### Wall Types

Exterior walls 2x6 wood stud Interior walls 2x4 wood stud, unless noted otherwise

### Wall Keys

2x wood studs on the flat

(3) 2x3 wood stud wall, 16" oc

(6) 2x6 wood stud wall, 16" oc

Note: 2x4 wood stud wall, 16" oc unless otherwise noted

### **Kev Notes**

30" x 22" Minimum Attic Access Panel - Insulated (RO 34" x 26")

Field locate for plumbing or mechanical

Verify size of fixture or appliance Adjust dimensions to accommodate Snug - Door or Window trim will be snug

and may need to be cut down C center

Center - Place door or window centered

Double Stud or structural mull – adapt to suit chosen window brand. Object is to have some "bite" for curtain hardware and exterior aesthetics.

(SD)Smoke Detector

(CO) Carbon Monoxide Detector

Heat Detector

### **Dimensions**

Dimensions are to face of stud, unless noted otherwise. Closets are 24" clear inside, unless dimensioned otherwise.

### Square Footages

- 2. Cabinets and fixtures not subtracted.
- 3. Add for doorways when floor finishes run through.

### <u>Notes</u>

- 3 Roof see structural for rafter sizes. Provide 5/8" exterior rated roof sheathing 15# roofing felt, ice & water shield at eaves and valleys, aluminum drip edge and asphalt shingles or metal roofing. Structure not calculated to support slate or tile. Flash all penetrations. Provide
- 5 Provide smoke detectors where shown, where required by code and where required by local authorities.
- Type X drywall on walls and ceilings to separate garage (where garage present in design) from dwelling, and separation of dwellings (where more than one dwelling present in design), and protection of flammable insulation materials. See Table R306.6 IRC 2015.
- drywall on walls and 1/2" drywall on 3/4" strapping on
- clear roofs. Where approx 84" head height is called for,

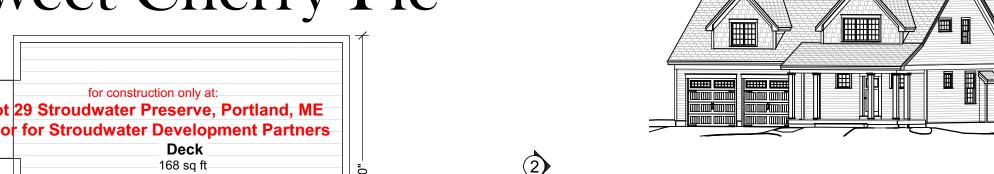
These drawings are intended for use by an experienced professional

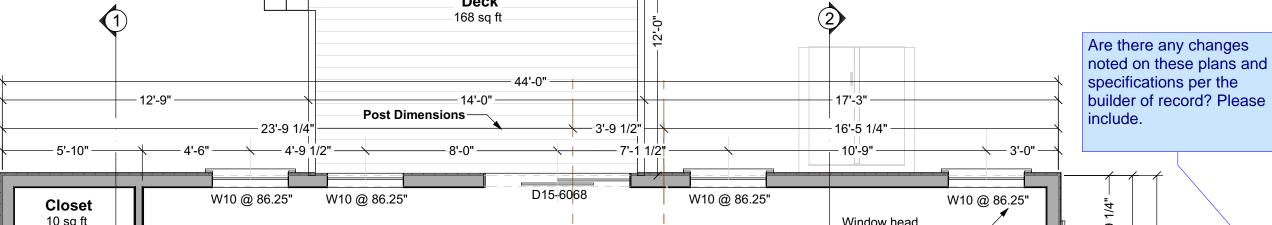
builder in responsible charge of the entire project, including but not limited to mechanical, electrical and sitework. Any additional adaptation for these trades or other trades must be determined prior to start of construction. Contact Artform for any adjustments needed.





8'-0" Finished Ceiling Height





Optional Island At kitchens, always double check

Specific information relevant to

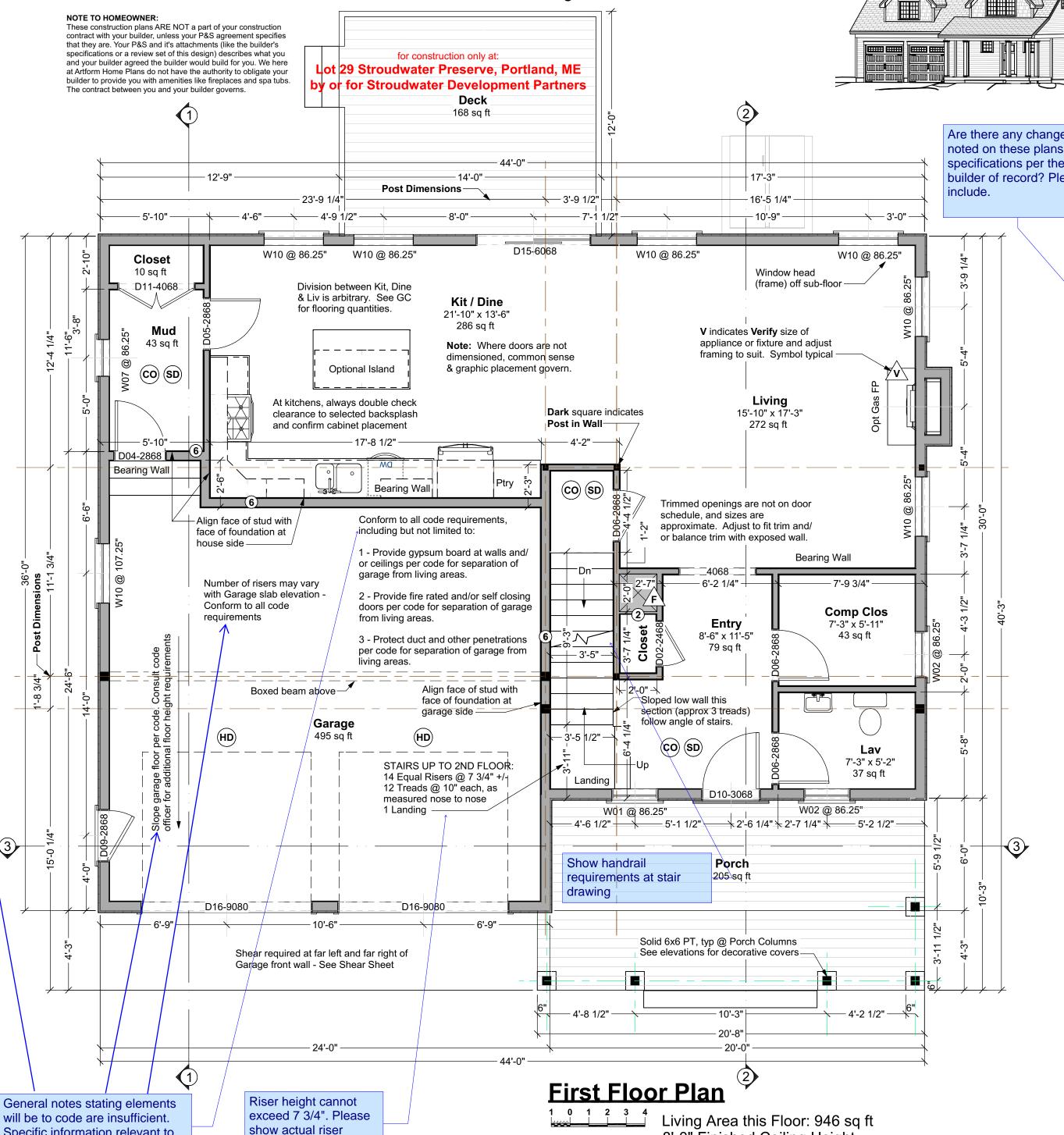
this dwelling unit/site is required.

show actual riser

height for this stair.

1. Sq ft numbers are interior to room for use in calculating finishes.

- 1 Exterior walls 2x6 wood stud @ 16" oc. Provide insulation & vapor barrier conforming to state or local codes. Interior sheathing 1/2" gypsum board. Provide 1/2" exterior rated sheathing, house wrap with drainage plane and siding. Provide step flashing at walls adjacent to roof planes.
- 2 Interior walls 2x4 wood stud @ 16" oc, unless noted
- cricket at any added chimneys.
- 4 Provide roof and/or ceiling insulation per code. Provide soffit and ridge vents where required for insulation strategy. (Verify with code officer - closed cell spray foam or densepack cellulose installed at rafters and filling ridge and eaves generally contra-indicates venting, batt insulation always \(\) requires venting).
- 6 Provide fire resistive materials where required by code, including but not limited to, firestopping at penetrations, 5/8"
- 7 Note not applicable
- 8 Compliance with code requirements for rooms size and clearancess, (hallway widths, room sizes, etc) assume 1/2" ceilings. Adjust as required if materials differ.
- 9 Some windows must be installed with a head height greater or lesser than the standard 80" or 82 1/2" to provide clearance at kitchen counters, to meet code sill height or to install 2x10 header tight to double top plate, frame window
- 10 Shear is only called out where Continuous Portal Frame will not suffice. See Section R602.10.4 (Pages 177 -



### **Dear Code Officer.**

These are predesigned home plans, designed to bring good design and construction drawings to people at more affordable prices and faster time frames than traditional architecture. Where traditional "internet" home plans disclaim all responsibility, we split responsibility between us (Artform) and the owner. We encourage the future homeowners to use a quality builder who can assist them with this. They are responsible for thermal and moisture decisions and for meeting code in ways that a quality builder should know without an explicit detail. We are responsible for things that are directly related to the design and/or that a quality builder couldn't reasonably figure out on their own specifically the following IRC 2015 code sections:

- 1 Room sizes (Section R304)
- 2 Ceiling Height (Section R305)
- 3 Floor space & ceiling height at Toilet, Bath and Shower Spaces (Section R307)
- 4 Hallway widths (Section R311.6)
- 5 Door types & sizes (Section R311.2)
- 6 Floor space in front of doors (Section R311.3)
- 7 Stair width The stairs in our designs will be a minimum of 36" wide measured wall surface to wall surface, allowing compliance with R311.7.1 with installation of correct handrail.
- 8 Stairway headroom (Section R311.7.2) 9 - Stair treads and risers (Section R311.7.5)

13 - See structural sheets for additional notes.

- 10 Landings for stairways (Section R311.7.6)
- 11 Emergency Escape Window Sizes (Section R310.2.1,
- R310.2.2, R310.2.3 and R310.2.4). Casement windows may require manufacturer's emergency escape window hardware. Will also comply with NFPA 101.
- 12 Structural Floor Framing (Section R502.3) Where dimensional lumber is shown, framing members will be sized according to this section of the code. Where engineered wood products are shown, those framing members will be size according to the manufacturer's tables for loads and spans, or sizes will have been calculating using manufacturer's published materials properties.

