

NOTES

SD = SMOKE DETECTOR, HARDWIRE, INTERCONNECTED w/ BATTERY BACK-UP CO = CARBON MONOXIDE DETECTOR, HARDWIRE w/ BATTERY BACK-UP

HD = HEAT DETECTOR, HARDWIRE, INTERCONNECTED w/ BATTERY BACK-UP

DOORS ARE 3-0 x 6-8 (r.o. = 3'-2" x 6'-10") unless otherwise indicated

S = FAN, 50 CFM UNLESS OTHERWISE INDICATED FOR SHEAR WALL INFORMATION SEE STRUCTURAL PLANS

ALL INTERIOR WALLS TO BE 2x4, EXTERIOR WALLS 2x6, EXCEPT AS INDICATED, OR EXISTING

E =EGRESS WINDOWS

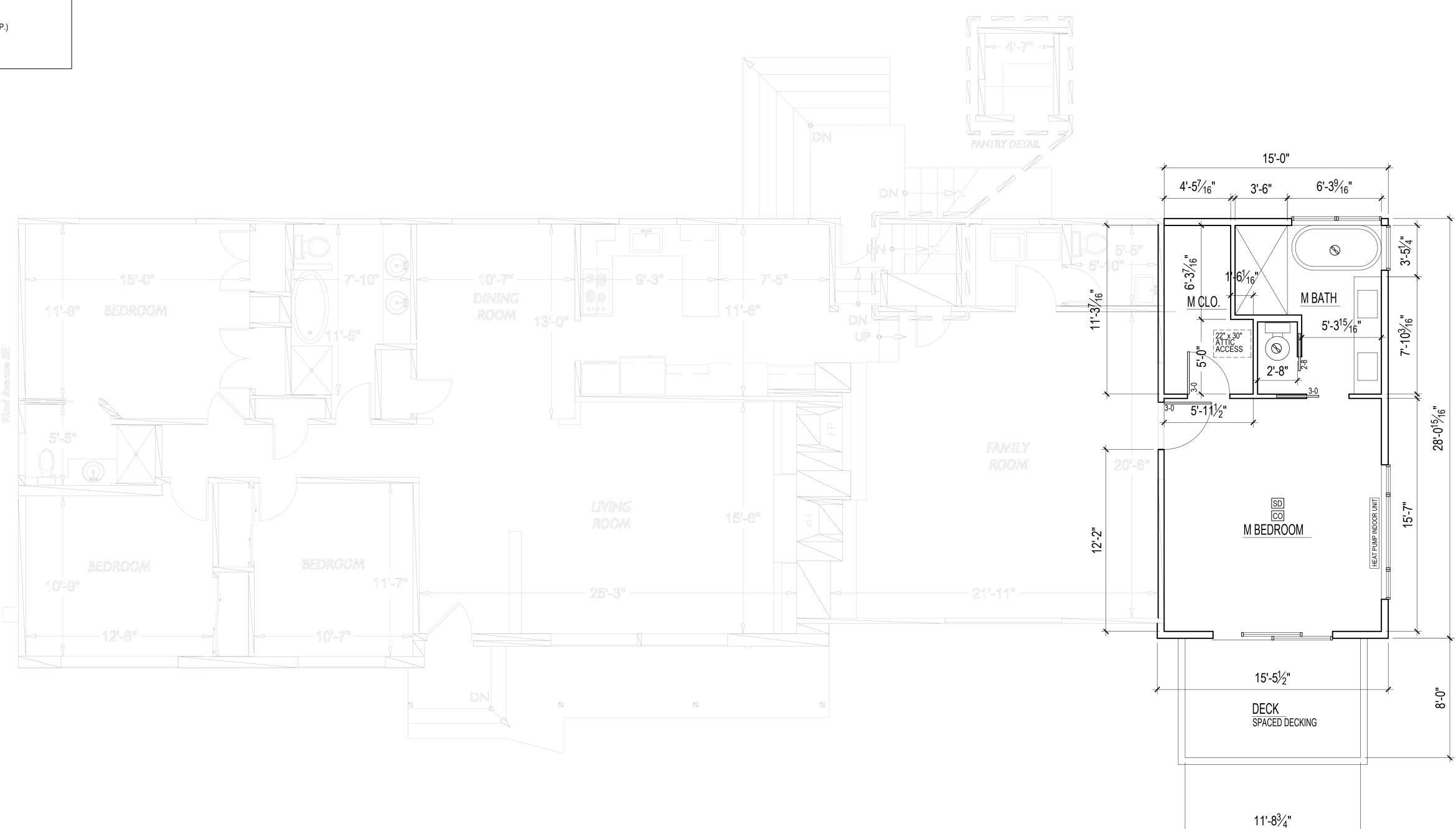
Contractor shall verify to Inspector all guards and railings shall be capable of resisting 200 lb load on top rail acting in any direction as required by IRC Table R301.5.

ALL WALLS FULL HIEGHT UNLESS OTHERWISE INDICATED

T) =TEMPER/SAFETY GLAZE WINDOWS (TEMPER ALL DOORS/SIDELIGHTS, TYP.)

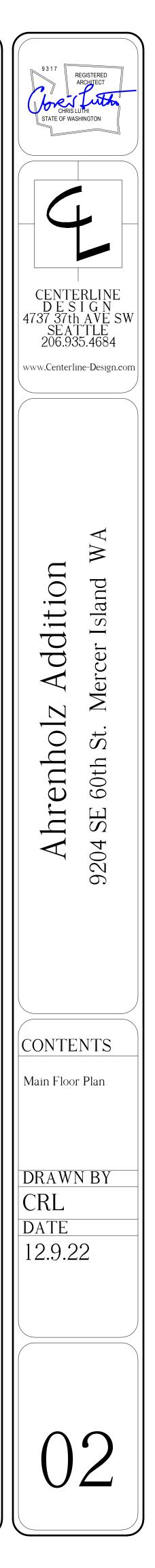
ALL GAS F.P. TO BE APPROVED DIRECT VENT U.L. APPROVED

(e) = EXISTING



A. MAIN FLOOR PLAN	NORTH
1/4" = 1'-0" EXISTING = 2197 sf (gross) NEW = 422 sf I.a. PROPOSED TOTAL = 2619 sf (gross - outside of walls)	

