

GENERAL NOTES

1. CODE COMPLIANCE: ALL WORK SHALL COMPLY WITH THE 2018 IRC, 2018 IMC, 2019 IFGC, 2019 F.C.C. 2019 IFC, 2019 NEC, 2009 IBC, 2018 INTERNATIONAL ENERGY CONSERVATION CODE WITH WASHINGTON STATE AMENDMENTS, 2009 ICC A117.1, AND WITH ALL LOCAL CODES AND ORDINANCES.

ENERGY NOTES

Table with columns: CLIMATIC ZONE, THERMAL STANDARDS FOR OPENINGS, CODE, SPACE HEAT TYPE, INSULATION VALUES, WALLS, ATTICS/CEILINGS, FLOORS (OVER UNHEATED SPACES), SLAB-ON-GRADE.

PER WSEC R401.3, A CERTIFICATE IS REQUIRED TO BE POSTED WITHIN 3 FT OF THE ELECTRICAL PANEL. IT MUST INCLUDE THE FOLLOWING: PREDOMINANT R-VALUES, U-VALUES OF FENESTRATION, RESULTS FROM DUCT SYSTEM AND BUILDING ENVELOPE AIR LEAKAGE TESTING, AND EFFICIENCIES OF HEATING/COOLING/WATER HEATING EQUIPMENT.

AIR INFILTRATION: MANUFACTURED DOORS/WINDOWS: CONFORM TO SECTION R402.4.3 OF THE WASHINGTON STATE ENERGY CODE. EXTERIOR JOINTS/OPENINGS: SEAL, CAULK, GASKET OR WEATHERSTRIP TO LIMIT AIR LEAKAGE AT EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES.

WHOLE HOUSE VENTILATION

a. WHOLE HOUSE VENTILATION SHALL BE PROVIDED BY ERV/HRV W/ INTEGRAL FANS, PROVIDING MIN. 62 CFM RUNNING CONTINUOUSLY PER 2018 IRC TABLE M1505.4.2 (1)(2). FAN SHALL BE LESS THAN 35 WATT PER CFM AND RUN CONTINUOUSLY AND HAVE A SONE RATING OF LESS THAN 1.0. VENTILATION SHALL BE ABLE TO OPERATE INDEPENDENTLY OF HEATING SYSTEM.

Table with columns: BEDROOMS, HEATED SQUARE FOOTAGE, CFM @ 0.01(3173 SF) + 7.5(3+1 BEDROOMS), AIRFLOW (CFM).

PROJECT DATA

PROJECT ADDRESS: 2423 60TH AVE SE MERCER ISLAND 98040. PROPERTY TAX ID NUMBER: 409950-0035. SCOPE OF WORK: CONSTRUCTION OF NEW TWO-STORY SINGLE FAMILY RESIDENCE WITH ATTACHED GARAGE.

PROJECT TEAM

OWNER: MARY SMERSH 7930 SE 34TH SE #312 MERCER ISLAND, WA 98040. CONTRACTOR: SMERSH CONSTRUCTION PO BOX 1246 MERCER ISLAND, WA 98040.

LEGAL DESCRIPTION

LAKE VIEW PLACE EAST SEATTLE LOT A OF MERCER ISLAND SHORT PLAT NO M188-08-18 RECORDING NO 8911229007 SD SHORT PLAT DAF - LOTS 7 & 16 AND THE NORTH 7.5 FT OF LOTS 8 AND 15.

DUTY OF COOPERATION

RELEASE AND ACCEPTANCE OF THESE DOCUMENTS INDICATES COOPERATION AMONG THE OWNER, CONTRACTOR, AND STURMAN ARCHITECTS. ANY ERRORS, OMISSIONS, OR DISCREPANCIES DISCOVERED IN THE USE OF THESE DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO STURMAN ARCHITECTS.

SHEET INDEX

- A1.0 COVER SHEET - GENERAL & ENERGY NOTES, LEGAL, PROJECT DATA, CUT-FILL, CALC. INDEX, SITE PLAN. C-1 TESS PLAN. C-2 DRAINAGE PLAN. C-3 CIVIL DETAILS.

TREE PROTECTION

A TREE PROTECTION INSPECTION IS REQUIRED BEFORE START OF WORK.

NOXIOUS WEEDS

DEVELOPMENT PROPOSALS FOR A NEW SINGLE-FAMILY HOME SHALL REMOVE JAPANESE KNOTWEED (POLYGONUM CUSPIDATUM) AND REGULATED CLASS A, REGULATED CLASS B, AND REGULATED CLASS C WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS WEED LIST.

LOT COVERAGE & HARDSCAPE

Table with columns: LOT COVERAGE, GROSS LOT S.F., NET LOT S.F., EXISTING DRIVEWAY, MAIN ROOF STRUCT, DRIVES/PARKING, TOTAL LOT COVERAGE, % LOT COVERAGE.

Table with columns: HARDSCAPE, GROSS LOT S.F., NET LOT S.F., (E) ROCKERIES, RETAINING WALLS, FRONT WALK, WOOD DECK, TOTAL HARDSCAPE, % HARDSCAPE.

BUILDING AREA

Table with columns: MAIN FLOOR, UPPER FLOOR, HEATED SUB-TOTAL, GARAGE/WORKSHOP, GRAND TOTAL, UNHEATED DECKS.

2018 WSEC CREDITS

Table with columns: OPTION, CREDITS, DESCRIPTION. Includes items like HEAT PUMP EFFICIENCY, VERTICAL FENESTRATION, AIR LEAKAGE, AIR SOURCE, HVAC EQUIP., ENERGY STAR RATED GAS OR PROPANE WATER HEATER.

GROSS FLOOR AREA

Table with columns: MAIN FLOOR, SECOND FLOOR, GARAGE, GROSS FLOOR AREA, ALLOWED MAX. % GFA COVERAGE, ALLOWED GROSS FLOOR AREA, 12" CEILING OF LIVING ROOM, 12" CEILING OF REC ROOM, COVERED DECK, TOTAL GFA COVERAGE, PROPOSED % GFA COVERAGE.

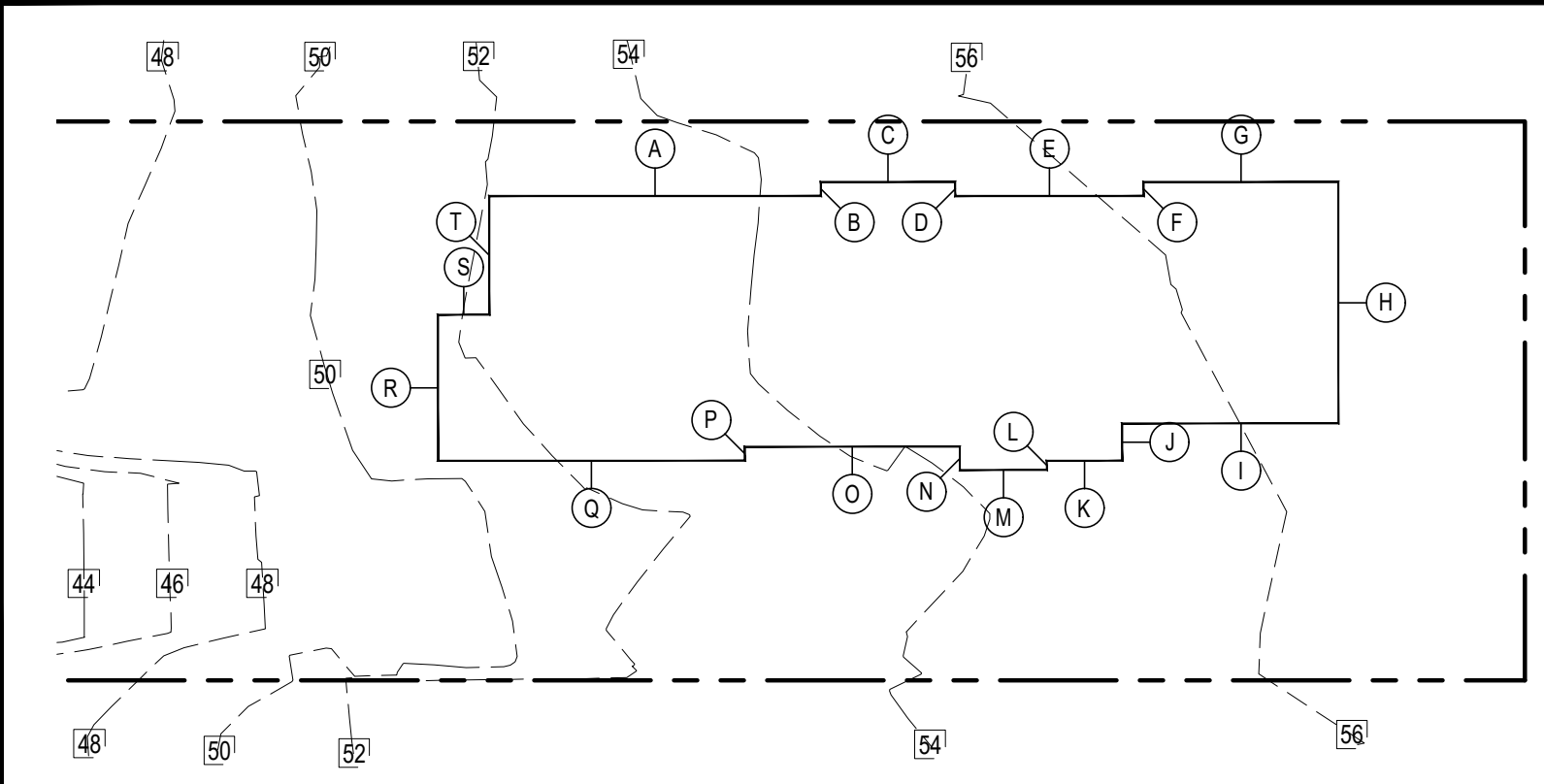
VICINITY MAP



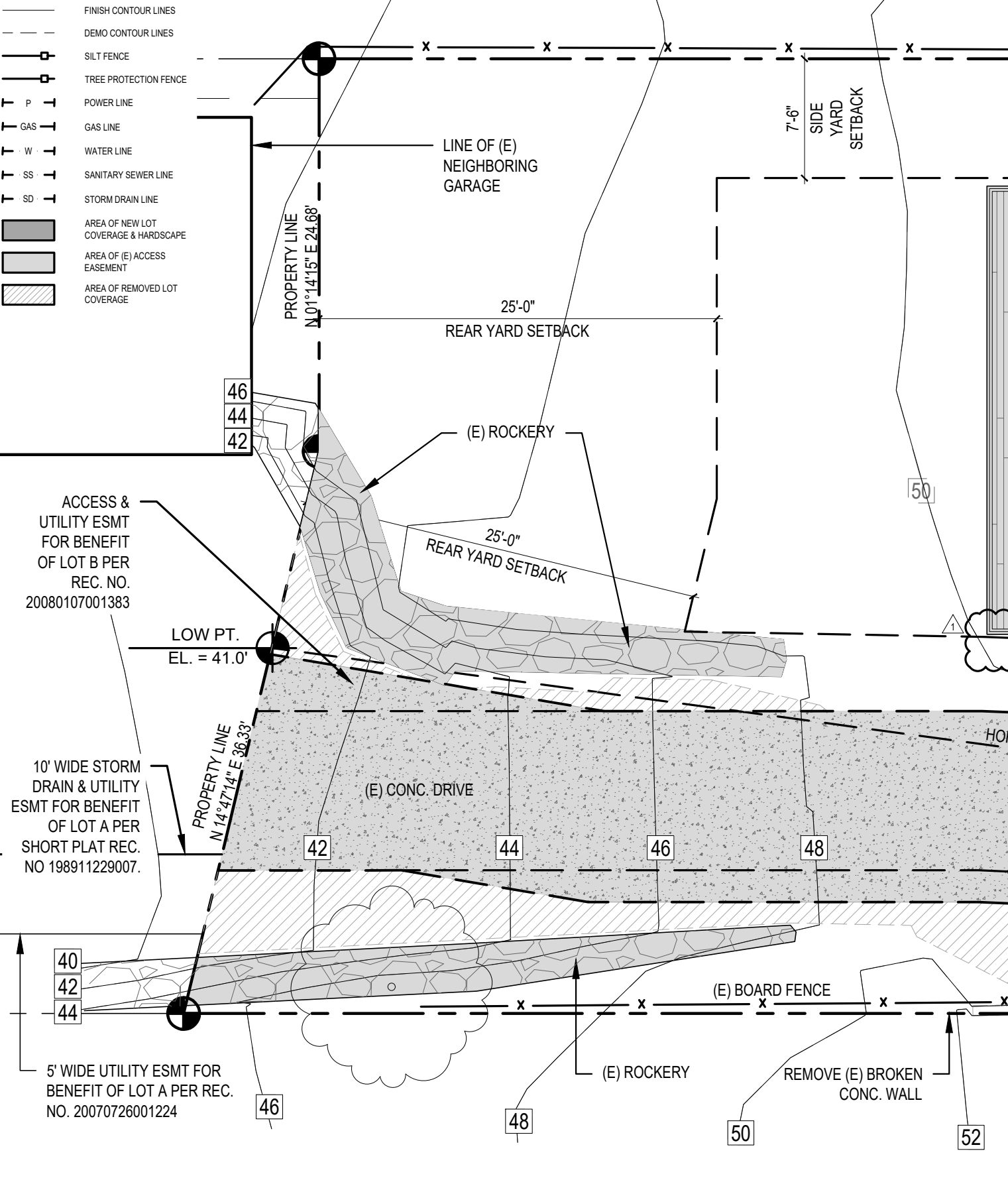
3D IMAGE



ABE KEY PLAN



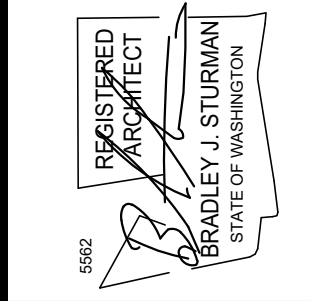
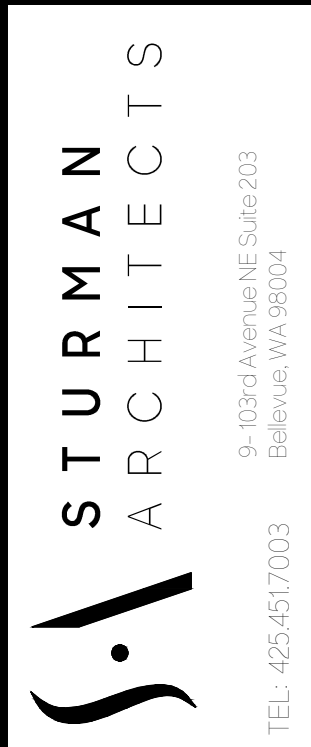
LEGEND



SITE PLAN SCALE: 1/8" = 1'-0"

AVERAGE BUILDING ELEV.

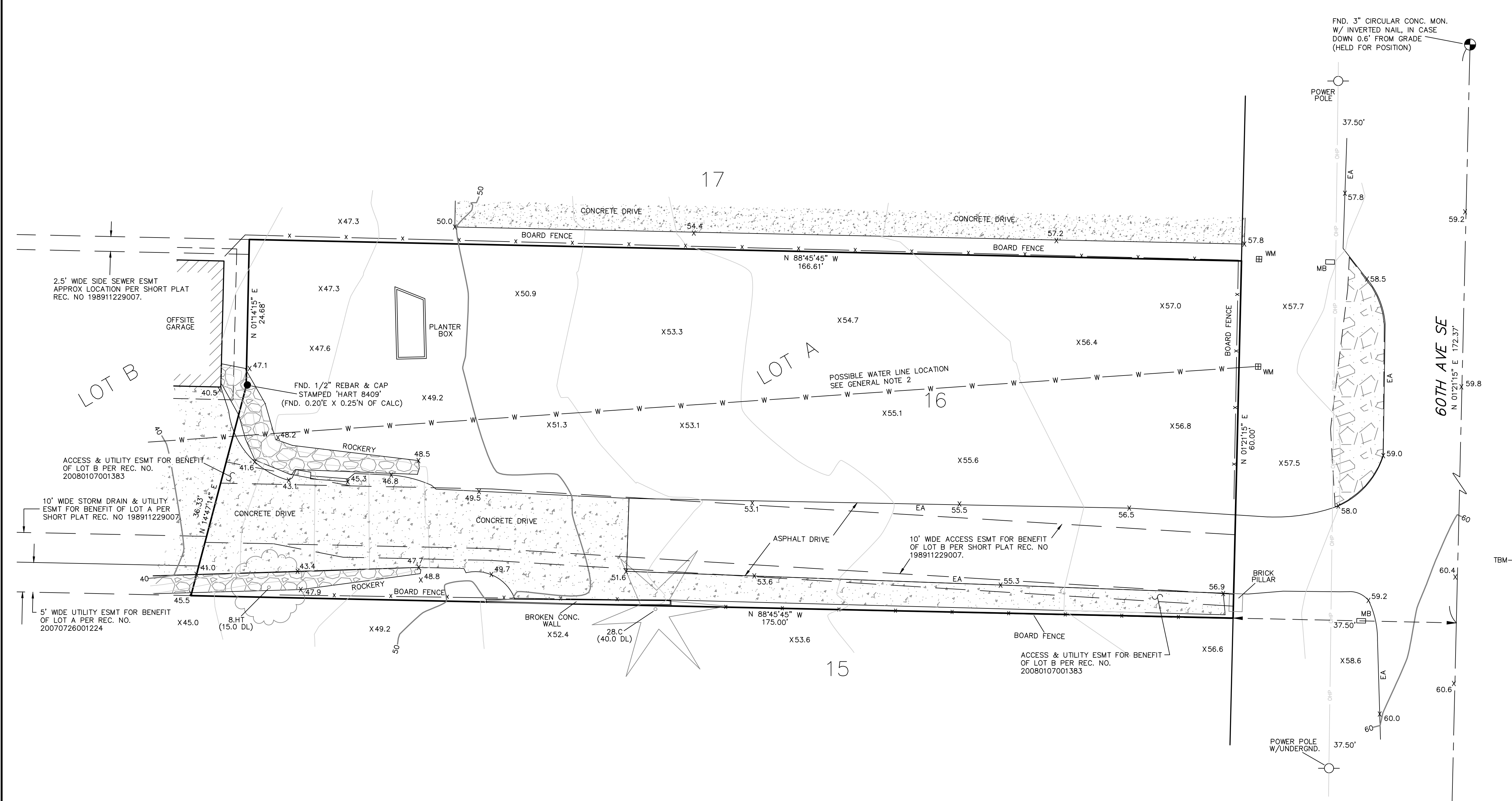
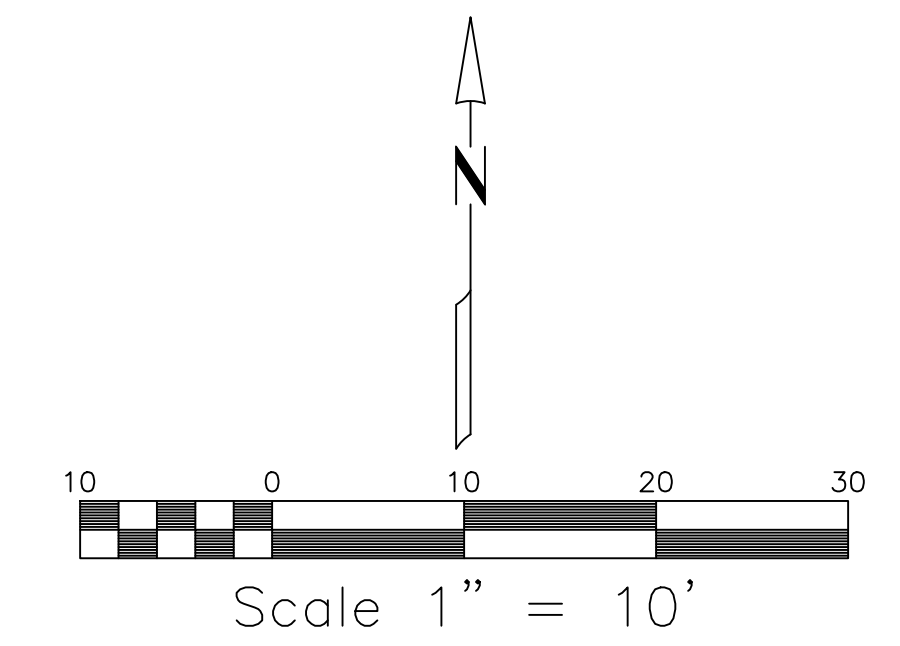
Table with columns: Wall Length, Elevation Pt., Wall Length X Elev. Pt. Lists average building elevations for various wall sections A through T.



M. SMERSH RESIDENCE PERMIT SET 2423 60TH AVE SE MERCER ISLAND, WA 98040

GENERAL NOTES SITE PLAN

REVISIONS: 2023-8-21 CORRECTIONS #1. DRAWN BY: KE. CHECKED BY: BJS. SHEET: A1.0. PERMIT SET. 08/21/23. PLOT DATE: 8/21/2023.



- MERIDIAN**
ASSUMED- BASIS OF BEARING ROAD CENTERLINE 60TH AVE SE
- LEGEND:**
- FOUND MONUMENT AS DESCRIBED ON MAP
 - FOUND EXISTING PROP. COR. AS SHOWN ON MAP
 - ▲ SET TEMPORARY BENCHMARK AS SHOWN ON MAP
 - C CEDAR TREE
 - DL DRIP LINE
 - EA EDGE OF ASPHALT
 - HT HAWTHORNE TREE
 - MB MAIL BOX
 - MON MONUMENT
 - TBM TEMPORARY BENCHMARK
 - WM WATER METER
- ROCKERY HATCH BUILDING HATCH
 CONCRETE HATCH GRAVEL HATCH
 OVERHEAD POWER LINE
 SPOT ELEVATION
 CONIFER TREE DECIDUOUS TREE

BENCHMARK & DATUM INFO

VERTICAL DATUM: NAVD88
 ORIGINAL BM: WSDOT BM NO. ROANOKE; FND. 3"DOMED BRASS DISC SURFACE MON. STAMPED "WSDOT SURVEY MON 2005-ROANOKE" SET ON THE EAST SIDE OF A BRIDGE OVER I-90 ON 72ND AVE SE.
 ELEV. = 155.66
 TBM - A: SET MAGNETIC NAIL & FLAGGING IN THE ASPHALT IN FRONT OF SITE AS SHOWN ON MAP.
 ELEV. = 60.53

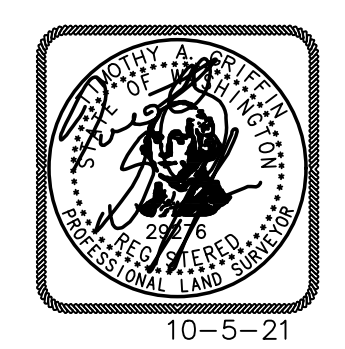
CONTOUR INTERVAL = 2'

LEGAL DESCRIPTION
 (PER QUIT CLAIM DEED NO. 20130430000491; RECORDS OF KING CO.)
 LOT A OF MERCER ISLAND SHORT PLAT NO. MI 89-08-18, RECORDED UNDER KING COUNTY RECORDING NO. 8911229007.

- GENERAL NOTES**
1. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION EXISTING AT THAT TIME.
 2. UNDERGROUND UTILITIES WERE LOCATED BASED ON THE SURFACE EVIDENCE OF UTILITIES (I.E. PAINT MARKS, SAW CUTS IN PAVEMENT, COVERS, LIDS ETC.) AND FROM CITY OF MERCER ISLAND GIS UTILITY MAP. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 3. TREE SIZES WERE LOCATED & SPECIES DETERMINED TO THE BEST OF OUR ABILITY. HOWEVER, THE SURVEYORS DOES NOT WARRANT THE ACCURACY OF SIZE & SPECIES SHOWN HEREON. ANY TREES CONSIDERED TO BE CRITICAL SHOULD BE VERIFIED BY A TRAINED ARBORIST.
 4. EASEMENTS SHOWN HEREON FROM CHICAGO TITLE COMMITMENT NUMBER 0225872-ETU DATED OCTOBER 29, 2021.
 5. NO PROPERTY CORNERS WERE SET IN CONJUNCTION WITH THIS SURVEY.
 6. THE BOUNDARY FOR THIS SURVEY WAS COMPUTED USING THE PLAT OF LAKE VIEW PLACE EAST, THE PLAT OF CENTRAL ADD, KING COUNTY RECORDS OF SURVEY NO'S 2016092090019 & 199203319011.
 7. THE PURPOSE OF THIS TOPOGRAPHY SURVEY IS TO AID IN THE DESIGN PHASE OF CONSTRUCTION.
 8. THE CONTOURS SHOWN ARE FROM DIRECT FIELD OBSERVATIONS TO A VERTICAL AND HORIZONTAL POSITIONAL ACCURACY OF ONE-HALF OF THE STATED CONTOUR INTERVAL.
 9. UTILITIES SHOWN HEREON FROM FIELD DIRECT MEASUREMENTS OF SURFACE EVIDENCE (STRUCTURES AND PIPE INVERTS) AT THE TIME OF VISIT.
 10. MAP SYMBOLS ARE NOT TO SCALE.

- EASEMENT NOTES**
- EASEMENT SCHEDULE B ITEM NUMBERS FROM CHICAGO TITLE COMMITMENT NUMBER 0225872-ETU DATED OCTOBER 29, 2021.
3. SUBJECT TO A SIDE SEWER EASEMENT RECORDING NUMBER 4655669 AFFECTS AN UNDISCLOSED PORTION OF SAID LAND ALONG THE LINE AS CONSTRUCTED.
 4. SUBJECT TO EASEMENTS AS SHOWN ON SHORT PLAT NO. MI 89-08-18, REC. NO. 198911229007.
 5. SUBJECT TO AN EASEMENT FOR UTILITIES OVER LOT B AS SHOWN HEREON PER RECORDING NO. 20070726001224.
 7. SUBJECT TO AN EASEMENT FOR ACCESS AND UTILITIES OVER THE SUBJECT PARCEL PER RECORDING NO. 20080107001383.
- THE ACCESS AND UTILITY EASEMENT UNDER RECORDING NUMBER 20070727001487 HAS BEEN TERMINATED BY THE AGREEMENT TERMINATING EASEMENT FOR INGRESS, EGRESS AND UTILITIES PER RECORDING NO. 20221103000596.

PARCEL NUMBER: 409950-0035
 SITE ADDRESS: 2421 60TH AVE SE
 NE1/4, NE1/4, SEC. 11, T. 24 N., R. 4 E., W.M.
 CITY OF MERCER ISLAND, WASHINGTON



REV. REMOVE ESMT 11/22/22 TG
 REV. ADD ESMTS 1/12/22 TG

TOPOGRAPHIC SURVEY for MARY SMERSH		
2421 60TH AVE SE MERCER ISLAND, WASHINGTON 98040		
Tye Surveyors PROFESSIONAL LAND SURVEYORS 10007 GREENWOOD AV. N. SEATTLE, WA. 98133 206-525-3660		
DRAWN BY: AA	DATE: 10-5-21	JOB NO.: 21199
CHKD BY: TG	SCALE: 1" = 10'	SHEET: 1 OF 1

NE1/4, NE1/4, SEC. 11, T. 24 N., R. 4 E., W.M.

LEGAL DESCRIPTION

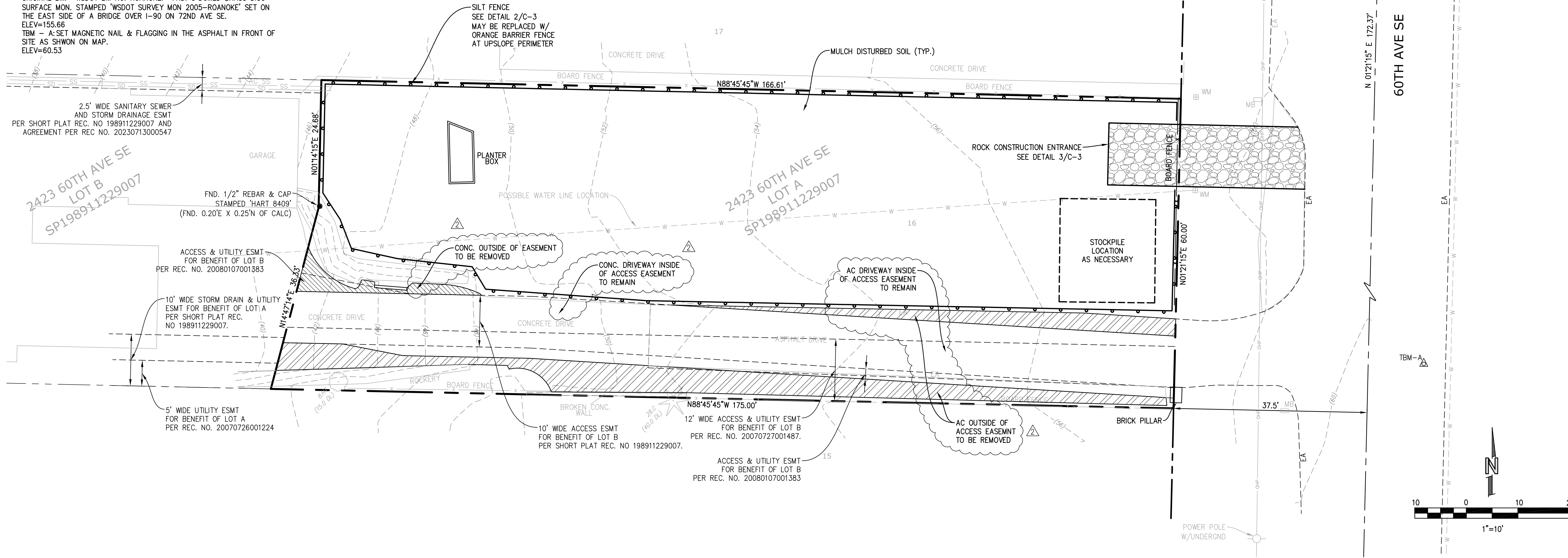
(PER QUIT CLAIM DEED NO. 2013043000491; RECORDS OF KING CO.) LOT A OF MERCER ISLAND SHORT PLAT NO. M 89-08-18, RECORDED UNDER KING COUNTY RECORDING NO. 8911229007.

VERTICAL DATUM

VERTICAL DATUM: NAVD88

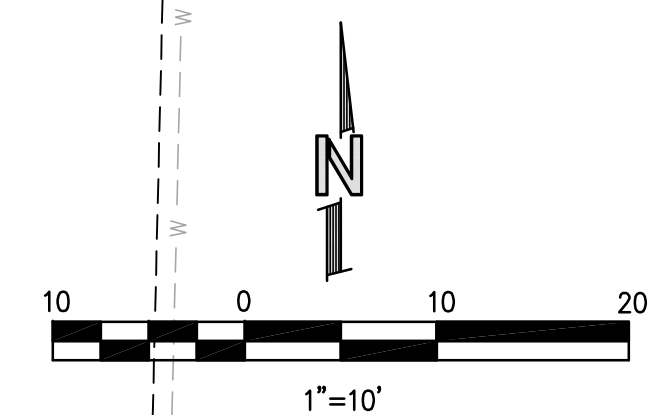
BENCHMARK

ORIGINAL BM: WSDOT BM NO. ROANOKE: FND. 3"DOMED BRASS DISC SURFACE MON. STAMPED "WSDOT SURVEY MON 2005-ROANOKE" SET ON THE EAST SIDE OF A BRIDGE OVER I-90 ON 72ND AVE SE. ELEV=153.66
TBM - A: SET MAGNETIC NAIL & FLAGGING IN THE ASPHALT IN FRONT OF SITE AS SHOWN ON MAP. ELEV=60.53



FND. 3" CIRCULAR CONC. MON. W/ INVERTED NAIL, IN CASE DOWN 0.6' FROM GRADE (HELD FOR POSITION)

N 01°21'15" E 172.37'
60TH AVE SE



EROSION AND SEDIMENT CONTROL NOTES

- APPROVAL OF THIS EROSION AND SEDIMENT CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADE OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY A CONTINUOUS LENGTH OF SURVEY TAPE (OR FENCING, IF REQUIRED) PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.).
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES DURING THE WET SEASON (OCT. 1 TO APRIL 30) AND OF MONTHLY REVIEWS DURING THE DRY SEASON (MAY 1 TO SEPT. 30).
- ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- ANY AREA NEEDING ESC MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN FORTY-EIGHT (48) HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- STABILIZED CONSTRUCTION ENTRANCES AND ROADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- ANY PERMANENT FLOW CONTROL FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
- WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.
- PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE DDES INSPECTOR. THE DDES INSPECTOR CAN REQUIRE SEEDED OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.

POLLUTION PREVENTION AND SPILL CONTROL

- STORAGE AND HANDLING OF LIQUIDS**
- MINIMIZE AMOUNT OF LIQUIDS STORED ON SITE.
 - STORE AND CONTAIN LIQUID MATERIALS IN SUCH A MANNER THAT IF A VESSEL IS RUPTURED OR LEAKS, THE CONTENTS WILL NOT DISCHARGE, FLOW, OR BE WASHED INTO THE STORM DRAINAGE SYSTEM, SURFACE WATERS, OR GROUNDWATER. TYPICALLY THIS MEANS INSTALLING SECONDARY CONTAINMENT, SUCH AS A LINED EXCAVATION, LARGER CONTAINER, OR USING A DOUBLE-WALLED TANK OR SIMILAR COMMERCIAALLY AVAILABLE CONTAINMENT FACILITY.
 - PLACE TIGHT-FITTING LIDS ON ALL CONTAINERS.
 - ENCLOSE OR COVER THE CONTAINERS WHERE THEY ARE STORED TO PROTECT FROM RAIN. THE LOCAL FIRE DISTRICT MUST BE CONSULTED FOR LIMITATIONS ON CLEARANCE OF ROOF COVERS OVER CONTAINERS USED TO STORE FLAMMABLE MATERIALS.
 - RAISE THE CONTAINERS OFF THE GROUND BY USING A SPILL CONTAINMENT PALLET OR SIMILAR METHOD THAT HAS PROVISIONS FOR SPILL CONTROL.
 - PLACE DRIP PANS OR ABSORBENT MATERIALS BENEATH ALL MOUNTED CONTAINER TAPS, AND AT ALL POTENTIAL DRIP AND SPILL LOCATIONS DURING FILLING AND UNLOADING OF CONTAINERS. ANY COLLECTED LIQUIDS OR SOILED ABSORBENT MATERIALS MUST BE REUSED, RECYCLED, OR PROPERLY DISPOSED OF.
 - STORE AND MAINTAIN ABSORBENT PADS OR APPROPRIATE SPILL CLEANUP MATERIALS NEAR THE CONTAINER STORAGE AREA, IN A LOCATION KNOWN TO ALL. ENSURE THAT EMPLOYEES ARE FAMILIAR WITH THE SITE'S SPILL PLAN AND/OR PROPER SPILL CLEANUP PROCEDURES.
 - CHECK CONTAINERS (AND ANY CONTAINMENT SUMPS) DAILY FOR LEAKS AND SPILLS. REPLACE CONTAINERS THAT ARE LEAKING, CORRODED, OR OTHERWISE DETERIORATING. IF THE LIQUID CHEMICALS ARE CORROSIVE, CONTAINERS MADE OF COMPATIBLE MATERIALS MUST BE USED INSTEAD OF METAL DRUMS. NEW OR SECONDARY CONTAINERS MUST BE LABELED WITH THE PRODUCT NAME AND HAZARDS.
 - PLACE DRIP PANS OR ABSORBENT MATERIALS BENEATH A CONTAINER THAT IS FOUND TO BE LEAKING. REMOVE THE DAMAGED CONTAINER AS SOON AS POSSIBLE. MOP UP THE SPILLED LIQUID WITH ABSORBENT PADS OR RAGS. ANY COLLECTED LIQUIDS OR SOILED ABSORBENT MATERIALS MUST BE REUSED, RECYCLED, OR PROPERLY DISPOSED OF.
- FUELING**
- LOCATE THE FUELING OPERATION TO ENSURE LEAKS OR SPILLS WILL NOT DISCHARGE, FLOW, OR BE WASHED INTO THE STORM DRAINAGE SYSTEM, SURFACE WATER, OR GROUNDWATER.
 - USE DRIP PANS OR ABSORBENT PADS TO CAPTURE DRIPS OR SPILLS DURING FUELING OPERATIONS.
 - IF FUELING IS DONE DURING EVENING HOURS, LIGHTING MUST BE PROVIDED.
 - STORE AND MAINTAIN APPROPRIATE SPILL CLEANUP MATERIALS IN THE MOBILE FUELING VEHICLE. ENSURE THAT EMPLOYEES ARE FAMILIAR WITH PROPER SPILL CONTROL AND CLEANUP PROCEDURES.
 - IMMEDIATELY MOP UP ANY SPILLED FUEL WITH ABSORBENT PADS OR RAGS. ANY COLLECTED LIQUIDS OR SOILED ABSORBENT MATERIALS MUST BE REUSED, RECYCLED, OR PROPERLY DISPOSED OF.
- CONCRETE SAW CUTTING, SLURRY, AND WASHWATER DISPOSAL**
- SLURRY FROM SAW CUTTING THE SIDEWALK SHALL BE VACUUMED SO THAT IT DOES NOT ENTER NEARBY STORM DRAINS.
 - CONCRETE TRUCK CHUTES, PUMPS, AND INTERNALS SHALL BE WASHED OUT ONLY INTO FORMED AREAS AWAITING INSTALLATION OF CONCRETE.
 - UNUSED CONCRETE REMAINING IN THE TRUCK AND PUMP SHALL BE RETURNED TO THE ORIGINATING BATCH PLANT FOR RECYCLING.
 - HAND TOOLS INCLUDING, BUT NOT LIMITED TO, SCREEDS, SHOVELS, RAKES, FLOATS, AND TROWELS SHALL BE WASHED OFF ONLY INTO FORMED INTO FORMED AREAS AWAITING INSTALLATION OF CONCRETE OR IMPERMEABLE ASPHALT.
 - EQUIPMENT THAT CANNOT BE EASILY MOVED, SUCH AS CONCRETE PAVERS, SHALL ONLY BE WASHED IN AREAS THAT DO NOT DIRECTLY DRAIN TO NATURAL OR CONSTRUCTED STORMWATER CONVEYANCES.
 - WASHDOWN FROM AREAS SUCH AS CONCRETE AGGREGATE DRIVEWAY SHALL NOT DRAIN DIRECTLY TO NATURAL OR CONSTRUCTED STORMWATER CONVEYANCES.
 - WHEN NO FORMED AREAS ARE AVAILABLE, WASHWATER AND LEFTOVER PRODUCT SHALL BE CONTAINED IN A LINED CONTAINER. CONTAINED CONCRETE SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.
 - CONTAINERS SHALL BE CHECKED FOR HOLES IN THE LINER DAILY DURING CONCRETE POURS AND REPLACED THE SAME DAY.

INB
Nick Bossoff Engineering, Inc.
191 NE Tarr Lane
Stevenson, WA 98648-4201
Phone: (425) 881-5904

KING COUNTY REGISTERED PROFESSIONAL ENGINEER
NO. 12500
EXPIRES 7/27/25

NO.	DATE	REVISION
1	06/31/22	PERMIT SUBMITTAL
2	03/27/23	CITY INTAKE COMMENTS
3	06/15/23	CITY COMMENTS

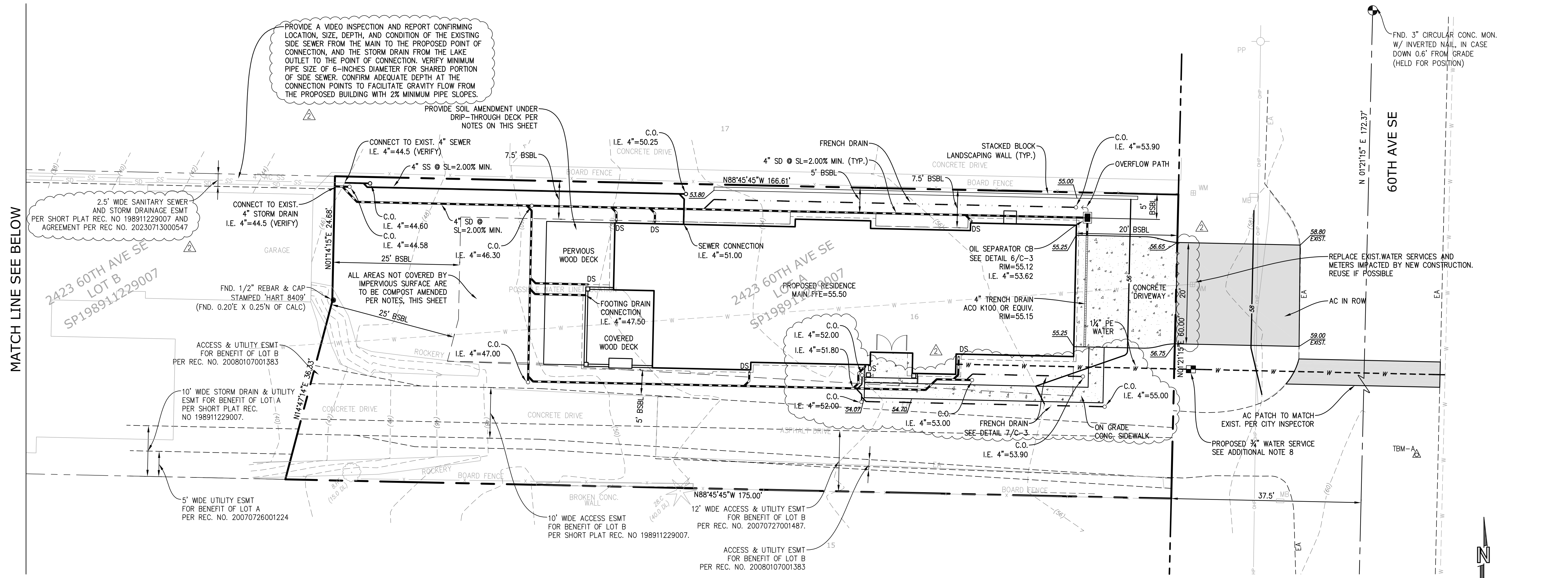
N. BOSSOFF, P.E.
PROJECT MANAGER: NB
DESIGNED: TKB
DRAWN: SARC-2203
JOB NUMBER: SARC-2203pln.dwg
FILE NAME: SARC-2203pln.dwg

M. SMERSH RESIDENCE
2423 60TH AVE SE
WASHINGTON
MERCER ISLAND

TITLE: **T.E.S.C. PLAN**

SHEET: **C-1**

CALL 48 HOURS BEFORE YOU DIG
1-800-424-5555



MATCH LINE SEE BELOW

MATCH LINE SEE ABOVE

POST-CONSTRUCTION SOIL QUALITY AND DEPTH NOTES

THE LAWN AND LANDSCAPE AREAS ARE REQUIRED TO PROVIDE POST-CONSTRUCTION SOIL QUALITY AND DEPTH IN ACCORDANCE WITH BMP 15.13. THE PROJECT GEOTECHNICAL ENGINEER MUST PROVIDE A LETTER OF CERTIFICATION TO ENSURE THAT THE LAWN AND LANDSCAPE AREAS ARE MEETING THE POST-CONSTRUCTION SOIL QUALITY AND DEPTH REQUIREMENTS SPECIFIED ON THE APPROVED PLAN SET PRIOR TO FINAL INSPECTION OF THE PROJECT.

A. SOIL RETENTION: RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.

B. SOIL QUALITY: ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:

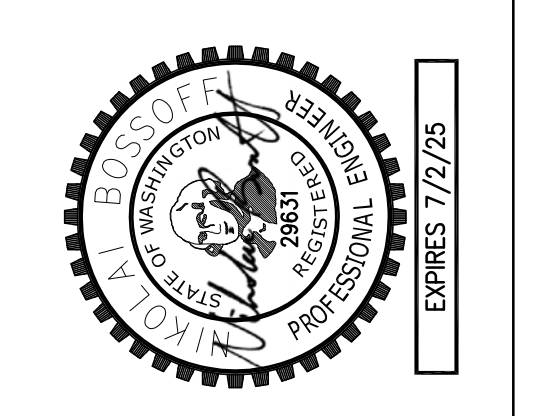
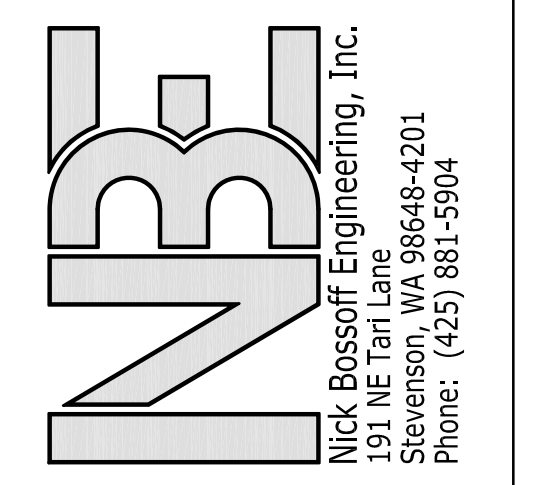
1. A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.
2. MULCH PLANTING BEDS WITH 2 INCHES OF ORGANIC MATERIAL.
3. USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS:
 - A. THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE DEFINITION OF "COMPOSTED MATERIALS" IN WAC 173-350-220, WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE. THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1. THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.
 - B. CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIAL MEETING (A.) ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE CONTAMINANT LIMITS IDENTIFIED IN TABLE 220-B, TESTING PARAMETERS, IN WAC 173-350-220.
4. THE RESULTING SOIL SHOULD BE CONDUCTIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED.

C. IMPLEMENTATION OPTIONS: THE SOIL QUALITY DESIGN GUIDELINES LISTED ABOVE CAN BE MET BY USING ONE OF THE METHODS LISTED BELOW:

1. LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL AND PROTECT FROM COMPACTION DURING CONSTRUCTION.
2. AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT "PREAPPROVED" RATES, OR AT CUSTOM CALCULATED RATES BASED ON TESTS OF THE SOIL AND AMENDMENT.
3. STOCKPILE EXISTING TOPSOIL DURING GRADING AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS, EITHER AT A DEFAULT "PRE-APPROVED" RATE OR AT A CUSTOM CALCULATED RATE.
4. IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS. MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE. SOIL THAT ALREADY MEETS THE DEPTH AND ORGANIC MATTER QUALITY STANDARDS, AND IS NOT COMPACTED, DOES NOT NEED TO BE AMENDED.

ADDITIONAL NOTES:

1. ALL CONSTRUCTION MATERIALS AND PRACTICE SHALL CONFORM TO THE CITY OF MERCER ISLAND STANDARDS AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARDS.
2. EXISTING UTILITIES AS SHOWN ARE FROM CITY RECORDS AND ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY, LOCATE AND PROTECT ABOVE AND BELOW GRADE UTILITIES. CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION IF A CONFLICT EXISTS BETWEEN EXISTING UTILITIES AND THE PROPOSED IMPROVEMENTS.
3. THE CONTRACTOR IS RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROL AND SHALL MAINTAIN THE NECESSARY SAFEGUARDS AND MANAGE THE CONSTRUCTION SO AS TO PREVENT WATERBORNE SEDIMENTS FROM LEAVING THE SITE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR.
5. ON-SITE PRIVATE STORM AND SEWER PIPE SHALL BE SOLVENT WELDED SCHEDULE 40 PVC OR PVC ASTM D3034 SDR35 UNLESS SHOWN OTHERWISE. PVC PIPE LAID AT A SLOPE IN EXCESS OF 20% SHALL BE SOLVENT WELDED SCHEDULE 40 PVC. STORM PIPE IN THE RIGHT-OF-WAY SHALL BE HIGH-DENSITY POLYETHYLENE DOUBLE-WALLED SMOOTH INTERIOR PIPE SUCH AS ADS N-12 OR EQUIVALENT.
6. FOOTING DRAINS SHALL BE INSTALLED AROUND THE BASE OF ALL FOUNDATION FOOTINGS THAT ENCLOSE A CRAWL SPACE, CELLAR, BASEMENT, GARAGE OR OTHER BUILDING SPACE. FOOTING DRAINS SHALL BE PERFORATED 4-INCH DIAMETER PVC CONFORMING TO D2729, PERFORATIONS DOWN. GRANULAR BACKFILL SHALL BE PLACED AROUND AND ABOVE THE DRAIN TO A DEPTH OF 2/3 OF THE WALL HEIGHT. FILTER FABRIC (MIRAFI 140N OR EQUIVALENT) SHALL BE PLACED BETWEEN THE GRANULAR BACKFILL AND NATIVE SOILS. TIE THE FOOTING DRAIN INTO THE STORM LINE AT A LOCATION WHERE THE FOOTING DRAIN ELEVATION IS AT LEAST 12-INCHES ABOVE THE STORM LINE.
7. EXISTING SIDE SEWER AND STORM DRAIN DEPTH AND LOCATION SHALL BE DETERMINED PRIOR TO ANY CONSTRUCTION, INCLUDING BUILDING CONSTRUCTION. REPORT CONFLICTS WITH PROPOSED CONSTRUCTION TO ENGINEER. NEW SIDE SEWER CONNECTION TO MAIN OR SEWER EJECTOR PUMP MAY BE NECESSARY FOR BASEMENT. PROPOSED METER LOCATION, IF SHOWN, IS APPROXIMATE. CONTRACTOR TO COORDINATE EXACT LOCATION OF NEW SERVICE/METER/ SUPPLY LINE WITH CITY WATER DEPARTMENT DURING CONSTRUCTION.
8. EACH DOWNSPOUT SHALL CONNECT TO A RIGID NON-PERFORATED PIPE AT THE BUILDING PERIMETER. UNDER NO CIRCUMSTANCES SHALL DOWNSPOUTS CONNECT DIRECTLY TO THE PERFORATED FOOTING DRAIN.
9. USE SAND COLLARS FOR PVC PIPE CONNECTIONS TO MANHOLES.
10. VERTICAL BENDS ON THE STORM DRAINS MAY BE NECESSARY TO MAINTAIN MIN. 1.5' SOIL COVER OVER PIPE. MAX. PIPE BENDS TO BE 45'.
11. DOWNSPOUT LOCATIONS SHOWN ARE PRELIMINARY. REFER TO ARCHITECTURAL PLANS FOR FINAL DOWNSPOUT LOCATIONS.
12. AN UNDERSLAB DRAINAGE SYSTEM MAY BE NECESSARY DEPENDENT ON GEOTECHNICAL EVALUATION BY OTHERS.
13. WINDOW WELLS SHALL BE DESIGNED FOR PROPER DRAINAGE BY CONNECTING TO THE BUILDING'S FOUNDATION DRAINAGE SYSTEM REQUIRED PER SECTION R310.2.3.2 OF THE INTERNATIONAL RESIDENTIAL CODE. A DRAINAGE SYSTEM FOR WINDOW WELLS IS NOT REQUIRED WHERE THE FOUNDATION IS ON WELL-DRAINED SOIL OR SAND-GRAVEL MIXTURE SOILS IN ACCORDANCE WITH THE UNITED SOIL CLASSIFICATION SYSTEM, GROUP I SOILS, AS DETAILED IN TABLE R405.1 OF THE IRC



NO.	DATE	REVISION
1	06/31/22	PERMIT SUBMITTAL
2	03/07/23	CITY INTAKE COMMENTS
3	06/15/23	CITY COMMENTS

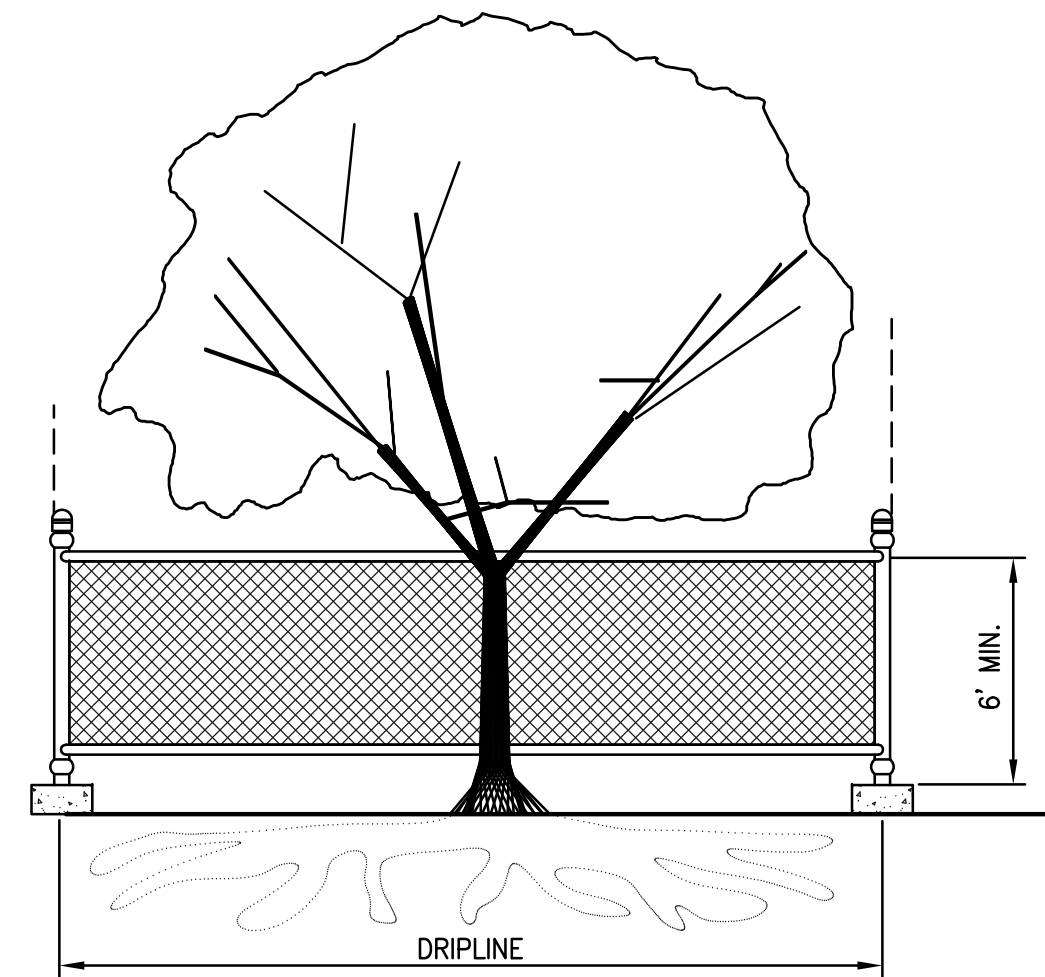
N. BOSSOFF, P.E.
PROJECT MANAGER: NB
DESIGNED: TKB
DRAWN: SARC-2203
JOB NUMBER: SARC-2203pln.dwg
FILE NAME: SARC-2203pln.dwg

M. SMERSH RESIDENCE
2423 60TH AVE SE

WASHINGTON
MERCER ISLAND

TITLE: DRAINAGE PLAN

SHEET: C-2



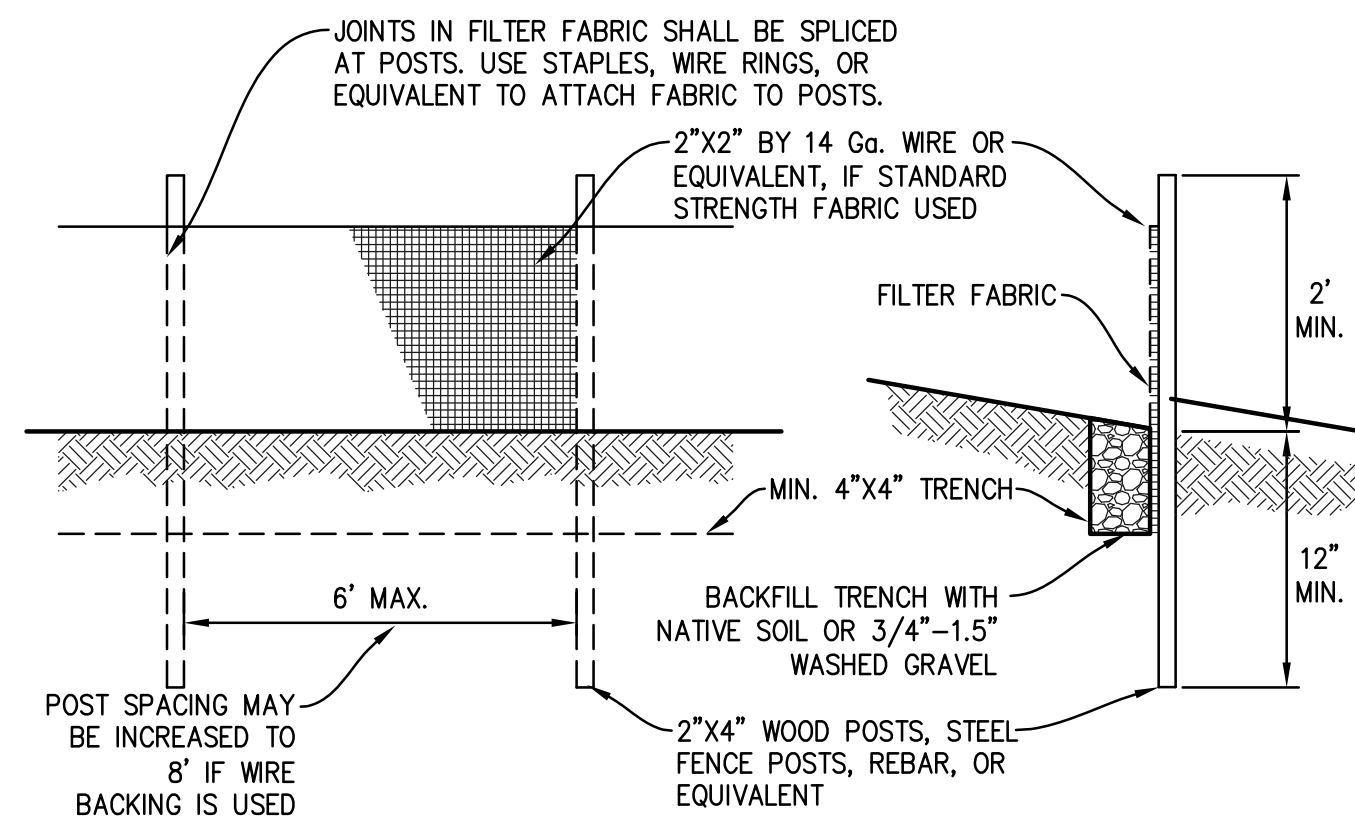
TREE PROTECTION DURING CONSTRUCTION

- 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.
- 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.

