROVED BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL EXCAVATE THE WALL FACE AND INSTALL THE TIMBER LAGGING IN SUCH A MANNER AS TO
ALIBRATED IN	MAINTAIN A SAFE WORK AREA AND AVOID EXCESSIVE SLOUGHING, CAVING OR OVERBREAK. THE CONTRACTOR SHALL RESPONSIBLE FOR THE MEANS AND METHODS USED FOR
	TEMPORARY FACE STABILITY AND MEANS TO CONTROL EXCESSIVE OVERBREAK, AS APPROVED BY THE GEOTECHNICAL ENGINEER. EXCAVATION SHALL PROCEED TO A BOTTOM OF EXCAVATION (BOE) DEPTH NO GREATER THAN SHOWN ON THE PLANS.
READINGS OF	REMOVE LEAN MIX FROM THE PILE TO ALLOW PLACEMENT OF WOOD LAGGING. CARE BY THE
ENT PRIOR TO ENCHMARKS NITORING	EXCAVATOR SHALL BE TAKEN TO PREVENT EXCESSIVE POUNDING OR SHAKING OF THE SHORING WALL.
T ROADWAYS DR AT SDOT	ANY VOIDS BETWEEN THE FACE OF THE EXCAVATION AND THE LAGGING SHALL BE FILLED WITH AN APPROVED PERMEABLE, FREE DRAINING MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER.
LL SOIL NAIL THE SURVEY RVEY SHALL BE	GEOTECHNICAL ENGINEER. GROUNDWATER: THE GEOTECHNICAL REPORT INDICATES THAT THE GROUNDWATER TABLEN IS UNLIKELY TO BE
	ENCOUNTERED ABOVE THE BOTTOM OF EXCAVATION ELEVATION - LOCAL PERCHED GROUNDWATER MAY BE ENCOUNTERED. REFER TO THE GEOTECHNICAL REPORT.
IICAL ENGINEER	00605 - SLOPE PROTECTION
VALL VALL /ERSUS TIME	THE CONTRACTOR SHALL PROTECT CUT SLOPES WITH PLASTIC IF CONSTRUCTION OCCURS DURING WET WEATHER. PLASTIC SHEETING SHALL BE OVERLAPPED AT LEAST 12 INCHES.
ALLER,	SURFACE DRAINAGE AROUND THE EXCAVATION SHALL BE CONTROLLED BY THE CONTRACTOR TO PREVENT WATER FROM FLOWING INTO THE EXCAVATION. CUT SLOPES
E SHORING ON	SHALL BE EXCAVATED TO INTERSECT THE BACKSIDE OF THE DRILLED HOLE. CLEAR PLASTIC SHALL HAVE A MINIMUM THICKNESS OF 6 MIL AND SHALL MEET THE
TECHNICAL, NS OF LD CRACKS OR	REQUIREMENTS OF WSDOT / APWA SECTION 9-14.5.
D AND	CONTRACTOR SHALL MONITOR SLOPES FOR ANY SIGNS OF DISTRESS AND TAKE CORRECTIVE ACTIONS AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
IICAL THAN 0.5 INCH	
AND SHORING _ BE	
NDED IF MAGED AS A	
GS: NCAL	
IE 0.5 INCH /ATION SHALL	
H IS NOT	

# 00200- DESIGN LOADS AND CONSIDERATIONS

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DOZOO- DESIGN LOADS AND CONSIDERATIONS EARTHWORK AND FOUNDATIONS SHALL BE CONSISTENT WITH GEOTECHNICAL ENGINEERING RECOMENDATIONS. SEE THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY PANGEO INC. (PROJECT 17-405) DATED FEBRUARY 8,2018. SEE DETAILS ON SS4 FOR SPECIFIC DESIGN LOADING DIAGRAMS. DESIGN PARAMETERS ARE AS FOLLOWS: ACTIVE EARTH PRESSURE (LEVEL) 45 PCF ACTIVE EARTH PRESSURE (LEVEL) 45 PCF ACTIVE EARTH PRESSURE (SLOPING)55 PCF PASSIVE P		19098 TRE JMA IE DATES: IE DATES: IE DATES:
	OP990 ADDITIONAL CITY COMMENTS         GRADING       NOTE THAT NO GRADING SHALL BE PERFORMED BETWEEM OCTOBER         SEASON       Sitst, AND APRIL 1st.	PERMIT: 00
	Structural Drawing List (Shoring)         SHEET       DESCRIPTION       Issued       Rev       Rev Date         SS1.0       Shoring Notes       09/17/19	Shoring Notes Wen Residence 8529 West Mercer Way Mercer Island, WA

