

Neil A. Safran, License # 11390
Professional Engineer



PROPOSED
Porch Addition
For:
The Trusso Residence
7273 Walters Rd.
Hudson, Ohio

CODE SUMMARY & DESIGN CRITERIA

2018 RESIDENTIAL CODE OF OHIO
2017 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
NFPA 70(NATIONAL ELECTRIC CODE)
ORDINANCES OF HUDSON, OHIO
ZONING CODE OF HUDSON, OHIO
DESIGN SNOW LOAD:
SECTION 201 DESIGN CRITERIA
FIGURE 201.2(1) DESIGN SNOWLOADS
ROOF SNOW LOAD = 20 PSF
DESIGN WIND LOAD:
TABLE 601.2(1) COMPONENT AND CLADDING LOADS FOR A
BUILDING WITH A MEAN ROOF RISE OF 30 FEET LOCATED
IN EXPOSURE B
115 MPH (V U.L. DESIGN) (3 SECOND GUST)

BUILDING DATA

SQUARE FOOTAGE
NEW PORCH ADDITION 225 SF
NEW DORMER ADDITION 1X

DRAWING INDEX

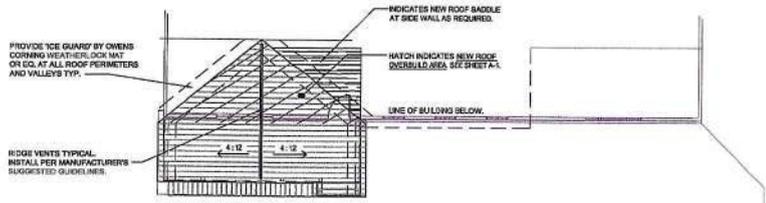
NO.	CONTENTS
T-S	TITLE SHEET, SITE PLAN, ROOF PLAN, CODE SUMMARY & DRAWING INDEX
A-1	FOUNDATION PLAN AND PARTIAL FIRST FLOOR PLAN
A-2	ELEVATIONS

STRUCTURAL DESIGN ASSUMPTIONS

FRAMING LUMBER (MIN.):
S = 1,800,000 PSI
F_b = 850 PSF
F_v = 80 PSF
MICROLAM (LVL):
E = 2,000,000 PSI
F_b = 2800 PSI
F_v = 200 PSI
STEEL: ASTM A-36
E = 29,000,000 PSI
F_y = 22 KSI
F_u = 42 KSI
SOIL BEARING CAPACITY
(MIN.): 2000 PSF

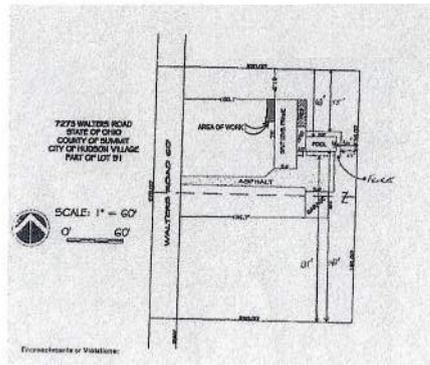
ALLOWING DEFLECTION:
RAFTERS - L/240
COLUMNS - L/50
FLOORS - L/360
BEAMS & BRACKERS - L/600
(L = SPAN LENGTH)
LIVE LOADS:
ROOF = 20 PSF
FLOOR = 40 PSF
CEILING = 20 PSF
ATTIC = 20 PSF
(EXTENDS) = 50 PSF

DEAD LOADS:
ROOF = 10 PSF
COLUMNS = 10 PSF
FLOOR = 10 PSF
CONCRETE:
WALLS: 120 PCF, F_c = 3000 PSI
FLOOR SLAB: 150 PCF, F_c = 3000 PSI
EXTENSION: 150 PCF, F_c = 3000 PSI
TO HAVE 8% CONTRACTURE
REBAR: ASTM A618 GR 60
SW: ASTM A118
SLAB: 4" MAXIMUM



