

NOTICE OF PUBLIC MEETING SUDBURY CONSERVATION COMMISSION

Monday, April 29, 2024 at 7:00 PM Virtual Meeting

The Sudbury Conservation Commission will hold a public meeting to review the Request for Determination of Applicability filing under the Wetlands Protection Act and the Sudbury Wetlands Administration Bylaw to convert existing deck into a sunroom and storage within the 100-foot Buffer Zone and 200-foot Riverfront Area at 53 Thunder Road, in Sudbury, MA. Hanmeng Liu, Applicant. The meeting will be held on Monday, April 29, 2024 at 7:00 pm, via Zoom.

Copies of the application may be reviewed on the Conservation Department web page at:

 $\underline{https://sudbury.ma.us/conservationcommission/meeting/conservation-commission-meeting-monday-April-29-2024/}$

Please contact the Conservation Office with any questions at 978-440-5470.

SUDBURY CONSERVATION COMMISSION 4/12/2024



Massachusetts Department of Environmental Protection Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Municipality

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Α.	General Information								
1.	Applicant:								
	First Name	Last Name							
	Address								
	City/Town	State	Zip Code						
	Phone Number	Email Address							
2.	Property Owner (if different from Applicant):								
	First Name	Last Name							
	Address								
	City/Town	State	Zip Code						
	Phone Number	Email Address (if kno	wn)						
3.	Representative (if any)								
	First Name	Last Name							
	Company Name								
	Address								
	City/Town	State	Zip Code						
	Phone Number	Email Address (if kno	wn)						
В.	Project Description								
1.	a. Project Location (use maps and plans to identify	the location of the are	ea subject to this request):						
	Street Address	City/Town							
	Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)	Longitude (Decimal Degrees Format with 5 digits after decimal e.gXX.XXXXX)							
	Assessors' Map Number	Assessors' Lot/Parce	Assessors' Lot/Parcel Number						
	b. Area Description (use additional paper, if necessary):								
	c. Plan and/or Map Reference(s): (use additional paper if necessary)								
	o. Transaria, or map resorting (5). (ase additional)								

Title

How to find Latitude and Longitude

and how to convert to decimal degrees

Date



Massachusetts Department of Environmental Protection Bureau of Water Resources - Wetlands WPA Form 1- Request for Determination of Applicability Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Municipality

B.	Proj	ect l	Descri	ption ((cont.)
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2.	a.	Activity/Work Descri	ption (use a	additional pap	er and/or p	provide pla	n(s)	of Activity.	if necessary	/):

	b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the	
	from having to file a Notice of Intent for all or part of the described work (use additional pap necessary).	er, II
3.	a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.)
	☐ Single family house on a lot recorded on or before 8/1/96	
	☐ Single family house on a lot recorded after 8/1/96	
	Expansion of an existing structure on a lot recorded after 8/1/96	
	Project, other than a single-family house or public project, where the applicant owned the before 8/7/96	he lot
	☐ New agriculture or aquaculture project	
	☐ Public project where funds were appropriated prior to 8/7/96	
	Project on a lot shown on an approved, definitive subdivision plan where there is a recorrestriction limiting total alteration of the Riverfront Area for the entire subdivision	orded deed
	Residential subdivision; institutional, industrial, or commercial project	
	☐ Municipal project	
	☐ District, county, state, or federal government project	
	Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quali Certification from the Department of Environmental Protection.	
	b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the class above (use additional paper and/or attach appropriate documents, if necessary.)	sification



Massachusetts Department of Environmental Protection Bureau of Water Resources - Wetlands

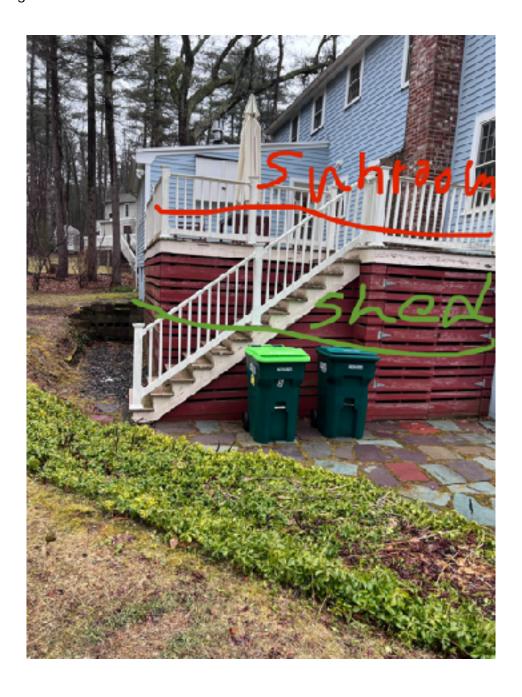
WPA Form 1- Request for Determination of Applicability Sudbury Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

C.		Determinations	
1.	re	quest the Sudbury Conservation Commission	make the following determination(s). Check any that apply:
		a. whether the area depicted on plant jurisdiction of the Wetlands Protection	(s) and/or map(s) referenced above is an area subject to n Act.
		b. whether the boundaries of resource above are accurately delineated.	ce area(s) depicted on plan(s) and/or map(s) referenced
		c. whether the Activities depicted on Protection Act and its regulations.	plan(s) referenced above is subject to the Wetlands
		d. whether the area and/or Activities of jurisdiction of any municipal wetland	depicted on plan(s) referenced above is subject to the ds' ordinance or bylaw of:
		Sudbury	
		Name of Municipality	
		e. whether the following scope of alt depicted on referenced plan(s).	ernatives is adequate for Activities in the Riverfront Area as
D.		Signatures and Submitta	I Requirements
l her and knov	acc	companying plans, documents, and su	that the foregoing Request for Determination of Applicability pporting data are true and complete to the best of my
Offic	e w	r certify that the property owner, if diffe were sent a complete copy of this Requ neously with the submittal of this Requ	erent from the applicant, and the appropriate DEP Regional uest (including all appropriate documentation) uest to the Conservation Commission.
Failu Dete	re rmi	by the applicant to send copies in a tir ination of Applicability.	mely manner may result in dismissal of the Request for
Sign	atu	res:	
also n ac	o ur	nderstand that notification of this Requidance with Section 10.05(3)(b)(1) of t	uest will be placed in a local newspaper at my expense he Wetlands Protection Act regulations.
	1	tanner lin	03/08/WWf
5	Sign	dnmen Lin ature of Applicant	Date
5	Signa	ature of Representative (if any)	Date

