Earl & Marguerite Duncan Jr.

6 Keith David Drive, Millbury MA



TABLE of CONTENTS

13 Pages

Letter to the Planning Board.

Architect Drawing (Six pages);

- a. New Elevation, Page 1.
- b. Foundation & Elevator Plan, Page 2.
- c. New Floor Plans, Page 3.
- d. Building Section & Details, Page 4.
- e. Framing Plans, Page 5.
- f. Bracing Methods, Page S1.

J01 (Joist, Beam).

Survey, with PROPOSED ADDITION 1=20.

House Pictures, two pages.

National Flood Hazard Layer FIRMette (FEMA).

FEMA National Flood Ins. Program Map 25027C0809E.

Application for Special Permit

Application Review

Form E, Certified List of Abutters

Checklist, Submission of Special Permit

To the Millbury Planning Board,

We are requesting approval for an Accessory Dwelling Unit / In-Law Apartment to accommodate my wife's father William Caffone. He is a disabled veteran, and had a long career working for Worcester County.

We believe this to be the best move especially do to the current COVID-19 situation.

The following will be run from inside the existing home to the Accessory Dwelling Unit:

- 1. Sewer pipe, the current main pipe entering the existing home is 4" in diameter that can be stepped down to 3.5" pipe which will accommodate the bathroom and small kitchen drain needs.
- 2. Sub-Panel, a 100-amp sub-panel will run from the existing panel and be placed into the accessory dwelling unit.
- 3. Water, Aquarion Water Supply said that a ³/₄" supply line can be tapped off of the existing incoming pipe and will provide more than enough water and pressure for the new addition.
- 4. Gas line; will be provided from existing house to fuel a gas dryer and tankless hot water/furnace (all in one) unit.
- 5. Cable & Wi-Fi will also come from the existing home.

United Elevator Co Inc will be installing a Hoyt home elevator. They will provide the required state elevator permit, final acceptance test, state elevator permit and turnover to the customer.

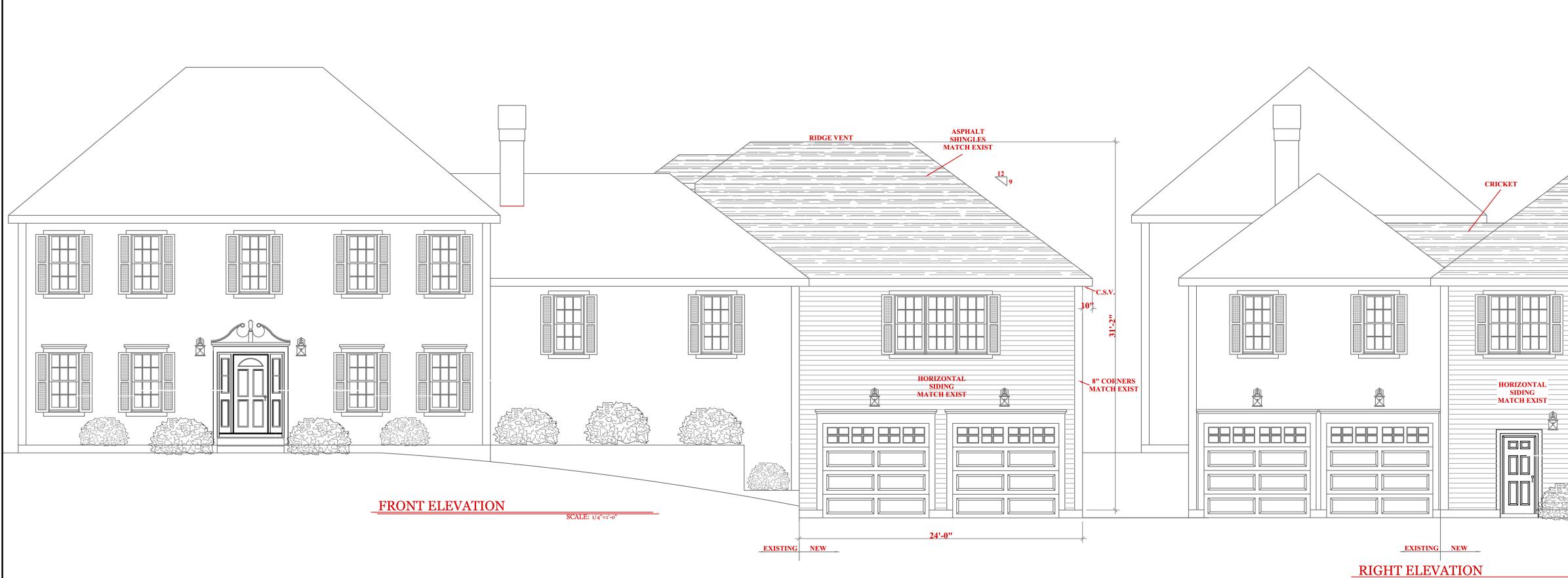
The new addition will have an Air Conditioner / Heat Pump Mini Split system.

