

SITE PLAN
S. 1" = 20'-0"

TATKO RESIDENCE

1751 E. HINES HILL RD.
HUDSON, OH 44236

SITE PLAN

DATE: 2021-08-26 LAYOUT EXISTING
2021-11-02 A/RB SUBMISSION

11-2-21

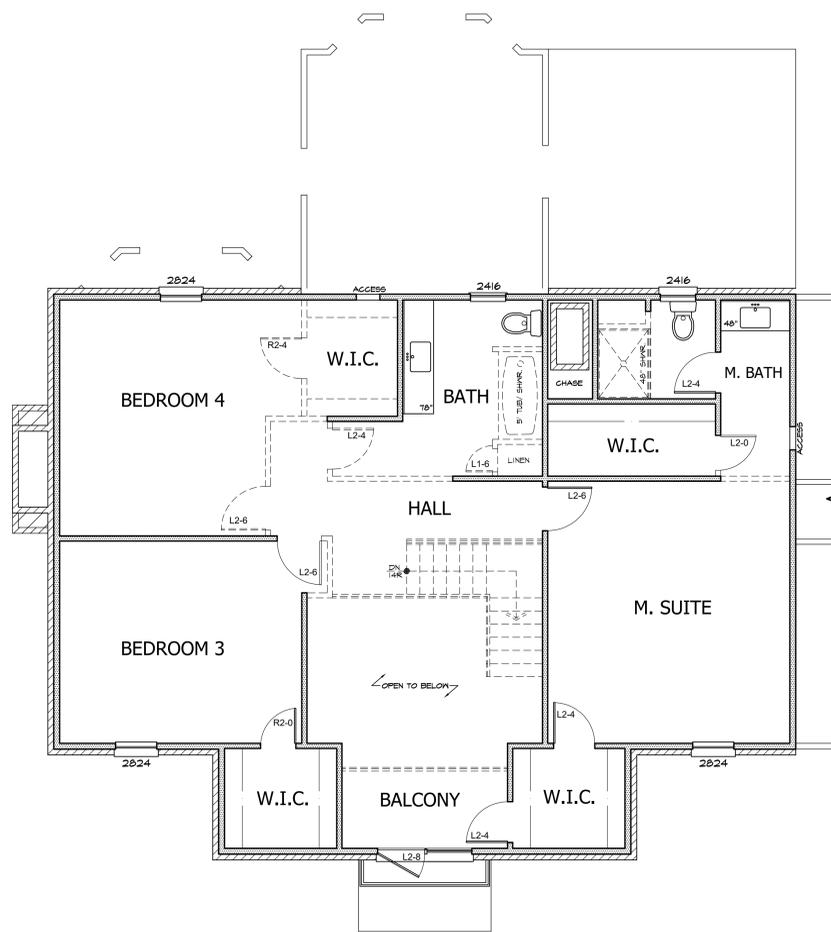
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JOB # 2021-49

S101

CONTACT:
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4302 John Avenue
Cleveland, Ohio 44113
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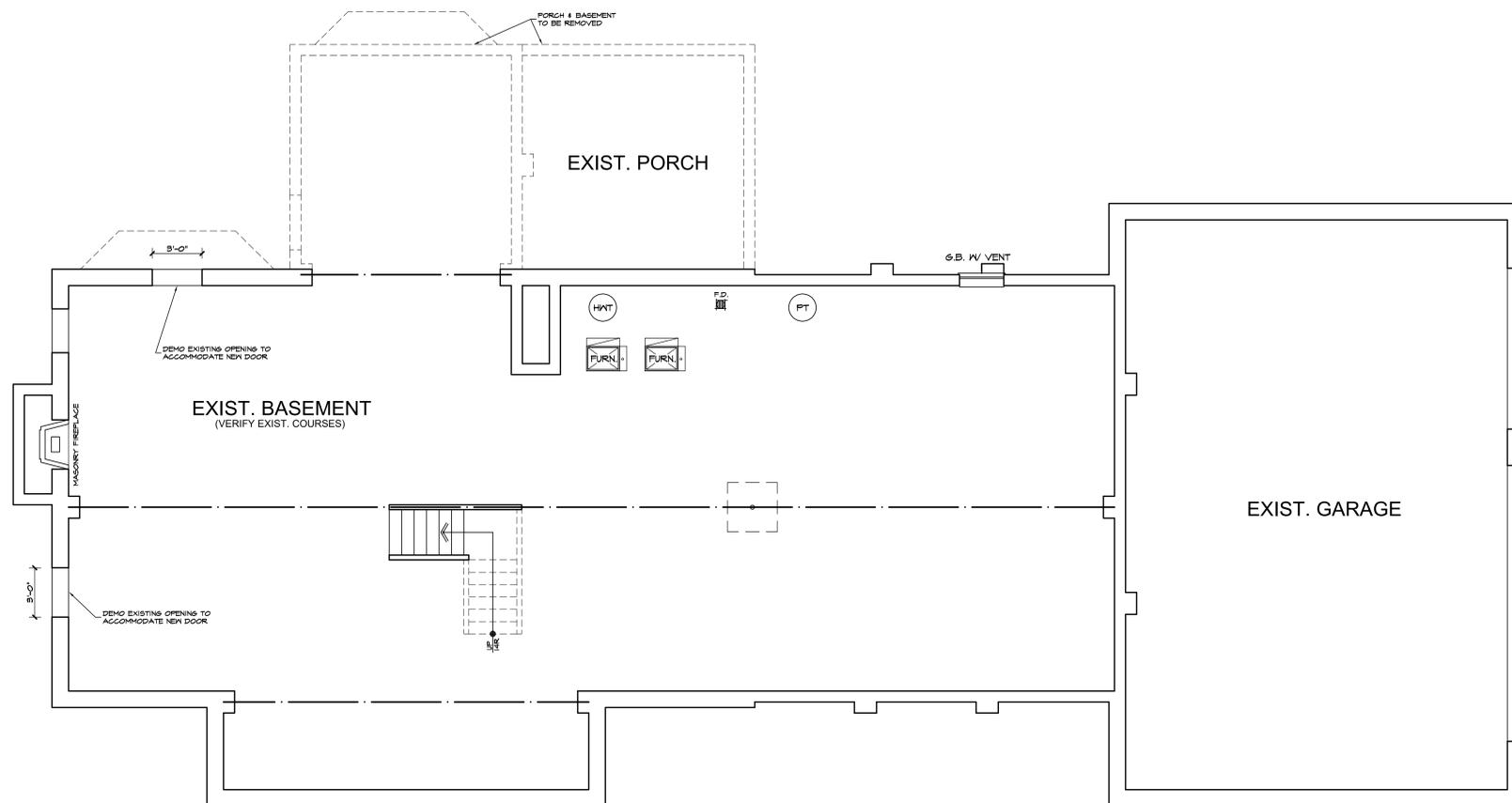




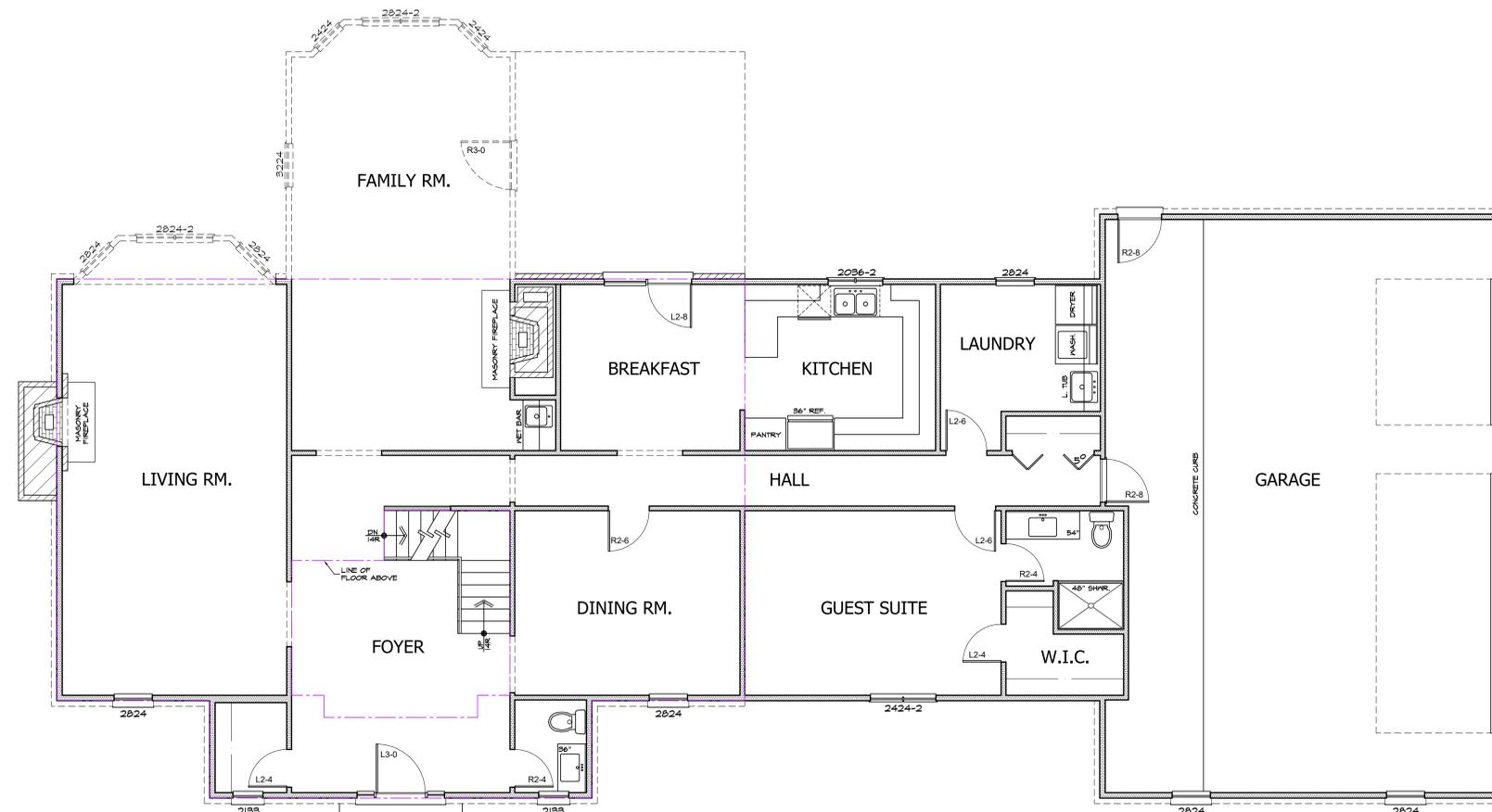
SECOND FLOOR PLAN - EXISTING
S: 1/4" = 1'-0"

SECOND FLOOR DEMO NOTES

- 1) SEE PLANS FOR WALLS TO BE REMOVED
- 2) ALL DRYWALL (WALLS & CEILINGS) TO BE REMOVED
- 3) ALL EXTERIOR BRICK TO BE REMOVED
- 4) EXISTING ROOF TO BE REMOVED



FOUNDATION PLAN - EXISTING
S: 1/4" = 1'-0"



FIRST FLOOR PLAN - EXISTING
S: 1/4" = 1'-0"

FIRST FLOOR DEMO NOTES

- 1) ALL INTERIOR WALLS & STAIRS TO BE REMOVED
- 2) FAMILY ROOM EXTERIOR WALLS & LIVING ROOM BAY WALLS TO BE REMOVED
- 3) ALL EXTERIOR BRICK VENEER TO BE REMOVED
- 4) EXTERIOR ROOF TO BE REMOVED

FOUNDATION NOTES

Reference sections 1061.3 and chapter 44 of the Residential Code of Ohio

GENERAL:

- 2x8 PRESSURE TREATED SILL PLATE WITH SILL SEALER
- 1/2" x 18" ANCHOR BOLTS @ 6'-0" o.c. AND 12" MAXIMUM FROM CORNERS AND WITH A MIN. OF 2 BOLTS PER PLATE PER RCO SECTION 403.1.6.
- EXTERIOR FOUNDATION INSULATION AS REQUIRED.
- R-19 BATT INSULATION BETWEEN FLOOR JOIST CAVITIES AT RIM.

FOOTINGS:

- ALL FOOTINGS SHALL EXTEND BELOW THE MINIMUM FROST LINE DEPTH OF 42" PER RCO SECTION 402.2.
- (2)#4 REBAR CONTINUOUS THRU WALL FOOTERS.
- ALL 8" BLOCK OR POURED CONCRETE WALLS SHALL HAVE A MINIMUM 8"x16" CONTINUOUS POURED CONCRETE FOOTING.
- ALL 12" BLOCK OR POURED CONCRETE WALLS SHALL HAVE A MINIMUM 8"x20" CONTINUOUS POURED CONCRETE FOOTING.
- ALL CONCRETE LINTELS AT FOOTING LEVEL CHANGES SHALL HAVE A MINIMUM OF 8" BEARING AT EACH END.
- CENTER ALL FOOTINGS ON COLUMN CENTER LINES. REINFORCE EACH WAY AS FOLLOWS:
 - 24"x24".....(2)#4
 - 30"x30".....(3)#4
 - 36"x36".....(3)#4
 - 42"x42".....(4)#4
 - 48"x48".....(5)#4
 - 60"x60".....(5)#5
 - 72"x72".....(6)#5

CRAWL SPACE VENTILATION:

CRAWL SPACE EXTERIOR VENTILATION OPENINGS MAY BE OMITTED WHEN CONTINUOUSLY OPERATED MECHANICAL VENTILATION IS PROVIDED AT A RATE OF 1.0 cfm FOR EACH 50 SQUARE FEET OF CRAWL SPACE FLOOR AREA.

POINT LOADS:

IT IS THE RESPONSIBILITY OF THE BUILDER AND/OR OWNER TO VERIFY THAT ALL POINT LOADS TRANSFER TO THE FOUNDATION OR SPECIFIED BEARING LOCATIONS.

SEE SHEET C101 FOR GEN. CODE REQUIREMENTS, DISCLAIMERS AND GENERAL CONSTRUCTION NOTES

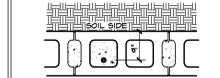
STEEL BEAM CHART

SIZE	DEPTH	WIDTH
W8x15	8 1/8"	4"
W10x22	10 1/8"	5 3/4"
W12x26	12 1/4"	6 1/2"
W12x45	12"	8"

NOTE: DIMENSIONS ARE DERIVED FROM AISC STEEL MANUAL. VERIFY WITH STEEL DISTRIBUTOR.

