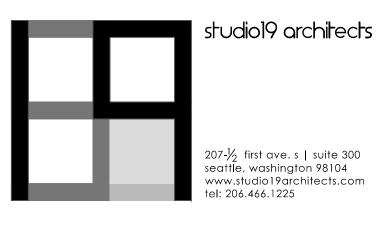
# EAST MERCER RESIDENCE

4634 EAST MERCER WAY, MERCER ISLAND, WA 98040

## REVISION TO BUILDING PERMIT

4 DDDE\/	I A TIONIC											CVAADOLC		
ARRKEA	IATIONS											SYMBOLS	15/5	PROJECT TEAM
AB AC	ANCHOR BOLT AIR CONDITIONING	DEPT DET	DEPARTMENT DETAIL	FRZ FS	FREEZER FLOOR SINK	LLV LN	LONG LEG VERTICAL LINE	PLBG PLF	PLUMBING POUNDS PER LINEAR FOOT	STD STL	STANDARD STEEL	ELEVATION INDICATOR	0'-0"	OWNER BARCELO HOMES
ACC/ACCESS ACOUS	ACCESSIBLE ACOUSTICAL	DF	DRINKING FOUNTAIN	FT	FOOT; FEET	LPT	LOW POINT	PLYWD	PLYWOOD	STL JST	STEEL JOIST	BORING INDICATOR	EL	32505 138TH PLACE SE AUBURN, WA 98092
AD	AREA DRAIN	DIA DIAG	DIAMETER DIAGONAL	FTD FTG	FACIAL TISSUE DISPENSER FOOTING	LR LT	LIVING ROOM LIGHT	PNL POL	PANEL POLISHED	STOR STRG	STORAGE STRINGER	BREAK, ROUND		CONTACT: BOGDAN MAKSIMO EMAIL: bogdan@barcelohom
ADD ADJ	ADDITIONAL ADJUSTABLE	DIFF	DIFFUSER	FURN	FURNITURE	LVR	LOUVER	PR	PAIR	STRL	STRUCTURAL			PHONE: 206-724-1072
ADJA	ADJACENT	DIM DIS	DIMENSION DISABLED	FURR FUT	FURRING; FURRED FUTURE	Μ	MALE; METER	PRCST PREFAB	PRECAST PREFABRICATED	STRUC SUBCAT	STRUCTURAL SUBCATEGORY	BREAK, STRAIGHT	,,	
AF	ACCESS FLOORING (RAISED)	DISP	DISPENSER	FWC	FABRIC WALLCOVERING	MACH	MACHINE	PROJ	PROJECT	SURR	Surround	DETAIL INDICATOR		ARCHITECT STUDIO19 ARCHITECTS
AFF AGGR	ABOVE FINISH FLOOR AGGREGATE	DMPF DMT	DAMPPROOFING DEMOUNTABLE	FWP	FABRIC WRAPPED PANE	MAINT MAS	MAINTENANCE MASONRY	PROP PSF	PROPERTY POUNDS PER SQUARE FOOT	SUSP	SUSPENDED SERVICE		A1.01	207 1/2 1ST AVE S, SUITE 300
AL	ALUMINUM	DN	DOWN	GA	GAGE	MATL	MATERIAL	PT PT	POINT; PAINT	SVC SW	SWITCH			SEATTLE, WA 98104 CONTACT: ANDREW WISDOM
ALT ANCH	ALTER; ALTERNATE ANCHOR	DO	DOOR OPENING	GALV	GALVANIZED	MAX	MAXIMUM	PTD	PAPER TOWEL DISPENSER;	SYM	SYMMETRICAL	DETAIL INDICATOR, 1		EMAIL: awisdom@studio19arc
ANOD	ANODIZED	DP DPTN	DIMENSION POINT DEMOUNTABLE PARTITION	GB GC	GRAB BAR GENERAL CONTRACT(OR)	MB MBR	MACHINE BOLT MASTER BED ROOM	PTDR	Painted Paper Towel Dispenser &	SYS	SYSTEM	LINE	A1.01	PHONE: 206-466-1225
AP	ACCESS PANEL	DR	DOOR	GFRC	GLASS FIBER REINFORCED	MC	MEDICINE CABINET		WASTE RECEPTACLE	T&G	TONGUE & GROOVE			CIVIL ENGINEERS & LAND SURV LITCHFIELD ENGINEERING, LLC
APC APPD	ACOUSTICAL PANEL CEILING APPROVED	DRN DS	DRAIN DOWNSPOUT	GFRG	CONCRETE GLASS FIBER REINFORCED	MDF MDO	MEDIUM DENSITY FIBERBOARD MEDIUM DENSITY OVERLAY	PTN PTR	PARTITION PAPER TOWEL RECEPTACLE	T	TREAD; THERMOSTAT	DETAIL INDICATOR, 1		12840 - 81ST AVENUE NE
APPROX	APPROXIMATE	DSP	DRY STANK PIPE	Orko	GYPSUM	MDO	PLYWOOD	PVC	POLYVINYL CHLORIDE	TBB	TOWEL BAR TILE BACKER BOARD	LINE WITH TAIL	A1.01	KIRKLAND, WA 98034 CONTACT: KEITH LITCHFIELD, P
ARCH ATC	ARCHITECTURAL ACOUSTICAL TILE CEILING	DW	DISHWASHER	GL GLU-LAM	GLASS GLUE LAMINATED WOOD	MECH	MECHANICAL	PVMT	PAVEMENT	TC	TOP OF CURB			EMAIL: ka.litchfield@frontier.com
AUTO	AUTOMATIC	DWG DWR	DRAWING DRAWER	GND	GROUND	MEMB MEP	MEMBRANE MECHANICAL, ELECTRICAL,	QT	QUARRY TILE	TD TEL	TRENCH DRAIN TELEPHONE; TELECOM	DIMENSION LINE	3'-0"	PHONE: 425-821-5038
AV	AUDIO VISUAL	DVIK	DIVIVIER	GR	GRADE		PLUMBING	QTY	QUANTITY	TEMP	TEMPORARY; TEMPERATURE			
BD	BOARD	(E)	EXISTING	GYP GYP BD	GYPSUM GYPSUM BOARD	MET MEZZ	METAL MEZZANINE	(R)	RELOCATED	TER	TERRAZZO	DOOR OPENING, DOOR TAG		
BLDG	BUILDING	E EA	EAST EACH	OH DD	OTI JOIN BOTTED	MFR	MANUFACTURER	R	RISER; RADIUS	TGB THK	TOGGLE BOLT THICK; THICKNESS	BOOKING	<u> </u>	
BLK	BLOCK	EB	EXPANSION BOLT	Н	HIGH/HEIGHT	MH	MANHOLE	RA	RETURN AIR	THRES	THRESHOLD		N	
BLKG BM	BLOCKING BEAM	EC	ELASTOMERIC COATING; EXPOSED CONSTRUCTION	HB HC	HOSE BIBB HOLLOW CORE	MIN MIR	MINIMUM MIRROR	RB RCP	RESILIENT BASE REFLECTED CEILING PLAN	THRU	THROUGH	ELEVATION INDICATOR, EXTERIOR	N (A1.01)	
ВО	BOTTOM OF	EFS	EXTERIOR FINISH SYSTEM	HCP	HANDICAPPED	MISC	MISCELLANEOUS	RD	ROOF DRAIN	TKBD TMPD	TACK BOARD TEMPERED	LAILMOR		
BOH	BACK OF HOUSE	EIFS	EXTERIOR INSULATION AND	HDW	HARDWARE	MLDG MM	MOLDING MILLIMETER	REBAR	REINFORCING BAR	TO	TOP OF		N	
BOT BR	BOTTOM BED ROOM	EJ	FINISH SYSTEM EXPANSION JOINT	HDWD HS	HARDWOOD HEAT STRENGTHENED (GLASS)	MO	MASONRY OPENING	RECOM RECPT	RECOMMENDED RECEPTACLE	TOC	TOP OF CURB; TOP OF CONCRETE	ELEVATION INDICATOR, INTERIOR	N A1.01	
BRG	BEARING	EL	ELEVATION	НМ	HOLLOW METAL	MOD	MODULAR	REC	RECESSED	TOP	TOP OF PAVEMENT	INTERIOR	, (1.61	
BRK BRKT	BRICK Bracket	ELAS ELEC	ELASTOMERIC ELECTRICAL	HNDRL	(STEEL FRAME) HANDRAIL	MR MS	MOISTURE RESISTANT MACHINE SCREW	REF REFL	REFERENCE REFLECTED; REFLECTIVE;	TOS	TOP OF SLAB; TOP OF STRUCTURE		1	
BS	BOTH SIDES	ELEV	ELEVATOR	HO	HOLD-OPEN	MTD	MOUNTED	KLIL	REFLECT	TOW	TOP OF WALL			DRAWING INDEX
BSMT	BASEMENT	EMER	EMERGENCY	HORLZ	HORIZONTAL	MTG	MOUNTING	REFR	REFRIGERATOR	TPD	TOILET PAPER DISPENSER	ELEVATION INDICATOR,		GENERAL
BTWN BUR	BETWEEN BUILT-UP ROOFING	ENCL EOS	ENCLOSURE EDGE OF SLAB	HPT HR	HIGH POINT HOUR	MTL MUL	METAL MULLION	REG REINF	REGISTER REINFORCED: REINFORCING	TPH TRACT	TOILET PAPER HOLDER TRACTION	INTERIOR MULTIPLE 4	A1.01 2	G0.00 COVERSHEE G1.01 CODE SUMA
DON	DOILT OF ROOTHYO	EP	ELECTRICAL PANELBOARD	HRC	HOSE REEL CABINET	MUN	MUNTIN	REL	RELOCATE	TRAN	TRANSITION		_	O1.01 CODE 301VIII
CAB	CATECORY	EQ	EQUAL	HS HT	HAND SINK HEIGHT	NI	NORTH	REM REQ	REMOVABLE REQUIRE; REQUIRED	TRD	TREAD	FURNITURE, FIXTURES AND	3	SURVEY
CAT CB	CATEGORY CATCH BASIN	EQPM ESCAL	EQUIPMENT ESCALATOR	HVAC	HEATING, VENTILATING, AIR	NA	NOT APPLICABLE	RESIL	RESILIENT	IS TV	TOWEL SHELF TELEVISION	EQUIPMENT INDICATOR	AXXX	SURVEY 1 OF 2 TREE & TOPO
CBU	CEMENTITIOUS BACKER UNIT	EW	EACH WAY	1.047	CONDITIONING	NC	NOISE CRITERIA	REV	REVISION; REVISED	TW	TOP OF WALL			2 OF 2 TREE & TOPO
CEM CEM PLAS	CEMENT CEMENT PLASTER	EWC	ELECTRICAL WATER COOLER EXHAUST	HW HYDR	HOT WATER HYDRAULIC	NIC NO	NOT IN CONTRACT NUMBER	RGH RH	ROUGH RIGHT HAND; ROBE HOOK	TYP	TYPICAL	KEYNOTE INDICATOR	$\langle xx \rangle$	CIVII
CER	CERAMIC	EXH EXP	EXPANSION			NOM	NOMINAL	RM	ROOM	UC	UNDERCUT		<b>*</b> ***	CIVIL COVER SHEE
CFCI	CONTRACTOR FURNISHED,	EXPO	EXPOSED	ID	INSIDE DIAMETER (DIMENSION)	NTS	NOT TO SCALE	RND	ROUND	UL	UNDERWRITERS LABORATORY	LEADER, STRAIGHT	NOTE	C2 TESC PLAN, SITE IMPROV
CG	CONTRACTOR INSTALLED CORNER GUARD	EXST EXT	EXISTING EXTERIOR	IN INCAND	INCH INCANDESCENT	OA	OVERALL	ro rtd	ROUGH OPENING RATED	UNF UON	UNFINISHED UNLESS OTHERWISE NOTED	WINDOW TYPE IDENTIFIER	<b>(00)</b>	C4 CONSTRUCT
CH	CHILLER		EXTERIOR	INCL	INCLUSIVE; INCLUDED;	OBS	OBSCURE	RTG	RATING	UR	URINAL			C5 TEMPORARY C6 STORM DRA
CHAN CI	CHANNEL CAST IRON	F	FEMALE	INFO	INCLUDING INFORMATION	OC OCEW	ON CENTER ON CENTER EACH WAY	RWC RWL	RAIN WATER CONDUCTOR RAIN WATER LEADER	\/A.C	VENTUATION AND AID	NORTH INDICATOR	N	
CIP	CAST-IN-PLACE	FA FAB	FIRE ALARM FABRICATE	INSUL	INSULATION	OCEW	OUTSIDE DIAMETER;	RVVL	KAIN WAILK LLADLK	VAC	VENTILATION AND AIR CONDITIONING			ARCHITECTURAL
Cl	CONTROL JOINT;	FB	FLAT BAR	INT	INTERIOR INTEGRATED	0.501	DIMENSION	S	SOUTH	VCT	VINYL COMPOSITION TILE			A1.01 SITE PLAN A1.02 TREE PLAN
CL	CONSTRUCTION JOINT CENTER LINE	FCU FD	FAN COIL UNIT FLOOR DRAIN	INTEG INTERM	INTERMEDIATE	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	SA SAN	SUPPLY AIR SANITARY	VERT VEST	VERTICAL VESTIBULE			A2.01 LEVEL 1 FLOO
CLG	CEILING	FDC	FIRE DEPARTMENT	INV	INVERT	OFD	OVER FLOW DRAIN	SC	SOLID CORE	VIF	VERIFY IN FIELD	REFERENCE GRID INDICATOR		A2.01.1 LEVEL 1 DIM A2.02 LEVEL 2 FLOO
CLO	CLOSET	ED. I	CONNECTION	IPS	INTERNATIONAL PIPE STANDARD	OFF OFOI	OFFICE Owner Furnished, Owner	SCD	SEAT COVER DISPENSER	VOL	VOLUME	WITH REFERENCE GRID LINES	B	A2.02.1 LEVEL 2 DIM
CLR CMU	CLEAR CONCRETE MASONRY UNIT	FDN FF	FOUNDATION FIRE EXTINGUISHER	IRMA	INVERTED ROOF MEMBRANE	Oron	INSTALLED	SCHED SCP	SCHEDULE SCUPPER	VP VR	VENEER PLASTER VAPOR RETARDER		В	A2.03 LEVEL 3 FLOO A2.03.1 LEVEL 3 DIM
CNTR	COUNTER	FEC	FIRE EXTINGUISHER CABINET		ASSEMBLY	OH	OVERHEAD	SCR	SCREEN	VT	VINYL TILE			A2.04 ROOF PLAN
COL	CASED OPENING; CLEANOUT COLUMN	FF&E	Furniture, finishes & Equipment	JAL	JALOUSIE	OPH OPNG	OPPOSITE HAND OPENING	SD	STORM DRAIN; SMOKE DETECTOR; SOAP DISPENSER	VTR	VENT THROUGH ROOF		——————————————————————————————————————	A3.01 NORTH ELEV A3.02 EAST ELEVAT
COMP	COMPARTMENT	FFEL	FINISH FLOOR ELEVATION	JAN	JANITOR	OPP	OPPOSITE	SECT	SECTION	VWC	VINYL WALL COVERING			A3.03 SOUTH ELEV A3.04 WEST ELEVA
CONC	CONCRETE	FH	FLAT HEAD	JB JC	JUNCTION BOX JANITOR'S CLOSET	OPP OPR	HD OPPOSITE HAND OPERABLE	SF	SQUARE FEE; FOOT	W/	WITH	REVISION INDICATOR		A4.01 BUILDING SE
COND CONN	CONDITION CONNECTION	FHC FIN	FIRE HOSE CABINET FINISH	JST	JOIST	ORD	OPERABLE  OVERFLOW ROOF DRAIN	SG SH	SAFETY GLASS SPRINKLER HEAD	W/O W	WITHOUT WASHER; WIDE; WIDTH; WEST	(SHOWN WITH REVISION	\ \ \ \	A4.02 BUILDING SE A4.03 BUILDING SE
CONSTR	CONSTRUCTION	FIXT	FIXTURE	JT	JOINT	OVHD	OVERHEAD	SHT	SHEET	WC	WASHER, WIDE, WIDTH, WEST	CLOUD) TYPICAL	$\langle x \rangle$	A4.04 BUILDING SE
CONT	CONTINUOUS	FL	FLOOR	K	KIP (1000 LBF)	Þ	PAINT	SHTG	SHEATHING	\\/B	COVERING	ROOM NAME IDENTIFIER	ROOM	A8.01 DETAILS A8.02 DETAILS
CONTR COORD	CONTRACTOR COORDINATE	FLASH FLDG	FLASHING FOLDING	KD	KNOCK DOWN	PA	PUBLIC ADDRESS SYSTEM	SHR SIM	shower similar	WD WDS	WOOD WOOD SCREW	WITH ROOM NAME	NAME	A9.01 DOOR & WII
CORR	CORRIDOR	FLG	FLOORING	KIT	KITCHEN	PARTN	PARTITION	SL	SLOPE	WDW	WINDOW	AND NUMBER	XXX	A9.02 DOOR & WII A9.03 DOOR & WII
CPT CP1.4	CARPET	FLUOR	FLUORESCENT	KPL KG	KICK PLATE KILOGRAM	PASS PATD	PASSAGE PAPER TOWEL DISPENSER	SLDG	SLIDING	WGL	WIRE GLASS	SECTION INDICATOR		
CRM CT	CONCRETE RUBBLE MASONRY CERAMIC TILE;	FO FOC	FACE OF FACE OF CONCRETE	KO	KNOCKOUT	PAV	PAVING	SLNT SM	SEALANT SHEET METAL; SQUARE METER	WH WO	WATER HEATER WHERE OCCURS	FOR BUILDING		STRUCTURAL
	COOLING TOWER	FOF	FACE OF FINISH	I	LONG OR LITER	PBD	PARTICLEBOARD	SND	SANITARY NAPKIN DISPENSER	WP	WATERPROOFING	4.		S1 GENERAL ST S1.1 STATEMENT
CTSK	CENTER	FOM FOS	FACE OF MASONRY FACE OF STUDS; SLAB;	L	(METRIC DOCS)	PC PD	PRECAST CONCRETE PLANTER DRAIN	SDR	SANITARY NAPKIN RECEPTACLE	WPM WPT	WATERPROOFING MEMBRANE WORK POINT	A	object referenced	\$2 FOUNDATIO
CTSK CULT	COUNTERSUNK CULTURED	103	STRUCTURE	LAB	LABORATORY	PDF	POWDER DRIVEN FASTENER	SP	STANDPIPE	WPI WR	WORK POINT WATER RESISTANT; REPELLANT			S2.1 RETAINING V S3 MOMENT FR
CW	COLD WATER (PIPING)	FOW	FACE OF WALL	LAM LAV	LAMINATE; LAMINATION LAVATORY	PERF	PERFORATED	SPEC	SPECIFICATION	WS	WEATHER STRIPPING	SECTION INDICATOR		S4 FIRST FLOOR
D	DEEP; DEPTH; DRYER	FP FPG	FIRE PROTECTION FIREPROOFING	LA V LB	POUND	PERIM PERP	PERIMETER PERPENDICULAR	SPKR SPRK	SPEAKER SPRINKLER	WSCT WSP	WAINSCOT WET STAND PIPE	FOR PARTIAL BUILDING	1.01	S5 SECOND FLO S6 WALL & BUIL
D DA	DEEP; DEPTH; DRYER  DOUBLE ACTING	FR	FRAME	LDG	LANDING	PH	PENTHOUSE	SQ	SQUARE	wy.	WEIGHT		object referenced	S7 ROOF FRAM
DBL	DOUBLE	FRP	FIBERGLASS REINFORCED POLYESTER	LF LH	LINEAR FOOT LEFT HAND	PI PI	POINT OF INTERSECTION PLATE; PROPERTY LINE	SSE	STRUCTURE SLAB ELEVATION	WW	WALL TO WALL	ASSEMBLY	ASSEMBLY GROUP ASSEMBLY TYPE NUMBER	S8 FIRST FLOOR S9 SECOND & T
DD DEG	DECK DRAIN DEGREE	FRT	FIRE RETARDANT TREATED	LKR	LOCKER	PL PLAM	PLASTIC LAMINATE	SS SSK	STAINLESS STEEL SERVICE SINK	WWF	WELDED WIRE FABRIC	TYPE INDICATOR	_ <del>       </del>	\$10 SOLDIER PILE
DEMO	DEMOLITION	FRTW	FIRE RETARDANT TREATED WOOD	LLH	LONG LEG HORIZONTAL	PLAS	PLASTER	STA	STATION				X0	S11 SOLDIER PILE



**CONSULTANT:** 

#### PROFESSIONAL SEAL:



#### PROJECT:

CONTACT: BOGDAN MAKSIMCHUK EMAIL: boadan@barcelohomes.com

CIVIL ENGINEERS & LAND SURVEYORS

CODE SUMMARY

TREE & TOPOGRAPHIC SURVEY

SITE IMPROVEMENT PLAN & NOTES

TEMPORARY EXCAVATION PLAN

CONSTRUCTION DETAILS

STORM DRAIN OUTFALL

LEVEL 1 FLOOR PLAN

LEVEL 2 FLOOR PLAN

LEVEL 3 FLOOR PLAN

NORTH ELEVATION

EAST ELEVATION SOUTH ELEVATION

WEST ELEVATION

**BUILDING SECTION** 

**BUILDING SECTION BUILDING SECTION** 

BUILDING SECTION

DOOR & WINDOW SCHEDULES

DOOR & WINDOW SCHEDULES

DOOR & WINDOW SCHEDULES

GENERAL STRUCTURAL NOTES STATEMENT OF SPECIAL INSPECTIONS

RETAINING WALL SCHEDULE

FIRST FLOOR FRAMING PLAN SECOND FLOOR FRAMING PLAN WALL & BUILDING SECTIONS, DETAILS

FIRST FLOOR SHEAR WALL PLAN

MOMENT FRAME DETAILS & ELEVATION

SECOND & THIRD FLOOR SHEAR WALL PLANS

FOUNDATION PLAN

ROOF FRAMING PLAN

SOLDIER PILE SHORING

SOLDIER PILE SHORING

LEVEL 1 DIMENSION PLAN

LEVEL 2 DIMENSION PLAN

LEVEL 3 DIMENSION PLAN

TREE & TOPOGRAPHIC SURVEY & GENERAL NOTES

COVER SHEET, VICINITY MAP, GENERAL NOTES

TESC PLAN, MISC. DETAILS, EROSION CONTROL NOTES

GEOTECHNICAL ENGINEER

SEATTLE, WA 98102-7127

PHONE: 206-262-0370

STRUCTURAL ENGINEER

6830 NE BOTHELL WAY

KENMORE, WA 98028

PHONE: 206-553-9076

TECINSTRUCT LLC

SUITE C, PMB 181

CONTRACTOR

BARCELO HOMES 32505 138TH PLACE SE

**AUBURN, WA 98092** 

PHONE: 206-724-1072

3213 EASTLAKE AVENUE E, SUITE B

CONTACT: H. MICHAEL XUE, P.E

EMAIL: mxue@pangeoinc.com

CONTACT: ROLAND HEIMISCH

CONTACT: BOGDAN MAKSIMCHUK

EMAIL: bogdan@barcelohomes.com

PO BOX 1733 AUBURN, WA 98071 Phone: (206) 724-1072

## EAST MERCER RESIDENCE

4634 EAST MERCER WAY MERCER ISLAND, WA 98040

SHEET	SSUE:	
	6/24/2015	PERMIT SUBMITTAL
	8/29/2016	PERMIT APPROVED
1	6/05/2017	REVISION TO PERMIT

### MUNICIPALITY REVIEW:

PROJECT # MERCER ISLAND 15 - 015

## SHEET TITLE:

COVERSHEET

DATE ISSUED:

SHEET NUMBER:

PROJECT NO.:

6/05/2017

G0.01

20140904

#### ZONING CODE ANALYSIS

- CODE REFERENCES:
- MERCER ISLAND MUNICIPAL CODE, ADOPTED DECEMBER 1, 2014
- 2012 INTERNATIONAL BUILDING CODE WITH STATEWIDE AND CITY AMENDMENTS
- 2012 INTERNATIONAL RESIDENTIAL CODE WITH STATEWIDE AND CITY AMENDMENTS
- 2012 SEATTLE ENERGY CODE RESIDENTIAL
- 2012 INTERNATIONAL MECHANICAL CODE WITH STATEWIDE AND CITY AMENDMENTS
- WASHINGTON CITIES ELECTRICAL CODE
- 2012 INTERNATIONAL FIRE CODE WITH STATEWIDE AND CITY AMENDMENTS
- 2012 INTERNATIONAL FUEL GAS CODE WITH STATEWIDE AND CITY AMENDMENTS
- 2012 WASHINGTON STATE PLUMBING CODE WITH CITY AMENDMENTS

SECTION	EXISTING / REQUIRED	PROPOSED	COMPLIES	SHEET
ZONING	R-15	R-15	YES	G0.02
LOT SIZE	21,417.54 SF			G0.02
	STEEP SLOPE			
CRITICAL AREAS	HILLSIDE ( 27.71 % MAX SLOPE )			A1.01
MAXIMUM BUILDABLE AREA	45% of LOT AREA (21,417 SF) = 9,637.65 SF	9,637.65 SF	YES	G0.02
MAXIMUM IMPERVIOUS COVERAGE	30% of LOT AREA (21,417 SF) = 6,425.10 SF	-	-	G0.02
BUILDING HEIGHT LIMIT	30' FROM AVERAGE BUILDING GRADE + 5' FOR ROOF WITH MINIMUM 4:12 PITCH	30'	YES	A3.01 / A3.02
	FRONT = 20' MINIMUM	20'	YES	A1.01
SETBACKS	REAR = 25' MINIMUM	25'	YES	A1.01
	SIDES = 5' MINIMUM	5'	YES	A1.01
PARKING	1 PARKING SPACE / DWELLING UNIT	1 PARKING SPACE / DWELLING UNIT	YES	A2.01
PARKING ACCESS	ACCESS FROM PRIVATE ROAD	10 FT DRIVE	YES	A2.01
LANDSCAPING	TOTAL DIAMETER OF TREES RETAINED OR PLANTED = 2 INCH PER 1000 SF	1	YES	A1.01
FIRE SPRINKLERS	PER NFPA 13D - REQUIRED ON STRUCTURES 5,000 SF OR MORE	YES	YES	DEFERED
PROJECTIONS	36" ROOF EAVES AND GUTTERS		YES	A2.04
CONSTRUCTION TYPE	RESIDENTIAL - TYPE VA			
WATER	WATER DISTRICT			
SEWER / SEPTIC	PUBLIC			
ROAD ACCESS	PRIVATE			
STREET SURFACE	PAVED			

## **ENERGY CODE ANALYSIS**

PERFORMANCE REQUIREMENT	MEET OR EXCEED THE 2012 WASHINGTON STATE ENERGY CODE	PROPOSED
TOTAL HEATED FLOOR AREA (GROSS)		3,017.01 SF
LEVEL 1		1,394 SF
LEVEL 2		976.21 SF
LEVEL 3		646.80
GLAZING AREA % OF FLOOR	OPTION III : UNLIMITED	1,310.67 SF
CLIMATE ZONE	MARINE 4	
FENESTRATION U-FACTOR	0.30	SEE WSEC GLAZING SCHEDULE
CEILING R-VALUE	R-49 OR R-38 ADVANCED FRAMED CEILING	R-50 & R-54 (SEE ROOF PLAN)
WOOD FRAME WALL ABOVE GRADE R-VALUE	R-21 (16 OC, HEADERS MIN R-10)	R-21
FLOOR R-VALUE / U-FACTOR	R = 30 / U = 0.029	R-30
SLAB ON GRADE R-VALUE	R = 10, 2'	R-10 (FULL UNDER)
BELOW GRADE U-FACTOR	0.042	0.04200
DOOR U-FACTOR	0.20	0.30000
DOOR U-FACTOR (DEFAULT GLAZED FENESTRATION U-FACTOR, METAL WITH THERMAL BREAK, DOUBLE PANE; TABLE R303.1.3 (1))	0.65	NOT APPLICABLE

### CONTRACTOR NOTES

- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL BONDS, CASH DEPOSITS. ETC. THAT THE CITY WILL REQUIRED TO FACILITATE CONSTRUCTION OF THE PROJECT.
- 2. GENERAL CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE WATER, SEWER, POWER AND TELEPHONE CONNECTIONS FOR THE CONSTRUCTION TRAILER.
- 3. UNLESS QUALIFIED, NO PRODUCT SUBSTITUTIONS "OR EQUAL" PRODUCTS. EQUIPMENT OR MATERIALS SHALL BE ALLOWED.
- 4. THE GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL OTHER PERMITS REQUIRED BY LAW FOR THE EXECUTION OF THIS WORK UNLESS NOTED OTHERWISE. THE BASIC BUILDING PERMIT WILL BE OBTAINED AND PAID FOR BY THE OWNER. ALL TRADE PERMITS, IF REQUIRED BY JURISDICTION AUTHORITIES, AND FEES SHALL BE PAID FOR BY THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL ALSO OBTAIN AND PAY CERTIFICATES, INSPECTIONS AND OTHER LEGAL FEES REQUIRED, BOTH PERMANENT AND TEMPORARY, INCLUDING PLUMBING, ELECTRICAL AND HIGHWAY PERMITS UNLESS SPECIFICALLY OTHERWISE PROVIDED.
- GENERAL CONTRACTOR HAS RESEARCHED AND VERIFIED ALL TRASH, DEBRIS, AND RECYCLING REQUIREMENTS FOR THE CITY IN WHICH THIS WORK WILL BE PERFORMED AND HAS INCLUDED SUCH COSTS INTO THIS PROPOSAL.
- GENERAL CONTRACTOR IS RESPONSIBLE FOR SITE SURVEYING AND LAYOUT, OWNER TO PROVIDE ONE (1) BENCHMARK FOR GENERAL CONTRACTOR'S USE. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE, FURNISH AND INSTALL ALL FRAMING, BACKING AND DEADWOOD REQUIREMENTS FOR
- EQUIPMENT AND MATERIALS INSTALLED IN THE BUILDING. 8. JOINT SEALERS SHALL BE REQUIRED AT THE INTERSECTION OF ALL DISSIMILAR MATERIALS IN INTERIOR AND EXTERIOR CONDITIONS.
- 9. ARCHITECTURAL, MECHANICAL, AND ELECTRICAL PENETRATIONS OF THE BUILDING ENVELOPE INCLUDING EXTERIOR WINDOWS, GRILLES, HVAC DUCTWORK, AND CONDUIT AS REQUIRED THROUGH THE EXTERIOR WALLS, ROOF DECKS, VERTICAL ROOF AND MANSARD WALLS SHALL REQUIRE MECHANICAL FLASHING IN ADDITION TO APPROPRIATE EXTERIOR SEALANTS TO PROVIDE AND ENSURE
- WATERTIGHT CONDITIONS AT THESE LOCATIONS. 10. GUTTERS, DOWNSPOUTS AND ALL EXTERIOR SHEET METALS ARE TO BE PRE-FINISHED AT THE FACTORY. COLOR SHALL BE SELECTED FROM THE MANUFACTURER'S FULL RANGE OF COLOR OPTIONS BY THE ARCHITECT. NO FIELD PAINTING TO BE ALLOWED.
- 11. ALL EXTERIOR LOUVER GRILLES SHALL BE FACTORY PAINTED WITH KYNAR FINISH TO MATCH THE EXTERIOR FIELD COLOR IN WHICH THEY ARE LOCATED. 12. ALL EXTERIOR METALS SHALL BE GALVANIZED, PRE-FINISHED OR FIELD PAINTED PER
- ARCHITECT COORDINATION GC SHALL ASSUME THE MOST STRINGENT FINISH IF NOT INDICATED ON DOCUMENTS. 13. APPLIANCES - GENERALLY, THIS EQUIPMENT IS DELIVERED FACTORY DIRECT. MOUNTING AND CONNECTIONS NOT INCLUDED. GENERAL CONTRACTOR SHALL
- MOUNT AND MAKE UP ALL REQUIRED CONNECTIONS TO MAKE THE EQUIPMENT FUNCTION PROPERLY. 14. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE SET OF DRAWINGS TO EACH SUBCONTRACTOR AND FOR INSURING THAT THE WORK OF
- SUBCONTRACTORS. 15. THE LAST DATED REVISION VOIDS AND SUPERSEDES ANY AND ALL PREVIOUS DRAWINGS WITH THE SAME SHEET NUMBER. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO RECOVER AN DISPOSE OF ALL SUPERSEDED / PREVIOUSLY ISSUED PLANS FROM ALL SUBCONTRACTORS, SUPPLIES AND MATERIAL PERSONS. ALL COSTS RESULTING FROM A FAILURE TO ISSUE REVISED SHEETS, AND RECOVERY / DISPOSAL OF SUPERSEDED SHEETS IN A TIMELY MANNER, SHALL BE

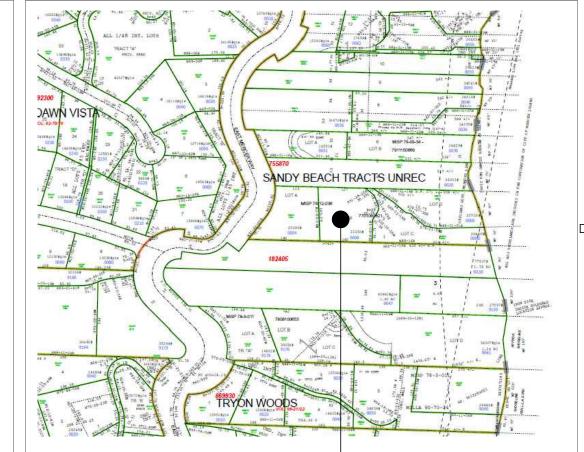
EACH SUBCONTRACTOR IS COORDINATED WITH THE WORK OF ALL OTHER

- ABSORBED BY THE GENERAL CONTRACTOR. THE OWNER AND ARCHITECT WILL NOT BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH THE ABOVE. 16. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE ALL EXISTING UTILITIES AND PROTECT THEM FROM DAMAGE, THE CONTRACTOR SHALL BEAR ALL EXPENSES OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY
- DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK. ALL FINAL CONNECTIONS TO EXISTING UTILITIES SHALL BE BY THE CONTRACTOR. 17. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THE SITE THROUGHOUT THE CONSTRUCTION PROCESS.
- 18. GENERAL CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS AND WORKERS AS REQUIRED BY GENERAL CONDITIONS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- 19. DO NOT OBSTRUCT STREETS, SIDEWALKS, ALLEYS OR OTHER RIGHT-OF-WAYS WITHOUT FIRST OBTAINING PROPER PERMITS.
- 20. ALL FIRE RATED CONSTRUCTION SHALL CONFORM WITH CURRENT UL TESTED STANDARD AND/OR LOCAL REQUIREMENTS.

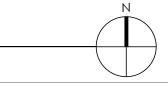
#### GENERAL NOTES

- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. DRAWINGS HAVE BEE PREPARED ON AN ORIGINAL SHEET SIZE OF 24" X 36". INFORMATION REGARDING EXISTING CONDITIONS USED TO PREPARE THESE DRAWINGS HAS BEEN PROVIDED BY OTHERS. CONTRACTOR TO FIELD VERIFY
- EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION. PROVIDE WRITTEN NOTIFICATION TO THE ARCHITECT OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE DRAWINGS. THE ARCHITECT WILL ISSUE A WRITTEN DIRECTIVE IF FURTHER CLARIFICATION IS REQUIRED. 4. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, DATUM, LEVELS AND
- CONDITIONS PERTAINING TO THE WORK PRIOR TO COMMENCING CONSTRUCTION, PROVIDE WRITTEN NOTIFICATION TO THE ARCHITECT OF ANY DISCREPANCIES WITH THE DOCUMENTS. THE ARCHITECT WILL ISSUE A WRITTEN DIRECTIVE IF FURTHER CLARIFICATION IS REQUIRED.
- THESE DRAWINGS ARE THE EXCLUSIVE PROPERTY OF STUDIO19 ARCHITECTS, AND HAVE BEEN PREPARED FOR THE USE IN THE EXECUTION OF THE ENCLOSED PROJECT. USE OR REPRODUCTION FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF STUDIO19 ARCHITECTS IS PROHIBITED.
- LEGENDS ON THE PLANS AND SCHEDULE IN THE SPECS SHALL BE COMPLEMENTARY.
- . ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE CODES AND RESTRICTIONS ENFORCED BY AUTHORITIES HAVING JURISDICTION.