SCHEMATIC ROOF DIAGRAM

* NOTE: PROVIDE "ICE GUARD" CONTINUOUS AT ALL ROOF SHEATHING LESS THAN 4:12 SLOPE
SCALE 1/8" = 1'-0"



SITE PLAN

SCALE 1" = 60'

GENERAL NOTES

- 1) SAFRAN STUDIO, DOES NOT ASSUME LIABILITY FOR ANY CHANGES OR MODIFICATIONS MADE TO THESE PLANS BY OTHERS.
- 2) THE BUILDER & SUB-CONTRACTORS TO WARRANT THAT ALL CONSTRUCTION AND INSTALLATION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL LOCAL, STATE AND FEDERAL CODES. SEE CODE SUMMARY THIS SHEET.
- 3) THE BUILDER IS TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING. DIMENSIONS SHOWN ALWAYS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DIMENSIONS ARE TO FACE OF EXTERIOR SHEATHING AND FACE OF FINISH ON INTERIOR PARTITIONS.

STRUCTURAL NOTES

- 1) THE DRAWINGS SHOW THE GENERAL DETAILS OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT WHERE ADDITIONAL DETAILS ARE REQUIRED, OR WHERE CONDITIONS ARE ENCOUNTERED THAT ARE NOT ANTICIPATED BY THE DRAWINGS.
- 2) THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS PRIOR TO FABRICATION AND CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- 3) THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTIVE AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WATER-TIGHT SHORING, TEMPORARY BRACING, UNDERPINNING, EARTH RETENTION, ETC. THAT MAY BE NECESSARY.

STRUCTURAL FRAMING NOTES

DECK FRAMING MATERIALS:
ALL STRUCTURAL FRAMING LUMBER MUST BE 9" PRESSURE TREATED LUMBER SHALL BE PRESSURE TREATED SOUTHERN PINE #1 (OR BETTER)
CONCRETE:
FOOTINGS F_c = 3000 PSI
MULTIPLE BEAMS SHALL BE FASTENED TOGETHER WITH LIDGERLOCK SCREWS AT 6" O.C. MAX. SPACERS REQUIRED AND LVL
ALL METAL FASTENERS, CONNECTORS OR OTHER HARDWARE IN DIRECT CONTACT WITH ANY PRESERVATIVE TREATED LUMBER SHALL BE STAINLESS STEEL TYPE 304 OR TYPE 316 OR BE COATED OR LINED PER ASTM 123 (CONNECTORS) OR ASTM FASTENERS CLASS D STANDARDS FOR FASTENERS AND HARDWARE. OTHER HARDWARE SUCH AS NAILS AND THIS SHALL MEET ASTM A63 OR A-66 (TREATMENT PRIOR TO FABRICATION) OR ASTM 123 (TREATMENT AFTER FABRICATION).



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Sheet
2021 - 52
Title Sheet
Scale As Shown
T-S

2nd. A-HBR REVIEW Mtg. 08/22/2022	
2nd. A-HBR REVIEW Mtg. 08/15/2022	
ARB REVIEW Mtg. BD/PERMIT 4/11/22	
Struct. review 4/2/22	
Revision/Issue /Date	

