



CITY OF MERCER ISLAND	INSPECTION REQUES	
DEVELOPMENT SERVICES GROUP	online:	Construction of the project shall be from <i>approved plans only</i> . No deviation from the approved project plans is allowed without prior approval from the city of Mercer Island. Approved plans must be kept on site and maintained in good condition.
9611 SE 36TH STREET   MERCER ISLAND, WA 98040 PHONE: 206.275.7605   www.mercergov.org	WyBuildingPermit.co	<ul> <li>Refer to "Conditions of Permit Approval" provided at permit issuance for required construction rules and regulations, including:</li> <li>Site Considerations</li> <li>ROW restrictions</li> <li>Additional Fire Code Requirements</li> <li>In advance of desired inspection. Be specific as to type of inspection.</li> <li>In advance of desired inspection. Be specific as to type of inspection.</li> </ul>
MERCEA	voicemail: (206) 275-7730	• Hours of Work • Drainage Requirements • Planning Req
Mlepian	(200) 270 7700	Acess Road Requirements     • Water Service Requirements     • Tree Requirements     • Tree Requirements     • Tree Requirements     • Tree Requirements
NOTE: ALL RECORDS AND DRAWINGS ARE SUBJECT TO	PUBLIC DISCLOSURE AS REQUIRED BY RCW 42.56	O       Refer to "Preconstruction Meeting Checklist" provided at the preconstruction meeting for development related requirements.       O       Pre-construction Meeting to Review Conditions of Permit Approval.         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure       Image: Second structure       Image: Second structure
CONTACT INFORMATION:	TODELE DISCLOSORE AS REQUIRED BY REW 42.50	Erosion control measures must be as shown on approved project drawings. All erosion control is to be in place and inspected prior to the start of any site work.
Applicant is to complete the following information.		A City of Mercer Island Business License is required for all subcontractors. Call (206) 275-7783 for more information.
Applicant Contact information <i>prior</i> to permit issuance:	Applicant Contact information <i>post</i> permit issuance:	- Separate ROW permit required
Name:	Name:	Tree protection as shown on approved drawings shall be installed at tree dripline prior to start of any site work and Temporary power Temporary power Temporary power Pilings / Shoring / Shortrete. If applicable, provide survey letter Pilings / Shoring / Shortrete. If applicable, provide survey letter Pilings / Shortrete. P
Address:	Address:	No trees shall be cut without a City of Mercer Island tree permit.
Phone:	Phone:	Replacement trees must be a minimum of six feet tall at installation. They must be planted and approved prior to final inspection.       reports of inspections (pile and shoring installation, etc.)         For this project,       trees are authorized to be removed and replaced with       trees.
		This project appears to be within a protected eagle nest area. Contact Federal Fish and Wildlife at (360) 534-9304 or visit their (building height and setbacks); Special Inspector reports of inspections
Email:	Email:	website at http://www.fws.gov/pacific/eagle  (soil bearing capacity, compaction, earthwork, pile installation, etc.)  FIRE PROTECTION REQUIREMENTS:
<b>REQUIRED SPECIAL INSPECTIONS / STRUC</b>	CTURAL OBSERVATIONS:	Separate Permits are required for ALL fire protection systems. For more information, see http://www.mercergov.org/Page.asp?NavID=2614
It is the Engineer of Record's responsibility to specify all required The owner is responsible for hiring an approved private Special I	ed Special Inspections or Structural Observation (check items below).	Fire Sprinkler       Monitored Household       * Storm drainage, including (but not limited to):
Inspectors (except Geotechnical) must be WABO certified.		NFPA 13D       Fire Alarm per NFPA 72         Plus       Monitored Sprinkler         Monitored Sprinkler       Monitored Sprinkler
	e report shall be submitted to the City Building Inspector prior to the City addition to the Special Inspection or Structural Observation indicated	NFPA 13R       • Detention systems       • Storm drain in ROW
below. Do not cover or conceal any work prior to the City inspec	· ·	NFPA 13       • Control structures / manholes         Approved Fire Code Alternatives:       • Control structures / manholes         • Catch basins including       • Pump systems
STRUCTURAL OBSERVATION BY ENGINEER OF RECORD (EOR)	R):	FCA1
<b>0</b> • • • • • • • • • • • • • • • • • • •	Phone:Phone:	FCA2       FCA4         Water Supply
General Conformance to Construction Documents	Other:	WATER SUPPLY REQUIREMENTS:
SOILS / GEOTECHNICAL: Special Inspector: Cor	ompany:Phone:Phone:	Connections to side     Back-flow valves     Back-flow valves     Sewer main     Grinder pump systems
Erosion control measures	Subsurface drainage placement	Connections to existing     Sewer manholes
<ul> <li>Shoring installation and monitoring</li> <li>Observe and monitor excavation</li> </ul>	<ul> <li>Verify fill material and compaction</li> <li>Rockery installation</li> </ul>	City Installation.
Verification of soil bearing	Pile placement (auger cast/driven pile)	Required Service Line Size:       Required Supply Line Size:       Required Meter Size:
Other:	Other:	(water main to meter) (water main to house) Underslab insulation / vapor barrier / reinforcing Underfloor framing
REINFORCED CONCRETE: Special Inspector:Cor	pmpany:Phone:	<ul> <li>Pressure reducing valve required if pressure exceeds 80 psi.</li> <li>Reduced pressure backflow assembly (RPBA) required for all lots with waterfront or non-city water supply (private wells</li> <li>Reduced pressure backflow assembly (RPBA) required for all lots with waterfront or non-city water supply (private wells</li> </ul>
Concrete strength	Retaining wall construction	or lake irrigation).
<ul> <li>Reinforcing steel and concrete placement</li> <li>Shotcrete placement</li> </ul>	Prestressed / Precast construction Other:	Additional water supply requirements: Additional water supply requirements: Inspection letter for lateral wood inspection.
Other:	Other:	Unsite detention system required.       Direct discharge into the lake.       Image: All and the lake. <td< td=""></td<>
STRUCTURAL STEEL: (AISC 360, Chapter N)		S On site infiltration system required No Storm Water permit required No Storm Water permit required And the system required installation (DWV, water)
Special Inspector: Cor Fabrication and shop welds	ompany: Phone: Moment Frame construction	O       As-built Utility drawings required.       Connection to public storm drainage conveyance system req'd.       Rough mechanical         Image: Full Size drawings required.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to public storm drainage conveyance system req'd.       Image: Connection to publi
Structural steel erection, field welds and bolting	Other:	BIDE SEWER REOLIREMENTS:
Other:	Other:	O       Image: Side sewer requires a backflow preventer when connecting to the lake line or when the elevation of the lowest plumbing fixture is       Image: Side sewer requires a backflow preventer when connecting to the lake line or when the elevation of the lowest plumbing fixture is       Image: Side sewer requires a backflow preventer when connecting to the lake line or when the elevation of the lowest plumbing fixture is       Image: Side sewer requires a backflow preventer when connecting to the lake line or when the elevation of the lowest plumbing fixture is       Image: Side sewer requires a backflow preventer when connecting to the lake line or when the elevation of the lowest plumbing fixture is       Image: Side sewer requires a backflow preventer when connecting to the lake line or when the elevation of the lowest plumbing fixture is       Image: Side sewer requires a backflow preventer when connecting to the lake line or when the elevation of the lowest plumbing fixture is       Image: Side sewer requires a backflow preventer when connecting to the lake line or when the elevation of the lowest plumbing fixture is       Image: Side sewer requires a backflow preventer when connecting to the lake line or when the elevation of the lowest plumbing fixture is
STRUCTURAL MASONRY: Special Inspector:Cor	ompany:Phone:	lower than the elevation of the upstream manhole rim or when side sewer is shared with one or more properties.
Mortar strength	Glass unit masonry installation	New connection.       Connect to existing.       Disconnect permit required.       Reconnect permit required.       Stucco (paper and lath)
<ul> <li>Masonry unit strength</li> <li>Other:</li> </ul>	<ul> <li>Wall panel and veneer installation</li> <li>Other:</li> </ul>	Other: Othe
Other:	Other:	Mercer Island Maintenance Department at (206) 275-7800.
WOOD:		APPROVED CODE ALTERNATIVES: Code alternative ca2 Impact Fees Paid (If applicable)
Special Inspector / Engineer of Record: Cor	ompany:Phone:	CA1: CA2: CA2: CA2: TT
<ul> <li>Lateral resisting system construction</li> <li>Other:</li> </ul>	<ul> <li>High strength diaphragm construction</li> <li>Other:</li> </ul>	
		Access Road     Fire Extinguishing System
	ompany:Phone:	SURVEY REQUIREMENTS (The following survey information must be submitted when checked):       • Fire Code Alternatives (see below)       • Fire Alarm System         Image: I
Epoxy grout installations	Stucco installation	Surveyor shall verify points chosen for height calculations and point verification shall be submitted at the time of City foundation Inspection. A property survey may be required to verify setbacks and in some cases buildings must be surveyed onto the lot. The City Inspection: Water supply protection, including (but not limited to) TW
<ul> <li>Expansion anchor installations</li> <li>Other post installed anchors</li> </ul>	<ul> <li>Infiltration System</li> <li>Exterior Insulation Finish System (EIFS) installation</li> </ul>	reserves the right to request an impervious area survey at any time prior to issuance of Certificate of Occupancy.
<ul> <li>Alternative construction methods:</li> <li>Alternative construction materials:</li> </ul>	Other:	Surveyor:       • Waterfront property       • Well water on property         Building height survey       • Fire / lawn sprinkler       • Boiler
DEFERRED SUBMITTALS:		Building setback survey TS
	p drawings for submittal to the City for review and approval prior to iten	
fabrication / construction.	Post tension layout	A Building Inspection prior to demolition is required for all legally nonconforming single family dwelling to ensure no more than Inspectors, Geotechnical Engineer, and exterior wall cladding inspectors (EIFS).
Metal joist / metal trusses	Exterior cladding	40 percent of the dwelling's exterior walls are structurally altered. Contact the Building Inspector at (206) 275-7730.
Premanufactured structures (stairs, etc.) Precast concrete elements	Window wall / curtain wall construction           Other:	Applicant option. Additional fees will be required and must be approved prior to occupancy. TCO requires tree plantings be completed.
Other:	Other:	
ENERGY CODE COMPLIANCE INFORMATIO	ON: ing set. Alternatively, incorporate or include the Residential Energy Code	without an approved Seasonal Development Limitation Waiver.         Approved
Prescriptive Compliance (RECPC) Form into the drawing set.	ing set. Alternatively, incorporate of include the Residential Energy Code	Geotechnical Report provided. An construction must be kept on site at all times.
Sheet:		Call the appropriate contact to arrange the inspection.
Building envelope: wsec Table 402.1.1	Air Leakage Testing. IRC Section R402.4.1.2 WA Amendments	Geotechnical Engineer       Phone       Scheduling:         SEASONAL DEVELOPMENT LIMITATION RESTRICTION:       Phone       Scheduling:
(include U-factors, insulation and moisture control)	<ul> <li>Provide air leakage test report verifying air leakage rate</li> <li>does not to exceed 5 air changes per hour.</li> </ul>	Applies (Geologic Hazard area). Grading not permitted between October 1 through April 1.
(include ventilation option and duct sizing if applicable)	Duct Leakage Testing. WSEC R403.2.2	Imitation Waiver Permit.
Energy Credit Information: wSEC Table 406.2 (include specific, written requirements)	Postconstruction Test. wsec R403.2.2.1 Rough-in Test. wsec R403.2.2.3	Permit number Approved by Date PLAN REVIEW APPROVALS:
RECPC Form Information:	_ · ·	If applicable.   Not all review disciplines may be required to review the documents.
(if incorporated within drawing set) http://www.mercergov.org/files/2012ResidentialEnergyCalcForm.pdf		□ Impact fees apply and are due <i>prior</i> to Final Inspection or on
		$\begin{array}{c} \Box \\ O \\ \hline O \\ \hline \end{array}$ , whichever occurs first. $\begin{array}{c} \Box \\ \hline \\ Building \\ \hline \\ \\ Fnaineering \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
FILE NAME: DSG CVR 2016 24x36.PDF		REVISED: December 1st, 2015

### ABBREVIATIONS:

BOV CAB

CL

CLG

FOS



### FLOOR PLAN LEGEND:

EXISTING WALL TO REMAIN NEW FULL-HEIGHT WALL

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_

\_\_\_\_\_

AREA OF DRAWING REVISION

ELEVATION MARKER

CENTERLINE

NEW FULL-HEIGHT CONCRETE

BUILDING / STRUCTURE ABOVE

BUILDING / STRUCTURE BELOW

PARTIAL-HEIGHT WALL

PROPERTY LINE



GENERAL PROJECT NOTES:

1. DO NOT SCALE DRAWINGS.

2. THIS PROJECT SHALL COMPLY WITH ALL GOVERNING REGULATIONS, ORDINANCES, BUILDING CODES, OR COVENANTS OF THE AREA IN WHICH IT IS BUILT.

3. APPROVAL BY AN INSPECTOR DOES NOT CONSTITUTE AUTHORITY TO DEVIATE FROM THE DRAWINGS OR SPECIFICATIONS. 4. THE CONTRACTOR SHALL SCHEDULE WALK-THROUGHS AT EACH OF BELOW NOTED INTERVALS:

A. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

B. PRIOR TO THE COMMENCEMENT OF ALL MECHANICAL + ELECTRICAL WORK.

5. PROVIDE ALL NECESSARY BARRICADES, WARNING SIGNS, + DEVICES TO PROTECT PUBLIC + CONSTRUCTION PERSONNEL DURING CONSTRUCTION. 6. MAINTAIN ALL REQUIRED ACCESS + EGRESS DURING CONSTRUCTION.

## DUTY OF COOPERATION:

RELEASE + ACCEPTANCE OF THESE DOCUMENTS INDICATES COOPERATION AMONG THE OWNER, THE CONTRACTOR, + RIPPLE DESIGN STUDIO. ANY ERRORS, OMISSIONS, OR DISCREPANCIES DISCOVERED BY THE USE OF THESE DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO RIPPLE DESIGN STUDIO. FAILURE TO DO SO SHALL RELIEVE RIPPLE DESIGN STUDIO FROM ANY RESPONSIBILITY OF THE CONSEQUENCES.

ANY DEVIATIONS FROM THESE DOCUMENTS WITHOUT THE CONSENT OF RIPPLE DESIGN STUDIO ARE UNAUTHORIZED. FAILURE TO OBSERVE THESE PROCEDURES SHALL RELIEVE RIPPLE DESIGN STUDIO OF RESPONSIBILITY FOR ALL CONSEQUENCES ARISING OUT OF SUCH ACTIONS.

# **E MERCER PARCEL 1** 8375 E. MERCER WAY MERCER ISLAND WA 98040



### WSEC 2015 NOTES:

1. THIS PROJECT IS ELIGIBLE AND COMPLIANT W/ WSEC 2015 PRESCRIPTIVE METHOD.

- 2. INSULATION VALUES SHALL BE AS FOLLOWS:
- A. ALL VERTICAL GLAZING SHALL BE 0.30 U-FACTOR MAX. B. ALL OVERHEAD GLAZING SHALL BE 0.50 U-FACTOR MAX.

C. ALL EXTERIOR DOORS (INCLUDING DOORS FROM CONDITIONED SPACE TO UNCONDITIONED SPACE) SHALL BE 0.20 U-FACTOR MIN. D. ALL CEILINGS OVER CONDITIONED SPACE SHALL RECEIVE R-49 BLOWN-

IN INSULATION MIN. E. ALL VAULTED CEILINGS SHALL RECEIVE R-38 BATT INSULATION MIN. F. ALL ABOVE-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT

INSULATION MIN. G. ALL BELOW-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT

INSULATION MIN @ INTERIOR FRAMED WALL. H. ALL FLOORS OVER UNCONDITIONED SPACE SHALL RECEIVE R-30 BATT INSULATION MIN.

I. ALL SLAB-ON-GRADE WITHIN CONDITIONED SPACE SHALL RECEIVE R-10 RIGID INSULATION WITHIN 24" OF SLAB PERIMETER.

J. ALL HEADERS @ EXTERIOR WALLS SHALL RECEIVE R-10 RIGID INSULATION @ INTERIOR SIDE OF WALL.

3. RE: STRUCTURAL DRAWINGS FOR ALL FRAMING COMPLIANCE REQUIREMENTS.

4. PROVIDE 100 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION @ KITCHEN.

5. PROVIDE 50 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION @ ALL BATHS + LAUNDRY.

6. NATURAL GAS, PROPANE OR OIL WATER HEATER SHALL HAVE A MINIMUM EF OF 0.91 (WSEC 406.2, CREDIT 5c). 7. AT CRAWLSPACES THE MIN NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 FT<sup>2</sup> FOR EACH 300 FT<sup>2</sup> OF UNDER-FLOOR AREA. ONE

VENTILATION OPENING SHALL BE WITHIN 3'-0" OF EACH CORNER OF THE BUILDING AT CRAWLSPACE, EXCEPT ONE SIDE OF THE BUILDING SHALL BE PERMITTED TO HAVE NO VENTILATION OPENINGS, OR CRAWLSPACE SHALL BE MECHANICALLY VENTED.

8. THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS R402.4.1 THROUGH R402.4.4. WHERE REQUIRED BY THE CODE OFFICIAL, TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY AND A WRITTEN REPORT OF THE TESTING RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE CODE OFFICIAL.

9. AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE.

## VICINITY MAP:



PROJECT ADDRESS: 8375 E. MERCER WAY MERCER ISLAND, WA 98040

SCOPE OF WORK: DEMOLITION OF EXISTING RESIDENCE AND CONSTRUCTION OF NEW SINGLE-FAMILY RESIDENCE WITH ATTACHED GARAGE.

ZONE: R-8.4

LEGAL DESCRIPTION: NELY LN THOF EXTD WLY

ACCESSOR'S PARCEL NUMBER: 032110-0145

BUILDING CODE + OCCUPANCY: 2015 IRC (ARCHITECTURAL) + 2015 IBC (STRUCTURAL) R-3 SINGLE-FAMILY RESIDENTIAL (RESIDENCE) U STORAGE (GARAGE, STORAGE)

TYPE OF CONSTRUCTION: TYPE-V-N NON-SPRINKLERED

OCCUPANT LOAD CALCULATIONS: 952 FT<sup>2</sup> PROPOSED BASEMENT GROSS FLOOR AREA: OCCUPANT LOAD FACTOR (ACCESSORY STORAGE): 1 PER 200 FT<sup>2</sup> BASEMENT OCCUPANT LOAD: 5 OCCUPANTS 1,907 FT<sup>2</sup> PROPOSED FIRST FLOOR GROSS FLOOR AREA: OCCUPANT LOAD FACTOR (ACCESSORY STORAGE): 1 PER 200 FT<sup>2</sup> FIRST FLOOR OCCUPANT LOAD: 10 OCCUPANTS PROPOSED SECOND FLOOR GROSS FLOOR AREA: 1,918 FT<sup>2</sup> 1 PER 200 FT<sup>2</sup> OCCUPANT LOAD FACTOR (RESIDENTIAL): SECOND FLOOR OCCUPANT LOAD: 10 OCCUPANTS TOTAL OCCUPANT LOAD: 25 OCCUPANTS

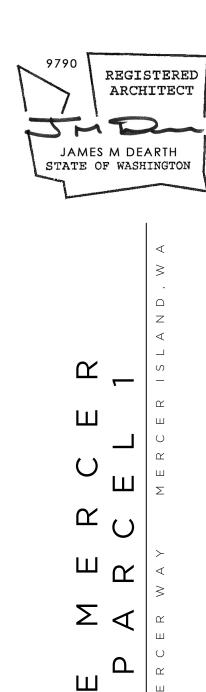
# PROJECT INFO:

AVALON PARK ADD PCL A MERCER ISLAND LLR#SUB 16-004 REC#20170131900001 SD LLR DAF-LOTS 7THRU 9 SD BLK 3 TGW SELY 40 FT OF POR OF NW 1/4 STR 31-24-5 ADJ NWLY LNS OF SD LOTS & BET SWLY &

# SHEET INDEX:

PAGE:	SHEET NAME:
A1.0	PROJECT INFORMATION
	SURVEY 1
	SURVEY 2
	SURVEY 3
	SURVEY 4
A1.1	SITE PLAN
A2.0	BASEMENT PLAN
A2.1	FIRST FLOOR PLAN
A2.2	SECOND FLOOR PLAN
A2.3	ROOF PLAN
A2.4	VENTING DETAILS
A3.1	BUILDING ELEVATIONS
A3.2	BUILDING ELEVATIONS
A3.3	BUILDING SECTIONS A-A THROUGH C-C
A4.1	DOOR + WINDOW SCHEDULES
S1.1	GENERAL STRUCTURAL NOTES
S2.0	FOUNDATION PLAN
S2.1	FIRST FLOOR FRAMING PLAN
S2.2	SECOND FLOOR FRAMING PLAN
S2.3	ROOF FRAMING PLAN
S3.1	CONCRETE DETAILS
S3.2	CONCRETE DETAILS
S3.3	CONCRETE DETAILS
S4.1	FLOOR FRAMING DETAILS
S4.2	FLOOR FRAMING DETAILS
S4.3	FLOOR FRAMING DETAILS
S5.1	ROOF FRAMING DETAILS
SSW1	STEEL STRONG WALL DETAILS
SSW2	STEEL STRONG WALL DETAILS

## RIPPLE DESIGN STUDIO 206.913.2333 4303 STONE WAY N SEATTLE, WA 98103



# PROJECT TEAM:

#### CLIENT:

NEW HORIZON REAL ESTATE DEVELOPMENT 8744 126TH AVE NE KIRKLAND, WA 206.557.0772

ARCHITECT / APPLICANT: RIPPLE DESIGN STUDIO, INC. - JIM DEARTH 4303 STONE WAY N SEATTLE, WA 98103 206.913.2333

SURVEYOR: TERRANE 10801 MAIN STREET, SUITE 102 BELLEVUE, WA 98004 425.458.4488

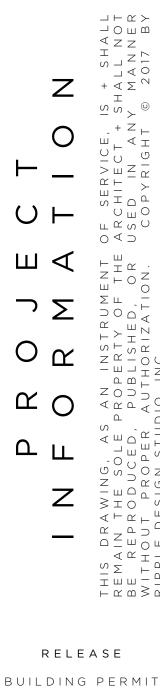
GEOTECHNICAL ENGINEER: PANGEO, INC. - MICHAEL XUE 3213 EASTLAKE AVE E SUITE B SEATTLE, WA 98102 206.262.0307

CIVIL ENGINEER: CIVIL ENGINEERING SOLUTIONS - JEFFREY ELLIS 2244 NW MARKET ST UNIT B SEATTLE, WA 98107 206.930.0342

STRUCTURAL ENGINEER: BUKER ENGINEERING - DANIEL BUKER PO BOX 28531 SEATTLE, WA 98118 206.310.3559

CONTRACTOR: TBD





BUILDING PERMIT 10 OCT 2017 CORRECTIONS 20 SEPT 2018



### **RUN YONG USA** MERCER ISLAND LOT LINE REVISION NO. SUB 16-004

#### DECLARATION

WE THE UNDERSIGNED OWNER(S) IN FEE SIMPLE [AND CONTRACT PURCHASER(S)] OF THE LAND HEREIN DESCRIBED, DO HEREBY MAKE A LOT LINE REVISION THEREOF PURSUANT TO RCW 58.17.060 AND DECLARE THIS LOT LINE REVISION TO BE THE GRAPHIC REPRESENTATION OF THE SAME, AND THAT SAID SHORT SUBDIVISION IS MADE WITH THE FREE CONSENT AND IN ACCORDANCE WITH THE DESIRE OF THE OWNER(S).

IN WITNESS WHEREOF WE HAVE SET OUR HANDS AND SEALS.

BY: \_\_\_\_

RUN YONG USA

### ACKNOWLEDGEMENTS

STATE OF WASHINGTON } COUNTY OF KING }

I CERTIFY THAT I KNOW OR HAVE SATISFACTORY EVIDENCE THAT

} SS.

\_\_\_\_\_ IS THE PERSON WHO APPEARED BEFORE ME, AND SAID PERSON ACKNOWLEDGED THAT HE/SHE SIGNED THIS INSTRUMENT, ON OATH STATED THAT HE/SHE WAS AUTHORIZED TO EXECUTE THE INSTRUMENT AND ACKNOWLEDGED IT AS THE\_\_\_\_\_

OF RUN YONG USA. TO BE THE FREE AND VOLUNTARY ACT OF SUCH PARTY FOR THE USES AND PURPOSES MENTIONED IN THE INSTRUMENT.

GIVEN UNDER MY HAND AND OFFICIAL SEAL THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2016.

NOTARY PUBLIC IN AND FOR THE STATE OF WASHINGTON

-FD REBAR W/CAP

#28101, HELD

PRINTED NAME MY COMMISSION EXPIRES \_\_\_\_

### CITY OF MERCER ISLAND APPROVALS

EXAMINED AND APPROVED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2016.

#### CODE OFFICIAL

EXAMINED AND APPROVED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2016.

CITY ENGINEER

### KING COUNTY DEPARTMENT OF ASSESSMENTS

EXAMINED AND APPROVED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2016.

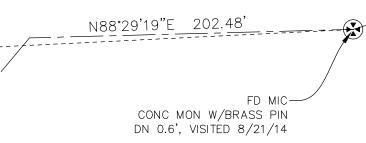
ASSESSOR

### BASIS OF BEARINGS

PER PLAT OF AVALON PARK, VOL. 49, PAGE(S) 64 & 65, RECORDS OF KING COUNTY, WASHINGTON.

#### SURVEY NOTES:

- 1. THE SURVEY SHOWN HEREON WAS PERFORMED IN AUGUST OF 2014. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST.
- 2. INSTRUMENTATION FOR THIS SURVEY WAS A LEICA TOTAL STATION UNIT. PROCEDURES USED IN THIS SURVEY WERE DIRECT AND REVERSE ANGLES, NO CORRECTION NECESSARY. MEETS WASHINGTON STATE STANDARDS SET BY WAC 332-130-090.
- 3. SEWER AND WATER UTILITIES FROM PUBLIC SERVICE.



### APPROVAL NOTE:

9

19

8

NACO (

4

MERCERWAT THIS REQUEST QUALIFIES FOR EXEMPTION UNDER RCW 58.17.040. IT DOES NOT GUARANTEE THE LOTS WILL BE SUITABLE FOR DEVELOPMENT NOW OR IN THE FUTURE. THE LEGAL TRANSFER OF THE PROPERTY MUST BE DONE BY SEPARATE INSTRUMENT UNLESS ALL LOTS HEREIN ARE UNDER THE SAME OWNERSHIP.

