New Hampshire
Residential Energy Code Application
Town of Sutton

for Certification of Compliance for New Construction, Additions and/or Renovations
to be submitted with completed building permit

(EC-1 Form)

Minimum Provisions

Effective Date: April 1, 2010

Owner/Owner Builder: Company Name: (if applicable)			**General Contractor:** Company Name:		
Name: Joshua & Meghan Longacre			Name: Kelleher Contruction, Inc		
Mail Address: 1264 Route 12A			Mail Address: 21 Nancy's Way		
Town/City: Plainfield	State: NH	Zip: 03781	Town/City: Enfield	State: NH	Zip: 03748
Phone: 603-306-2275	Cell: 603-306-2275		Phone: 603-252-0416	Cell: 603-252-0416	
E-Mail: joshlongacre@hotmail.com			E-Mail: gsrotor@aol.com		

Location of Proposed Structure:

Tax Map #: 000255 Lot #: 000017

Street: 11 Center of Town Road

Town/City: Plainfield County: Sullivan

Zone 5: Cheshire, Hillsborough, Rockingham or Strafford

Zone 6: All other Counties

Type of Construction:

● **Residential** ○ **Small Commercial**

● New Building ○ Renovation ○ Addition

○ Thermally Isolated Sunroom

○ Modular Home: the site contractor must submit this form detailing supplementary rooms and Floor and/or Basement insulation unless the floor insulation is installed or provided by the manufacturer and no heated space is added.

Total New Conditioned* Floor Area:

5368 ft²

Heating System: (if new system is being installed)

Annual Fuel Use Efficiency (AFUE): _____ %

Fuel Type(s): ☐ Oil ☐ Natural Gas ☐ Propane (LP)

■ Electric ☐ Wood ☐ Other _____

Heating System Type: ☐ Hot Water ☐ Hot Air

☐ Stove ☐ Resistance ■ Heat Pump ☐ Geothermal

Basement or Crawl Space: (*a conditioned space is one being heated or cooled, containing un-insulated ducts or with a fixed opening into a conditioned space. Walls must be insulated)

Conditioned? ● Yes (Walls must be insulated) ○ No

☐ Full Basement ■ Walk Out Basement

☐ Slab on Grade ☐ Other _____

Structure is EXEMPT because:

☐ Mobile Home ☐ On an historic register

☐ Low energy use (less than 1 watt/ ft²)

Form Submitted by:

■ Owner ☐ Builder ☐ Designer ☐ Other _____

Architects must certify plans meet code; no form required

(revised 10/30/13)

I hereby certify that all the information contained in this application is true and correct, and construction shall comply in all respects with the terms and specifications of the approval given by the Public Utilities Commission and with the New Hampshire Code for Energy Conservation in New Building Construction.

Signature _____ **Print Name** Joshua Longacre / Meghan Longacre **Date** 5/6/2021