Dear Members of Commission,

The projects are mainly in the back of our house, using existing restructure to make home improvement, footprint will remain same, please see below pictures for proposed projects

Convert existing deck to four season sunroom(Red line), and enclose the under area(Green Line) storage like snow removal tools



Below is the full picture of the back yard

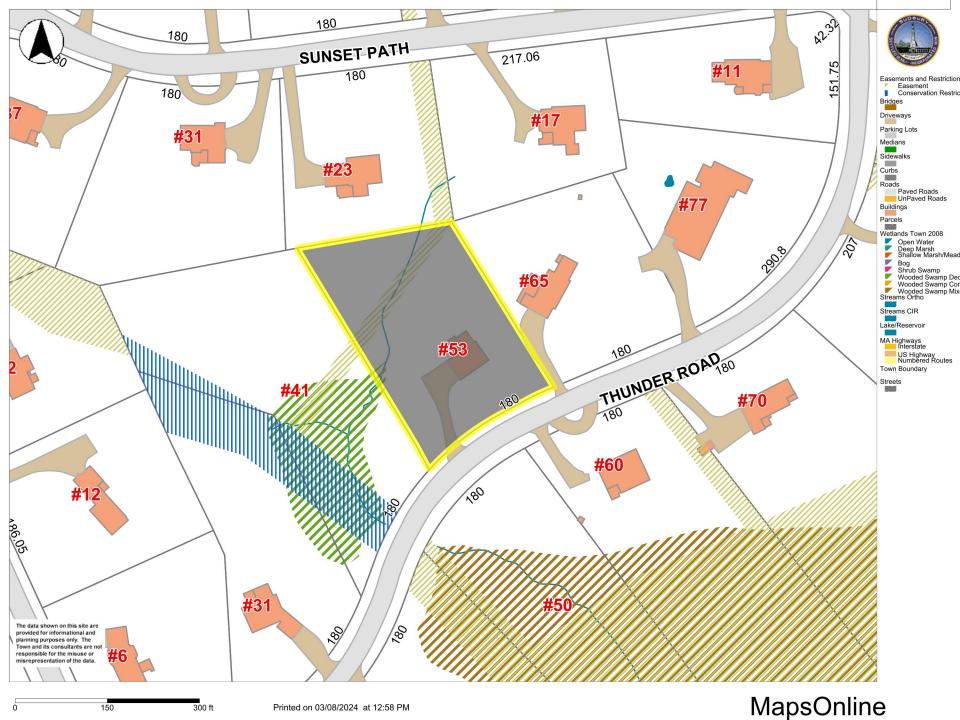


About the area:

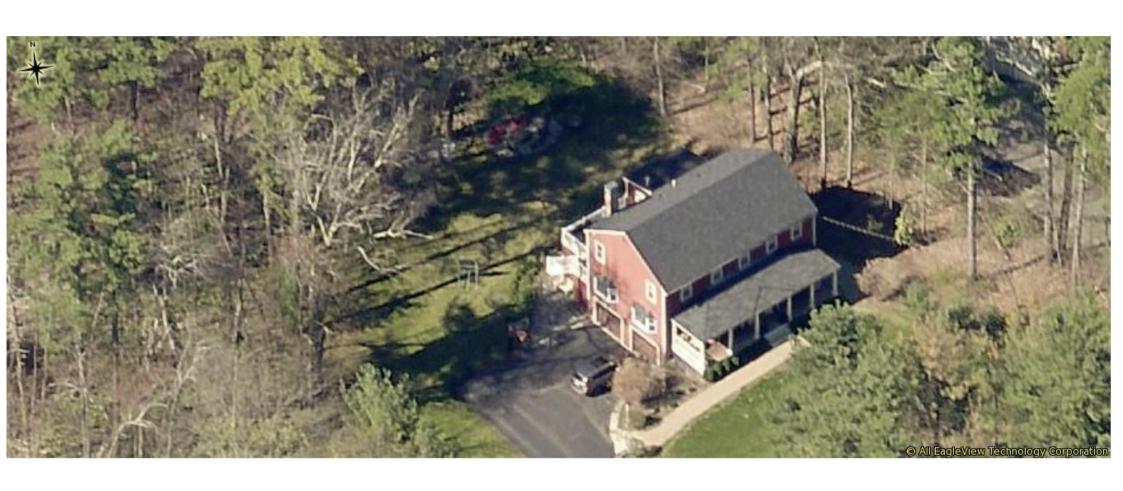
Our location is about 1 acre lot, with easement and stream flow through the back, and wetland-swamp is at the side near our house, see below picture, we also attached town_map and town_map_image for the lot image