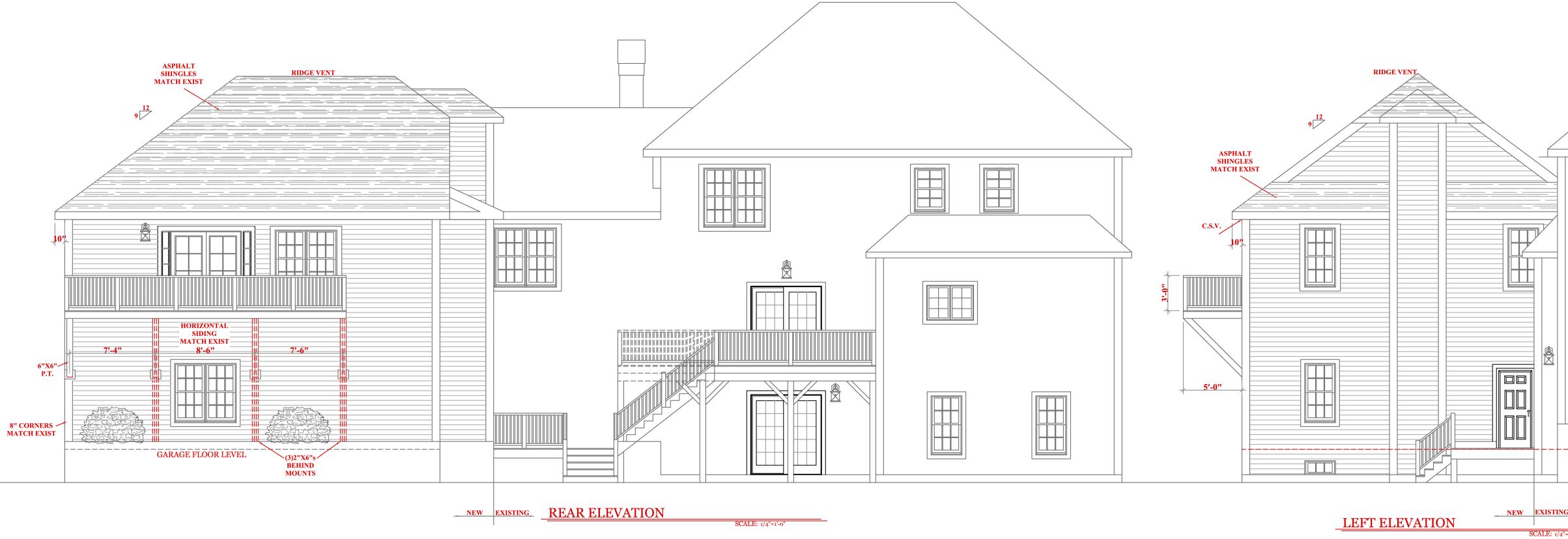
There will be landscaping (i.e. Shrubs, mulch etc. of the right side of the new addition. See first page of plans.

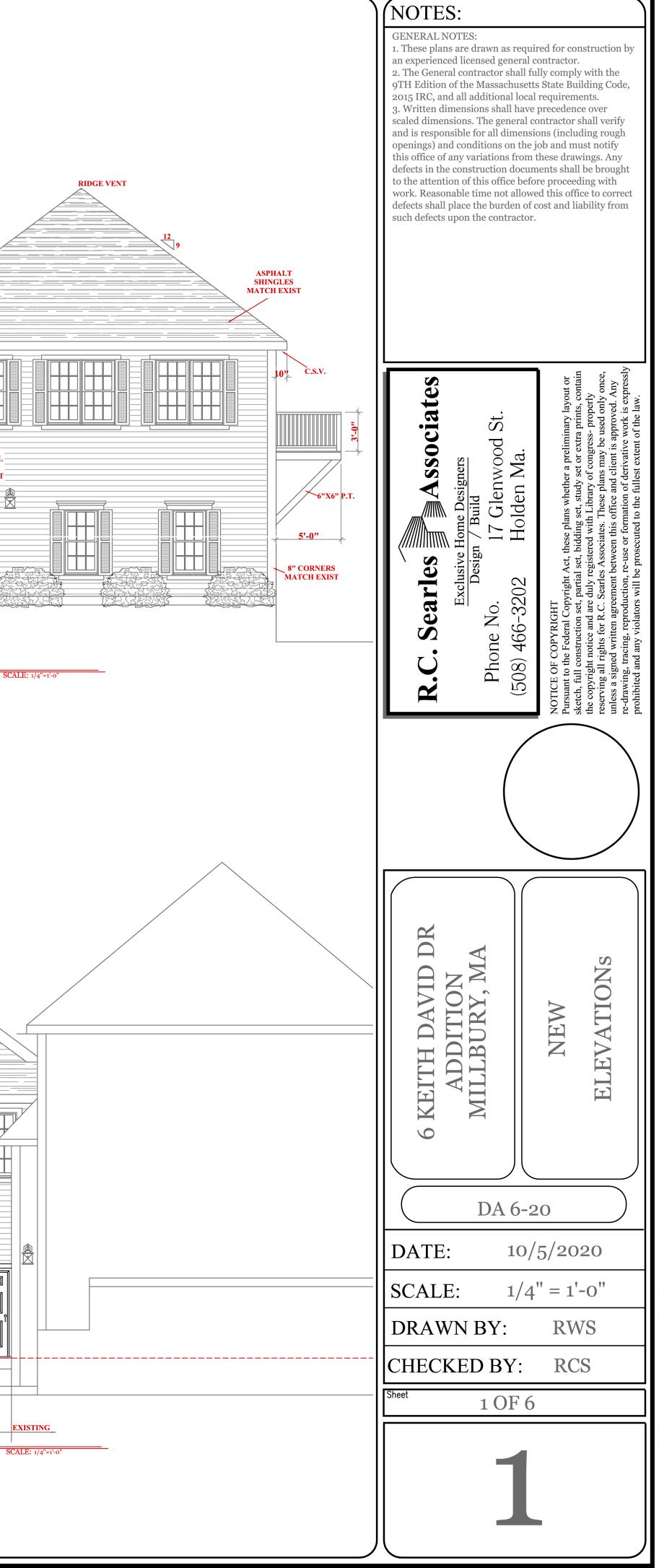
With the guidance from our surveyor, architect, plumber, electrician, contractor and the town of Millbury planning board I know we will create a beautiful addition that will not only look great but will appear as it was always there.

Thank you for your consideration.