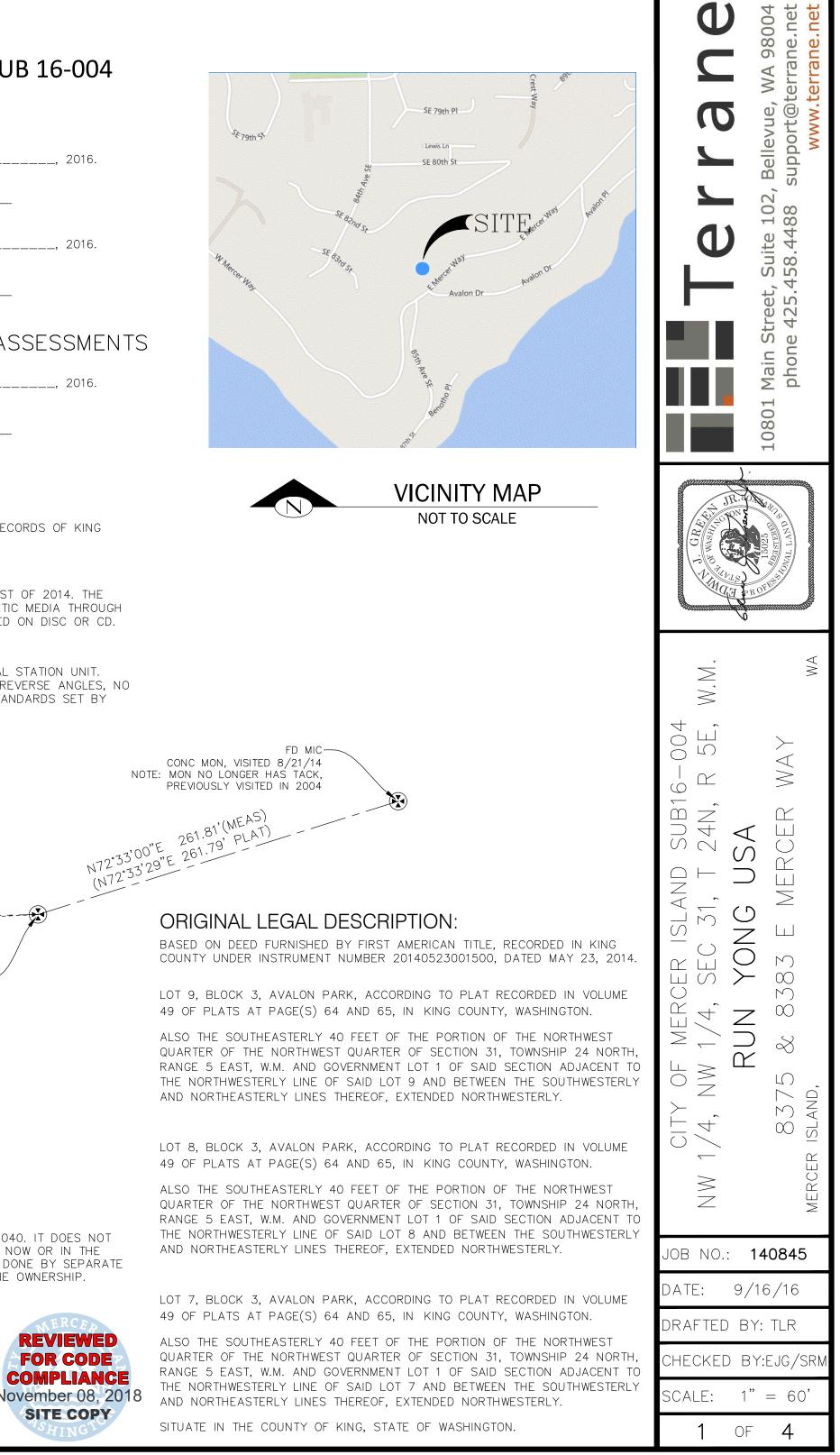


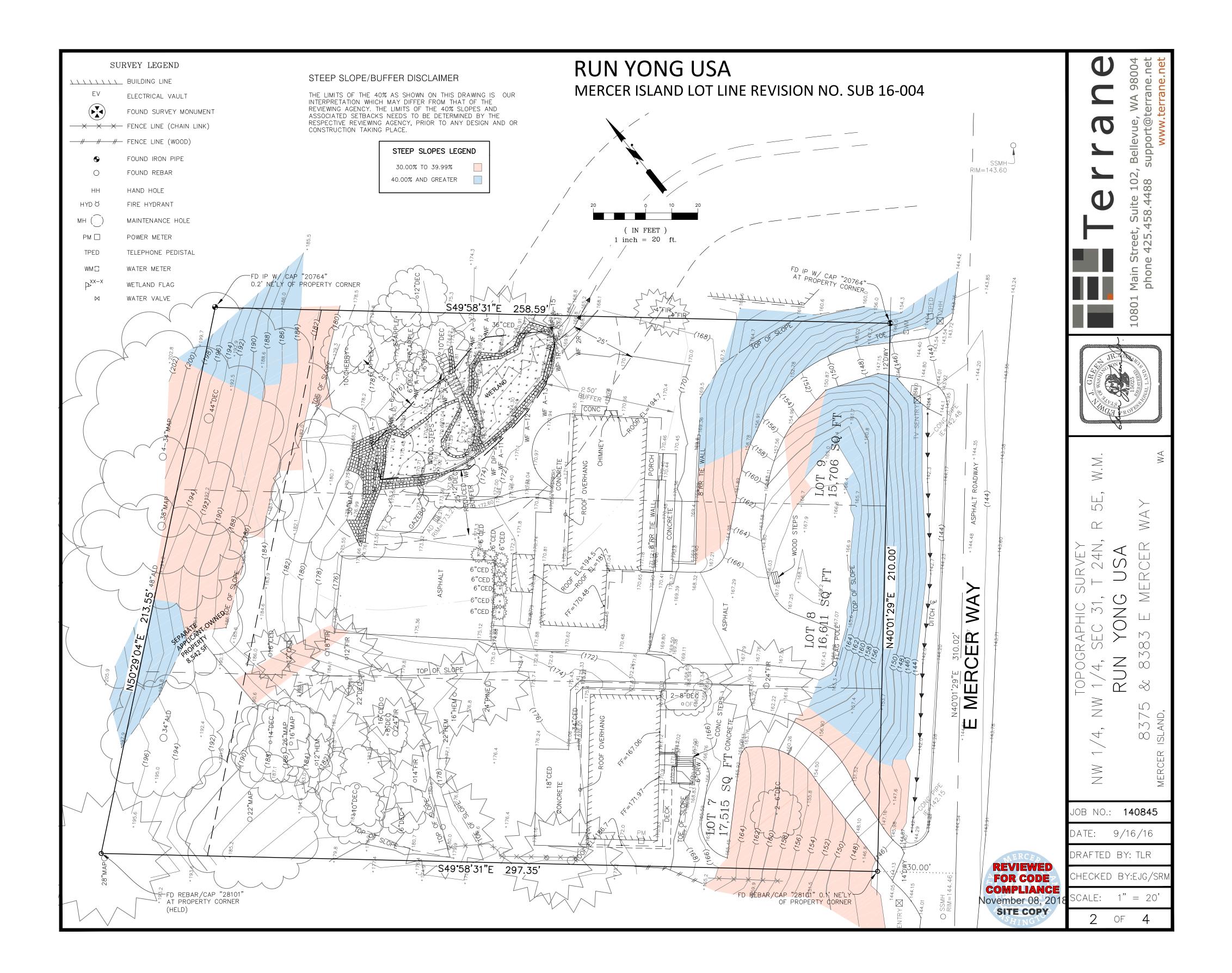
10<sup>ff</sup> CONTROL MAP

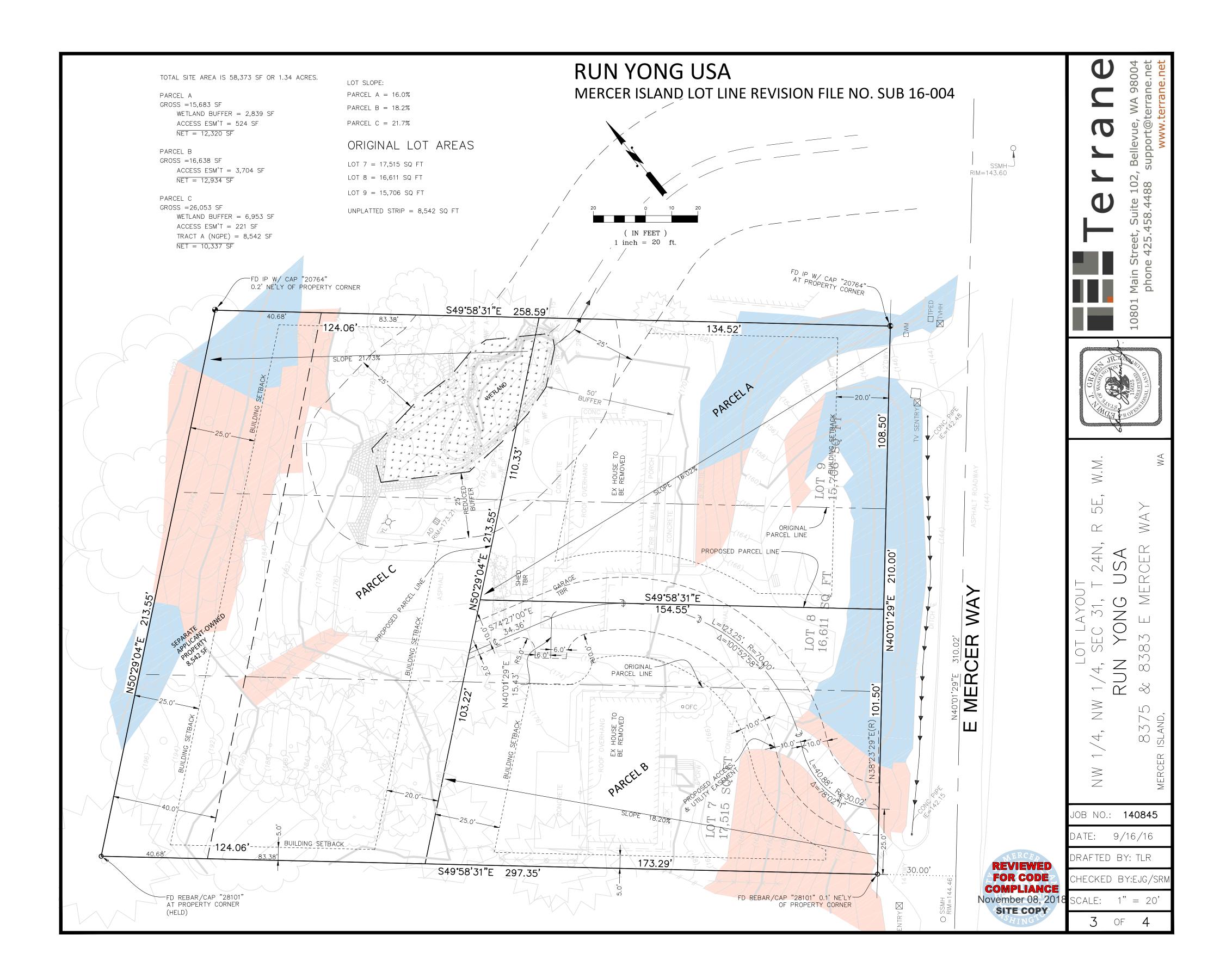
(BASIS OF BEARING)

N87º10'24"E 653.26'(MEAS)(CALC)

SCALE: 1" = 60'







## RUN YONG USA MERCER ISLAND LOT LINE REVISION FILE NO. SUB 16-004

### NEW LEGAL DESCRIPTIONS:

#### <u>parcel a</u>

LOT 9 AND THE NORTHEASTERLY 38.50 FEET OF LOT 8, BLOCK 3, AVALON PARK, ACCORDING TO THE PLAT RECORDED IN VOLUME 49 OF PLATS, AT PAGES 64 AND 65, IN KING COUNTY, WASHINGTON, EXCEPT THE NORTHWESTERLY 82.00 FEET THEREOF.

LOTS 7 AND 8, BLOCK 3, AVALON PARK, ACCORDING TO THE PLAT RECORDED IN VOLUME 49 OF PLATS, AT

#### <u>Parcel B</u>

PAGES 64 AND 65, IN KING COUNTY, WASHINGTON,

#### EXCEPT THE NORTHEASTERLY 38.50 FEET OF SAID LOT 8:

### AND EXCEPT THE NORTHWESTERLY 82.00 FEET THEREOF.

<u>Parcel c</u>

THE NORTHWESTERLY 82.00 FEET OF LOTS 7, 8 AND 9, BLOCK 3, AVALON PARK, ACCORDING TO THE PLAT RECORDED IN VOLUME 49 OF PLATS, AT PAGES 64 AND 65, IN KING COUNTY, WASHINGTON;

TOGETHER WITH THE SOUTHEASTERLY 40 FEET OF THAT PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 31, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M. AND GOVERNMENT LOT 1 OF SAID SECTION LYING BETWEEN THE SOUTHWESTERLY LINE OF LOT 7 IN BLOCK 3 OF SAID PLAT EXTENDED NORTHWESTERLY AND THE NORTHEASTERLY LINE OF LOT 9 IN BLOCK 3 OF SAID PLAT EXTENDED NORTHWESTERLY.

#### ACCESS AND UTILITY EASEMENT

THAT PORTION OF LOTS 7 AND 8, BLOCK 3, AVALON PARK, ACCORDING TO THE PLAT RECORDED IN VOLUME 49 OF PLATS, AT PAGES 64 AND 65, IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

A STRIP OF LAND, 20.00 FEET IN WIDTH, HAVING 10.00 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT THE MOST SOUTHERLY CORNER OF SAID LOT 7; THENCE NORTH 40°01'29" EAST, ALONG THE SOUTHEASTERLY LINE OF SAID LOT 7, A DISTANCE OF 25.00 FEET, TO THE BEGINNING OF A NON-TANGENT CURVE TO THE RIGHT FROM WHICH THE CENTER BEARS NORTH

38°23'29" EAST, 30.02 FEET DISTANT, AND THE POINT OF BEGINNING OF THIS CENTERLINE DESCRIPTION; THENCE NORTHWESTERLY, NORTHERLY AND NORTHEASTERLY, ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 78°02'11" AND AN ARC DISTANCE OF 40.88 FEET, TO A POINT OF REVERSE CURVATURE HAVING A RADIUS OF 70.00 FEET; THENCE NORTHEASTERLY, NORTHERLY AND NORTHWESTERLY, ALONG SAID CURVE, THROUGH A CENTRAL

ANGLE OF 100'52'58" AND AN ARC DISTANCE OF 123.25 FEET, TO A POINT HEREINAFTER REFERRED TO AS POINT "A" AND THE TERMINUS OF THIS CENTERLINE DESCRIPTION;

TOGETHER WITH A STRIP OF LAND, 12.00 FEET IN WIDTH, HAVING 6.00 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED CENTERLINE:

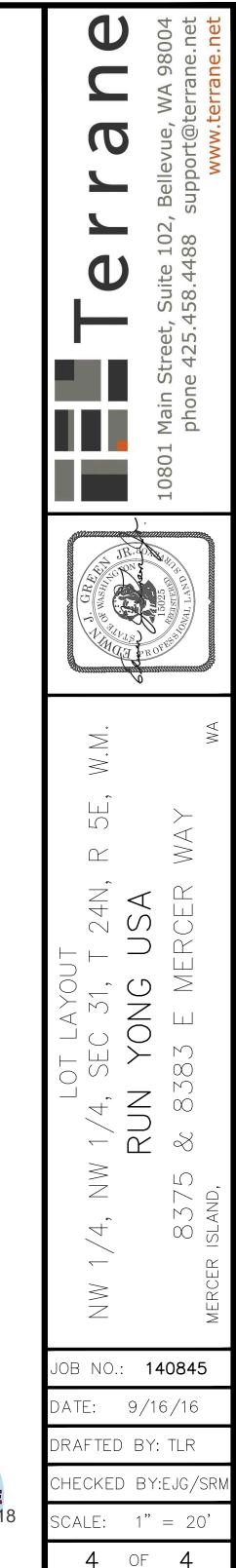
BEGINNING AT THE HEREINBEFORE REFERENCED POINT "A"; THENCE SOUTH 40°01'29" WEST 15.43 FEET, TO THE TERMINUS OF THIS CENTERLINE DESCRIPTION;

TOGETHER WITH THAT PORTION OF SAID LOT 8, LYING NORTHERLY OF A FILLETED CURVE, CONCAVE TO THE SOUTH, HAVING A RADIUS OF 10.00 FEET BETWEEN THE SOUTHEASTERLY LINE OF SAID 12.00 FOOT STRIP AND THE SOUTHERLY LINE OF SAID 20.00 FOOT STRIP;

TOGETHER WITH A STRIP OF LAND, 12.00 FEET IN WIDTH, HAVING 10.00 FEET ON THE NORTH SIDE AND 2.00 FEET ON THE SOUTH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE; BEGINNING AT THE HEREINBEFORE REFERENCED POINT "A";

THENCE NORTH 74°27'00" WEST 34.36 FEET, TO THE TERMINUS OF THIS CENTERLINE DESCRIPTION, AND A POINT ON THE SOUTHEASTERLY LINE OF THE NORTHWESTERLY 82.00 FEET OF SAID LOTS 7 AND 8;

TOGETHER WITH THAT PORTION OF SAID LOT 8, LYING NORTHERLY OF A FILLETED CURVE, CONCAVE TO THE SOUTH, HAVING A RADIUS OF 5.00 FEET BETWEEN THE SOUTHWESTERLY LINE OF SAID 12.00 FOOT STRIP AND THE NORTHWESTERLY LINE OF SAID 12.00 FOOT STRIP;





## SITE NOTES:

1. ALL IMMEDIATE AREAS AFFECTED BY NEW DEVELOPMENT SHALL BE GRADED AWAY FROM FOUNDATIONS + ADJACENT PROPERTIES @ 10% AS POSSIBLE, 2% MIN.

## IMPERVIOUS SURFACE CALCULATIONS:

ALLOWABLE IMPERVIOUS SURFACE:	5,489 FT <sup>2</sup> (35%)	
(LOT SLOPE IS BETWEEN 15% AND 30%)		
PROPOSED RESIDENCE ROOF AREA	2,602 FT <sup>2</sup>	
PROPOSED DRIVE INCLUDING SHARED EASEMENT AREA:	1,796 FT <sup>2</sup>	
WALKS + DECKS AREA:	362 FT <sup>2</sup>	
WETLAND AREA:	286 FT <sup>2</sup>	

### AVERAGE BUILDING ELEVATION CALC.S:

TOTAL IMPERVIOUS SURFACE UPON COMPLETION:

LOT AREA:

169	ELEVATION @ POINT A:
	SEGMENT LENGTH @ POINT A:
(593.25' @ ELEV x LENG	
169.	ELEVATION @ POINT B:
	SEGMENT LENGTH @ POINT B:
(5,436.80' @ ELEV x LENG	
171.	ELEVATION @ POINT C:
	SEGMENT LENGTH @ POINT C:
(5,643.00' @ ELEV x LENG	
171.	ELEVATION @ POINT D:
	SEGMENT LENGTH @ POINT D:
(5,497.60' @ ELEV x LENG	
171.	ELEVATION @ POINT E:
	SEGMENT LENGTH @ POINT E:
(2,229.50' @ ELEV x LENG	
171.	ELEVATION @ POINT F:
	SEGMENT LENGTH @ POINT F:
(2,058.00' @ ELEV x LENG	
171.	ELEVATION @ POINT G:
	SEGMENT LENGTH @ POINT G:
(1,457.75' @ ELEV x LENG	
170	ELEVATION @ POINT H:
	SEGMENT LENGTH @ POINT H:
(3,405.00' @ ELEV x LENG	

ELEVATION @ POINT I: SEGMENT LENGTH @ POINT I:

ELEVATION @ POINT J: SEGMENT LENGTH @ POINT J:

ELEVATION @ POINT K: SEGMENT LENGTH @ POINT K:

ELEVATION @ POINT L: SEGMENT LENGTH @ POINT L:

TOTAL ELEVs x SEGMENT LENGTHS: TOTAL SEGMENT LENGTHS: AVERAGE NATURAL GRADE (ANG):

15,683 FT<sup>2</sup>

5.046 FT<sup>2</sup> (32%

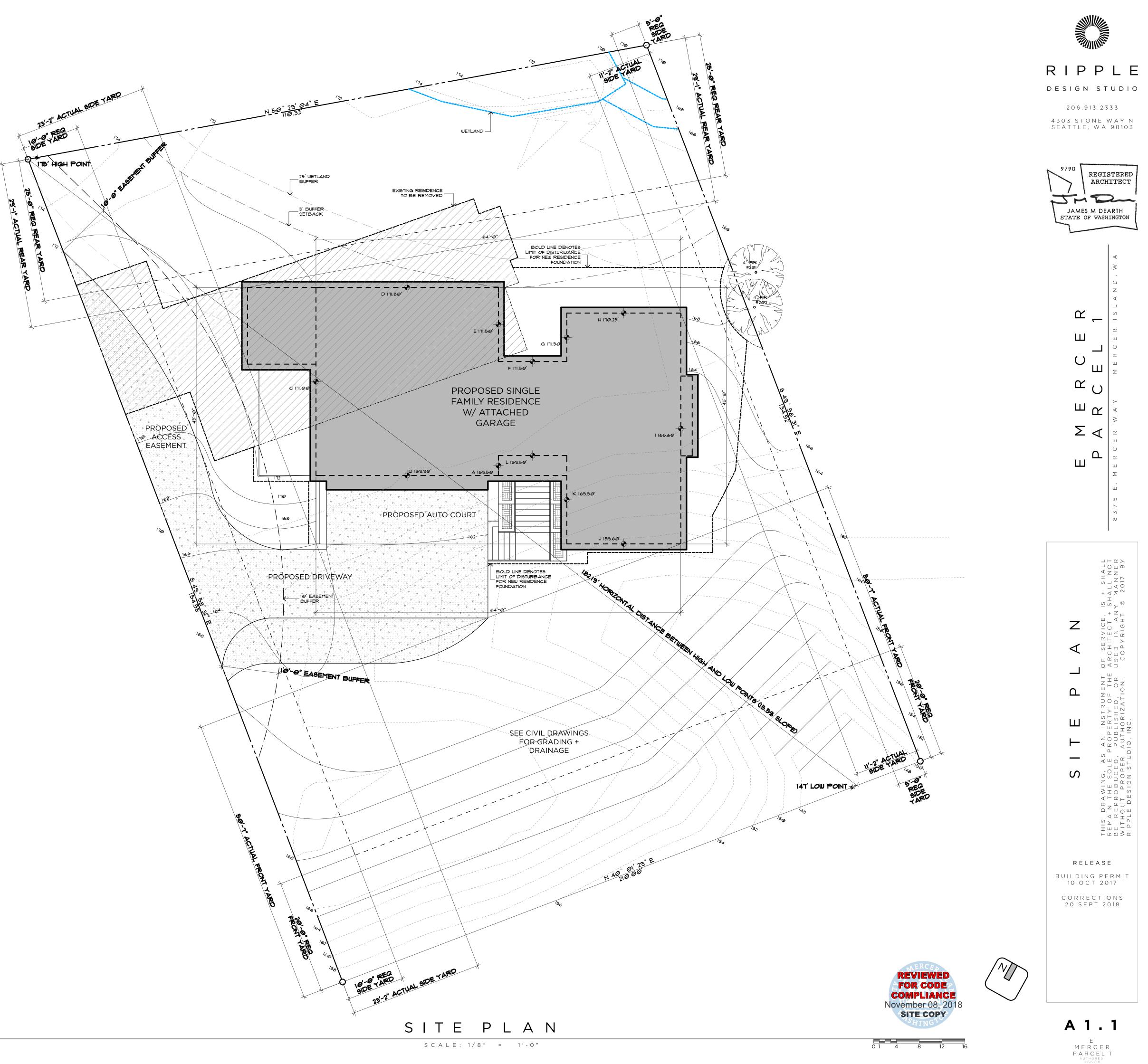
168.60

40.5′ (6,828.30 @ ELEV x LENGTH) 159.60′ 20′

(3,192.00' @ ELEV x LENGTH) 165.50′ 15.5′ (2,565.25' @ ELEV x LENGTH)

169.50′ 12′ (2,034.00' @ ELEV x LENGTH)

> 40,940.45′ 242' 169.18′



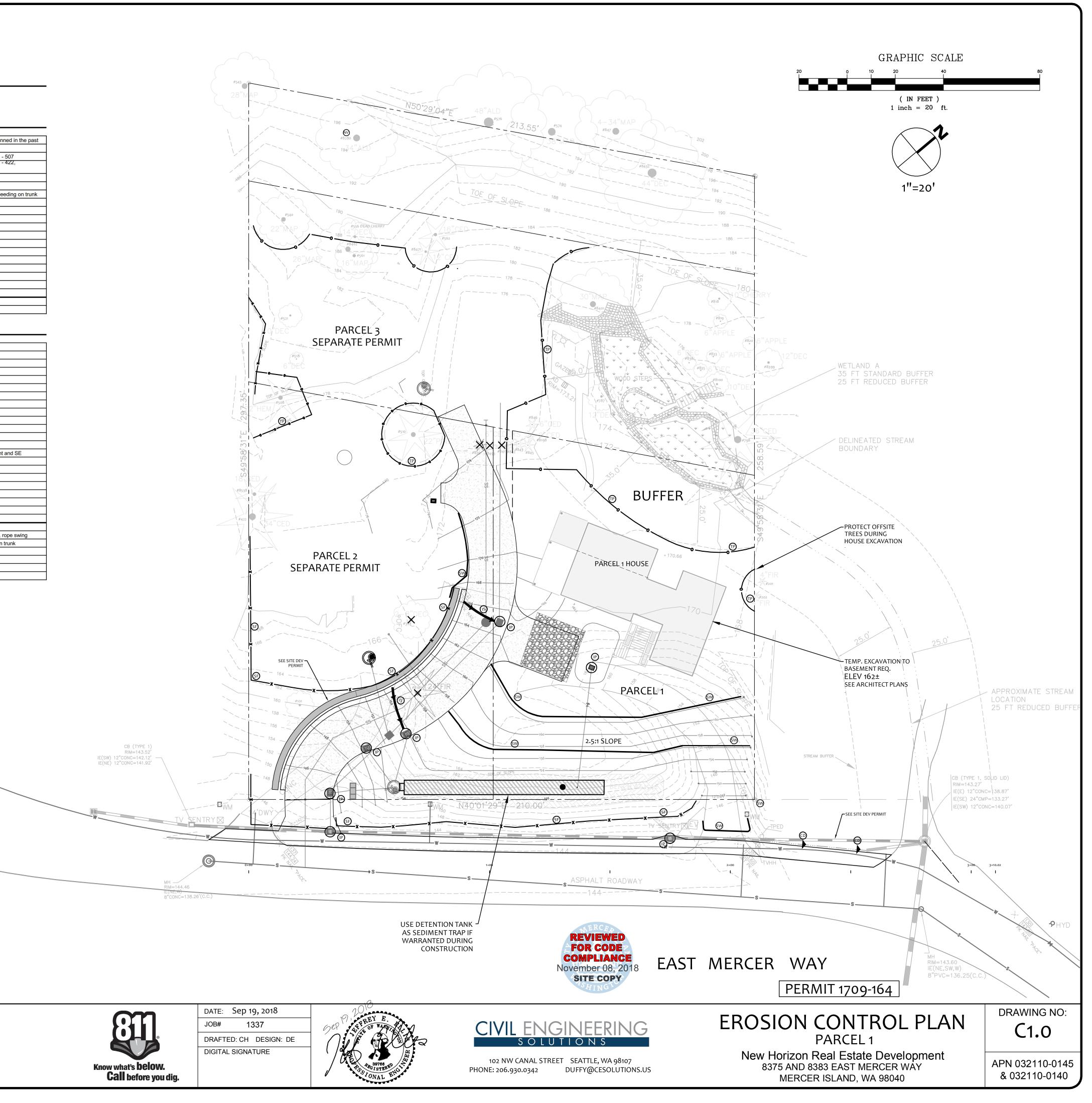
TREE TABLE

### BY AMERICAN FOREST MANAGEMENT

			Summa							agement, Inc.
		For:	8383 E	Mercer Wa	ау			Date: Inspector:	8/29/14 Wilkinson	
Tree/ Tag #	Species	DBH	Height	Drip-Li	ne/Limits of	Disturbanc	ce (feet)	Condition	Viability	Comments
	53€ ∎esson sooopessel	(inches	-	N	S	E	W			
8185	Douglas fir	26	85		17 / 12		15/12	good	viable	driveway is 12' south of tree, good taper, was crown thinned
101	deciduous ornamental	5, 7	20	15/8	10/8	10/8	12/8	good	viable	forks at 2', was topped
8538	western red cedar	19	55	13 / 12			<mark>18 / 1</mark> 2	fair-poor	borderline	was topped in the past, lots of new leaders, pink ribbon - 5
422	western red cedar	9, 22	55	14/12			16/12	fair poor	borderline	was topped in the past, lots of new leaders, pink ribbon - 4 co-dominant stem forks at 1'
422 508	western hemlock	22	75	22/15		23 / 15	13/15	fair-poor fair	viable	hemlock woolly adelgid
518	deciduous	5	15	22713		23713	13713	good	viable	
8467	sitka spruce	17	75	6/10	16 / 10	20/10	4/10	fair	viable	foliage dieback, co dominant stems fork at 40', minor bleed
521	Washington hawthorne	9	52	12/6	10710	12/6	1710	fair	viable	suppressed
519	Douglas fir	22	125		14 / 12	11/12	6/12	good	viable	no concerns
520	European mountain ash	7	25	15/6	10/6	13/6		good	viable	co-dominant forks at 10'
8509	western hemlock	20	90	15/12	12/12	14/12	8/12	fair	viable	was crown thinned, poor form, spike knot
510	western white pine	22	95	12/12	18/12	15/10	12/12	fair	viable	was pruned
8510	western red cedar	17	75	11/10	12/10	5/10	11 / 10	fair	viable	ribbon - 841, 15 deg lean NW, lean self correcting
8464	western hemlock	12	88		10/8		2/8	fair	viable	ribbon - 535, covered in ivy, crown thinned
561	big leaf maple	19	90			12/10		fair	viable	ivy covering the trunk
8462	big leaf maple	18	90	5/10			18 / 10	fair	viable	ribbon - 560, forks at 1', dead co-dominant stem
540	big leaf maple	22	90	25 / 15	25 / 15	17 / 15	10 / 15	good	viable	some past branch failure, good form
328	deciduous	6,6	12	8	10	5	5	fair	viable	
8280	red alder	25	95					poor	non-viable	ribbon - 548
							Neighboring	Trees		·
543	big leaf maple	26			20 / 15		16 / 15	good	viable	good form, full crown, no concerns
Tree/ Tag #	Species	DBH (inches	Height	Drip-L N	ine/Limits o	f Disturban E	ce (feet) W	Condition	Viability	Comments
8471	western red cedar	11	50	10/8	10 / 8	12/8	9/8	good	viable	ribbon - 542
8432	big leaf maple	38	100		38 / 20	35 / 20		fair	viable	ribbon - 837, leans SE, some dead branches
839	Pyramidalis arborvitae	5	25					fair	viable	
8497	Pyramidalis arborvitae	10	15					fair-poor	borderline	topped, co dominant stems, ribbon - 840
<mark>841</mark>	Pyramidalis arborvitae	6	28					fair	viable	
842	Pyramidalis arborvitae	6	30			inge from 2-3',		fair	viable	
843	Pyramidalis arborvitae	6	30	<u>!</u> !	miting distance	e for all sides i	s 3'	fair	viable	
8498	Pyramidalis arborvitae	7	30					fair	viable	ribbon - 844
845	Pyramidalis arborvitae	6	35					fair	viable	
846	Pyramidalis arborvitae	7	35			1.1.2.2		fair	viable	
564	Douglas-fir	13	92	20.20	7/8	10 / 8	4/8	good	viable	good taper
8470	Douglas-fir	18	95	12/8		12/8	6/8	good	viable	ribbon - 563, good taper
562	western red cedar	18	65	11/10	05 / 40	15 / 12	5/10	good	viable	
8401	big leaf maple	36	95	20 / 18	25 / 10	29 / 10	26 / 18	fair	viable	ribbon - 645, some past branch failures, pond is adjacent a
787	cherry	13	18		45.14			poor	non viable	growths
8100	deciduous	8	22	4/4	15/4	4/4		fair-poor	borderline	ribbon - 834, leans south, foliage discoloration
835	fruit	5, 2	20	5/4	4/4	8/4	414	fair	viable	
833	apple	6	18	5/4	2/4	4/4	4/4	fair	viable	
819	fruit tree	5, 3 9	15 22	4/4	10 / 4	5/4	5/4	fair	viable	
818	cherry fruit trop	5, 2		2/4	8/4	111	10/8	fair	viable	cherry gummosis, heavy pruning
820 798	fruit tree western red cedar	5, 2 26	12 70	2 / 4 10 / 12	8 / 4	4/4	18 / 12	fair fair	viable viable	pruned growing on a stump, picture
730	western red cedar	20	10	10712	137 12		88530 W 2445-40	(10.7975) (10.7975)	Viable	growing on a stamp, picture
847	big leaf maple	38, 22,	30 25	1	39 / 20	31/20	Neighboring	fair	viable	four co dominant stems, ivy covering the trunk, SE lean, ro
574	red alder	15, 32	30, 23		39720	51720		fair-poor	borderline	past stem failure, included bark, pockets of decay, ivy on tri
574 576	red alder	12, 9,	34	-				poor	non-viable	severe foliage dieback, broken top
8399	cherry	3, 11, 4					8/5	fair	viable	ribbon - 807, pruned
201	Douglas-fir	4					4/4	good	viable	
202	Douglas-fir	4		1		+	8/4	good	viable	1
	- ougido ili	1'		1	1	1		9000	Tuble	4

Drip-Line and Limits of Disturbance measurements from face of trunk Trees on neighboring properties - Drip-line and Limits of Disturbance measurements from property lines

NO. DAT	E BY	REVISIONS	
			APPLICANT New Horizon Real Estate Development 8744 126th Ave NE Kirkland, WA 98033



SED REC
1. H
2. PO CON
3. FI
4. IN
5. G
6. IN
7. C
8. G
9. C ETC
10. l ISLA
11. R MEA WIT
12. C THE APR EQU
13. 5
14. S 30 E
15. l

NO.	DATE	BY	REVISIONS	
				APPLICANT New Horizon Real Estate Development 8744 126th Ave NE Kirkland, WA 98033

### **RECOMMENDED CONSTRUCTION SEQUENCE**

A DETAILED CONSTRUCTION SEQUENCE IS NEEDED TO ENSURE THAT EROSION AND DIMENT CONTROL MEASURES ARE APPLIED AT THE APPROPRIATE TIMES. A COMMENDED CONSTRUCTION SEQUENCE IS PROVIDED BELOW:

IOLD AN ONSITE PRE-CONSTRUCTION MEETING.

POST SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR (MAY BE NSOLIDATED WITH THE REQUIRED NOTICE OF CONSTRUCTION SIGN).

LAG OR FENCE CLEARING LIMITS.