The builder can and should add information to this set, such as Rescheck, a hand markup of our generic thermal and moisture section, additional information about doors and windows (such as fire rating, tempering, etc), foundation drops relative to site grading, and sometimes their chosen method of basement egress. These drawings are not intended to be used without that additional

Where a construction address is shown on the drawings, it is for copyright control only. We have not inspected the site, adapted the design to state specific laws (except where it says so in the drawings) or site or region specific climate conditions. Homeowner and/or Builder shall be responsible for thermal and moisture control strategies, materials choices and compliance with applicable laws and ordinances.

Please do feel free to call us with any questions. We can and do update our drawings and standard notes to address specific concerns, especially in jurisdictions where our clients will be building again.

### Dear Everybody.

These drawings, and the design they describe, are copyright protected materials. Artform Home Plans and the designer reserve all rights. With these signed drawings a copyright license is granted for a single construction only at Lot 29 Stroudwater Preserve, Portland, ME by or for Stroudwater Development Partners. This is a License to Build, and does not include a License to Modify, except as noted below.

### Permissable uses of these drawings:

- All activities associated with construction at the listed address. - Pricing or preliminary discussions with zoning or code officials for construction at other addresses, with prior notification to Artform Home Plans - just use the Contact form on the web site - http:// www.artformhomeplans.com/contact.a5w

### **Not Permitted:**

- Application for any permits or other approvals for construction at properties other than the listed address, including but not limited to construction, zoning, conservation, or design review. - Modification of the basic design.

Use of these drawings outside these parameters is a violation of federal copyright law, punishable by both civil action and criminal prosecution. It's also stealing or enabling theft, which doesn't suddenly become less bad just because it's "intellectual property". Making changes, even significant changes, does not char Under copyright law, that's "derivative works". You still used our work, and we still spent significant time preparing it, quite possibly in the wee hours when everybody else was sleeping!

We can provide drawings suitable for use in obtaining design or zoning approvals without incurring the expense of a full set of construction drawings. Contact us for more information. We want to allow reasonable use at reasonable costs, just not have

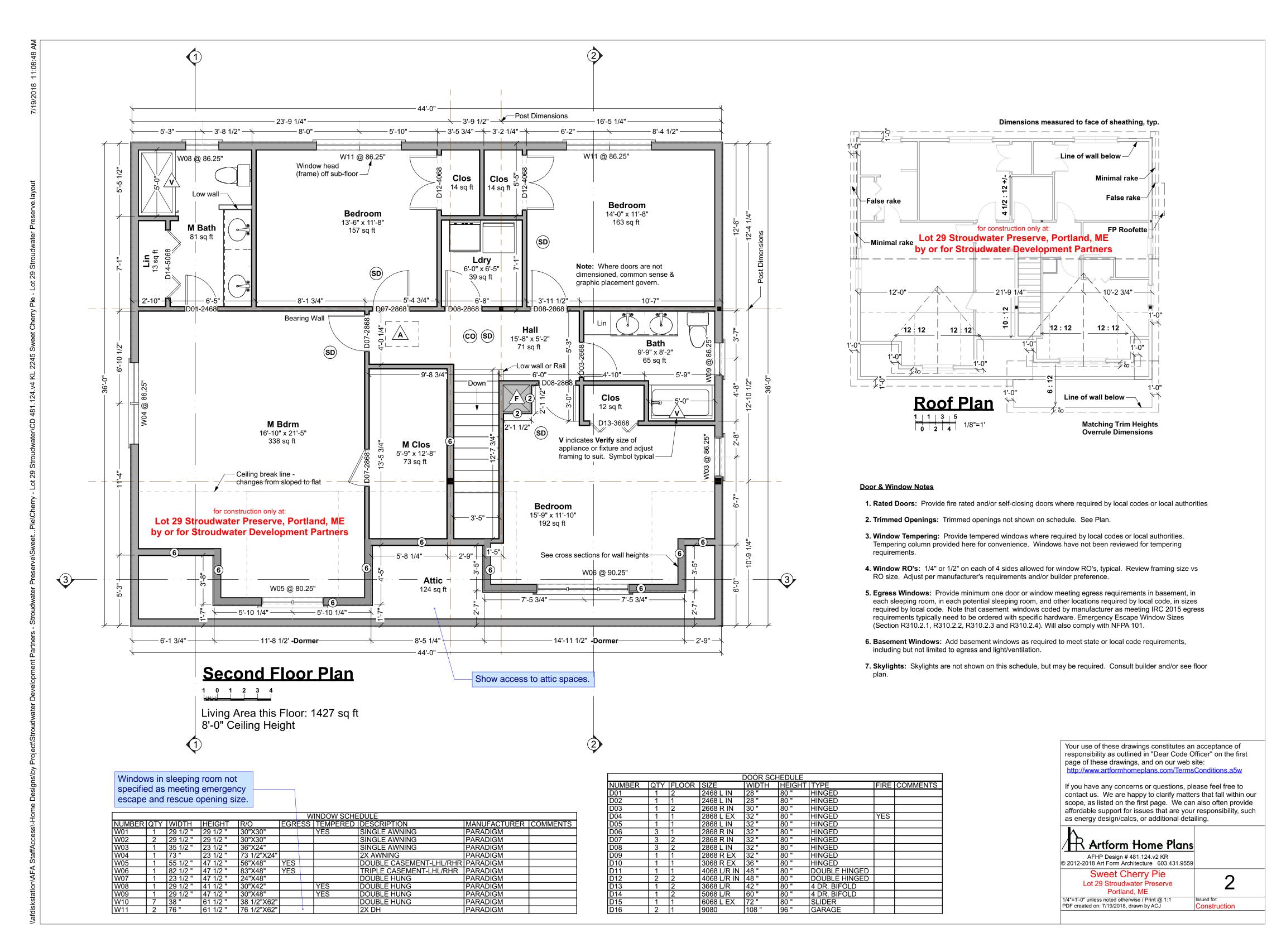
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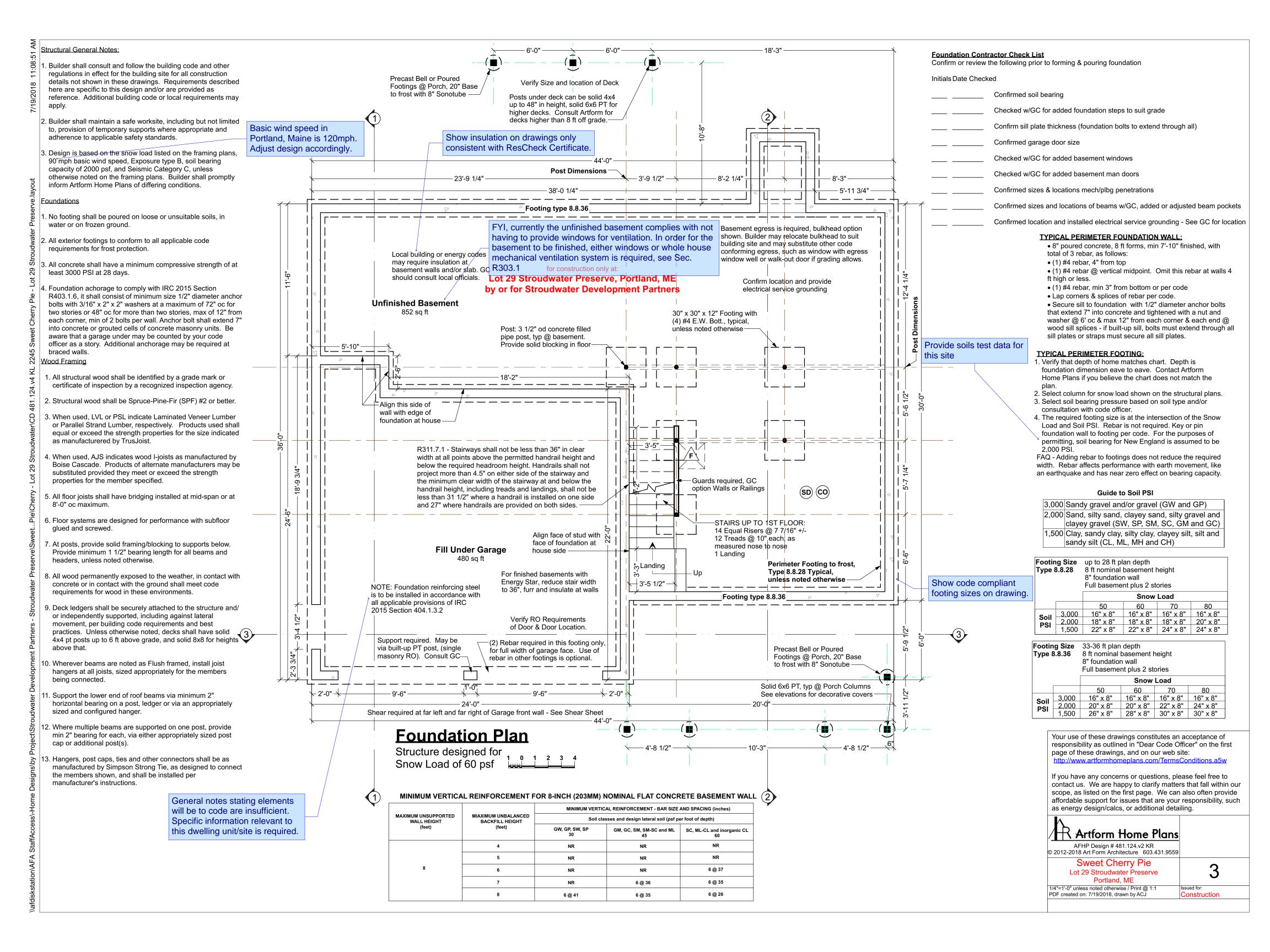
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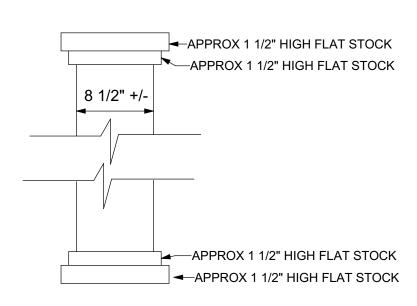


Portland, ME 1/4"=1'-0" unless noted otherwise / Print @ 1:

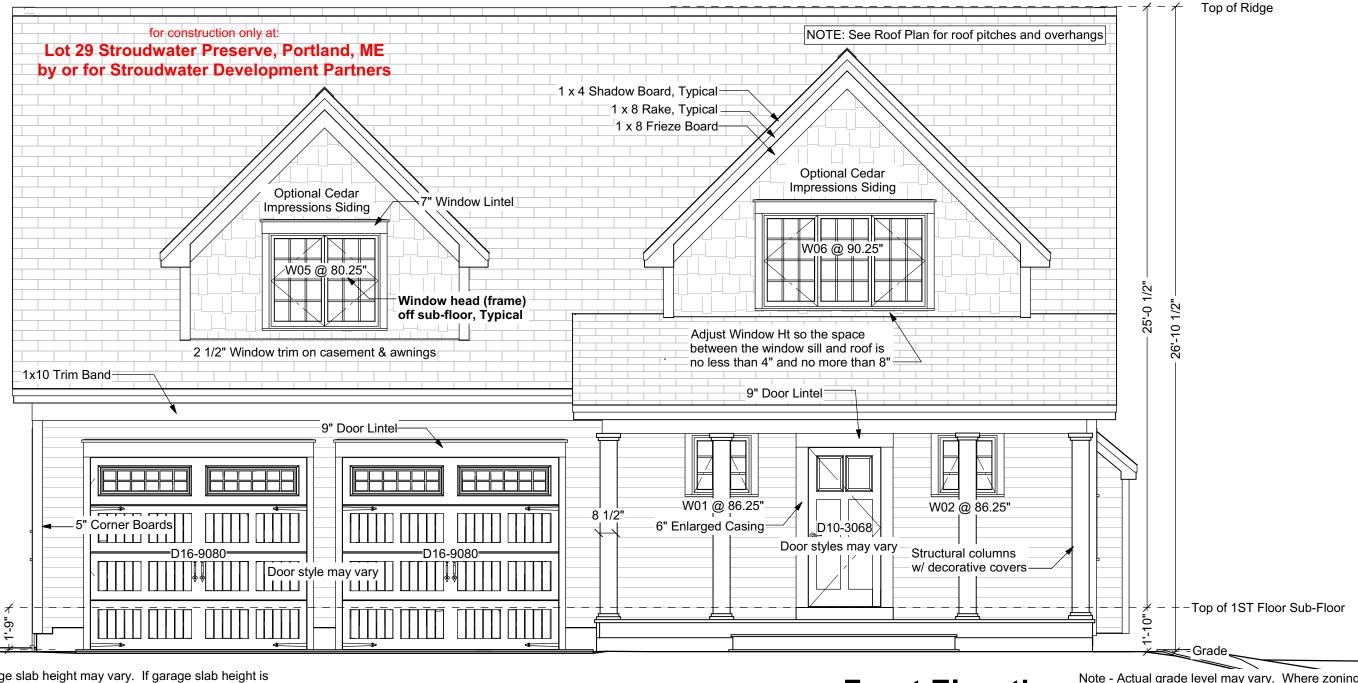
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### **Column Detail**

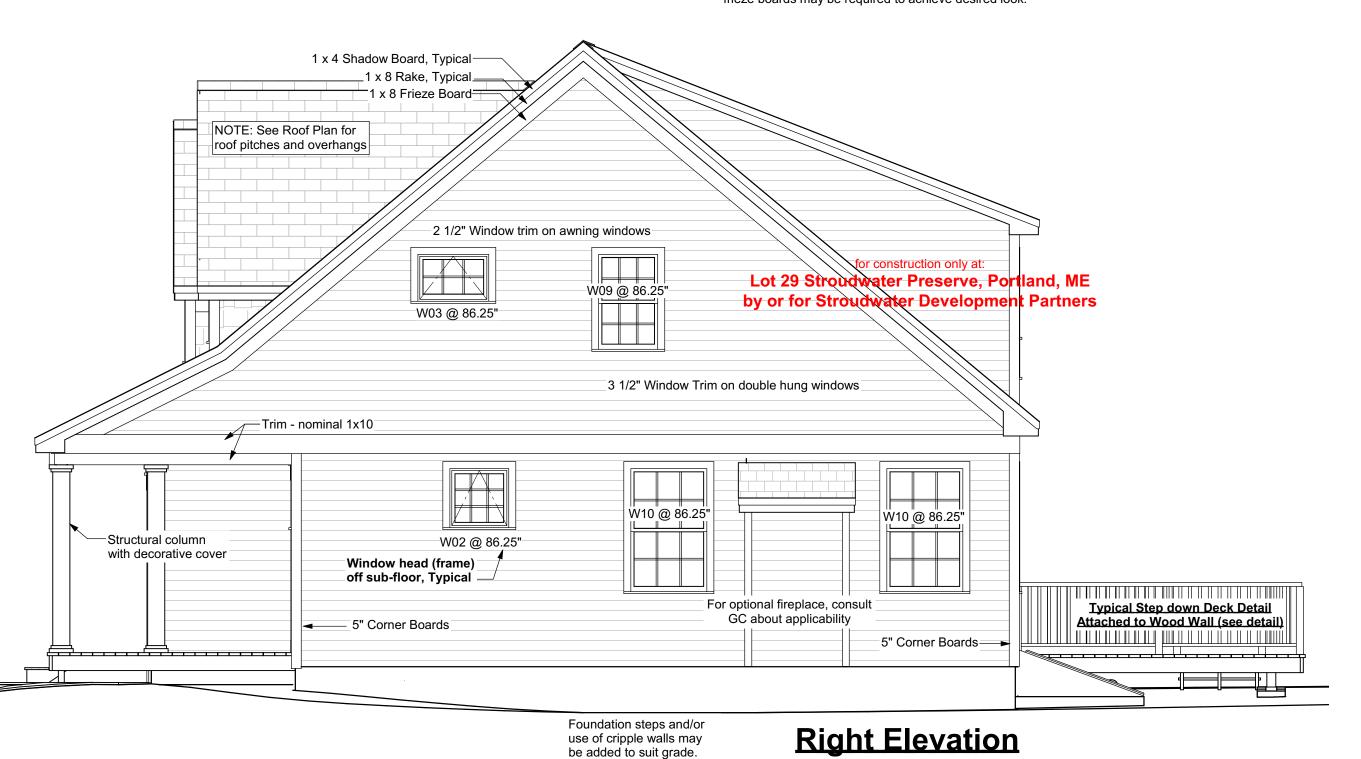


Garage slab height may vary. If garage slab height is lower than shown, consult Artform for aesthetic direction. Taller garage doors, transoms, lintels and/or additional frieze boards may be required to achieve desired look.

Not shown - number of steps may vary - handrail may be required per code.

Front Elevation

Note - Actual grade level may vary. Where zoning height restrictions apply, builder shall verify conformance. Manual markup of drawings to demonstrate compliance is recommended.



Top of 1ST Floor Sub-Floor -

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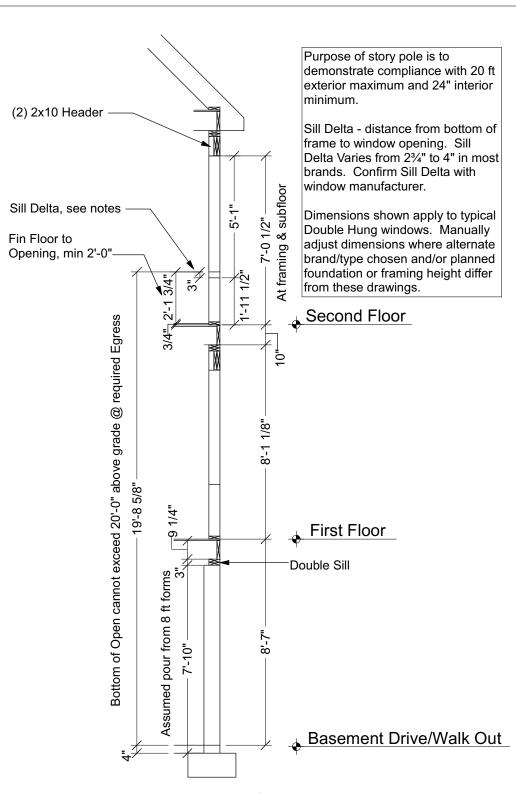
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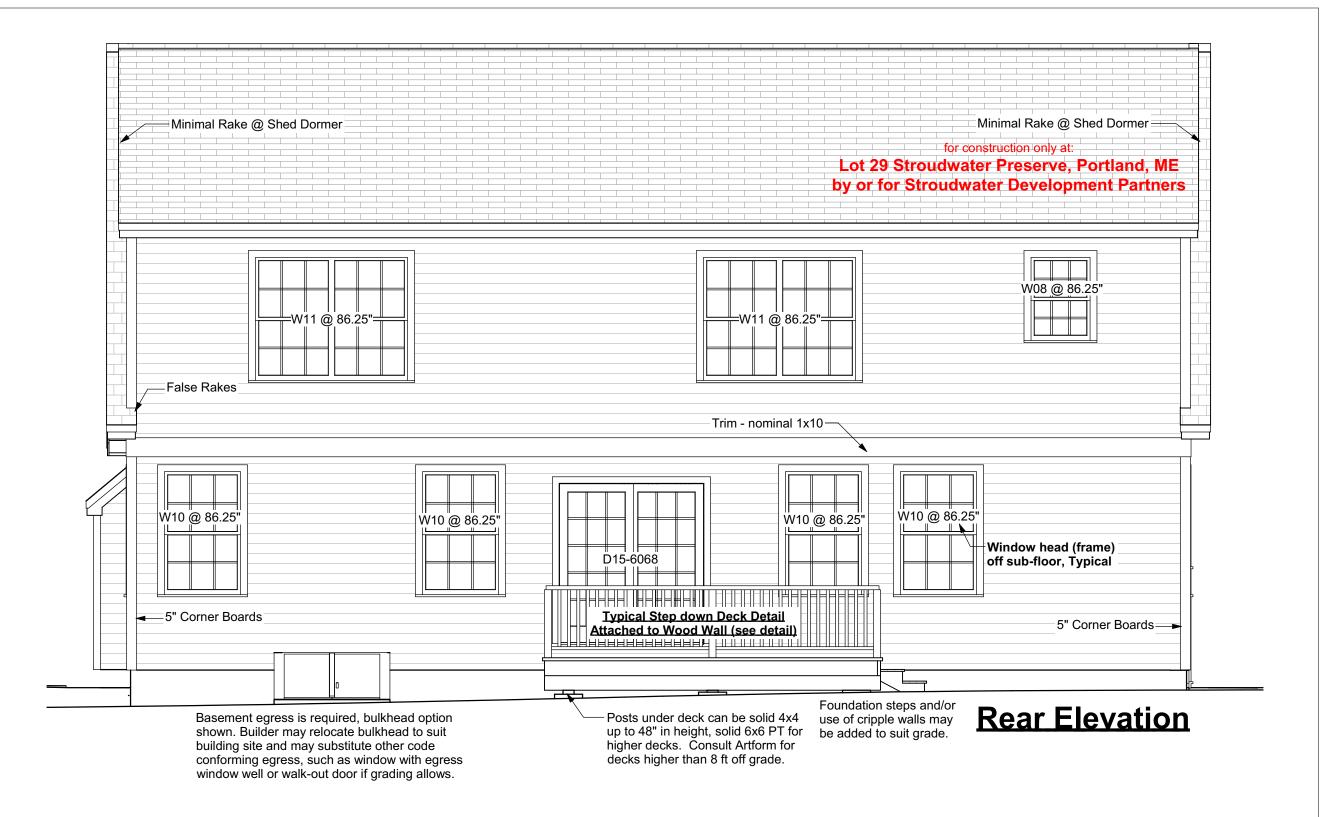
Construction