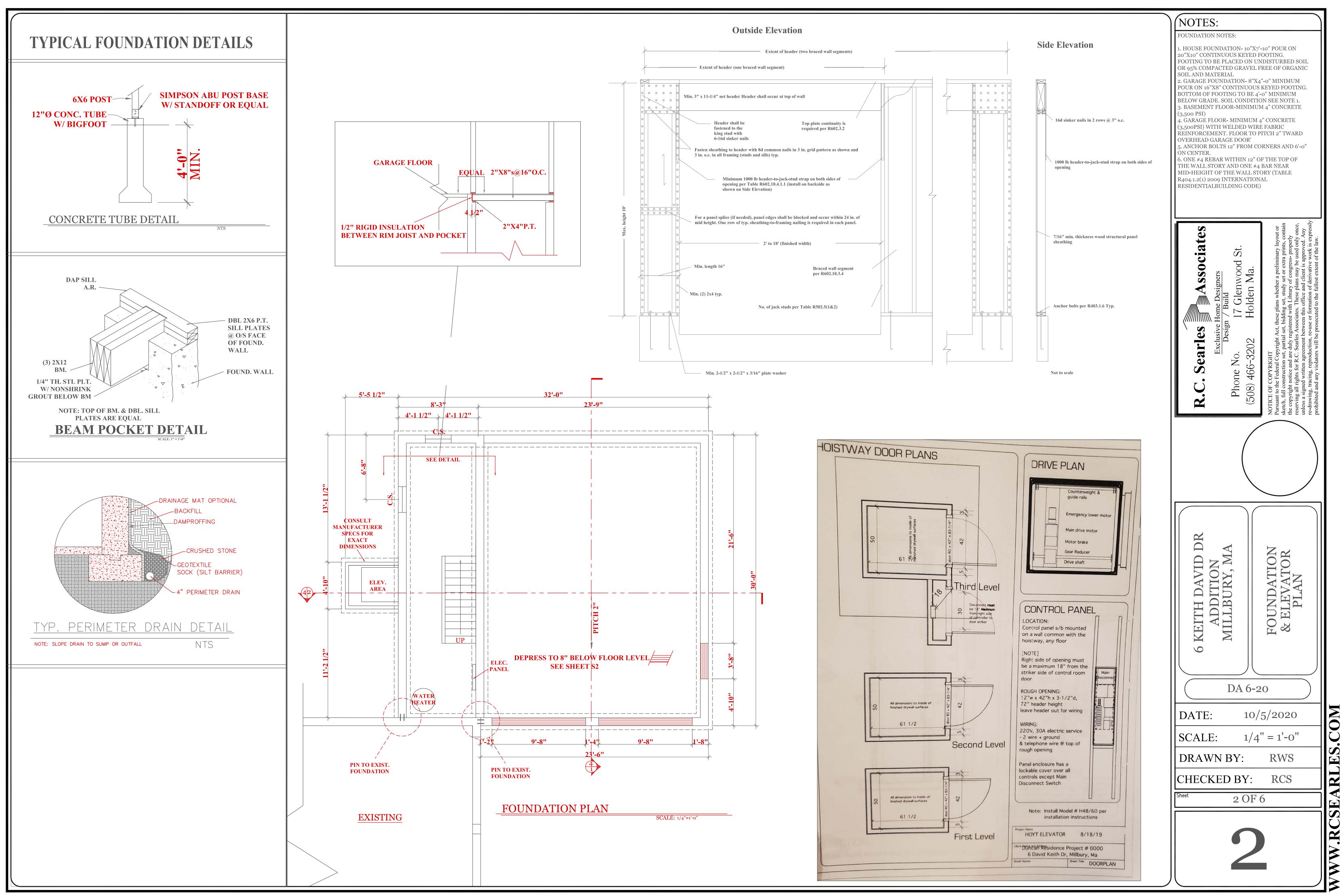
Earl & Marguerite Duncan 6 Keith David Drive Millbury MA 01527 774-276-1332 Eduncan162@gmail.com

