

# WESTWOOD BOARD OF APPEALS APPLICATION FOR HEARING

1.	Name of Applicant:
2.	Applicant is (check one): Owner Tenant Abutter Purchaser Other
3.	Mailing address of Applicant:
4.	Telephone - Home: Business:
5.	E-Mail Address of Applicant:
6.	Address of Property subject to Hearing:
7.	Owner of Property:
8.	Mailing Address of Property Owner:
9.	Telephone - Home: Business:
10.	Deed recorded in: Norfolk County Registry of Deeds: Book # Page #
or	Land Court Registry: Certificate # Book # Page #
11.	<b>Property</b> MAP # LOT # DISTRICT
12.	Has an appeal/application ever been filed with the ZBA on this property? (Y/N) If yes, when:
13.	NATURE of Application (check one):  Appeal in accordance with MA G.L.Ch. 40A, Sec. 8 as amended Special Permit in accordance with MA G.L.Ch.40A, Sec. 9 as amended Variance in accordance with MA G.L. Ch. 40A, Sec. 10 as amended

When applying for a Special Permit under Section 9.3 of the Westwood Zoning Bylaw, please make sure that you and/or your attorney refer to the specific bylaw regarding this section.

**STATE the EXACT NATURE of this application** including the applicable section number(s) of the Westwood Zoning Bylaw:

I hereby request a hearing before the Westwood Board of Appeals with reference to the subject property.

I am aware that the <u>cost of legal advertising</u> will be billed to me directly as the Applicant, by the newspaper at a later date. I am also aware of the provisions in the Zoning Bylaw with regard to <u>Reimbursement for Consultants</u>, and I agree to reimburse the Board of Appeals and the Town of Westwood for all costs incurred by the Town or its' Boards for all fees, expenses and costs in connection with the review and evaluation of the Application for Special Permit and/or Variance.

I have reviewed the Zoning Board of Appeals Instructions and Information and understand the time requirements.

Signed: July Call APPLICANT'S SIGNATURE (or Agent)	Date: 3/27/17
Signed:	Date:

SCHEDULE OF FILING FEES FOR THE BOARD OF APPEALS

Residential Properties - \$165.00

Business Properties - \$330.00

Comprehensive Permits - \$2530.00

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6 copies of the OPTIONAL Appendices (if completed)

6 copies of a Certified Plot Plan - size 11" x 17"

6 copies of the Building Plans (interior and/or exterior as applicable) – size 11" x 17"

6 copies of the Building Commissioner's denial of a building permit or equivalent

<u>File</u> the six (6) packets in the Town Clerk's office located at 580 High Street making sure to include a check for the filing fee in the correct amount.

<u>Deliver</u> one (1) electronic copy of the Application with attachments to the Office of the Board of Appeals at 50 Carby Street.

#### **OPTIONAL**

#### **APPENDIX A – Variance Worksheet**

The Variance must be with respect to particular land or structures.

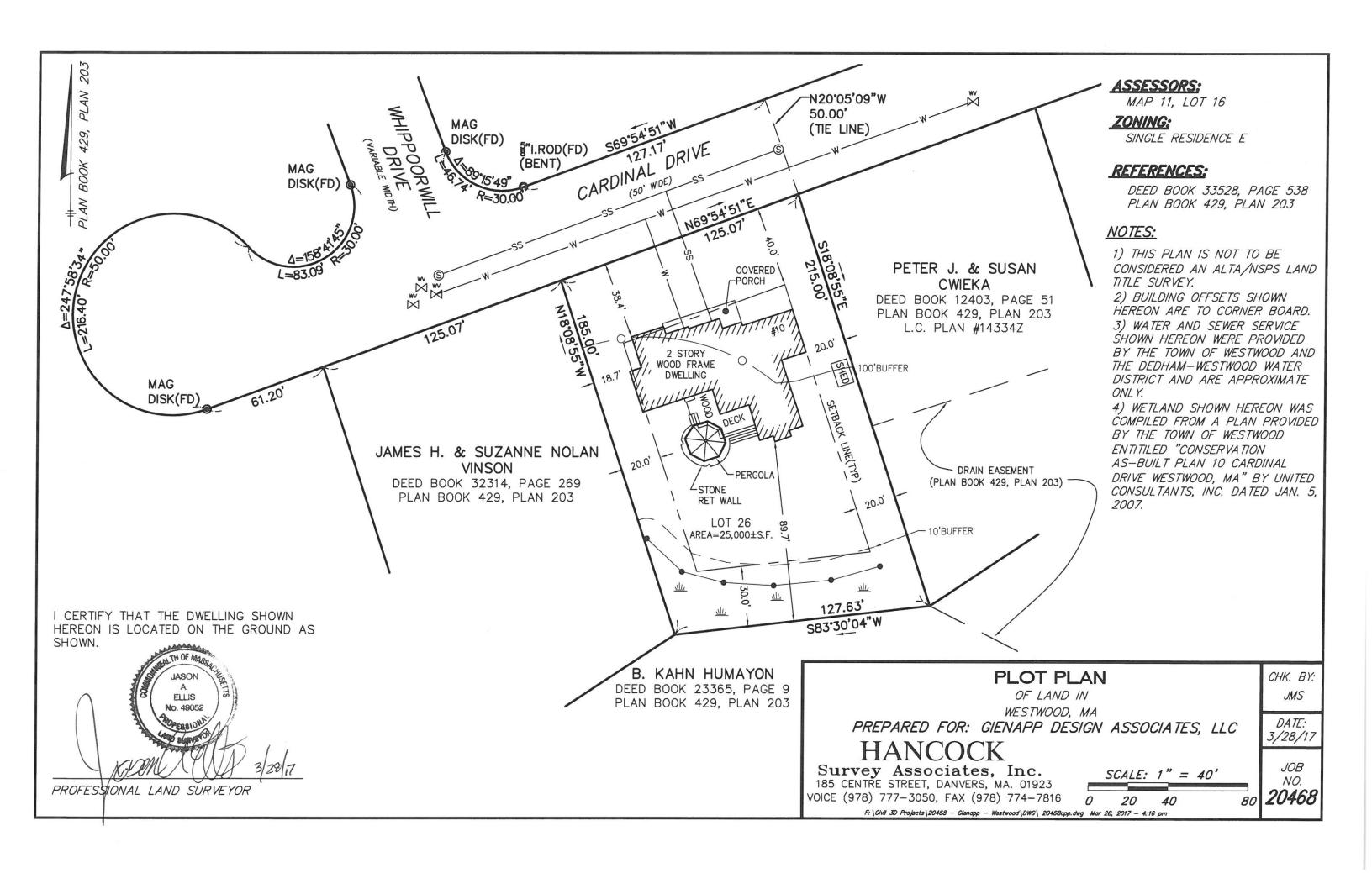
•	Parcel of Land:
•	Structures:
	must be circumstances relating to soil conditions, shape, and topography of such land or structures and ally affecting such land or structures, but not affecting generally the zoning district in which it is located.  Finish the existing attic will have less impact than building an addition  Circumstances would be:
	enforcement of the provisions of the bylaw would involve substantial hardship, financial or otherwise, to the per or appellant.  There would be significant more cost to build an addition than to Hardship would be: utilize the existing large attic.
	ole relief may be granted without detriment to the public good and without nullifying or substantially derogating e intent or purpose of such bylaw.
•	Relief would be: Allow the construction of the shed dormer. The highest point of the proposed dormer is approximately 10ft below the height of the existing roof.
•	Detriment would be:
•	Intent or purpose of Bylaw section?
•	Would the Variance nullify intent or purpose above?  No. Due to the siting and wetlands, the dormer is essentially not visible from a public way or adjacent homes. In addition, the dormer is small and visually diminutive compared to the existing roof.
•	Is there any substantial derogating (lessening) of the intent or purpose and if so, what is it?

*	-DENN	29
DATE ISSUED:	FEE PAID:	NO.:
_	APPLICATION FOR P	ERMIT TO BUILD
To the Building Co	mmissioner:	Date:
The undersigned hereby applied submitted herewith.	es for a permit to Build - Alter - Remodel, etc., according	ng to information indicated in this application and plans and specification
	PLEASE PRINT	CLEARLY
IMPORT	ANT – Applicant to complete al	l items in sections I, II, III, IV, AND V
	<del></del>	

submitted herewith.								
	PLE/	ASE PRINT CLEAF	RLY	· · · · · · · · · · · · · · · · · · ·				
IMPORTANT - App	IMPORTANT – Applicant to complete all items in sections I, II, III, IV, AND V							
I. LOCATION OF BUILDING	G							
STREET ADDRESS 10	Cardinal	Devie	B SIDE	YARD SETBACK				
(NO.)	(STREE			YARD SETBACK				
ZONING DISTRICT LO	T FRONTAGE							
ASSESSORS MAP # LO								
				<u>"</u>				
II. TYPE AND COST OF BU		· · · · · · · · · · · · · · · · · · ·						
A. TYPE OF IMPROVEMENT  1 New Building	D. PROPOS	ED USE For "Wrecking		ent use SIDENTIAL				
S Addition	13 One Fami			sement, recreational				
3 Alteration		ore family – Enter	-	ch, other religious				
4 Repair, replacement	number of		21 Indus	*				
5 Wrecking	15 Transient	hotel, motel, or		ng garage				
6 Moving (relocation)		- Enter number of units		ce station, repair garage				
7 Foundation only	16 Garage		24 Hosp	ital, Institutional				
8 Pools, Fences, Towers	17 Carport		25 Office	e, bank, professional				
Tennis Courts, etc.	18 Other - S	pecify	26 Publi	c Utility FEB 2.8 20				
B. OWNERSHIP				ol, library, other educational				
9 Private (Individual, Corporation, nonprofit Institution, ect.)				s, mercantile COMMISSIONER OF BL				
				s, towers				
10 Public (Federal, State or Local Government)		-	30 Otne	r - Specify				
C. COST	(Omit cents)	E. TYPE OF OCCUPAN						
11 Cost of Basic Contruction	\$ 185,000	Briefly outline scope a						
To be installed but not included in the above cost		Add 2 Sed		9 bath				
a. Electrical	\$ 10,000	to attic	perp	lans				
b. Plumbing	10,000							
c. Heating, air conditioning	15,000							
d. Other (elevator, etc.)	\$ 220,000		<u>-</u>					
12 TOTAL COST OF IMPROVEMENT  III. SELECTED CHARACTE		BIII DING For new!	buildings and	d additions, complete Parts E-L; for wrecking,				
F. PRINCIPAL TYPE OF FRAME	TIO FILE	H. TYPE OF SEWAGE D	only Part J,	for all others skip to IV.				
31 Masonry	ı	A) Public Sewer	igr QGAL	49 Number of stories				
32 Wood frame		42 Private (septic tank, e	tc.)	50 Total sq.ft. of floor area,				
33 Structural steel				all floors, based on exterior				
34 Reinforced concrete		I. TYPE OF WATER SU		dimensions				
35 Other - Specify		44 Private (well)	pany	51 Total land area, sq.ft.				
		TT FIIVAGE (WEII)		L. NUMBER OF OFF - STREET				
G. PRINCIPAL TYPE OF HEATING FL	JEL	J. TYPE OF MECHANIC		PARKING SPACES				
•	Other - Specify	Will there be air condition	ning?	52 Enclosed				
37 Oil 39 Coal		45 Yes 46 No		53 Outdoors				
		Will there be an elevator?	7	M. RESIDENTIAL BUILDINGS ONLY 54 No. of bedrooms				
		7/ 199 40 NU		54 No. of bedrooms				
<u> </u>	_			1 20 110 OLDGOIGH TOLIGH				

IV. TO BE COMPLETED BY ALL	APPLICANTS USE N/A IF	NOT APPLICABLE						
_	ndIf filled land how long ago filled							
2. Will foundation be laid on earth, rock, timb	er, piles							
3. Foundation material (oncrete								
4. Roof (flat, pitched) 12 5. Roof covering 450 Left	sh miles							
6. Will all construction to be performed confo	m to State and Local Building Codes VsC							
7. Has the applicant complied with the Architectural Access Code								
8. Does this Building or Structure conform to	Ed as							
9. Has the applicant complied with the Energy	Code Yrs							
10. Is this property in the FLOOD PLAIN AREA								
	IENT SIGNED UNDER PENALTIES							
V. IDENTIFICATION - To be comple	ted by all applicants – Complete street a	nd mailing addresses						
NAME	COMPLETE ADDRESS	HOME & BUS. PHONE						
Owner or Steven Werth	10 Cardinal Dr	781 492 6813						
Lessee								
Builder Progress Contracting	5 July Dawn Dr	617594 9392						
Contractor	Franklin MA							
Architect/ Girney Design	20 Longert St	978 750 9062						
Engineer	Danvers MA							
I hereby certify that the proposed work is authori application as his authorized agent.	zed by the owner of record and that I have been aut	horized by the owner to make this						
Signature of Applicant ) Address Application Date								
(11 m)	5 Julie Dam Dr	2/8/17						
This permit is approved subject to the provisions of all Federal and State Laws, Rules & Regulations and Con. Com. approval.								
Sewer Permit No. COMMENTS - DEPARTMENT USE ONLY								
Sanitary Permit No. (Title V)								
Highway Dept. Permit  Fire Dept Permit  REAR DORWAR								
PLUI DING COMMISSIONER'S DENIAL								
CONTRACTOR LICENSING INFORMATION  22011 CKS VNRANCE  UNDER SECTION 5.4.4.1								
Construction Supervisor License No. 087703	The A Table Man	TO TO THE TOTAL PARTY OF THE TOT						
Date of Expiration 9 (7) (8	at a second about a partition of a partition of the parti	or a Building Permit and						
Home Improvement Contractor No. 13818		le Zoming Board of Appears						
Date of Expiration 3/3/11	J. 191	DING COMMISSIONER						
	DOM							
A. I hereby certify under penalty of pe	jury that I carry Workers' Compensation	Insurance Coverage.						
Signature:								
Name of insurance Company:								
Policy Number:Exp	iration Date:							
B. I do not carry Workers' Compensation of the complex of the comp	on Coverage as I am an unincorporated ed sub-contractors for all work.	sole proprietorship with						
Signature								

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# Project Summary

This project is a renovation of an existing residence in Westwood, MA consisting of adding finish space on the Attic floor level into two bedrooms with closets, a sitting area, and a bathroom. This includes mechanical, plumbing, electrical, and structural work.

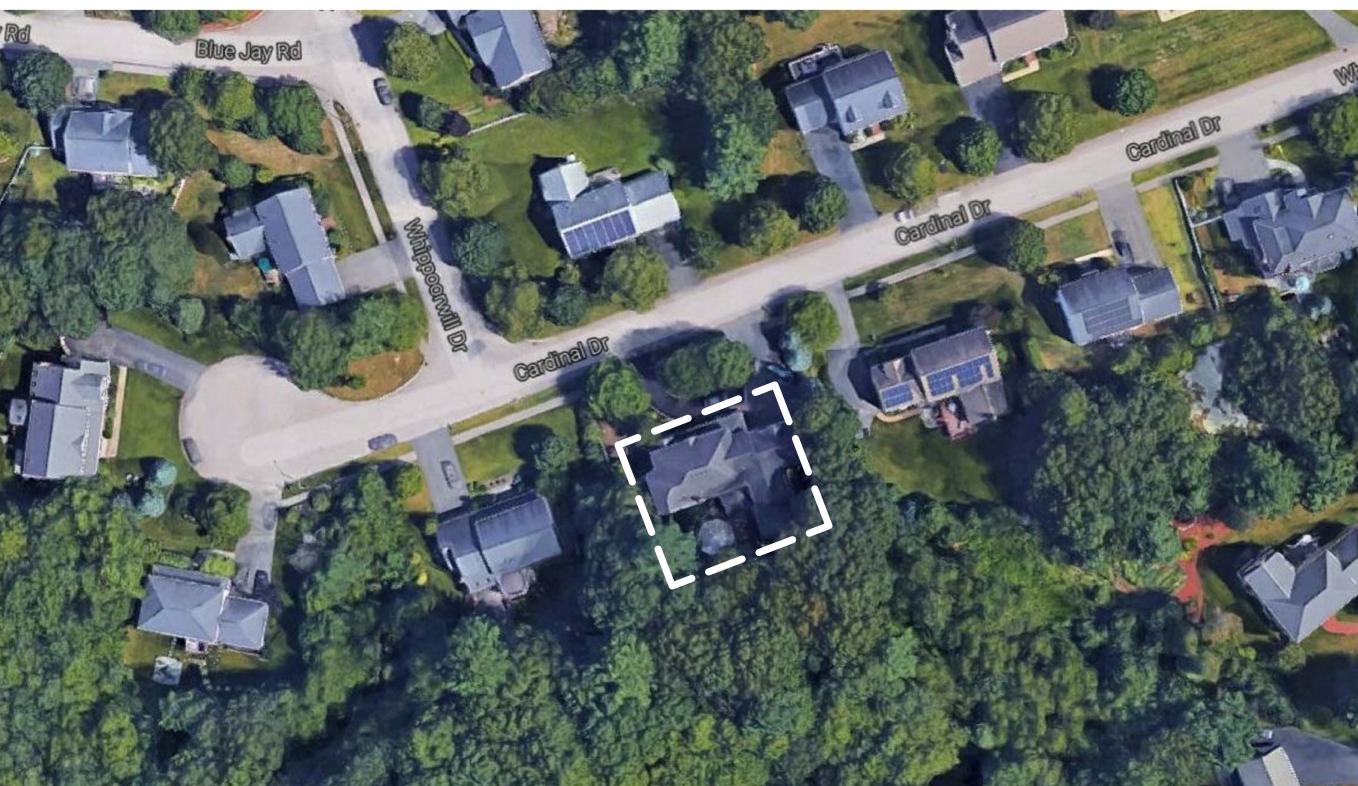
#### **BIDDING INFORMATION**

This is an invitation to provide a quote for the Renovation of the Attic for the Werth Residence located at 10 Cardinal Drive, Westwood, MA.

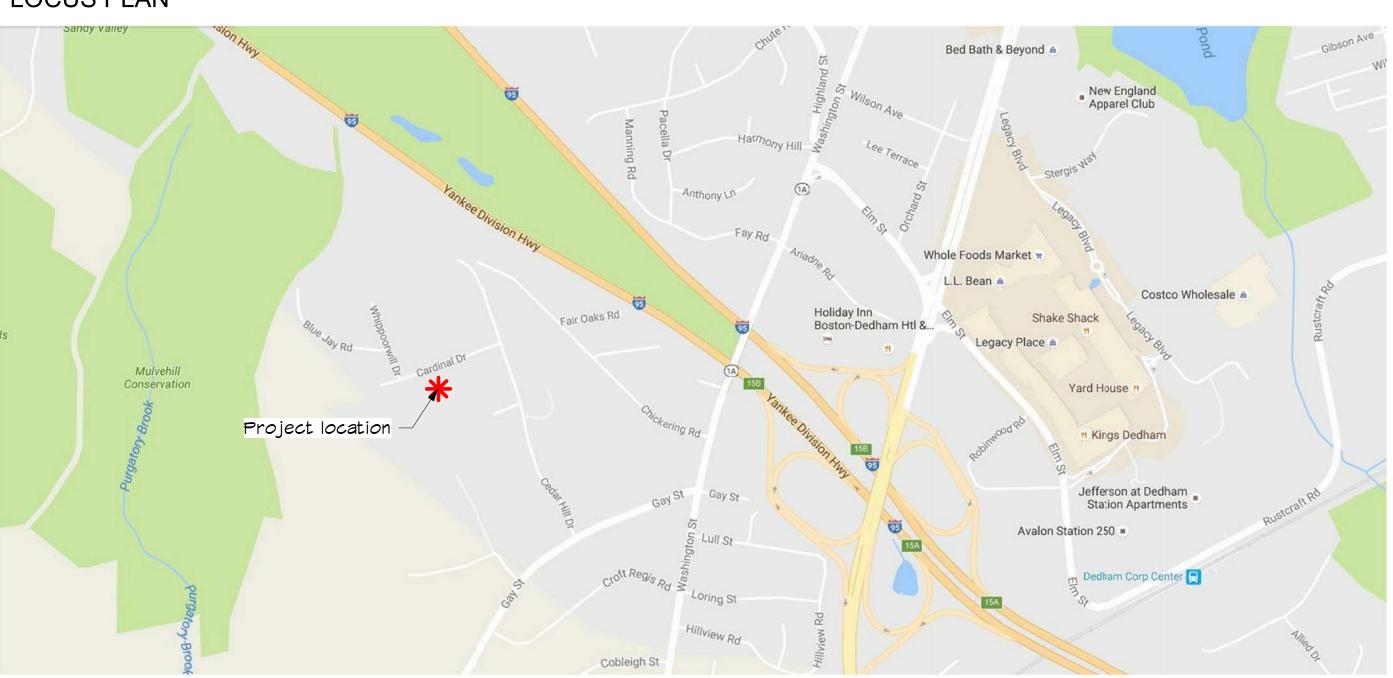
Proposals are due to Gienapp Design by **Tuesday**, **January 31**, **2017 at 2:00pm**. Proposals may be submitted by fax to 978-750-9063 or by email to jbrauer@gienappdesign.com. (If additional time is needed, please contact Jackie Brauer at 978-750-9062 x.115 or at jbrauer@gienappdesign.com.) For technical questions, please contact Dale Gienapp at 978-750-9062 x.112 or at dgienapp@gienappdesign.com.

To schedule a visit the site, please contact Jackie Brauer to set up a meeting with the Owner. A pre-bid walkthrough is scheduled for 10am on Tuesday, January 17, 2017.