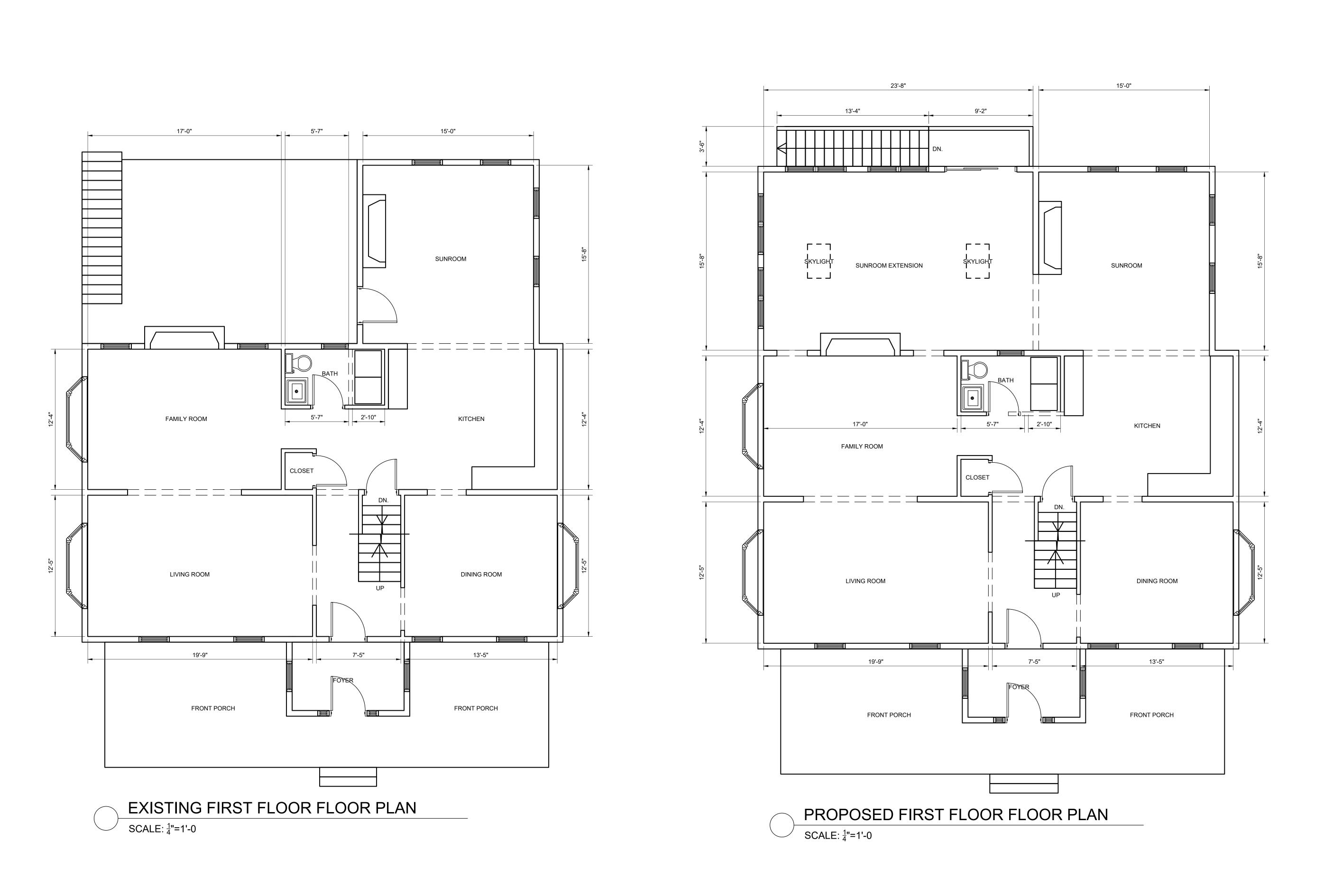
Sincerely, Hanmeng





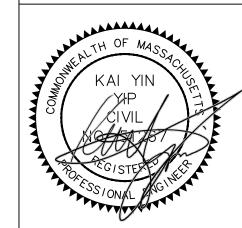
Town_map_image





S & Y DESIGN AND ENGINEERING LLC 555 HANCOCK ST QUINCY MA 02170

KAI YIN YIP, P.E. TEL: (646) 420-9896 E-MAIL: KAIYIN.YIP@GMAIL.COM



PROPOSED ADDITION - SINGLE FAMILY DWELLING 53 THUNDER RD. SUDBURY, MA.

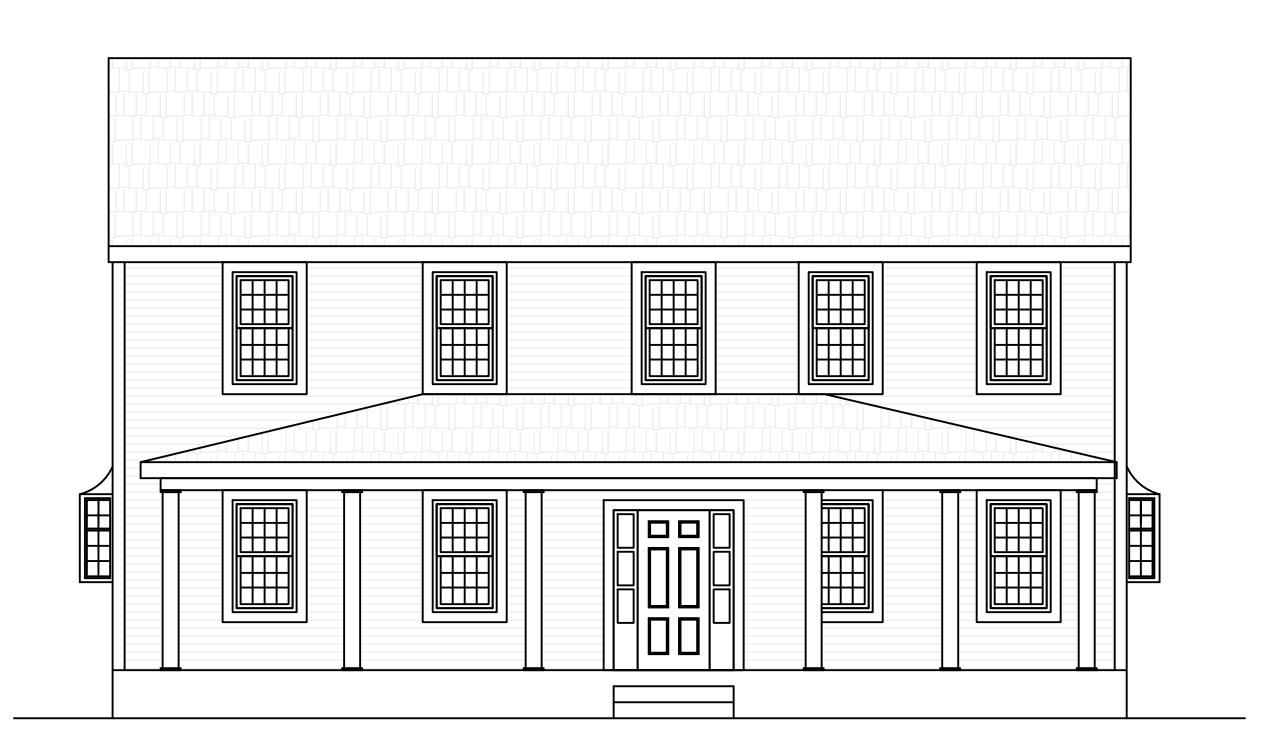
CHECKED BY:

A-1



EXISTING SOUTH (FRONT) ELEVATION

SCALE: ¹/₄"=1'-0



PROPOSED SOUTH (FRONT) ELEVATION

SCALE: 1/2 = 1'-0





PROPOSED WEST (LEFT) ELEVATION

SCALE: ¹/₄"=1'-0

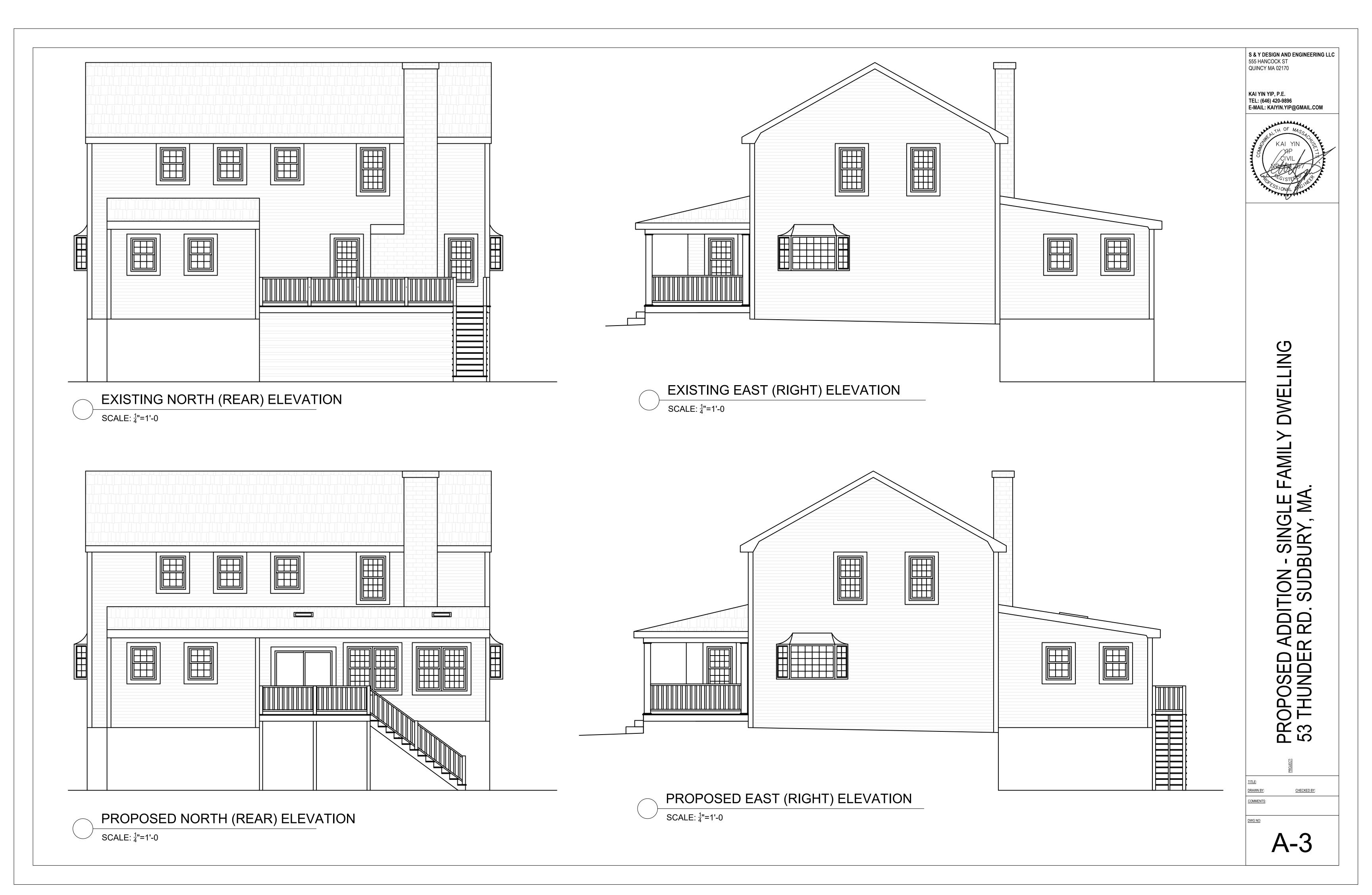
PROPOSED ADDITION - SINGLE FAMILY DWELLING 53 THUNDER RD. SUDBURY, MA.