= existing



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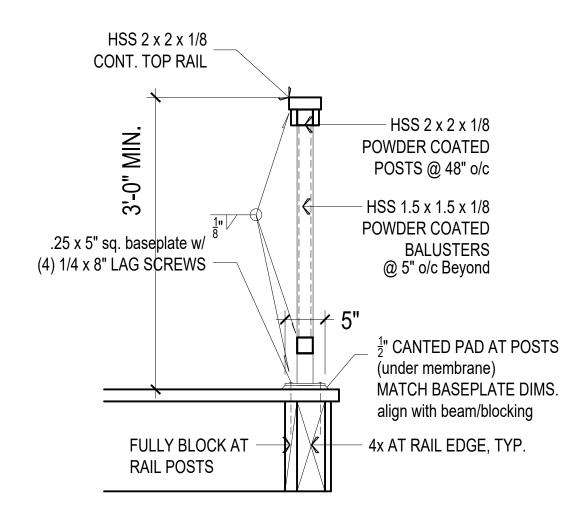
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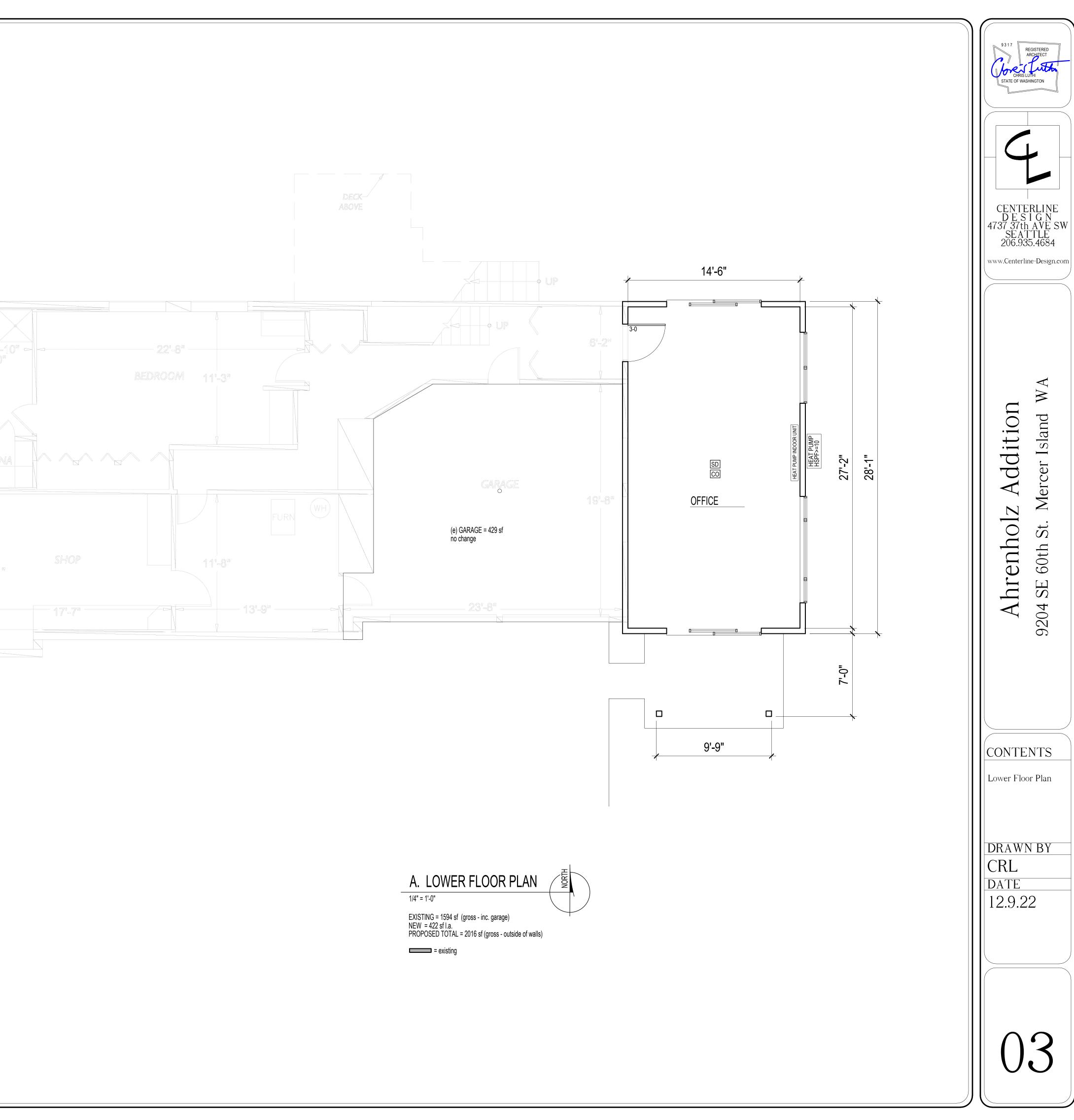
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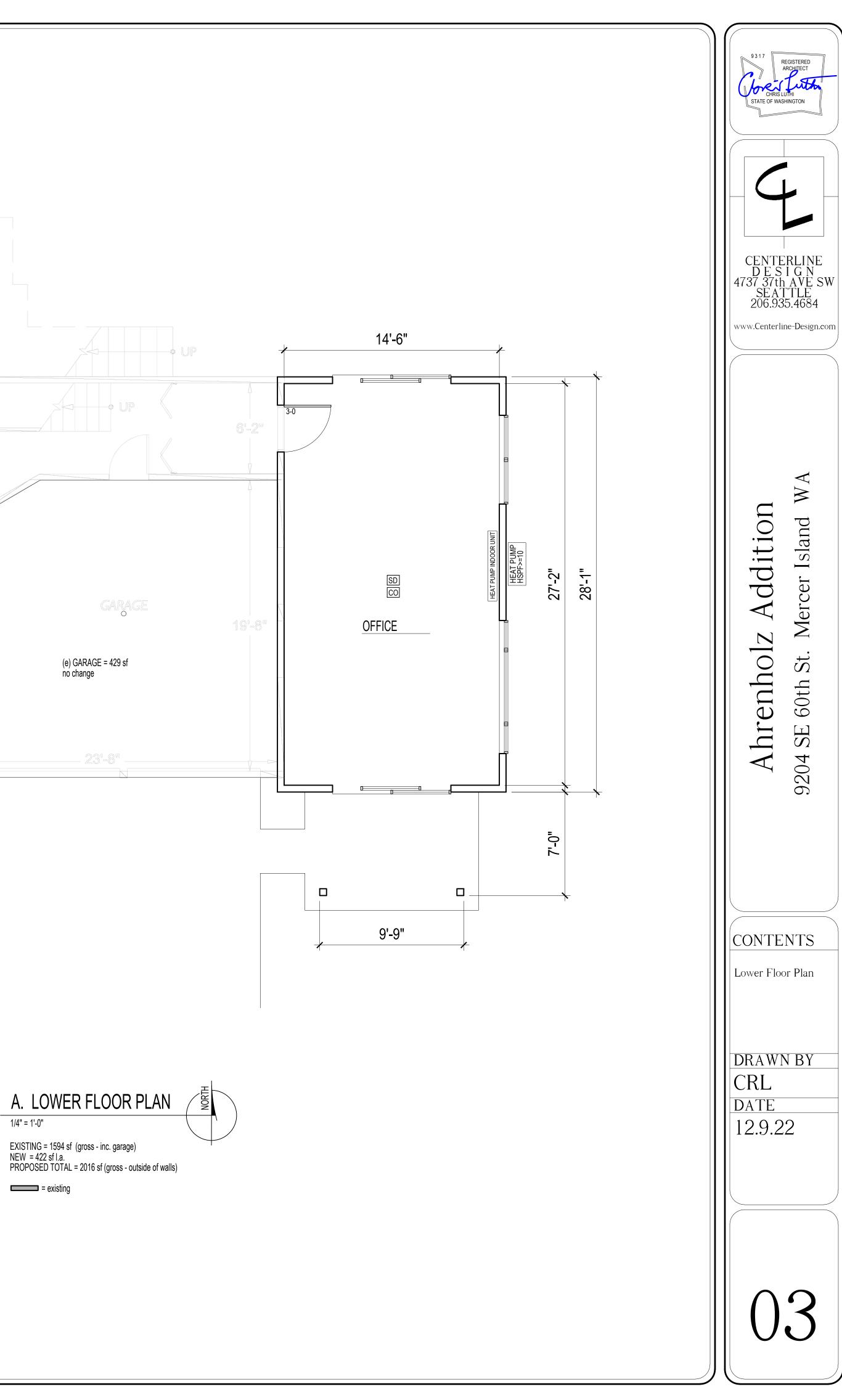
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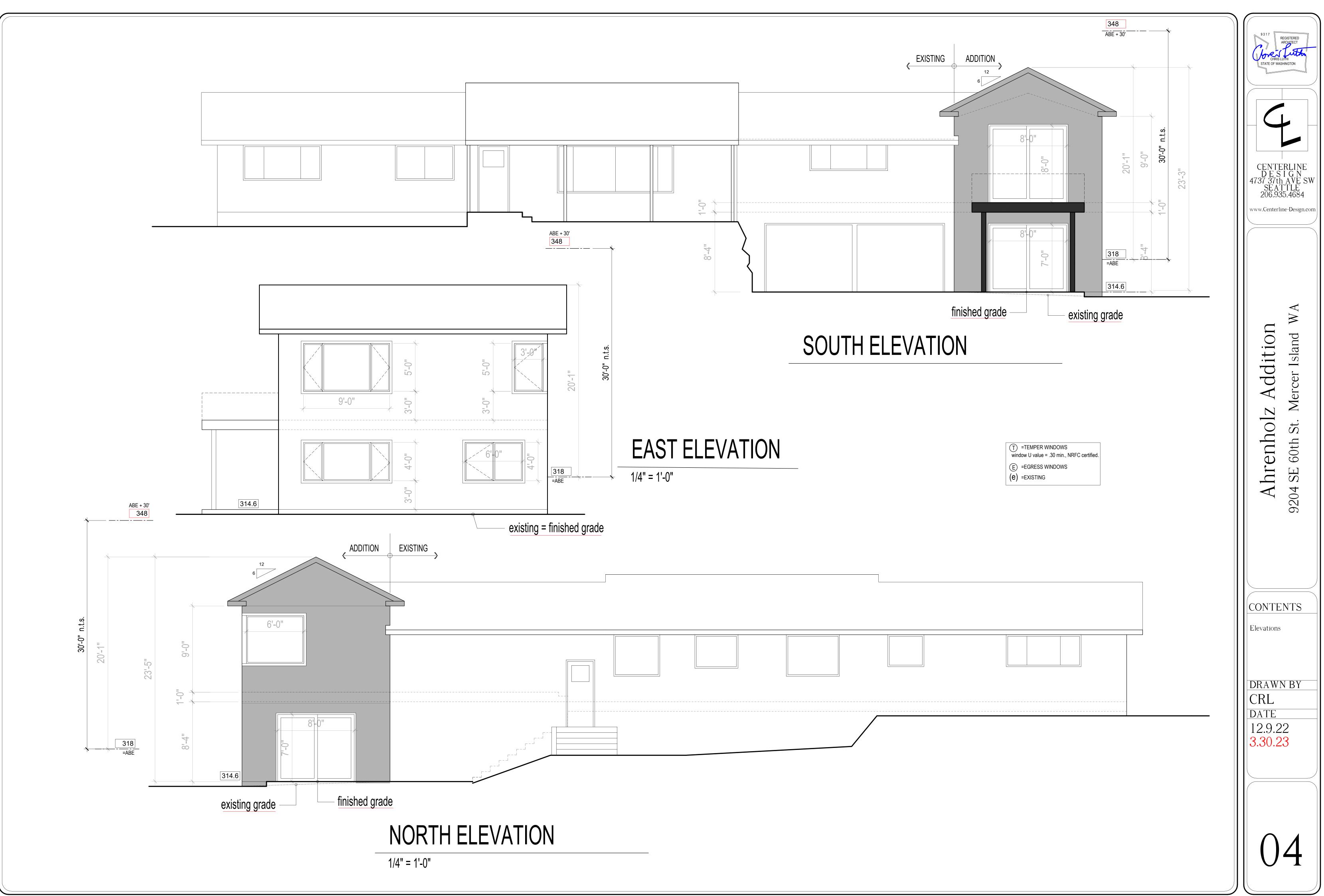
(e) = EXISTING





