

**SITE PLAN**  
S: 1" = 20'-0"

**TALLEY RESIDENCE**  
7650 HOLYOKE AVENUE  
HUDSON, OH 44236  
**SITE STUDY**

DATE	REVISION
2021-03-22	MEASURE EXISTING
2021-08-23	PORCH REVISION
2021-10-05	CITY COMMENTS

**10-5-21**

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JOB # 2021-18

**S101**

# 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

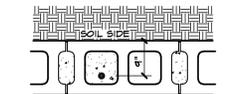
SIZE	DEPTH	WIDTH
W8x15	8 1/8"	4"
W10x22	10 1/8"	5 3/4"
W12x26	12 1/4"	6 1/2"
W12x45	12"	8"

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.

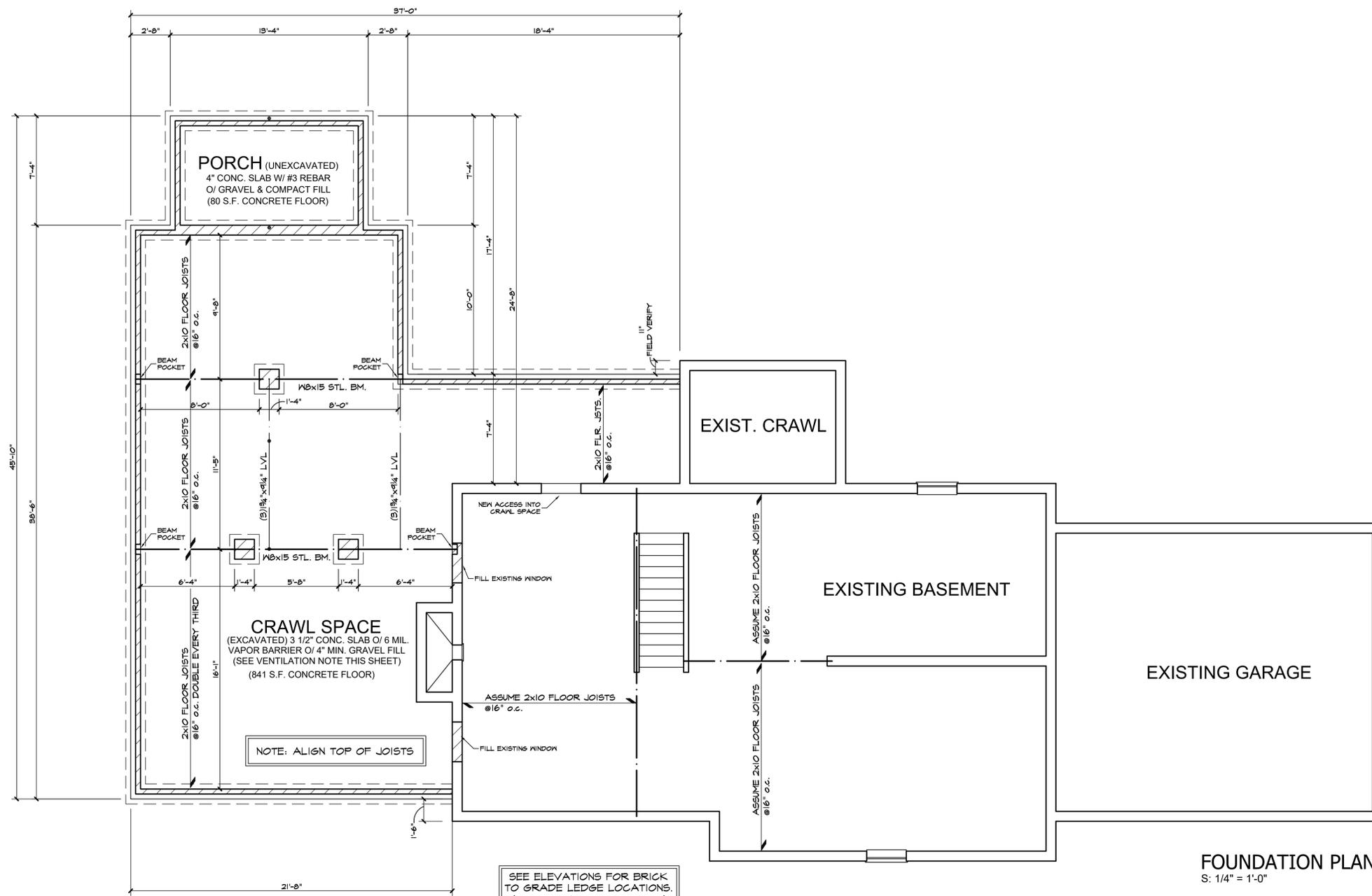
- 24" MAX. FROM CORNERS
- BARS 4" IN FROM SOIL SIDE
- GROUT CORES FULL-HEIGHT SOLID AT REINFORCING BARS