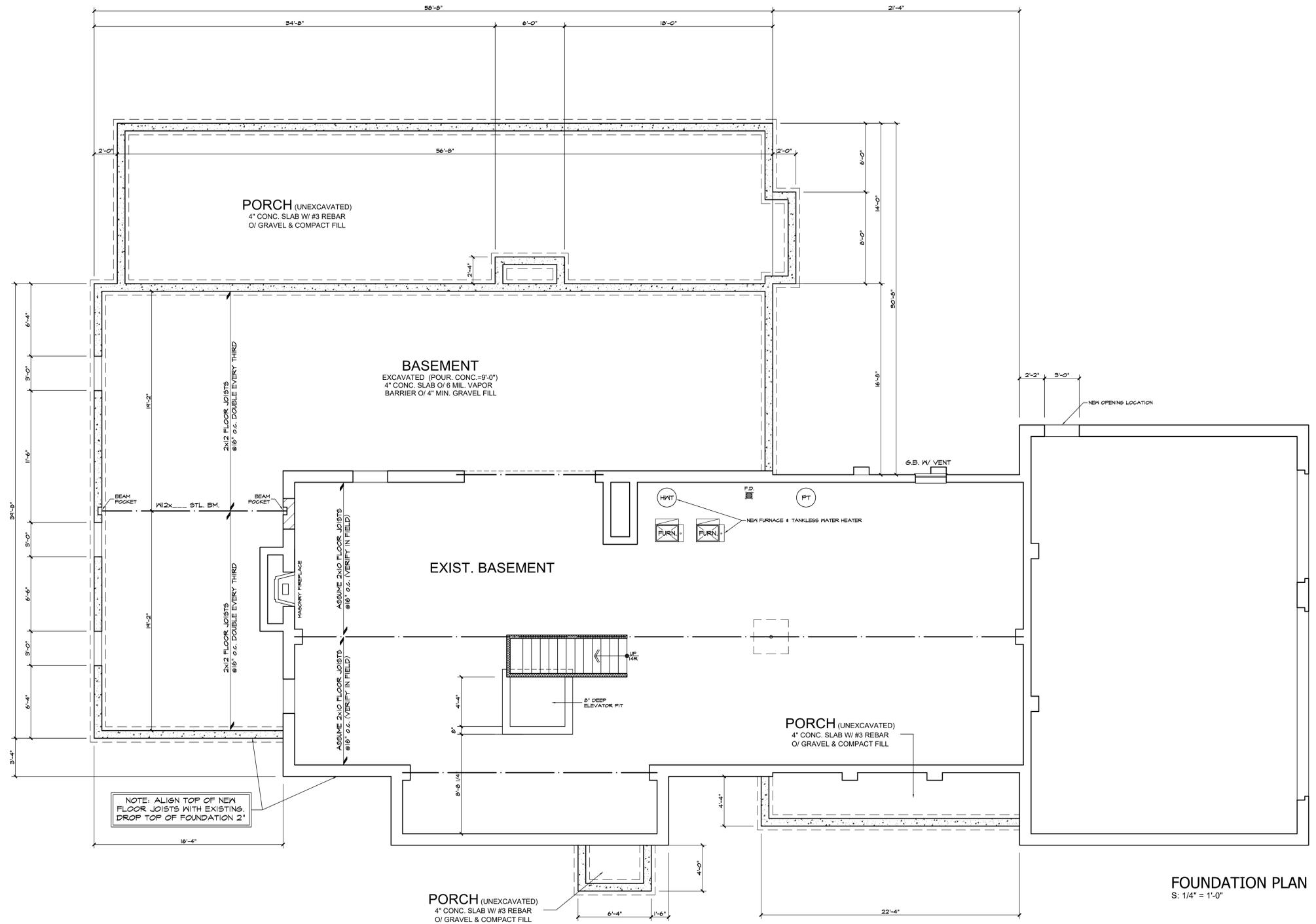
12" CONC. BLOCK REINFORCING DETAIL

MASONRY WALL REINFORCEMENT:
 (1)#5 @ 48" o.c.
 - 24" MAX. FROM CORNERS
 - BARS 9" IN FROM SOIL SIDE
 - GROUT CORES FULL-HEIGHT
 - SOLID AT REINFORCING BARS



DESIGN CRITERIA:
 -36" MINIMUM GRAVEL FILL
 -MAX. LATERAL SOIL PRESSURE OF 35 psf
 -1500 psf SOIL BEARING PRESSURE
 -MIN. 3000 psi CONCRETE STRENGTH
 -REINFORCING YIELD STRENGTH OF 60,000 psi

NOTE: THIS DETAIL IS ASSUMING BEST CASE SOIL CONDITIONS FOR MEDIUM OR WORST CASE REFER TO RCO TABLE 404.1.1(4)



FOUNDATION PLAN
 S: 1/4" = 1'-0"

LOWER LEVEL NOTES

Reference sections 1061.3 and chapter 44 of the Residential Code of Ohio

GENERAL:

- ALL WALLS ARE DIMENSIONED STUD-TO-STUD.
- ALL INTERIOR WALLS ARE 3 1/2", EXTERIOR WALLS ARE 4" UNLESS OTHERWISE NOTED.
- ALL ANGLED WALLS ARE 45° UNLESS OTHERWISE NOTED.
- SEE PLANS FOR HEADERS IN ALL OPENINGS FOR EXTERIOR AND LOAD BEARING WALLS.
- ALL FLOOR JOISTS SHALL BE CROWNED BEFORE PLACEMENT.
- ALL POSTS (■) SHALL BE A MINIMUM OF (3)2x4's OR (2)2x6's UNLESS NOTED OTHERWISE & DEPENDENT ON WALL THICKNESS
- POINT LOADS ARE REPRESENTED BY (●)

SMOKE & CARBON DETECTORS:

ALL SMOKE & CARBON DETECTORS SHALL BE HARDWIRED & INTERCONNECTED WITH A BATTERY BACK-UP. THEY SHALL BE INSTALLED IN EACH SLEEPING ROOM, OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS AND ON EACH ADDITIONAL STORY OF THE BUILDING PER RCO SECTIONS 314.3 AND 315.1.

FIREPLACES:

ALL CHIMNEYS AND FIREPLACES SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF 2013 RCO AND INSTALLED PER THE ORDINANCES SET FORTH THE BY THE LOCAL GOVERNING BUILDING AND ZONING DEPARTMENTS. IT IS THE RESPONSIBILITY OF THE BUILDER AND/OR OWNER TO VERIFY THE ROUGH-OPENING DIMENSIONS FOR ALL PRE-FAB FIREPLACES WITH THE ACTUAL UNIT TO BE INSTALLED, PRIOR TO FRAMING.

WINDOWS:

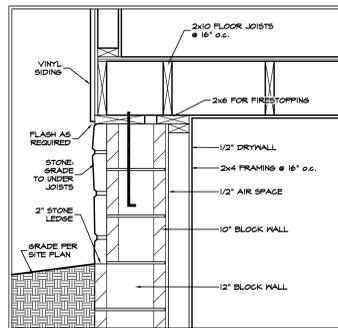
ALL WINDOWS AND SIZES ARE DRAWN NOMINAL INCHES.
 WINDOWS WITHIN 60" OF STANDING OR WALKING SURFACE OF A TUB, SHOWER, HOT TUB OR WHIRLPOOL MUST BE TEMPERED.
 WINDOWS WITH SILLS LOWER THAN 18" MUST BE TEMPERED.

EGRESS REQUIREMENTS:
 MAXIMUM SILL HEIGHT ABOVE FLOOR.....44"
 MINIMUM NET CLEAR OPENING HEIGHT.....24"
 MINIMUM NET CLEAR OPENING WIDTH.....20"
 MINIMUM NET CLEAR OPENING SQUARE FEET.....5.7
 MINIMUM NET CLEAR OPENING SQ. FT. GRADE LEVEL.....5.0
 REMOVAL OF SASH MAY NOT BE USED TO OBTAIN CLEAR OPNG.

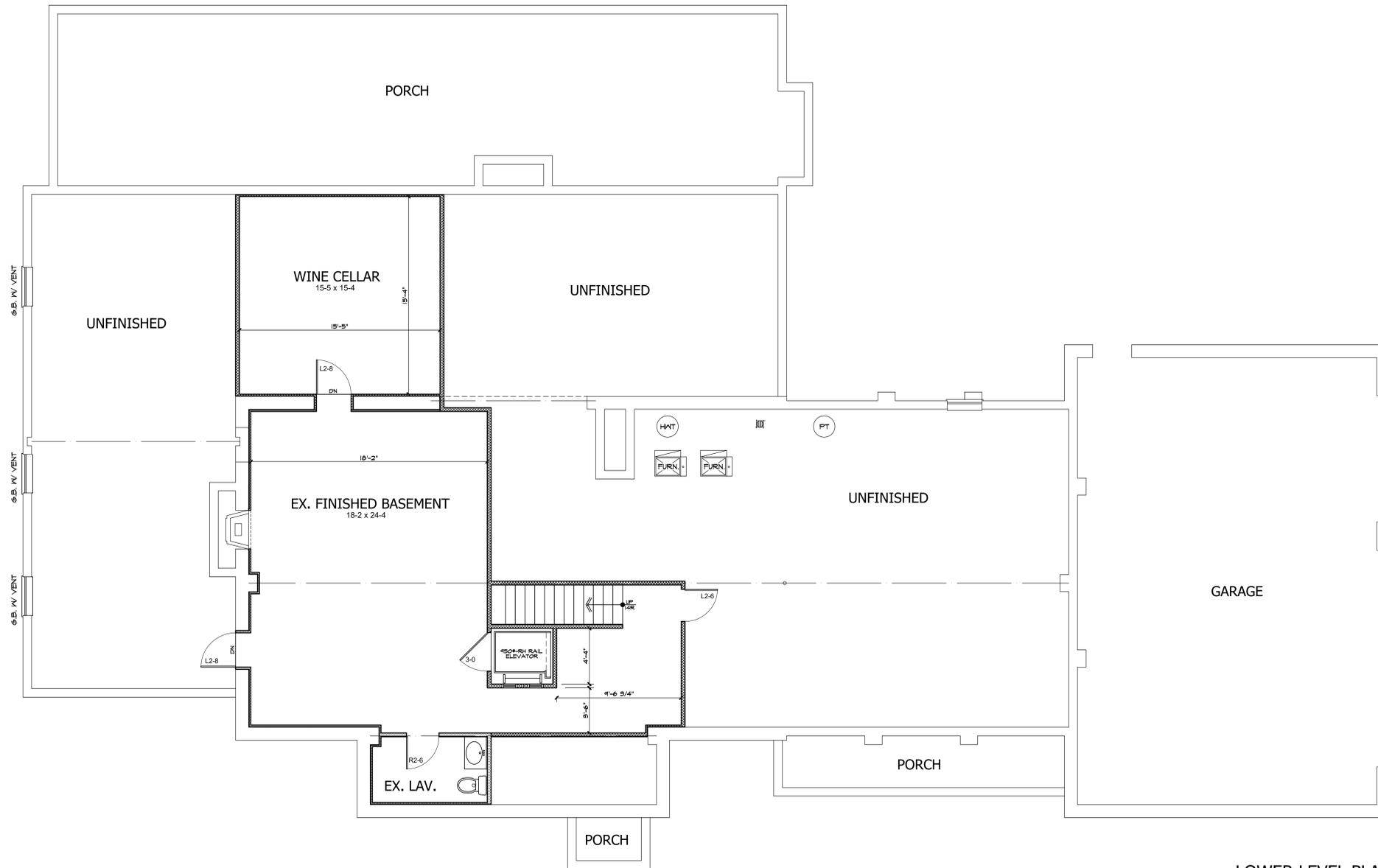
STAIR REQUIREMENTS:

MINI. STAIR WIDTH EXCLUDING WALL HANDRAIL.....3'-0"
 MINIMUM TREAD DEPTH.....9"
 MAXIMUM RISER HEIGHT.....8 1/4"
 MAXIMUM VARIANCE IN RISER HEIGHT.....3/8"
 MINIMUM NOSING PROJECTION.....1"
 MINIMUM HEADROOM HEIGHT AT STAIR ANGLE.....6'-8"
 MINIMUM / MAXIMUM HANDRAIL HEIGHT.....34" / 38"
 MAXIMUM BALUSTER SPACING (CLEAR OPENING).....<4"
 MINIMUM GUARDRAIL HEIGHT AT STAIRS.....34"
 MINIMUM GUARDRAIL HEIGHT AT DECKS & BALCONIES.....36"
 MAXIMUM HAND GRIP WIDTH.....2 1/4"
 MINIMUM DISTANCE BETWEEN WALL AND HANDRAIL.....1 1/2"

SEE SHEET C101 FOR GEN. CODE REQUIREMENTS, DISCLAIMERS AND GENERAL CONSTRUCTION NOTES



FIN. BASEMENT & STONE TO GRADE
 S: 1" = 1'-0"



LOWER LEVEL PLAN
 S: 1/4" = 1'-0"

FIRST FLOOR NOTES

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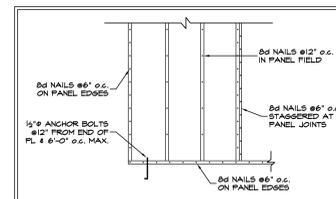
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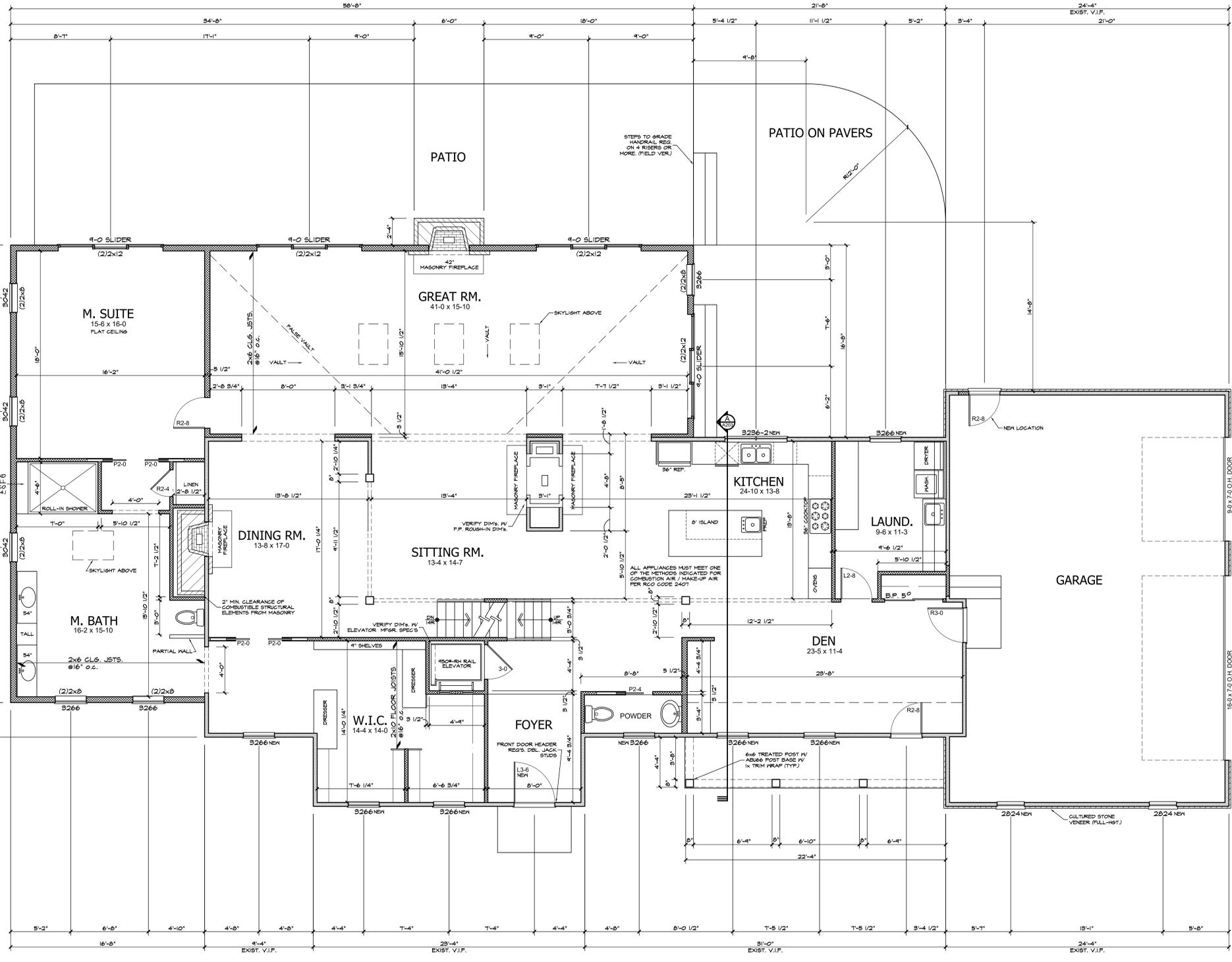
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METHOD CS-WSP (602.10.4)
- THIS IS FOR ALL EXTERIOR WALLS OF THE HOME U.N.O.
- EXTERIOR BRACED WALLS ARE ALL TO ALL BE CONTINUOUSLY SHEATHED WITH MIN 7/8" OSB OR PLYWOOD PER CODE.
- ATTACH PER TABLE 602.3(3)
- CONTINUOUSLY SHEATH PER SECTION 602.10.4.2
- MIN. PANEL LENGTHS PER TABLE 602.10.5
- PER TABLE 602.10.1.3 BRACED WALL LINE SPACING 60 FT. MAX WITH 3:1 DIAPHRAGM WIDTH TO DEPTH RATIO

BRACED WALL PANELS (NOT TO SCALE)



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

FIRST FLOOR:	3182.02	S.F.
SECOND FLOOR:	1208.46	S.F.
TOTAL SQ. FEET:	4390.48	S.F.