#### **AERIAL PLAN**



# **LOCUS PLAN**



# Werth Residence

10 Cardinal Drive, Westwood, MA

01/13/17 BID SET

# **DRAWING LIST**

#### Project Information

Title Sheet Specifications

#### Demolition

Existing Floor Plans Roof Demolition

#### Architecture

Proposed Attic Floor Plan Attic Bedroom Detail Floor Plan

Toilet Room Details Building Section

Stair Sections

Partition Schedule and Finish Plan Mindow and Door Schedules

A-9 Proposed Mechanical Above Attic Space

#### Structural

5-1.0 Structural Notes

Second Floor Framing Plan

Attic Framing Plan 5-3.0

5-4.0 Roof Framing Plan

S-5.0 Roof Framing Plan

#### Mechanical

2nd Floor & Attic Mechanical Demo Plans

Basement & 1st Floor New Mork Mechanical Plans

2nd, 3rd & Attic New Mork Mechanical Plans

#### Electrical

Electrical Legend, Notes and Plans

Electrical Parts Plan E-2

#### **OWNER/CLIENT**

## Stephen & Robbie Werth

10 Cardinal Drive, Westwood, MA

#### **ARCHITECT**



Danvers, MA 01923 | gienappdesign.com

## **STRUCTURAL**

# TLH Consulting

505 Middlesex Turnpike, Unit 14 Billerica, MA 01821 T: (978) 362-1804

#### MECHANICAL/PLUMBING

#### JRW Engineering

40 Town Farm Road Brookfield MA 01506 T: (978) 857-0305

#### **ELECTRICAL**

# Nangle Engineering Inc.

32 Prince Street Danvers, MA 01923 T: (978) 777-7650

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#### 00 00 00 GENERAL CONDITIONS

- A. Only the highest quality of workmanship shall be considered acceptable and shall be firmly secured and relative to elevations and dimensions as shown in the drawings; true to plumb, level, square, and line.
- B. All work shall conform with all applicable codes and ordinances and with accepted local standards
- C. Individual prints or partial sets of prints shall be considered part of the whole set of these drawings and specifications for this project. The recipient of individual prints or partial sets shall be responsible for information and intent not represented on the individual sheets or partial sets but found elsewhere in these drawings and specifications.
- D. The General Contractor shall be responsible for coordinating all aspects of the Work and shall inform the Owner of his work schedule and any anticipated changes that may occur in it. Place orders for all materials included in the Work by General Contractor or Subcontractors in time to prevent any delays in the Construction schedule or completion of the Work, unless otherwise noted.
- The General Contractor shall not proceed with any work which he believes to be contrary to his knowledge of good construction standards and practices and shall not use any substandard materials.
- The General Contractor shall be expected to inspect the site for conditions affecting work and for anticipating the effects of those conditions upon his work.
- G. Minor details not usually shown or specified but necessary for the proper installation or conformance with codes or standards listed herein shall be included in the work.
- H. All work and material or equipment shall be guaranteed for a minimum of one year from date of substantial completion. This includes work by Subcontractors.
- Items noted "Not In Contract", "N.I.C.", "By [Separate] Vendor", "By [Separate] Contractor", or "By Owner" are to be neither furnished nor installed under this contract unless noted otherwise, but are shown for informational purposes only. It is the responsibility of the Contractor to coordinate with separate vendors and contractors to complete the work of this project.
- The General Contractor will report any and all discrepancies or omissions found in the Drawings and Specifications to Architect/Designer. The Work affected shall not proceed until any clarification or revision has been completed or permission to continue.
- The Contract Documents represent the finished structure and do not indicate the methods of construction. The General Contractor shall supervise and direct the Work and shall be solely responsible for construction means, methods, techniques, sequences, and procedures.
- Each trade shall coordinate its work as is practical and will interfere as little as possible with the work of other trades and persons. It will be assumed that each trade has accepted the quality of the work of others upon which his work must be applied.
- M. During progress of Work maintain premises free of unnecessary accumulation of tools, equipment, surplus materials, and debris. Each Subcontractor shall be responsible for cleaning up after their respective work, as well as maintaining a clean and orderly site.
- N. Store and handle materials and equipment so as to prevent damage affecting appearances, performance of material, equipment or finished work. In the event of damage, promptly make repairs or replacements and be responsible for costs incurred and time required for repairs or replacements at no additional cost to the Owner.
- O. All subcontractors shall remove and redo defective work as determined by the General Contractor or the Designer at no additional cost to the General Contractor or Owner.
- P. There is no designated storage space on site. The Contractor may use the work area for storage. Q. Sound isolation is a major concern of the space. Stagger electrical boxes in partitions. If possible
- locate electrical boxes in separate stud cavities. Provide firestopping at any floor or partition penetrations.
- For all items, provide shop drawings and product data for approval from Architect prior to ordering materials.

#### **00 10 00 INSURANCE REQUIREMENTS**

- A. The Contractor shall provide a complete insurance package including:
  - \$1,000,000 Worker's Compensation
  - Commercial General Liability \$2,000,000
  - Builder's Risk \$1,000,000
  - Excess Umbrella Liability \$2,000,000

#### 01 10 00 WORK RESTRICTIONS

- A. On-site work may occur between 8am to 9pm Monday through Friday and on weekends.
- B. Existing exterior windows may not be removed for demolition or transport of material.
- C. When moving materials or equipment through common areas, the Contractor is responsible for protecting those areas from damage including providing carpet protection and wall protection.
- D. For access to the house, the Contractor must coordinate with the Owner for keys or access while the Owner is at the property only.
- It is the responsibility of the Contractor to coordinate with the Owner for dumpster locations.

#### 01 10 00 DIMENSIONS, MEASUREMENTS, AND LAYOUT

- A. Dimensions shall take precedence over graphic representations. Scaling of the drawings for dimensions or locations of materials or equipment is considered unacceptable.
- B. Larger scale drawings take precedence over smaller scale drawings.
- Notes and details on Drawings shall take precedence over these General Notes and Typical Details. Written Specifications take precedence over graphic representation of materials and items as well as their locations.
- D. All dimensions to finish materials unless noted otherwise.
- Dimensions to side or center of doors or windows are to finish openings unless noted otherwise. The General Contractor shall be responsible for locating and laying out the Work (including elevations). The General Contractor will exercise proper precaution to verify figures shown on the Drawings while laying out the Work, and be responsible for all errors resulting from failure to exercise such precaution.

#### 01 50 00 TEMPORARY FACILITIES AND CONTROLS

- A. The following conditions are responsibilities of the Contractor:
- a. Temporary Electrical:
  - The existing power source in the building, may be utilized by the Contractor at no charge.
  - Provide adequate lighting to facilitate the work.
- b. Temporary Heating:
- This project involves removing existing roofing during the winter months. The Contractor is responsible for keeping the project weather-tight and providing heating to maintain a temperature of no less than 68 degrees in these exposed areas of the house.
- c. Temporary Toilets
  - Contractor and workers are not allowed to use the residence is bathrooms. Contractor must provide a temporary toilet (ie Port-o-potty).

#### **02 41 00 DEMOLITION**

- A. Remove all old and abandoned materials. Cap all unused pipes.
- B. Do not allow demolished materials to accumulate on-site.
- C. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- D. Transport demolished materials off Owner's property and legally dispose of them.
- Removed and reinstalled items: protect items from damage during transport and storage. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.
- Coordinate with Owner and utilities to arrange utility shut offs.
- G. Provide temporary barricades and other protection required to prevent injury to people and limit damage to adjacent existing elements.

#### 06 10 00 ROUGH CARPENTRY

- A. Provide minimum 3/4" plywood blocking at all wall mounted fixtures and cabinets per industry standard, manufacturer's instruction, and as shown unless otherwise instructed for installation.
- B. Provide plywood substrate on floor joists at flooring locations.

#### 06 20 00 FINISH CARPENTRY

- A. Install all finish carpentry per the highest standards of craftsmanship, ready for finishes as specified.
- B. Interior Trim
- a. Grade: I, plain sliced Maple (Acer Saccharinim) for solid lumber and AA, rotary sliced Maple for veneer
- b. Filler: No paste wood filler
- c. Finish: three (3) coats urethane and stain as required to match factory finish doors.

#### C. Exterior Trim

• Material Basis of Design: Azek, primed for field paint unless pre-finished is available that matches existing trim.

#### 06 41 00 WOOD CASEWORK - CABINETS/CLOSETS

- A. The General Contractor is responsible for finishing and installing cabinets and built-in shelving/storage and all other cabinets not specifically identified as by a separate vendor or contractor.
  - a. Owner to select bathroom base cabinet and medicine cabinets.
- b. Bathroom Sink Counter and Backsplash: Granite. Selected by Owner.

#### 07 21 00 THERMAL INSULATION

- - a. The roof requires a minimum rating of R-49.
  - b. The attic walls require a minimum of R-13.
  - c. Roof insulation is to be closed cell spray foam insulation equal to an R-value of R49. Closed cell spray foam is typically R6.5 per inch. To get an R-value of R49, provide 7-1/2"
  - d. Insulation at interior walls between bedrooms and around bathroom walls is to be noise canceling, unfaced, fiberglass batt insulation: QuietZone with PureFiber Technology by Ownes Corning.

#### 07 30 00 ROOFING ASPHALT SHINGLES

- A. The asphalt shingles are to match the existing shingles on the rest of the house.
  - 1. Basis-fo-Design: CertainTeed, XT Extra Tough 25 Traditional Shingles

#### 07 46 46 FIBER-CEMENT SIDING

- A. The clapboard siding is to match the existing on the rest of the house.
  - 1. Basis-fo-Design: HardiePlank Lap Siding, Cedarmill with ColorPlus Technology. Painting may be required to match the existing house siding.

#### 07 61 00 METAL FLASHING

A. The flashing is to match the existing material used. It appears that the existing flashing is aluminum. V.I.F.

#### **07 92 00 SEALANTS**

- A. Typical Interior Sealant:
  - 1. Latex Joint Sealant: Acrylic latex or siliconized acrylic latex, ASTM C 834, Type OP, Grade
  - 2. Pecora Corporation; AC-20+ or Architect approved equal.
- B. Acoustical Sealant
  - Manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C 834. Product effectively reduces airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E90.
  - 2. Pecora Corporation; AIS-919 or Architect approved equal.
  - 3. For sealing interior joints at countertops, vanities, tubs, plumbing fixtures, and other locations subject to moisture use Mildew-Resistant, Single-Component, Nonsag, Neutral-Curing Silicone Joint Sealant: ASTM C 920, Type S, Grade NS, Class 25, for Use NT.

#### 08 00 00 GENERAL DOORS AND HARDWARE

- A. Provide proper rough openings for all doors.
- B. Provide and install all doors and hardware and their accessories as shown and according to the manufacturer's recommendations for complete and proper installation.

#### 08 14 33 WOOD DOORS & WINDOWS

- A. Windows: Basis-of-Design: Marvin Aluminum Clad Wood Window
- B. Doors: Veneer faced stile and rail wood door with painted finish
- 1. Performance Grade: Heavy duty
- 2. Grade: Premium, with Grade AA faces
- 3. Species: Maple
- 4. Cut: Plain sliced
- 5. Finish: Exterior: to match existing interior: prime for paint
- 6. Core: solid-core doors: either glued wood stave or structural composite lumber

#### 08 71 00 FINISH HARDWARE

- A. Provide special wrenches and tools applicable to each different or special hardware component. Provide maintenance tools and accessories supplied by hardware component manufacturer.
- B. Lever style to be selected by architect. It is the intent to match exisiting style and finish.
- C. Equal products by other manufacturers are acceptable with prior approval by the Architect.
- D. A hardware schedule is located on drawing A-8

#### **09 29 00 GYPSUM WALL BOARD ASSEMBLIES**

- A. Provide Gypsum Wall Board Assemblies: Interior partitions and ceilings for tape and joint compound finish.
- B. Gypsum Wall Board: ASTM C 1396, tapered edges
  - 1. Typical Condition: 5/8" core
  - 2. At wet locations (i.e. Toilet Room): Moisture-Resistant Gypsum Board, 5/8" core, Type X
  - 3. At tile installation locations: cement board
- C. Insulation within Gypsum Wall Board Assemblies: See 07 21 00.
- D. Trim Accessories:
  - 1. Material: Metal or plastic
  - 2. Types: Cornerbead, edge trim, and control joints
- E. Studs and Runners: Wood
  - 1. Minimum Base Thickness:
  - 2. Depth: As indicated on drawings.
- F. Slip-Type Head Joints: Where indicated, provide the following:
  - 1. Single Long-Leg Runner System: Top runner with 2" deep flanges in thickness not less than indicated for studs.

#### **09 30 13 TILE FLOORING**

- A. The tile flooring is indicated as "T1" and "T2" on the drawings.
- B. Basis-of-design:
- 1. (T1): Basis of Design: Dal-tile finish to be selected by Architect.
- 2. (T2): Basis of Design: Dal-tile finish to be selected by Architect.
- C. Grout Material: Non-sanded
- D. Grout color: Architect will select color

#### 09 50 00 CEILINGS

- A. It is the intent to provide a gypboard ceiling with a smooth, white finish.
- B. The ceiling types are as follows:

Type A: Gypsum Wall Board Ceiling, see 09 29 00 Gypsum Wall Board Assemblies

#### 09 64 00 WOOD FLOORING

- A. Prior to new flooring installation, prep level sub-floor.
  - 1. Level depressed spots with a levelastic floor compound and allow to fully cure prior to flooring
  - 2. If applicable, grind high spots.

- 09 68 00 CARPET A. Carpet is indicated as "CP" on the drawings and is only used for a runner at the new stair.
- (continuous on thread and riser).
- B. Basis-of-design: Shaw Floors: Luxury at Best C. Color: 00101 Soft Fleece or Architect approved equal.
- D. Type: Cut-Pile

#### **09 90 00 PAINTING**

- A. Provide painting and surface preparation for all new and existing partitions in the work area unless
  - a. Walls on lower levels affected by this work shall be painted in entirety from room corner to
- B. See 06 20 00 Finish Carpentry and 06 41 00 Wood Casework for millwork and wood trim finish.
- C. Basis of design: Benjamin Moore D. Colors: Assume up to 6 colors will be used identified as P1-P6 and one ceiling color, one trim color and exterior paint color for the siding if Hardie does not have a color to match existing house.

# a. Where existing walls are being repainted, match existing color.

- **10 28 00 TOILET ACCESSORIES** A. The General Contractor is responsible for furnishing and installing all toilet accessories.
- B. Toilet Paper Dispenser (TP): Residential Essentials Bradford Polished Chrome Surface Mount Toilet Paper Holder (Polished Chrome)
- C. Mirror (MR):
- D. Coat Hook (CH): Selected by Owner (Provide blocking in wall cavity where indicated) E. Towel Rod:

For MEP/FP information, see to MEP/FP drawings. For Electrical information, see to Electrical drawings.



**ARCHITECTURE** 

Danvers, MA 01923 978.750.9062 gienappdesign.com

20 Conant Street

Residence

enovation

Westwood,

Drive,

Cardinal

0

Date

© 2017 Gienapp Design Associates, LLC TO CONSTRUCT A SINGLE PROJECT ON THE SITE SO INDICATED. USE OF THE WORK AND ANY DERIVITIVE CONSTRUCTION OR PERMIT APPLICATION IS STRICT PROHIBITED WITHOUT PRIOR WRITTEN PERMISSION RCHITECT WHOSE SIGNATURE AND SEAL MAY BE FFIXED TO THESE DRAWINGS.

Project: 622.1 Drawn by: JB

Revisions

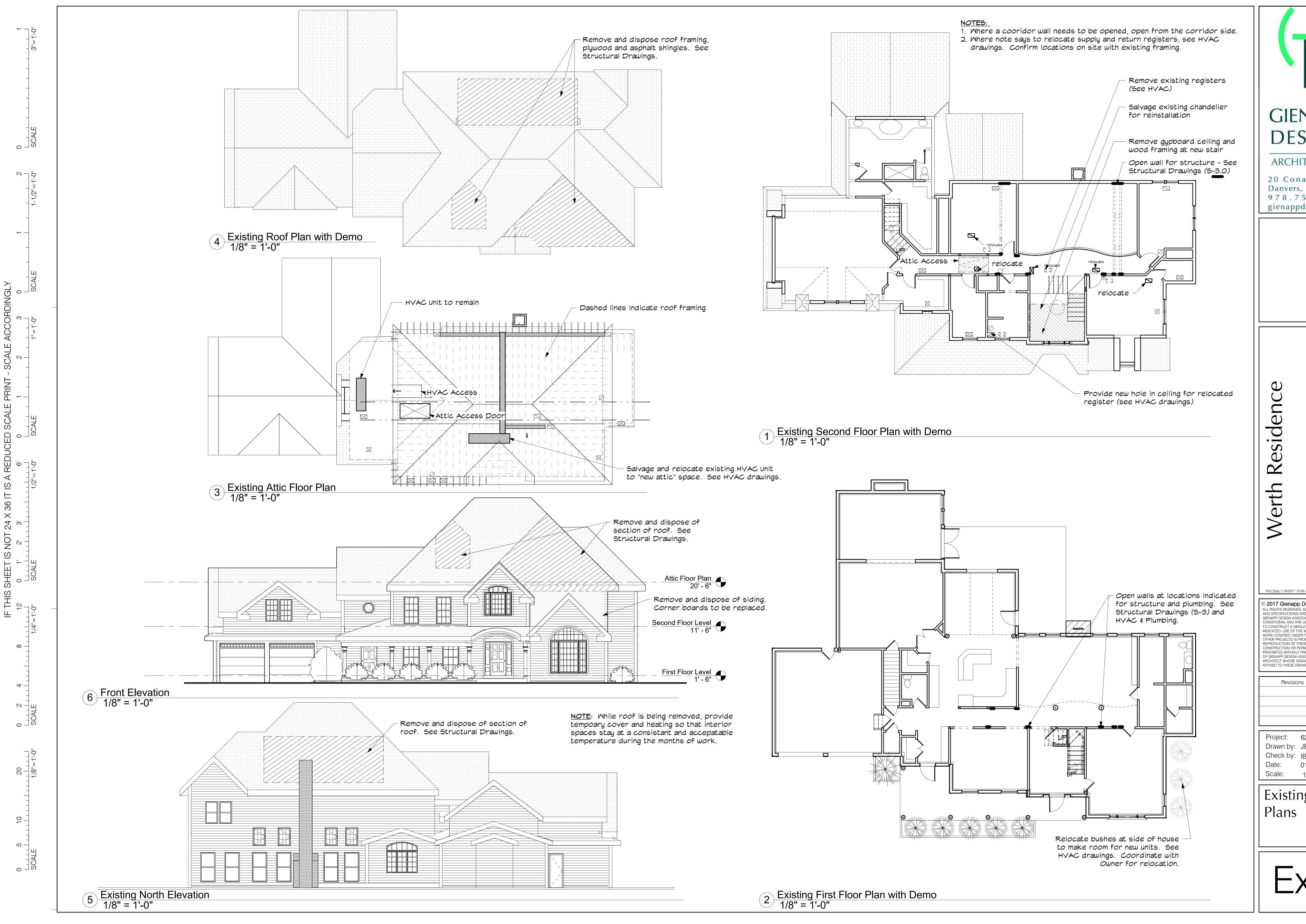
Check by: IB

Date:

Scale:

Specifications

01/13/17



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**GIENAPP** DESIGN

**ARCHITECTURE** 

20 Conant Street Danvers, MA 01923 978.750.9062 gienappdesign.com

Residence

Westwood, MA

Renovation

10 Cardinal Drive,

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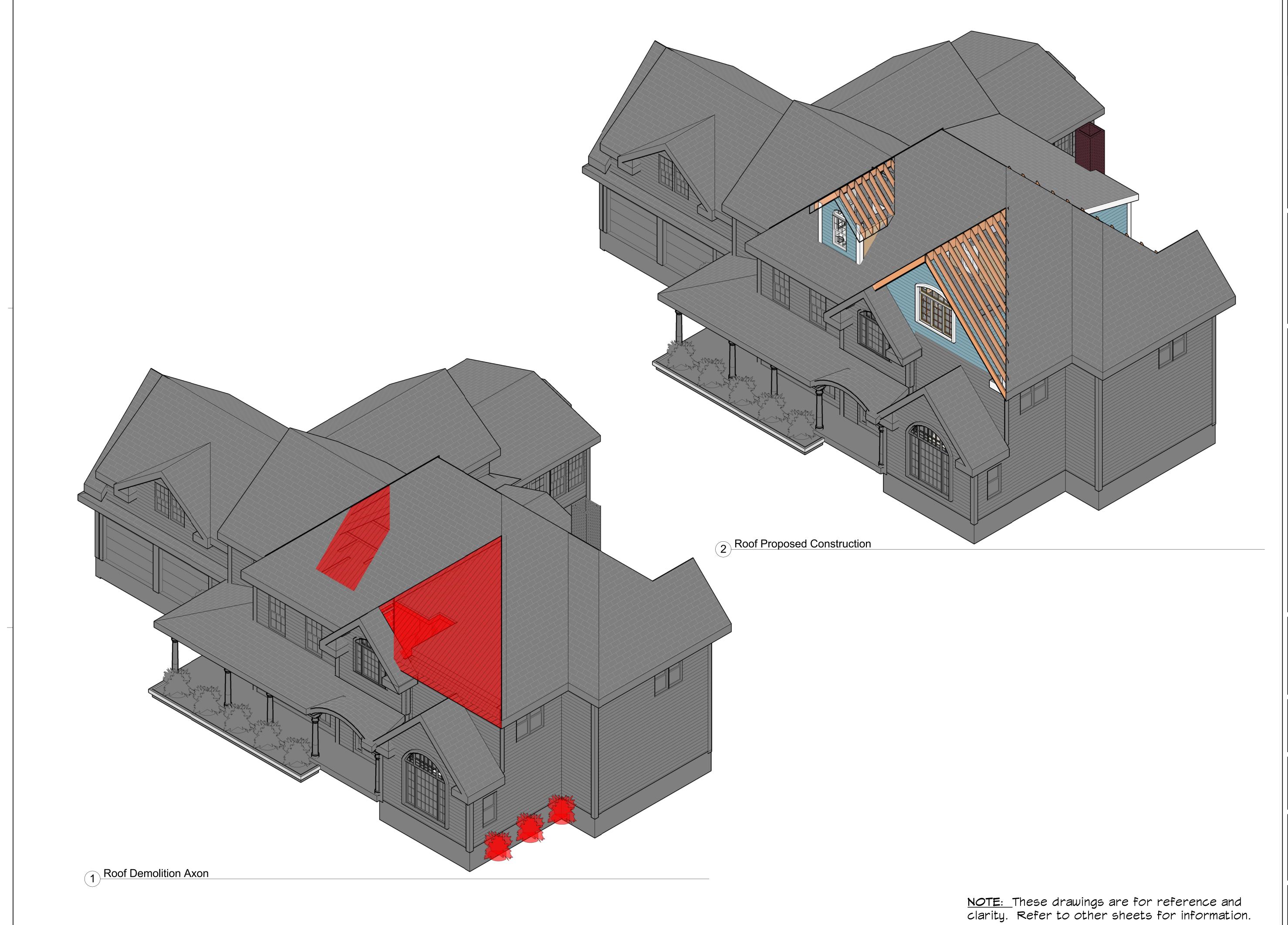
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**Existing Floor** Plans



12 0 1' 2' 3' 17 IS SCALE | SCALE | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |

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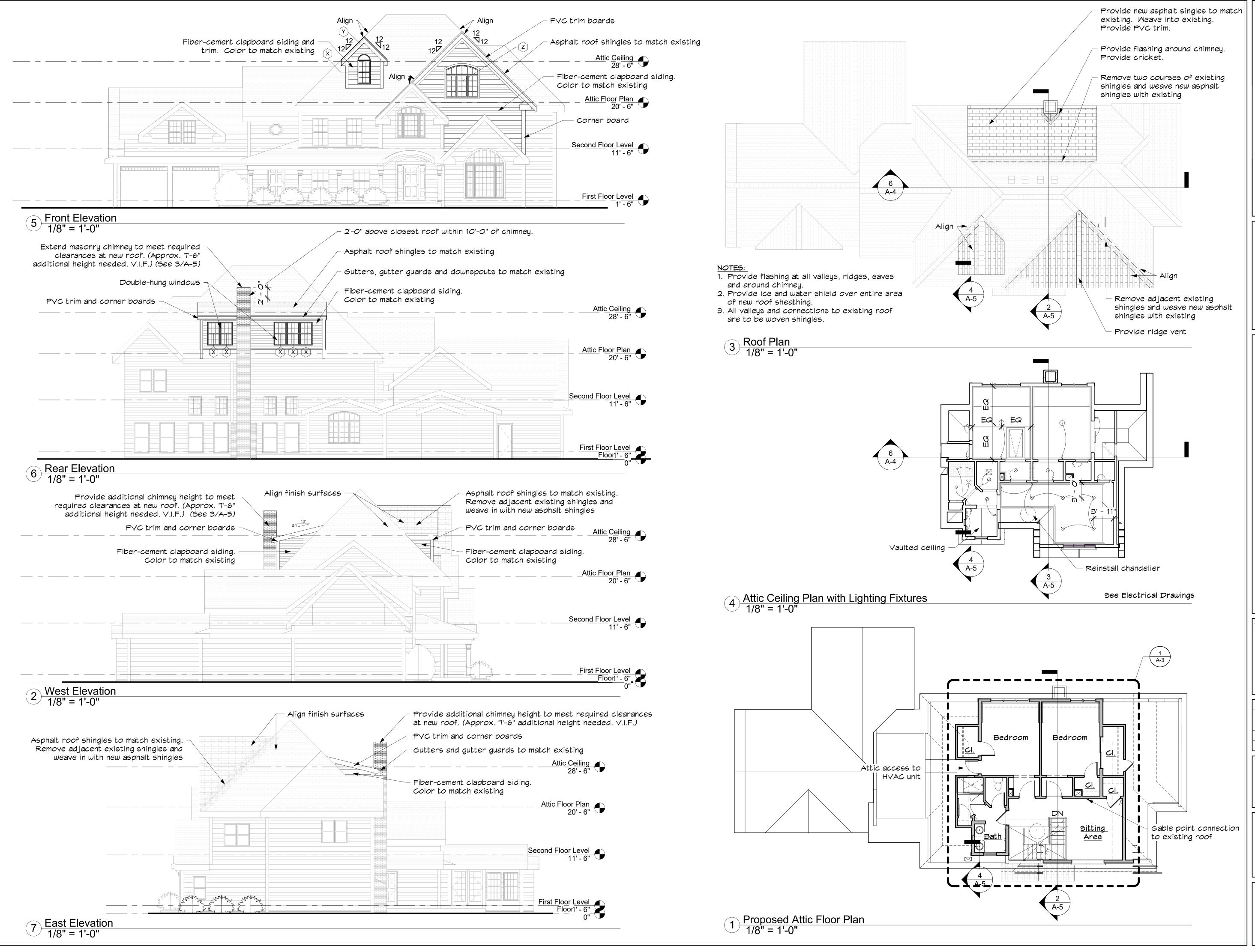
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Roof Demolition



