

GENERAL NOTES

1. ALL REFERENCES IN THIS SECTION ARE IN ACCORDANCE WITH THE OHIO BUILDING CODE (OBC) 2017 EDITION. ALL AREAS OF THIS BUILDING ARE TO MEET OR EXCEED THE STANDARDS REQUIRED THEREIN.

2. BUILDING USE GROUP --- S-1
USE: GARAGE FOR STORING ANTIQUE CAR
CONSTRUCTION TYPE --- 3B, UNPROTECTED
HEIGHT AND AREA LIMITATIONS PER TABLE 503.0 :

ALLOWED	ACTUAL
HEIGHT --- 55 FT, 4 STORY	29 FT 4 1/2 IN, 1 STORY
AREA --- 19,000 SQ FT	GARAGE---2500 SQ FT

3. BUILDING PROJECT: NEW GARAGE

4. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER COMPLETION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION.

5. THE ENGINEER CERTIFIES THAT THIS DESIGN IS IN ACCORDANCE WITH CURRENT APPLICABLE CODES AND SPECIFICATIONS. RESPONSIBILITY TO FOLLOW THIS DESIGN IS THAT OF THE CONTRACTOR'S. ENGINEER WILL TAKE NO RESPONSIBILITY FOR CONTRACTOR'S FAILURE TO CONFORM TO THE DRAWINGS AND SPECIFICATIONS.

ELECTRICAL NOTES

- ELECTRICAL
1. ALL NEW ELECTRICAL WORK TO COMPLY WITH OBC SECTION 27 AND LATEST EDITION OF THE NATIONAL ELECTRIC CODE.
- MECHANICAL NOTES
- HEATING AND VENTILATION
1. NONE

2. THERMAL INSULATING MATERIALS MEET OR EXCEED THE REQUIREMENTS OF SECTION 719, OBC 2017.

PLUMBING NOTES

- PLUMBING
1. SEE PLAN

2. EXISTING RESTROOMS IN EXISTING BUILDING WITHIN 500'

VENTILATION

- VENTILATION
1. NATURAL VENTILATION PROVIDED PER SECTION 1203.4.1 REQUIRED (4% OF FLOOR AREA) 100 SQ FT

ACTUAL SQ FT 281 SQ FT

EGRESS

- MEANS OF EGRESS
1. OCCUPANT LOAD PER SECTION 1004, § TABLE 1004.1.1 :

CALCULATED	5
ACTUAL	2

2. NUMBER AND LOCATION OF EXITS MEETS OR EXCEEDS THE REQUIREMENTS OF TABLE 1005.1, AND SECTIONS 1014, 1018, § 1019, OBC 2017. CAPACITY OF EGRESS COMPONENTS MEETS OR EXCEEDS THE REQUIREMENTS OF SECTION 1005. HARDWARE FOR ALL EGRESS DOORS SHALL MAINTAIN DOORS READILY OPENABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT PER SECTION 1008.1.8. DRAW BOLTS, HOOKS, FLUSH AND SURFACE BOLTS, AND OTHER SIMILAR DEVICES ARE PROHIBITED ON ALL EGRESS DOORS EXCEPT AS PERMITTED PER SECTIONS 1008.1.8.3 AND 1008.1.8.6.

VICINITY MAP



PROJECT SITE LOCATION



SHEET INDEX1

- | | |
|----|---------------------------|
| 1 | C-1 Title Sheet |
| 2 | C-2 Site Plan |
| 3 | A-1 First Floor Plan |
| 4 | A-2 Front/Rear Elevations |
| 5 | A-3 Right/Left Elevations |
| 6 | A-4 Sections |
| 7 | S-1 Genaral Notes |
| 8 | S-2 Foundation Plan |
| 9 | S-3 Truss Layout |
| 10 | E-1 Electrical Notes |



PLAN NUMBER
STORAGE GARAGE0-1743
50X50 CARPACH
5790 HUDSON DR.
HUDSON OH 44236

DRAWN BY

STEVE DONANT

Room sizing and total square feet may vary with elevation changes.
Rough openings and hallways may vary.

Elevations are Artist's conceptions.