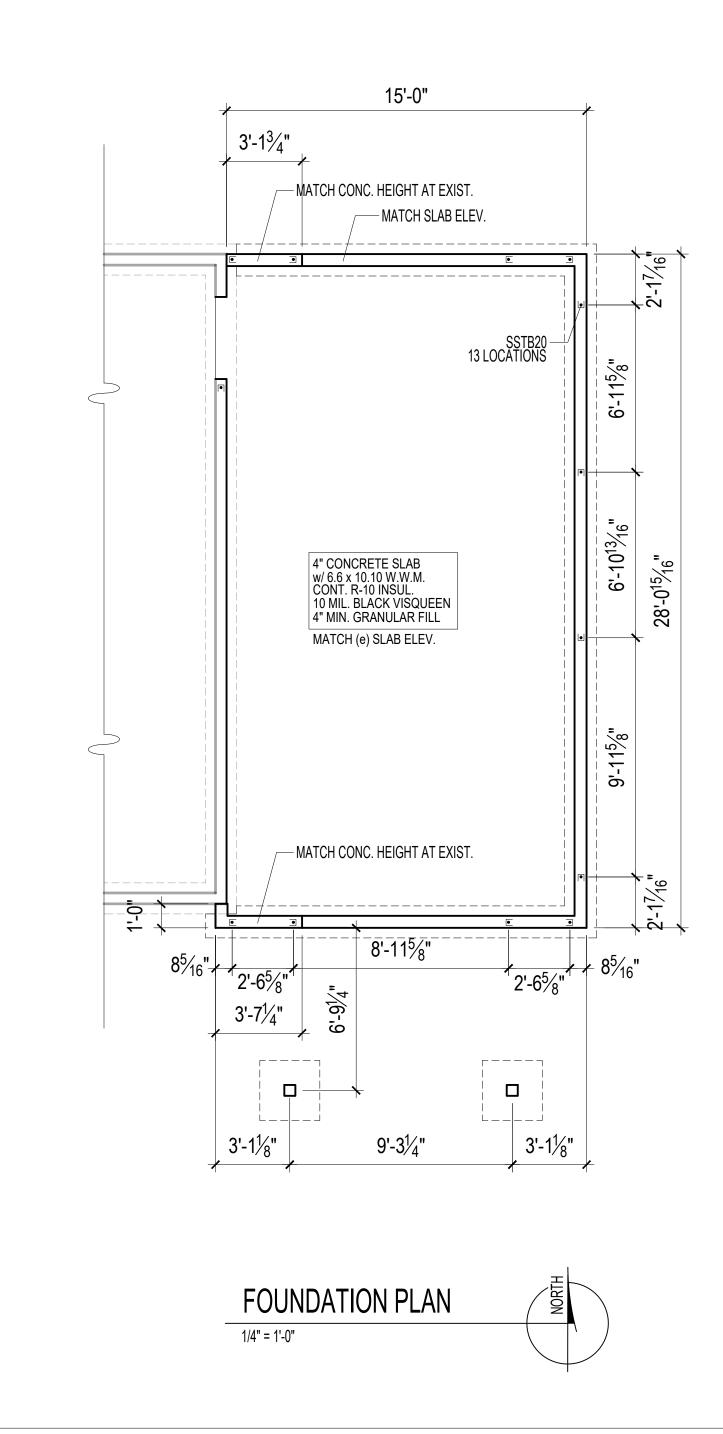


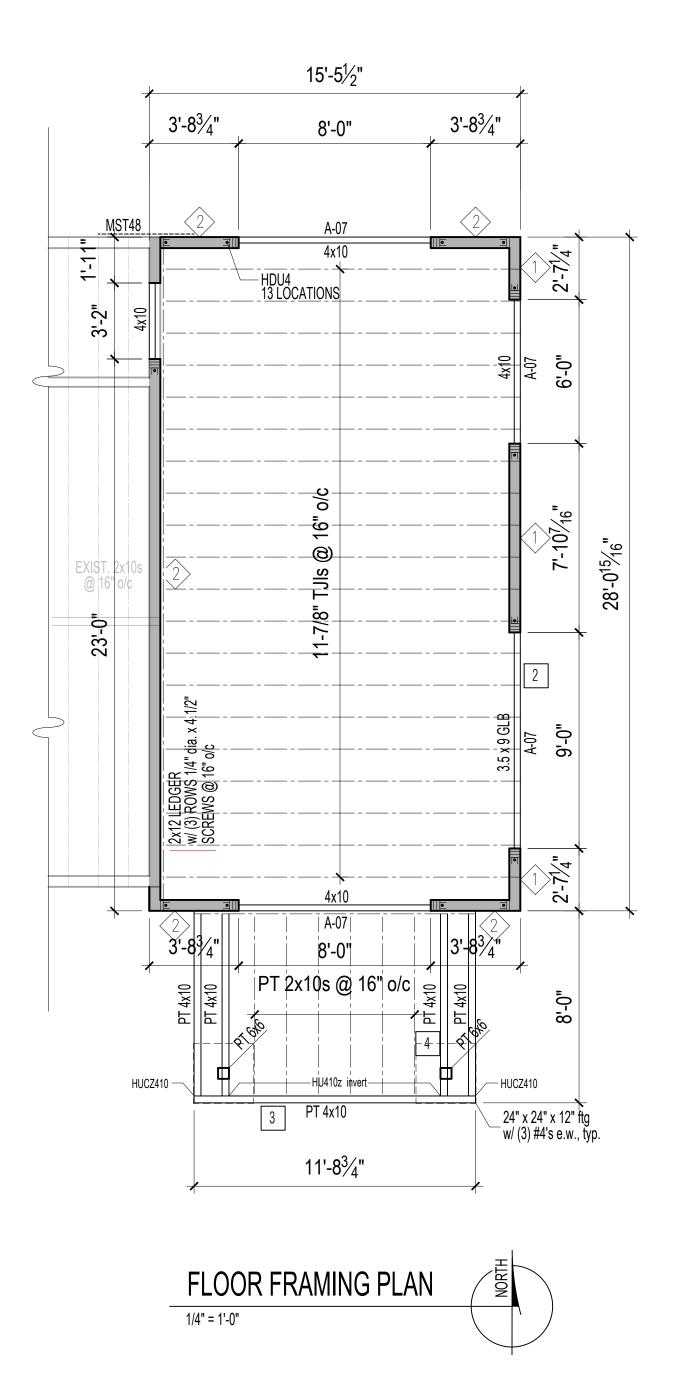




SHEET NOTES

X INDICATES BEAM NUMBER PER ENGINEERING CALCULATIONS = shear walls. per calculation, sheet all extoerior walls per (1) TRUSS MANUF. TO SUPPLY LATERAL BLOCKING AT ALL SHEAR WALL LOCATIO PROVIDE (2) 2X6's AT EACH BEAM/HEADER > 4' UNLESS OTHERWISE INDICAT ALL MEMBERS < 2" are HEM-FIR#2 UNLESS NON-STURCTURAL	FLOO EXTE ROO NS ROO	DR LIVE LOAD = 40 PSF DR DEAD LOAD = 15 PS RIOR DECK LIVE LOAD = F LIVE LOAD = 25 PSF F DEAD LOAD = 12.5 P	SF = 60 PSF
ALL MEMBERS > 2" are DOUG-FIR #2 MIN. UNLESS OTHERWISE INDICATED ALL "PT" MEMBERS ARE HF#2, PRESSURE TREATED. GLB's = 24F-1.8e (NO CAMBER) PSL = 2.0 e	ROOF DIAPHRA 1/2" (nom.) CDX 8d @ 6" o/c PANE 8d @ 12" o/c FIEL	EL EDGES AND BOUNDRIES	FLOOR DIAPHRA 3/4" T&G PW 8d @ 6" o/c PANE 8d @ 12" o/c FIELI
LVL = 2.0 e, Fb = 2500 MIN.	C		5