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JOB # 2021-49

SECOND FLOOR NOTES

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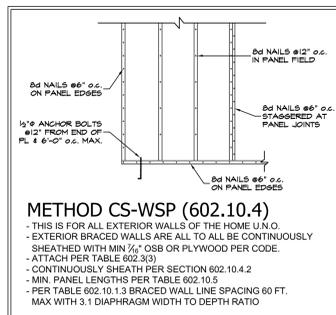
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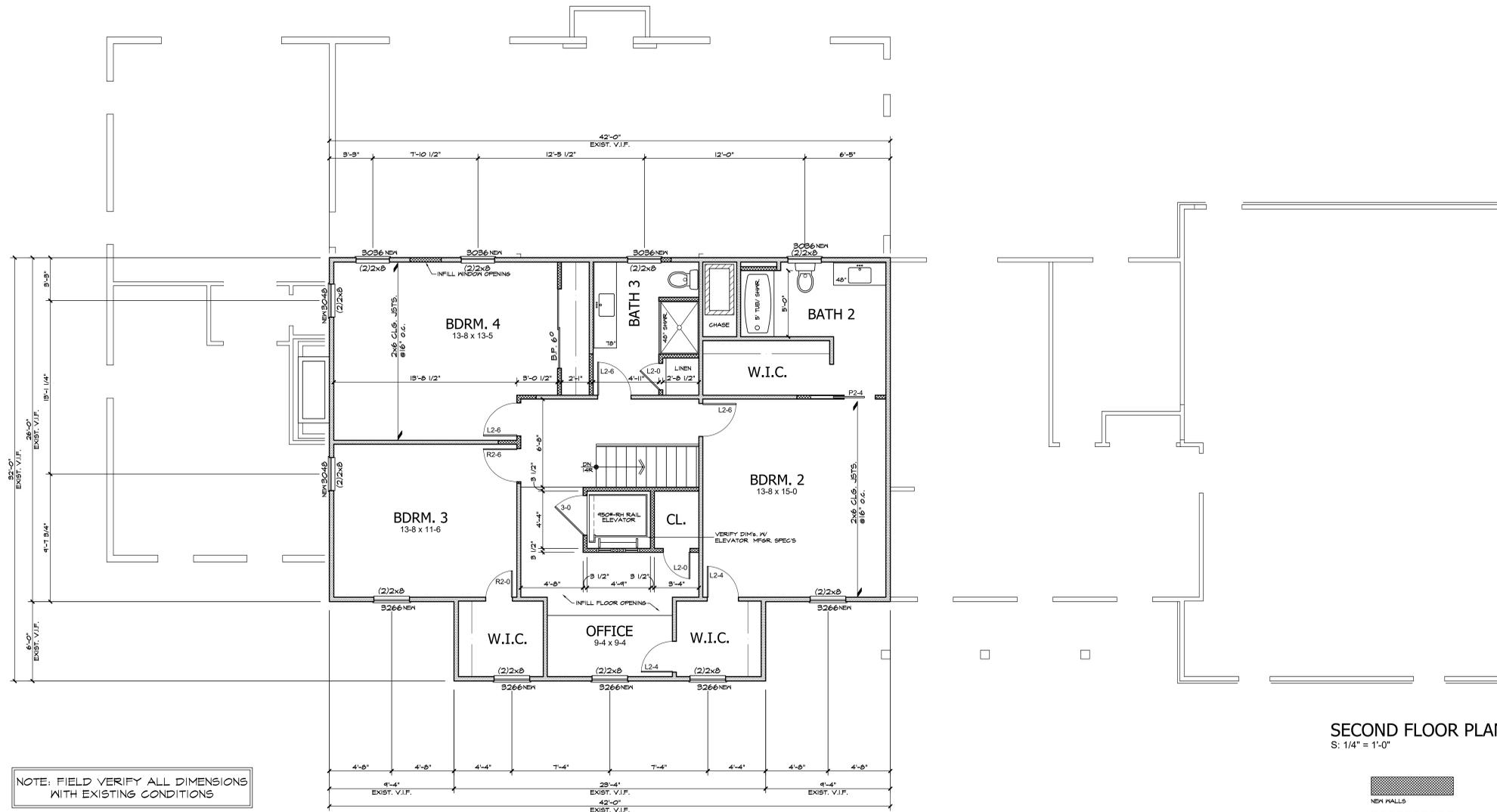
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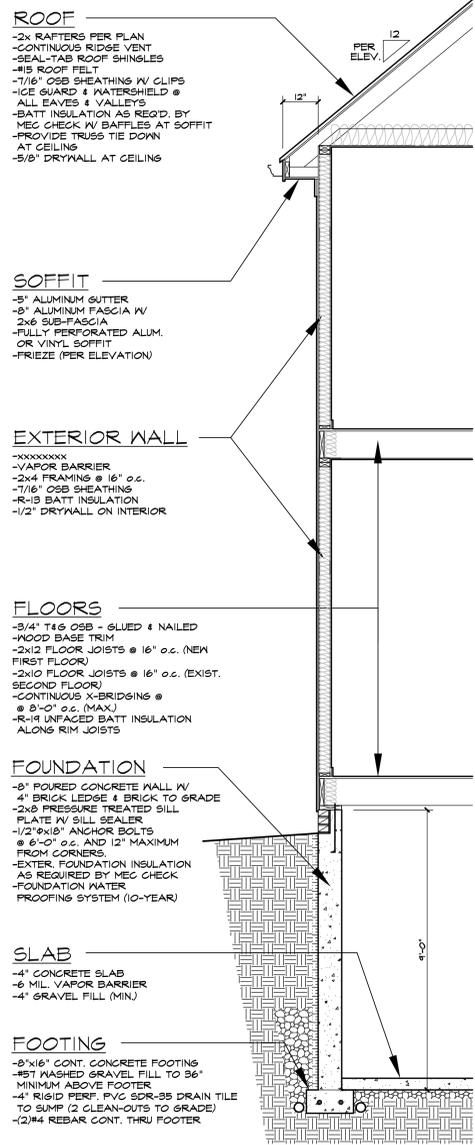
BRACED WALL PANELS (NOT TO SCALE)



NOTE: FIELD VERIFY ALL DIMENSIONS WITH EXISTING CONDITIONS

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





TYPICAL WALL SECTION
SCALE: 1/2" = 1'-0"
NOTE: SOME ITEMS DRAWN IN THIS TYPICAL WALL SECTION ARE DIAGNOSTIC AND NOT NECESSARILY TO THE EXACT SCALE OR PITCH. PLEASE REFER TO TYPED NOTES ALONG SIDE 4 TYPED DIMENSIONS.

ROOF NOTES

Reference sections 1061.3 and chapter 44 of the Residential Code of Ohio

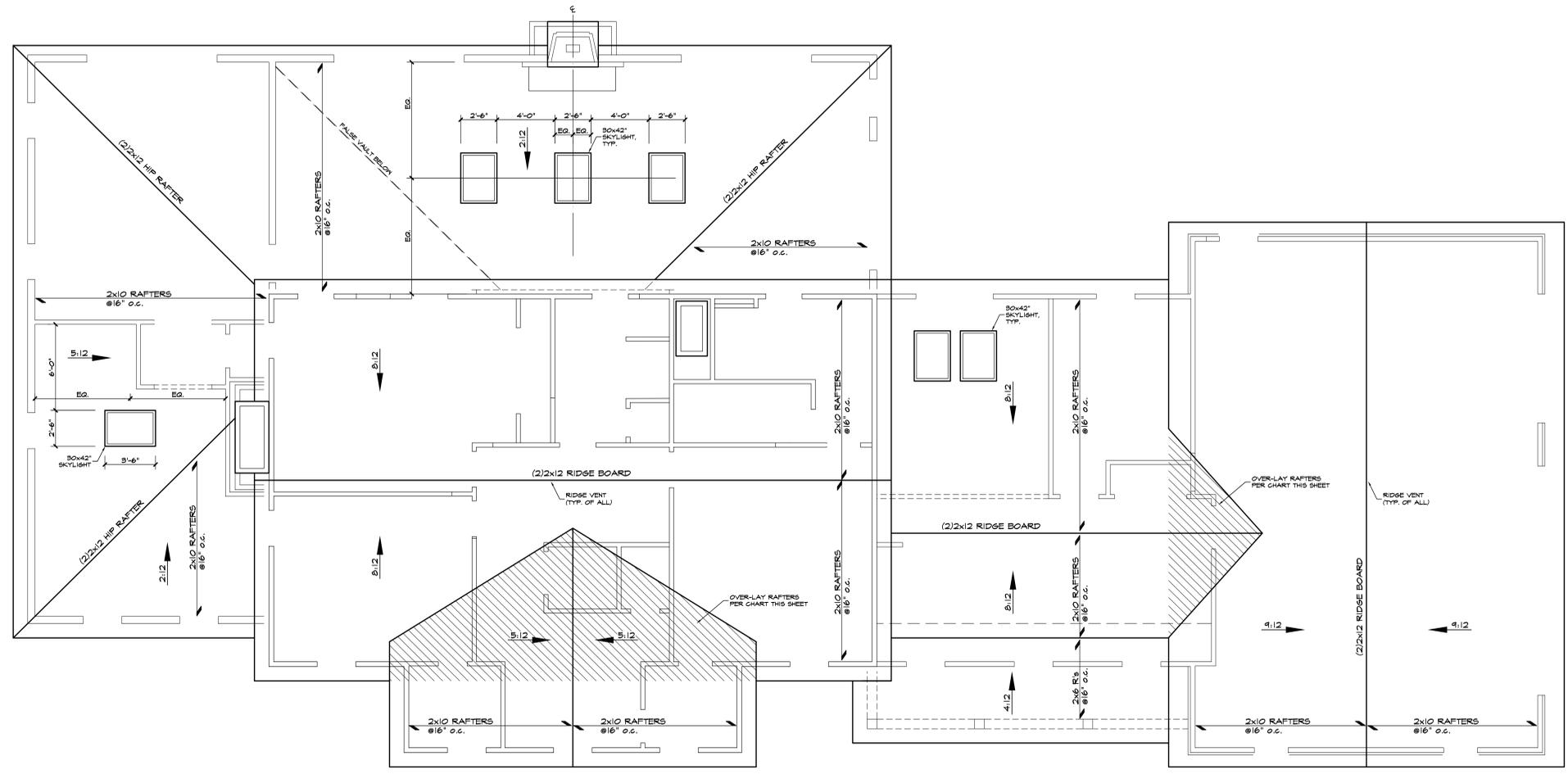
- SHINGLES:**
ROOF SHINGLES SHALL BE APPLIED OVER A MINIMUM OF ONE PLY OF #15 FELT. FELT SHALL BE LAID PARALLEL TO THE EAVES, WITH A 2" TOP LAP AND 4" END LAP. MINIMUM ROOF SLOPE NO LESS THAN 1/4" / FT. ICE GUARD AND WATERSHIELD AT ALL EAVES AND VALLEYS. ICE GUARD SHALL BE INSTALLED A MINIMUM OF 24" MEASURED FROM THE INSIDE OF THE EXTERIOR WALL PER RCO SECTION 905.2.7.2.
- ATTICS:**
ALL ENCLOSED ATTICS AND RAFTER SPACES SHALL HAVE CROSS VENTILATION WITH THE NET FREE VENTILATING AREA NOT LESS THAN 1/300 OF THE AREA TO BE VENTILATED. ALL OPENINGS SHALL BE PROTECTED AGAINST THE ENTRANCE OF SNOW AND RAIN.
- SHEATHING:**
EXTERIOR WALLS & ROOF SHALL BE CONTINUOUSLY SHEATHED WITH MIN. 5/8" OSB OR PLYWOOD PER SECTION R602.10. NAILED W/ 8d NAILS AT 6" o.c. AT ALL PANEL EDGES AND 12" o.c. AT INTERMEDIATE SUPPORTS

- TRUSSES:**
ALL TRUSSES ARE TO BE DESIGNED BY THE TRUSS MANUFACTURER WITH DETAILED DRAWINGS DESCRIBING TRUSS LAYOUTS AND LOAD CALCULATIONS USED TO DESIGN THE TRUSSES. IT IS THE BUILDER AND/OR OWNERS RESPONSIBILITY TO SUPPLY ANY/OR ALL OF THIS INFORMATION IF REQUESTED BY THE BUILDING DEPARTMENT TO ISSUE BUILDING PERMITS. IT IS ALSO THE RESPONSIBILITY OF THE TRUSS MANUFACTURER TO VERIFY, AND IF NECESSARY, ADJUST THE SIZE OF OR ADD ANY BEAM OR HEADER THAT IS DIRECTLY EFFECTED OR REQUIRED TO CARRY THE ROOF LOADS. IN THIS EVENT, THE TRUSS MANUFACTURER SHALL CONTACT J. KAPELA DESIGNS, INC. IN ORDER TO UPDATE THE DRAWINGS.
- OVER-LAY RAFTERS:**
USE 2x4's @24" o.c. FOR SPANS UP TO.....6'-0"
USE 2x6's @24" o.c. FOR SPANS UP TO.....9'-0"
USE 2x8's @24" o.c. FOR SPANS UP TO.....12'-0"
USE 2x10's @24" o.c. FOR SPANS UP TO.....15'-0"

POINT LOADS:
IT IS THE RESPONSIBILITY OF THE BUILDER AND/OR OWNER TO VERIFY THAT ALL POINT LOADS TRANSFER TO THE FOUNDATION OR SPECIFIED BEARING LOCATIONS.