Owner/Builder

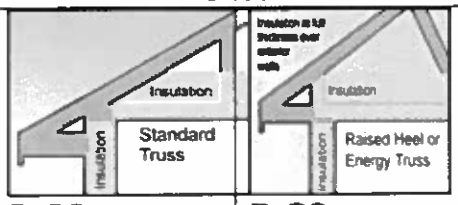
_____ 08-05-2021

Building Inspector Date Approved

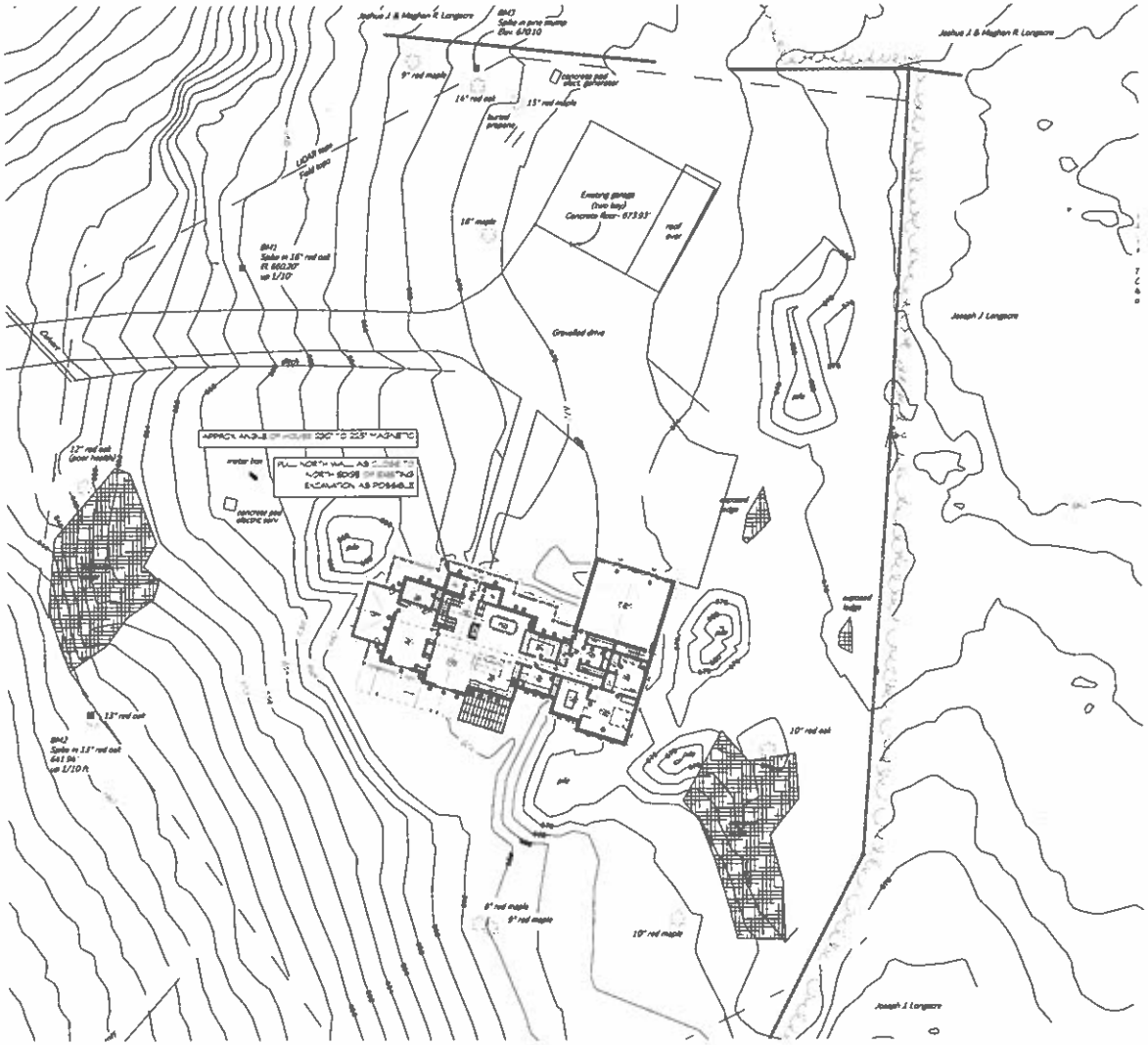
New Hampshire Energy Code EC-1

Directions: Complete the "Your Proposed Structure" columns. No measurements or calculations are needed. If you at least meet the New Hampshire Energy Code requirements, your project will be approved. Write N/A in any section that does not apply to your project. If your planned structure cannot meet these requirements, consider downloading REScheck from http://www.energycodes.gov/rescheck/download.stm and use trade-offs to prove compliance. **Submit pages 1 and 2 only.**

You are encouraged to build with higher R-values and lower U-values than you report here. The "Required R or U Values" are the worst permitted in NH.