TREE PROTECTION

SCALE: NTS

1



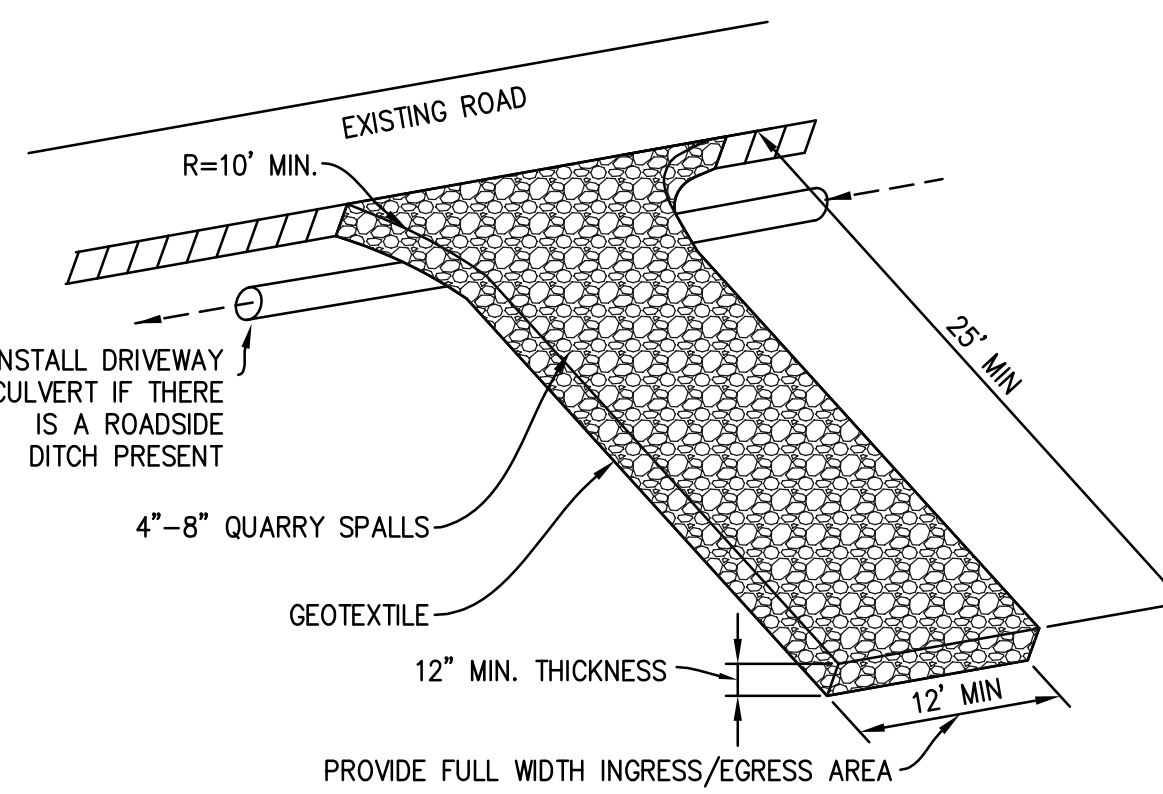
MAINTENANCE STANDARDS

- ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.
- IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT TRAP OR POND.
- IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGN OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCUR, REPLACE THE FENCE AND/OR REMOVE THE TRAPPED SEDIMENT.
- SEDIMENT MUST BE REMOVED WHEN THE SEDIMENT IS 6" HIGH.
- IF THE FILTER FABRIC HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

SILT FENCE

SCALE: NTS

2



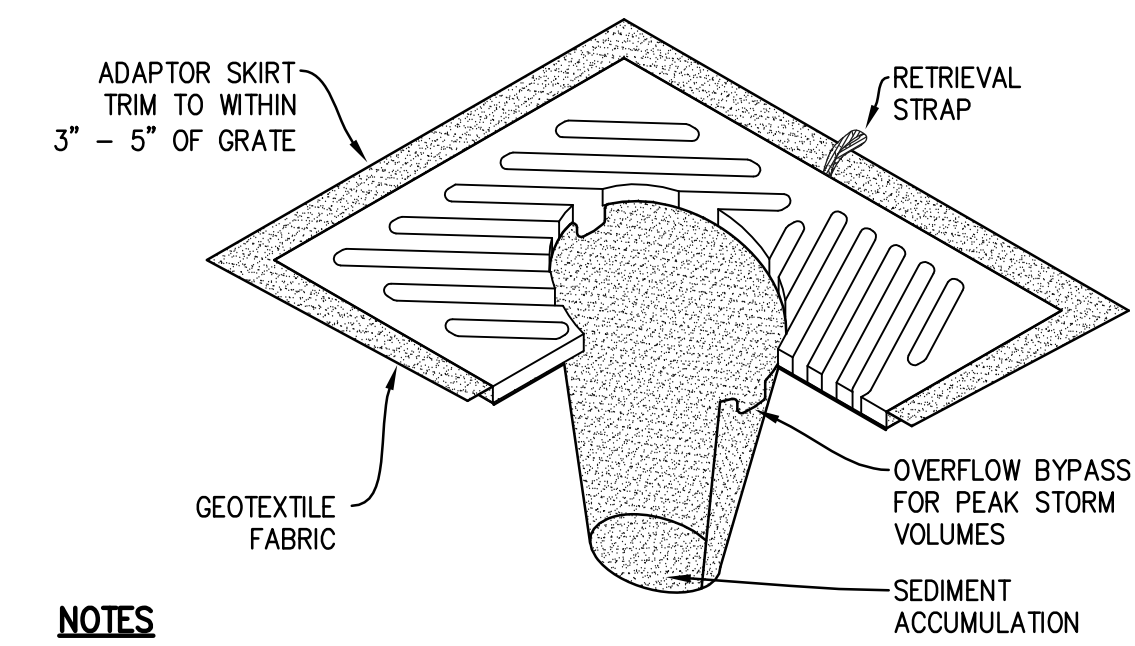
MAINTENANCE STANDARDS

- QUARRY SPALLS (OR HOG FUEL) SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.
- IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH. IF WASHING IS USED, IT SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK, AND WASH WATER SHALL DRAIN TO A SEDIMENT TRAP OR POND.
- ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON-SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREET, THE CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP.
- ANY ROCK SPALLS THAT ARE LOOSENED FROM THE PAD AND END UP ON THE ROADWAY SHALL BE REMOVED IMMEDIATELY.
- IF VEHICLES ARE ENTERING OR EXITING THE SITE AT POINTS OTHER THAN THE CONSTRUCTION ENTRANCE(S), FENCING (SECTION 5.4.1) SHALL BE INSTALLED TO CONTROL TRAFFIC.

ROCK CONSTRUCTION ENTRANCE

SCALE: NTS

3



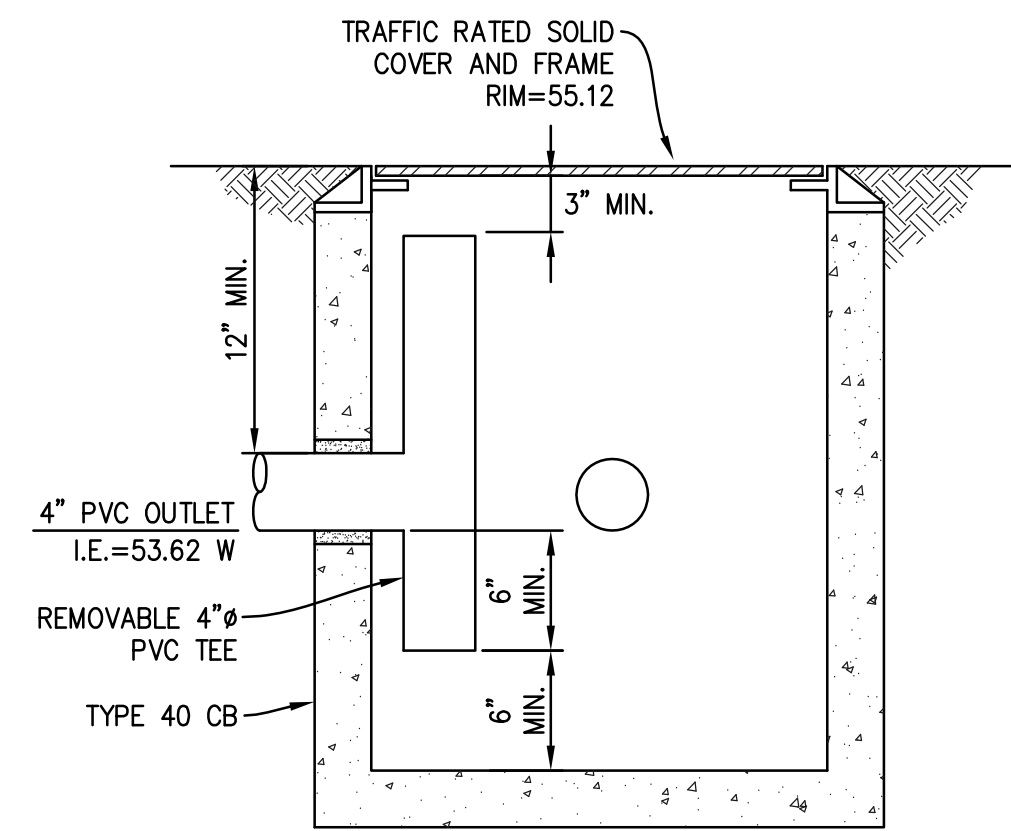
NOTES

- INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
- SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.
- SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.

CB INSERT

SCALE: NTS

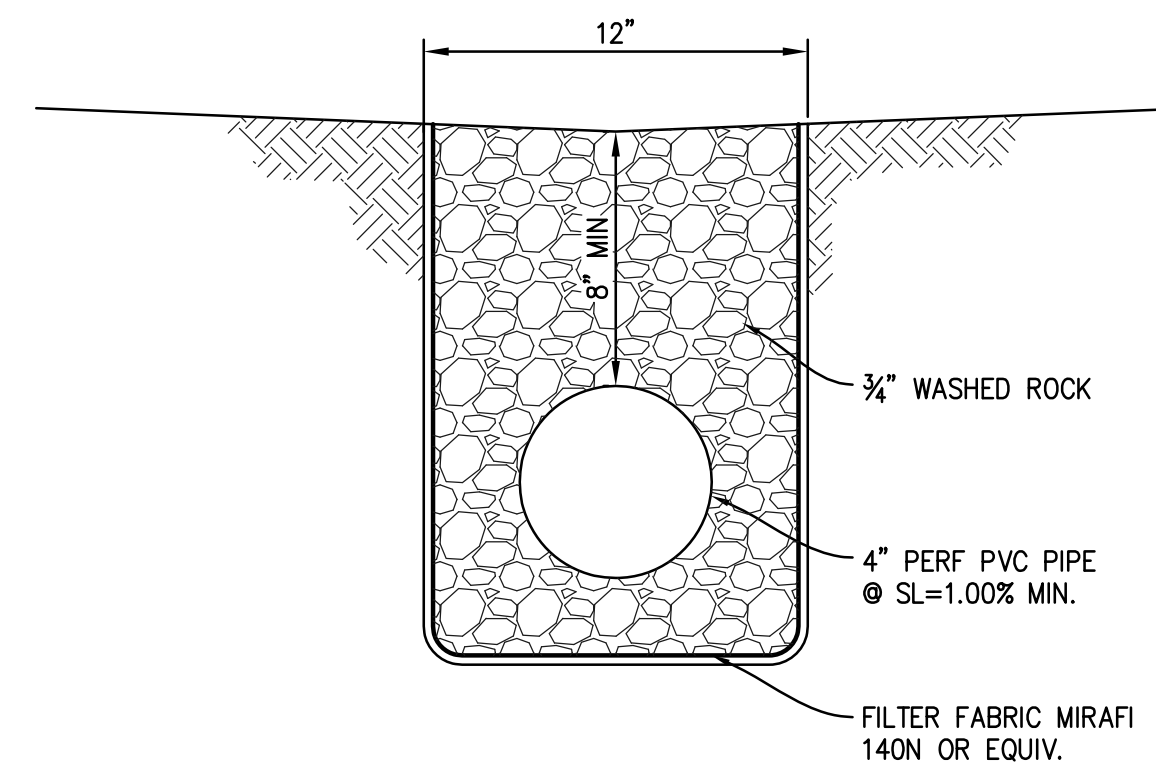
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OIL SEPARATOR CB

SCALE: NTS

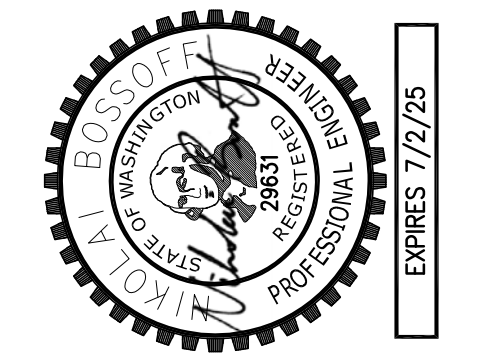
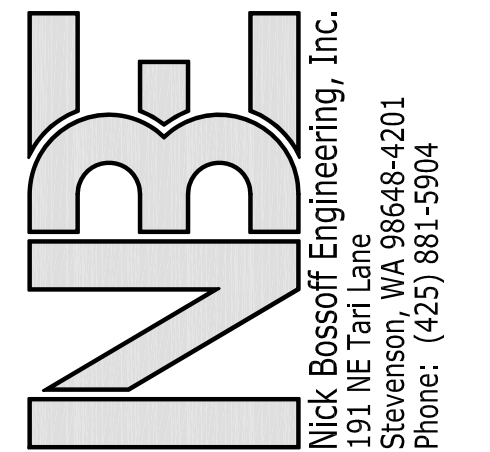
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FRENCH DRAIN

SCALE: NTS

7



NO.	DATE	REVISION
1	06/31/22	PERMIT SUBMITTAL
2	03/27/23	CITY INTAKE COMMENTS
3	06/15/23	CITY COMMENTS

N. BOSSOFF, P.E.
PROJECT MANAGER:
DESIGNED: TKB
DRAWN: SARC-2203
JOB NUMBER: SARC-2203pln.dwg
FILE NAME:

M. SMERSH RESIDENCE
2423 60TH AVE SE

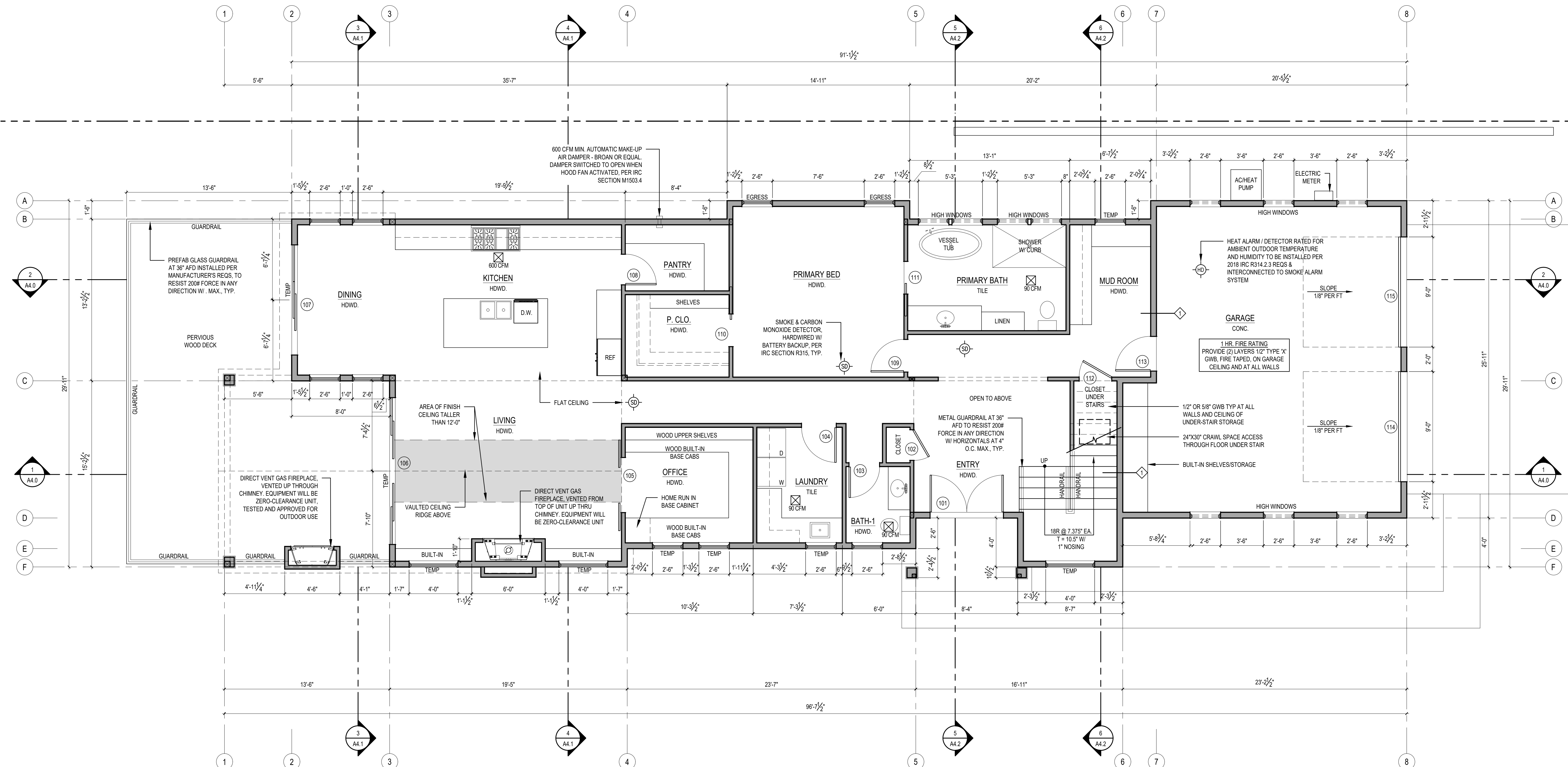
TITLE:
DETAILS

SHEET:
C-3

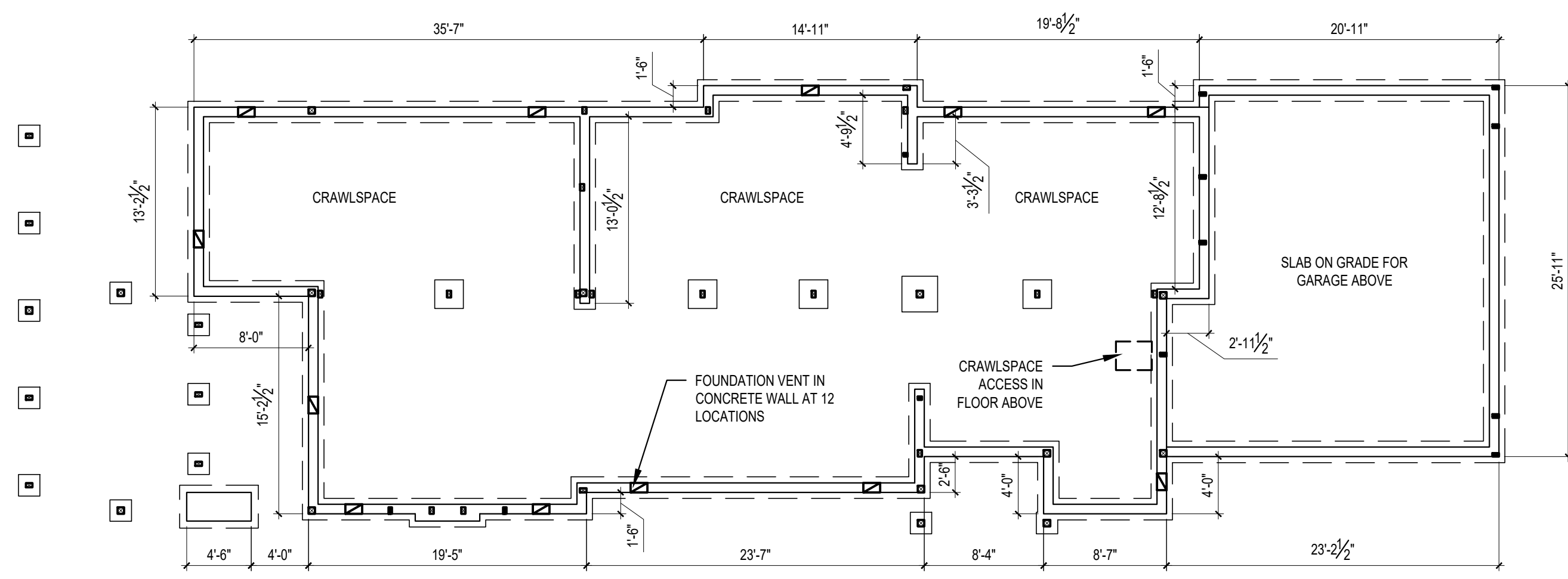
WASHINGTON

MERCER ISLAND

EXPIRES: 7/27/25



1 MAIN FLOOR PLAN
 SCALE: 1/4" = 1'-0"



2 CRAWLSPACE VENT PLAN
 SCALE: 1/8" = 1'-0"

- WALL PARTITION TYPES:**
 N.T.S. (SEE STRUCTURAL SHEETS FOR SHEARWALLS.)
- TYPICAL EXTERIOR WALL
 EXTERIOR WALL FINISH α (2)
 LAYERS 60# BLDG. PAPER α 1/2"
 CDX PLYWOOD α 2x6 WOOD
 STUDS AT 16" O.C. w/ 1/2"
 GYPSUM WALLBOARD AT INTERIOR. PROVIDE R-21 BATT
 INSULATION EXCEPT AROUND GARAGE.
 - TYPICAL INTERIOR PARTITION
 U.N.O. ALL INTERIOR WALL SHALL BE 2x4 WOOD STUDS α
 16" O.C. w/ 1/2" GYPSUM WALLBOARD EACH SIDE.
 - TYPICAL FURRED WALL
 2" AIRSPACE, 2x4 P.T. WOOD STUDS α 16" O.C. w/ 1/2"
 GYPSUM WALLBOARD AT INTERIOR. PROVIDE R-21 BATT
 INSULATION.
 - 1HR. FIRE RATED WALL
 5/8" THK GWB, TYPE 'X' α 2x6 WD STUDS α 16" O.C.
 PANELS NAILED 7" O.C. 1 7/8" CEM CTD NAILS. JOINTS EXP
 OR FIN - PERIM CAULKED-UL DES U305 & U314- JOINTS
 FIN

CRAWLSPACE VENTING:
 (AREA) 1661 SF / 300 = 5.54 SF VENTING REQ'D.
 5.54 SF X 144 = 797.76 SQ. IN.
 88 SQ. IN. STD. VENT.
 797.76 / 88 = 11.7 VENTS REQ.
 12 VENTS WILL BE PROVIDED

USE APPROVED CLASS I VAPOR RETARDER PER
 IRC R408.2 EXCEPTION.

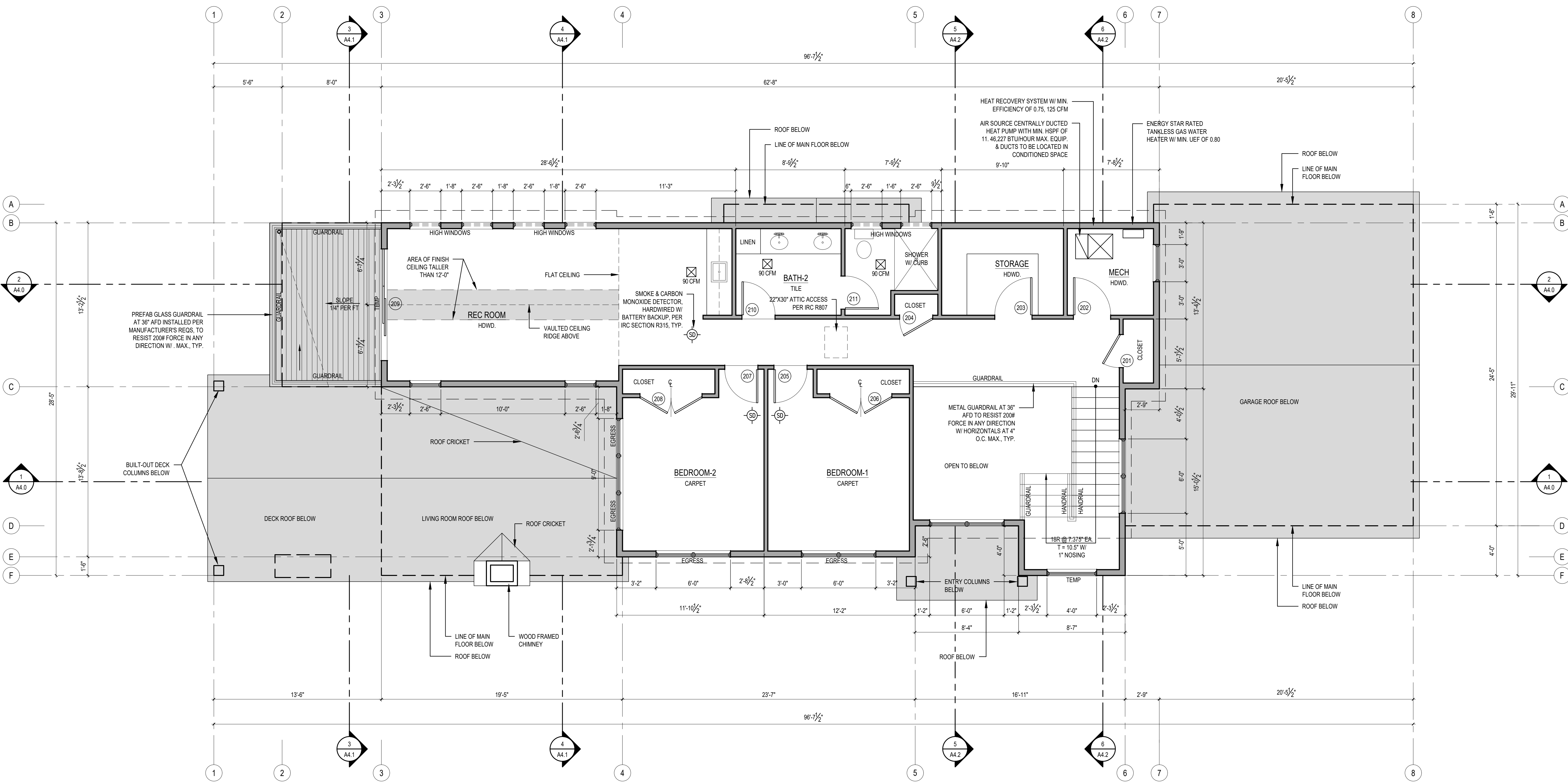
SCALE: IF SHEET IS LESS THAN 24" X 36" IT IS A
 REDUCED PRINT. REDUCE SCALE ACCORDINGLY
 PERMIT SET 08/21/23 PLOT DATE: 8/21/2023

REVISIONS:	DATE	DESCRIPTION
2023-8-21		CORRECTIONS #1

DRAWN BY: KE
 CHECKED BY: BJS
 SHEET

A2.1

SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A REDUCED PRINT; REDUCE SCALE ACCORDINGLY
 PERMIT SET 08/21/23 PLOT DATE: 8/21/2023



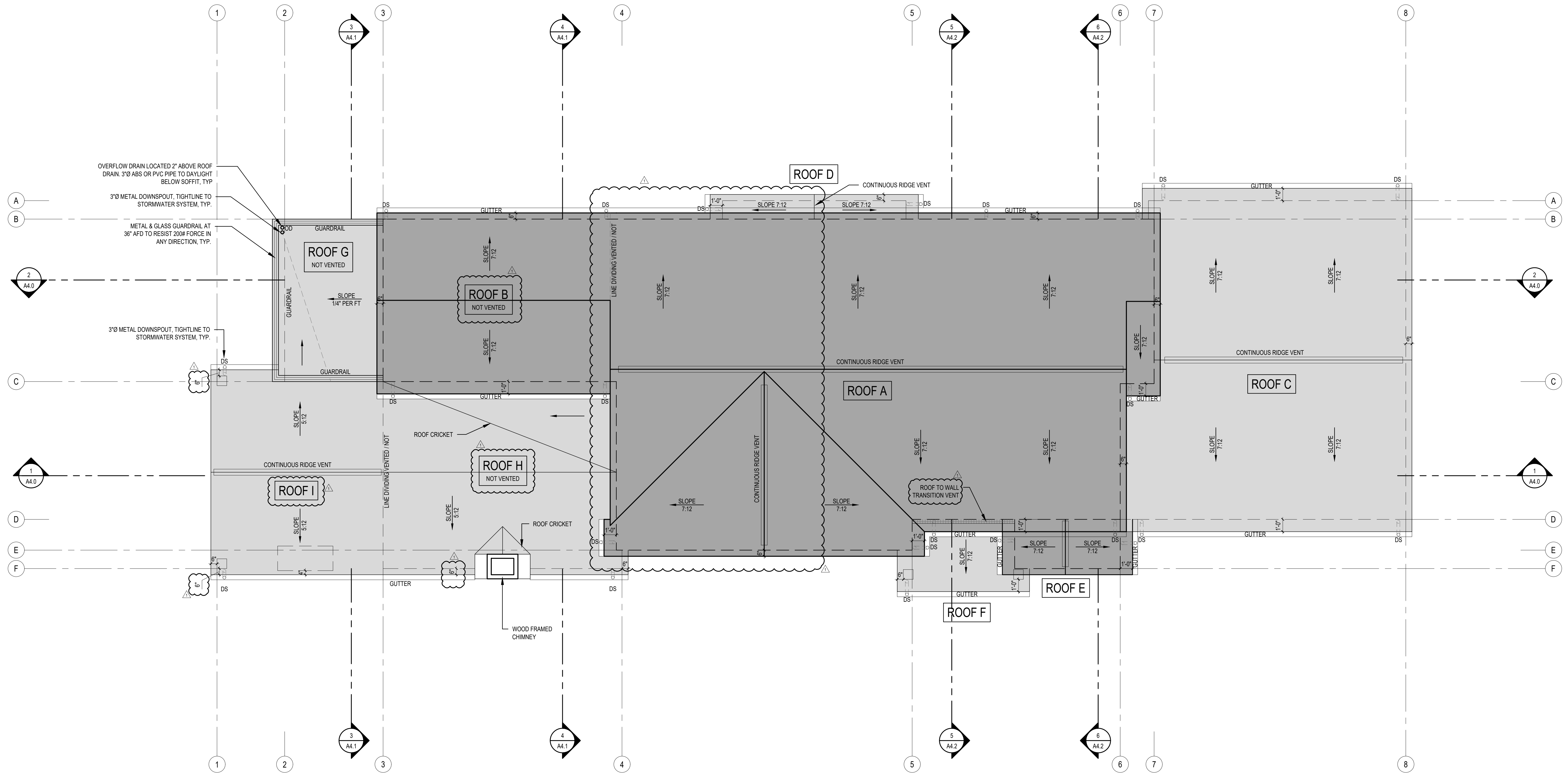
WALL PARTITION TYPES:
 N.T.S. (SEE STRUCTURAL SHEETS FOR SHEARWALLS.)

- TYPICAL EXTERIOR WALL
 EXTERIOR WALL FINISH α (2)
 LAYERS 60# BLDG. PAPER α 1/2"
 CDX PLYWOOD α 2x6 WOOD
 STUDS AT 16" O.C. w/ 1/2"
 GYPSUM WALLBOARD AT INTERIOR. PROVIDE R-21 BATT
 INSULATION EXCEPT AROUND GARAGE.
- TYPICAL INTERIOR PARTITION
 U.N.O. ALL INTERIOR WALL SHALL BE 2x4 WOOD STUDS @
 16" O.C. w/ 1/2" GYPSUM WALLBOARD EACH SIDE.
- TYPICAL FURRED WALL
 2" AIRSPACE, 2x4 P.T. WOOD STUDS @ 16" O.C. w/ 1/2"
 GYPSUM WALLBOARD AT INTERIOR. PROVIDE R-21 BATT
 INSULATION.
- 1HR. FIRE RATED WALL
 5/8" THK GWB, TYPE 'X' α 2x6 WD STUDS @ 16" O.C.
 PANELS NAILED 7" O.C.-1 7/8" CEM CTD NAILS- JOINTS EXP
 OR FIN - PERIM CAULKED- UL DES U305 & U314- JOINTS
 FIN

PLAN NOTES:

- CONTRACTOR SHALL CONFIRM TO INSPECTOR CAPACITY OF ALL GUARDS AND HANDRAILS SHALL BE CAPABLE OF RESISTING 200# FORCE IN ANY DIRECTION.
- ATTIC ACCESS PER IRC R807. THE ACCESS OPENING WILL BE REQUIRED TO BE A MIN. SIZE WHICH ALLOWS REMOVAL OF LARGEST APPLIANCE. SHALL BE LOCATED LESS THAN 20 FEET FROM APPLIANCE. SHALL BE PROVIDED WITH A CONTINUOUS SOLID FLOORING NOT LESS THAN 24 INCHES WIDE. SHALL BE PROVIDED WITH A LUMINAIRE CONTROLLED BY A SWITCH LOCATED AT THE ACCESS OPENING. SHALL HAVE A RECEPTACLE OUTLET LOCATED AT OR NEAR THE APPLIANCES. PER IRC M1305.1.3 & M1305.1.3.1.

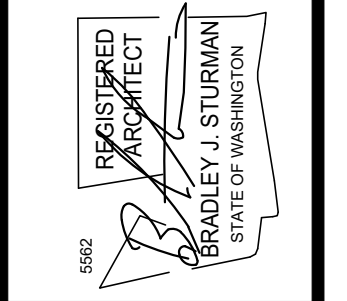
1 UPPER FLOOR PLAN
 SCALE: 1/4" = 1'-0"



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

ROOF VENT CALCULATIONS														
DESCRIPTION	SF AREA	REQ. VENTING		VENT TYPE		X	VENT L.F.	=	TOTAL VENT AREA SQ. IN.	X	SF CONVERT. 1/144	X	ACTUAL	
		150	300	18 SQ. IN./FT.	SOFFIT								80%	EFF
ROOF A	1,104	7.36		18 SQ. IN./FT.	SOFFIT		80		1440		10.00		8.00	11.67
				12 SQ. IN./FT.	CONTINUOUS		55		660		4.58		3.67	
				16 SQ. IN./FT.	CONTINUOUS		44		792		5.50		4.40	5.80
ROOF C	561	3.74		18 SQ. IN./FT.	SOFFIT		3		54		0.38		0.30	0.30
				12 SQ. IN./FT.	CONTINUOUS		21		252		1.75		1.40	
				18 SQ. IN./FT.	CONTINUOUS		1.5				0.00		0.00	
ROOF D	22	0.15		18 SQ. IN./FT.	SOFFIT		8		144		1.00		0.80	0.80
				12 SQ. IN./FT.	CONTINUOUS		4				0.00		0.00	
				18 SQ. IN./FT.	CONTINUOUS		9.75		175.5		1.22		0.98	0.98
ROOF E	34	0.23		12 SQ. IN./FT.	CONTINUOUS		8.5				0.00		0.00	
				18 SQ. IN./FT.	CONTINUOUS									
				12 SQ. IN./FT.	CONTINUOUS									
ROOF F	42	0.28		18 SQ. IN./FT.	SOFFIT									
				12 SQ. IN./FT.	CONTINUOUS									
				18 SQ. IN./FT.	CONTINUOUS									

SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY.
PERMIT SET 08/21/23 PLOT DATE: 8/21/2023



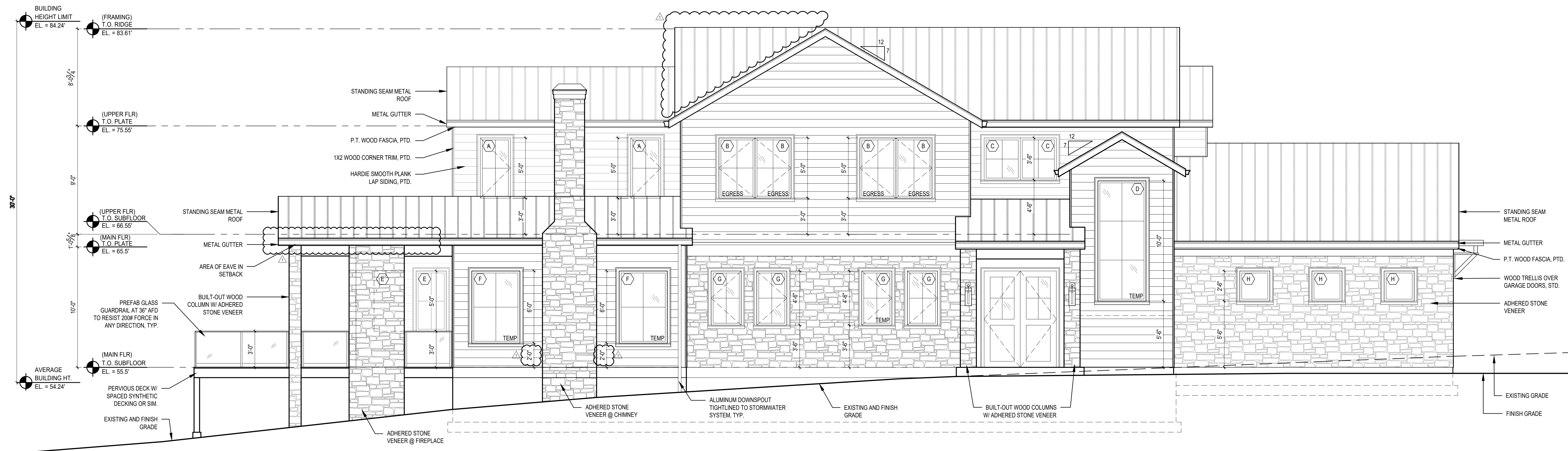
M. SMERSH RESIDENCE
PERMIT SET
2423 60TH AVE SE
MERCER ISLAND, WA 98040

ROOF PLAN

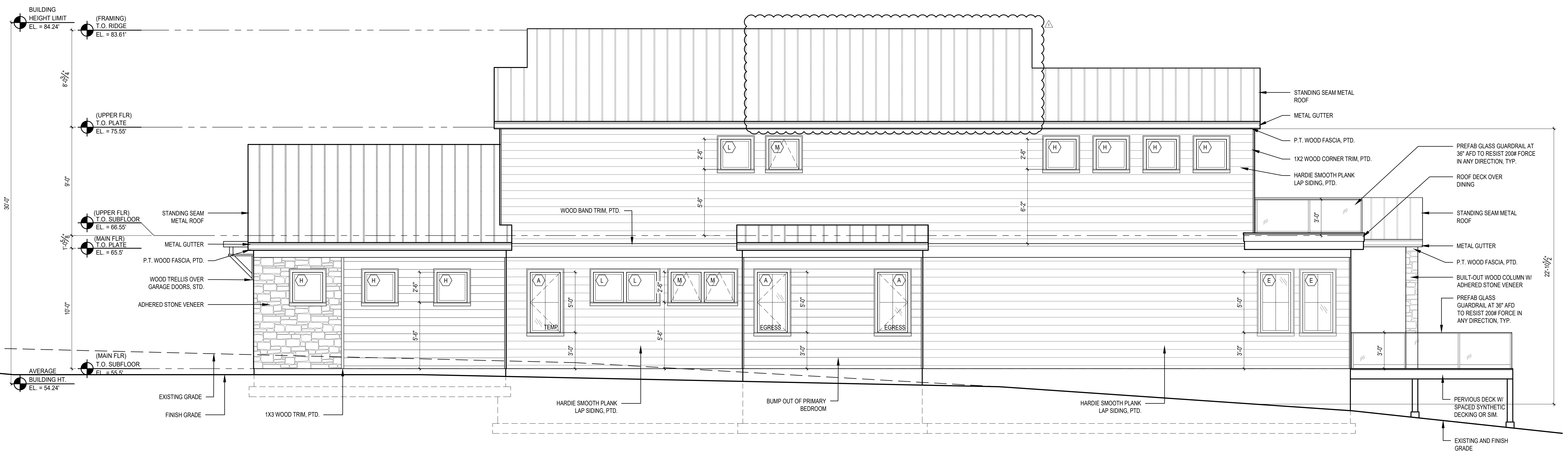
REVISIONS:

2023-8-21 CORRECTIONS #1	

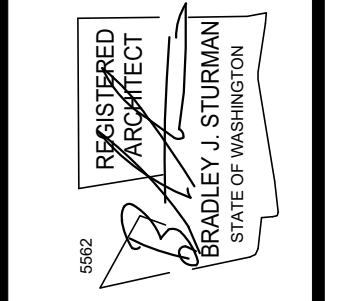
DRAWN BY: KE
CHECKED BY: BJS
SHEET



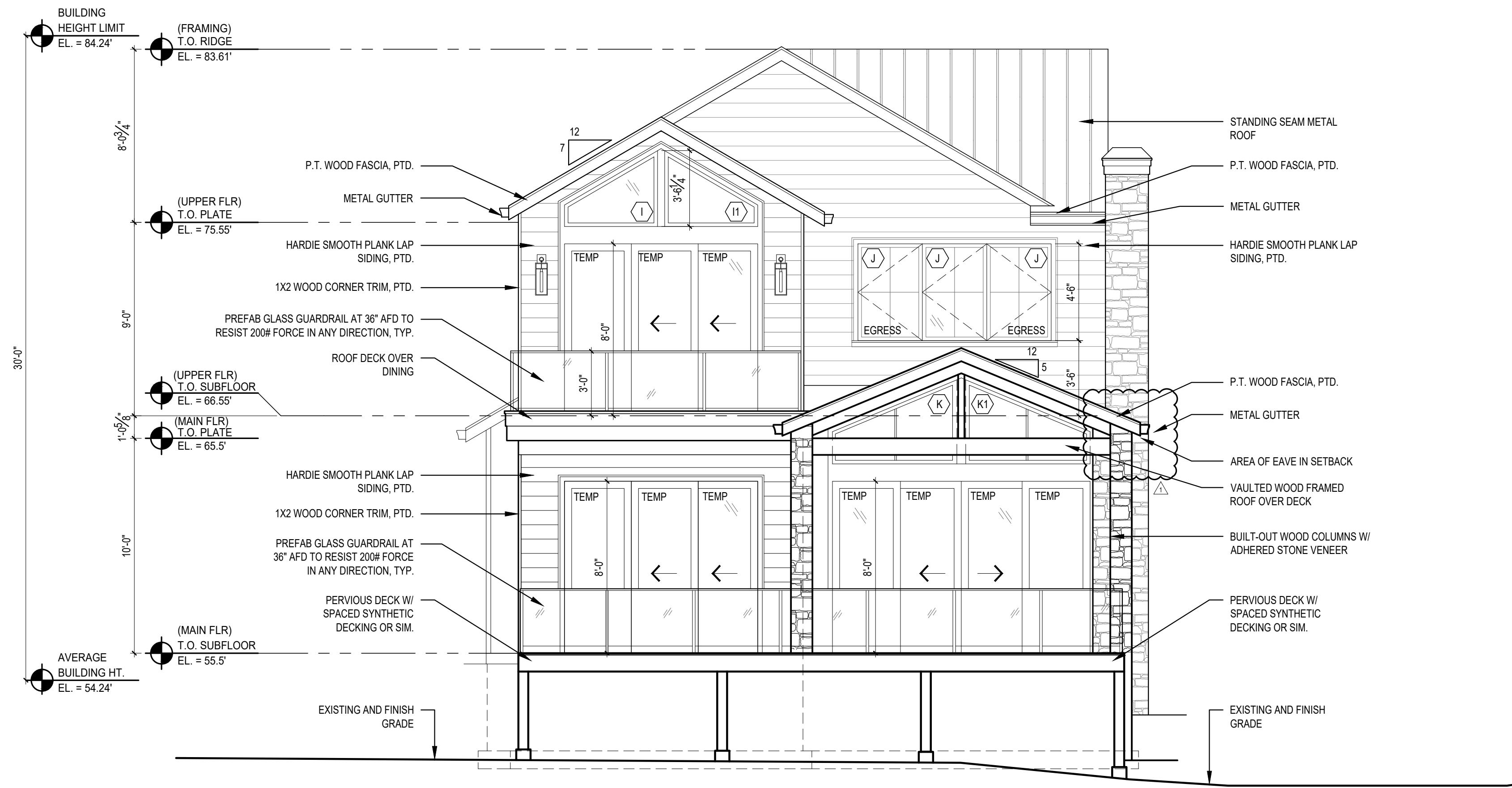
1 SOUTH ELEVATION
SCALE: 1/4" = 1'



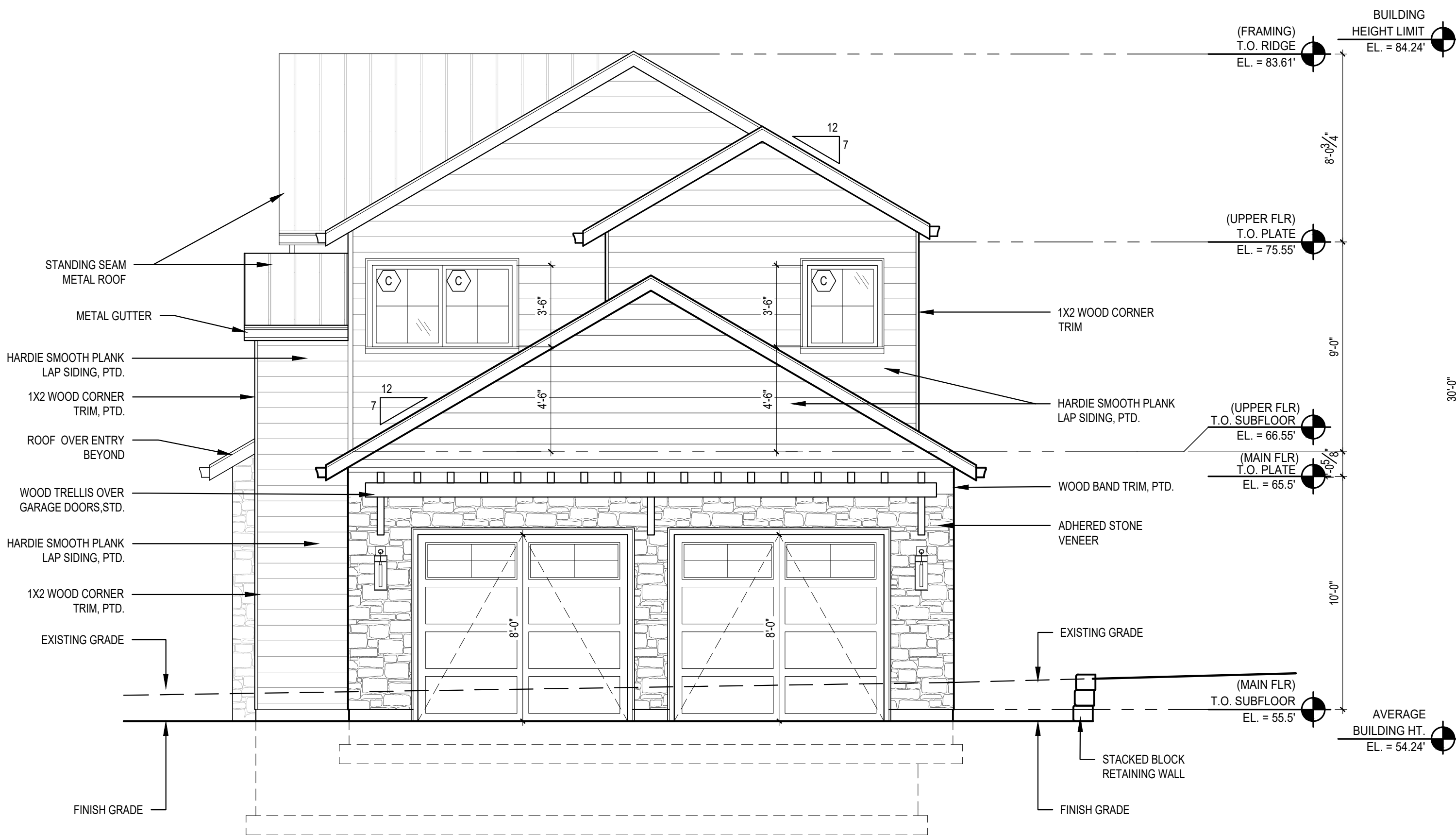
2 NORTH ELEVATION
SCALE: 1/4" = 1'



REVISIONS:	2023-8-21 CORRECTIONS #1
DRAWN BY:	KE
CHECKED BY:	BJS
SHEET	



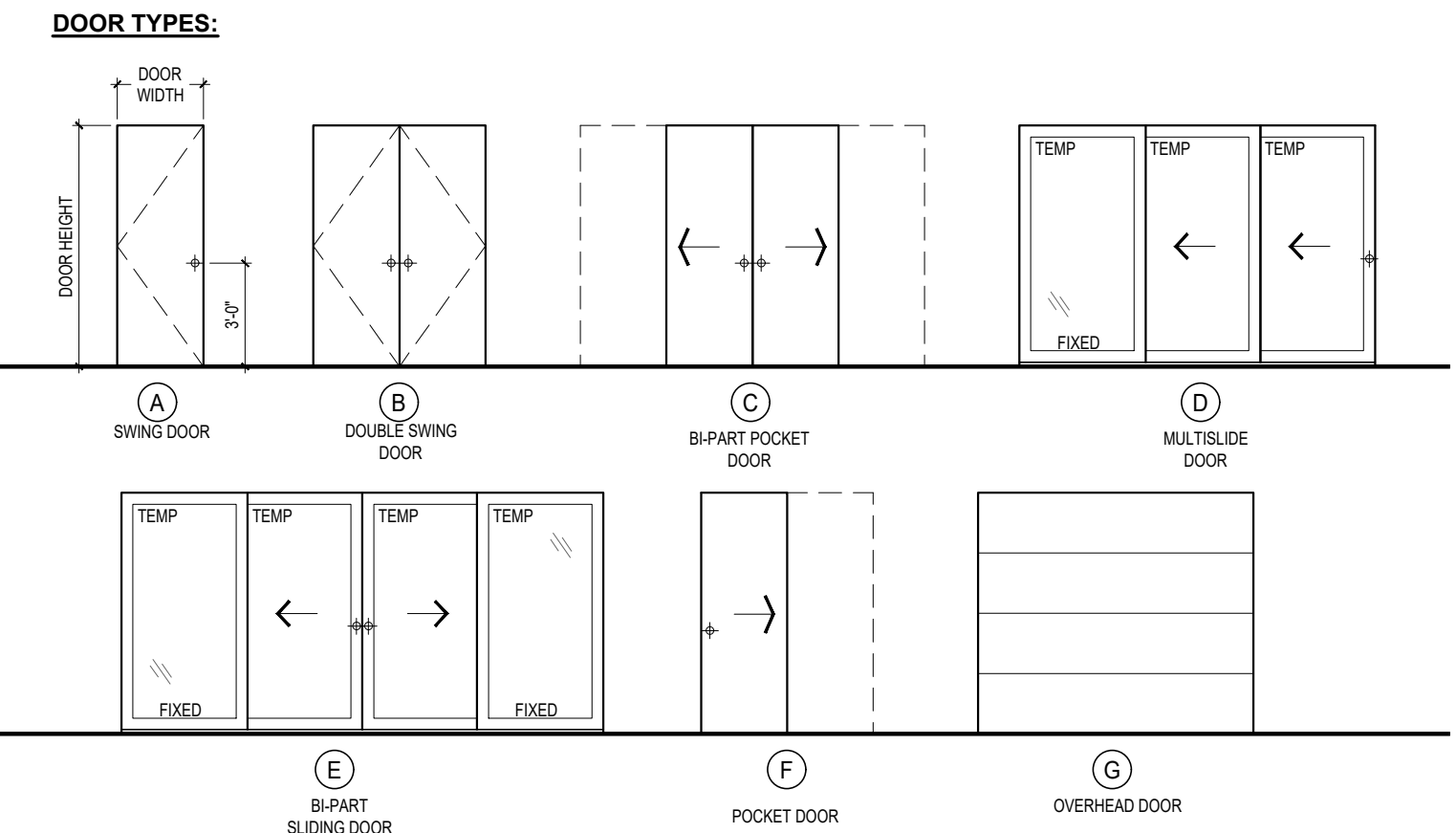
3 WEST ELEVATION
SCALE: 1/4" = 1'



4 EAST ELEVATION
SCALE: 1/4" = 1'

WINDOW SCHEDULE - Smersh Residence									
TAG	DESCRIPTION	R.O. SIZE		TEMP.	QTY.	AREA (SF)	U-VAL (MIN.)	GLAZING	REMARKS & NOTES
		WIDTH	HEIGHT						
A	CASEMENT	2'-6"	5'-0"	TEMP	5	0.28		LOW E / CLEAR	SOME TEMPERED
B	CASEMENT	3'-0"	5'-0"		4	0.28		LOW E / CLEAR	EGRESS
C	FIXED	3'-0"	3'-6"		5	0.28		LOW E / CLEAR	
D	FIXED	4'-0"	10'-0"	TEMP	1	0.28		LOW E / CLEAR	TEMPERED GLASS
E	FIXED	2'-6"	5'-0"		4	0.28		LOW E / CLEAR	
F	FIXED	4'-0"	6'-0"	TEMP	2	0.28		LOW E / CLEAR	TEMPERED GLASS
G	CASEMENT	2'-6"	4'-6"	TEMP	4	0.28		LOW E / CLEAR	SOME TEMPERED
H	FIXED	2'-6"	2'-6"		10	0.28		LOW E / CLEAR	
I	FIXED	4'-4"	3'-6"		1	0.28		LOW E / CLEAR	TRANSOM, SLANTED HEAD
I1	FIXED	4'-4"	3'-6"		1	0.28		LOW E / CLEAR	TRANSOM, SLANTED HEAD, REVERSE
J	CASEMENT	3'-0"	4'-6"		3	0.28		LOW E / CLEAR	EGRESS
K	FIXED	5'-9"	3'-11"		1	0.28		LOW E / CLEAR	TRANSOM, SLANTED HEAD
K1	FIXED	5'-9"	3'-11"		1	0.28		LOW E / CLEAR	TRANSOM, SLANTED HEAD, REVERSE
L	FIXED	2'-6"	2'-6"		3	0.28		LOW E / CLEAR	SHOWER WINDOWS
M	AWNING	2'-6"	2'-6"		3	0.28		LOW E / CLEAR	

DOOR SCHEDULE - Smersh Residence									
DOOR NO.	LOCATION	SIZE WIDTH	SIZE HEIGHT	DOOR TYPE	TEMP. GLASS	DOOR THK.	U-VAL (MIN.)	REMARKS	
MAIN FLOOR									
101	ENTRY	PR 3'-0"	8'-0"		Y	1-3/4"	0.28		TEMPERED GLASS
102	ENTRY CLOSET	2'-6"	8'-0"			1-3/4"			
103	BATH-1	2'-6"	8'-0"			1-3/4"			
104	LAUNDRY	2'-10"	8'-0"			1-3/4"			SOUND GASKET
105	OFFICE	PR 2'-3"	8'-0"			1-3/4"			BI-PART POCKET
106	LIVING	12'-0"	8'-0"			1-3/4"	0.28		TEMP, BI-PART SLIDER
107	DINING	9'-0"	8'-0"		Y	1-3/4"	0.28		TEMPERED GLASS
108	PANTRY	2'-6"	8'-0"			1-3/4"			
109	PRIMARY BEDROOM	2'-8"	8'-0"			1-3/4"			
110	PRIMARY CLOSET	2'-8"	8'-0"			1-3/4"			
111	PRIMARY BATH	2'-8"	8'-0"			1-3/4"			POCKET
112	UNDERSTAIR CLOSET	2'-8"	8'-0"			1-3/4"			
113	GARAGE	2'-10"	8'-0"			1-3/4"			20 MIN FIRE RATED, GASKET, SELF-CLOSING
114	GARAGE	9'-0"	8'-0"			1-3/4"			OVERHEAD DOOR
115	GARAGE	9'-0"	8'-0"			1-3/4"			OVERHEAD DOOR
UPPER FLOOR									
201	HALL CLOSET	2'-8"	8'-0"			1-3/4"			
202	MECHANICAL	3'-0"	8'-0"			1-3/4"			SOUND GASKET
203	STORAGE	3'-0"	8'-0"			1-3/4"			
204	HALL CLOSET	2'-8"	8'-0"			1-3/4"			
205	BEDROOM-1	2'-8"	8'-0"			1-3/4"			
206	BED-1 CLOSET	PR 2'-6"	8'-0"			1-3/4"			
207	BEDROOM-2	2'-8"	8'-0"			1-3/4"			
208	BED-2 CLOSET	PR 2'-6"	8'-0"			1-3/4"			
209	REC ROOM	9'-0"	8'-0"		Y	1-3/4"	0.28		TEMPERED GLASS
210	BATH-2	2'-8"	8'-0"			1-3/4"			
211	BATH-2	2'-8"	8'-0"			1-3/4"			



WINDOW & DOOR SCHEDULE NOTES:

- CONTRACTOR TO VERIFY ALL GLAZING SIZING, AND DOOR DIMENSIONS IN FIELD PRIOR TO ROUGH FRAMING & ORDERING OF GLAZING/WINDOW/DOOR MATERIALS. REVIEW SIZES AND ANY DISCREPANCIES W/ ARCHITECT.
- ALL GLAZING TO BE "LOW E", INSULATED GLASS UNLESS NOTED OTHERWISE.
- ALL OPERABLE WINDOWS TO HAVE SCREENS.
- GLAZING INDOORS AND/OR WITHIN 24" OF A DOOR TO BE TEMPERED. SEE EXTERIOR ELEVATION FOR TEMP. GLASS LOCATION & EGRESS WINDOWS.
- 2018 WSEC & VIAQ RESIDENTIAL PRESCRIPTIVE OPTION 3 ADOPTED. GLAZING AREA INDICATED UNLIMITED. SEE ENERGY NOTE AT A1.0 SHEET FOR DETAILS.
- ALL WINDOWS AND DOORS WITHOUT A BUG ARE EXISTING TO REMAIN.

SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A REDUCED PRINT; REDUCE SCALE ACCORDINGLY
PERMIT SET 08/21/23 PLOT DATE: 8/21/2023

STURMAN ARCHITECTS
 9-103rd Avenue NE Suite 203
 Bellevue, WA 98004
 TEL: 425-4577003

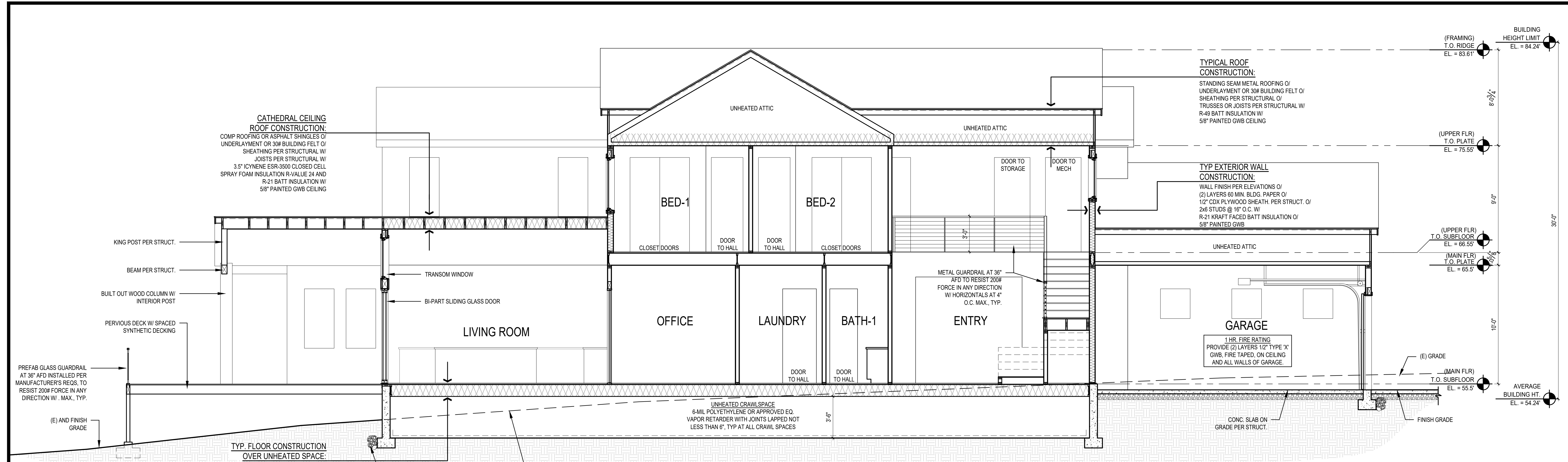
M. SMERSH RESIDENCE
 PERMIT SET
 2423 60TH AVE SE
 MERCER ISLAND, WA 98040

EXTERIOR ELEVATIONS

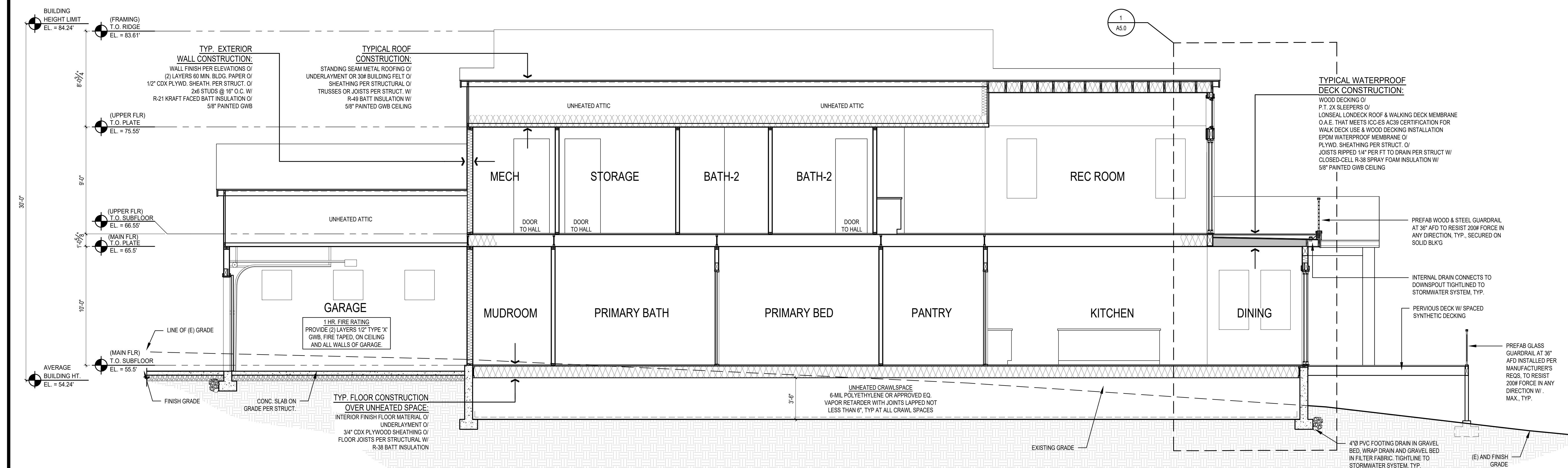
REVISIONS:
 2023-8-21 CORRECTIONS #1

DRAWN BY: KE
 CHECKED BY: BJS
 SHEET

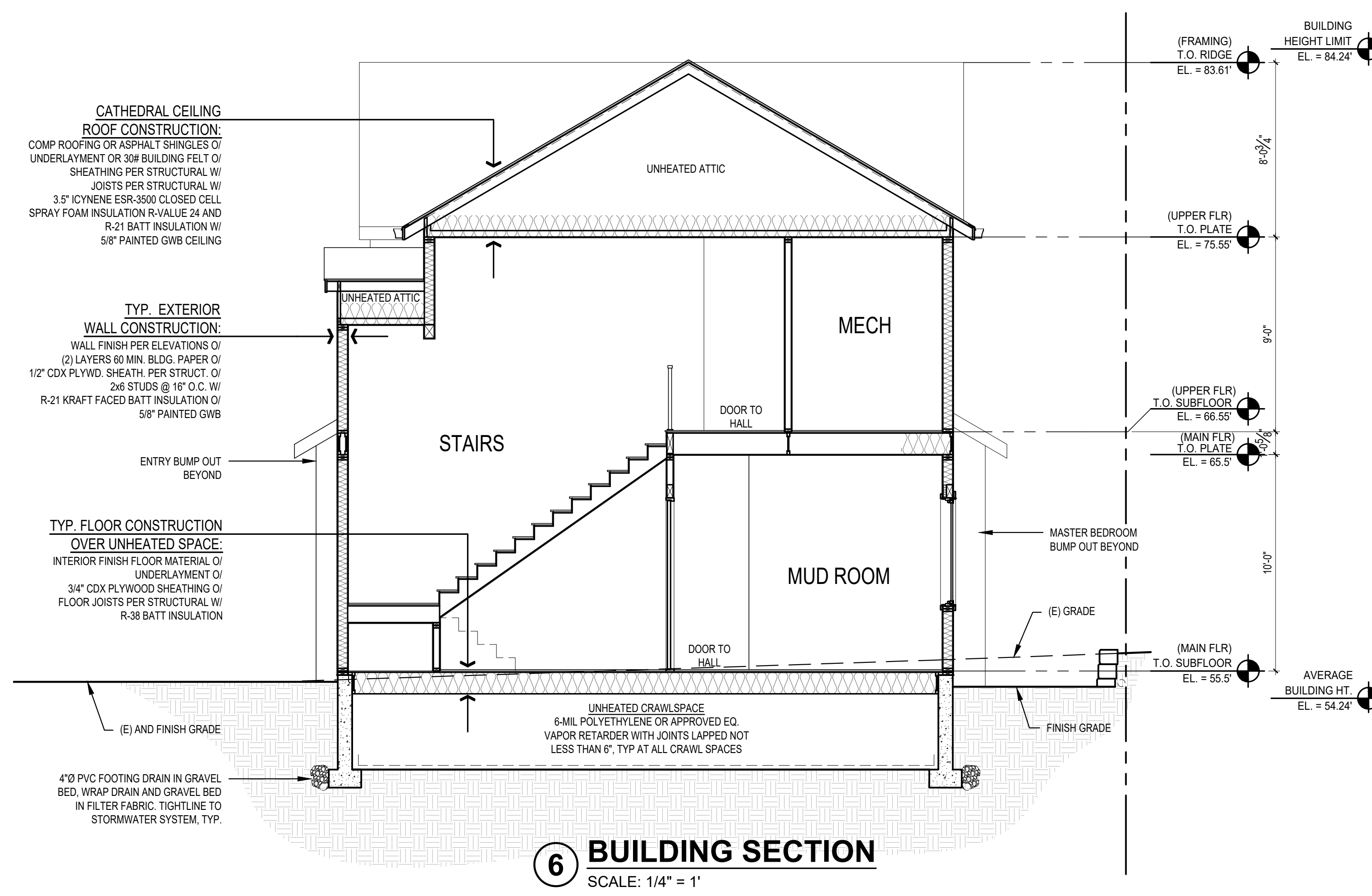
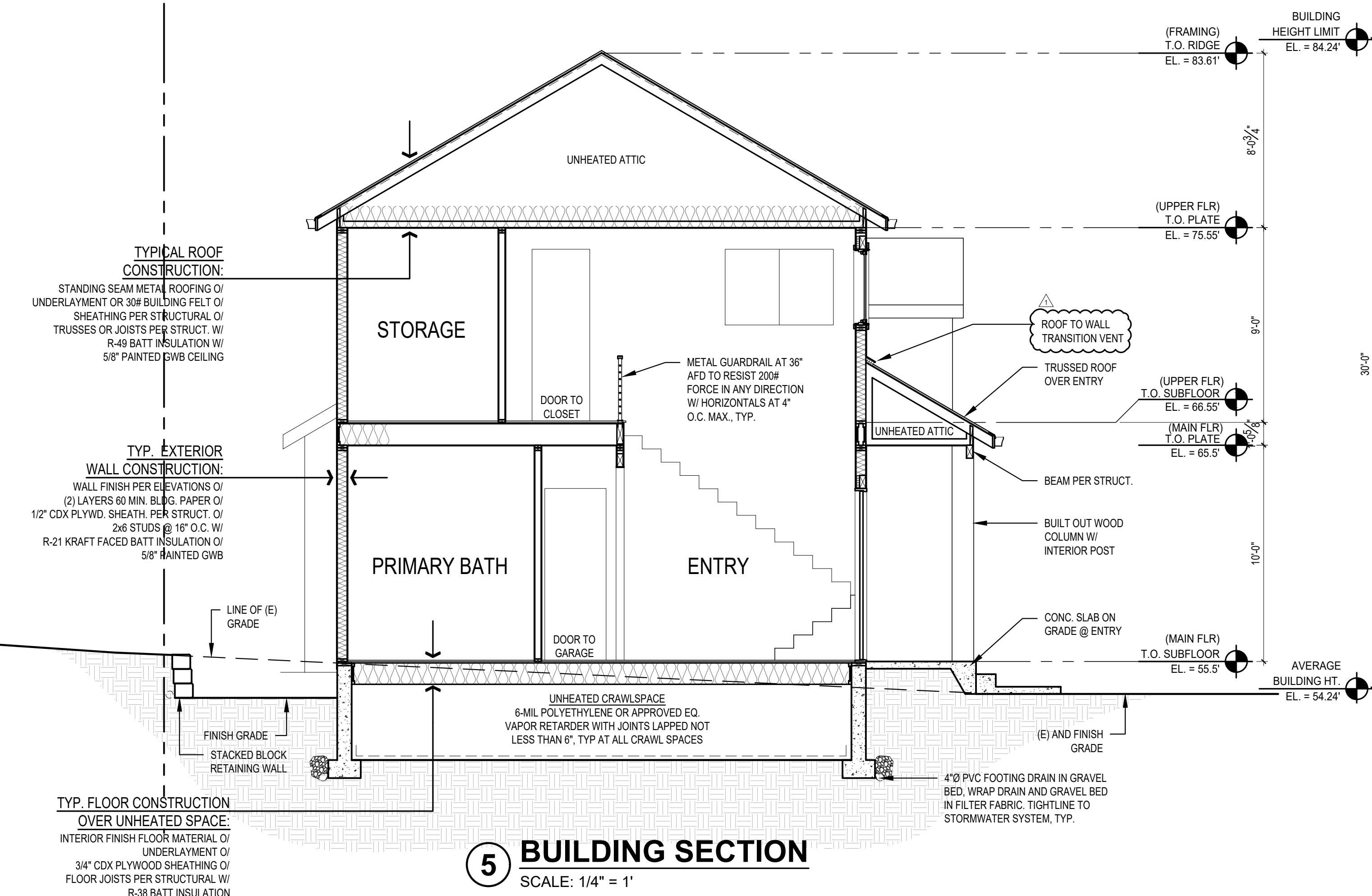
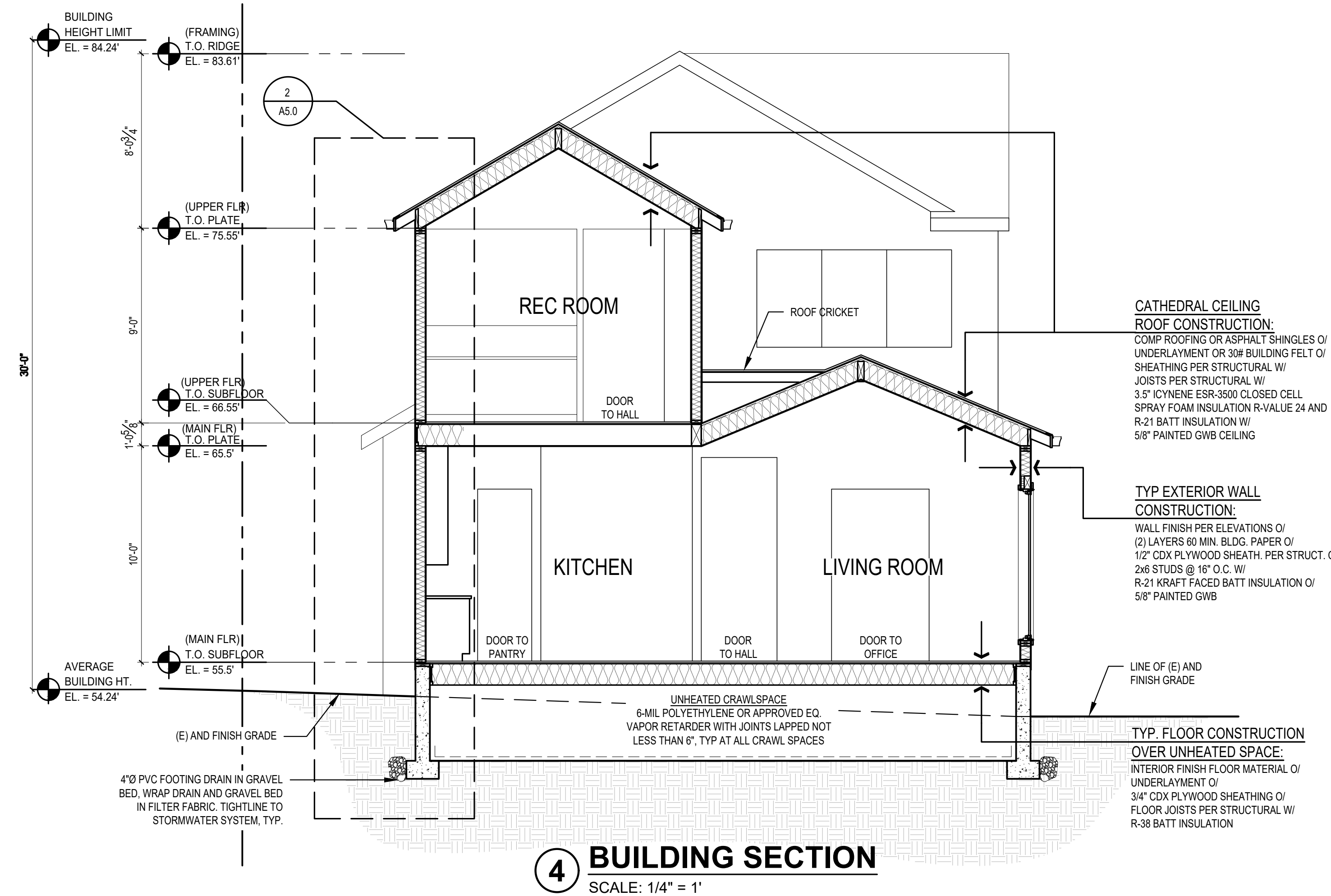
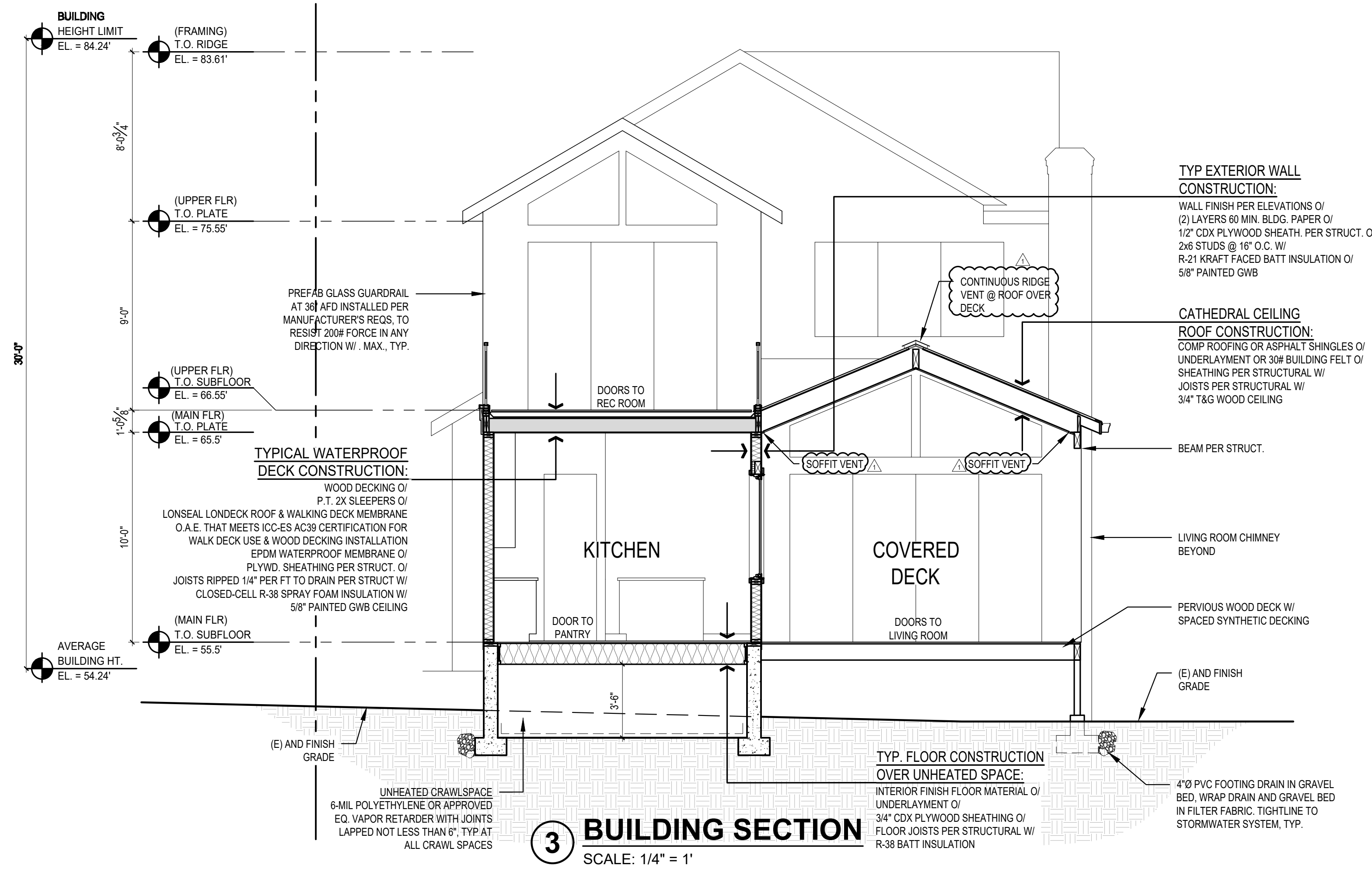
A3.1



1 BUILDING SECTION
 SCALE: 1/4" = 1'



2 BUILDING SECTION
 SCALE: 1/4" = 1'



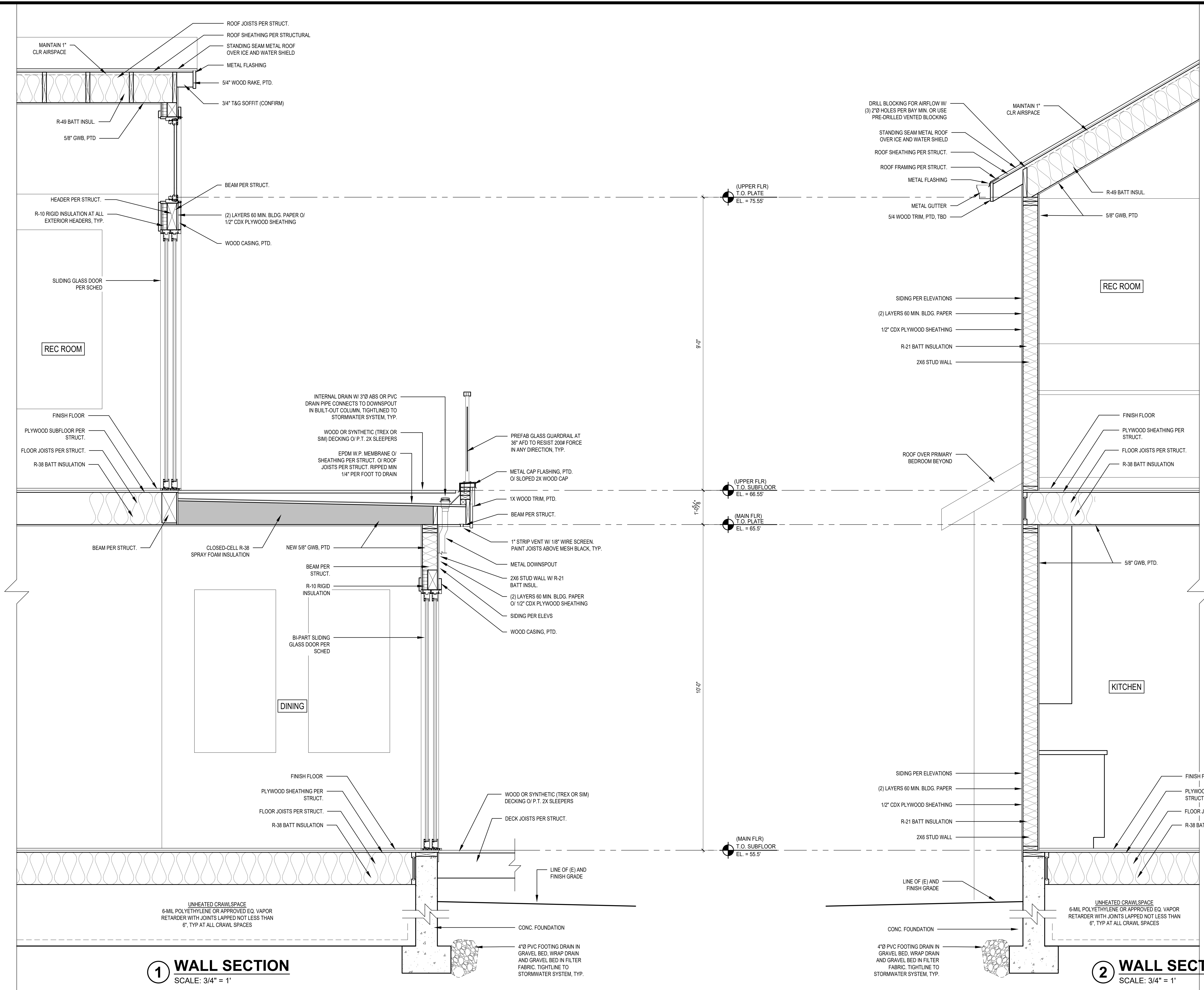
WALL SECTIONS

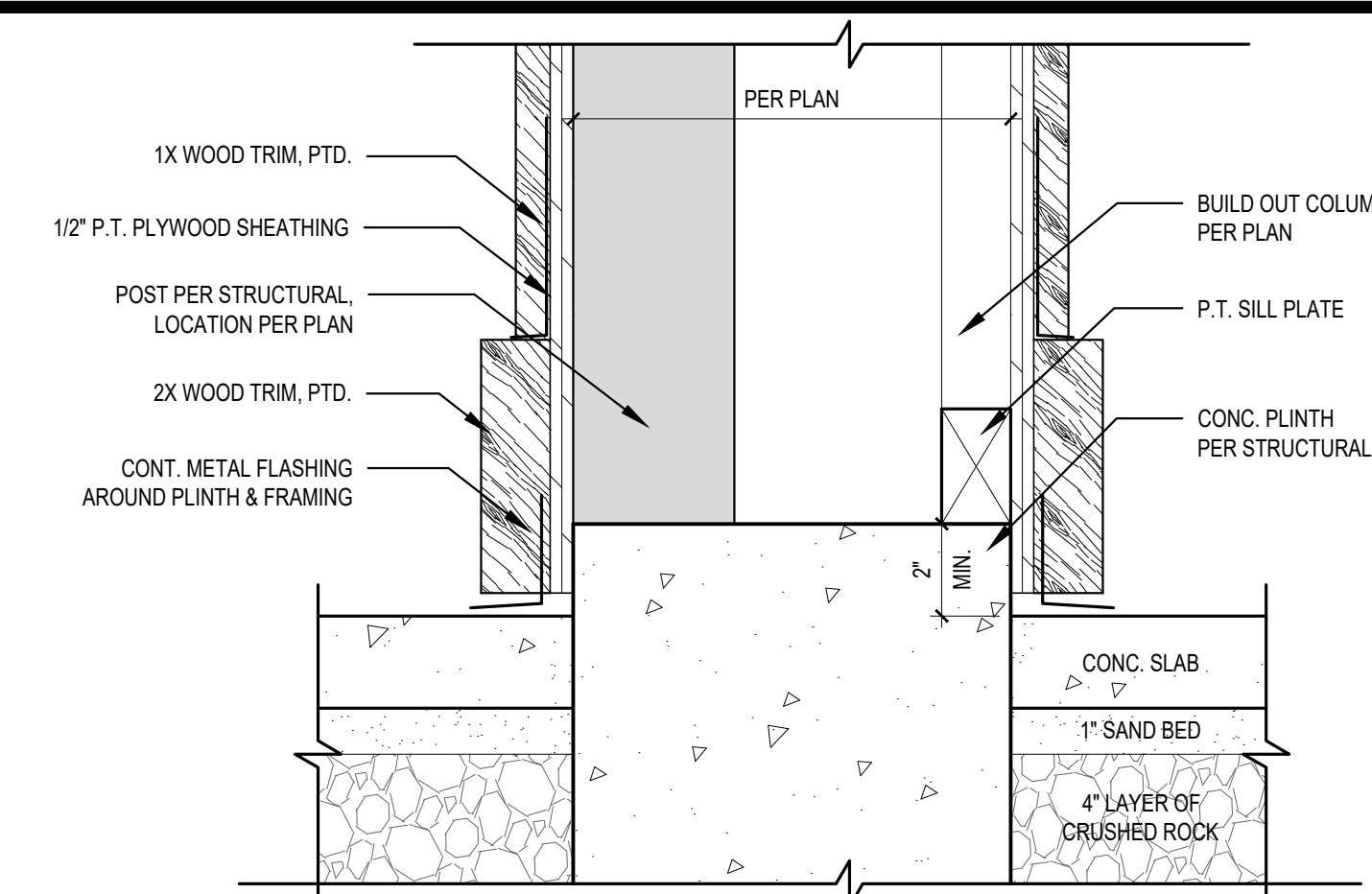
REVISIONS:	DATE	DESCRIPTION
2023-8-21		CORRECTIONS #1

DRAWN BY: KE
 CHECKED BY: BJS

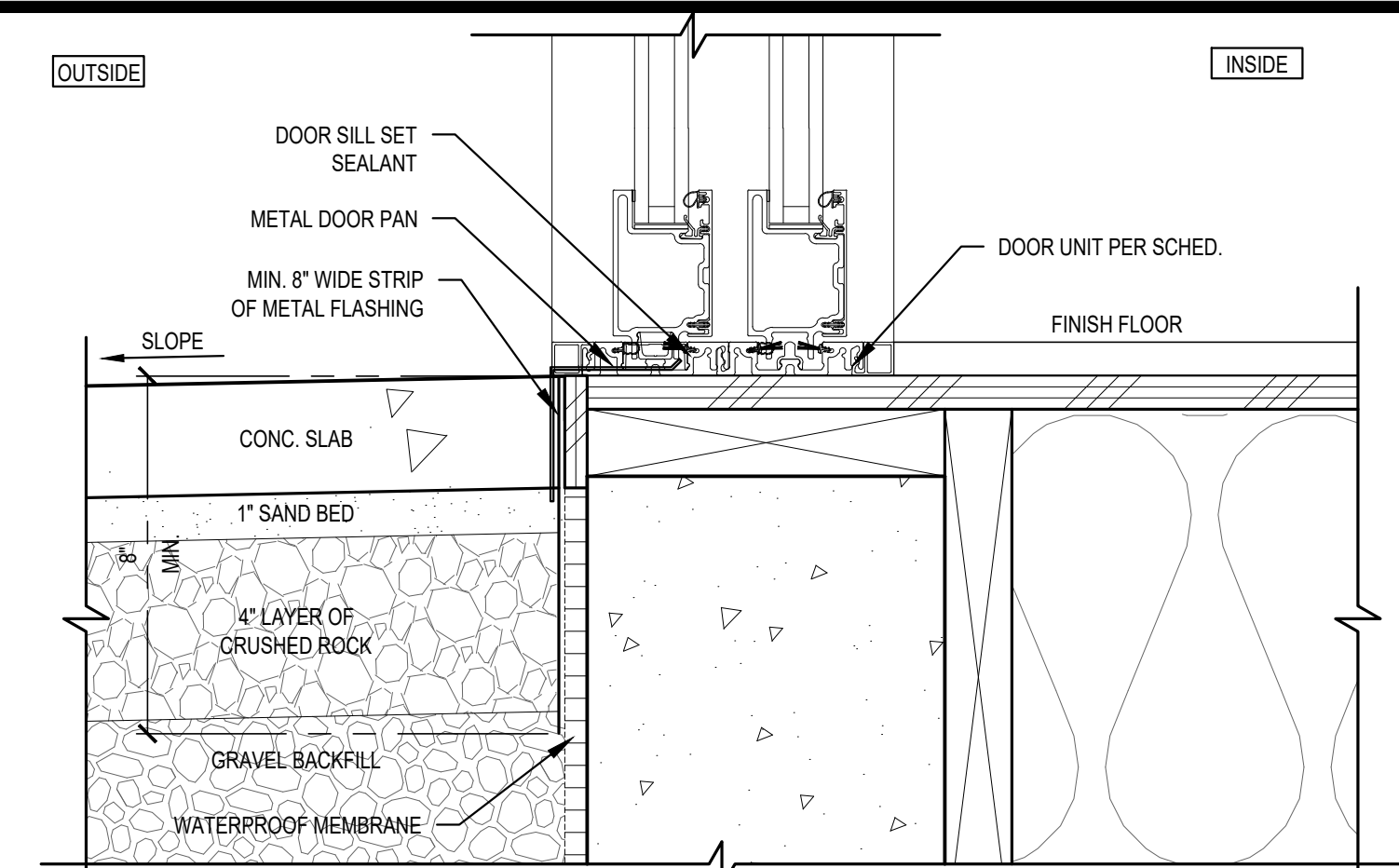
SHEET
A5.0

SCALE: IF SHEET IS LESS THAN 24" X 36", IT IS A REDUCED PRINT; REDUCE SCALE ACCORDINGLY
 PERMIT SET 08/21/23 PLOT DATE: 8/21/2023

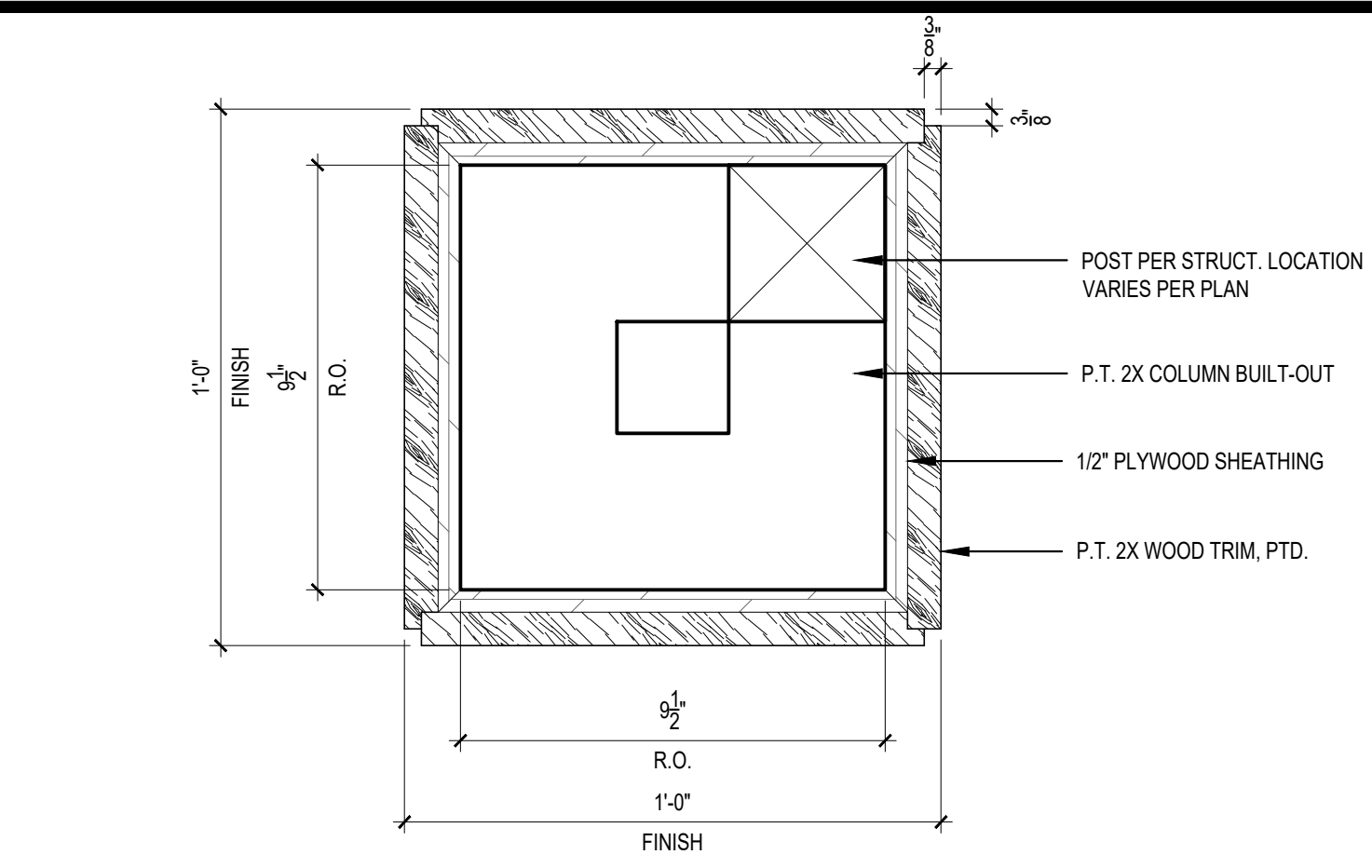




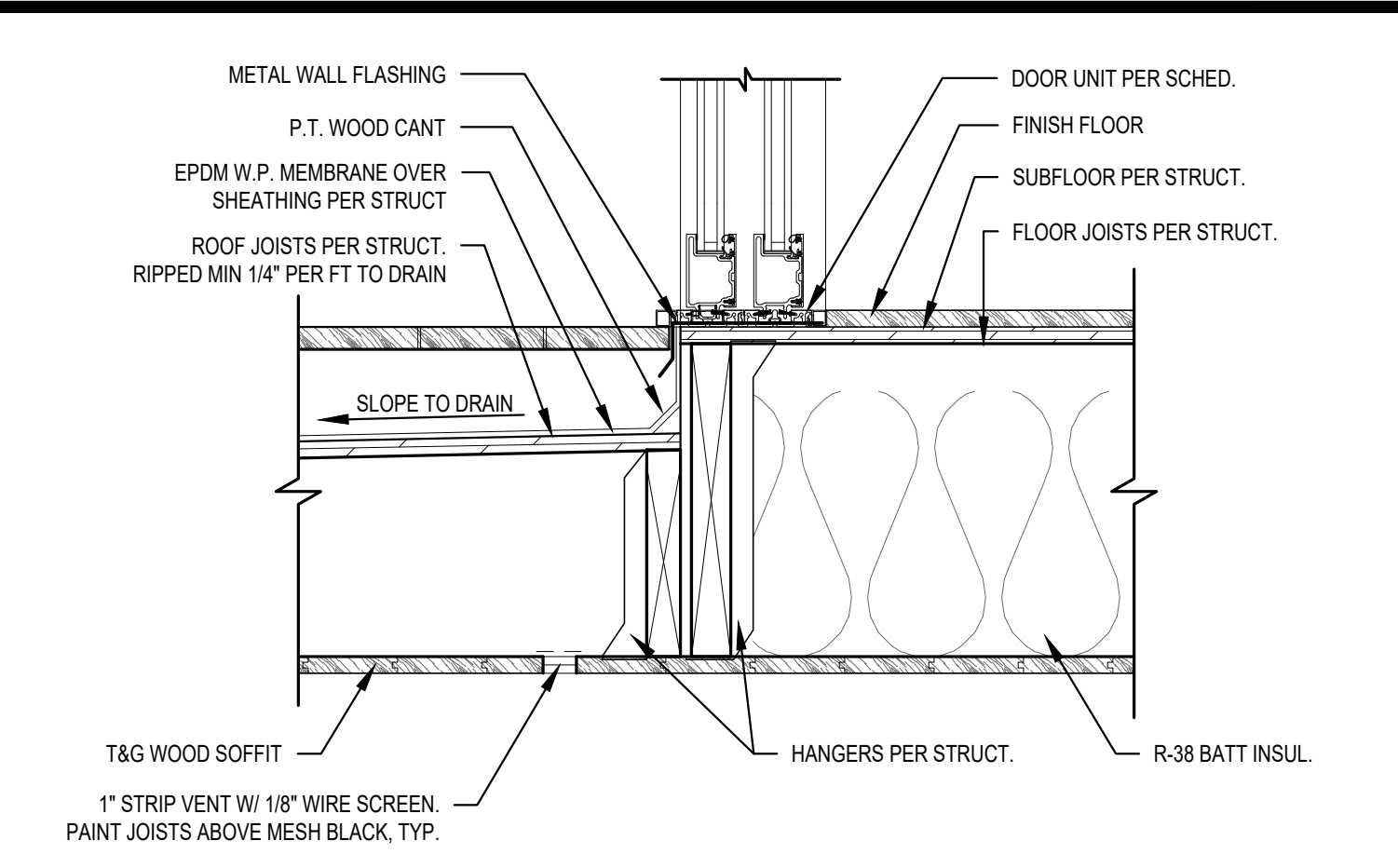
1 BUILT-OUT COLUMN CONC. PLINTH SECTION
SCALE: 3" = 1'-0"



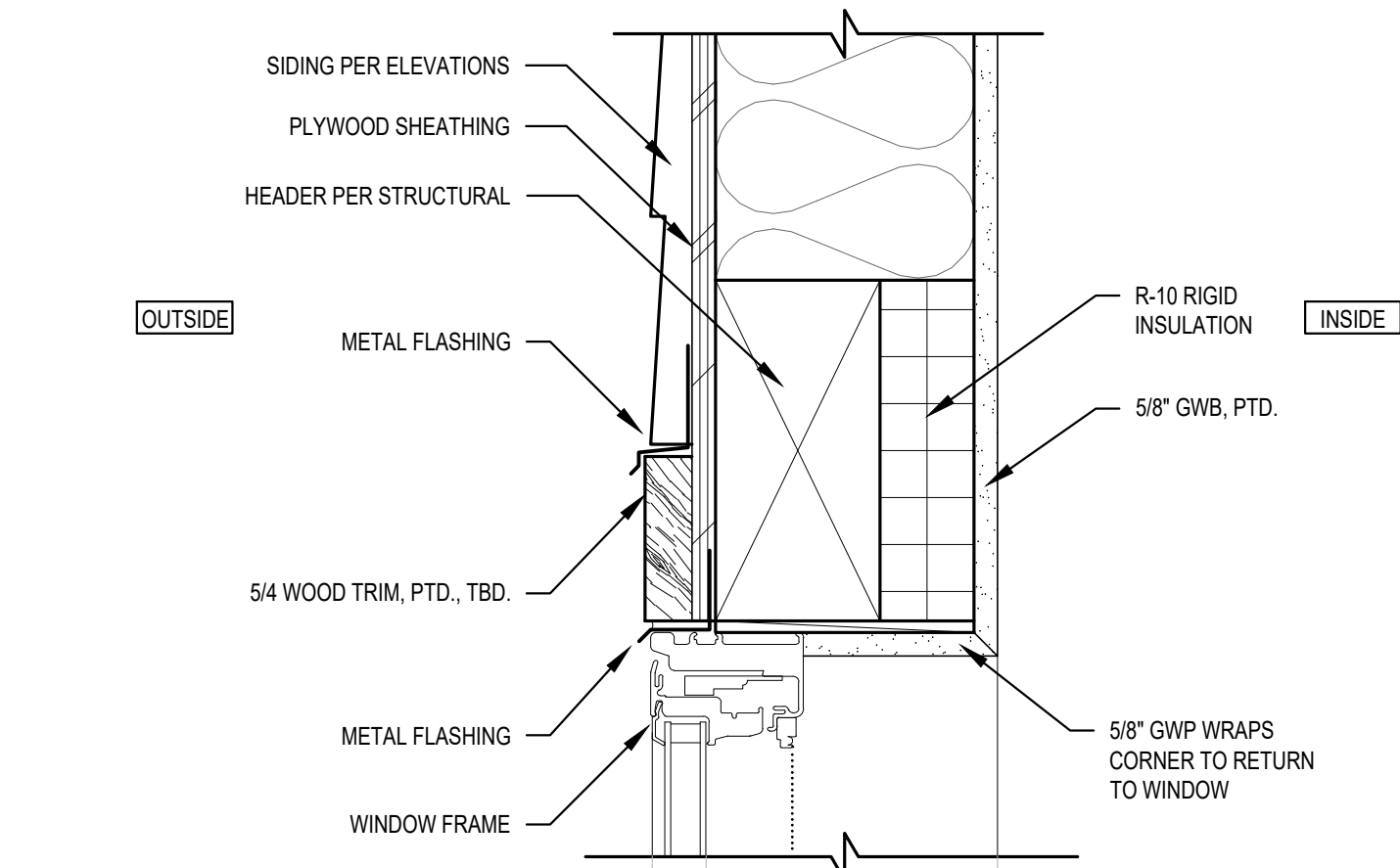
2 FLASHING DETAIL @ FLUSH THRESHOLD
SCALE: 3" = 1'-0"



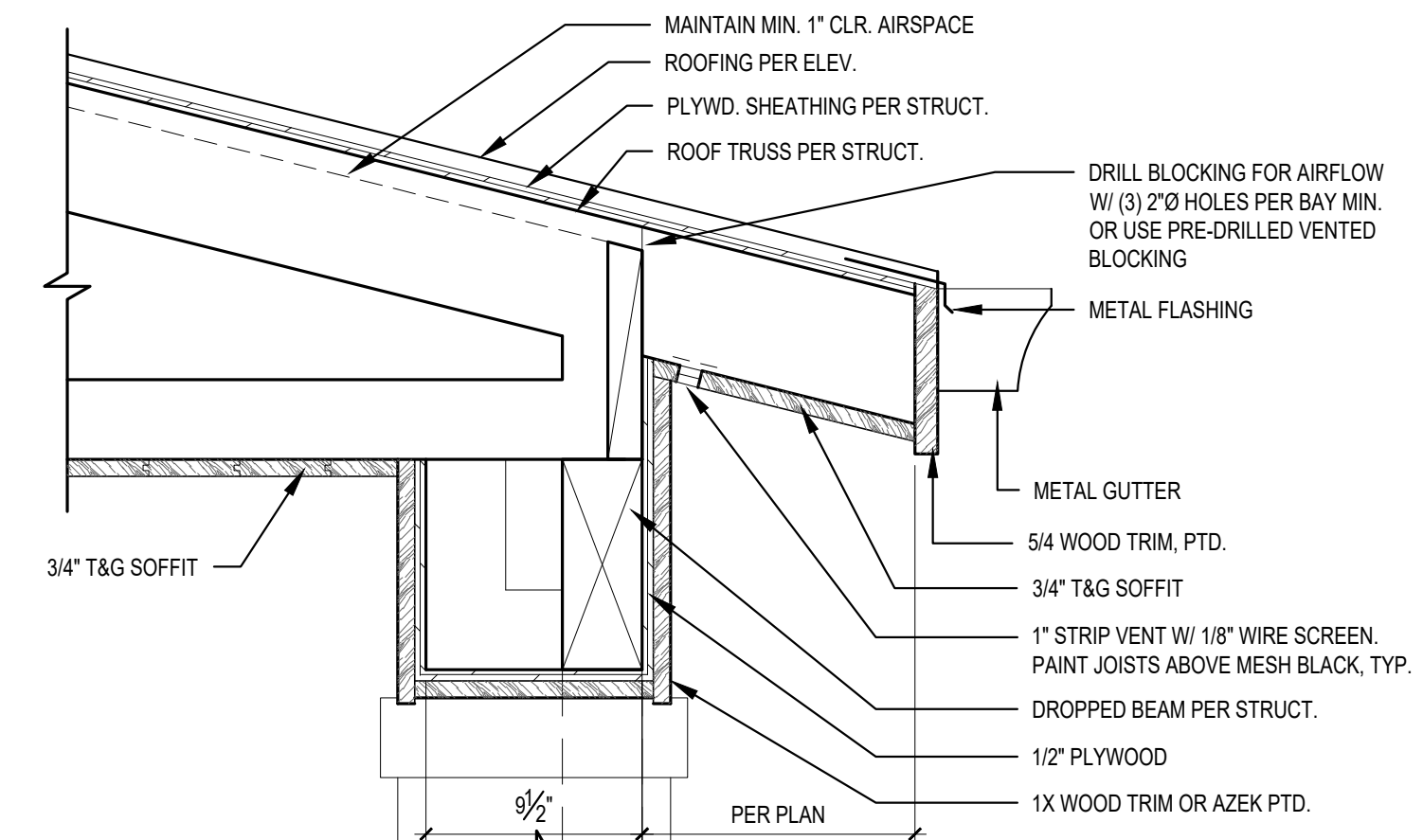
3 BUILT-OUT WOOD COLUMN PLAN
SCALE: 3" = 1'-0"



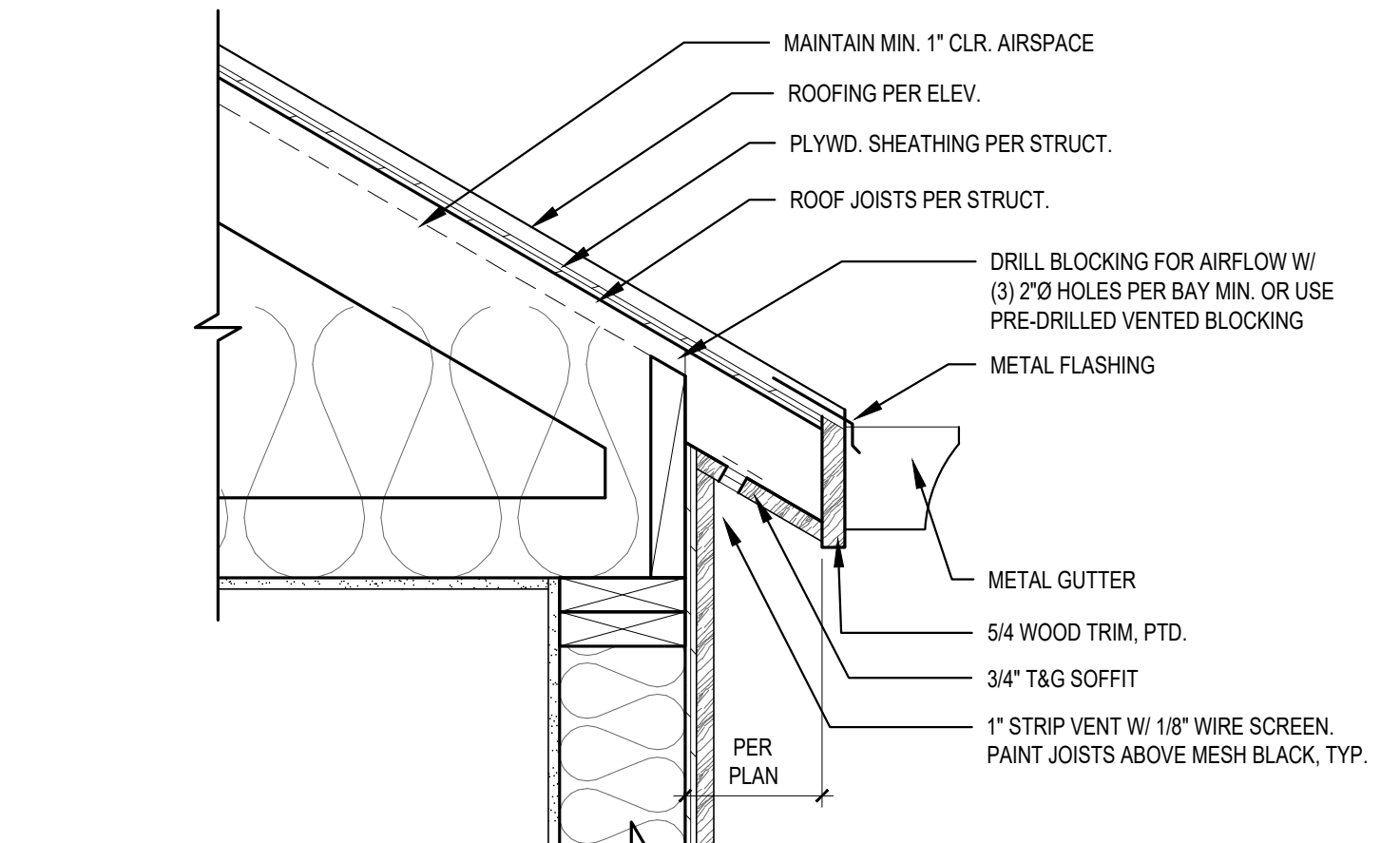
4 THRESHOLD @ DECK SECTION DETAIL
SCALE: 1-1/2" = 1'-0"



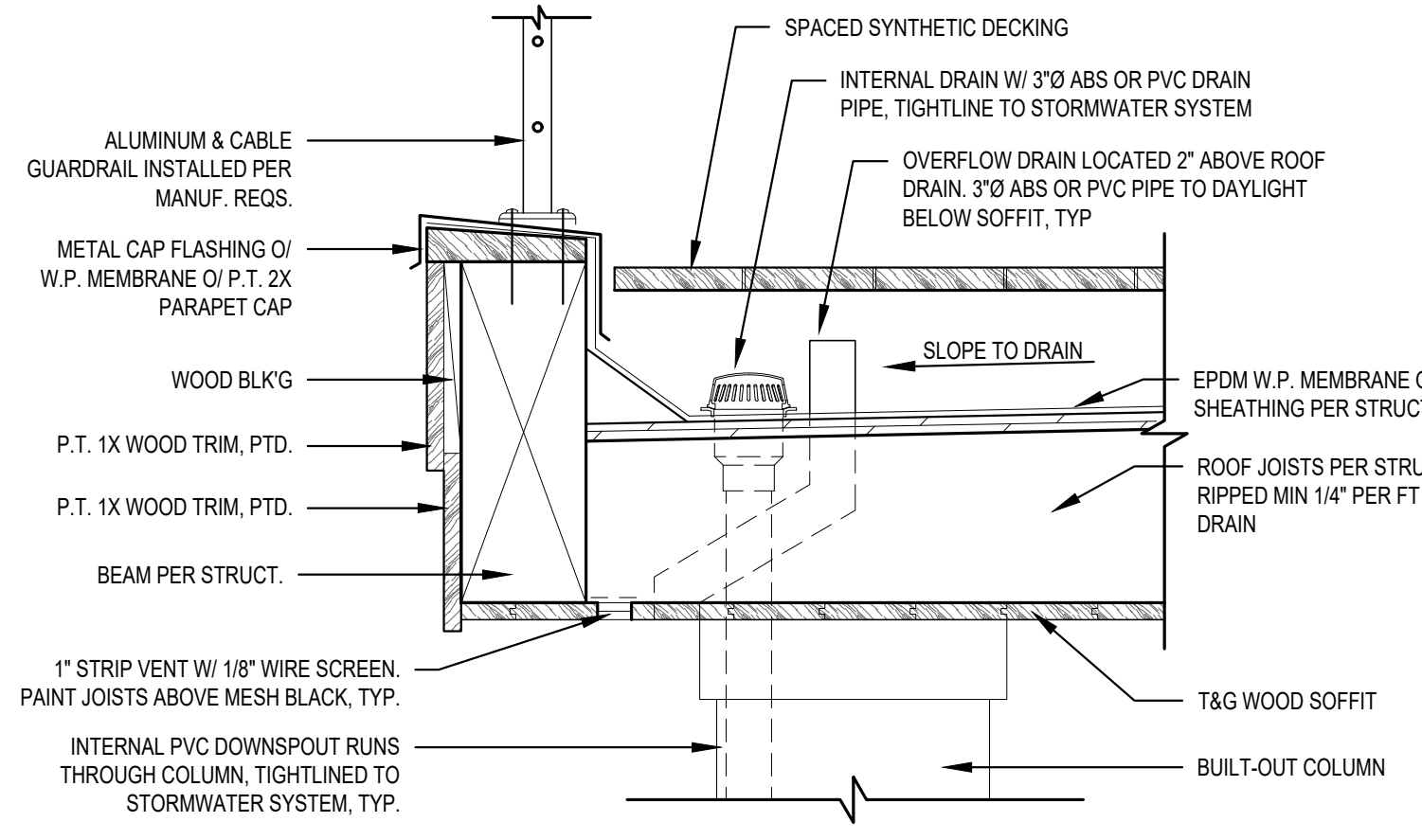
5 TYP. WINDOW HEAD DETAIL
SCALE: 3" = 1'-0"



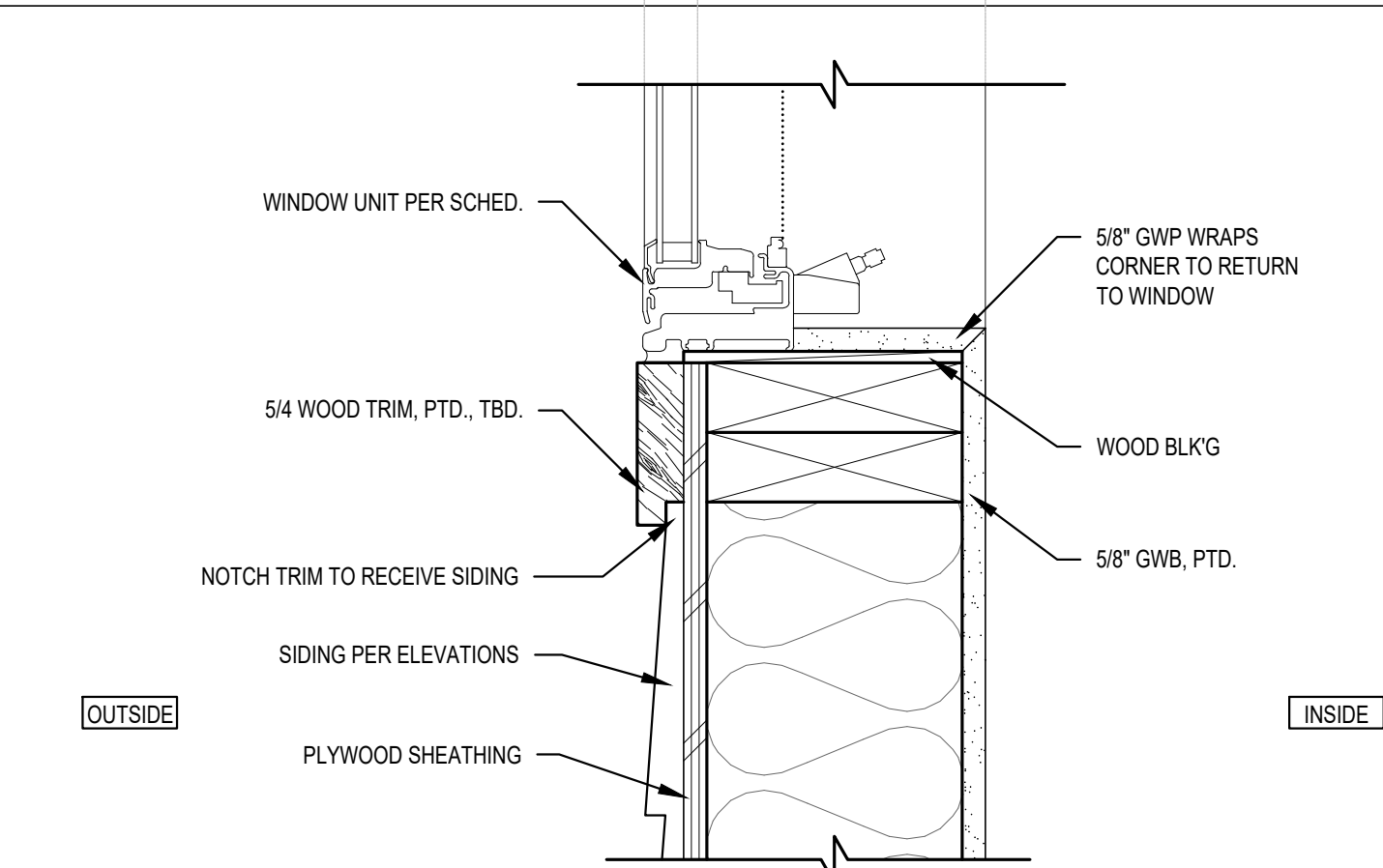
6 ENTRY ROOF EAVE DETAIL
SCALE: 1-1/2" = 1'-0"