- LIVE LOADS:**
IT IS THE RESPONSIBILITY OF THE BUILDER AND/OR OWNER TO VERIFY THAT ALL POINT LOADS TRANSFER TO THE FOUNDATION OR SPECIFIED BEARING LOCATIONS.
- THIS STRUCTURE IS DESIGNED TO RESIST THE FOLLOWING LOADS:
ROOF/SNOW.....2psf
FIRST FLOOR.....40psf
BALCONIES.....60psf
ATTIC.....20psf
SECOND FLOOR.....40psf
BASIC WIND SPEED.....90mph

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ROOF PLAN
S: 1/4" = 1'-0"

DATE: 2021-09-26 LAYOUT EXISTING
2021-11-02 A-HRB SUBMISSION

11-2-21

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JOB # 2021-49

ELEVATION NOTES

Reference sections 1061.3 and chapter 44 of the Residential Code of Ohio

GENERAL:

-GRADE SHALL HAVE A MINIMUM OF 6" FALL AWAY FROM THE STRUCTURE WITHIN THE FIRST 10' PER RCO SECTION 401.3.

-ALL CHIMNEYS SHALL EXTEND PAST ANY ROOF THAT IS WITHIN 10'-0" OF THE CHIMNEY BY A MINIMUM OF 2'-0".

-IT IS THE RESPONSIBILITY OF THE BUILDER AND/OR OWNER TO CHOOSE ALL SIDING COLORS, TRIM SIZES AND ANY FALSE VENTS.

SHINGLES:

ROOF SHINGLES SHALL BE APPLIED OVER A MINIMUM OF ONE PLY OF #15 FELT. FELT SHALL BE LAID PARALLEL TO THE EAVES, WITH A 2" TOP LAP AND 4" END LAP. MINIMUM ROOF SLOPE NO LESS THAN 1/4" / FT. ICE GUARD AND WATERSHIELD AT ALL EAVES AND VALLEYS. ICE GUARD SHALL BE INSTALLED A MINIMUM OF 24" MEASURED FROM THE INSIDE OF THE EXTERIOR WALL PER RCO SECTION 905.2.7.2.

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REFER TO ROOF PLAN SHEET FOR VENTING CALCULATIONS.

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WINDOWS:

ALL WINDOWS AND SIZES ARE DRAWN NOMINAL INCHES.

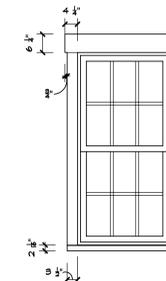
WINDOWS WITHIN 36" HORIZONTALLY & 60" VERTICALLY OF A TUB OR SHOWER MUST BE TEMPERED.

WINDOWS WITH SILLS LOWER THAN 18" MUST BE TEMPERED.

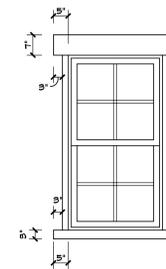
EGRESS REQUIREMENTS:

MAXIMUM SILL HEIGHT ABOVE FLOOR.....	44"
MINIMUM NET CLEAR OPENING HEIGHT.....	24"
MINIMUM NET CLEAR OPENING WIDTH.....	20"
MINIMUM NET CLEAR OPENING SQUARE FEET.....	5.7
MINIMUM NET CLEAR OPENING SQ. FT. GRADE LEVEL.....	5.0
REMOVAL OF SASH MAY NOT BE USED TO OBTAIN CLEAR OPNG.	

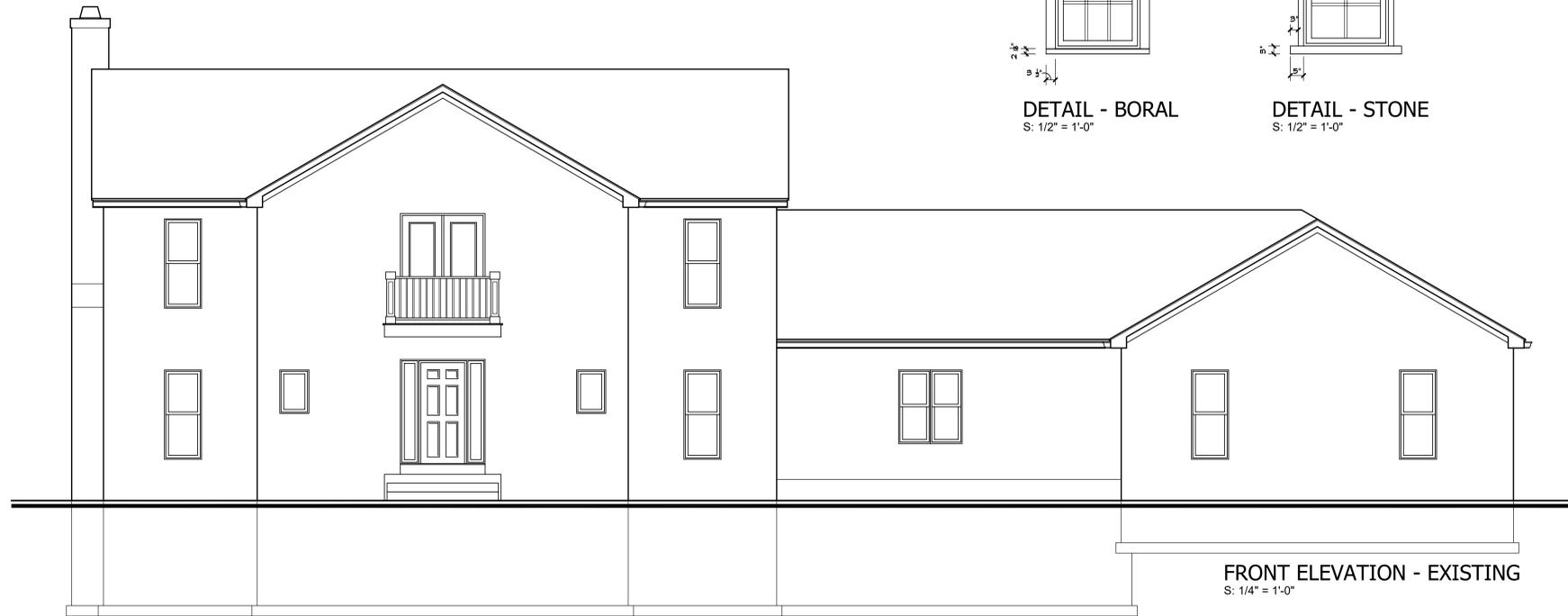
SEE SHEET C101 FOR GEN. CODE REQUIREMENTS, DISCLAIMERS AND GENERAL CONSTRUCTION NOTES



DETAIL - BORAL
S: 1/2" = 1'-0"



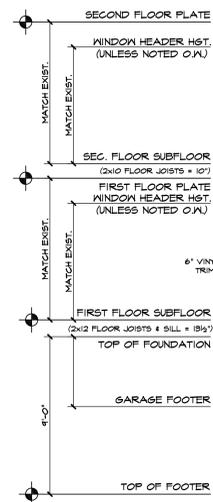
DETAIL - STONE
S: 1/2" = 1'-0"



FRONT ELEVATION - EXISTING
S: 1/4" = 1'-0"



FRONT ELEVATION - NEW
S: 1/4" = 1'-0"



ELEVATION NOTES

Reference sections 1061.3 and chapter 44 of the Residential Code of Ohio

GENERAL:

-GRADE SHALL HAVE A MINIMUM OF 6" FALL AWAY FROM THE STRUCTURE WITHIN THE FIRST 10' PER RCO SECTION 401.3.

-ALL CHIMNEYS SHALL EXTEND PAST ANY ROOF THAT IS WITHIN 10'-0" OF THE CHIMNEY BY A MINIMUM OF 2'-0".

-IT IS THE RESPONSIBILITY OF THE BUILDER AND/OR OWNER TO CHOOSE ALL SIDING COLORS, TRIM SIZES AND ANY FALSE VENTS.

SHINGLES:

ROOF SHINGLES SHALL BE APPLIED OVER A MINIMUM OF ONE PLY OF #15 FELT. FELT SHALL BE LAID PARALLEL TO THE EAVES, WITH A 2" TOP LAP AND 4" END LAP. MINIMUM ROOF SLOPE NO LESS THAN 1/4" / FT. ICE GUARD AND WATERSHIELD AT ALL EAVES AND VALLEYS. ICE GUARD SHALL BE INSTALLED A MINIMUM OF 24" MEASURED FROM THE INSIDE OF THE EXTERIOR WALL PER RCO SECTION 905.2.7.2.

ATTICS:

ALL ENCLOSED ATTICS AND RAFTER SPACES SHALL HAVE CROSS VENTILATION WITH THE NET FREE VENTILATING AREA NOT LESS THAN 1/300 OF THE AREA TO BE VENTILATED. ALL OPENINGS SHALL BE PROTECTED AGAINST THE ENTRANCE OF SNOW AND RAIN.

REFER TO ROOF PLAN SHEET FOR VENTING CALCULATIONS.

TRUSSES:

ALL TRUSSES ARE TO BE DESIGNED BY THE TRUSS MANUFACTURER WITH DETAILED DRAWINGS DESCRIBING TRUSS LAYOUTS AND LOAD CALCULATIONS USED TO DESIGN THE TRUSSES. IT IS THE BUILDER AND/OR OWNERS RESPONSIBILITY TO SUPPLY ANY/OR ALL OF THIS INFORMATION IF REQUESTED BY THE BUILDING DEPARTMENT TO ISSUE BUILDING PERMITS. IT IS ALSO THE RESPONSIBILITY OF THE TRUSS MANUFACTURER TO VERIFY, AND IF NECESSARY, ADJUST THE SIZE OF OR ADD ANY BEAM OR HEADER THAT IS DIRECTLY EFFECTED OR REQUIRED TO CARRY THE ROOF LOADS. IN THIS EVENT, THE TRUSS MANUFACTURER SHALL CONTACT J. KAPELA DESIGNS, INC. IN ORDER TO UPDATE THE DRAWINGS.

WINDOWS:

ALL WINDOWS AND SIZES ARE DRAWN NOMINAL INCHES.

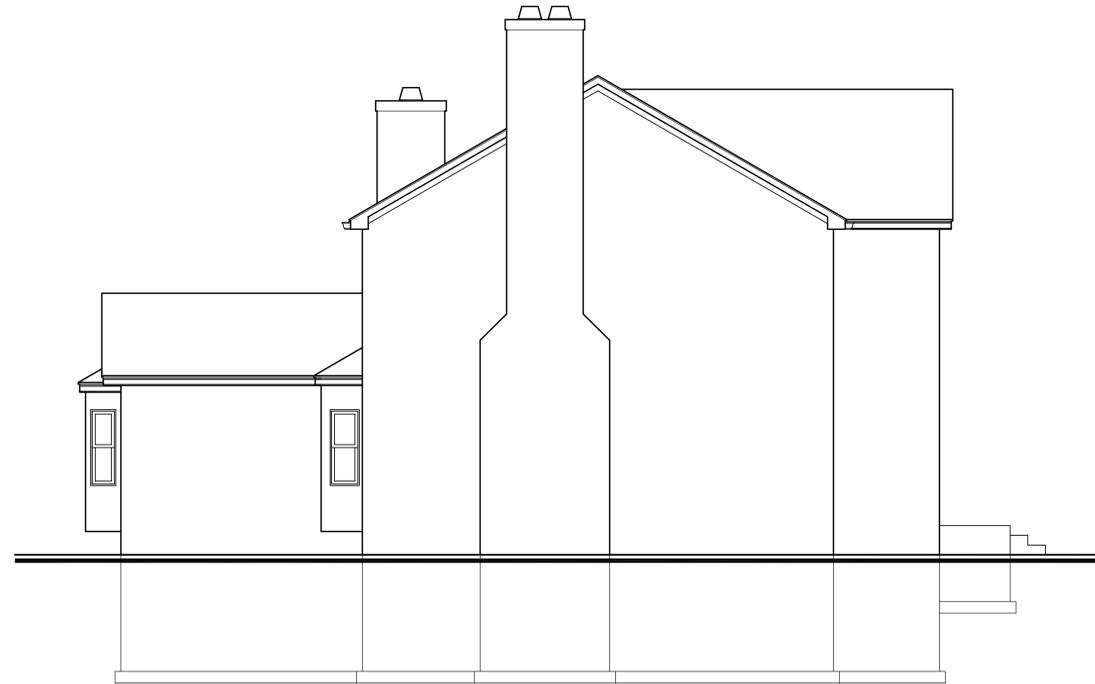
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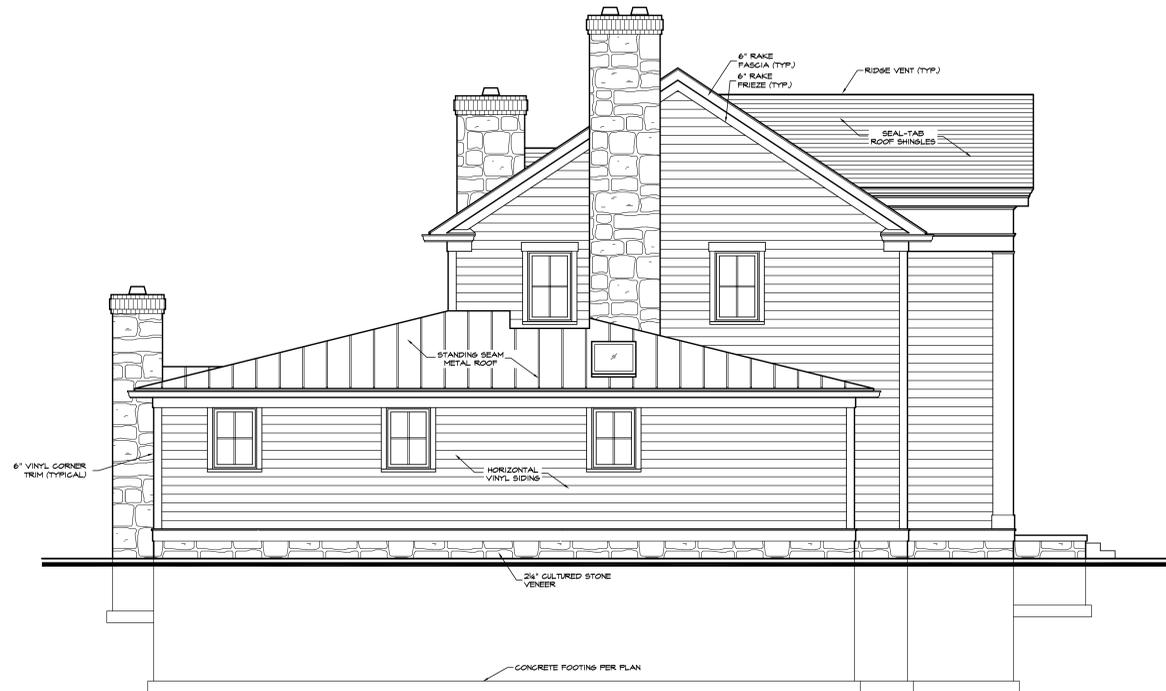
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 REMOVAL OF SASH MAY NOT BE USED TO OBTAIN CLEAR OPNG.