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Plot Date:1/16/2017 10:05:20 A

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Revisions Date

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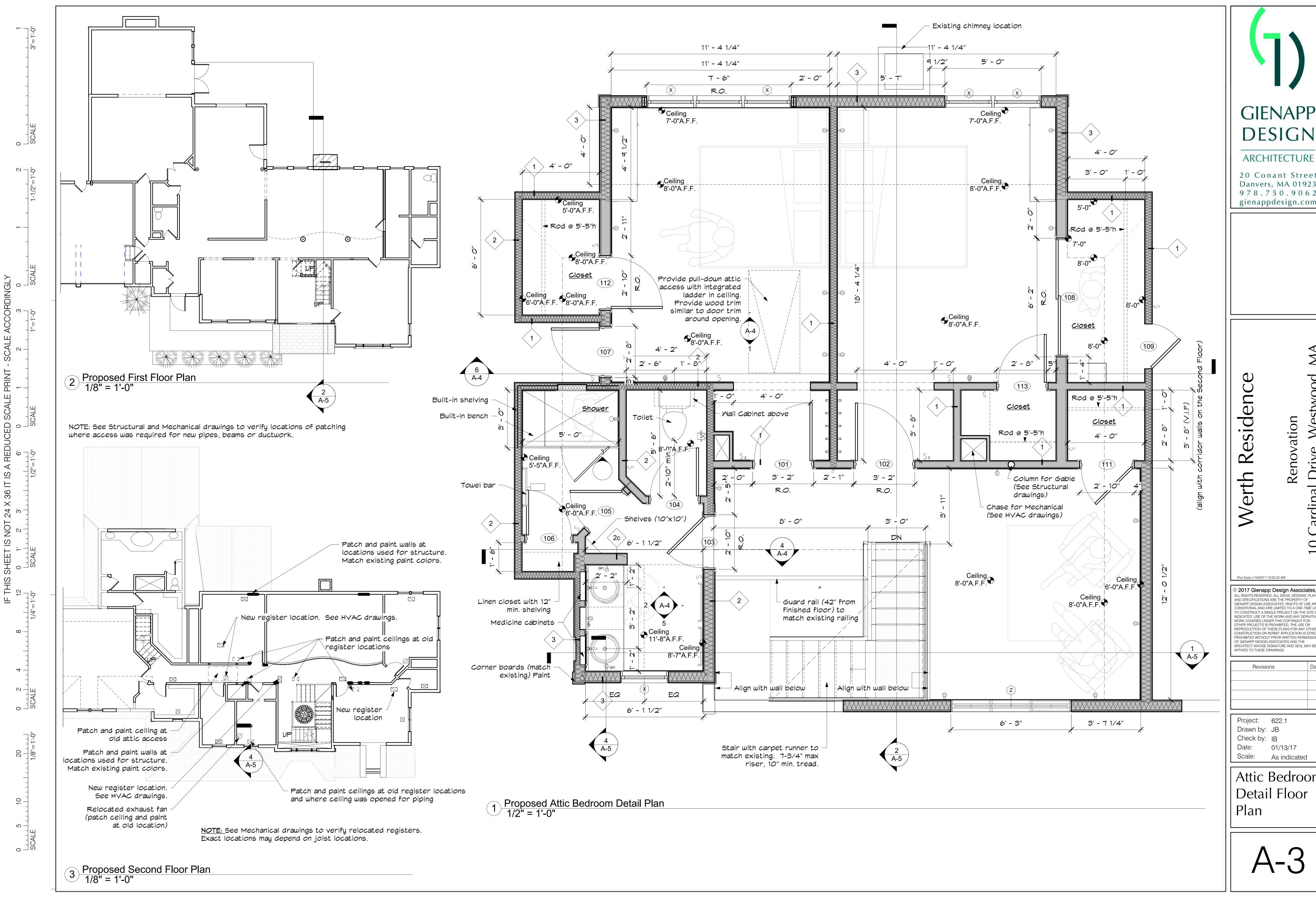
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Scale: 1/8" = 1'-0"

Proposed Attic Floor Plan

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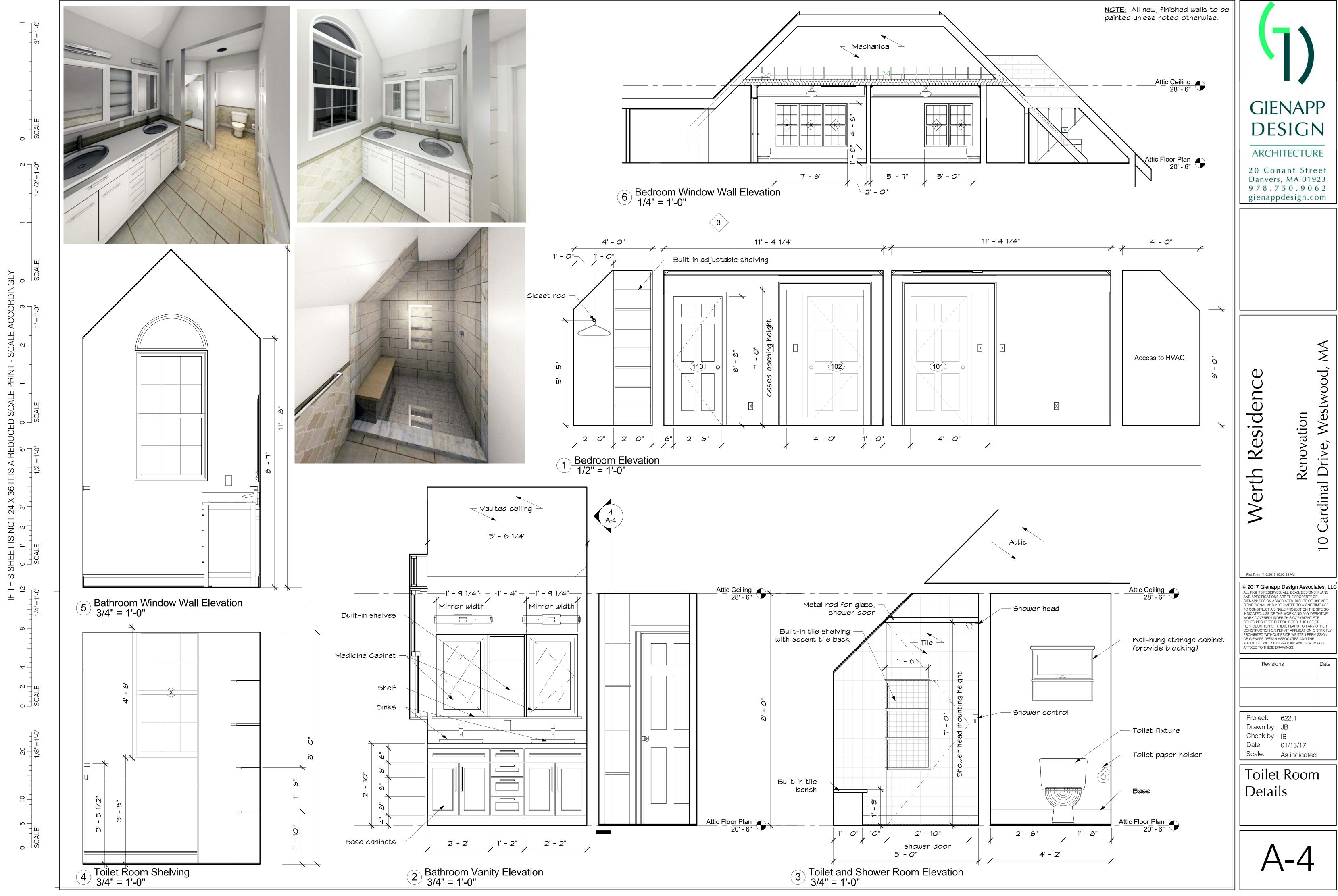
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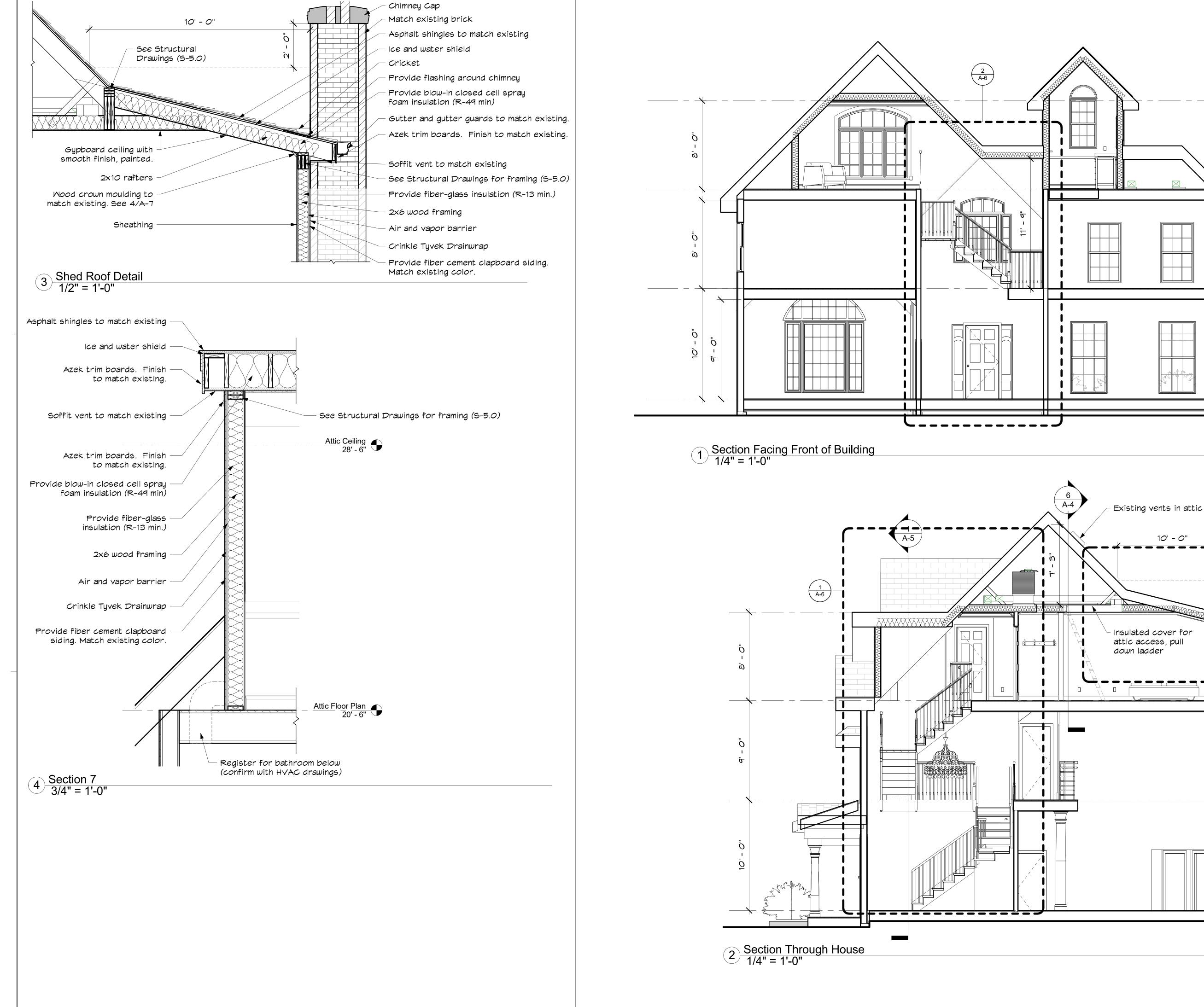
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Attic Bedroom Detail Floor Plan



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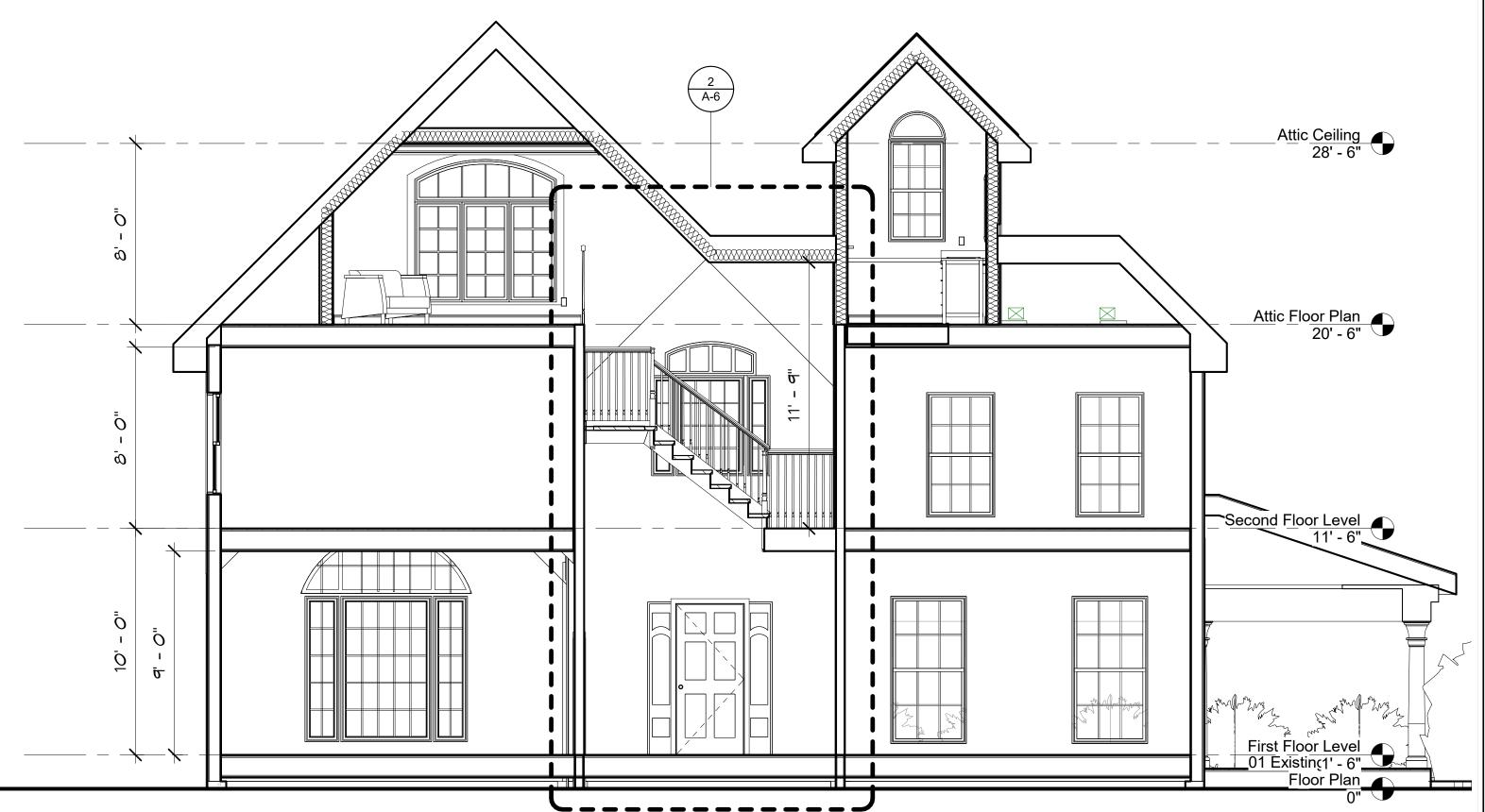
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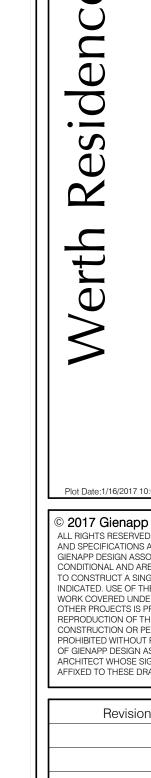
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Attic Ceiling 28' - 6"

Attic Floor Plan 20' - 6"

Second Floor Level

First Floor Level

10' - 0"

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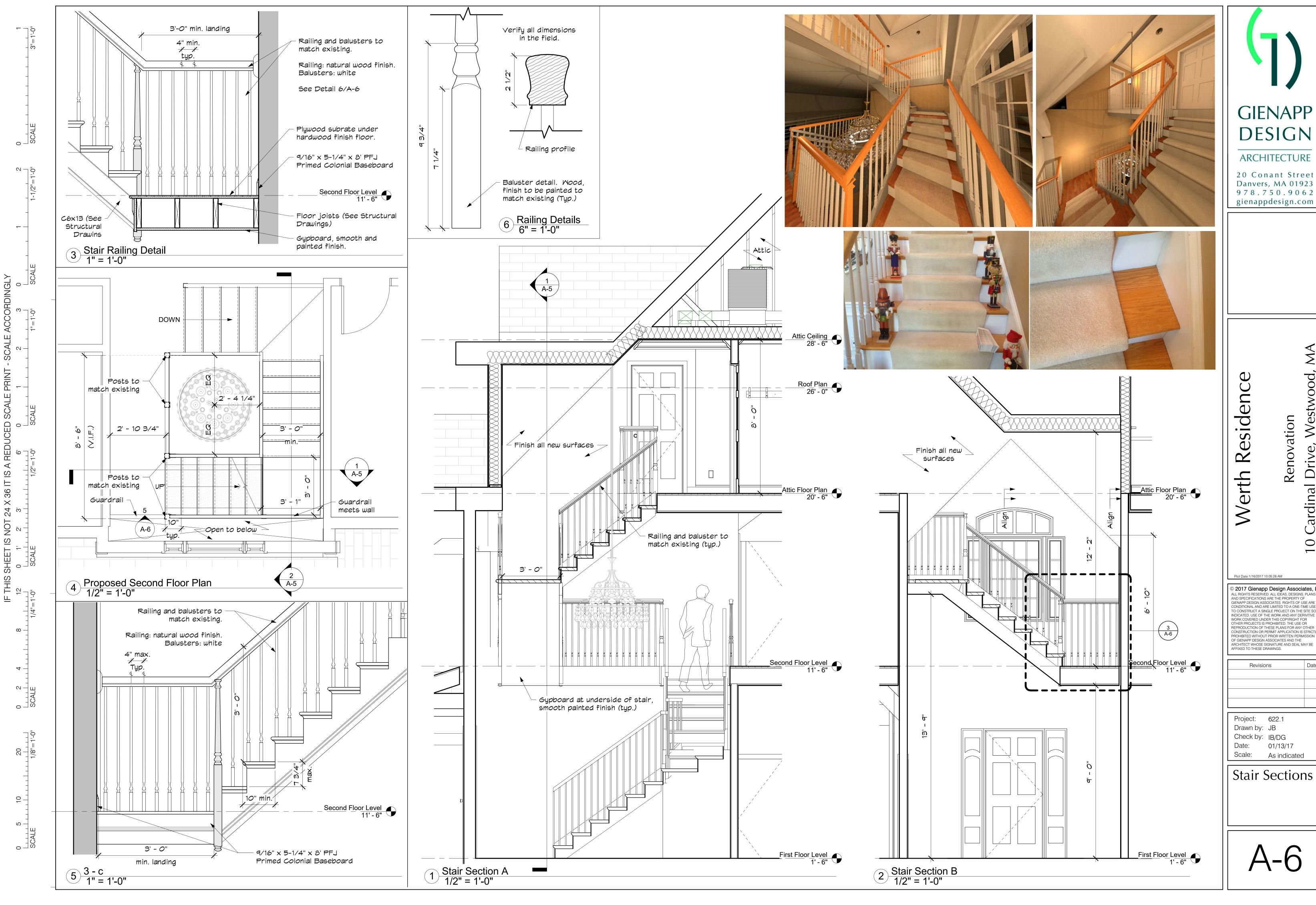
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Building Section



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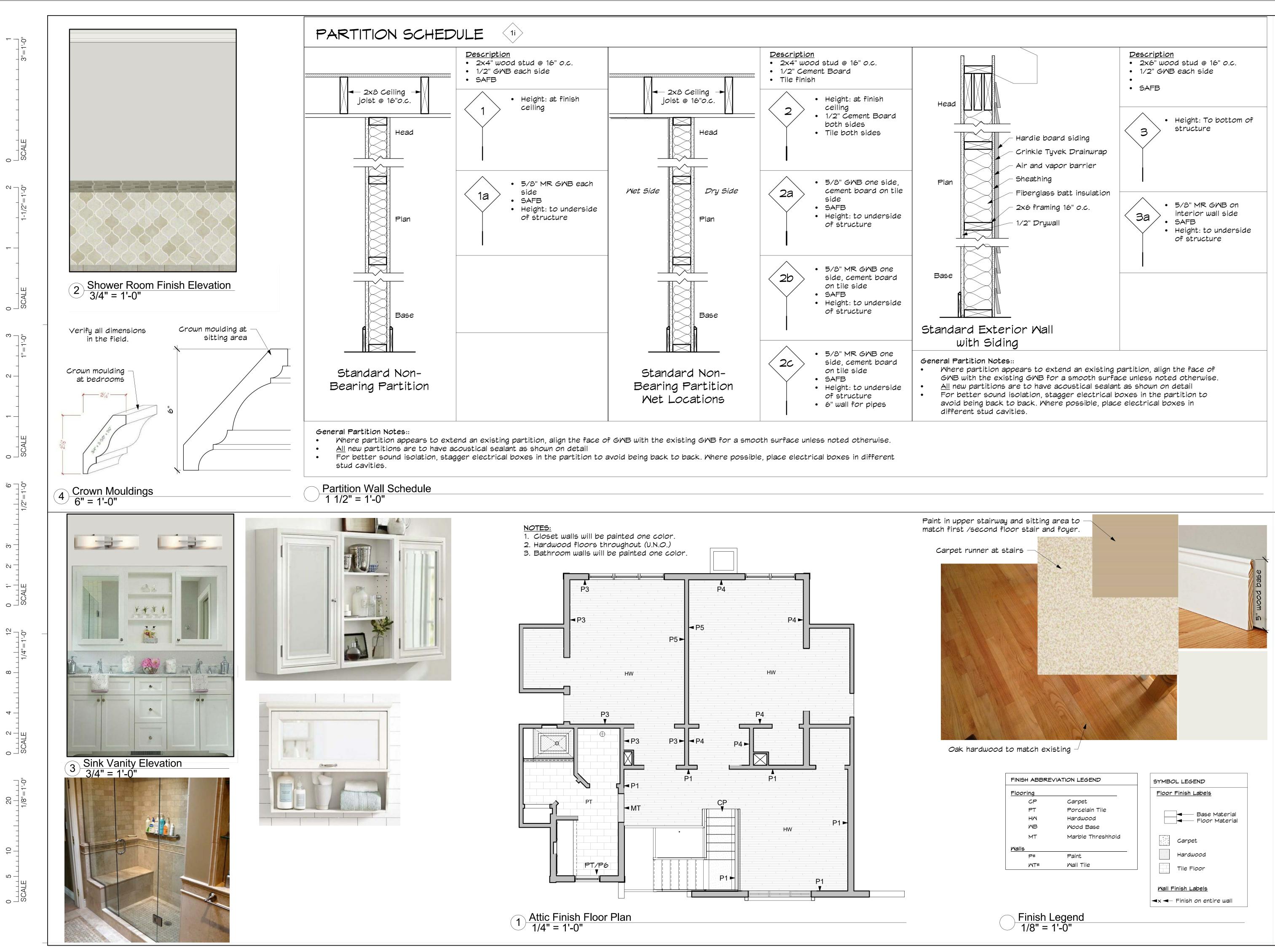
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Stair Sections