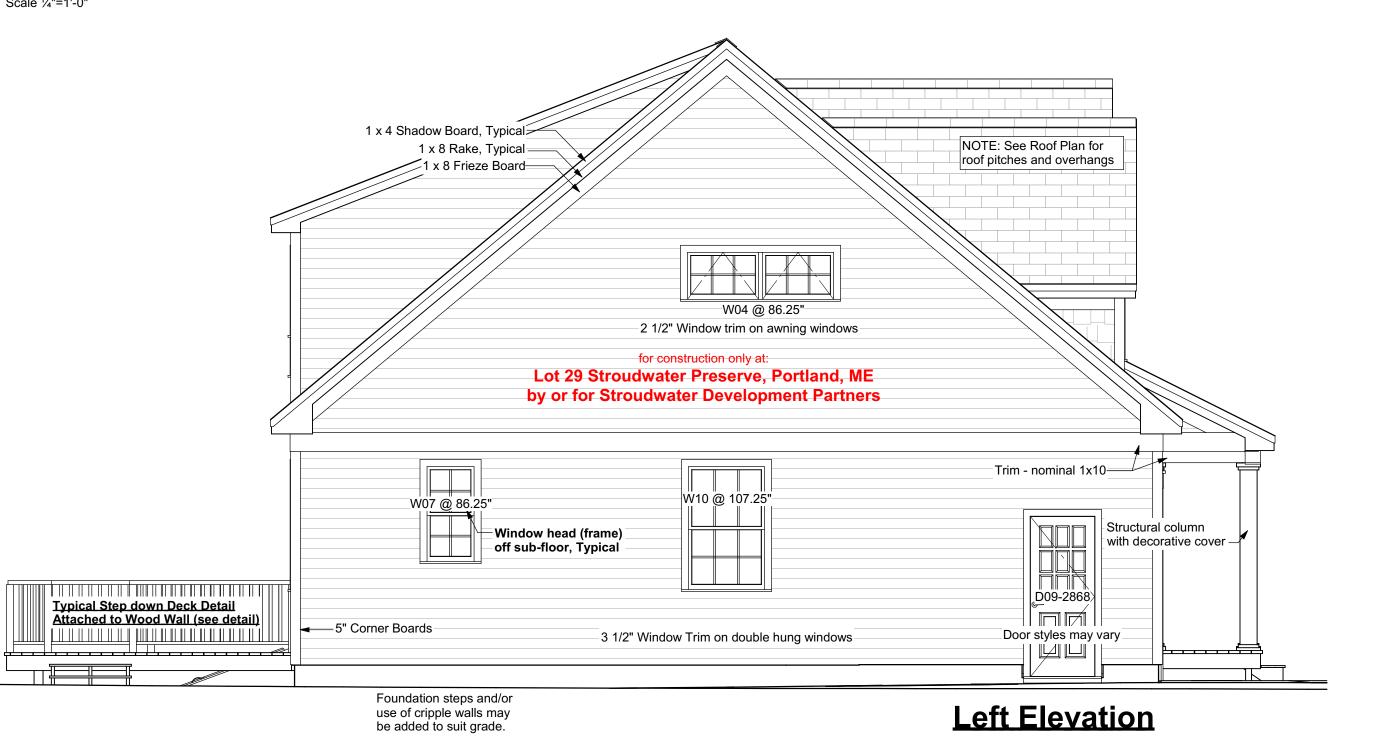
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# Window Story Pole Scale 1/4"=1'-0"



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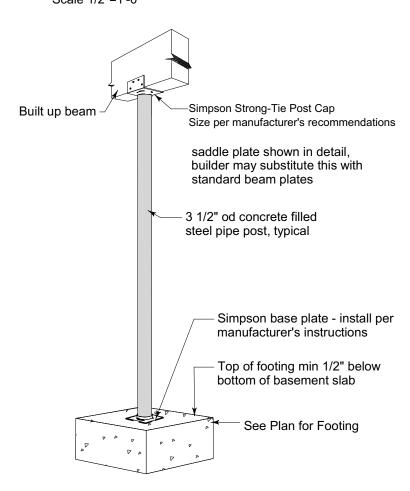
1 Cross Section @ Garage Gable End

NOTCH BEAM FOR MUDSILL IF REQUIRED. (max. notch equals 1/4 depth of beam)

— 1/2" AIR SPACE BEAM — VAPOR BARRIER — SHIMS TO LEVEL BEAM **BEARING** SURFACE FOR WOOD BEAM - FOUNDATION WALL

### **Beam Pocket**

Perimeter Footing



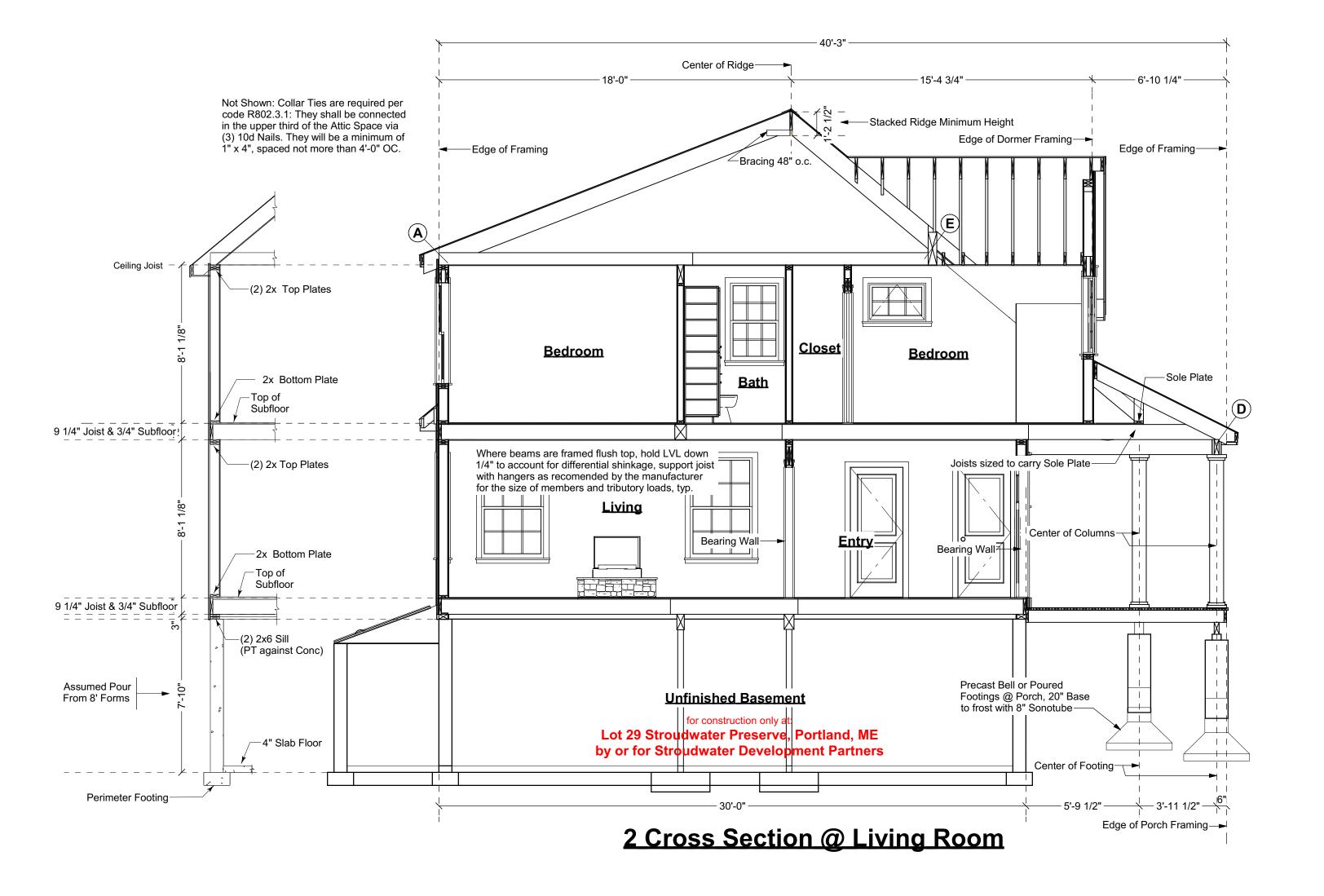
## **Typical Basement Post**

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6 1/4"=1'-0" unless noted otherwise / Print @ 1:1 PDF created on: 7/19/2018, drawn by ACJ Construction