#### VICINTIY MAP



PROJECT LOCATION



#### **VENTILATION NOTES**

WAC 51-13, WASHINGTON STATE VENTILATION AND INDOOR AIR QUALITY CODE SEATTLE RESIDENTIAL CODE (SRC), CHAPTER 15

- 1. WHOLE HOUSE VENTILATION PER IRC M1508.7.
- 2. NOISE: WHOLE HOUSE FANS LOCATED FOUR FEET OR LESS FROM THE INTERIOR GRILLE SHALL HAVE A SONE RATING OF 1.0 OR LESS.
- 3. EXHAUST DUCTS SHALL TERMINATE OUTSIDE OF THE BUILDING.
- 4. OUTDOOR AIR DISTRIBUTION: OUTDOOR AIR SHALL BE DISTRIBUTED TO EACH HABITABLE ROOM BY MEANS SUCH AS INDIVIDUAL INLETS, SEPARATE DUCT SYSTEMS, OR A FORCED-AIR SYSTEM.
- DOORS SHALL BE UNDERCUT TO A MINIMUM OF ONE-HALF INCH ABOVE THE SURFACE OF THE FINISH FLOOR COVERING. DOORS AND OPERABLE LITES IN WINDOWS ARE DEEMED NOT TO MEET THE OUTDOOR AIR SUPPLY INTAKE REQUIREMENTS.
- INTERMITTENTLY OPERATING MINIMUM EXHAUST RATES FOR BATHROOMS = 50 CFM, KITCHENS = 100 CFM. - U.N.O.
- EXHAUST HOOD SYSTEMS CAPABLE OF EXHAUSTING IN EXCESS OF 400 CFM SHALL BE PROVIDED WITH MAKEUP AIR AT A RATE APPROXIMATELY EQUAL TO THE EXHAUST AIR RATE. SUCH MAKEUP AIR SYSTEMS SHALL BE EQUIPPED WITH A MEANS OF CLOSURE AND SHALL BE AUTOMATICALLY CONTROLLED TO START AND OPERATE SIMULTANEOUSLY WITH THE EXHAUST SYSTEM. PER M1503.4

#### SITE DESCRIPTION

PARCEL #

WATERFRONT

755870-0008

LEGAL DESCRIPTION SANDY BEACH TRS UNREC LOT B CITY OF MERCER ISLAND SHORT PLAT 76-12-036 REC #7701060821 SD SP DAF -

PROPERTY ADDRESS: 4634 EAST MERCER WAY, MERCER ISLAND, WA 98040

LOT SIZE 21,417.54 GSF PER SURVEY WIDTH 159.65'

DEPTH 145.19'

**ACCESS** PRIVATE ROAD FROM EAST MERCER WAY

NONE

LOTS 1-2 & 3

EASEMENTS ACCESS EASEMENT AS DEFINED IN SHORT PLAT 76-12-036 REC#7701060821

## **ENERGY CODE NOTES**

## WASHINGTON STATE ENERGY CODE

- . BUILDING AIR LEAKAGE TESTING, DEMONSTRATING 2.0 AIR EXCHANGES PER HOUR (MAX) IS REQUIRED PRIOR TO FINAL INSPECTION. THE TEST RESULTS SHALL BE POSTED ON THE RESIDENTIAL ENERGY COMPLIANCE CERTIFICATE.
- 2. EACH DWELLING UNIT IS REQUIRED TO BE PROVIDED WITH AT LEAST ONE PROGRAMMABLE THERMOSTAT FOR REGULATION OF TEMPERATURE (WSEC R403.1.1).
- B. A SIGNED AFFIDAVIT DOCUMENTING THE DUCT LEAKAGE TEST RESULTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR PRIOR TO AN APPROVED FINAL INSPECTION (WSEC R402.4.1.2).
- 4. DUCT LEAKAGE TEST RESULTS SHALL BE PROVIDED TO THE BUILDING INSPECTOR AND HOMEOWNER PRIOR TO APPROVED FINAL INSPECTION (WSEC R403.2.2
- 5. MINIMUM 75% OF ALL INTERIOR LUMINAIRES SHALL BE HIGH EFFICACY LUMINAIRES, AND ALL EXTERIOR LIGHTING SHALL BE HIGH EFFICACY LUMINAIRES
- 7. ALL DUCTS NOT LOCATED COMPLETELY INSIDE THE BUILDING THERMAL ENVELOPE
- MANUFACTURED FOR ITS INTENDED USE, AND INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. FOR SLABS INSIDE FOUNDATION WALL, THE INSULATION SHALL BE INSTALLED TO PROVIDE A THERMAL BREAK BETWEEN THE SLAB EDGE AND THE FOUNDATION. MONOLITHIC SLABS SHALL INCLUDE INSULATION, INSTALLED OUTSIDE THE FOUNDATION WALL, AND SHALL EXTEND DOWNWARD FROM THE TOP OF THE SLAB FOR A MINIMUM DISTANCE OF 24" OR DOWNWARD AND THEN HORIZONTALLY FOR A MINIMUM COMBINED DISTANCE OF 24", AND SHOULD INCLUDE R-10 INSULATION UNDER THE NON-LOAD BEARING PORTIONS OF THE SLAB.
- 9. INSULATION FOR HOT WATER PIPES SHALL BE A MINIMUM OF R-4.
- 10. WASHINGTON STATE ENERGY CREDITS PER TABLE 406.2:
- 1a EFFICIENT BUILDING ENVELOPE PRESCRIPTIVE COMPLIANCE BASED ON †ABLE R402.1 WITH THE FOLLOWING MODIFICATIONS: FENESTRATION U = 0.28 SLAB ON GRADE, R-10 PERIMETER AND UNDER ENTIRE SLAB
- CREDITS FROM THIS OPTION = 0.5
- SECTION M1507.3 OF THE IRC.
- SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.70 PER WSEC R403.5

## PROJECT INFORMATION

A NEW CONSTRUCTION OF A 3 LEVEL

SEISMIC ZONE: ZONE 3

**BUILDING AREAS:** 

PARCEL #:

PERCENTAGE LOT COVERAGE:

- 8. REQUIRED SLAB PERIMETER INSULATION TO BE WATER RESISTANT MATERIAL,

- 2b AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION COMPLIANCE BASED ON SECTION R402.4.1.2 REDUCE TESTED AIR
  - ALL WHOLE HOUSE VENTILATION REQUIREMENTS AS DETERMINED BY
  - CREDITS FROM THIS OPTION = 1.0
- 5a EFFICIENT WATER HEATING GAS, PROPANE, OR OIL WATER HEATER WITH MINIMUM EF OF 0.62 CREDITS FROM THIS OPTION = 0.5

SINGLE FAMILY RESIDENCE

PROPERTY ADDRESS: 4634 EAST MERCER WAY, MERCER ISLAND, WA 98040

AND WSU RS-33).

- (WSEC R404.1).
- 6. ALL HEADERS IN EXTERIOR WALLS TO HAVE A MINIMUM R-10 INSULATION.
- SHALL BE INSULATED TO A MINIMUM OF R-8.
- - BELOW GRADE SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB COMPLIANCE BASED ON SECTION R402.1.4: REDUCE TOTAL UA BY 5%
- LEAKAGE TO 2.0 AIR CHANGES PER HOUR MAX.
- PROVIDE BALANCED WHOLE HOUSE VENTILATION SYSTEM WITH MINIMUM

PROJECT DESCRIPTION:

755870-0008

LOT AREA: 21,417.54 GSF PER SURVEY

LEVEL 2: 2,408 SQ FT LEVEL 3: 2,364 SQ FT TOTAL LIVABLE AREA: 6,488 SQ FT F.A.R. 30.29 %

LEVEL 1:

LEVEL 1 GARAGE: 898 SQ FT LEVEL 2 VIEW DECK 1 431 SQ FT LEVEL 2 VIEW DECK 2: 217 SQ FT LEVEL 3 VIEW DECK 3: 148 SQ FT LEVEL 3 ROOF DECK: 262 SQ FT

1,716 SQ FT

8,444 SQ FT

27.44 %

STRUCTURE FOOTPRINT: IMPERVIOUS AREAS: 3,511 SQ FT 477 SQ FT ENTRY STAIR: LEVEL 1 PATIO: 73 SQ FT LEVEL 2 PATIO: 316 SQ FT

DRIVEWAY: 1,500 SQ FT TOTAL IMPERVIOUS AREA: 5,877 SQ FT

TOTAL STRUCTURE SF:

## MECHANICAL, ELECTRICAL, AND PLUMBING NOTES

MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND CALCULATIONS TO BE DEFERRED.

studiol9 architects 207-1/2 first ave. s | suite 300 seattle, washington 98104 www.studio19architects.com I: 206.466.1225

**CONSULTANT:** 

PROFESSIONAL SEAL:



PROJECT:

PO BOX 1733 AUBURN, WA 98071

Phone: (206) 724-1072

EAST MERCER RESIDENCE

4634 EAST MERCER WAY MERCER ISLAND, WA 98040

SHEET ISSUE: PERMIT SUBMITTAL 6/24/2015 PERMIT APPROVED 8/29/2016

REVISION TO PERMIT

PROJECT # MERCER ISLAND 15 - 015

**MUNICIPALITY REVIEW:** 

6/05/2017

SHEET TITLE:

CODE SUMMARY

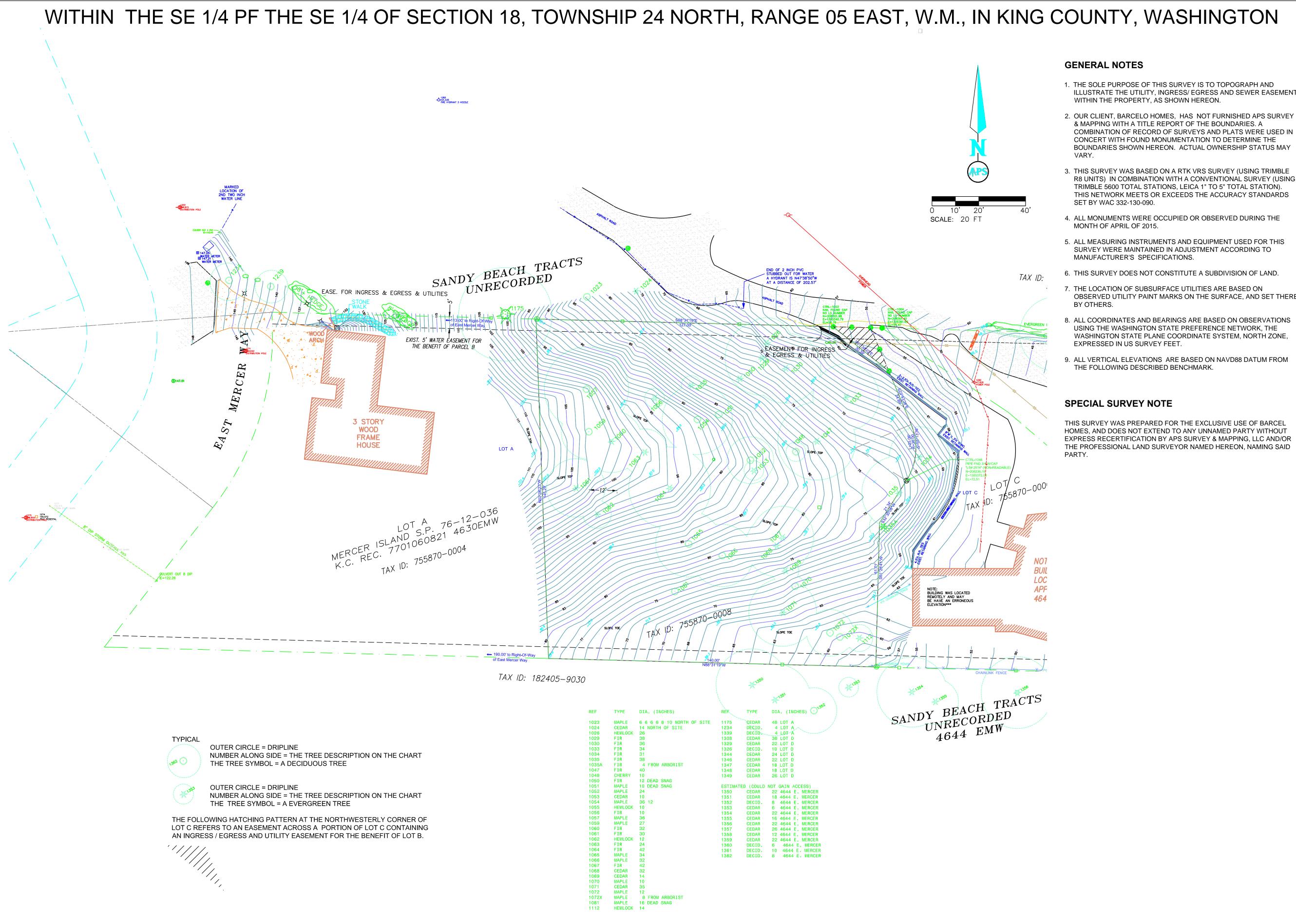
DATE ISSUED:

PROJECT NO.:

SHEET NUMBER:

20140904

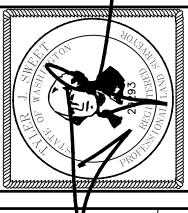
6/05/2017



- 1. THE SOLE PURPOSE OF THIS SURVEY IS TO TOPOGRAPH AND ILLUSTRATE THE UTILITY, INGRESS/ EGRESS AND SEWER EASEMENT
- & MAPPING WITH A TITLE REPORT OF THE BOUNDARIES. A COMBINATION OF RECORD OF SURVEYS AND PLATS WERE USED IN CONCERT WITH FOUND MONUMENTATION TO DETERMINE THE BOUNDARIES SHOWN HEREON. ACTUAL OWNERSHIP STATUS MAY
- 3. THIS SURVEY WAS BASED ON A RTK VRS SURVEY (USING TRIMBLE R8 UNITS) IN COMBINATION WITH A CONVENTIONAL SURVEY (USING TRIMBLE 5600 TOTAL STATIONS, LEICA 1" TO 5" TOTAL STATION). THIS NETWORK MEETS OR EXCEEDS THE ACCURACY STANDARDS
- 5. ALL MEASURING INSTRUMENTS AND EQUIPMENT USED FOR THIS SURVEY WERE MAINTAINED IN ADJUSTMENT ACCORDING TO
- 7. THE LOCATION OF SUBSURFACE UTILITIES ARE BASED ON OBSERVED UTILITY PAINT MARKS ON THE SURFACE, AND SET THERE
- 8. ALL COORDINATES AND BEARINGS ARE BASED ON OBSERVATIONS USING THE WASHINGTON STATE PREFERENCE NETWORK, THE WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE,
- 9. ALL VERTICAL ELEVATIONS ARE BASED ON NAVD88 DATUM FROM

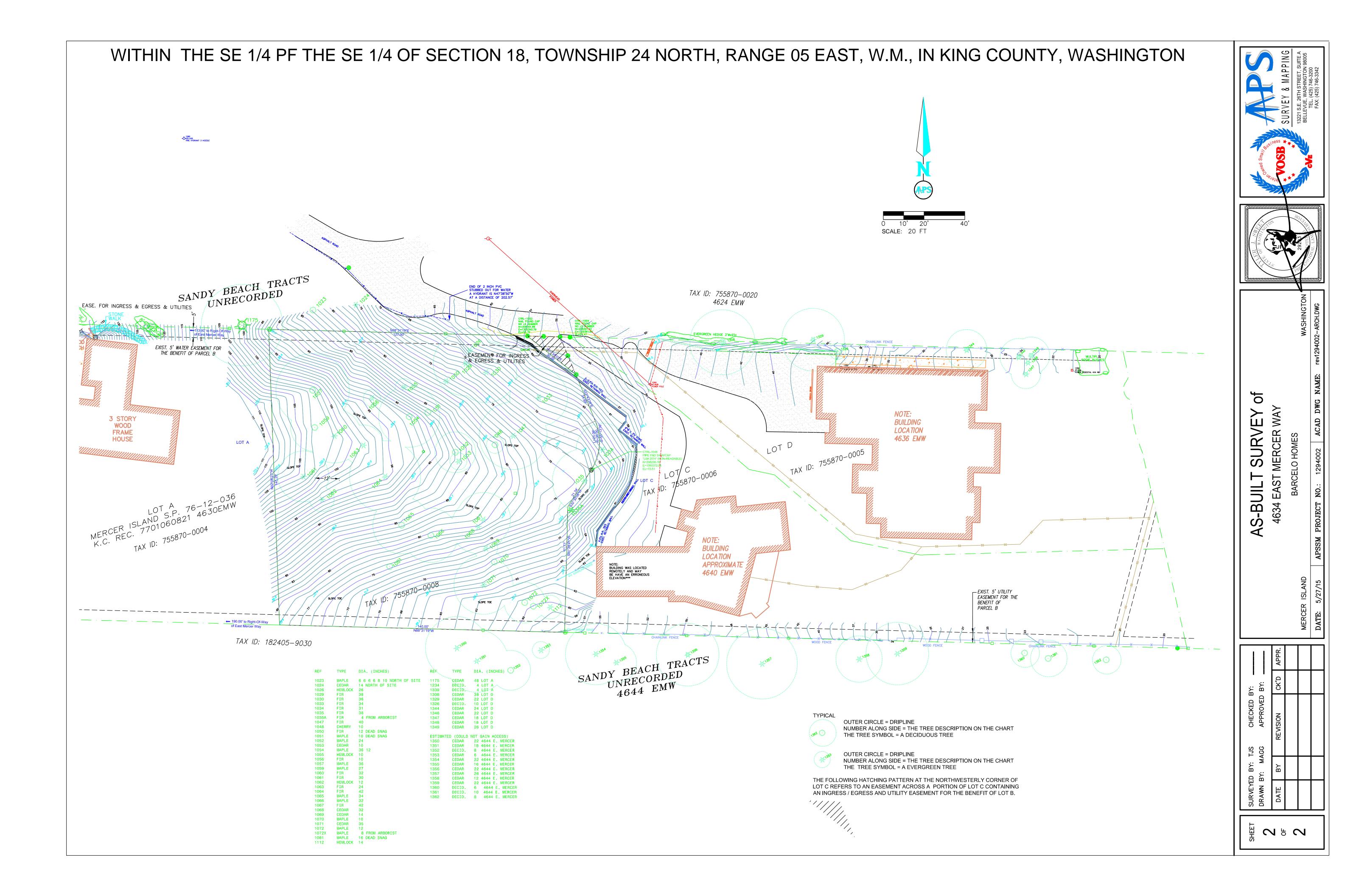
THIS SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF BARCEL HOMES, AND DOES NOT EXTEND TO ANY UNNAMED PARTY WITHOUT EXPRESS RECERTIFICATION BY APS SURVEY & MAPPING, LLC AND/OR THE PROFESSIONAL LAND SURVEYOR NAMED HEREON, NAMING SAID

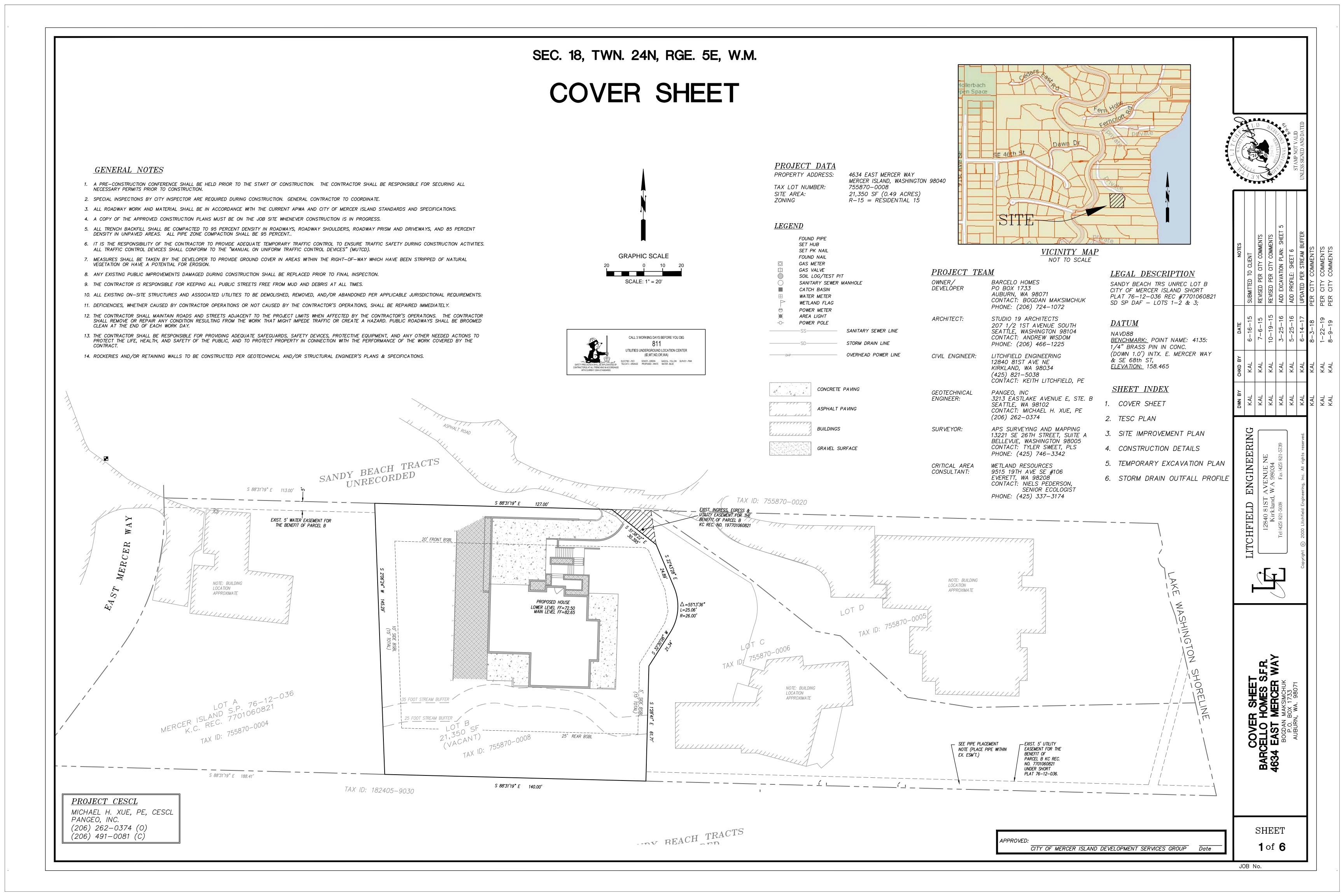


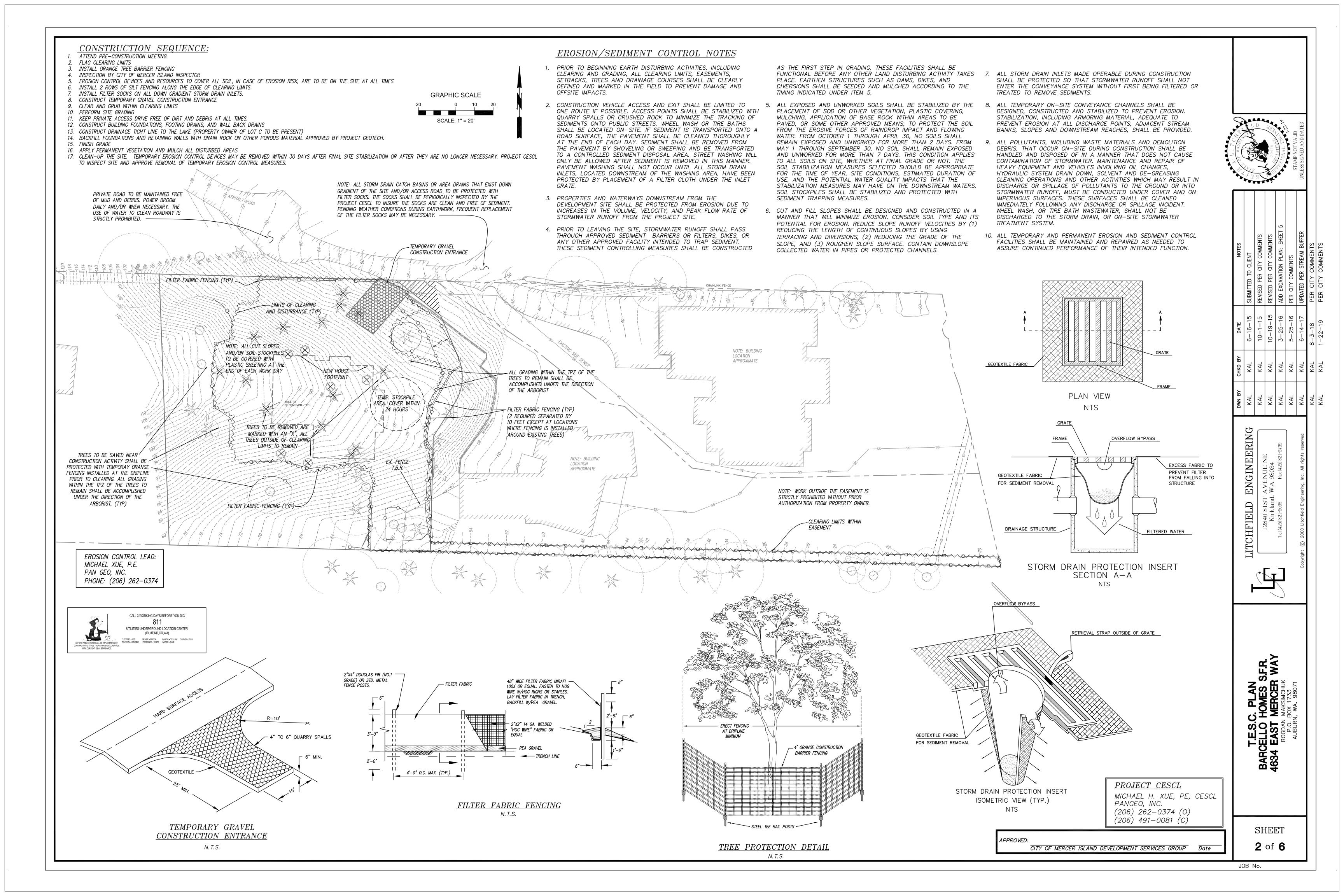


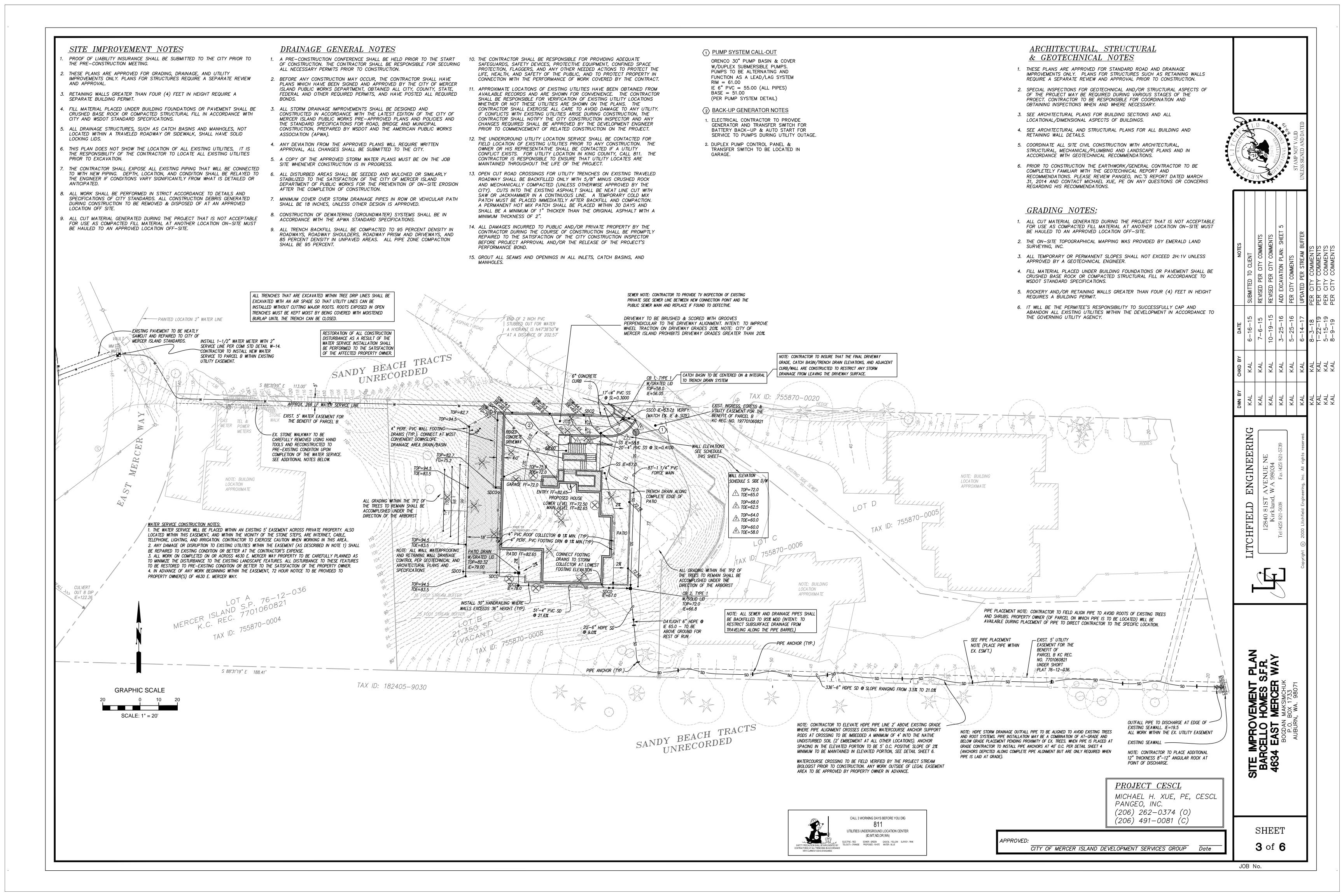
AS-E

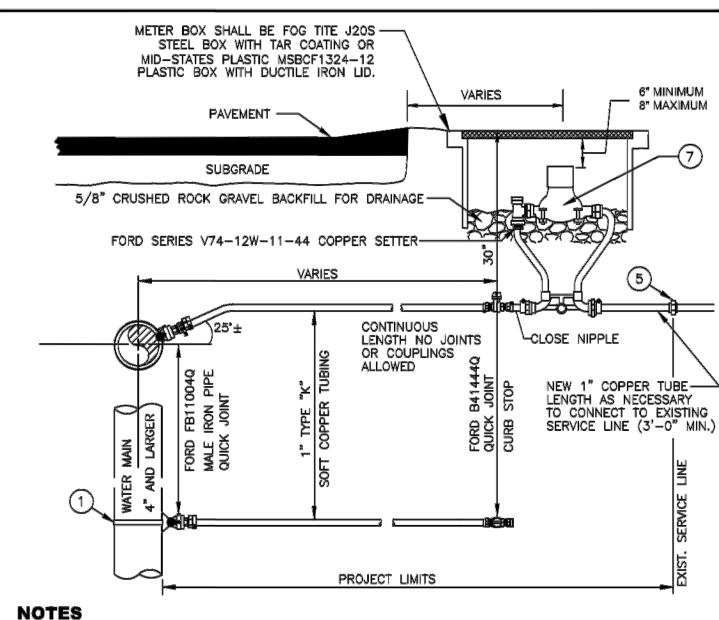
**←** ₽ **⊘** 











- 1. WATER SERVICES SHALL COMPLY
- 2. ON EXISTING WATER MAINS USE OR APPROVED EQUAL. ON NEW D.
- MINIMUM DISTANCE BETWEEN COR STOP AND PIPE ENDS SHALL BE
- 4. PLASTIC METER BOXES SHALL NOT

PAVEMENT OR FINISHED GROUND -

CONCRETE (CL. 4000) IN LANDSCAPED AREAS

SEWER PIPE

GASKETED SPIGOT CAP

RISER PIPE

LENGTH TO FIT

45° BEND

CLEAN OUT DETAIL

N.T.S.

OR SCREW TYPE ----

ASPHALT PATCH AROUND FRAME IN PAVEMENT AREAS

IN SOFT (NON-PARKING) AREAS C.O. CAP

SHALL EXTEND 2" ABOVE FINISH SITE GRADE.

- WHEN METER BOXES ARE INSTALLE EXPANSION MATERIAL SURROUNDING BE PROVIDED.
- 3. WHEN CONNECTING TO EXISTING SERIES WITH C21 SERIES ADAPTERS
  DIAMETER.
- , SERVICE LINE SHALL BE PERPENI WATER MAIN AND STRAIGHT TO W UNLESS OTHERWISE APPROVED BY PROVIDE WINDING SLACK IN THE S BETWEEN THE MAIN AND WATER IN
- 8. WATER METER SUPPLIED BY CITY.
- 9. ALL FITTINGS TO BE BRASS COMP FORD QUICK JOINT OR EQUAL.
- 10. NO SERVICE CONNECTIONS BETWIN AND END OF MAIN. REV DATE

1" TYPE COPPER		TO CON	AS NECESSARY NECT TO EXISTING LINE (3'-0" MIN.)
1 SOFI	-		GE LINE
			EXIST. SERVICE
	ROJECT LIMITS		
NYLON COATED D.I.	N OF LEAD IN DRINKI SADDLE WITH STAINLE R MAIN 6" DIA, OR LA	SS STEEL SINGLE ST	RAP, ROMAC 101NS,
24", ALL HORIZONAL	: 18". MINIMUM DISTAN LLY STAGGERED. THIN ROADWAY, SIDEWA		BETWEEN CORP
LED IN PORTLAND C NG THE PERIMETER I	EMENT CONCRETE PAY OF THE METER BOX S	MENT OR SIDEWALK	C, CONTINUOUS FELT
RS) AND PROVIDE R	AINING FERROUS META PEDUCER AS NECESSAF	L, PROVIDE INSULATI RY TO MATCH EXISTII	NG COUPLING (DB NG SERVICE LINE
DICULAR TO THE ATER METER, 7 CITY ENGINEER. SERVICE LINE METER.	CIT	TY OF MERO STANDARD   WATE	
PRESSION TYPE,	1" WATER	METER INST	ALLATION
VEEN BLOW-OFF	09-26-2017	NO SCALE	W-13
			APPROVED
			741110720

- CAST IRON RING AND COVER

THAN NOMINAL PIPE SIZE

-PVC SLEEVE, DIAMETER

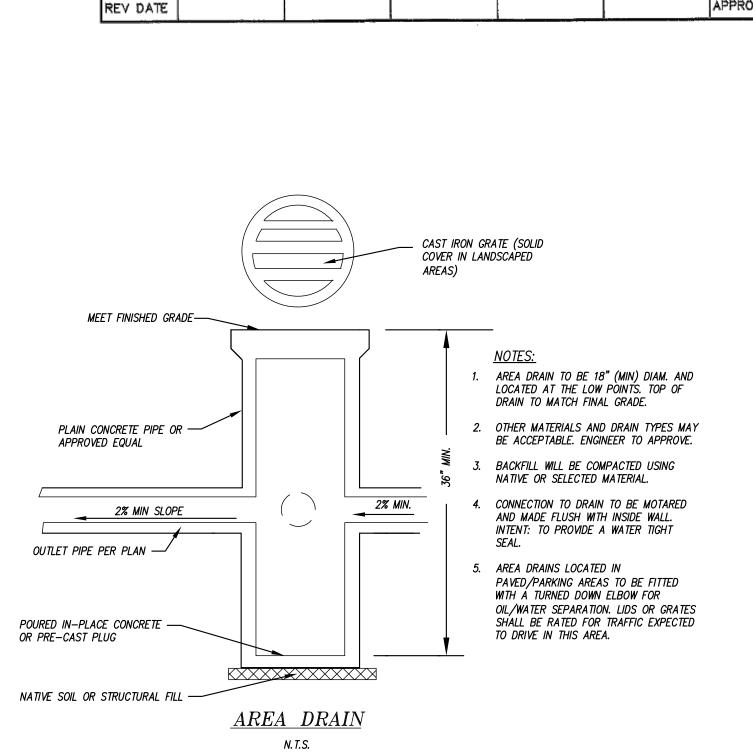
TO MATCH COVER

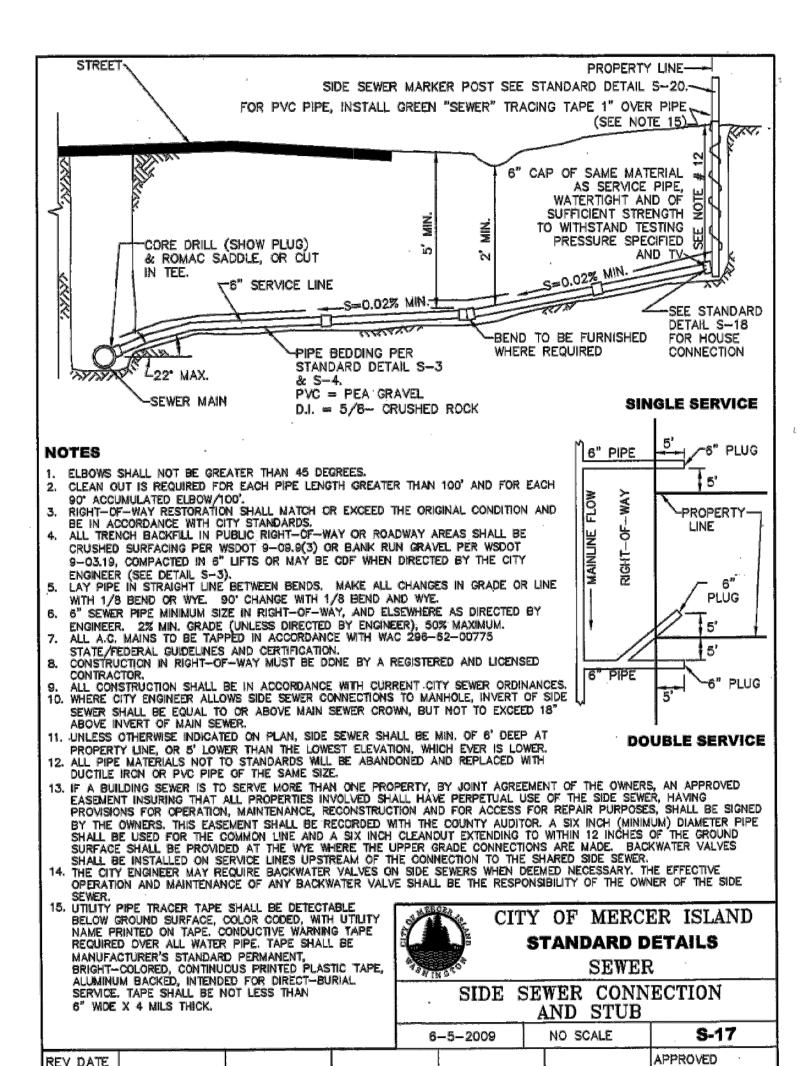
COMPACTED BACKFILL

IF LINE DEAD ENDS, INSTALL

WATERTIGHT CAP

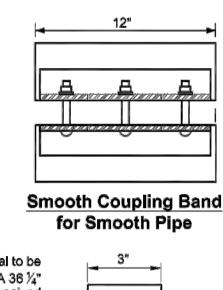
OPENING DIAMETER 4" LARGER





## SECTION 4.2 PIPES, OUTFALLS, AND PUMPS

#### FIGURE 4.2.1.C CORRUGATED METAL PIPE COUPLING AND/OR GENERAL PIPE ANCHOR ASSEMBLY



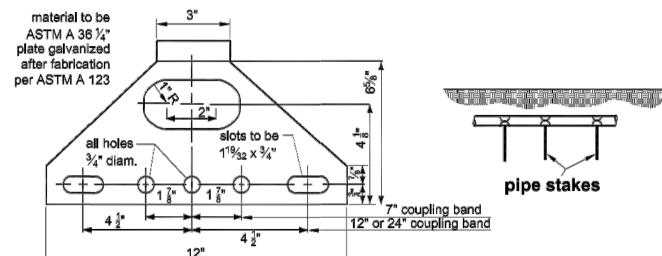


Plate Detail coupling band - collar (2" pipe) material to be ASTM A 36 galvanized after 1 ½" x 6' pipe stakes 4 fabrication per ASTM each side of culvert A 153 flatten to point Anchor Assembly

Corrugated Metal Pipe

 The smooth coupling band shall be used in combination with concrete pipe. Concrete pipe without ball and spigot shall

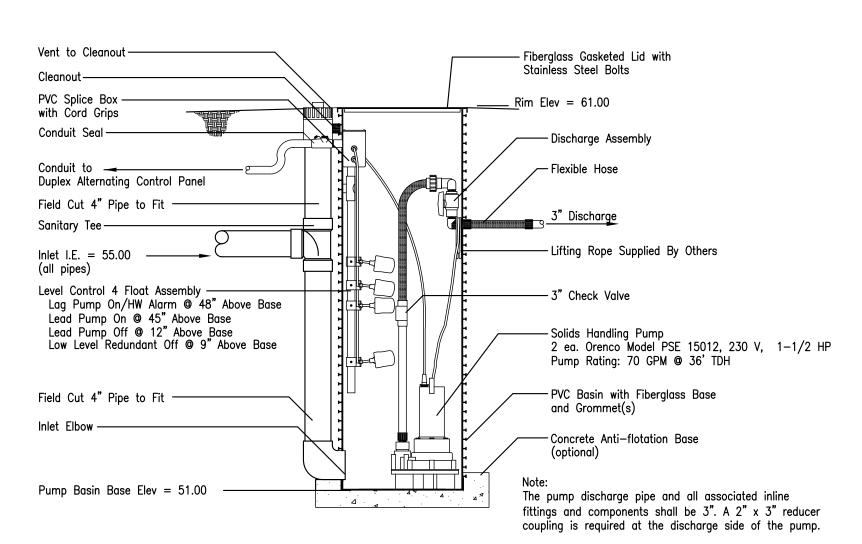
- not be installed on grades in excess of 20%. The first anchor shall be installed on the first section of the lower end of the pipe and remaining anchors evenly spaced throughout the installation. 4. If the pipe being installed has a manhole or
- catch basin on the lower end of the pipe, the first pipe anchor may be eliminated. When CMP is used, the anchors may be attached to the coupling bands used to join the pipe as long as the specified spacing is
- All pipe anchors shall be securely installed before backfilling around the pipe.