NSTALL CATCH BASIN PROTECTION, IF REQUIRED.

FRADE AND INSTALL CONSTRUCTION ENTRANCE(S).

NSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).

CONSTRUCT SEDIMENT PONDS AND TRAPS.

GRADE AND STABILIZE CONSTRUCTION ROADS.

CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, .) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.

MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF MERCER AND STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

RELOCATE SURFACE SURFACE WATER CONTROLS OR TESC MEASURES, OR INSTALL NEW ASURES SO THAT AS SITE CONDITIONS CHANGE, THE TESC IS ALWAYS IN ACCORDANCE TH CITY OF MERCER ISLAND TESC REQUIREMENTS.

COVER ALL AREAS THAT WILL BE UN-WORKED FOR MORE THAN SEVEN DAYS DURING E DRY SEASON (MAY 1 TO SEPT 30) OR TWO DAYS DURING THE WET SEASON (OCT 1 TO RIL 30) WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR UIVALENT.

STABILIZE ALL AREAS WITHIN SEVEN DAYS OF REACHING FINAL GRADE.

SEED, SOD, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN DAYS.

15. UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE **BMPS IF APPROPRIATE.** 

### DENUDED AREAS REQUIREMENTS

APRIL 1 TO SEPT 30 ALL DENUDED AREAS MUST BE STABILIZED WITHIN 7 DAYS OF CONSTRUCTION. PLEASE READ ALL CITY TESC NOTES ON SHEET C1.2.

OCT 1 TO MARCH 31

ALL DENUDED AREAS MUST BE STABILIZED WITHIN 2 DAYS OF GRADING. IF AN EROSION PROBLEM ALREADY EXISTS ON THE SITE, OTHER COVER PROTECTION AND EROSION CONTROL WILL BE REQUIRED.

### **EROSION CONTROL NOTES**

D.8.2 STANDARD ESC PLAN NOTES

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

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

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

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

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

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

6. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.) AS DIRECTED BY CITY OF MERCER ISLAND.

7. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.

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

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

10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING THE WET SEASON, OR WITHIN TWENTY FOUR (24) HOURS FOLLOWING A STORM EVENT.

11. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.

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

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

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



DATE: Sep 15, 2018 JOB# 1337

DRAFTED: CH DESIGN: DE DIGITAL SIGNATURE





102 NW CANAL STREET SEATTLE, WA 98107 PHONE: 206.930.0342

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

CITY NOTES

1. ANY CHANGES TO THE APPROVED PLANS REQUIRES CITY APPROVAL THROUGH A

#### OF WAY SHALL BE DETERMINED BY THE CITY ENGINEER PRIOR TO FINALIZE THE PROJECT.



DRAWING NO:

C1.2

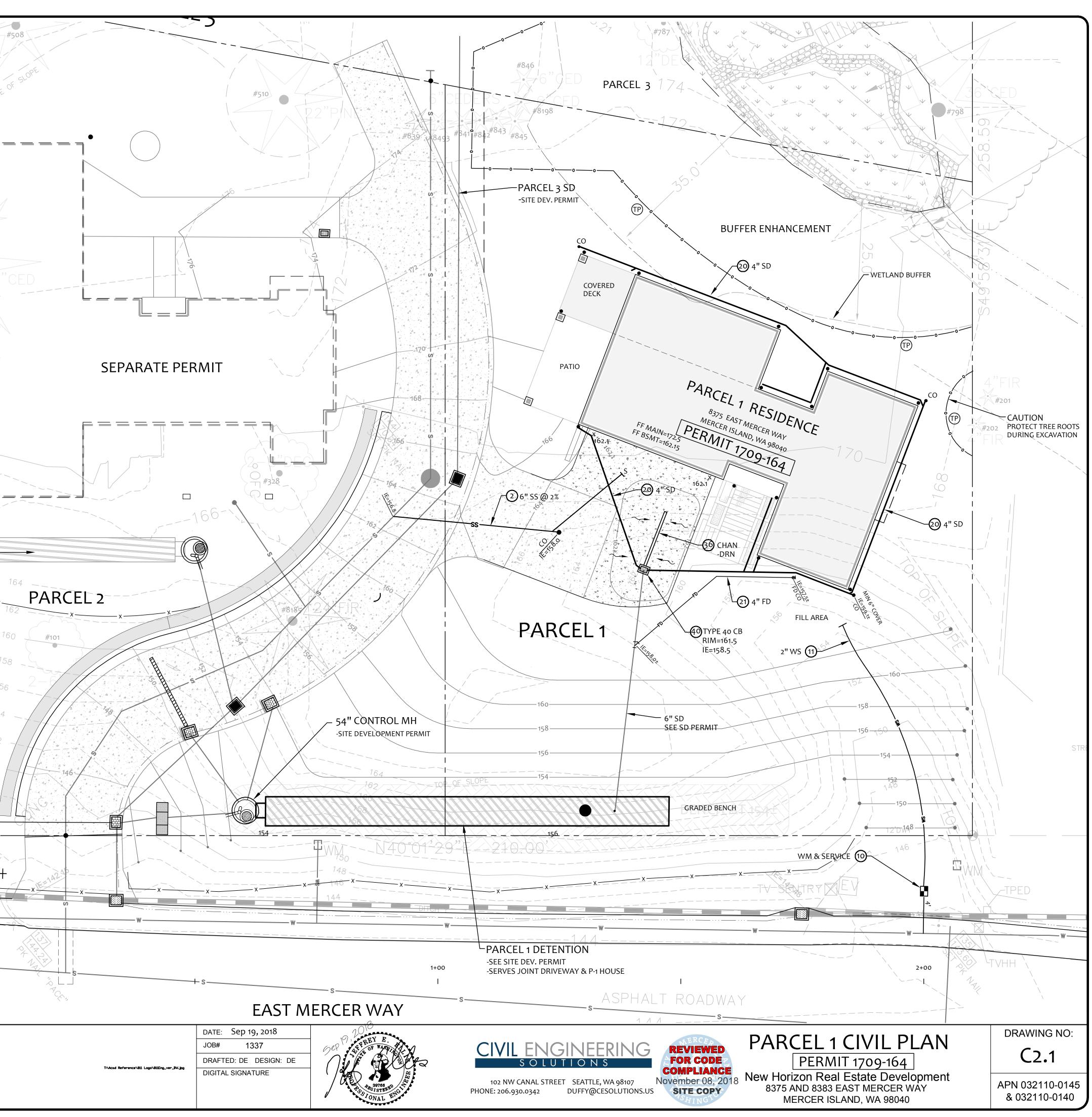
DUFFY@CESOLUTIONS.US

**TESCP NOTES** 

PARCEL 1-3 New Horizon Real Estate Development 8375 AND 8383 EAST MERCER WAY MERCER ISLAND, WA 98040

APN 032110-0145 & 032110-0140

SANITARY SEWER IMPROVEMENTS	▲	
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	122"H
<ul><li>(2) 6" SDR 35 PVC SANITARY SEWER(SS) @ MIN 1.0%.</li></ul>	$\checkmark$	
	1''=10'	
6" SEWER CLEANOUT PER MERCER ISLAND DETAIL S-19.		20
⑦ -	SCALE: 1"=10'	
8 -		
		, of the second
WATER IMPROVEMENTS		
10 -NEW SF RESIDENTIAL WATER SERVICE & METER PIT. CONFIRM REQUIRED SIZE WITH BUILDING PERMIT REVIEW. INSTALL PER MERCER ISLAND DETAIL W-13, W-14, OR W-14A DEPENDING ON SIZE		#8538
(1) MIN 1.5" 250 PSI PRIVATE HDPE WATER (ASTM D2239) FROM METER TO HOUSE. RECOMMENDED DEPTH=36". COORDINATE HOUSE ENTRY WITH BUILDER/OWNER.	I	
12 -		#422
14		$\bigvee$
STORM DRAIN		
4" STORM DRAIN (3034 PVC) @ MIN 1% GRADE.		∕<−⋕−−−
		×
<ul> <li>(21) 4" FOUNDATION DRAIN (3034 PVC) @ MIN 1% GRADE.</li> <li>(22) 6" STORM DRAIN (3034 PVC) @ MIN 1% GRADE.</li> </ul>		
•	SEPARATE PERMIT —	
23 - 22 -		
24) - 63) -		
25) - 26) -		
28 - A		/
29 -		
STORM DRAIN STRUCTURES		166
-TYPE 1 CB WITH STANDARD GRATE. MAX 5' RIM TO FL DEPTH.		
31) -TYPE 1 CB WITH VANED LID. MAX 5' RIM TO FL DEPTH.	SEPARATE PERMIT —	
2 -TYPE 1 CB WITH SOLID LID		
€ <b>3</b> -		
$\sim$		
§ -		
€ <b>5</b> -		
<ul> <li>OURASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> </ul>		
<ul> <li>35 -</li> <li>36 - OURASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>39 -</li> <li>40 -TYPE 40 CATCH BASIN. IN DRIVEWAY ADD WATER QUALITY RISER TEE</li> </ul>		
<ul> <li>OURASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>O</li> <li>- TYPE 40 CATCH BASIN. IN DRIVEWAY ADD WATER QUALITY RISER TEE FOR EXITING PIPE (OR DOWNTURNED ELBOW)</li> </ul>	1)	
<ul> <li>OURASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>O</li> <li>- TYPE 40 CATCH BASIN. IN DRIVEWAY ADD WATER QUALITY RISER TEE FOR EXITING PIPE (OR DOWNTURNED ELBOW)</li> </ul>	1) 52'	
<ul> <li>OURASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>O</li> <li>TYPE 40 CATCH BASIN. IN DRIVEWAY ADD WATER QUALITY RISER TEE FOR EXITING PIPE (OR DOWNTURNED ELBOW)</li> <li>O</li> </ul>	1) 52' 12' 92'	
<ul> <li>OURASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>O</li> <li>TYPE 40 CATCH BASIN. IN DRIVEWAY ADD WATER QUALITY RISER TEE FOR EXITING PIPE (OR DOWNTURNED ELBOW)</li> <li>O</li> </ul>	12' —	
<ul> <li>Ouraslope channel / trench drain or equal: min 6" deep channel. set level min 2" below low garage ff.</li> <li>Ouraslope channel / trench drain or equal: min 6" deep channel. set level min 2" below low garage ff.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel / trench drain or equal: min 6" deep channel / trench drain or equal: min 6" deep channel / trench drain or equal: min 6" deep channel / trench drain or equal: min 6" deep channel / trench drain or equa: min 6" deep cha</li></ul>	12' —	
<ul> <li>Ouraslope channel / trench drain or equal: min 6" deep channel. set level min 2" below low garage ff.</li> <li>Ouraslope channel / trench drain or equal: min 6" deep channel. set level min 2" below low garage ff.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel. set level min 2" below low garage ff.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel. set level min 2" below low garage ff.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel. set level min 2" below low garage ff.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel. set level min 2" below low garage ff.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel. set level min 2" below low garage ff.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel. set level min 2" below low garage ff.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel. set level min 2" below low garage ff.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel.</li> <li>Outaslope channel / trench drain or equal: min 6" deep channel / trench drain or equal: min 6" deep channel / trench drain or equal: min 6" deep channel / trench drain or equal: min 6" deep channel / trench drain or equal: min 6" deep channel / trench drain or equal: min 6" deep channel / trench drain or eq</li></ul>	12' —	
<ul> <li>OURASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>O</li> <li>TYPE 40 CATCH BASIN. IN DRIVEWAY ADD WATER QUALITY RISER TEE FOR EXITING PIPE (OR DOWNTURNED ELBOW)</li> <li>O</li> <li>O&lt;</li></ul>	12' —	
<ul> <li>Ouraslope channel / Trench drain or equal: Min 6" deep channel. set level Min 2" below low garage FF.</li> <li>Ouraslope channel / Trench drain or equal: Min 6" deep channel. set level Min 2" below low garage FF.</li> <li>Ouraslope channel (or downturned elbow)</li> <li>Ou</li></ul>	12' —	
<ul> <li>OURASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>O</li> <li>TYPE 40 CATCH BASIN. IN DRIVEWAY ADD WATER QUALITY RISER TEE FOR EXITING PIPE (OR DOWNTURNED ELBOW)</li> <li>O</li> <li>O&lt;</li></ul>	12' —	
<ul> <li>Solution</li> <li>Sol</li></ul>	12' —	
<ul> <li>OURASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>O - CHANNEL OCTOB DASIN. IN DRIVEWAY ADD WATER QUALITY RISER TEE FOR EXITING PIPE (OR DOWNTURNED ELBOW)</li> <li>O - CHEARING LIMIT NOTE</li> </ul>	12' —	
<ul> <li>OURASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>O</li> <li>O</li></ul>	12' —	
<ul> <li>OURASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>O</li> <li>O</li> <li>OTYPE 40 CATCH BASIN. IN DRIVEWAY ADD WATER QUALITY RISER TEE FOR EXITING PIPE (OR DOWNTURNED ELBOW)</li> <li>O</li> <li>O</li></ul>	12' —	
<ul> <li>OURASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>TYPE 40 CATCH BASIN. IN DRIVEWAY ADD WATER QUALITY RISER TEE FOR EXITING PIPE (OR DOWNTURNED ELBOW)</li> <li>OR CELEARING PIPE (OR DOWNTURNED ELBOW)</li> <li>OR CLEARING LIMIT NOTE</li> </ul> ALL SELECTIVE CLEARING, TRENCHING AND OTHER WORK WITHIN THE DRIPLINES OF SIGNIFICANT TREES SHALL BE BY LOW IMPACT/HAND METHODS ONLY AND WORK SHALL BE ADJUSTED AS POSSIBLE TO MINIMIZE ANY DISTURBANCE TO THE SIGNIFICANT AND RETAINED	12' —	
<ul> <li>OURASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>TYPE 40 CATCH BASIN. IN DRIVEWAY ADD WATER QUALITY RISER TEE FOR EXITING PIPE (OR DOWNTURNED ELBOW)</li> <li>OR EXITING PIPE (OR DOWNTURNED ELBOW)</li> <li>O</li> <li>O</li> <li>O</li> <li>O</li> <li>O</li> <li>A</li> <li>O</li> <li>A</li> <l< td=""><td>12' —</td><td></td></l<></ul>	12' —	
<ul> <li>OURASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OTYPE 40 CATCH BASIN. IN DRIVEWAY ADD WATER QUALITY RISER TEE FOR EXITING PIPE (OR DOWNTURNED ELBOW)</li> <li>O .</li> &lt;</ul>	12' —	
<ul> <li>OURASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>O - TYPE 40 CATCH BASIN. IN DRIVEWAY ADD WATER QUALITY RISER TEE FOR EXITING PIPE (OR DOWNTURNED ELBOW)</li> <li>O - COMPARING PIPE (OR DOWNTURNED ENDINE PIPE (OR DOWNTURNED ENDINE PIPE)</li> <li>O - COMPARING PIPE (OR DOWNTURNED PIPE)</li> <li>O - COMPARING PIP</li></ul>	12' 92' TV SENTRY	
<ul> <li>TYPE 40 CATCH BASIN. IN DRIVEWAY ADD WATER QUALITY RISER TEE FOR EXITING PIPE (OR DOWNTURNED ELBOW)</li> <li>T</li> <li></li></ul>	12' 92' TV SENTRY MH MH RIM=144.46	
<ul> <li>OURASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OTYPE 40 CATCH BASIN. IN DRIVEWAY ADD WATER QUALITY RISER TEE FOR EXITING PIPE (OR DOWNTURNED ELBOW)</li> <li>O</li> <l< td=""><td>12' 92' TV SENTRY W MH RIM=144.46 IF (NF W)</td><td> </td></l<></ul>	12' 92' TV SENTRY W MH RIM=144.46 IF (NF W)	
<ul> <li>OUTASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>OHANNEL. SET LEVEL MIN 2" BELOW LOW WATER QUALITY RISER TEE FOR EXITING PIPE (OR DOWNTURNED ELBOW)</li> <li>OHANNEL. SET LEVEL ON DOWNTURNED ELBOW)</li> <li>OHANNEL. SET LEVEL AND AND THE VORK WITHIN THE DRIPLINES OF SIGNIFICANT TREES SHALL BE BY LOW IMPACT/HAND METHODS ONLY AND WORK SHALL BE ADJUSTED AS POSSIBLE TO MINIMIZE ANY DISTUBBANCE TO THE SIGNIFICANT AND RETAINED TREES AND PROTECTED UNDERSTORY. CONSTRUCTION MATERIALS AND VEHICLES SHALL NOT BE STORED OUTSIDE THE CLEARING LIMITS.</li> <li><b>TREE DRIPLINE NOTE</b></li> <li>WORK WITHIN THE DRIPLINE OF TREES TO BE SAVED MUST BE UNDER THE DIRECTION OF A CERTIFIED ARBORIST (TYP.) SEE ALSO CLEARING LIMIT NOTE ON THIS SHEET.</li> </ul>	12' 92' VENTRY VENTRY MH MH RIM=144.46 IE (NIF W) APPLICAN New Hori	l IT zon Real Estate
<ul> <li>OUTASLOPE CHANNEL / TRENCH DRAIN OR EQUAL: MIN 6" DEEP CHANNEL. SET LEVEL MIN 2" BELOW LOW GARAGE FF.</li> <li>O</li> <li>TYPE 40 CATCH BASIN. IN DRIVEWAY ADD WATER QUALITY RISER TEE FOR EXITING PIPE (OR DOWNTURNED ELBOW)</li> <li>O</li> <li>O</li> <li>O</li> <li>O</li> <li>O</li> <li>O</li> <li>O</li> <li>O</li> <li>O</li> <li>A</li> <li>CELEARING LIMIT NOTE</li> <li>ALL SELECTIVE CLEARING, TRENCHING AND OTHER WORK WITHIN THE DRIPLINES OF SIGNIFICANT TREES SHALL BE BY LOW IMPACT/HAND METHODS ONLY AND WORK SHALL BE ADJUSTED AS POSSIBLE TO MINIMIZE ANY DISTUBBANCE TO THE SIGNIFICANT AND RETAINED TREES AND PROTECTED UNDERSTORY. CONSTRUCTION MATERIALS AND VEHICLES SHALL NOT BE STORED OUTSIDE THE CLEARING LIMITS.</li> <li>TREE DRIPLINE OF TREES TO BE SAVED MUST BE UNDER THE DIRECTION OF A CERTIFIED ARBORIST (TYP.) SEE ALSO CLEARING LIMITS INTO THE DRIPLINE ON THIS SHEET.</li> </ul>	12' 92' TV SENTRY MH MH RIM=144.46 F/NFW) APPLICAN New Hori Developm 8744 126t	I NT zon Real Estate nent



## FLOOR PLAN NOTES:

1. THIS PROJECT SHALL BE DESIGNED, ENGINEERED, + CONSTRUCTED IN FULL

- COMPLIANCE W/ ALL CODES + REGULATIONS.
- 2. ALL EXTERIOR WALLS SHALL BE 2x6 UNO.
- 3. ALL INTERIOR WALLS SHALL BE 2x6 UNO.
- 4. ALL HANDRAILS SHALL BE LOCATED @ 36" ABOVE STAIR NOSING WITH A
- GRASP DIMENSION BETWEEN 1<sup>1/4\*</sup> 2".5. ALL HANDRAILS SHALL BE CONTINUOUS OR TERMINATE AT NEWEL POST.

6. ALL GUARDRAILS SHALL BE 36" ABOVE FINISHED FLOOR AND DESIGNED SUCH THAT THE MAXIMUM OPENING WILL NOT ALLOW PASSAGE OF A 4" SPHERE.

A3.2

12'-*O*"

12'-*O*''

7. ALL GUARDRAILS SHALL BE DESIGNED TO RESIST A 200LB CONCENTRATED LOAD AT THE TOP RAIL AND 50 PSF ON ALL GUARDRAIL INFILL COMPONENTS.

 5/8" GWB AT ALL GARAGE WALLS AND CEILING AS WELL AS ANY POSTS + BEAMS.
 ACCESSIBLE AREA UNDER STAIR SHALL BE 1/2" GWB MINIMUM PER 302.7.

- ACCESSIBLE AREA ONDER STAIR STALE BE 1/2 OWB MINIMON PER SOL.
   PROVIDE A PROGRAMMABLE THERMOSTAT FOR THE PRIMARY SPACE CONDITIONING SYSTEM WITHIN EACH DWELLING UNIT PER SEC R403.1.1.
- 11. A MINIMUM OF 75 PERCENT OF PERMANENTLY INSTALLED LAMPS IN
- LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS. 12. ALL SHOWERHEADS + KITCHEN SINK FAUCETS INSTALLED IN THE UNIT SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS

SHALL BE RATED AT 1.0 GPM OR LESS. ALL OTHER

- 13. ALL EXHAUST AIR SHALL VENT DIRECTLY TO THE EXTERIOR OF THE BUILDING PER M1501.1 AND M1506.2.
- 14. CLOTHES DRYER SHALL BE EXHAUSTED TO THE OUTSIDE PER MI502.115. ALL STAIRS SHALL MEET FOLLOWING REQUIREMENTS;
- A. MINIMUM 36" WIDTH.
- B. MAXIMUM 7 3/4" RISER, MINIMUM 10" TREAD.C. MINIMUM 6'-8" HEAD ROOM
- D. MINIUM LANDING LENGTH 36"

16. A WRITTEN REPORT OF THE AIR LEAKAGE TEST RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE BUILDING INSPECTOR PRIOR TO CALL FOR FINAL INSPECTION. AIR LEAKAGE SHALL NOT EXCEED 2.0 AIR CHANGES/HOUR.

17. WHOLE HOUSE VENTILATION INTEGRATED WITH FORCED-AIR SYSTEM PER SRC M1507.3.5 AND SHALL RUN INTERMITTENTLY.

18. FIRE-BLOCKING SHALL BE PROVIDED IN THE FOLLOWING AREAS;A. CONCEALED SPACES OF STUD WALLS VERTICALLY BETWEEN CEILING AND FLOOR LEVELS + HORIZONTALLY AT INTERVALS NOT EXCEEDING 10FT

### ENERGY CREDIT CALCULATIONS:

- 2b. A. TESTED AIR LEAKAGE SHALL BE 2.0 AIR CHANGES PER1.0 HOUR MAXIMUM.B. HEAT RECOVERY VENTILATION SYSTEM
- SHALL BE INSTALLED WITH A MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.70.
- 3a. PROPANE FURNACE WITH MINIMUM AFUE OF1.094%.5c. PROPANE WATER HEATER WITH MINIMUM EF1.5

TOTAL CREDITS:

OF 0.91.

## CRAWL SPACE VENT CALC.S: CRAWL SPACE AREA 338.5 FT<sup>2</sup>

REQUIRED MECHANICAL VENTILATION (1CFM/50<sup>SF</sup> OF CRAWL SPACE AREA) PROPOSED MECHANICAL VENTING

6.77 CFM MINIMUM

3.5

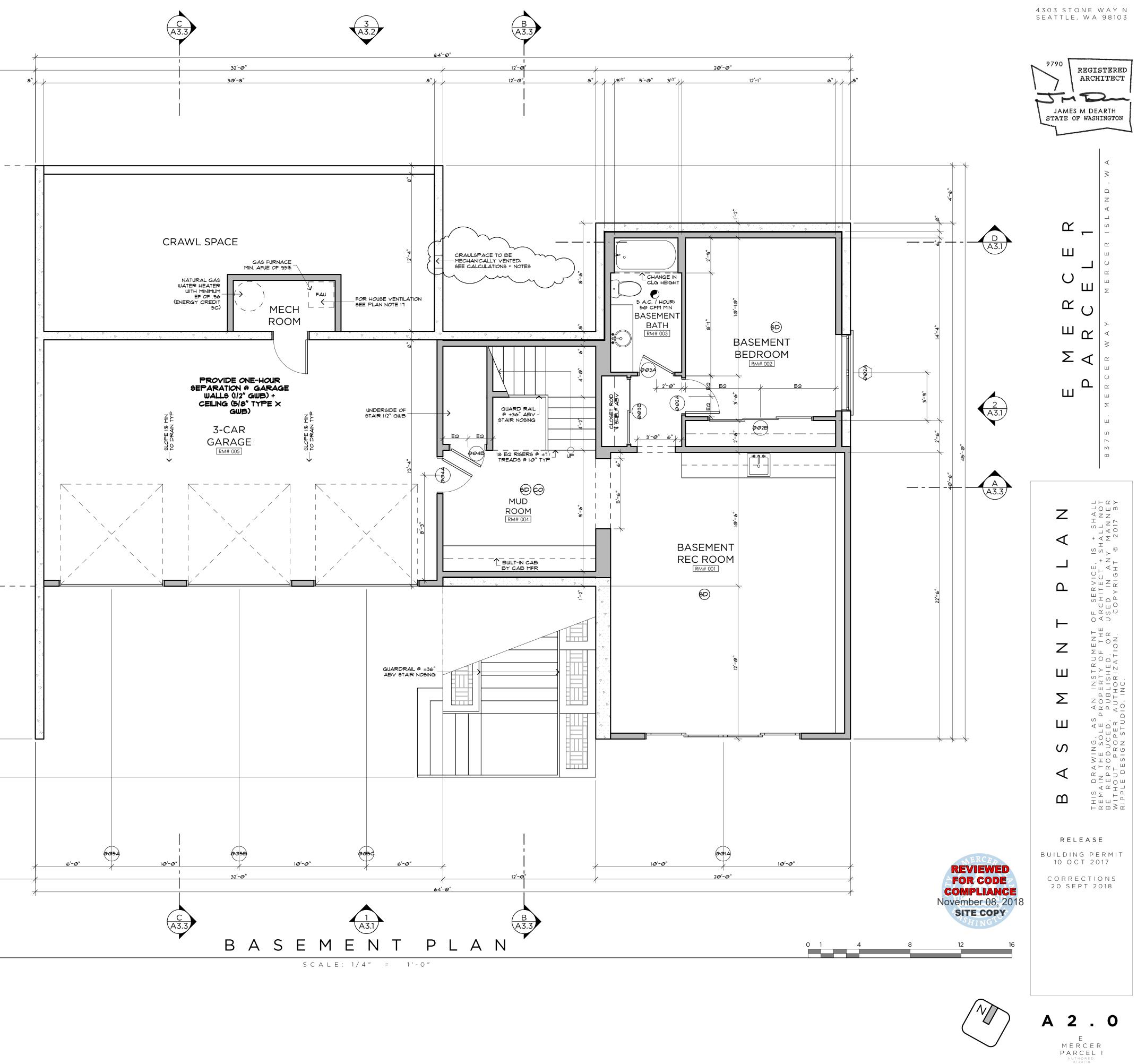
 $\begin{pmatrix} 4\\ A3.2 \end{pmatrix}$ 

## CRAWLSPACE NOTES:

1. EXPOSED EARTH IN CRAWLSPACE SHALL BE COVERED WITH A CONTINUOUS CLASS 1 VAPOR RETARDER. JOINTS OF THE VAPOR RETARDER SHALL OVERLAP BY 6 INCHES AND SHALL BE SEALED OR TAPED. THE EDGES OF THE VAPOR RETARDER SHALL EXTEND AT LEAST 6 INCHES UP THE STEM WALL; AND A RADON SYSTEM SHALL BE INSTALLED THAT MEETS THE REQUIREMENTS OF APPENDIX F OF THE WASHINGTON ADMINISTRATIVE CODE.

2. PROVIDE CONTINUOUSLY OPERATED MECHANICAL EXHAUST FOR CRAWLSPACE AREA; SEE CALCULATIONS FOR SIZING. EXHAUST VENTILATION SHALL TERMINATE TO THE EXTERIOR.

3. PROVIDE DUCTING FOR SUPPLY OR RETURN AIR SUCH THAT SPECIFIED AIRFLOW CROSSES THE LENGTH OF THE CRAWLSPACE





## FLOOR PLAN NOTES:

1. THIS PROJECT SHALL BE DESIGNED, ENGINEERED, + CONSTRUCTED IN FULL

- COMPLIANCE W/ ALL CODES + REGULATIONS.
- 2. ALL EXTERIOR WALLS SHALL BE 2x6 UNO.
- 3. ALL INTERIOR WALLS SHALL BE 2x6 UNO. 4. ALL HANDRAILS SHALL BE LOCATED @ 36" ABOVE STAIR NOSING WITH A
- GRASP DIMENSION BETWEEN 11/4" 2". 5. ALL HANDRAILS SHALL BE CONTINUOUS OR TERMINATE AT NEWEL POST.

6. ALL GUARDRAILS SHALL BE 36" ABOVE FINISHED FLOOR AND DESIGNED SUCH THAT THE MAXIMUM OPENING WILL NOT ALLOW PASSAGE OF A 4" SPHERE.

7. ALL GUARDRAILS SHALL BE DESIGNED TO RESIST A 200LB CONCENTRATED LOAD AT THE TOP RAIL AND 50 PSF ON ALL GUARDRAIL INFILL COMPONENTS.

- 8. 5/8" GWB AT ALL GARAGE WALLS AND CEILING AS WELL AS ANY POSTS + BEAMS. 9. ACCESSIBLE AREA UNDER STAIR SHALL BE 1/2" GWB MINIMUM PER 302.7.
- 10. PROVIDE A PROGRAMMABLE THERMOSTAT FOR THE PRIMARY SPACE
- CONDITIONING SYSTEM WITHIN EACH DWELLING UNIT PER SEC R403.1.1. 11. A MINIMUM OF 75 PERCENT OF PERMANENTLY INSTALLED LAMPS IN
- LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS. 12. ALL SHOWERHEADS + KITCHEN SINK FAUCETS INSTALLED IN THE UNIT
- SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS.
- 13. ALL EXHAUST AIR SHALL VENT DIRECTLY TO THE EXTERIOR OF THE BUILDING PER M1501.1 AND M1506.2.
- 14. CLOTHES DRYER SHALL BE EXHAUSTED TO THE OUTSIDE PER M1502.1 15. ALL STAIRS SHALL MEET FOLLOWING REQUIREMENTS;
- A. MINIMUM 36" WIDTH.
- B. MAXIMUM 7 3/4" RISER, MINIMUM 10" TREAD.
- C. MINIMUM 6'-8" HEAD ROOM D. MINIUM LANDING LENGTH 36"

16. A WRITTEN REPORT OF THE AIR LEAKAGE TEST RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE BUILDING INSPECTOR PRIOR TO CALL FOR FINAL INSPECTION. AIR LEAKAGE SHALL NOT EXCEED 2.0 AIR CHANGES/HOUR.