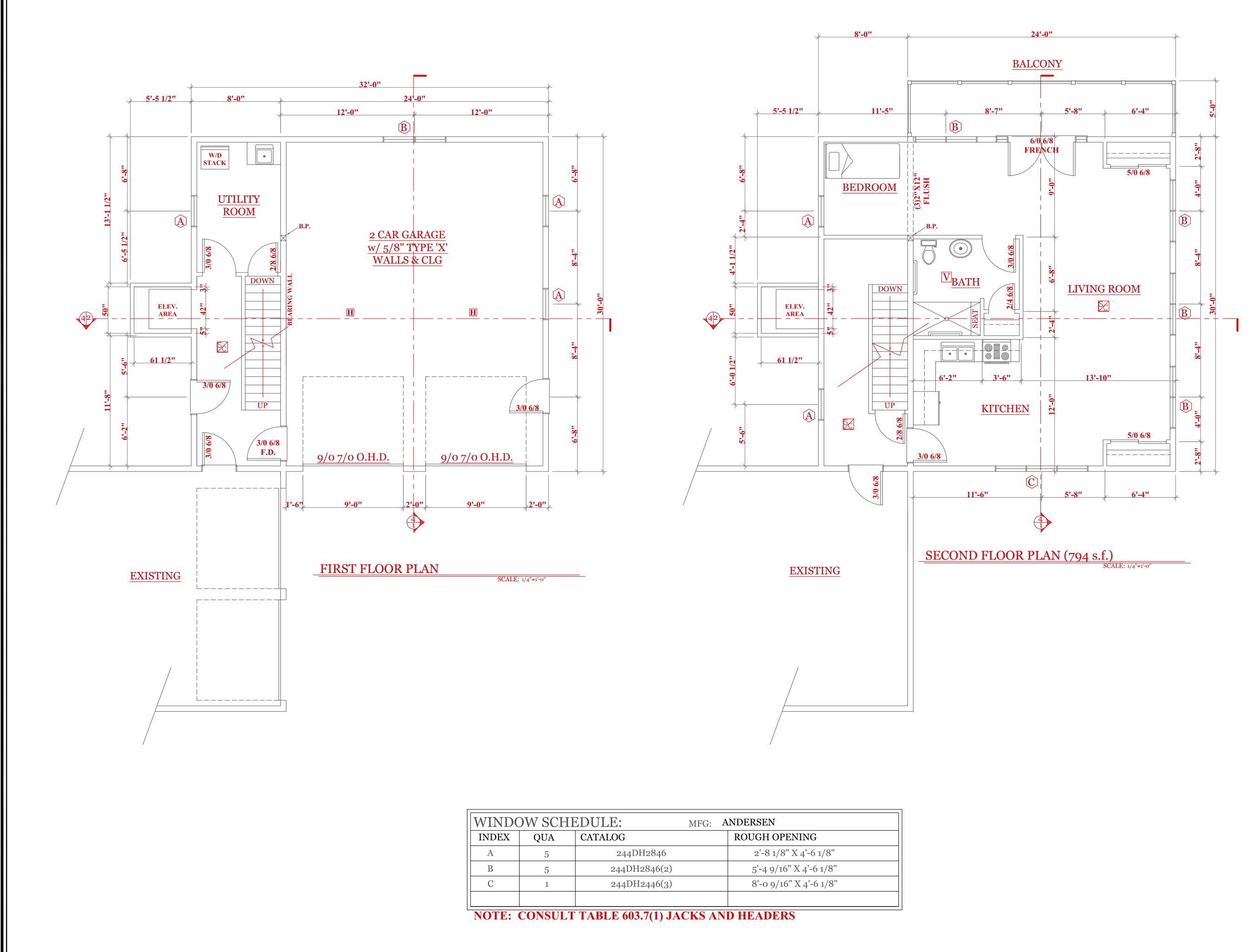




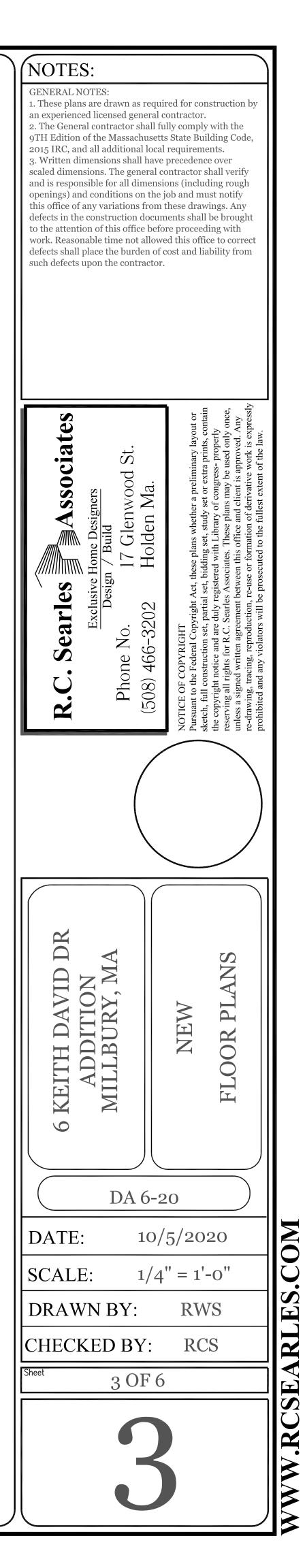


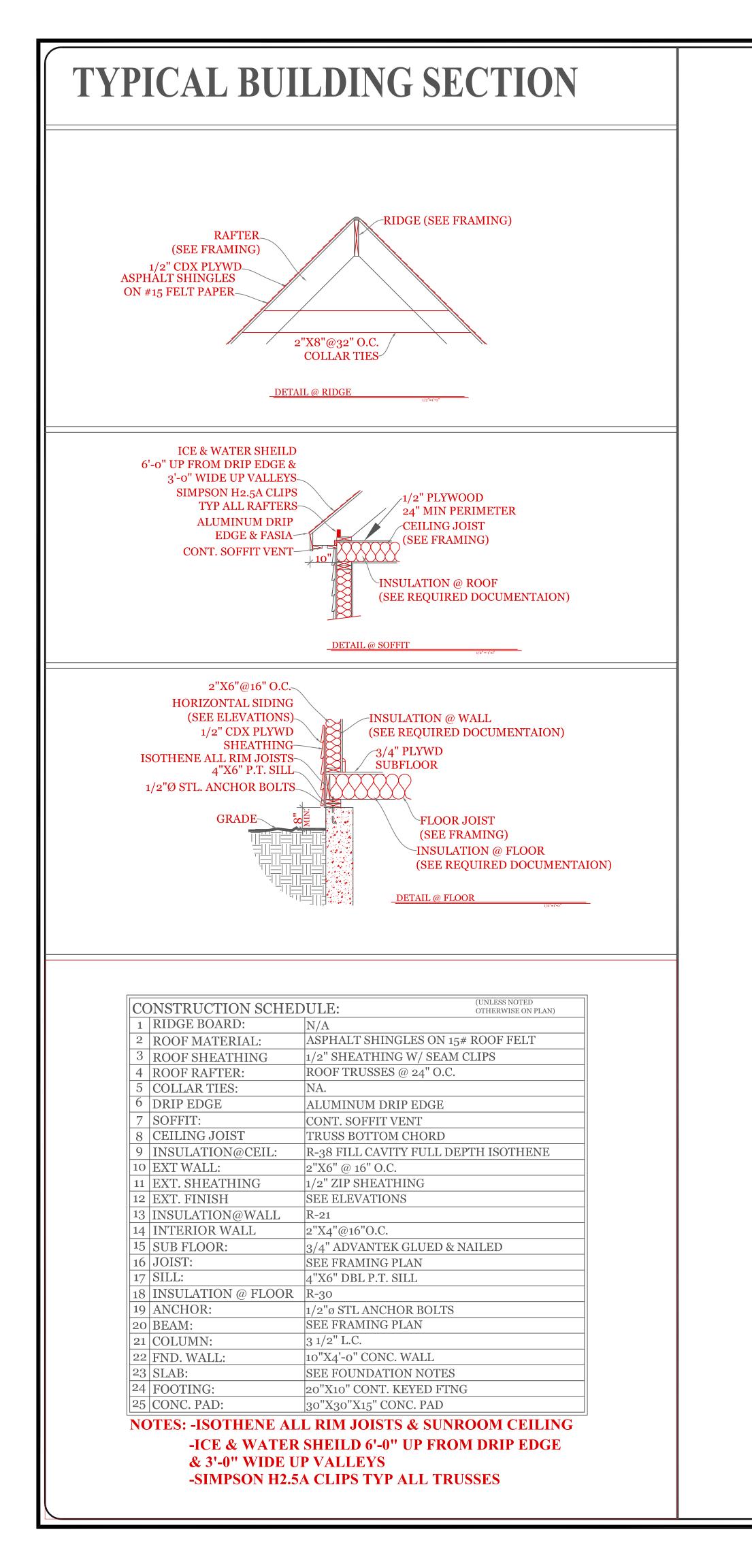
SEARLES.COM

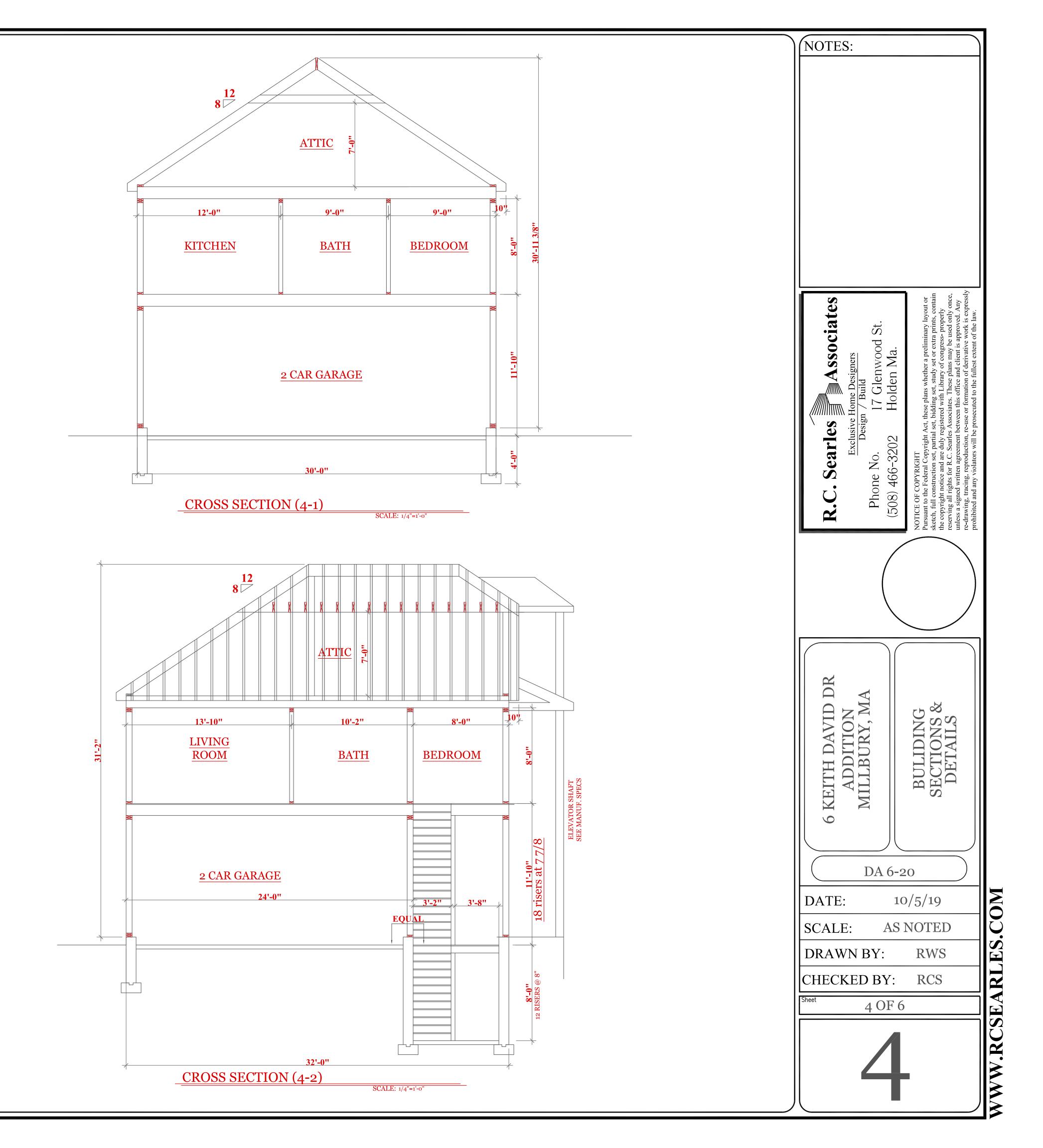


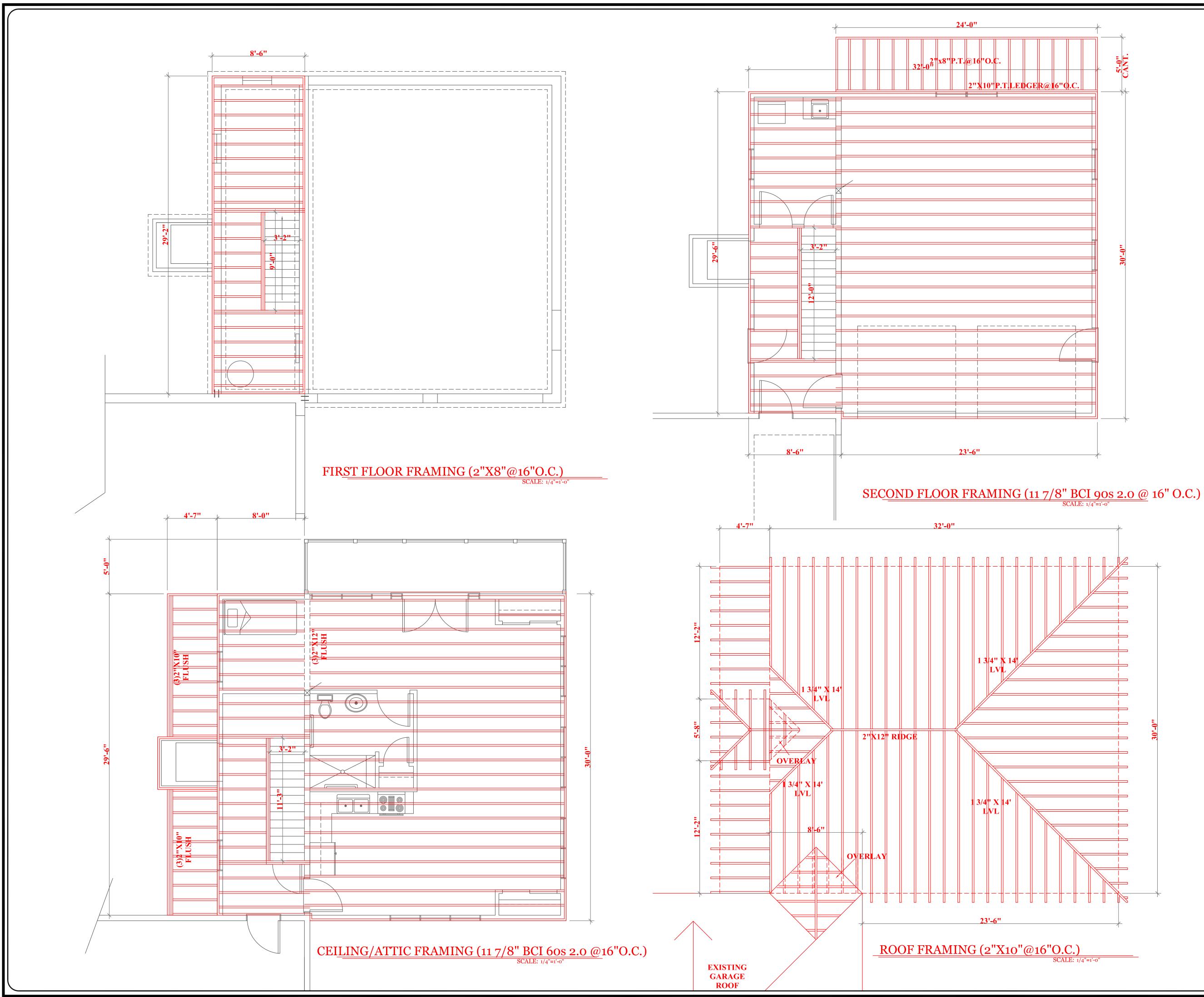


W SCHEDULE:		MFG:	NDERSEN	
QUA	CATALOG		ROUGH OPENING	
5	244DH2846		2'-8 1/8" X 4'-6 1/8"	
5	244DH2846(2)		5'-4 9/16" X 4'-6 1/8"	
1	244DH2446(3)		8'-0 9/16" X 4'-6 1/8"	









NOTES:

ssociates

- FRAMING NOTES:
- Bridging between joists at mid-span.
 Box out all plumbing fixtures with double joists.
- Consult with plumber on chase prior to framing.
- 3. 3/4" T&G plywood sub floor to be glued and nailed.
- 4. Dbl joists under all partition walls. 5. 5/8" firecode Gypsum board on house walls and ceiling
- in garage area. 6. expandable foam insulation required at all window