### PUMP SYSTEM SPECIFICATIONS:

1. PUMP BASIN, CONTROL PANEL, PUMPS, AND ALL ASSOCIATED COMPONENTS SHALL BE BY ORENCO SYSTEMS, INC. TECHNICAL AND/OR INSTALLATION SUPPORT PHONE NUMBER: TRISTIAN BOUNDS 800-348-9843, EXT 236. ORDER FROM HD FÓWLER: KEVIN GABRIEL 425-746-8400.

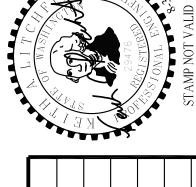
2. PUMP BASIN TO BE 30" DIAMETER WITH LID MOUNTED WITH STAINLESS STEEL SCREWS.

3. PUMPS TO BE SINGLE PHASE, 230 VOLT, MODEL PSE 15012; CONTROL PANEL TO BE MODEL DAX 2 ETMCT WITH ELAPSED TIME METER AND PUMP COUNTER; FLOAT SWITCHES TO BE MF4A-YP,B,R,W (4 FLOATS REQ'D)



30" PUMP BASIN DETAIL

APPROVED: CITY OF MERCER ISLAND DEVELOPMENT SERVICES GROUP



Carrey.

NOTES	SUBMITTED TO CLIENT	REVISED PE CITY COMMENTS	ADD EXCAVATION PLAN: SHEET 5	02-09-18 REVISED SITE PLAN	08-03-18 PER CITY COMMENTS	
DATE	6-16-15	10-19-15	3-25-16	02-09-18	08-03-18	
снкр ву	KAL	KAL	KAL	KAL	KAL	
DWN BY	KAL	KAL	KAL	KAL	KAL	

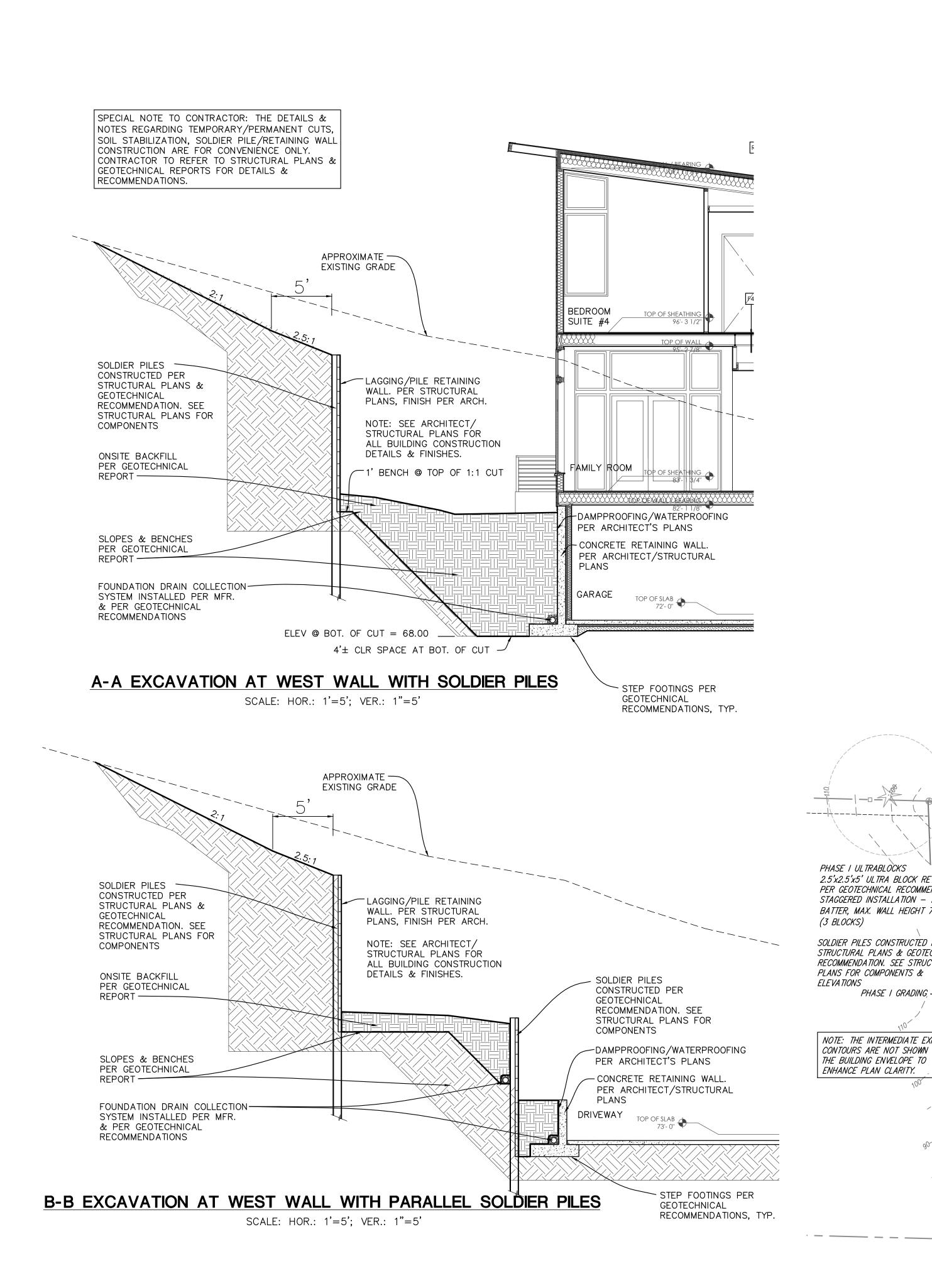
ENGINEERI AVE WA LITCHFIELD



CONSTRUCT BARCELLO I 4634 EAST BOGDAN

SHEET

**4** of **6** 



CALL 3 WORKING DAYS BEFORE YOU DIG

UTILITIES UNDERGROUND LOCATION CENTER

#### SPECIAL GEOTECHNICAL ULTRABLOCK NOTES

GEOTECHNICAL RECOMMENDATIONS FOR TEMPORARY EXCAVATIONS AND SHORING USING 1. THE MAXIMUM WALL HEIGHT OF STAGGERED BLOCKS IS 71/2 FEET (I.E., 3 BLOCKS IN 2. THE VERTICAL WALL FACE IS NO STEEPER THAN 1H (HORIZONTAL): 8V (VERTICAL);
3. THE SUBGRADE AT THE BASE OF THE ULTRABLOCK BLOCKS SHALL CONSIST OF DENSE NATIVE SOIL OR LEVELING CRUSHED ROCK PLACED ON DENSE SOIL; A IIVE SOIL OR LEVELING CRUSHED ROCK PLACED ON DENSE SOIL;

4. NO EXCAVATION SHALL BE MADE UNTIL BLOCKS ARE AVAILABLE ON SITE;

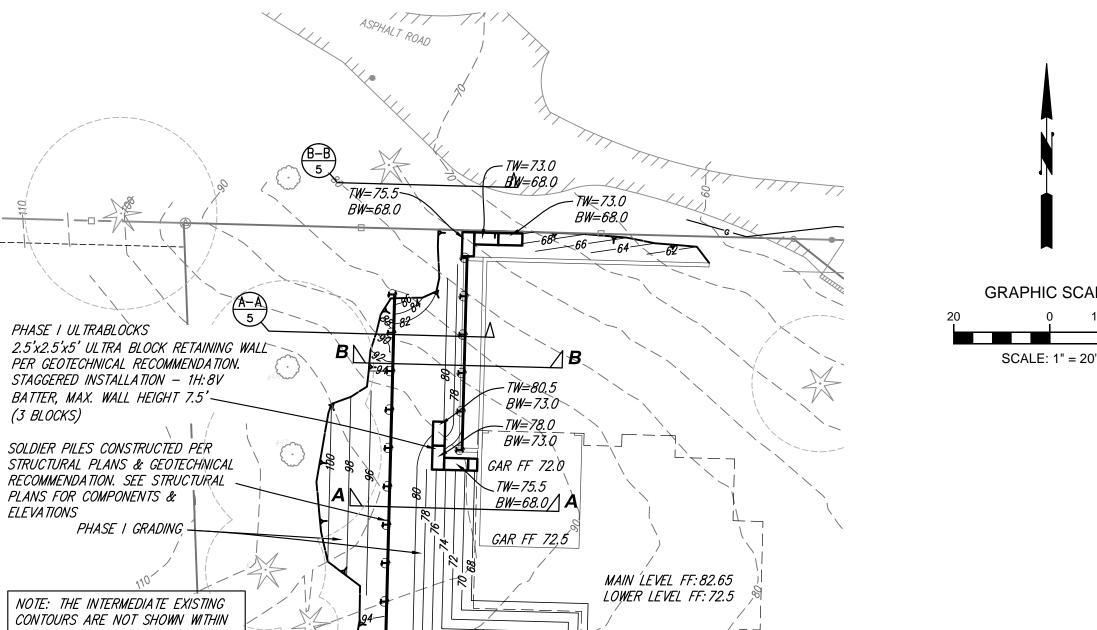
5. THE WDTH OF UNSUPPORTED CUT FACE FOR BLOCK PLACEMENT SHALL BE LIMITED TO NO MORE THAN ABOUT 10 FEET AT ANY GIVEN TIME;

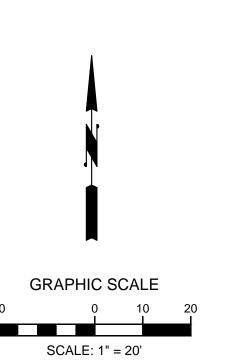
6. BLOCKS SHALL BE PLACED IMMEDIATELY AFTER THE CUT IS MADE, OTHERWISE THE CUT FACE SHALL BE BUTTRESSED WITH ON-SITE SOILS THE BLOCKS CAN BE PLACED; 7. ANY VOIDS BEHIND BLOCKS SHALL BE BACKFILLED WITH GRAVEL IMMEDIATELY AFTER THE BLOCK WALL ARE INSTALLED; AND 8. PANGEO SHALL PROVIDE FULL TIME OBSERVATION DURING BLOCK WALL INSTALLATION.

GEOTECHNICAL ENGINEER TO REVIEW THESE PLANS AND COORDINATE WITH CONTRACTOR ON ALL EXCAVATION, FOUNDATION DRAINAGE, RETAINING WALLS, SHEET PILING, SHORING, ULTRABLOCK, BACKFILLING AND OTHER EARTHWORK NECESSARY TO CONSTRUCT THIS

THIS PROJECT REQUIRES STAGED FOUNDATION CONSTRUCTION. CONTRACTOR TO WORK WITH GEOTECHNICAL ENGINEER TO DETERMINE THE APPROPRIATE LIMITS AND PROCESSES FOR SUCCESSIVE STAGES OF THE CONSTRUCTION.

CONTRACTOR TO COORDINATE WITH ARCHITECT & STRUCTURAL ENGINEER ON ALL PENETRATIONS THROUGH RETAINING WALLS, PROVIDING SLEEVES WHERE SHOWN OR





EEE. ENGIN LITCHFIELD

APORARY EXCAVATION I BARCELLO HOMES S.F.R. 4634 EAST MERCER WAY

SHEET **5** of **6** 

APPROVED:

CITY OF MERCER ISLAND DEVELOPMENT SERVICES GROUP Date

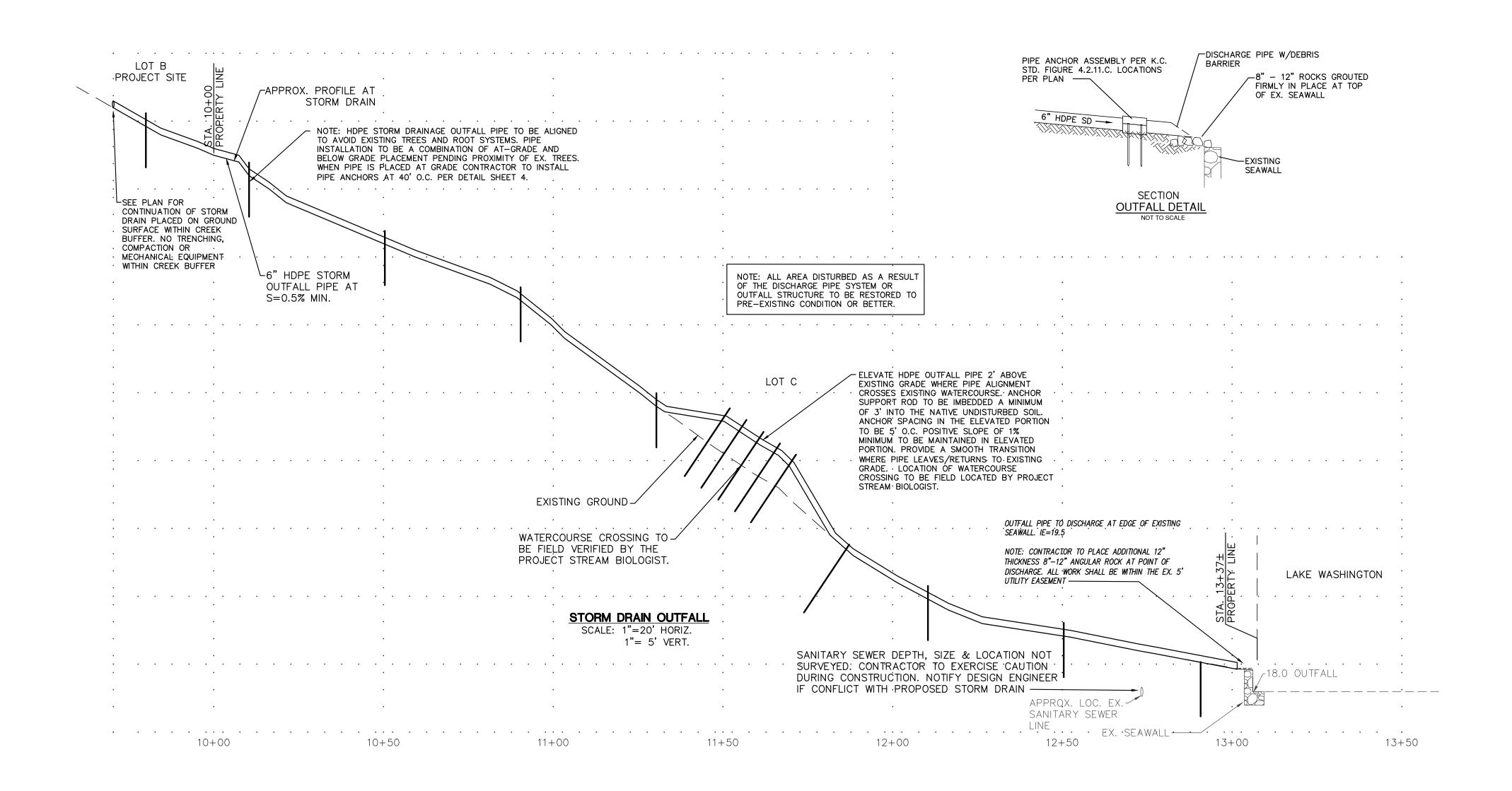
PROJECT CESCL

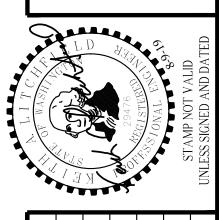
(206) 262-0374 (0)

(206) 491–0081 (C)

PANGEO, INC.

MICHAEL H. XUE, PE, CESCL





ITCHFIELD ENGINEERING KAL	KAL 19940 91ST AVENITE NE	Kirkland, WA 98034	Tel (425) 821-5038 Fax (425) 821-5739 KAL	KAL	nt © 2000 Litchfield Engineering, Inc. All rights reserved.	
. KAL	. KAL	. KAL	. KAL	. KAL	. KAL	
5-25-16	08-03-18	1–22–19	4-16-19	7-23-19	8-9-19	
ADD PROFILE: SHEET 6	08-03-18 PER CITY COMMENTS	PER CITY COMMENTS	PER CITY REVIEW	PER CITY COMMENTS	REVISED PER CITY COMMENTS	

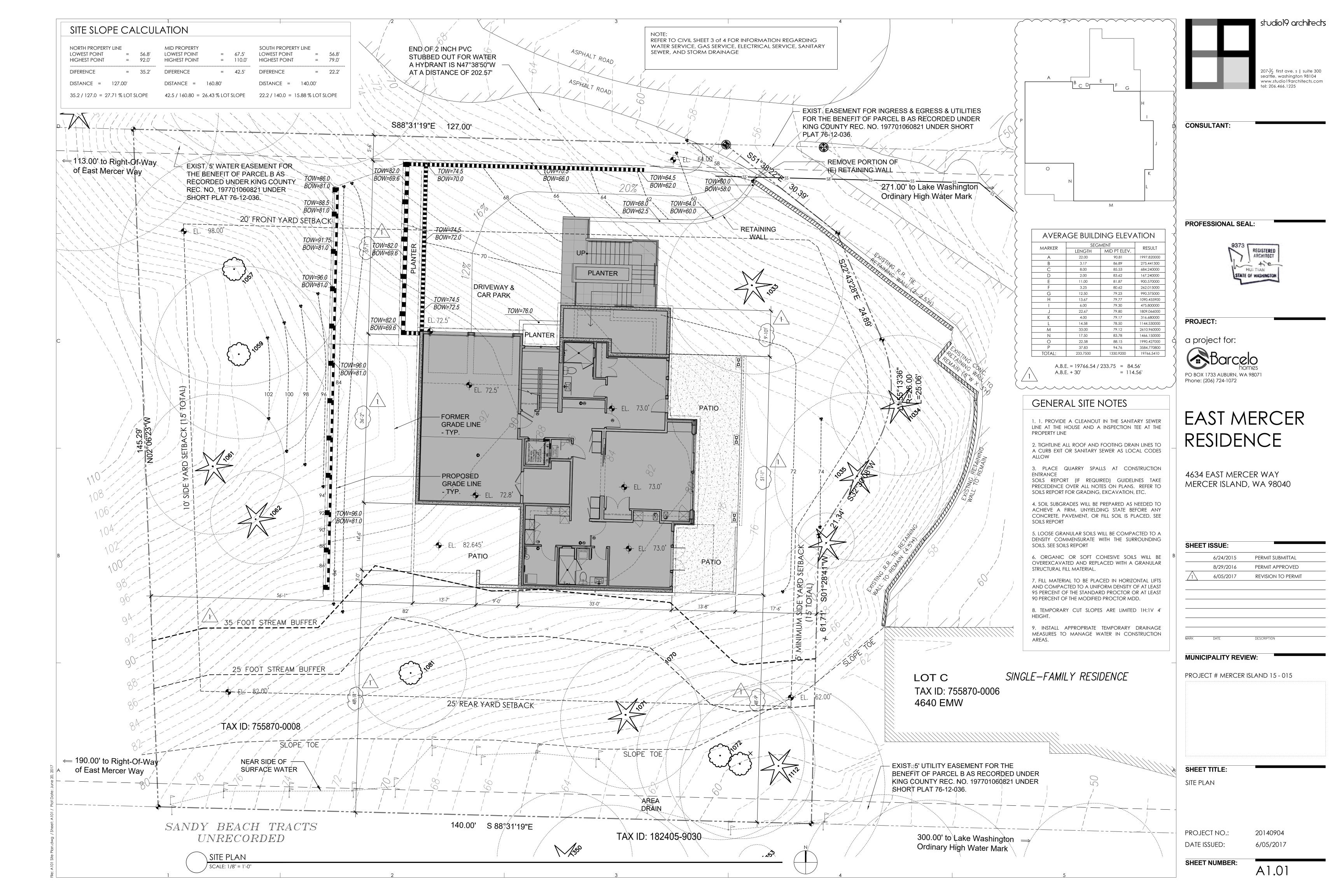
BARCELLO HOMES S.F.R.
4634 EAST MERCER WAY

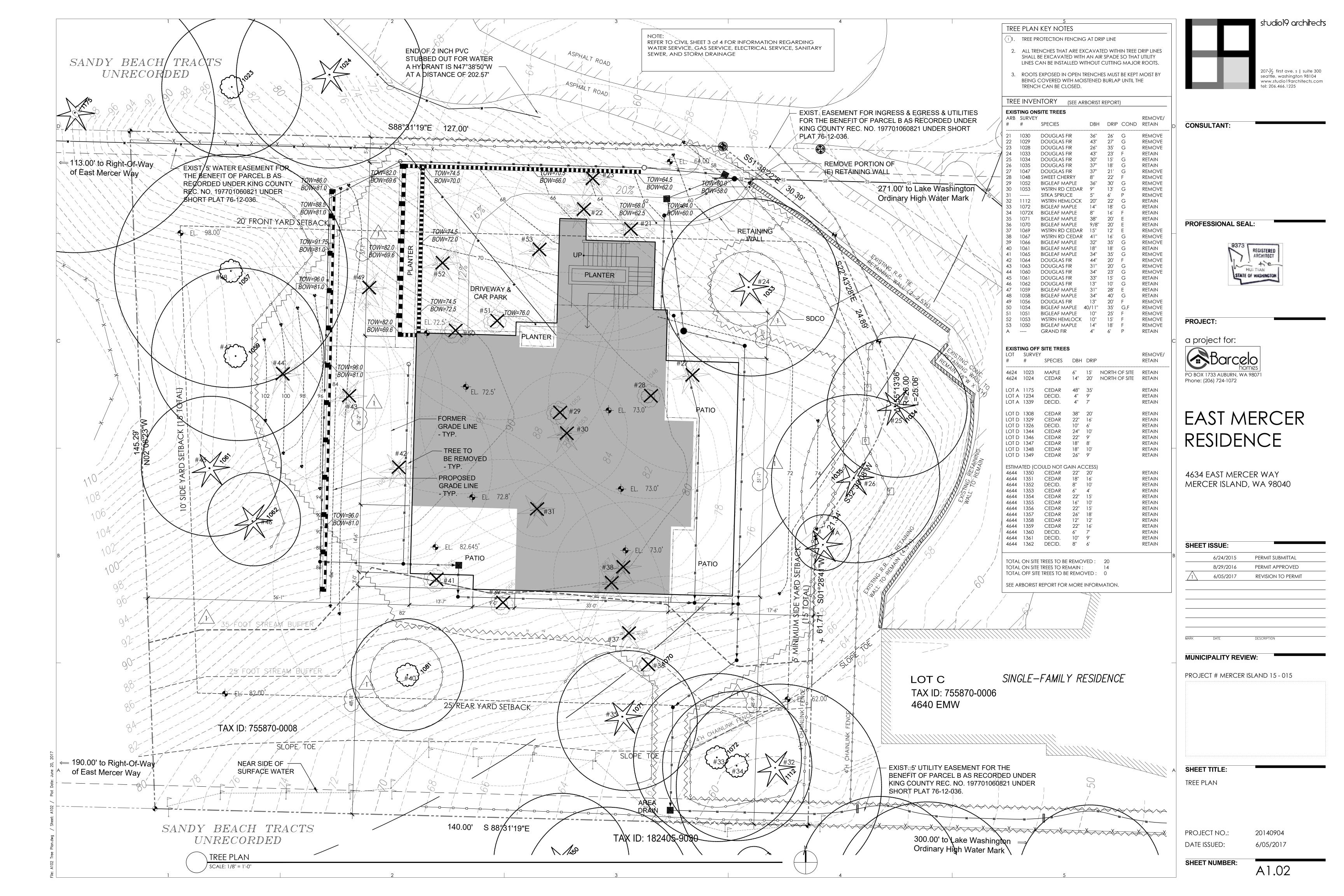
SHEET

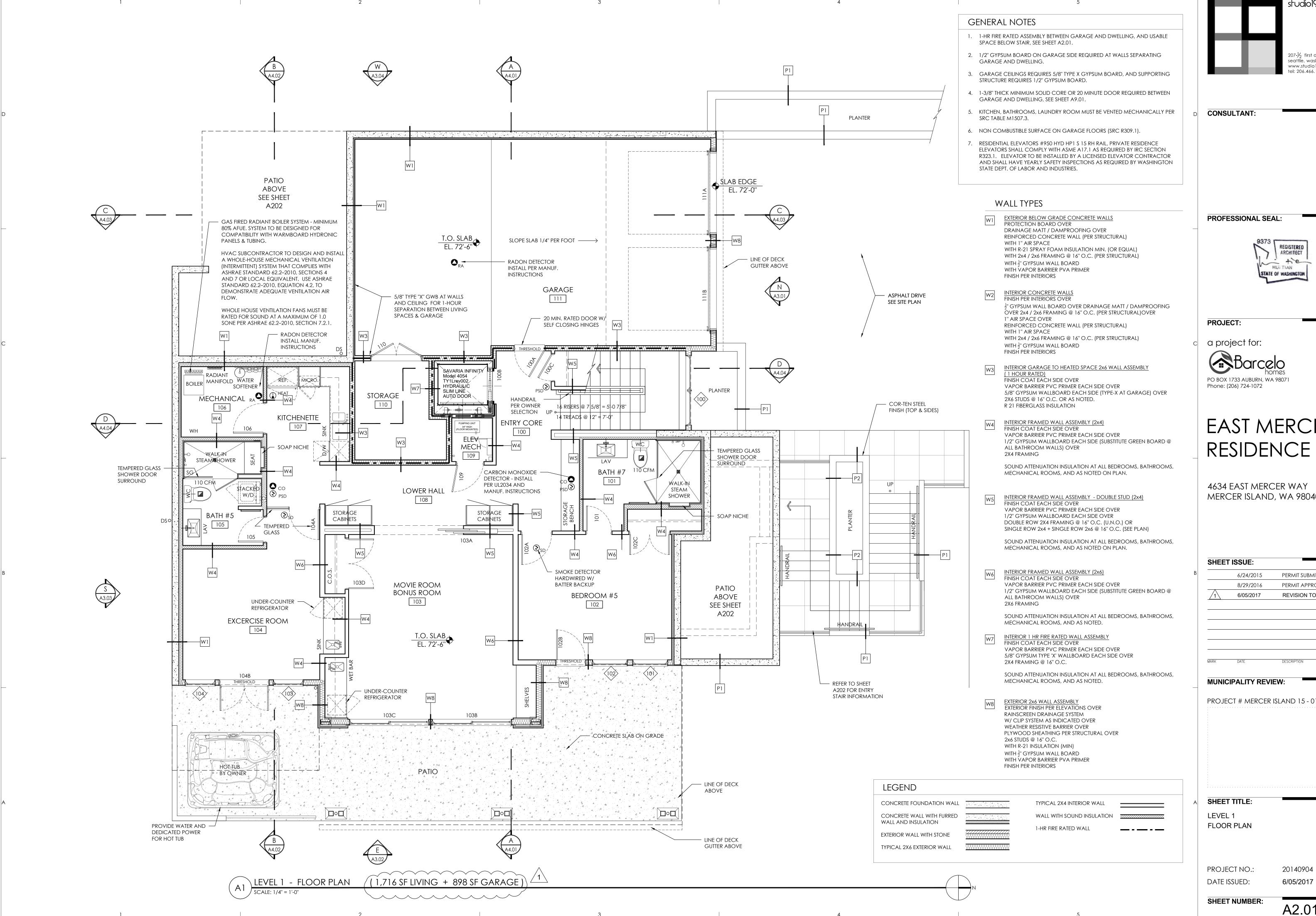
6 of 6

APPROVED:

CITY OF MERCER ISLAND DEVELOPMENT SERVICES GROUP Date







studio19 architects  $207-\frac{1}{2}$  first ave. s | suite 300 seattle, washington 98104 www.studio19architects.com el: 206.466.1225



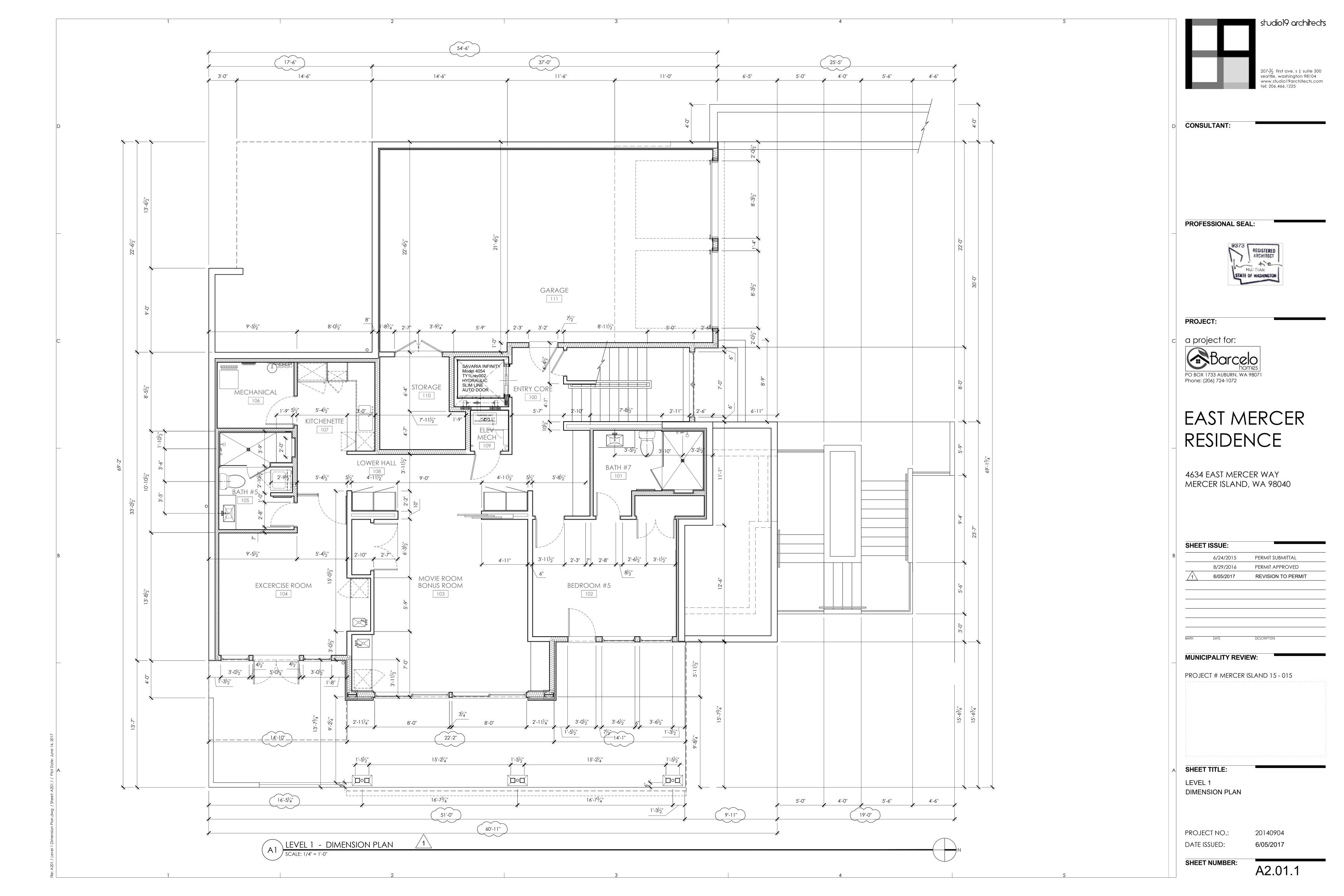
## EAST MERCER RESIDENCE

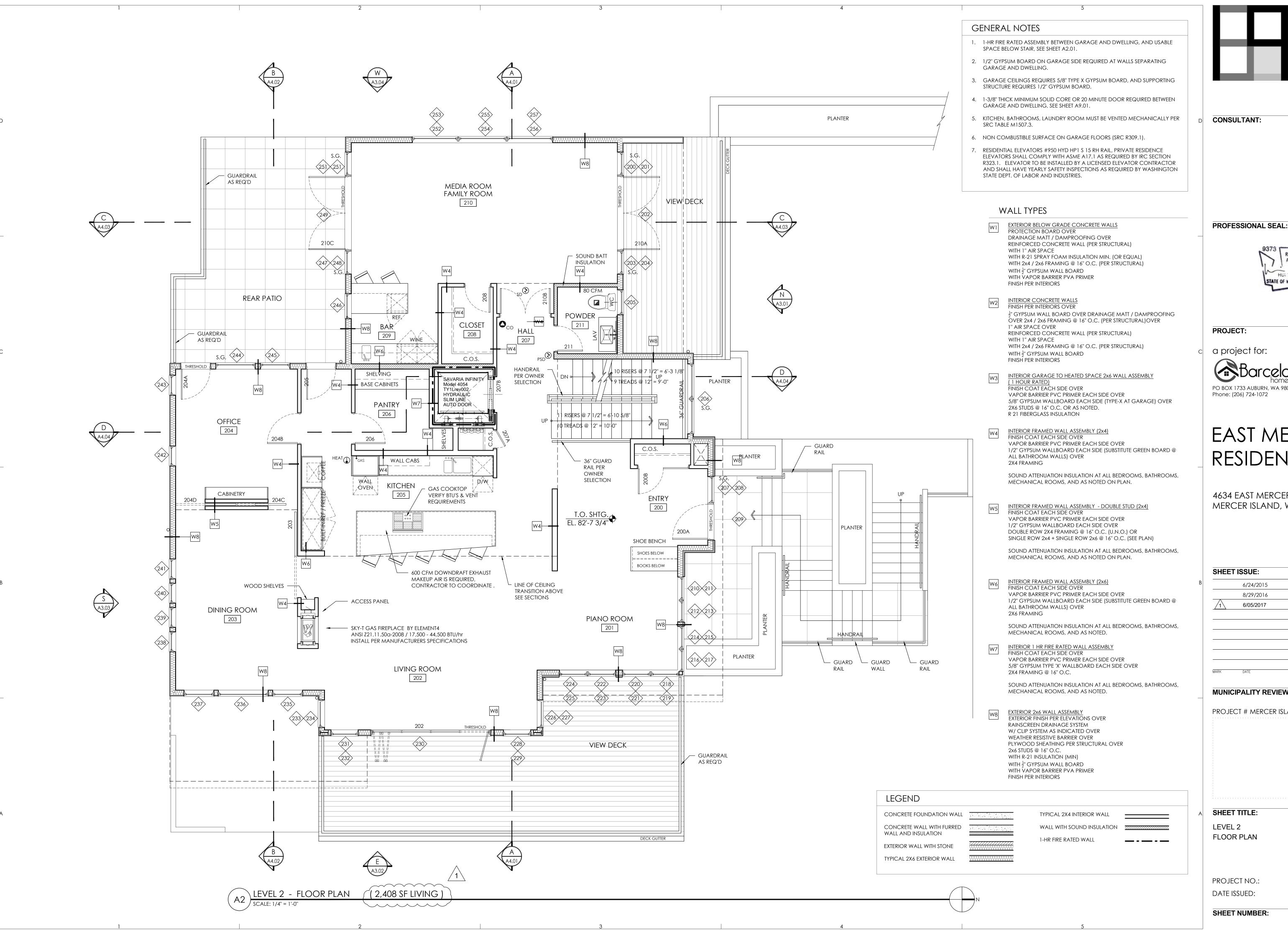
MERCER ISLAND, WA 98040

	6/24/2015	PERMIT SUBMITTAL
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1\	6/05/2017	REVISION TO PERMIT
•		