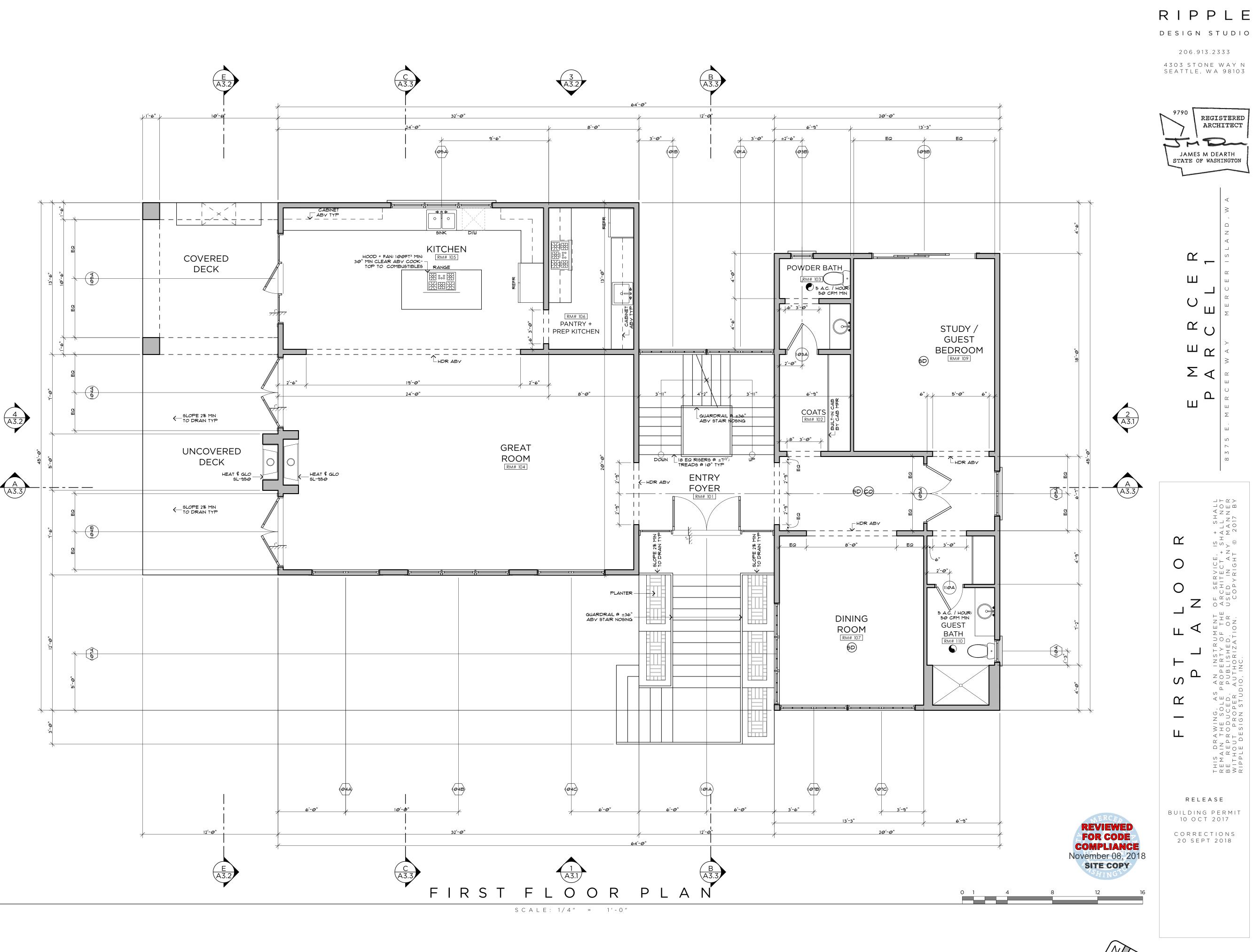
- 17. WHOLE HOUSE VENTILATION INTEGRATED WITH FORCED-AIR SYSTEM PER SRC M1507.3.5 AND SHALL RUN INTERMITTENTLY.
- 18. FIRE-BLOCKING SHALL BE PROVIDED IN THE FOLLOWING AREAS;
- A. CONCEALED SPACES OF STUD WALLS VERTICALLY BETWEEN CEILING AND FLOOR LEVELS + HORIZONTALLY AT INTERVALS NOT EXCEEDING 10FT

### ENERGY CREDIT CALCULATIONS:

- 2b. A. TESTED AIR LEAKAGE SHALL BE 2.0 AIR CHANGES PER 1.0 HOUR MAXIMUM.
- B. HEAT RECOVERY VENTILATION SYSTEM SHALL BE INSTALLED WITH A MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.70.
- 3a. PROPANE FURNACE WITH MINIMUM AFUE OF 1.0 94%.
- 5c. PROPANE WATER HEATER WITH MINIMUM EF 1.5 OF 0.91.

3.5

TOTAL CREDITS:







## FLOOR PLAN NOTES:

1. THIS PROJECT SHALL BE DESIGNED, ENGINEERED, + CONSTRUCTED IN FULL

- COMPLIANCE W/ ALL CODES + REGULATIONS.
- 2. ALL EXTERIOR WALLS SHALL BE 2x6 UNO.
- ALL INTERIOR WALLS SHALL BE 2x6 UNO.
   ALL HANDRAILS SHALL BE LOCATED @ 36" ABOVE STAIR NOSING WITH A
- 4. ALL HANDRAILS SHALL BE LOCA
- GRASP DIMENSION BETWEEN 1<sup>1/4"</sup> 2". 5. ALL HANDRAILS SHALL BE CONTINUOUS OR TERMINATE AT NEWEL POST.

6. ALL GUARDRAILS SHALL BE 36" ABOVE FINISHED FLOOR AND DESIGNED SUCH THAT THE MAXIMUM OPENING WILL NOT ALLOW PASSAGE OF A 4" SPHERE.

7. ALL GUARDRAILS SHALL BE DESIGNED TO RESIST A 200LB CONCENTRATED LOAD AT THE TOP RAIL AND 50 PSF ON ALL GUARDRAIL INFILL COMPONENTS.

- 8. 5/8" GWB AT ALL GARAGE WALLS AND CEILING AS WELL AS ANY POSTS + BEAMS.9. ACCESSIBLE AREA UNDER STAIR SHALL BE 1/2" GWB MINIMUM PER 302.7.
- ACCESSIBLE AREA ONDER STAIR STALE BE 1/2 GWB MINIMON PER SO2.7.
   PROVIDE A PROGRAMMABLE THERMOSTAT FOR THE PRIMARY SPACE CONDITIONING SYSTEM WITHIN FACILIDWELLING LINIT PER SEC P40711
- CONDITIONING SYSTEM WITHIN EACH DWELLING UNIT PER SEC R403.1.1. 11. A MINIMUM OF 75 PERCENT OF PERMANENTLY INSTALLED LAMPS IN
- LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS. 12. ALL SHOWERHEADS + KITCHEN SINK FAUCETS INSTALLED IN THE UNIT
- SHALL BE RATED AT 1.75 GPM OR LESS. ALL OTHER LAVATORY FAUCETS SHALL BE RATED AT 1.0 GPM OR LESS.
- 13. ALL EXHAUST AIR SHALL VENT DIRECTLY TO THE EXTERIOR OF THE BUILDING PER M1501.1 AND M1506.2.
- 14. CLOTHES DRYER SHALL BE EXHAUSTED TO THE OUTSIDE PER M1502.1
   15. ALL STAIRS SHALL MEET FOLLOWING REQUIREMENTS;
- A. MINIMUM 36" WIDTH.
- B. MAXIMUM 7 3/4" RISER, MINIMUM 10" TREAD.C. MINIMUM 6'-8" HEAD ROOM
- D. MINIUM LANDING LENGTH 36"

16. A WRITTEN REPORT OF THE AIR LEAKAGE TEST RESULTS SHALL BE SIGNED BY THE TESTING PARTY AND PROVIDED TO THE BUILDING INSPECTOR PRIOR TO CALL FOR FINAL INSPECTION. AIR LEAKAGE SHALL NOT EXCEED 2.0 AIR CHANGES/HOUR.

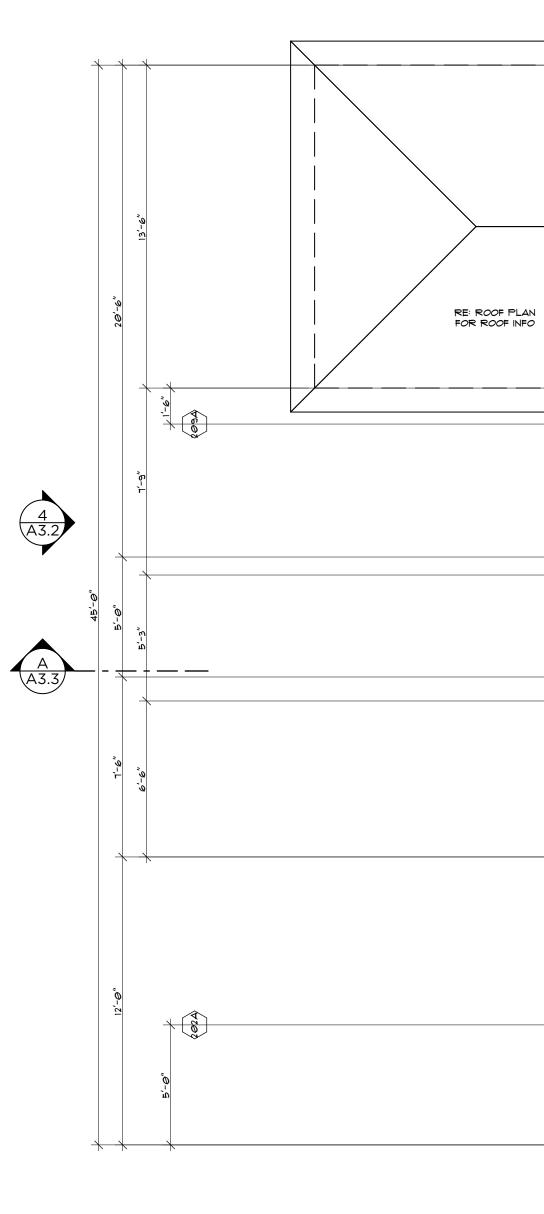
- 17. WHOLE HOUSE VENTILATION INTEGRATED WITH FORCED-AIR SYSTEM PER SRC M1507.3.5 AND SHALL RUN INTERMITTENTLY.
- 18. FIRE-BLOCKING SHALL BE PROVIDED IN THE FOLLOWING AREAS;
- A. CONCEALED SPACES OF STUD WALLS VERTICALLY BETWEEN CEILING AND FLOOR LEVELS + HORIZONTALLY AT INTERVALS NOT EXCEEDING 10FT

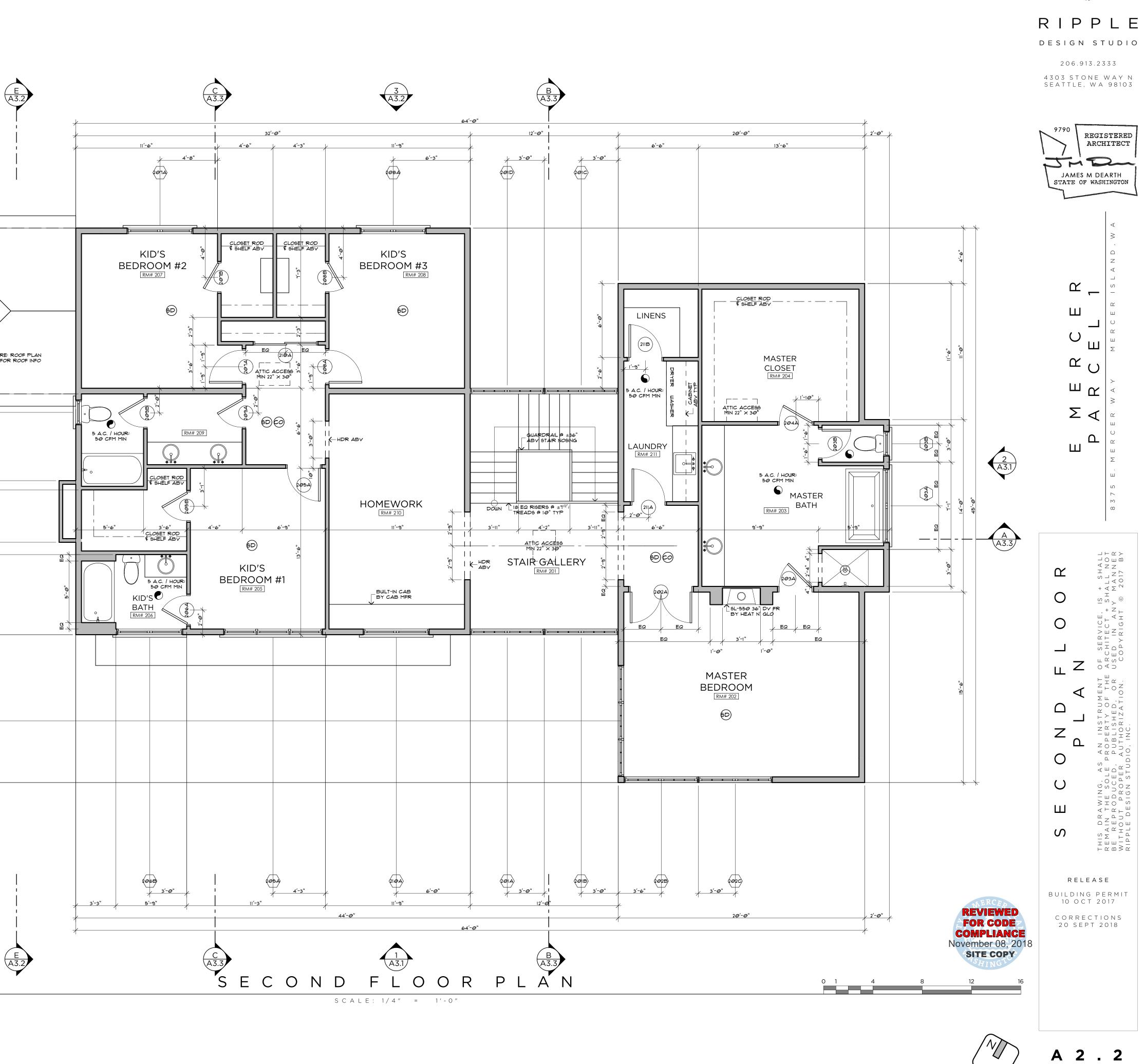
### ENERGY CREDIT CALCULATIONS:

- 2b. A. TESTED AIR LEAKAGE SHALL BE 2.0 AIR CHANGES PER 1.0 HOUR MAXIMUM.
- B. HEAT RECOVERY VENTILATION SYSTEM SHALL BE INSTALLED WITH A MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.70.
- 3a. PROPANE FURNACE WITH MINIMUM AFUE OF 1.0 94%.
- 5c. PROPANE WATER HEATER WITH MINIMUM EF 1.5 OF 0.91.

3.5

TOTAL CREDITS:





E MERCER PARCEL 1 AUTHORED: 9/20/18

## ROOF NOTES:

1. CHIMNEY SHALL EXTEND A MIN OF 2'-0" ABV ROOF OR PARAPET WITHIN 10'-0" RADIUS OF CHIMNEY. PROVIDE APPROVED SPARK ARRESTOR @ ALL CHIMNEY CAPS. ALL ARCHITECTURAL FEATURES MUST BE PERMITTED BY FLU + SPARK ARRESTOR MFR APPROVAL.

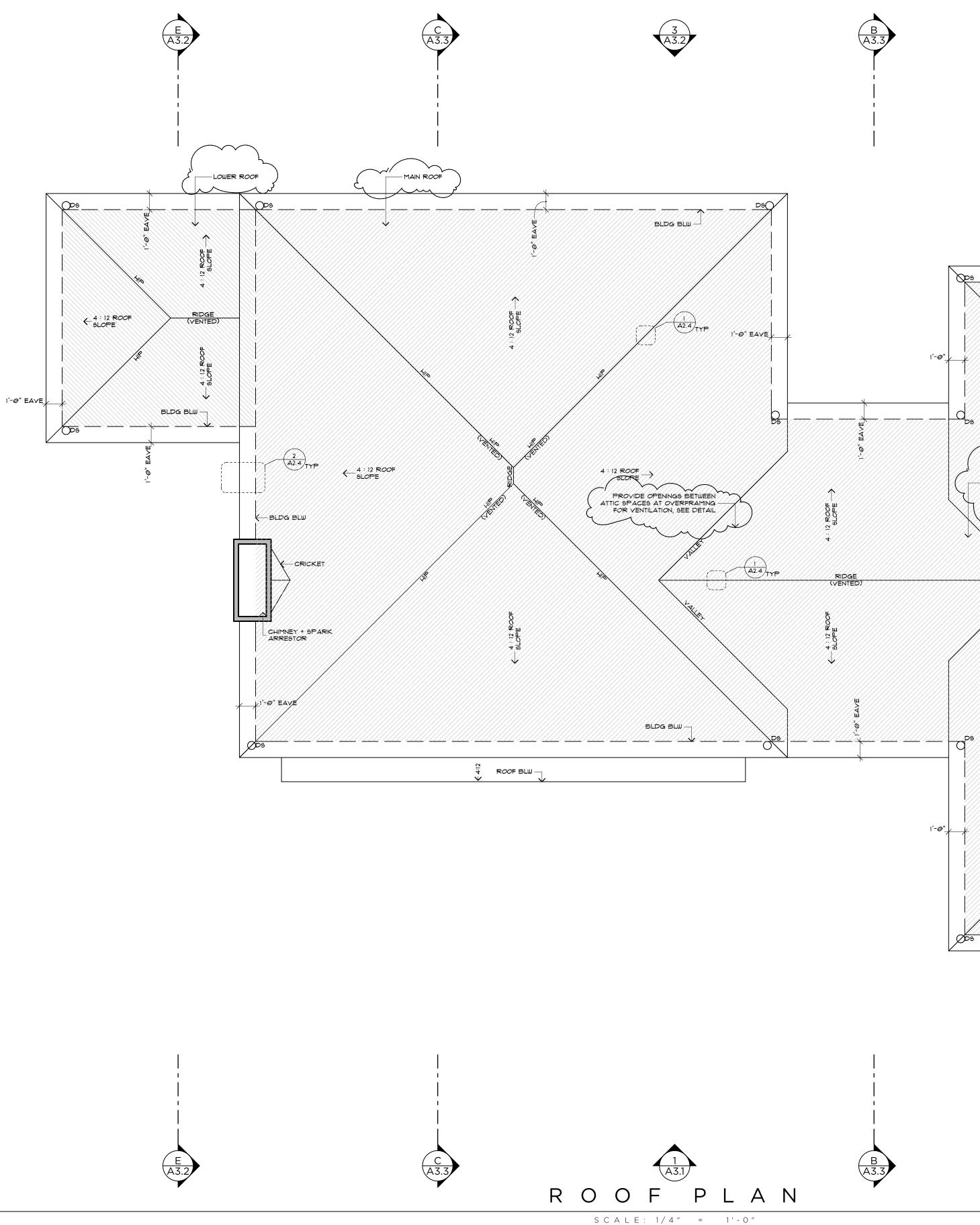
2. COORDINATE DOWNSPOUT LOCATION W/ RIPPLE DESIGN STUDIO, INC. PRIOR TO INSTALLATION. 3. ALL VENTS SHALL BE LOCATED AWAY FROM VISIBILITY @ PUBLIC RIGHT-

OF-WAY. 4. TRUSS MANUFACTURERS TO PROVIDE TRUSS SHOP DRAWINGS TO RIPPLE DESIGN STUDIO FOR DESIGN APPROVAL PRIOR TO TRUSS MANUFACTURING.

5. ATTIC SHALL BE VENTED THROUGH EAVE, RIDGE, AND HIP VENTS AS WELL AS VENTILATION HOLES IN SHEATHING BETWEEN ATTIC SPACES.

### ATTIC VENTILATION CALCULATIONS:

ATTIC AREA - MAIN ROOF REQUIRED VENTING (1/150)	2,129.00 <b>14.19</b>	
LINEAR FEET OF RIDGE / HIP VE PROPOSED RIDGE / HIP VENTING (@13.5 sg in NET/ FOOT [COR-A-VENT	G 5.58	
LINEAR FEET OF EAVE VENTING PROPOSED EAVE VENTING (@3.14 sq in PER 2" HOLE @ BLOCKING T	10.25	
ATTIC AREA - LOWER ROOF REQUIRED VENTING (1/150) LINEAR FEET OF RIDGE VENTING PROPOSED RIDGE VENTING	161.50 <b>1.08</b> 5.00 <b>0.31</b>	
(@12 sq in NET/ FOOT) LINEAR FEET OF EAVE VENTING PROPOSED EAVE VENTING (@3.14 sq in PER 2" HOLE @ BLOCKING <b>T</b>	1.64	
(4)-1.5" Ø HOLES PER TRUSS BAY ØALL AREAS TO- BE OVER-FRAMED TR VEN SCAL	TING	

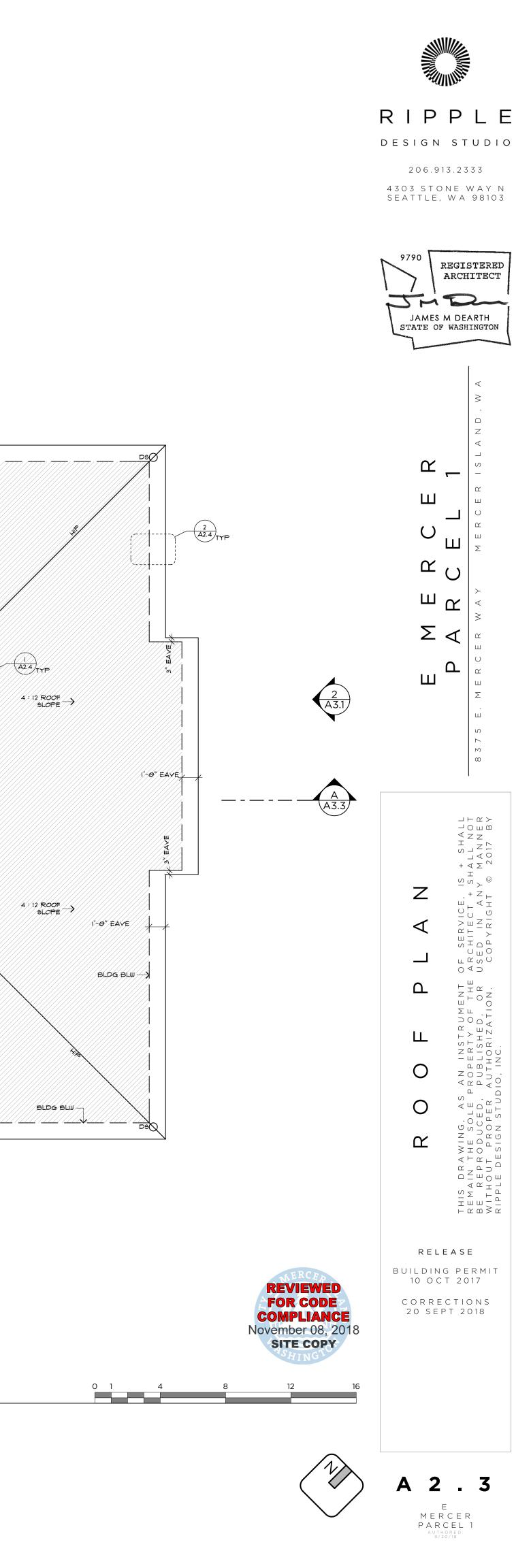






- \_ \_ \_ \_ \_ \_





PROVIDE OPENINGS BETWEEN - ATTIC SPACES AT OVERFRAMING FOR VENTILATION, SEE DETAIL

CRICKET

4:12 ROOF SLOPE

4 5

<del>\_\_\_\_</del>/

- BLDG BLW

₩.Ĭ ROOP

### ROOF NOTES:

1. CHIMNEY SHALL EXTEND A MIN OF 2'-0" ABV ROOF OR PARAPET WITHIN 10'-0" RADIUS OF CHIMNEY. PROVIDE APPROVED SPARK ARRESTOR @ ALL CHIMNEY CAPS. ALL ARCHITECTURAL FEATURES MUST BE PERMITTED BY FLU + SPARK ARRESTOR MFR APPROVAL.

2. COORDINATE DOWNSPOUT LOCATION W/ RIPPLE DESIGN STUDIO, INC. PRIOR TO INSTALLATION. 3. ALL VENTS SHALL BE LOCATED AWAY FROM VISIBILITY @ PUBLIC RIGHT-

OF-WAY. 4. TRUSS MANUFACTURERS TO PROVIDE TRUSS SHOP DRAWINGS TO RIPPLE DESIGN STUDIO FOR DESIGN APPROVAL PRIOR TO TRUSS MANUFACTURING.

5. ATTIC SHALL BE VENTED THROUGH EAVE, RIDGE, AND HIP VENTS AS WELL AS VENTILATION HOLES IN SHEATHING BETWEEN ATTIC SPACES.

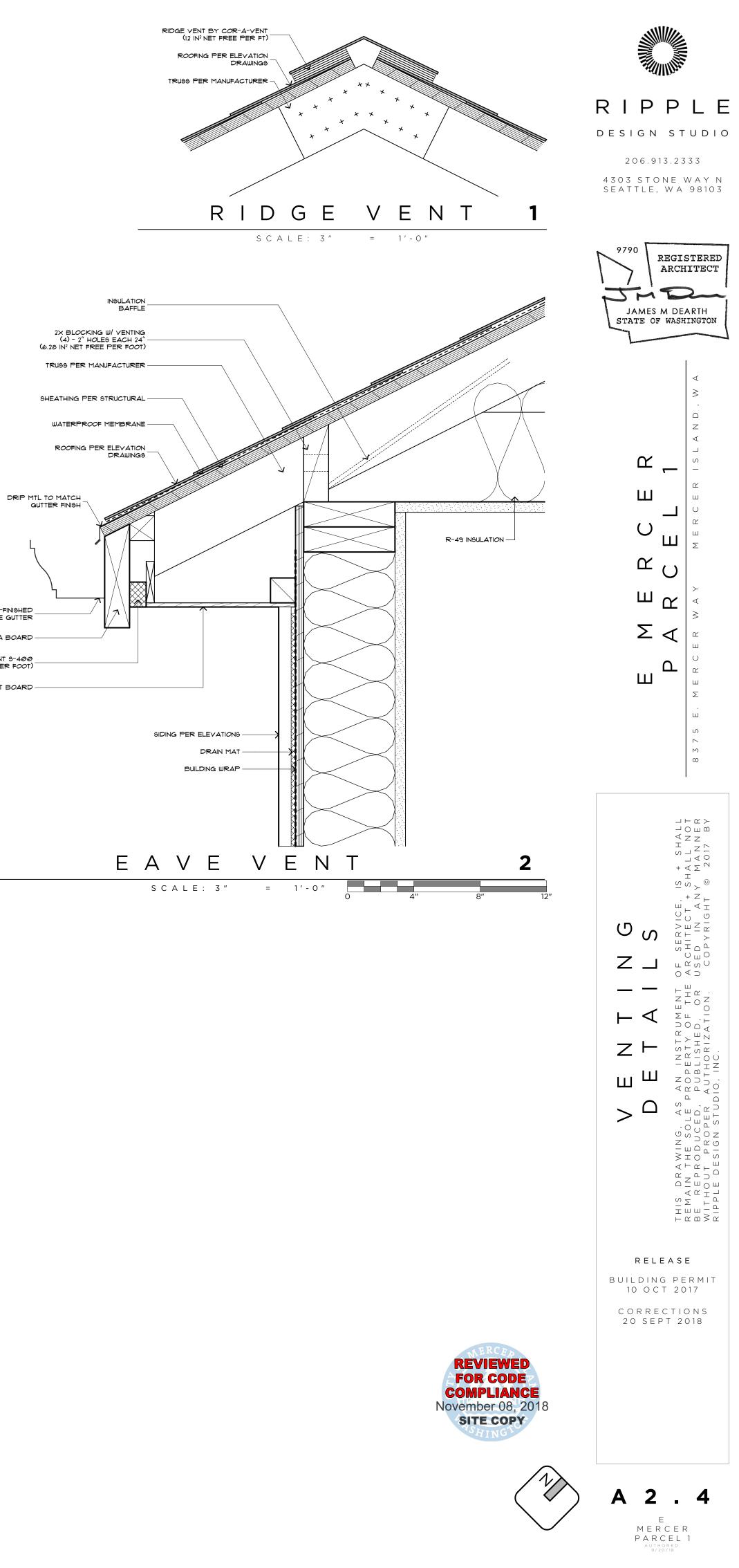
### ATTIC VENTILATION CALCULATIONS:

ATTIC AREA - MAIN ROOF	2,129.00	
REQUIRED VENTING (1/150)	14.19	
LINEAR FEET OF RIDGE / HIP VENTING	59.50	
PROPOSED RIDGE / HIP VENTING	5.58	
(@13.5 sq in NET/ FOOT [COR-A-VENT V-300])		
LINEAR FEFT OF EAVE VENTING	235.00	
PROPOSED EAVE VENTING	10.25	
(@3.14 sq in PER 2" HOLE @ BLOCKING, 2 HOLES / FT = 6.28 sq in / FT)		
TOTAL PROPOSED VENTILATION	15.83	
ATTIC AREA - LOWER ROOF	161.50	
REQUIRED VENTING (1/150)	1.08	
LINEAR FEET OF RIDGE VENTING	5.00	
PROPOSED RIDGE VENTING	0.31	
(@12 sq in NET/ FOOT)		
	77.50	
LINEAR FEET OF EAVE VENTING	37.50	
PROPOSED EAVE VENTING	1.64	
(@3.14 sq in PER 2" HOLE @ BLOCKING, 2 HOLES / FT = 6.28 sq in / FT)		
TOTAL PROPOSED VENTILATION	1.95	

5" FACTORY-FINISHED K-STYLE GUTTER PAINTED FASCIA BOARD -

COR-A-VENT 5-400 (10 IN2 NET FREE PER FOOT)

HARDIE SOFFIT BOARD







## ELEVATION + SECTION NOTES:

1. CHIMNEY SHALL EXTEND A MIN OF 2'-0" ABV ROOF OR PARAPET WITHIN 10'-0" RADIUS OF CHIMNEY. PROVIDE APPROVED SPARK ARRESTOR @ ALL CHIMNEY CAPS. ALL ARCHITECTURAL FEATURES MUST BE PERMITTED BY FLU + SPARK ARRESTOR MFR APPROVAL.

2. OPEN GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERN SUCH THAT A 4" SPHERE CANNOT PASS THROUGH. 3. STUCCO INSTALLATION SHALL BE IN COMPLIANCE WITH ASTM C 926, ASTM

### BASEMENT FLOOR AREA CALC.S:

C 1063.