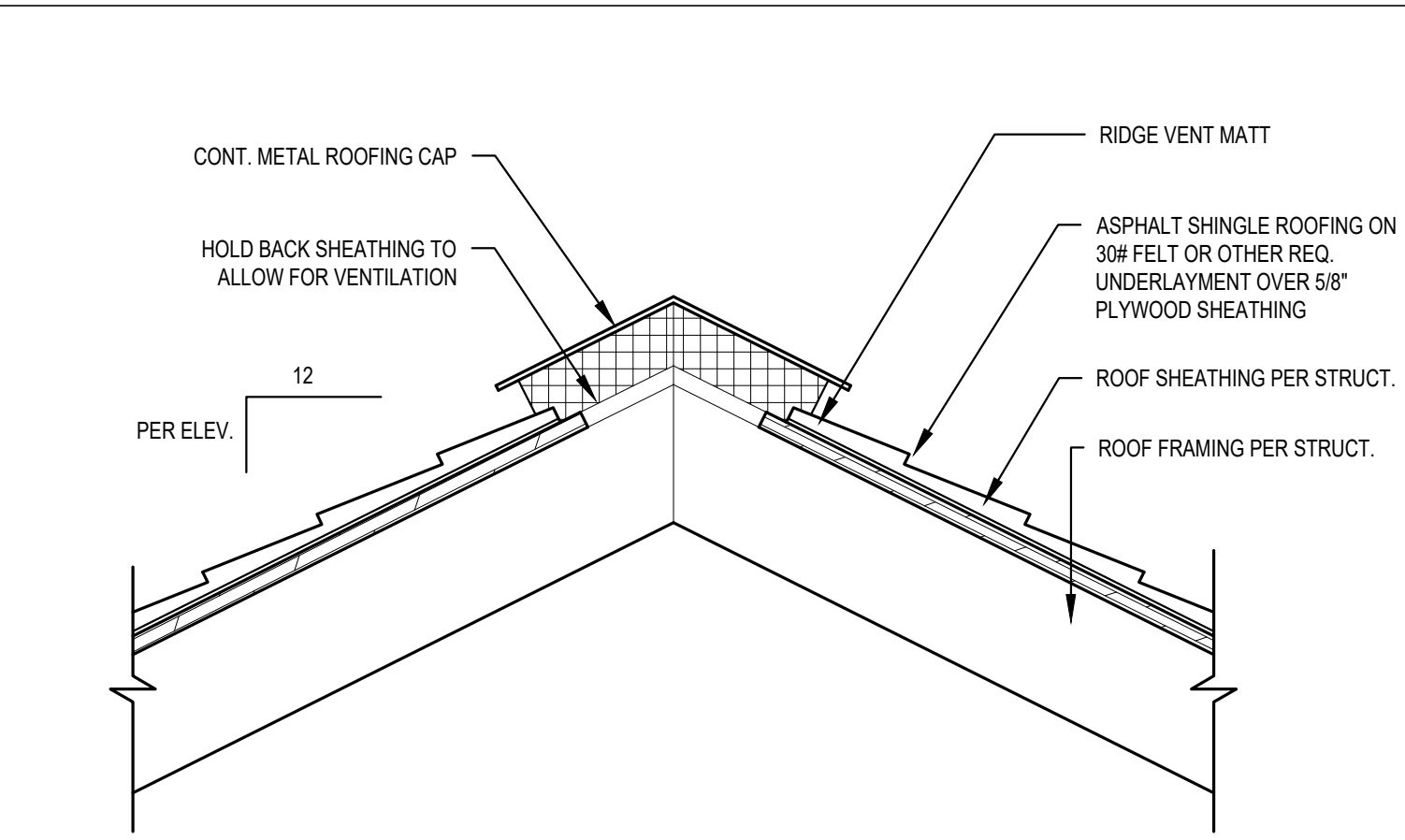
7 TYPICAL EAVE DETAIL
SCALE: 1-1/2" = 1'-0"



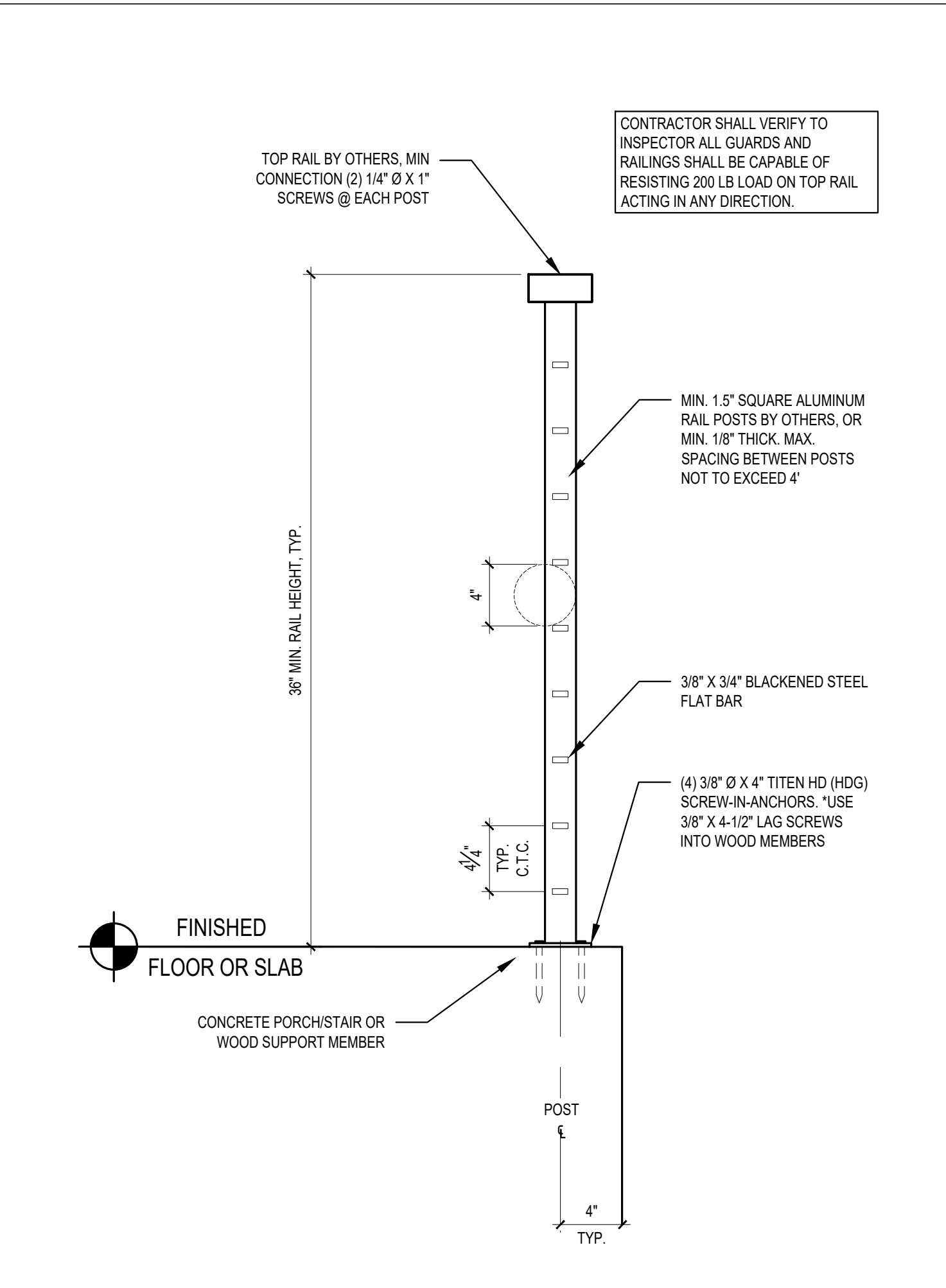
8 THRESHOLD @ DECK SECTION DETAIL
SCALE: 1-1/2" = 1'-0"



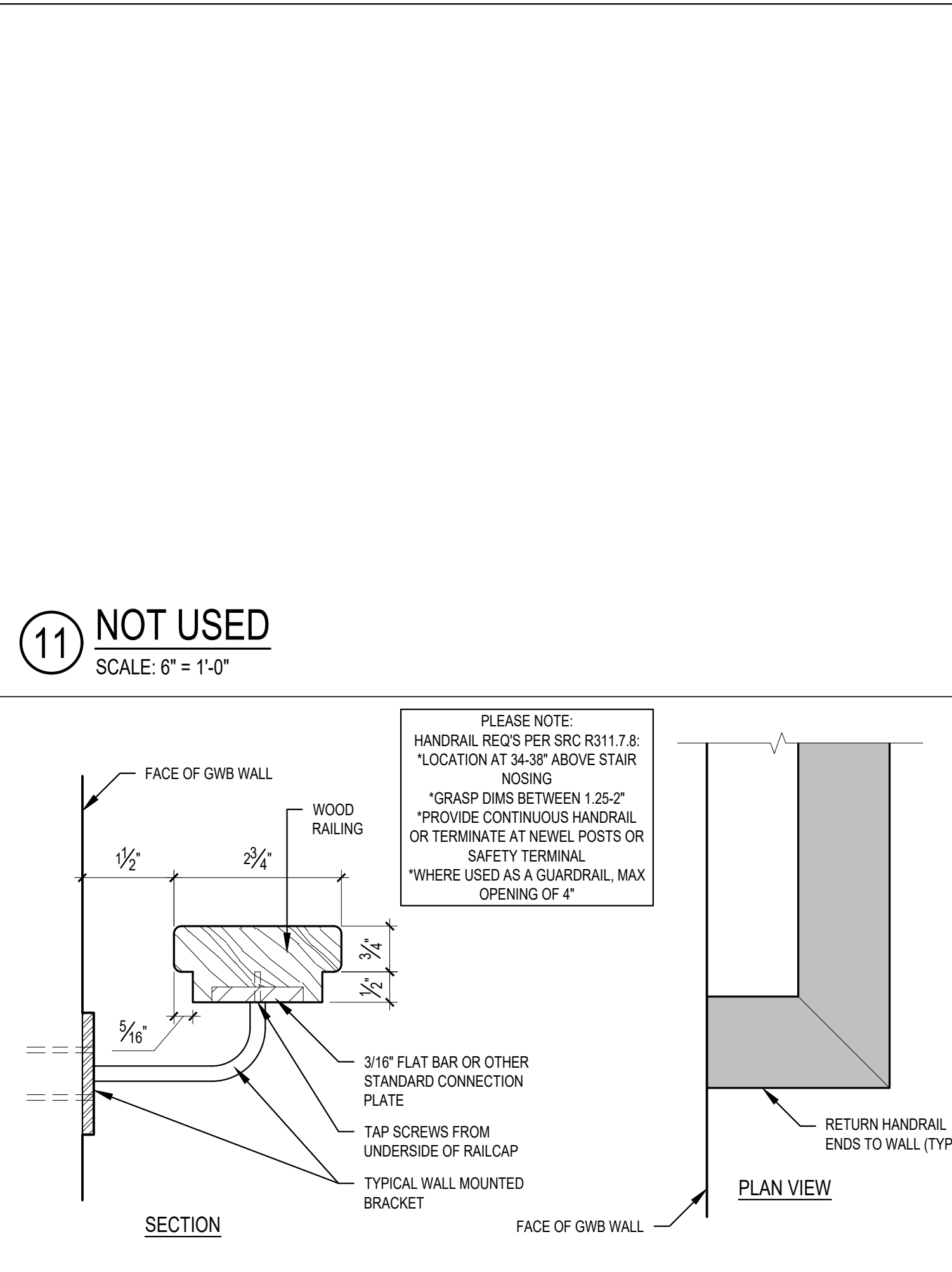
9 TYP. WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



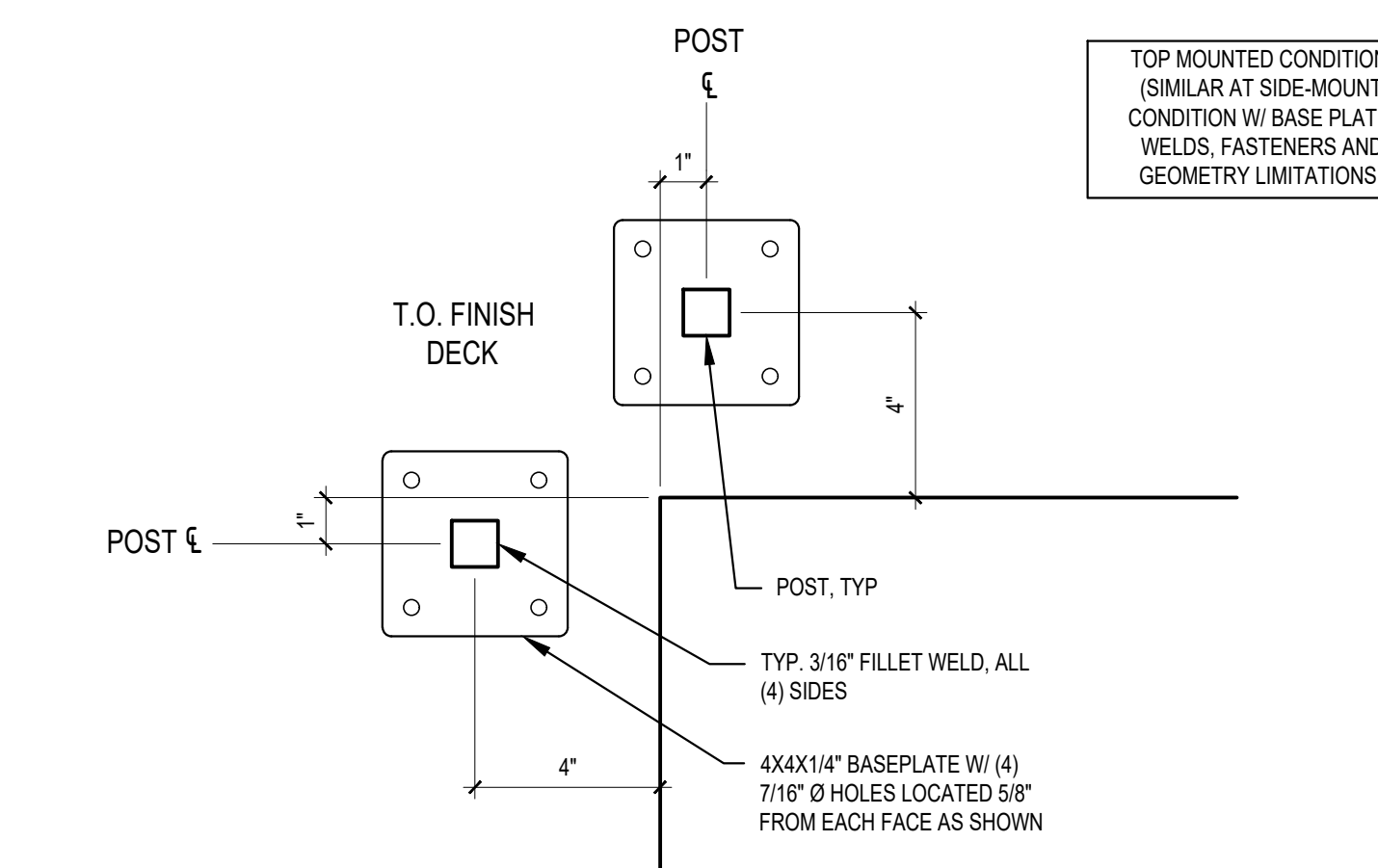
10 TYP. ROOF RIDGE VENT DETAIL
SCALE: 1 1/2" = 1'-0"



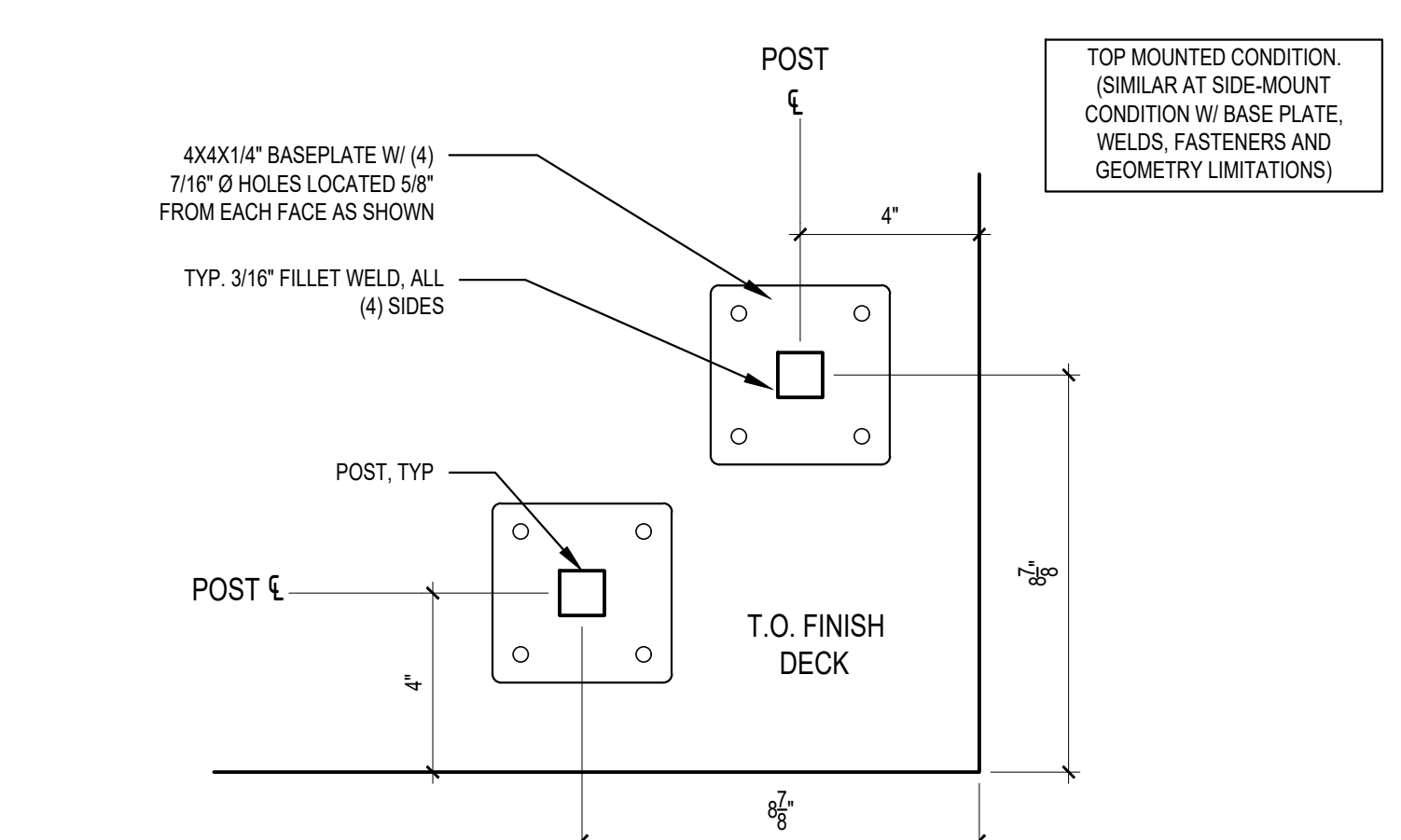
14 RAILING ATTACHMENT - TOP-MOUNTED
SCALE: 1-1/2" = 1'-0"



15 HANDRAIL DETAIL
SCALE: 6" = 1'-0"



12 GUARDRAIL PLATE ATTACHMENT
SCALE: 3" = 1'-0"



13 GUARDRAIL PLATE ATTACHMENT
SCALE: 3" = 1'-0"

REVISIONS:	
2023-8-21 CORRECTIONS #1	
DRAWN BY:	KE
CHECKED BY:	BJS
SHEET	

GENERAL NOTES

1.0 GENERAL

- 1.1 Construction shall conform to the 2018 INTERNATIONAL RESIDENTIAL CODE and all other requirements of authorities having jurisdiction.
1.2 These drawings are the property of O.G. Engineering, PLLC ("Engineer").
1.3 Refer to Architectural Plans for all dimensions and elevations not shown.
1.4 The contractor shall be solely responsible for jobsite and construction safety and compliance with all current safety regulations.
1.5 Utility information is not shown on these drawings.
1.6 All waterproofing and drainage information shown on these drawings is for illustrative purposes only.

2.0 DESIGN BASIS - BUILDING STRUCTURES

- 2.1 Vertical Loads (psf) Dead Live Snow
Truss Roof 19* 25
Slick-Framed Roof 18* 25
Roof Deck 18 60
Upper Floor 14 40
Main Floor 11 40
*Includes 4psf for solar-ready zones
2.2 Seismic Design Data (per the 2018 IBC)
Risk Category: II
Importance Factor: Ie=1.0
Site Coordinates: 47.5818°N, 122.2136°W
Mapped Spectral Response Acceleration: Ss=1.40, S1=0.49
Site Class: D (per Geotech Engr)
Spectral Response Coefficients: Sds=0.93
Seismic Design Category: D
Main Seismic Force-Resisting System: Wood Structural Panel Shear Walls
Response Modification Factor: R=6.5
Seismic Response Coefficient: Cs=0.14
Redundancy Factor: rho=1.3
Over-strength Factor: Omega=2.5
Analysis Procedure Used: Equivalent Lateral Force Procedure

- 2.3 Wind Design Data (per the 2018 IBC)
Risk Category: II
Basic Wind Speed: 98 mph
Exposure Category: C
Topographic Factor: 1.00 (Per Mercer Island Wind Load Map)

3.0 INSPECTIONS

The construction work shall be inspected as required by the SRC Section R106. The contractor is solely responsible for understanding the requirements of and coordinating all inspections, observations and testing and ensuring that all work is performed to the satisfaction of the inspector.

4.0 FOUNDATIONS

- 4.1 New foundations have been designed in accordance with recommendations in the Geotechnical Report.
* Allowable Vertical Bearing Pressures:
Dead + Live 2500 psf
Dead + Live + Short Term 3325 psf
* Sliding Resistance:
Passive Pressure 300 pcf
Sliding Friction Coefficient 0.4
4.2 All site preparation, grading, earthwork and site drainage, including but not limited to sub-grade preparation, foundation and retaining wall excavations, structural fill specifications, compaction requirements, and site drainage installation, shall be performed in accordance with the Geotechnical Report prepared by the Geotechnical Engineer, Geotech Consultants, Inc., dated March 3rd, 2022.

5.0 MATERIALS

5.1 Wood:

- 5.1.1 All 2x & 3x sawn lumber shall be Hem Fir grade number 2, and all 4x and larger lumber shall be Doug Fir grade number 1, U.O.N.
5.1.2 Engineered Wood Framing Members and I-Joists shall be TrusJoist® or approved equal.
5.1.3 Glulam framing members shall be DF/DF, stress class 24F-1.8E, combination symbol 24F-V8, U.O.N.
5.1.4 All wood framing members shall have 19% maximum moisture content at time of installation.

5.2 Concrete:

Hardrock, normal-weight concrete with a minimum 28-day compressive strength of 3,000 psi for concrete exposed to weather and 2,500psi for concrete not exposed to weather. Slump range shall be 3-5 inches. Maximum aggregate size shall be 1". Maximum water/cement ratio shall be 0.5. Concrete exposed to weather shall be air-entrained with total air content between 5%-7% of total concrete volume.

5.3 Reinforcing Steel Bars:

ASTM A615, Grade 60

5.4 Post-Installed Dowels & Anchors into Existing Concrete & CMU

Epoxy: Simpson SET-3G (Installed & inspected per ICC No. ESR-4057)

5.5 Bolts and Threaded Rods:

- 5.5.1 Threaded Rod: ASTM F1554 Grade 36
5.5.2 Sill Anchor Bolts: ASTM A307
Bent bar "J" anchor bolts shall have a hook with a 90-degree bend with an inside diameter of three bolt diameters, plus an extension of one and one half bolt diameters at the free end.
5.5.3 Bolts in Timber Connections: ASTM A307
5.5.4 Bolts in Steel Connections: ASTM A325-N (High-Strength)
5.6 Structural Steel:
Wide Flange (W): A992 (Fy = 50 ksi)
Rectangular Tube (HSS): A500 Gr. B (Fy = 46 ksi)
Plate and Bar: A36 (Fy = 36 ksi)

6.0 CONCRETE CONSTRUCTION

- 6.1 Concrete elements shall be constructed in single continuous pours, without construction joints, unless otherwise approved by the Engineer.
6.2 Reinforcement installation details, including rebar bends, hooks, splices and development lengths shall be in accordance with the requirements of IRC Section R608.5.4, U.O.N.
6.3 Concrete Coverage over Reinforcing Steel
Unless otherwise noted, maintain the minimum concrete cover to face of reinforcement or anchors as follows:
1) 3" Where concrete is cast against and permanently exposed to earth except slab on grade.
2) 2" Where concrete is exposed to earth but formed, or exposed to weather.
3) 1 1/2" Where concrete is not exposed to earth or weather.
6.4 Slabs on Grade
6.4.1 Crack Control Joints
Cut crack control joints in top of slab @10'-0"o.c. (max.) each way.
6.4.2 Slab Sub-Base
Slab sub-base shall be 8" to 12" clean, crushed drain rock, compacted to a firm and unyielding condition.

7.0 WOOD CONSTRUCTION

7.1 General Framing

Connections not specified on these drawings shall conform to the IRC fastening schedule, refer to Table R602.3(1). Depth of all posts in walls shall match stud depth, U.O.N.
7.2 Engineered Wood Framing
See TrusJoist "Installation Guide for Floor and Roof Framing" (TJ-9001) for allowable holes in engineered wood beams.
7.3 Fasteners
Nails specified on these drawings are common nails, U.O.N.
7.4 Connectors
Connectors specified on these drawings are manufactured by the SIMPSON STRONG-TIE® Company.
7.5 Wood Structural Panels
WSPs shall bear the APA trademark and shall meet the requirements of the latest edition of USDOC PS1 or PS2.
7.6 Shear Walls and Exterior Wall Sheathing
7.6.1 Shear walls are noted on the plans.
7.6.2 WSP Wall Nailing, U.O.N.:
Panel Edge Nailing: 10d@6"o.c. maximum.
Intermediate (Field) Nailing: 10d@12"o.c. maximum.
7.6.3 All new exterior walls not called out as shear walls shall be sheathed on their exterior face with 1/2" APA RATED SHEATHING, EXPOSURE 1 WSPs with a span rating of 32/16 and nailing per note 7.6.2., U.O.N.
7.7 Holdowns and Tiedown Straps
Holdowns and tiedown straps shall be attached to double studs or min. 4x posts, U.O.N.
7.8 Sill Anchor Bolts
There shall be a minimum of two sill anchor bolts per piece with one bolt located not more than 12" or less than 4 1/2" from each end of each piece.

7.9 Floor and Roof Sheathing

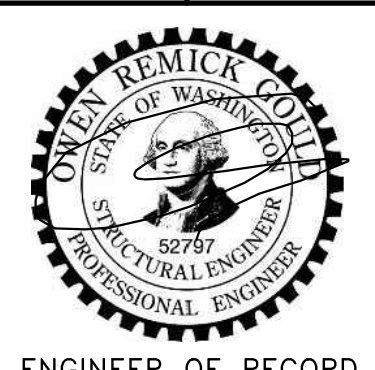
- 7.9.1 Wood structural panel sheets at floors and roofs shall be laid with strength axis perpendicular to supports and continuous over two or more spans, unless otherwise noted on drawings.
7.9.2 Unless otherwise noted, typical roof sheathing shall be unblocked 5/8" APA RATED SHEATHING, EXPOSURE 1 WSPs with a span rating of 40/20.
7.9.3 Unless otherwise noted, typical floor sheathing shall be unblocked 3/4" APA RATED STURD-I-FLOOR EXPOSURE 1 WSPs with a span rating of 48/24 and T&G edges.
7.10 Metal-Plate-Connected Wood Trusses
7.10.1 The design, manufacture and installation of trusses shall be in accordance with the requirements of ANSI/TPI 1 and the IRC Section R502.11.
7.10.2 Trusses, structural fascia, their connections to other trusses/fascias, and truss eave blocking are the design responsibility of the supplier, and shall be designed by a civil or structural engineer licensed in the State of Washington.
Vertical Roof Loads - Top Chord
*Dead: 15 psf (Does not include truss self-weight)
*Snow: 25 psf
*Wind: -51 psf (uplift)
Vertical Ceiling Loads - Bottom Chord
*Dead: 5 psf (Does not include truss self-weight)
*Live: 10 psf (Does not act concurrently with roof live load)
Lateral Drag Truss Loads
Drag trusses shall be designed for a uniform unfactored seismic load acting longitudinally along the entire top chord length, and for either a longitudinal reaction acting at the location at which the bottom chord is tied to the adjacent collector element, or a longitudinal uniform load along the contact length between the drag truss and shear wall below.

ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes terms like ADJ. ADJACENT, ARCH. ARCHITECT, DIM. DIMENSION, etc.

PERMIT SET stamp with fields for PROJECT, CLIENT, REVIEWER, DATE, and DESCRIPTION.

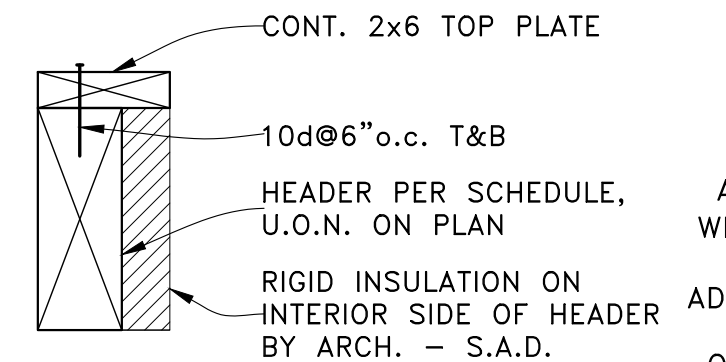
PROJECT: NEW SINGLE-FAMILY DWELLING
CLIENT: Mary Smeresh
2423 60th Ave SE
Mercer Island, WA 98040



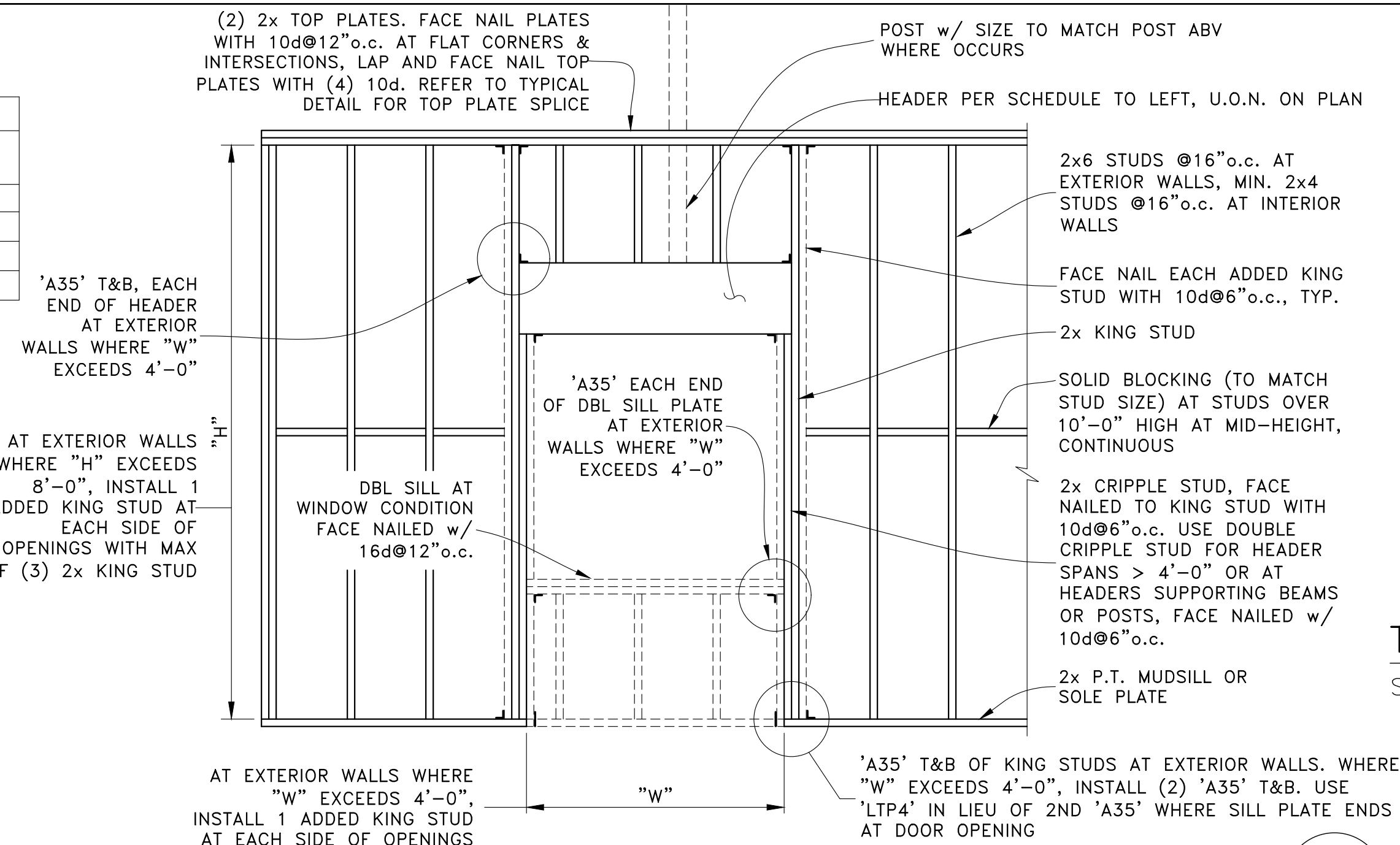
O.G. ENGINEERING, PLLC
3201 1st Ave S, Suite 101, Seattle, WA 98134
(206) 290-4608
ogent@ogengineer.com

GENERAL NOTES
SCALE: AS NOTED
SHEET NO. 51
JOB NO. 22004

HEADER SCHEDULE, U.O.N.	
"W" MAX. OPENING	MIN. HEADER
4'-0"	4x6
6'-0"	4x8
8'-0"	4x10
10'-0"	4x12

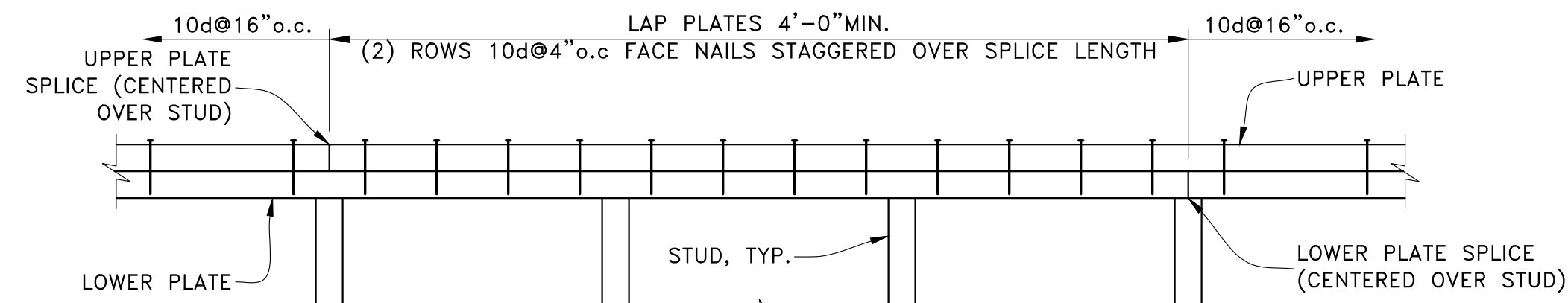


EXTERIOR HEADER @ 2x6 WALLS



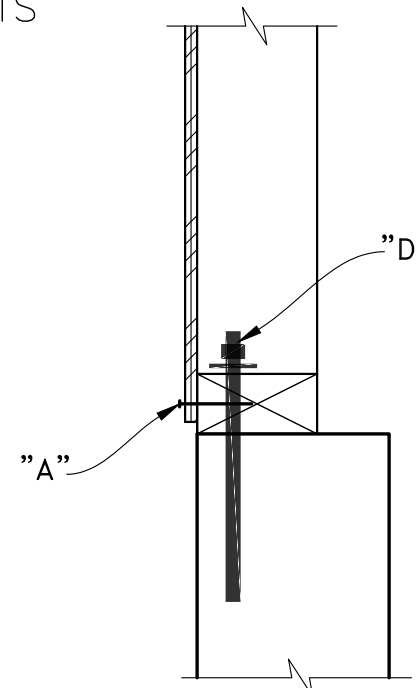
TYPICAL STUD WALL FRAMING

SCALE: NTS

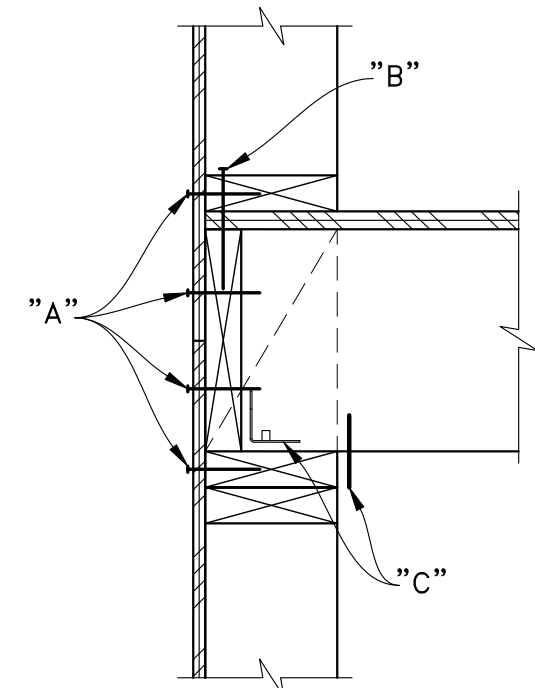


TYPICAL DOUBLE TOP PLATE SPLICE

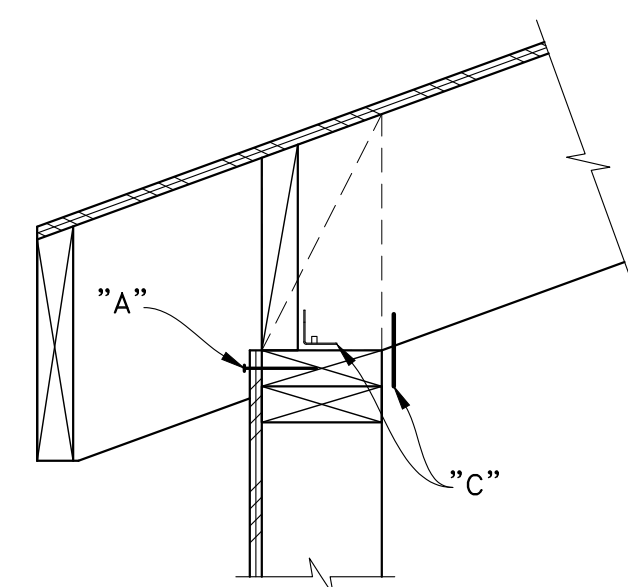
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FOUNDATION LEGEND



UPPER FLOOR LEGEND



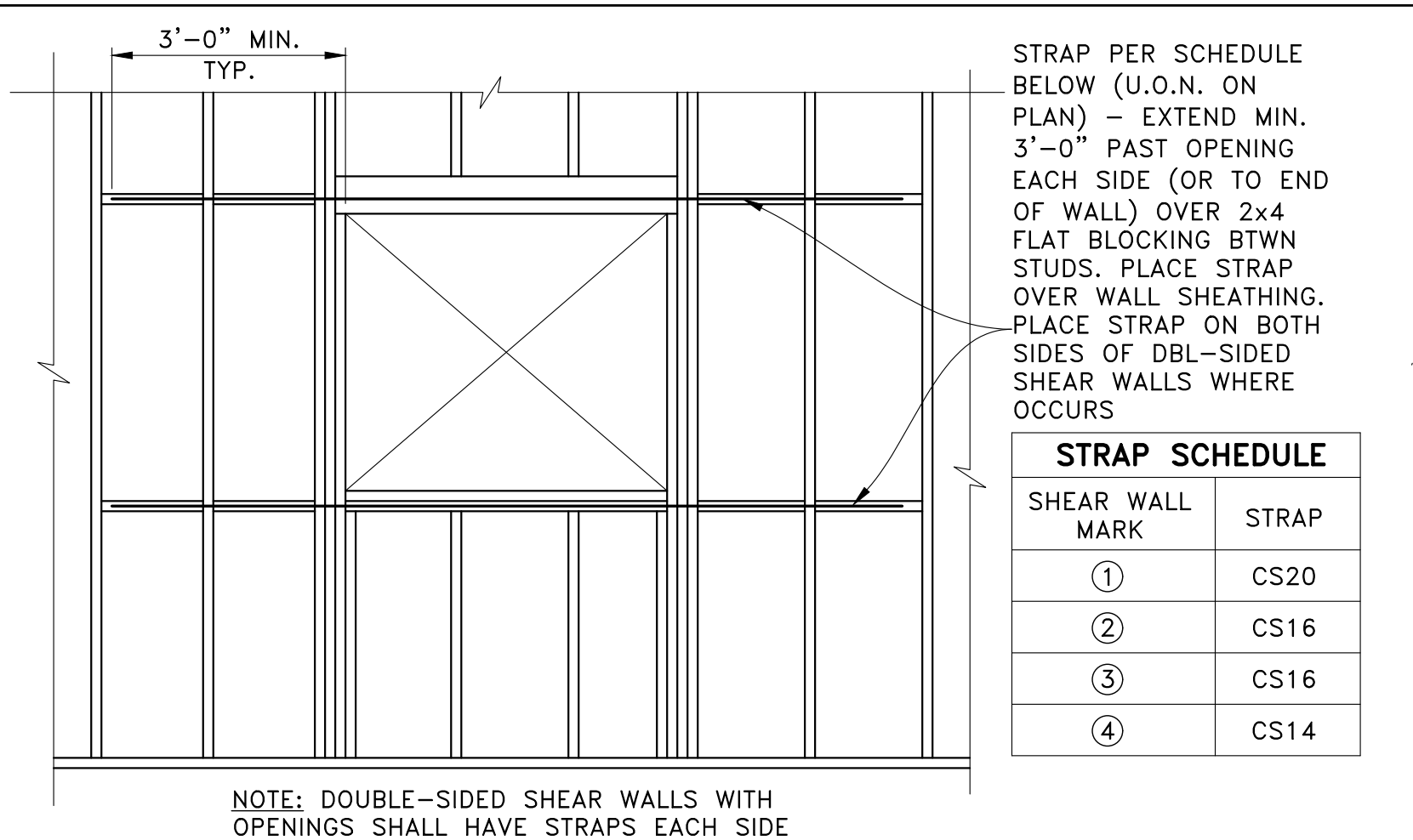
ROOF LEGEND

SHEAR WALL SCHEDULE (1/2" SHEATHING-RATED WOOD STRUCTURAL PANELS)						
SHEAR WALL MARK	CAPACITY (PLF)	EDGE NAILING "A"	FIELD NAILING	FRAMING AT ADJOINING PANEL EDGES	SOLE PLATE FASTENERS "B"	FRAMING CLIPS "C"
①	310	10d@6" o.c.	10d@12" o.c.	2x NOMINAL	'SDS25600' @ 8" o.c. ⁴	'A34' OR 'LTP4' @ 16" o.c. ⁵
②	460	10d@4" o.c.	10d@12" o.c.	2x NOMINAL	'SDS25600' @ 8" o.c. ⁴	'A34' OR 'LTP4' @ 8" o.c. ⁵
③	600	10d@3" o.c. ¹	10d@12" o.c.	3x OR 2-2x NOMINAL ³	'SDS25600' @ 8" o.c. ⁴	'A34' OR 'LTP4' @ 8" o.c. ⁵
④	770	10d@2" o.c. ¹	10d@12" o.c.	3x OR 2-2x NOMINAL ³	'SDS25600' @ 4" o.c. ⁴	'A34' OR 'LTP4' @ 8" o.c. ⁵
DBL SIDED ②	920	10d@4" o.c. ¹	10d@12" o.c.	3x OR 2-2x NOMINAL ³	'SDS25600' @ 4" o.c. ⁴	'A34' OR 'LTP4' @ 4" o.c. ⁵
DBL SIDED ③	1200	10d@3" o.c. ¹	10d@12" o.c.	3x OR 2-2x NOMINAL ³	'SDS25600' @ 4" o.c. ⁴	'A34' OR 'LTP4' @ 4" o.c. ⁵
DBL SIDED ④	1540	10d@2" o.c. ¹	10d@12" o.c.	3x OR 2-2x NOMINAL ³	'SDS25600' @ 3" o.c. ⁴	'A34' OR 'LTP4' @ 4" o.c. ⁵

- NOTES
- 1) STAGGER ROWS OF EDGE NAILING 1/2" APART. ON DBL SIDED WALLS, STAGGER EDGE NAILS ON PANELS ON OPPOSITE SIDES OF WALL.
 - 2) NAILING TO ALL INTERMEDIATE FRAMING MEMBERS IN FIELD OF PANEL
 - 3) PANEL EDGE NAILING SHALL BE STAGGERED. 2-2x FRAMING MEMBERS SUPPORTING PANEL EDGES SHALL BE FACE NAILED WITH 10d, SPACING TO MATCH PANEL EDGE NAILING, STAGGERED. STAGGER PANEL EDGES IN OPPOSITE PANELS MIN. 2'-0" APART ON DBL SIDED SHEAR WALLS.
 - 4) SCREWS SHALL HAVE MIN. 2" PENETRATION INTO RIM JOIST/ BLOCKING - USE LONGER SCREWS IF NECESSARY.
 - 5) FRAMING CLIPS ARE ONLY REQUIRED WHERE SPECIFIED ON FRAMING DETAILS.
 - 6) SEE GENERAL NOTES 7.6 & 7.8 FOR MORE INFORMATION.

SHEAR WALL SCHEDULE (S.W.S.)

SCALE: NTS

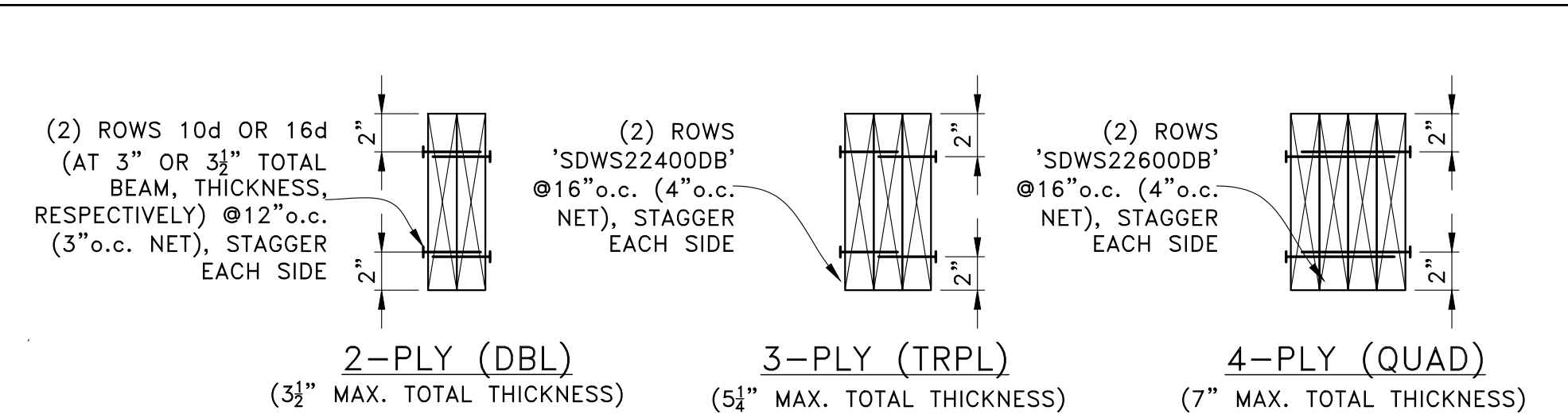


TYPICAL SHEARWALL STRAP AROUND OPENINGS

SCALE: NTS

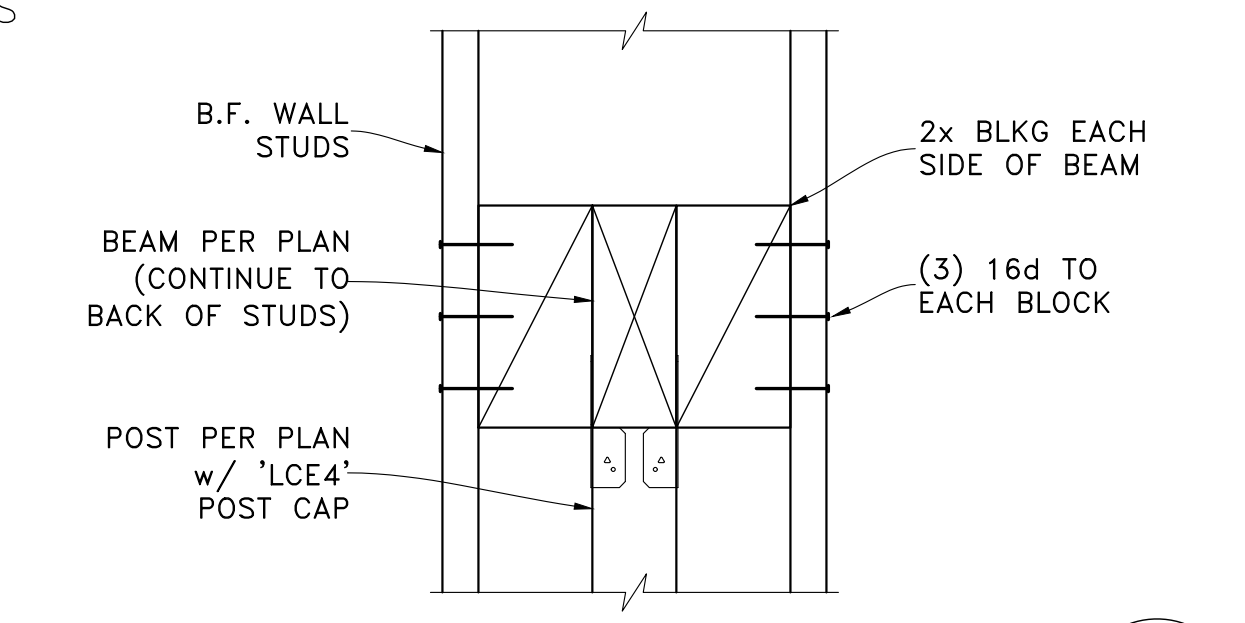
STRAP PER SCHEDULE BELOW (U.O.N. ON PLAN) - EXTEND MIN. 3'-0" PAST OPENING EACH SIDE (OR TO END OF WALL) OVER 2x4 FLAT BLOCKING BTWN STUDS. PLACE STRAP OVER WALL SHEATHING. PLACE STRAP ON BOTH SIDES OF DBL-SIDED SHEAR WALLS WHERE OCCURS

SHEAR WALL MARK	STRAP
①	CS20
②	CS16
③	CS16
④	CS14



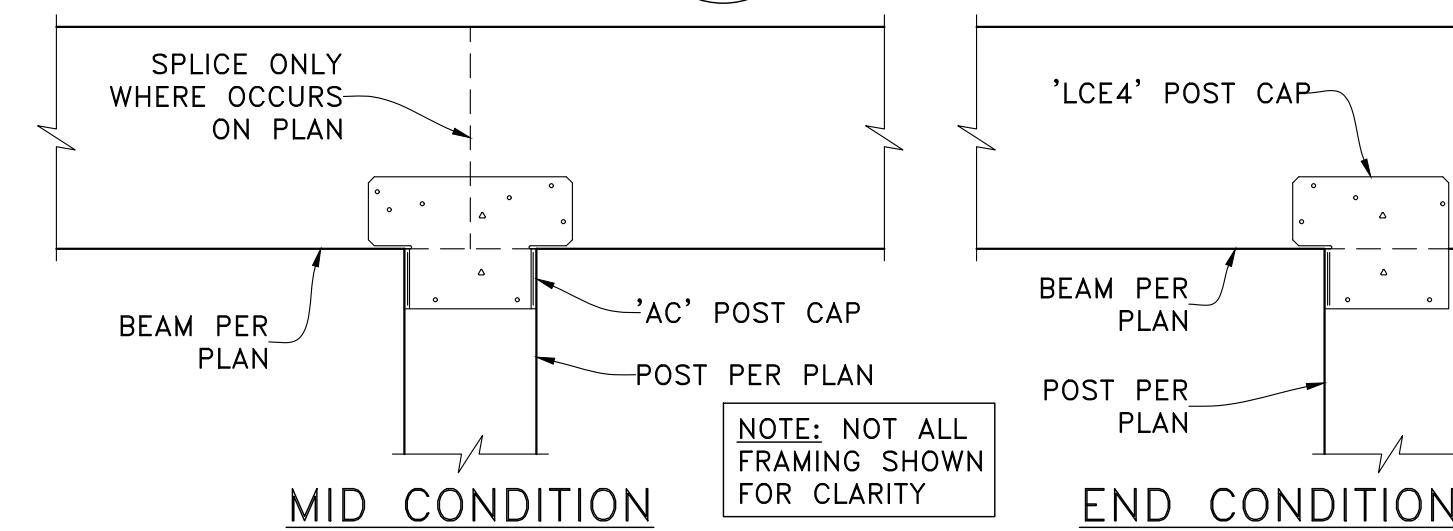
TYPICAL MULTI-PLY BEAM FASTENING

SCALE: NTS



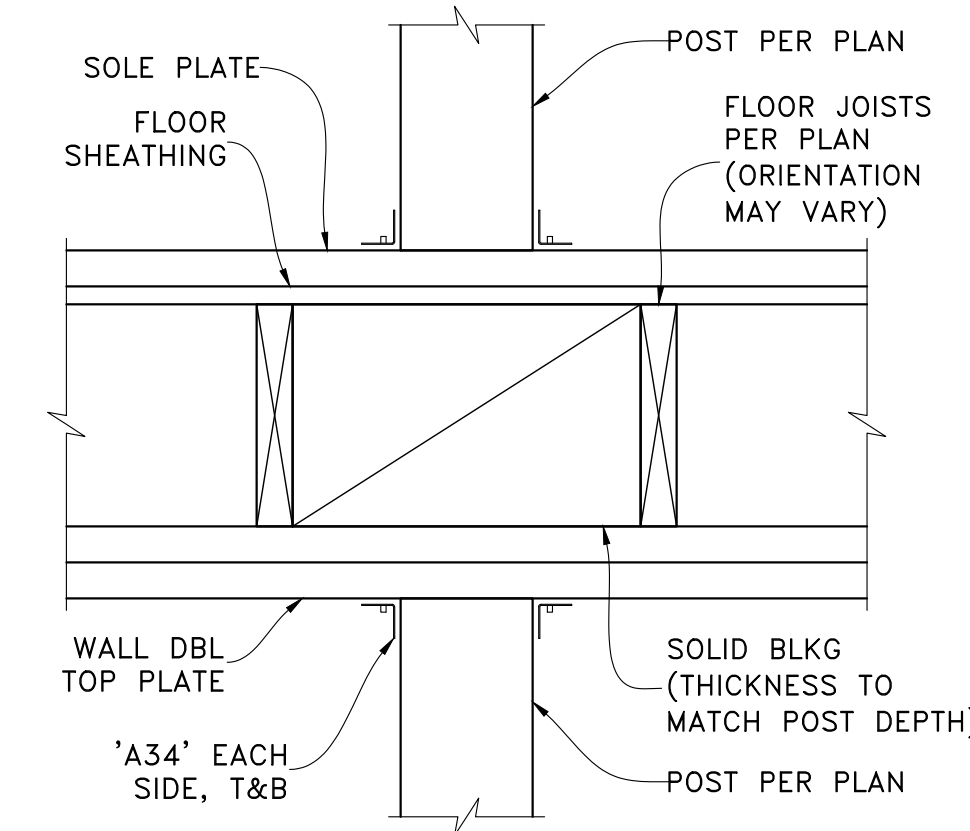
POST IN BALLOON-FRAMED WALL

SCALE: NTS



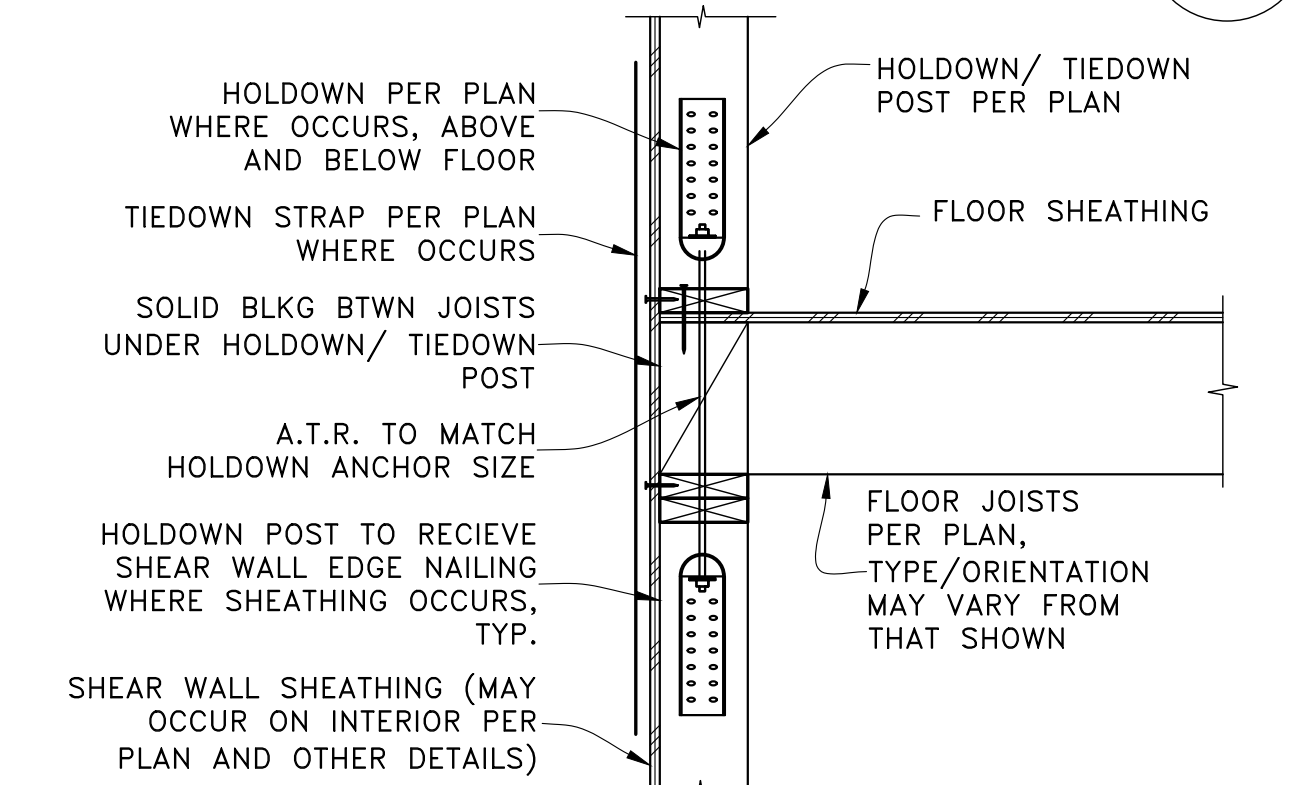
BEAM TO ISOLATED POST

SCALE: NTS



POST IN WALL AT FLOOR

SCALE: NTS

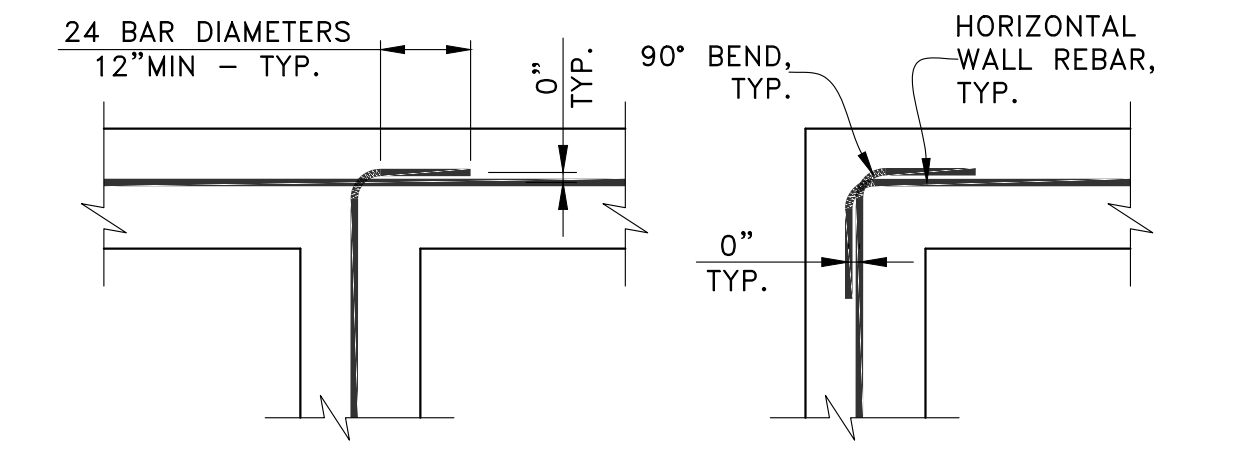


TYPICAL UPPER FLOOR HOLDOWN OR TIEDOWN STRAP

SCALE: NTS

HOLDOWN	ANCHOR	ANCHOR EMBEDMENT
HDU2	SB8x24	18"
HDU4	SB8x24	18"
HDU5	SB8x24	18"
HDU8	SB8x24	18"
HDU11	SB1x30	24"