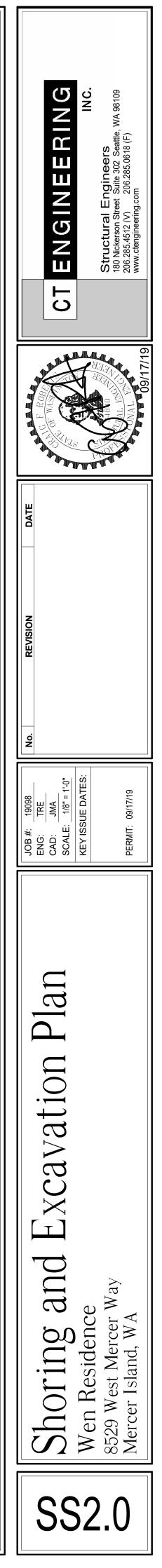
SS1.0



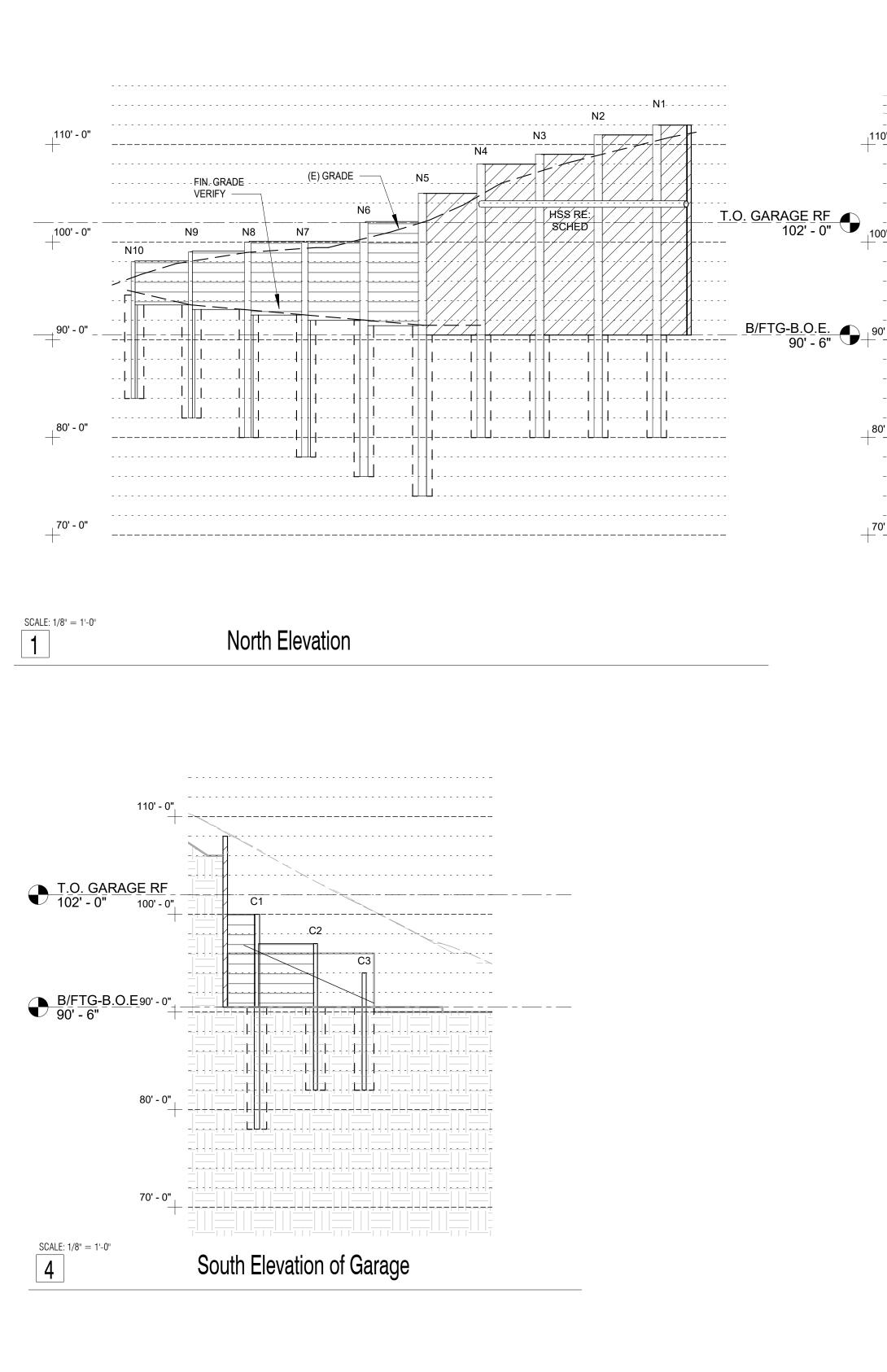


SCALE: 1/8'' = 1'-0''