WALL SEGMENT A LENGTH:	20'
WALL SEGMENT A COVERAGE:	100%
	(20.00 FT % RESULT)
WALL SEGMENT B LENGTH:	12'
WALL SEGMENT B COVERAGE:	100%
	(12.00 FT % RESULT)
WALL SEGMENT C LENGTH:	8.5′
WALL SEGMENT C COVERAGE:	100%
	(8.50 FT % RESULT)
WALL SEGMENT D LENGTH:	20'
WALL SEGMENT D COVERAGE:	75%
	(15.00 FT % RESULT)
WALL SEGMENT E LENGTH:	40.5′
WALL SEGMENT A COVERAGE:	50 FT %
	(20.25 FT % RESULT)
WALL SEGMENT F LENGTH:	20'
WALL SEGMENT B COVERAGE:	0%
	(0.00 FT % RESULT)
WALL SEGMENT G LENGTH:	12'
WALL SEGMENT C COVERAGE:	75%
	(9.00 FT % RESULT)
WALL SEGMENT H LENGTH:	12'
WALL SEGMENT D COVERAGE:	100%
	(12.00 FT % RESULT)
TOTAL SEGMENT LENGTHS:	145 FT <sup>2</sup>
TOTAL SEGMENT COVERAGE RESULTS:	XX.XX FT %
GROSS BASEMENT FLOOR AREA	952 FT <sup>2</sup>
GROSS BASEMENT FLOOR % TO BE EXCLUDED:	75%
GROSS BASEMENT FLOOR AREA TO BE	714.00 FT <sup>2</sup>

## AVERAGE BUILDING ELEVATION CALC.S:

ELEVATION @ POINT A: SEGMENT LENGTH @ POINT A:

EXCLUDED:

ELEVATION @ POINT B: SEGMENT LENGTH @ POINT B:

ELEVATION @ POINT C: SEGMENT LENGTH @ POINT C:

ELEVATION @ POINT D: SEGMENT LENGTH @ POINT D:

ELEVATION @ POINT E: SEGMENT LENGTH @ POINT E:

ELEVATION @ POINT F:

SEGMENT LENGTH @ POINT F: ELEVATION @ POINT G:

SEGMENT LENGTH @ POINT G:

ELEVATION @ POINT H: SEGMENT LENGTH @ POINT H:

ELEVATION @ POINT I: SEGMENT LENGTH @ POINT I:

ELEVATION @ POINT J: SEGMENT LENGTH @ POINT J:

ELEVATION @ POINT K:

SEGMENT LENGTH @ POINT K: ELEVATION @ POINT L:

SEGMENT LENGTH @ POINT L:

TOTAL ELEVs x SEGMENT LENGTHS: TOTAL SEGMENT LENGTHS: AVERAGE NATURAL GRADE (ANG):

169.50′
3.5′
(593.25' @ ELEV x LENGTH)
169.90′
32'
(5,436.80' @ ELEV x LENGTH)
171.00′
33'
(5,643.00' @ ELEV x LENGTH)
171.80′
32'
(5,497.60' @ ELEV x LENGTH)
171.50′
13′
(2,229.50' @ ELEV x LENGTH)
171.50′
12'
(2,058.00' @ ELEV x LENGTH)
171.50′
8.5′
(1,457.75' @ ELEV x LENGTH)
170.25′
20'
(3,405.00' @ ELEV x LENGTH)
168.60′
40.5′
(6,828.30 @ ELEV x LENGTH)
159.60′
20'
(3,192.00' @ ELEV x LENGTH)
165.50′
15.5′
(2,565.25' @ ELEV x LENGTH)
169.50′
12'
(2,034.00' @ ELEV x LENGTH)

40,940.45′ 242' 169.18′



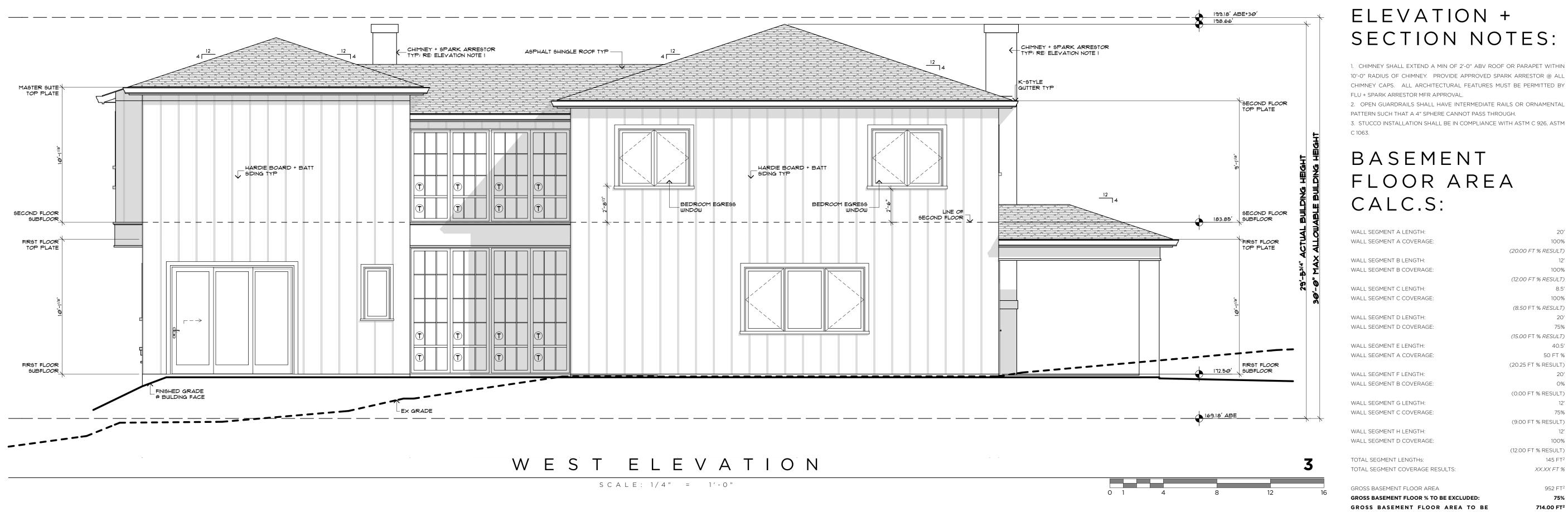


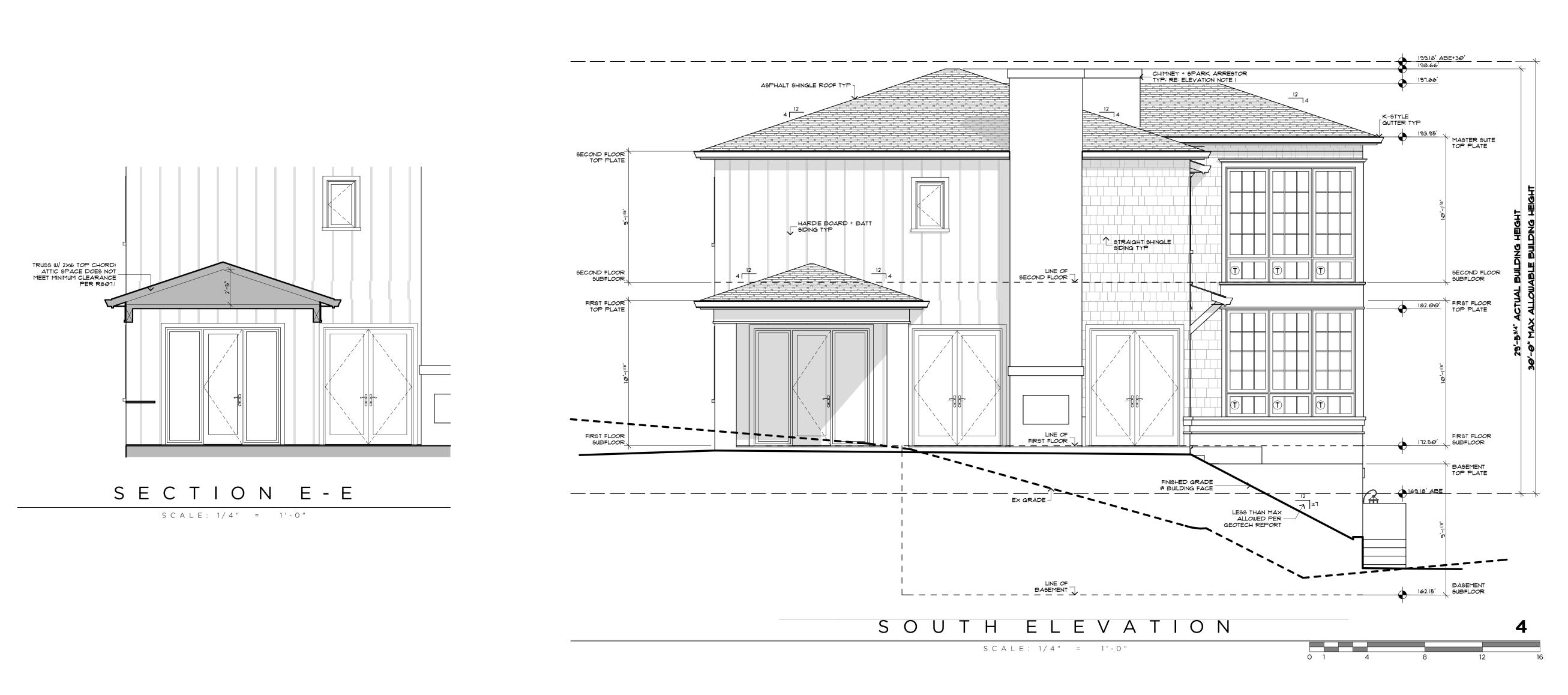


SHALL LNOT NNER 17 BY S + Z \_ Z ڻ Z 0  $\Box \vdash$ \_ ∢ -> $\supset$   $\square$ ш Ш ≤ΙΟ 

RELEASE BUILDING PERMIT 10 OCT 2017 CORRECTIONS 20 SEPT 2018











1. CHIMNEY SHALL EXTEND A MIN OF 2'-0" ABV ROOF OR PARAPET WITHIN 10'-0" RADIUS OF CHIMNEY. PROVIDE APPROVED SPARK ARRESTOR @ ALL CHIMNEY CAPS. ALL ARCHITECTURAL FEATURES MUST BE PERMITTED BY

WALL SEGMENT A LENGTH:	20'
WALL SEGMENT A COVERAGE:	100%
	(20.00 FT % RESULT)
WALL SEGMENT B LENGTH:	12'
WALL SEGMENT B COVERAGE:	100%
	(12.00 FT % RESULT)
WALL SEGMENT C LENGTH:	8.5′
WALL SEGMENT C COVERAGE:	100%
	(8.50 FT % RESULT)
WALL SEGMENT D LENGTH:	20'
WALL SEGMENT D COVERAGE:	75%
	(15.00 FT % RESULT)
WALL SEGMENT E LENGTH:	40.5′
WALL SEGMENT A COVERAGE:	50 FT %
	(20.25 FT % RESULT)
WALL SEGMENT F LENGTH:	20'
WALL SEGMENT B COVERAGE:	0%
	(0.00 FT % RESULT)
WALL SEGMENT G LENGTH:	12'
WALL SEGMENT C COVERAGE:	75%
	(9.00 FT % RESULT)
WALL SEGMENT H LENGTH:	12'
WALL SEGMENT D COVERAGE:	100%
	(12.00 FT % RESULT)
TOTAL SEGMENT LENGTHs:	145 FT <sup>2</sup>
TOTAL SEGMENT COVERAGE RESULTS:	XX.XX FT %
GROSS BASEMENT FLOOR AREA	952 FT <sup>2</sup>
GROSS BASEMENT FLOOR % TO BE EXCLUDED:	75%
GROSS BASEMENT FLOOR AREA TO BE	714.00 FT <sup>2</sup>



ELEVATION @ POINT A: SEGMENT LENGTH @ POINT A:

EXCLUDED:

ELEVATION @ POINT B: SEGMENT LENGTH @ POINT B:

ELEVATION @ POINT C: SEGMENT LENGTH @ POINT C:

ELEVATION @ POINT D: SEGMENT LENGTH @ POINT D:

ELEVATION @ POINT E: SEGMENT LENGTH @ POINT E:

ELEVATION @ POINT F:

SEGMENT LENGTH @ POINT F: ELEVATION @ POINT G:

SEGMENT LENGTH @ POINT G:

ELEVATION @ POINT H: SEGMENT LENGTH @ POINT H:

ELEVATION @ POINT I: SEGMENT LENGTH @ POINT I:

ELEVATION @ POINT J: SEGMENT LENGTH @ POINT J:

ELEVATION @ POINT K: SEGMENT LENGTH @ POINT K:

ELEVATION @ POINT L:

SEGMENT LENGTH @ POINT L:

TOTAL ELEVs x SEGMENT LENGTHs: TOTAL SEGMENT LENGTHS: AVERAGE NATURAL GRADE (ANG):

R		I	Ρ	Ρ	)	L	-	Ε
DI	ES	5	GΝ	S	т	U	D	0
		20	6.9	13.2	23	33		
			STO					



ЧА NOT NBR  $| \land \bigcirc$ S + Z \_ ZU Z 0 \_\_\_\_\_  $\Box \vdash$ \_ ∢ -> $\supset$   $\square$ ш Ш ≤ΙΟ

RELEASE BUILDING PERMIT 10 OCT 2017

тшш\_

 $\vdash$   $\alpha$   $\alpha \ge \alpha$ 

CORRECTIONS 20 SEPT 2018



AUTHORED: 9/20/18





REVIEWED

FOR CODE

COMPLIANCE lovember 08, 2018

SITE COPY

169.50′

169.90′

171.00′

33'

171.80′

171.50′

171.50′

13′

32'

(593.25' @ ELEV x LENGTH)

(5,436.80' @ ELEV x LENGTH)

(5,643.00' @ ELEV x LENGTH)

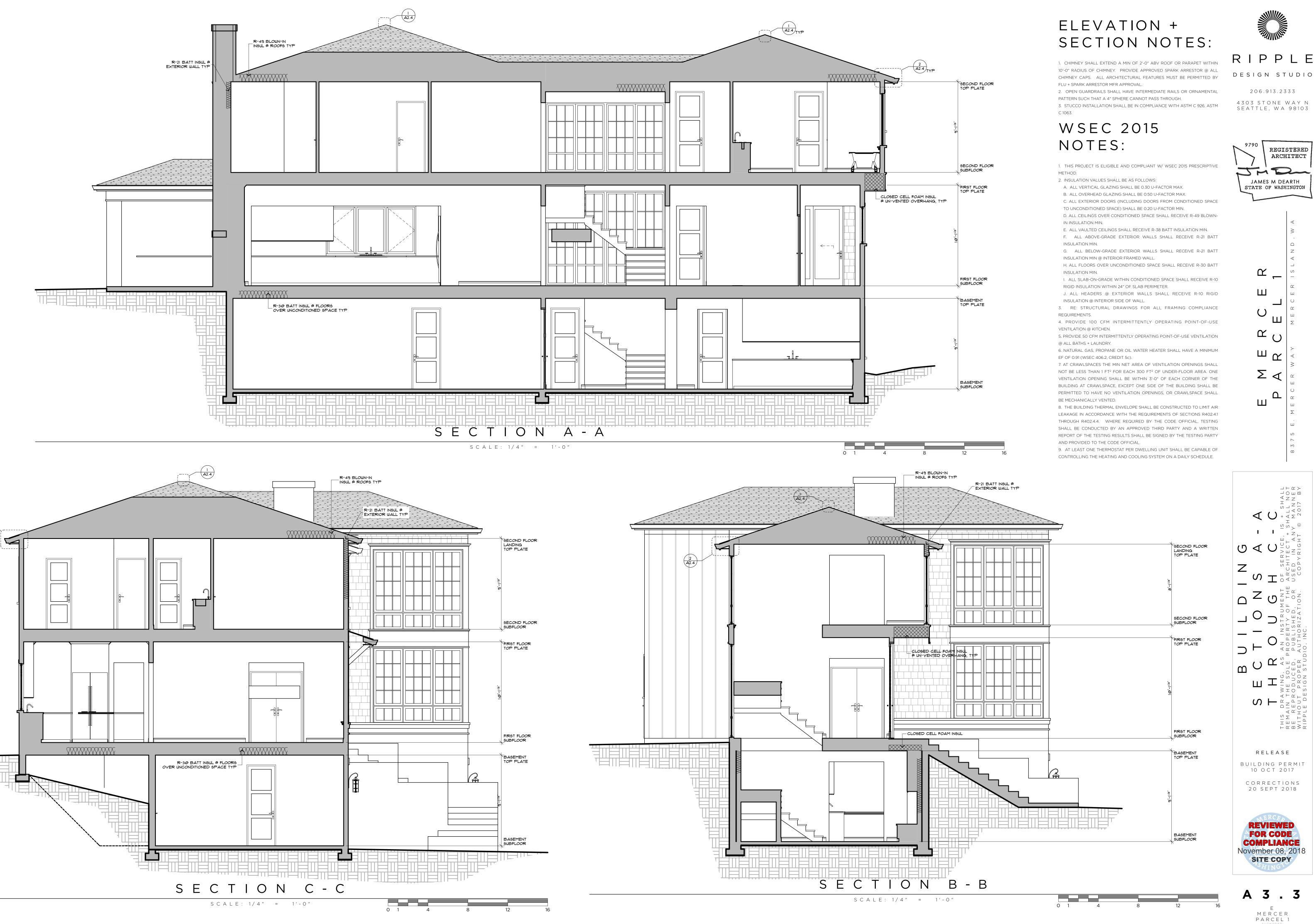
(5,497.60' @ ELEV x LENGTH)

(2,229.50' @ ELEV x LENGTH)

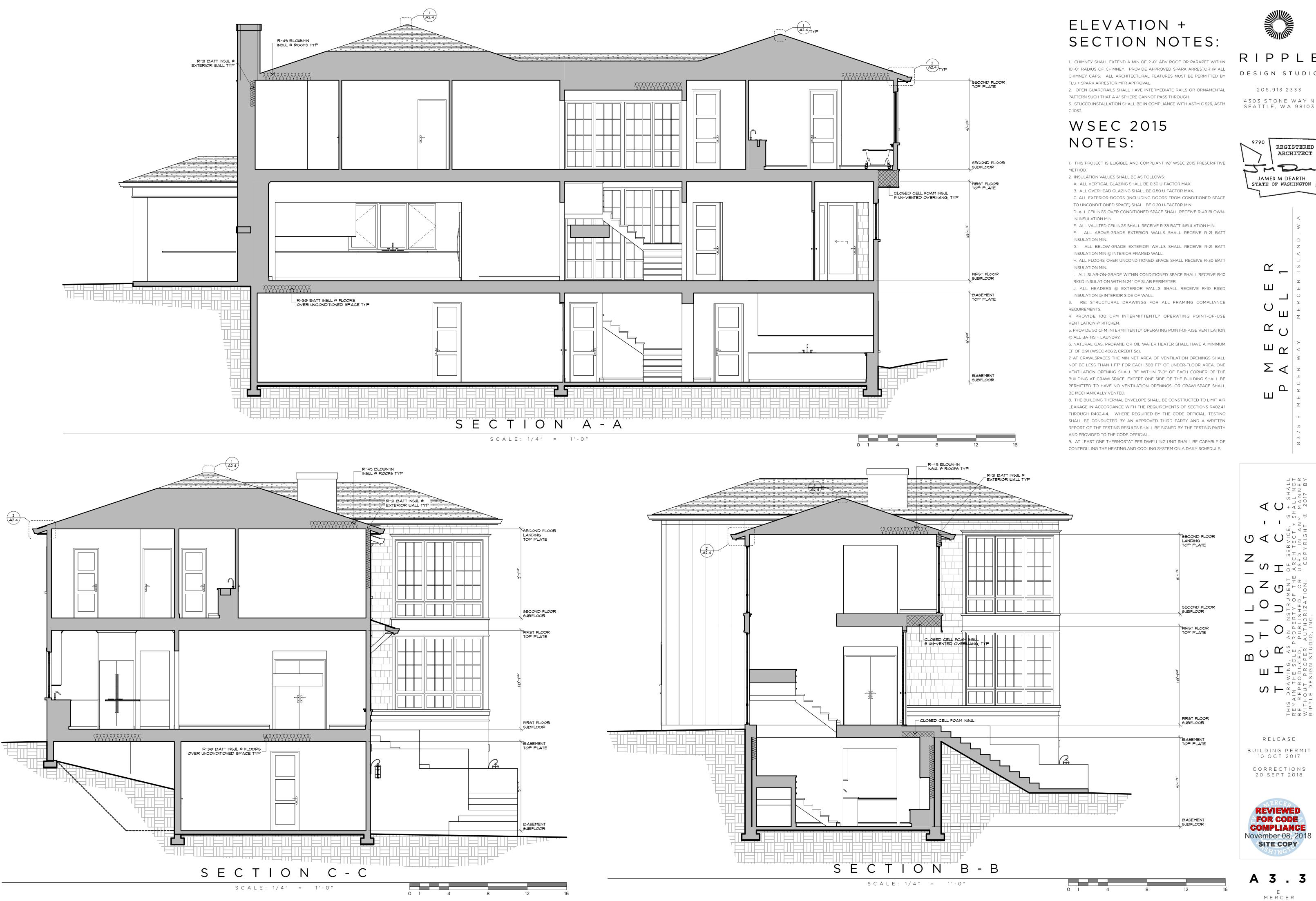
(2,058.00' @ ELEV x LENGTH)

3.5′

32'



AUTHORED: 9/20/18



### DOOR SCHEDULE:

DOOR NO.	WIDTH	HEIGHT	ТҮРЕ	MATERIAL	FINISH	REMARKS
001A	12'-0"	8'-0"	FRENCH SLIDER	ALUMINUM / GLASS		4 PANEL, DIVIDED LIGHT
002A	2'-8"	7'-0"	PANEL	WOOD		
002B	8'-0"	7'-0"	SLIDER	WOOD		TRIPLE BY-PASS CLOSET
003A	2'-8"	8'-0"	PANEL	WOOD		PRIVACY LOCK
003B	5'-0"	7'-0"	SLIDER	WOOD		DOUBLE BY-PASS CLOSET
004A	2'-8"	8'-0"	PANEL	WOOD		AUTO-CLOSER, 20 MIN. RATED
004A	2'-8"	8'-0"	PANEL	WOOD		AUTO-CLOSER, 20 MIN. RATED
004B	2'-8"	8'-0"	PANEL	WOOD		
005A	8'-0"	8'-0"	OVERHEAD	WOOD		GARAGE DOOR
005B	8'-0"	8'-0"	OVERHEAD	WOOD		GARAGE DOOR
005C	8'-0"	8'-0"	OVERHEAD	WOOD		GARAGE DOOR
101A	6'-0"	9'-6"	FRENCH	ALUMINUM / GLASS		PAIR, DIVIDED LIGHT, W/3'-0" SIDELIGHTS
103A	2'-8"	8'-0"	PANEL	WOOD		PRIVACY LOCK
104A	6'-0"	8'-0"	FRENCH	ALUMINUM / GLASS		PAIR, DIVIDED LIGHT
104B	6'-0"	8'-0"	FRENCH	ALUMINUM / GLASS		PAIR, DIVIDED LIGHT
105A	2'-8"	8'-0"	FRENCH	ALUMINUM / GLASS		DIVIDED LIGHT, W/ 2'-8" SIDELIGHTS
109A	5'-0"	7'-0"	PANEL	WOOD		PAIR, PRIVACY LOCK
109B	9'-0"	8'-0"	FRENCH SLIDER	ALUMINUM / GLASS		3-PANEL, DIVIDED LIGHT
110A	2'-4"	8'-0"	PANEL	WOOD		
202A	5'-0"	8'-0"	PANEL	WOOD		PAIR, PRIVACY LOCK
203A	2'-8"	8'-0"	PANEL	WOOD		
203B	2'-4"	8'-0"		WOOD		
204A	2'-8"	8'-0"	PANEL	WOOD		
205A	2'-8"	7'-0"	PANEL	WOOD		PRIVACY LOCK
205B	2'-4"	7'-0"	PANEL	WOOD		
206A	2'-4"	7'-0"	PANEL	WOOD		
207A	2'-8"	7'-0"	PANEL	WOOD		PRIVACY LOCK
207B	2'-4"	7'-0"	PANEL	WOOD		
208A	2'-8"	7'-0"	PANEL	WOOD		PRIVACY LOCK
208B	2'-4"	7'-0"	PANEL	WOOD		
209A	2'-4"	7'-0"	PANEL	WOOD		
209B	2'-4"	7'-0"	PANEL	WOOD		PRIVACY LOCK
210A	5'-0"	7'-0"	SLIDER	WOOD		
211A	2'-8"	8'-0"	PANEL	WOOD		
211B	2'-8"	8'-0"	PANEL	WOOD		

### WINDOW SCHEDULE:

WINDOW NO.	WIDTH	HEIGHT	HEADER	ТҮРЕ	MATERIAL	FINISH	REMARKS
002A	6'-0''	5'-0''	8'-0''	DOUBLE CASEMENT	ALUMINUM		DIVIDED LIGHT, SAFETY GLAZING, EGRESS
101A	6'-0''	9'-6''	9'-6''	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING
101B	6'-0''	9'-6''	9'-6''	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING
103B	2'-0''	4'-0''	8'-0''	CASEMENT	ALUMINUM		DIVIDED LIGHT
104A	6'-0''	7'-6"	9'-6''	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
104B	9'-0''	7'-6"	9'-6''	FIXED	ALUMINUM		TRIPLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
104C	6'-0''	7'-6"	9'-6''	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
105A	9'-0''	5'-0''	8'-0''	CASEMENT	ALUMINUM		TRIPLE, DIVIDED LIGHT
107A	9'-0''	7'-6"	9'-6''	FIXED	ALUMINUM		TRIPLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
107B	6'-0''	7'-6"	9'-6''	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
107C	6'-0''	7'-6"	9'-6''	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
109A	4'-0''	4'-0''	8'-0''	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT
110A	2'-0''	4'-0''	8'-0''	CASEMENT	ALUMINUM		DIVIDED LIGHT, SAFETY GLAZING
201A	6'-0''	7'-0''	7'-0''	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING
201B	6'-0''	7'-0''	7'-0''	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING
201C	6'-0''	7'-0''	7'-0''	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING
201D	6'-0''	7'-0''	7'-0''	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING
202A	9'-0''	8'-0''	8'-0''	FIXED	ALUMINUM		TRIPLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
202B	6'-0''	8'-0''	8'-0''	FIXED	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING
202C	6'-0''	8'-0''	8'-0''	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING @ LOWER AWNING, FALL PROTECTION, EGRESS
203A	6'-0''	5'-6''	8'-0''	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT, SAFETY GLAZING
203B	2'-0''	4'-0''	8'-0''	CASEMENT	ALUMINUM		DIVIDED LIGHT
205A	8'-0''	5'-0''	7'-0''	CASEMENT	ALUMINUM		TRIPLE, DIVIDED LIGHT, EGRESS
206B	5'-4''	5'-0''	7'-0''	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT
207A	5'-4''	4'-6''	7'-0''	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT, EGRESS
208A	5'-4''	4'-6''	7'-0''	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT, EGRESS
209A	2'-0''	3'-6"	7'-0''	CASEMENT	ALUMINUM		DIVIDED LIGHT
210A	5'-4''	5'-0''	7'-0''	CASEMENT	ALUMINUM		DOUBLE, DIVIDED LIGHT



1. THIS PROJECT IS ELIGIBLE AND COMPLIANT W/ WSEC 2015 PRESCRIPTIVE METHOD.

INSULATION VALUES SHALL BE AS FOLLOWS:
 A. ALL VERTICAL GLAZING SHALL BE 0.30 U-FACTOR MAX.

B. ALL OVERHEAD GLAZING SHALL BE 0.50 U-FACTOR MAX.

C. ALL EXTERIOR DOORS (INCLUDING DOORS FROM CONDITIONED SPACE

TO UNCONDITIONED SPACE) SHALL BE 0.20 U-FACTOR MIN. D. ALL CEILINGS OVER CONDITIONED SPACE SHALL RECEIVE R-49 BLOWN-IN INSULATION MIN.

E. ALL VAULTED CEILINGS SHALL RECEIVE R-38 BATT INSULATION MIN. F. ALL ABOVE-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT INSULATION MIN.

G. ALL BELOW-GRADE EXTERIOR WALLS SHALL RECEIVE R-21 BATT INSULATION MIN @ INTERIOR FRAMED WALL. H. ALL FLOORS OVER UNCONDITIONED SPACE SHALL RECEIVE R-30 BATT

INSULATION MIN.

I. ALL SLAB-ON-GRADE WITHIN CONDITIONED SPACE SHALL RECEIVE R-10

Display and the state of the period of the period state.

RIGID INSULATION WITHIN 24" OF SLAB PERIMETER. J. ALL HEADERS @ EXTERIOR WALLS SHALL RECEIVE R-10 RIGID INSULATION @ INTERIOR SIDE OF WALL.

3. RE: STRUCTURAL DRAWINGS FOR ALL FRAMING COMPLIANCE REQUIREMENTS.

 PROVIDE 100 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION @ KITCHEN.
 PROVIDE 50 CFM INTERMITTENTLY OPERATING POINT-OF-USE VENTILATION

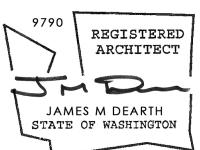
@ ALL BATHS + LAUNDRY.
6. NATURAL GAS, PROPANE OR OIL WATER HEATER SHALL HAVE A MINIMUM

EF OF 0.91 (WSEC 406.2, CREDIT 5c). 7. AT CRAWLSPACES THE MIN NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 FT<sup>2</sup> FOR EACH 300 FT<sup>2</sup> OF UNDER-FLOOR AREA. ONE VENTILATION OPENING SHALL BE WITHIN 3'-0" OF EACH CORNER OF THE BUILDING AT CRAWLSPACE, EXCEPT ONE SIDE OF THE BUILDING SHALL BE PERMITTED TO HAVE NO VENTILATION OPENINGS, OR CRAWLSPACE SHALL BE MECHANICALLY VENTED.

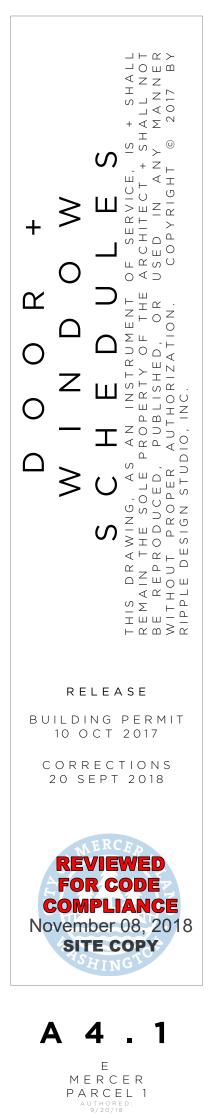
8. THE BUILDING THERMAL ENVELOPE SHALL BE CONSTRUCTED TO LIMIT AIR LEAKAGE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS R402.4.1 THROUGH R402.4.4. WHERE REQUIRED BY THE CODE OFFICIAL, TESTING SHALL BE CONDUCTED BY AN APPROVED THIRD PARTY AND A WRITTEN REPORT OF THE TESTING RESULTS SHALL BE SIGNED BY THE TESTING PARTY

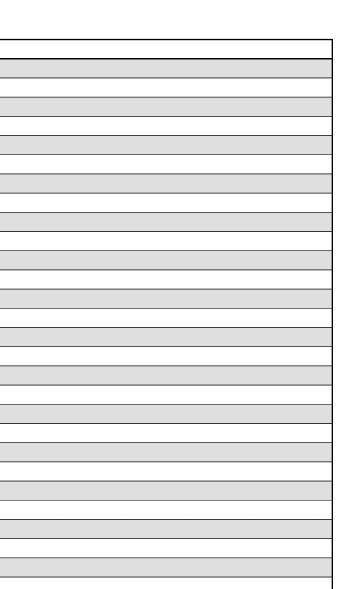
AND PROVIDED TO THE CODE OFFICIAL. 9. AT LEAST ONE THERMOSTAT PER DWELLING UNIT SHALL BE CAPABLE OF CONTROLLING THE HEATING AND COOLING SYSTEM ON A DAILY SCHEDULE.