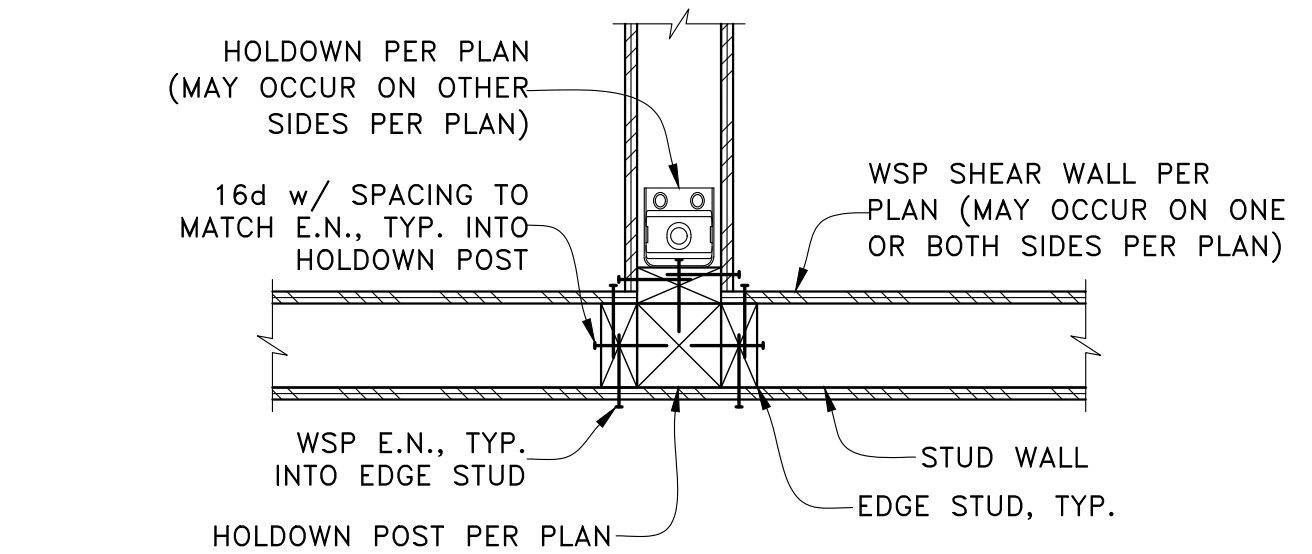
- NOTES:
- 1) SEE GENERAL NOTE 7.7 FOR ADDITIONAL HOLDOWN SPECIFICATIONS NOT NOTED HEREIN.
 - 2) NOT ALL FOUNDATION REINFORCEMENT SHOWN FOR CLARITY (REFER TO OTHER DETAILS)



INTERSECTION CORNER

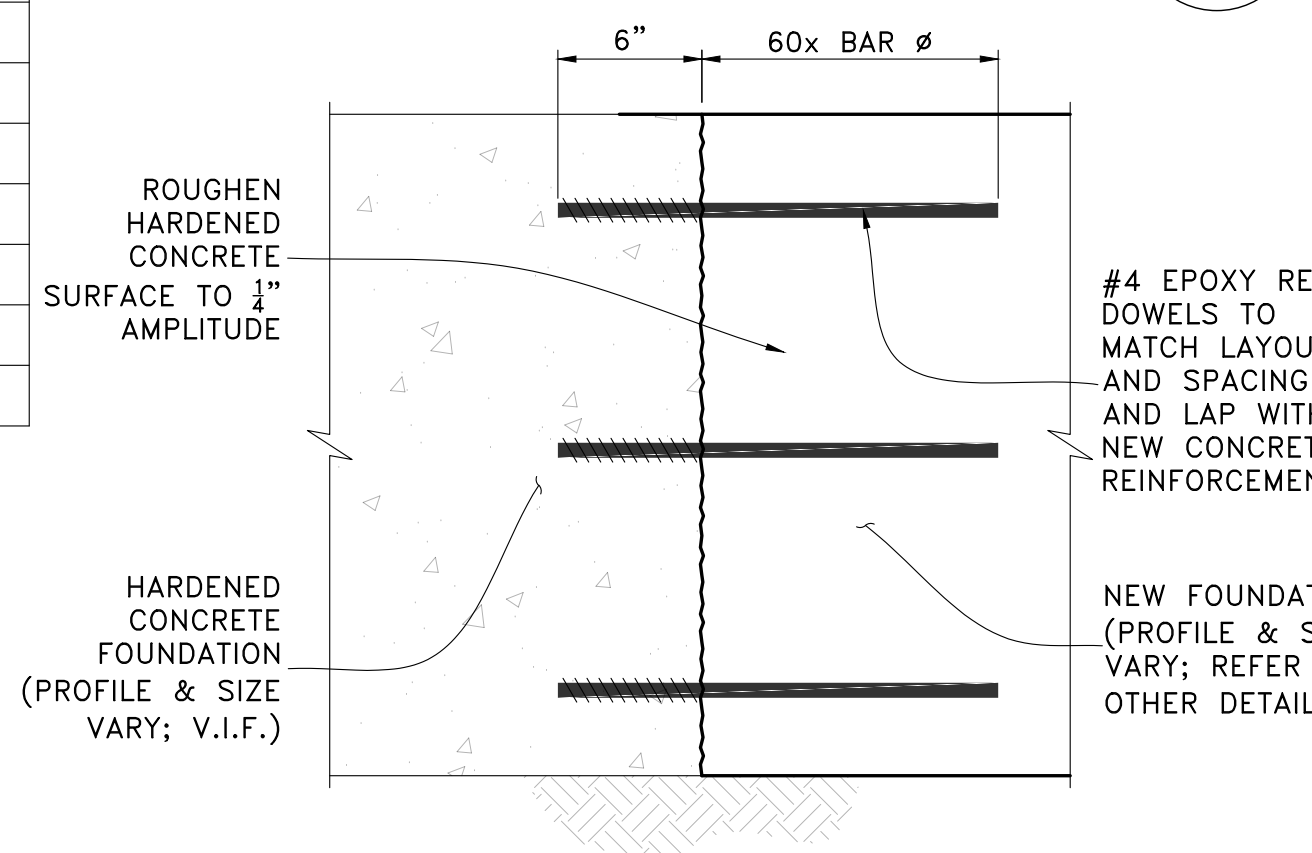
TYPICAL FOOTING AND WALL CORNERS

SCALE: NTS



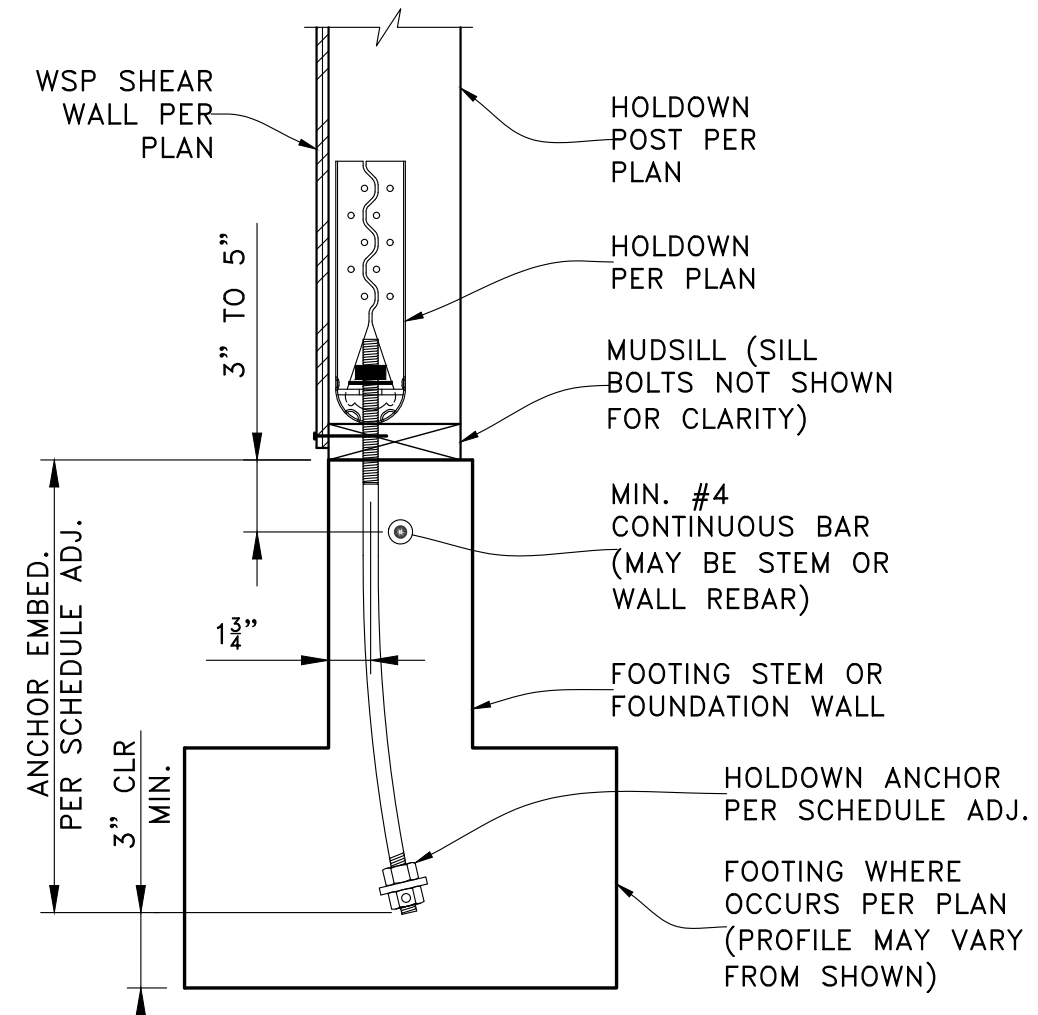
HOLDOWN AT CORNER

SCALE: NTS



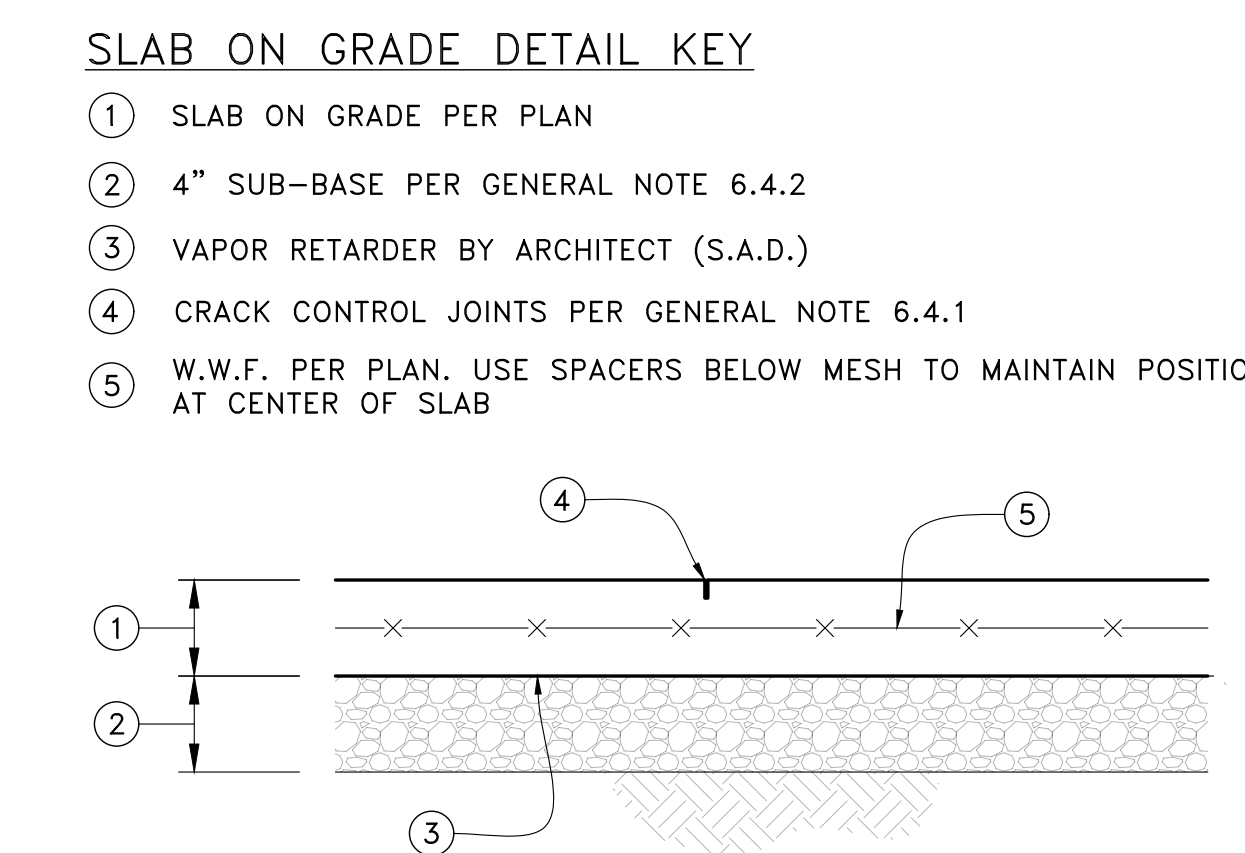
TYPICAL FRESH TO HARDENED CONCRETE

SCALE: NTS



TYPICAL HOLDOWN AT FOUNDATION

SCALE: NTS



TYPICAL SLAB ON GRADE

SCALE: NTS

PERMIT SET

07-25-23 1ST CORRECTION RESPONSE 12-14-22 PERMIT SET

PROJECT: NEW SINGLE-FAMILY DWELLING 2423 60th Ave SE Mercer Island, WA 98040

CLIENT: Mary Smeresh 2423 60th Ave SE Mercer Island, WA 98040

ENGINEER OF RECORD: O.G. ENGINEERING, PLLC 3201 1st Ave S, Suite 101, Seattle, WA 98134 (206) 290-4608 owen@ogengineer.com

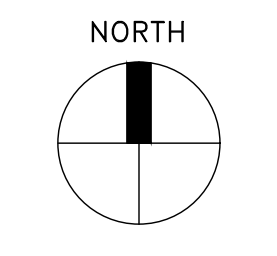
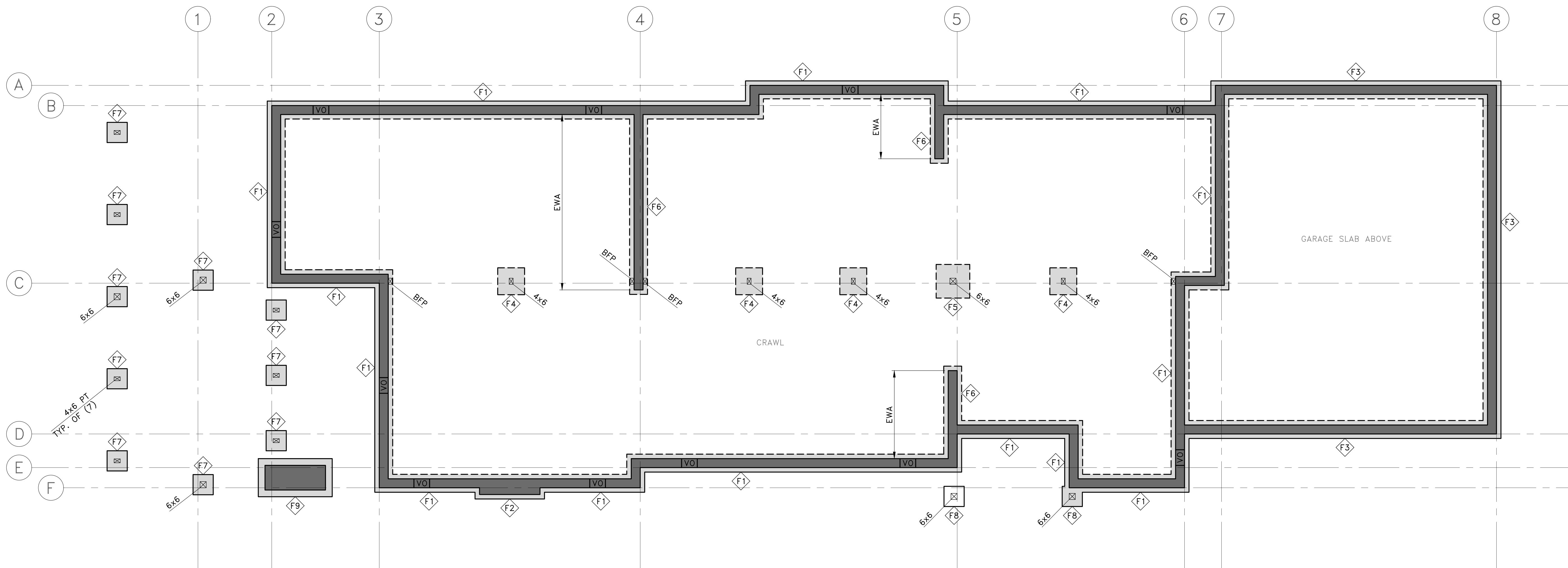
SHEET TITLE: TYPICAL DETAILS

PLAN LEGEND

	CONCRETE FOUNDATION WALL PER FOUNDATION SCHEDULE BELOW		
	CONCRETE SPREAD FOOTING PER FOUNDATION SCHEDULE BELOW		
	POST ABOVE FOUNDATION PER (C-E/S7)		
		BFP	4x6 POST FROM T.O. FOOTING TOE TO U/S MAIN FLOOR BEAM w/ 'LCE4Z' CAP & 1/2" Ø EPOXY ANCHORS w/ 4" EMBED. INTO CONCRETE STEM WALL STARTING 6" FROM T.O. POST & @12" o.c. BTWN. CENTER VERT. ANCHOR ROW IN POST. PLACE W.P. BARRIER (BY OTHERS) BTWN UNTREATED WOOD AND CONCRETE. MAINTAIN 1/2" AIR GAP BTWN END OF SUPPORTED BEAM AND CONCRETE WALL
		VO	VENT OPENING AT T.O. FNDN WALL (S.A.D.). MUDSILL SHALL BE CONTINUOUS OVER OPENING AND FOR MIN. 16" BEYOND EACH SIDE. MAX VENT LENGTH = 14", TYP.

FOUNDATION SCHEDULE

F1	8" EXTERIOR CRAWLSPACE FOUNDATION WALL w/ 16" WIDE T-FOOTING PER (A/S7)
F2	14" CRAWLSPACE FOUNDATION WALL BLW FIREPLACE w/ 22" WIDE T-FOOTING PER (A/S7) SIM. CONTINUE F1 HORIZ. BARS THROUGH F2 LENGTH (2 LAYERS OF HORIZ. BARS)
F3	8" SLAB ON GRADE FOUNDATION WALL w/ 16" WIDE T-FOOTING PER (B/S7)
F4	2'-0" SQ. CRAWLSPACE PAD FOOTING PER (C/S7)
F5	2'-6" SQ. CRAWLSPACE PAD FOOTING PER (C/S7)
F6	8" INTERIOR CRAWLSPACE FOUNDATION WALL w/ 16" WIDE T-FOOTING PER (A/S7) SIM
F7	1'-6" SQ. DECK PAD FOOTING PER (D/S7)
F8	1'-6" SQ. EXTERIOR POST FOOTING PER (E/S7)
F9	EXTERIOR FIREPLACE PEDESTAL AND FOOTING PER (G/S7)

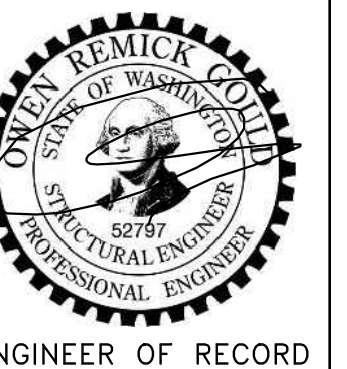


PERMIT SET

REV	DATE	DESCRIPTION
07-25-23	12-14-22	1ST CORRECTION RESPONSE PERMIT SET

PROJECT: **NEW SINGLE-FAMILY DWELLING**
 2423 60th Ave SE
 Mercer Island, WA 98040

CLIENT: **Mary Smersh**
 2423 60th Ave SE
 Mercer Island, WA 98040



ENGINEER OF RECORD

O.G. ENGINEERING, PLLC
 3201 1st Ave S, Suite 101, Seattle, WA 98134
 (206) 290-4608
 owen@ogengineer.com

SHEET TITLE: **CRAWLSPACE FOUNDATION PLAN**

PLAN LEGEND

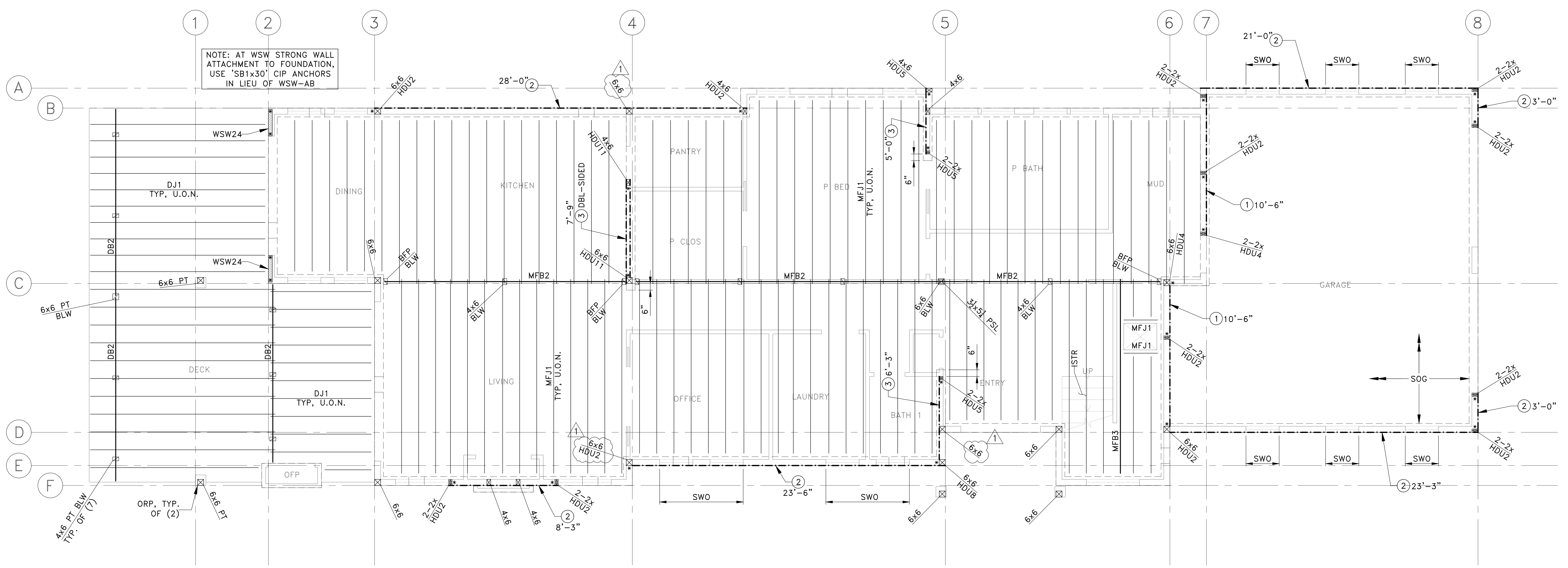
FRAMING SCHEDULE

PLAN LEGEND		FRAMING SCHEDULE	
SYMBOL	DESCRIPTION	CALLOUT	JOIST/BEAM
	STUD WALL ABOVE FLOOR	MFJ1	11 1/8 TJI 210 @16"o.c.
	WALL BELOW FLOOR	MFB2	5 1/2 x 9 GLB (DROPPED)
	WINDOW BY ARCH (S.A.D.)	MFB3	1 1/2 x 11 1/8 LVL (FLUSH)
	1/2" W.S.P. SHEAR WALL TYPE (X) AND DETAIL CALLOUTS ON PLAN	DJ1	2x10 PT @16"o.c.
	POST ABOVE OR BELOW FLOOR PER (E-F) S2 (C-E) S7	DB2	6x10 PT (DROPPED)
	POST & HOLDOWN PER (L) S2		
	SIMPSON STRONG WALL WSWXX PER ATTACHED MANUFACTURER'S DETAIL SHEETS. AT ATTACHMENT TO FOUNDATION, USE 'SB1x30' CIP ANCHORS IN LIEU OF WSW-AB		
	BEAM HANGER		
	JOIST OR BEAM BEARING ON DROPPED BEAM OR HEADER (BEARING WALL SIM). POST DOWN TO HEADER WHERE OCCURS (POST WIDTH TO MATCH BEAM, NOT SHOWN FOR CLARITY). INSTALL FULL-DEPTH BLKG EACH SIDE OF JOIST OR BEAM OVER SUPPORT		

NORTH

PERMIT SET

	REV. DATE DESCRIPTION
--	-----------------------



PROJECT: NEW SINGLE-FAMILY DWELLING
2423 60th Ave SE
Mercer Island, WA 98040

CLIENT: Mary Smersh
2423 60th Ave SE
Mercer Island, WA 98040

OWEN REMICK
REGISTERED PROFESSIONAL ENGINEER
ENGINEER OF RECORD

O.G. ENGINEERING, PLLC
3201 1st Ave S, Suite 101, Seattle, WA 98134
(206) 290-4608
owen@ogengineer.com

SHEET TITLE: MAIN FLOOR FRAMING PLAN

SCALE: AS NOTED	SHEET NO. S4
JOB NO. 22004	

PLAN LEGEND

	STUD WALL ABOVE FLOOR		
	WALL BELOW FLOOR	BBW	BLOCK SOLID BELOW END OF LRB2 DOWN TO T.O. WSW
	WINDOW BY ARCH (S.A.D.)	BFW	B.F. 1 1/2 x 5 1/2 LVL EXTERIOR WALL STUDS @ 16" o.c. FROM MAIN FLOOR TO ROOF w/ 'A35' T&B @ EACH STUD & 'A35' T&B EACH SIDE OF MULTI-PLY STUDS & POSTS WITHIN WALL
	1/2" W.S.P. SHEAR WALL TYPE (X) AND DETAIL w/ MIN. LENGTH 'L', PER (X) (H) (S2) CALLOUTS ON PLAN	ISTR	INTERIOR STAIR FRAMING PER (K) (S7)
	POST ABOVE OR BELOW FLOOR PER (E-F) (S2) U.O.N.	KPB	KING POST BEARS ON T.O. DROPPED BEAM w/ INV. 'AC' BASE
	POST & HOLDOWN OR TIEDOWN STRAP PER (J) (S2)	LOR	LOOKOUT RAFTER PER (E) (S8) (B) (S9)
	OVER-FRAMING PER (K) (S8)	SWO	STRAP AROUND SHEAR WALL WITH OPENINGS PER (B) (S2)
	SIMPSON STRONG WALL WSWXX PER ATTACHED MANUFACTURER'S DETAIL SHEETS AND (H) (S8)	TCS	1 1/2 x 5 1/2 LVL CRIPPLE STUD (SUPPORTS TRANSOM HEADER ABOVE) w/ 16d @ 6" o.c. FACE-NAIL TO SIDE OF WSW
	METAL STRAP PER PLAN (PLACE o/ SHEATHING WHERE OCCURS). E.N. ROOF/ FLOOR SHEATHING TO FULL LENGTH OF ATTACHED BEAMS & JOISTS WHERE OCCURS		
UST1	'MSTC40' STRAP o/ T.O. BEAM TO ABUTTING BEAM		
UST2	'MSTC40' STRAP U/S BEAM TO T.O. ABUTTING TOP PLATE PER (I) (S8)		
UST3	'CS16' STRAP 18" o/ LRR1 & CONTINUE MIN. 36" o/ BLKG BTWN UDJ1 (ADD LRR1 AS REQ'D TO ALIGN)	BEAM HANGER	FLUSH-FRAMED JOIST OR BEAM CONNECTION; SEE FRAMING SCHEDULE FOR HANGERS, U.O.N. ON PLAN OR DETAILS (JOIST HANGERS NOT SHOWN ON PLAN FOR CLARITY)
UST4	'MSTA36' STRAP o/ LRR1 ATTACHED TO UST3&5 ACROSS RIDGE TO ABUTTING LRR1 (ADD LRR1 AS REQ'D TO ALIGN w/ STRAPS)		
UST5	'MSTA36' STRAP o/ LRR1 & UFB9 (ADD LRR1 AS REQ'D TO ALIGN)		JOIST OR BEAM BEARING ON DROPPED BEAM OR HEADER (BEARING WALL SIM). POST DOWN TO HEADER WHERE OCCURS (POST WIDTH TO MATCH BEAM, NOT SHOWN FOR CLARITY). INSTALL FULL-DEPTH BLKG EACH SIDE OF JOIST OR BEAM OVER SUPPORT
UST6	'CS16' STRAP 18" o/ UFB5 & CONTINUE o/ 1/2 LSL BLKG BTWN UFJ1 FOR MIN (3) BAYS w/ (2) 'A35' CLIPS @ BLKG TO TOP PLATE BLW EACH BAY, MIN. (6) CLIPS TOTAL		

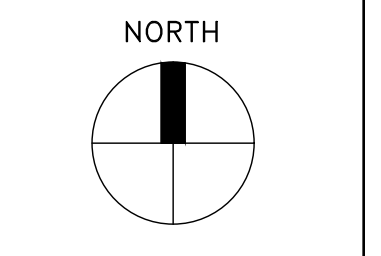
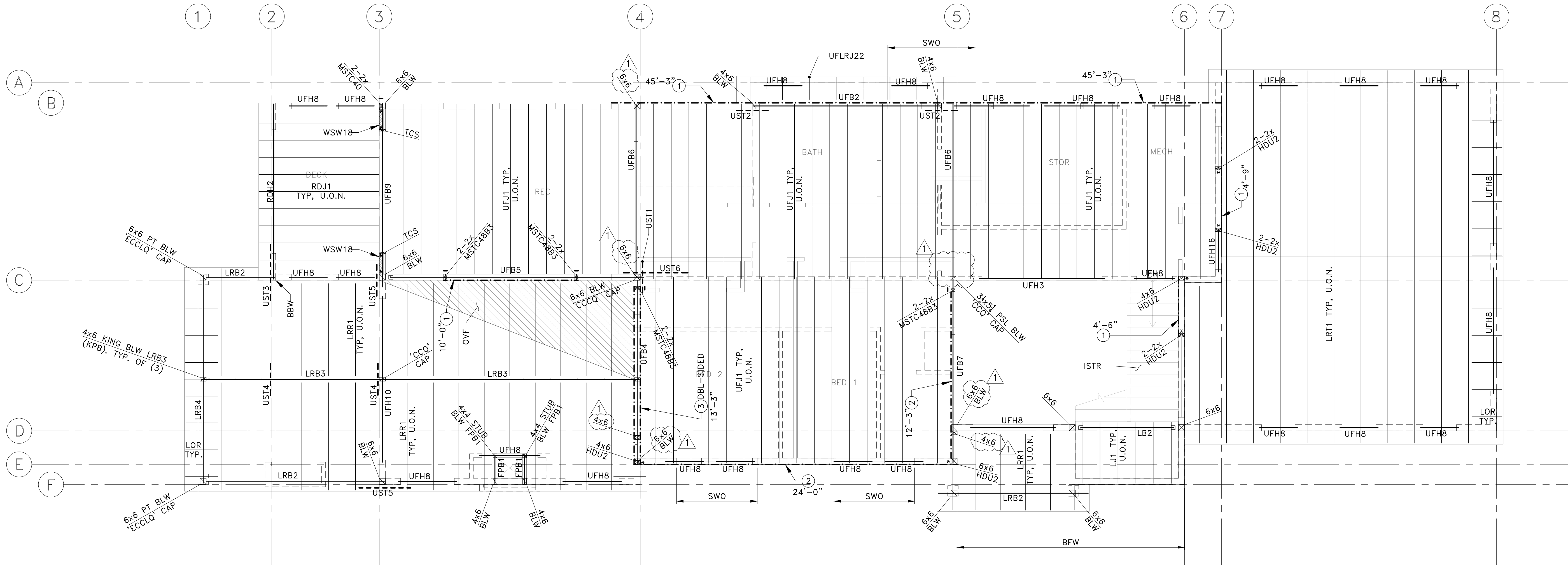
FRAMING SCHEDULE

CALLOUT	JOIST/BEAM	HANGER (U.O.N. ON PLAN)	REFER TO DETAIL(S) (OR SEE NOTES BLW)
UFJ1	1 1/2 TJI 210 @ 16" o.c.	IUS2.06/11.88	(A) (S8)
UFB2	5 1/2 x 11 1/2 PSL (FLUSH w/ UFJ1)	N/A	(J) (S8)
UFH3	4x10 (DROPPED HEADER)	N/A	(A) (S2)
UFB4	5 1/2 x 11 1/2 PSL (FLUSH w/ UFJ1)	N/A	(J) (S8)
UFB5	5 1/2 x 11 1/2 PSL (FLUSH w/ UFJ1)	HHUS5.50/10	(J) (S8) CONTINUE EAST END OF UFB5 MIN. 3" EAST OF 6x6 POST BLW
UFB6	3 1/2 x 11 1/2 LSL (FLUSH w/ UFJ1)	N/A	E.N. FLOOR SHEATHING TO FULL LENGTH OF UFB6
UFB7	3 1/2 x 11 1/2 PSL (FLUSH w/ UFJ1)	N/A	(B-C) (S8) SIM
UFH8	4x8 (DROPPED HEADER)	N/A	(A) (S2)
UFB9	5 1/2 x 11 1/2 PSL (FLUSH w/ UFJ1)	N/A	(H,L) (S8) CONTINUE SOUTH END OF UFB9 MIN. 6" SOUTH OF 6x6 POST BLW
UFH10	5 1/2 x 9 1/2 PSL (HEADER BTWN DOOR & TRANSOM WINDOWS)	N/A	(A) (S2) INSTALL UFH8 ABOVE TRANSOM WINDOWS
RDJ1	1 1/2 x 9 1/2 LVL @ 16" o.c. (RIP TO SLOPE, S.A.D.)	HU7	(L-M) (S8) 7 1/2" MIN. JOIST DEPTH AT LOW END OF SLOPE
RDH2	5 1/2 x 9 1/2 PSL (DROPPED)	N/A	(L) (S8) CONTINUE RDB2 ALL THE WAY OVER WSWs

FRAMING SCHEDULE

CALLOUT	JOIST/BEAM	HANGER (U.O.N. ON PLAN)	REFER TO DETAIL(S) (OR SEE NOTES BLW)
LRR1	2x12 @ 24" o.c.	LRU212Z	(D-F) (S8)
LRB2	5 1/2 x 9 GLB (DROPPED)	N/A	(N) (S8)
LRB3	3 1/2 x 11 1/2 PSL (FLUSH RIDGE)	N/A	(G) (S8)
LRB4	5 1/2 x 9 GLB (DROPPED)	N/A	N/A
LRT1*	COMMON GABLE TRUSSES @ 24" o.c.	N/A	(A-B) (S9)
FPB1	4x6 (AT BOTTOM OF UPPER CHIMNEY CHASE WALLS)	N/A	(J) (S8)

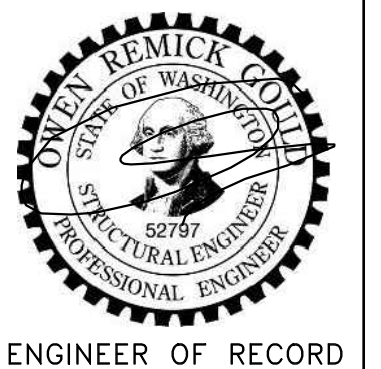
*ALL METAL-PLATE CONNECTED WOOD TRUSSES. STRUCTURAL FASCIAS AND THEIR CONNECTIONS TO OTHER MEMBERS ARE DESIGN-BUILD BY TRUSS SUPPLIER. REFER TO SHEET S1, GENERAL NOTE 7.10 FOR TRUSS DESIGN CRITERIA AND OTHER INFO.



PERMIT SET	
07-25-23	1ST CORRECTION RESPONSE
12-14-22	PERMIT SET
REV	DATE
	DESCRIPTION

PROJECT: NEW SINGLE-FAMILY DWELLING
 2423 60th Ave SE
 Mercer Island, WA 98040

CLIENT:
 Mary Smersh
 2423 60th Ave SE
 Mercer Island, WA 98040



ENGINEER OF RECORD

O.G. ENGINEERING, PLLC
 3201 1st Ave S, Suite 101, Seattle, WA 98134
 (206) 290-4608
 owen@ogengineer.com

SHEET TITLE: UPPER FLOOR FRAMING PLAN

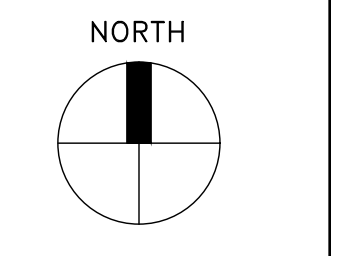
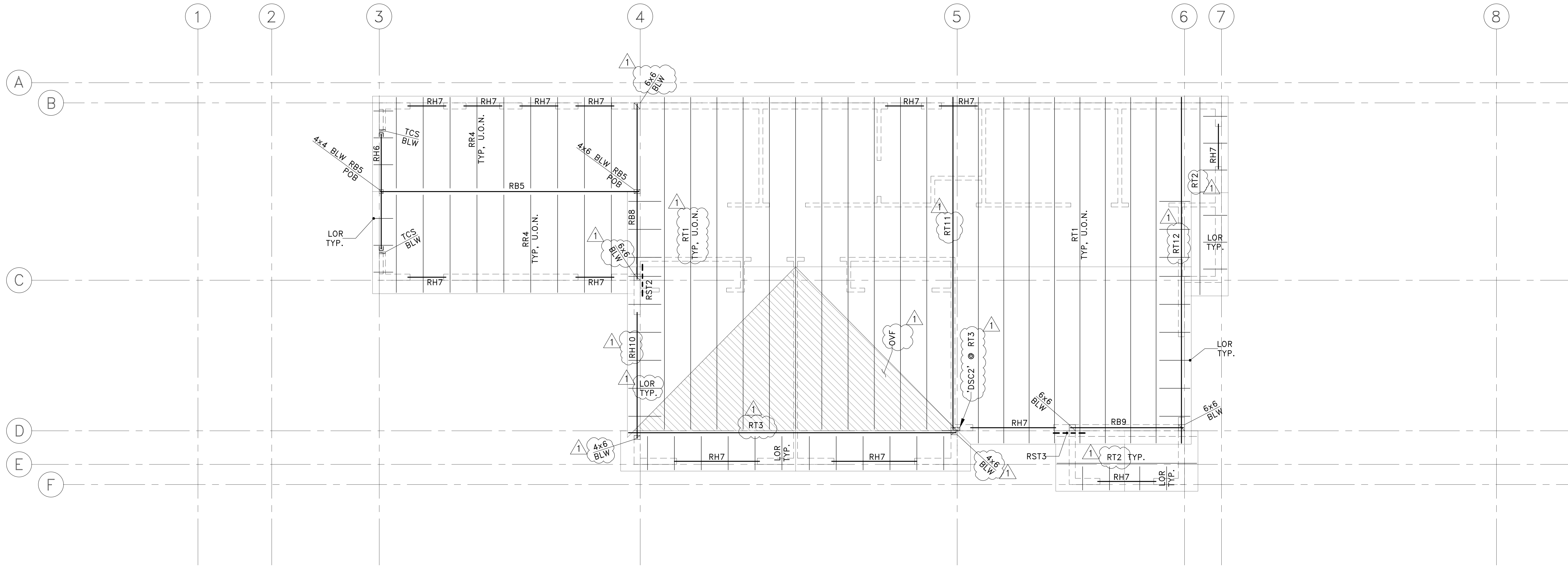
PLAN LEGEND

	STUD WALL ABOVE ROOF		
	WALL BELOW ROOF		
	POST BELOW ROOF PER (E-F) S2		
	OVER-FRAMING PER (K) S8		
	METAL STRAP PER PLAN (PLACE o/ SHEATHING WHERE OCCURS). E.N. ROOF SHEATHING TO FULL LENGTH OF ATTACHED BEAMS & JOISTS WHERE OCCURS		
RST1	'MSTC40' STRAP U/S DRAG TRUSS TO T.O. TOP PLATE, E.N. ROOF SHEATHING TO FULL (I) S8 SIM LENGTH OF DRAG TRUSS TOP CHORD PER		
RST2	'MSTC40' STRAP U/S BEAM TO T.O. ABUTTING TOP PLATE PER (I) S8		
RST3	'MSTA30' STRAP T.O. DROPPED BEAM TO T.O. ABUTTING TOP PLATE		
LOR	LOOKOUT RAFTER PER (E) S8 (B) S9		
POB	POST BEARS ON T.O. BEAM w/ INV. 'AC' BASE		
TCS	1 1/2 x 5 1/2 LVL CRIPPLE STUD (SUPPORTS TRANSOM HEADER) w/ 16d @ 6" o.c. FACE-NAIL TO SIDE OF WSW		FLUSH-FRAMED JOIST OR BEAM CONNECTION; SEE FRAMING SCHEDULE FOR HANGERS, U.O.N. ON PLAN OR DETAILS (JOIST HANGERS NOT SHOWN ON PLAN FOR CLARITY)
			JOIST OR BEAM BEARING ON DROPPED BEAM OR HEADER (BEARING WALL SIM). POST DOWN TO HEADER WHERE OCCURS (POST WIDTH TO MATCH BEAM, NOT SHOWN FOR CLARITY). INSTALL FULL-DEPTH BLKG EACH SIDE OF JOIST OR BEAM OVER SUPPORT

FRAMING SCHEDULE

CALLOUT	JOIST/BEAM	HANGER (U.O.N. ON PLAN)	REFER TO DETAIL(S) (OR SEE NOTES BLW)
RT1*	COMMON GABLE TRUSSES @24"o.c.	BY SUPPLIER	(A-D) S9 (F) S9
RT2*	BUMP-OUT GABLE TRUSSES @24"o.c.	BY SUPPLIER	(A-B) S9 (E) S9
RT3*	GIRDER DRAG TRUSS	N/A	(F) S9 UNIFORM TOP CHORD LOAD = 250 PLF CONCENTRATED BOTTOM CHORD LOAD AT 'DSC2' = 6000 LBS
RR4	2x12 @24"o.c.	LRU212Z	(D-E) S8
RB5	3 1/2 x 11 1/8 PSL (FLUSH RIDGE)	N/A	(G) S8
RH6	3 1/2 x 9 PSL (HEADER BTWN DOOR & TRANSOM WINDOWS)	HUCQ410 (TO SIDE OF WSW)	BEARS ON T.O. TCS & HANGS OFF WSW. INSTALL RH7 ABOVE TRANSOM WINDOWS.
RH7	4x8 (DROPPED EXTERIOR HEADER)	N/A	(A) S2
RBB	5 1/2 x 9 PSL (UPSET, U/S FLUSH w/ PLATE HEIGHT)	N/A	(B) S9 GABLE END WALL ON TOP WHERE OCCURS
RB9	5 1/2 x 7 GLB (DROPPED, TOP FLUSH w/ PLATE HEIGHT)	N/A	N/A
RH10	3 1/2 x 7 GLB (DROPPED EXTERIOR HEADER)	N/A	(A) S2 USE POST AS CRIPPLE @ SOUTH END
RT11*	INTERIOR DRAG TRUSS	N/A	(D) S9 UNIFORM TOP CHORD LOAD = 250 PLF UNIFORM BOTTOM CHORD LOAD OVER SHEAR WALL = 590 PLF OVER 10'-0"
RT12*	STRUCTURAL GABLE END TRUSS	N/A	(C) S9 SPANS WITHOUT SUPPORT FROM G.L. B TO C

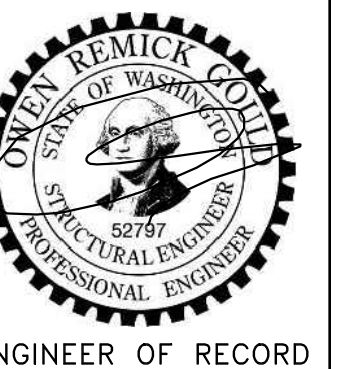
*ALL METAL-PLATE CONNECTED WOOD TRUSSES, STRUCTURAL FASCIA MEMBERS, THEIR CONNECTIONS TO OTHER TRUSSES/FASCIAS AND TRUSS EAVE BLKG ARE DESIGN-BUILD BY TRUSS SUPPLIER. DIMENSIONS, SPANS AND SUPPORT CONDITIONS MAY VARY BETWEEN MEMBERS OF THE SAME CALLOUT (S.A.D). REFER TO SHEET S1, GENERAL NOTE 7.10 FOR TRUSS DESIGN CRITERIA AND OTHER INFO. E.N. ROOF SHEATHING TO FULL-LENGTH OF ALL DRAG TRUSS TOP CHORDS.



PERMIT SET	
07-25-23	1ST CORRECTION RESPONSE
12-14-22	PERMIT SET
REV	DATE
	DESCRIPTION

PROJECT: NEW SINGLE-FAMILY DWELLING
2423 60th Ave SE
Mercer Island, WA 98040

CLIENT: Mary Smersh
2423 60th Ave SE
Mercer Island, WA 98040



ENGINEER OF RECORD

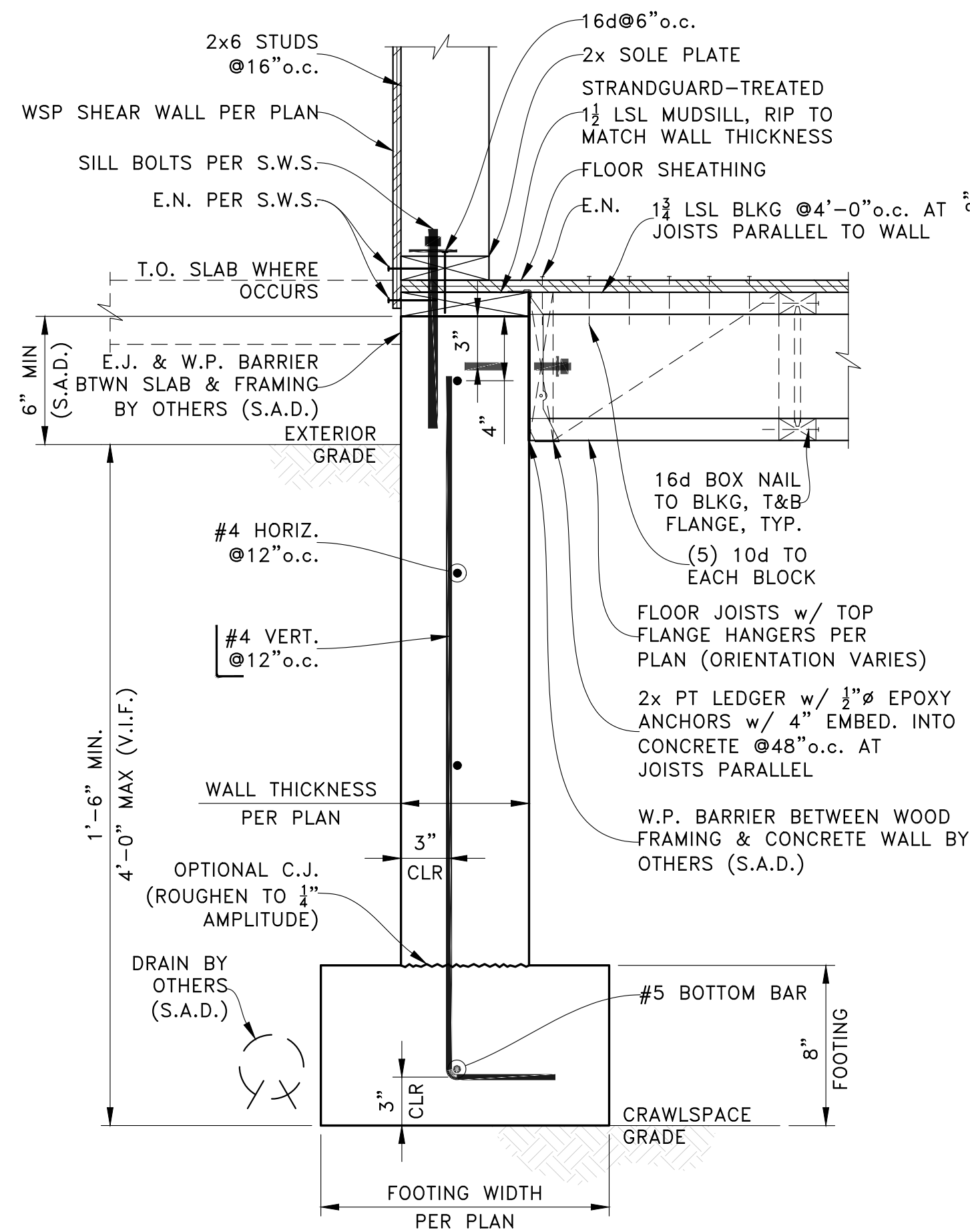
O.G. ENGINEERING, PLLC
3201 1st Ave S, Suite 101, Seattle, WA 98134
(206) 290-4608
owen@ogengineer.com

SHEET TITLE: ROOF FRAMING PLAN

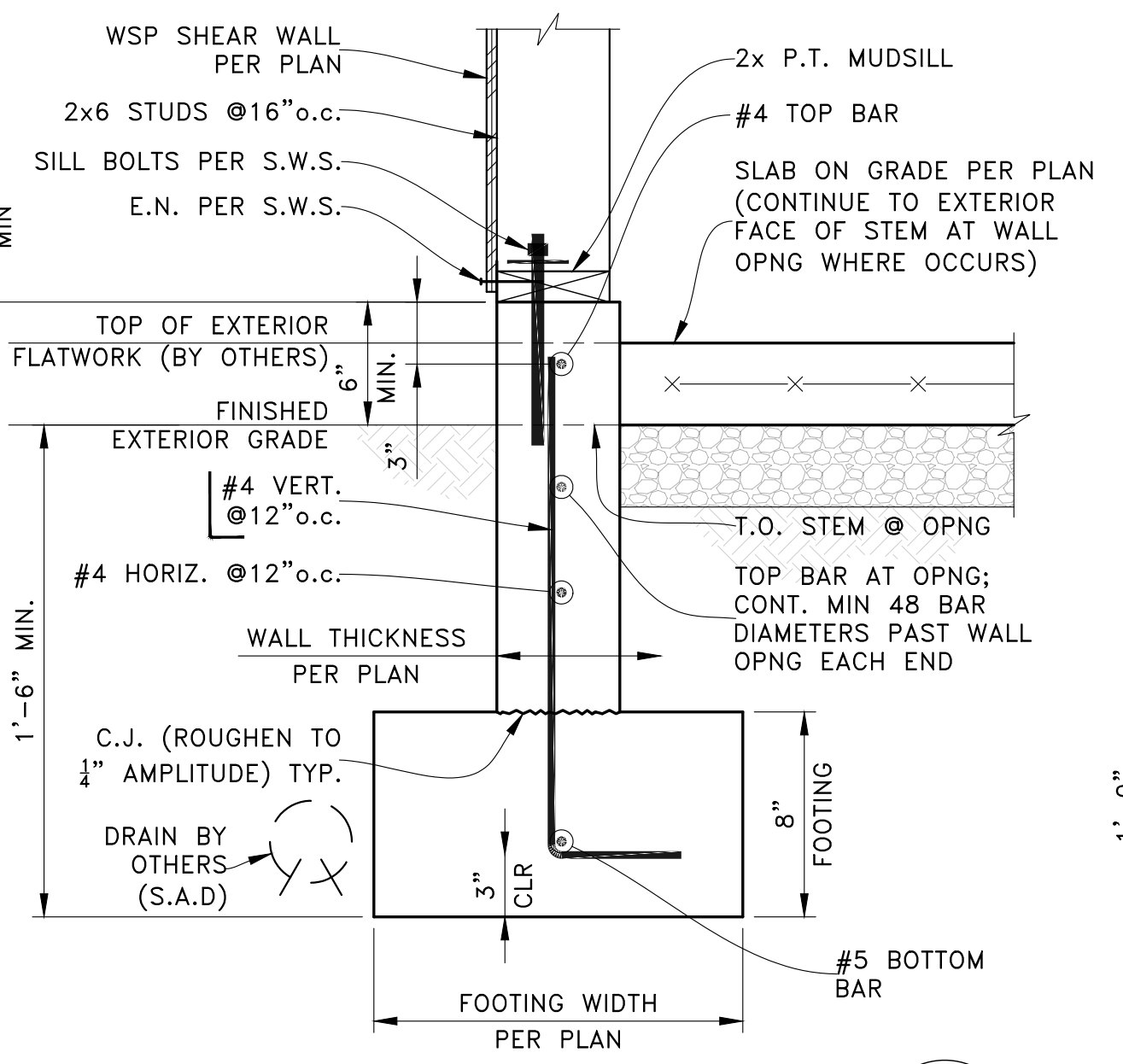
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SHEET NO. S6