### 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(14)



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

CONTACT:  
J. KAPELA DESIGNS & CONST.  
4302 John Avenue  
Cleveland, Ohio 44113  
216-862-3525  
www.jkapela.com

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JOB # 2021-18

A101

# FIRST 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.

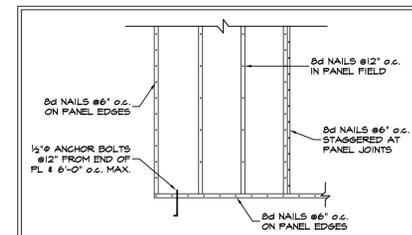
## EGRESS REQUIREMENTS:

- 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"

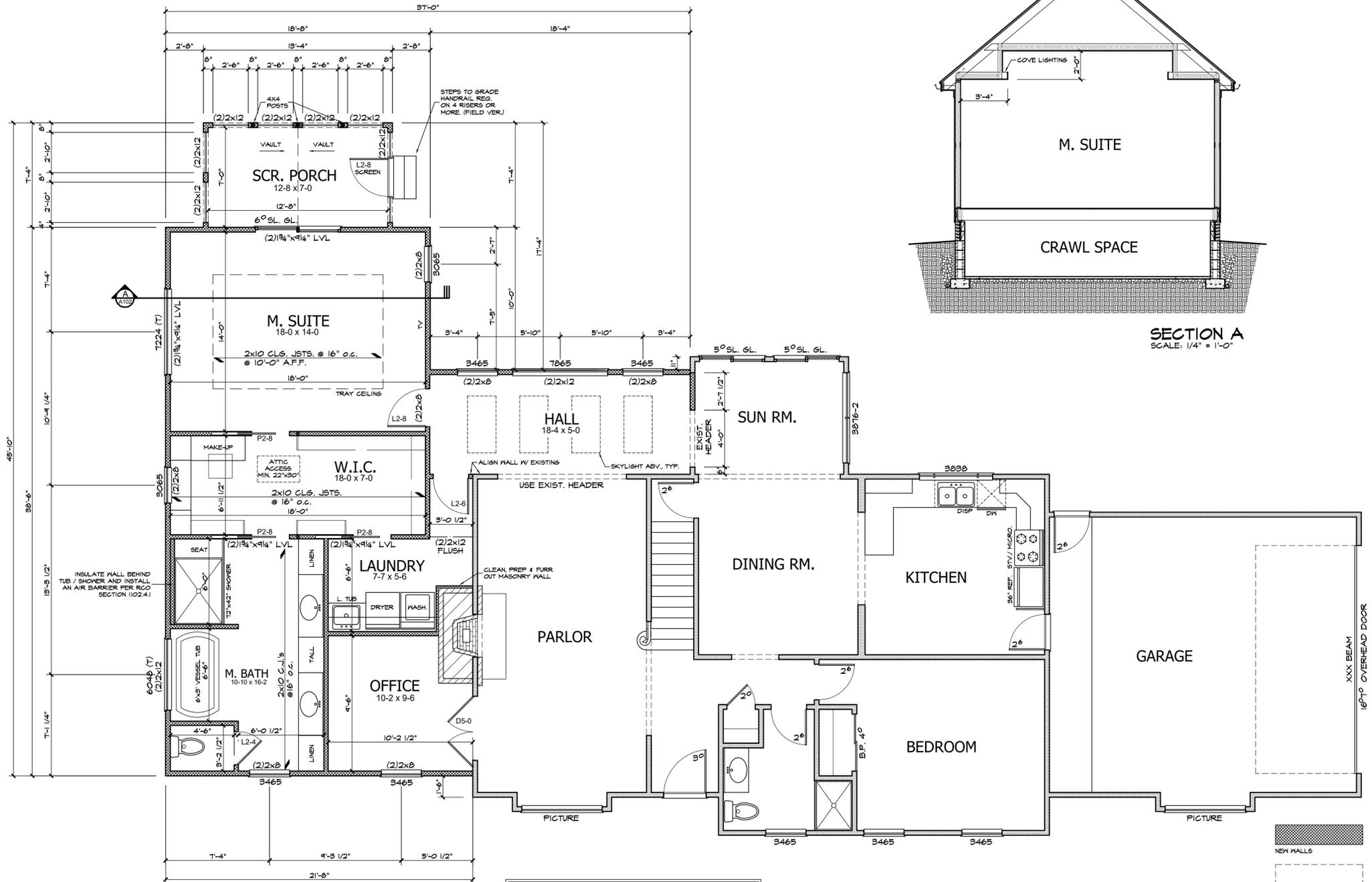
SEE SHEET C101 FOR GEN. CODE REQUIREMENTS, DISCLAIMERS AND GENERAL CONSTRUCTION NOTES