#### Criteria

WIND

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE 2015 INTERNATIONAL BUILDING CODE

2. DESIGN LOAD CRITERIA FLOOR LIVE LOAD (RESIDENTIAL) FLOOR LIVE LOAD (RESIDENTIAL DECKS) SNOW

> EARTHQUAKE ANALYSIS PROCEDURE: LATERAL SYSTEM: BASE SHEAR (ALLOWABLE)

SITE CRITERIA

40 PSF 60 PSF Pf=25 PSF lw=1.0, GCpi=0.18, 110 MPH (ULTIMATE), EXPOSURE "B", KZT=1.84

EQUIVALENT LATERAL FORCE PROCEDURE LIGHT FRAMED SHEAR WALLS V=18.19 KIPS SITE CLASS=D, Ss=1.461, Sds=0.97, S1=0.56, SD1=0.56, Cs=0.107

SDC D, le=1.0, R=6.5

SEE PLANS FOR ADDITIONAL LOADING CRITERIA

- 3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- 4. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED.
- 5. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, REQUIRED TO PERFORM THE CONTRACTORS WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
- 7. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
- 8. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.
- 9. SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

CONNECTOR PLATE WOOD ROOF TRUSSES CONTRACTOR SHALL SUBMIT WALL ELEVATION DRAWINGS OF AT LEAST 1/8"=1'-0" SCALE INDICATING LOCATIONS OF CONNECTION EMBEDMENTS AND WALL OPENINGS FOR REVIEW PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH REINFORCEMENT SHOP DRAWINGS.

APPROVED SETS OF ALL SHOP DRAWINGS SHALL ALSO BE SUBMITTED TO THE BUILDING DEPARTMENT.

10. SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED WITHIN TWO WEEKS OF RECEIPT WITH A NOTATION INDICATING THAT THE SUBMITTAL HAS BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE SUBMITTED ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

#### Quality Assurance

- 1. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS 110 AND 1704 OF THE INTERNATIONAL BUILDING CODE BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT, AND RETAINED BY THE BUILDING OWNER. THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND TEST RESULTS. SPECIAL INSPECTION IS REQUIRED OF THE FOLLOWING TYPES OF CONSTRUCTION:
- EXPANSION BOLTS AND THREADED EXPANSION INSERTS PER MANUFACTURER PER MANUFACTURER EPOXY GROUTED INSTALLATIONS 2. UNLESS OTHERWISE NOTED, THE FOLLOWING ELEMENTS COMPRISE THE
- SEISMIC-FORCE-RESISTING SYSTEM AND ARE SUBJECT TO SPECIAL INSPECTION FOR SEISMIC RESISTANCE IN ACCORDANCE WITH SECTION 1705.12 OF THE INTERNATIONAL BUILDING CODE.
- A. STRUCTURAL WOOD SHEAR WALL SYSTEMS REQUIRE PERIODIC INSPECTION FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC FORCE RESISTING SYSTEM INCLUDING DRAG STRUTS, BRACES AND HOLDOWNS.

### Geotechnical

- 1. FOUNDATION NOTES: SUBGRA COMPACTION, AND FILLING **RECOMMENDATIONS GIVEN IN T** FOOTINGS SHALL BEAR ON SO ADJACENT FINISHED GRADE. DETAILS) ARE MINIMUM AND FC MUST BE ESTABLISHED BY THE C AND SOILS ENGINEER. BACKFII GRANULAR FILL AND PROVIDE FC ALLOWABLE SOIL PRESSURE
  - LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED) COEFICIENT OF FRICTION (FACTOR OF SAFETY OF 1.5 INCLUDED)
  - PILE CAPACITY (COMPRESSION/TENSION/LATERAL)
- FOUNDATIONS.

#### Concrete

- 1. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH IBC SECTION 1905, 1906 AND ACI 301, INCLUDING TESTING PROCEDURES. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF f'c=3,000 PSI AND MIX SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS. (STRUCTURAL DESIGN OF FOUNDATION IS BASED ON A f'c=2,500 PSI, PER IBC 1705.3.2.3, SPECIAL INSPECTION IS NOT REQUIRED.)
- 2. THE MINIMUM AMOUNTS OF CEMENT MAY BE CHANGED IF A CONCRETE PERFORMANCE MIX IS SUBMITTED TO THE STRUCTURAL ENGINEER AND THE BUILDING DEPARTMENT FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH IBC 1905.6. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE PAID BY THE GENERAL CONTRACTOR. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY TO THE CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.
- 3. ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER OR STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, AND C618. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH TABLE ACI 318 TABLE 4.2.1 MODERATE EXPOSURE.
- 4. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, fy=60,000 PSI. EXCEPTIONS: ANY BARS SPECIFICALLY SO NOTED ON THE DRAWINGS SHALL BE GRADE 40, fy=40,000 PSI. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. SPIRAL REINFORCEMENT SHALL BE PLAIN WIRE CONFORMING TO ASTM A615, GRADE 60, fy=60,000 PSL
- 5. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315-99 AND 318-14. LAP ALL REINFORCEMENTS IN ACCORDANCE WITH "THE REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE." PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS. NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.
- 6. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS: FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSEDTO EARTH FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#5 BARS OR SMALLER) SLABS AND WALLS (INT. FACE)
- 7. CONCRETE WALL REINFORCING PROVIDE THE FOLLOWING UNLESS DETAILED OTHERWISE: 6" WALLS #4 @ 16 HORIZ. #4 @ 18 VERTICAL 1 CURTAIN 8" WALLS #4 @ 12 HORIZ. #4 @ 18 VERTICAL 1 CURTAIN
- 8. CAST-IN-PLACE CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MISCELLANEOUS MECHANICAL OPENINGS THROUGH CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES, BOTH CAST-IN-PLACE AND PRECAST.
- 9. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3000 PSI MINIMUM).

#### Anchorage

- REQUIRED FOR ALL EXPANSION BOLT INSTALLATION.

## General Structural Notes

The Following Apply Unless Noted Otherwise on the Drawings

ADE PREPARATION INCLUDING DRAINAGE, EXCAVATION,
REQUIREMENTS, SHALL CONFORM STRICTLY WITH
THE SOILS REPORT OR AS DIRECTED BY THE SOILS ENGINEER.
OLID UNDISTURBED EARTH AT LEAST 18" BELOW LOWEST
FOOTING DEPTHS/ELEVATIONS SHOWN ONPLANS (OR IN
DR GUIDANCE ONLY; THE ACTUAL ELEVATIONS OF FOOTINGS
CONTRACTOR IN THE FIELD WORKING WITH THE TESTING LAB
ILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING
OR SUBSURFACE DRAINAGE AS NOTED IN THE SOILS REPORT.
2000 PSF

55 PCF/35 PCF

SOILS REPORT REFERENCE: PanGEO, Inc. Project #14-206, Dated 2/4/16

FOUNDATION DESIGN IS BASED ON THE INSTALLATION OF AGGREGATE PIERS IN ACCORDANCE WITH RECOMMENDATIONS OF GEOTECHNICAL ENGINEER. GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE ALL SOIL CONDITIONS PRIOR TO FORMING

0.3

#### 1-1/2" GREATER OF BAR DIAMETER

3"

PLUS 1/8" OR 3/4"

1. EXPANSION BOLTS INTO CONCRETE AND CONCRETE MASONRY UNITS SHALL BE "KWIK BOLT TZ" AS MANUFACTURED BY THE HILTI CORP., INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-1917, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. SUBSTITUTES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH ICC REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS

2. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "HIT RE 500-V3" AS MANUFACTURED BY HILTI CORP. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2322. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED.

### Steel

- 1. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON: A. EITHER AISC 360 AND SECTION 2205.2 OF THE INTERNATIONAL BUILDING CODE B. MARCH 18, 2005 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, AMENDED AS FOLLOWS.
  - AS NOTED IN THE CONTRACT DOCUMENTS.
  - ii) BY THE DELETION OF PARAGRAPH 4.4.1. iii) REVISE REFERENCE FROM "STRUCTURAL DESIGN DRAWINGS" TO "CONTRACT
  - DOCUMENTS" IN PARAGRAPH 3.1.
- 2. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
  - TYPE OF MEMBER ASTM SPECIFICATION 50 KSI WIDE FLANGE SHAPES A992 OTHER SHAPES, PLATES, AND RODS A36 36 KSI A325-N CONNECTION BOLTS
  - (3/4" ROUND, UNLESS SHOWN OTHERWISE)
- ALL A-325N CONNECTION BOLTS NEED ONLY BE TIGHTENED TO A SNUG TIGHT CONDITION, DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT. THIS MAY BE ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IRONWORKER USING AN ORDINARY SPUD WRENCH.
- 4. ALL WELDING SHALL BE IN CONFORMANCE WITH A.I.S.C. AND A.W.S. STANDARDS AND SHALL BE PERFORMED BY W.A.B.O. CERTIFIED WELDERS USING E70 XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY A.W.S.) SHALL BE USED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT -20 DEGREES F AND 40 FT-LBS AT 70 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

#### Wood

- 1. FRAMING LUMBER SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH W.C.L.B. STANDARD GRADING RULES FOR WEST COAST LUMBER NO.17. FURNISH TO THE FOLLOWING MINIMUM STANDARDS: JOISTS (2X & 3X MEMBERS) DOUGLAS FIR-LARCH NO. 2
- AND BEAMS: MINIMUM BASE VALUE, Fb=900 PSI (4X MEMBERS) DOUGLAS FIR-LARCH NO. 2 MINIMUM BASE VALUE, Fb=900 PSI BEAMS: (INCL. 6X AND LARGER) DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb=1350 PSI POSTS: (4X MEMBERS) DOUGLAS FIR-LARCH NO. 2 MINIMUM BASE VALUE, Fc=1350 PSI (6X AND LARGER) DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fc=1000 PSI

STUDS, PLATES & MISC. FRAMING:

- DOUGLAS-FIR-LARCH NO. 2
- 2. MANUFACTURED LUMBER, PSL, LVL, AND LSL, SHALL BE MANUFACTURED UNDER A PROCESS APPROVED BY THE NATIONAL RESEARCH BOARD. EACH PIECE SHALL BEAR A STAMP OR STAMPS NOTING THE NAME AND PLANT NUMBER OF THE MANUFACTURER, THE GRADE, THE NATIONAL RESEARCH BOARD NUMBER, AND THE QUALITY CONTROL AGENCY. ALL PSL, LVL, AND LSL LUMBER SHALL BE MANUFACTURED IN ACCORDANCE WITH ICC-ES REPORT ESR-1387 USING DOUGLAS FIR VENEER GLUED WITH A WATERPROOF ADHESIVE MEETING THE REOUIREMENTS OF ASTM D2559 WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBER. THE MEMBERS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
  - PSL (2.0E) Fb=2900 PSI, E=2000 KSI, Fv=290 PSI
  - LVL (1.9E) Fb=2600 PSI ,E=1900 KSI, Fv=285 PSI LSL (1.55E) Fb=2325 PSI ,E=1550 KSI, Fv=310 PSI

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

MANUFACTURED LUMBER PRODUCTS SHALL BE INSTALLED WITH A MOISTURE CONTENT OF 12% OR LESS. THE CONTRACTOR SHALL MAKE PROVISIONS DURING CONSTRUCTION TO PREVENT THE MOISTURE CONTENT OF INSTALLED BEAMS FROM EXCEEDING 12%. EXCESSIVE DEFLECTIONS MAY OCCUR IF MOISTURE CONTENT EXCEEDS THIS VALUE.

PREFABRICATED PLYWOOD WEB JOISTS SHALL BE DESIGNED BY THE MANUFACTURER FOR THE 3 SPANS AND CONDITIONS SHOWN ON THE PLANS AND SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S PUBLISHED SPECIFICATIONS. ALL NECESSARY BRIDGING, BLOCKING, BLOCKING PANELS, STIFFENERS, ETC., SHALL BE DETAILED AND FURNISHED BY THE MANUFACTURER. SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. DESIGN SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF A REGISTERED PROFESSIONAL ENGINEER, STATE OF WASHINGTON. PERMANENT AND TEMPORARY BRIDGING SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS.

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

PREFABRICATED CONNECTOR PLATE WOOD ROOF TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE "NATIONAL DESIGN STANDARD FOR METAL PLATE-CONNECTED WOOD TRUSS CONSTRUCTION, ANSI/TPI 1" BY THE TRUSS PLATE INSTITUTE FOR THE SPANS AND CONDITIONS SHOWN ON THE PLANS. LOADING SHALL BE AS FOLLOWS:

TOP CHORD LIVE LOAD	25 PSF
TOP CHORD DEAD LOAD	10 PSF
BOTTOM CHORD DEAD LOAD	5 PSF
TOTAL LOAD	40 PSF
WIND UPLIFT (TOP CHORD)	5 PSF
BOTTOM CHORD LIVE LOAD	10 PSF
(BOTTOM CHORD LIVE LOAD DOES NO	TACT CONCURENTLY WITH THE ROOF LIVE LOAD)

WOOD TRUSSES SHALL UTILIZE APPROVED CONNECTOR PLATES (GANGNAIL OR EQUAL). SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION. SUBMITTED DOCUMENTS SHALL BE SIGNED AND STAMPED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON. PROVIDE FOR SHAPES, BEARING POINTS, INTERSECTIONS, HIPS, VALLEYS, ETC., SHOWN ON THE DRAWINGS. THE EXACT COMPOSITION OF SPECIAL HIP, VALLEY, AND INTERSECTION AREAS (USE OF GIRDER TRUSSES, IACK TRUSSES, STEP-DOWN TRUSSES, ETC.) SHALL BE DETERMINED BY THE MANUFACTURER UNLESS SPECIFICALLY INDICATED ON THE PLANS. PROVIDE ALL TRUSS TO TRUSS AND TRUSS TO GIRDER TRUSS CONNECTION DETAILS AND REQUIRED CONNECTION MATERIALS. PROVIDE FOR ALL TEMPORARY AND PERMANENT TRUSS BRACING AND BRIDGING.

### Wood (Con't)

8.

PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, EXTERIOR GLUE IN CONFORMANCE WITH DOC PS 1. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND PANEL INDEX MAY BE USED IN LIEU OF PLYWOOD.

- A. ROOF SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 32/16 B. FLOOR SHEATHING SHALL BE 3/4" (NOMINAL) WITH SPAN RATING 48/24.
- C. WALL SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 24/0.

D. REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REQUIREMENTS.

ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY.

7. PRESSURE TREATED WOOD SHALL BE TREATED PER AWPA STANDARD. PRESSURE TREATED WOOD FOR ABOVE GROUND USE SHALL BE TREATED TO A RENTION OF 0.25 PCF. WOOD IN CONTINUOUS CONTACT WITH FRESH WATER OR SOIL SHALL BE TREATED TO A RETENTION OF 0.40 PCF. WOOD FOR USE IN PERMANENT FOUNDATIONS SHALL BE TREATED TO A RETENTION OF 0.60 PCF. SODIUM BORATE (SBX) TREATED WOOD SHALL NOT BE USED WHERE EXPOSED TO WEATHER, FASTENERS AND TIMBER CONNECTORS IN DIRECT CONTACT WITH ACO-A. CBA-A, CA-B, OR SBX TREATED WOOD SHALL BE G185 OR A185 HOT DIPPED OR CONTINUOUS HOT-GALVANIZED PER ASTM A653. FASTENERS AND TIMBER CONNECTORS IN DIRECT CONTACT WITH ACZA TREATED WOOD SHALL BE TYPE 304 OR 316 STAINLESS STEEL.

TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-C-2015. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

ALL 2X JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "LUS" SERIES JOIST HANGERS. ALL TII JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "ITT" SERIES JOIST HANGERS. ALL DOUBLE-JOIST BEAMS SHALL BE CONNECTED TO FLUSH BEAMS WITH "MIT" SERIES JOIST HANGERS.

WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER.

ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED. WOOD FASTENERS

A. NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS: 

	SIZE	LENGIH	DIAMETER
	8d	2-1/2"	0.131"
	10d	3"	0.148"
	16d BOX	3-1/2"	0.135"
IE			

IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL

NAILS - PLYWOOD (APA RATED SHEATHING) FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED. B. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG BOLTS BEARING ON WOOD.

INSTALLATION OF LAG BOLTS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (2005 EDITION) WITH A LEAD BORE HOLE OF 60 TO 70 PERCENT OF THE SHANK DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER LAG SCREWS. 10. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE

PLANS: A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE. MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO TABLE 2304.10.1. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS

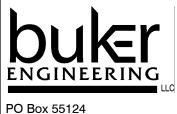
B. WALL FRAMING: REFER ARCHITECTURAL DRAWINGS FOR THE SIZE OF ALL WALLS. ALL STUDS SHALL BE SPACED AT 16" O.C. UNO. TWO STUDS MINIMUM SHALL BE PROVIDED AT THE END OF ALL WALLS AND AT EACH SIDE OF ALL OPENINGS, AND AT BEAM OR HEADER BEARING LOCATIONS. TWO 2x8 HEADERS SHALL BE PROVIDED OVER ALL OPENINGS NOT OTHERWISE NOTED. SOLID BLOCKING FOR WOOD COLUMNS SHALL BE PROVIDED THROUGH FLOORS TO SUPPORTS BELOW. PROVIDE CONTINUOUS SOLID BLOCKING AT MID-HEIGHT OF ALL STUD WALLS OVER 10'-0" IN HEIGHT.

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

ALL STUD WALLS SHALL HAVE THEIR LOWER WOOD PLATES ATTACHED TO WOOD FRAMING BELOW WITH TWO ROWS OF 16d NAILS @ 12" ON-CENTER, OR ATTACHED TO CONCRETE BELOW WITH 5/8" DIAMETER ANCHOR BOLTS @ 4'-0" ON-CENTER EMBEDDED 7" MINIMUM, UNLESS INDICATED OTHERWISE. INDIVIDUAL MEMBERS OF BUILT-UP POSTS SHALL BE NAILED TO EACH OTHER WITH TWO ROWS OF 16d @12" ON-CENTER. UNLESS OTHERWISE NOTED, GYPSUM WALLBOARD SHALL BE FASTENED TO THE INTERIOR SURFACE OF ALL STUDS AND PLATES WITH NO. 6 X 1-1/4" TYPE S OR W SCREWS @ 8" ON-CENTER. UNLESS INDICATED OTHERWISE, 1/2" (NOMINAL) APA RATED SHEATHING (SPAN RATING 24/0) SHALL BE NAILED TO ALL EXTERIOR SURFACES WITH 8d NAILS @ 6" ON-CENTER AT PANEL EDGES AND TOP AND BOTTOM PLATES (BLOCK UN-SUPPORTED EDGES) AND TO ALL INTERMEDIATE STUDS AND BLOCKING WITH 8d NAILS @ 12" ON-CENTER ALLOW 1/8" SPACING AT ALL PANEL EDGES AND PANEL ENDS.

C. FLOOR AND ROOF FRAMING: PROVIDE DOUBLE JOISTS UNDER ALL PARALLEL PARTITIONS THAT EXTEND OVER MORE THAN HALF THE JOIST LENGTH AND AROUND ALL OPENINGS IN FLOORS OR ROOFS UNLESS OTHERWISE NOTED. PROVIDE SOLID BLOCKING AT ALL BEARING POINTS. TOENAIL JOISTS TO SUPPORTS WITH TWO 16d NAILS. ATTACH TIMBER JOISTS TO FLUSH HEADERS OR BEAMS WITH SIMPSON METAL JOIST HANGERS IN ACCORDANCE WITH NOTES ABOVE. NAIL ALL MULTI-JOIST BEAMS TOGETHER WITH TWO ROWS 16d @ 12" ON-CENTER.

UNLESS OTHERWISE NOTED ON THE PLANS, PLYWOOD ROOF AND FLOOR SHEATHING SHALL BE LAID UP WITH GRAIN PERPENDICULAR TO SUPPORTS AND NAILED AT 6" ON-CENTER WITH 8d NAILS TO FRAMED PANEL EDGES, STRUTS AND OVER STUD WALLS AS SHOWN ON PLANS AND @ 12" ON-CENTER TO INTERMEDIATE SUPPORTS. PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING. TOENAIL BLOCKING TO SUPPORTS WITH 16d @ 12" ON-CENTER UNLESS OTHERWISE NOTED.



Seattle, WA 98155



Φ C g Ω C  $\mathbf{O}$ C  $\geq$ S

σ

Ш

No. Date Issue

Sheet Contents

Sheet No.

7/13/17 Permit

1 3/12/18 Corrections

 $2 \ 6/13/18$  Corrections

General Structural Notes

Way , 980

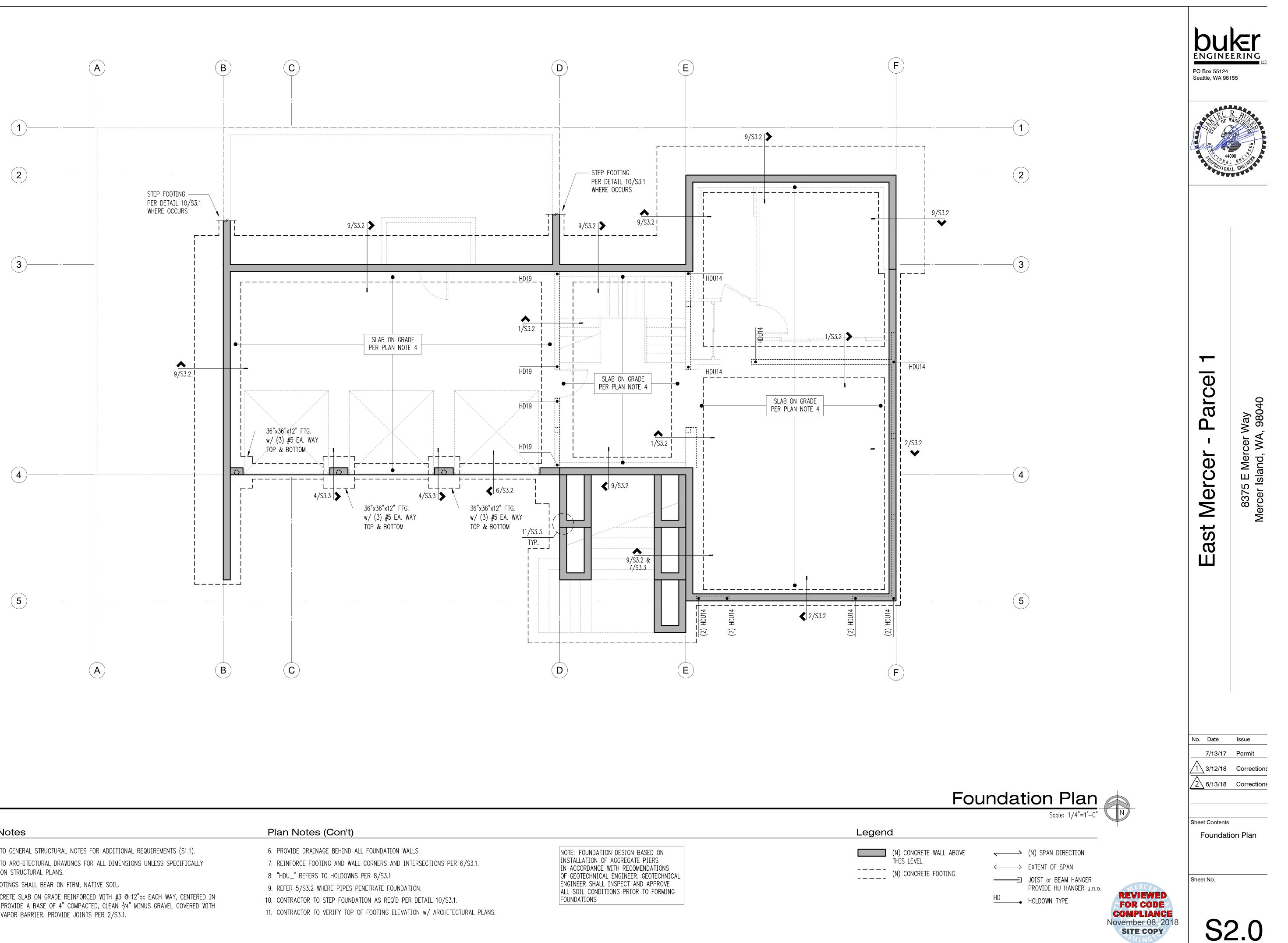
WA

Ш 👸

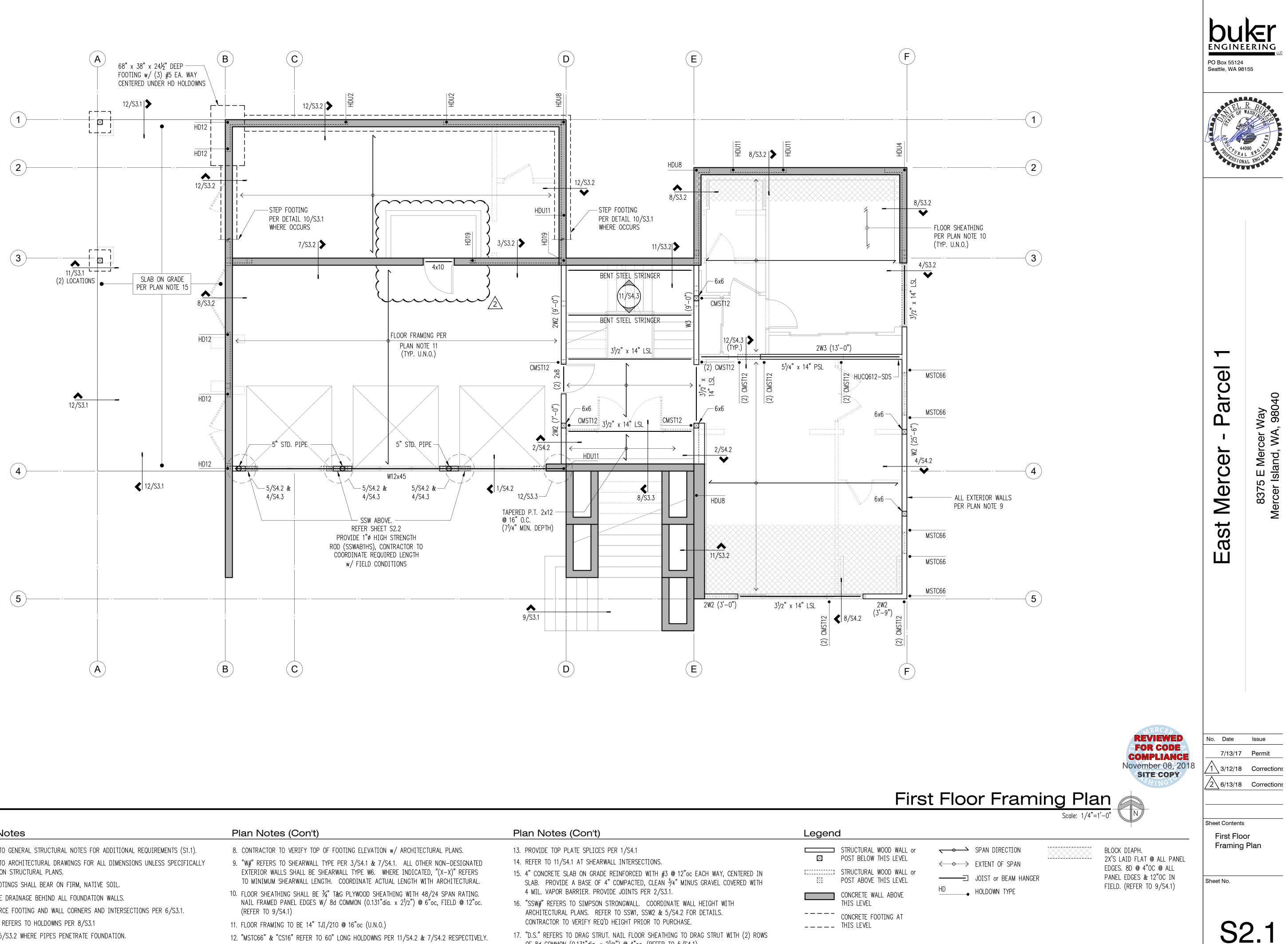
ω

Ind

MERCED
REVIEWED
FOR CODE
COMPLIANCE
ovember 08, 2018
SITE COPY
ASHINGTO



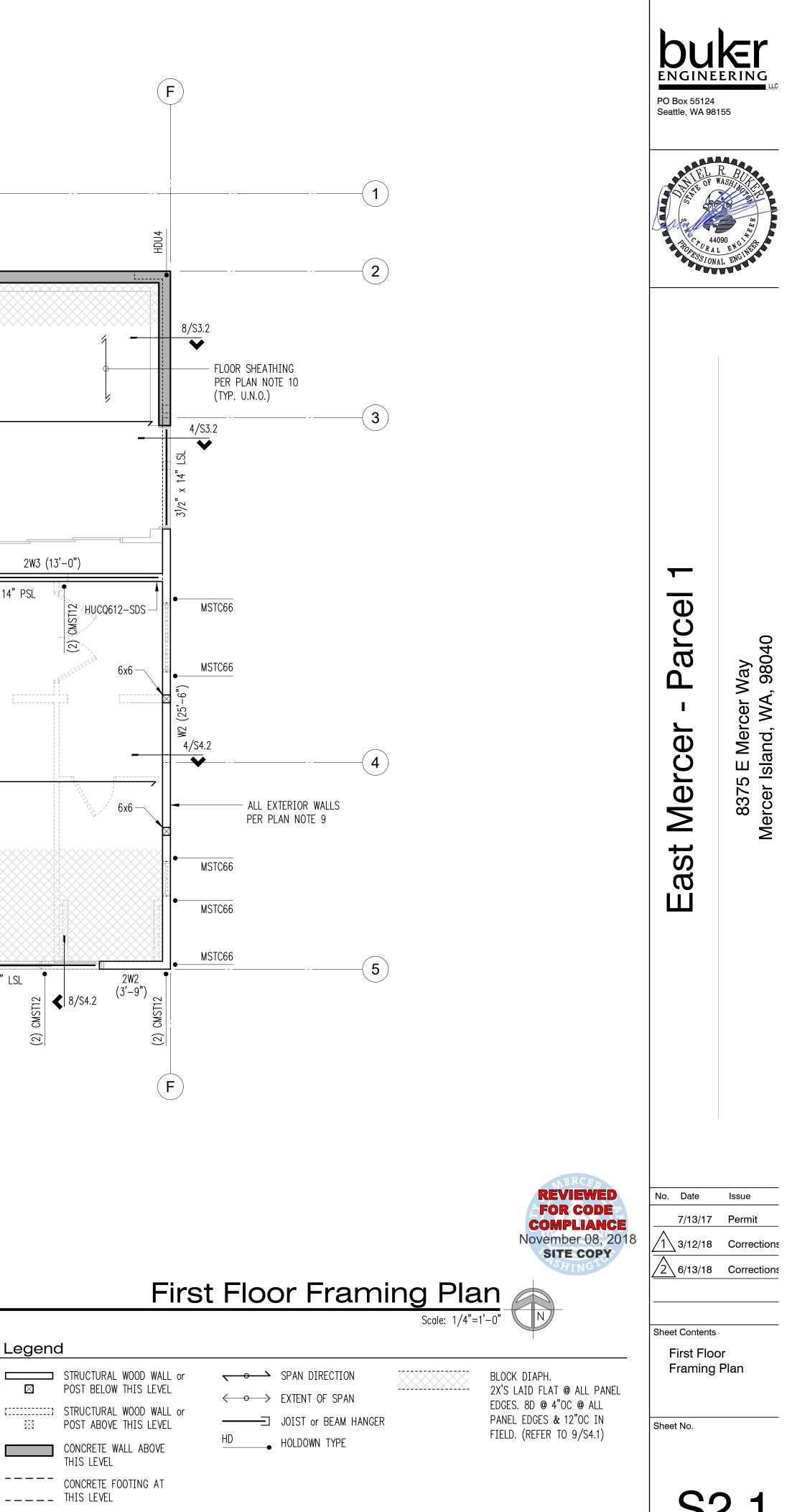
- 1. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS (S1.1).
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS UNLESS SPECIFICALLY NOTED ON STRUCTURAL PLANS.
- 3. ALL FOOTINGS SHALL BEAR ON FIRM, NATIVE SOIL.
- 4. 4" CONCRETE SLAB ON GRADE REINFORCED WITH #3 @ 12"oc EACH WAY, CENTERED IN SLAB. PROVIDE A BASE OF 4" COMPACTED, CLEAN <sup>3</sup>/4" MINUS GRAVEL COVERED WITH 4 MIL. VAPOR BARRIER. PROVIDE JOINTS PER 2/S3.1.