PROJECT # MERCER ISLAND 15 - 015

A2.01





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## EAST MERCER RESIDENCE

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SHEET	ISSUE:	
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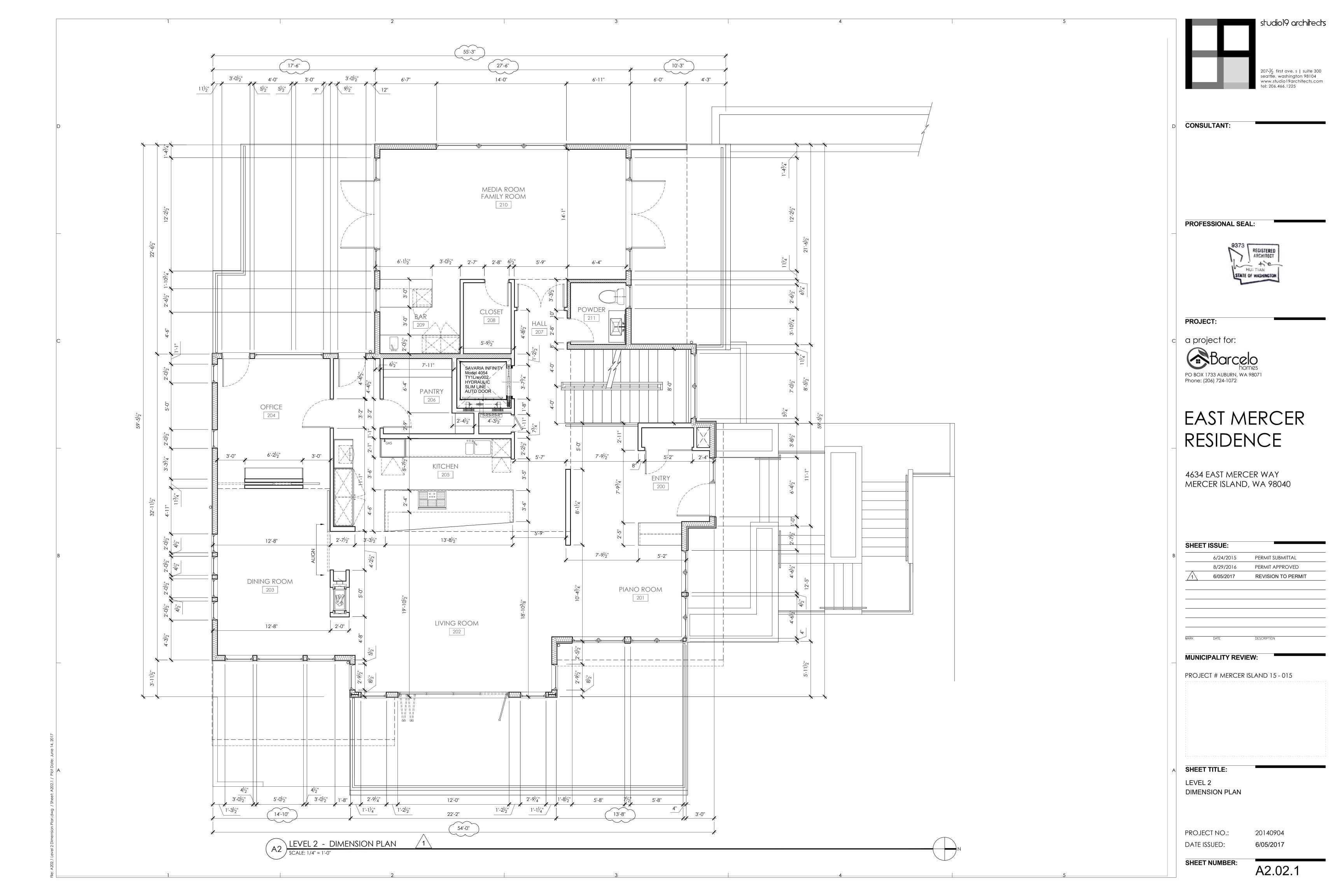
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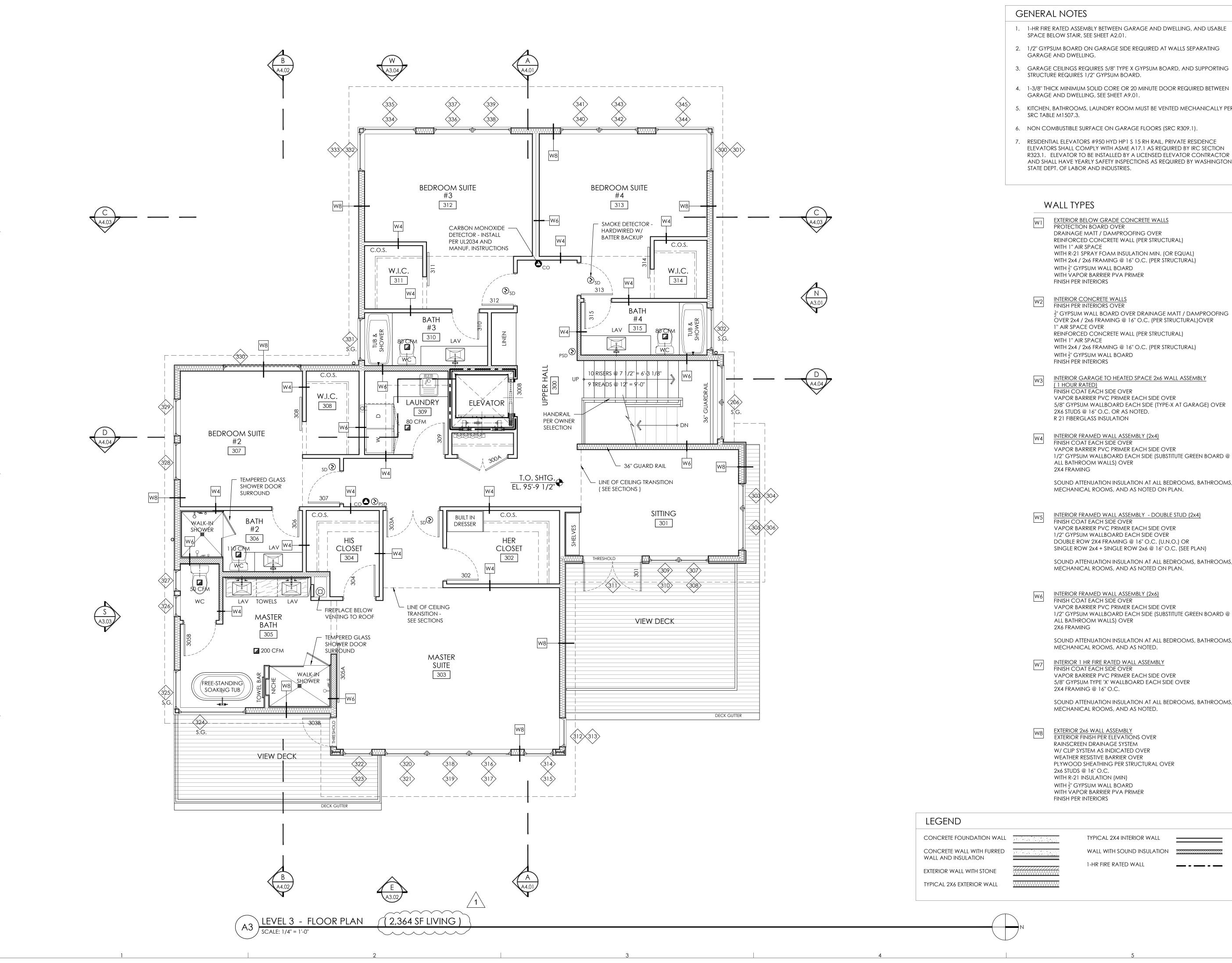
PROJECT # MERCER ISLAND 15 - 015

A2.02

20140904

6/05/2017





#### GENERAL NOTES

- 1. 1-HR FIRE RATED ASSEMBLY BETWEEN GARAGE AND DWELLING, AND USABLE SPACE BELOW STAIR, SEE SHEET A2.01.
- 2. 1/2" GYPSUM BOARD ON GARAGE SIDE REQUIRED AT WALLS SEPARATING GARAGE AND DWELLING.
- STRUCTURE REQUIRES 1/2" GYPSUM BOARD.
- GARAGE AND DWELLING, SEE SHEET A9.01.
- 5. KITCHEN, BATHROOMS, LAUNDRY ROOM MUST BE VENTED MECHANICALLY PER SRC TABLE M1507.3.
- 6. NON COMBUSTIBLE SURFACE ON GARAGE FLOORS (SRC R309.1).
- RESIDENTIAL ELEVATORS #950 HYD HP1 S 15 RH RAIL, PRIVATE RESIDENCE ELEVATORS SHALL COMPLY WITH ASME A17.1 AS REQUIRED BY IRC SECTION R323.1. ELEVATOR TO BE INSTALLED BY A LICENSED ELEVATOR CONTRACTOR AND SHALL HAVE YEARLY SAFETY INSPECTIONS AS REQUIRED BY WASHINGTON STATE DEPT. OF LABOR AND INDUSTRIES.

### **WALL TYPES**

- EXTERIOR BELOW GRADE CONCRETE WALLS PROTECTION BOARD OVER DRAINAGE MATT / DAMPROOFING OVER REINFORCED CONCRETE WALL (PER STRUCTURAL) WITH 1" AIR SPACE WITH R-21 SPRAY FOAM INSULATION MIN. (OR EQUAL) WITH 2x4 / 2x6 FRAMING @ 16" O.C. (PER STRUCTURAL) WITH 1" GYPSUM WALL BOARD WITH VAPOR BARRIER PVA PRIMER FINISH PER INTERIORS
- FINISH PER INTERIORS OVER 1" GYPSUM WALL BOARD OVER DRAINAGE MATT / DAMPROOFING OVER 2x4 / 2x6 FRAMING @ 16" O.C. (PER STRUCTURAL)OVER 1" AIR SPACE OVER REINFORCED CONCRETE WALL (PER STRUCTURAL) WITH 1" AIR SPACE WITH 2x4 / 2x6 FRAMING @ 16" O.C. (PER STRUCTURAL) WITH  $\frac{1}{2}$ " GYPSUM WALL BOARD FINISH PER INTERIORS
- INTERIOR GARAGE TO HEATED SPACE 2x6 WALL ASSEMBLY 1 HOUR RATED) FINISH COAT EACH SIDE OVER VAPOR BARRIER PVC PRIMER EACH SIDE OVER 5/8" GYPSUM WALLBOARD EACH SIDE (TYPE-X AT GARAGE) OVER 2X6 STUDS @ 16" O.C. OR AS NOTED. R 21 FIBERGLASS INSULATION
- INTERIOR FRAMED WALL ASSEMBLY (2x4) FINISH COAT EACH SIDE OVER VAPOR BARRIER PVC PRIMER EACH SIDE OVER 1/2" GYPSUM WALLBOARD EACH SIDE (SUBSTITUTE GREEN BOARD @ ALL BATHROOM WALLS) OVER 2X4 FRAMING
- SOUND ATTENUATION INSULATION AT ALL BEDROOMS, BATHROOMS, MECHANICAL ROOMS, AND AS NOTED ON PLAN.
- INTERIOR FRAMED WALL ASSEMBLY DOUBLE STUD (2x4) FINISH COAT EACH SIDE OVER VAPOR BARRIER PVC PRIMER EACH SIDE OVER 1/2" GYPSUM WALLBOARD EACH SIDE OVER DOUBLE ROW 2X4 FRAMING @ 16" O.C. (U.N.O.) OR SINGLE ROW 2x4 + SINGLE ROW 2x6 @ 16" O.C. (SEE PLAN)
  - SOUND ATTENUATION INSULATION AT ALL BEDROOMS, BATHROOMS, MECHANICAL ROOMS, AND AS NOTED ON PLAN.
- INTERIOR FRAMED WALL ASSEMBLY (2x6) FINISH COAT EACH SIDE OVER VAPOR BARRIER PVC PRIMER EACH SIDE OVER 1/2" GYPSUM WALLBOARD EACH SIDE (SUBSTITUTE GREEN BOARD @ ALL BATHROOM WALLS) OVER 2X6 FRAMING
- SOUND ATTENUATION INSULATION AT ALL BEDROOMS, BATHROOMS, MECHANICAL ROOMS, AND AS NOTED.
- INTERIOR 1 HR FIRE RATED WALL ASSEMBLY FINISH COAT EACH SIDE OVER VAPOR BARRIER PVC PRIMER EACH SIDE OVER 5/8" GYPSUM TYPE 'X' WALLBOARD EACH SIDE OVER 2X4 FRAMING @ 16" O.C.
  - SOUND ATTENUATION INSULATION AT ALL BEDROOMS, BATHROOMS, MECHANICAL ROOMS, AND AS NOTED.
- EXTERIOR 2x6 WALL ASSEMBLY EXTERIOR FINISH PER ELEVATIONS OVER RAINSCREEN DRAINAGE SYSTEM W/ CLIP SYSTEM AS INDICATED OVER WEATHER RESISTIVE BARRIER OVER PLYWOOD SHEATHING PER STRUCTURAL OVER 2x6 STUDS @ 16" O.C. WITH R-21 INSULATION (MIN) WITH ½" GYPSUM WALL BOARD WITH VAPOR BARRIER PVA PRIMER FINISH PER INTERIORS

LEGEND		
CONCRETE FOUNDATION WALL	TYPICAL 2X4 INTERIOR WALL	
CONCRETE WALL WITH FURRED WALL AND INSULATION	WALL WITH SOUND INSULATION	<u></u>

1-HR FIRE RATED WALL 

> PROJECT NO.: 20140904 DATE ISSUED: 6/05/2017

> SHEET NUMBER:

A2.03



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## EAST MERCER RESIDENCE

4634 EAST MERCER WAY MERCER ISLAND, WA 98040

SHEET ISSUE: 6/24/2015 PERMIT SUBMITTAL 8/29/2016 PERMIT APPROVED 6/05/2017 REVISION TO PERMIT

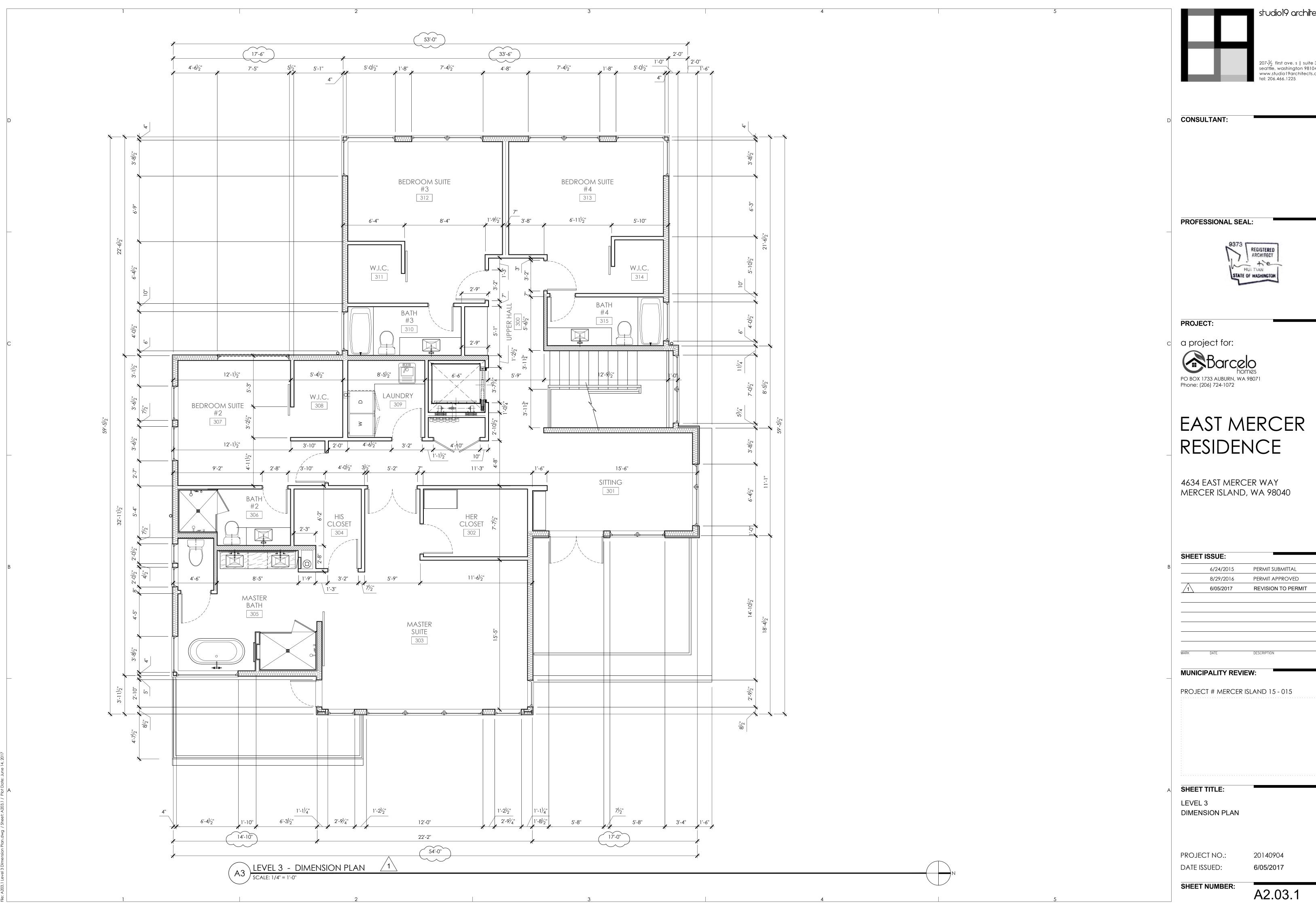
PROJECT # MERCER ISLAND 15 - 015

MUNICIPALITY REVIEW:

SHEET TITLE:

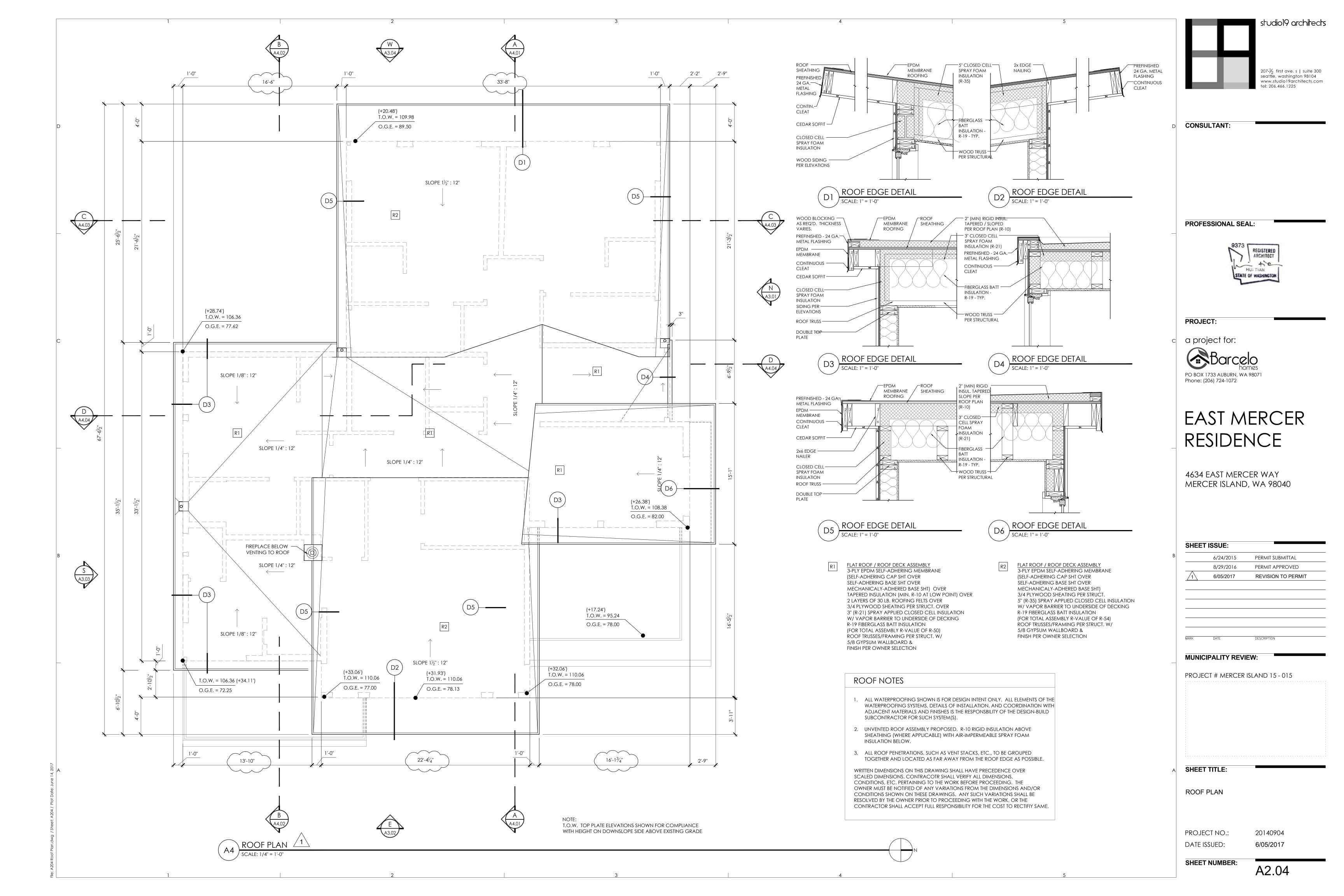
FLOOR PLAN

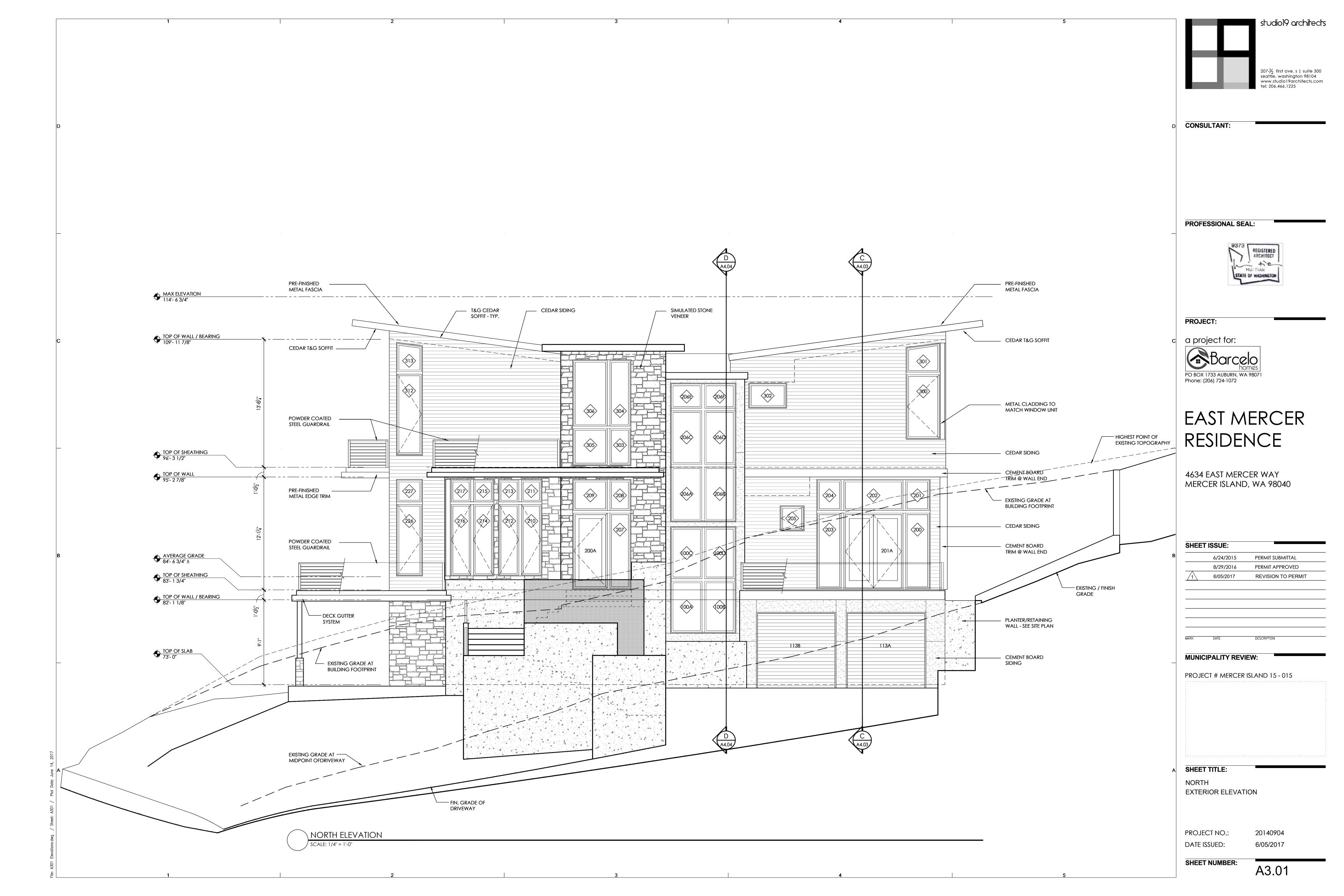
LEVEL 3

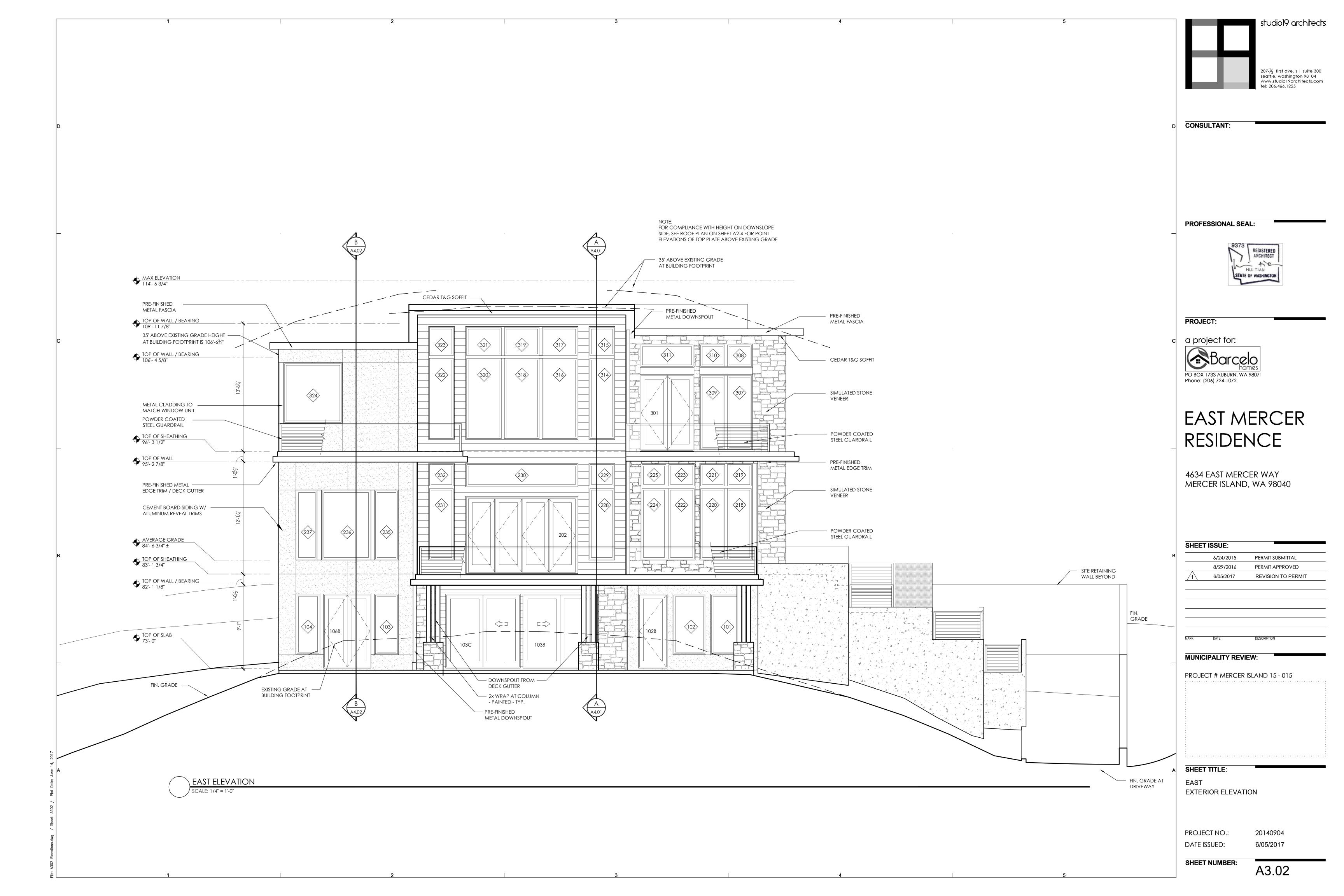


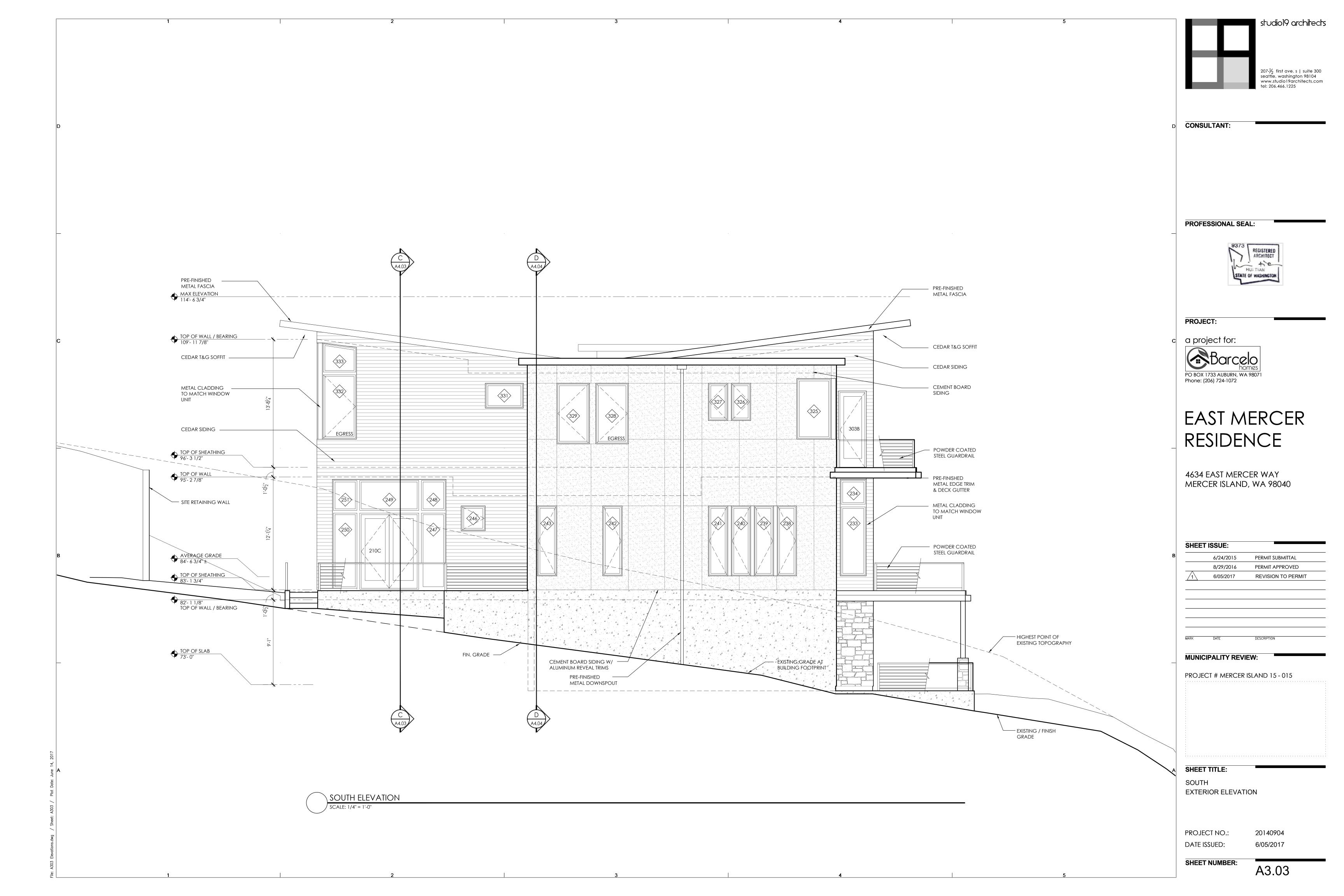
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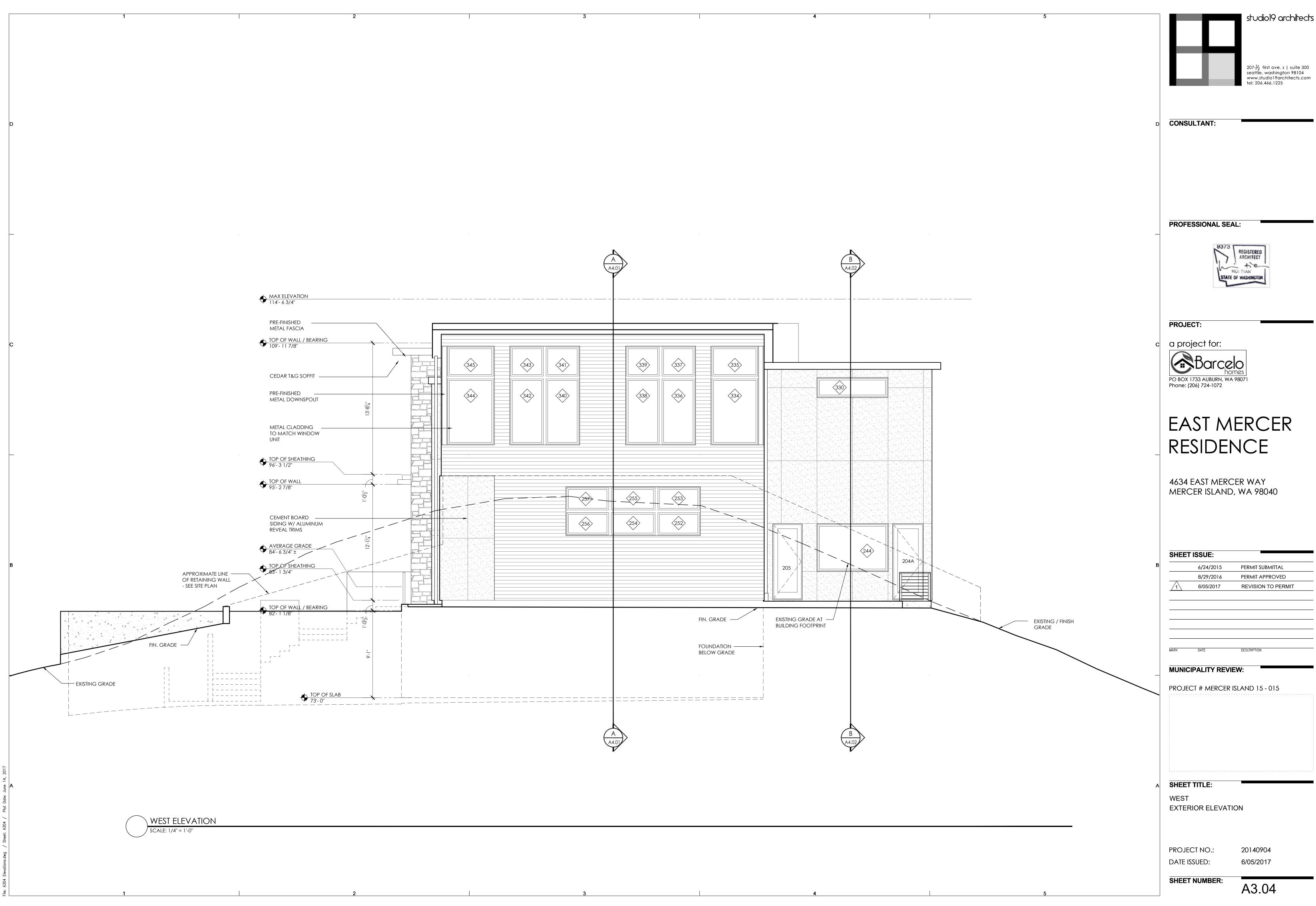
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8/2	9/2016	PERMIT APPROVED
1 6/0	5/2017	REVISION TO PERMIT