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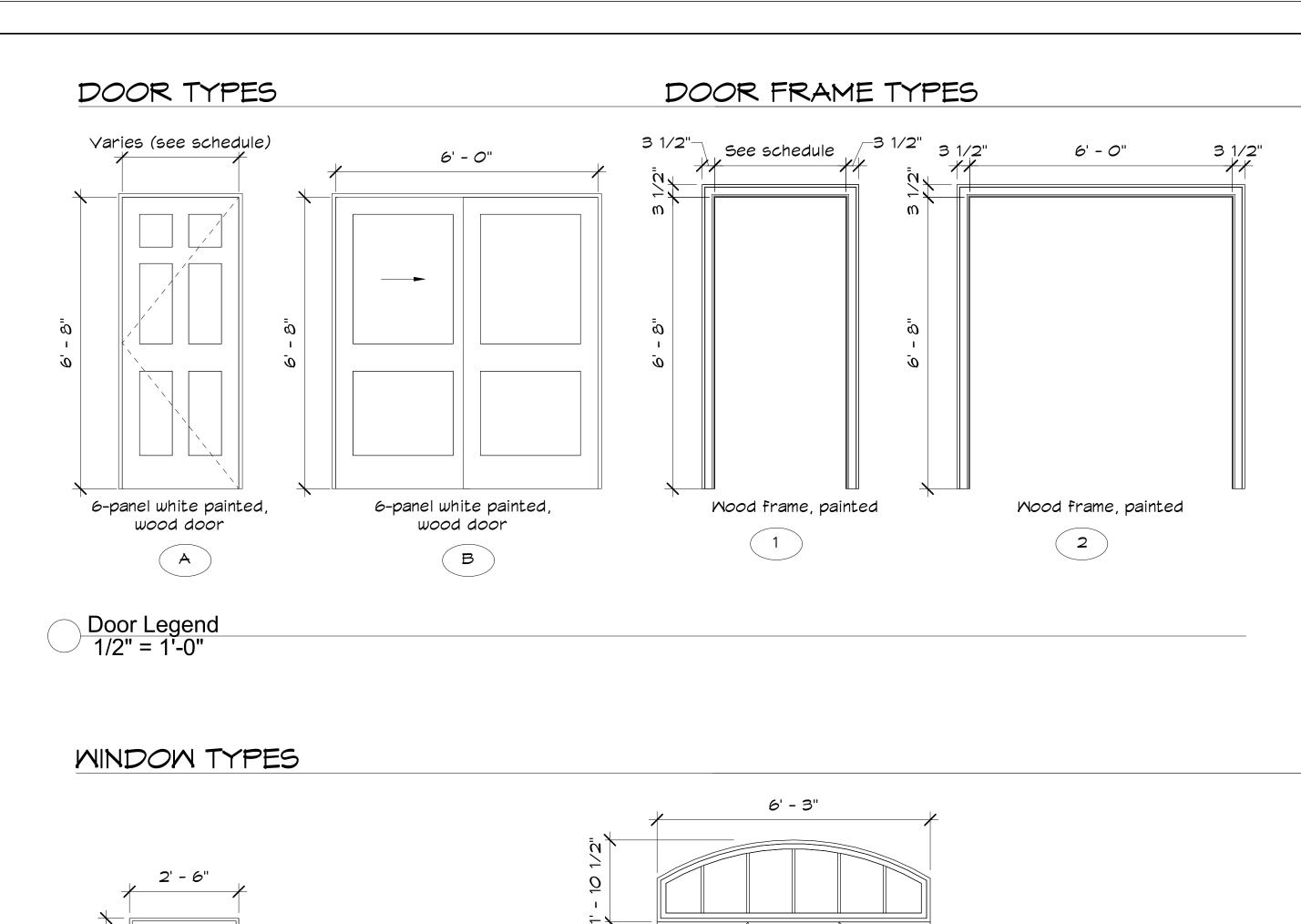
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**Partition** Schedule and Finish Plan



Casement with fixed middle

window and transom

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Double-hung window



Door Size

6'-8" 3'-0" ND

New Construction

104

108

Door

6'-8" 2'-8" ND PTD ND PTD

6' - 8" 2' - 6" ND PTD ND PTD

No. | Door Type | Height | Midth | Mat. | Finish | Mat. | Finish | Head | Jamb | Thresh |

Frame

MD PTD

Door Schedule

Details

Hardware Set Function

Bedroom Lockset Privacy

Bedroom Lockset Privacy Bathroom Lockset

> Bathroom Lockset Bathroom Lockset Closet/No lock

> > Attic Access

Closet/Sliding Door

Attic Access

Closet/No lock

Closet/No lock

Closet/No lock

Notes

Provide weather stripping

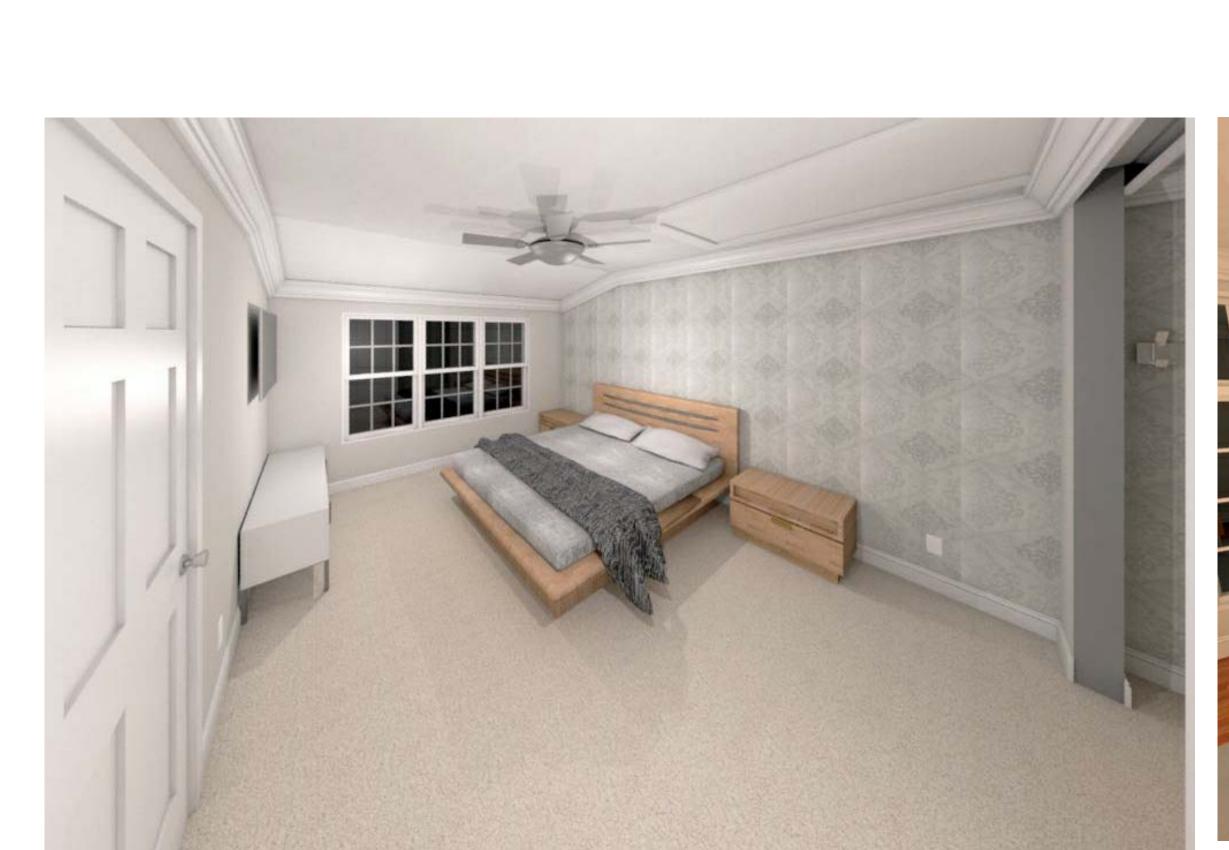
Provide weather stripping

31/2" T

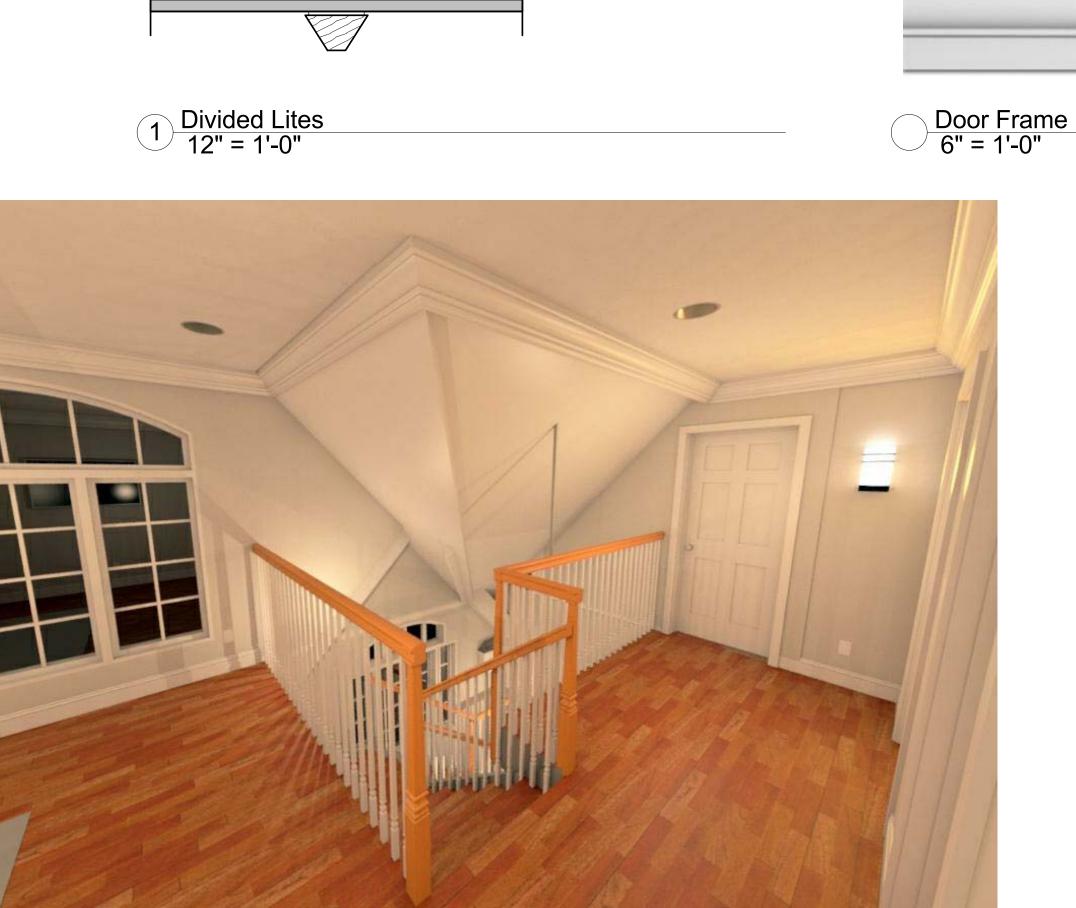
-3/4" W —







Transom above window



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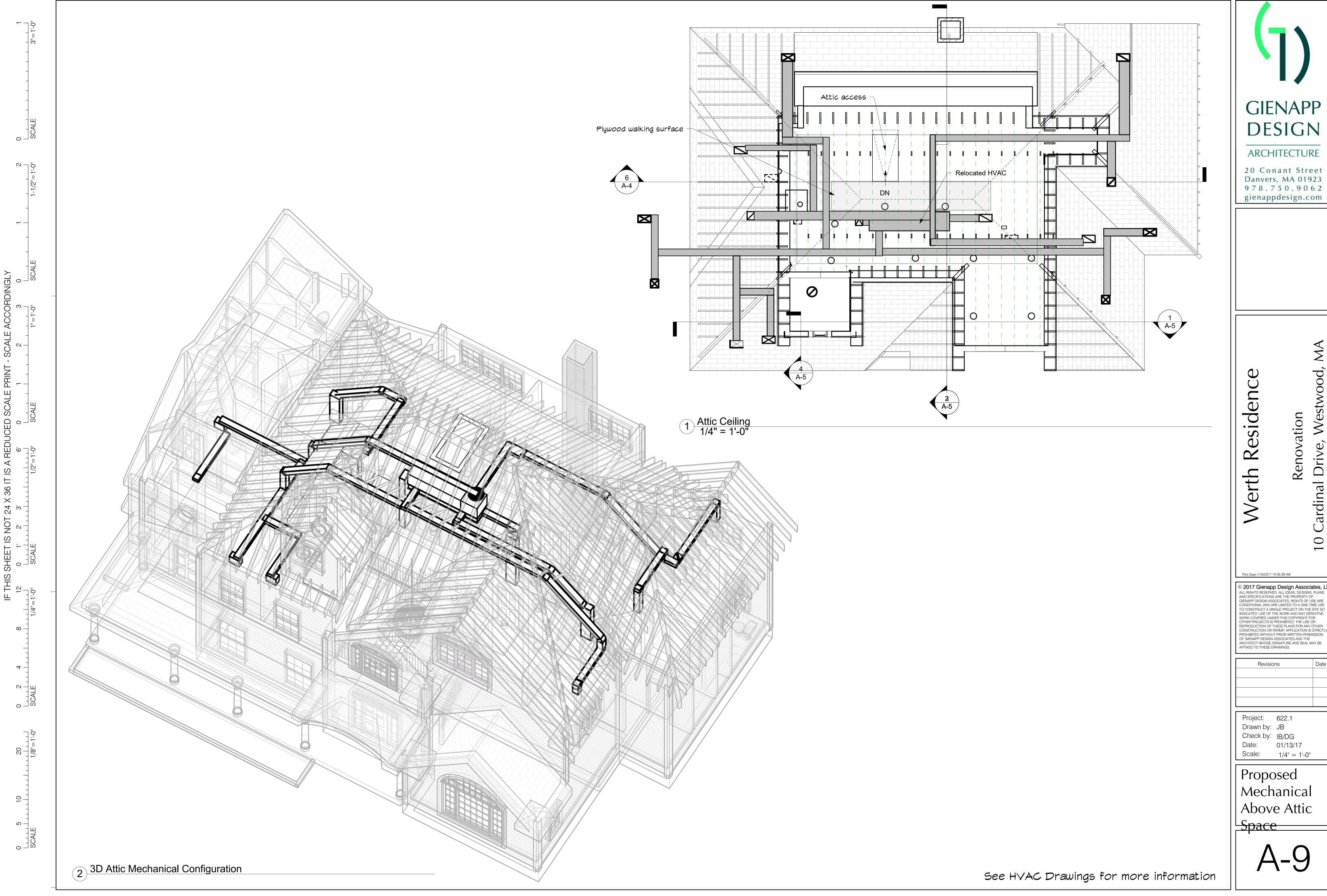
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Window and Door Schedules



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Proposed Mechanical Above Attic

2. LIVE LOADS: RESIDENTIAL SLEEPING ROOMS RESIDENTIAL OTHER THAN SLEEPING ROOMS

DEAD LOADS: WEIGHT OF MATERIALS 3 PSF M/E/P PLUS MISC

4. SNOW LOADS: BASIC GROUND SNOW, Pg FLAT ROOF SNOW, Pf 30.8 PSF

DRIFT AS APPLICABLE PER CODE

WIND LOAD: BASIC WIND SPEED **BUILDING CATEGORY** EXPOSURE

WOOD MEMBERS SHALL BE AS PER THE DRAWINGS. MEMBERS OF EQUIVALENT STRENGTH AND STIFFNESS MAY BE SUBSTITUTED IF PERMITTED BY THE ARCHITECT/ENGINEER. USE SPRUCE PINE FIR No. 2 AS A MINIMUM, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.

WALLS (UNLESS NOTED OTHERWISE) INTERIOR BEARING WALL EXTERIOR WALL INTERIOR PARTITION WALL

INTERIOR POST IN WALL

2x6 @ 16" O.C. SPF. NO.2 2x6 @ 16" O.C. SPF. NO.2 2x4 @ 16" O.C. SPF. NO.2 4x4 OR 6x6 SPF. NO.2, UNLESS NOTED OTHERWISE

30 PSF

40 PSF 40 PSF

PLYWOOD AND OTHER SIMILAR SHEATHING MATERIALS SHALL BE AS PER THE DRAWINGS. APA RATED MATERIALS SHALL BE USED. THE STRONG AXIS OF SHEATHING MATERIALS SHALL RUN PERPENDICULAR TO THE JOIST AND WALL MEMBERS.

EXTERIOR PLYWOOD SHEATHING SHALL BE A MINIMUM IF 1/2 APA RATED, EXPOSURE 1 SHEATHING NAILED TO THE WALL FRAMING W/ 8d NAILS AT 6 INCH CENTERS AT PANEL EDGES AND 12 INCH CENTERS AT INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. SEE SECTION R602.10.8 FOR PANEL JOINTS AT BRACED WALL FLOOR PLYWOOD SHEATHING SHALL BE A MINIMUM OF 3/4" PLYWOOD NAILED TO THE FLOOR FRAMING W/ 8d

NAILS AT 6 INCH CENTERS AT PANEL EDGES AND 12 INCH CENTERS AT INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. USE 5/8" APA RATED EXPOSURE 1 ROOF SHEATHING. SHEATHING TO BE FASTENED TO FRAMING WITH 8d NAILS

SPACED AT 6" O.C. AT SHEATHING PANELS EDGES AND 12" O.C. AT INTERMEDIATE SHEATHING FRAMING SUPPORTS. FASTEN SHEATHING TO LEDGERS AND SHEAR WALLS FRAMING WITH 8d NAILS AT 4" O.C. HANGERS, CLIPS, ETC SHALL BE AS PER THE DRAWINGS. CONTRACTOR TO BRING ANY UNIDENTIFIED HANGERS, ETC TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION.

ALL ENGINEERED LUMBER SHALL BE AS PER THE DRAWINGS. ALL LSL MEMBERS SHALL HAVE A MINIMUM YOUNG'S MODULUS (E) OF 1,550,000 PSI; ALL LVL'S SHALL HAVE A MINIMUM MODULUS (E) OF 2,000,000 PSI; ALL PSL'S SHALL HAVE A MINIMUM YOUNG'S MODULUS (E) OF 2,000,000 PSI. ENGINEERED LUMBER MUST HAVE THE IDENTIFICATION MARKINGS LEFT ON FOR FIELD VERIFICATION PURPOSES.

9. ALL ENGINEERED LUMBER SHOWN ON THE DRAWINGS ARE STANDARD SIZE DEPTH AND THICKNESS. IF SIZES SHOWN ON THE DRAWINGS APPEAR TO REQUIRE MODIFICATION TO ACQUIRE THE DEPTH AND/OR THICKNESS SHOWN ON THE DRAWINGS CONTACT THE ENGINEER FOR CLARIFICATION. 10. USE ENGINEERED LUMBER MANUFACTURERS GUIDELINES FOR MEMBER WEB OR FLANGE PENETRATIONS, MAXIMUM ALLOWED NOTCHES, BRIDGING REQUIREMENTS, INTERIOR AND EXTERIOR BEARING

CONTACT THE ENGINEER REGARDING ALL DIMENSIONAL LUMBER PENETRATIONS, NOTCHES, ETC.

ALL TIMBER POST TO BEAM CONNECTIONS TO RECEIVE SIMPSON TP311 PLATES ON EACH SIDE U.N.O. HEADERS SHALL HAVE A MINIMUM OF (2) JACK STUDS UNLESS OTHERWISE NOTED. BUILT-UP LVL BEAMS SHALL BE FASTENED TOGETHER AS FOLLOWS:

(2)-PLY LVL - (2) ROWS OF 10d NAILS SPACED AT12 "O.C. OR (2) ROWS OF TRUSSLOKS SPACED AT 24" O.C. (3)-PLY LVL - (3) ROWS OF 10d NAILS SPACED AT 12" O.C. EACH SIDE OF BEAM OR (2) ROWS OF 5" LONG TRUSSLOKS SPACED AT 24" O.C.

(4)-PLY LVL - (2) ROWS OF 6-3/4" LONG TRUSSLOKS SPACED AT 24" O.C. CONTRACTOR IS RESPONSIBLE FOR ORDERING SKEWABLE HANGERS AS REQUIRED.

#### **CONTRACTORS RESPONSIBILITIES:**

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G.C. TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD. IF THERE ARE ANY QUESTIONS, CONSULT WITH THE ENGINEER IMMEDIATELY.

THE G.C. IS RESPONSIBLE FOR VISITING THE SITE AND FAMILIARIZING HIMSELF WITH THE EXISTING CONDITIONS AND THESE DRAWINGS. ANY DISCREPANCIES OR INCONSISTENCIES MUST BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE BEGINNING CONSTRUCTION. 3. PERMITS AND INSPECTIONS MUST BE ATTAINED AND SCHEDULED BY THE G.C. THE G.C. SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS OF ANY PUBLIC AUTHORITY BEARING

ON THE PERFORMANCE OF THIS WORK. 4. PROPERTY INSURANCE AND LIABILITY INSURANCE MUST BE RETAINED BY THE GENERAL CONTRACTOR. G.C. IS RESPONSIBLE FOR ALL TEMPORARY SHORING, BRIDGING, AND ANY OTHER ACTIVITY REQUIRED AS PART OF THE MEANS & METHODS OF CONSTRUCTION.

6. ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE STANDARDS INDICATED IN THESE DRAWINGS, IN CONFORMANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, IN CONFORMANCE WITH THE REQUIREMENTS OF LOCAL BUILDING OFFICIALS, AND IN CONFORMANCE WITH GENERALLY ACCEPTED STANDARDS OF

GOOD WORKMANSHIP AND GOOD BUILDING PRACTICE IN THIS REGION. ALL CONSTRUCTION SHALL BE IN FULL COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL BUILDING CODES.