DIAPHRAGM G PW o/c PANEL EDGES AND BOUNDRIES 2" o/c FIELD

	SHEARWALL NAILING SCHEDULE			
MARK (SHEAR CAPACITY)	WALL TYPE	PANEL EDGE NAILING (1), (2)	INTERMEDIATE NAILING (2)	BOTTOM PLATE ANCHOR BOLTING OR NAILING (5)
(200 LB/FT)	1/2" CDX PLYWOOD OR OSB, ONE SIDE	8d @ 6" O.C.	8d @ 12"O.C.	1/2"A.B. @48"O.C. OR 16d @71/2"O.C.
(350 LB/FT)	1/2" CDX PLYWOOD OR OSB, ONE SIDE	8d @ 3 1/2" O.C.	8d @ 12" O.C.	5/8" A.B. @ 3'-4" O.C. OR 16d @ 4" O.C.
(700LB/FT)	1/2" CDX PLYWOOD OR OSB, BOTH SIDES	8d @ 4" O.C. (4)	8d @ 12" O.C.	3/4" A.B. @ 24"OC OR 16d @ 2"OC
(200/80LB/FT)(W/S	1/2" GWB, BOTH SIDES	5d COOLER NAILS	5d COOLER NAILS @ 7" OC	1/2" A.B. @ 48" O.C. OR 16d @ 8" O.C.

SHEAR WALL SCHEDULE NOTES:

1) BLOCK ALL PANEL EDGES 2) SEE NAILS – MINIMUM REQUIREMENTS

3) 2x STUDS SHALL BE HF#2 OR BETTER, KILN-DRIED

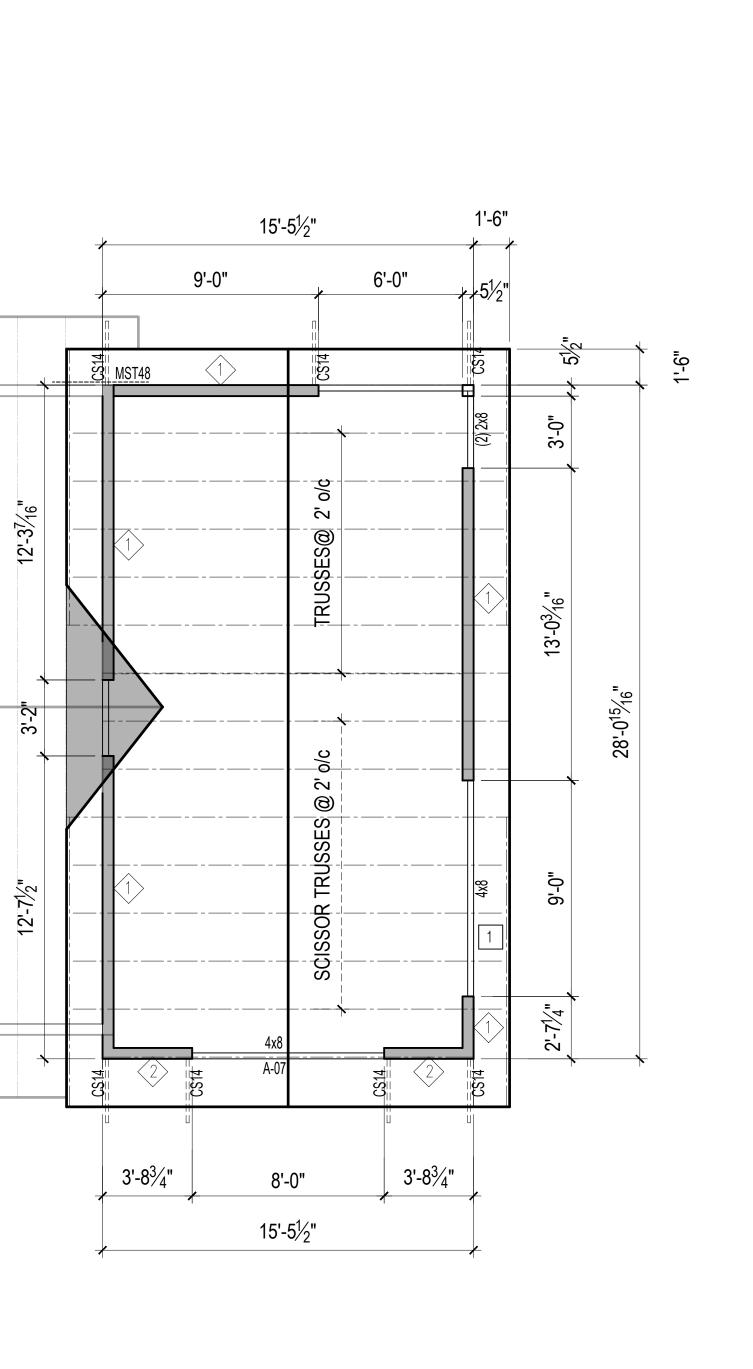
 USE 3x STUDS AND PLATES @ PANEL EDGES AT SHEARWALL 3 ONLY.

5) ANCHOR BOLTS SHALL HAVE MINIMUM 3" BY 3" BY

1/4" THICK PLATE WASHER. 6) 7/16" OSB MAY BE SUBSTITUTED FOR 1/2" CDX

7) sheath all exterior walls per (1) u.o.i.