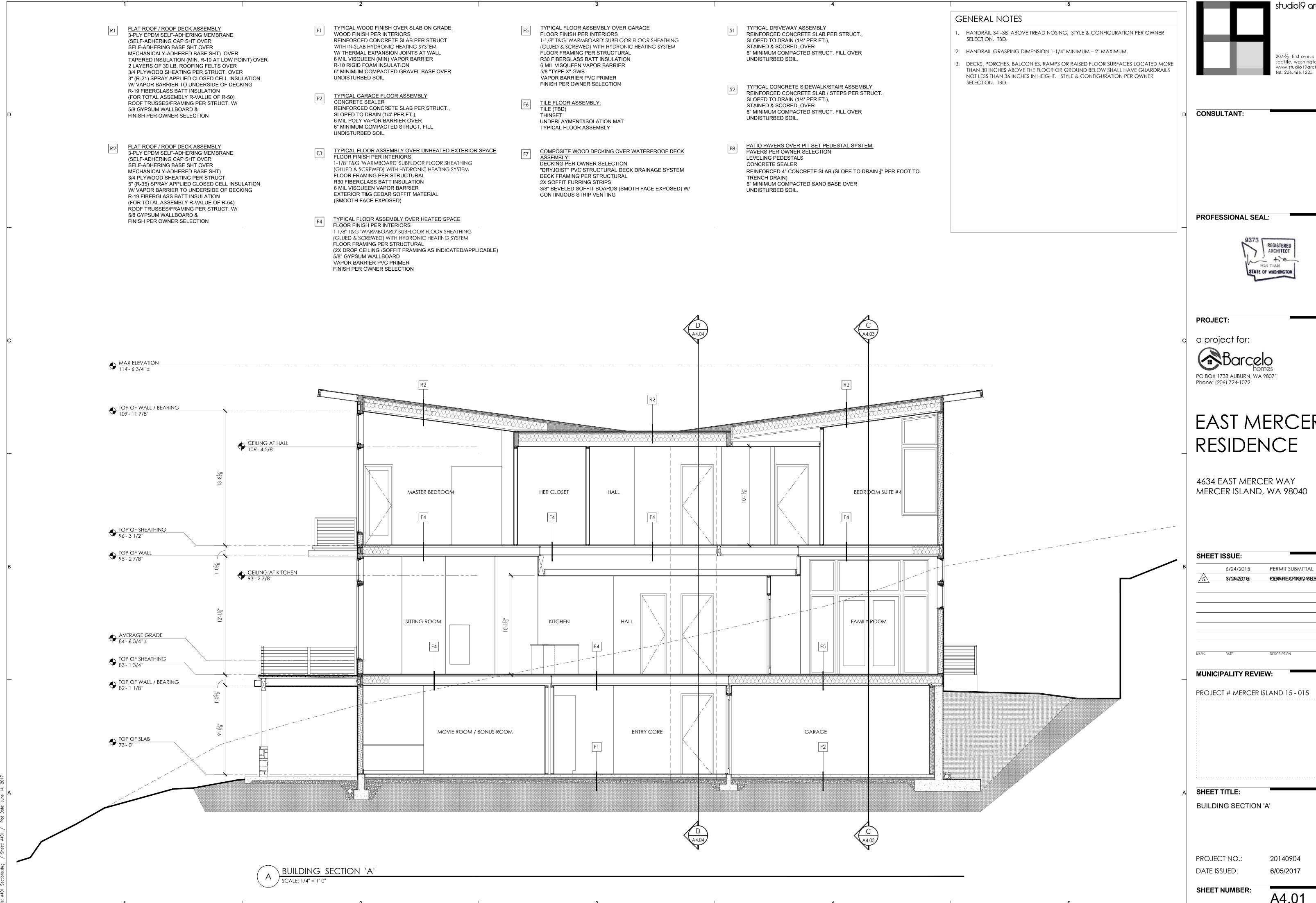








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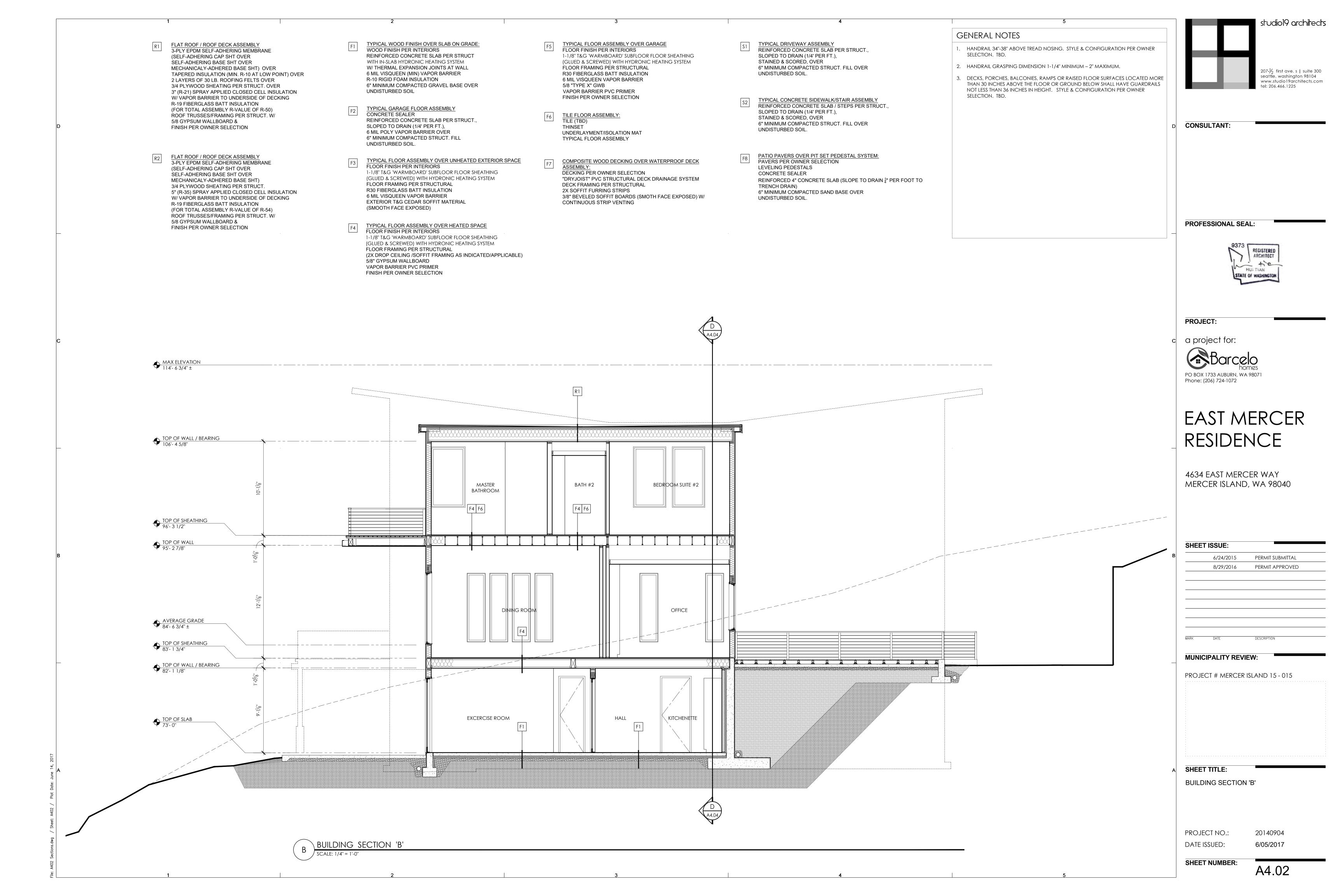
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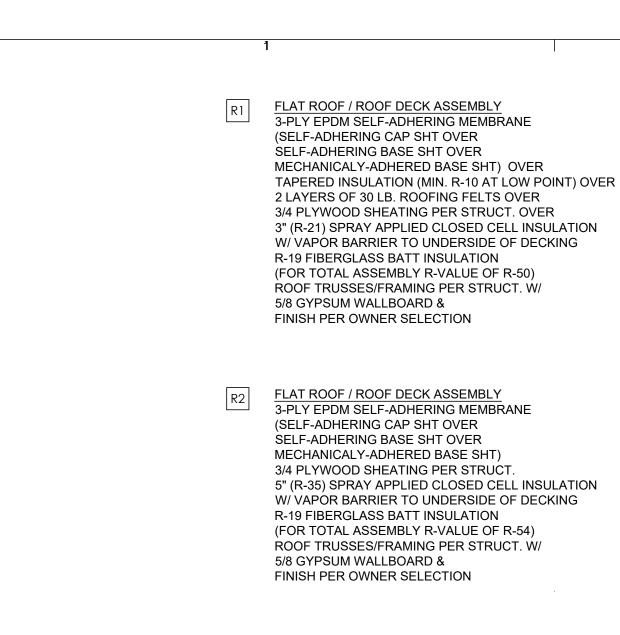
4634 EAST MERCER WAY

	6/24/2015	PERMIT SUBMITTAL
5	8/24/200166	EERRECTEQD SEBMITTAL #5

PROJECT # MERCER ISLAND 15 - 015

A4.01





- TYPICAL WOOD FINISH OVER SLAB ON GRADE: WOOD FINISH PER INTERIORS REINFORCED CONCRETE SLAB PER STRUCT WITH IN-SLAB HYDRONIC HEATING SYSTEM W/ THERMAL EXPANSION JOINTS AT WALL 6 MIL VISQUEEN (MIN) VAPOR BARRIER R-10 RIGID FOAM INSULATION 6" MINIMUM COMPACTED GRAVEL BASE OVER UNDISTURBED SOIL
- TYPICAL GARAGE FLOOR ASSEMBLY CONCRETE SEALER REINFORCED CONCRETE SLAB PER STRUCT., SLOPED TO DRAIN (1/4' PER FT.), 6 MIL POLY VAPOR BARRIER OVER 6" MINIMUM COMPACTED STRUCT. FILL UNDISTURBED SOIL.
- TYPICAL FLOOR ASSEMBLY OVER UNHEATED EXTERIOR SPACE FLOOR FINISH PER INTERIORS 1-1/8" T&G 'WARMBOARD' SUBFLOOR FLOOR SHEATHING (GLUED & SCREWED) WITH HYDRONIC HEATING SYSTEM FLOOR FRAMING PER STRUCTURAL R30 FIBERGLASS BATT INSULATION 6 MIL VISQUEEN VAPOR BARRIER EXTERIOR T&G CEDAR SOFFIT MATERIAL (SMOOTH FACE EXPOSED)
- TYPICAL FLOOR ASSEMBLY OVER HEATED SPACE FLOOR FINISH PER INTERIORS 1-1/8" T&G 'WARMBOARD' SUBFLOOR FLOOR SHEATHING (GLUED & SCREWED) WITH HYDRONIC HEATING SYSTEM FLOOR FRAMING PER STRUCTURAL 5/8" GYPSUM WALLBOARD VAPOR BARRIER PVC PRIMER FINISH PER OWNER SELECTION

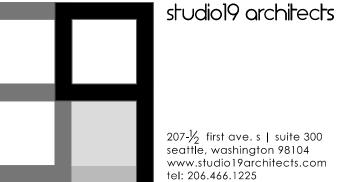
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- THINSET UNDERLAYMENT/ISOLATION MAT TYPICAL FLOOR ASSEMBLY

FINISH PER OWNER SELECTION

- COMPOSITE WOOD DECKING OVER WATERPROOF DECK ASSEMBLY: DECKING PER OWNER SELECTION "DRYJOIST" PVC STRUCTURAL DECK DRAINAGE SYSTEM DECK FRAMING PER STRUCTURAL 2X SOFFIT FURRING STRIPS 3/8" BEVELED SOFFIT BOARDS (SMOTH FACE EXPOSED) W/ CONTINUOUS STRIP VENTING
- TYPICAL DRIVEWAY ASSEMBLY REINFORCED CONCRETE SLAB PER STRUCT., SLOPED TO DRAIN (1/4' PER FT.), STAINED & SCORED, OVER 6" MINIMUM COMPACTED STRUCT. FILL OVER UNDISTURBED SOIL.
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- PATIO PAVERS OVER PIT SET PEDESTAL SYSTEM: PAVERS PER OWNER SELECTION LEVELING PEDESTALS CONCRETE SEALER REINFORCED 4" CONCRETE SLAB (SLOPE TO DRAIN 1/4" PER FOOT TO TRENCH DRAIN) 6" MINIMUM COMPACTED SAND BASE OVER UNDISTURBED SOIL.

### GENERAL NOTES

- 1. HANDRAIL 34"-38" ABOVE TREAD NOSING. STYLE & CONFIGURATION PER OWNER SELECTION. TBD.
- 2. HANDRAIL GRASPING DIMENSION 1-1/4" MINIMUM 2" MAXIMUM.
- DECKS, PORCHES, BALCONIES, RAMPS OR RAISED FLOOR SURFACES LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR OR GROUND BELOW SHALL HAVE GUARDRAILS NOT LESS THAN 36 INCHES IN HEIGHT. STYLE & CONFIGURATION PER OWNER SELECTION. TBD.



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CONSULTANT:

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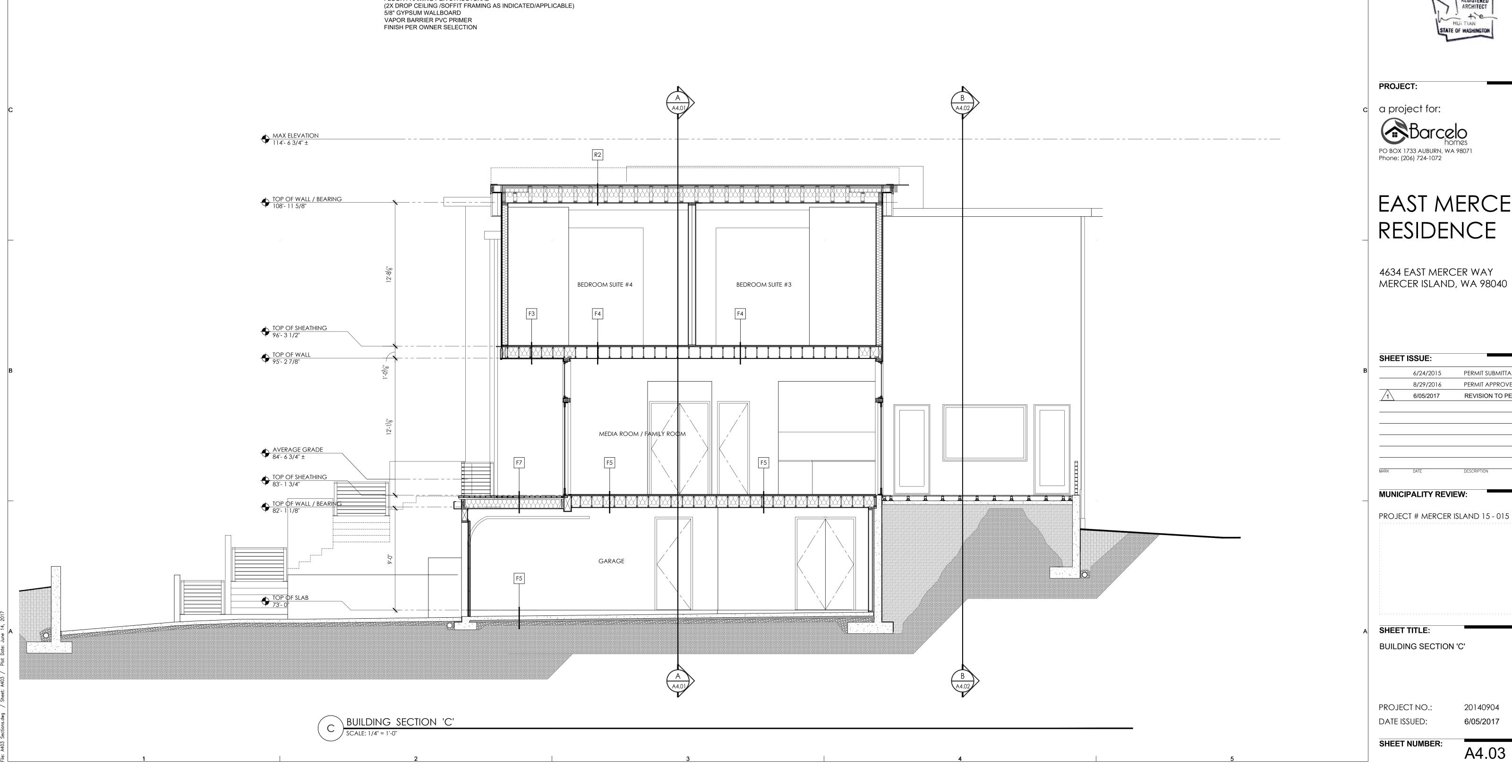
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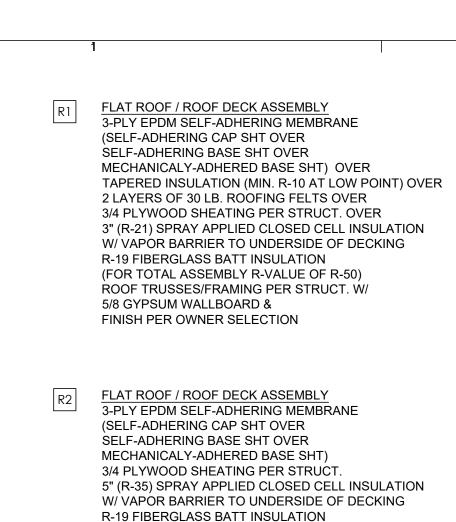
4634 EAST MERCER WAY MERCER ISLAND, WA 98040

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	8/29/2016	PERMIT APPROVED
1	6/05/2017	REVISION TO PERMIT

6/05/2017

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(FOR TOTAL ASSEMBLY R-VALUE OF R-54) ROOF TRUSSES/FRAMING PER STRUCT. W/

5/8 GYPSUM WALLBOARD &

- TYPICAL WOOD FINISH OVER SLAB ON GRADE: WOOD FINISH PER INTERIORS REINFORCED CONCRETE SLAB PER STRUCT WITH IN-SLAB HYDRONIC HEATING SYSTEM W/ THERMAL EXPANSION JOINTS AT WALL 6 MIL VISQUEEN (MIN) VAPOR BARRIER R-10 RIGID FOAM INSULATION 6" MINIMUM COMPACTED GRAVEL BASE OVER UNDISTURBED SOIL
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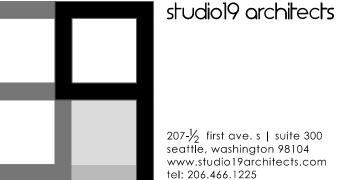
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## EAST MERCER RESIDENCE

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**MUNICIPALITY REVIEW:** 

PROJECT # MERCER ISLAND 15 - 015

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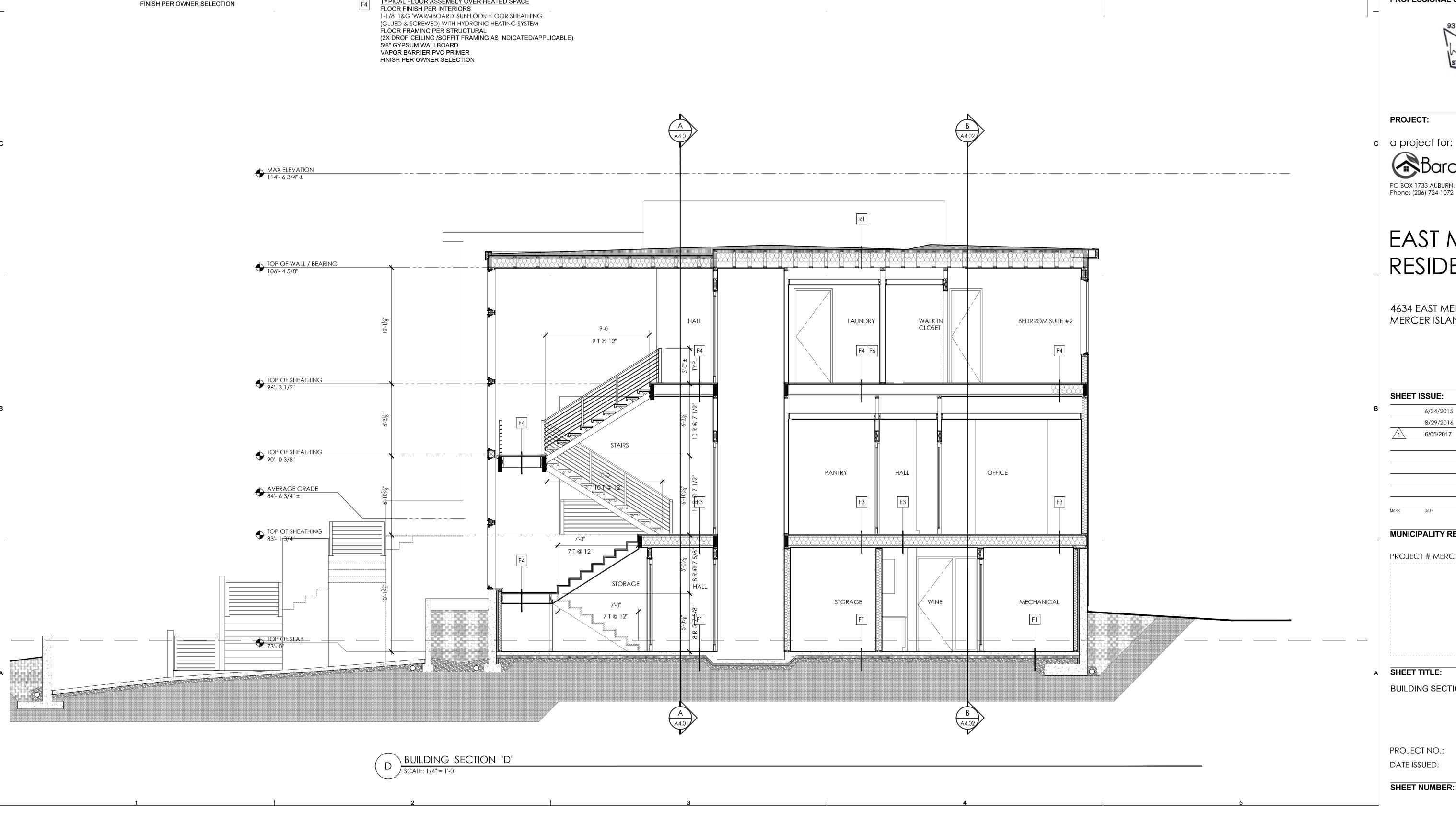
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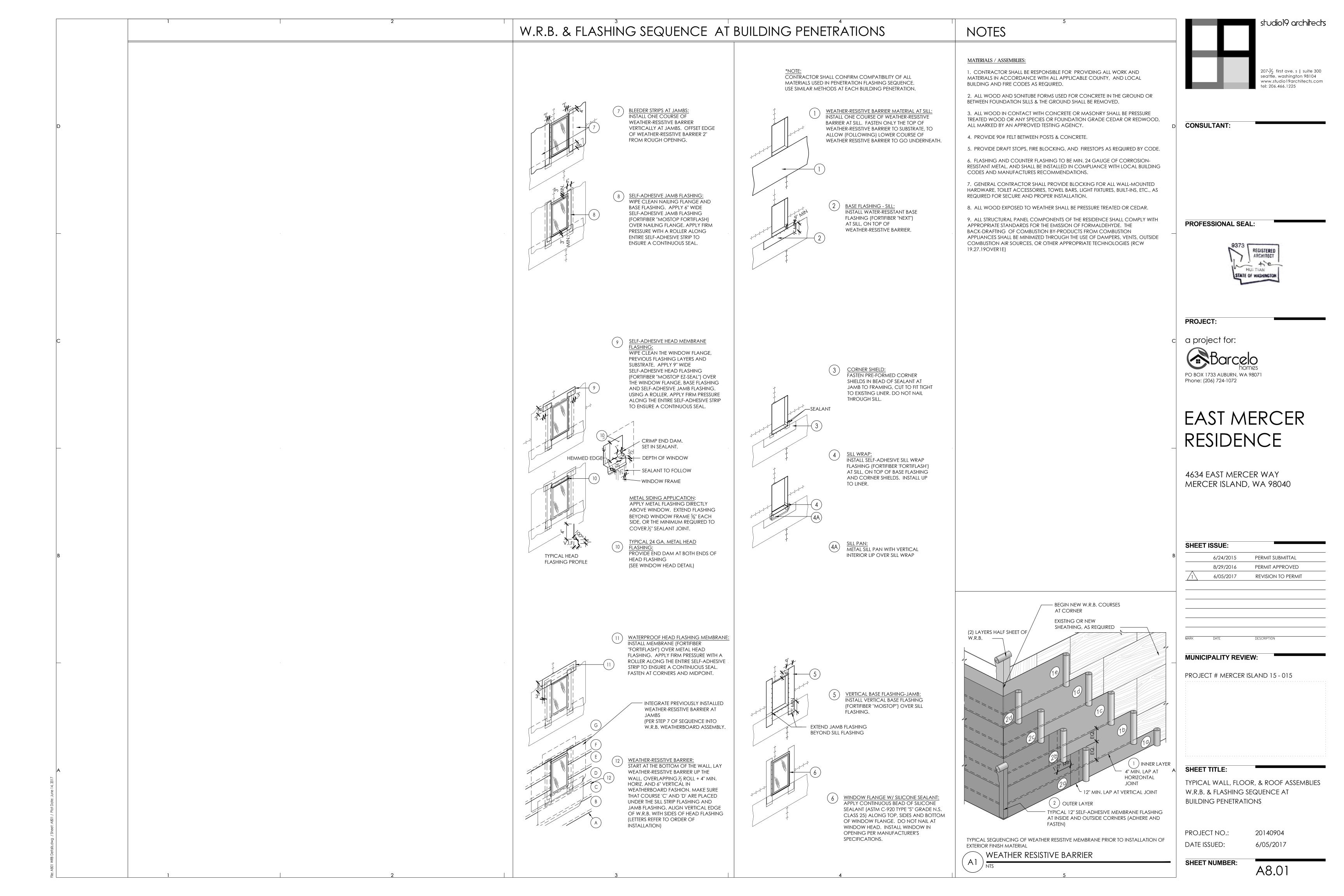
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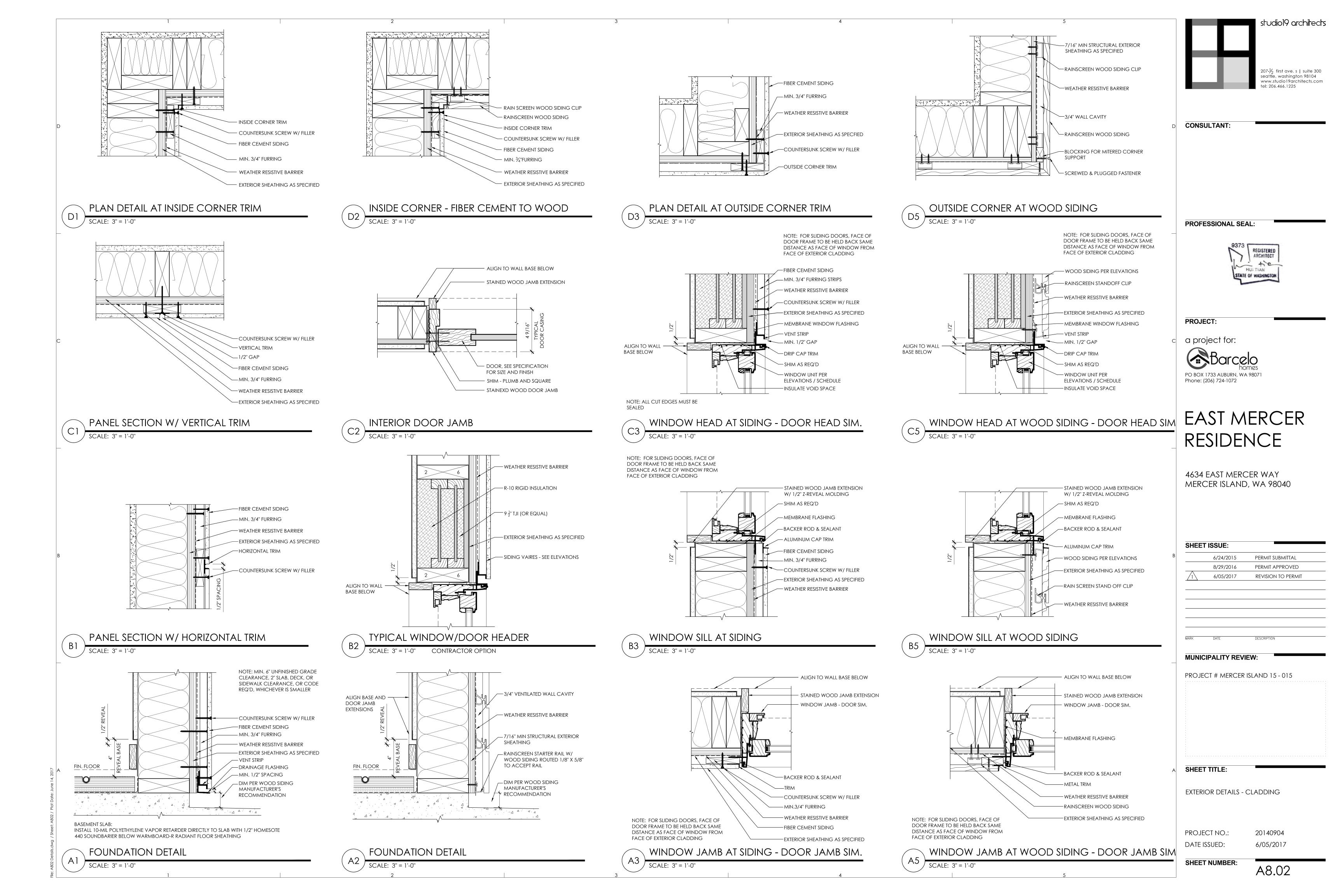
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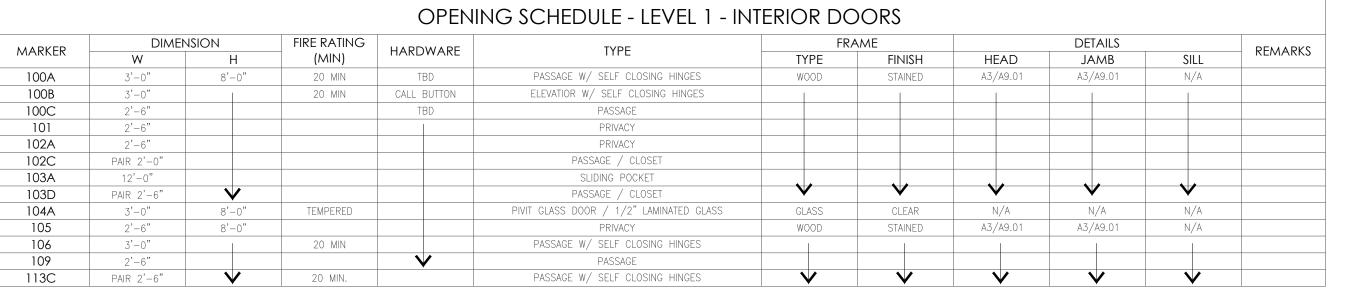
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				OPENING	SCHEDULE - LEVEL 2 -	· INTERIOR DC	ORS				
A A DIVED	DIMENSION		FIRE RATING	LIA DENALA DE		FRA	FRAME		DETAILS		
MARKER	W	Н	(MIN)	HARDWARE	TYPE	TYPE	FINISH	HEAD	JAMB	SILL	REMARKS
200B	PAIR 2'-6"	8'-0"		TBD	PASSAGE / CLOSET	WOOD	STAINED	A3/A9.01	A3/A9.01	N/A	
203	4'-6"				BARN SLIDER		ı			1	
204B	3'-0"				PASSAGE						
204C	3'-0"				POCKET/PASSAGE						
204D	3'-0"				POCKET/PASSAGE						
206	3'-0"				PASSAGE						
207A	2'-4"				PASSAGE / CLOSET						
207B	3'-0"		20 MIN		PASSAGE						
208	2'-4"				PASSAGE / CLOSET						
209	2'-8"				PRIVACY						
210B	PAIR 2'-4"				PRIVACY						
211	2'-6"	V		V	PRIVACY	V	V	V	<b>V</b>	<b>V</b>	

MARKER	DIMENSION		FIRE RATING	HARDWARE	TYPE	FRAME			DETAILS		REMARKS
	W	Н	(MIN)	HARDWARE	IIFE	TYPE	FINISH	HEAD	JAMB	SILL	REMARKS
300A	PAIR 2'-4"	8'-0"		TBD	PASSAG / CLOSET	WOOD	STAINED	A3/A9.01	A3/A9.01	N/A	
300B	3'-0"				PASSAGE		ı				
302	3'-0"				PASSAGE / CLOSET						
303A	PAIR 2'-4"				PASSAGE / CLOSET						
304	3'-0"				PASSAGE / CLOSET						
305A	5'-0"				BARN SLIDER						
305B	2'-8"				PRIVACY						
306	2'-6"				PRIVACY						
307	3'-0"				PRIVACY						
308	3'-0"				BARN SLIDER						
309	3'-0"				PASSAGE						
310	2'-6"				PRIVACY						
311	3'-0"				PASSAGE / CLOSET						
312	3'-0"				PRIVACY						
313	3'-0"				PRIVACY						
314	3'-0"				BARN SLIDER						
315	2'-6"	<b>V</b>		<b>V</b>	PRIVACY	V	V	V	V	V	

6'-4''

104A

	DIMENSION		HEAD HEIGHT	TVDE	FRA	ME	DETAILS			DEL LA DICC	
MARKER				ABOVE SUBFLOOR	TYPE	TYPE	FINISH	HEAD	JAMB	SILL	REMARKS
100	SEE EL	EVATIONS	SEE ELEVATIONS	SEE ELEVATIONS	GANGED PICTURE	CLAD WOOD	BRONZE	SEE SHT A8.02	SEE SHT A8.02	SEE SHT A8.02	SAFETY GLAZING NOTED ON ELEVATIONS — TYP
101					PICTURE						
102					PICTURE						
103					PICTURE						
104					PICTURE						
		/	V	V		V	V	<b>V</b>	V	V	<b>V</b>

				OPENI	NG SCHEDULE - LEVEL 1 - EX	KTERIOR DC	ORS				
A A A DICED	DIMENSION		FIRE RATING	IIIA DDWA DE	TVDE	FRAME		DETAILS			DELLADIC
MARKER	W	Н	(MIN)	HARDWARE	TYPE	TYPE	FINISH	HEAD	JAMB	SILL	REMARKS
111A	SEE ELEVATIONS	SEE ELEVATIONS	N/A	TBD	OVERHEAD SECTIONAL	N/A	N/A	TBD	TBD	TBD	
111B					OVERHEAD SECTIONAL	N/A	N/A	TBD	TBD	TBD	
102B					INSWING — FULL LITE	CLAD WOOD	BRONZE	SEE SHT A8.02	SEE SHT A8.02	FACTORY	
103B					SLIDING PATIO DOOR						
103C					SLIDING PATIO DOOR						
104B					OUTSWING — FULL LITE — DOUBLE DOOR						
	V	V	V	V		V	V	V	V	V	

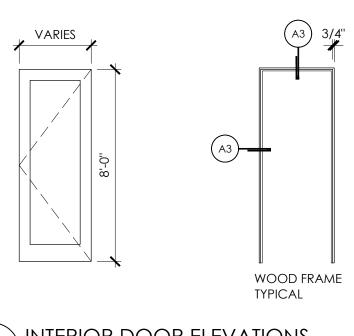
				OPENIN	IG SCHEDULE - LEVEL 2  - EX	XIERIOR DC	ORS				
A A DIVED	DIMENSION		FIRE RATING	HARDWARE	TYPE	FRAME		DETAILS			DEMARKS
MARKER	W	Н	(MIN)	HARDWARE	IIIL	TYPE	FINISH	HEAD	JAMB	SILL	REMARKS
200A	SEE ELEVATIONS	SEE ELEVATIONS	N/A	TBD	INSWING — FULL LITE	CLAD WOOD	BRONZE	SEE SHT A8.02	SEE SHT A8.02	FACTORY	
202					STACKING BIFOLD						
204A					INSWING — FULL LITE						
205					INSWING — FULL LITE						
210A					OUTSWING - FULL LITE - DOUBLE DOOR						
210C					OUTSWING - FULL LITE - DOUBLE DOOR						
	V	V	V	V		V	V	<b>V</b>	V	<b>V</b>	

	OPENING SCHEDULE - LEVEL 3 - EXTERIOR DOORS										
MARKER	DIME	VSION	FIRE RATING	HARDWARE	TYPE	FRA	ME		DETAILS		REMARKS
MAKKEK	W	Н	(MIN)	HARDWARE	IIFC	TYPE	FINISH	HEAD	JAMB	SILL	KEIVIAKKS
301	SEE ELEVATIONS	SEE ELEVATIONS	N/A	TBD	OUTSWING — FULL LITE — DOUBLE DOOR	CLAD WOOD	BRONZE	SEE SHT A8.02	SEE SHT A8.02	FACTORY	
303B					OUTSWING — FULL LITE						
	V	V	V	V		V	V	V	V	V	

### GENERAL FINISH NOTES

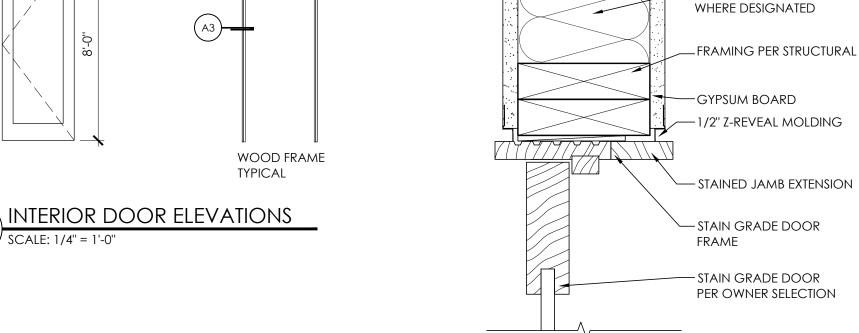
2012 IBC INTERIOR FINISH (CHAPTER 7, 8, 12 & 16)

- 1. THE FACING OF ANY EXPOSED INSULATION MUST MEET A FLAME SPREAD INDEX OF 25 OR LESS IBC SECTION 719.2).
- REFER TO TABLE 721.1 FOR RATED FIRE RESISTANCE PERIODS FOR WALLS AND PARTITIONS (2012 IBC)
- 3. THE MAXIMUM FLAME-SPREAD CLASS OF FINISH MATERIALS USED ON INTERIOR WALLS & CEILINGS SHALL NOT EXCEED THE FLAME-SPREAD LIMITATIONS OF IBC
- 4. INTERIOR WALL AND CEILING FINISH MATERIALS SHALL MEET WITH ASTM E84 OR UL
- 5. INTERIOR FLOOR FINISHES TO COMPLY WITH 2012 IBC SECTION 804, AND NFPA 253
- 6. INSULATION TO COMPLY WITH 2012 IBC SECTION 720
- 7. DECORATIVE MATERIALS AND TRIMS SHALL BE RESTRICTED BY COMBUSTIBILITY AND THE FLAME PROPAGATION PERFORMANCE CRITERIA OF NFPA 701, IN ACCORDANCE WITH SECTION 806 (2012 IBC)