Building Section	Required R or U Values	YOUR PROPOSED STRUCTURE: Write Planned R and U Values	YOUR PROPOSED STRUCTURE: Brands / Models / insulation type and thickness (if known)
Window U Factor (lower U is better)	**U .35** (maximum) **U-.32** (if log walls in Zone 5) **U-.30** (if log walls in Zone 6) **U .50** (Thermally Isolated Sunrooms only)	Write in U-Value .10	Check if ☐ **Sunroom** ☐ **Log Walls**
Skylights	**U .60**	N/A	
Flat Ceiling[i] *or* **Flat Ceiling with Raised or Energy Trusses R-value**	 **R-38** (Zone 5) **R-49** (Zone 6) if using the above construction technique **R-49** if log walls **R-30** (Zone 5) **R-38** (Zone 6) if maintaining the full R value over the plates **R-49** if log walls	Write in R-Value R-49 → If using only R-30 in Zone 5 or R-38 in Zone 6 you must check this box	NOTE: R-38 will be deemed to satisfy the requirement for R-49 if the full R-38 insulation value is maintained over the outside plates. **If using only R-30 (Zone 5) or R-38 (Zone 6), you must certify that you'll maintain R-38 over the plates by checking the box below.** ☐ ***By checking this box, I certify that this structure is being built with a raised energy truss or that the full R-value of the ceiling insulation will be maintained over the outside plates.***
Sloped or Cathedral Ceiling	**R-30** (Zone 5 & 6) or **38** if more than 500 ft sq or 20% of total ceiling area (Zone 6) **R-24** (Thermally Isolated Sunrooms only)	Write in R-Value R-57	Check if ☐ **Sunroom**
Above Grade Wall[ii] **R-value**	**R-20** Cavity Insulation only *or* **R-13** *plus* **R-5** Cavity *plus* Continuous Insulation **R-13** (Thermally Isolated Sunrooms only)	Write in R-Value R-27	Log homes must comply with ICC400-2012, have an average minimum wall thickness of 5" or greater with specific gravity of ≤0.5 or 7" with specific gravity >0.5. Check if ☐ **Sunroom** ☐ **Log Walls**
Door U-Value	**U .35** (maximum)	Write in U-Value .28	
Floor R Value (Basement ceiling)	**R-30** *or* Insulation sufficient to fill joist cavity	Write in R-Value R-30	If conditioning the basement you must insulate **Basement Walls.** If not, you may insulate either **Floor** or **Basement Walls** and/or **Slab Edge**
Basement or Crawl Space Wall R Value	**R-13** Cavity Insulation or **R-10** Continuous Insulation (Zone 5) **R-19** Cavity Insulation or **R-15** Continuous Insulation (Zone 6)	Write in R-Value R-15	
Slab Edge[iii] **R Value**	**R-10** **2'** (Zone 5) **4'** (Zone 6) (see drawing pg 3) *add* **R-5** if the Slab is heated or **R-15** under entire heated slab if a log home.	Write in R-Value R-10	Check if ☐ **Heated Slab**
Air Sealing	**Planned Air Sealing Test Method** There are two approaches to demonstrating compliance with air sealing requirements.	☐ Blower Door ☐ Visual Inspect	The visual inspection certification must be consistent with the requirements of Table 402.4.2 (page 4) and the method of compliance planned and approved by the local jurisdiction

Submit pages 1 and 2 to with competed building permit for approval by building inspector.



CHRISTOPHER
THOMAS ROSS

PO BOX 779
ENFIELD, NH 03748

WWW.CHRISTOPHERTHOMASROSS.COM

General Notes

1. All work shall conform to all state and applicable codes & ordinances.
2. No drawing is to be scaled; use dimensions only.
3. Dimensions are taken from face of masonry, concrete or wood stud framing members unless otherwise indicated.
4. Confirm all existing conditions before proceeding with the said work.
5. Items not noted, but implied as necessary for the performance of the contract, are considered part of the work.
6. All work is to be executed by mechanics skilled in their trade.
7. All trades will cooperate with each other to facilitate the progress of the entire job.
8. Contractor(s) is to protect the public and premises during the period of construction with adequate shoring, bracing, fencing, lighting, ventilation, etc.
9. All changes or substitutions are to be approved by the owner before being incorporated into the work.
10. Conform to all manufacturers instructions & specifications for the installation or use of all materials unless otherwise noted.
11. All exterior lumber & lumber in contact with masonry, concrete, or soil to be pressure treated or properly protected to avoid deterioration.