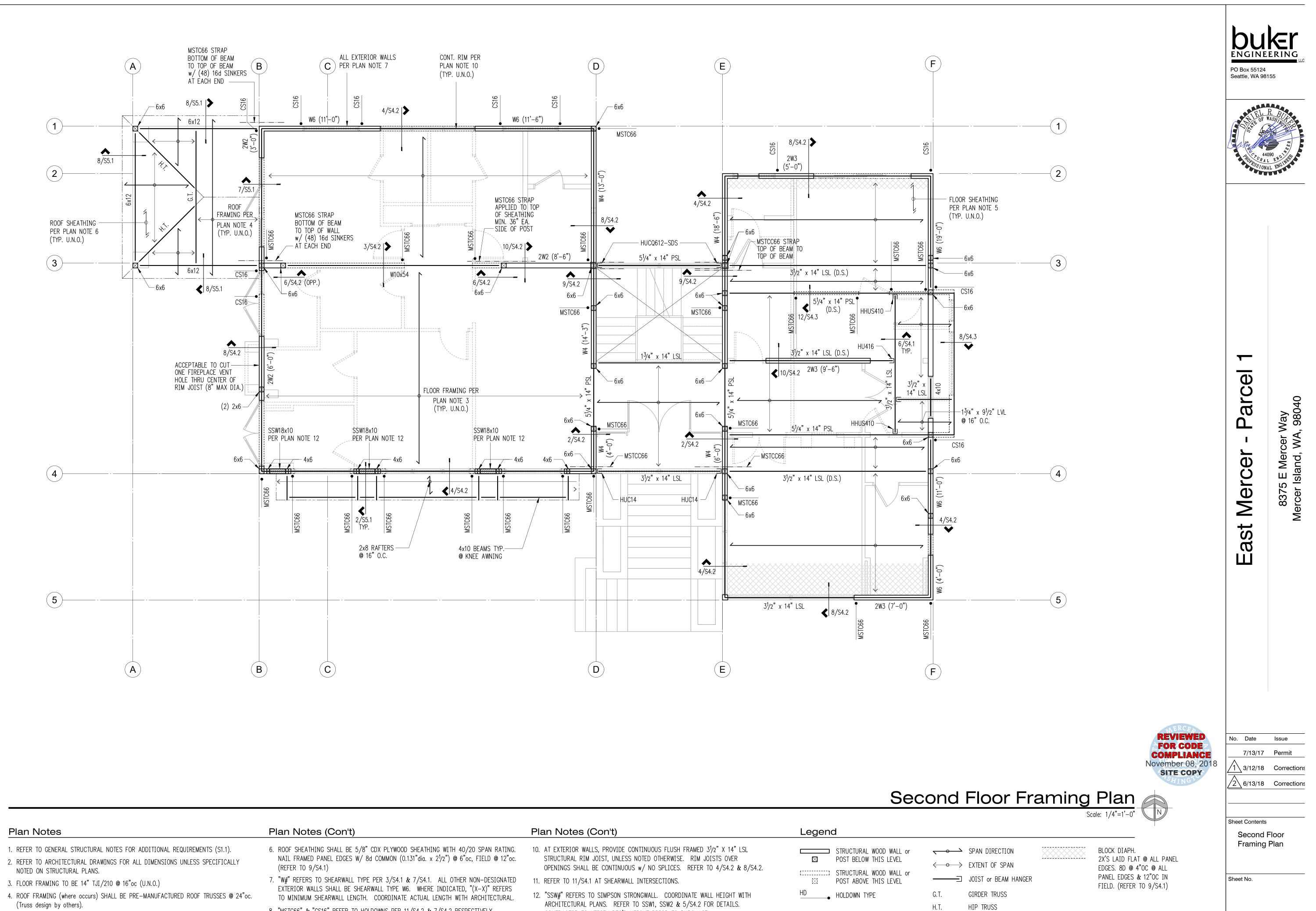


- 1. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS (S1.1).
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS UNLESS SPECIFICALLY NOTED ON STRUCTURAL PLANS.
- 3. ALL FOOTINGS SHALL BEAR ON FIRM, NATIVE SOIL.
- 4. PROVIDE DRAINAGE BEHIND ALL FOUNDATION WALLS.
- 5. REINFORCE FOOTING AND WALL CORNERS AND INTERSECTIONS PER 6/S3.1.
- 6. "HDU\_" REFERS TO HOLDOWNS PER 8/S3.1
- 7. REFER 5/S3.2 WHERE PIPES PENETRATE FOUNDATION.

- 12. "MSTC66" & "CS16" REFER TO 60" LONG HOLDOWNS PER 11/S4.2 & 7/S4.2 RESPECTIVELY.

- 17. "D.S." REFERS TO DRAG STRUT. NAIL FLOOR SHEATHING TO DRAG STRUT WITH (2) ROWS OF 8d COMMON (0.131"dia. x 2<sup>1</sup>/2") @ 4"oc. (REFER TO 5/S4.1)





- 1. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS (S1.1).

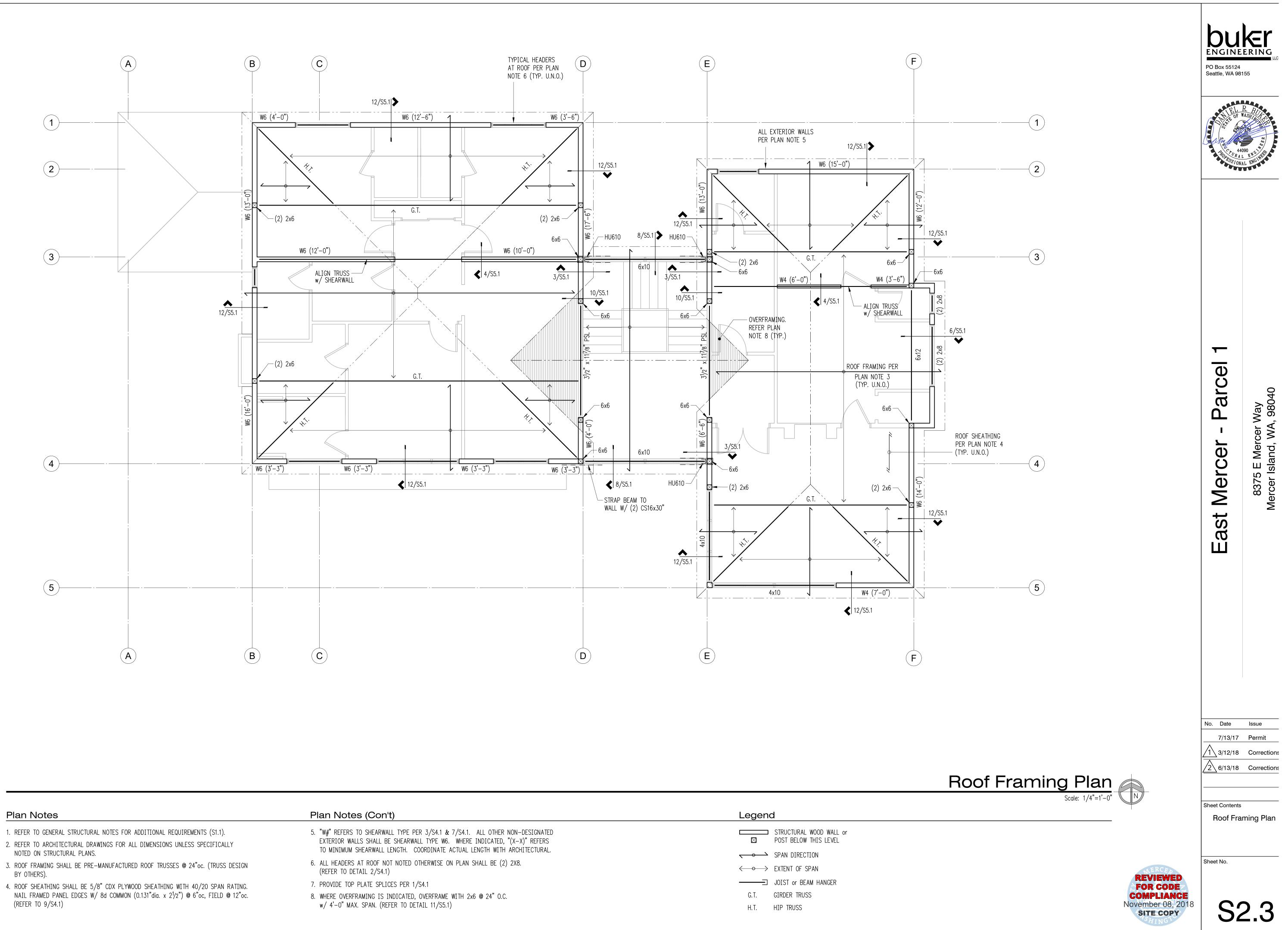
- (Truss design by others).
- 5. FLOOR SHEATHING SHALL BE  $\frac{3}{4}$ " T&G PLYWOOD SHEATHING WITH 48/24 SPAN RATING. NAIL FRAMED PANEL EDGES W/ 8d COMMON (0.131"dia. x 21/2") @ 6"oc, FIELD @ 12"oc. (REFER TO 9/S4.1)

- 8. "MSTC66" & "CS16" REFER TO HOLDOWNS PER 11/S4.2 & 7/S4.2 RESPECTIVELY. 9. PROVIDE TOP PLATE SPLICES PER 1/S4.1

Plan	Notes	(Con't)
------	-------	---------

- CONTRACTOR TO VERIFY REQ'D HEIGHT PRIOR TO PURCHASE.
- 13. "D.S." REFERS TO DRAG STRUT. NAIL FLOOR SHEATHING TO DRAG STRUT WITH (2) ROWS OF 8d COMMON (0.131"dia. x 2<sup>1</sup>/2") @ 4"oc. (REFER TO 5/S4.1)

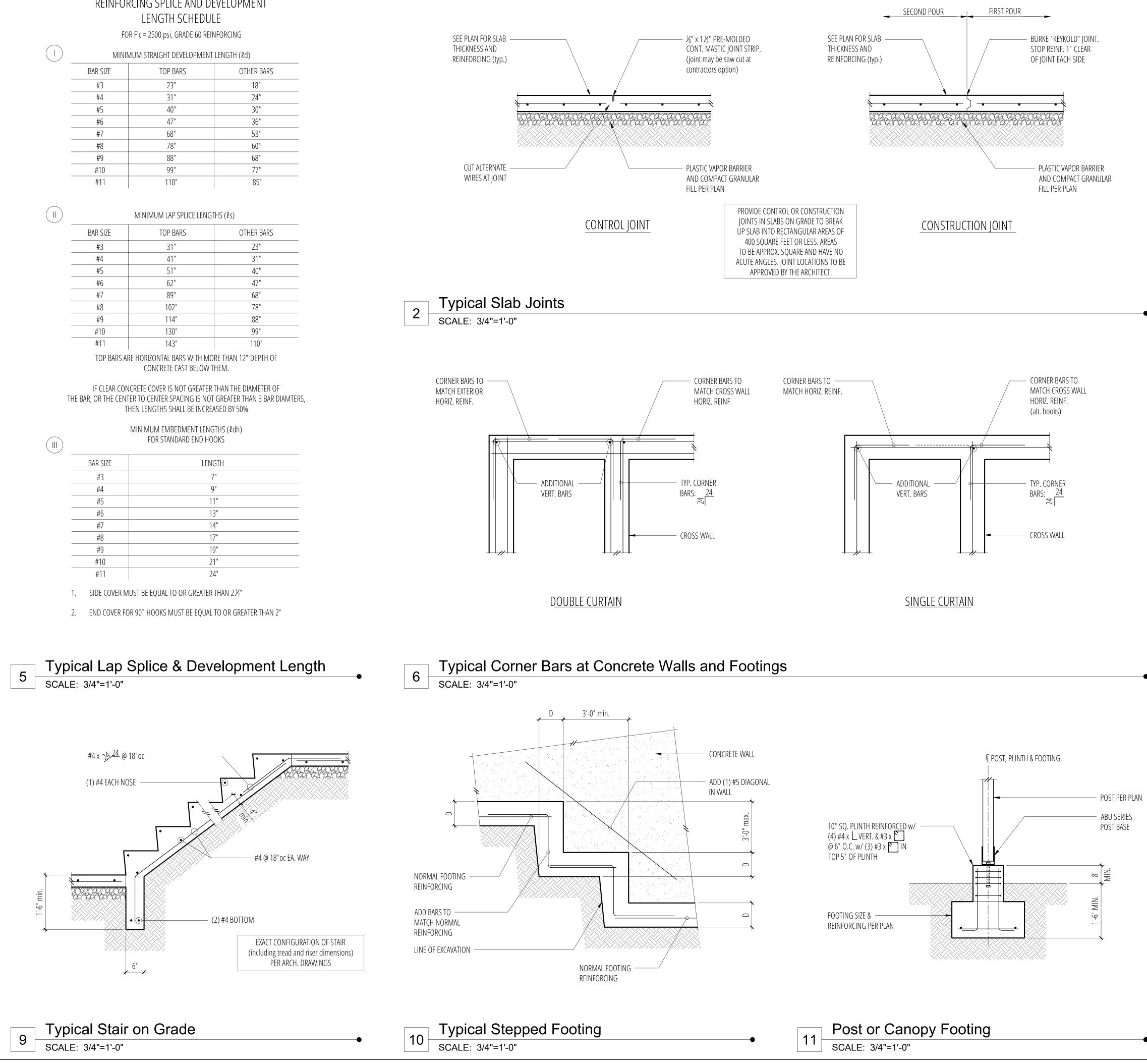
S2.2

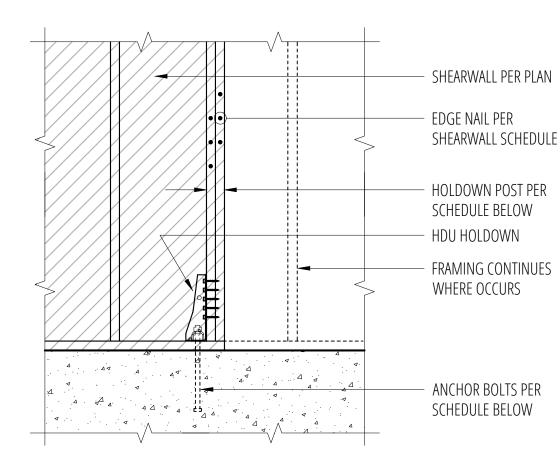


- 1. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS (S1.1).
- 2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS UNLESS SPECIFICALLY NOTED ON STRUCTURAL PLANS.
- 3. ROOF FRAMING SHALL BE PRE-MANUFACTURED ROOF TRUSSES @ 24"oc. (TRUSS DESIGN BY OTHERS).
- NAIL FRAMED PANEL EDGES W/ 8d COMMON (0.131"dia. x 21/2") @ 6"oc, FIELD @ 12"oc. (REFER TO 9/S4.1)

Notes (Con't)	Legend
	Legend
"REFERS TO SHEARWALL TYPE PER 3/S4.1 & 7/S4.1. ALL OTHER NON-DESIGNATED ERIOR WALLS SHALL BE SHEARWALL TYPE W6. WHERE INDICATED, "(X-X)"REFERS	STRUCTURAL WOOD WALL or POST BELOW THIS LEVEL
MINIMUM SHEARWALL LENGTH. COORDINATE ACTUAL LENGTH WITH ARCHITECTURAL.	SPAN DIRECTION
HEADERS AT ROOF NOT NOTED OTHERWISE ON PLAN SHALL BE (2) 2X8. FER TO DETAIL 2/S4.1)	$\leftrightarrow \rightarrow$ EXTENT OF SPAN
VIDE TOP PLATE SPLICES PER 1/S4.1	JOIST or BEAM HANGER
RE OVERFRAMING IS INDICATED, OVERFRAME WITH 2x6 @ 24" O.C.	G.T. GIRDER TRUSS
4'-0" MAX. SPAN. (REFER TO DETAIL 11/S5.1)	H.T. HIP TRUSS





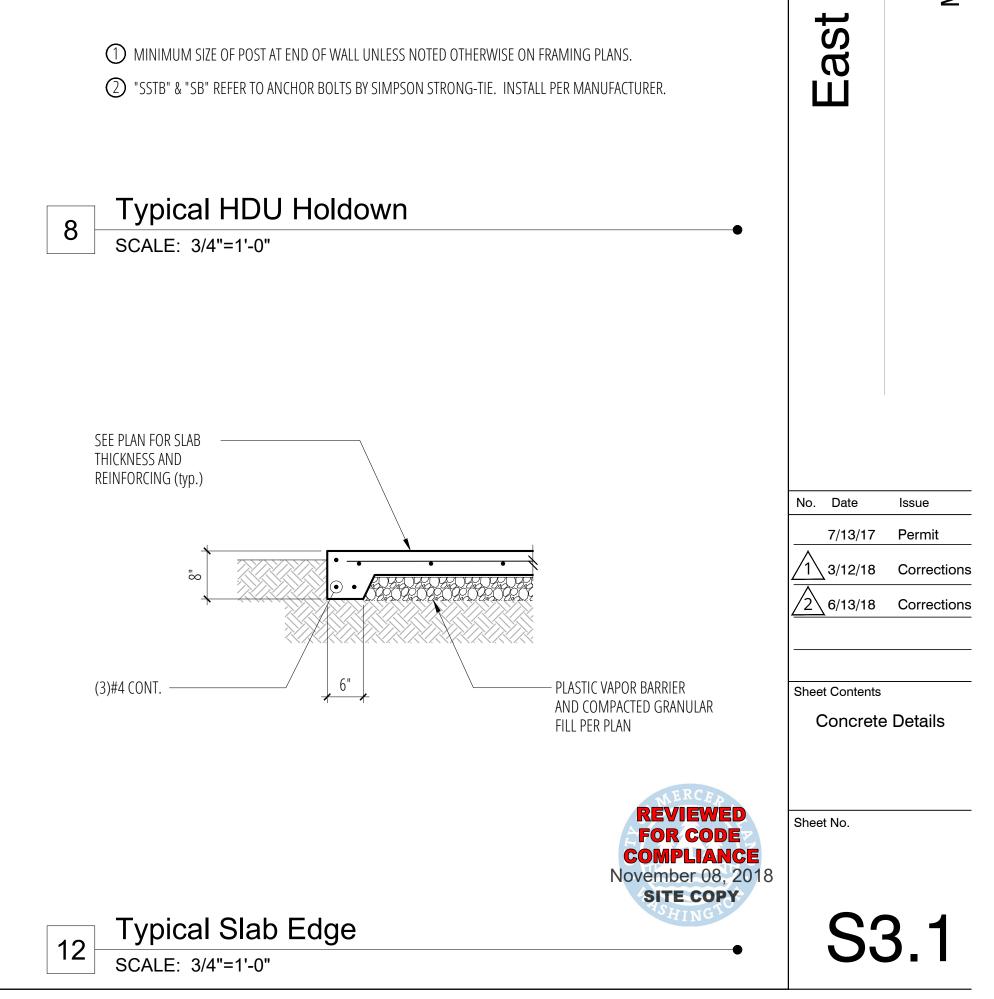


### Holdown Schedule

Plan	Screws	Anchor Bolt ②	A.B. Embed	Holdown Post 🛈		Capacity
Mark				IF 2x4	IF 2x6	<b>#</b>
HDU2-SDS2.5	(6) SDS ¼" x 2 ½"	SSTB16	12 5⁄8"	(2) 2x4	4хб	2215/3075
HDU4-SDS2.5	(10) SDS 1⁄4" x 2 1⁄2"	SB ⅔ x 24	18"	4x4	4хб	4565
HDU5-SDS2.5	(14) SDS ¼" x 2 ½"	SB ⅔ x 24	18"	4x4	4x6	5645
HDU8-SDS2.5	(20) SDS 1⁄4" x 2 1⁄2"	SB ⅔ x 24	18"	4x4	4x6	6970
HDU11-SDS2.5	(30) SDS 1⁄4" x 2 1⁄2"	SB 1 x 30	24"	4x8	6x6	9535
HDU14-SDS2.5	(36) SDS ¼" x 2 ½"	SB 1⅓ x 30	30"	N/A	6x6	10770
HD12	(4) 1"ø THRU BOLTS	PAB9H	18½"	N/A	6x6	21620+
HD19	(5) 1"ø THRU BOLTS	PAB10H	21"	N/A	6x6	26690+

① MINIMUM SIZE OF POST AT END OF WALL UNLESS NOTED OTHERWISE ON FRAMING PLANS.

② "SSTB" & "SB" REFER TO ANCHOR BOLTS BY SIMPSON STRONG-TIE. INSTALL PER MANUFACTURER.





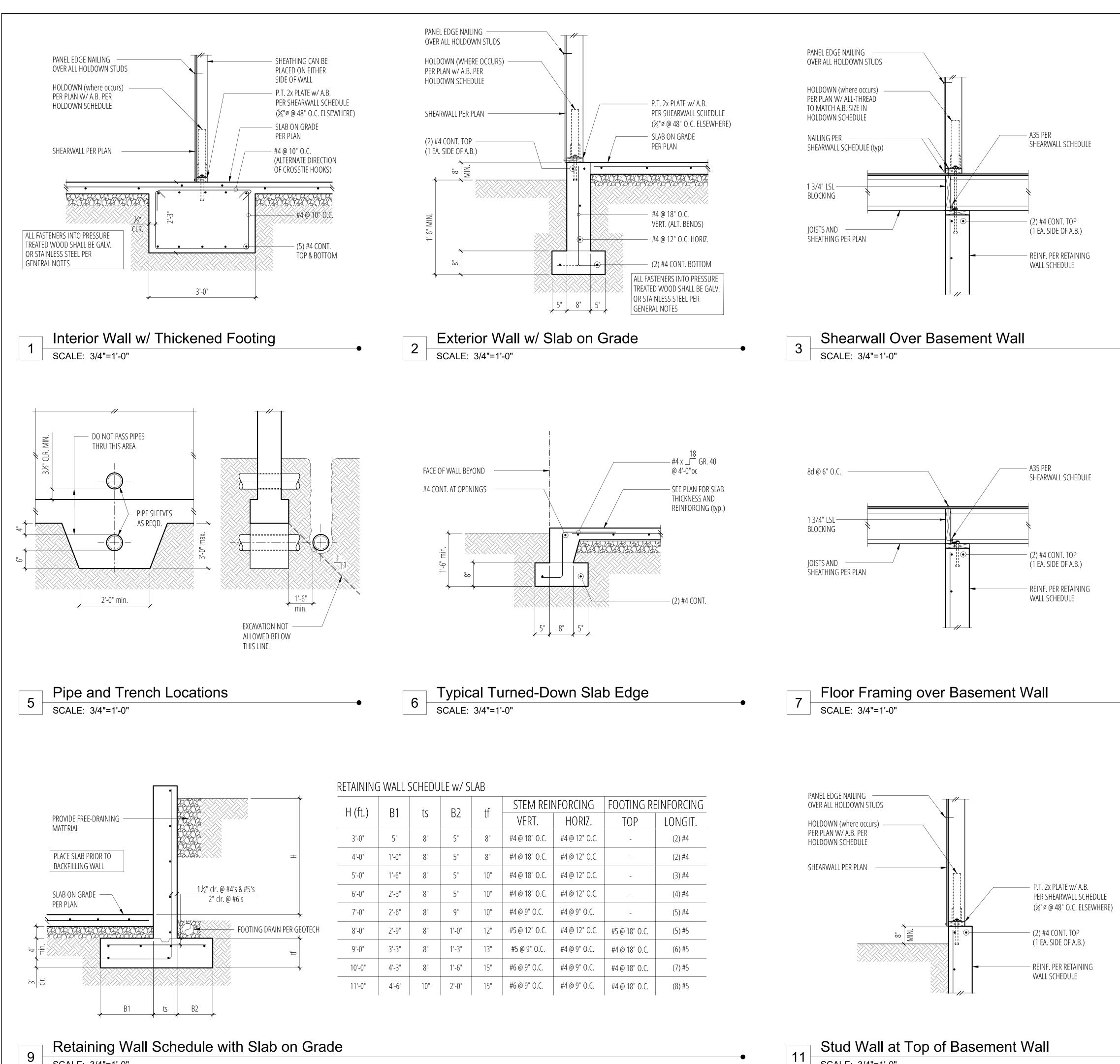


Way \, 98040 cer V WA, 5 E Mero Island, S 375 :er 83 Merc

Parcel

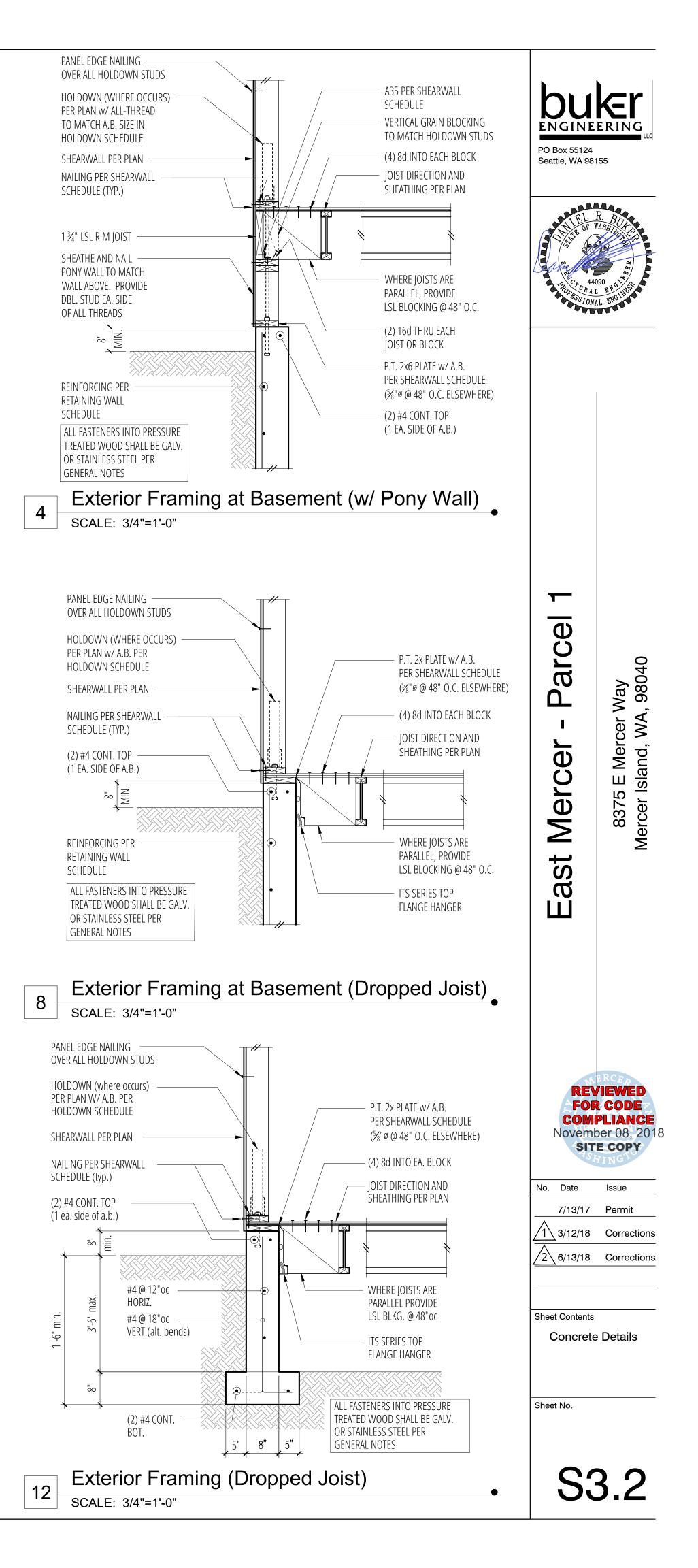
ercer

Σ



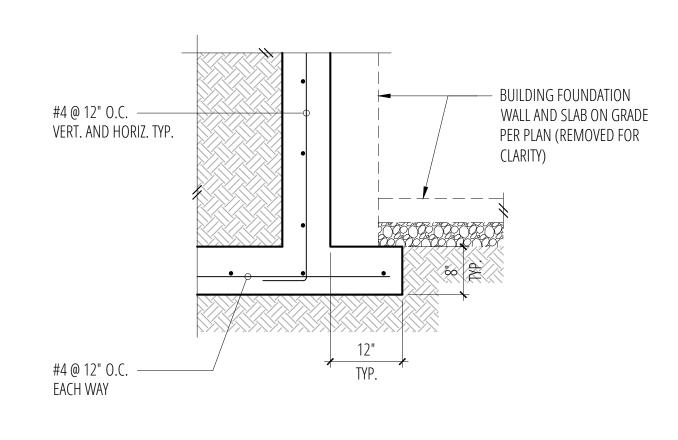
SCALE: 3/4"=1'-0"