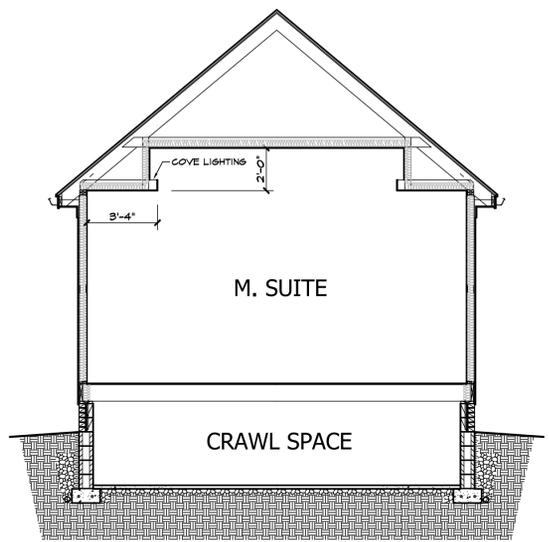
### METHOD CS-WSP (602.10.4)

- 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)



NOTE: FIELD VERIFY ALL DIMENSIONS WITH EXISTING CONDITIONS



SECTION A  
SCALE: 1/4" = 1'-0"



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

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## SECOND FLOOR NOTES

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

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### SMOKE & CARBON DETECTORS:

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- WINDOWS WITH SILLS LOWER THAN 18" MUST BE TEMPERED.

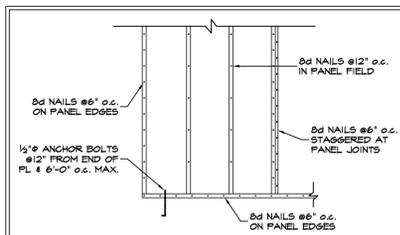
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- MAXIMUM SILL HEIGHT ABOVE FLOOR.....44"
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- MINIMUM NET CLEAR OPENING WIDTH.....20"
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- MINIMUM NET CLEAR OPENING SQ. FT. GRADE LEVEL.....5.0
-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