REVISIONS

NAME	DATE
STEVE D.	7/5/23

SCALE

1 : 1

SHEET NAME

Title Sheet

SHEET NUMBER

C-1 OF 10

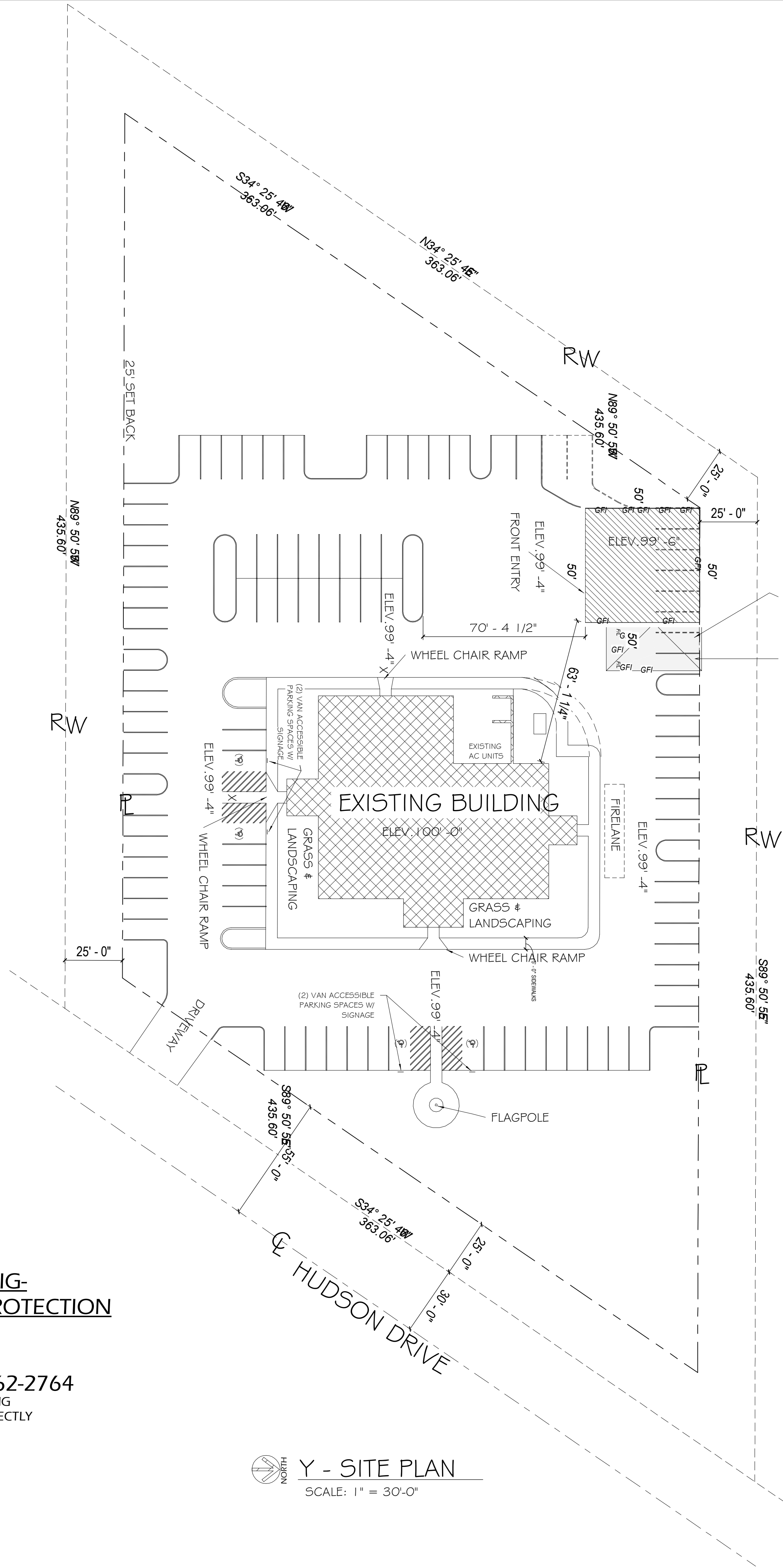
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SERVICE

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2 WORKING DAYS BEFORE YOU DIG
NON-MEMBERS MUST BE CALLED DIRECTLY

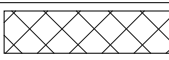
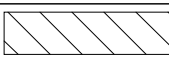