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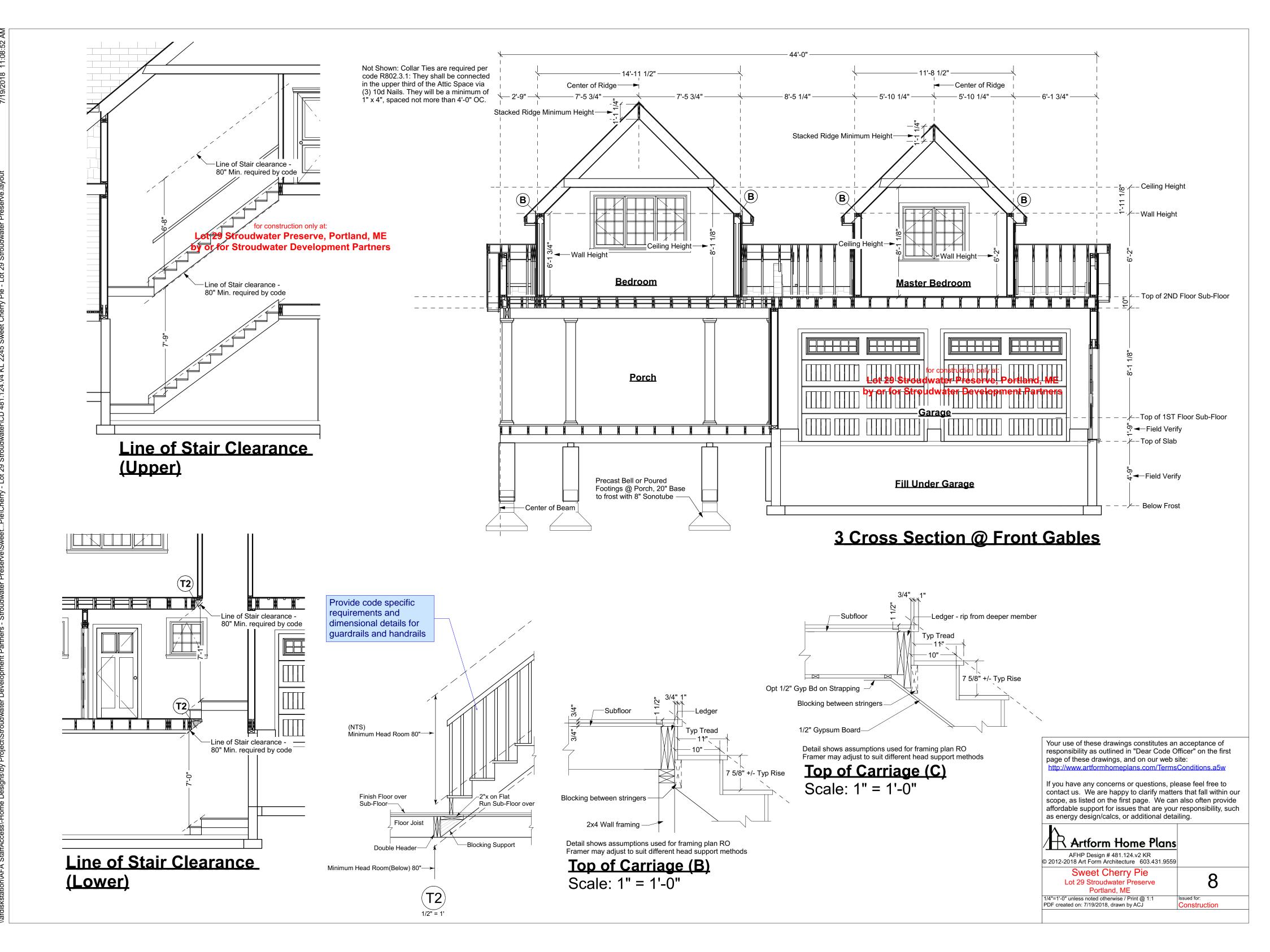


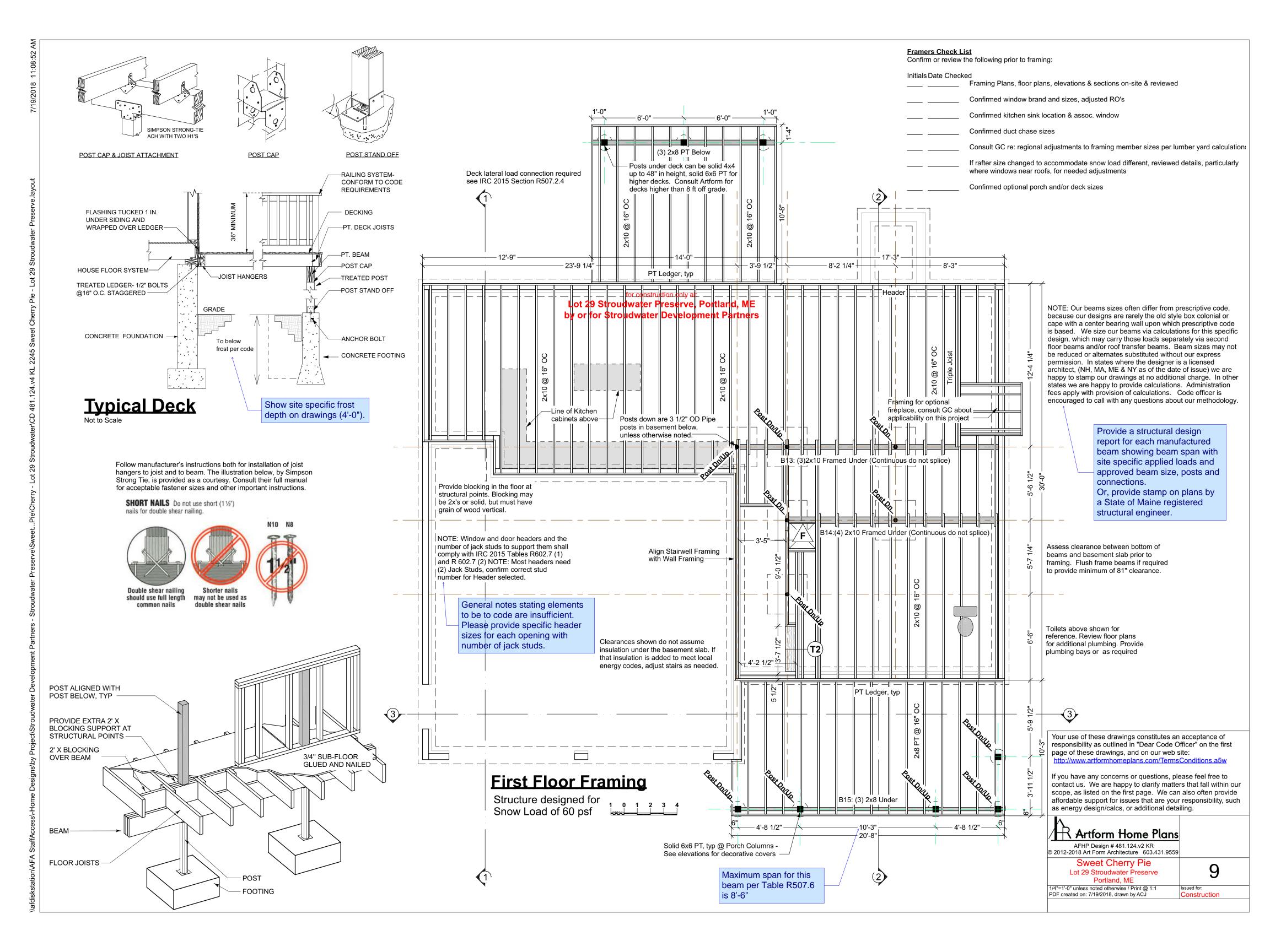
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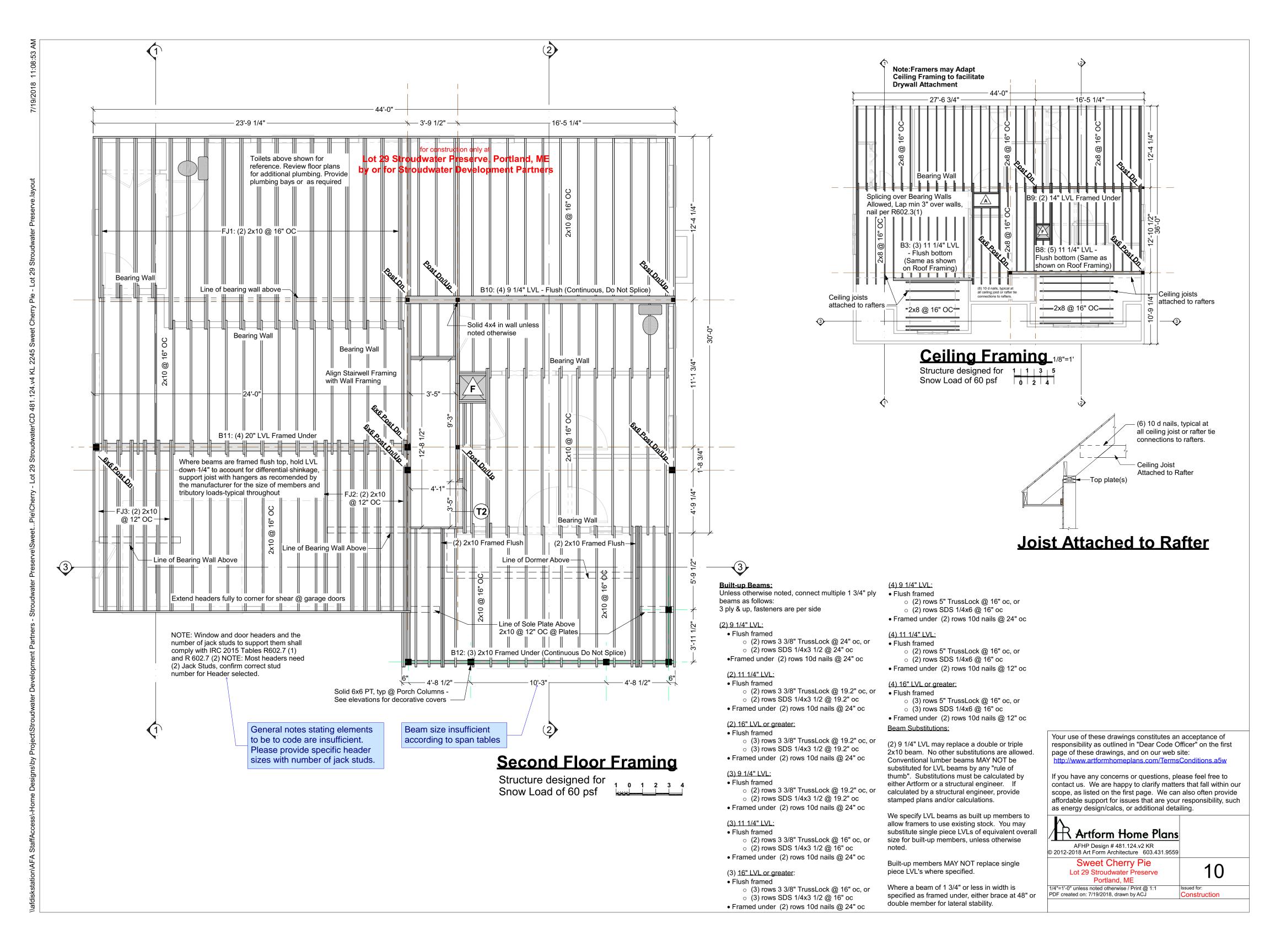
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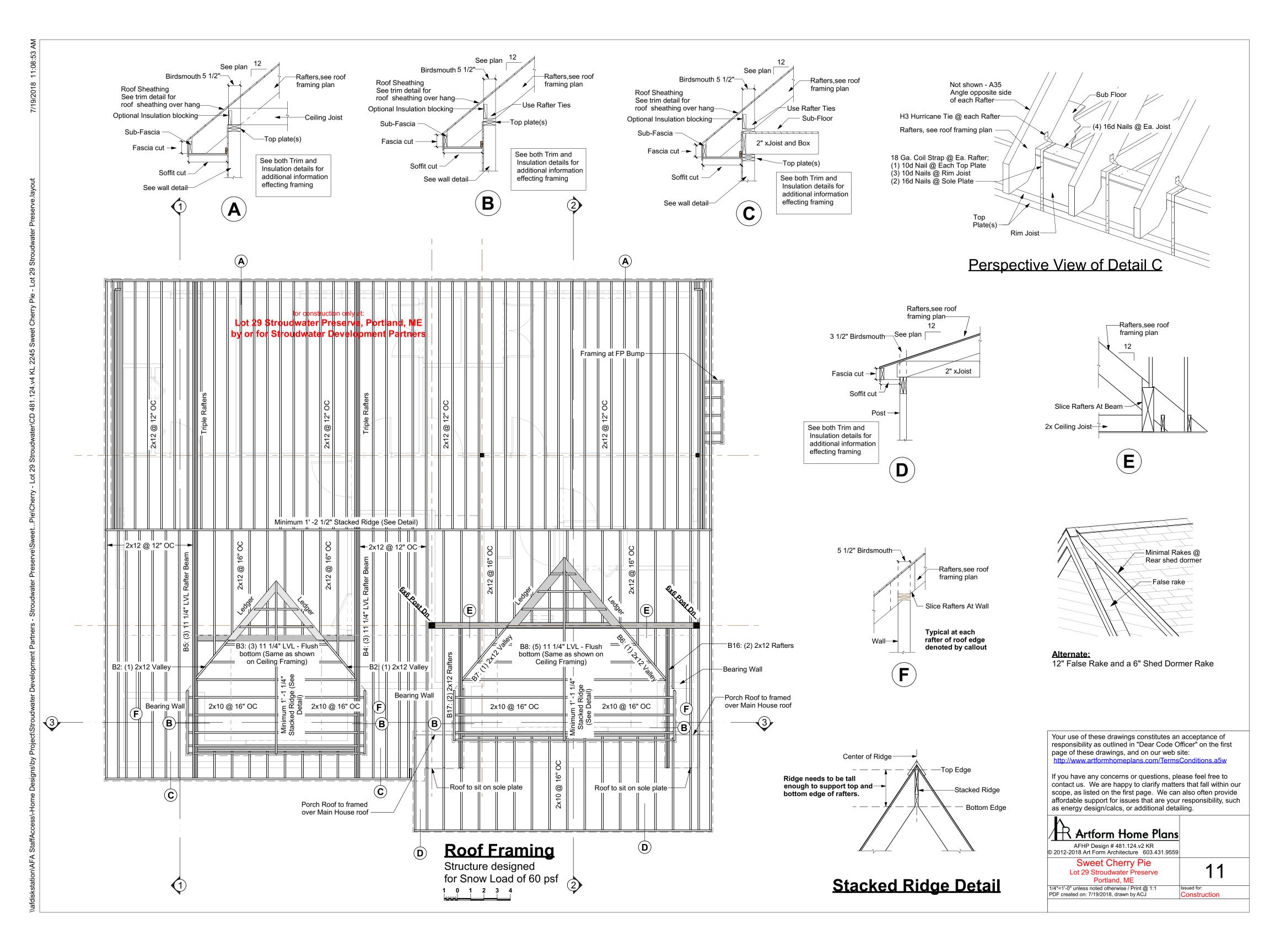
ACJ Construction