Issued

CONSTRUCTION DOCUMENTS
5/6/21

ISSUED FOR PRICING + REVIEW ONLY

FOUNDATION DRAWING	05/26/21
PRICING + REVIEW	06/06/21

Project

LONGACRE RESIDENCE

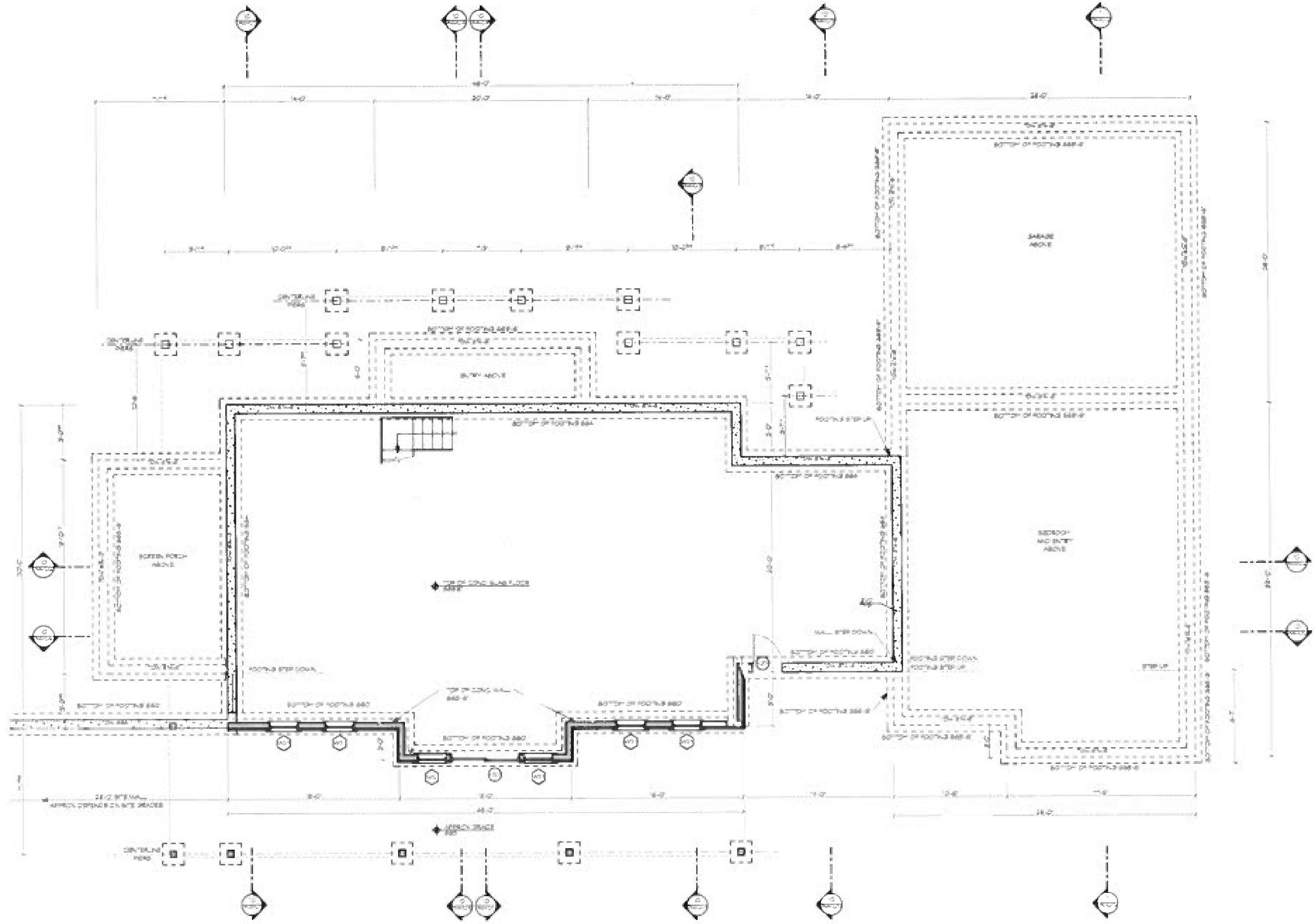
11 CENTER OF TOWN ROAD PLAINFIELD NH 03781 USA