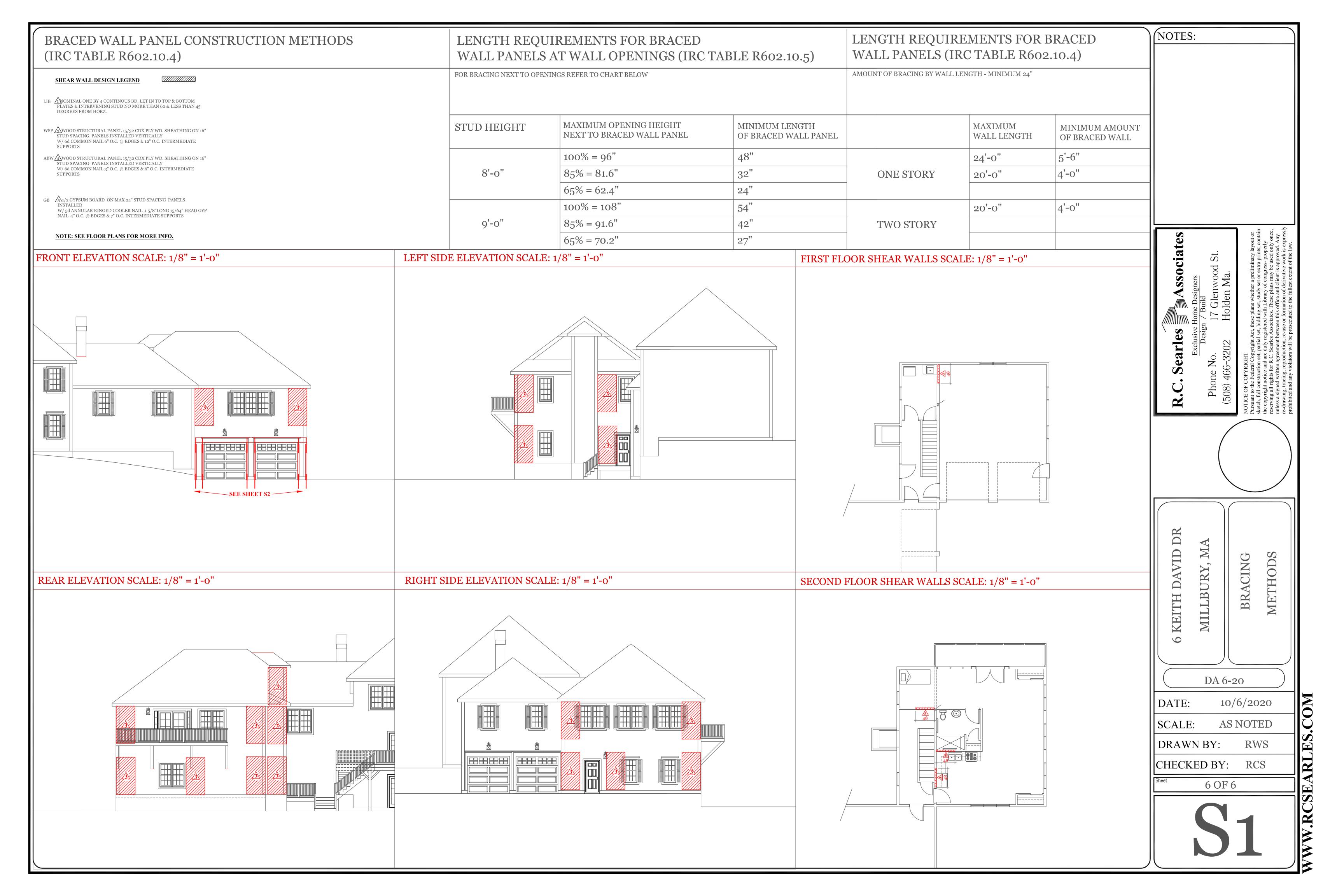
 \mathbf{S}^{t} q

and door frames and rough openings.

17 Glenwo Holden Ma Searles <u>ixclus</u> 3202 \mathbf{Z} 46(Je Phon 508) 4 \bigcirc (20)KEITH DAVID DR. ADDITION MILLBURY, MA FRAMING PLANS 9

DA 6-20 10/6/2020 DATE: AS NOTED SCALE: RWS DRAWN BY: CHECKED BY: RCS 5 OF 6

WWW.RCSEARLES.COM



Data o Cara da				
Boise Cascade® ENGINEERED WOOD PRODUCTS				

BC CALC® Member Report

Single 11-7/8" BCI® 90s-2.0



J01 (Joist) Dry | 1 span | No cant. | 16 OCS | Repetitive | Glued & nailed

October 9, 2020 11:35:54

Build 7787	
Job name:	ADDITIC
Address:	6 KEITH
City, State, Zip:	MILLBU
Customer:	DUNCA
Code reports:	ESR-133

ADDITION 6 KEITH DAVID DRIVE MILLBURY, MA, 01527 DUNCAN ESR-1336

 File name:

 Description:

 Specifier:

 Designer:

 RICK STEPIEN

 Company:

 R.C.SEARLES ASSOCIATES, INC.

×											
/				24-00-00							/ P0
B1		Total H	orizontal F	Product Length	= 24-00-0	0					B2
Reaction Summar	v (Down / Uplift) (lbs)		-							
Bearing	Live	Dead		Snow	v	/ind		Roo	of Live		
B1, 5-1/2"	480 / 0	160 / 0									
B2, 5-1/2"	480 / 0	160 / 0									
Load Summary						Live	Dead	Snow	Wind	Roof Live	ocs
Tag Description	Load Type	Ref	. Start	End	Loc.	100%	90%	115%	160%	125%	
1 11 7/8" BCI 90s 2 @16"O.C.	.0 Unf. Area	(lb/ft²) L	00-00-0	00 24-00-00	Тор	30	10				16
Controls Summar	y Value	% Allov	vable	Duration	Case	Loca	ation				
Pos. Moment	3591 ft-lbs	37.6%		100%	1	12-0	00-00				
End Reaction	640 lbs	35.6%		100%	1	00-0	00-00				
End Shear	616 lbs	28.6%		100%	1	00-0	5-08				
Total Load Deflection	L/558 (0.499")	43.0%		n\a	1	12-0	00-00				
Live Load Deflection	L/744 (0.374")	64.5%		n\a	2	12-0	00-00				
Max Defl.	0.499"	49.9%		n\a	1	12-0	00-00				
Span / Depth	23.5										
Bearing Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Materia	ıl					
B1 Wall/Plate	5-1/2" x 3-1/2"	640 lbs	n∖a	35.6%	Unspecified						
B2 Wall/Plate	5-1/2" x 3-1/2"	640 lbs	n\a	35.6%	Unspe	cified					
BC FloorValue® S	Summary										
BC FloorValue®:	imum Enhanced Drei			B, Glue + Nai	I			Disc	losure	1	
Controlling Location: 12	imum Enhanced Prer 2-00-00	IIIUIII SUDIOO	or Rating:	Premium				Use of t subject	the Boise to the ter	Cascade Some Some Some Some Source So	

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets User specified (L/480) Live load deflection criteria.