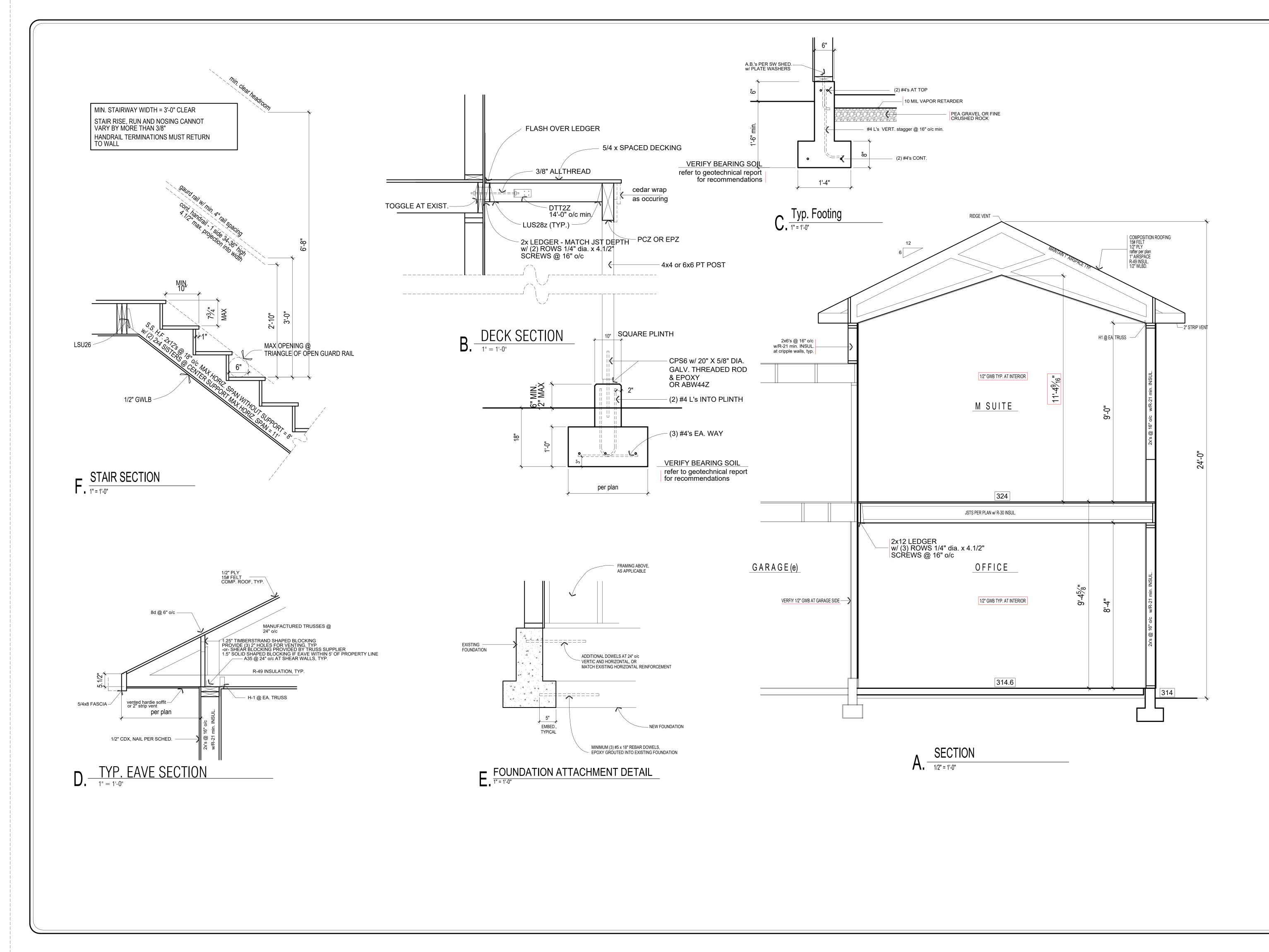
_____ = SHEAR WALLS PER CALCULATION

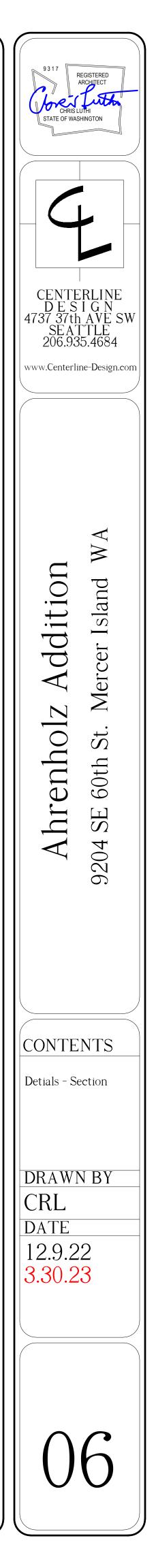


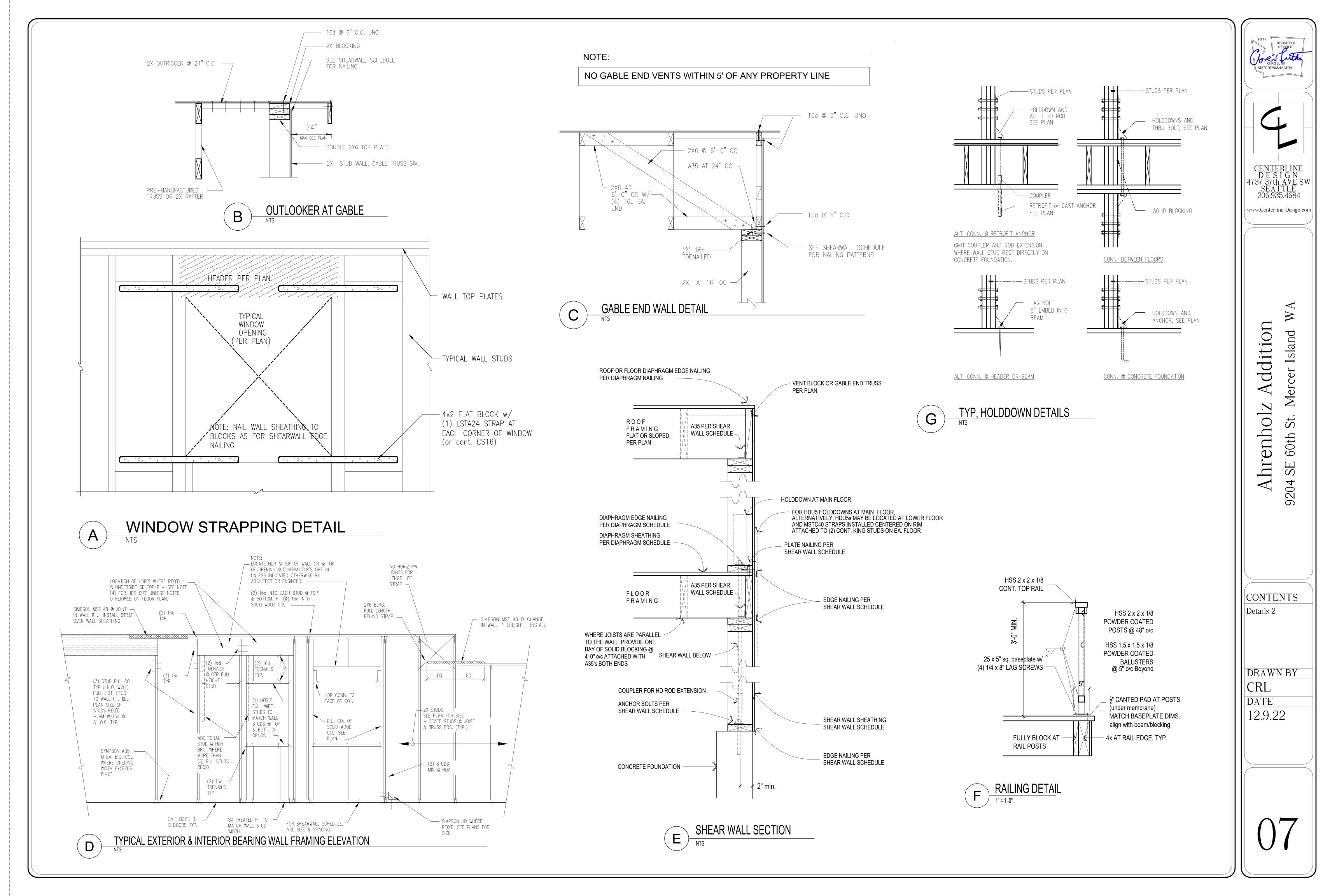
ROOF FRAMING PLAN

NAILS – MINIMUM REQUIREMENTS					
NAIL DESCRIPTION	MINIMUM WIRE DIAMETER	MINIMUM PENETRATION REQUIRED FOR LATERAL STRENGTH			
5d Cooler	0.086"	1.12"			
6d	0.099"	1.25"			
8d	0.113"	1.25"			
10d	0.128"	1.50"			
16d	0.141"	1.75"			

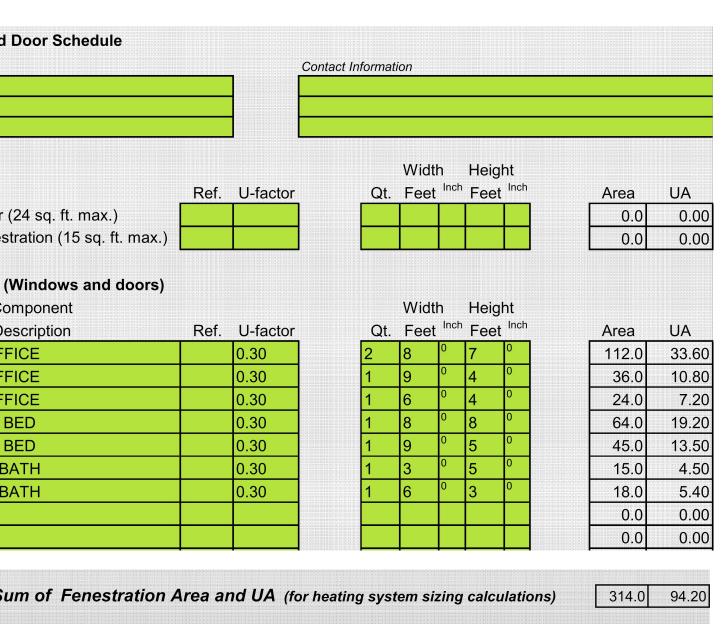
9317 REGISTERED ARCHITECT UNCHRIS LUTHI STATE OF WASHINGTON CENTERLINE DESIGN 4737 37th AVE SW SEATTLE 206.935.4684 www.Centerline-Design.com
Ahrenholz Addition 9204 SE 60th St. Mercer Island WA
CONTENTS Struct. Plans DRAWN BY CRL DATE 12.9.22 3.30.23
05