### STAIR REQUIREMENTS:

- MINI. STAIR WIDTH EXCLUDING WALL HANDRAIL.....3'-0"
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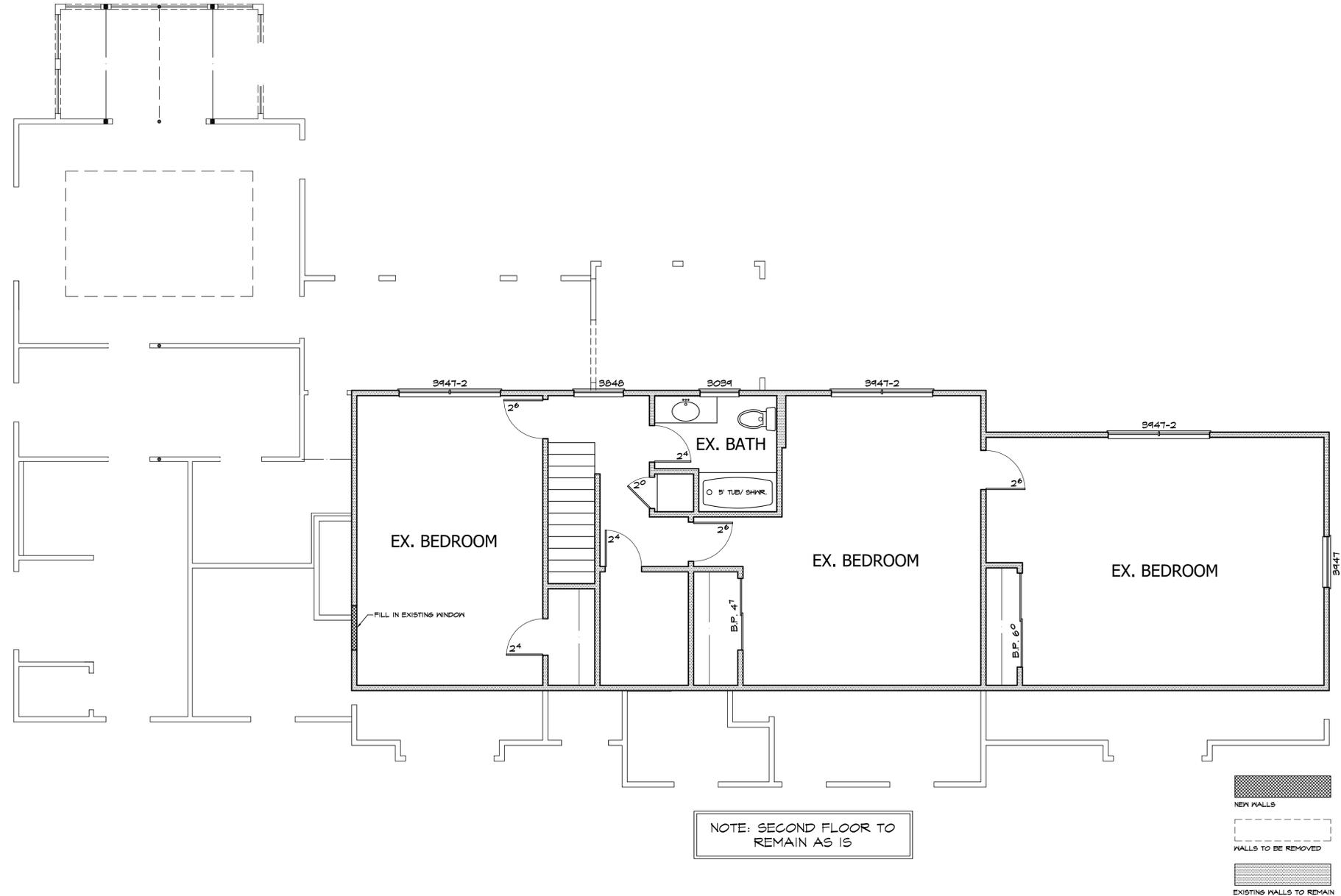
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#### METHOD CS-WSP (602.10.4)

- THIS IS FOR ALL EXTERIOR WALLS OF THE HOME U.N.O.
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- 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"

# 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:

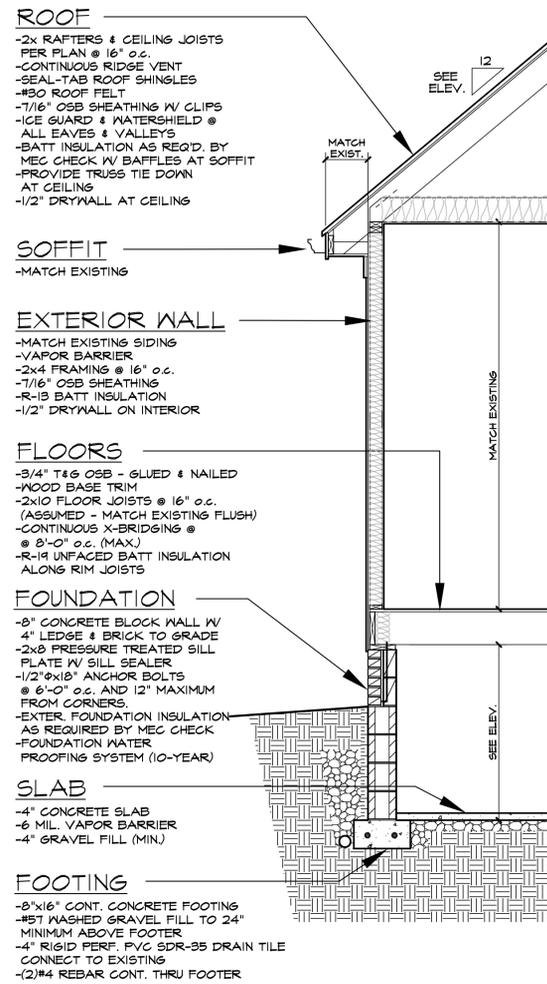
USE 2x4's @24" o.c. FOR SPANS UP TO.....6'-0"  
 USE 2x6's @24" o.c. FOR SPANS UP TO.....9'-0"  
 USE 2x8's @24" o.c. FOR SPANS UP TO.....12'-0"  
 USE 2x10's @24" o.c. FOR SPANS UP TO.....15'-0"