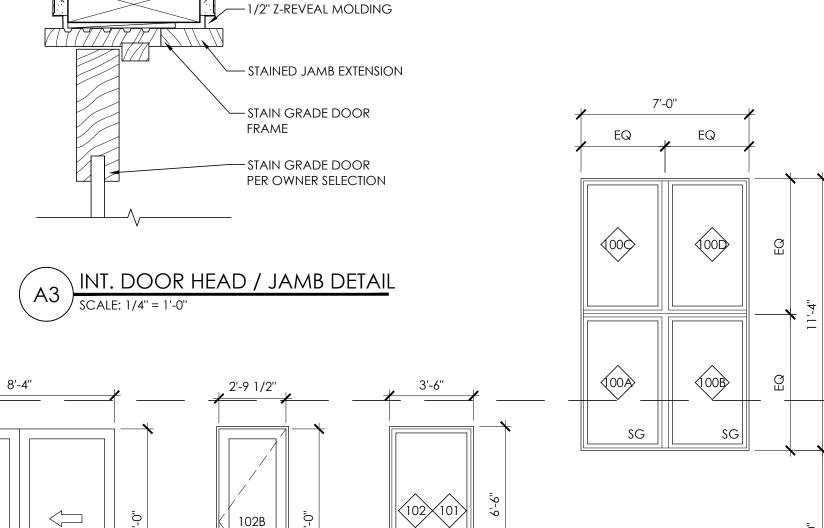


104B

SG\



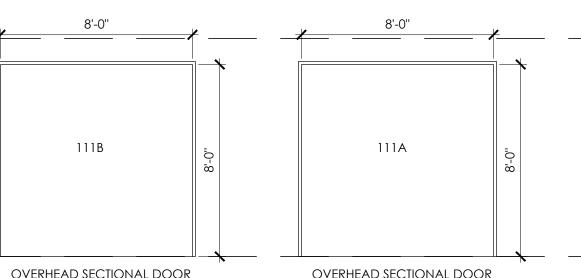
103B & 103C



- SOUND BATT INSULATION

## GENERAL NOTES

- ALL WINDOW DIMENSIONS AR NOMINAL. REFER TO MANUFACTURERS RECOMMENDATIONS FOR ROUGH OPENING DIMENSIONS.
- 2. CONTRACTOR TO VERIFY ALL DIMENSIONS IN THE FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO FABRICATION.
- 3. ALL GLAZING IN OR WITHIN 24" OF A DOOR, OR WITHIN 18" OF FLOOR, OR WITHIN 60" OF TUB FLOOR, GLAZING ADJACENT TO STAIRS AND STAIR LANDINGS, OR ANY OTHER HAZARDOUS AREA IS TO BE TEMPERED SAFETY GLAZING. PROVIDE SAFETY GLAZING WHERE REQUIRED PER APPLICABLE CODE REQUIREMENTS.
- 4. DOORS AND CASED OPENINGS LOCATED NEAR WALL INTERSECTIONS SHALL BE LOCATED SO THAT THE EDGE OF FINISHED OPENING IS 3" FROM FACE OF NEARBY WALL, UNLESS NOTED OTHERWISE.
- 5. ALL WINDOWS TO BE DOUBLE GLAZED WITH A MINIMUM U-VALUE OF 0.30 OR BETTER.
- 6. SEE SHEETS A-301 AND A-302, EXTERIOR ELEVATIONS FOR OPENING DIRECTION OF



EXTERIOR DOOR AND WINDOW ELEVATIONS - LEVEL 1

20140904 6/5/2017

SHEET NUMBER:

A9.01

studio19 architects

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**CONSULTANT:** 

PROFESSIONAL SEAL:

PROJECT:

a project for:

Phone: (206) 724-1072

SHEET ISSUE:

6/24/2015

8/29/2016

6/05/2017

MUNICIPALITY REVIEW:

PROJECT # MERCER ISLAND 15 - 015

PERMIT SUBMITTAL

PERMIT APPROVED

REVISION TO PERMIT

PO BOX 1733 AUBURN, WA 98071

EAST MERCER

RESIDENCE

4634 EAST MERCER WAY

MERCER ISLAND, WA 98040

REGISTERED

HUI TIAN STATE OF WASHINGTON

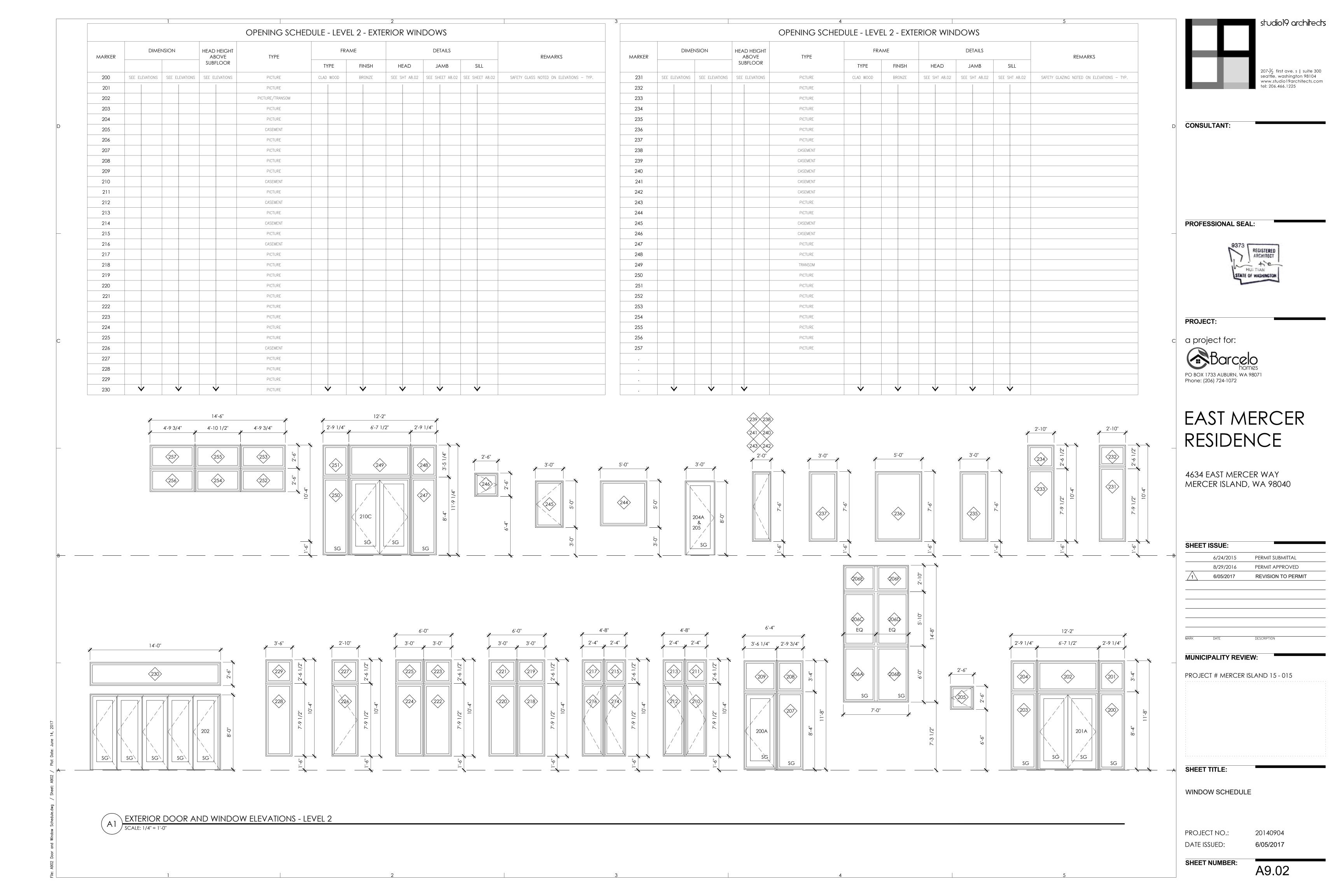
OPERABLE UNITS. EACH BEDROOM WINDOW MUST BE 5.7 SF MINIMUM NET CLEAR AREA (GRADE FLOOR OPENINGS CAN BE MINIMUM NET CLEAR OPEN AREA OF 5 SF), WITH 20" MINIMUM CLEAR OPEN WIDTH, 24" CLEAR OPEN HEIGHT, 44" MAXIMUM SILL 8. CAULK AND SEAL ALL WINDOW AND DOOR OPENINGS AND EXTERIOR PENETRATIONS. 9. MINIMUM 1/2" THROW ON DEAD BOLT OR DEAD LATCH FOR DOORS. 10. NOT USED 11. WINDOWS WITHIN 10' OF GRADE (OR ACCESSIBLE DECK) CAPABLE OF BEING 12. MINIMUM 1 3/8" SOLID CORE OR 20 MINUTE DOOR REQUIRED BETWEEN GARAGE AND DWELLING.

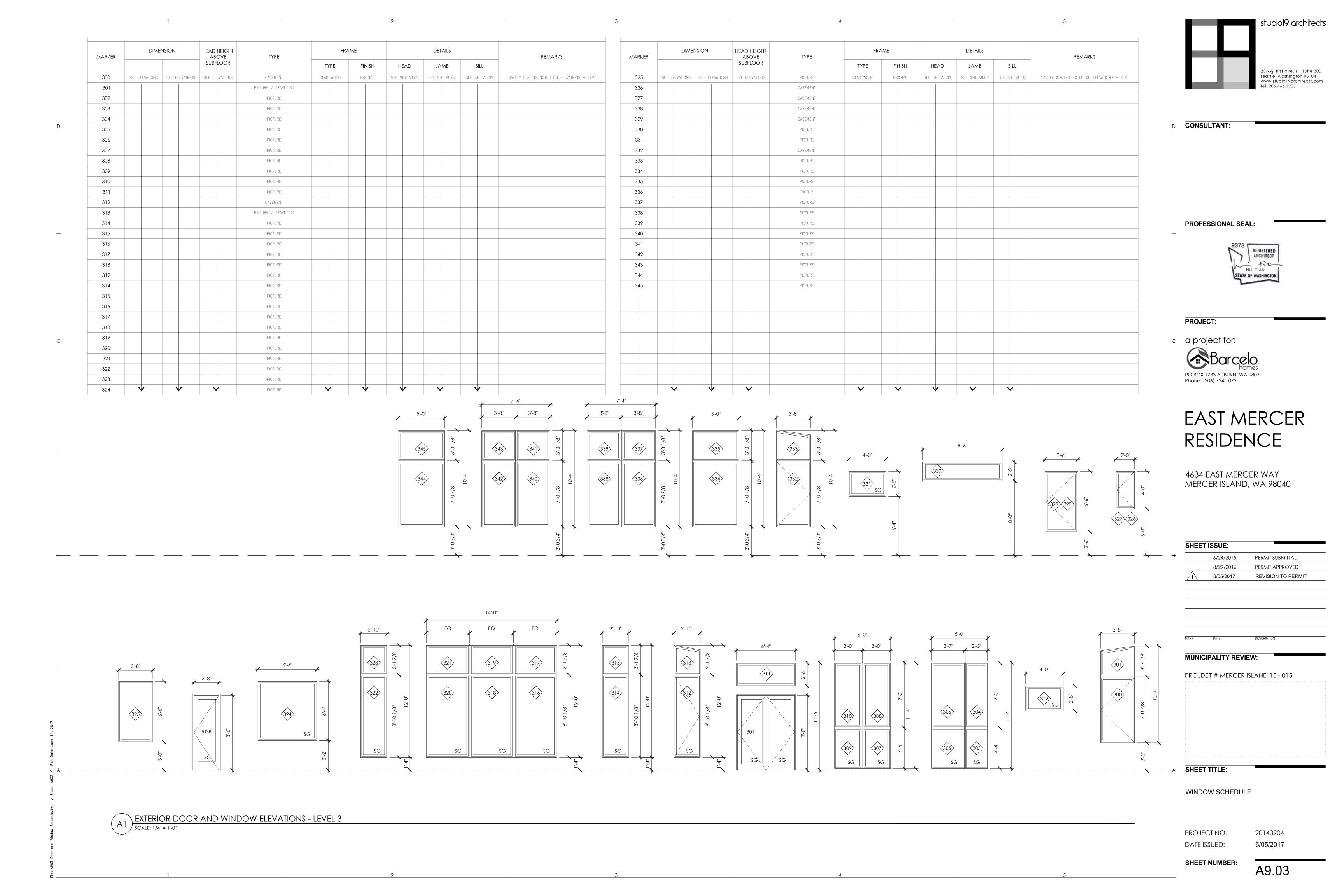
OVERHEAD SECTIONAL DOOR OVERHEAD SECTIONAL DOOR

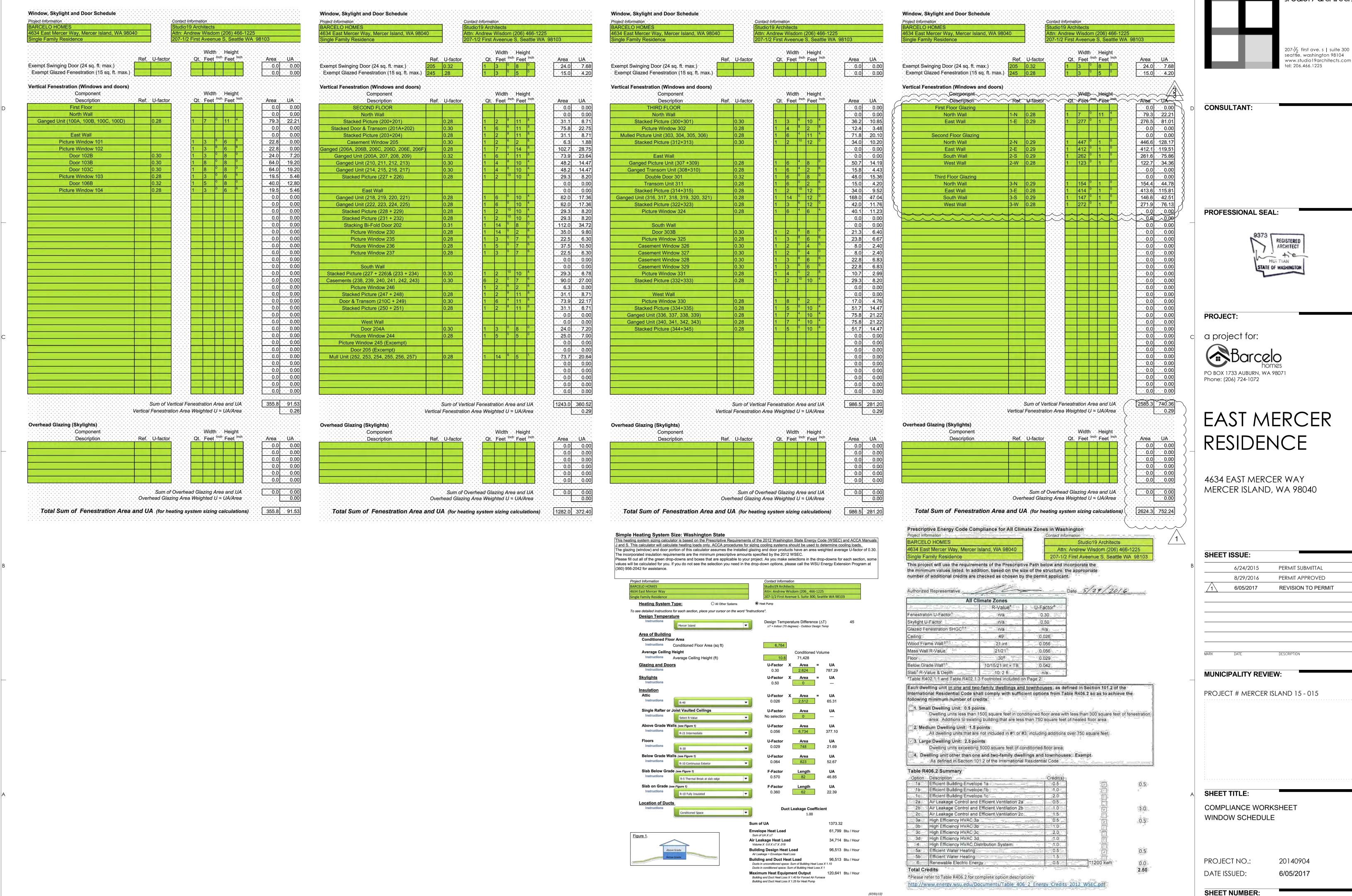
SHEET TITLE:

WINDOW & DOOR SCHEDULES

PROJECT NO.: DATE ISSUED:







studio19 architects

SHEET	ISSUE:	
	6/24/2015	PERMIT SUBMITTAL
	8/29/2016	PERMIT APPROVED
1	6/05/2017	REVISION TO PERMIT

A9.04

#### GENERAL STRUCTURAL NOTES

- 1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS. SPECIFICATIONS, THE INTERNATIONAL BUILDING CODE (2012 EDITION) AND MODIFICATIONS TO THE INTERNATIONAL BUILDING CODE. BY THE LOCAL JURISDICTION.
- 2. DESIGN LOAD CRITERIA

#### DEAD LOADS

	ROOF FLOORS DECKS EXTERIOR WALLS INTERIOR WALLS		25 PSF N/A N/A 10 PSF 8 PSF
LIVE LOADS	ROOF FLOOR / LIVING SPACE DECKS / BALCONIES		20 PSF N/A N/A
SNOWLOADS			
	GROUND LOAD ROOF SNOW LOAD		25 PSF 25 PSF
	EXPOSURE FACTOR IMPORTANCE FACTOR THERMAL FACTOR	$C_C = I_s = C_t =$	1.0
WIND			
	ULTIMATE DEIGN WIND SPEED (ASD WIND SPEED ( $V_{asd}$ ) WIND EXPOSURE IMPORTANCE FACTOR $I_W = ADJUSTMENT FACTOR$ $\lambda = WIND SPEED UP FACTOR$ ROOF SLOPE	$V_{ult})$	110 MPH 85 MPH C 1.0 1.0 1.0 flat
SEISMIC			
	SEISMIC USE GROUP IMPORTANCE FACTOR I <sub>E</sub> SITE CLASS SEISMIC DESIGN CATEGORY		I 1.0 D D
	RESPONSE FACTOR FOR LIGHT FRAME CONSTRUCTION	R=	6.5
	RESPONSE FACTOR FOR ORDINARY STEEL MOMENT FRA MAPPED ACCELERATION (PER USGS) BASE SHEAR	$S_S = S_1 = V =$	3.5 1.276 0.434 29,350

#### PER GEOTECHNICAL REPORT FILE NO. 14-128, 02/02/2015, PanGEO

SEISMIC RESPONSE COEFFICIENT Cs = 0.131

ALL SOIL PRESURE	2,500 PSF
FRICTION COEFFICIANT	0.4
EQUIVALENT FLUID PRESSURE	35 PSF
AT REST	45 PSF
AT REST WITH BACKSLOPE	55 PSF
PASSIVE	300 PSF
CREDUCED PASSIVE }	150 pcf
SEISMIC HORIZONTAL PRESSURE	8H.
(PASSIVE	375 pcf)

- 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 AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- 4. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING 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.
- 6. 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 OF THE OWNER, CONTRACTORS, OR OTHER SITE ENTITIES OR PERSONS AT THE PROJECT SITE.
- CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
- 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. ALL STRUCTURAL SYSTEMS WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

#### **FOUNDATIONS**

- 10. ALL FOOTINGS AND FOUNDATIONS SHALL BE SUPPORTED BY COMPETENT NATIVE SOIL 18" BELOW FINISHED GRADE FOR EXTERIOR SIDE AND 12" FOR INTERIOR FOOTINGS, FREE OF ORGANIC MATERIALS. OVEREXCAVATION MIGHT BE NEEDED TO REACH THE COMPETENT SOIL.
- 11. FOOTINGS AND FOUNDATION EXCAVATION SHALL BE FREE OF LOOSE SOILS, SLOUGHS, DEBRIS, AND FREE OF WATER AT ALL TIMES.
- 12. FOUNDATION WALL BACKFILL SHALL BE PLACED SIMULTANEOUSLY ON BOTH SIDES OF WALL PROVIDING 4" PERFORATED PIPE (AS REQUIRED) FOR SUBSURFACE DRAINAGE.
- 13. U.N.O. IN AN APPROVED GEOTECHNICAL REPORT, THE FOLLOWING METHOD FOR BACKFILL PLACEMENT AND COMPACTION IS TO BE USED:

EXCEPT FOR BACKFILL AGAINST BELOW-GRADE WALLS OR RETAINING WALLS, ALL OTHER STRUCTURAL FILL AND STRUCTURAL BACKFILL MATERIALS SHALL BE PLACED IN RELATIVELY HORIZONTAL LOOSE LIFTS NOT EXCEEDING 10 INCHES IN THICKNESS AND COMPACTED TO AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR (ASTM D1557) MAXIMUM DENSITY AT MOISTURE CONTENTS WITHIN TWO (2) PERCENT OF OPTIMUM. THE SPECIFIED COMPACTION DENSITY AND MOISTURE CONTENT OF EACH LIFT MUST BE VERIFIED BY INSPECTION, PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS. BACKFILL AGIANST BELOW-GRADE WALLS AND RETAINING WALLS SHOULD BE COMPACTED AS DESCRIBDED ABOVE TO ONLY 90 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM

- 14. FOOTING SIZE SHALL BE AS INDICATED ON DRAWINGS OR MIN. AS PER IBC SECTION 1806.
- WHERE THE SURFACE IS SLOPED MORE THAN OE (1) FOOT IN TEN (10) FEET THE FOUNDATION SHALL BE LEVEL OR STEPPED SO THAT BOTH, TOP AND BOTTOM, OF SUCH FOUNDATION ARE LEVEL PER IBC.
- 16 WHERE STRUCTURAL COLUMNS AND POSTS ARE EXPOSED TO WATER SPLASH ABOVE, A CONCRETE SURFACE OR TO THE WEATHER, PROVIDE A MIN. OF 1" ABOVE CONCRETE SURFACE, OR 8" ABOVE THE EXPOSED EARTH PER IBC.

#### CONCRETE

17 CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH IBC SECTION 1905, 1906, AND ACI 301. STRENGTH AT AGE 28 DAYS AND MIX CRITERIA SHALL BE AS FOLLOWS, U.N.O.:

MEMBER TYPE (IN)	PSI	MAX AGG RAT	R MAX W/C TO
SLABS ON GRADE	2,500	1	0.45
FOUNDATIONS	2,500	1	0.45
WALLS	4,500	1	0.50
COLUMNS	4,500	3/4	0.40
ELEVATED SLABS			
& BEAMS	4,500	3/4	0.40

CONCRETE MIX FOR FOUNDATION AND SLAB: CEMENT: 5.5 SACK TYPE I NORMAL PORTLAND CEMENT 1,210 LBS OF WET SAND 1,925 LBS GRAVEL

- 19 REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, FY = 60,000 PSI, UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM-185.
- 20. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315-92 AND ACI 318-08. 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.
- 21 NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED AND APPROVED BY THE STRUCTURAL ENGINEER.
- 22. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3" FORMED SURFACES EXPOSED TO EARTH OR WEATHER

(NO. 6 BARS OR LARGER) (NO 5 BARS OR SMALLER) 1-1/2" COLUMN TIES OR SPIRALS AND BEAM STIRRUPS 1-1/2" SLABS AND WALLS: GREATER OF BAR DIAMETER + 1/8 OR 3/4"

- 23. 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.
- 24. 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 (2.500 PSI MIN).

#### **ANCHORAGE**

- 25. POXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BARS) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED WITH SIMPSON EPOXY "SET-XP" OR EQUAL. SPECIAL INSPECTION IS REQUIRED. RODS SHALL BE ASTM A-36 UNLESS NOTED OTHERWISE.
- DRIVEN PINS AND OTHER POWDER ACTUATED FASTENERS SHALL BE LOW VELOCITY TYPE. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT IN CONCRETE SHALL BE 1" UNLESS OTHERWISE NOTED. MAINTAIN AT LEAST 3" TO NEAREST CONCRETE

#### STEEL

STRUCTURAL STEEL FABRICATION, ERECTION AND WELDING INSPECTION SHALL COMPLY WITH THE SPECIAL INSPECTION SCHEDULE.

STRUCTURAL STEEL SHALL BE GRADE A-36 UNLESS NOTED OTHERWISE.

ARCHITECTURALLY EXPOSED STEEL SHALL CONFORM TO SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

- 30. ALL ANCHORS EMBEDED IN MASONRY OF CONCRETE SHALL BE A307 HEADED BOLTS OR A36 THREADED ROD.
- 31. ALL WELDING SHALL BE IN CONFORMANCE WITH AISC 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, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION
- 32. WELDING INSPECTION SHALL BE IN COMPLIANCE WITH AWS D1.1.

#### WOOD

33. ALL SOLID LUMBER TO BE GRADED BY WCLIB OR WWSA. ALL LUMBER SHALL BE HEM-FIR #2 (HF #2) OR BETTER. ALL SOLID LUMBER 5" X 4" OR LARGER SHALL BE DOUGLAS FIR #2 (DF #2) U.N.O. ALL GLUE-LAMINATED LUMBER SHALL BE GLULAM 24F-1.8E WS.

#### DESIGN VALUES FOR GLULAM BEAMS

FLEXURAL STRESS TENSION ZONE	2,400 PSI
FLEXURAL STRESS COMPRESSION ZONE	1,850 PSI
COMPRESSION PERPENDICULAR TO GRAIN	650 PSI
SHEAR	266 PSI
APPARENT E	1.8x16 lb-in <sup>2</sup>
TRUE E	1.9x10 lb-in <sup>2</sup>

- 34. LUMBER IN CONTACT WITH CONCRETE AND ALL EXTERIOR WOOD SHALL BE PRESSURE TREATED. ALL CONNECTORS GALVANIZED.
- 35. INSTALL SOLID BLOCKING BTWN JOISTS AT ALL BEARING POINTS.
- 36. THROUGH BOLTS AND LAG BOLTS SHALL BE ASTM A307. PROVIDE MALLEABLE IRON WASHER AT ALL BOLT AND LAG BOLT LOATIONS. PROVIDE CUT WASHER FOR ALL BOLTS PROTRUDING BEARING WOOD.
- 37. ALL METAL (CONNECTORS, NAILS, BOLTS, ETC.) IN CONTACT WITH P.T. WOOD SHALL BE HOT DIPPED GALVANIZED.
- 38. U.N.O. CONNECTORS AND FASTENERS SHALL COMPLY WITH IBC TABLE 2304.9.1

### **OPEN WEB TRUSSES**

39. PER IBC 2012 1704.2.2, PREFABRICATED OPEN-WEB JOISTS SHALL BE FABRICATED BY A REGISTERED AND APPROVED FABRICATOR. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANNCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

#### NOTE:

NO STRUCTURAL CHANGES FROM THE APPROVED PLANS SHALL BE MADE IN THE FIELD UNLESS PRIOR TO MAKING CHANGES, WRITTEN APPROVAL IS OPTAINED FROM THE ENGINEER OF RECORD. IF CHANGES ARE MADE WITHOUT WRITTEN APPROVAL, SUCH CHANGES SHALL BE THE LEGAL AND FINANCIAL RESPONSIBILITY OF THE CONTRACTOR OR SUB-CONTRACTORS INVOLVED AND SHALL BE THEIR RESPONSIBILITY TO REPLACE OR REPAIR THE CONDITION AS DIRECTED BY THE ENGINEER.

COMPARISON OF COMMON, BOX AND SINKER NAIL DIMENSIONS (inches) OF THE SAME PENNYWEIGHT.											
TYPE	FEATURE		PENNYWEIGHT								
		6d	8d	10d	12d	16d					
COMMON	Length	2	2-1/2	3	3-1/4	3-1/2					
	Diameter	0.113	0.131	0.148	0.148	0.162					
	Head	0.226	0.281	0.312	0.312	0.344					
BOX	Length	2	2-1/2	3	3-1/4	3-1/2					
	Diameter	0.099	0.113	0.128	0.128	0.135					
	Head	0.266	0.297	0.312	0.312	0.344					
SINKER	Length	1-7/8	2-3/8	2-7/8	3-1/8	3-1/4					
	Diameter	0.092	0.113	0.120	0.135	0.148					
	Head	0.231	0.266	0.281	0.312	0.344					

PROTECTION FOR REINFORCEMENT OF	MIN.
CAST IN-PLACE CONCRETE	COVEF
Concrete cast against and permanently exposed to earth	3"
Concrete exposed to earth or weather	
Wall panels:	
No. 6 through No. 18 bars	2"
No. 5 bars, W31 or D31 wire, and smaller	1 ½"
Concrete exposed to neither earth or weather	
Slabs, walls, and joists:	
No. 14 and no. 18 bars	1 ½"
No. 11 and smaller bars	3/4"
Beams and Columns:	
Primary reinforcement, ties, stirrups, and spirals	1 1/2"
Shells and folded-plate members:	
No. 6 bars and larger	3/4"
No. 5 bars, W31 or D31 or smaller	3/4"

**REVISION 08/06/19** 



tecinstruct LLC Telephone (206) 553 9076 - Fax (206) 529 4408 ENGINEERING

	ENGINEE	KING							
BUILDER:	Barcelo Hom		SHEET						
JOB SITE:	4634 E Merc	nd							
PARCEL NO.:				WA 98040	S1				
DESCRIPTION:	new SFR	new SFR							
DATE:	03/11/15	SCALE:	as noted						
ENGINEER:	Roland Hei	misch, F	P. E.						

## **Statement of special inspections**

## General

The owner shall comply an approved agency for the special inspections for the construction of this project

A quality assurance and inspection plan from an AISC approved fabrictor is required to satisfy the inspection requirements.

The following systems and components shall be inspected

Type

Standard

At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building official stating that the work was performed in accordance with the approved construction documents

## **Special inspections for structural steel**

Steel sections, steel grade, location of installation

all elements AISC 360

## Special inspections for steel construction other than structural steel

Inspection of welding

periodic

AWS D1.3

## **Special inspections for concrete construction**

Inspection of reinforcing steel Inspection of anchors post-installed in hardened concrete members Verifying use of required design mix Inspect formwork for shape, locations, and dimensions

periodic periodic periodic periodic

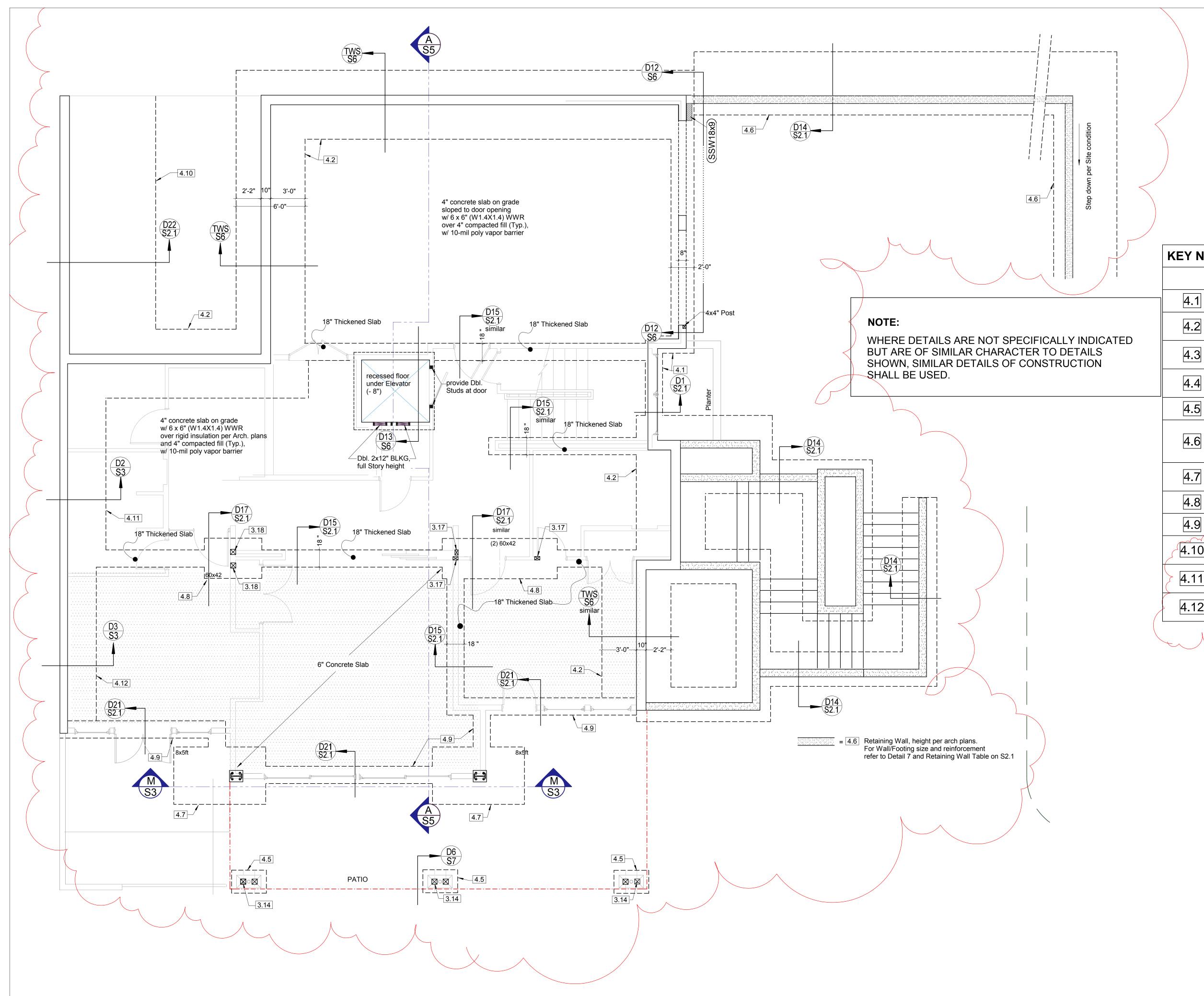
ACI 318 3.5, 7.1-7.7 ACI 318 3.8.6, 8.13, 21.2.8 ACI 318 Ch 4,5.2-5.4 ACI 318 6.1.1

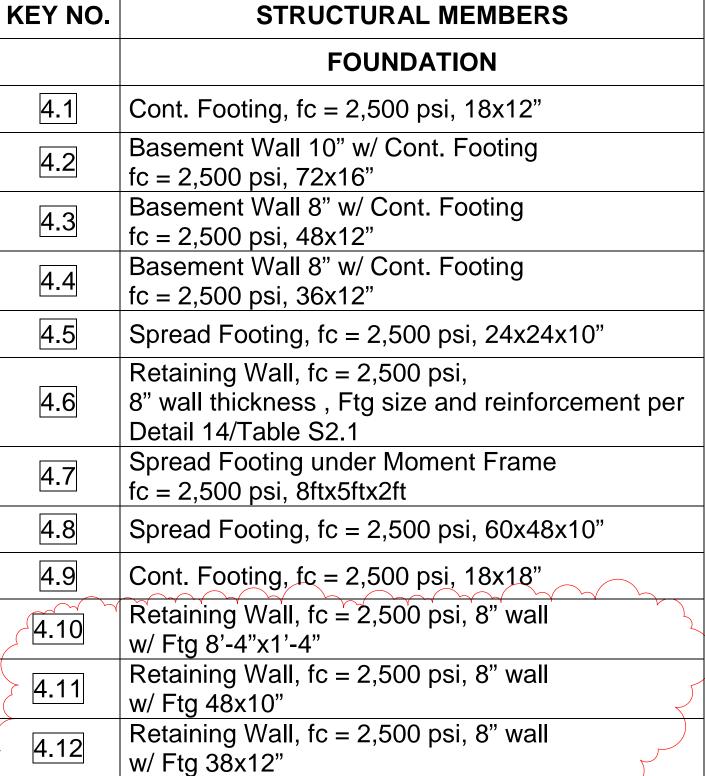


## **REVISION 05/29/16**

	6830 NE Bothel	I Way - Suite ( ) 553 9076 - F	C, PMB 181, Kenmore Fax (206) 529 4408	_	
BUILDER:	Barcelo Hom	nes			SHEET
JOB SITE:	4634 E Merc	er Way,	Mercer Island	t	
PARCEL NO.:			WA 98040	)	011
DESCRIPTION:	new SFR				S1.1
DATE:	03/11/15	SCALE:	as noted		

Roland Heimisch, P. E.