	2018 WA STATE PRESCRIF	TIVE PATH ESS THAN 1500 sf HEATED SPACE		Window, Skylig
	= 3 CREDITS REQ.			Project Information
	energy credit option credit	value summary		
	2 3.6	1 heat pump 2 mini-split		
	total credits	3		Exempt Swinging Exempt Glazed
	HVAC NOTES			Vertical Fenestr
		 SPF>10.0)		venical reliesu
	MINI-SPLIT HEAT PUMP (H HEAT RECOVERY VENTILA REQUIRED VENTING = CO	TION NTINUOUS 120CEM		
	SET TO OPERATE AT 240 (NTINUOUS 120CFM CFM FOR 2 HOURS IN EA. 4 HR PERIOD (50%) PEED HIGH EFF. FAN (MAX .35 WATTS/CFM)		
		AT LOW SPEED IN VENTILATION		
	MODE ONET.			
	GENERAL STRUC	TURAL NOTES		
	ULINLIAL SIKUC	IUNAL NUILS		
(THE	E FOLLOWING TO BE USED UNLESS N	OTED OTHERWISE ON THE PLANS)		
	ENERAL			Τα
TH	HE INTERNATIONAL BUILDING CODE	IGN AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS ANI (2018 EDITION). CONTRACTOR SHALL VERIFY DIMENSIONS AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO)	
CC	ONSTRUCTION. CONTRACTOR SHALL	D SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO . PROVIDE TEMPORARY BRACING FOR THE STRUCTURAL COMPONEI E BEEN COMPLETED IN ACCORDANCE WITH THE PLANS. CONTRACT		
SH PR	HALL BE RESPONSIBLE FOR ALL SAF ROCEDURES REQUIRED TO PERFORM	ETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES O HIS WORK. STRUCTURAL DESIGN OF THE BUILDING IS BASED ON	R	
RE	ESISTANCE TO DEAD LOADS, CODE S	PECIFIED LATERAL LOADS AND MAXIMUM EXPECTED SERVICE LOA TO LOADS WHICH WILL BE INDUCED BY ERECTION PROCEDURES.	DS.	
B. DI	ESIGN CRITERIA			design profess
RC	OOF LIVE LOAD: 25 PSF OOF DEAD LOAD: 12.5 PSF			shall complete
FL	LOOR LIVE LOAD (RESIDENTIAL): 40 LOOR DEAD LOAD: 15 PSF $Ss=1.4$	53		post an "Insula
SP	VIND: SIMPLIFIED METHOD PEED: 105 MPH (Basic) XPOSURE "B"	04		Residential Co
Кz ЕХ	zt = 1.0 XTERIOR DECK (RESIDENTIAL): 60 PS			of the electrica
SE	EISMIC: EQUIVÀLENT LATERÁL FOR ITE CLASS: D			final inspection
AI	LLOWABLE SOIL BEARING: 1500 PSF	(assumed)		
	ONCRETE			Per WSEC
		TRENGTH (fc) OF AT LEAST 3000 PSI, FOR WEATHERING. THE MIX		
RE	EQUIRED FOR DESIGN BASED UPON 2	ACKS OF CEMENT PER CUBIC YARD. NO SPECIAL INSPECTION OS 500 PSI STRENGTH. REINFORCING STEEL SHALL BE DEFORMED BAR: 3ARS SHALL BE GRADE 40, fy = 40 KSI. ALL #5 BARS SHALL BE GRAD		leakage to 2 signed by the
60 CC), fy = 60 KSI. LAP ALL CONTINUOUS ORNER BARS AT ALL WALL & GRADI	REINFORCING 30 BAR DIAMETERS OR 2' - 0' MINIMUM. PROVIDE BEAM INTERSECTIONS. ANCHOR BOLTS TO BE MINIMUM 5/8" DIA		(R402.4.1.2
	OLTS EMBED A MINIMUM OF 7". ARPENTRY			be capable
		AND MARKED IN CONFORMANCE WITH WCLIB STANDARD GRADIN	G	WSEC R40
RU	ULES FOR WEST COAST LUMBER, LA STUDS, PLATES & MISC. LT. FRAMI	TEST EDITION. FURNISH TO THE FOLLOWING MINIMUM STANDARDS		R404.1, A n
DO	EAMS AND HEADERS: OUG FIR # 2 SL BEAMS: 2.0E Fb = 2500 PSI			fixtures sha
1.2	LVL = 2.0e, Fb = 2500 LSL BEAMS: 1.55E Fb = 2325 PSI			11710123 2119
	GLB BEAMS: 24F-1.8e			
	OR APPROVED EQUAL, JOISTS SHAL	L BE AS MANUFACTURED BY TRUSS JOIST MACMILLAN CORPORATI L BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE		
	MANUFACTURER'S PUBLISHED SPEC			nestration U-Facto ylight U-Factor ^b
	ROOF SHEATHING: 1/2" PLY APA RA PANELS TO ALLOW FOR EXPANSION	TED SHEATHING (24 / 0). LAY UP WITH MINIMUM 1/8" CLEAR BETWE I. PROVIDE PLY CLIPS AT PANEL EDGES MIDWAY BETWEEN RAFTER	en s. Gla	azed Fenestration S
	UNLESS NOTED OTHERWISE ON THE	31) AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUP C PLANS. FLOOR SHEATHING: 3/4" CDX T&G MINIMUM APA RATED	Ce	iling ^e ood Frame Wall ^{g,h}
		JED. NAILING SHALL BE 10d COMMON (0.148) AT 6" O.C. AT PANEL EI PORTS UNLESS NOTED OTHERWISE ON THE PLANS. PLYWOOD SHAT ULAR TO SUPPORTS.		ood Frame wall by
		ACT WITH CONCRETE SHALL BE PRESSURE-TREATED.		low Grade Wall ^{c,h}
5.	NOTATIONS ON DRAWINGS RELATIN	NG TO FRAMING CLIPS, JOIST HANGERS AND OTHER CONNECTING		ib ^{d,f} R-Value & Dep <i>R</i> -values are mini
	COMPANY. EQUIVALENT DEVICES I	BERS OF CONNECTORS MANUFACTURED BY THE SIMPSON STRONG- BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THE R GREATER CAPACITIES. VERIFY THAT THE DIMENSIONS OF THE		than the label or
	SUPPORTING MEMBER ARE SUFFICE	ENT TO RECEIVE THE SPECIFIED FASTENERS.	op b	Table A101.4 sha The fenestration
	FRAMING DETAILS NOT SHOWN OT	OWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS: ALL WO IERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS O	F THE	"10/15/21 +5TB"
	INTERNATIONAL BUILDING CODE. 1 TABLE 2304.9.1 OF THE INTERNATIO	MINIMUM NAILING UNLESS OTHERWISE NOTED SHALL CONFORM TO NAL BUILDING CODE.		the interior of the
7.	ALL METAL FASTENERS IN CONTAC HOT-DIPPED ZINC COATED GALVAN	T WITH PRESSURE TREATED WOOD SHALL BE STAINLESS STEEL OR IZED STEEL.	C	the interior of the the interior of the
	STRUCTURAL STEEL			means R-5 therm
		HAPES SHALL CONFORM TO ASTM A-36, fy = 36 KSI, STRUCTURAL TU PADE R. $f_{V} = 46$ KSI	BING	R-10 continuous For single rafter-
E.	CILLI CONTORIA TO CONTRACTOR	KADE B, $TY = 40$ KSI.	e	extends over the
E. 1.	SHALL CONFORM TO ASTM A-500, G	MANCE WITH AISC AND AWS STANDARDS AND SHALL DE DEREONA	IED	exterius over the
E. 1. 2.	ALL WELDING SHALL BE IN CONFO	MANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORM G E70XX ELECTRODES. WELDS, UNLESS NOTED OTHERWISE, SHALL		R-7.5 continuous
E. 1. 2.	ALL WELDING SHALL BE IN CONFOI BY AWS CERTIFIED WELDERS USING	G E70XX ELECTRODES. WELDS, UNLESS NOTED OTHERWISE, SHALL		R-7.5 continuous slab insulation wl
E. 1. 2. 3.	ALL WELDING SHALL BE IN CONFOR BY AWS CERTIFIED WELDERS USING 3/16" CONTINUOUS FILLET WELDS. MACHINE BOLTS SHALL CONFORM	G E70XX ELECTRODES. WELDS, UNLESS NOTED OTHERWISE, SHALL	BE f	R-7.5 continuous slab insulation wl meet the require For log structures
E. 1. 2. 3. For dri	ALL WELDING SHALL BE IN CONFOI BY AWS CERTIFIED WELDERS USING 3/16" CONTINUOUS FILLET WELDS. MACHINE BOLTS SHALL CONFORM ¹ rilled holes into existing concrete, no less th ressed air and a wire brush before the ancho	G E70XX ELECTRODES. WELDS, UNLESS NOTED OTHERWISE, SHALL	BE f	R-7.5 continuous slab insulation w meet the require



or builder

ertificate for tion" within 3' l prior to

Maximum flow rates for shower heads and kitchen sink - 1.75 GPM or less. All other lavatory faucets - 1.0 GPM or less.