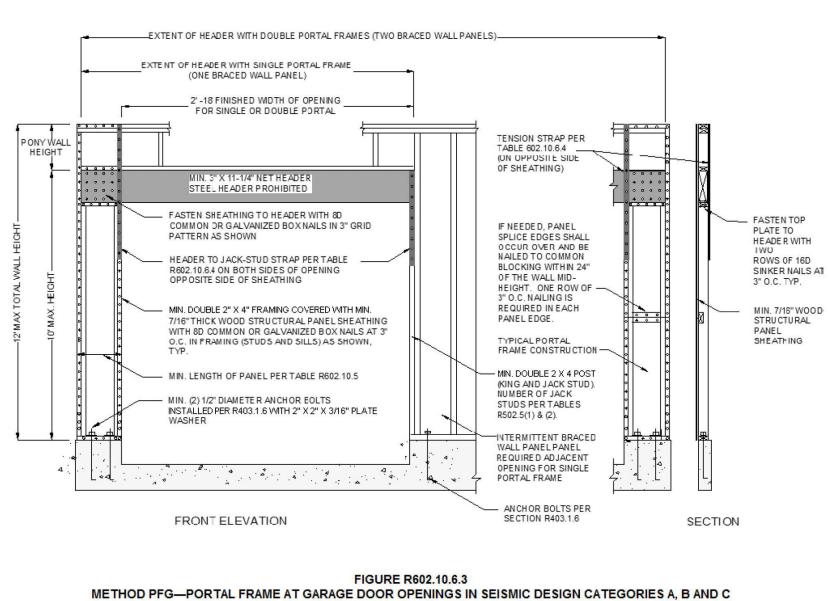




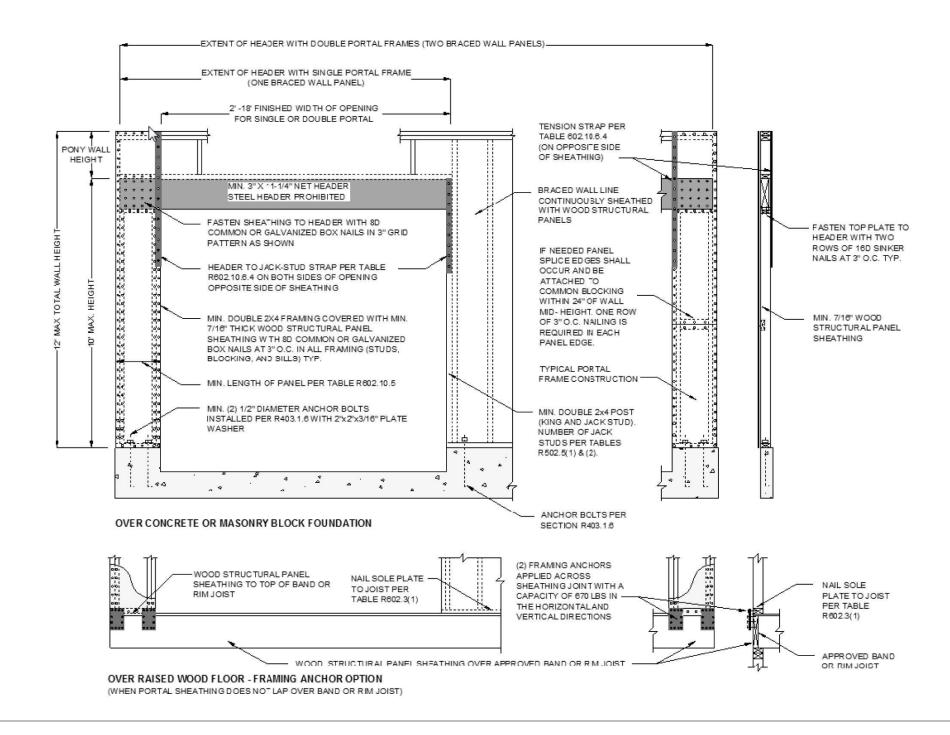




Method PFG: Portal frame at garage door openings shall be constructed in accordance with Figure R602.10.6.3. Note this method is allowed on either side of garage door openings.



Method CS-PF: Continuously sheathe portal frame shall be constructed in accordance with Figure 602.10.6.4. The number of continuously sheathed portal frame panels in a single braced wall line shall not exceed four.



### **Shear Wall Details**

Not to Scale

### Notes:

- See plans for locations where shear panels are required.
- Details shown here are for one method and for typical conditions. An alternate shear method allowed per code or approved by the code officer may be substituted.
- If the method at left is used at Garages where width of panel is 20" or more, wall height may be 10 ft as shown in detail at left. Where panel width is 18"-20", wall height may be 9 ft. Where panel is 16"-18", wall height may be 8 ft. Where panel is less, consult architect for additional design.
- If the method at left is used, increase foundation wall height at front and for 2 ft along wall returns as required to meet maximum wood stud wall heights, and extend sheathing and siding in front of wall to achieve desired aesthetics. Untreaded wood may not be in direct contact with concrete - use treated wood or provide a barrier, such as a rubber membrane or felt paper.
- Note that if sheathing is to be used as wall bracing all vertical joints in required braced wall panels must be blocked. [2015 IRC with MA amendments section R602.10.10]

for construction only at:

Lot 29 Stroudwater Preserve, Portland, ME by or for Stroudwater Development Partners

### TABLE R602.10.4 BRACING METHODS

METHODS, MATERIAL		MINIMUM THICKNESS	FIGURE	CONNECTION CRITERIA <sup>3</sup>		
	1003, MATERIAL	MINIMOM THICKNESS	TIGORE	Fasteners	Spacing	
Continuous	CS-WSP	3, "		Exterior sheathing per Table <u>R602.3(3)</u>	6″ edges 12″ field	
Sheathing Methods	Continuously sheathed wood structural panel	's		Interior sheathing per Table <u>R602.3(1)</u> or <u>R602.3(2)</u>	Varies by fastener	