11 SCALE: 3/4"=1'-0"



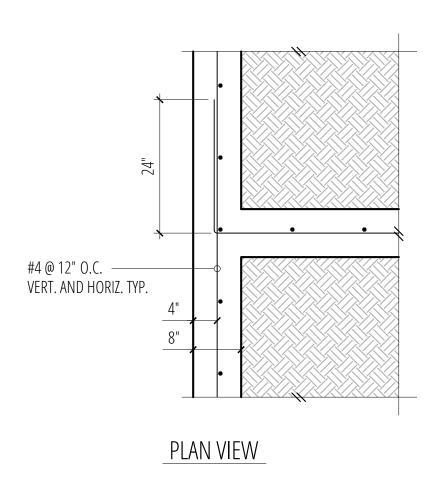
1 SCALE: 3/4*=1-0* 2 SCALE: 3/4*=1-0* 5 SCALE: 3/4*=1-0* 6 SCALE: 3/4*=1-0*		
5 SCALE: 3/4"=1'-0" 6 SCALE: 3/4"=1'-0"	1 SCALE: 3/4"=1'-0" 2 SCALE: 3/4"=1'-0	)"
	5 SCALE: 3/4"=1'-0"	)"

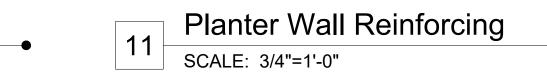
# 3 SCALE: 3/4"=1'-0"

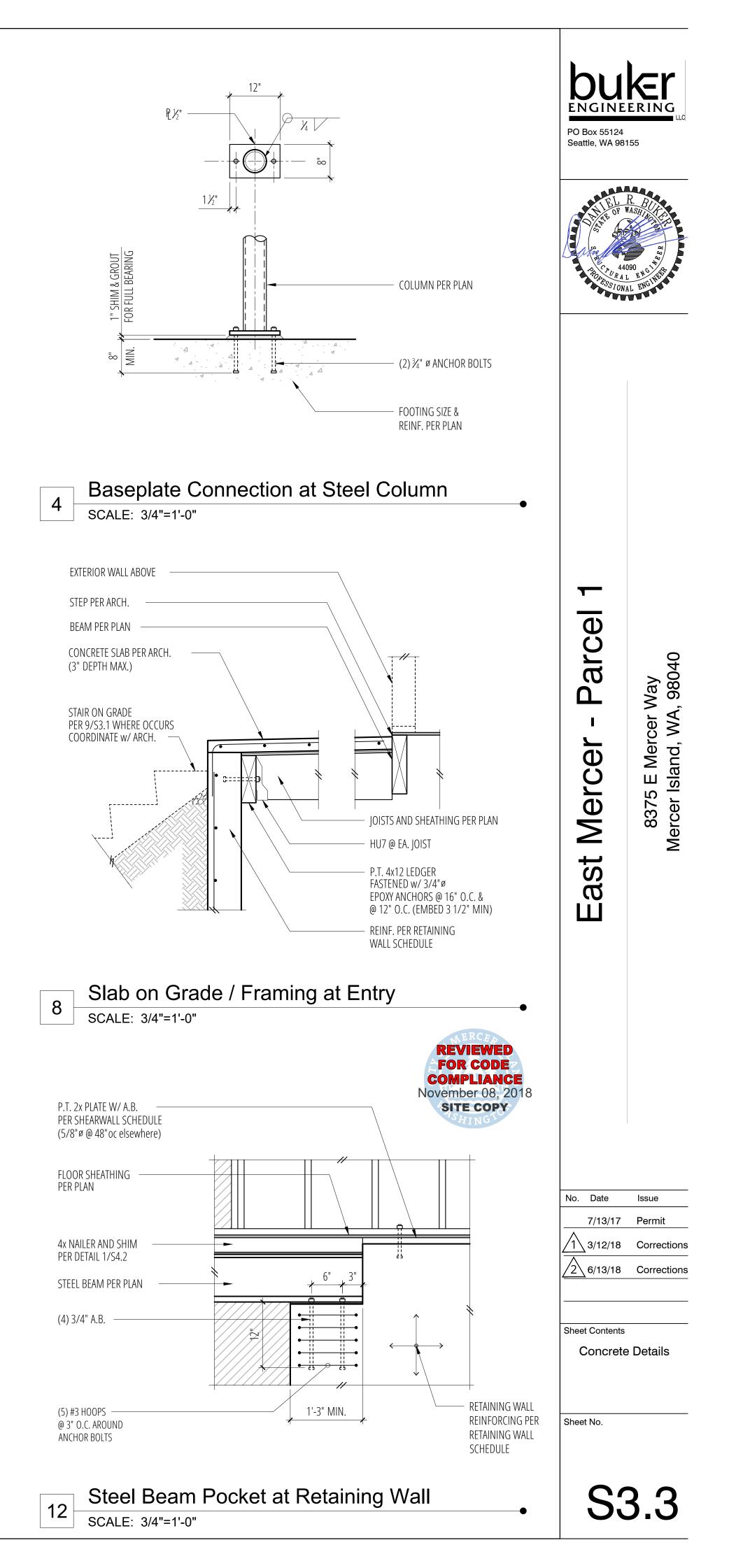


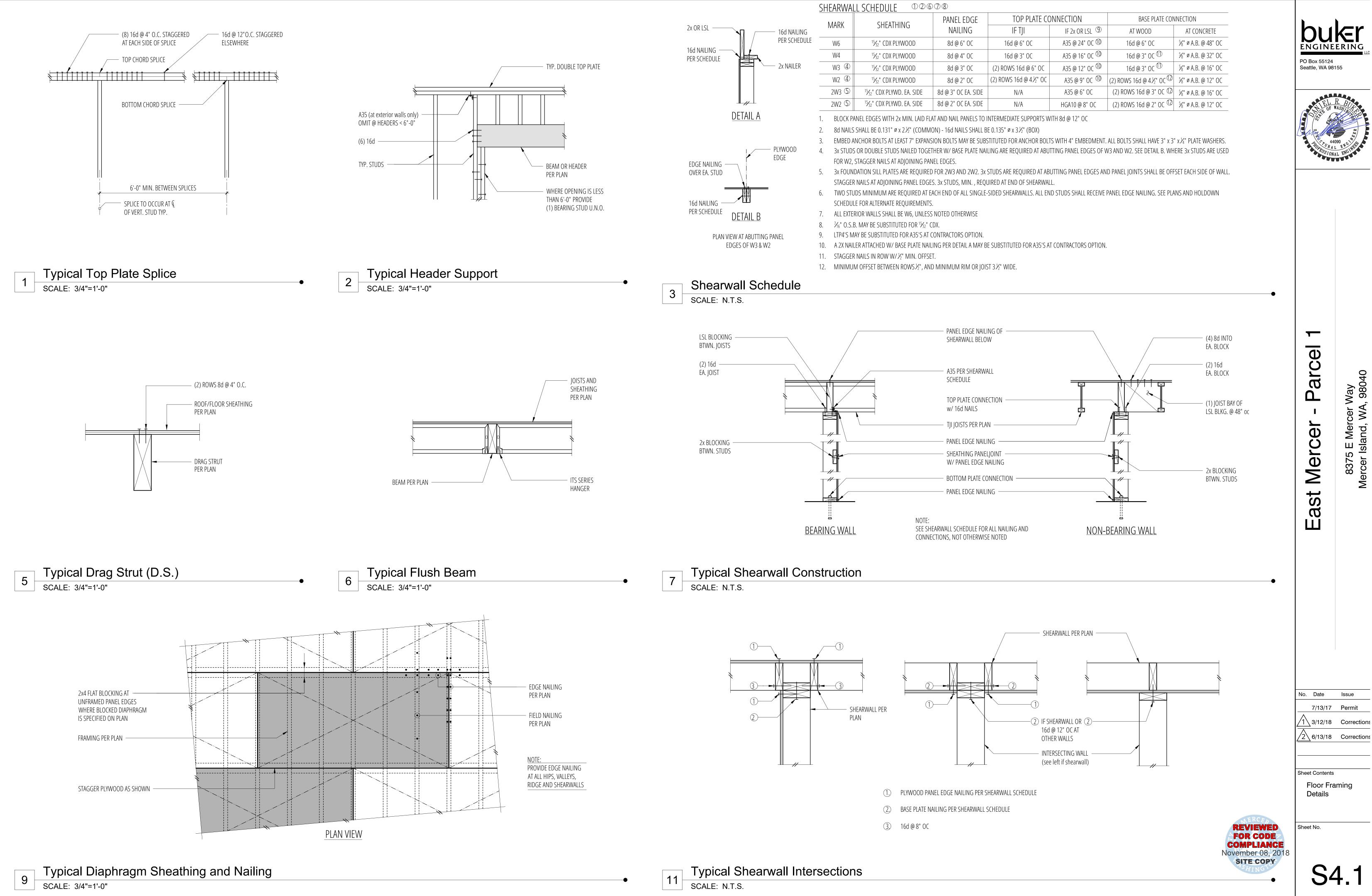


# Planter Wall Footing and Reinforcing

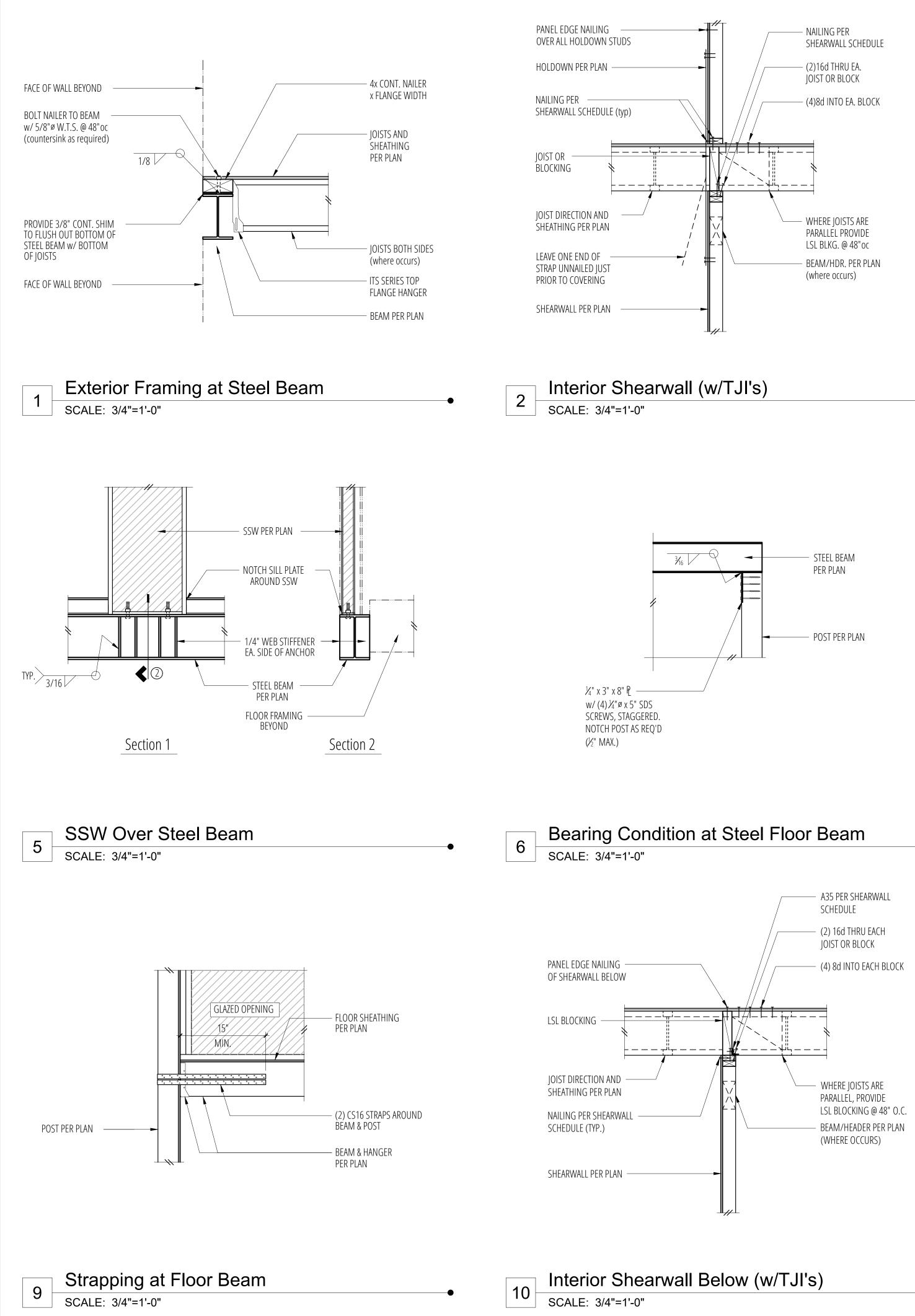


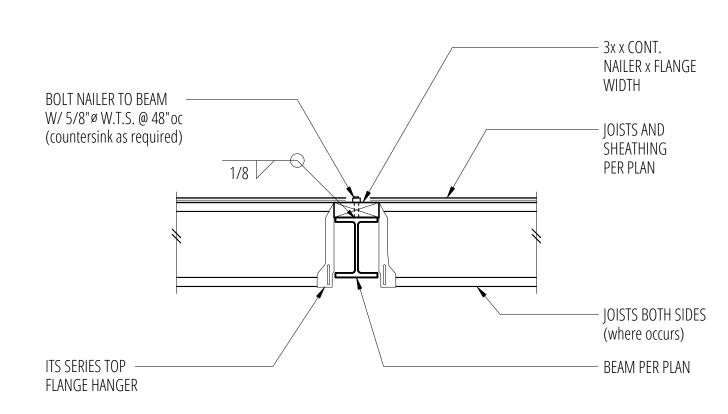




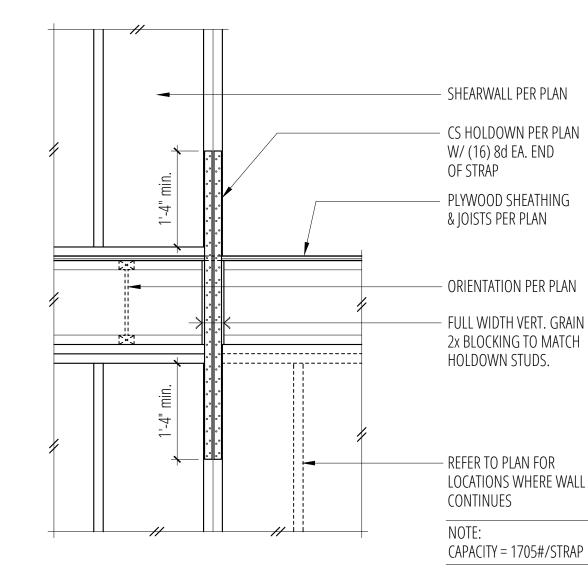


EL EDGE	TOP PLATE CO	ONNECTION	BASE PLATE CONNECTION		
AILING	IF TJI	IF 2x OR LSL (9)	AT WOOD	AT CONCRETE	
@ 6" OC	16d @ 6" OC	A35 @ 24" OC 🛈	16d @ 6" OC	5∕8" ø A.B. @ 48" OC	
@ 4" OC	16d @ 3" OC	A35 @ 16" OC 🔟	16d @ 3" OC 🛈	5∕8" ø A.B. @ 32" OC	
@ 3" OC	(2) ROWS 16d @ 6" OC	A35 @ 12" OC 🔟	16d @ 3" OC <sup>①</sup>	%" ø A.B. @ 16" OC	
@ 2" OC	(2) ROWS 16d @ 4½" OC	A35 @ 9" OC 🕕	(2) ROWS 16d @ 4½" OC <sup>ℚ</sup>	%" ø A.B. @ 12" OC	
oc ea. side	N/A	A35 @ 6" OC	(2) ROWS 16d @ 3" OC 🛈	5∕8" ø A.B. @ 16" OC	
OC EA. SIDE	N/A	HGA10 @ 8" OC	(2) ROWS 16d @ 2" OC 🗘	5⁄8" ø A.B. @ 12" OC	

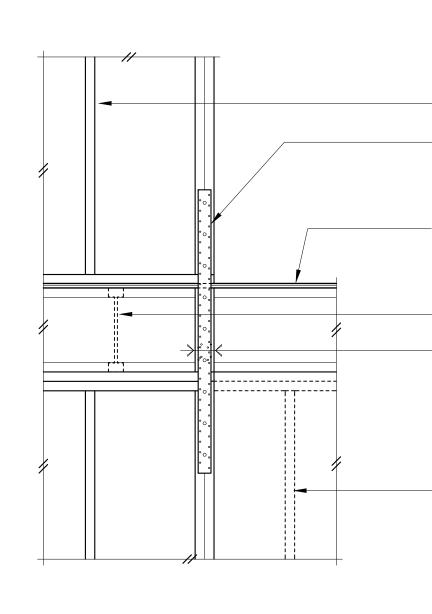








Typical CS16 Holdown Strap <sub>|</sub> 7 | SCALE: 3/4"=1'-0"



SHEARWALL PER PLAN

STRAP PER PLAN W/ EQUAL NO. OF SPECIFIED NAILS INTO STUDS ABOVE AND BELOW PLYWOOD SHEATHING & JOISTS PER PLAN

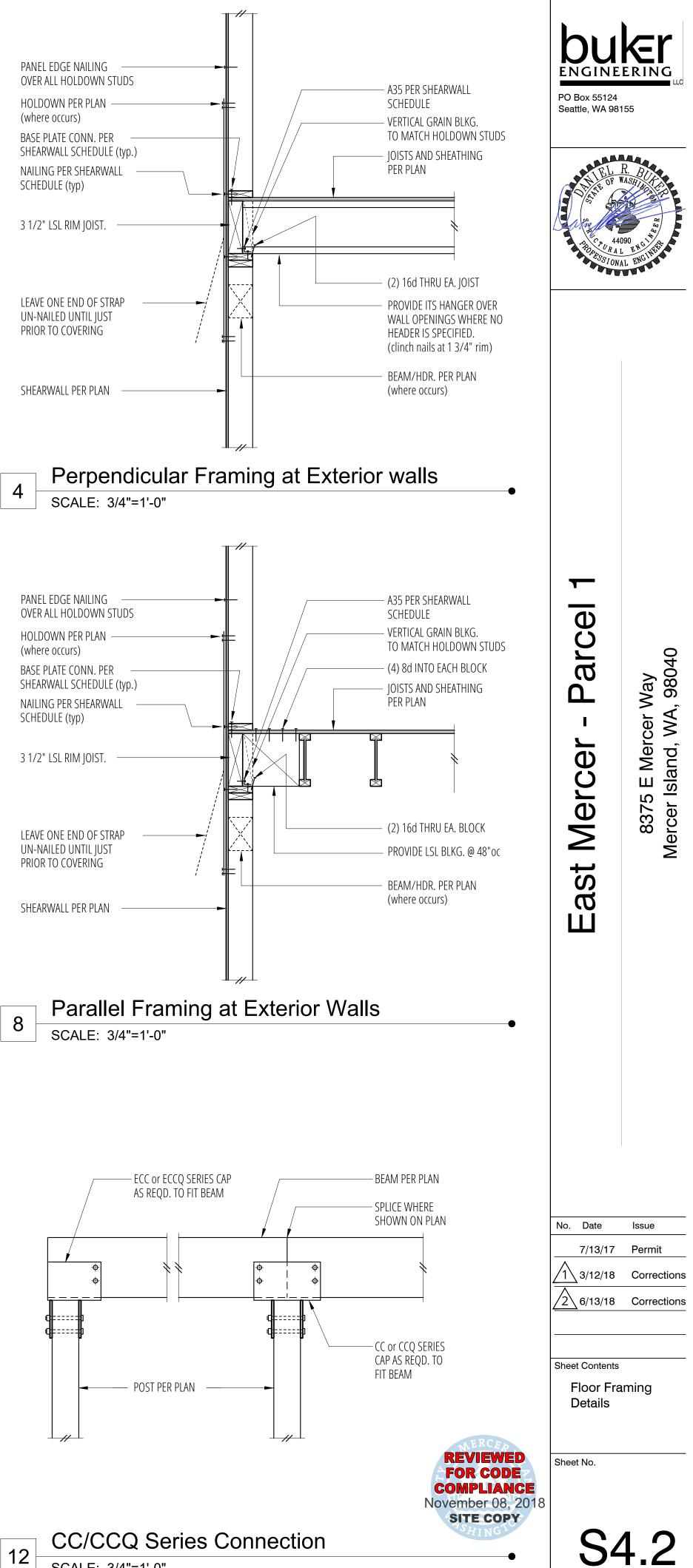
ORIENTATION PER PLAN

- FULL WIDTH VERT. GRAIN 2x BLOCKING TO MATCH HOLDOWN STUDS.

- REFER TO PLAN FOR LOCATIONS WHERE WALL CONTINUES NOTE: MSTC66 CAPACITY = 5495#/STRAP

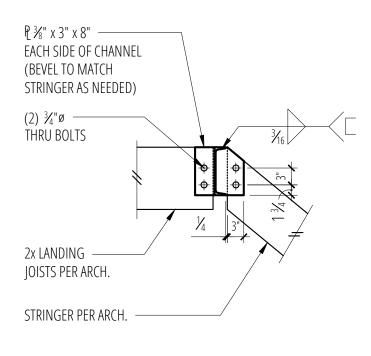


# Typical MST/MSTC Strap SCALE: 3/4"=1'-0"



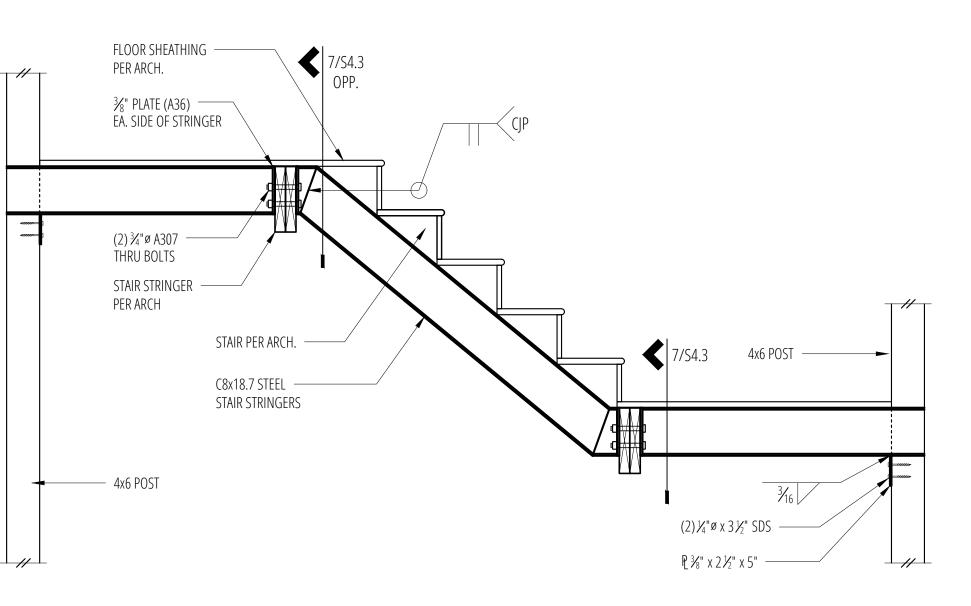
[]			
1		-•	2 SCALE: 2/4"-1'.0"
	SCALE: 3/4"=1'-0"		SCALE: 3/4"=1'-0"
5	SCALE: 3/4"=1'-0"	-•	6 SCALE: 3/4"=1'-0"
	SCALE. 5/4 - 1-0		SCALE: 5/4 -1-0
			т
			F
0		-	Bent Steel Sta
9	SCALE: 3/4"=1'-0"	•	SCALE: 3/4"=1'-0"



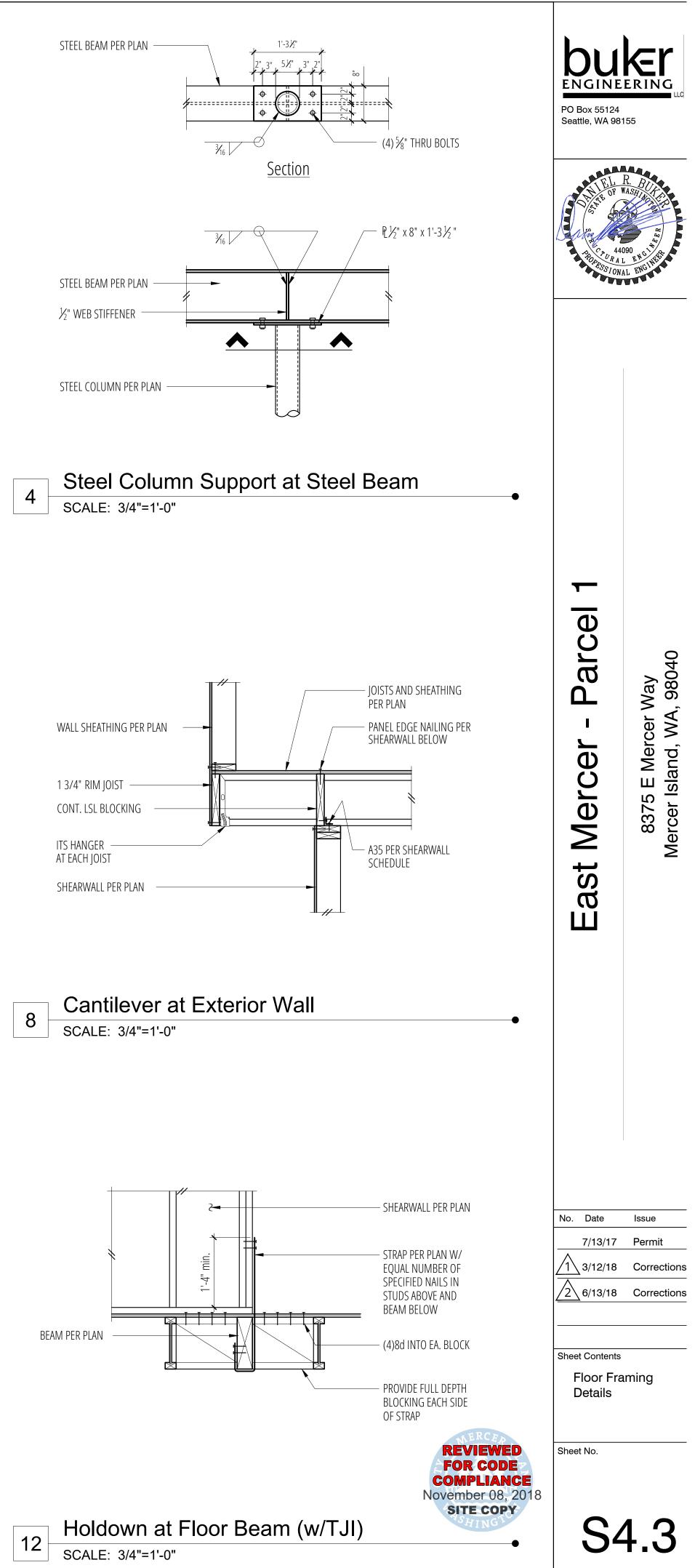




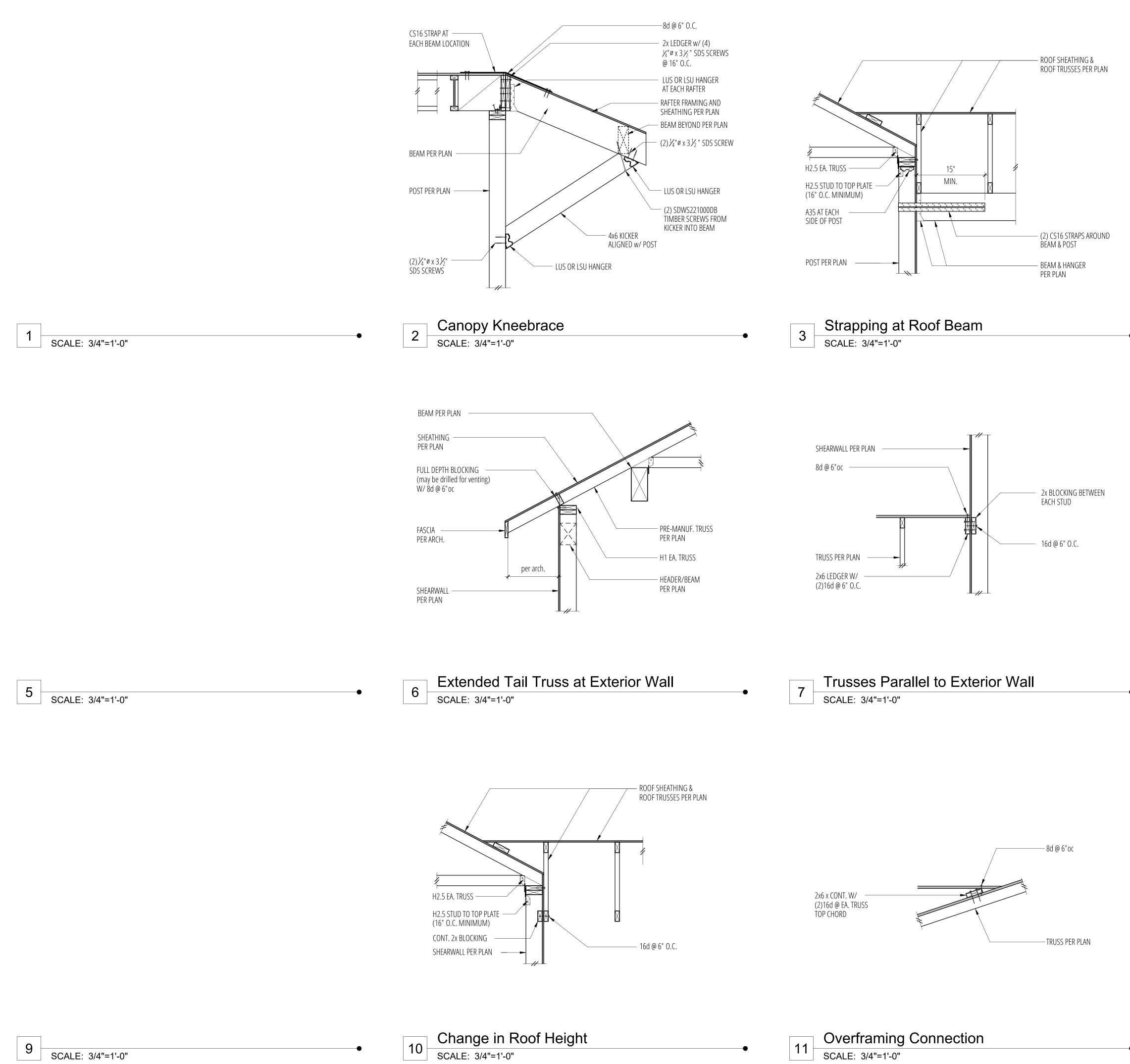
# Scale: 3/4"=1'-0"



air Stringer



----



SCALE: 3/4"=1'-0"

11 Overframing Connection SCALE: 3/4"=1'-0"