4, The building thermal Envelope shall be constructed to limit air changes per hour maximum. The results of the test shall be ty conducting the test and provided to the code official WSEC R403.1.1, at least one thermostat per dwelling unit shall ntrolling the heating and cooling system on a daily schedule. Per Ducts, air handlers, and filter boxes shall be sealed. Per WSEC um of 75 percent of the lamps in permanently installed lighting high-efficacy lamps.

All Climate Zones (Table R402.1.1)				
	R-Value ^a	U-Factor ^a		
	n/a	0.30		
	n/a	0.50		
b,e	n/a	n/a		
	49	0.026		
	21 int	0.056		
	30	0.029		
	10/15/21 int + TB	0.042		
	10, 2 ft	n/a		

U-factors and SHGC are maximums. When insulation is installed in a cavity that is less hickness of the insulation, the compressed *R*-value of the insulation from Appendix less than the *R*-value specified in the table.

r column excludes skylights.

R-10 continuous insulation on the exterior of the wall, or R-15 continuous insulation on r R-21 cavity insulation plus a thermal break between the slab and the basement wall at ent wall. "10/15/21 +5TB" shall be permitted to be met with R-13 cavity insulation on ent wall plus R-5 continuous insulation on the interior or exterior of the wall. "5TB" between floor slab and basement wall.

on is required under heated slab on grade floors. See Section R402.2.9.1. vaulted ceilings, the insulation may be reduced to R-38 if the full insulation depth te of the exterior wall.

on installed over an existing slab is deemed to be equivalent to the required perimeter lied to existing slabs complying with Section R503.1.1. If foam plastic is used, it shall or thermal barriers protecting foam plastics.

ped in compliance with Standard ICC 400, log walls shall meet the requirements for

g) denotes framing and insulation as described in Section A103.2.2 including standard ter, 78% of the wall cavity insulated and headers insulated with a minimum of R-10

Pervious Paver Info

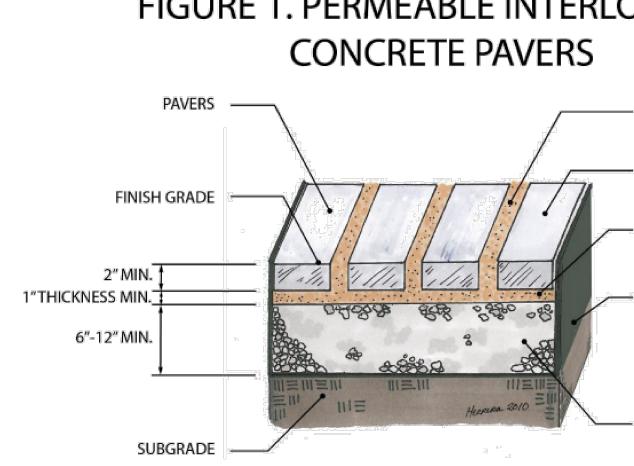
- saturated part of the year.
- rock.

- Limitations: 6.
 - fully stabilized.
 - b. practicable
 - C. impervious pavement area.
 - d. generally 12 percent.

- native soil infiltration rate.
- d.
- the pavers may be required.
- the reservoir
- pavers.
 - within one year.

 - recommendations.

d. Loss of joint fill – Refill per manufacturer's recommendations. **PERVIOUS CONCRETE BLOCK OR "PAVER SYSTEMS**



General: Installation must be in accordance with the manufacturer's requirements and specifications. 2. Subgrade: Compact the subgrade to the minimum necessary for structural stability. Use static dual wheel small mechanical rollers or plate vibration machines for compaction. Do not allow heavy compaction due to heavy equipment operation. The subgrade should not be subject to truck traffic. 3. Geotextile: Geotextile fabric shall be placed beneath the reservoir layer in areas where soil remains saturated part of the year, where there is soil freeze and thaw, or over clay and moist silty subgrade

soils. The geotextile fabric should pass water at a greater rate than the subgrade soils. 4. Underdrain: Provide an underdrain pipe when subgrade soils are poorly draining, or soils remain

5. Aggregate Materials (stone fill, leveling course, and base/sub-base reservoir layer): Use "open graded" rock containing only a small percentage of aggregate in the small range. Do not use round

a. Joint Fill – ASTM No. 8 washed crushed aggregate. ASTM No. 89 or No. 9 washed crushed aggregate may also be used. Minimum 1" to 2" thickness.

b. Leveling Course – Minimum 1" thickness washed sand or washed crushed aggregate

c. <u>Reservoir Course</u> – ASTM No. 57 crushed aggregate. Minimum 6" to 12" thickness depending on permeability of the subgrade soils.

If surface drainage comes from minor or incidental pervious areas, those areas must be

Slope adjacent impervious surfaces away from the pavers to the maximum extent

Sheet flow from up-gradient impervious area is not recommended, but permissible if the area of permeable interlocking concrete pavers is greater than or equal to the

The maximum installed slope of the permeable interlocking concrete pavers is

7. **Protection:** After work is complete, the contractor shall be responsible for protecting work from sediment deposition and damage due to subsequent construction activity on the site.

a. Keep heavy equipment off existing soils underneath the proposed paver area to preserve the

b. Do not allow muddy construction equipment on the base material or pavers.

c. Do not allow sediment-laden runoff onto the pavers.

The contractor shall be responsible for protecting work from sediment deposition and damage due to subsequent construction activity on the site.

8. **Improper Installation**: Pavers fouled with sediments or no longer passing an initial infiltration test (ASTM C1781) must be cleaned using procedures recommended by the paver manufacturer. If cleaning does not restore infiltration rates or other construction issues have been observed, reinstallation of

9. **Inspections**: The contractor shall call for inspection of the subgrade preparation prior to placement of

course and for a subsequent inspection of the reservoir course placement prior to installation of

10. **Maintenance**: Homeowners must adequately maintain their permeable block pavements. Over time, the space between the pavers will tend to clog.

a. Annual inspections - Conduct periodic visual inspections to determine if surfaces are clogged with vegetation or fine grained sediment. If water runs off the pavement and/or there is ponding during a rain event, then the surface may be clogged. Clogged surfaces should be corrected

b. Routine surface cleaning – Surfaces should be cleaned with a ShopVac, brush broom, or walkbehind vacuum annually. Surface cleaning is recommended twice per year; preferably, once in the autumn after leaf fall, and again in early spring.

c. Damaged pavers – Remove individual pavers by hand and replace or repair per manufacturer's

FIGURE 1. PERMEABLE INTERLOCKING

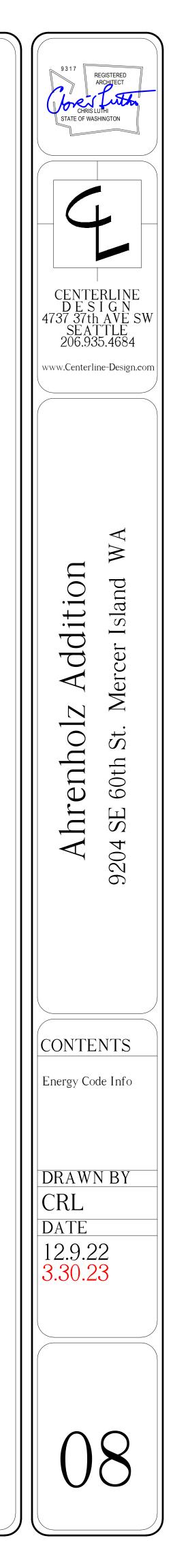
JOINT FILL: ASTM NO. 8, NO. 89, OR NO. 9