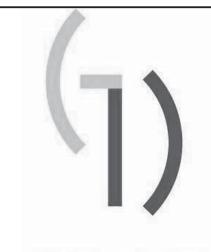
#### TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

1 P 2 C C C C C C C C C C C C C C C C C C	locking between joists or rafters to top late, toe nail eiling joists to plate, toe nail eiling joists not attached to parallel after, laps over partitions, face nail ollar tie rafter, face nail or 1 / 4" × 20 age ridge strap after to plate, toe nail oof rafters to ridge, valley or hip rafters: toe nail face nail  uilt-up corner studs uilt-up header, two pieces with 1 / 2" pacer ontinued header, two pieces ontinuous header to stud, toe nail ouble studs, face nail ouble top plates, face nail ouble top plates, minimum 24-inch effset of end joints, face nail in lapped area ole plate to joist or blocking, face nail ole plate to joist or blocking at braced vall panels	Roof $3 \cdot 8d (2^{1}/_{2}" \times 0.113")$ $3 \cdot 8d (2^{1}/_{2}" \times 0.113")$ $3 \cdot 10d$ $3 \cdot 10d (3" \times 0.128")$ $2 \cdot 16d (3^{1}/_{2}" \times 0.135")$ $4 \cdot 16d (3^{1}/_{2}" \times 0.135")$ $16d (3^{1}/_{2}" \times 0.135")$ $16d (3^{1}/_{2}" \times 0.135")$ $16d (3^{1}/_{2}" \times 0.113")$ $10d (3" \times 0.128")$ $10d (3" \times 0.128")$ $10d (3" \times 0.128")$ $16d (3^{1}/_{2}" \times 0.135")$ $16d (3^{1}/_{2}" \times 0.135")$ $16d (3^{1}/_{2}" \times 0.135")$ $16d (3^{1}/_{2}" \times 0.135")$	24" o.c  16" o.c. along each edge  24" o.c  24" o.c  24" o.c  24" o.c  24" o.c
2 CC 3 CC 3 CC 4 CC 5 R 5 R 6 CC 7 R 8 S 9 CC 10 CC 11 D 12 D 13 CC 11 D 14 S 15 S 16 S 17 T 18 S 17 T 18 S 17 T 18 S 17 T 18 S 10 S 11 S 12 S 13 S 14 S 15 S 16 S 17 T 18 S 17 T 18 S 18 S 19 S 10	eiling joists to plate, toe nail eiling joists not attached to parallel after, laps over partitions, face nail ollar tie rafter, face nail or 1 / 4" × 20 age ridge strap after to plate, toe nail oof rafters to ridge, valley or hip rafters: toe nail face nail  uilt-up corner studs uilt-up header, two pieces with 1 / 2" pacer ontinued header, two pieces ontinuous header to stud, toe nail ouble studs, face nail ouble top plates, minimum 24-inch effset of end joints, face nail in lapped area ole plate to joist or blocking, face nail ole plate to joist or blocking at braced vall panels	3-8d $(2^{1}/_{2}" \times 0.113")$ 3-10d 3-10d $(3" \times 0.128")$ 2-16d $(3^{1}/_{2}" \times 0.135")$ 4-16d $(3^{1}/_{2} \times 0.135")$ 3-16d $(3^{1}/_{2} \times 0.135")$ Wall 10d $(3" \times 0.128")$ 16d $(3^{1}/_{2}" \times 0.135")$ 4-8d $(2^{1}/_{2}" \times 0.135")$ 10d $(3" \times 0.128")$ 10d $(3" \times 0.128")$ 10d $(3" \times 0.128")$ 10d $(3" \times 0.128")$ 8-16d $(3^{1}/_{2}" \times 0.135")$ 3-16d $(3^{1}/_{2}" \times 0.135")$	16" o.c. along each edge  16" o.c. along each edge  —  24" o.c  24" o.c  —  16" o.c
3	eiling joists not attached to parallel after, laps over partitions, face nail ollar tie rafter, face nail or 1 / 4" × 20 age ridge strap after to plate, toe nail oof rafters to ridge, valley or hip rafters: toe nail face nail uilt-up corner studs uilt-up header, two pieces with / 2" pacer ontinued header, two pieces ontinuous header to stud, toe nail ouble studs, face nail ouble top plates, face nail ouble top plates, minimum 24-inch ffset of end joints, face nail in lapped area ole plate to joist or blocking, face nail ole plate to joist or blocking at braced vall panels	3-10d (3" × 0.128") 2-16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135") 4-16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135") 3-16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135") <b>Wa II</b> 10d (3" × 0.128") 16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135") 4-8d (2 <sup>1</sup> / <sub>2</sub> " × 0.135") 10d (3" × 0.128") 10d (3" × 0.128") 10d (3" × 0.128") 10d (3" × 0.128") 10d (3" × 0.135")	16" o.c. along each edge  16" o.c. along each edge  —  24" o.c  24" o.c  —  16" o.c
3	after, laps over partitions, face nail ollar tie rafter, face nail or 1 / 4" × 20 age ridge strap after to plate, toe nail oof rafters to ridge, valley or hip rafters: toe nail face nail  uilt-up corner studs uilt-up header, two pieces with 1 / 2" pacer ontinued header, two pieces ontinuous header to stud, toe nail ouble top plates, face nail ouble top plates, minimum 24- inch ffset of end joints, face nail in lapped area ole plate to joist or blocking, face nail ole plate to joist or blocking at braced vall panels	$3 \cdot 10d (3" \times 0.128")$ $2 \cdot 16d (3^{1}/2" \times 0.135")$ $4 \cdot 16d (3^{1}/2 \times 0.135")$ $3 \cdot 16d (3^{1}/2 \times 0.135")$ Wall $10d (3" \times 0.128")$ $16d (3^{1}/2" \times 0.135")$ $4 \cdot 8d (2^{1}/2" \times 0.135")$ $10d (3" \times 0.128")$ $10d (3^{1}/2" \times 0.135")$ $10d (3^{1}/2" \times 0.135")$	16" o.c. along each edge  16" o.c. along each edge  —  24" o.c  24" o.c  —  16" o.c
4 8 8 8 8 8 9 00 10 11 10 12 10 13 10 14 15 17 17 18 17 18 17 19 11 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10	age ridge strap after to plate, toe nail  oof rafters to ridge, valley or hip rafters:  toe nail  face nail  uilt-up corner studs  uilt-up header, two pieces with 1/2"  pacer ontinued header, two pieces ontinuous header to stud, toe nail  ouble studs, face nail  ouble top plates, face nail  ouble top plates, minimum 24-inch  ffset of end joints, face nail in lapped area  ole plate to joist or blocking, face nail  ole plate to joist or blocking at braced vall panels	2-16d ( $3^{1}/2^{"} \times 0.135^{"}$ )  4-16d ( $3^{1}/2^{'} \times 0.135^{"}$ )  3-16d ( $3^{1}/2^{'} \times 0.135^{"}$ )  Wall  10d ( $3^{"} \times 0.128^{"}$ )  16d ( $3^{1}/2^{"} \times 0.135^{"}$ )  4-8d ( $2^{1}/2^{"} \times 0.135^{"}$ )  10d ( $3^{"} \times 0.128^{"}$ )  10d ( $3^{"} \times 0.128^{"}$ )  8-16d ( $3^{1}/2^{"} \times 0.135^{"}$ )  8-16d ( $3^{1}/2^{"} \times 0.135^{"}$ )  3-16d ( $3^{1}/2^{"} \times 0.135^{"}$ )	16" o.c. along each edge  16" o.c. along each edge  —  24" o.c  24" o.c  —  16" o.c
5 R 6 R 6 R 7 R 8 R 8 R 8 R 9 C 10 C 11 D 12 D 13 C 14 S 15 S 15 S 17 T 18 T 19 1 20 1 10 T 22 W b 23 J 4	after to plate, toe nail  oof rafters to ridge, valley or hip rafters:  toe nail  face nail  uilt-up corner studs  uilt-up header, two pieces with 1/2"  pacer  ontinued header, two pieces  ontinuous header to stud, toe nail  ouble studs, face nail  ouble top plates, face nail  ouble top plates, minimum 24-inch  ffset of end joints,  face nail in lapped area  ole plate to joist or blocking, face nail  ole plate to joist or blocking at braced  vall panels	$4 \cdot 16d \left(3^{1}/_{2} \times 0.135"\right)$ $3 \cdot 16d \left(3^{1}/_{2} \times 0.135"\right)$ $Wa II$ $10d \left(3'' \times 0.128"\right)$ $16d \left(3^{1}/_{2}" \times 0.135"\right)$ $4 \cdot 8d \left(2^{1}/_{2}" \times 0.113"\right)$ $10d \left(3'' \times 0.128"\right)$ $10d \left(3'' \times 0.128"\right)$ $8 \cdot 16d \left(3^{1}/_{2}" \times 0.135"\right)$ $8 \cdot 16d \left(3^{1}/_{2}" \times 0.135"\right)$ $3 \cdot 16d \left(3^{1}/_{2}" \times 0.135"\right)$	16" o.c. along each edge  16" o.c. along each edge  —  24" o.c  24" o.c  —  16" o.c
7 B 8 S 9 C 10 C 11 D 12 D 13 C 14 S 15 S 17 T 18 T 19 1 20 1 10 1 21 1 10 1 22 W 10 1 24 1	toe nail  face nail  uilt-up corner studs  uilt-up header, two pieces with 1/2"  pacer  ontinued header, two pieces  ontinuous header to stud, toe nail  ouble studs, face nail  ouble top plates, face nail  ouble top plates, minimum 24-inch  ffset of end joints,  face nail in lapped area  ole plate to joist or blocking, face nail  ole plate to joist or blocking at braced  vall panels	$4 \cdot 16d \left(3^{1}/_{2} \times 0.135"\right)$ $3 \cdot 16d \left(3^{1}/_{2} \times 0.135"\right)$ $Wa II$ $10d \left(3'' \times 0.128"\right)$ $16d \left(3^{1}/_{2}" \times 0.135"\right)$ $4 \cdot 8d \left(2^{1}/_{2}" \times 0.113"\right)$ $10d \left(3'' \times 0.128"\right)$ $10d \left(3'' \times 0.128"\right)$ $8 \cdot 16d \left(3^{1}/_{2}" \times 0.135"\right)$ $8 \cdot 16d \left(3^{1}/_{2}" \times 0.135"\right)$ $3 \cdot 16d \left(3^{1}/_{2}" \times 0.135"\right)$	16" o.c. along each edge  16" o.c. along each edge  —  24" o.c  24" o.c  —  16" o.c
6	toe nail  face nail  uilt-up corner studs  uilt-up header, two pieces with 1/2"  pacer  ontinued header, two pieces  ontinuous header to stud, toe nail  ouble studs, face nail  ouble top plates, face nail  ouble top plates, minimum 24-inch  ffset of end joints,  face nail in lapped area  ole plate to joist or blocking, face nail  ole plate to joist or blocking at braced  vall panels	3-16d ( $3^{1}/2^{'} \times 0.135^{"}$ )  Wall  10d ( $3^{"} \times 0.128^{"}$ )  16d ( $3^{1}/2^{"} \times 0.135^{"}$ )  16d ( $3^{1}/2^{"} \times 0.135^{"}$ )  4-8d ( $2^{1}/2^{"} \times 0.113^{"}$ )  10d ( $3^{"} \times 0.128^{"}$ )  10d ( $3^{"} \times 0.128^{"}$ )  8-16d ( $3^{1}/2^{"} \times 0.135^{"}$ )  3-16d ( $3^{1}/2^{"} \times 0.135^{"}$ )	16" o.c. along each edge  16" o.c. along each edge  —  24" o.c  24" o.c  —  16" o.c
7 B 8 B 9 C 10 C 11 D 12 D 13 C 14 S 15 S 15 S 17 T 18 T 19 1 20 1 1 n 22 W b 23 J 24 1	face nail  uilt-up corner studs  uilt-up header, two pieces with 1/2"  pacer  ontinued header, two pieces  ontinuous header to stud, toe nail  ouble studs, face nail  ouble top plates, face nail  ouble top plates, minimum 24-inch  ffset of end joints,  face nail in lapped area  ole plate to joist or blocking, face nail  ole plate to joist or blocking at braced  vall panels	3-16d ( $3^{1}/2^{'} \times 0.135^{"}$ )  Wall  10d ( $3^{"} \times 0.128^{"}$ )  16d ( $3^{1}/2^{"} \times 0.135^{"}$ )  16d ( $3^{1}/2^{"} \times 0.135^{"}$ )  4-8d ( $2^{1}/2^{"} \times 0.113^{"}$ )  10d ( $3^{"} \times 0.128^{"}$ )  10d ( $3^{"} \times 0.128^{"}$ )  8-16d ( $3^{1}/2^{"} \times 0.135^{"}$ )  3-16d ( $3^{1}/2^{"} \times 0.135^{"}$ )	16" o.c. along each edge  16" o.c. along each edge  — 24" o.c 24" o.c — 16" o.c
8	uilt-up corner studs  uilt-up header, two pieces with 1/2"  pacer  ontinued header, two pieces  ontinuous header to stud, toe nail  ouble studs, face nail  ouble top plates, face nail  ouble top plates, minimum 24-inch  ffset of end joints,  face nail in lapped area  ole plate to joist or blocking, face nail  ole plate to joist or blocking at braced  vall panels	Wall $10d (3" \times 0.128")$ $16d (3^{1}/_{2}" \times 0.135")$ $16d (3^{1}/_{2}" \times 0.135")$ $4 \cdot 8d (2^{1}/_{2}" \times 0.113")$ $10d (3" \times 0.128")$ $10d (3" \times 0.128")$ $8 \cdot 16d (3^{1}/_{2}" \times 0.135")$ $16d (3^{1}/_{2}" \times 0.135")$	16" o.c. along each edge  16" o.c. along each edge  — 24" o.c 24" o.c — 16" o.c
8	uilt-up header, two pieces with 1/2" pacer ontinued header, two pieces ontinuous header to stud, toe nail ouble studs, face nail ouble top plates, face nail ouble top plates, minimum 24-inch ffset of end joints, face nail in lapped area ole plate to joist or blocking, face nail ole plate to joist or blocking at braced vall panels	$10d (3" \times 0.128")$ $16d (3^{1}/_{2}" \times 0.135")$ $16d (3^{1}/_{2}" \times 0.135")$ $4 \cdot 8d (2^{1}/_{2}" \times 0.113")$ $10d (3" \times 0.128")$ $10d (3" \times 0.128")$ $8 \cdot 16d (3^{1}/_{2}" \times 0.135")$ $16d (3^{1}/_{2}" \times 0.135")$	16" o.c. along each edge  16" o.c. along each edge  —  24" o.c  24" o.c  —  16" o.c
8	uilt-up header, two pieces with 1/2" pacer ontinued header, two pieces ontinuous header to stud, toe nail ouble studs, face nail ouble top plates, face nail ouble top plates, minimum 24-inch ffset of end joints, face nail in lapped area ole plate to joist or blocking, face nail ole plate to joist or blocking at braced vall panels	$16d (3^{1}/2" \times 0.135")$ $16d (3^{1}/2" \times 0.135")$ $4 \cdot 8d (2^{1}/2" \times 0.113")$ $10d (3" \times 0.128")$ $10d (3" \times 0.128")$ $8 \cdot 16d (3^{1}/2" \times 0.135")$ $16d (3^{1}/2" \times 0.135")$ $3 \cdot 16d (3^{1}/2" \times 0.135")$	16" o.c. along each edge  16" o.c. along each edge  — 24" o.c 24" o.c — 16" o.c
9	pacer ontinued header, two pieces ontinuous header to stud, toe nail ouble studs, face nail ouble top plates, face nail ouble top plates, minimum 24-inch ffset of end joints, face nail in lapped area ole plate to joist or blocking, face nail ole plate to joist or blocking at braced vall panels	$16d (3^{1}/_{2}" \times 0.135")$ $4 \cdot 8d (2^{1}/_{2}" \times 0.113")$ $10d (3" \times 0.128")$ $10d (3" \times 0.128")$ $8 \cdot 16d (3^{1}/_{2}" \times 0.135")$ $16d (3^{1}/_{2}" \times 0.135")$ $3 \cdot 16d (3^{1}/_{2}" \times 0.135")$	16" o.c. along each edge — 24" o.c 24" o.c — 16" o.c
9 C C C C C C C C C C C C C C C C C C C	ontinued header, two pieces ontinuous header to stud, toe nail ouble studs, face nail ouble top plates, face nail ouble top plates, minimum 24-inch ffset of end joints, face nail in lapped area ole plate to joist or blocking, face nail ole plate to joist or blocking at braced vall panels	$4 \cdot 8d \left(2^{1}/_{2}" \times 0.113"\right)$ $10d \left(3" \times 0.128"\right)$ $10d \left(3" \times 0.128"\right)$ $8 \cdot 16d \left(3^{1}/_{2}" \times 0.135"\right)$ $16d \left(3^{1}/_{2}" \times 0.135"\right)$ $3 \cdot 16d \left(3^{1}/_{2}" \times 0.135"\right)$	— 24" o.c 24" o.c — — 16" o.c
11 D 12 D 13 O 14 S 15 S 16 S 17 T 18 T 19 1 20 1 21 1 22 W 5	ouble studs, face nail ouble top plates, face nail ouble top plates, minimum 24-inch ffset of end joints, face nail in lapped area ole plate to joist or blocking, face nail ole plate to joist or blocking at braced vall panels	$4 \cdot 8d \left(2^{1}/_{2}" \times 0.113"\right)$ $10d \left(3" \times 0.128"\right)$ $10d \left(3" \times 0.128"\right)$ $8 \cdot 16d \left(3^{1}/_{2}" \times 0.135"\right)$ $16d \left(3^{1}/_{2}" \times 0.135"\right)$ $3 \cdot 16d \left(3^{1}/_{2}" \times 0.135"\right)$	24" o.c — 16" o.c
12 D 13 D 14 S 15 S 15 S 17 T 18 T 19 1 20 1 21 1 22 W 5 23 J 24 1	ouble top plates, face nail ouble top plates, minimum 24-inch ffset of end joints, face nail in lapped area ole plate to joist or blocking, face nail ole plate to joist or blocking at braced vall panels	10d (3" × 0.128")  8-16d (3 $^{1}/_{2}$ "× 0.135")  16d (3 $^{1}/_{2}$ " × 0.135")  3-16d (3 $^{1}/_{2}$ " × 0.135")	24" o.c — 16" o.c
13	ouble top plates, minimum 24-inch  ffset of end joints, face nail in lapped area  ole plate to joist or blocking, face nail  ole plate to joist or blocking at braced vall panels	8-16d (3 $^{1}/_{2}$ "× 0.135")  16d (3 $^{1}/_{2}$ "× 0.135")  3-16d (3 $^{1}/_{2}$ "× 0.135")	— 16" o.c
13 o  14 S  15 S  16 S  17 T  18 T  19 1  20 1  21 1  n  22 W  b  23 J  24 1	ffset of end joints, face nail in lapped area  ple plate to joist or blocking, face nail  ple plate to joist or blocking at braced  rall panels	16d $(3^{1}/2^{"} \times 0.135")$ 3-16d $(3^{1}/2^{"} \times 0.135")$	1
15 S W 16 S S W 17 T 18 T 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ole plate to joist or blocking at braced vall panels	3-16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135")	1
15 w  16 S  17 T  18 T  19 1  20 1  21 1  22 b  23 J  24 1	vall panels		16" o.c
16 Si  17 T  18 T  19 1  20 1  21 1  n  22 W  b	KINGS INC. MARKETING TANKS		_
17 T 18 ir 19 1 20 1 21 1 n 22 W b	STATE OF MARKET NO. 1989		• · · · · · · · · · · · · · · · · · · ·
18 IT ir ir 19 1 1 20 1 1 n 22 W b	tud to sole plate, toe nail	or	10
18 IT ir ir 19 1 1 20 1 1 n 22 W b		$2 \cdot 16  \text{d}  3^{1}/_{2} \times 0.135^{\circ})$	
18 ir 19 1 20 1 21 1 21 v 22 b 23 1	op or sole plate to stud, end nail	2-16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135")	<u> </u>
19 1 20 1 21 1 22 W b 23 J 24 1	op plates, laps at corners and atersections, face nail	2-10d (3" × 0.128")	-
20 1 n n 21 n n b 22 b b 23 July 24 1		2-8d (2 <sup>1</sup> / <sub>2</sub> ×0.113")	<u> </u>
21 1 1 n v b	" brace to each stud and plate, face nail	2 staples 1 <sup>3</sup> / <sub>4</sub> "	_
20 n 21 1 n 22 W b	" × 6" sheathing to each bearing, face	2-8d (2 <sup>1</sup> / <sub>2</sub> " × 0.113")	1923
21 n 22 b 23 Ja 24 1	ail	2 staples 1 <sup>3</sup> / <sub>4</sub> "	76 <del>-</del>
22 b	" × 8" sheathing to each bearing, face	2-8d (2 <sup>1</sup> / <sub>2</sub> " × 0.113")	Office.
22 b	ail	3 staples 1 <sup>3</sup> / <sub>4</sub> "	18 <del>=</del>
23 Ji	/ider than 1" × 8" sheathing to each	$3-8d (2^{1}/_{2}" \times 0.113")$	15-
24 1	earing, face nail	4 staples 1 <sup>3</sup> / <sub>4</sub> "	
24 1		Floor	
74	pist to sill or girder, toe nail	3-8d (2 <sup>1</sup> / <sub>2</sub> " × 0.113")	200
TO THE PARTY OF TH	" × 6" subfloor or less to each joist, face ail	2-8d (2 <sup>1</sup> /2 × 0.113") 2 staples 1 <sup>3</sup> / <sub>4</sub> "	
	subfloor to joist or girder, blind and	2-16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135")	
ta	ace nail	2-16d (5 /2 ×0.155 )	150
26	im joist to top plate, toe nail (roof pplications also)	$8d(2^1/2^n \times 0.113^n)$	6" o.c.
	" planks (plank & beam - floor & roof)	2-16d (3 <sup>1</sup> / <sub>2</sub> " × 0.135")	at each bearing
790	Zares extension and a second	10d (3" × 0.128")	Nail each layer as follows: 32" o.c. at top and bottom and staggered. Two nails at ends and at each splice.
29 L	uilt-up girders and beams, 2-inch imber layers		At each joist or rafter

			S PACING OF FAST	ENERS
TEM	DESCRIPTION OF BUILDING	DESCRIPTION OF FASTENER <sup>b,c,e</sup>	Edges (inches) <sup>i</sup>	Intermediate supports <sup>c, e</sup> (inches)
	Wood structural panels, subflo	oor, roof and interior wall sheathing to framing and particle bo	ard wall sheathing to framing	
30	<sup>3</sup> /8" - <sup>1</sup> /2 "	6d common (2"×0.113") nail (subfloor wall) 8d common (2 <sup>1</sup> / <sub>2</sub> "×0.131") nail (roof) <sup>f</sup>	6	12 <sup>6</sup>
31	<sup>19</sup> / <sub>32</sub> " - 1"	8d common nail (2 <sup>1</sup> / <sub>2</sub> "×0.131")	6	12 <sup>6</sup>
32	11/8" - 11/4"	10d common (3"×0.148") nail or 8d (2 <sup>1</sup> / <sub>2</sub> "×0.131") deformed nail	6	12
		Other wall sheathing h		
33	<sup>1</sup> / <sub>2</sub> " structural cellulosic fiberboard sheathing	$1^1/_2$ " galvanized roofing nail, $^7/_{16}$ " crown or $1$ " grown staple 16 ga., $1^1/_4$ "long	3	6
34	න් <sub>/32</sub> " structural cellulosic fiberboard sheathing	1 <sup>3</sup> / <sub>4</sub> "galvanized roofing nail, <sup>7</sup> / <sub>16</sub> " crown or 1" crown staple 16 ga., 1 <sup>1</sup> / <sub>2</sub> " long	3	6
35	<sup>1</sup> / <sub>2</sub> "gypsum sheathing <sup>d</sup>	$1^1/2$ "galvanized roofing nail; staple galvanized, $1^1/2$ " long; $1^1/4$ screws, Type W or S	7	7
36	5/8" gypsum sheathing <sup>d</sup>	$1^3/_4$ " glavanized roofing nail; staple galvanized, $1^5/_8$ "long; $1^5/_8$ "screws, Type W or S	7	7
	Wood	d structural panels, combination subfloor underlayment to fra	ming	
37	<sup>3</sup> / <sub>4</sub> " and less	6d deformed (2" × 0.120") nail or 8d common (2 <sup>1</sup> / <sub>2</sub> " × 0.131") nail	6	12

FOR SI: 1 INCH = 25.4 MM, 1 FOOT = 304.8 MM, 1 MILE PER HOUR = 0.447 M/S; 1KSI = 6.895 MPA.