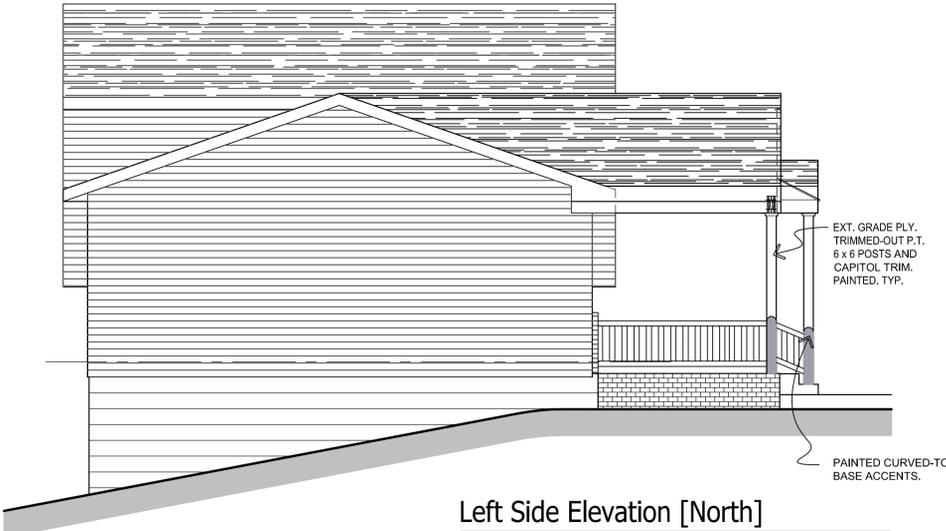
NEIL A. SAFRAN License #11380
Expiration Date 12/31/2023



Front Elevation [West]

NOTE:
ALL EXTERIOR WALLS, WINDOWS AND DOORS
IN THE ABOVE ELEVATION ARE EXISTING TO REMAIN
AS-IS, UNLESS NOTED OTHERWISE.

SCALE 1/4" = 1'-0"



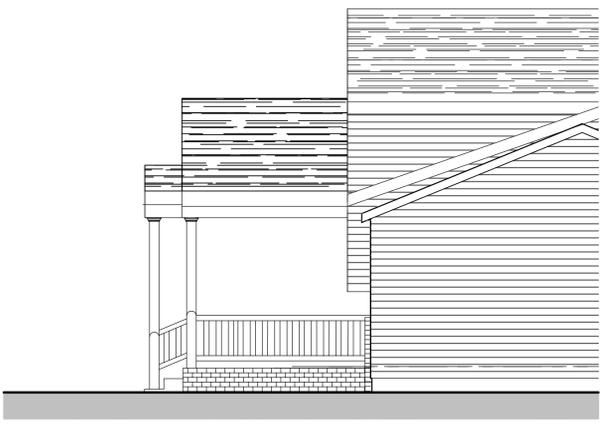
Left Side Elevation [North]

SCALE 1/4" = 1'-0"



Exist. / Demo. Front Elevation

SCALE 1/4" = 1'-0"



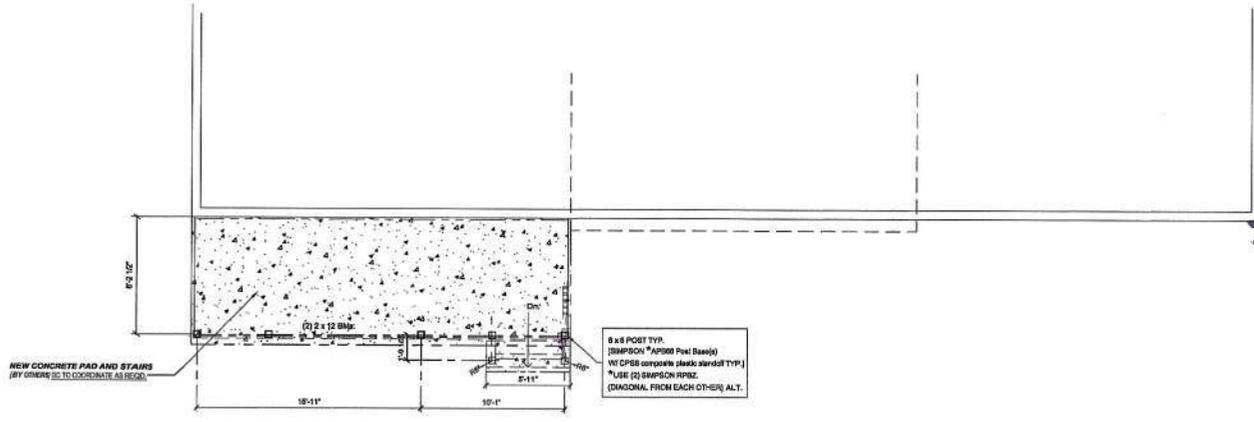
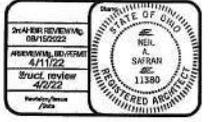
Partial Right Side Elevation [South]