SEE SHEET C101 FOR GEN. CODE REQUIREMENTS, DISCLAIMERS AND GENERAL CONSTRUCTION NOTES



LEFT SIDE ELEVATION - EXISTING
 S: 1/4" = 1'-0"



LEFT SIDE ELEVATION - NEW
 S: 1/4" = 1'-0"

ELEVATION NOTES

Reference sections 1061.3 and chapter 44 of the Residential Code of Ohio

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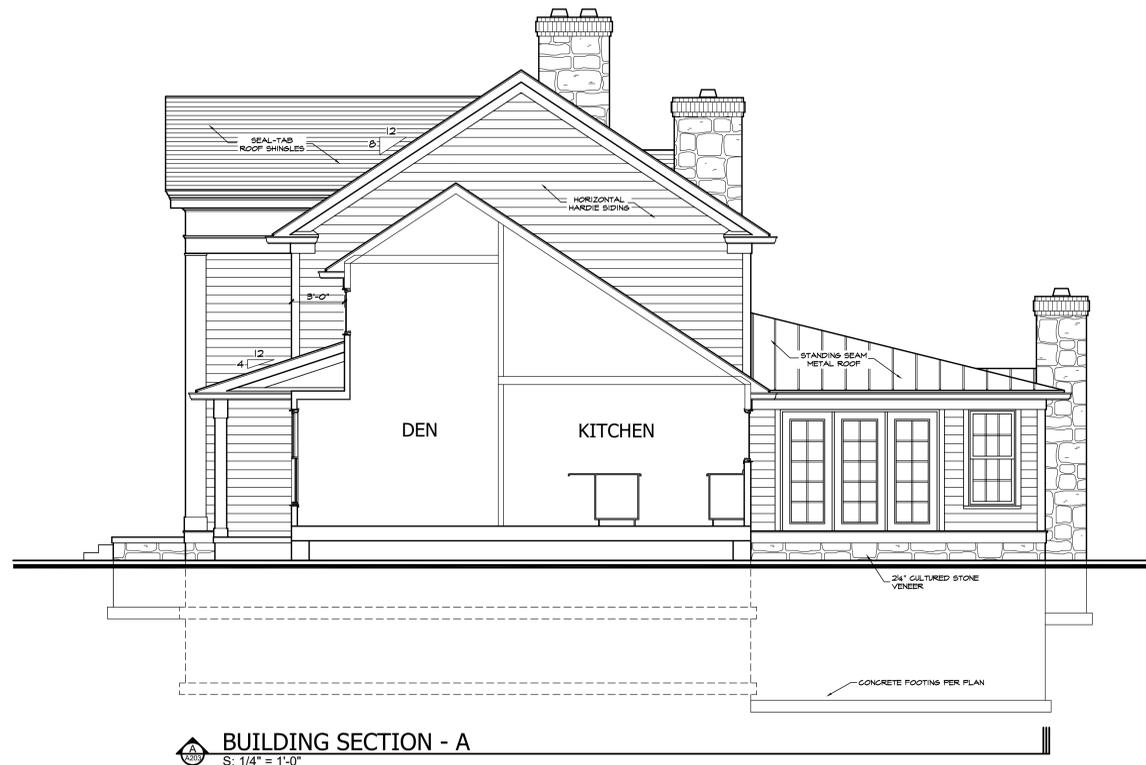
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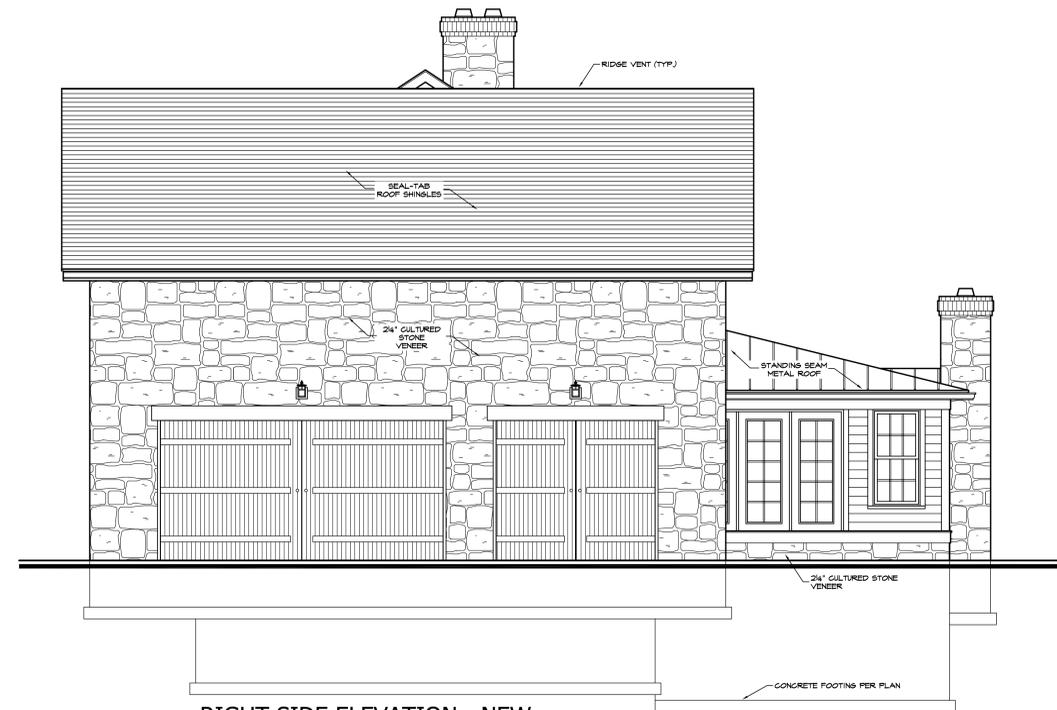
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RIGHT SIDE ELEVATION - EXISTING
 S: 1/4" = 1'-0"



RIGHT SIDE ELEVATION - NEW
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ELEVATION NOTES

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REAR ELEVATION - EXISTING
 S: 1/4" = 1'-0"



REAR ELEVATION - NEW
 S: 1/4" = 1'-0"

PLAN DESIGN & CONSTRUCTION CRITERIA
BASED ON THE FOLLOWING CODES:
2019 Residential Code of Ohio (RCO)
2017 National Electric Code (NEC)
2017 Ohio Mechanical Code (OMC)
2017 Ohio Plumbing Code (OPC)
2017 International Energy Conservation Code (IECC)

MECHANICAL NOTES

RECEPTACLE LOCATIONS:

PER NEC SECTION 210.52 AND 210.52(A)(1) - REQUIRES ALL 125-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE RECEPTACLES BE INSTALLED SO THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6'-0" FROM A RECEPTACLE OUTLET.

GFCI LOCATIONS:

PER NEC SECTION 210.8 - ALL 125-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE RECEPTACLES INSTALLED IN BATHROOMS, GARAGES, ACCESSORY BUILDINGS, EXTERIOR WALLS, CRAWL SPACES, UNFINISHED BASEMENTS, KITCHENS ABOVE COUNTER TOP HEIGHT, BOAT HOUSES, AND ANY ROOM WITH A SINK WHERE THE OUTLET IS WITHIN SIX FEET OF THE SINK SHALL BE GROUND-FAULT CIRCUIT INTERRUPTER TYPE.

AFCI LOCATIONS:

PER NEC SECTION 210.12 - ALL 125-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE RECEPTACLES INSTALLED IN ANY ROOM, CLOSET, HALLWAY, CEILING, ETC. OF THE HOUSE SHALL BE ARC-FAULT CIRCUIT INTERRUPTER TYPE EXCEPT WHERE GFCI LOCATIONS SUPERCEDE LISTED IN THE NOTE ABOVE PER NEC SECTION 210.8.

SMOKE & CARBON DETECTORS:

ALL SMOKE & CARBON DETECTORS SHALL BE HARDWIRED & INTERCONNECTED WITH A BATTERY BACK-UP. THEY SHALL BE INSTALLED IN EACH SLEEPING ROOM, OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS AND ON EACH ADDITIONAL STORY OF THE BUILDING PER RCO SECTIONS 314.3 AND 315.1.

BATH FANS / VENTS

ALL BATHROOM EXHAUST FANS SHALL VENT TO THE EXTERIOR AND HAVE A TERMINATION CAP INSTALLED PER RCO SECTION 303.3 EXCEPTION AND 303.5.

DISCLAIMER:

ALL HVAC, PLUMBING & ELECTRICAL SCHEMATICS ARE SUGGESTED. BUILDER AND/OR OWNER IS RESPONSIBLE FOR FINAL LAYOUTS THAT COMPLY WITH ALL LOCAL AND STATE BUILDING CODES. BUILDER AND/OR OWNER FULLY UNDERSTAND THAT J. KAPELA DESIGNS, INC. IS NOT A MECHANICAL ENGINEER AND ASSUMES NO RESPONSIBILITY FOR MECHANICAL SYSTEM INSTALLATIONS AND/OR ISSUES RELATED TO THEIR INSTALLATION.

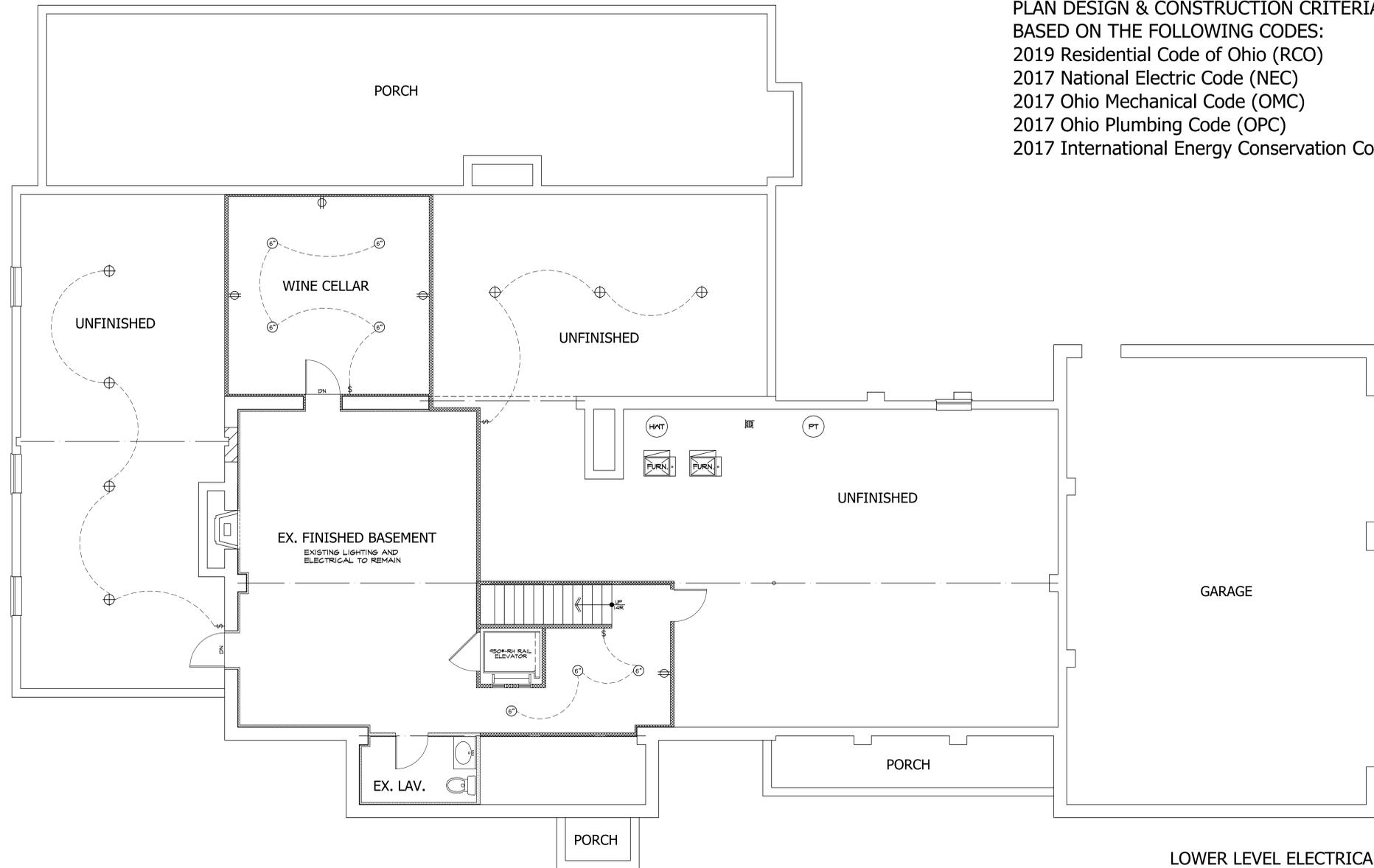
SEE SHEET C101 FOR GEN. CODE REQUIREMENTS, DISCLAIMERS AND GENERAL CONSTRUCTION NOTES

ELECTRIC SYMBOLS

	SINGLE POLE SWITCH
	3 WAY SWITCH
	4 WAY SWITCH
	ANY SWITCH WITH DIMMER
	110V DUPLEX RECEPTACLE
	SWITCH PLUG
	SPECIAL OUTLET
	TELEPHONE OUTLET
	CABLE OUTLET
	GROUND FAULT CIRCUIT INTERRUPTER
	WEATHERPROOF
	JUNCTION BOX
	CEILING LIGHT
	WALL LIGHT
	CEILING OUTLET (RECESSED FIXTURE)
	CEILING OUTLET (RECESSED EYEBALL FIXTURE)
	EXHAUST FAN
	SERVICE PANEL (MAY BE RECESSED OR SURFACE MOUNTED)
	CEILING FAN
	FLUORESCENT PANEL

NOTE: ALL NEW 15 AMP AND 20 AMP OUTLET RECEPTACLES SHALL BE TAMPER RESISTANT PER NEC SECTION 406.12

NOTE: PER NEC SECTION 410(D) ALL BATHROOM LIGHTING FIXTURES SHALL BE LISTED FOR DAMP LOCATIONS, OR LISTED FOR WET LOCATIONS WHERE SUBJECT TO SHOWER SPRAY.



LOWER LEVEL ELECTRICAL
S: 1/4" = 1'-0"

PLAN DESIGN & CONSTRUCTION CRITERIA
 BASED ON THE FOLLOWING CODES:
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 2017 National Electric Code (NEC)
 2017 Ohio Mechanical Code (OMC)
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MECHANICAL NOTES

RECEPTACLE LOCATIONS:

PER NEC SECTION 210.52 AND 210.52(A)(1) - REQUIRES ALL 125-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE RECEPTACLES BE INSTALLED SO THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6'-0" FROM A RECEPTACLE OUTLET.

GFCI LOCATIONS:

PER NEC SECTION 210.8 - ALL 125-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE RECEPTACLES INSTALLED IN BATHROOMS, GARAGES, ACCESSORY BUILDINGS, EXTERIOR WALLS, CRAWL SPACES, UNFINISHED BASEMENTS, KITCHENS ABOVE COUNTER TOP HEIGHT, BOAT HOUSES, AND ANY ROOM WITH A SINK WHERE THE OUTLET IS WITHIN SIX FEET OF THE SINK SHALL BE GROUND-FAULT CIRCUIT INTERRUPTER TYPE.