 NORTH
Y - SITE PLAN
SCALE: 1" = 30'-0"

***GRADE PLANE NOTE:**

GRADE PLANE = 99'-4" ±
(AVERAGE FINISHED GROUND LEVEL) ADJOINING
BUILDING (@6FT. FROM BUILDING PER SECTION
502.1, OBC 2007) AS CALCULATED FROM THE
FINISHED MAIN FLOOR REFERENCE
ELEVATION = 99'-6"

LINETYPE LEGEND

LINETYPE	DESCRIPTION
---	PROPERTY LINE
----	ROAD / STREET EDGE R/W
----	STREET CENTERLINE
----	SET BACK LINES
	EXISTING BUILDING
	NEW BUILDING

(330) 267-1341

HOME BY
DESIGN

PLAN NUMBER

STORAGE GARAGE 0-1743

50Y50 C A R P A G E
5790 HUDSON DR.
HUDSON OH 44236

DRAWN BY

STEVE DONANT

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may vary with elevation changes.
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REVISIONS

NAME	DATE
STEVE D.	7/5/23

SCALE

As indicated

SHEET NAME

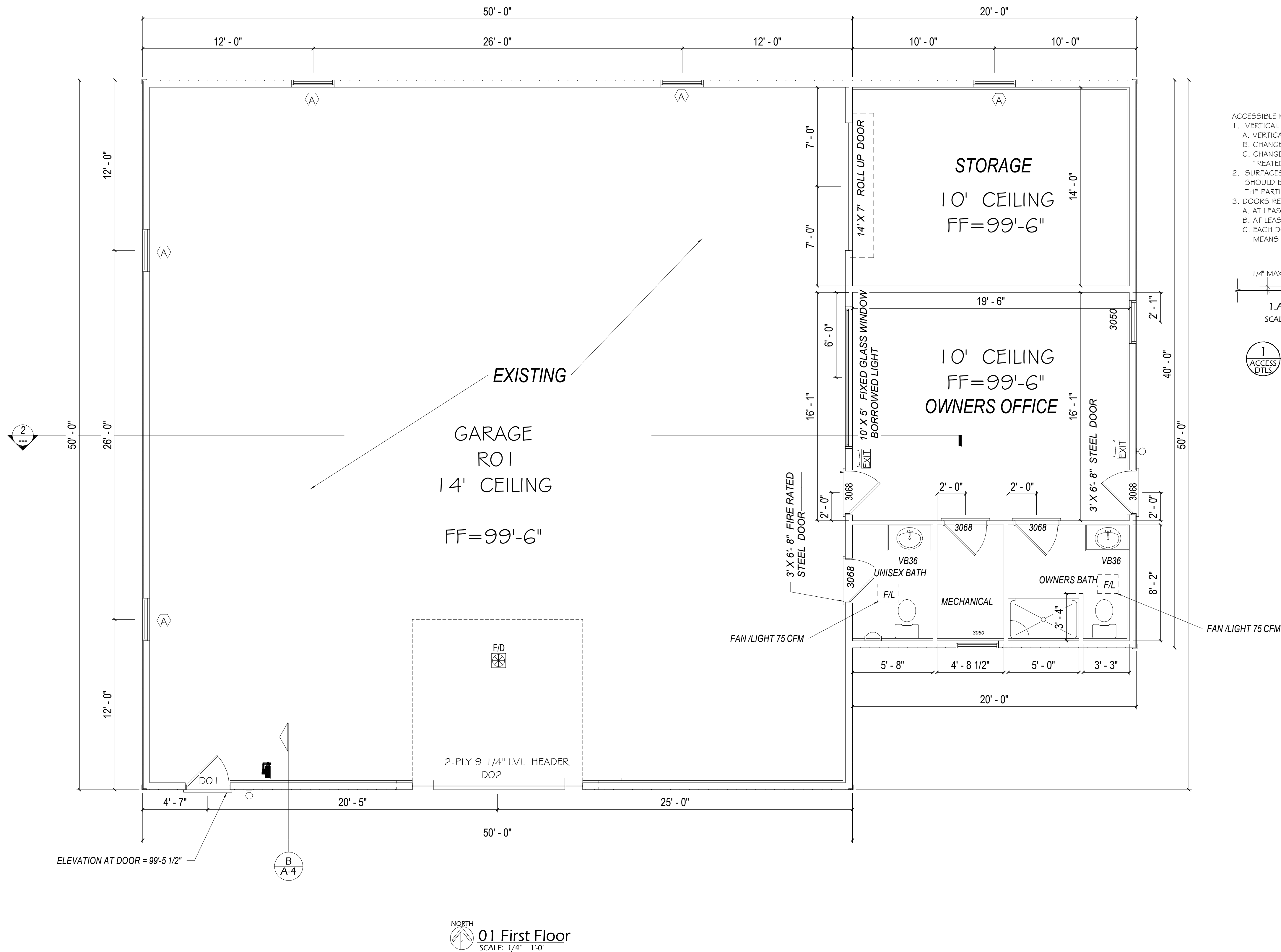
Site Plan

SHEET NUMBER

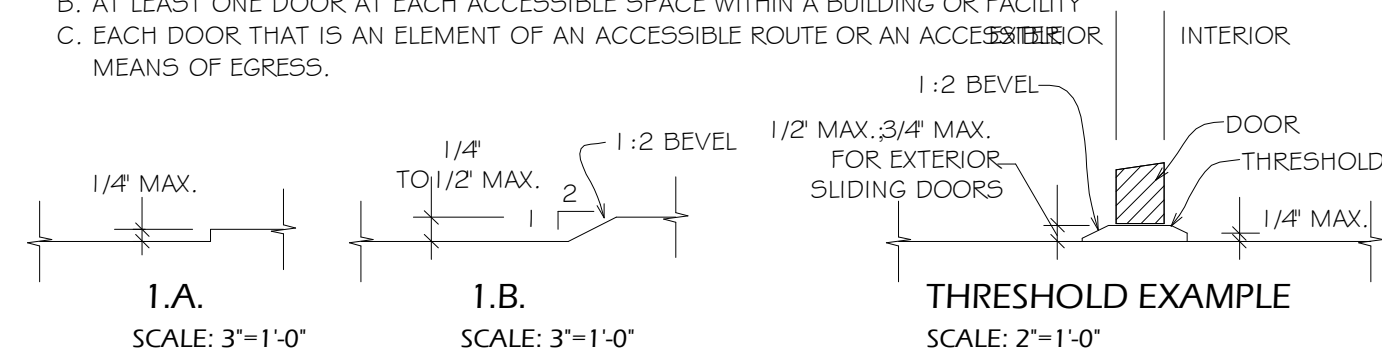