Design meets arbitrary (1") Maximum Total load deflection criteria.

BC CALC® analysis is based on IBC 2015.

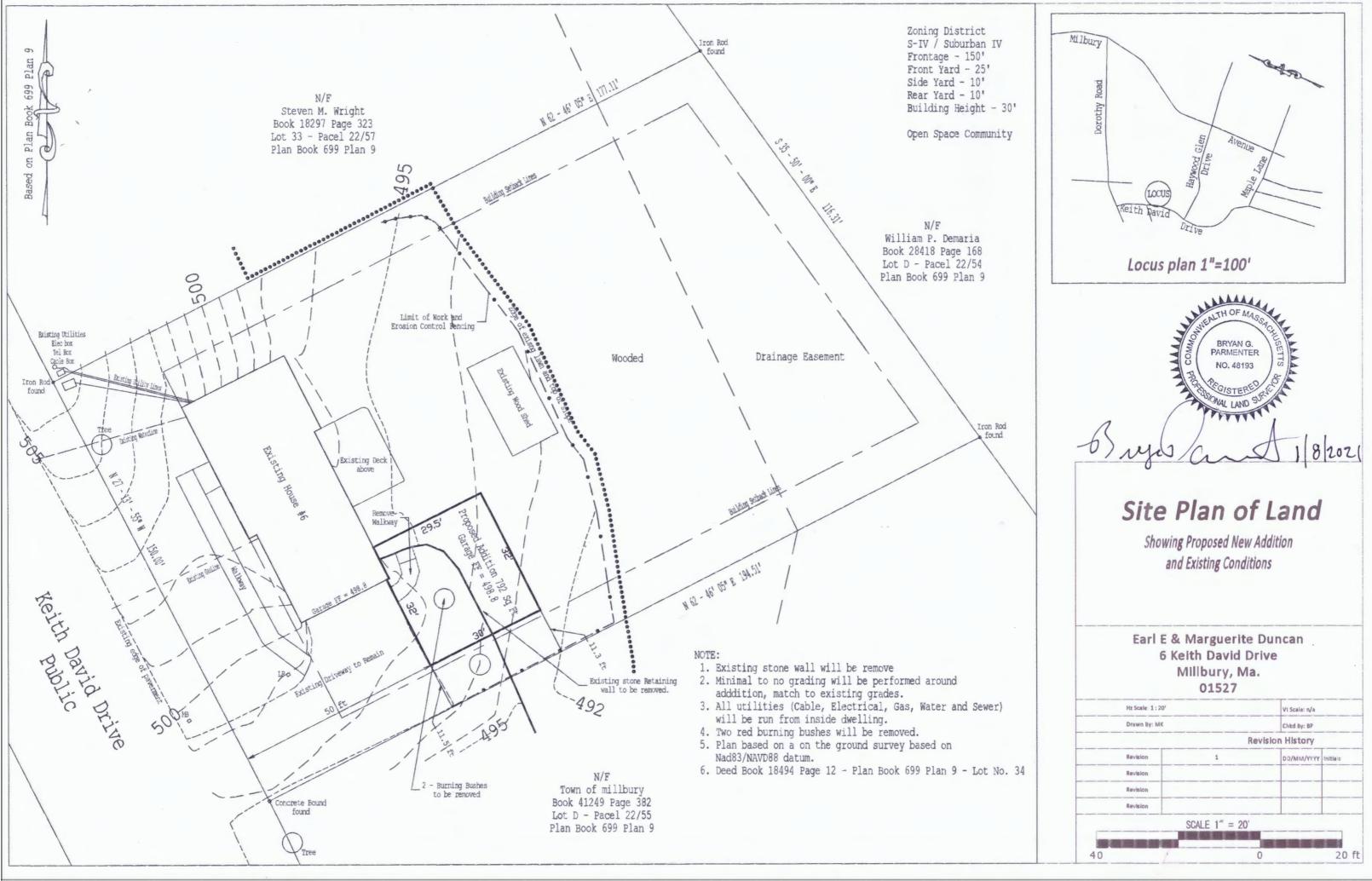
Composite EI value based on 3/4" thick OSB sheathing glued and nailed to member.

Design based on Dry Service Condition.

Calculations assume member is fully braced.

Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER® , AJSTM, ALLJOIST® , BC RIM BOARDTM, BCI® , BOISE GLULAMTM, BC FloorValue® , VERSA-LAM®, VERSA-RIM PLUS® ,



6 Keith David Drive, Millbury, MA 01527 (LOT 34)









6 Keith David Drive, Millbury, MA 01527 (LOT 34) Page 2









National Flood Hazard Layer FIRMette



Legend

71°46'2"W 42°12'51"N SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) Zone A. V. A9 With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS **Regulatory Floodway** 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - - Channel, Culvert, or Storm Sewer GENERAL STRUCTURES LIIII Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation TOWN OF MILLBURY Coastal Transect _ Base Flood Elevation Line (BFE) 250318 Limit of Study Jurisdiction Boundary **Coastal Transect Baseline** ----OTHER Profile Baseline 5027C0809E FEATURES Hydrographic Feature eff. 7/4/2011 **Digital Data Available** No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location. This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/23/2020 at 10:41 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. This map image is void if the one or more of the following map USGS The National Map: Orthoimagery. Data refreshed October, 2020. elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for 71°45'24"W 42°12'25"N Feet 1:6,000 unmapped and unmodernized areas cannot be used for regulatory purposes. 250 500 1,000 1,500 2,000 n