## 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.

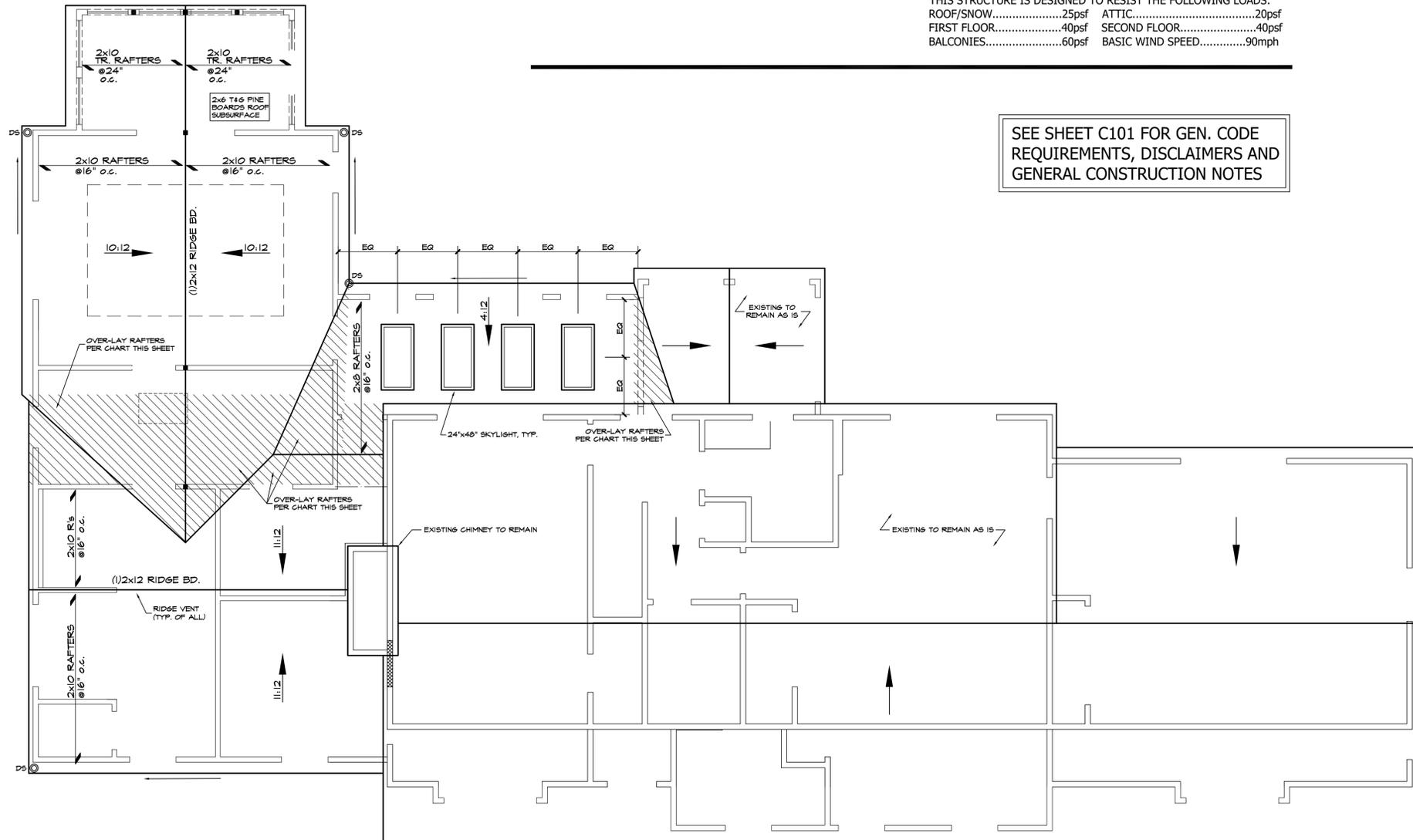
THIS STRUCTURE IS DESIGNED TO RESIST THE FOLLOWING LOADS:  
 ROOF/SNOW.....25psf    ATTIC.....20psf  
 FIRST FLOOR.....40psf    SECOND FLOOR.....40psf  
 BALCONIES.....60psf    BASIC WIND SPEED.....90mph