LOT # 15-2 OF 10

DRAWING STATUS: DRAFT

130681 SF
3.00 acres



- ACCESSIBLE ROUTES AND SPACES, INTERIOR AND EXTERIOR, TO COMPLY AS FOLLOWS:
1. VERTICAL CHANGES IN LEVEL:
 - A. VERTICAL CHANGES UP TO 1/4" ARE PERMITTED WITHOUT TREATMENT.
 - B. CHANGES IN LEVEL 1/4" TO 1/2" MUST BE BEVELED WITH A MAXIMUM SLOPE OF 1:2.
 - C. CHANGES IN LEVEL GREATER THAN 1/2" WHERE SLOPE IS MORE THAN 5% MUST BE TREATED AS A CURB RAMP OR RAMP.
 2. SURFACES MUST BE STABLE, FIRM AND SLIP-RESISTANT. SLIP-RESISTANCE SHOULD BE SPECIFIED ACCORDING TO CONDITIONS LIKELY TO BE FOUND ON THE PARTICULAR SURFACE (EXAMPLE: EXPOSED TO WEATHER).
 3. DOORS REQUIRED TO BE ACCESSIBLE INCLUDE:
 - A. AT LEAST ONE DOOR AT EACH ACCESSIBLE ENTRANCE
 - B. AT LEAST ONE DOOR AT EACH ACCESSIBLE SPACE WITHIN A BUILDING OR FACILITY
 - C. EACH DOOR THAT IS AN ELEMENT OF AN ACCESSIBLE ROUTE OR AN ACCESSIBLE MEANS OF EGRESS.