## **REVISION 06/18/17**

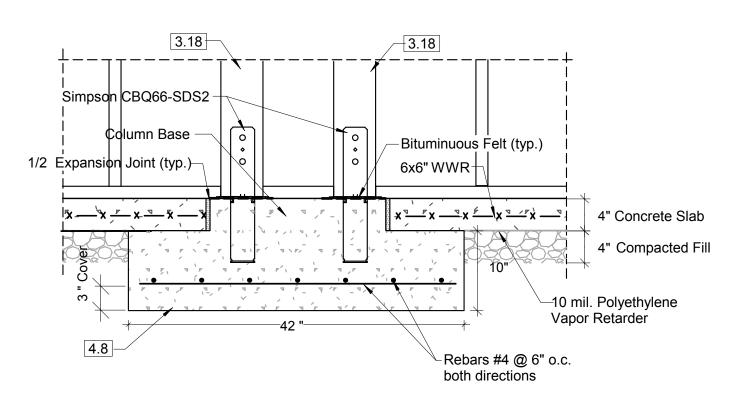
tecinstruct LLC
6830 NE Bothell Way - Suite C, PMB 181, Kenmore, WA 98028
Telephone (206) 553 9076 - Fax (206) 529 4408
ENGINEERING

Barcelo Hom	nes			SHEET
4634 E Merc	er Way,	Mercer Islar	nd	
			WA 98040	$\mathbf{O}$
new SFR				52
03/11/15	SCALE:	as noted		
Roland Hei	misch, F	P. E.		
	4634 E Merc new SFR 03/11/15	new SFR 03/11/15   SCALE:	4634 E Mercer Way, Mercer Islan new SFR	4634 E Mercer Way, Mercer Island  WA 98040  new SFR  03/11/15 SCALE: as noted

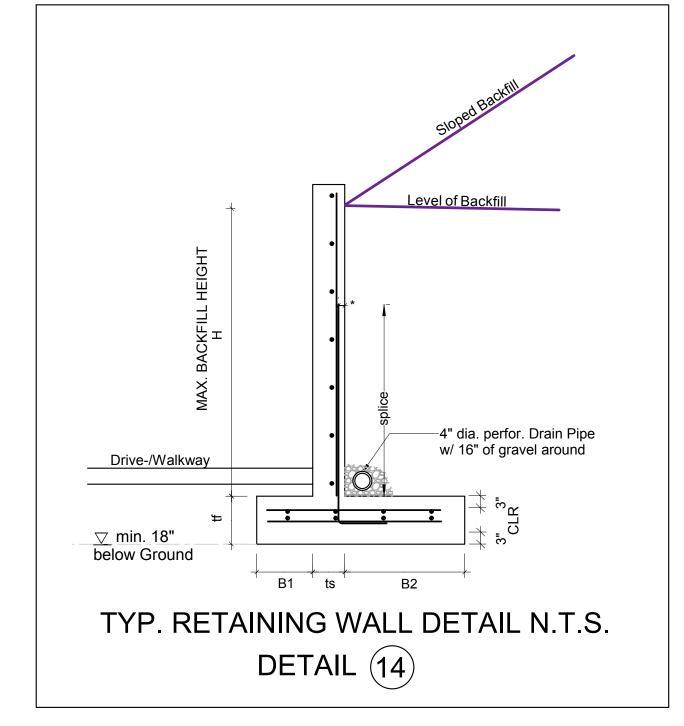
## RETAINING WALL SCHEDULE

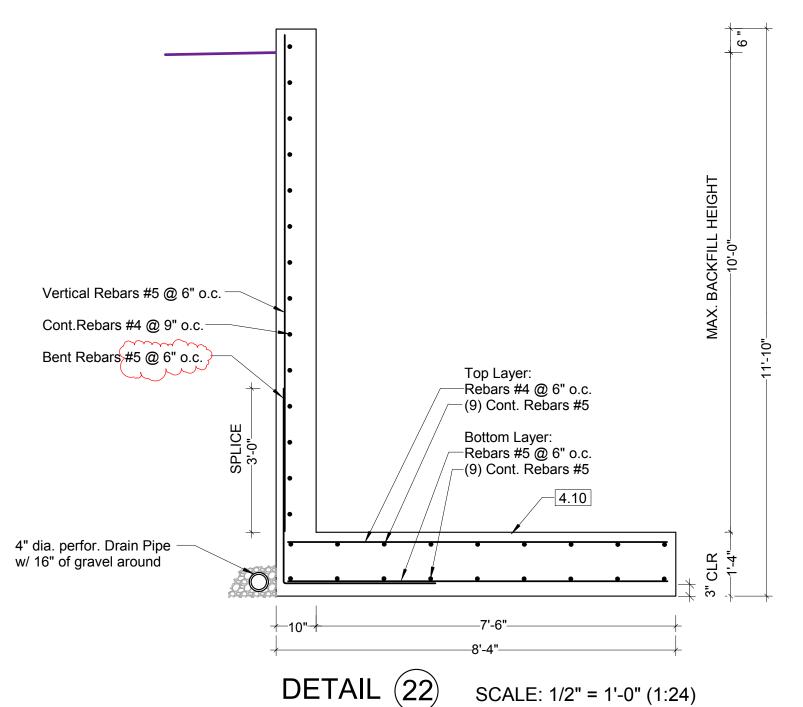
					Stem Re	inforcing			Footing R	einforcing	g
							1	T	op Layer	Bo	ttom Layer
H (ft.)	B1	ts	B2	tf	horiz.	vert.	splice	cont.	perp.	cont.	perp.
3'-0"	1'-0"	8"	1'-0"	12"	#4 @ 12" o.c.	#4 @ 12" o.c.	2ft	-	-	(2) #4	#4 @ 12" o.c.
4'-0"	1'-0"	8"	1'-4"	12"	#4 @ 12" o.c.	#4 @ 12" o.c.	2ft	-	-	(3) #4	#4 @ 12" o.c.
5'-0"	1'-4"	8"	1'-6"	10"	#4 @ 12" o.c.	#4 @ 16" o.c.	3ft	-	-	(3) #4	#4 @ 16" o.c.
6'-0"	1'-4"	8"	2'-0"	10"	#4 @ 12" o.c.	#4 @ 12" o.c.	3ft	-	-	(4) #4	#4 @ 12" o.c.
8'-0"	1'-10"	8"	2'-9"	12"	#4 @ 12" o.c.	#5 @ 9" o.c.	3ft	(6) # 4	#4 @ 9" o.c.	(6) #4	#4 @ 9" o.c.
10'-0"	2'-0"	10"	3'-10"	14"	#5 @ 12" o.c.	#5 @ 8" o.c.	4ft	(8) #4	#5 @ 8" o.c.	(8) #4	#4 @ 8" o.c.
12'-0"	2'-6"	10"	4'-2"	10"	#5 @ 12" o.c.	#6 @ 6" o.c.	4ft	(8) #4	#5 @ 6" o.c.	(8) #4	#4 @ 6" o.c.
RETAINI	NG WALL	WITH S	LOPED BA	ACKFILL	-						
12'-0"	3'-0"	12"	5'-0"	16"	#5 @ 12" o.c.	#6 @ 6" o.c.	4ft	(8) #4	#5 @ 6" o.c.	(8) #4	#4 @ 6" o.c.

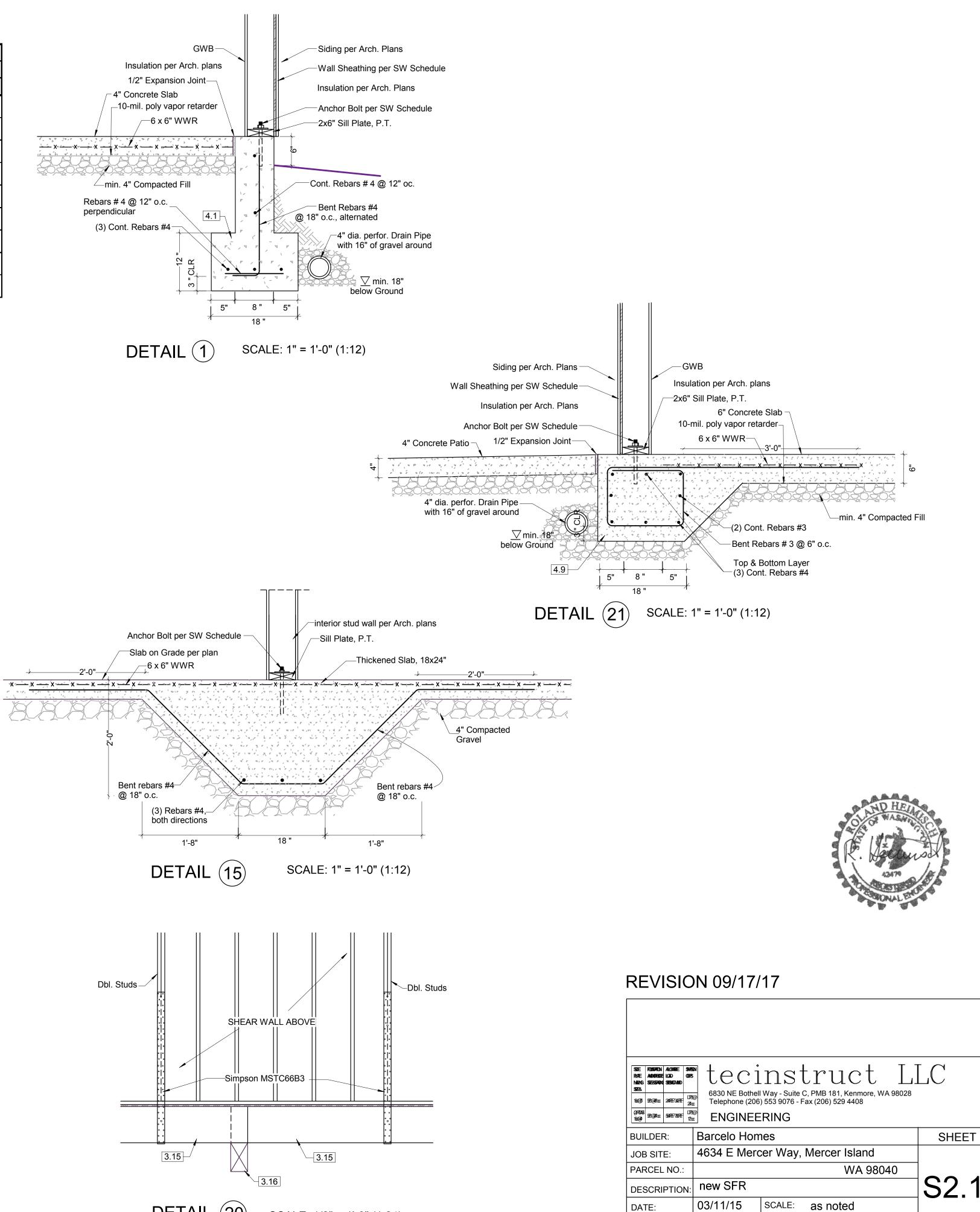
	PROTECTION FOR REINFORCEMENT OF	MIN.
	CAST IN-PLACE CONCRETE	COVER
	Concrete cast against and permanently exposed to earth	3"
	Concrete exposed to earth or weather	
*	Wall panels:	
	No. 6 through No. 18 bars	2"
	No. 5 bars, W31 or D31 wire, and smaller	1 1/2"
	Concrete exposed to neither earth or weather	
	Slabs, walls, and joists:	
	No. 14 and no. 18 bars	1 1/2"
	No. 11 and smaller bars	3/4"
	Beams and Columns:	
	Primary reinforcement, ties, stirrups, and spirals	1 1/2"
	Shells and folded-plate members:	
	No. 6 bars and larger	3/4"
	No. 5 bars, W31 or D31 or smaller	3/4"



**DETAIL** (17) SCALE: 1" = 1'-0" (1:12)



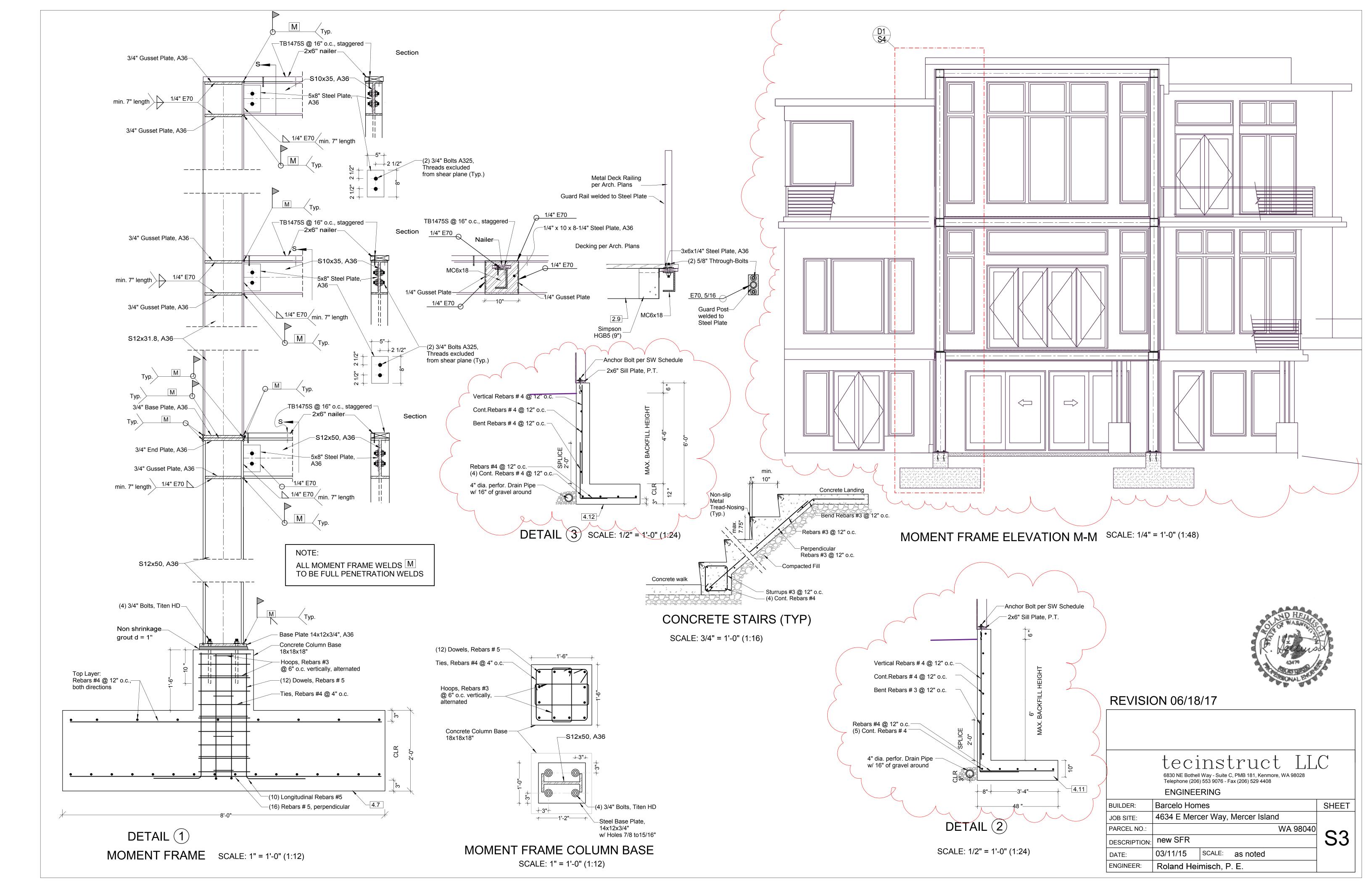


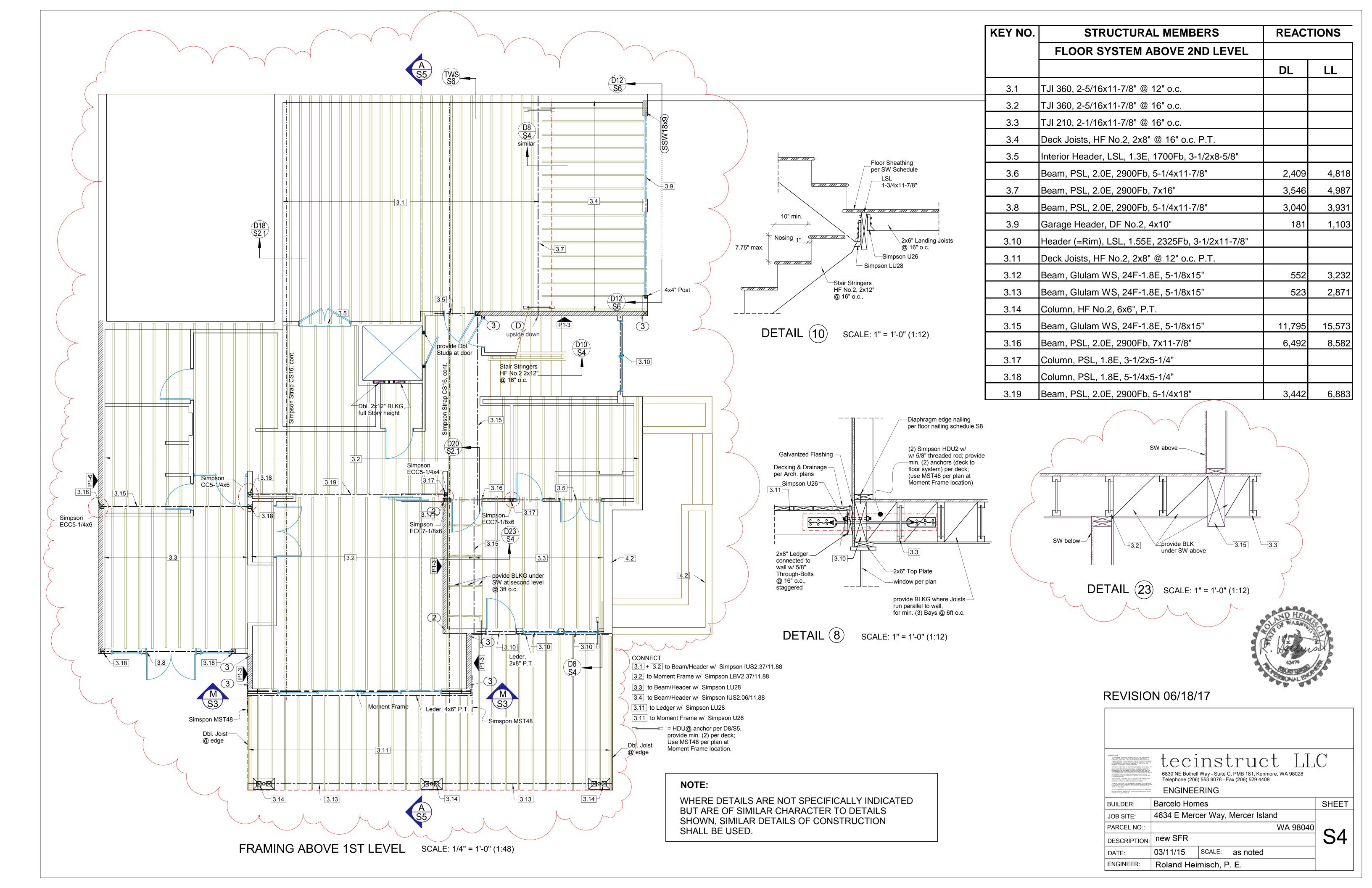


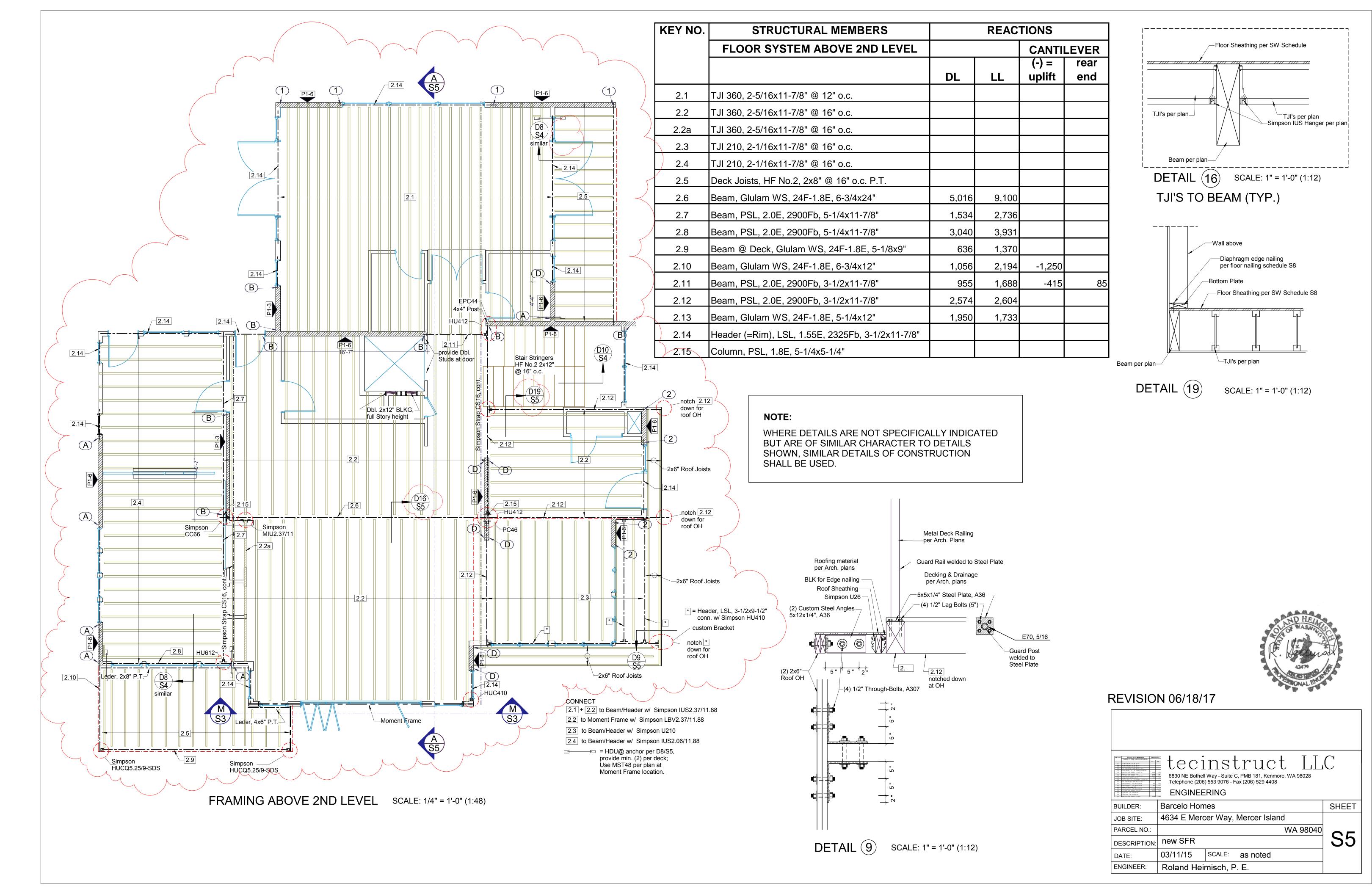
ENGINEER:

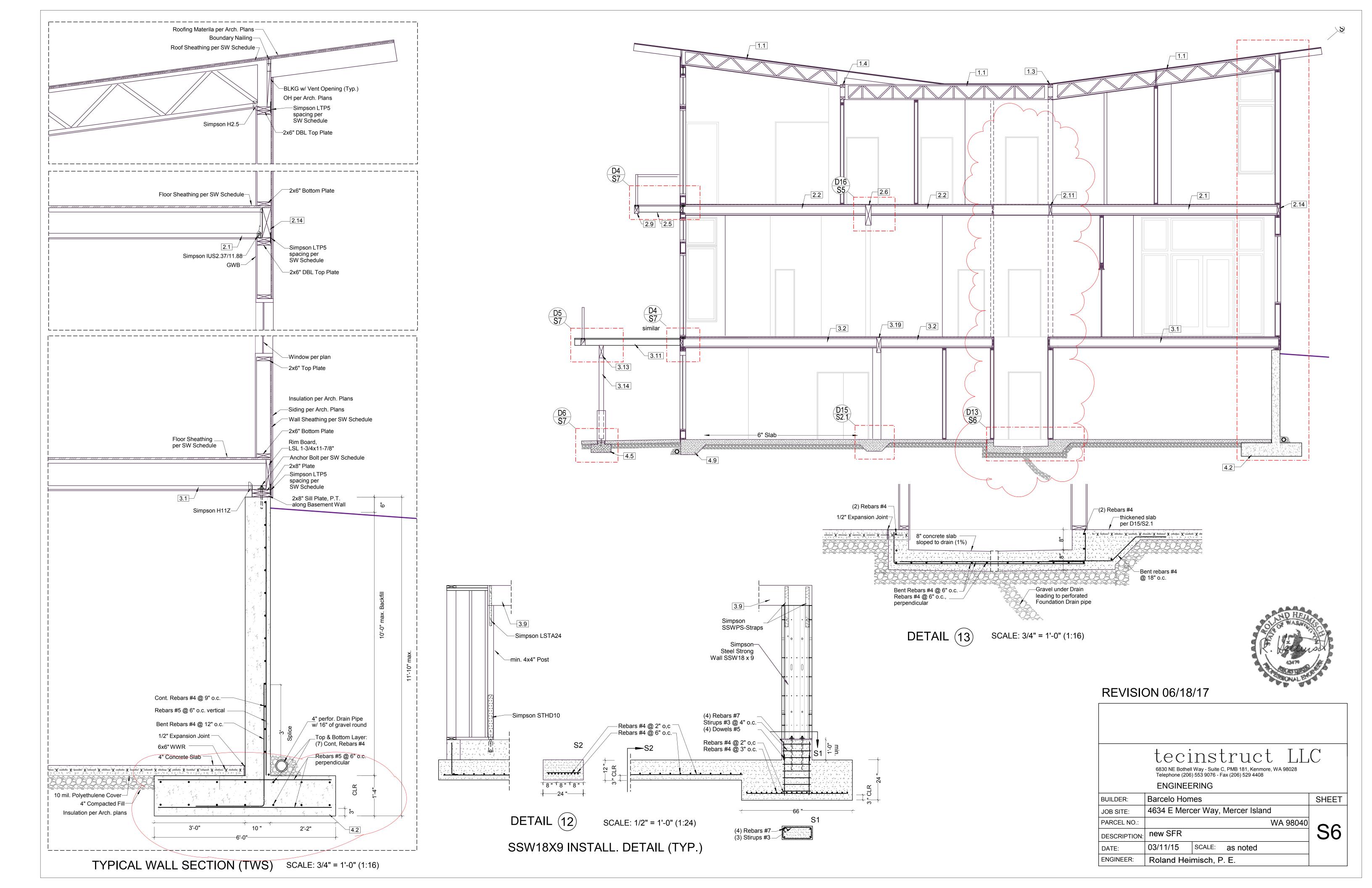
Roland Heimisch, P. E.

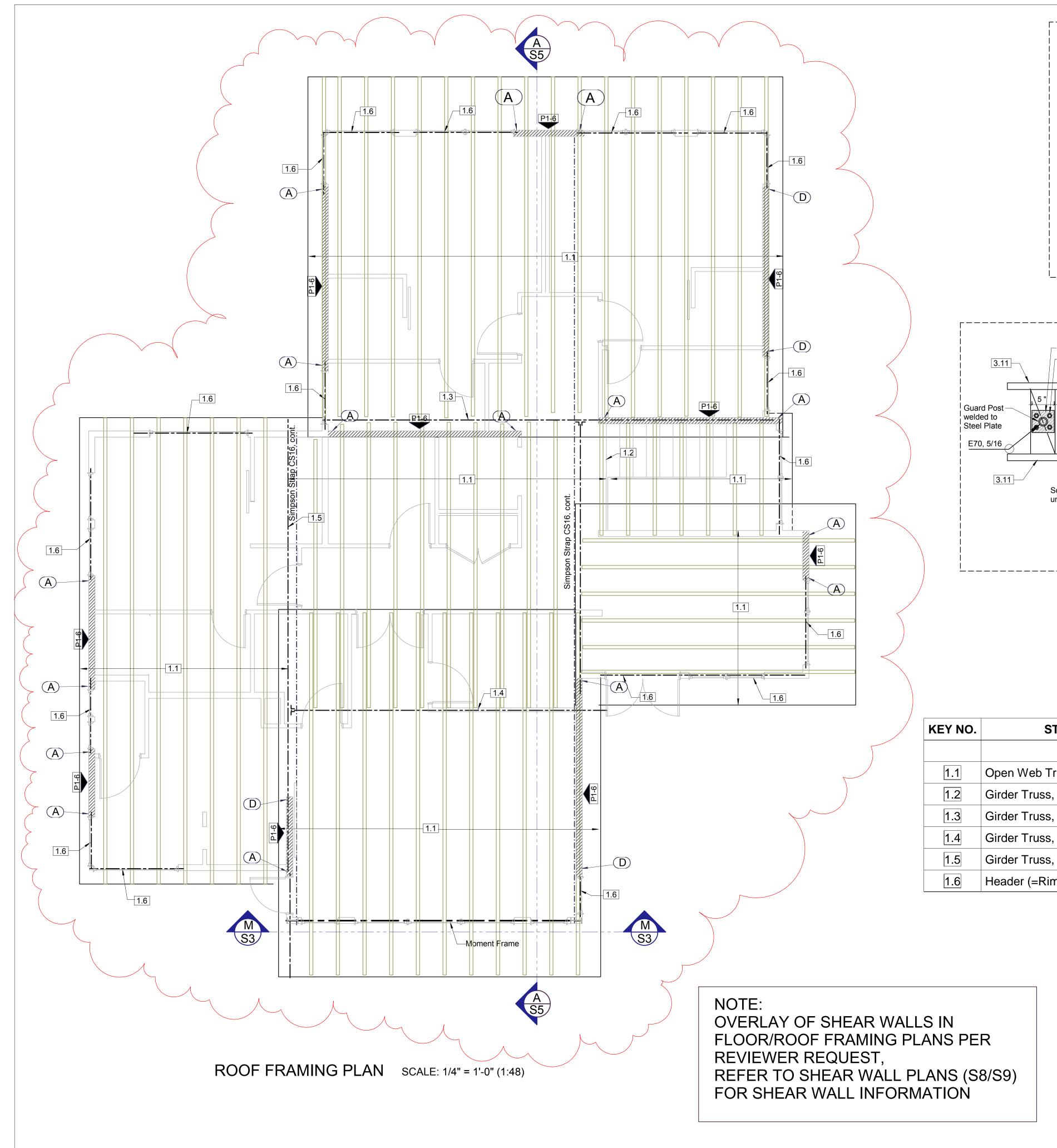
SCALE: 1/2" = 1'-0" (1:24)

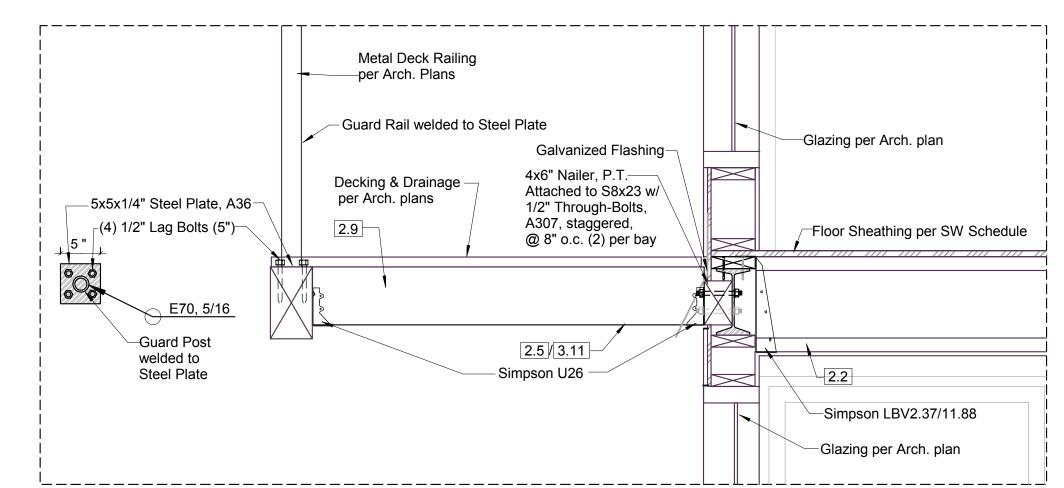




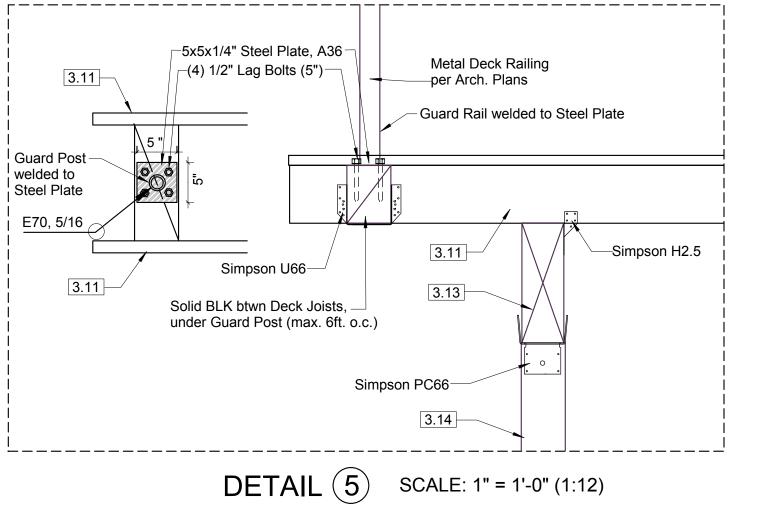


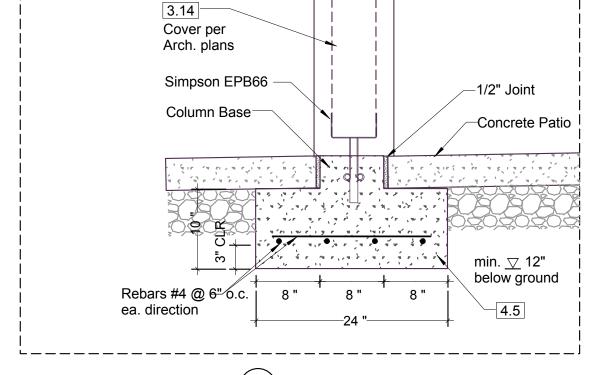






**DETAIL** 4 SCALE: 1" = 1'-0" (1:12)



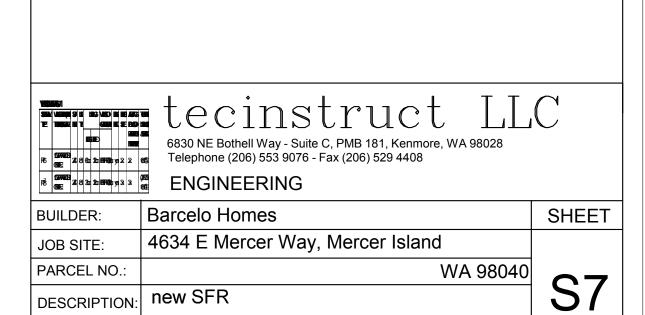


**DETAIL** 6 SCALE: 1" = 1'-0" (1:12)

KEY NO.	STRUCTURAL MEMBERS
	ROOF LEVEL
1.1	Open Web Trusses @ 24" o.c., d = 18"
1.2	Girder Truss, d = 18"
1.3	Girder Truss, d = 18"
1.4	Girder Truss, d = 18"
1.5	Girder Truss, d = 18"
1.6	Header (=Rim), LVL, 2-ply, (2) 1-3/4x18"



## **REVISION 06/18/17**



02/23/15 SCALE: as noted

Roland Heimisch, P. E.

## **HOLDOWN SCHEDULE**

SYMBOL	HOLDOWN	EMBED.	BOLT TYPE	MIN. WOOD MEMBER THICKNESS
1	Simpson HDU2	18"	SB5/8x24	(2) 2x
2	Simpson HDU4	18"	SB5/8x24	(2) 2x
3	Simpson HDU8	18"	SB7/8x24	DF 6x6"
4	Simpson HDU11	24"	SB1x30	DF 6x6"

## VERTICAL DIAPHRAGM SHEARWALL WALL SH

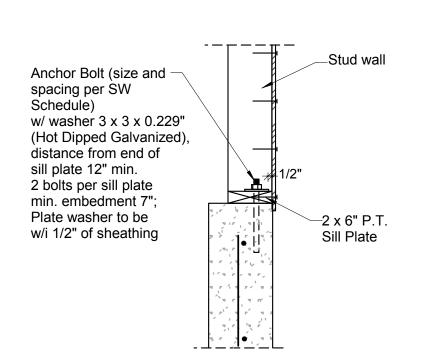
SHEARWALL TYPE	WALL SHEATHING (PANEL) THICKNESS & GRADE	SPAN INDEX	NAIL TYPE			WALL STUD GRADE & SPACING	BLKG REQ'D	BLOCK SIZE	ABUTTING PLYWOOD	TOP PLATE NAILING SIZE	SOLE PLATE	FOUNDATION ANCHOR BOLTS	ALLOWABLE LOAD	SIMPSON CLIPS
				EDGE	FIELD				PANEL EDGE MEMBER SIZE	& SPACING	NAILING SIZE &	SIZE & SPACING	SEISMIC / WIND	
P1-6	15/32" APA RATED/OSB ONE FACE	24/0	8d	6" o.c.	12" o.c.	HEM-FIR @ 16" o.c.	yes	2x	2x	16d @ 5"	16d @ 5"	5/8" @ 48" o.c.	244 PLF / 342 PLF	LTP5 @ 24" o.c.
P1-3 <sup>2</sup>	15/32" APA RATED/OSB ONE FACE	24/0	8d	3" o.c.	12" o.c.	HEM-FIR @ 16" o.c.	yes	3x	3x	(2) ROWS 16d @4"	(2) ROWS 16d @4"	5/8" @ 24" o.c.	564 PLF / 790 PLF	LTP5 @ 12" o.c.