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



**TYPICAL WALL SECTION (CRAWL SPACE)**  
 SCALE: 1/2" = 1'-0"

NOTE: SOME ITEMS DRAWN IN THESE TYPICAL WALL SECTIONS ARE DIAGNOSTIC AND NOT NECESSARILY TO THE EXACT SCALE OR PITCH. PLEASE REFER TO TYPED NOTES ALONG SIDE & TYPED DIMENSIONS.



**ROOF PLAN**  
 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:

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### WINDOWS:

ALL WINDOWS AND SIZES ARE DRAWN NOMINAL INCHES.

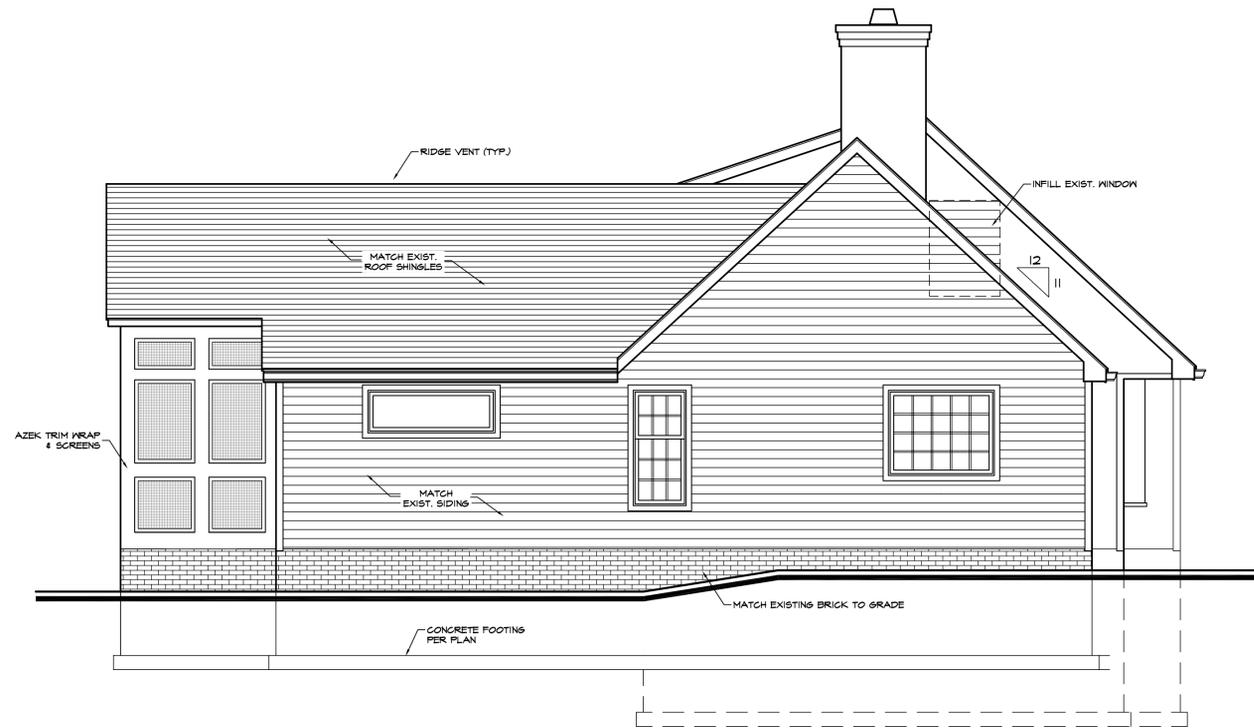
WINDOWS WITHIN 36" HORIZONTIALLY & 60" VERTICALLY OF A TUB OR SHOWER MUST BE TEMPERED.