Project No.: 20016

Sheet Title

SITE PLAN

A1-00



10 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

CHRISTOPHER THOMAS ROSS

General Notes

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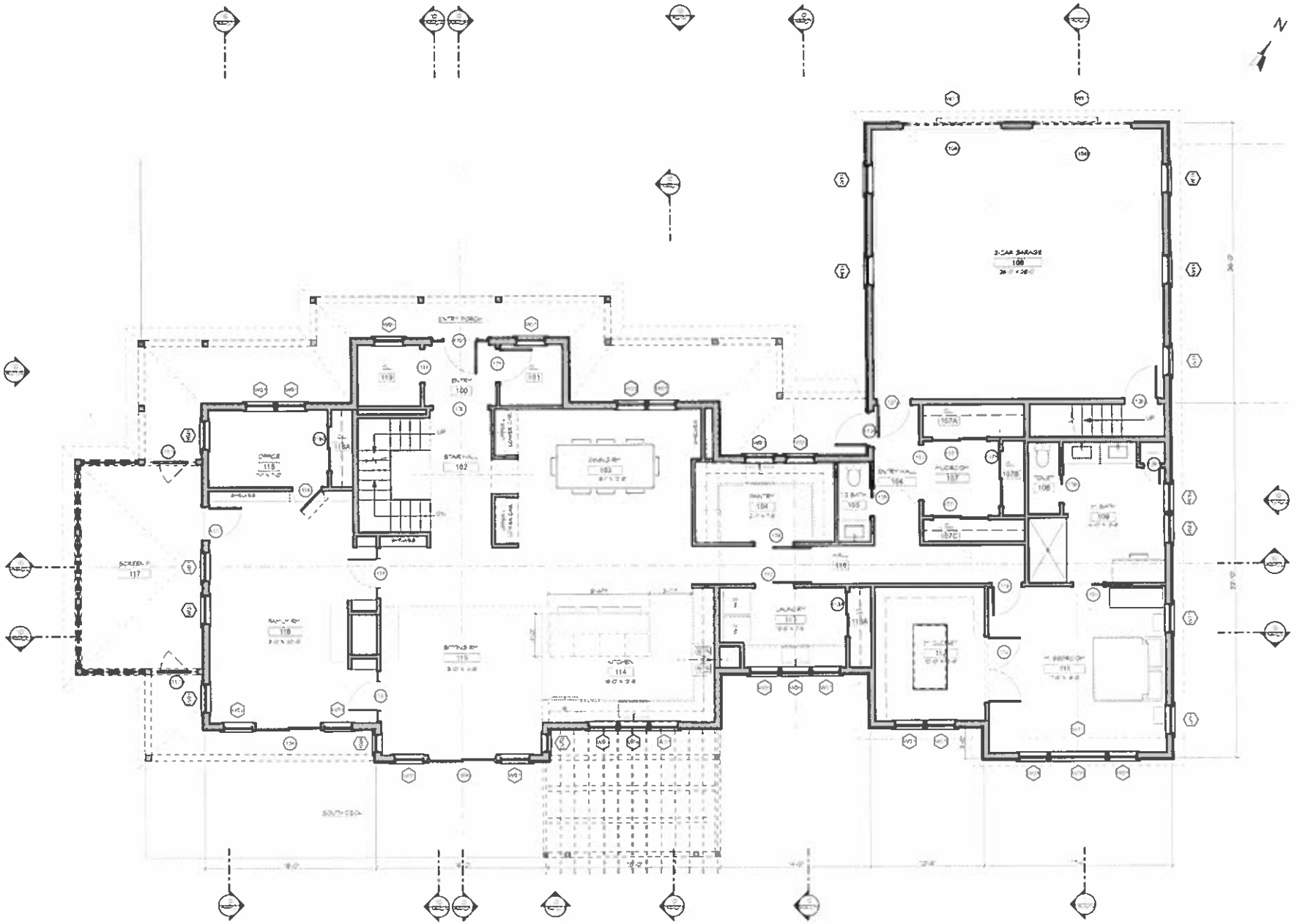
FOUNDATION PLAN

A1-00



10 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"