#### NOTE:

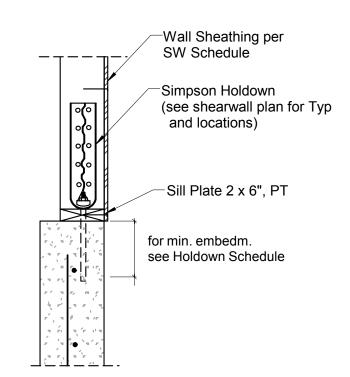
For all non-Shear Walls use nailing pattern, bolt and clip size/spacing for P1-6

## STRAP SCHEDULE

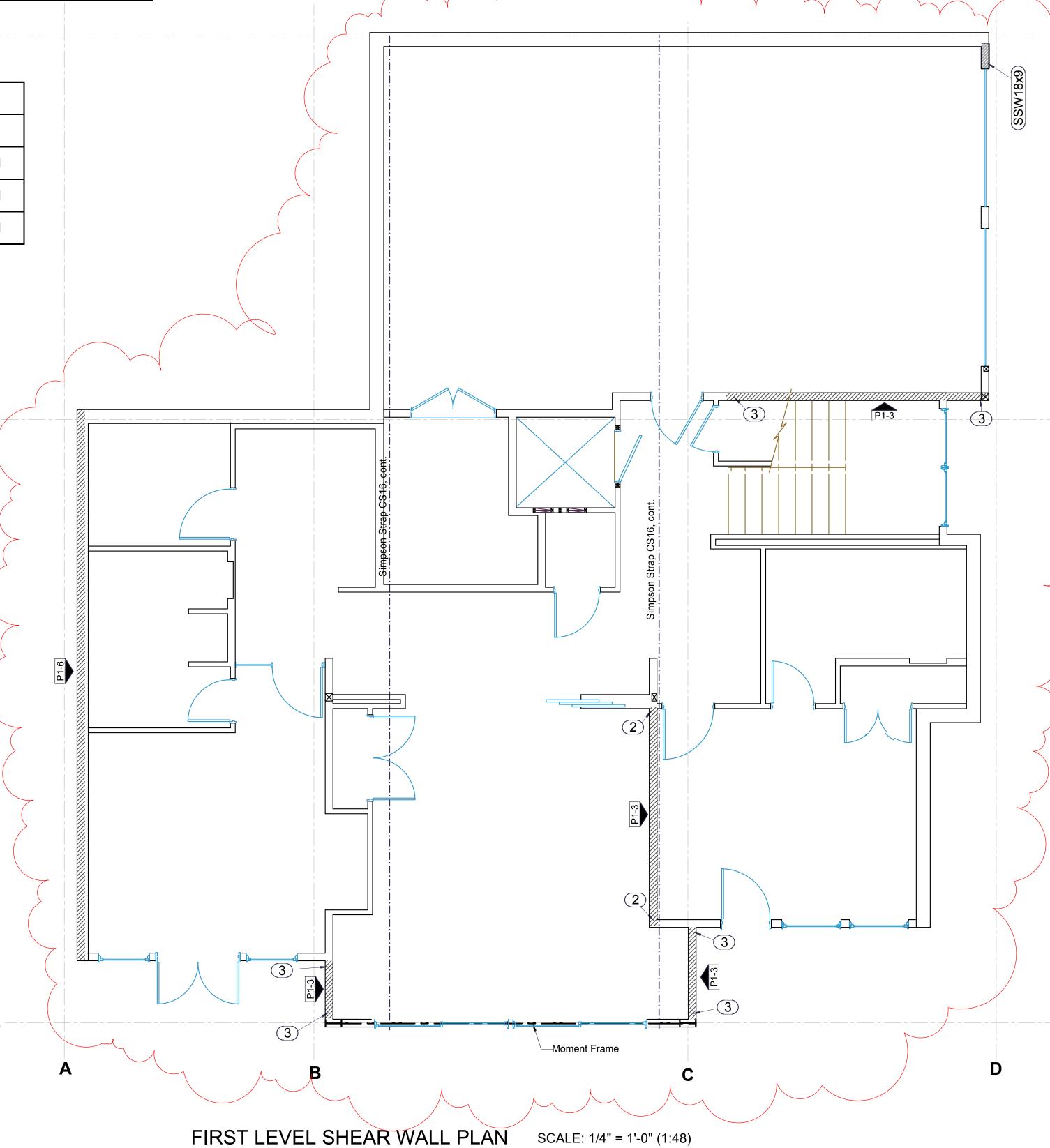
SYMBOL	STRAP	WOOD MEMBER	NAILS
A	MST48	(2) 2x	34 -16d
В	MST60	(2) 2x	46 - 16d
<u>C</u>	HTS20	(2) 2x	20 - 16d
D	MSTC66B3	(2) 2x	38 - 10d



## ANCHOR BOLT DETAIL (TYP.) SCALE: 1" = 1'-0" (1:12)



HOLDOWN DETAIL (TYP.) SCALE: 1" = 1'-0" (1:12)



HORIZONTAL DIAPHRAGM						
	THICKNESS & GRADE	SPAN	NAIL	NAILING		G
		INDEX	TYPE	BDRY	EDGE	FIELD
FLOOR NAILING	3/4" CDX T&G APA RATED/OSB	48/24	10d	6" o.c.	6" o.c.	12" o.c.
ROOF NAILING	7/16" APA RATED/OSB	24/0	8d	6" o.c.	6" o.c.	12" o.c.

#### SHEAR WALLS

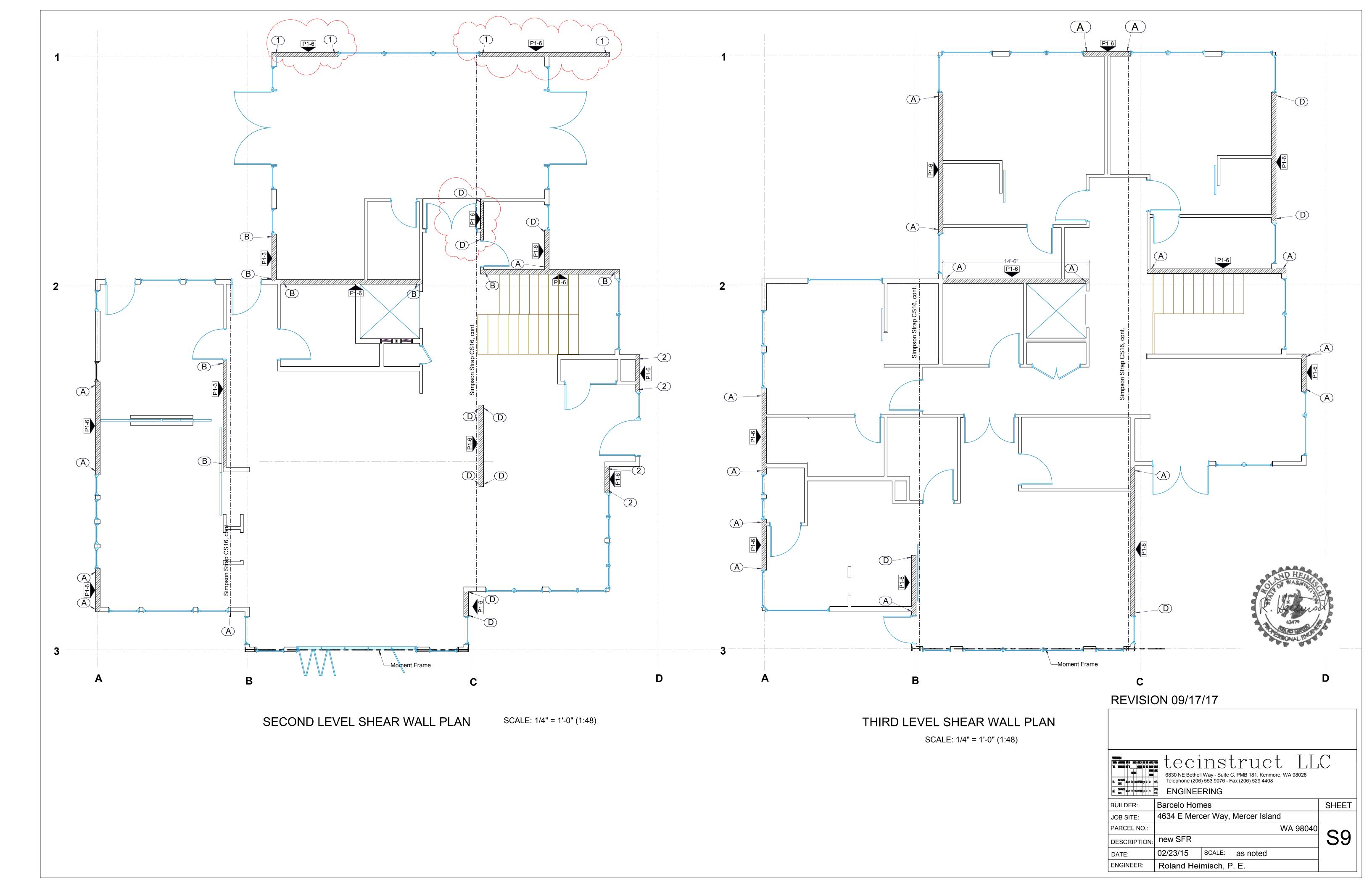
- 1. ALL SHEAR WALLS SHALL CONFORM TO IBC SECTION 23 REQMNTS. APPLY NAILING TO ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKINGS. SHEATHING SHALL BE INSTALLED VERTICALLY W/ 4x10 SHEETS FROM THE SILL PLATE AT THE FOUNDATION TO THE LOWER OF THE DOUBLED TOP PLATES AT THE MAIN LEVEL AND FROM THE UPPER OF THE DOUBLED TOP PLATES AT THE WALL TO THE TOP OF THE DOUBLED TOP PLATES AT THE UPPER LEVEL.
- 2. WHERE APA SHEATHING IS APPLIED ON BOTH FACES OF THE WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBER, OR FRAMING SHALL BE 3x NOMINAL AND NAILS ON EACH SIDE SHALL BE STAGGERED. WHERE ALLOWABLE SHEAR VALUES EXCEED 350 PLF (NAIL SPACING 4" OR LESS, OR SHEAR WALLS W/ PLYWOOD APPLIED ON EACH SIDE OF THE STUD WALL) FOUNDATION SILL PLATES AND FRAMING ABUTTING PANEL EDGES SHALL BE 3x NOMINAL OR (2) 2x W/ STAGGERED NAILING.
- 3. ABOVE LISTED ALLOWABLE SHEAR CAPACITIES ARE ADJUSTED FOR USE OF HEM-FIR STUDS, SPACED NO MORE THAN 16" O.C. AND SHEATHING APPLIED DIRECTLY TO FRAMING MEMBERS.
- 4. 14 GAUGE STAPLES W/ 7/16" CROWN AND 2" NOMINAL LEG LENGTH OR 0.131 DIA. P-NAILS W/ 2" NOMINAL LENGTH CAN BE SUBSTITUTED FOR 8D COMMON NAILS W/ REDUCED SHEAR CAPACITIES TO USE STAPLES. VERIFY W/ ENGINEER.
- 5. ALL FASTENERS SHALL BE DRIVEN FLUSH W/ SURFACE OF SHEATHING.
- 6. PROVIDE A SINGLE JOIST OR MIN. 2x SOLID BLOCKING BELOW AND AT THE TOP OF ALL SHEARWALLS.

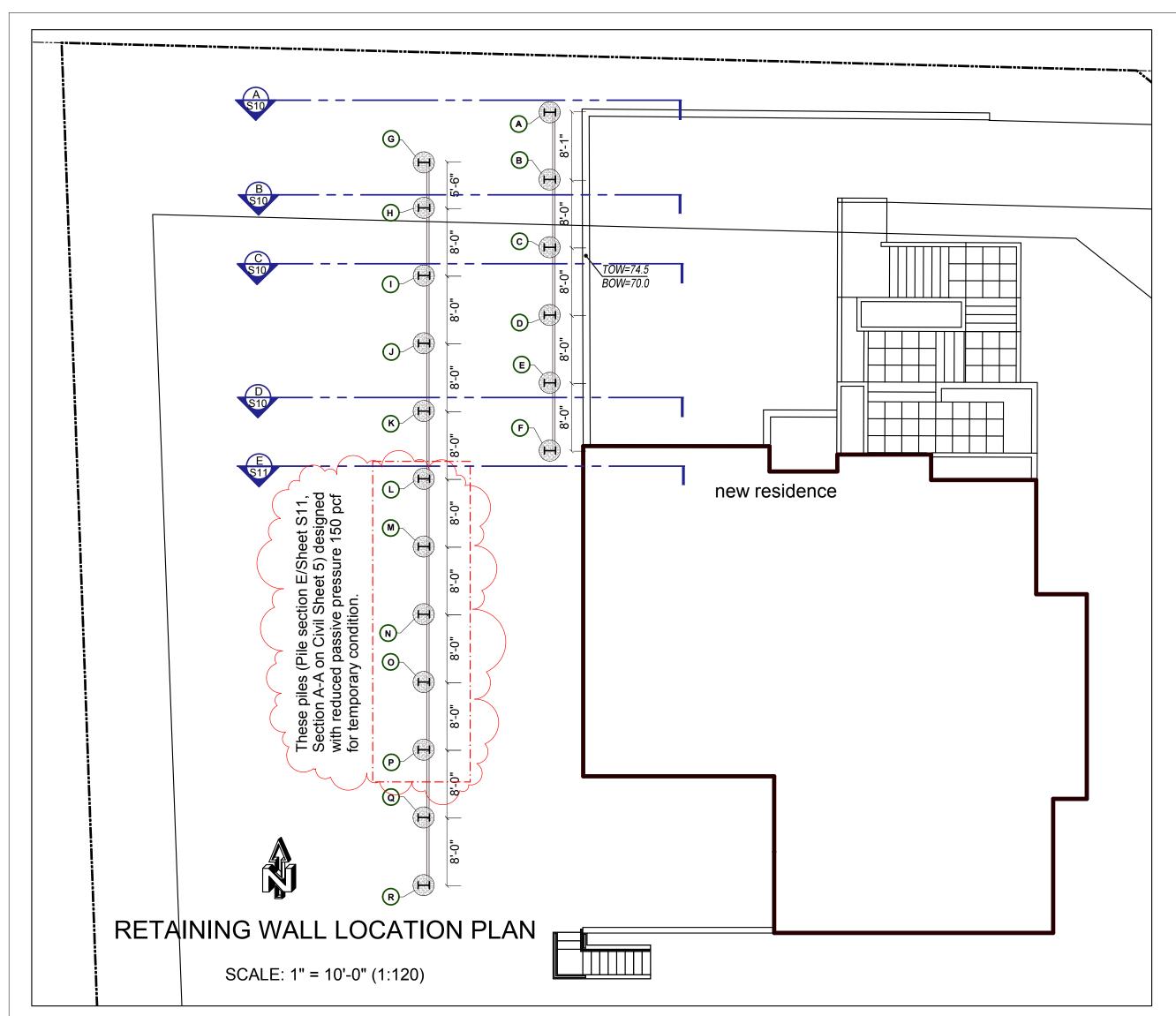


## **REVISION 06/18/17**

tecinstruct LLC
6830 NE Bothell Way - Suite C, PMB 181, Kenmore, WA 98028
Telephone (206) 553 9076 - Fax (206) 529 4408
ENGINEERING

BUILDER:	Barcelo Hom	nes			SHEE
JOB SITE:	4634 E Merc	er Way,	Mercer Islar	nd	
PARCEL NO.:				WA 98040	
DESCRIPTION:	new SFR				Sc
DATE:	02/23/15	SCALE:	as noted		
ENGINEER:	Roland Hei	misch, F	P. E.		



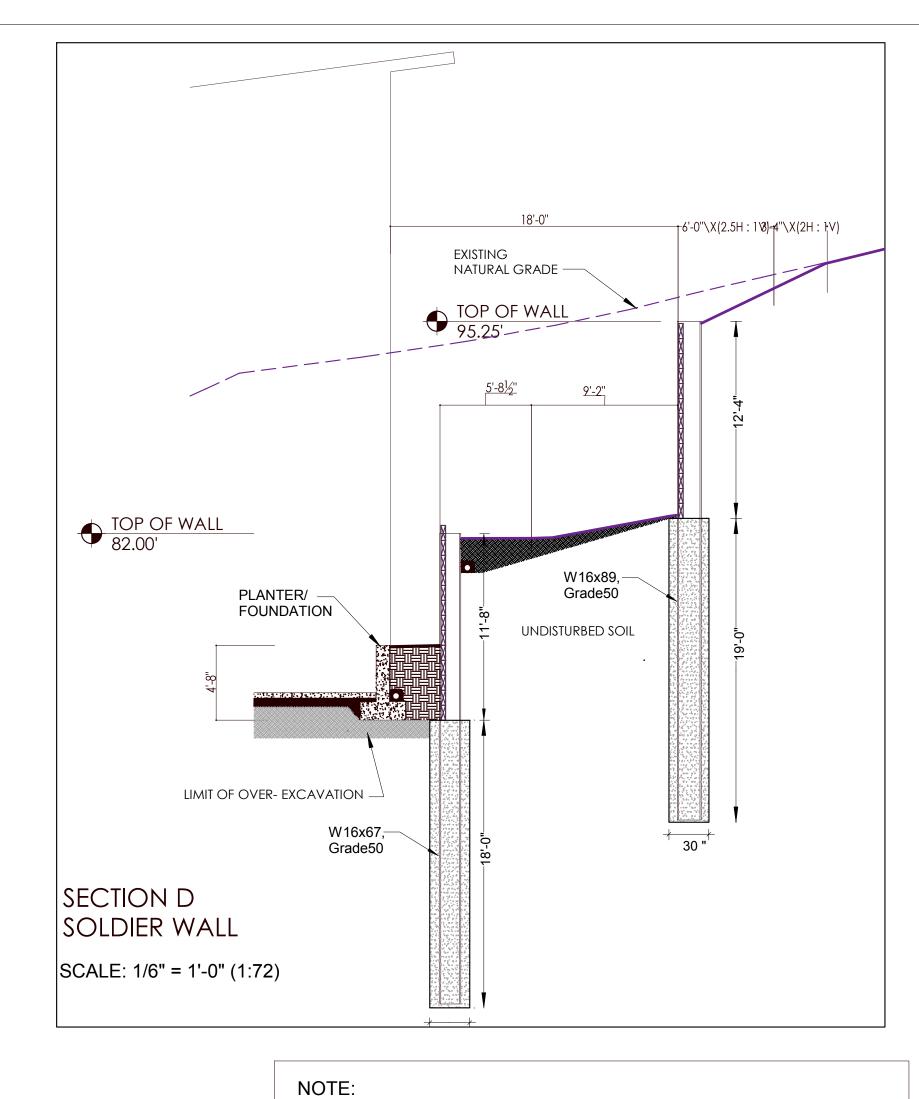


CONTRACTOR TO COORDINATE WITH ARCHITECT & STRUCTURAL ENGINEER ON ALL PENETRATIONS THROUGH RETAINING WALLS, PROVIDING SLEEVES WHERE SHOWN OR REQUIRED.

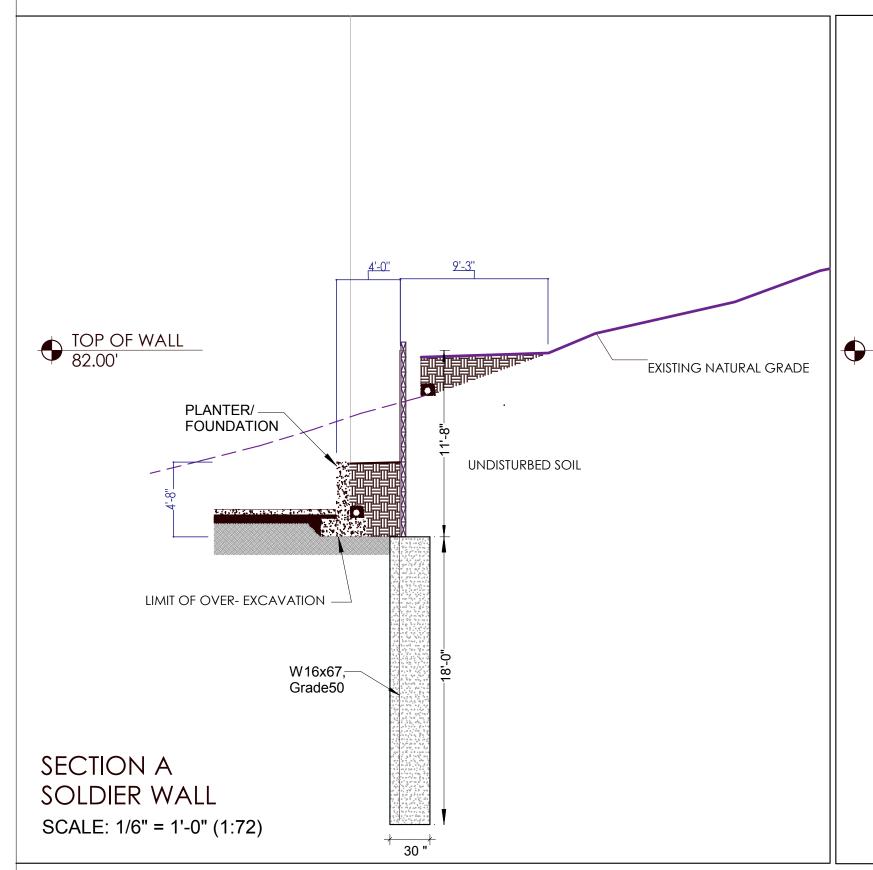
## PILE/LAGGING TABLE

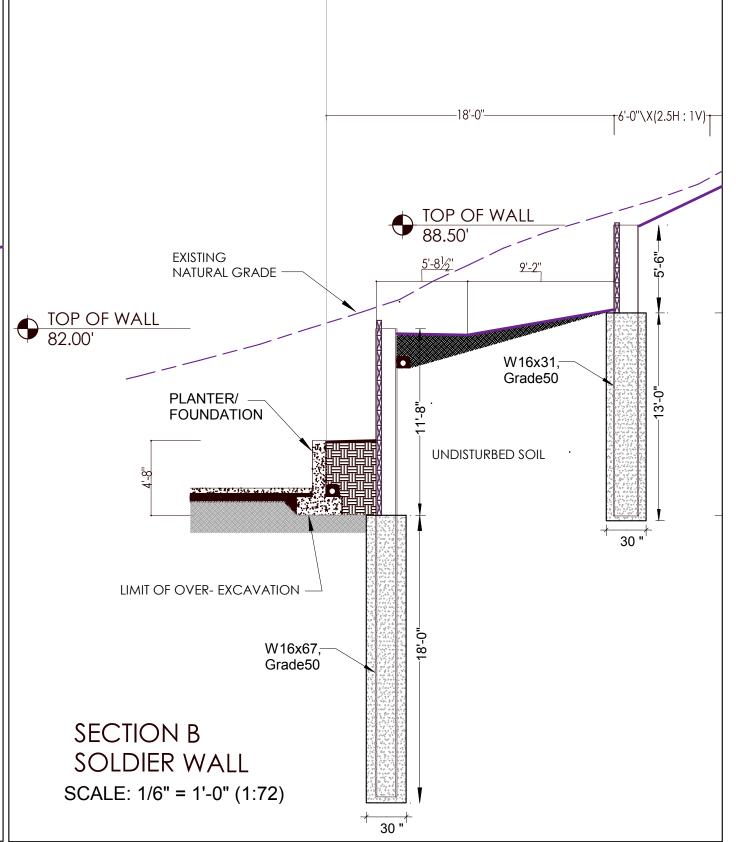
		PILE/	LAGGING	IABLE		
	TOP OF	TOP	BOTTOM	TOP	BOTTOM	MIN. PILE
	PILE	LAGGING	LAGGING	LAGGING	LAGGING	EMBEDMENT
		(N)	(N)	(S)	(S)	
		LOWER SO	LIDER PILES	S, SPACING	PER PLAN	
A	82.0	N/A	N/A	82.0	70.3	18ft
B	82.0	82.0	70.3	82.0	70.3	18ft
<b>(C)</b>	82.0	82.0	70.3	82.0	70.3	18ft
$(\overline{D})$	82.0	82.0	70.3	82.0	70.3	18ft
(E)	82.0	82.0	70.3	82.0	70.3	18ft
F	82.0	82.0	70.3	N/A	N/A	18ft
		UPPER SOI	LIDER PILES	, SPACING	PER PLAN	
G	86.0	N/A	N/A	86.0	83.0	13ft
$\overline{H}$	88.5	86.0	83.0	88.5	83.0	13ft
	91.75	88.5	83.0	91.75	83.0	14ft
J	91.75	91.75	83.0	91.75	83.0	14ft
(K)	95.3	91.75	83.0	95.3	83.0	19ft
L	95.3	95.3	83.0	95.3	83.0	28ft
(M)	95.3	95.3	83.0	95.3	83.0	28ft
$\overline{N}$	95.3	95.3	83.0	95.3	83.0	28ft
0	95.3	95.3	83.0	95.3	83.0	28ft
(P)	95.3	94.0	83.0	95.3	83.0	28ft
$\bigcirc$	94.0	94.0	83.0	91.75	83.0	28ft
(R)	91.75	91.75	83.0	N/A	N/A	28ft
_						

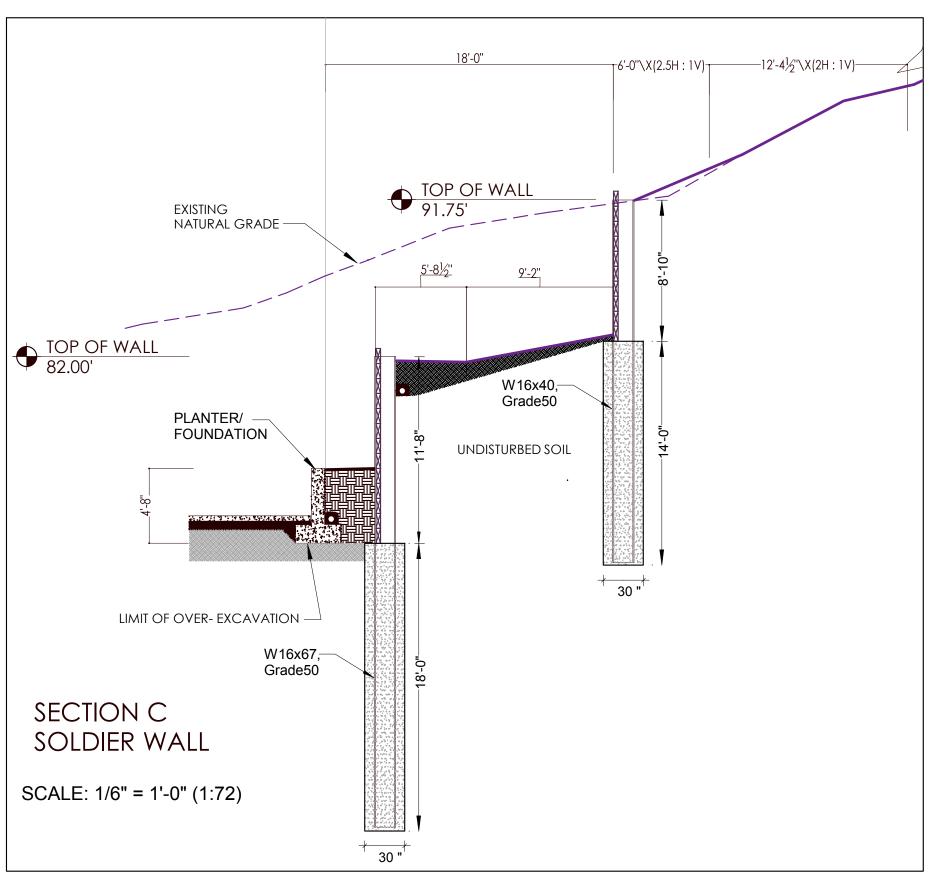
- ALL LAGGING TO BE PRESSURE TREATED.
- PILES SHALL BE COATED WITH CORROSION PROTECTION PAINT.
- USE CONCRETE fc = 2,500 psi TO EMBED PILES

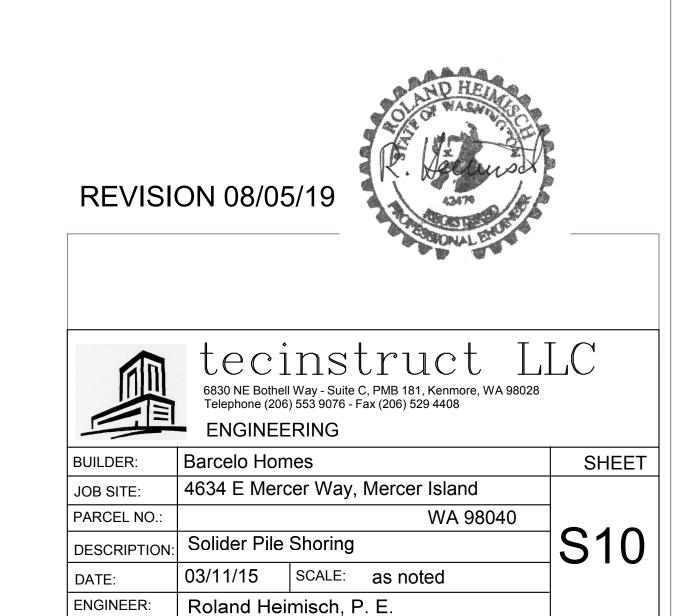


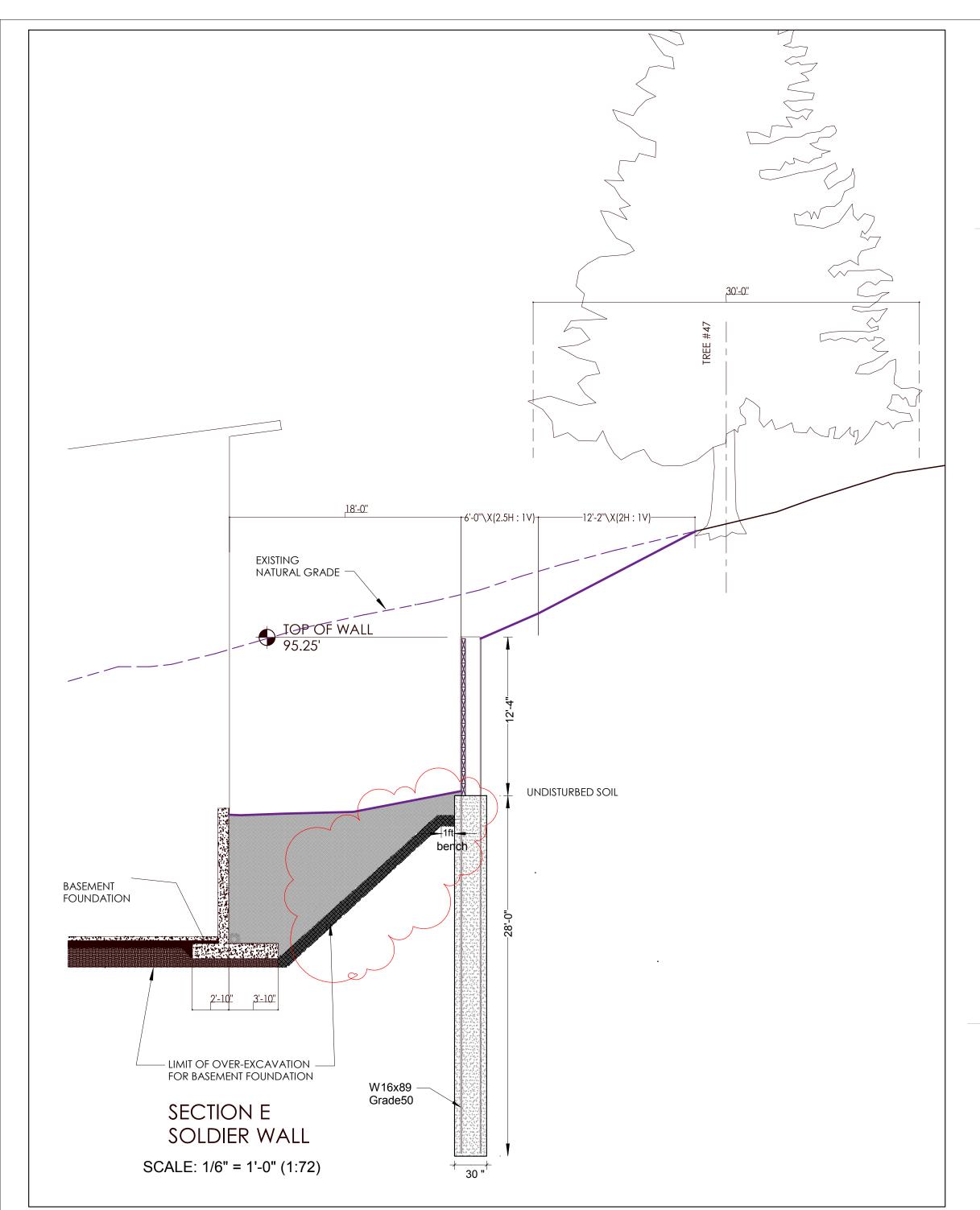
REFER TO GEOTECHNICAL REPORT ADDENDUM
EVALUATION OF SURCHARGE LOAD ON THE SOLDIER PILE WALL
PROPOSED SIGLE-FAMILY RESIDENCE
4634 E MERCER WAY, MERCER ISLAND, WA
FOR FURTHER INFORMATION.

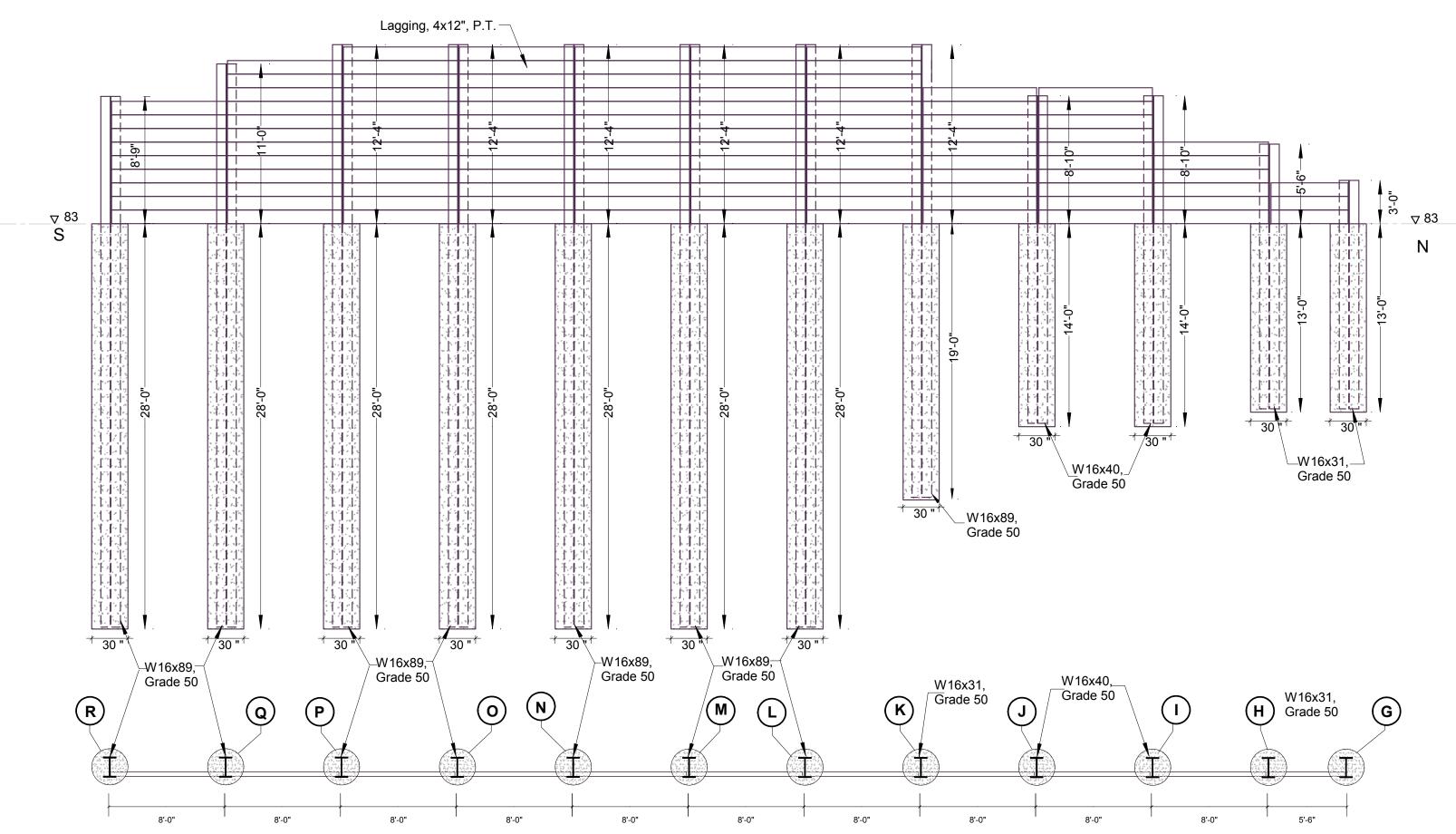






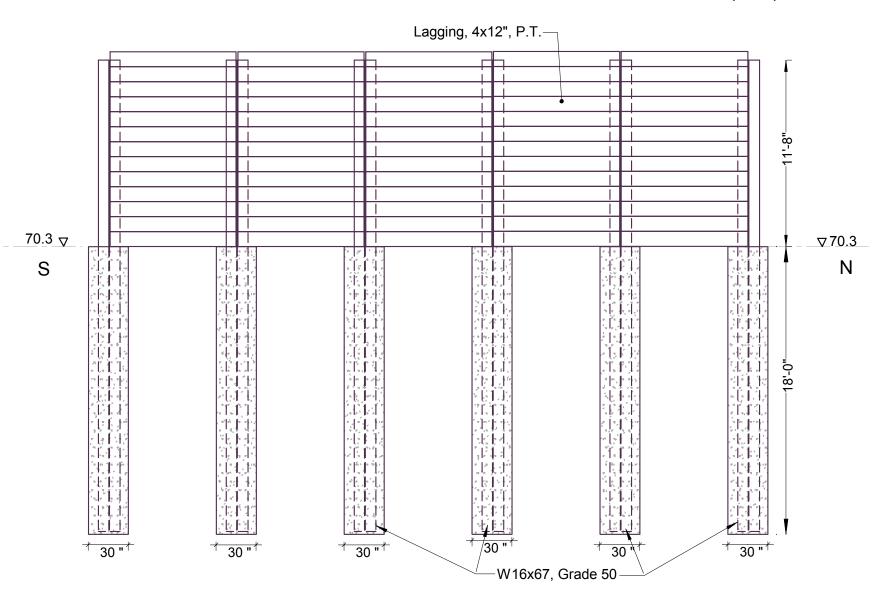






## UPPER LINE OF SOLDIER PILE SHORING

SCALE: 1/6" = 1'-0" (1:72)



F E D C B A

## LOWER LINE OF SOLDIER PILE SHORING

SCALE: 1/6" = 1'-0" (1:72)

KEY NO.	STRUCTURAL MEMBERS				
	FOUNDATION				
4.9	Lower soldier Pile Wall, all Sections, W16x67, Grade 50				
4.10	Upper Soldier Pile Wall, Section B, W16x31, Grade 50				
4.11	Upper Soldier Pile Wall, Section C, W16x40, Grade 50				
4.12	Upper Soldier Pile Wall, Section D, W16x89, Grade 50				
4.13	Soldier Pile Wall, Section E, W16x89, Grade 50				

## **REVISION 08/16/19**



	ENGINEE	RING		
BUILDER:	Barcelo Homes			SHE
JOB SITE:	4634 E Merc	er Way,	Mercer Island	
PARCEL NO.:			WA 98040	
DESCRIPTION:	Soldier Pile Shoring			$\Box$ S1
DATE:	03/11/15	SCALE:	as noted	
ENGINEER:	Roland Hei	misch, P	. E.	
		·	·	

## **Shoring Construction Sequence**

- 1. Grade and excavate to the top of the upper wall
- 2. Drill 2.5 ft dia. holes for upper wall to bottom of embedment and install steel piles
- 3. Dig soil in sections only deep enough to immediately install lagging Install lagging following the excavation to the top level of the lower wall
- 4. Drill 2.5 ft dia. holes for lower wall to bottom of embedment and install steel piles
- 5. Dig soil in sections only deep enough to immediately install lagging Install lagging following the excavation to the bottom level of the wall