- A. ALL NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN: 80 KSI FOR SHANK DIAMETER OF 0.192 INCH (20D COMMON NAIL), 90 KSI FOR SHANK
- DIAMETERS LARGER THAN 0.142 INCH BUT NOT LARGER THAN 0.177 INCH, AND 100 KSI FOR SHANK DIAMETERS OF 0.142 INCH OR LESS.
- STAPLES ARE 16 GAGE WIRE AND HAVE A MINIMUM 7/16-INCH ON DIAMETER CROWN WIDTH. NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES ON CENTER AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR GREATER.
- FOUR-FOOT-BY-8-FOOT OR 4-FOOT-BY-9-FOOT PANELS SHALL BE APPLIED VERTICALLY. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3(2).
- FOR REGIONS HAVING BASIC WIND SPEED OF 110 MPH OR GREATER, 8D DEFORMED (21/2"×0.120) NAILS SHALL BE USED FOR ATTACHING PLYWOOD AND WOOD
- STRUCTURAL PANEL ROOF SHEATHING TO FRAMING WITHIN MINIMUM 48-INCH DISTANCE FROM GABLE END WALLS, IF MEAN ROOF HEIGHT IS MORE THAN 25 FEET,
- FOR REGIONS HAVING BASIC WIND SPEED OF 100 MPH OR LESS, NAILS FOR ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMING SHALL BE SPACED 6 INCHES ON CENTER. WHEN BASIC WIND SPEED IS GREATER THAN 100 MPH, NAILS FOR ATTACHING PANEL ROOF SHEATHING TO INTERMEDIATE SUPPORTS SHALL BE SPACED 6 INCHES ON CENTER FOR MINIMUM 48-INCH DISTANCE FROM RIDGES, EAVES AND GABLE END WALLS; AND 4 INCHES
- ON CENTER TO GABLE END WALL FRAMING. GYPSUM SHEATHING SHALL CONFORM TO ASTM C 1396 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO ASTM C 208.
- SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT ALL FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS NEED NOT BE PROVIDED EXCEPT AS REQUIRED BY OTHER PROVISIONS OF THIS CODE. FLOOR PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING.



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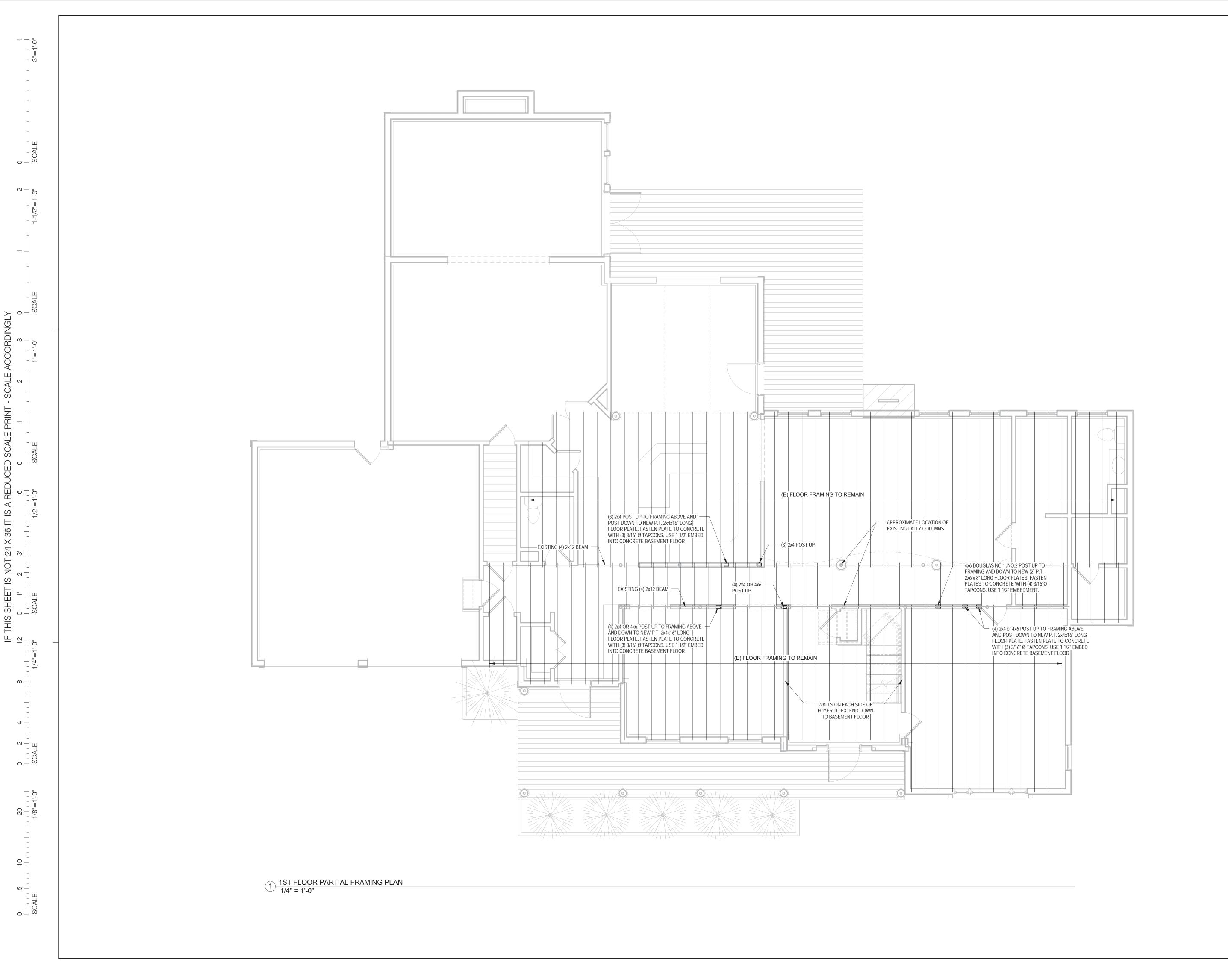
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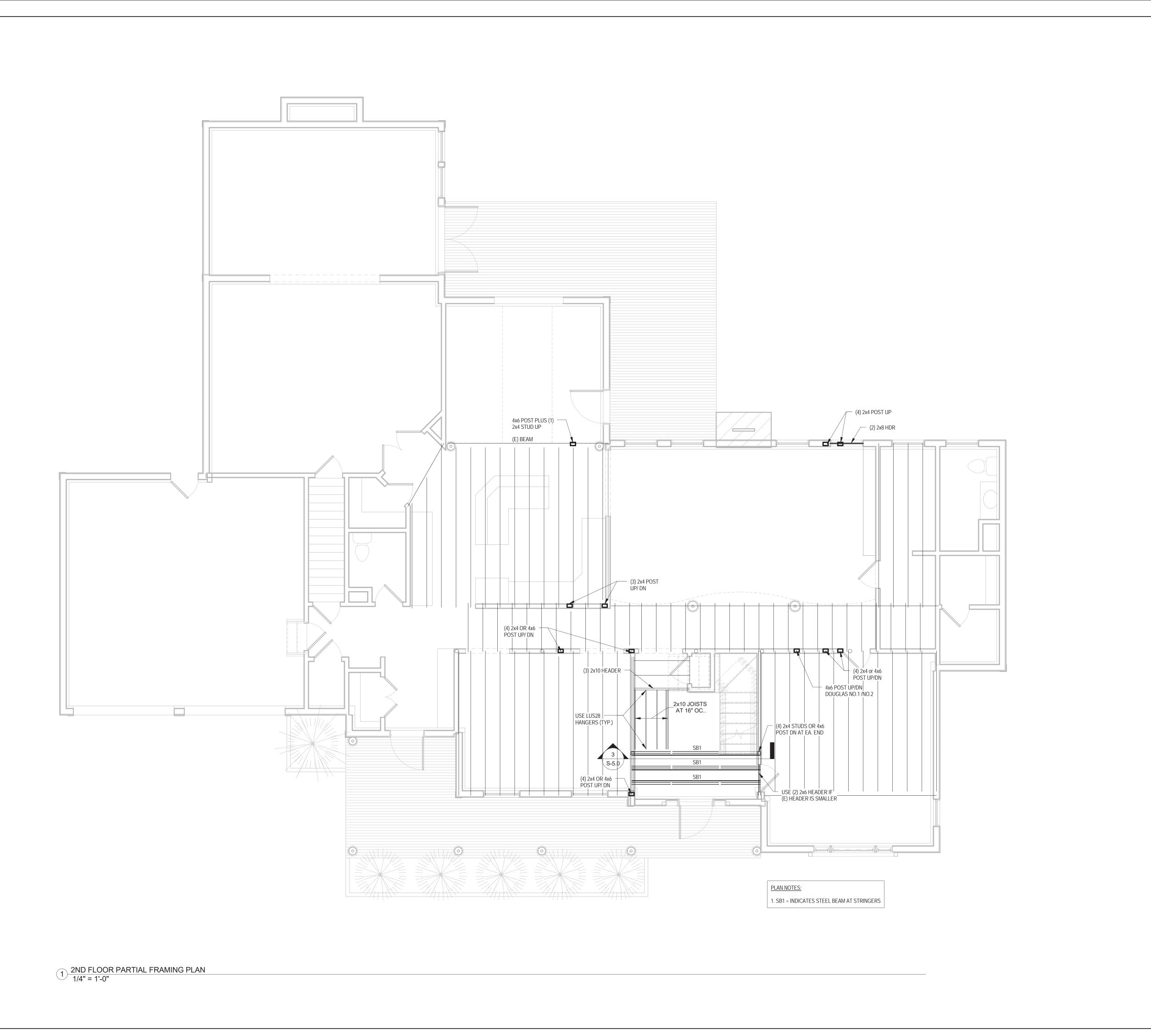
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Second Floor
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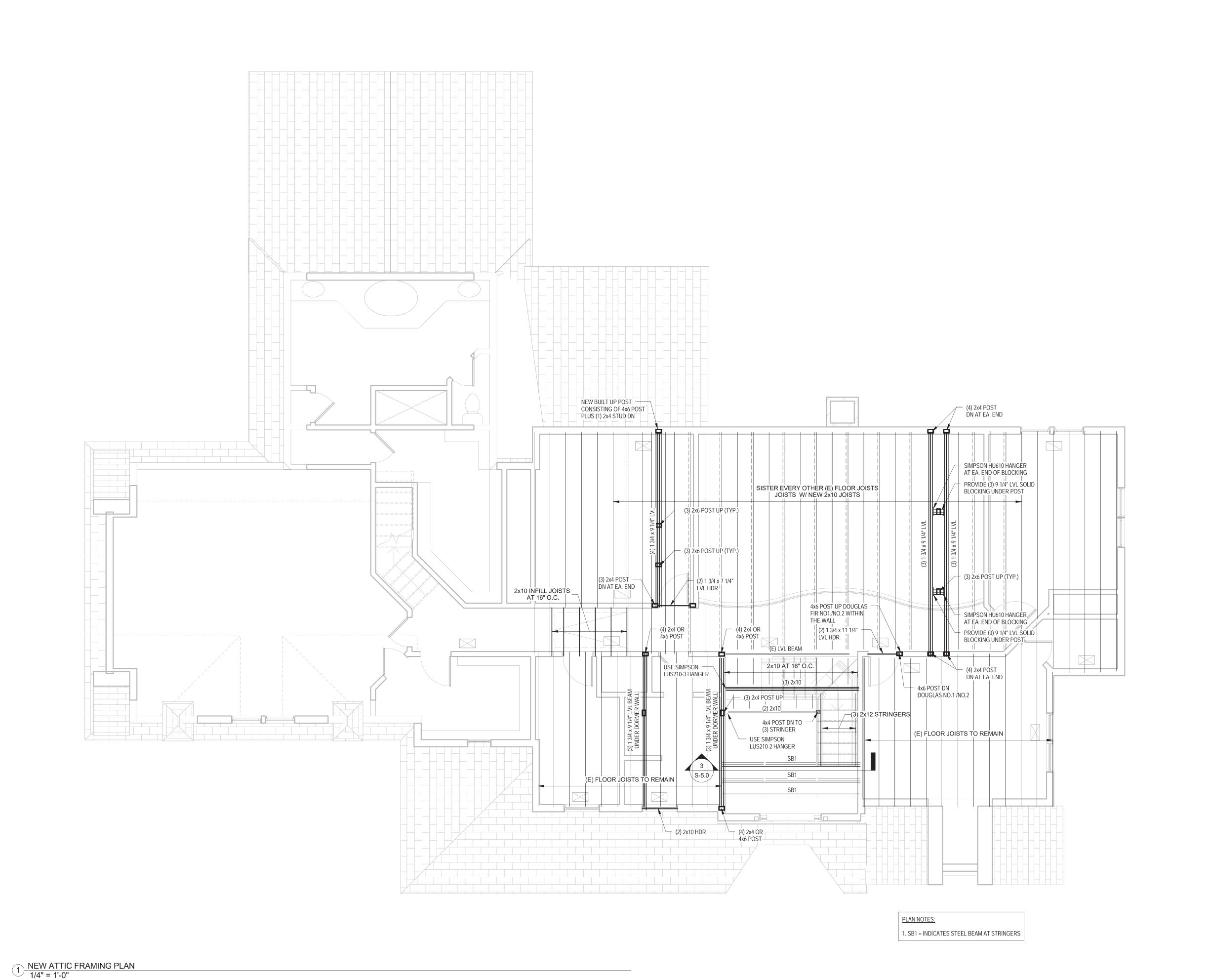
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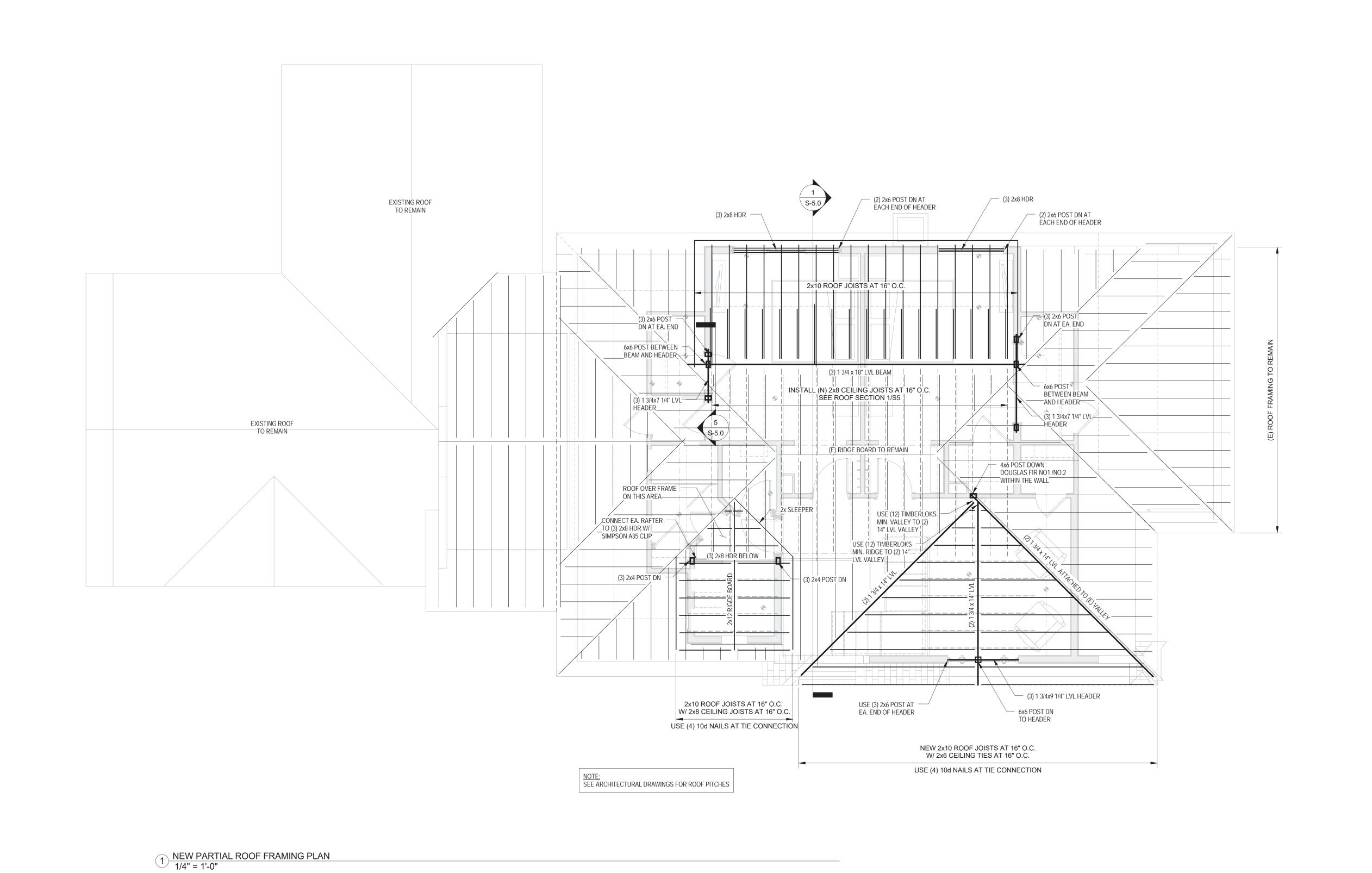
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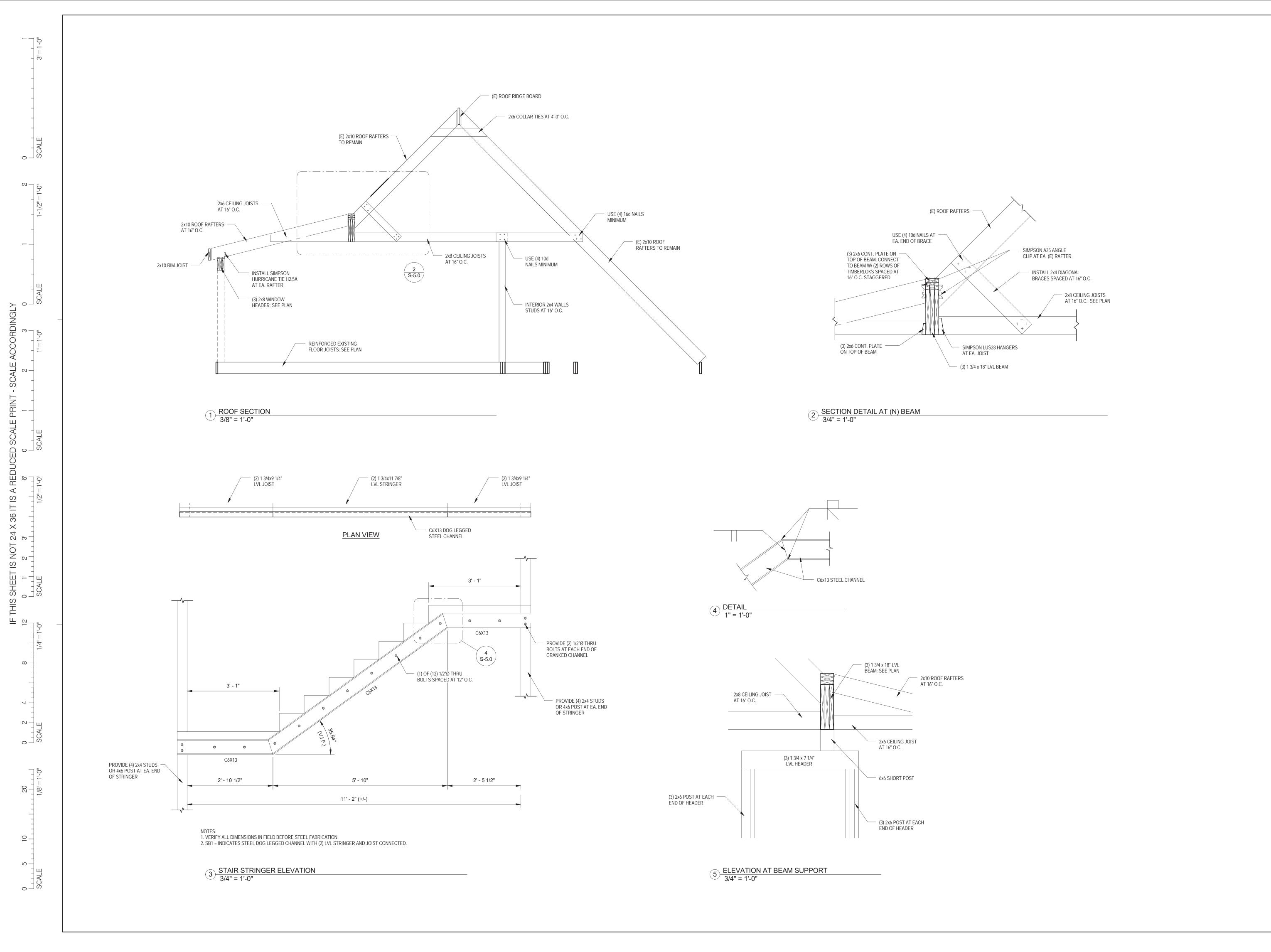
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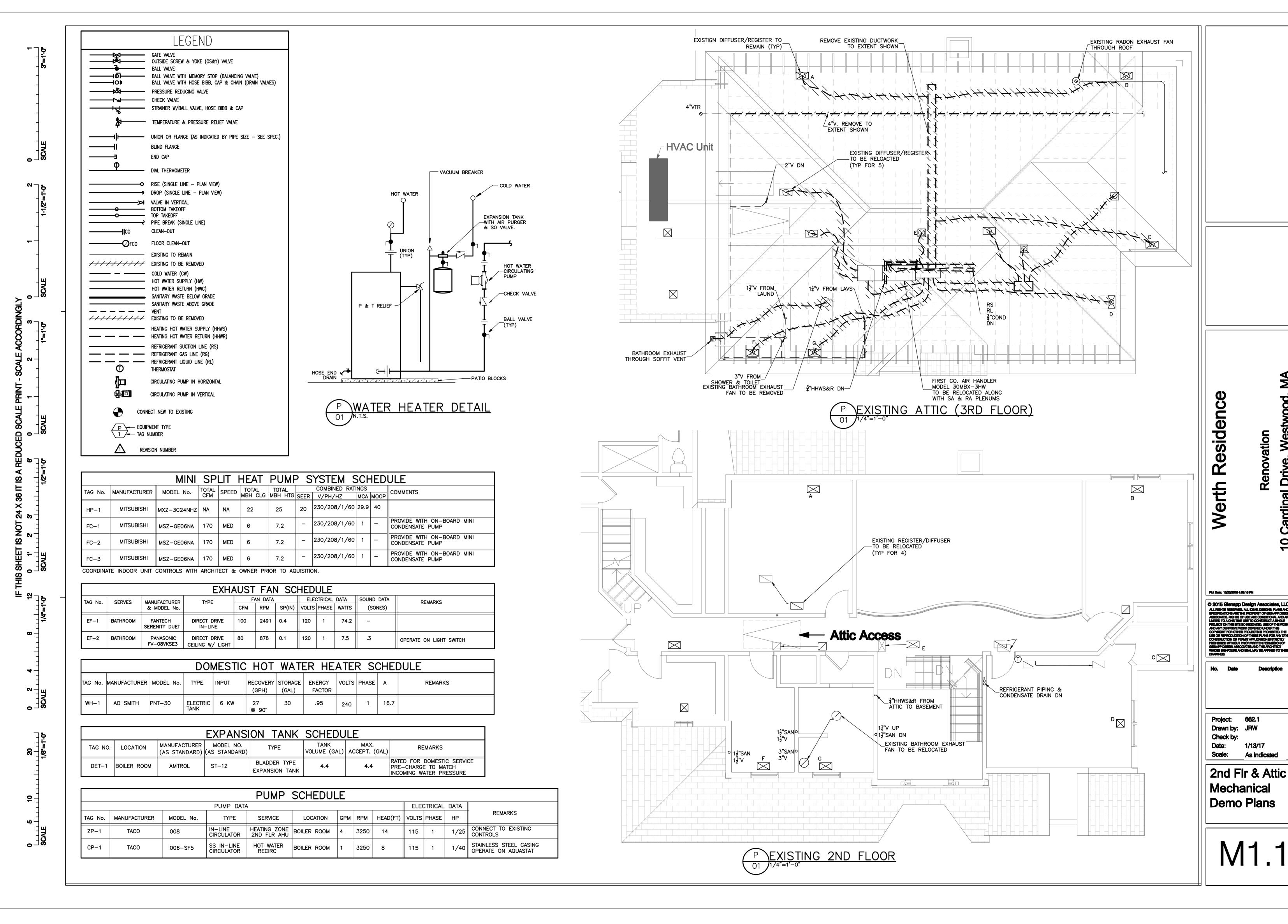
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# HVAC SPECIFICATIONS

#### PIPE & FITTINGS

- 1. REFRIGERANT PIPING SHALL BE TYPE "ACR" COPPER PIPING, WASHED AND CAPPED AT THE FACTORY. PROVIDE WITH COPPER BRAZED JOINTS & FITTINGS.
- 2. CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD DRAINAGE FITTINGS.
- 3. HEATING HOT WATER PIPING SHALL BE TYPE L COPPER WITH WROUGHT COPPER FITTINGS AND 95/5 LEAD FREE SOLDER. ABOVE GRADE PIPING MAY BE PEX TUBING WITH OXYGEN BARRIER MEETING ASTM F876, F877 WITH PEX REINFORCING RING COLD EXPANSION FITTINGS MEETING ASTM F1960-99. RUNS TO EQUIPMENT SHALL BE INSTALLED AS ONE LENGTH WITHOUT CONCEALED FITTINGS OR COUPLINGS.