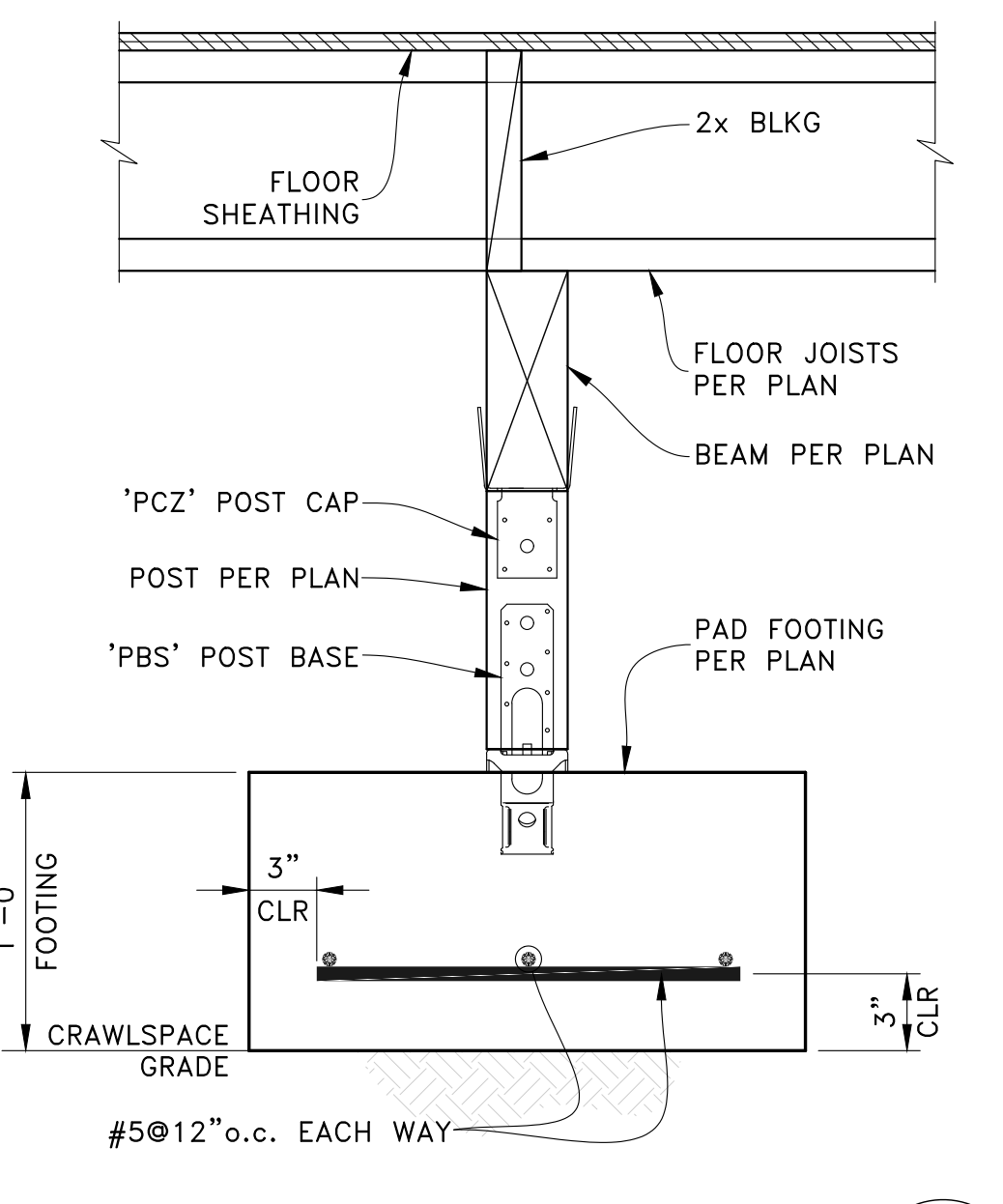
JOB NO. 22004



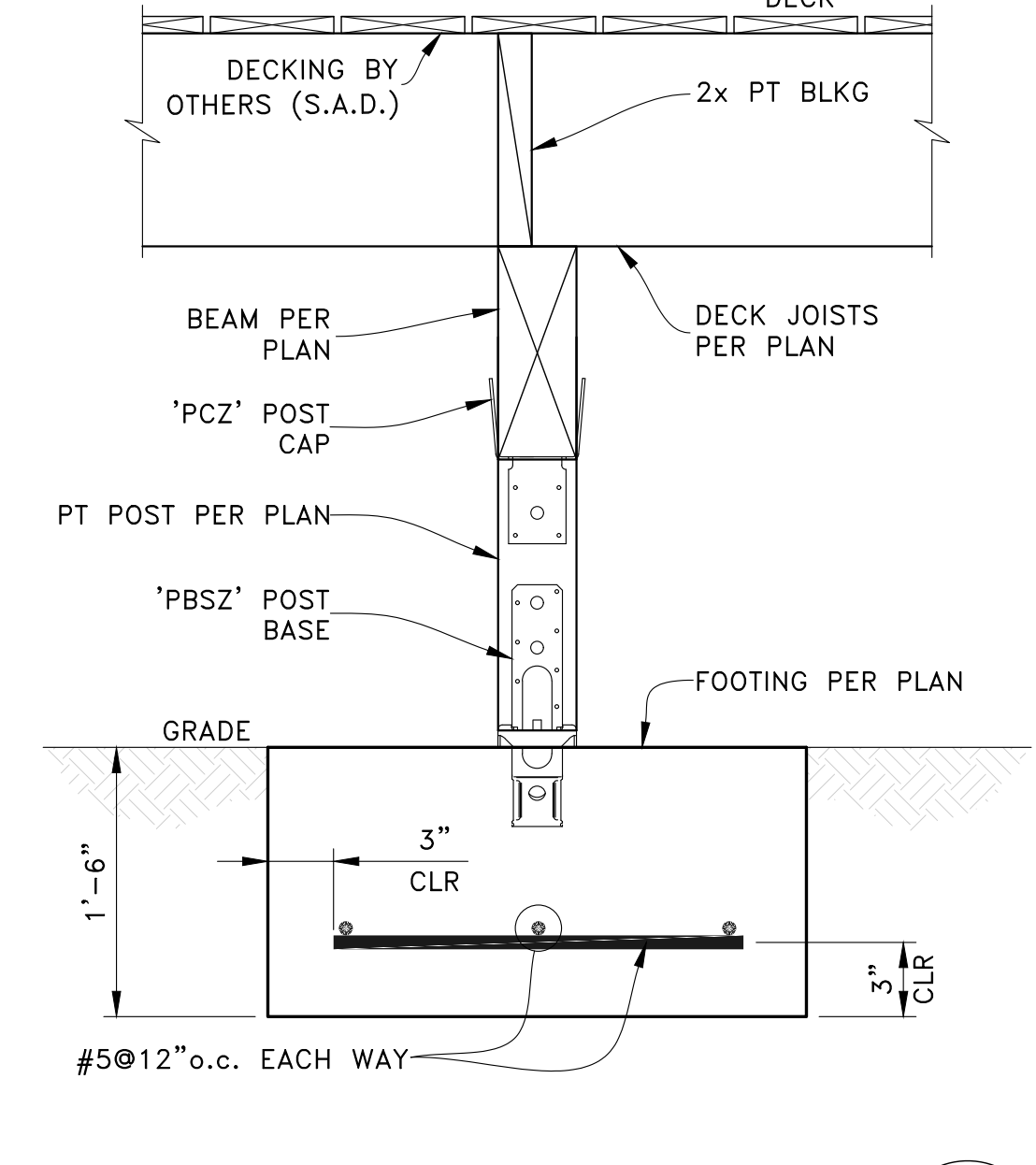
EXTERIOR CRAWSPACE FOUNDATION WALL
SCALE: NTS



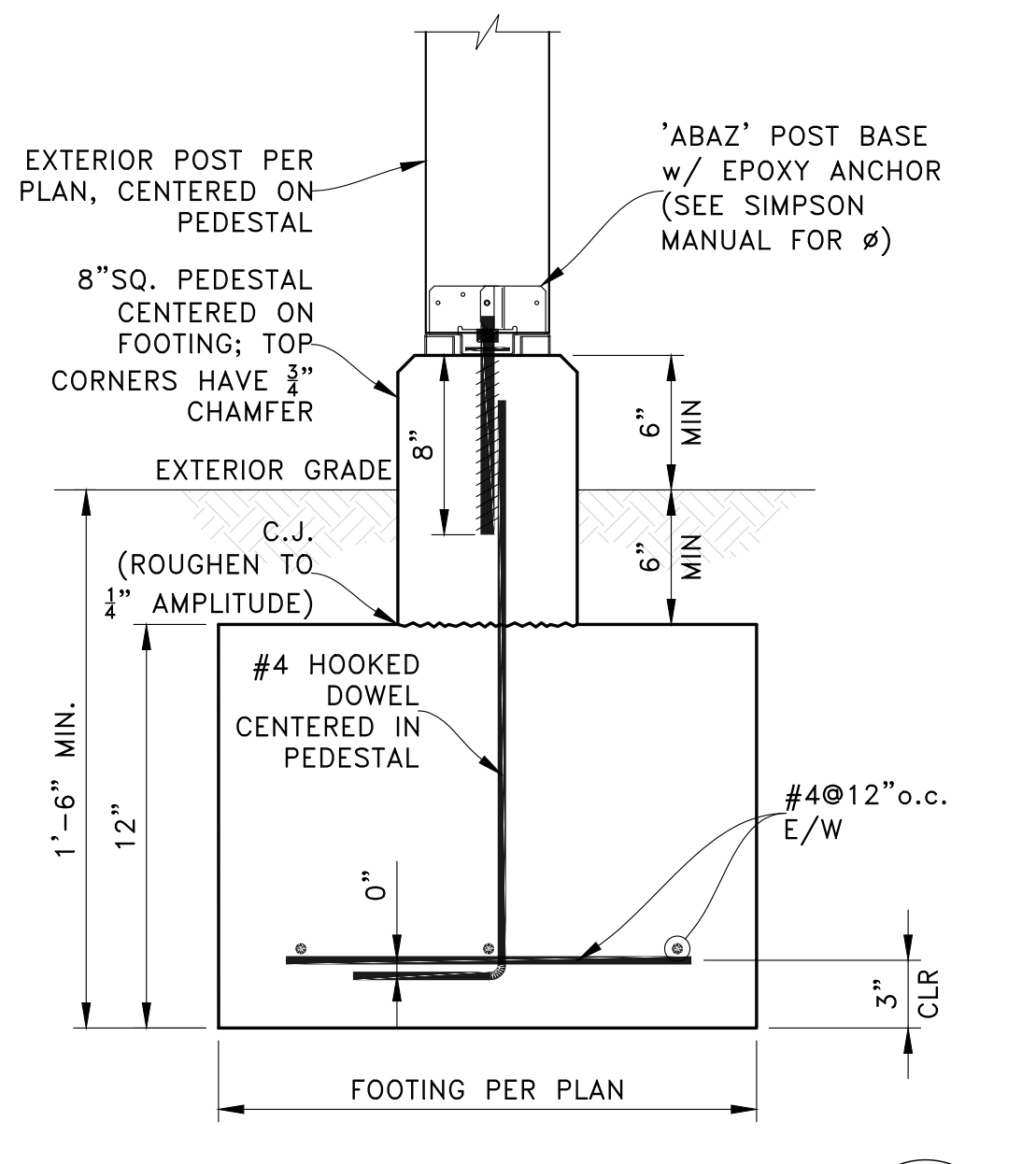
EXTERIOR SLAB ON GRADE FOUNDATION WALL
SCALE: NTS



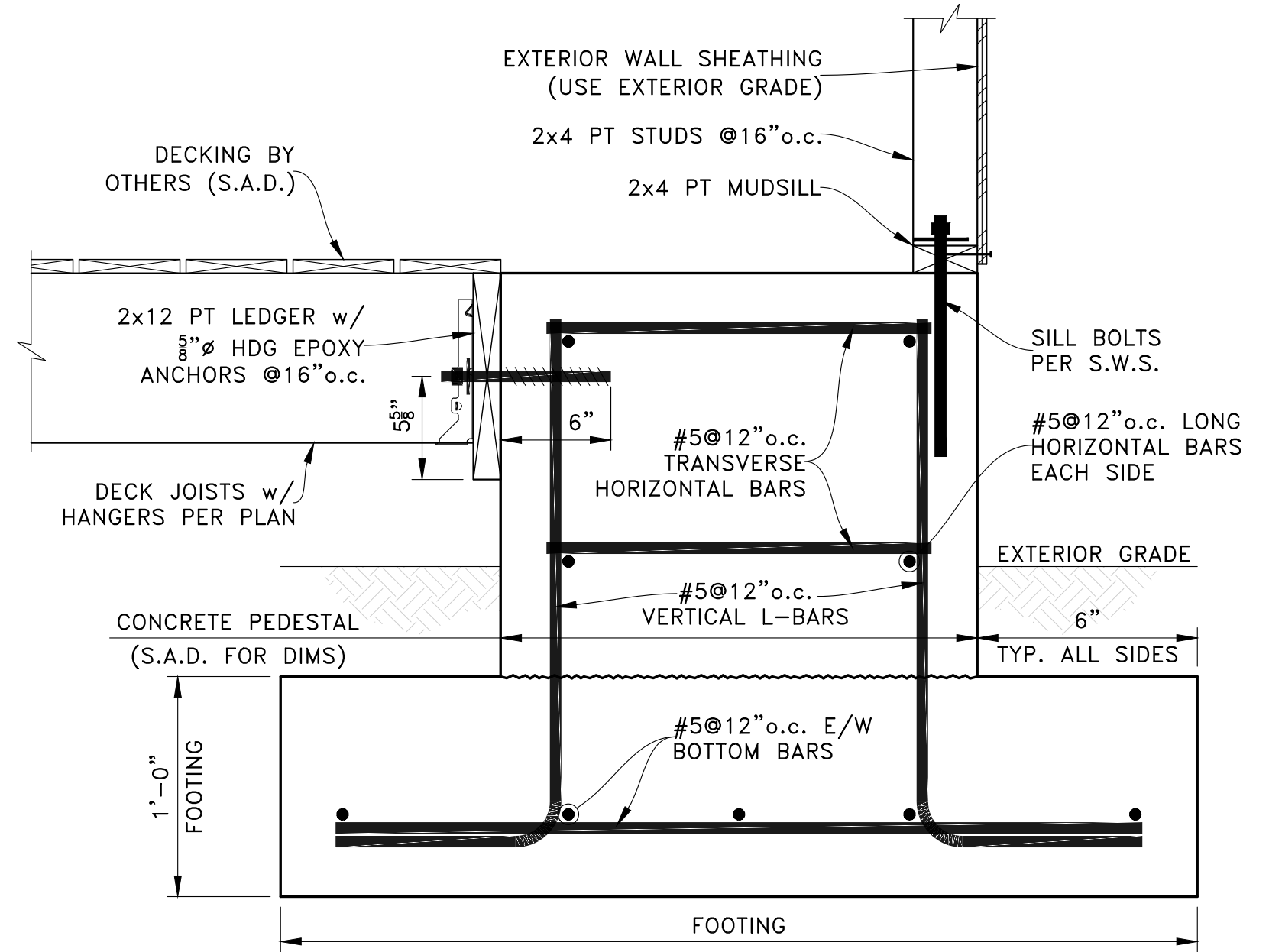
CRAWLSPACE PAD FOOTING
SCALE: NTS



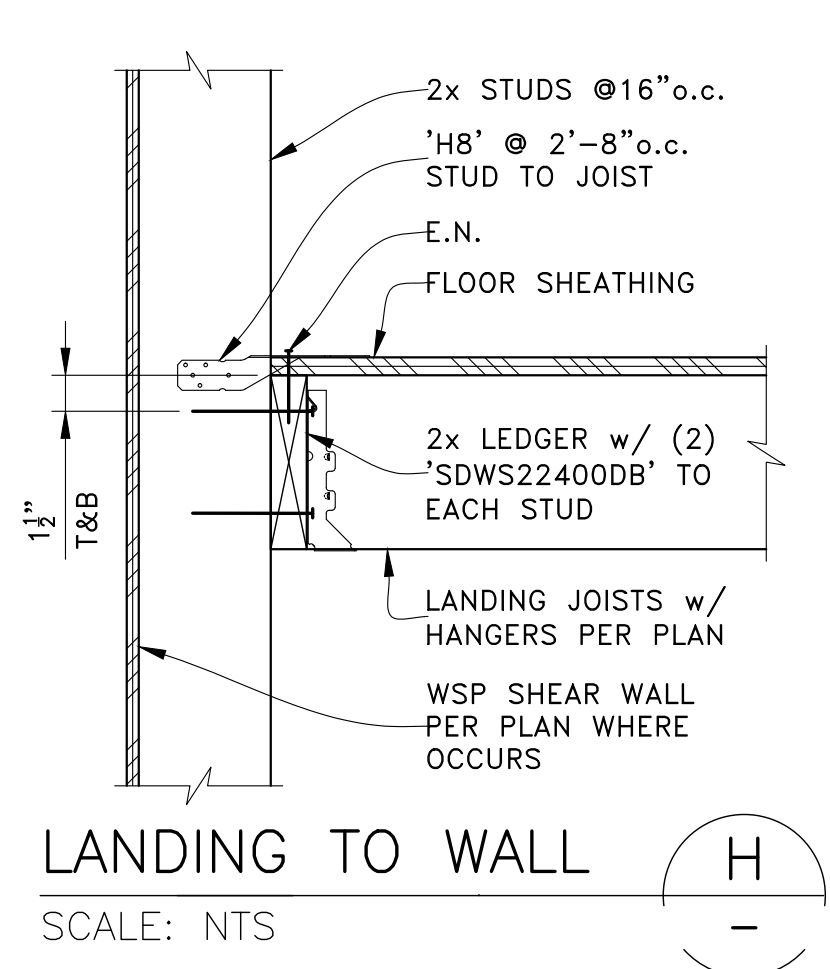
DECK PAD FOOTING
SCALE: NTS



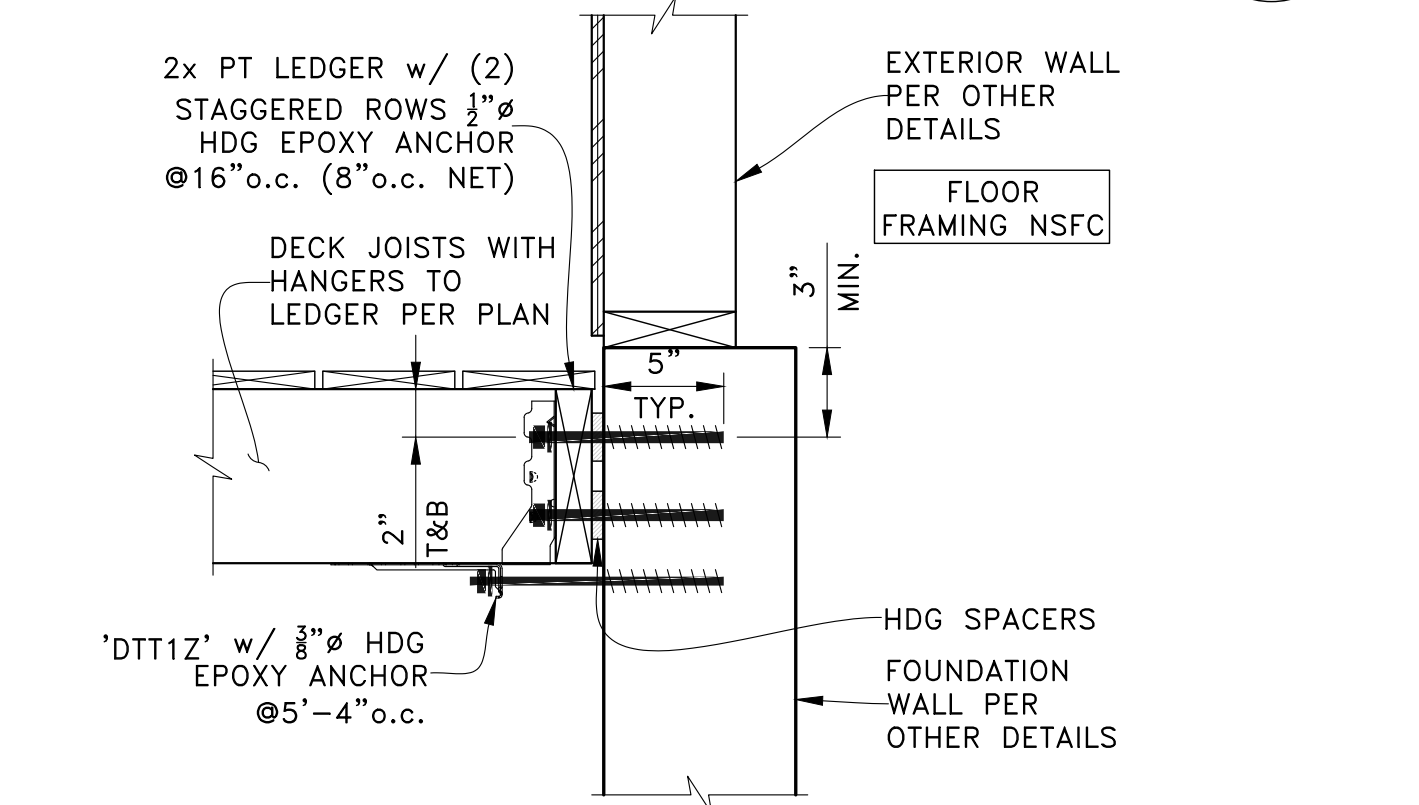
EXTERIOR POST FOOTING
SCALE: NTS



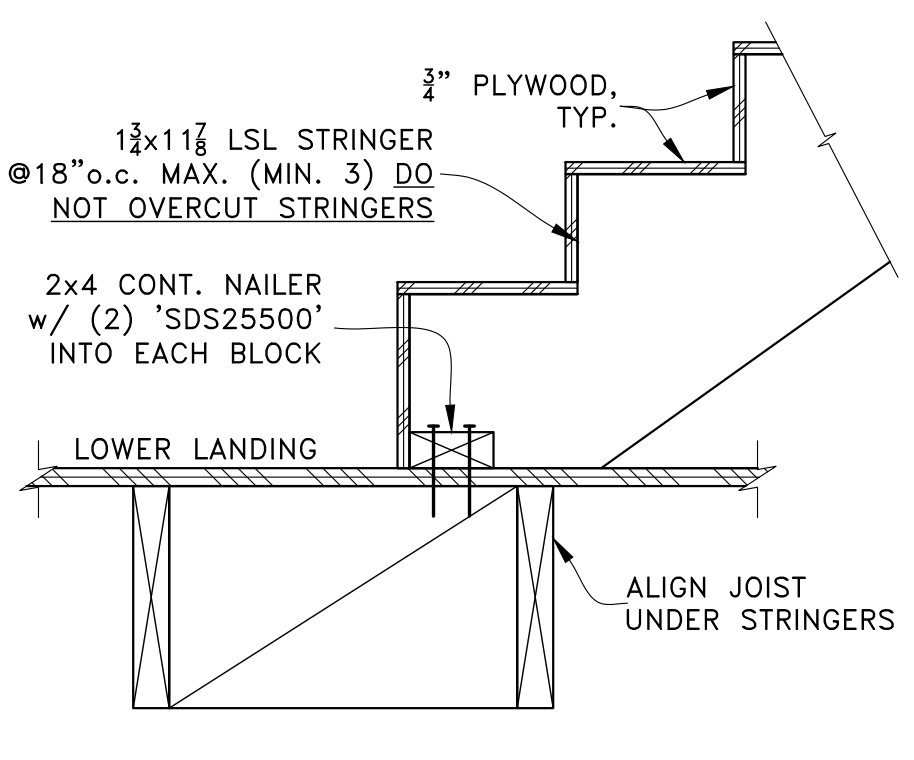
OUTDOOR FIREPLACE FOOTING
SCALE: NTS



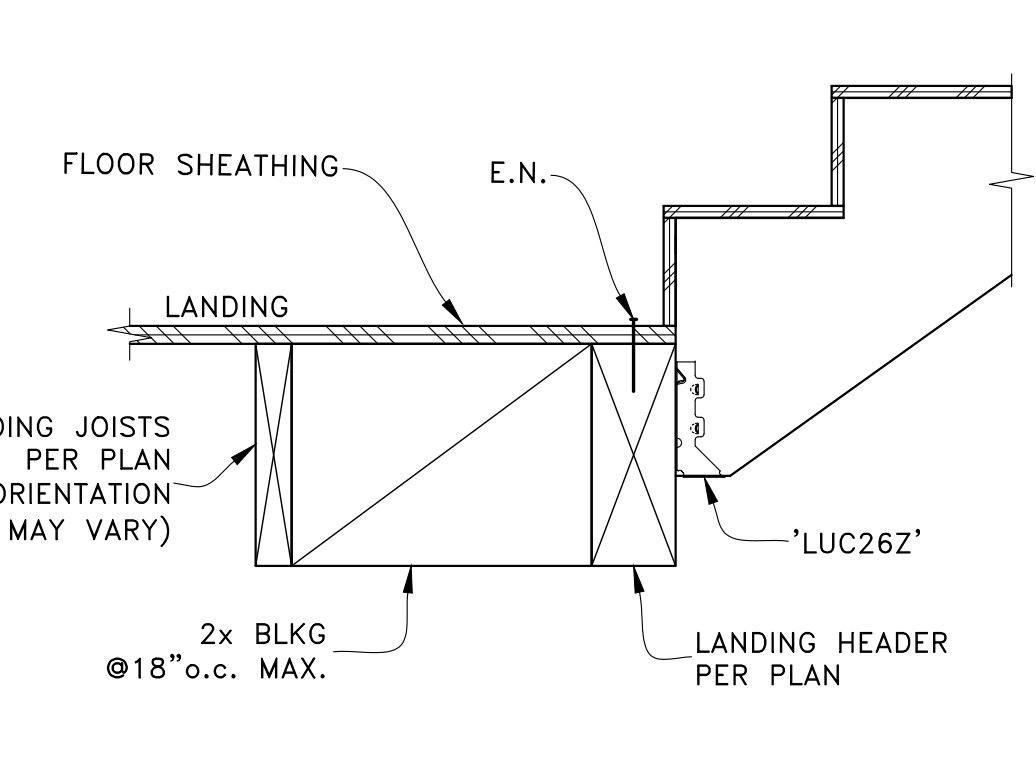
LANDING TO WALL
SCALE: NTS



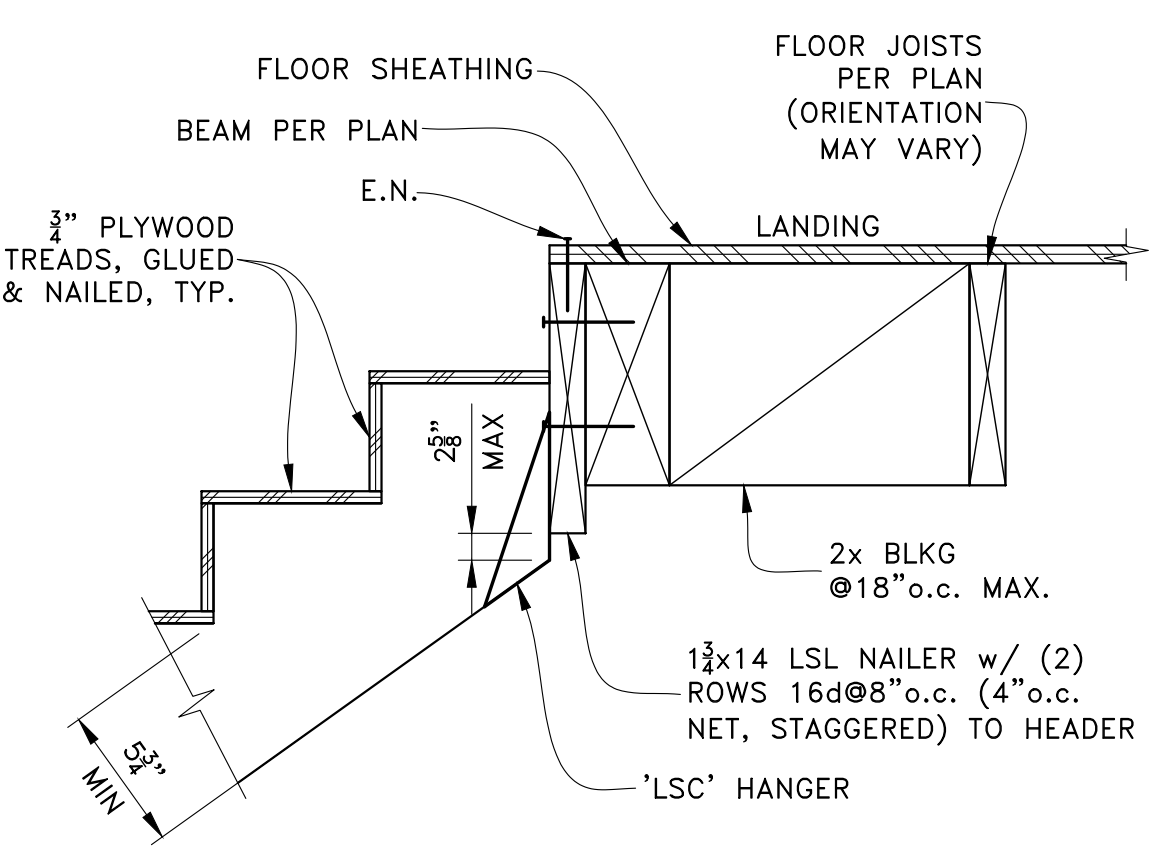
DECK TO FOUNDATION
SCALE: NTS



BOTTOM OF RUN @ FLOOR

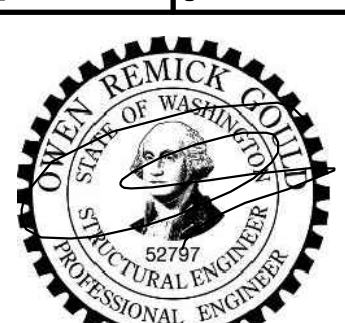


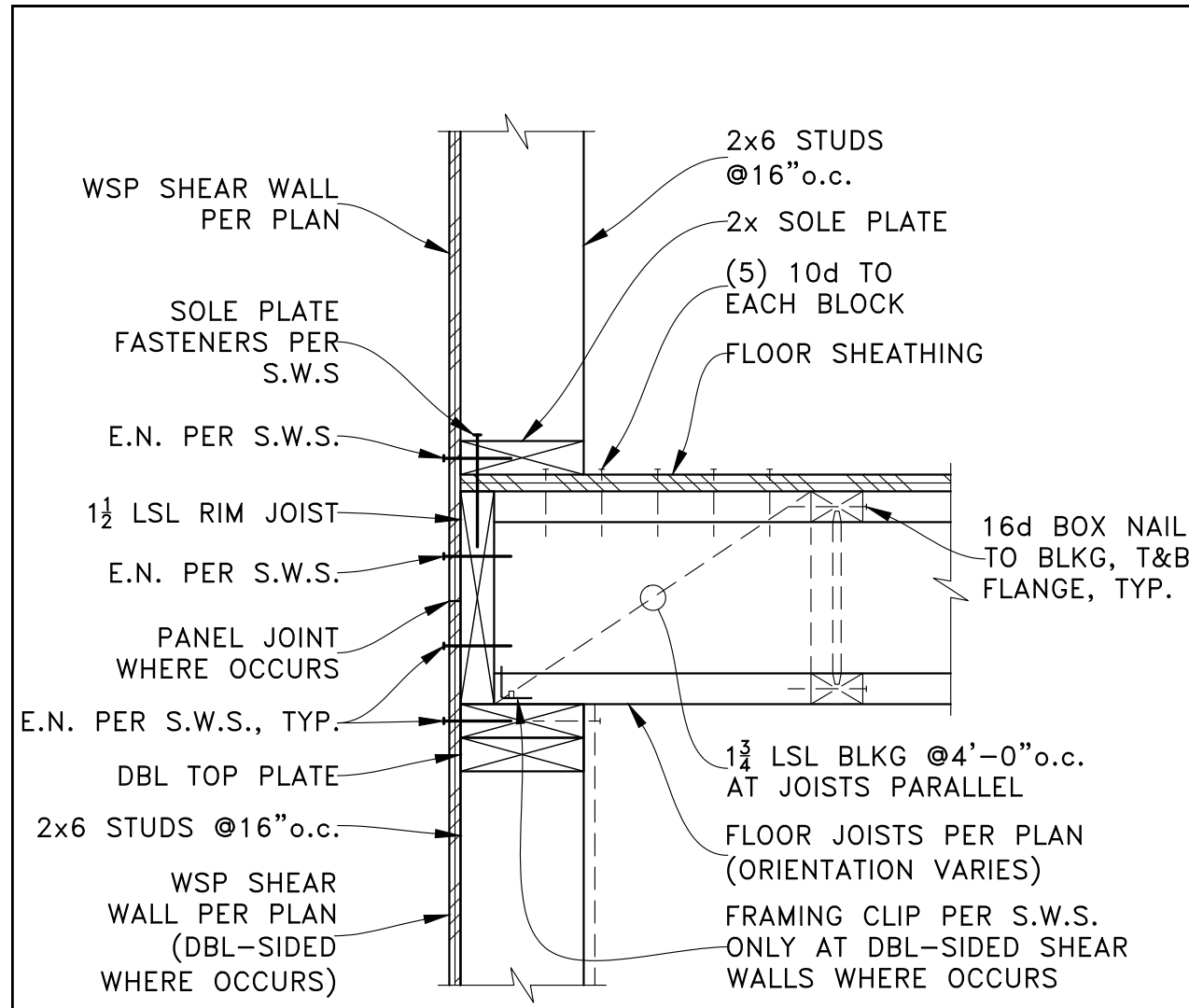
BOTTOM OF RUN @ LANDING



TOP OF RUN

INTERIOR STAIR
SCALE: NTS

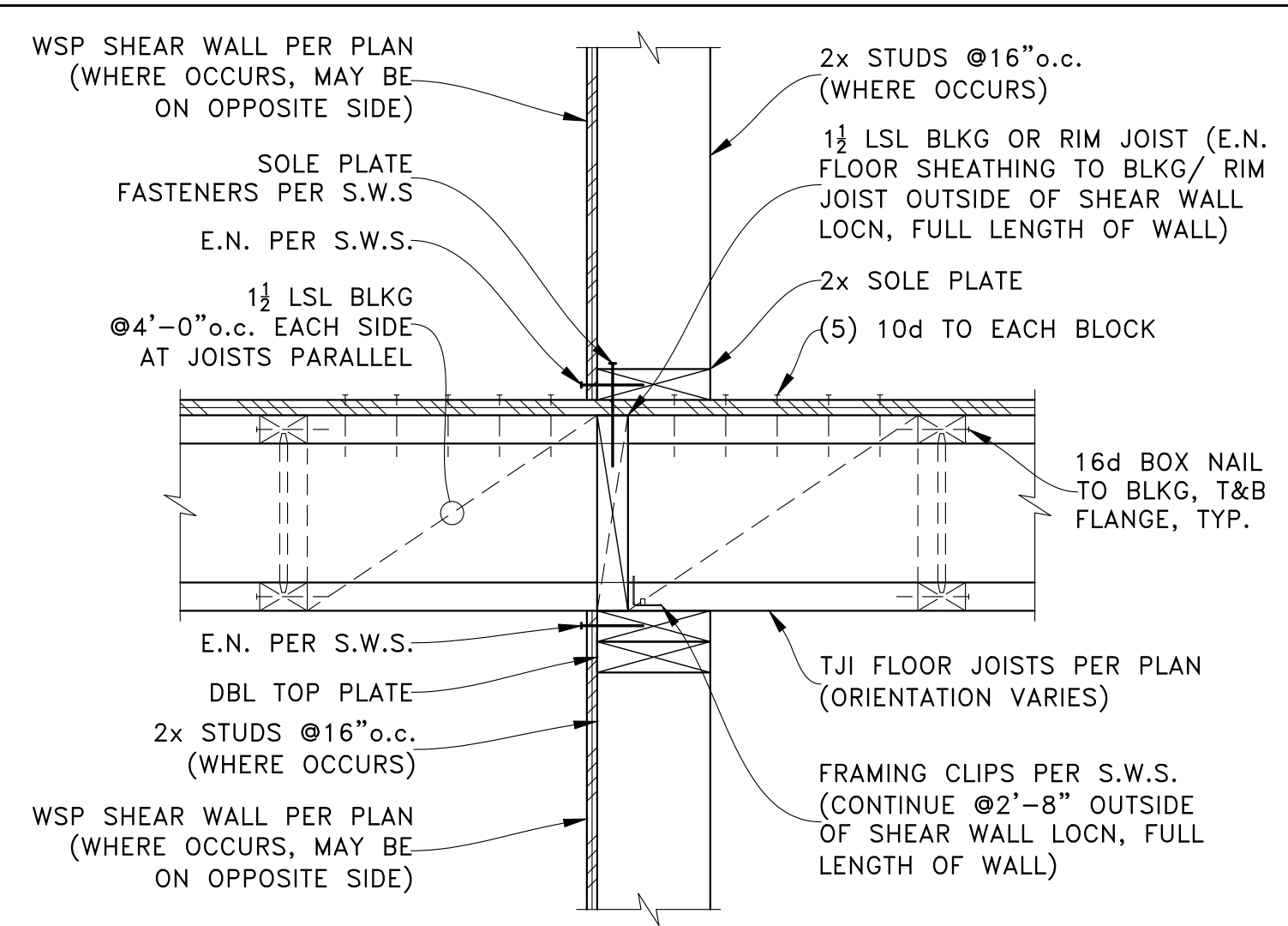
PERMIT SET	
07-25-23 1ST CORRECTION RESPONSE	DESCRIPTION
12-14-22 PERMIT SET	REV. DATE
PROJECT: NEW SINGLE-FAMILY DWELLING	
2423 60th Ave SE	
Mercer Island, WA 98040	
CLIENT:	Mary Smersh
	2423 60th Ave SE
	Mercer Island, WA 98040
	
ENGINEER OF RECORD	
O.G. ENGINEERING, PLLC	
3201 1st Ave S, Suite 101, Seattle, WA 98134	
(206) 290-4608	
owen@ogengineer.com	
SHEET TITLE	
SECTIONS & DETAILS	
SCALE: AS NOTED	SHEET NO.
JOB NO. 22004	S7



EXTERIOR WALL AT FLOOR

SCALE: NTS

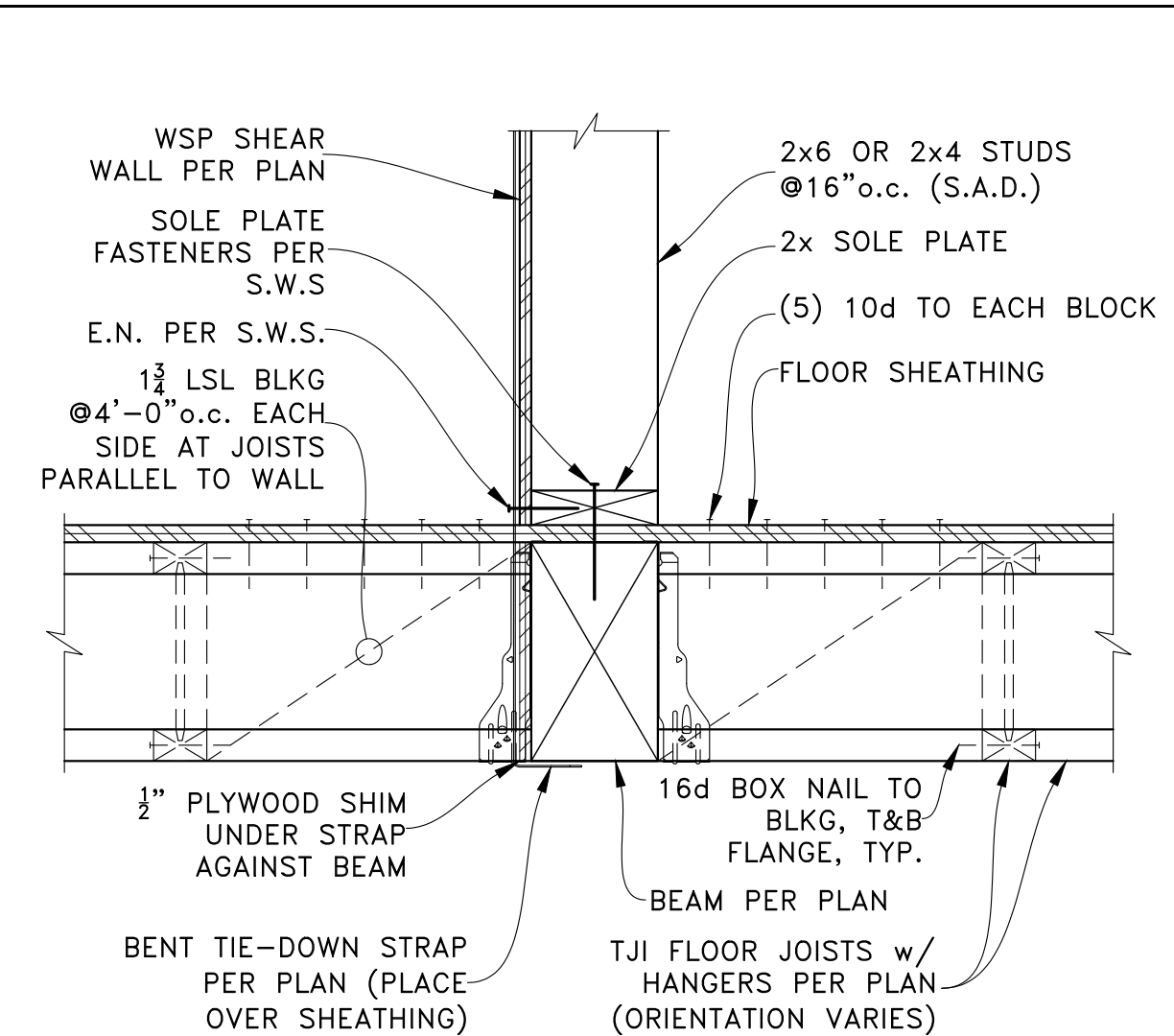
(A)



INTERIOR SHEAR WALL AT FLOOR

SCALE: NTS

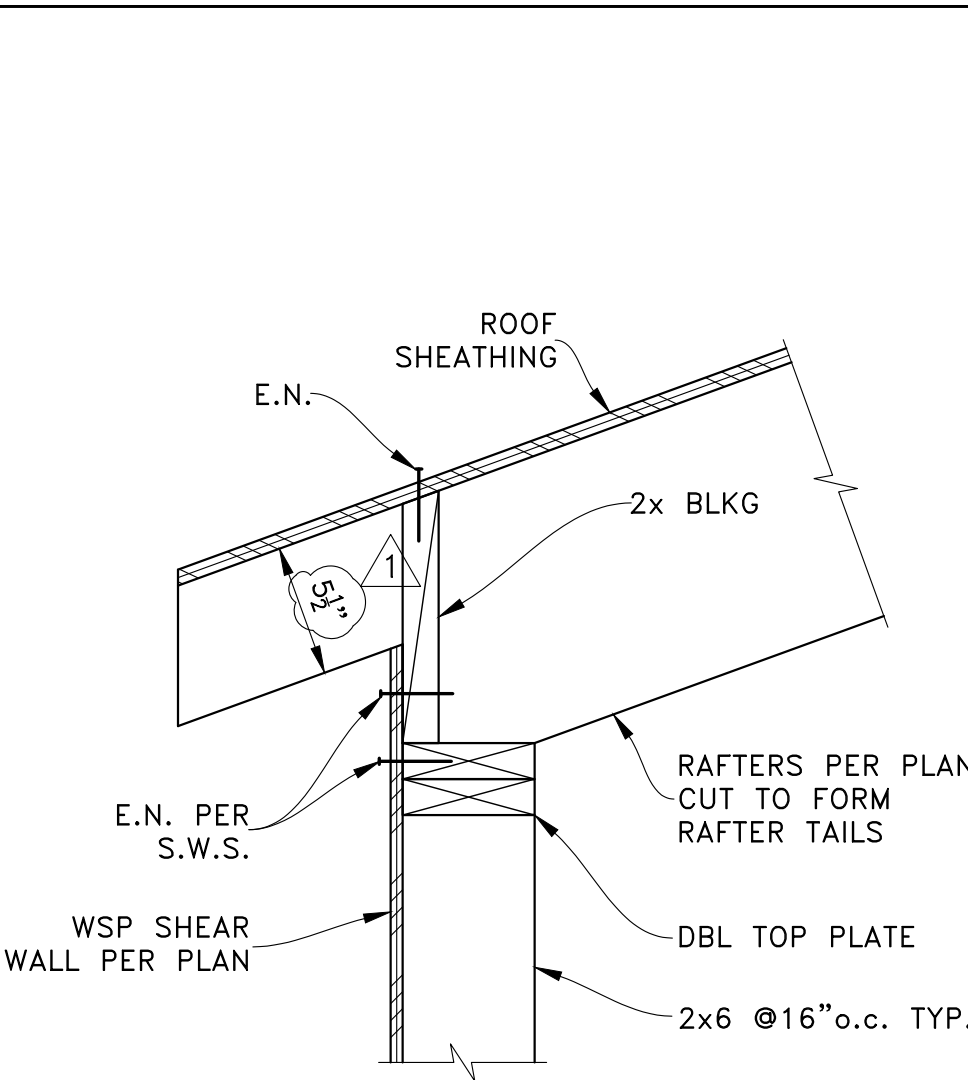
(B)



INTERIOR SHEAR WALL ON BEAM

SCALE: NTS

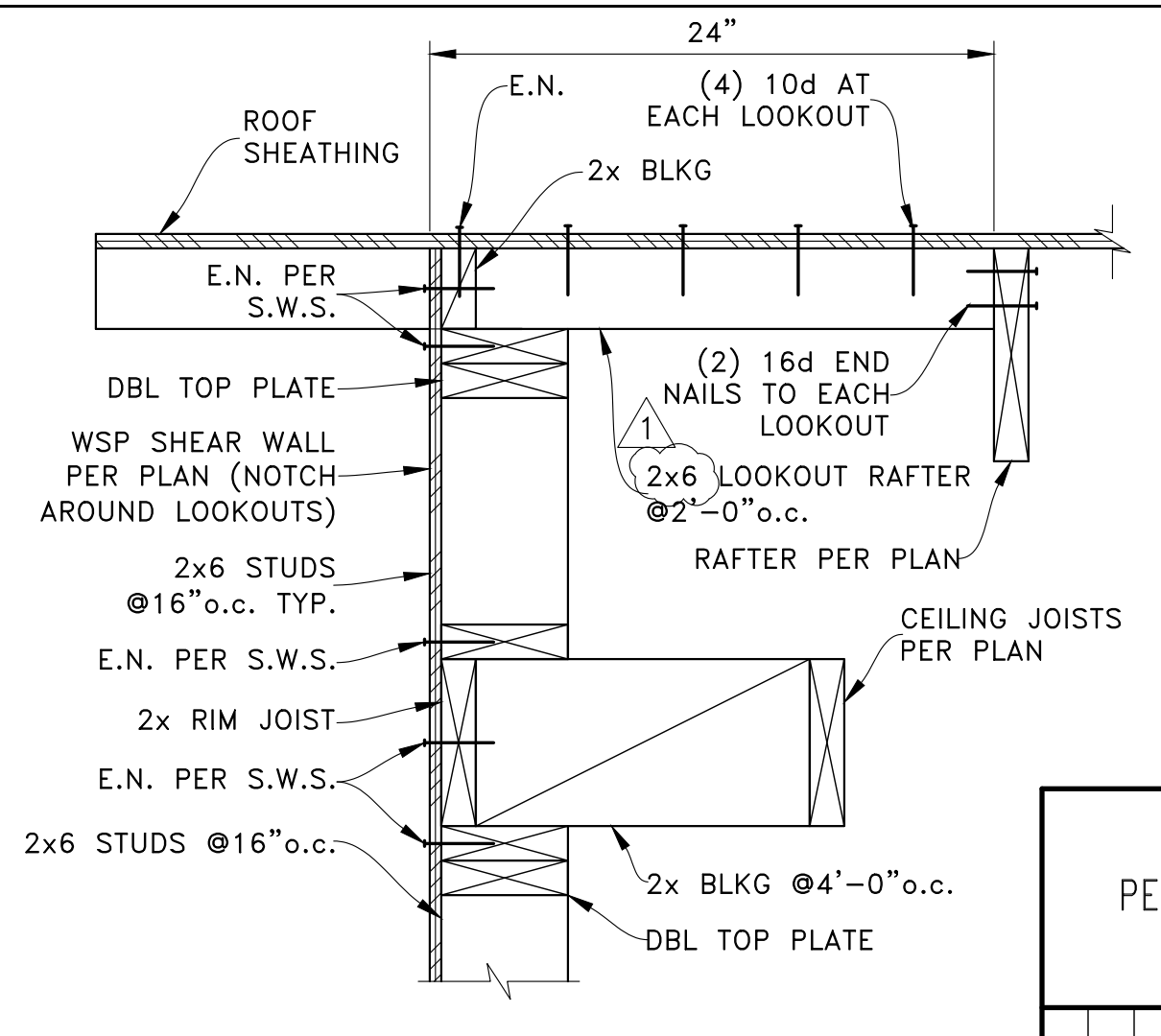
(C)



STICK ROOF EAVE

SCALE: NTS

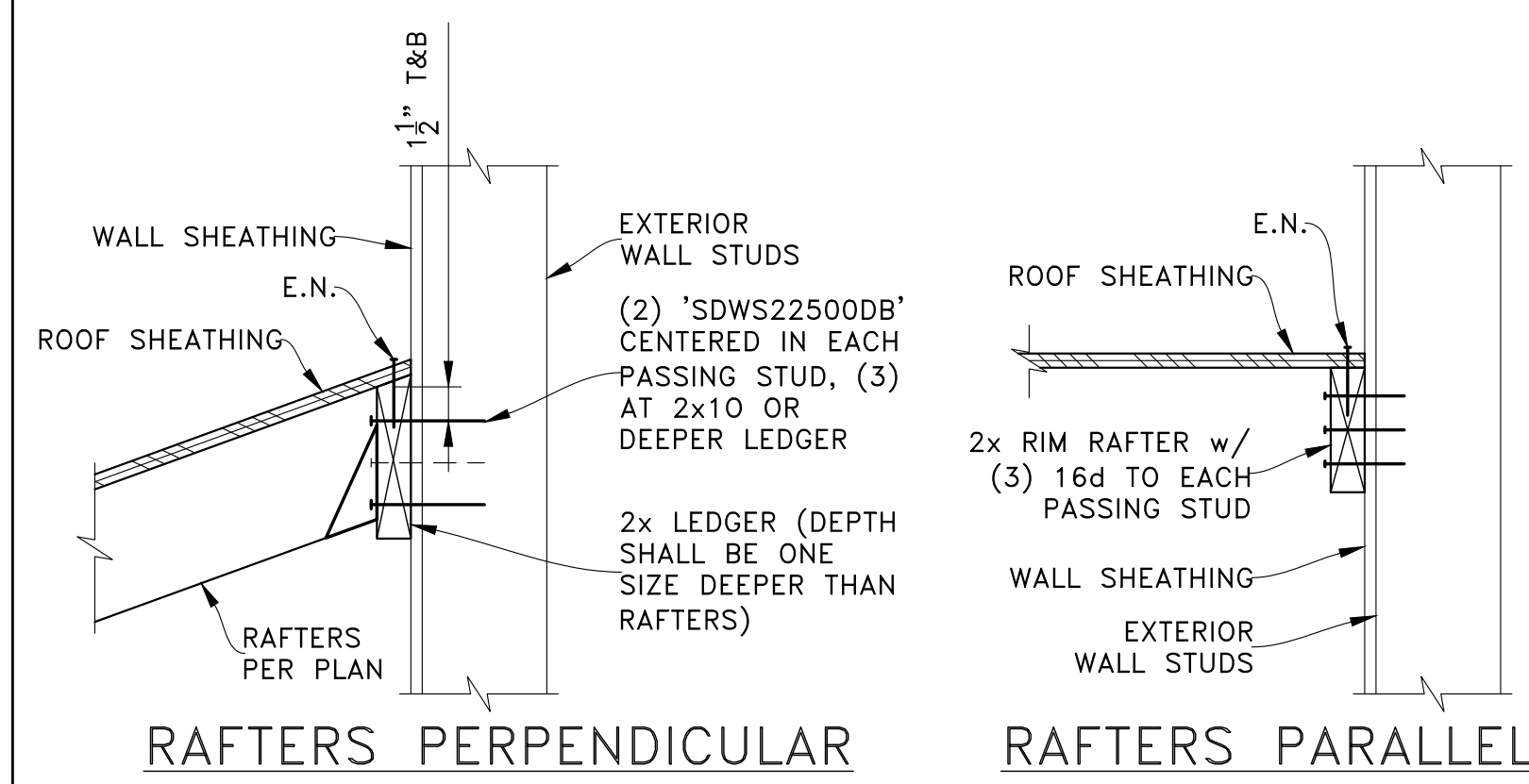
(D)



STICK ROOF RAKE

SCALE: NTS

(E)



RAFTERS PERPENDICULAR

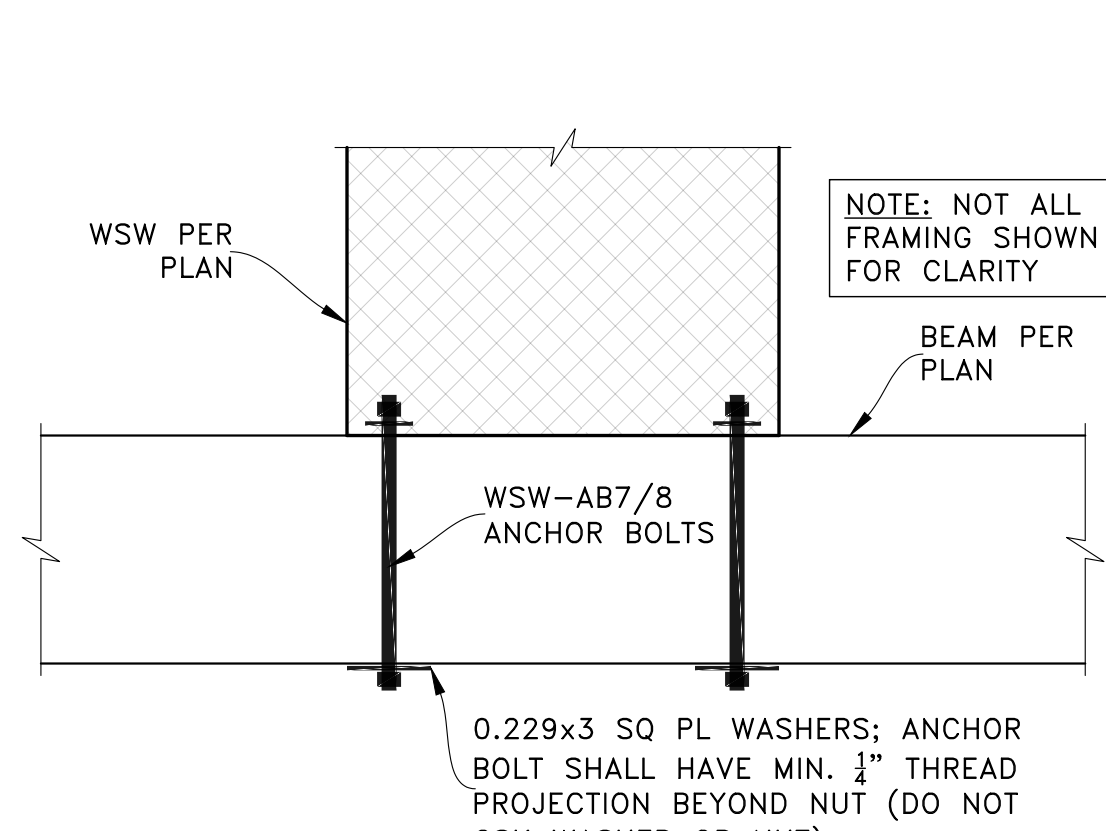
RAFTERS PARALLEL

STICK ROOF TO EXTERIOR WALL

SCALE: NTS

RIDGE BEAM

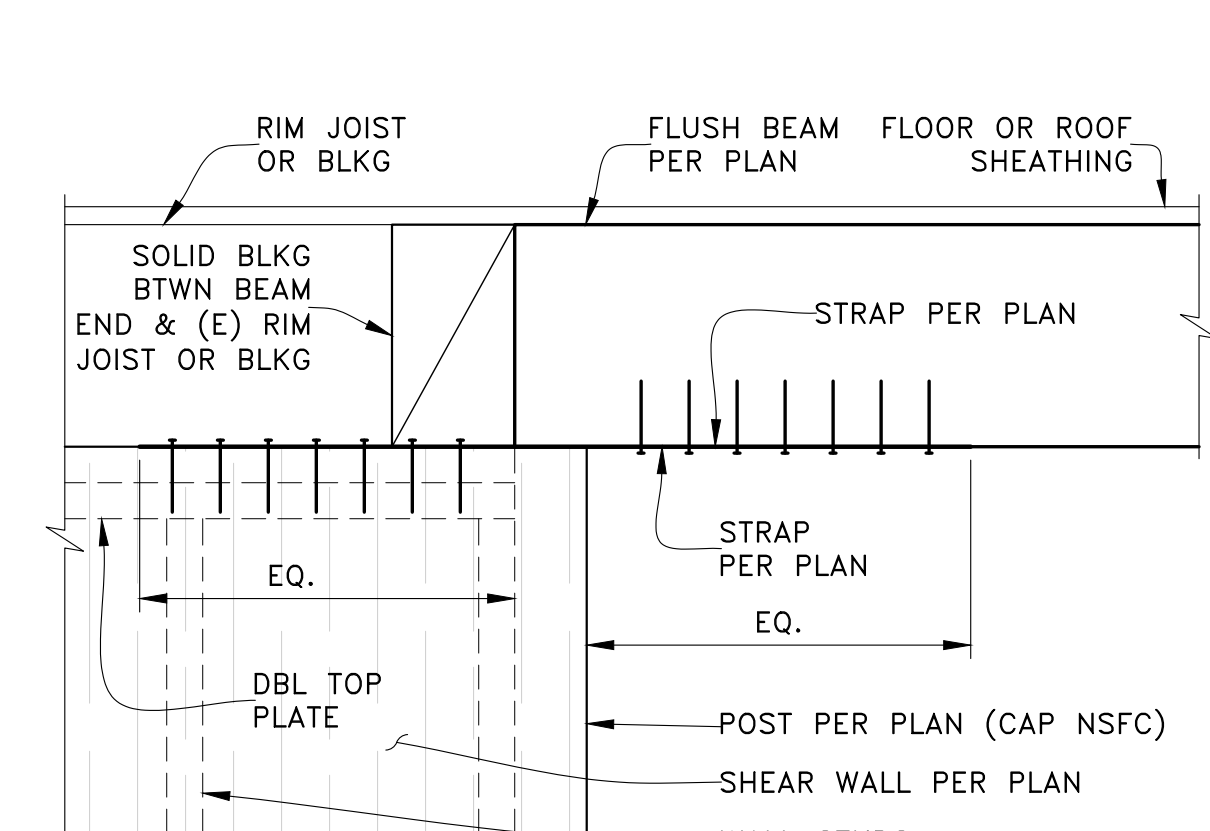
SCALE: NTS



WSW ON BEAM

SCALE: NTS

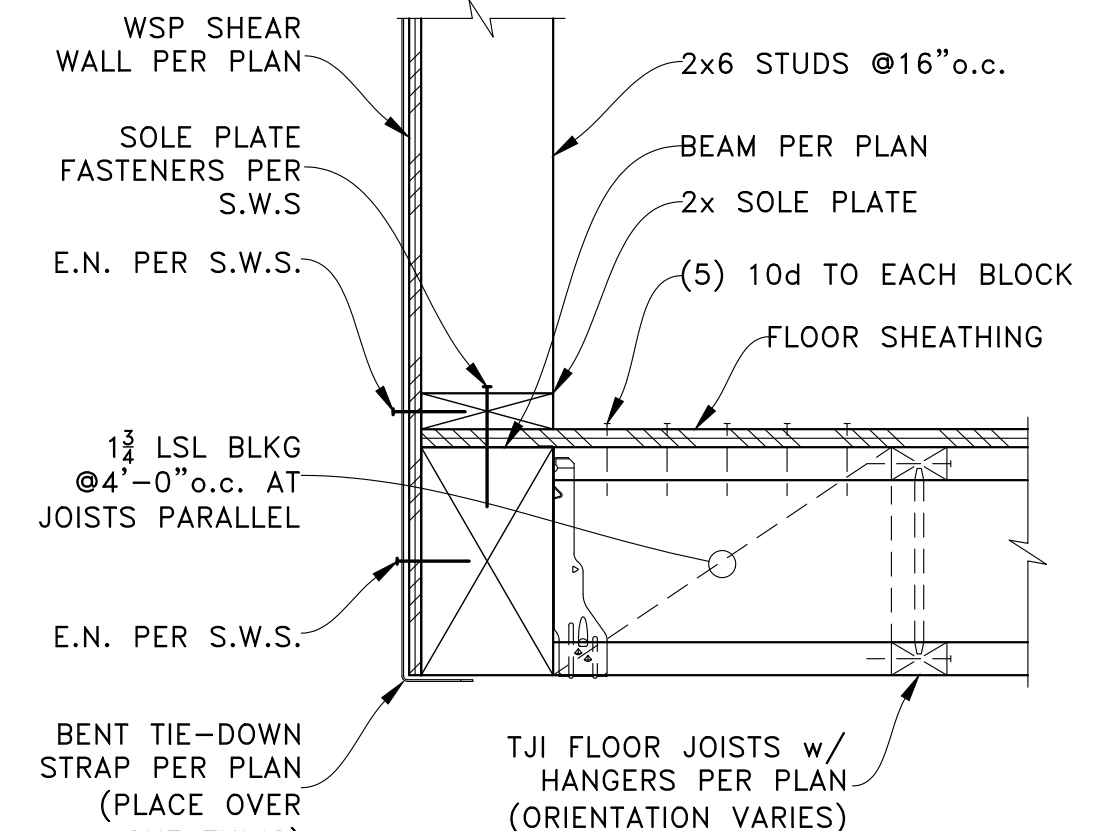
(H)