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SMOKE & CARBON DETECTORS:

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BATH FANS / VENTS

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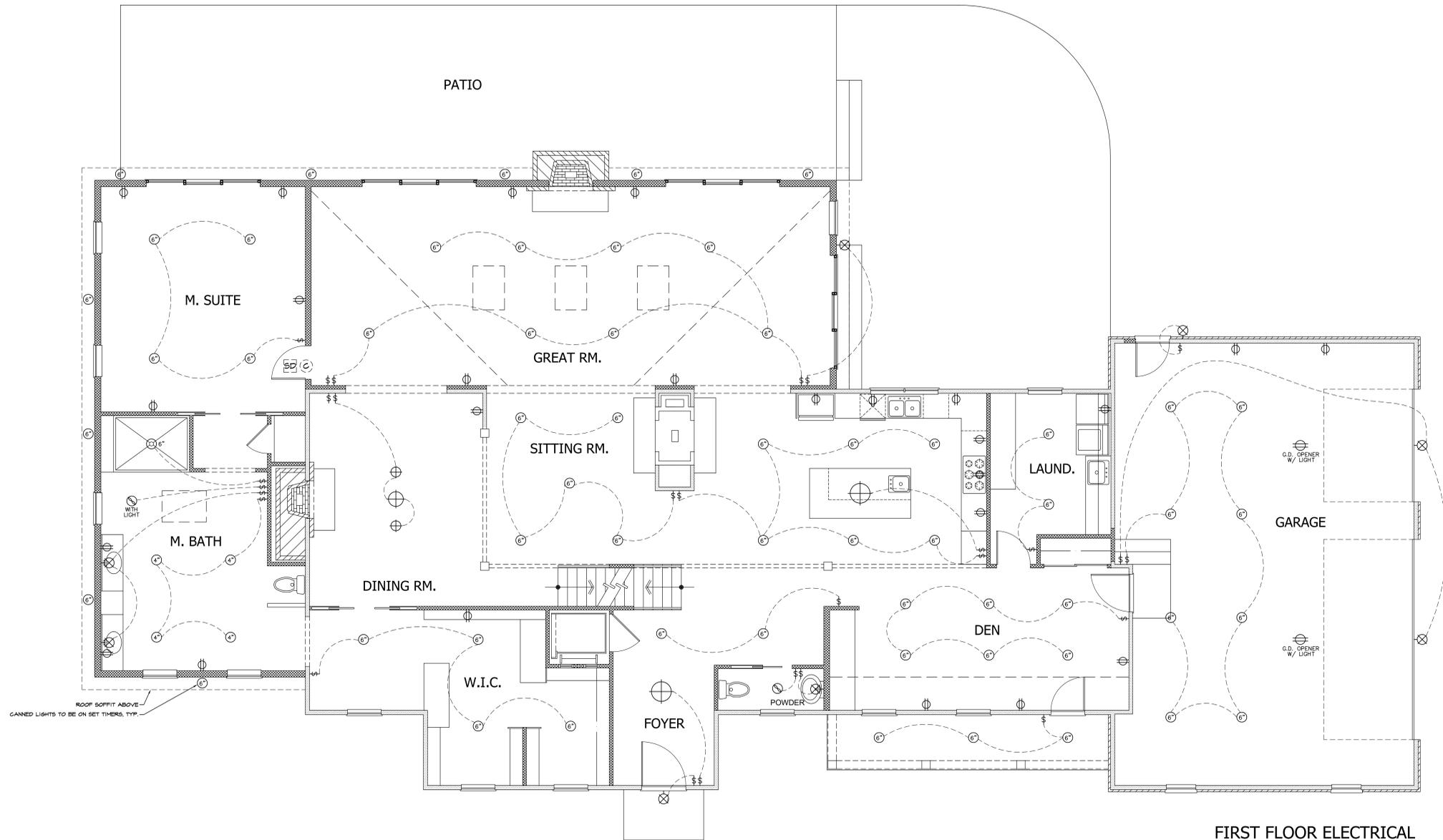
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ELECTRIC SYMBOLS

⊕	SINGLE POLE SWITCH
⊕	3 WAY SWITCH
⊕	4 WAY SWITCH
⊕	ANY SWITCH WITH DIMMER
⊕	110V DUPLEX RECEPTICAL
⊕	SWITCH PLUG
⊕	SPECIAL OUTLET
⊕	TELEPHONE OUTLET
⊕	CABLE OUTLET
⊕	GROUND FAULT CIRCUIT INTERRUPTER
⊕	WEATHERPROOF
⊕	JUNCTION BOX
⊕	CEILING LIGHT
⊕	WALL LIGHT
⊕	CEILING OUTLET (RECESSED FIXTURE)
⊕	CEILING OUTLET (RECESSED EYEBALL FIXTURE)
⊕	EXHAUST FAN
⊕	SERVICE PANEL (MAY BE RECESSED OR SURFACE MOUNTED)
⊕	CEILING FAN
⊕	FLUORESCENT PANEL

NOTE: ALL NEW 15 AMP AND 20 AMP OUTLET RECEPTACLES SHALL BE TAMPER RESISTANT PER NEC SECTION 406.12

NOTE: PER NEC SECTION 410(D) ALL BATHROOM LIGHTING FIXTURES SHALL BE LISTED FOR DAMP LOCATIONS, OR LISTED FOR WET LOCATIONS WHERE SUBJECT TO SHOWER SPRAY.



FIRST FLOOR ELECTRICAL
 S: 1/4" = 1'-0"

PLAN DESIGN & CONSTRUCTION CRITERIA
BASED ON THE FOLLOWING CODES:
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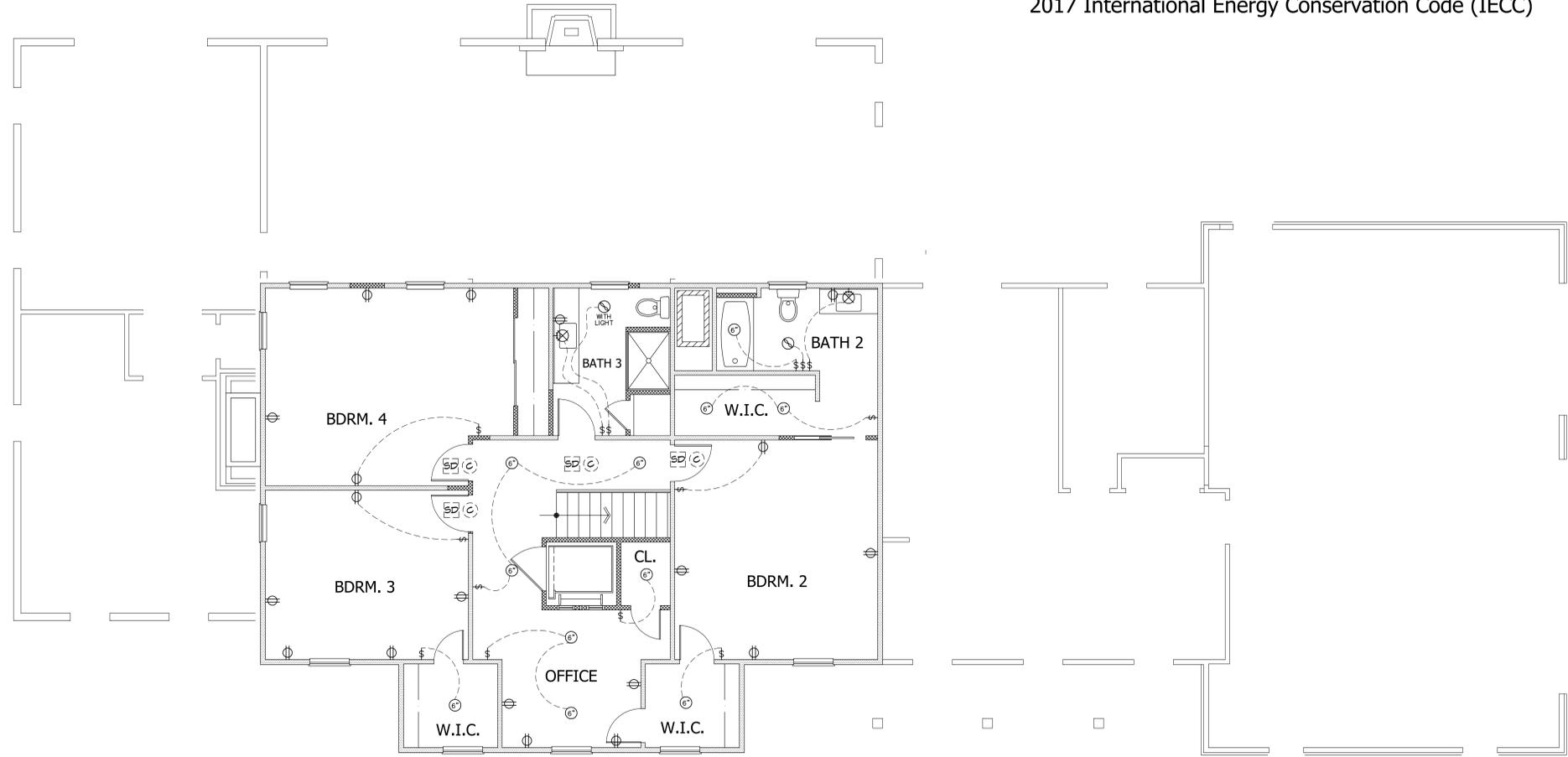
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⊕	SWITCH PLUG
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NOTE: ALL NEW 15 AMP AND 20 AMP OUTLET RECEPTACLES SHALL BE TAMPER RESISTANT PER NEC SECTION 406.12

NOTE: PER NEC SECTION 410(D) ALL BATHROOM LIGHTING FIXTURES SHALL BE LISTED FOR DAMP LOCATIONS, OR LISTED FOR WET LOCATIONS WHERE SUBJECT TO SHOWER SPRAY.



SECOND FLOOR ELECTRICAL
S: 1/4" = 1'-0"

FOUNDATION NOTES

Reference sections 1061.3 and chapter 44 of the Residential Code of Ohio

GENERAL:

- 2x8 PRESSURE TREATED SILL PLATE WITH SILL SEALER
- 1/2" Ø x18" ANCHOR BOLTS @ 6'-0" o.c. AND 12" MAXIMUM FROM CORNERS AND WITH A MIN. OF 2 BOLTS PER PLATE PER RCO SECTION 403.1.6.
- EXTERIOR FOUNDATION INSULATION AS REQUIRED.
- R-19 BATT INSULATION BETWEEN FLOOR JOIST CAVITIES AT RIM.

FOOTINGS:

- ALL FOOTINGS SHALL EXTEND BELOW THE MINIMUM FROST LINE DEPTH OF 42" PER RCO SECTION 402.2.
 - (2)#4 REBAR CONTINUOUS THRU WALL FOOTERS.
 - ALL 8" BLOCK OR POURED CONCRETE WALLS SHALL HAVE A MINIMUM 8"x16" CONTINUOUS POURED CONCRETE FOOTING.
 - ALL 12" BLOCK OR POURED CONCRETE WALLS SHALL HAVE A MINIMUM 8"x20" CONTINUOUS POURED CONCRETE FOOTING.
 - ALL CONCRETE LINTELS AT FOOTING LEVEL CHANGES SHALL HAVE A MINIMUM OF 8" BEARING AT EACH END.
- CENTER ALL FOOTINGS ON COLUMN CENTER LINES. REINFORCE EACH WAY AS FOLLOWS:
- | | |
|---------|-------|
| 24"x24" | (2)#4 |
| 30"x30" | (3)#4 |
| 36"x36" | (3)#4 |
| 42"x42" | (4)#4 |
| 48"x48" | (5)#4 |
| 60"x60" | (5)#5 |
| 72"x72" | (6)#5 |

CRAWL SPACE VENTILATION:

CRAWL SPACE EXTERIOR VENTILATION OPENINGS MAY BE OMITTED WHEN CONTINUOUSLY OPERATED MECHANICAL VENTILATION IS PROVIDED AT A RATE OF 1.0 cfm FOR EACH 50 SQUARE FEET OF CRAWL SPACE FLOOR AREA.

POINT LOADS:

IT IS THE RESPONSIBILITY OF THE BUILDER AND/OR OWNER TO VERIFY THAT ALL POINT LOADS TRANSFER TO THE FOUNDATION OR SPECIFIED BEARING LOCATIONS.

SEE SHEET C101 FOR GEN. CODE REQUIREMENTS, DISCLAIMERS AND GENERAL CONSTRUCTION NOTES

STEEL BEAM CHART

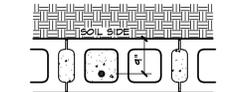
SIZE	DEPTH	WIDTH
M8x15	8 1/8"	4"
M10x22	10 1/8"	5 3/4"
M12x26	12 1/4"	6 1/2"
M12x45	12"	8"

NOTE: DIMENSIONS ARE DERIVED FROM AISC STEEL MANUAL. VERIFY WITH STEEL DISTRIBUTOR.

12" CONC. BLOCK REINFORCING DETAIL

MASONRY WALL REINFORCEMENT = (1)#5 @ 48" o.c.

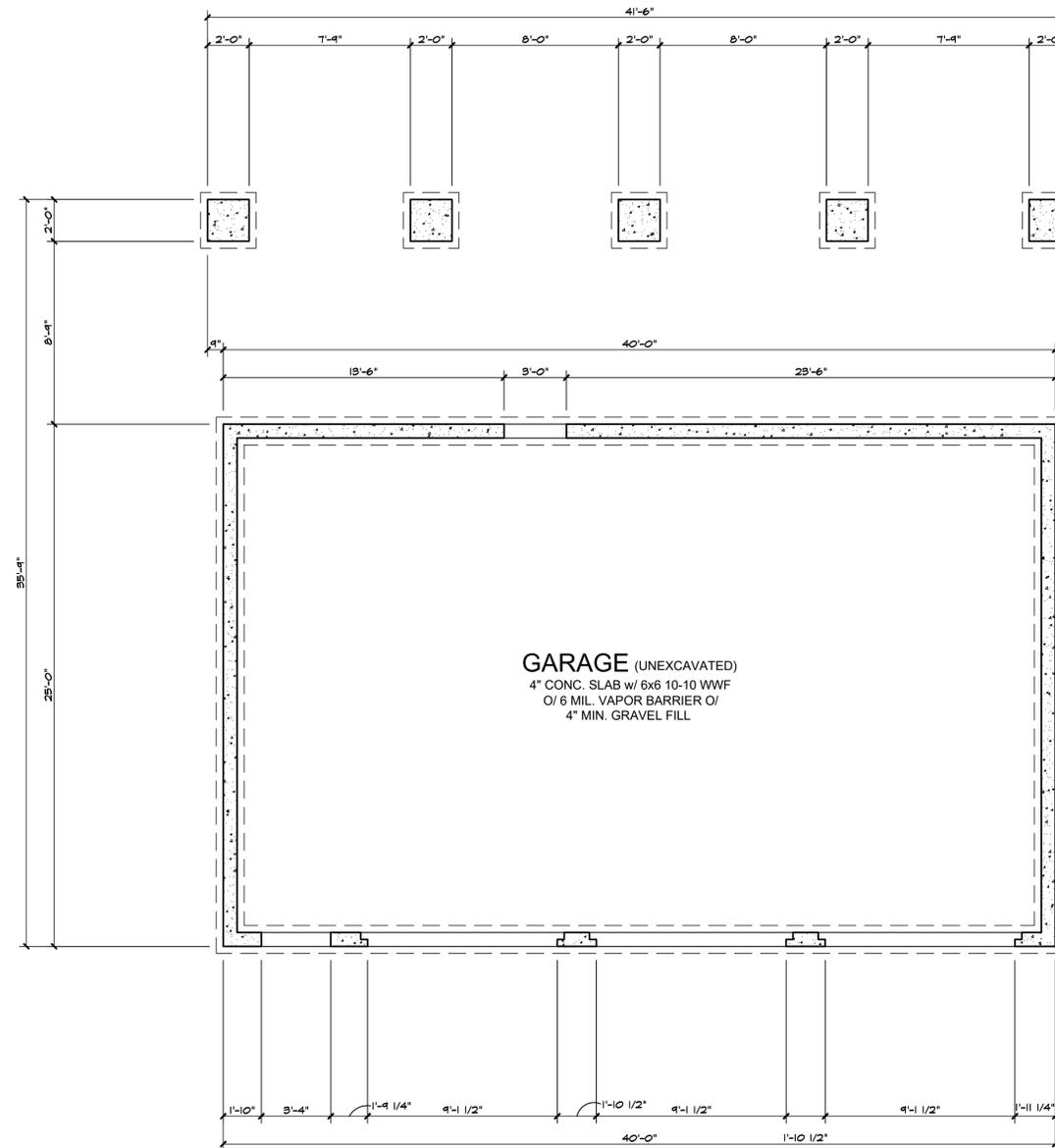
- 24" MAX. FROM CORNERS
- BARS 4" IN FROM SOIL SIDE
- GROUT CORES FULL-HEIGHT SOLID AT REINFORCING BARS