#### **DUCTWORK**

- 1. SHEET METAL DUCTWORK SHALL BE GALVANIZED STEEL, SMOOTH INSIDE AND TRUE TO SIZE. DUCT CONSTRUCTION, GAUGES, SPECIFICATIONS AND SUPPORTS SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE 1995 EDITION OF SMACNA DUCT CONSTRUCTION STANDARDS. NO STANDARDS FOR DUCTWORK OTHER THAN SMACNA SHALL BE ACCEPTED. ALL DUCTWORK SHALL BE 1" WATER GAUGE PRESSURE CLASS.
- 2. ALL JOINTS AND ALL SEAMS OF ALL DUCTWORK SHALL BE SEALED WITH UL LABELED SEALER AS MANUFACTURED BY 3M COMPANY OR UNITED STEEL METAL EQUAL TO 3M EC-900.
- 3. SHEET METAL ELBOWS SHALL HAVE A RADIUS OF 1½ TIMES THE DUCT WIDTH MEASURED BY DUCT CENTERLINES. WHERE CONDITIONS WILL NOT PERMIT OR WHERE INDICATED ON DRAWINGS USE MITER TURNS WITH DOUBLE WALL TURNING VANES. PROVIDE AIR SPLITTER DAMPERS WHERE INDICATED ON THE DRAWINGS AND WHERE REQUIRED FOR ADJUSTMENT OF AIR DISTRIBUTION TO RESPECTIVE DUCT BRANCHES. SPLITTER DAMPERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE SMACNA STANDARDS.
- 4. PROVIDE FACTORY FABRICATED VOLUME DAMPERS IN ALL SUPPLY, RETURN BRANCH DUCTS, AT EACH SUPPLY AIR REGISTER AND WHERE INDICATED ON DRAWINGS. VOLUME DAMPERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE SMACNA STANDARDS.
- 5. AFTER AND DURING ASSEMBLY OF DUCTS, CLEAN ALL DIRT, GREASE, DUST, RUBBISH, ETC. FROM BOTH THE INTERIOR AND EXTERIOR OF DUCTWORK.
- 6. WHERE DUCTS ARE INSULATED, PROVISION SHALL BE MADE FOR A NEAT INSTALLATION FINISH AROUND DAMPER OPERATOR QUADRANT. TEST OPENINGS, ACCESS DOORS AND SIMILAR OPERATION DEVICES. A METAL COLLAR EQUIVALENT IN DEPTH TO THE INSULATION MAY BE FINISHED SHALL BE MOUNTED ON DUCT.
  ALL DUCT WORK AND EQUIPMENT SHALL BE SUPPORTED FROM THE TOP CORD OF JOISTS OR TRUSSES.
- 7. PROVIDE FLEXIBLE CONNECTIONS AT CONNECTIONS TO AIR HANDLERS AND EXHAUST FANS.

#### **INSULATION**

- 1. INSULATION MATERIALS, COATINGS AND OTHER ACCESSORIES SHALL INDIVIDUALLY HAVE A FIRE—HAZARD RATING NOT TO EXCEED 25 FOR FLAME SPREAD AND 50 FOR FUEL CONTRIBUTED AND SMOKE DEVELOPED. RATINGS SHALL BE DETERMINED ACCORDING TO U.L. \*TEST METHOD FOR FIRE HAZARD CLASSIFICATION OF BUILDING MATERIALS,\* NO. 823 OR NFPA NO. 225 OR ASTM E84.
- 2. ALL CONDENSATE DRAIN PIPING AND REFRIGERANT SUCTION PIPING SHALL BE INSULATED WITH \*\* WALL CLOSED CELL FOAM PIPE INSULATION. PIPING OUTSIDE OF THE BUILDING SHALL HAVE ITS INSULATION COATED WITH BRUSH APPLIED PROTECTIVE COATING.

3. ALL SUPPLY & RETURN AIR DUCTWORK, OUTDOOR AIR INTAKE DUCTWORK SHALL BE INSULATED WITH 1½ THICK FOIL FACED FIBERGLASS DUCT WRAP, 1-1/2 LB. DENSITY. INSULATION SHALL BE KNAUF DUCT WRAP OR APPROVED EQUAL, TAPE ALL JOINTS WITH FOIL DUCT TAPE.

CONTROLS

1. HEAT PUMP CONTROLS SHALL BE BY THE MANUFACTURER. OBTAIN APPROVAL FOR WALL MOUNT CONTROLLER FROM THE ARCHITECT & OWNER PRIOR TO ORDERING.

#### PLUMBING SPECIFICATIONS

#### PIPE & FITTINGS

- 1. ABOVE GRADE HOT AND COLD WATER PIPING WITHIN 36" OF A WATER HEATER SHALL BE TYPE L COPPER WITH WROUGHT COPPER FITTINGS AND 95/5 LEAD FREE SOLDER.
- 2. ABOVE GRADE BRANCH PIPING MAY BE PEX TUBING MEETING ASTM F876 & F877, WITH PEX REINFORCING RING COLD EXPANSION FITTINGS MEETING ASTM F1960-99. RUNS TO FIXTURES SHALL BE INSTALLED AS ONE LENGTH WITHOUT CONCEALED FITTINGS OR COUPLINGS. WHERE PEX IS USED ON THE DOMESTIC HOT WATER SYSTEM WITH HOME-RUNS TO THE BASEMENT. THE RECIRC SYSTEM SHALL ALSO BE PROVIDED WITH A HOME-RUN FROM EACH BRANCH. PROVIDE A CHCK AND BALANCING FALVE FOR EACH RECIRC LEG.
- 3. SANITARY WASTE & VENT PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD DRAINAGE PATTERN FITTINGS
- 6. CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD DRAINAGE FITTINGS.

#### VALVE:

- 1. DRAIN VALVES SHALL CONSIST OF HOSE END VALVE DESIGNED FOR 200 PSI WITH THREADED CAP AND CHAIN. PROVIDE AT ALL LOW POINTS IN WATER PIPING SYSTEM AND AT THE BASE OF ALL RISERS SO THAT ENTIRE SYSTEM MAY BE DRAINED. APOLLO 78 SERIES WITH ₹" HOSE CONNECTION, CAP AND CHAIN.
- 3. CHECK VALVES SHALL BE HORIZONTAL REGRINDING SWING 200#, MILWAUKEE 1509.
- 4. BALL VALVES SHALL BE WITH STAINLESS STEEL STEM AND BALL, STANDARD PORT, BRONZE, SOLDER END, DESIGNED FOR 150 PSI, MILWAUKEE BA150S.

#### <u>INSULATION</u>

- 1. INSULATION SHALL BE CONTINUOUS THROUGH SLEEVES, PENETRATIONS AND HANGERS. PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE FIREPROOFED WITH SPEC SEAL TYPE SSS OR EQUIVALENT.
- 2. HOT AND COLD WATER PIPING SHALL BE INSULATED WITH 1" THICK FIBERGLASS INSULATION. INSULATION SHALL BE BE PROVIDED WITH A FACTORY APPLIED ALL SERVICE JACKET, K FACTOR OF 0.23 AT 75°F AND AN ASTM FIRE HAZARD RATING OF 25 FLAME, 50 SMOKE DEVELOPED.

#### INSTALLATION

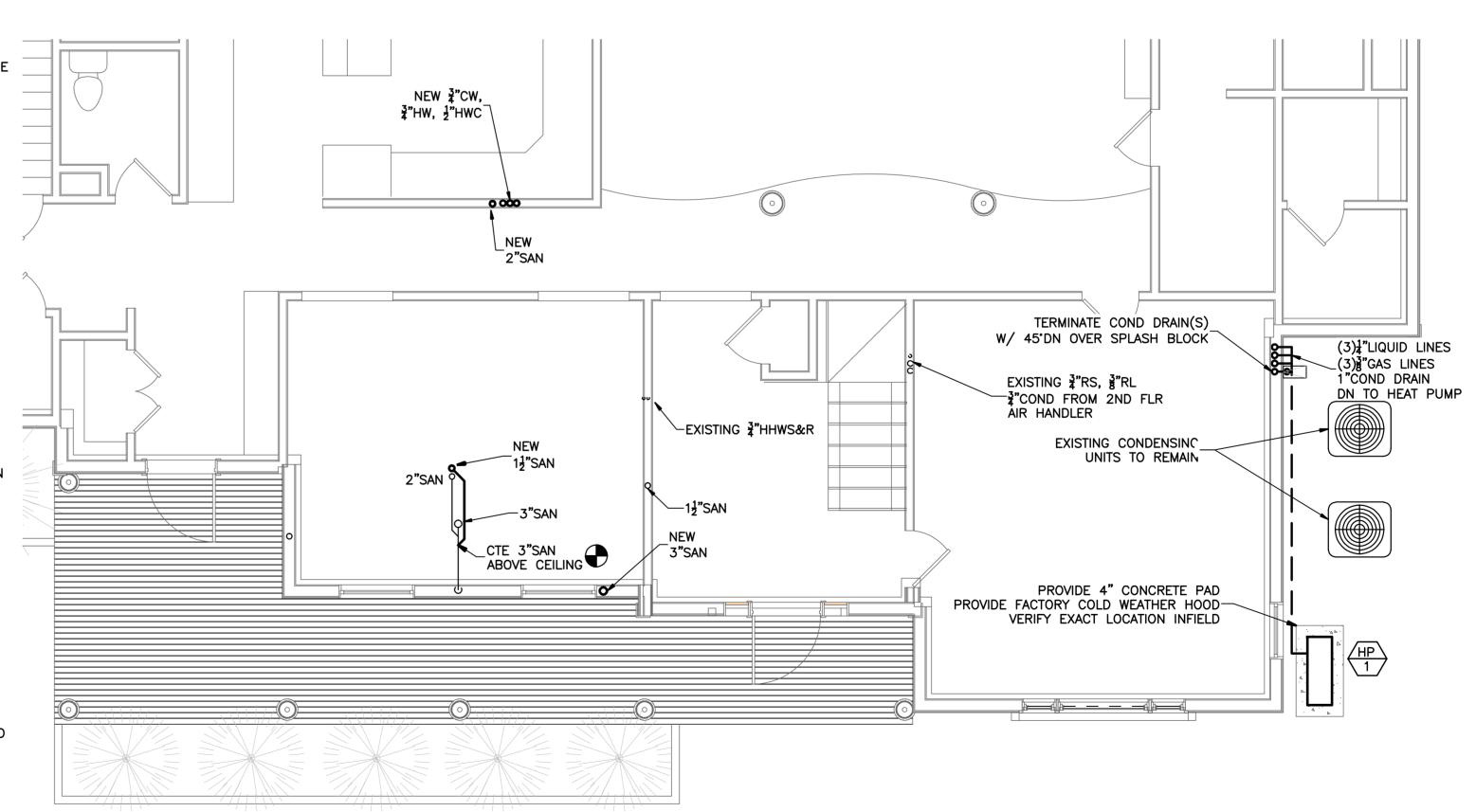
- 1. PIPES SHALL BE PLUMB AND PARALLEL TO BUILDING WALLS, BEAMS AND COLUMNS. ALL HORIZONTAL LINES SHALL BE EVENLY PITCHED AND PROPERLY SECURED WITH IRON OR STEEL HANGERS. A PITCH OF 1/4" PER LINEAL FOOT SHALL BE MAINTAINED ON ALL SOIL AND WASTE LINES, WHEREVER POSSIBLE. WHERE LONG RUNS OF PIPING REQUIRE LESS PITCH, DUE TO SPACE RESTRICTIONS, A LESSER PITCH SHALL BE ALLOWED ON MAIN LINES 4" AND OVER IN SIZE, BUT, IN NO EVENT, SHOULD ANY PIPELINE HAVE A SLOPE LESS THAN 1/8" PER LINEAR FOOT.
- 2. INSTALL ALL EQUIPMENT AND FIXTURES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

#### TESTIN

HANGERS, INSERTS AND SUPPORTS

- 1. ALL PIPING SYSTEMS SHALL BE SUBJECT TO TESTING AS NOTED AND SHALL HOLD TIGHT AT THE PRESSURE HEAD STATED FOR THE TIME INTERVAL REQUIRED WITHOUT ADDING AIR OR WATER. WHILE ANY SYSTEM IS BEING TESTED, REQUIRED HEAD OR PRESSURE SHALL BE MAINTAINED UNTIL ALL JOINTS ARE INSPECTED.
- 2. ALL EQUIPMENT, MATERIAL AND LABOR REQUIRED FOR TESTING ANY OF THE VARIOUS SYSTEMS OR ANY PART THEREOF SHALL BE PROVIDED BY THE PLUMBING SUBCONTRACTOR.

  <u>DISINFECTION OF WATER SYSTEMS</u>
- 1. THE ENTIRE NEW WATER PIPING SYSTEM SHALL BE THOROUGHLY DISINFECTED WITH A SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION OF AVAILABLE CHLORINE. THE CHLORINATING MATERIAL SHALL BE EITHER LIQUID CHLORINE OR SODIUM HYPOCHLORITE SOLUTION, SHALL BE INTRODUCED INTO THE NEW SYSTEM AND DRAWN TO ALL POINTS IN THE NEW SYSTEM.
- 2. THE DISINFECTION SOLUTION SHALL BE ALLOWED TO REMAIN IN THE SYSTEM FOR A PERIOD OF 8 HOURS, DURING WHICH PERIOD ALL VALVES AND FAUCETS SHALL BE OPENED AND CLOSED SEVERAL TIMES. AFTER DISINFECTION, THE SOLUTION SHALL BE FLUSHED FROM THE SYSTEM WITH CLEAR WATER UNTIL THE RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN 0.2 PARTS PER MILLION.
- 3. THIS WORK SHALL BE SUPERVISED OR DONE BY AN APPROVED CHEMICAL TESTING LABORATORY AND RESULTS SENT TO THE ENGINEER OR HIS REPRESENTATIVE FOR VERIFICATION.
- 1. ALL PIPING SHALL BE RIGIDLY SUPPORTED FROM THE BUILDING STRUCTURES BY MEANS OF APPROVED HANGERS AND SUPPORTS. PIPING SHALL BE SUPPORTED TO MAINTAIN REQUIRED GRADING AND PITCHING OF LINE, TO PREVENT VIBRATION AND TO SECURE PIPING IN PLACE, AND SHALL BE ARRANGED SO AS TO PROVIDE FOR EXPANSION AND CONTRACTION. IN NO CASE SHALL RISERS OR MAINS CONTACT BUILDING STRUCTURES.





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Basement & 1st Flr. New Work Mechanical Plans & Specs

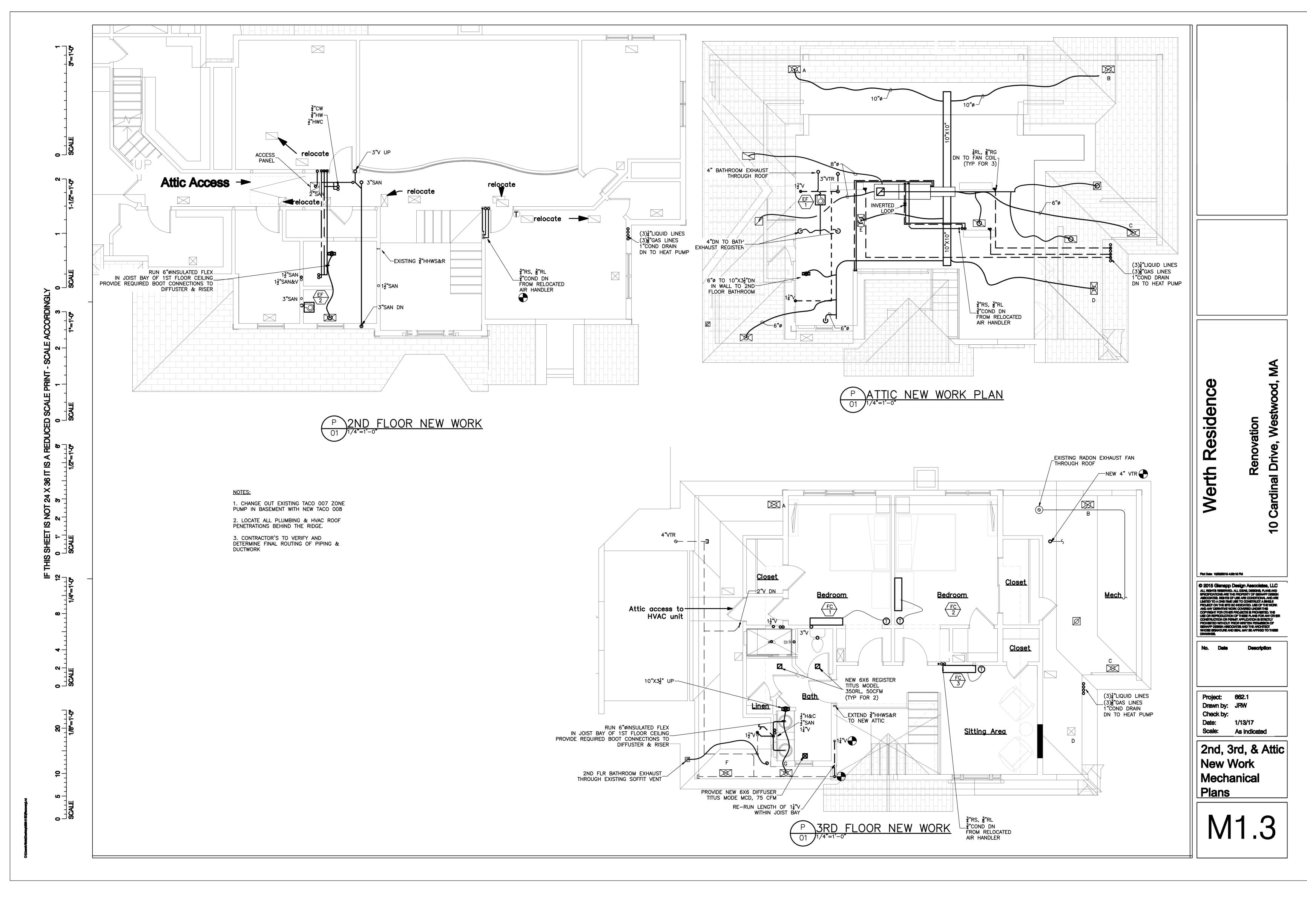
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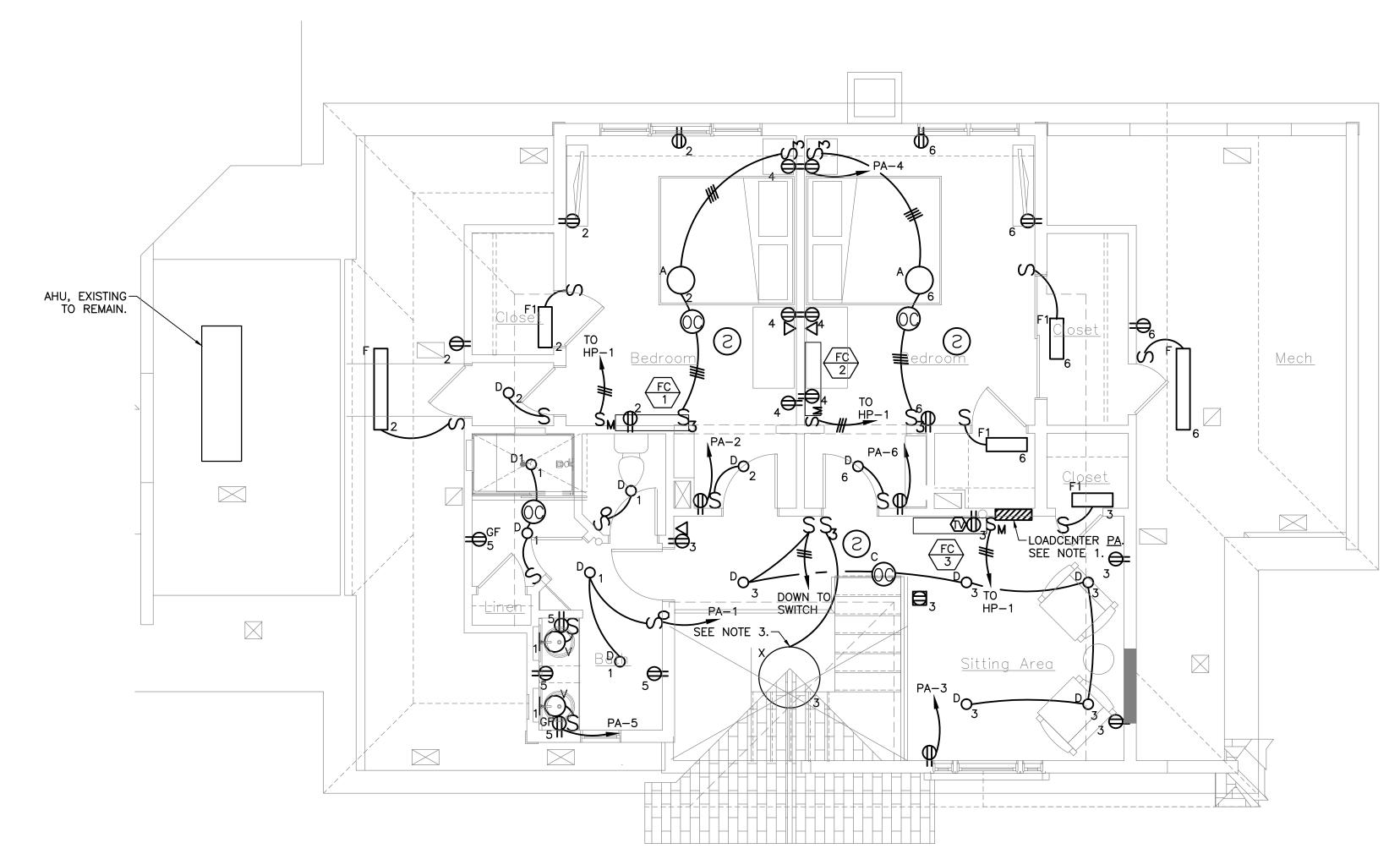
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1/2'=1'-0' SCALE

- 5







#### PROPOSED THIRD FLOOR PLAN SCALE: 1/4"=1'-0"

							<u> </u>
		•					
TYPE	MANUFACTURER	CATALOG NUMBER	LAMP TYPE	NO. OF LAMPS	INP VOLTS	UT WATTS	REMARKS
Α	SBA		LED	-	120		LED CEILING MOUNTED LIGHT, SBA.
В	SBA		LED	_	120	•	LED BATHROOM CEILING MOUNTED LIGHT, SBA.
D	LITON	LHFRLD609C35/ LRLDH642C	LED	_	120	9	LED 6" 700 LUMEN DOWN LIGHT.
D1	LITON	LHFRLD609C35/ LRLDH642C-WL	LED	-	120	9	LED 6" 700 LUMEN DOWN LIGHT, SUITABLE FOR WET LOCATIONS.
F	COLUMBIA	LCL4-35ML-EU	LED	-	120	48	4' 5000 LUMEN LED LENSED STRIP LIGHT.
F1	COLUMBIA	LBIL2-35MW-EU	LED	_	120	21	2' 2000 LUMEN LED LENSED STRIP LIGHT WITH INTEGRAL OCCUPANCY SENSOR, WALL MOUNTED ABOVE DOOR.
X	EXISTING			_	120		EXISTING CHANDELIER
٧	SBA		LED	_	120	•	LED VANITY LIGHT, SBA, WALL MOUNTED ABOVE VANITY MIRROR.