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Project

LONGACRE RESIDENCE

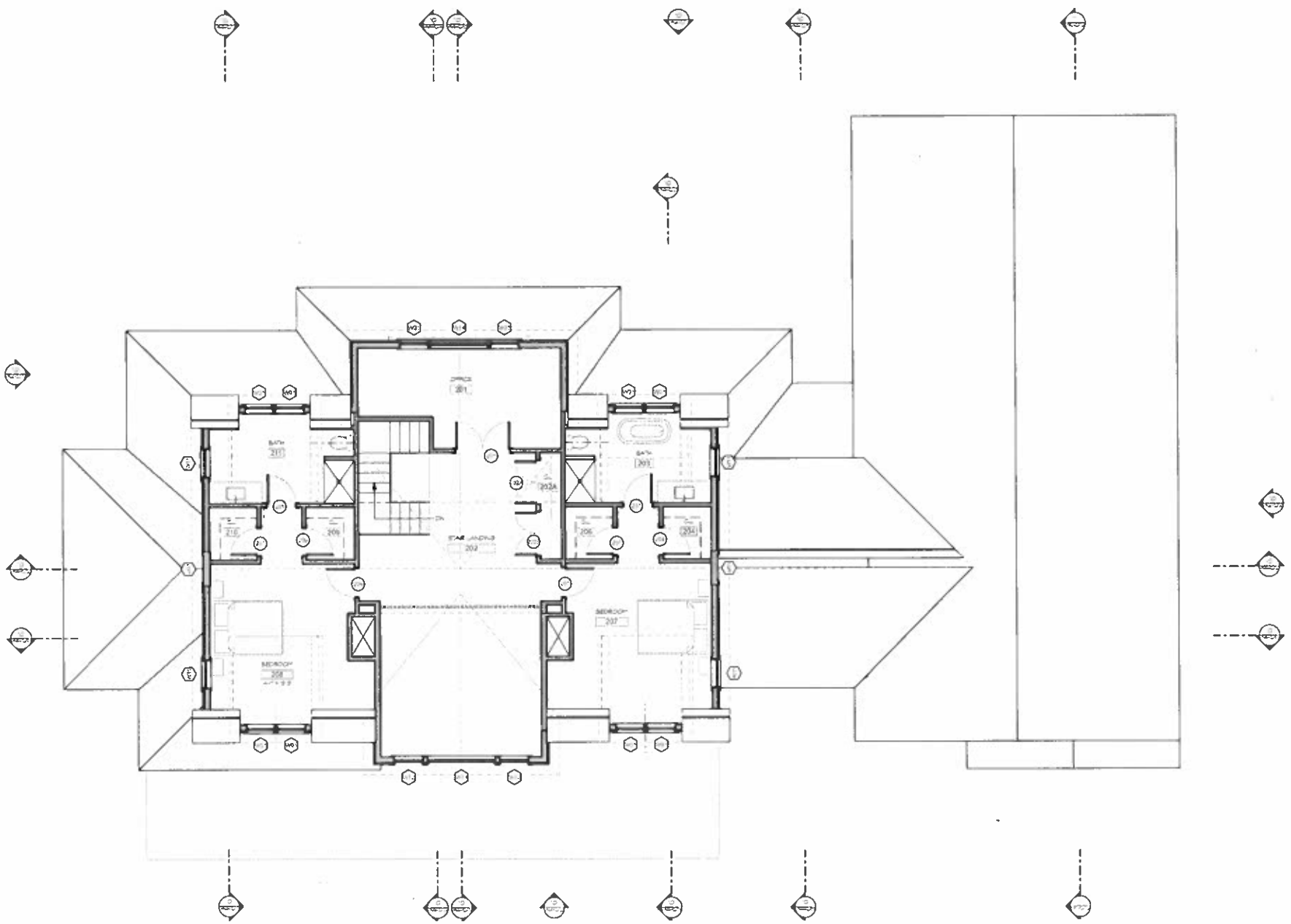
11 CENTER OF TOWN ROAD PLAINFIELD NH 03781 USA

Project No: 20010

Sheet Title

FIRST FLOOR PLAN

A1-02



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

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PO BOX 778
ENFIELD, NH 03748

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Project

LONGACRE RESIDENCE

11 CENTER OF TOWN ROAD PLAINFIELD
NH 03781 USA

Project No : 20018

Sheet Title

SECOND FLOOR PLAN

A1-03