CHECKED BY:

A-2

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GENERAL NOTES

WOOD (780 CMR 23.0)

1. ALL WOOD CONSTRUCTION SHALL BE SECURELY AND CONTINUOUSLY FASTENED TO SUPPORTING ELEMENTS BELOW. WOOD BEARING ON CONCRETE OR MASONRY FOUNDATION WALLS SHALL BE ATTACHED WITH ANCHOR BOLTS OR EXPANSION BOLTS CONNECTED TO APPROVED METAL CONNECTORS TO PREVENT LATERAL DISPLACEMENT. ALL WOOD POSTS SHALL HAVE APPROVED METAL CONNECTORS TOP AND BOTTOM. ALL FLUSH FRAMED JOISTS SHALL BE CONNECTED (SUPPORTED) WITH METAL HANGERS APPROVED BY DESIGNER. ALL ROOF RAFTERS SHALL BE SECURED WITH METAL HURRICANE ANCHORS AT EXTERIOR OVERHANGS.

2. WOOD IN CONTACT WITH CONCRETE, OUTDOORS, OR IN MOIST CONDITIONS SHALL BE PRESERVATIVE PRESSURE—TREATED. WOOD REQUIRED TO BE NON—COMBUSTIBLE SHALL BE FIRE—RETARDANT PRESSURE—TREATED IN ACCORDANCE WITH THE CODE.

3. STRUCTURAL LUMBER AND MANUFACTURED WOOD SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE FOLLOWING TABLE.
DIMENSION LUMBER SHALL BEAR THE GRADE STAMP OF A GRADING AUTHORITY RECOGNIZED IN THE NATIONAL DESIGN SPECIFICATION OF THE AMERICAN FOREST AND PAPER ASSOCIATION:

	7100001177074:							
<u>TYPE</u>	<u>APPLICATION</u>	<u>SPECIES</u>	<u>GRADE</u>	TREATMENT	FB (PSI)	Fv (PSI)	Fc (PSI)	E (PSI)
DIMENSION LUMBER	JOISTS, BEAMS, RAFTERS	SPRUCE—PINE—FIR (SOUTH)	_	1 ///////	1200/1400 REPETITIVE	70	575	1,200,000
DIMENSION LUMBER	POSTS & STUDS	SPRUCE—PINE—FIR (SOUTH)	STUD	NONE	600	70	625	1,000,000
DIMENSION LUMBER	MOIST CONDITIONS	MIXED SOUTHERN PINE	NO. 2	PRESERVATIVE PRESSURE TR.	875	90	1400	1,400,000
LAMINATED VENEER LUMBER	BUILT-UP BEAMS	MANUFACTURED	1.8 E	NONE	2600	285	2400	1,800,000
PARALLEL STRAND LUMBER	POSTS, BEAMS	MANUFACTURED	2.0 E	NONE	2900	290	2900	2,000,000

4. CUTTING AND NOTCHING OF STRUCTURAL WOOD MEMBERS IS NOT PERMITTED EXCEPT BY THE EXPRESS DIRECTION OR WRITTEN PERMISSION OF THE DESIGNER

5. STUD BEARING WALLS SHALL HAVE BLOCKING BETWEEN STUDS FOR EVERY 4 FEET OF HEIGHT. ALL STUD WALLS ARE TO BE SHEATHED BOTH SIDES WITH PLYWOOD OR GYPSUM WALL BOARD UNLESS SPECIFICALLY NOTED OTHERWISE. INTERSECTING EXTERIOR STUD WALLS SHALL BE SECURELY FASTENED TOGETHER AND THE BOTTOM PLATES THROUGH BOLTED, ANCHOR BOLTED, OR METAL STRAP CONNECTED TO SUPPORTS BELOW THE INTERSECTION TO SAFEGUARD AGAINST UPLIFT AT EACH LEVEL.

6. WOOD FRAMED FLOORS SHALL HAVE BRIDGING OR SOLID BLOCKING FOR EVERY 8 FT. OF SPAN. STRUCTURAL ADHESIVE SHALL BE USED BETWEEN JOISTS AND SUBFLOOR, IN ADDITION TO NAILING.

7. FASTENERS FOR WOOD CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING STANDARDS (USE 780 CMR 120.Q):
NAILS FOR LUMBER AND SHEATHING: MASS. BUILDING CODE APPENDIX C

NAILS FOR METAL CONNECTORS:

MANUFACTURER'S RECOMMENDATIONS

STEEL BOLTS AND THREADED STOCK: ASTM A307

STRUCTURAL ADHESIVE:

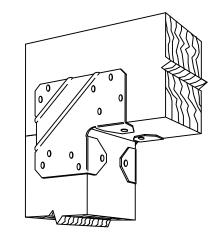
ASTM D3498 (PL-400 AND LIQUID NAILS LN-902 CONFORM TO THIS STANDARD)

GALVANIZED OR STAINLESS STEEL FASTENERS SHALL BE USED AT EXTERIOR OR MOIST CONDITIONS.

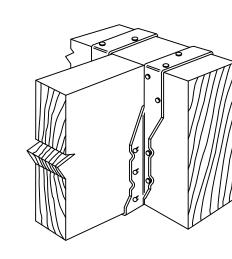
8. PLYWOOD MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE APA—ENGINEERED WOOD ASSOCIATION AND SHALL BEAR A STAMP INDICATING THICKNESS, SPAN RATING, AND TYPE. PLYWOOD SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE FOLLOWING TABLE AND SHALL BE ERECTED WITH THE FACE GRAIN PERPENDICULAR TO SUPPORTS.

<u>APPLICATION</u>	<u>TYPE</u>	<u>THICKNESS</u>	SPAN RATING	<u>EXPOSURE CLASS</u>	<u>EDGE</u>
SUBFLOORS	STURD-I-FLOOR	3/4"	24 O.C.	EXPOSURE 1	T&G
EXTERIOR WALLS	RATED SHEATHING	1/2"	32 / 16	EXTERIOR	PLAIN
ROOF SHEATHING	RATED SHEATHING	5/8"	32 / 16	EXTERIOR	PLAIN

9. LUMBER AND PLYWOOD DELIVERED TO THE JOB SITE SHALL BE PROTECTED FROM MUD, ICE, WATER, AND SNOW, AND SHALL BE STORED OFF THE GROUND IN A MANNER TO PRESERVE THE STRAIGHTNESS OF THE PIECES.