BEAM STRAP TO SHEAR WALL

SCALE: NTS

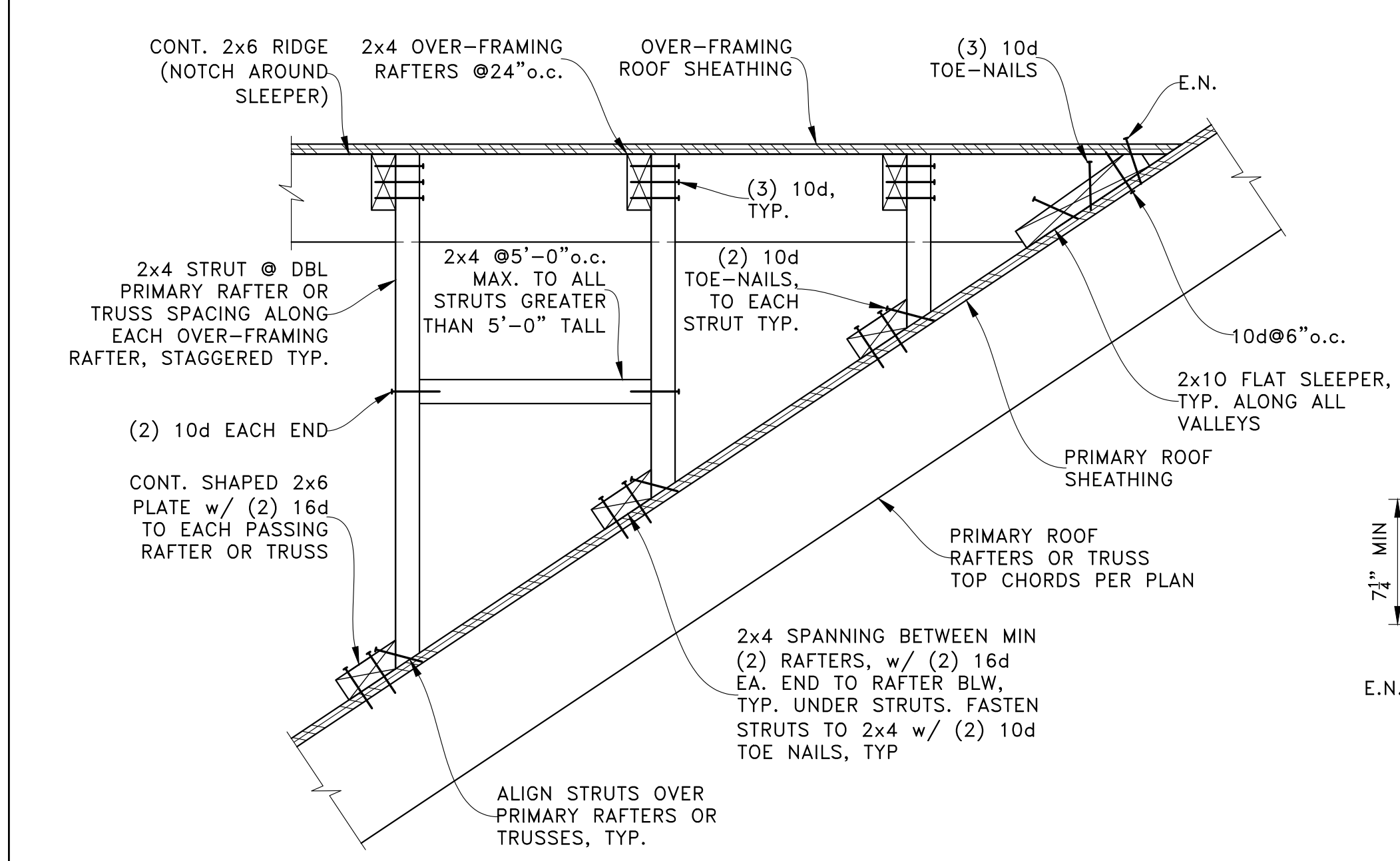
(I)



SHEAR WALL ON BEAM

SCALE: NTS

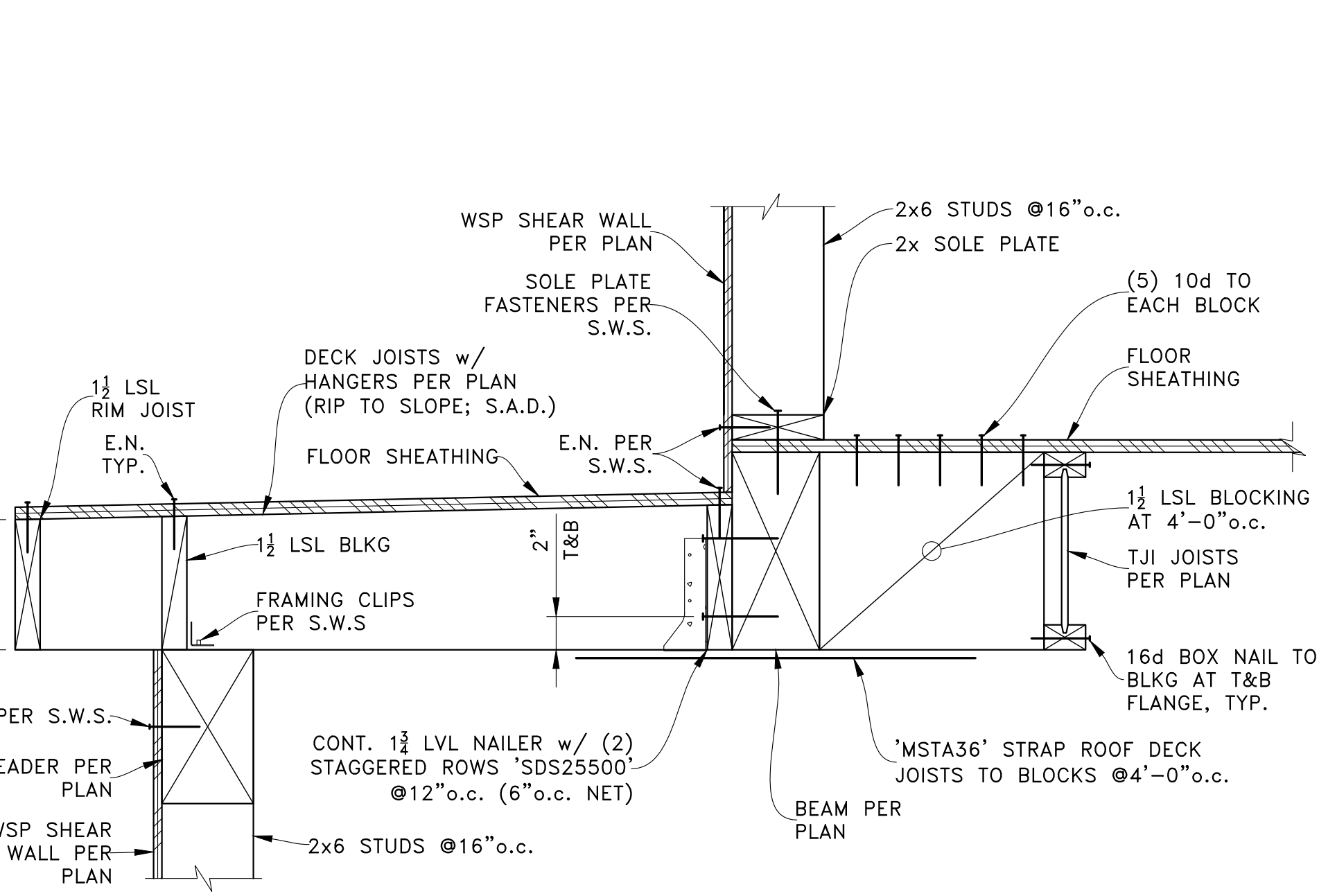
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TYPICAL OVER-FRAMING

SCALE: NTS

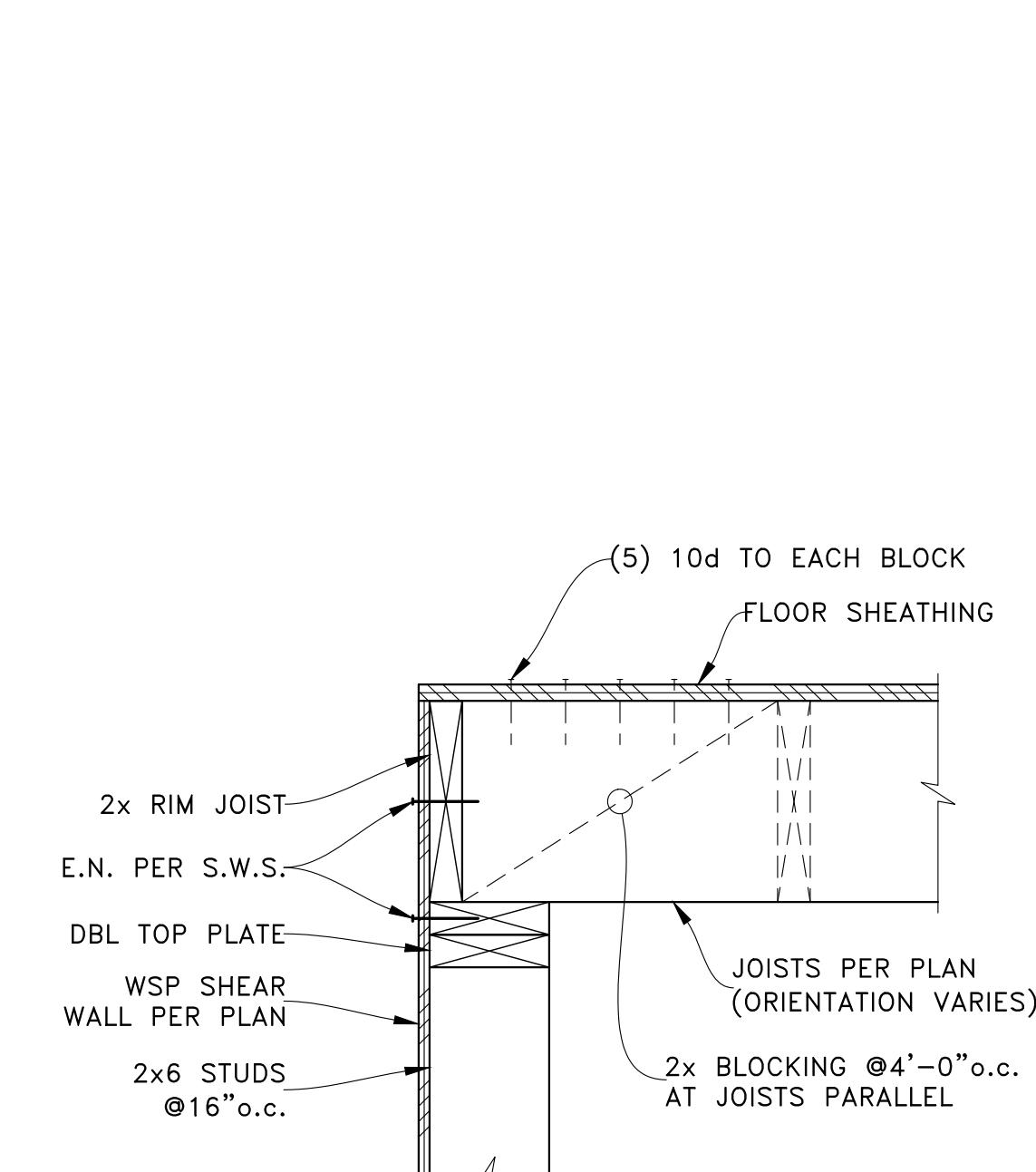
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ROOF DECK

SCALE: NTS

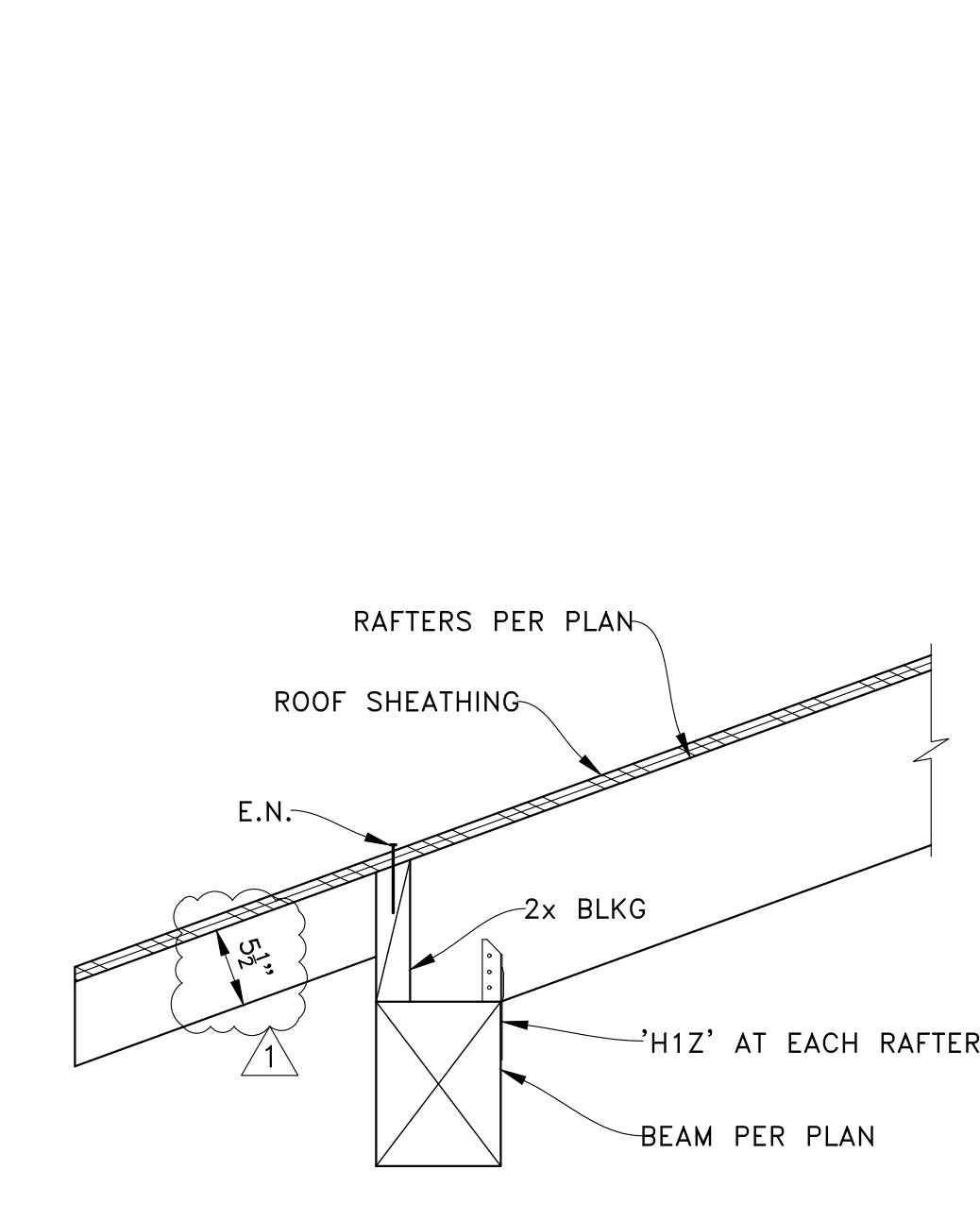
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ROOF DECK

SCALE: NTS


(M)

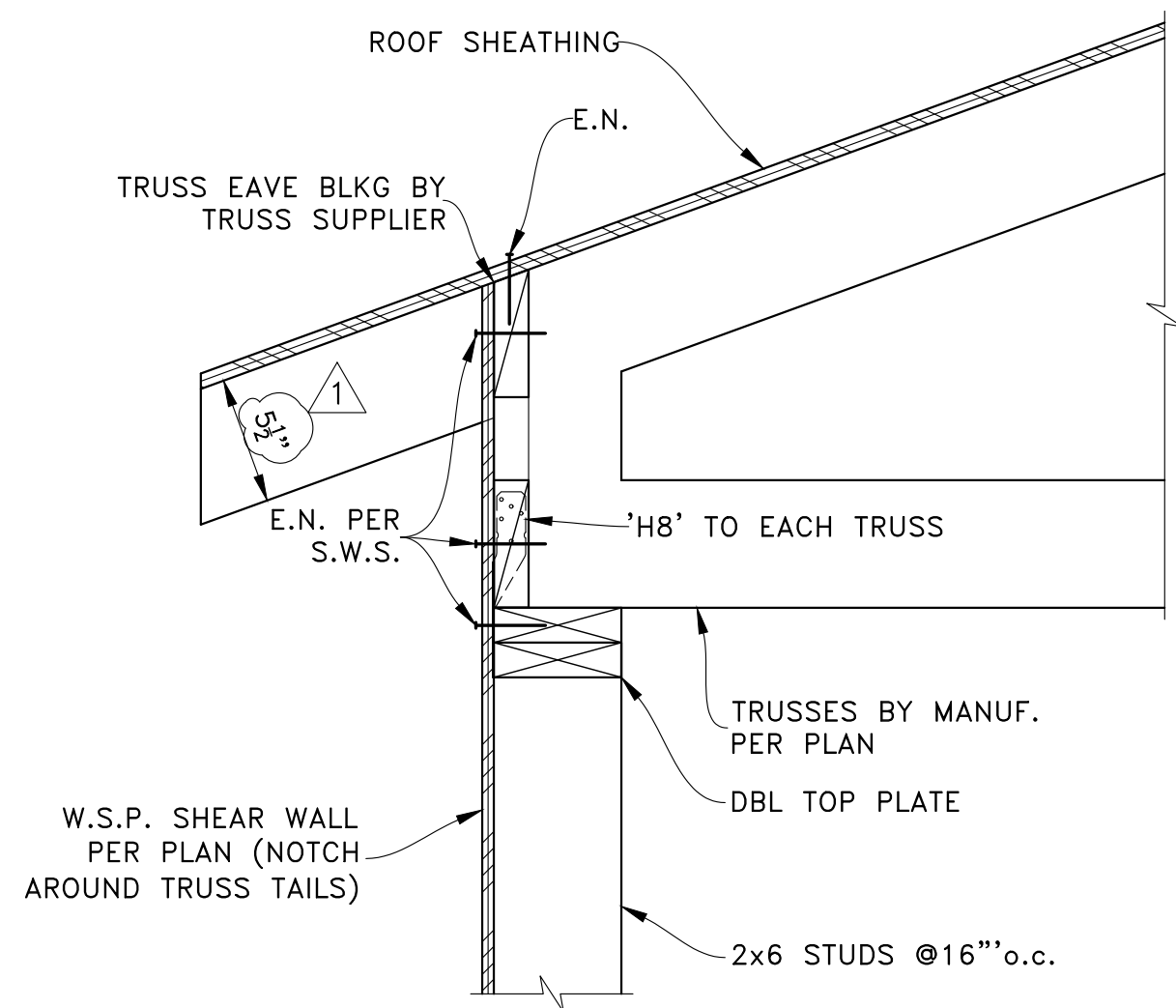


EAVE AT BEAM

SCALE: NTS

(N)

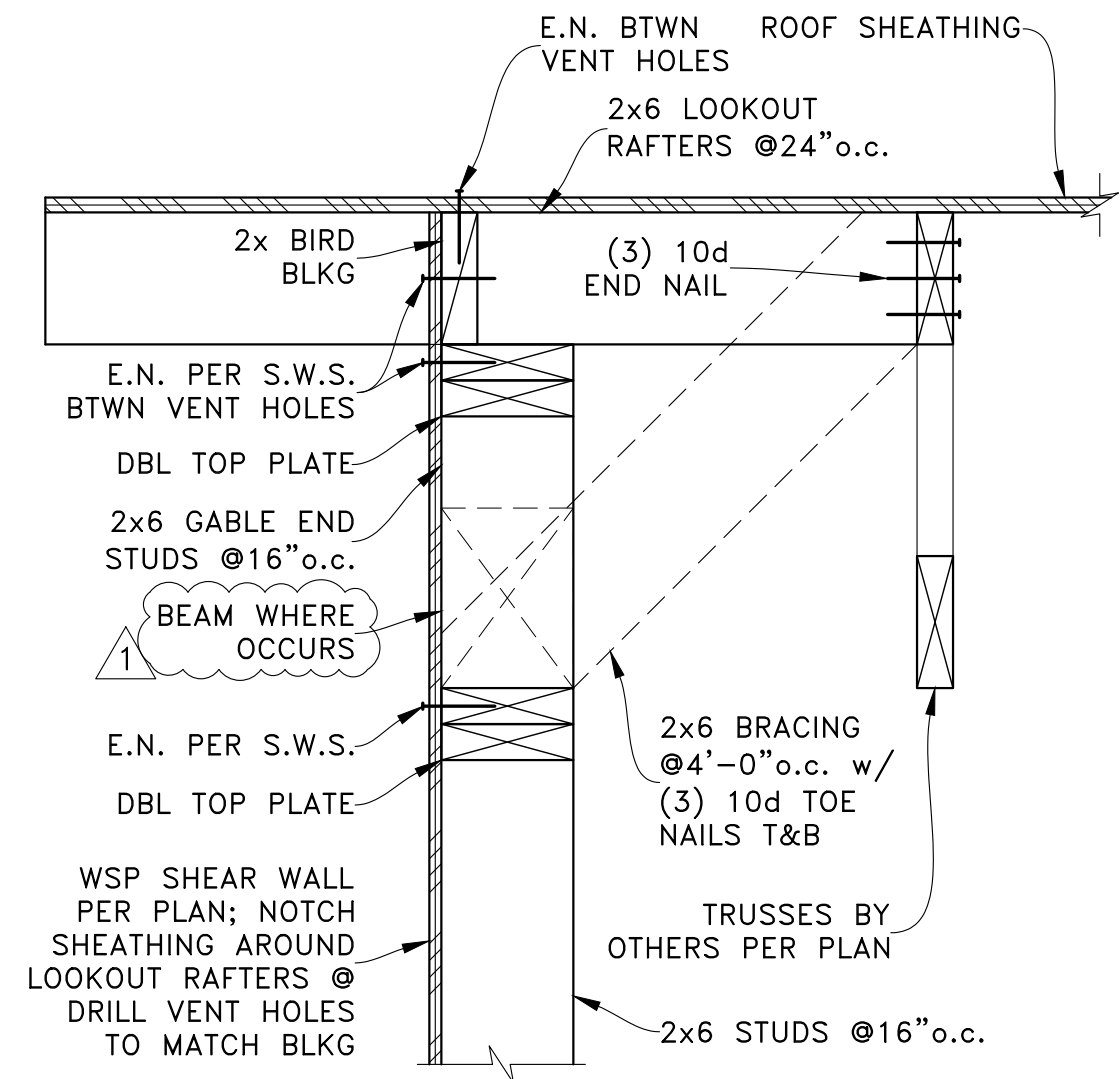
PERMIT SET	
07-25-23	1ST CORRECTION RESPONSE
12-14-22	PERMIT SET
REV	DATE
DESCRIPTION	
PROJECT: NEW SINGLE-FAMILY DWELLING	CLIENT: Mary Smersh
2423 60th Ave SE	2423 60th Ave SE
Mercer Island, WA 98040	Mercer Island, WA 98040
 OWEN REMICK, P.E. ENGINEER OF RECORD	
O.G. ENGINEERING, PLLC	
3201 1st Ave S, Suite 101, Seattle, WA 98134	
(206) 290-4608	
owen@ogengineer.com	
SHEET TITLE: SECTIONS & DETAILS	
SCALE: AS NOTED	SHEET NO. S8
JOB NO. 22004	



TRUSS ROOF EAVE

SCALE: NTS

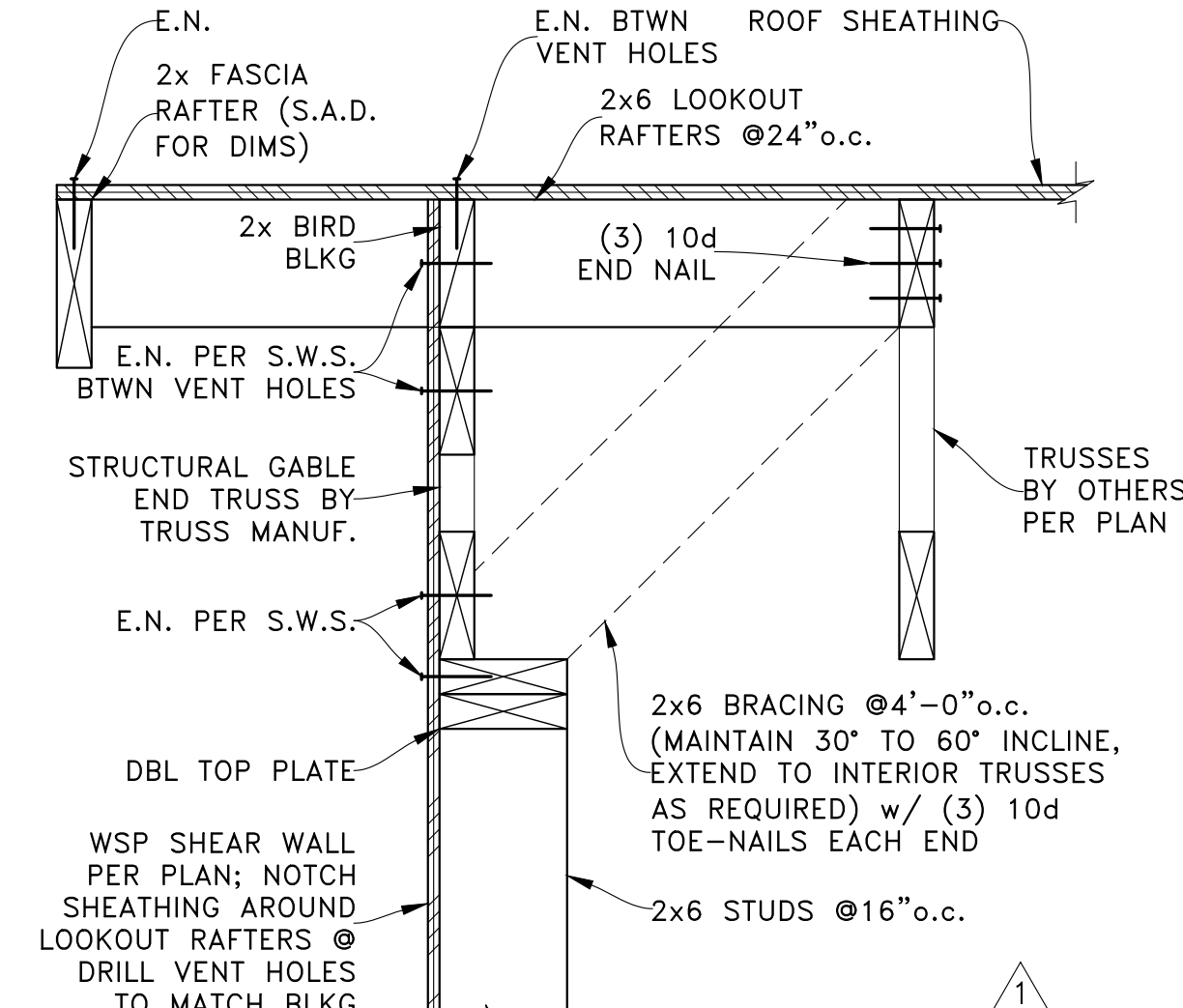
A



TRUSS ROOF RAKE

SCALE: NTS

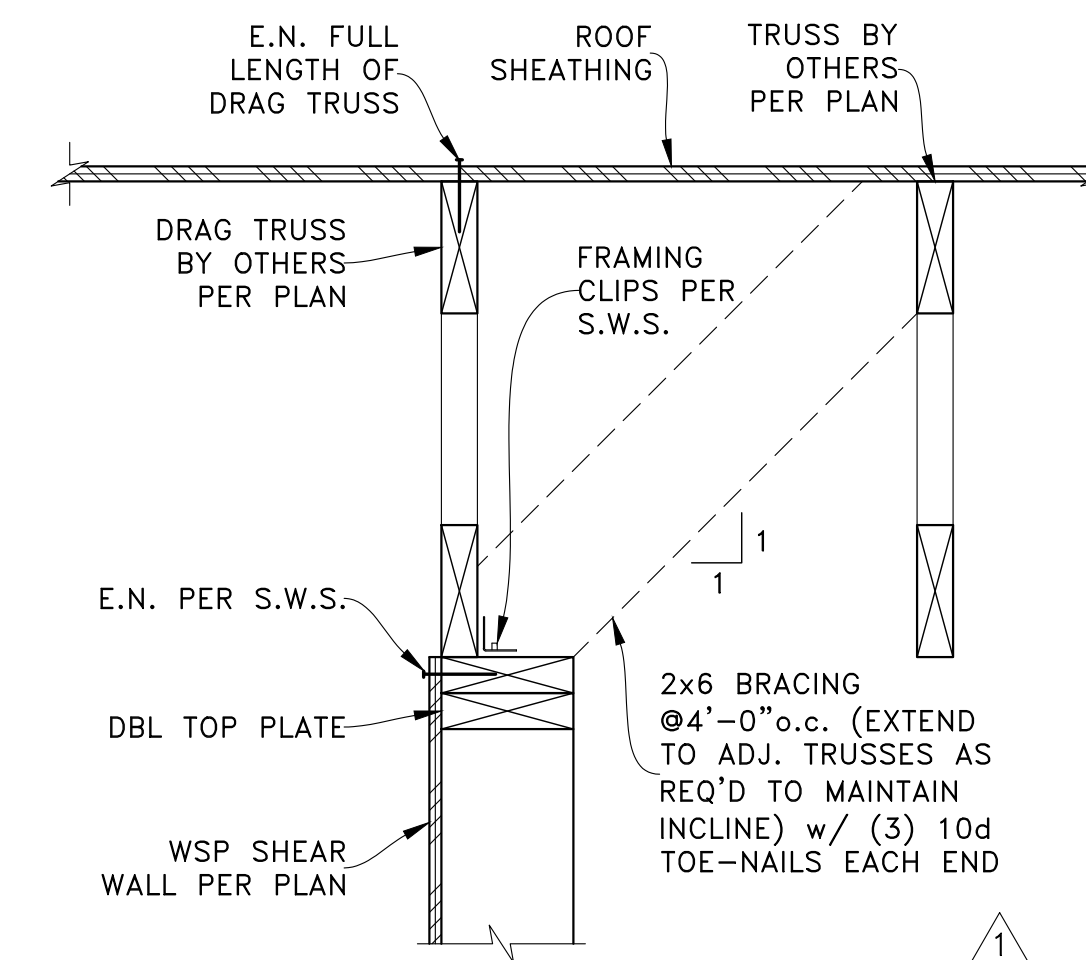
B



RAKE AT GABLE END TRUSS

SCALE: NTS

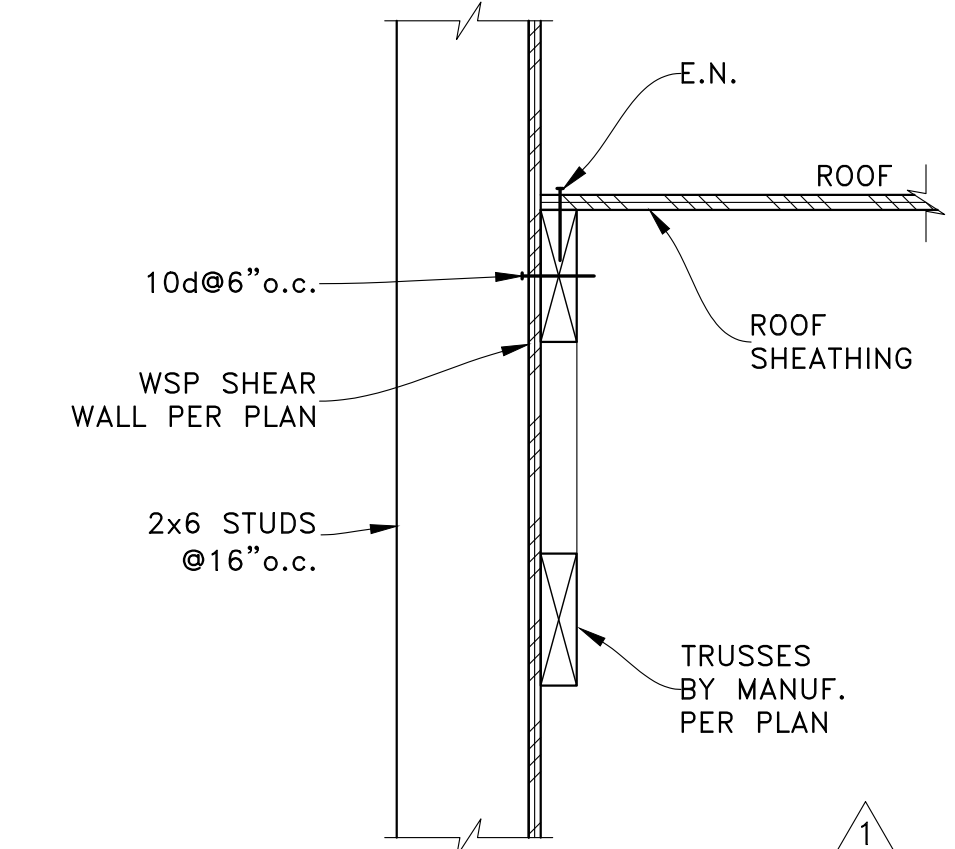
C



INTERIOR SHEAR WALL AT DRAG TRUSS

SCALE: NTS

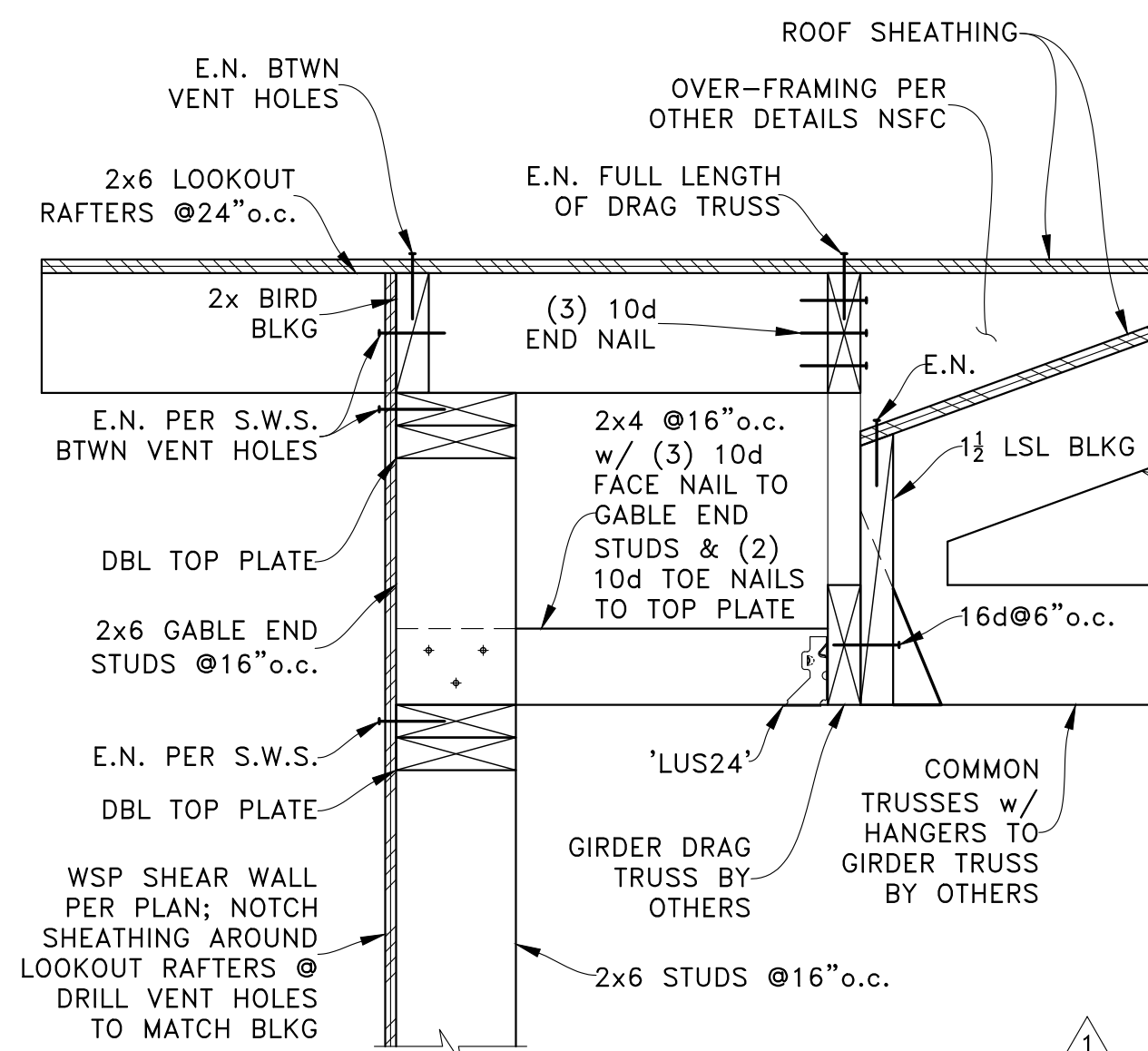
D



TRUSS ROOF TO WALL

SCALE: NTS

E



GIRDER DRAG TRUSS AT RAKE

SCALE: NTS

F

PERMIT SET

REV	DATE	DESCRIPTION
07-25-23	12-14-22	1ST CORRECTION RESPONSE PERMIT SET

PROJECT: NEW SINGLE-FAMILY DWELLING
2423 60th Ave SE
Mercer Island, WA 98040

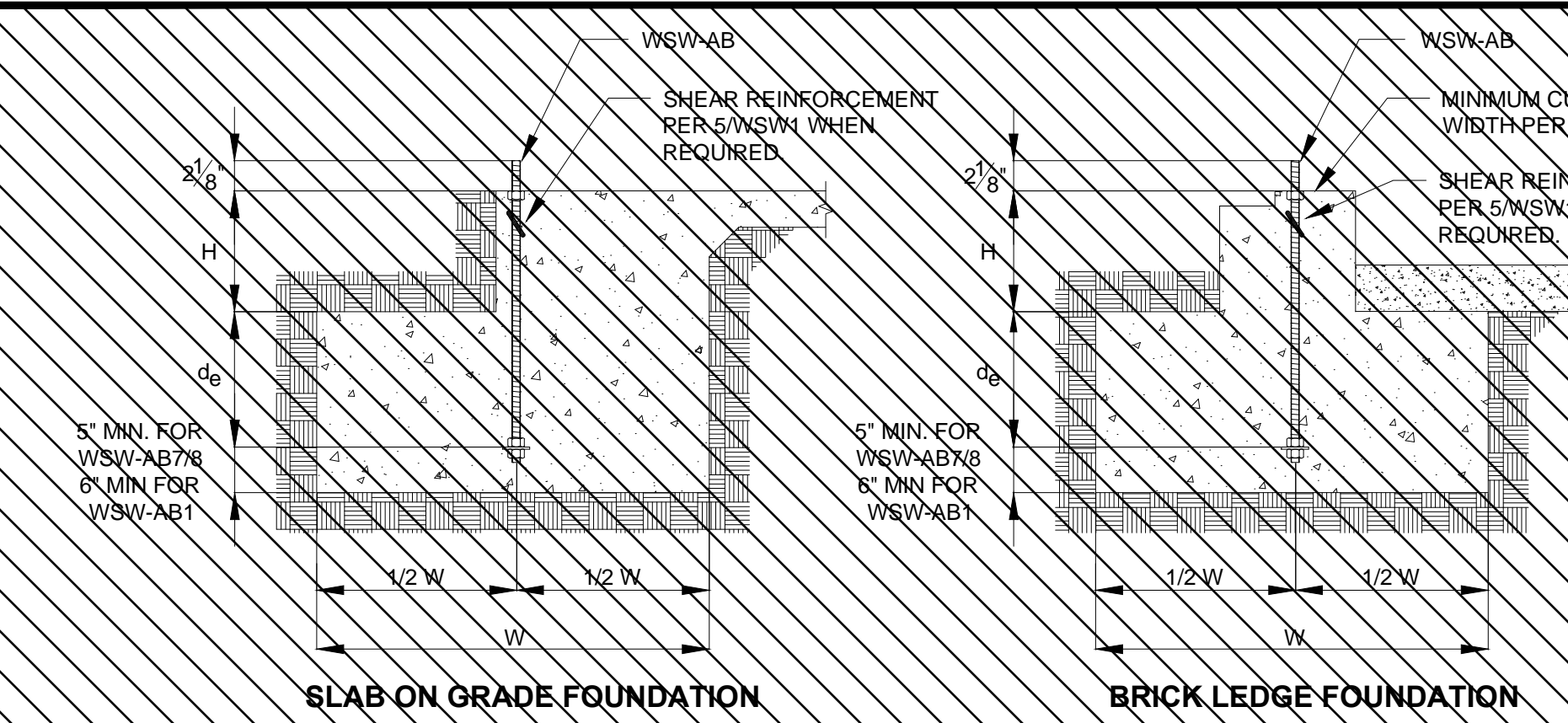
CLIENT: Mary Smersh
2423 60th Ave SE
Mercer Island, WA 98040



ENGINEER OF RECORD

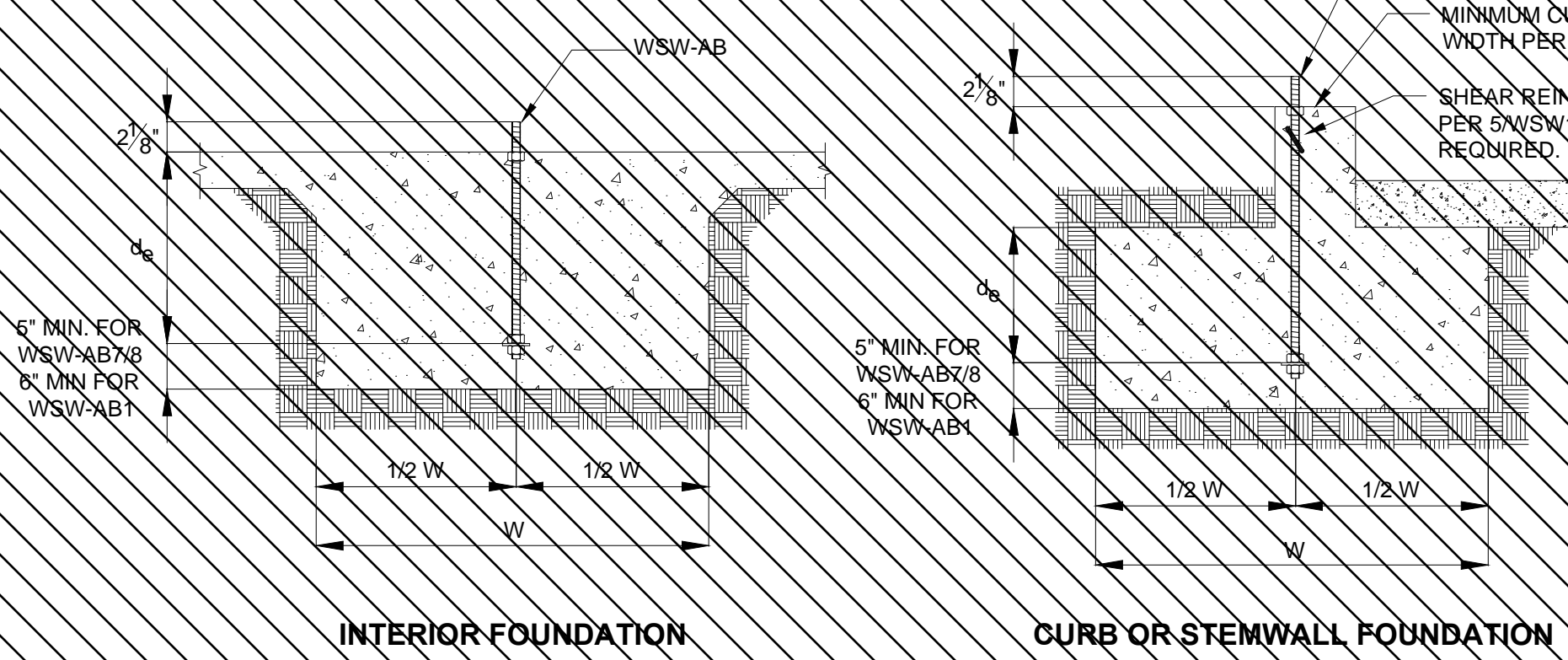
O.G. ENGINEERING, PLLC
3201 1st Ave S, Suite 101, Seattle, WA 98134
(206) 290-4608
owen@ogengineer.com

SHEET TITLE: SECTIONS & DETAILS

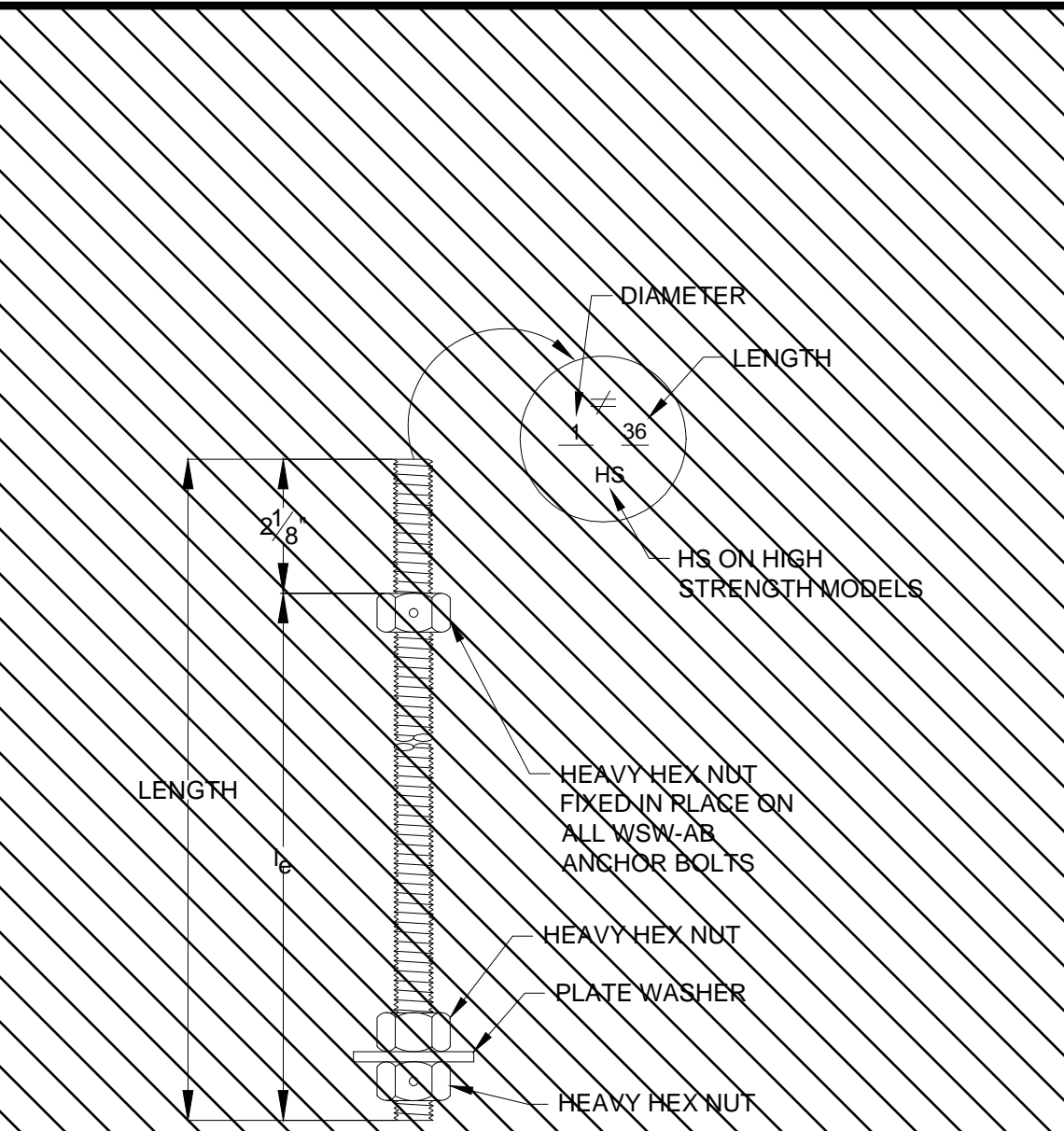


NOTES:
 1. SEE 2/WSW FOR DIMENSIONS AND ADDITIONAL NOTES.
 2. SEE 5/WSW FOR SHEAR REINFORCEMENT WHEN REQUIRED.
 3. MAXIMUM H = l_e - d_s. SEE 3/WSW1 AND 4/WSW1 FOR l_e.

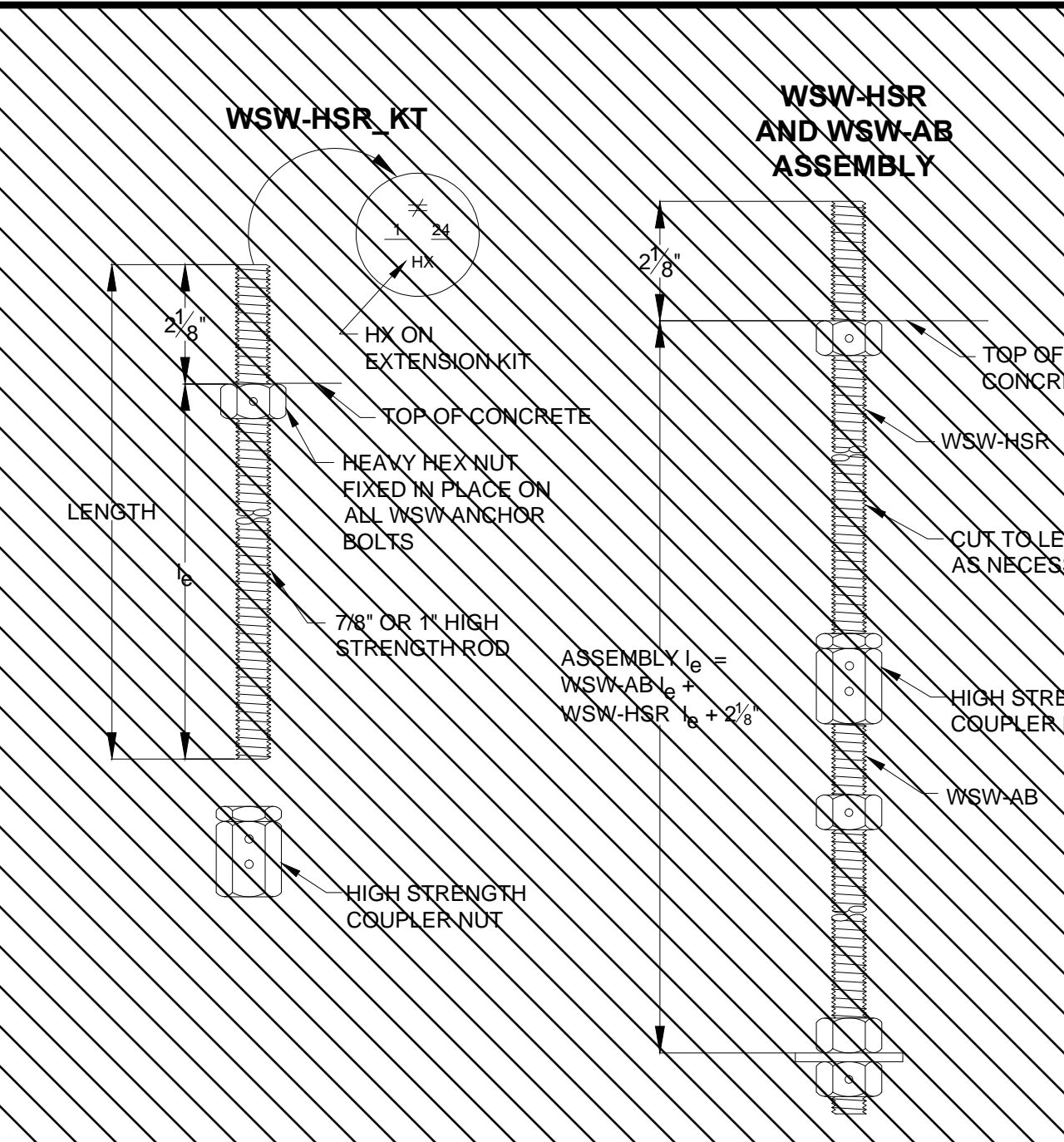
REGISTERED DESIGN PROFESSIONAL IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.