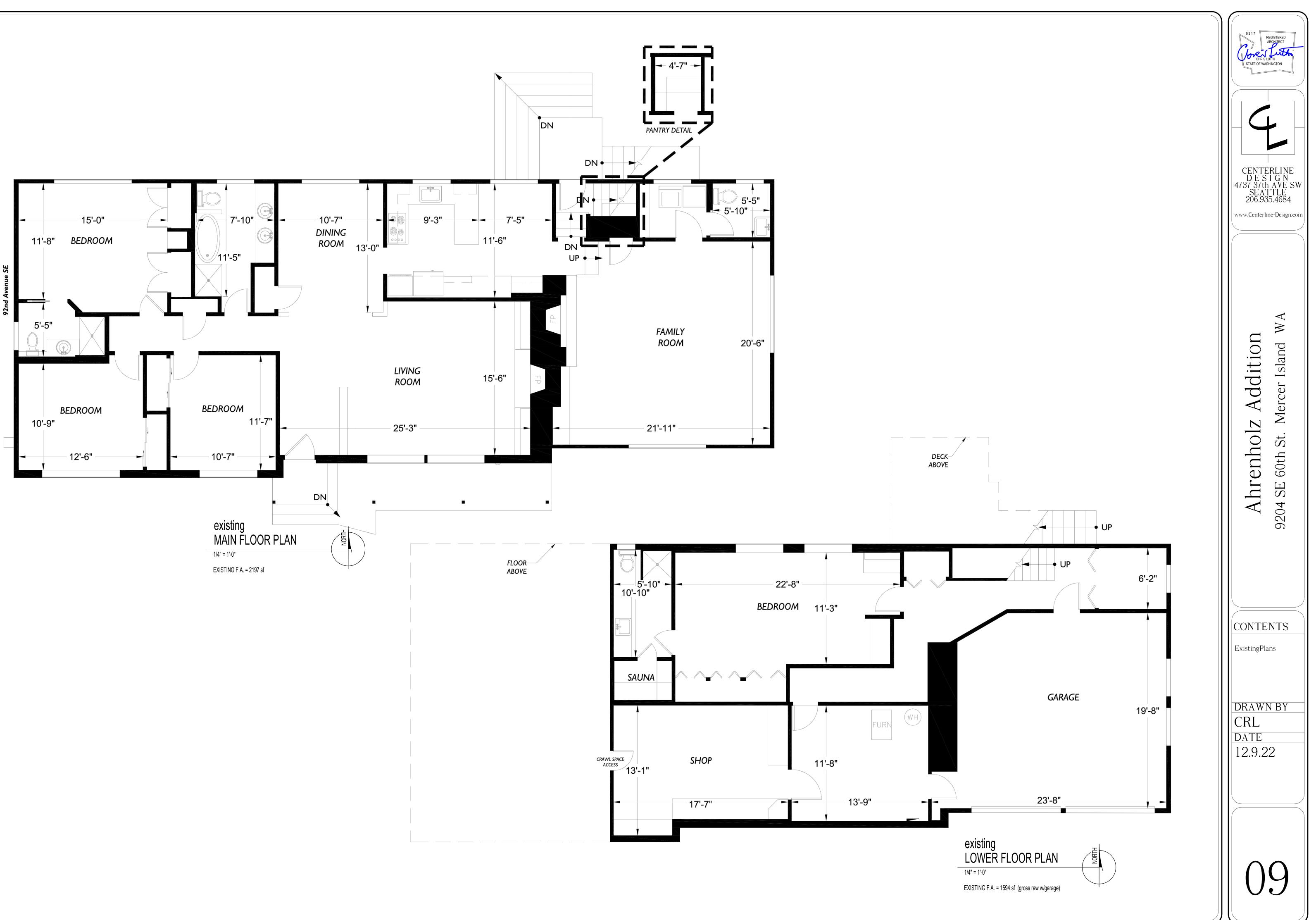
WEARING COURSE

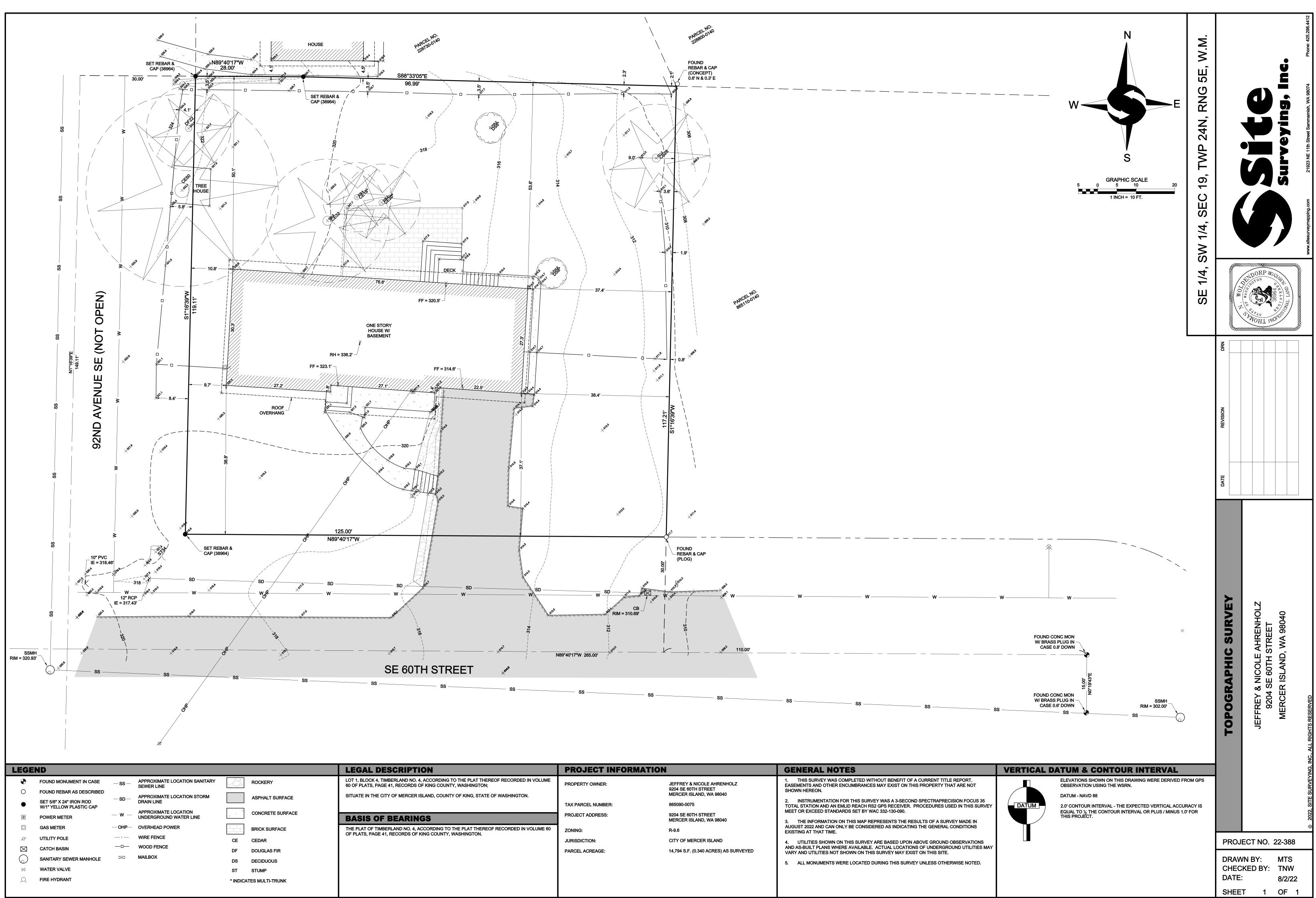
LEVELING COURSE: ASTM NO. 8, NO. 89, OR NO. 9

NON-WOVEN GEOTEXTILE BOTTOM AND SIDES (OPTIONAL). EXTEND GEOTEXTILE ABOVE PAVERS. AFTER INSTALLATION IS COMPLETE, CUT GEOTEXTILE AT FINISHED GRADE (TYP.)

ESERVOIR COURSE ASTM NO. 57







N	PROJECT INFORMATION		GENERAL NOTES	
ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME KING COUNTY, WASHINGTON; AND, COUNTY OF KING, STATE OF WASHINGTON.	PROPERTY OWNER:	JEFFREY & NICOLE AHRENHOLZ 9204 SE 60TH STREET MERCER ISLAND, WA 98040	1. THIS SURVEY WAS COMPLETED WITHOUT BENEFIT OF EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST ON TH SHOWN HEREON.	
	TAX PARCEL NUMBER:	865090-0075	2. INSTRUMENTATION FOR THIS SURVEY WAS A 3-SECON TOTAL STATION AND AN EMLID REACH RS2 GPS RECEIVER. MEET OR EXCEED STANDARDS SET BY WAC 332-130-090.	
S	PROJECT ADDRESS:	9204 SE 60TH STREET MERCER ISLAND, WA 98040	3. THE INFORMATION ON THIS MAP REPRESENTS THE RE	
CORDING TO THE PLAT THEREOF RECORDED IN VOLUME 60	ZONING:	R-9.6	AUGUST 2022 AND CAN ONLY BE CONSIDERED AS INDICATIN EXISTING AT THAT TIME.	
	JURISDICTION:	CITY OF MERCER ISLAND	4. UTILITIES SHOWN ON THIS SURVEY ARE BASED UPON	
	PARCEL ACREAGE:	14,794 S.F. (0.340 ACRES) AS SURVEYED	AND AS-BUILT PLANS WHERE AVAILABLE. ACTUAL LOCATION VARY AND UTILITIES NOT SHOWN ON THIS SURVEY MAY EXIS	
			5. ALL MONUMENTS WERE LOCATED DURING THIS SURVE	