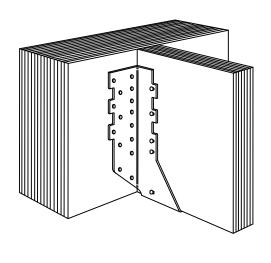




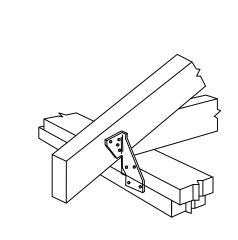


MOUNTED JOIST HANGER

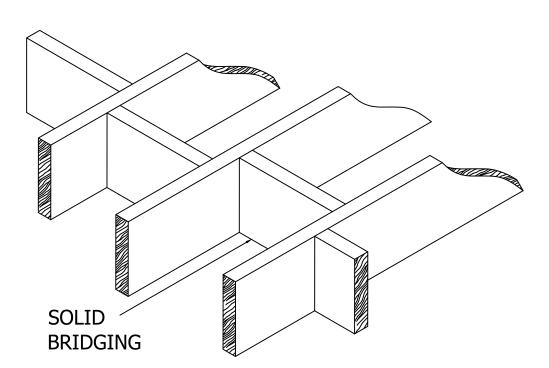
SCALE:N.T.S



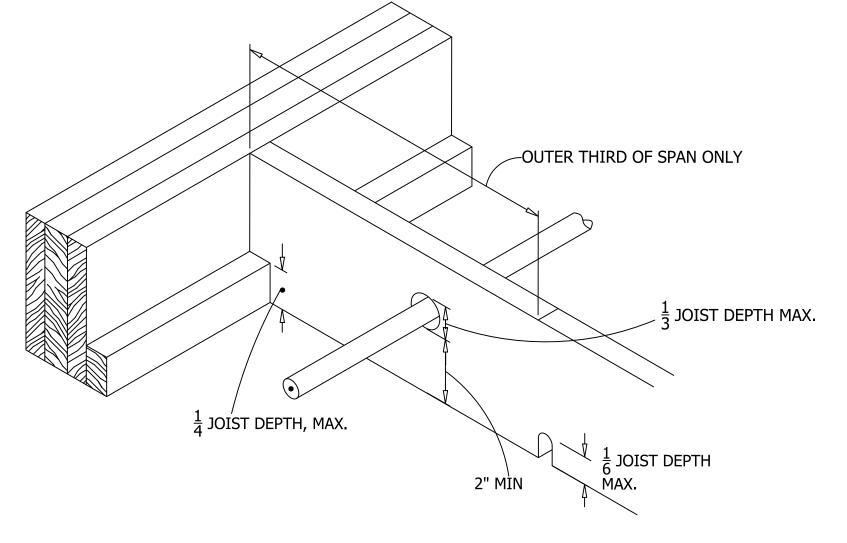
JOIST-TO-BEAM CONNECTION



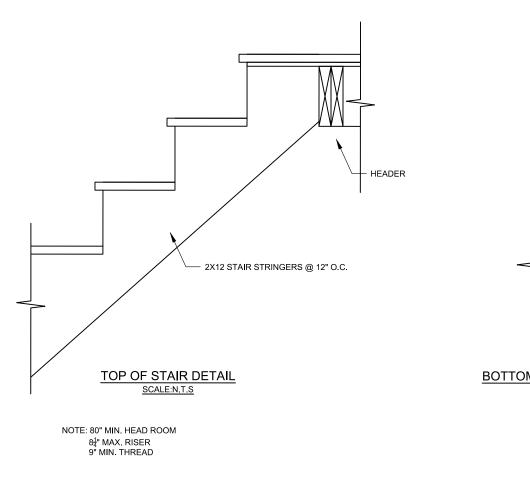
RAFTER-TO-TOP PLATE TWIST STRAF



TYPICAL SOLID BLOCKING AT FLOOR JOISTS

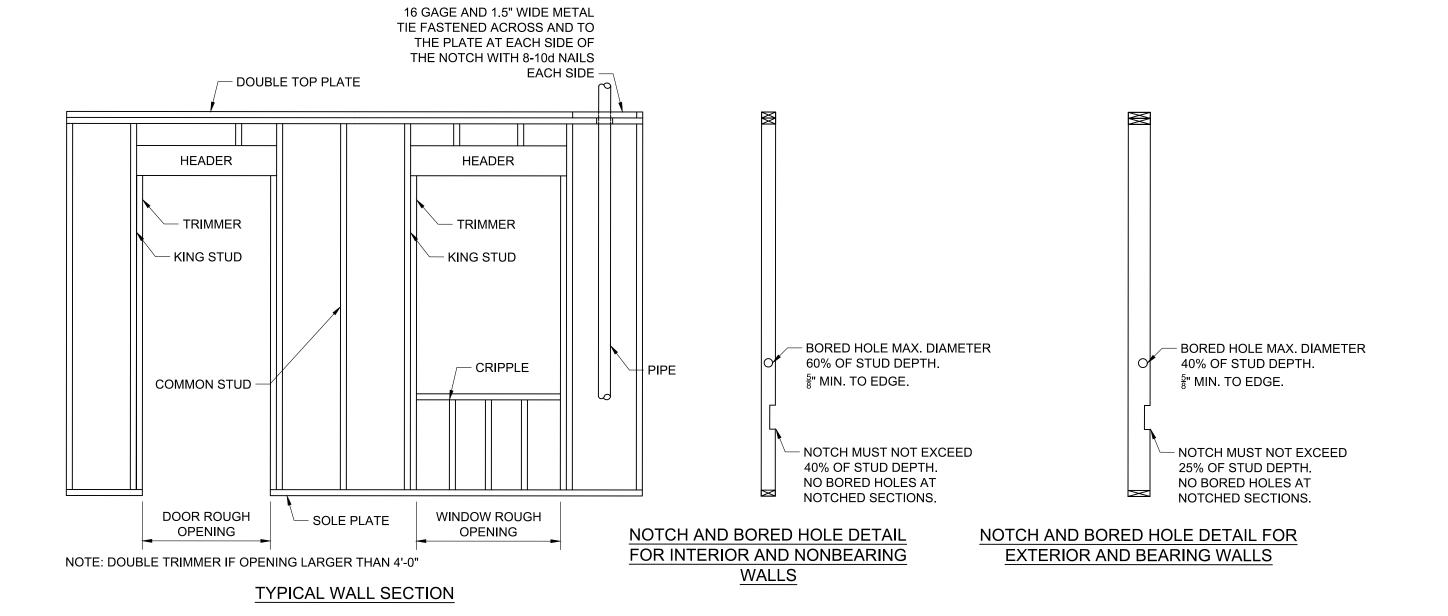


CUTTING AND NOTCHING OF JOISTS



2X12 STAIR STRINGERS @ 12" O.C.

BOTTOM OF STAIR DETAIL
SCALE:N.T.S



DWG NO:

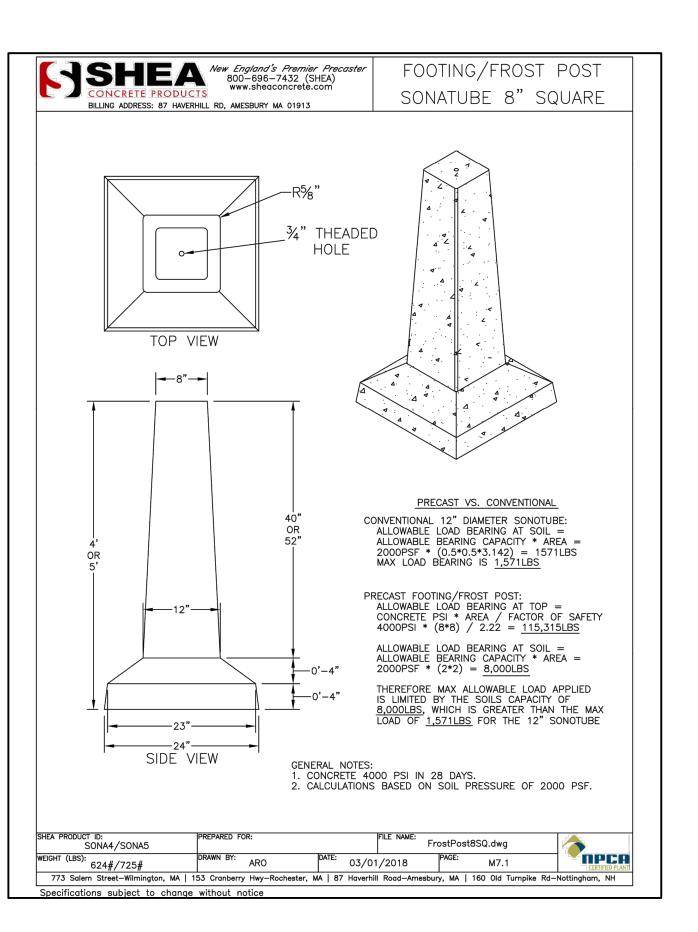
S-1

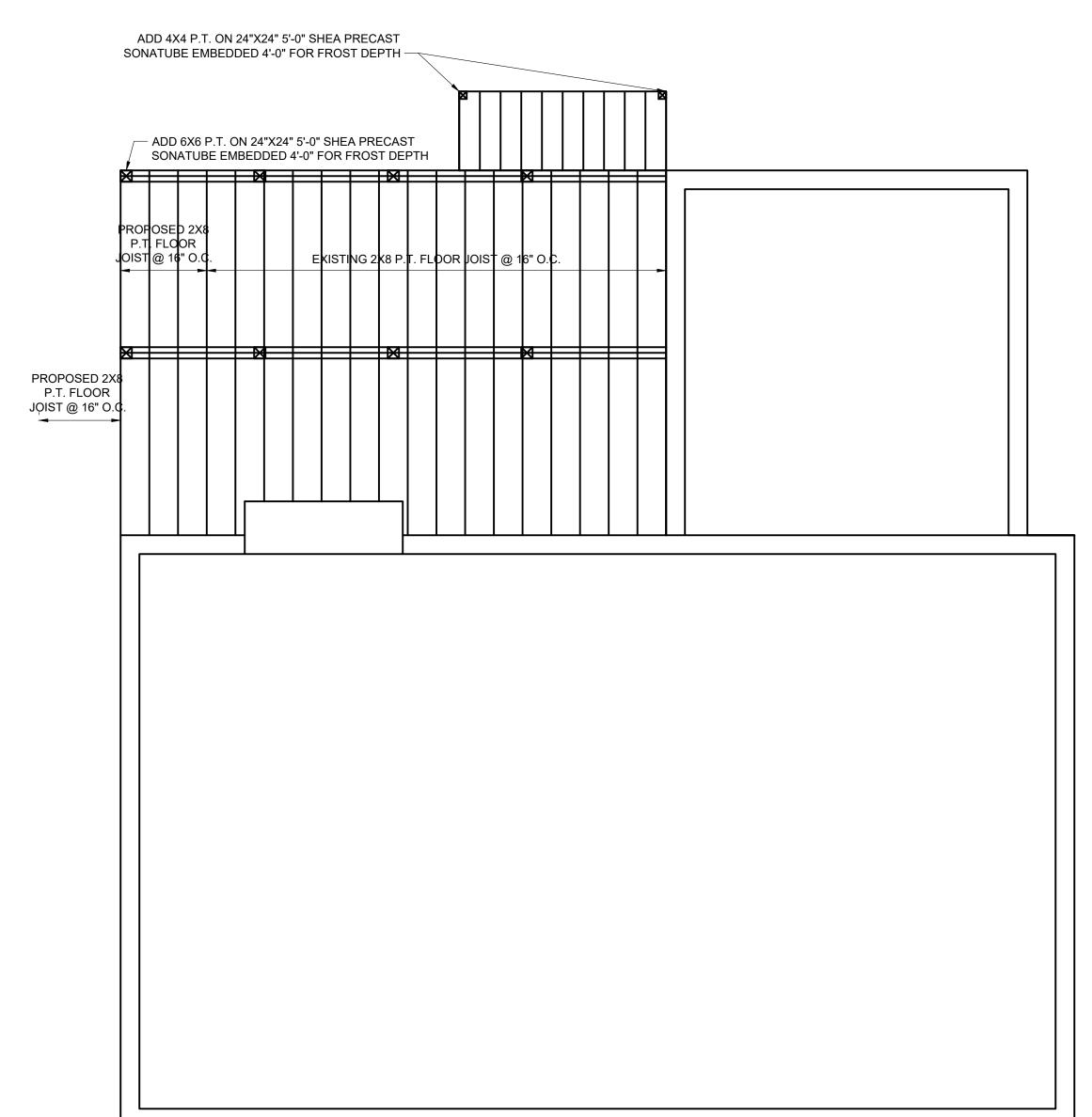
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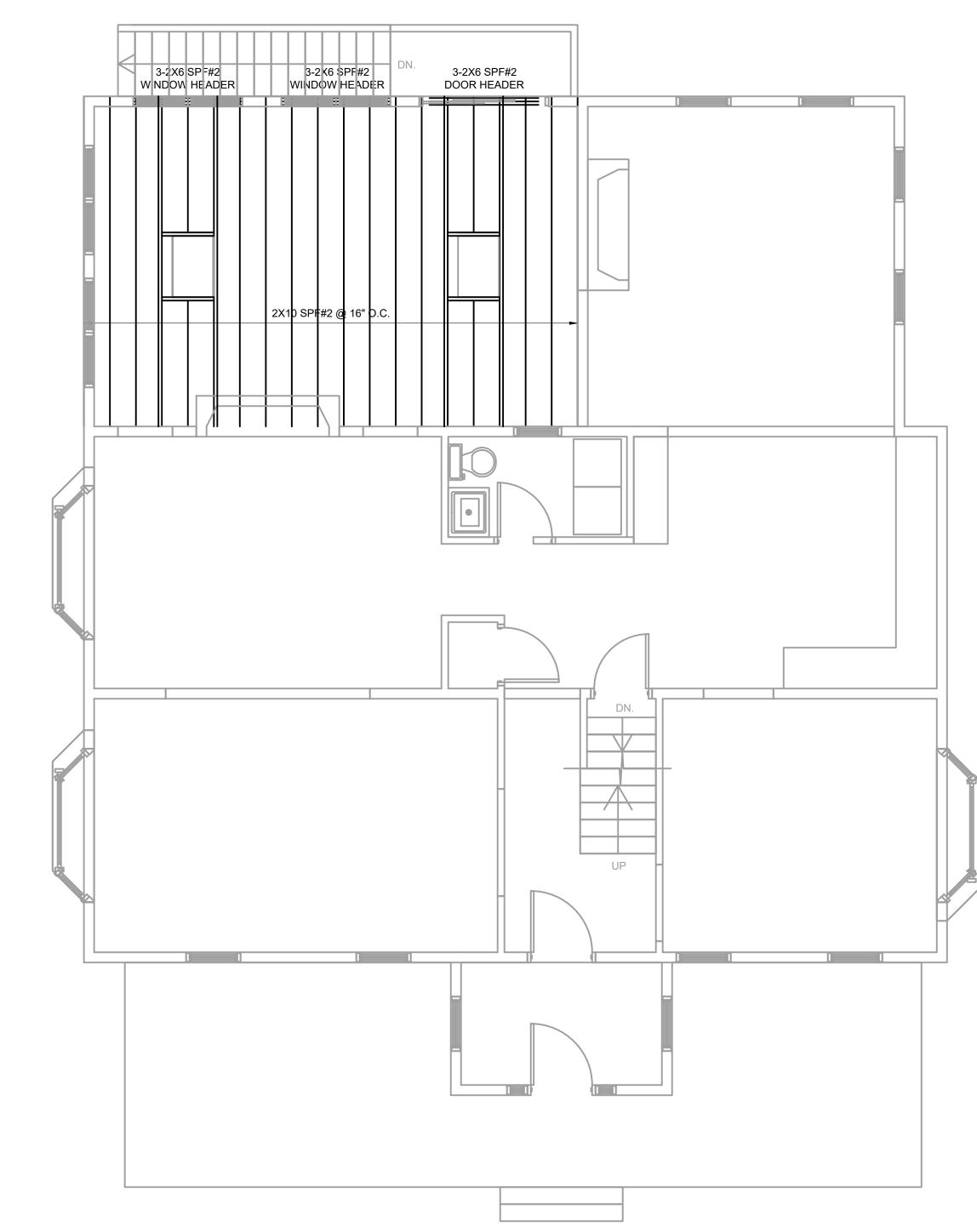
S & Y DESIGN AND ENGINEERING LLC 555 HANCOCK ST QUINCY MA 02170





PROPOSED SUNROOM EXTENSION FRAMING PLAN

SCALE: 4"=1'-0

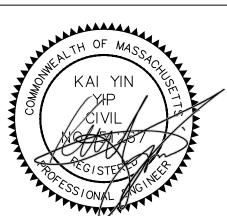


PROPOSED SUNROOM ROOF FRAMING PLAN

SCALE: 1/4"=1'-0

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PROPOSED ADDITION - SINGLE FAMILY DWELLING 53 THUNDER RD. SUDBURY, MA.

TITLE:
DRAWN BY: CHECKED BY:

COMMENTS:

S-2