SCALE 1/4" = 1'-0"

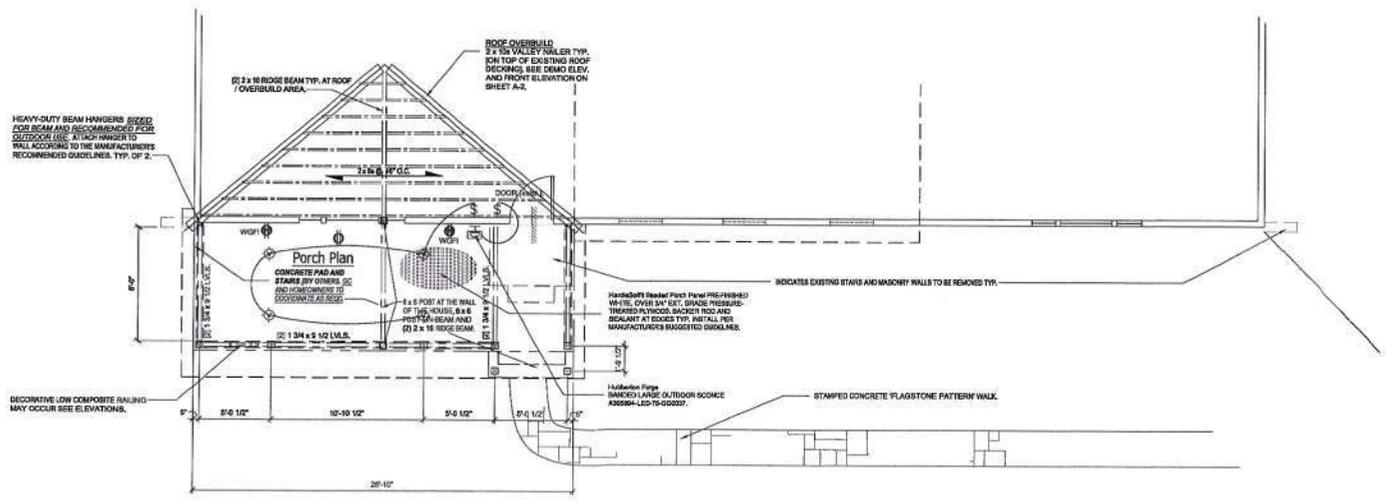
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Safran Studio Job # 2017 - 32	Sheet
Sheet Contents Front & Side Elevations	A-2 alt.
Scale Scale 1/4" = 1'-0"	



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



[Partial] FIRST FLOOR PLAN
SCALE 1/4" = 1'-0"

NOTE:
ALL INTERIOR AND EXTERIOR WALLS, WINDOWS AND DOORS IN THE ABOVE LAYOUT ARE EXISTING TO REMAIN AS-IS, UNLESS NOTICED OTHERWISE.

SYMBOL LEGEND

- NOTE:
1) ALL LIGHTS NEAR WET AREAS ARE TO BE WATERPROOF TYPE AND SWITCHED SEPARATELY ON A GFI CIRCUIT.
2) THE CONTRACTOR SHALL VERIFY THAT THERE IS A COMPLETE SYSTEM OF GROUNDING FOR ALL ELECTRICAL EQUIPMENT.
- | | | | |
|-----|--|----|--|
| WDP | WEATHER PROOF GFI DUPLEX PRECEPTACLE | H | Hubbeller Forge DANGER LABEL OUTDOOR SCIENCE #00984-LED-75-00037 |
| ⊕ | RECESSED OUTDOOR LIGHT W/ VAPOR PROOF LENS | \$ | SINGLE POLE SWITCH |



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Sheet No. of 2021-52
Sheet Contents: Partial 1st Floor Plan
Scale 1/4" = 1'-0"
A-1









7273

7273