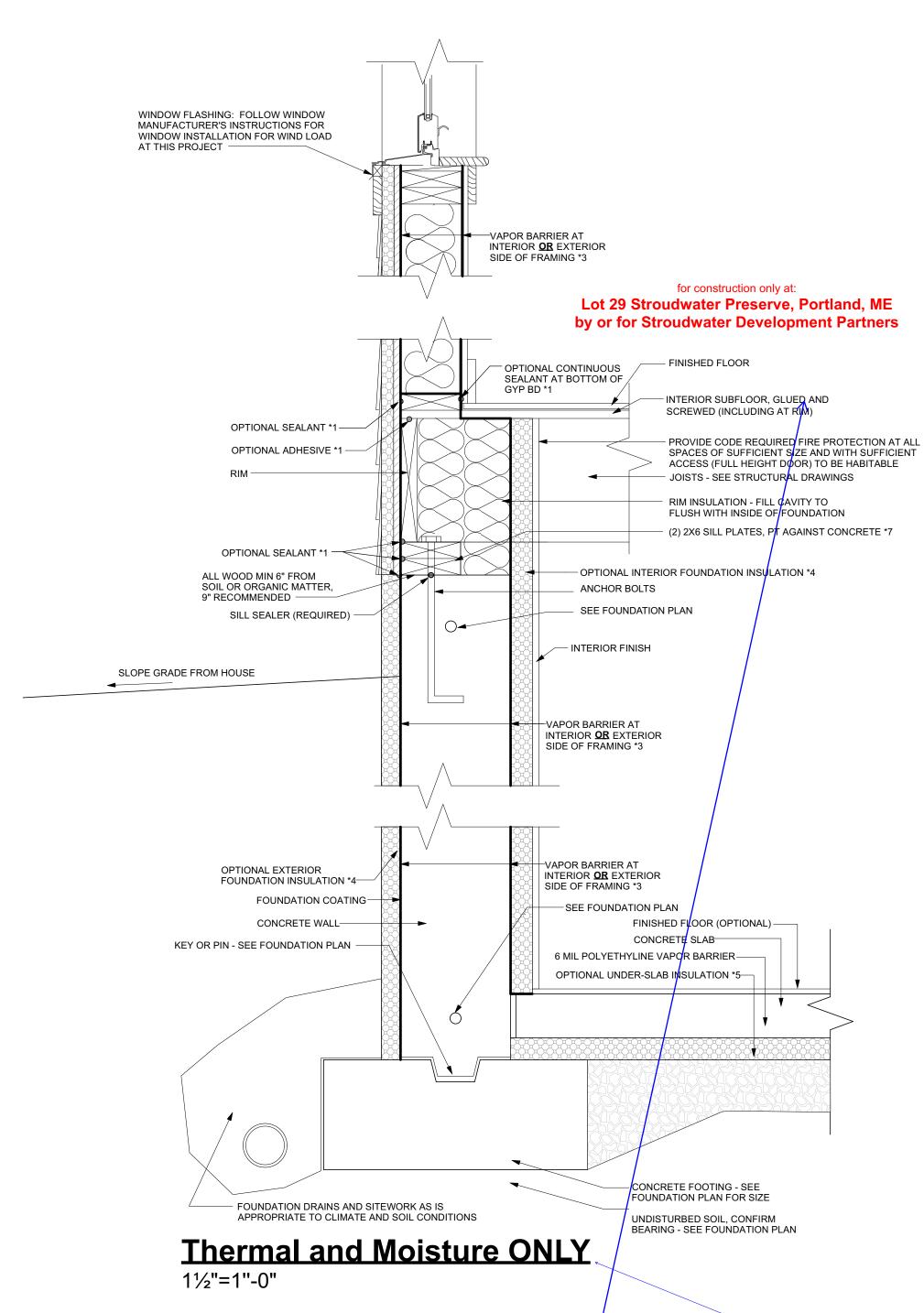
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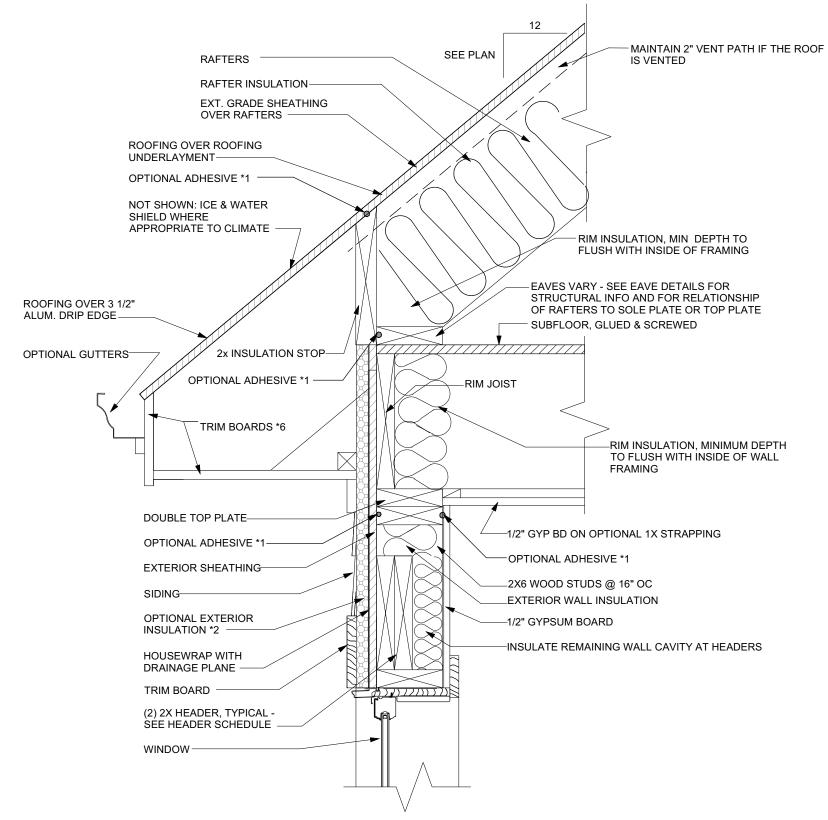
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### **NOTES:**

RESPONSIBILITY FOR THERMAL AND MOISTURE DESIGN LIES WITH THE BUILDER AND/OR HOMEOWNER. IF THESE DETAILS, IN COMBINATION WITH BUILDER-PROVIDED SPECIFICATIONS AND MANUFACTURER'S CUT SHEETS ARE INSUFFICIENT FOR PERMITTING, CONTACT ARTFORM HOME PLANS @ 603-431-9559 TO HAVE DETAILS ADJUSTED PER YOUR MARK-UP.

NOTE THAT SPRAY FOAM INSULATION PERFORMS THE SAME FUNCTION AS THE OPTIONAL SEALANTS SHOWN HERE.

- \*1 OPTIONAL SEALANTS AND ADHESIVES ARE RECOMMENDED FOR ADVANCED
- $^{\star}2$   $\,$  OPTIONAL EXTERIOR INSULATION IS RECOMMENDED FOR ADVANCED ENERGY PERFORMANCE.
- \*3 PROVIDE VAPOR BARRIER APPROPRIATE TO CLIMATE AND TO SELECTED INSULATION. LOCATE VAPOR BARRIER WITHIN WALL ASSEMBLY AS IS APPROPRIATE TO CLIMATE. BUILDER TO PROVIDE SPECIFIC MATERIAL CHOICES ON SEPARATE SPECIFICATIONS SHEET.
- \*4 OPTIONAL FOUNDATION INSULATION IS RECOMMENDED FOR ADVANCED ENERGY PERFORMANCE. IF EXTERIOR INSULATION IS SELECTED PROVIDE PROTECTION FROM WEATHER DAMAGE, INSECTS, ETC AS IS APPROPRIATE TO CLIMATE AND BUILDING SITE. IF INTERIOR FOUNDATION INSULATION IS CHOSEN, PROVIDE FIRE PROTECTION WHERE APPROPRIATE.
- \*5 OPTIONAL UNDERSLAB INSULATION IS RECOMMENDED FOR ADVANCED ENERGY PERFORMANCE. COORDINATE HEIGHTS WITH MECHANICAL, FOUNDATION AND FRAMING TO ENSURE CODE CLEARANCE WHERE BASEMENT SPACE IS HABITABLE.
- \*6 FINISHING OF EAVES MAY VARY SEE PROJECT DETAILS.
- \*7 DOUBLE SILL PLATE IS OPTIONAL IF BASMENT IS NOT HABITABLE. DOUBLE SILL IS INTEGRAL PART OF DESIGN WHERE BASEMENT IS HABITABLE, PARTICULARLY IF UNDER SLAB INSULATION IS INSTALLED. DESIGN ASSUMES 8 FOOT FORMS ACHIEVING 7'-10" POUR.

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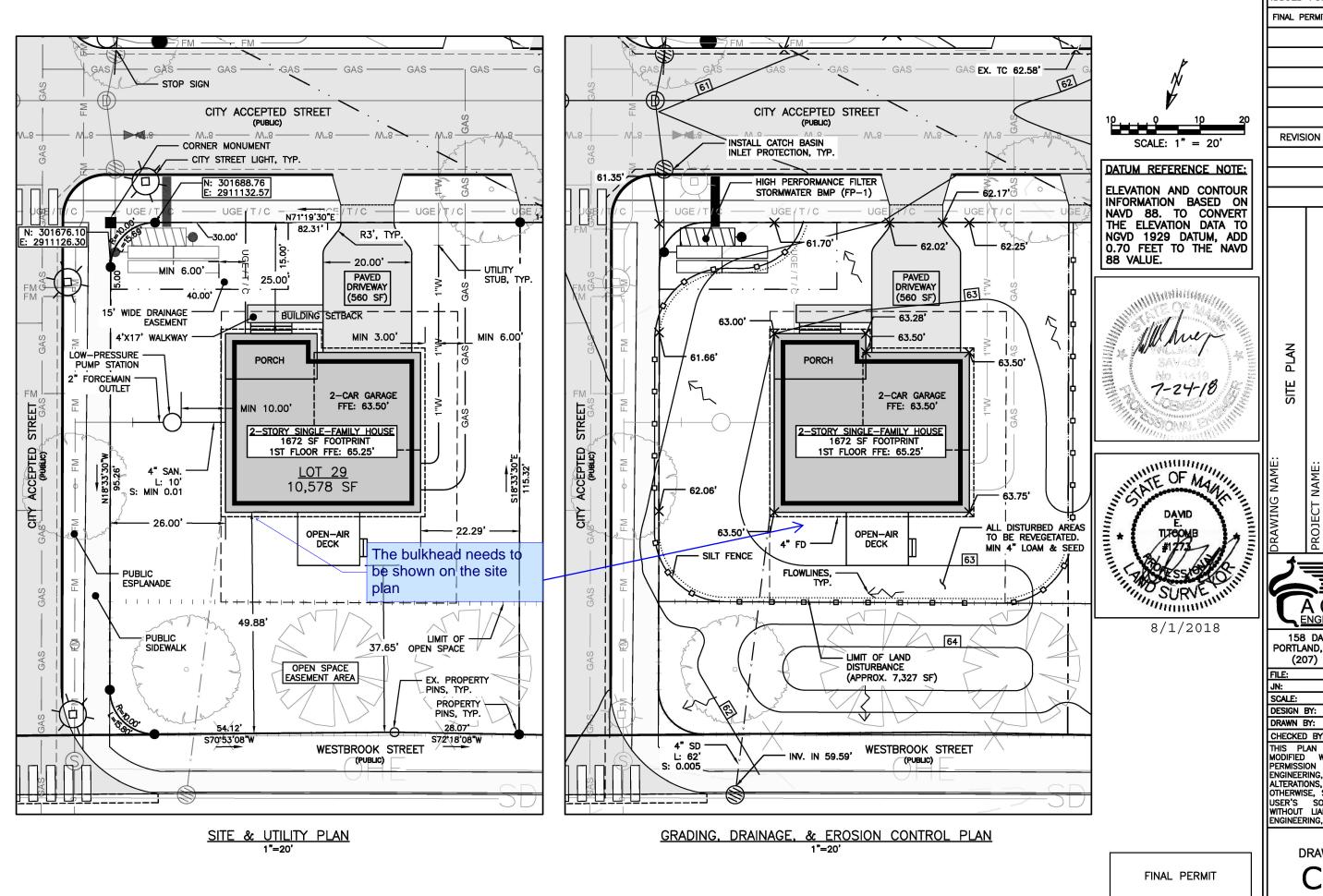
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Construction



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The thermal and moisture details need to be provided per the builder of record and the ResCheck certificate



ISSUED FOR FINAL PERMIT 7/30/18 REV. DATE REVISION LC **APPLICATION** PARTNERS, PROJECT NAME: LOT 29 LEVEL I MINOR RESIDENTIAL STROUDWATER PRESERVE DEVELOPMENT KENNEBUNK, ME IENT: STROUDWATER

ACORN ENGINEERING, INC

158 DANFORTH ST PORTLAND, MAINE 04104 (207) 775-2655

FILE:	CML_107
JN:	107
SCALE:	1"=20
DESIGN BY:	OJI
DRAWN BY:	OJI
CHECKED BY:	WH:
THIS PLAN SHA	LL NOT B

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM ACORN ENGINEERING, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO ACORN ENGINEERING, INC.