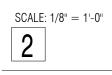
L1 Shoring Plan



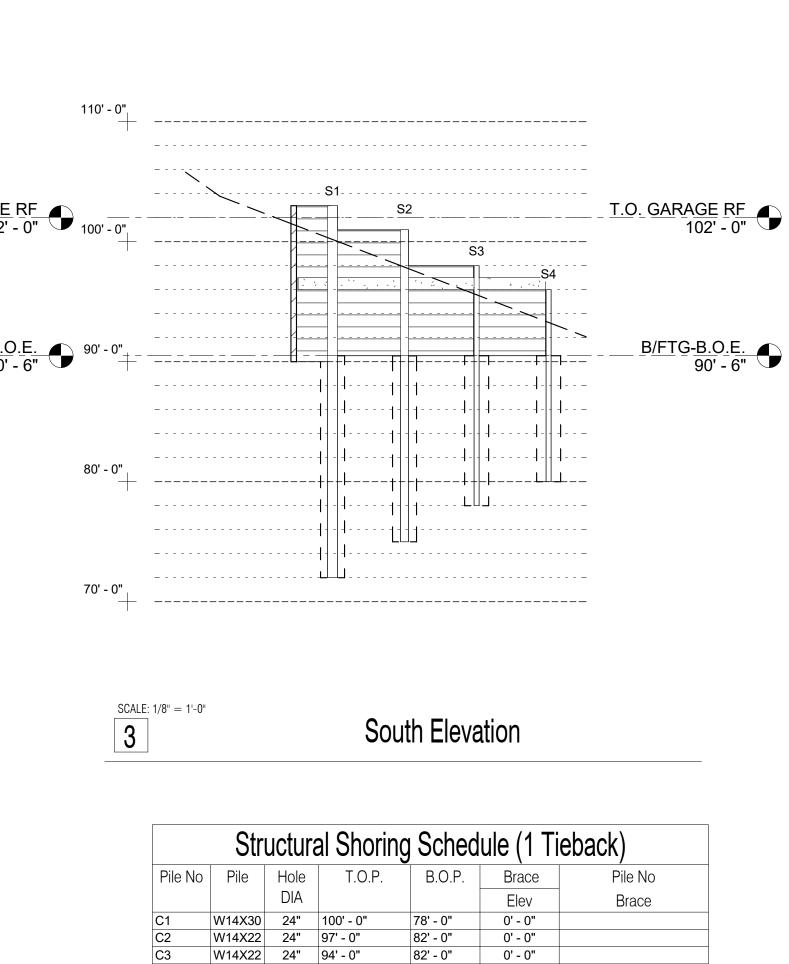


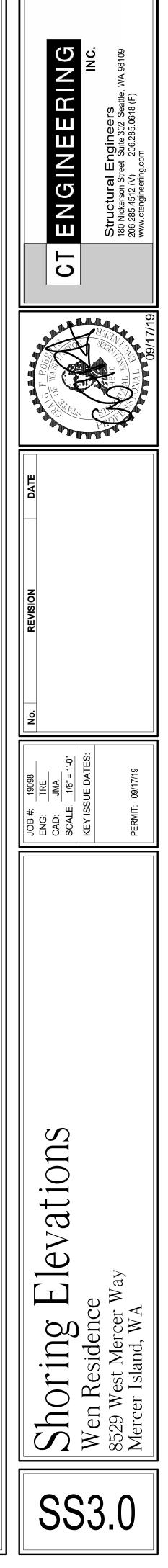


		E2 E3				- FIN. GRADE A - FACE OF PILE	T	, TÉMF	P. GRADE AT	TÓÉ			
110' - 0"			E4	E5	E6	E7	E8		E10 — —	(E) GRA TO REN	DE BEHIND AIN	PILE	
100' - 0"		H\$S RE: SCHED								E11	E12	E13	T.O. GARAGI
			· · · · · · · · · · · · · · · · · · ·										
90' - 0"													B/FTG-B. 90
• • • • • • • • • • • • • • • • • • •	- 6"	· · · ŀ · · ŀ · · · · · · ŀ · · ŀ · · · · ŀ · · ŀ · · · ·	· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·		-   -       -   -			90' - 0"
80' - 0"	<u>-</u>	· · ·  ·   ·   · · · · · · ·   ·   ·	-  -	·				·			-r r - <b></b>		
				· · · · · · · · · · · · · · · · · · ·				·					
70' - 0"													



East Elevation





80' - 0 104' - 0" " DIA. SCHED 80 HSS 6" DIA. SCHED 80 104' - 0" 104' - 0" HSS 6" DIA. SCHED 80 80' - 0" 104' - 0" HSS 8" DIA. SCHED 80 80' - 0" 108' - 0 73' - 0" 0' - 0" W14X61 24" 108' - 0" 73' - 0" 0' - 0" 73' - 0" W14X61 24" 108' - 0" 0' - 0" E8 W14X61 24" 108' - 0" 73' - 0" 0' - 0" 73' - 0" E9 W14X61 24" 107' - 0" 0' - 0" 73' - 0" E10 W14X61 24" 106' - 0" 0' - 0" W14X61 24" 105' - 0" 73' - 0" 