#### **SPECIFICATIONS**

- WIRING DEVICES SHALL BE SPECIFICATION GRADE, 20A, WITH SMOOTH PLASTIC DEVICE PLATES AS MANUFACTURED BY LEGRAND. COLOR AS SBA.
- 2. ALL RECEPTACLES SHALL BE TAMPER RESISTANT. OUTDOOR SHALL BE WR. WP RECEPTACLES SHALL HAVE METALLIC COVERS RATED WEATHERPROOF WHILE IN USE. RECEPTACLES IN BATHS SHALL BE DECORA STYLE TO MATCH
- GF RECEPTACLES. 4. CONDUCTORS AND CABLE SHALL BE MINIMUM #12 AWG, 600V., COPPER WITH TYPE THWN-THHN INSULATION. PROVIDE SEPARATE GREEN GROUND IN ALL FEEDERS. WIRE SHALL BE STRANDED. COLOR CODE CONDUCTORS BLACK, RED, BLUE, WITH WHITE NEUTRAL AND GREEN GROUND EXCEPT AS NOTED FOR 120 VOLT.
- 4.1. NEC TYPE MC: UL 1569, WITH FULL SIZE GROUNDING CONDUCTOR, AND STEEL OR ALUMINUM INTERLOCKED ARMOR SHEATH. MC CABLE SHALL BE USED IN CONCEALED LOCATIONS ONLY.
- 4.2. NEC TYPE NM-B: UL 719, WITH GROUNDING CONDUCTOR. USE FOR GENERAL PURPOSE BRANCH CIRCUIT WIRING THROUGHOUT, EXCEPT WHERE OTHER 8. WIRING METHODS ARE REQUIRED ELSEWHERE IN THIS SPECIFICATION OR BY CODE.
- BOXES UL LISTED NEMA OS1, WITH MARKED VOLUME. SIZE BOXES IN ACCORDANCE WITH VOLUME REQUIREMENTS
- 6. OUTLET BOXES SHALL BE SPECIFICALLY DESIGNED FOR THE CONSTRUCTION ENCOUNTERED, WITH SUITABLE SUPPORTS AND ATTACHMENTS.
- 6.1. OUTLET BOXES SHALL BE NON-METALLIC, IN GANGS AND CONFIGURATIONS TO SUIT THE APPLICATION, WITH SUITABLE WIRE/CABLE CLAMPS AS REQUIRED. OUTLET 9. BOXES SHALL BE FLUSH MOUNTED IN ALL FINISHED AREAS. CEILING OUTLET BOXES SHALL BE LISTED AND RATED FOR SUPPORT OF LIGHT FIXTURES UP TO 50 POUNDS. OUTLET BOXES SHALL BE REINFORCED FIBERGLASS AS MANUFACTURED BY ALLIED MOULDED, RIGID THERMOPLASTIC AS MANUFACTURED BY CARLON ("SUPERBLUE"), OR REINFORCED PHENOLIC AS MANUFACTURED BY UNION, STEEL CITY.
- 6.2. SURFACE MOUNTED OUTLET BOXES SHALL BE SPECIFICALLY DESIGNED FOR THE CONSTRUCTION ENCOUNTERED, WITH SUITABLE SUPPORTS AND

- ATTACHMENTS. OUTLET BOXES SHALL BE METALLIC, IN GANGS AND CONFIGURATIONS TO SUIT THE APPLICATION. OUTLET BOXES MAY BE SURFACE MOUNTED IN UNFINISHED AREAS.
- 6.3. FLOOR BOXES: UL LISTED, CAST IRON, WATER TIGHT CONSTRUCTION FOR ANY GRADE APPLICATION, WITH SCREW ANCHORAGE FLANGES AT EACH CORNER.
- 6.4. FLOOR BOX COVER PLATE: FLIP LID, PIN HINGED, 1/4 INCH (6 MM) THICK, FABRICATED FOR SEAMLESS ATTACHMENT TO FLOOR BOX WITH SCREWS OF SAME MATERIAL AS COVER PLATE. MATERIAL: BRASS LOADCENTERS SHALL BE PLUG-ON CIRCUIT BREAKER TYPE WITH COPPER LOAD, NEUTRAL AND GROUND BUS. MINIMUM INTERRUPTING CAPACITY SHALL BE 10,000 AMPS SYMMETRICAL AT 240 VOLTS. PROVIDED WITH NEMA 1 ENCLOSURE WITH LOCKING DOOR. LOADCENTER AND BREAKERS SHALL BE SQUARE D QO TYPE. PROVIDE TYPED IDENTIFICATION DIRECTORY IN LOADCENTERS INDICATING CIRCUIT FUNCTION OR EQUIPMENT SERVED.
- MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED: 8.1. LOADCENTERS -6'-6'' FROM FLOOR TO TOP.
- 8.2. LIGHT SWITCHES & LIGHTING CONTROLS 4'-0" FROM FLOOR TO CENTERLINE. 8.3. LIGHTING FIXTURES — SEE LTG. FIXTURE SCHEDULE. 8.4. CONVENIENCE RECEPTACLE - 1'-6" FROM FLOOR TO

CENTERLINE, UNO.

8.5. TELEPHONE & CABLE TV OUTLETS - 1'-6" FROM FLOOR TO CENTERLINE, UNO BY ARCHITECT. PROVIDE ALL GROUNDING AND BONDING AS REQUIRED BY THE MEC. GREEN EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED IN ALL RACEWAYS.

PANE	L NO.	PAL	LOADCENTER SCHEDULE									
		120/240 volts 1 ph w	/_ <b>3</b> G <sub>f</sub>	#	MAIN CB	MLC	D BUS 100A MIN. AIC 10	<b>)K</b> syn	MM.			
CKT NO.	TRIP AMPS	DESCRIPTION OF LOAD	LOAD (KVA)	PER A	PHASE B	LOAD (KVA)	DESCRIPTION OF LOAD	TRIP AMPS	CK NO			
1	20/1	BATHROOM LIGHTING & FAN		•		•	BEDROOM LIGHTING AND RECEPT	20/1	2			
3	20/1	SITTING AREA LIGHTING AND RECEPT		•		٠	BEDROOM RECEPT	20/1	4			
5	20/1	BATHROOM RECEPTACLE		•		•	BEDROOM LIGHTING AND RECEPT	20/1	6			
7	20/1	SPARE		•		•	SPARE	20/1	8			
9	20/1	SPARE		•		•	SPARE	20/1	10			
11	20/1	SPARE		•		•	SPARE	20/1	12			
11	20/1	SPARE		•			SPARE	20/1	12			

NOTE: ALL 20A/1P CIRCUIT BREAKERS SHALL BY AFCI TYPE.

	BRANCH CIRCUIT AND FEEDER SCHEDULE									
	INDICATES NOMINAL AMPACITY INDICATES QUANTITY OF PHASE AND/OR NEUTRAL CONDUCTORS									
NOM.	QTY. OF	PHASE AND/OR NEUTRAL	RACEWAY SIZE							
AMPACITY	COND.	CONDUCTORS AND GROUND	EMT	RGS						
	2	(2)#12 & 1#12 GND.	3/4"	3/4"						
20	3	(3)#12 & 1#12 GND.	3/4"	3/4"						
	4	(4)#12 & 1#12 GND.	3/4"	3/4"						
	2	(2)#10 & 1#10 GND.	3/4"	3/4"						
30	3	(3)#10 & 1#10 GND.	3/4"	3/4"						
	4	(4)#10 & 1#10 GND.	3/4"	3/4"						
	2	(2)#8 & 1#10 GND.	3/4"	3/4"						
40	3	(3)#8 & 1#10 GND.	3/4"	3/4"						
	4	(4)#8 & 1#10 GND.	3/4"	3/4"						
	2	(2)#8 & 1#10 GND.	3/4"	3/4"						
50	3	(3)#8 & 1#10 GND.	3/4"	3/4"						
	4	(4)#8 & 1#10 GND.	3/4"	3/4"						
	2	(2)#6 & 1#10 GND.	3/4"	3/4"						
60	3	(3)#6 & 1#10 GND.	3/4"	3/4"						
	4	(4)#6 & 1#10 GND.	1"	1"						
	2	(2)#4 & 1#8 GND.	1"	1"						
70	3	(3)#4 & 1#8 GND.	1"	1"						
	4	(4)#4 & 1#8 GND.	1 1/4"	1 1/4"						
	2	(2)#3 & 1#8 GND.	1"	1"						
100	3	(3)#3 & 1#8 GND.	1"	1"						
	4	(4)#3 & 1#8 GND.	1 1/4"	1 1/4"						

NOTES -1. RACEWAY SIZE BASED ON EMT/RGS TYPE THWN COPPER CONDUCTORS. ADJUST AS REQUIRED FOR OTHER RACEWAY OR CONDUCTOR TYPES. 2. BASED ON 75°C TERMINATIONS. ADJUST FOR OTHER TERMINATION

TEMPERATURE LIMITATIONS AS REQUIRED.

# NANGLE ENGINEERING INCORPORATED

32 Prince Street Danvers, MA 01923 Tel. (978) 777-7650 www.nangleengineering.com

<u>LEGEND</u>

LIGHT FIXTURES ARE INDICATED BY VARIOUS SYMBOLS ON THE PLANS, WITH A CAPITAL "TYPE" LETTER AT EACH REFER TO FLOOR PLANS AND LIGHT FIXTURE SCHEDULE.

BATHROOM FAN, BY MC.

20 AMPERE, 120/277 VOLT, SINGLE POLE SWITCH

20 AMPERE, 120/277 VOLT, THREE WAY SWITCH

120 VOLT, OCCUPANCY SENSOR WALL SWITCH WITH USER ADJUSTABLE 1-20 MINUTES TIMEOUT

120 VOLT DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR WITH 360° FIELD OF VIEW AND MINIMUM 1200SF COVERAGE

NEMA 5-20R DUPLEX RECEPTACLE, TR FLOOR MOUNTED NEMA 5-20R

DUPLEX RECEPTACLE VOICE OUTLET JACK, (1) RJ45 WITH CAT 5 CABLE TO NIC IN BASEMENT

CABLE TV OUTLET, (1) TYPE F CONNECTOR WITH RG6/U CABLE TO NIC IN BASEMENT MOTOR, NUMERAL INDICATES HP, F INDICATES FRACTIONAL HP

MANUAL MOTOR STARTER, W/OL PROTECTION 20 AMP, 3 POLE, UNO FUSED DISCONNECT, 60 AMP FRAME, 40 AMP TRIP, 2 POLE, UNO

LOADCENTER, AS SCHEDULED. HOMERUN TO PANEL 'P', CIRCUITS AND 3. CIRCUIT WIRING AS BELOW.

CIRCUIT WIRING. NO HASHES

INDICATES (2)#12AWG, (1)#12AWG GND, (1)3/4"C. QTY. OF HASHES INDICATES QTY. OF WIRES IF MORE THAN 2 PLUS GND. SMOKE DETECTOR, PHOTO TYPE UNO

'C' DENOTES COMBINATION SMOKE/CARBON MONOXIDE DETECTOR

LINEWEIGHT DENOTES EXISTING

**EQUIPMENT TAG** 

LINEWEIGHT DENOTES PROPOSED

#### **ABBREVIATIONS**

AFCI ARC-FAULT CIRCUIT INTERRUPTING AFF ABOVE FINISH FLOOR AHU AIR HANDLING UNIT AWG AMERICAN WIRE GAUGE CONDUIT

CIRCUIT BREAKER CP CIRCULATOR PUMP COPPER EF EXHAUST FAN

FBO FURNISHED BY OWNER FC FAN COIL UNIT G,GND GROUND GC GENERAL CONTRACTOR

GROUND FAULT CIRCUIT INTERRUPTING HP HORSE POWER, HEAT PUMP KVA KILOVOLT AMPERE LED LIGHT EMITTING DIODE

MC METAL CLAD, MECHANICAL CONTRACTOR

MEC MASSACHUSETTS ELECTRIC CODE MIN MINIMUM MTD MOUNTED

NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NETWORK INTERFACE POLE(S) Р

PHASE(S) QTY QUANTITY SBA SELECTED BY ARCHITECT SBO SELECTED BY OWNER TR TAMPER RESISTANT TYP TYPICAL UNDERWRITERS LABORATORY

UNO UNLESS NOTED OTHERWISE VOLT(S) VOLT AMPERE WIRE WATER HEATER

WEATHER RESISTANT

WEATHERPROOF

ZONE PUMP

#### **GENERAL NOTES**

1. ALL WORK SHALL COMPLY COMPLETELY WITH THE MASSACHUSETTS ELECTRICAL CODE, AND ALL LOCAL ORDINANCES AND REQUIREMENTS. 2. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC. PROVIDE ALL MATERIAL, LABOR AND EQUIPMENT FOR COMPLETE AND OPERATIONAL

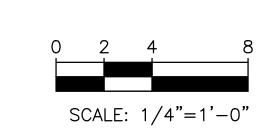
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- SYSTEMS. 3. APPLY FOR, OBTAIN AND PAY FOR ALL REQUIRED PERMITS. REQUEST, SCHEDULE, AND ATTEND ALL REQUIRED INSPECTIONS BY THE LOCAL
- AUTHORITY HAVING JURISDICTION. 4. REFER TO DRAWINGS OF OTHER TRADES AND CONFIRM EQUIPMENT LOCATIONS PRIOR TO ROUGH-IN. ADJUST ELECTRICAL WORK AS REQUIRED BASED ON EQUIPMENT PURCHASED/INSTALLED.
- 5. PROVIDE A ONE YEAR MATERIAL AND LABOR GUARANTEE AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP. 6. ALL MATERIAL INCORPORATED IN THE WORK SHALL BE LISTED FOR
- THE INTENDED USE. 7. VISIT THE SITE PRIOR TO SUBMITTING BID TO REVIEW SCOPE OF NOSTALDED. AND CONDITIONS UNDER WHICH NEW WORK MUST BE

# 1. PROVIDE #8/3 TYPE MC CABLE FROM NEW 40A/2P CIRCUIT

- BREAKER AT PANEL P1/P2 TO SERVE NEW ATTIC LOADCENTER PA. 2. CONNECT NEW SMOKE DETECTORS AND COMBINATION SMOKE/CARBON MONOXIDE DETECTORS TO EXISTING SECURITY/ALARM SYSTEM. NEW DEVICES SHALL BE LISTED COMPATIBLE WITH ADT SAFEWATCH PRO 3000EN SECURITY/ALARM SYSTEM. PROVIDE ALL REQUIRED WIRING AND APPURTENANCES REQUIRED FOR A COMPLETE, OPERATIONAL SYSTEM.
- 3. DISCONNECT, REMOVE AND SAFELY STORE EXISTING CHANDELIER TO ALLOW NEW CONSTRUCTION. RE-LAMP AND RE-INSTALL CHANDELIER AS INDICATED.



**GIENAPP** DESIGN

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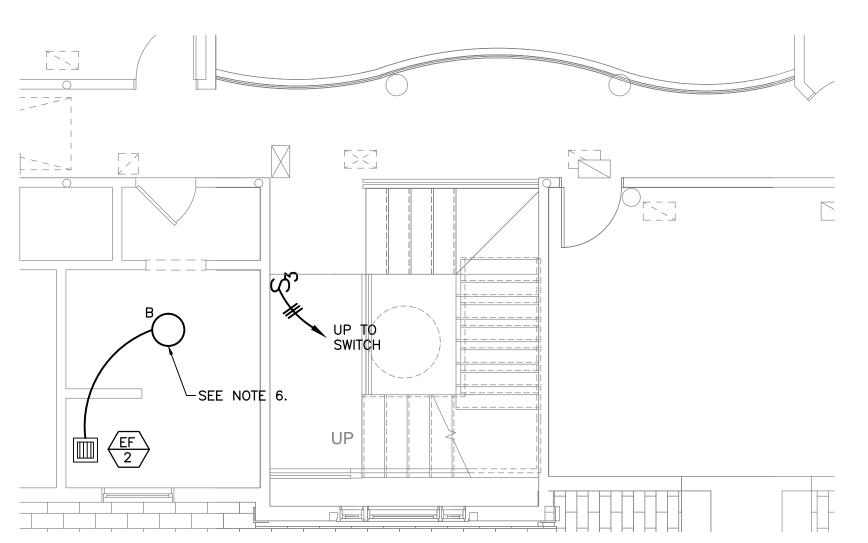
Project: 622.1

Drawn by: CWN Check by: GPN Date: 1/17/17 Scale: 1/4" = 1'-0"

**ELECTRICAL** LEGEND, NOTES AND PLANS

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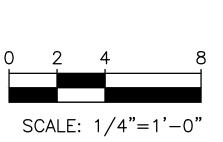
SECOND FLOOR PART PLAN
SCALE: 1/4"=1'-0"

#### <u>NOTES:</u>

- REFER TO DRAWING E-1 FOR LEGEND AND GENERAL NOTES.
   REARRANGE CIRCUIT BREAKERS TO PROVIDE 2 ADJACENT SPACES. PROVIDE (3)40A/2P CIRCUIT BREAKER IN SPACES IN LOADCENTER P1 & P2 TO SERVE NEW ATTIC LOADCENTER PA, WH-1 AND HP-1. NEW CIRCUIT BREAKERS SHALL BE LISTED COMPATIBLE WITH EXISTING SIEMENS LOADCENTERS.
- 3. DISCONNECT AND MAKE SAFE EXISTING SECOND FLOOR ZONE PUMP TO BE REPLACED BY MC. CONNECT NEW ZONE PUMP ZP-1 TO EXISTING CIRCUIT.
- EXTEND EXISTING ZONE PUMP BRANCH CIRCUIT TO POWER NEW HOT WATER CIRCULATOR PUMP CP-1.
- 5. WIRING FROM HP-1 TO FC-1, FC-2 & FC-3 SHALL BE MC CABLE FOLLOWING THE ROUTE OF THE PIPING BY MC.
- COORDINATE WORK WITH MC.

  6. DISCONNECT AND MAKE SAFE EXISTING BATH FAN TO BE REMOVED BY MC. RETAIN BRANCH CIRCUIT WIRING FOR REUSE. PROVIDE NEW JUNCTION BOX AND LIGHT AT LOCATION OF FORMER FAN. EXTEND EXISTING FAN WIRING TO NEW FAN. FAN AND LIGHT TO
- BE CONTROLLED BY EXISTING SWITCHING/CONTROLS.

  7. DISCONNECT AND MAKE SAFE EXISTING AHU IN ATTIC TO ALLOW RELOCATION BY MC. EXTEND BRANCH CIRCUIT WIRE AND CONDUIT TO NEW LOCATION AND RECONNECT UNIT VIA EXISTING SWITCH.



(I) GIENAPP

DESIGN

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Renovation

P

Westwood, MA

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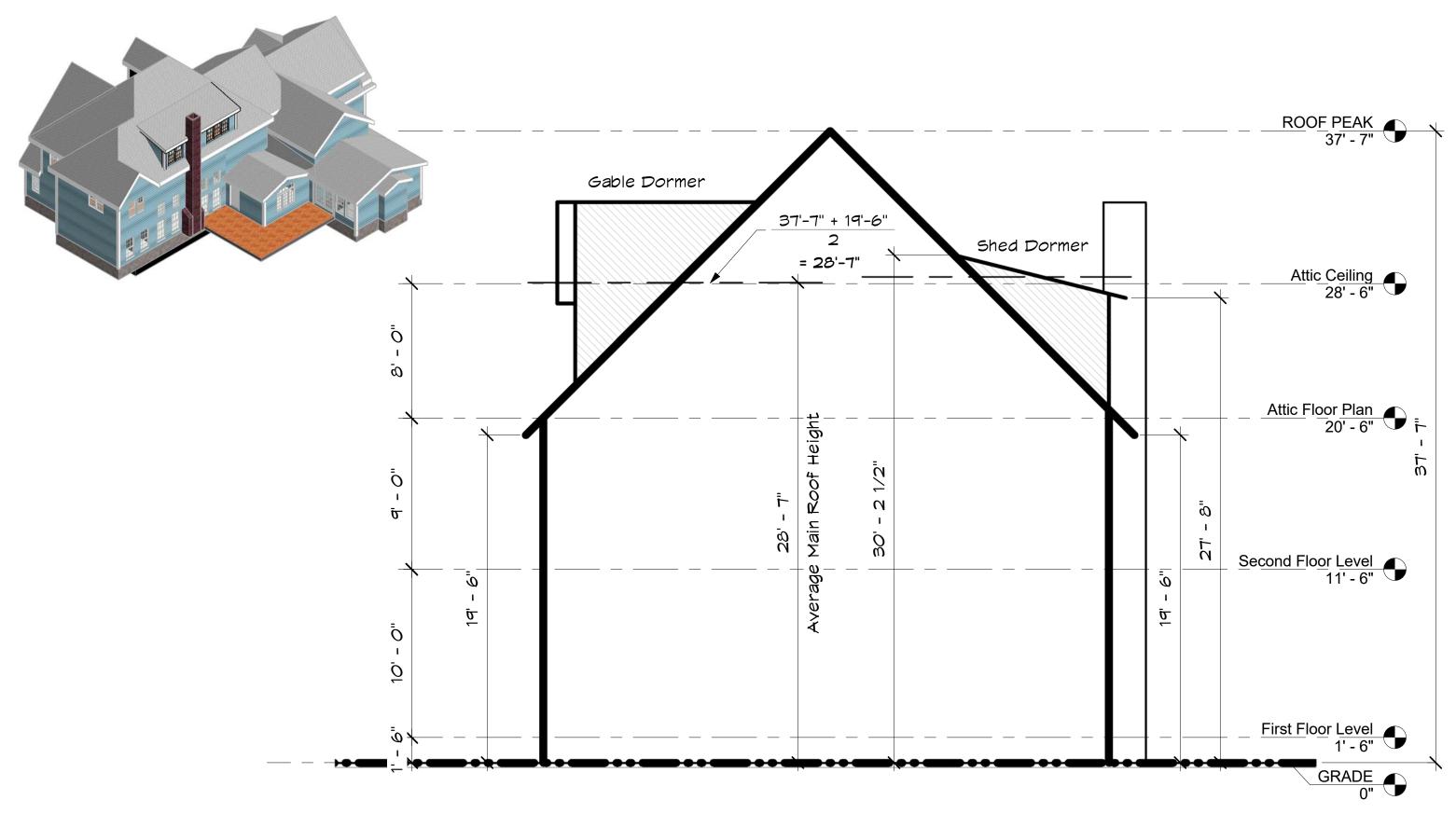
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Date: 1/17/17

Scale: 1/4" = 1'-0"

ELECTRICAL PART PLANS

E-2



**House Section** 

2 Section Through House 3/16" = 1'-0"

10 Cardinal Drive, Westwood, MA