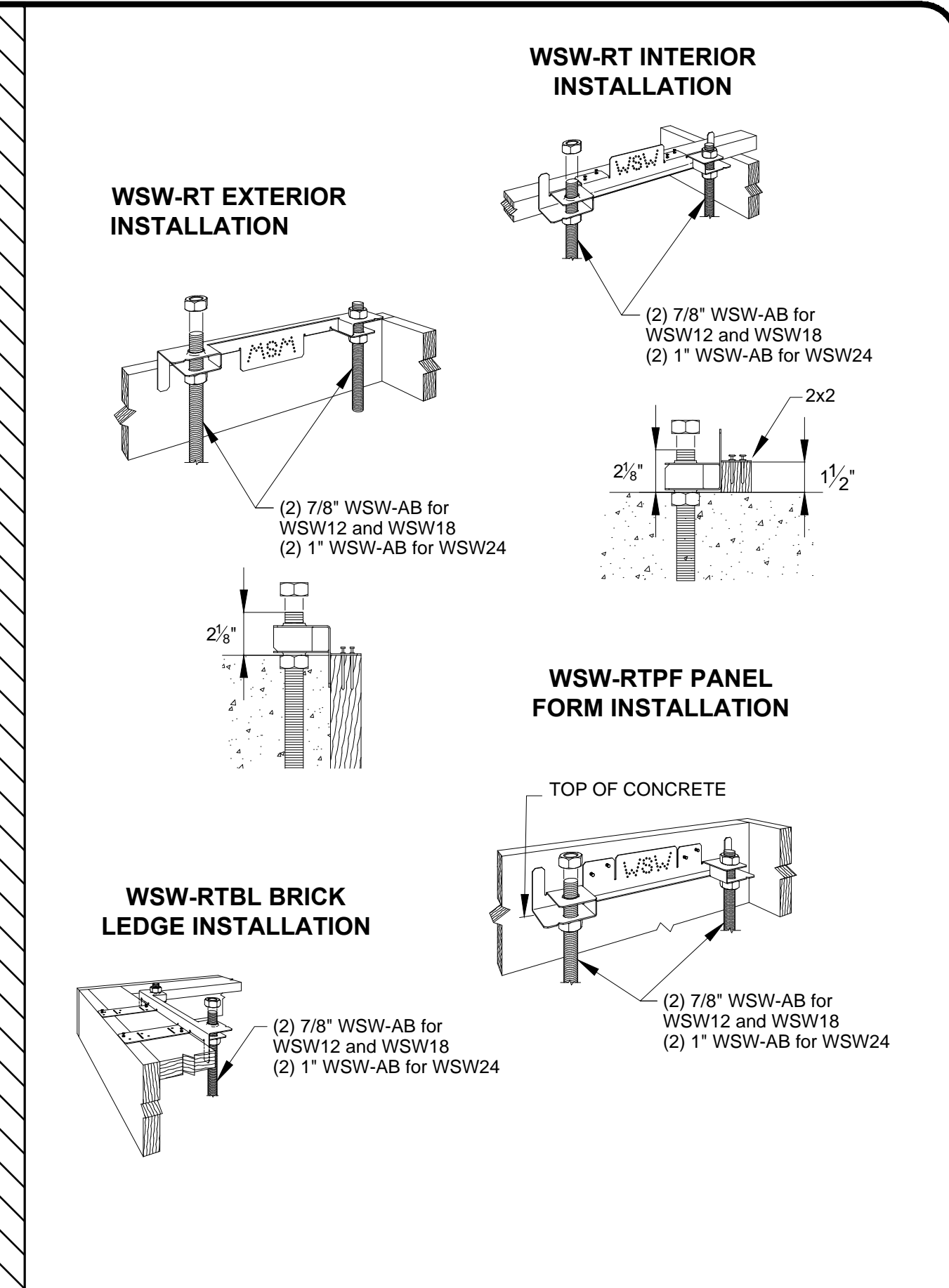
STRONG-WALL® WSW ANCHORAGE - TYPICAL SECTIONS



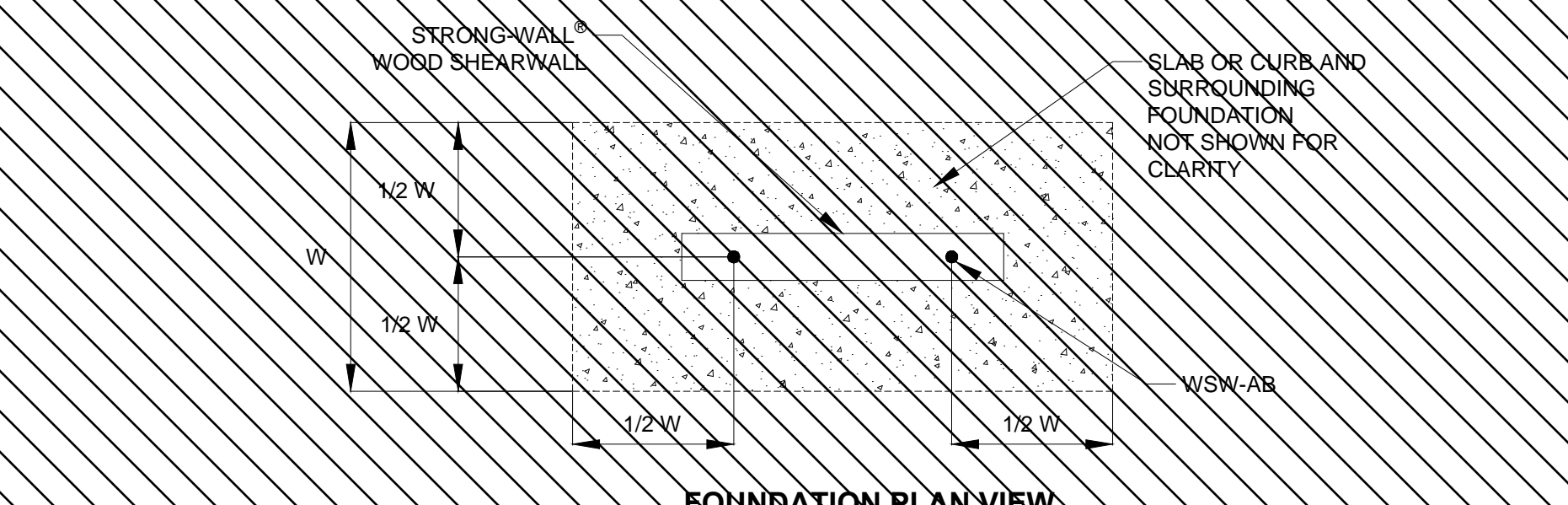
WSW PANEL MODEL	MODEL NO.	DIAMETER	LENGTH	l _e
WSW12 AND WSW18	WSW-AB7/8x24	7/8"	24"	26"
	WSW-AB7/8x24HS	7/8"	24"	20"
	WSW-AB7/8x30	7/8"	30"	26"
	WSW-AB7/8x30HS	7/8"	30"	26"
	WSW-AB7/8x36HS	7/8"	36"	32"
WSW24	WSW-AB1x24	1"	24"	26"
	WSW-AB1x36	1"	36"	32"



WSW PANEL MODEL	MODEL NO.	DIAMETER	LENGTH	l _e
WSW12 AND WSW18	WSW-HSR7/8x24KT	7/8"	24"	22"
	WSW-HSR7/8x36KT	7/8"	36"	34"
WSW24	WSW-HSR1x24KT	1"	24"	22"
	WSW-HSR1x36KT	1"	36"	34"



WSW ANCHOR BOLT TEMPLATES



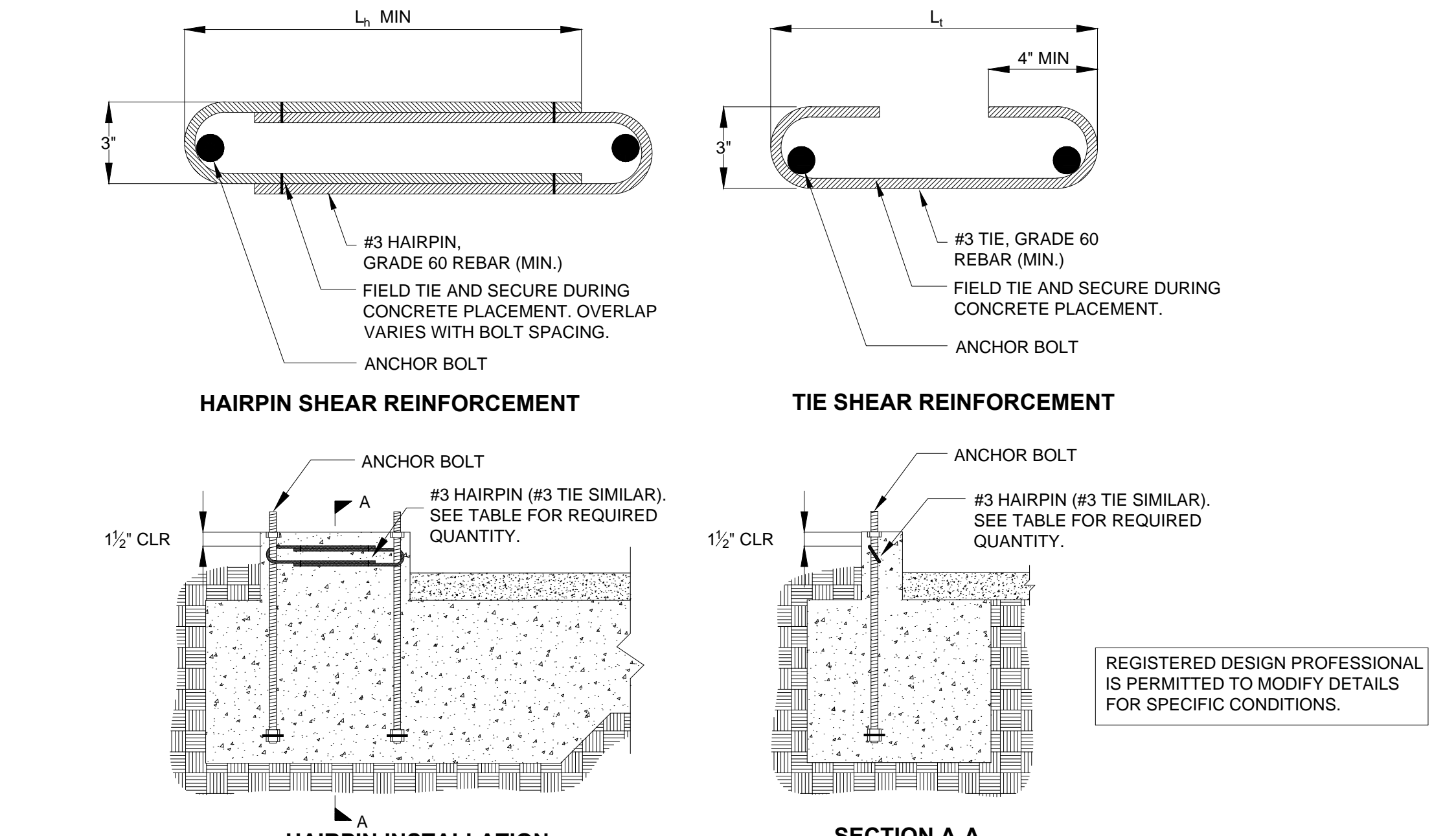
DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	WSW-AB7/8 ANCHOR BOLT				WSW-AB1 ANCHOR BOLT			
			ASD ALLOWABLE TENSION (lb.)	W (in.)	d _s (in.)	l _e (in.)	ASD ALLOWABLE TENSION (lb.)	W (in.)	d _s (in.)	l _e (in.)
SEISMIC	CRACKED	STANDARD	13,100	27	9	16,100	33	11		
		HIGH STRENGTH	24,900	43	16	33,000	51	17		
		UNCRACKED	STANDARD	13,100	25	9	17,100	30	10	
		HIGH STRENGTH	25,300	38	13	32,300	44	15		
	WIND	CRACKED	STANDARD	8,700	20	7	11,400	24	8	
			HIGH STRENGTH	18,400	35	11	27,300	42	14	
		UNCRACKED	STANDARD	9,300	18	6	12,500	22	8	
			HIGH STRENGTH	19,500	30	10	26,400	36	12	

DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	WSW ANCHORAGE SOLUTIONS FOR 4000 PSI CONCRETE							
			WSW-AB7/8 ANCHOR BOLT				WSW-AB1 ANCHOR BOLT			
			ASD ALLOWABLE TENSION (lb.)	W (in.)	d _s (in.)	l _e (in.)	ASD ALLOWABLE TENSION (lb.)	W (in.)	d _s (in.)	l _e (in.)
SEISMIC	CRACKED	STANDARD	12,380	26	9	16,000	31	11		
		HIGH STRENGTH	25,200	41	14	32,700	48	16		
		UNCRACKED	STANDARD	12,000	22	8	16,300	27	9	
		HIGH STRENGTH	27,100	43	15	35,300	51	17		
	WIND	CRACKED	STANDARD	5,000	13	6	6,600	14	6	
			HIGH STRENGTH	8,800	19	7	10,200	21	7	
		UNCRACKED	STANDARD	5,800	12	6	7,800	13	6	
			HIGH STRENGTH	11,100	22	8	17,100	26	9	

DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH	WSW ANCHORAGE SOLUTIONS FOR 4500 PSI CONCRETE							
			WSW-AB7/8 ANCHOR BOLT				WSW-AB1 ANCHOR BOLT			
			ASD ALLOWABLE TENSION (lb.)	W (in.)	d _s (in.)	l _e (in.)	ASD ALLOWABLE TENSION (lb.)	W (in.)	d _s (in.)	l _e (in.)
SEISMIC	CRACKED	STANDARD	12,600	24	8	16,000	27	9		
		HIGH STRENGTH	24,800	40	12	32,100	42	14		
		UNCRACKED	STANDARD	12,700	20	7	15,700	23	8	
		HIGH STRENGTH	27,100	43	15	35,300	51	17		
	WIND	CRACKED	STANDARD	6,800	12	6	8,800	12	6	
			HIGH STRENGTH	13,100	22	8	17,100	26	9	
		UNCRACKED	STANDARD	9,400	15	6	12,400	18	6	
			HIGH STRENGTH	19,500	25	9	26,700	38	12	

NOTES:
 1. ANCHORAGE DESIGNS CONFORM TO ACI 318-11 APPENDIX D AND ACI 318-14 WITH NO SUPPLEMENTARY REINFORCEMENT FOR CRACKED OR UNCRACKED CONCRETE AS NOTED.
 2. ANCHOR STRENGTH INDICATES REQUIRED GRADE OF WSW-AB ANCHOR BOLT. STANDARD (ASTM F1554 GRADE 36) OR HIGH STRENGTH (HS) (ASTM A690).
 3. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C - F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS. SEISMIC ANCHORAGE DESIGNS CONFORM TO ACI 318-11 SECTION D.3.3.4, 3 AND ACI 318-14 SECTION 17.2.3.4.3.
 4. WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C.
 5. FOUNDATION DIMENSIONS ARE FOR ANCHORAGE ONLY. FOUNDATION DESIGN (SIZE AND REINFORCEMENT) BY OTHERS. THE REGISTERED DESIGN PROFESSIONAL MAY SPECIFY ALTERNATE EMBEDMENT, FOOTING SIZE OR ANCHOR BOLT.
 6. REFER TO 4/WSW FOR d_s.

STRONG-WALL® WOOD SHEARWALL TENSION ANCHORAGE SCHEDULE 2,500, 3,000 AND 4,500 PSI



MODEL	L ₁ OR L ₂ (in.)	STRONG-WALL® WOOD SHEARWALL SHEAR ANCHORAGE					
		SEISMIC ³		WIND ⁴			
		SHEAR REINFORCEMENT	MINIMUM CURB/STEMWALL WIDTH (in.)	SHEAR REINFORCEMENT	MINIMUM CURB/STEMWALL WIDTH (in.)		
WSW12	10 1/4	(1) #3 HAIRPIN	8 ⁵	SEE NOTE 6	ASD ALLOWABLE SHEAR LOAD, V (lb.) ⁶		
					UNCRACKED	CRACKED	
WSW18	15	(1) #3 HAIRPIN	8 ⁵	(1) #3 HAIRPIN	6	1,035	740
WSW24	19	(2) #3 HAIRPINS	8 ⁵	(1) #3 HAIRPIN	6		

NOTES:
 1. SHEAR ANCHORAGE DESIGNS CONFORM TO ACI 318-11 AND ACI 318-14 AND ASSUME MINIMUM 2,500 PSI CONCRETE.
 2. SHEAR REINFORCEMENT IS NOT REQUIRED FOR INTERIOR FOUNDATION APPLICATIONS (PANEL INSTALLED AWAY FROM EDGE OF CONCRETE) OR BRACED WALL PANEL APPLICATIONS.
 3. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS.
 4. WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C.
 5. WHERE NOTED, MINIMUM CURB/STEMWALL WIDTH IS 6 INCHES WHEN STANDARD STRENGTH ANCHOR BOLT IS USED.
 6. USE (1) #3 TIE FOR WSW12 WHEN PANEL DESIGN SHEAR FORCE EXCEEDS TABULATED ANCHORAGE ALLOWABLE SHEAR LOAD.
 7. #4 GRADE 40 SHEAR REINFORCEMENT MAY BE SUBSTITUTED FOR WSW SHEAR ANCHORAGE SOLUTIONS.

STRONG-WALL® WSW SHEAR ANCHORAGE SCHEDULE AND DETAILS

REVISIONS	DATE	NO.
0	07/01/2016	

DATE: 07/01/2016
 NO: 0

STRONG-WALL® WSW ANCHORAGE DETAILS
 ENGINEERED DESIGNS

STRONG-WALL® WSW ANCHORAGE SCHEDULE AND DETAILS

STRONG-WALL® WSW ANCHORAGE SCHEDULE AND DETAILS

STRONG-WALL® WSW ANCHORAGE SCHEDULE AND DETAILS

STRONG-WALL® WSW ANCHORAGE SCHEDULE AND DETAILS

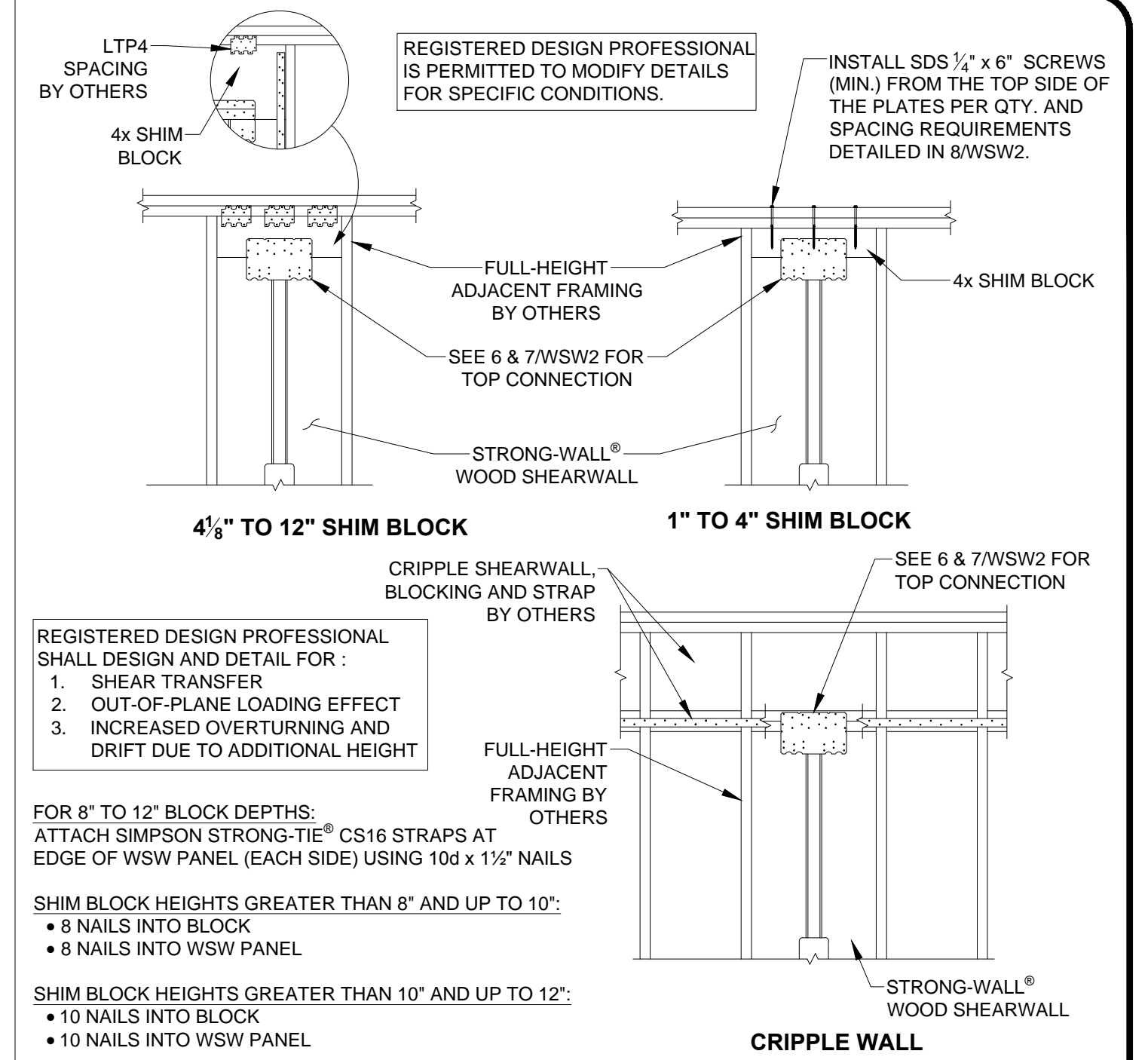
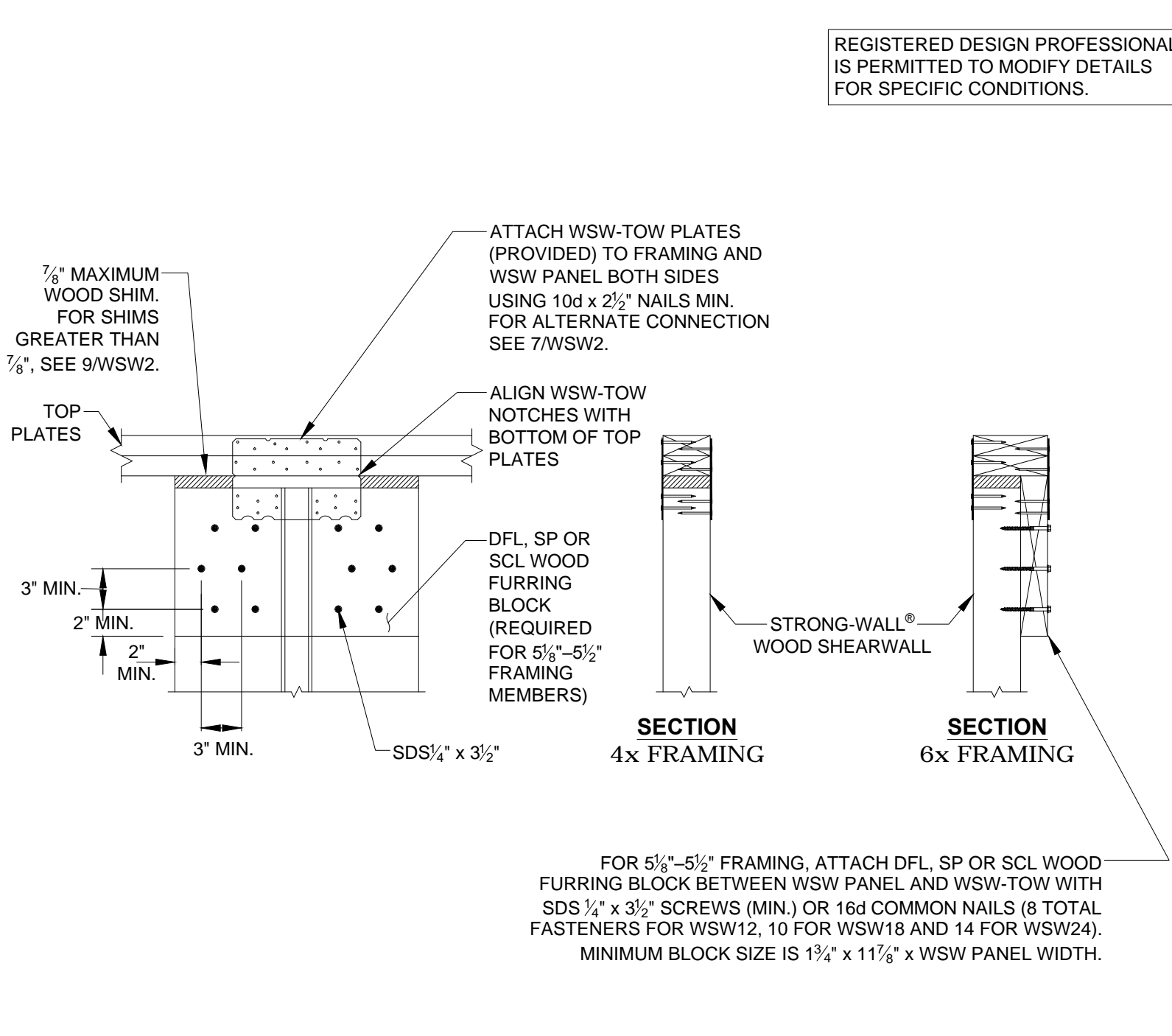
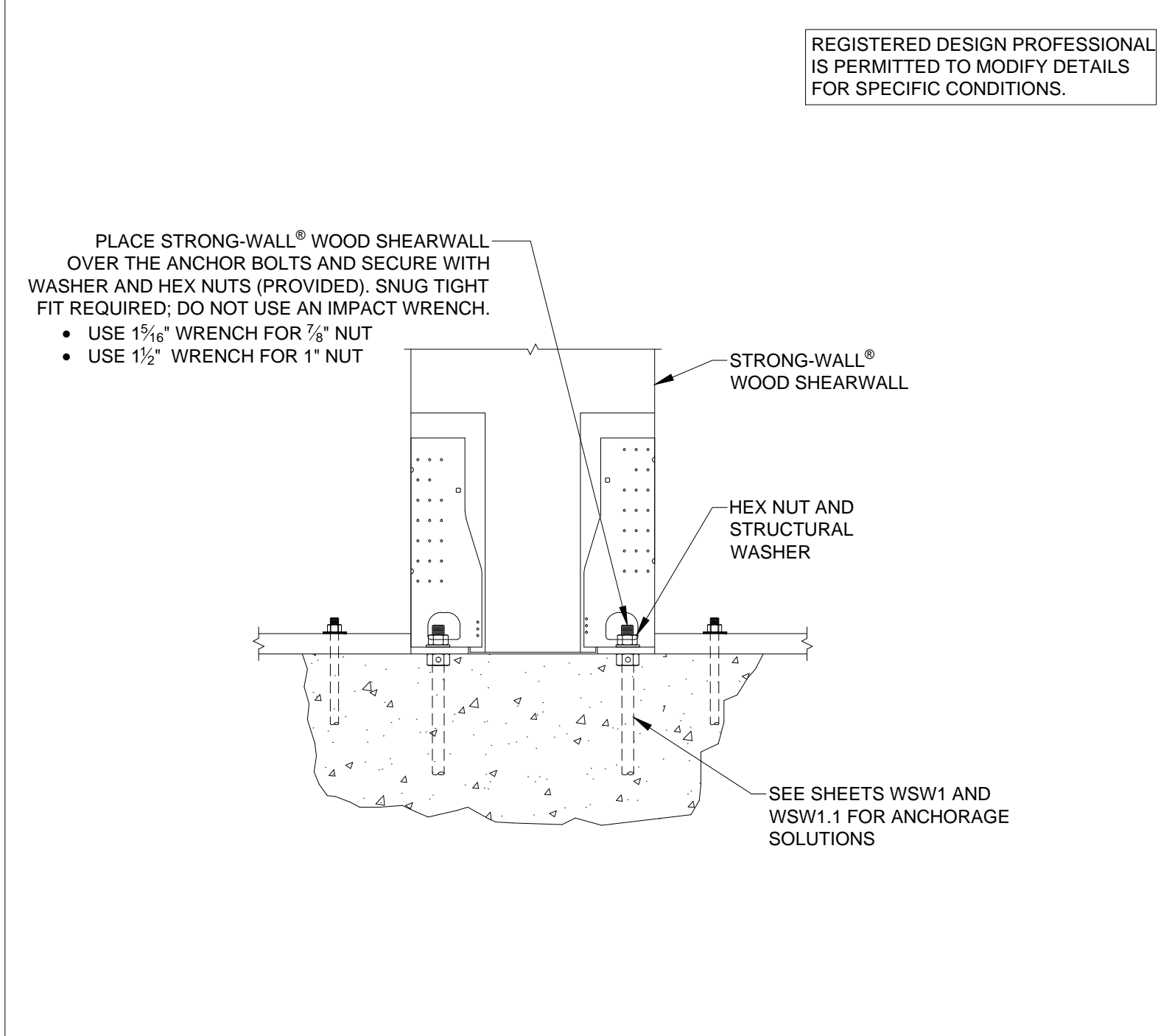
STRONG-WALL® WSW ANCHORAGE SCHEDULE AND DETAILS

STRONG-WALL® WSW ANCHORAGE SCHEDULE AND DETAILS

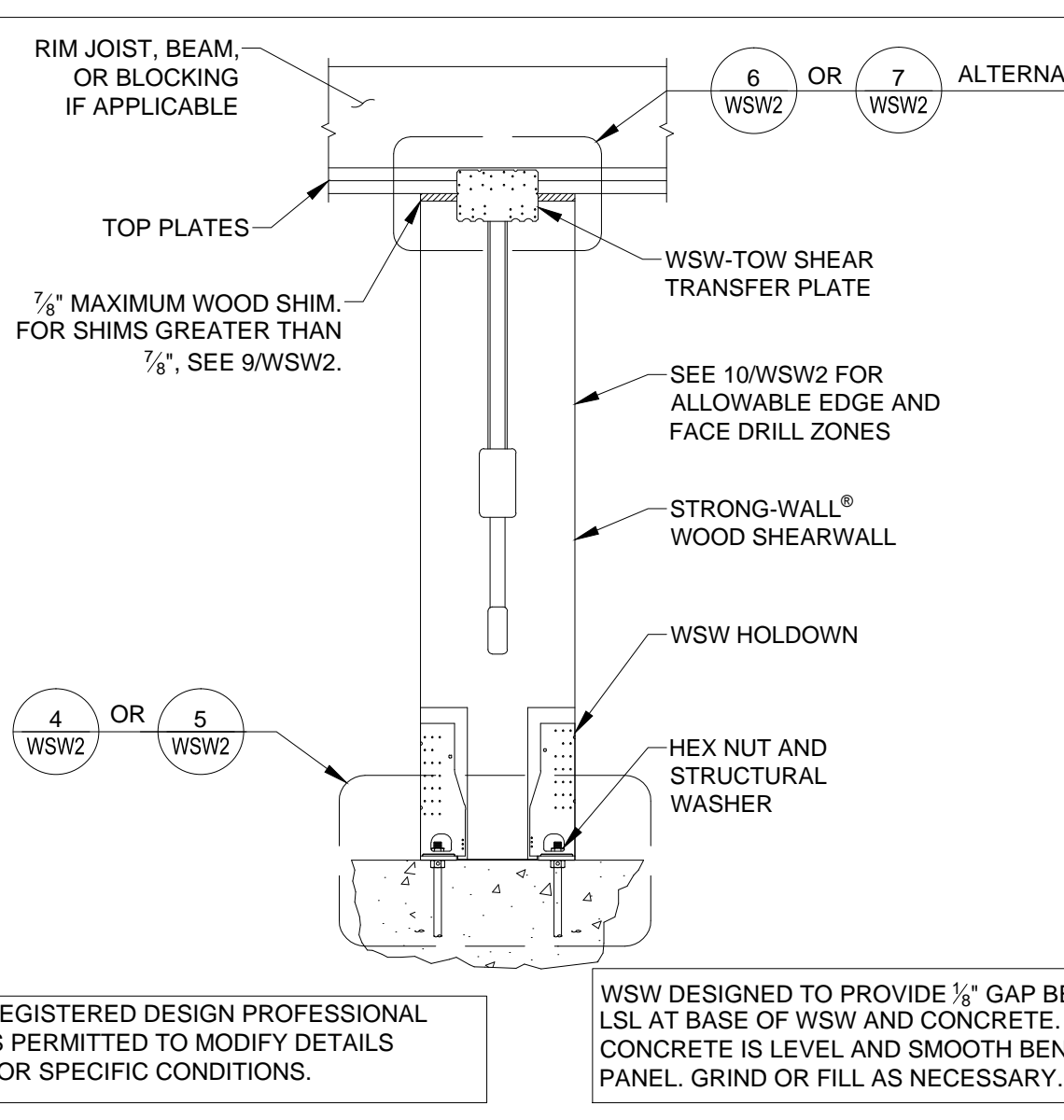
STRONG-WALL® WOOD SHEARWALL MODELS

MODEL NO.	W (in.)	H (in.)	ANCHOR BOLTS		TOTAL WALL WEIGHT (lb.)
			QUANTITY	DIA. (in.)	
WSW12x7	12	78	2	7/8	100
WSW18x7	18	78	2	7/8	145
WSW12x7.5	12	85 1/2	2	7/8	110
WSW18x7.5	18	85 1/2	2	7/8	155
WSW12x8	12	93 1/4	2	7/8	115
WSW18x8	18	93 1/4	2	7/8	165
WSW24x8	24	93 1/4	2	1	225
WSW12x9	12	105 1/4	2	7/8	130
WSW18x9	18	105 1/4	2	7/8	185
WSW24x9	24	105 1/4	2	1	245
WSW12x10	12	117 1/4	2	7/8	140
WSW18x10	18	117 1/4	2	7/8	205
WSW24x10	24	117 1/4	2	1	270
WSW12x11	12	129 1/4	2	7/8	150
WSW18x11	18	129 1/4	2	7/8	220
WSW24x11	24	129 1/4	2	1	295
WSW12x12	12	141 1/4	2	7/8	165
WSW18x12	18	141 1/4	2	7/8	240
WSW24x12	24	141 1/4	2	1	320
WSW18x13	18	153 1/4	2	7/8	255
WSW24x13	24	153 1/4	2	1	345
WSW24x14	24	168	2	1	375
WSW24x16	24	192	2	1	425
WSW18x20	18	240	2	7/8	385
WSW24x20	24	240	2	1	520

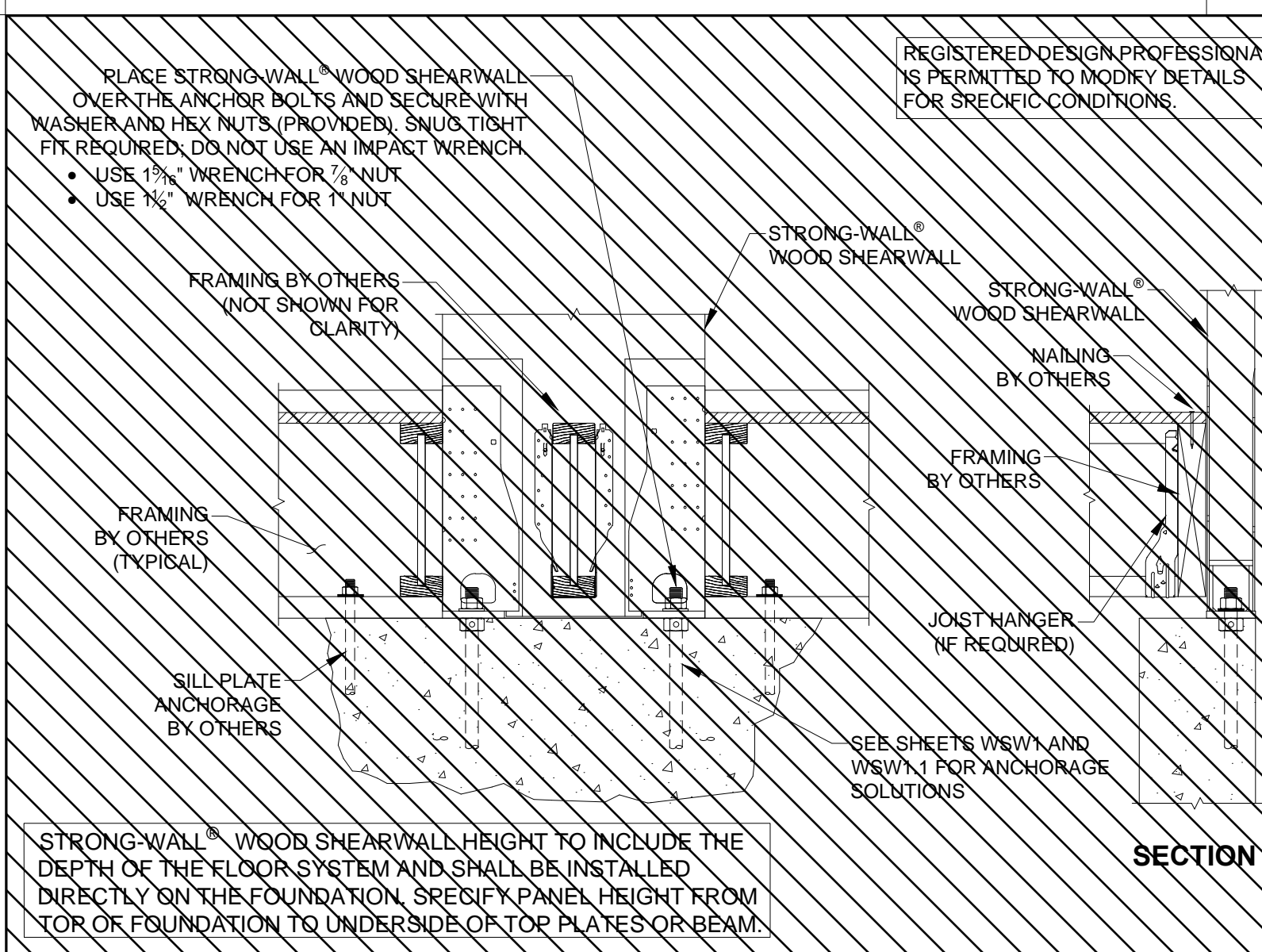
NOTES:
 1. FOR HEIGHTS NOT LISTED, ORDER THE NEXT TALLEST PANEL AND TRIM TO FIT. MINIMUM TRIMMED HEIGHT FOR ALL PANELS IS 74 1/2".
 2. ALL PANELS COME WITH TWO PRE-ATTACHED HOLD-DOWNS, TWO STANDARD HEX NUTS, TWO STRUCTURAL WASHERS, TWO WSW-TOW PLATES AND INSTALLATION INSTRUCTIONS.
 3. ALL PANELS ARE 3/2" THICK.



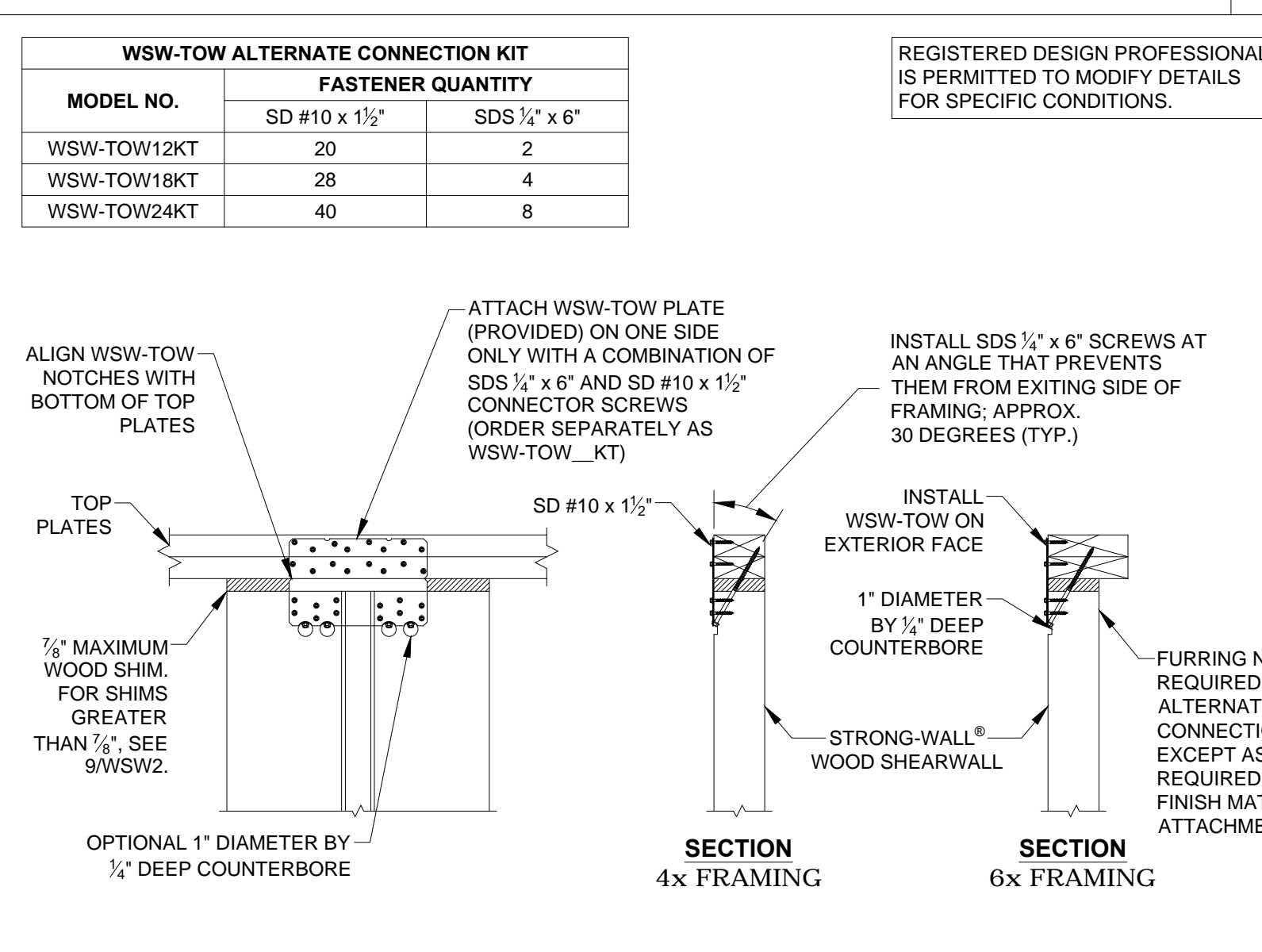
STRONG-WALL® WSW MODELS



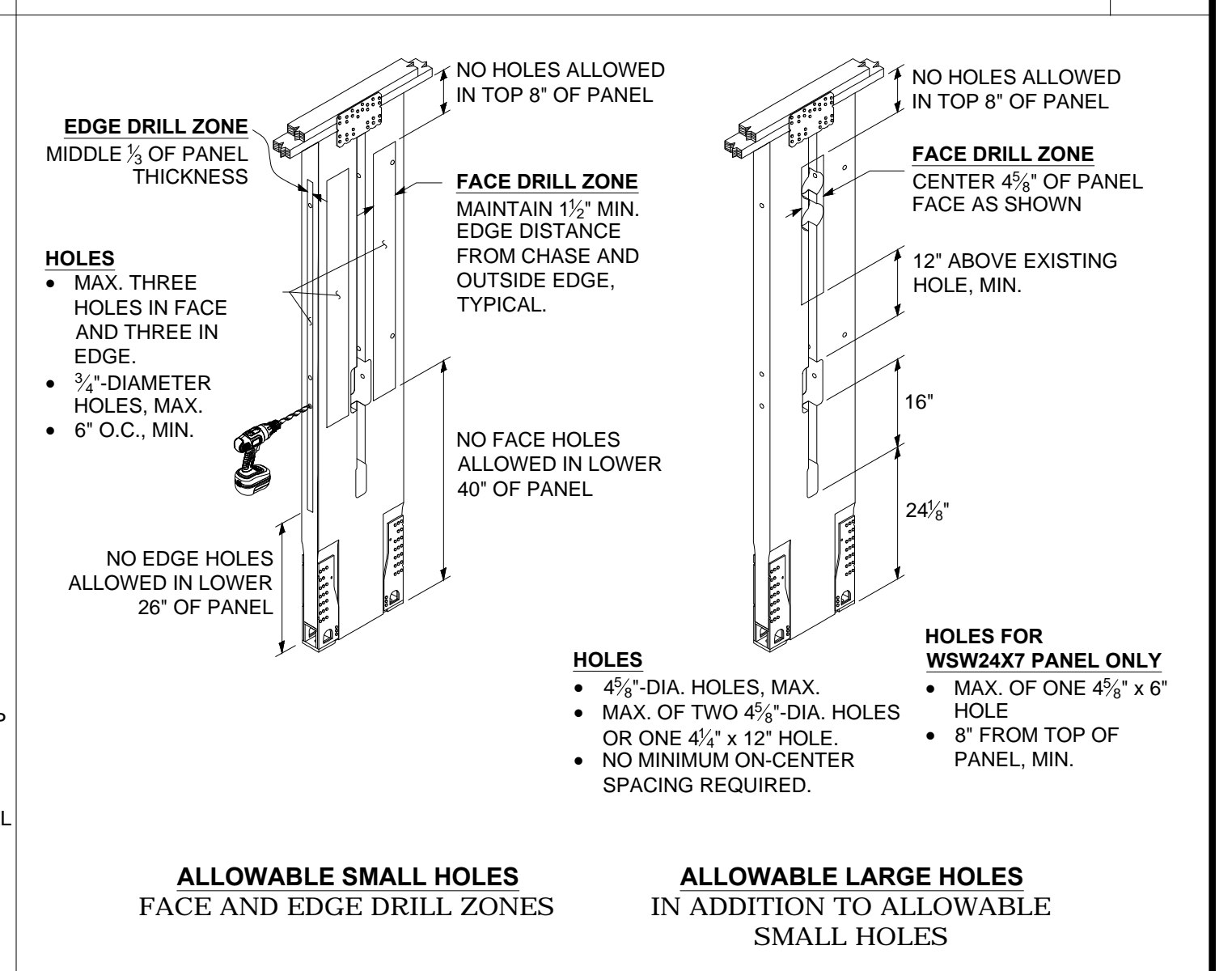
STANDARD INSTALLATION BASE CONNECTION



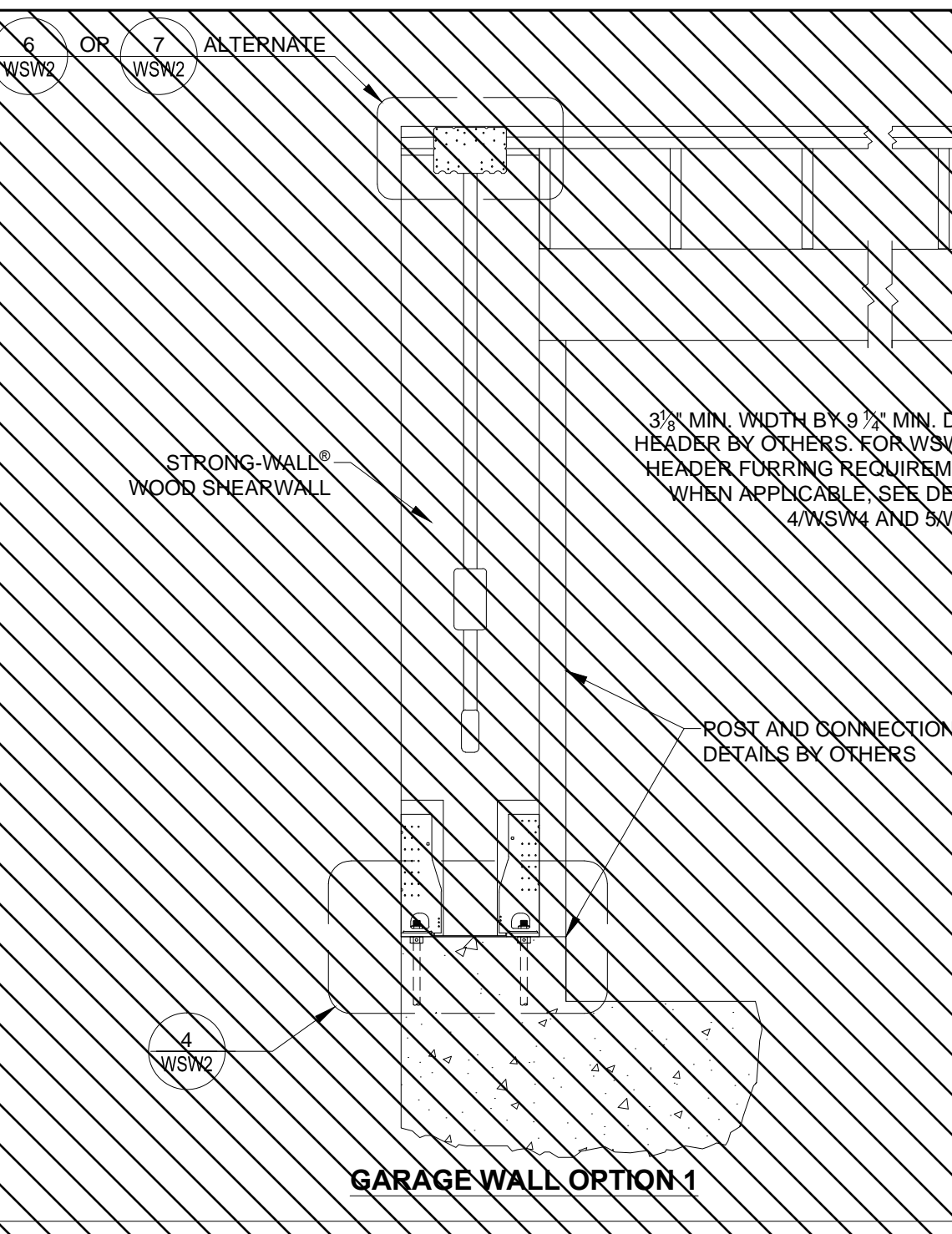
STANDARD TOP CONNECTION



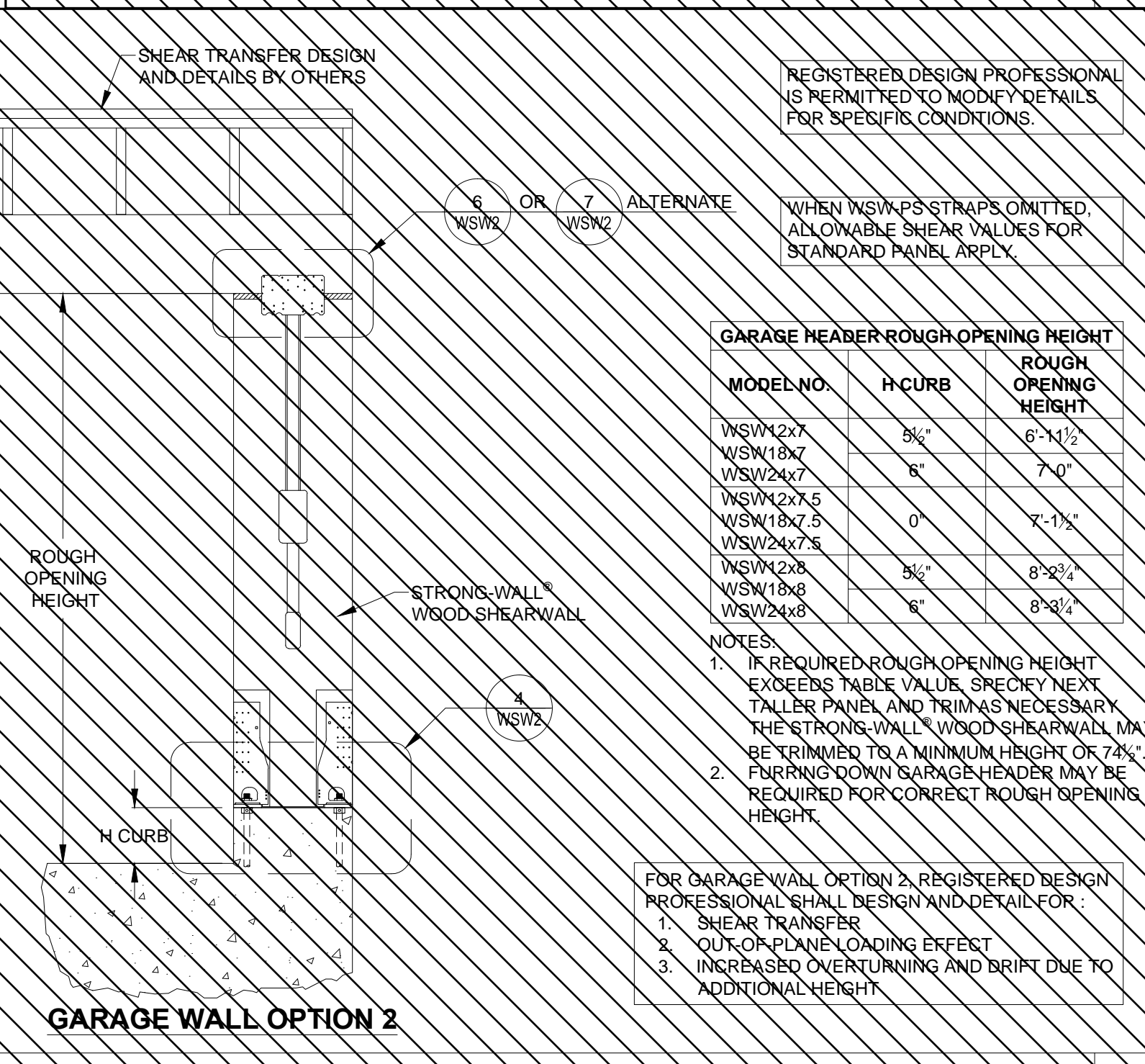
TOP OF WALL HEIGHT ADJUSTMENTS



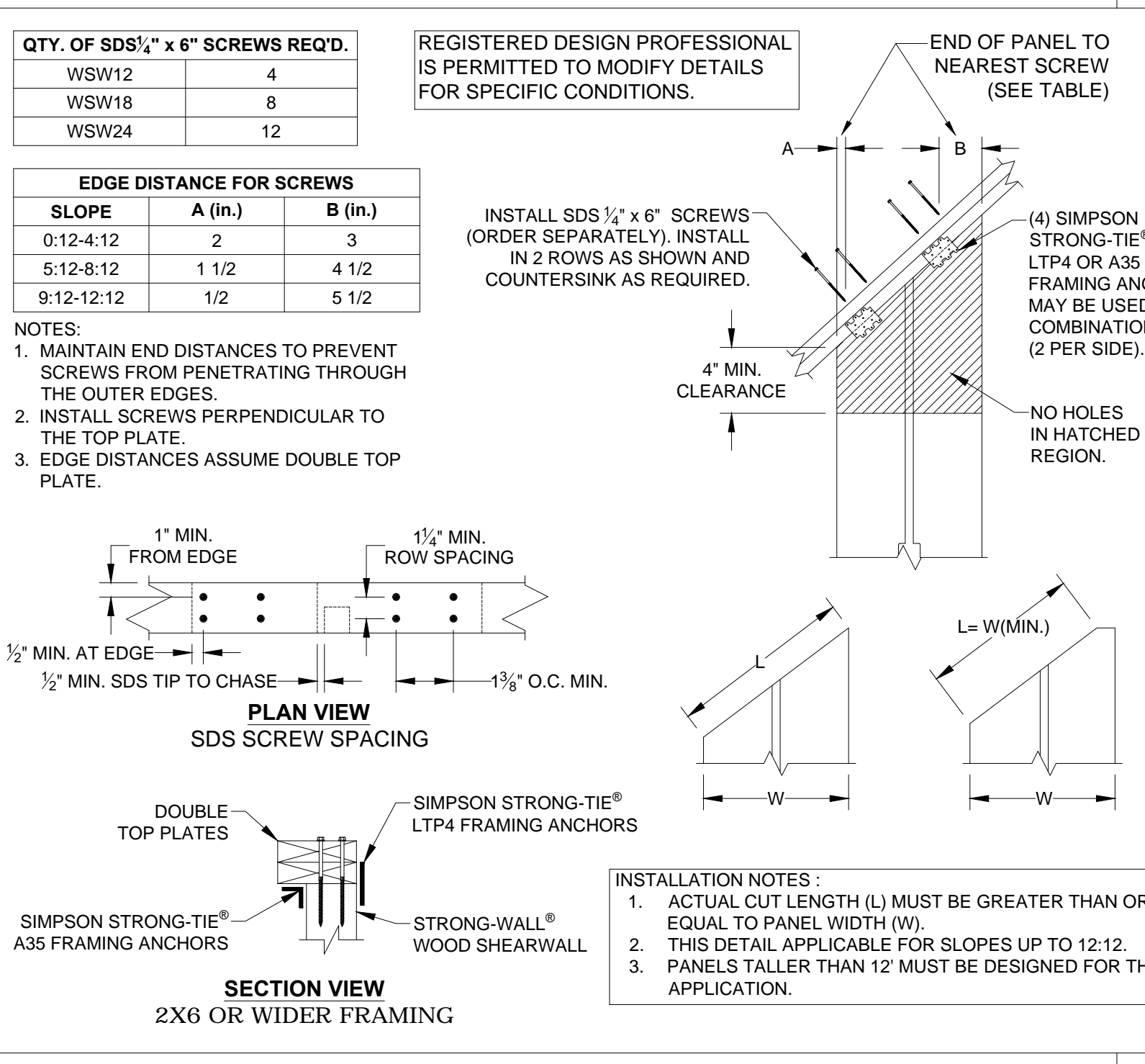
SINGLE STORY WSW ON CONCRETE



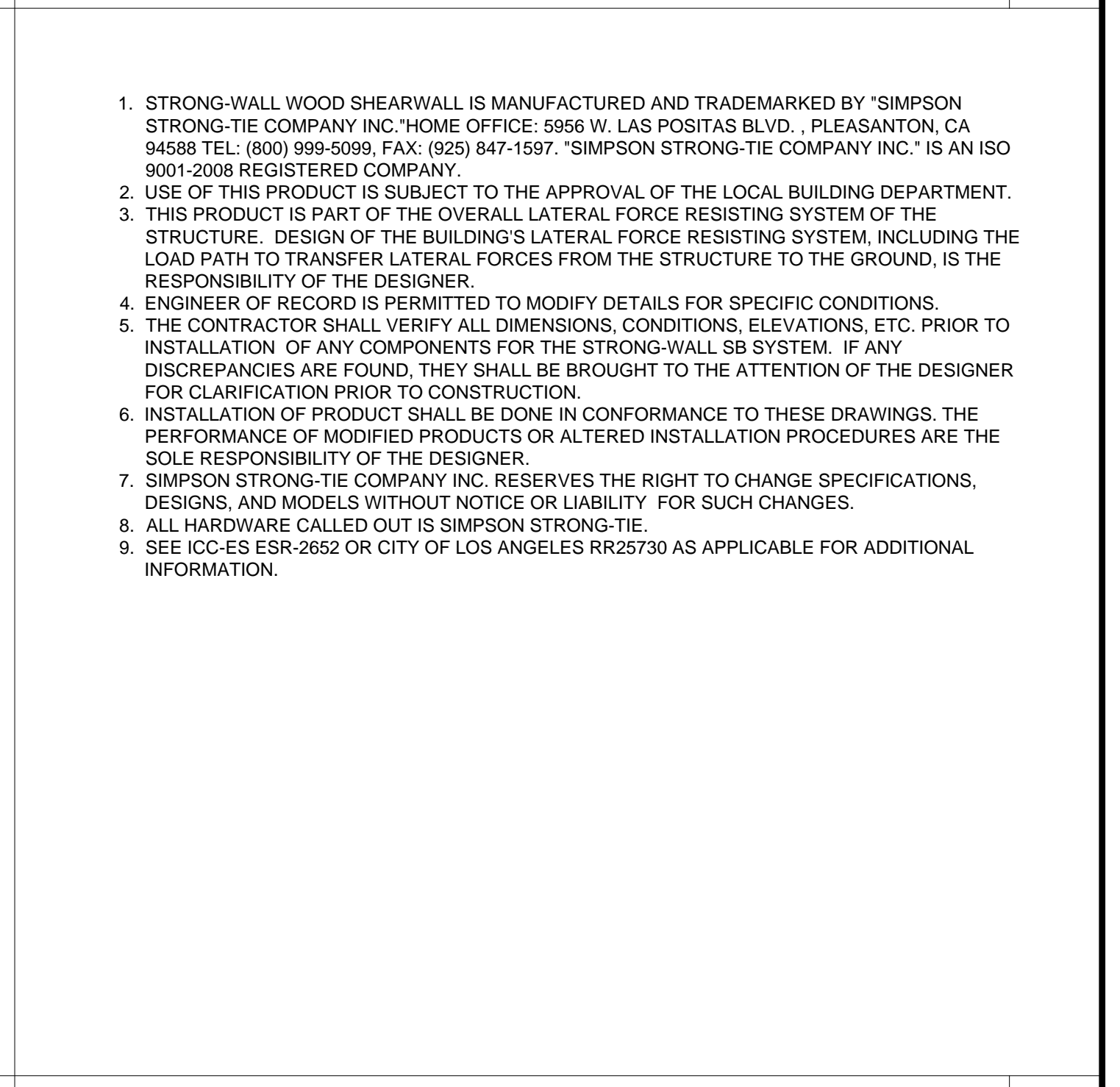
WOOD FLOOR SYSTEM BASE CONNECTION



ALTERNATE TOP CONNECTION



TRIM ZONE AND ALLOWABLE HOLES



ALTERNATE WSW GARAGE FRONT OPTIONS



RAKE WALL



NOTES

1. STRONG-WALL WOOD SHEARWALL IS MANUFACTURED AND TRADEMARKED BY SIMPSON STRONG-TIE COMPANY INC. HOME OFFICE: 5956 W. LAS POSTAS BLVD., PLEASANTON, CA 94588 TEL: (800) 999-5099, FAX: (925) 847-1597. SIMPSON STRONG-TIE COMPANY INC. IS AN ISO 9001-2008 REGISTERED COMPANY.
 2. USE OF THIS PRODUCT IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING DEPARTMENT.
 3. THIS PRODUCT IS PART OF THE OVERALL LATERAL FORCE RESISTING SYSTEM OF THE STRUCTURE. DESIGN OF THE BUILDING'S LATERAL FORCE RESISTING SYSTEM, INCLUDING THE LOAD PATH TO TRANSFER LATERAL FORCES FROM THE STRUCTURE TO THE GROUND, IS THE RESPONSIBILITY OF THE DESIGNER.
 4. ENGINEER OF RECORD IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.
 5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS, ELEVATIONS, ETC. PRIOR TO INSTALLATION OF ANY COMPONENTS FOR THE STRONG-WALL SB SYSTEM. IF ANY DISCREPANCIES ARE FOUND, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
 6. INSTALLATION OF PRODUCT SHALL BE DONE IN CONFORMANCE TO THESE DRAWINGS. THE PERFORMANCE OF MODIFIED PRODUCTS OR ALTERED INSTALLATION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE DESIGNER.
 7. SIMPSON STRONG-TIE COMPANY INC. RESERVES THE RIGHT TO CHANGE SPECIFICATIONS, DESIGNS, AND MODELS WITHOUT NOTICE OR LIABILITY FOR SUCH CHANGES.
 8. ALL HARDWARE CALLED OUT IS SIMPSON STRONG-TIE.
 9. SEE ICC-ES ESR-2652 OR CITY OF LOS ANGELES RR25730 AS APPLICABLE FOR ADDITIONAL INFORMATION.

REGISTERED DESIGN PROFESSIONAL IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

1. ACTUAL CUT LENGTH (L) MUST BE GREATER THAN OR EQUAL TO PANEL WIDTH (W).
 2. THIS DETAIL APPLICABLE FOR SLOPES UP TO 12:12.
 3. PANELS TALLER THAN 12' MUST BE DESIGNED FOR THE APPLICATION.

SIMPSON STRONG-TIE COMPANY, INC.
 HOME OFFICE: 5956 W. LAS POSTAS BLVD., PLEASANTON, CA 94588
 TEL: (800) 999-5099

STRONG-WALL® WSW
 FRAMING DETAILS
 ENGINEERED DESIGNS

REVISIONS
 NO. 0
 DATE 07/01/2016
 FIRST RELEASE 2015 BC

NAME
 DATE 07-01-2016
 SCALE N.T.S.
 CHECKED
 SHEET
WSW2
 OF SHEETS
 JOB NO.