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



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



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



## 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.

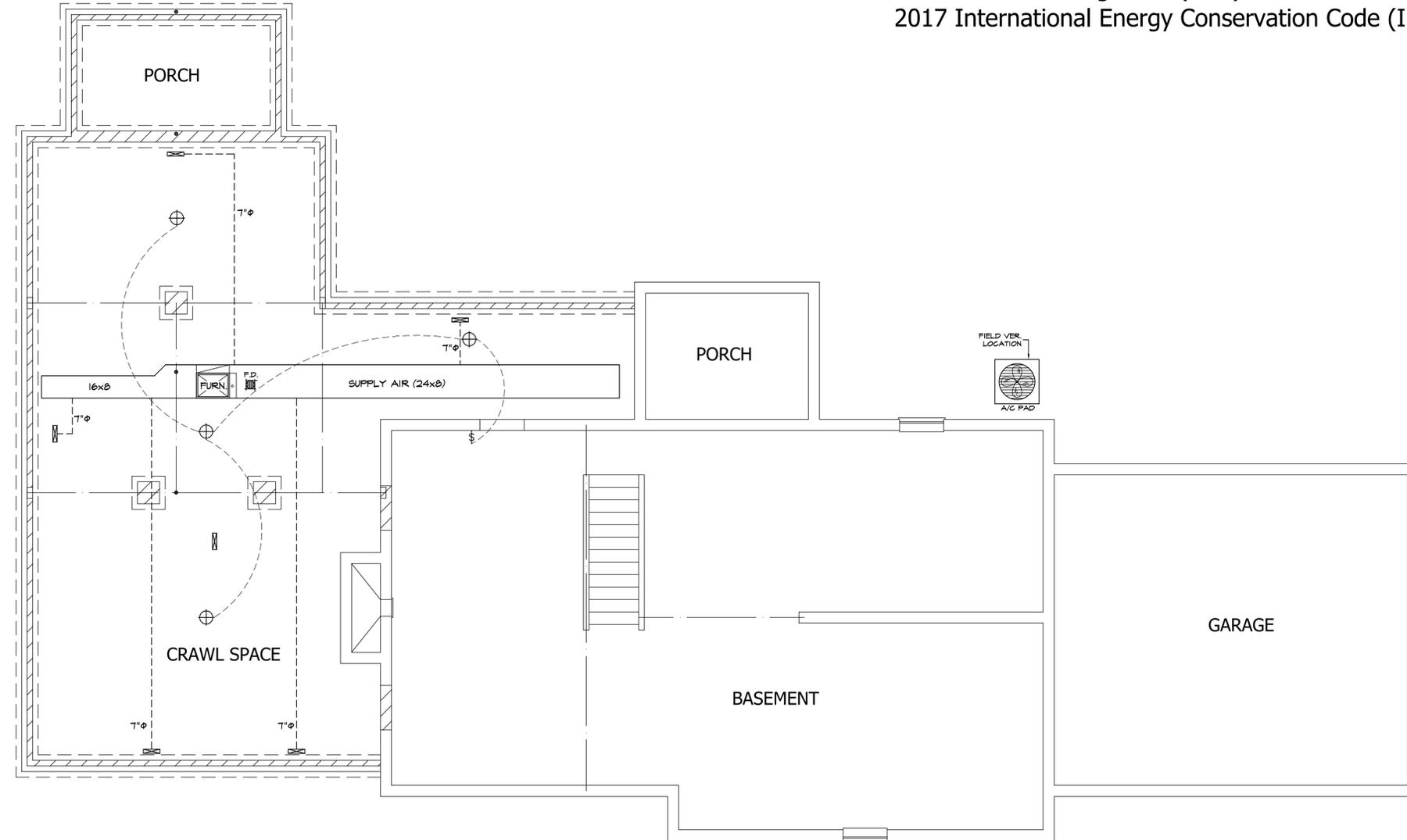
### DISCLAIMER:

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 ANY 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 DUCTWORK IN UNCONDITIONED SPACES TO HAVE R-8 INSULATION OR R-6 FOR EXHAUST PER RCO 1105.3.2.1

NOTE: IECC REQUIRES THAT AIR INFILTRATION MOVES FROM A 5 TO A 3

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)

BASEMENT MECHANICAL  
 S: 1/4" = 1'-0"





7650