DESIGN CRITERIA:

- 36" MINIMUM GRAVEL FILL
- MAX. LATERAL SOIL PRESSURE OF 55 psf
- 1,500 psf SOIL BEARING PRESSURE
- MIN. 3,000 psi CONCRETE STRENGTH
- REINFORCING YIELD STRENGTH OF 60,000 psi

NOTE: THIS DETAIL IS ASSUMING BEST CASE SOIL CONDITIONS. FOR MEDIUM OR WORST CASE REFER TO RCO TABLE 404.1.1(4)



FOUNDATION PLAN
S: 1/4" = 1'-0"

SECOND FLOOR NOTES

Reference sections 1061.3 and chapter 44 of the Residential Code of Ohio

GENERAL:

- ALL WALLS ARE DIMENSIONED STUD-TO-STUD.
- ALL INTERIOR WALLS ARE 3 1/2", EXTERIOR WALLS ARE 6" UNLESS OTHERWISE NOTED.
- ALL ANGLED WALLS ARE 45° UNLESS OTHERWISE NOTED.
- SEE PLANS FOR HEADERS IN ALL OPENINGS FOR EXTERIOR AND LOAD BEARING WALLS.
- ALL FLOOR JOISTS SHALL BE CROWNED BEFORE PLACEMENT.
- ALL POSTS (■) SHALL BE A MINIMUM OF (3)2x4's OR (2)2x6's UNLESS NOTED OTHERWISE & DEPENDENT ON WALL THICKNESS
- POINT LOADS ARE REPRESENTED BY (●)

SMOKE & CARBON DETECTORS:

ALL SMOKE & CARBON DETECTORS SHALL BE HARDWIRED & INTERCONNECTED WITH A BATTERY BACK-UP. THEY SHALL BE INSTALLED IN EACH SLEEPING ROOM, OUTSIDE OF EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS AND ON EACH ADDITIONAL STORY OF THE BUILDING PER RCO SECTIONS 314.3 AND 315.1.

FIREPLACES:

ALL CHIMNEYS AND FIREPLACES SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF 2013 RCO AND INSTALLED PER THE ORDINANCES SET FORTH THE BY THE LOCAL GOVERNING BUILDING AND ZONING DEPARTMENTS. IT IS THE RESPONSIBILITY OF THE BUILDER AND/OR OWNER TO VERIFY THE ROUGH-OPENING DIMENSIONS FOR ALL PRE-FAB FIREPLACES WITH THE ACTUAL UNIT TO BE INSTALLED, PRIOR TO FRAMING.

WINDOWS:

- ALL WINDOWS AND SIZES ARE DRAWN NOMINAL INCHES.
- WINDOWS WITHIN 60" OF STANDING OR WALKING SURFACE OF A TUB, SHOWER, HOT TUB OR WHIRLPOOL MUST BE TEMPERED.
- WINDOWS WITH SILLS LOWER THAN 18" MUST BE TEMPERED.

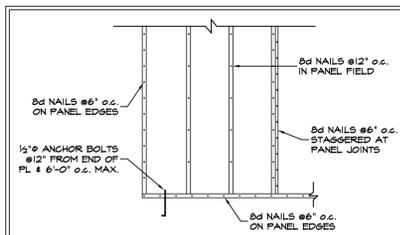
EGRESS REQUIREMENTS:

- MAXIMUM SILL HEIGHT ABOVE FLOOR.....44"
- MINIMUM NET CLEAR OPENING HEIGHT.....24"
- MINIMUM NET CLEAR OPENING WIDTH.....20"
- MINIMUM NET CLEAR OPENING SQUARE FEET.....5.7
- MINIMUM NET CLEAR OPENING SQ. FT. GRADE LEVEL.....5.0
- REMOVAL OF SASH MAY NOT BE USED TO OBTAIN CLEAR OPNG.

STAIR REQUIREMENTS:

- MINI. STAIR WIDTH EXCLUDING WALL HANDRAIL.....3'-0"
- MINIMUM TREAD DEPTH.....9"
- MAXIMUM RISER HEIGHT.....8 1/4"
- MAXIMUM VARIANCE IN RISER HEIGHT.....3/8"
- MINIMUM NOSING PROJECTION.....1"
- MINIMUM HEADROOM HEIGHT AT STAIR ANGLE.....6'-8"
- MINIMUM / MAXIMUM HANDRAIL HEIGHT.....34" / 38"
- MAXIMUM BALUSTER SPACING (CLEAR OPENING).....<4"
- MINIMUM GUARDRAIL HEIGHT AT STAIRS.....34"
- MINIMUM GUARDRAIL HEIGHT AT DECKS & BALCONIES.....36"
- MAXIMUM HAND GRIP WIDTH.....2 1/4"
- MINIMUM DISTANCE BETWEEN WALL AND HANDRAIL.....1 1/2"

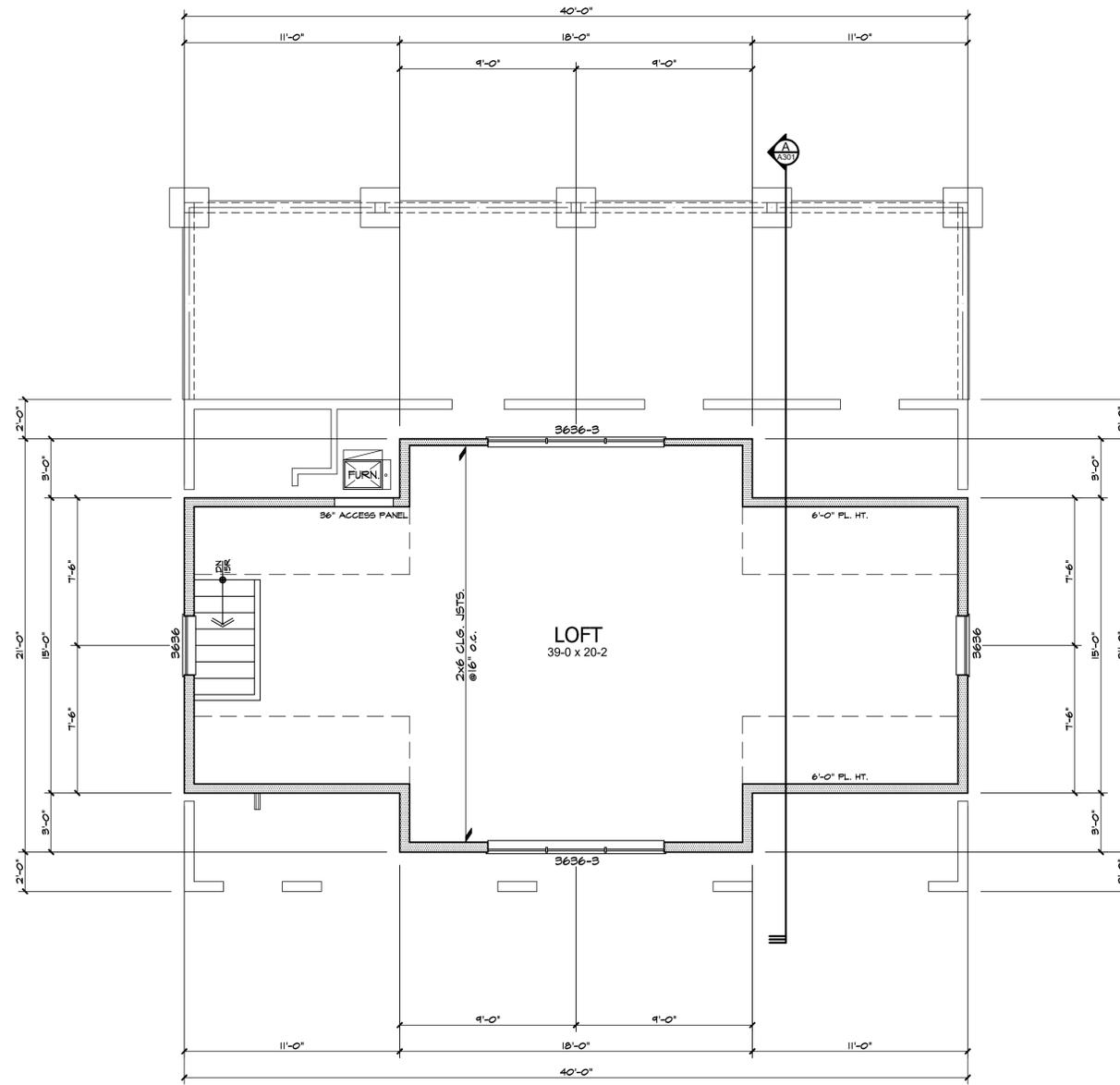
SEE SHEET C101 FOR GEN. CODE REQUIREMENTS, DISCLAIMERS AND GENERAL CONSTRUCTION NOTES



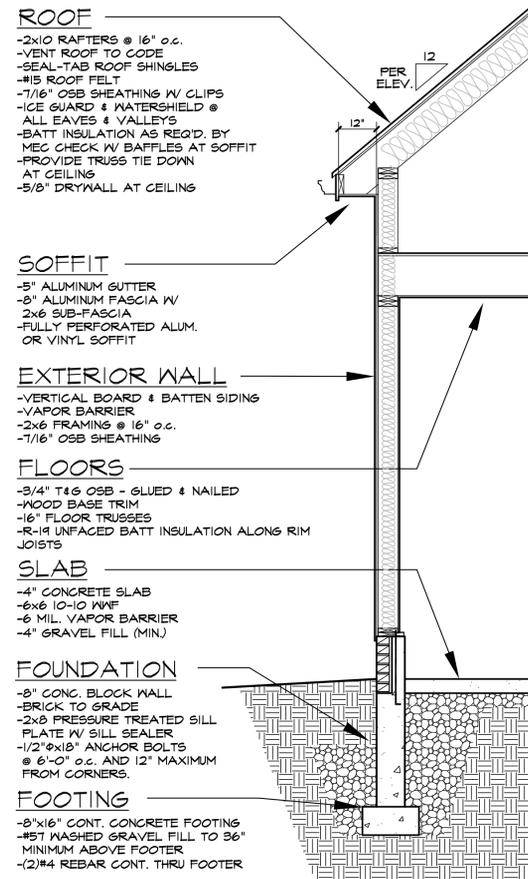
METHOD CS-WSP (602.10.4)

- THIS IS FOR ALL EXTERIOR WALLS OF THE HOME U.N.O.
- EXTERIOR BRACED WALLS ARE ALL TO ALL BE CONTINUOUSLY SHEATHED WITH MIN 7/8" OSB OR PLYWOOD PER CODE.
- ATTACH PER TABLE 602.3(3)
- CONTINUOUSLY SHEATH PER SECTION 602.10.4.2
- MIN. PANEL LENGTHS PER TABLE 602.10.5
- PER TABLE 602.10.1.3 BRACED WALL LINE SPACING 60 FT. MAX WITH 3.1 DIAPHRAGM WIDTH TO DEPTH RATIO

BRACED WALL PANELS (NOT TO SCALE)



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



TYPICAL WALL SECTION (GARAGE)

SCALE: 1/2" = 1'-0"
 NOTE: SOME ITEMS DRAWN IN THIS TYPICAL WALL SECTION ARE DIAGNOSTIC AND NOT NECESSARILY TO THE EXACT SCALE OR PITCH, PLEASE REFER TO TYPED NOTES ALONG SIDE & TYPED DIMENSIONS.

ROOF NOTES

Reference sections 1061.3 and chapter 44 of the Residential Code of Ohio

SHINGLES:

ROOF SHINGLES SHALL BE APPLIED OVER A MINIMUM OF ONE PLY OF #15 FELT. FELT SHALL BE LAID PARALLEL TO THE EAVES, WITH A 2" TOP LAP AND 4" END LAP. MINIMUM ROOF SLOPE NO LESS THAN 1/4" / FT. ICE GUARD AND WATERSHIELD AT ALL EAVES AND VALLEYS. ICE GUARD SHALL BE INSTALLED A MINIMUM OF 24" MEASURED FROM THE INSIDE OF THE EXTERIOR WALL PER RCO SECTION 905.2.7.2.

ATTICS:

ALL ENCLOSED ATTICS AND RAFTER SPACES SHALL HAVE CROSS VENTILATION WITH THE NET FREE VENTILATING AREA NOT LESS THAN 1/300 OF THE AREA TO BE VENTILATED. ALL OPENINGS SHALL BE PROTECTED AGAINST THE ENTRANCE OF SNOW AND RAIN.

SHEATHING:

EXTERIOR WALLS & ROOF SHALL BE CONTINUOUSLY SHEATHED WITH MIN. 7/16" OSB OR PLYWOOD PER SECTION R602.10. NAILED W/ 8d NAILS AT 6" o.c. AT ALL PANEL EDGES AND 12" o.c. AT INTERMEDIATE SUPPORTS

POINT LOADS:

IT IS THE RESPONSIBILITY OF THE BUILDER AND/OR OWNER TO VERIFY THAT ALL POINT LOADS TRANSFER TO THE FOUNDATION OR SPECIFIED BEARING LOCATIONS.

TRUSSES:

ALL TRUSSES ARE TO BE DESIGNED BY THE TRUSS MANUFACTURER WITH DETAILED DRAWINGS DESCRIBING TRUSS LAYOUTS AND LOAD CALCULATIONS USED TO DESIGN THE TRUSSES. IT IS THE BUILDER AND/OR OWNERS RESPONSIBILITY TO SUPPLY ANY/OR ALL OF THIS INFORMATION IF REQUESTED BY THE BUILDING DEPARTMENT TO ISSUE BUILDING PERMITS. IT IS ALSO THE RESPONSIBILITY OF THE TRUSS MANUFACTURER TO VERIFY, AND IF NECESSARY, ADJUST THE SIZE OF OR ADD ANY BEAM OR HEADER THAT IS DIRECTLY EFFECTED OR REQUIRED TO CARRY THE ROOF LOADS. IN THIS EVENT, THE TRUSS MANUFACTURER SHALL CONTACT J. KAPELA DESIGNS, INC. IN ORDER TO UPDATE THE DRAWINGS.