DRAWING NO.

C-01

### SITE NOTES:

- 1. LOT 29 IS PART OF THE STROUDWATER PRESERVE SUBDIVISION AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE SUBDIVISION PLAT PHASE I LAST REVISED 6/21/18 AND RECORDED AT CUMBERLAND COUNTY REGISTRY OF DEEDS (CCRD); 218/339.
- OWNERS OF RECORD ARE STROUDWATER DEVELOPMENT PARTNERS, LLC (34733/76). BOOK AND PAGE REFERENCES ARE TO THE CCRD.
- 3. BEARINGS ARE REFERENCED TO GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, NAD83, WEST ZONE.
- 4. ELEVATIONS ARE BASED ON NAVD88 DATUM AS DERIVED FROM GPS OBSERVATIONS. REFER TO THE EXISTING CONDITIONS PLAN BY TITCOMB ASSOCIATES DATED 6/16/17 LAST REVISED 2/21/18 FOR BENCHMARK LOCATIONS.
- LOT BOUNDARIES PER EXISTING CONDITIONS PLAN AND SUBDIVISION PLAN. PROPERTY PINS TO BE SET BY TITCOMB ASSOCIATES. MONUMENTS TO BE LOCATED BY TITCOMB PRIOR TO INSTALLATION BY SITE CONTRACTOR AND ISSUANCE OF THE BUILDING PERMIT.
- 6. THERE ARE NO EXISTING MATURE TREES WITHIN THE PROPERTY AS INFERRED FROM THE EXISTING CONDITIONS PLAN AND AERIAL IMAGERY. REFER TO THE STROUDWATER PRESERVE LANDSCAPE PLAN, L-1 BY SOREN DENOIRD DESIGN STUDIO LAST REVISED 2/22/18 FOR ADDITIONAL INFORMATION ON STREET TREE PLACEMENT AND SPECIES. IF STREET TREES ARE PLANTED PRIOR TO HOME CONSTRUCTION, TREES TO BE PROTECTED AND REPLACED IF DAMAGED.
- ALL BUILDING CORNER OFFSETS TO BOUNDARY LINES ARE FROM CORNERBOARDS AND NOT BUILDING FOUNDATION, UNLESS OTHERWISE NOTED.
- 8. LOT 29 IS NOT WITHIN THE 100-YEAR FEMA FLOODPLAIN PER THE NATIONAL FLOOD INSURANCE PROGRAM, PRELIMINARY FLOOD INSURANCE RATE MAP DATED 4/14/2007.

### **UTILITY NOTES:**

- FOR ALL UTILITIES, ACORN'S DESIGN LIMITS EXTEND TO OUTSIDE WALL OF BUILDING. METERING OF UTILITIES TO BE COMPLETED BY HOUSE GENERAL CONTRACTOR UNLESS SPECIFIED OTHERWISE.
- GAS, SEWER, & WATER SERVICES TO EXTEND FROM THE EXISTING STUB. FINAL CONNECTION LOCATION TO BUILDING TO BE DETERMINED BY HOUSE GENERAL CONTRACTOR.
- 3. SEWER UTILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH CITY OF PORTLAND TECHNICAL STANDARDS. FINAL FORCEMAIN SERVICE AND ASSOCIATED APERTURES LAYOUT ARE TO BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE PRODUCT SUPPLIER. LOW PRESSURE SEWER PUMP STATION TO BE OWNED AND MAINTAINED BY THE HOMEOWNER.
- 4. WATER SERVICE CONSTRUCTION, WATER METERING, PRESSURE REDUCER AND BACKFLOW PREVENTION TO BE IN ACCORDANCE WITH THE PORTLAND WATER DISTRICT STANDARDS. WATER SERVICES TO COMPLY WITH THE FOLLOWING MINIMUM SEPARATION DISTANCES:
- 4.1. 10' FROM PROPERTY LINES
- 4.2. 10' FROM STREET TREES
- 4.3. 10' FROM STREET LIGHTING
- 4.4. 5' FROM EDGE OF DRIVEWAY APRON
- . ALL ELECTRIC SERVICE CONSTRUCTION SHALL CONFORM TO CMP GUIDEBOOK OF STANDARD REQUIREMENTS, MOST RECENT EDITION.
- 6. HOUSE LOT GAS UTILITY DESIGN, AND FINAL GAS SERVICE LOCATION AND METERS TO BE COMPLETED BY HOUSE GENERAL CONTRACTOR.
- 7. CONTRACTOR TO COORDINATE CABLE AND TELECOMMUNICATIONS CONNECTION TO BUILDING.

#### **DRAINAGE NOTES:**

- EXISTING SITE SOILS ARE BUXTON (A) OF THE HYDROLOGIC GROUP C AS DEFINED BY SOIL NARRATIVE REPORT BY MARK HAMPTON ASSOCIATES DATED 5/10/17.
- 2. 50% OF LOT 29 IS TRIBUTARY TO FP-1. FP-1 IS SIZED TO TREAT BOTH THE HOUSE LOT AND PORTION OF THE ROAD RUNOFF. THE PROPOSED DRAINAGE PATTERN CONFORMS TO THE APPROVED STORMWATER MANAGEMENT REPORT BY ACORN ENGINEERING LAST REVISED NOVEMBER 2017. REFER TO THE REPORT FOR SPECIFIC SITE STORMWATER QUALITY AND QUANTITY ANALYSIS.
- 3. FP-1 IS TO BE OWNED AND MAINTAINED BY THE CITY OF PORTLAND. THE FINAL STORMWATER BMP LAYOUT IS SUBJECT TO CHANGE BUT IS TO REMAIN WITHIN THE BOUNDS OF THE DRAINAGE EASEMENT. REFER TO THE STORMWATER DRAINAGE SYSTEM MAINTENANCE AGREEMENT FOR STROUDWATER PRESERVE DATED 5/12/18 FOR ADDITIONAL INFORMATION ON STORMWATER BMP OWNERSHIP AND MAINTENANCE RESPONSIBILITIES.
- 4. CONTRACTOR TO ENSURE THAT UNDERDRAINS ARE CONSTRUCTED WITH A POSITIVE OUTLET.

### **EROSION CONTROL NOTES:**

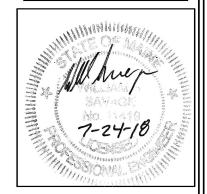
- CONTRACTOR TO REFER TO THE EROSION AND SEDIMENTATION CONTROL REPORT DATED AUGUST 2017 FOR TEMPORARY AND PERMANENT EROSION CONTROL MEASURES AND BEST HOUSEKEEPING PRACTICES. CONTROL MEASURES TO COMPLY WITH SECTION 6 OF THE CITY OF PORTLAND TECHNICAL STANDARDS.
- SEDIMENT BARRIERS (SILT FENCE) TO BE INSTALLED ALONG ALL DOWN-GRADIENT LIMITS OF CONSTRUCTION.
- CONTRACTOR TO BE RESPONSIBLE FOR SWEEPING THE CITY STREETS AS NECESSARY.
- CONTRACTOR TO INSTALL CONSTRUCTION ENTRANCE AT ALL LOCATIONS OF INGRESS AND EGRESS TO THE SITE DURING CONSTRUCTION.

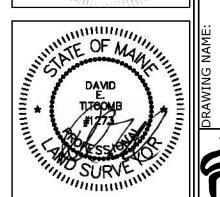
SPACE AND BULK STANDARDS			
ZONE:	R-3	PROPOSED	
MINIMUM LOT SIZE	6,500 SF	10,578 SF	
MINIMUM STREET FRONTAGE	50'	95.26'	
FRONT YARD	25'	26'	
REAR YARD — PRINCIPAL	25'	37.65'	
REAR YARD - ACCESSORY	5'	N/A	
MINIMUM SIDE YARD	14'	22.28'	
MAXIMUM LOT COVERAGE	35%	23.5%	
MINIMUM LOT WIDTH*	65'	92.29'	
MAXIMUM BUILDING HEIGHT	35'	26.75'	
MAXIMUM ACCESSORY HEIGHT	18'	N/A	

\*DISTANCE PARALLEL TO THE FRONT OF THE BUILDING MEASURED BETWEEN SIDE LOT LINES THROUGH THAT PART OF THE PRINCIPAL BUILDING WHERE THE LOT IS NAPPOWEET

### **DATUM REFERENCE NOTE:**

ELEVATION AND CONTOUR INFORMATION BASED ON NAVD 88. TO CONVERT THE ELEVATION DATA TO NGVD 1929 DATUM, ADD 0.70 FEET TO THE NAVD 88 VALUE.





8/1/2018

FINAL PERMIT

PROJECT NAME: LOT 29 LEVEL   STRO CLIENT: STROUDWATER D	EVIS	ION		RE DA	V. IE	
	SIIE NOIES	PROJECT NAME:  LOT 29 LEVEL   MINOR RESIDENTIAL APPLICATION	STROUDWATER PRESERVE	CLIENT:	STROUDWATER DEVELOPMENT PARTNERS, LLC	KENNEBUNK. ME
ACORN ENGINEERING, INC		A C	0	F	=	N

ISSUED FOR

7/30/18

158 DANFORTH ST PORTLAND, MAINE 04104 (207) 775-2655

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