0' - 0" E11 73' - 0" 0' - 0" E12 W14X61 24" 104' - 0" W14X61 24" 104' - 0" 73' - 0" 0' - 0" E13 W14X82 24" 112' - 0" 80' - 0" N1 104' - 0" HSS 6" DIA. SCHED 80 N2 W14X82 24" 111' - 0" 80' - 0" 104' - 0" HSS 6" DIA. SCHED 80 W14X82 24" 109' - 0" 80' - 0" 104' - 0" HSS 6" DIA. SCHED 80 N3 W14X82 24" 108' - 0" 80' - 0" 104' - 0" HSS 8" DIA. SCHED 80 N4 N5 W14X82 24" 105' - 0" 74' - 0" 0' - 0" N6 W14X61 24" 102' - 0" 76' - 0" 0' - 0" N7 W14X43 24" 100' - 0" 78' - 0" 0' - 0" N8 W14X43 24" 100' - 0" 80' - 0" 0' - 0" W14X22 24" 99' - 0" 82' - 0" 0' - 0" N9 W14X22 24" 98' - 0" 84' - 0" 0' - 0" N10 72' - 0" 0' - 0" W14X82 24" 103' - 0" W14X43 24" 101' - 0" 75' - 0" 0' - 0" S2 S3 W14X22 24" 98' - 0" 78' - 0" 0' - 0"

W14X22 24" 96' - 0" 80' - 0" 0' - 0"

S4

	LAGGING LAGGING UNDERG TYP	NOTE: AT THIS CONDITION BUTT LAGGING BOARDS TIGHT AGAINST ADJACENT STEEL PILES AT CORNER. BACKFILL VOIDS AS EXCAVATION PROCEEDS DOWN WITH FREE DRAINING MATERIAL PER GEOTECH. ALTERNATE LAGGING BOARDS TO PROVIDE "LOG CABIN" CORNER L 4X4X1/2" W/(2) 20d NAILS EACH BOARD (BEND & CLINCH) 2" MIN. 2" MIN. PILE PER PLAN & ELEVATION
SCALE: 3/4" = 1'-0"	TYPICAL PILE DETAIL	SCALE: 3/4" = 1'-0" TYPICAL BUTTED CORNER DE