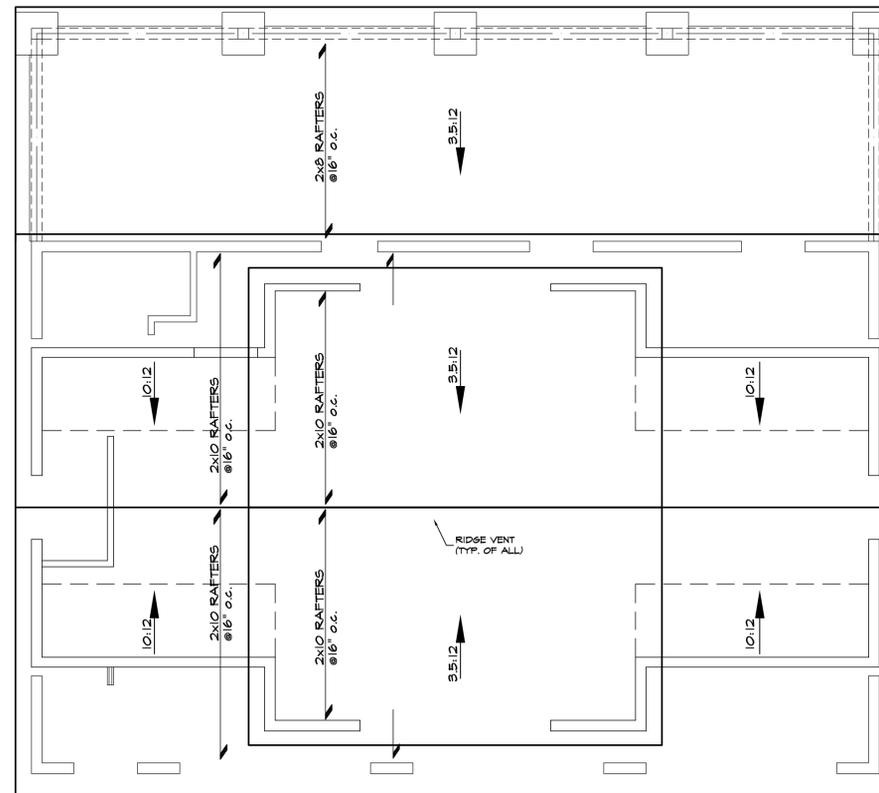
OVER-LAY RAFTERS:

USE 2x4's @24" o.c. FOR SPANS UP TO.....6'-0"
 USE 2x6's @24" o.c. FOR SPANS UP TO.....9'-0"
 USE 2x8's @24" o.c. FOR SPANS UP TO.....12'-0"
 USE 2x10's @24" o.c. FOR SPANS UP TO.....15'-0"

LIVE LOADS:

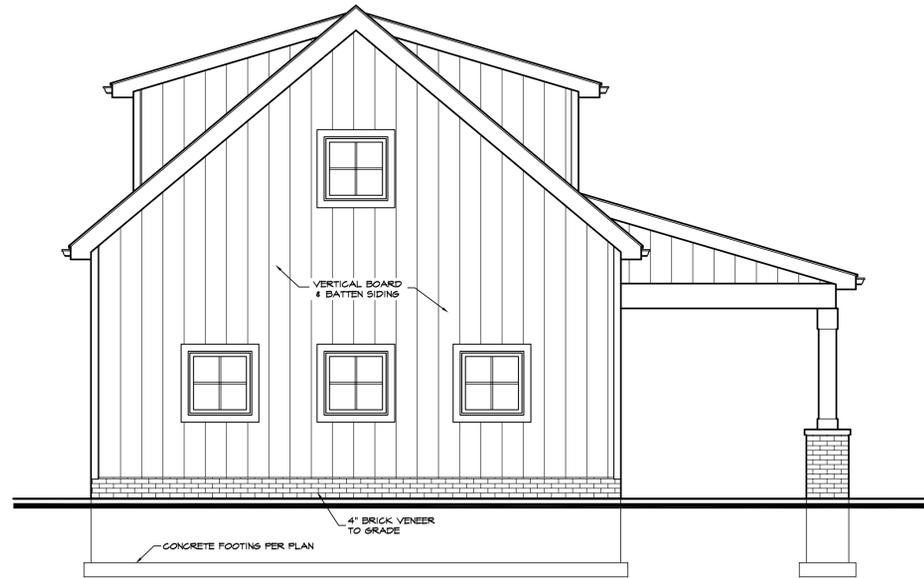
IT IS THE RESPONSIBILITY OF THE BUILDER AND/OR OWNER TO VERIFY THAT ALL POINT LOADS TRANSFER TO THE FOUNDATION OR SPECIFIED BEARING LOCATIONS.

THIS STRUCTURE IS DESIGNED TO RESIST THE FOLLOWING LOADS:
 ROOF/SNOW.....25psf ATTIC.....20psf
 FIRST FLOOR.....40psf SECOND FLOOR.....40psf
 BALCONIES.....60psf BASIC WIND SPEED.....90mph

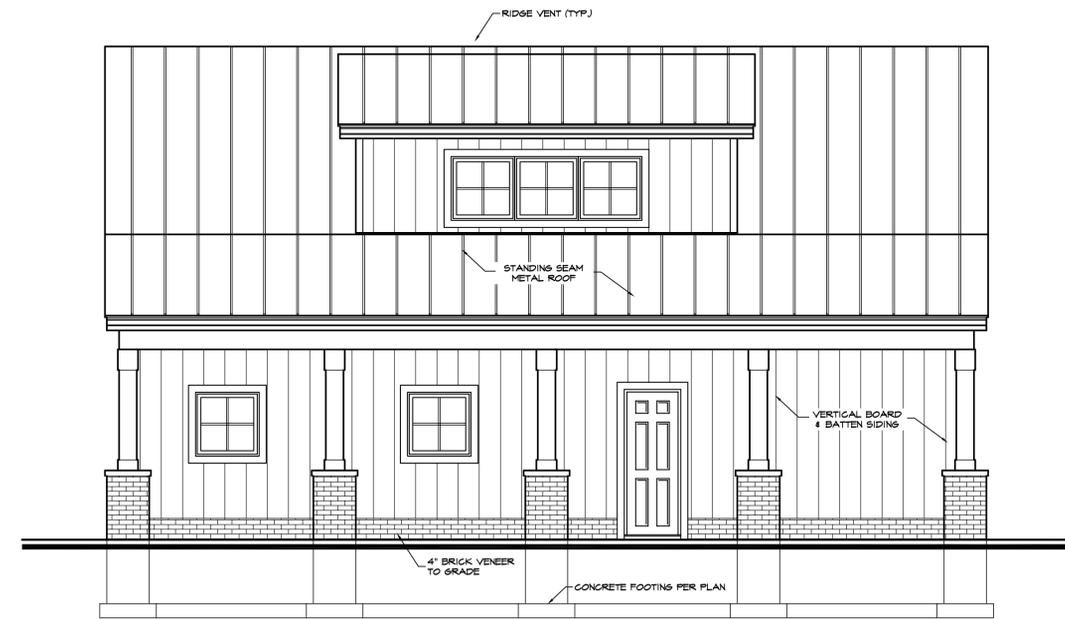


ROOF PLAN
 S: 1/4" = 1'-0"

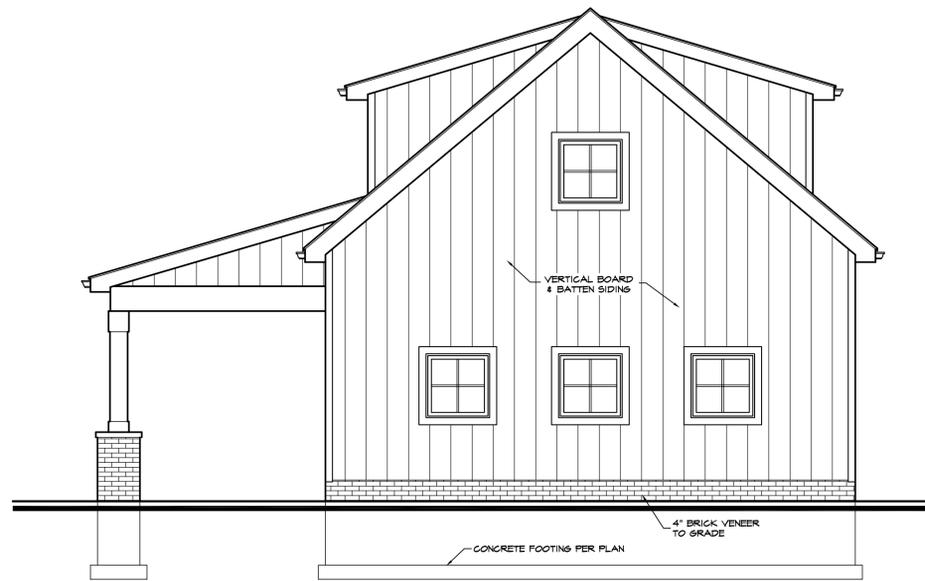
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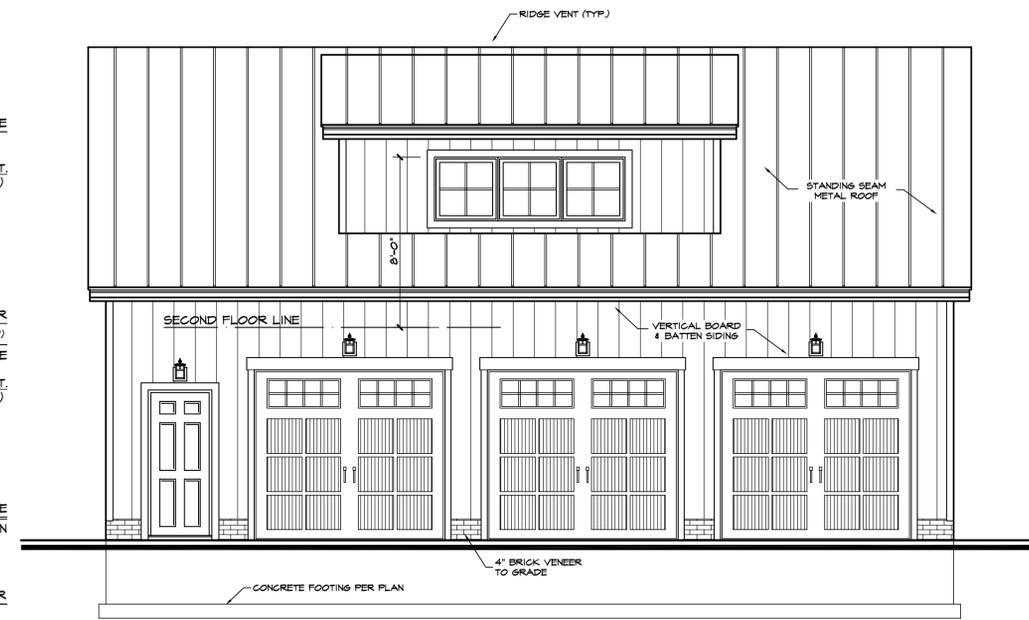
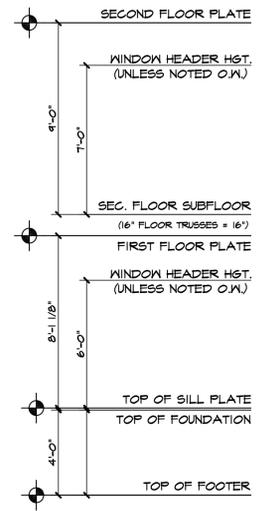
RIGHT SIDE ELEVATION
S: 1/4" = 1'-0"



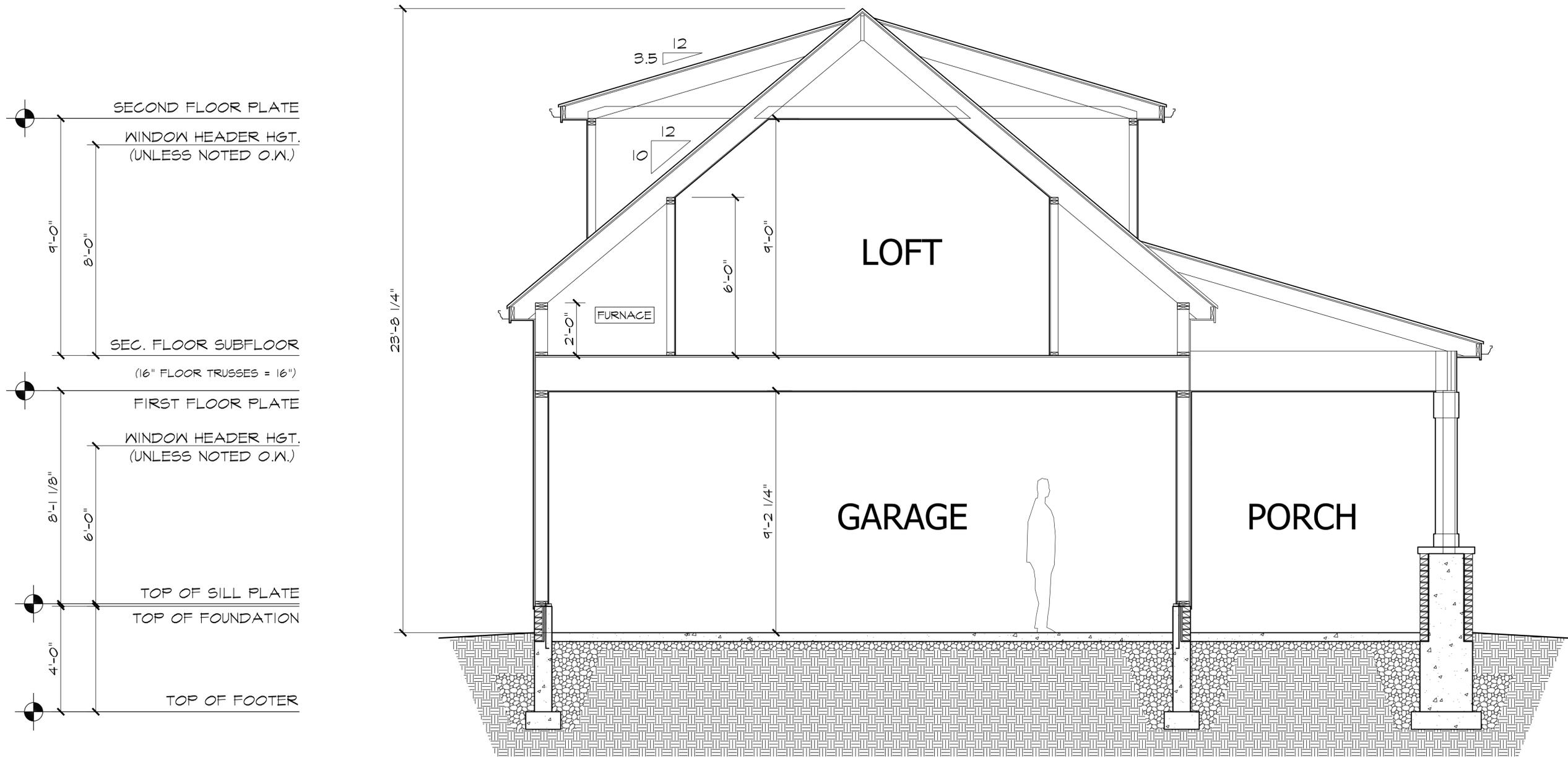
REAR ELEVATION
S: 1/4" = 1'-0"



LEFT SIDE ELEVATION
S: 1/4" = 1'-0"



FRONT ELEVATION
S: 1/4" = 1'-0"



23'-8 1/4"

A
A301

BUILDING SECTION - A

S: 1/2" = 1'-0"

TATKO BARN
1751 E. HINES HILL RD.
HUDSON, OH 44236

SECTION & DETAILS

DATE
2021-10-21 LAYOUT PLANS
2021-11-01 AHPB SUBMISSION

11-2-21

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