1 ACCESSIBLE ROUTES-INTERIOR AND EXTERIOR
SCALE: AS NOTED

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	PORTABLE EXTINGUISHER, NFPA 10
	POSTING OF OCCUPANT LOAD: ASSEMBLY ROOM OR SPACE REQUIRED TO HAVE OCCUPANT LOAD OF THAT SPACE POSTED IN A CONSPICUOUS SPACE NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY; SIGN TO BE OF APPROVED LEGIBLE PERMANENT DESIGN PER SECTION 1004.3, OBC 2007
	TACTILE EXIT SIGNAGE: TACTILE SIGN STATING "EXIT", COMPLYING WITH ADAAG, TO BE PROVIDED ADJACENT TO EACH DOOR TO AN EGRESS STAIRWAY, EXIT PASSAGEWAY AND THE EXIT DISCHARGE, PER SECTION 1011.3, OBC 2007

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PLAN NUMBER
STORAGE GARAGE 0-1743

5050 CARRAGE
5790 HUDSON DR.
HUDSON OH 44236

DRAWN BY
STEVE DONANT

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may vary with elevation changes.
Rough openings and
hallways may vary.

Elevations are Artist's conceptions.

REVISIONS	
NAME	DATE
STEVE D.	7/5/23

SCALE
As indicated

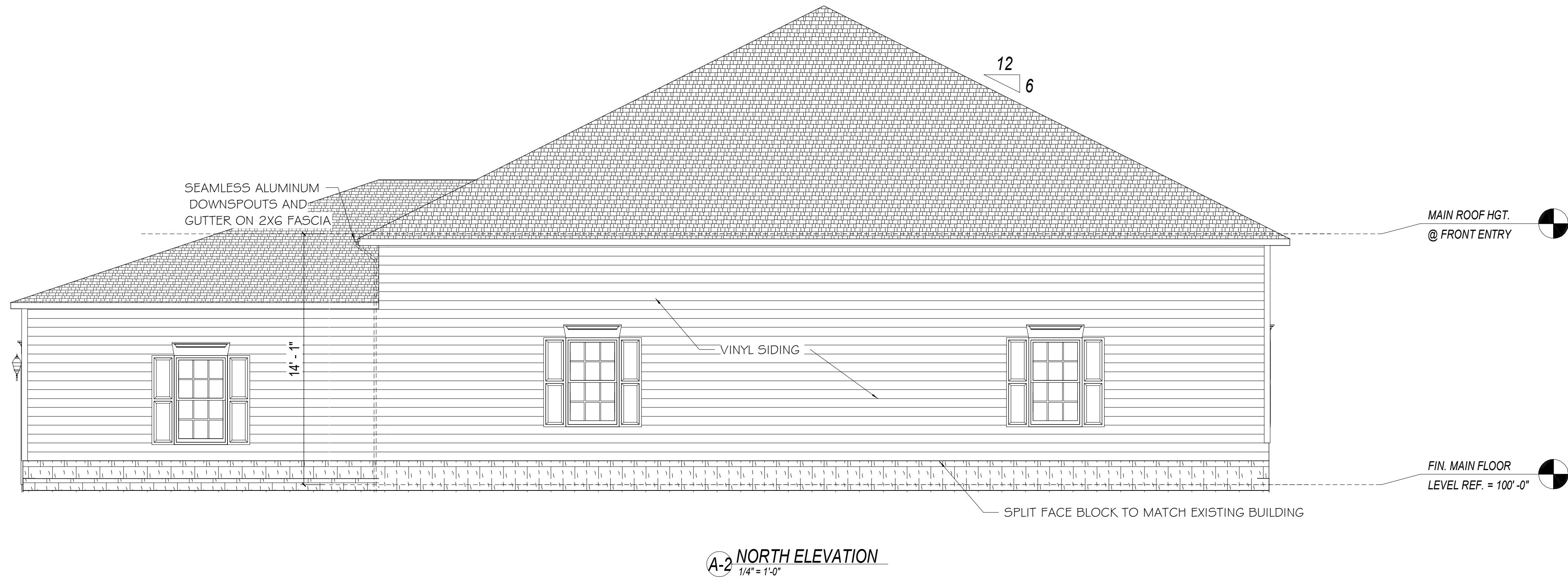
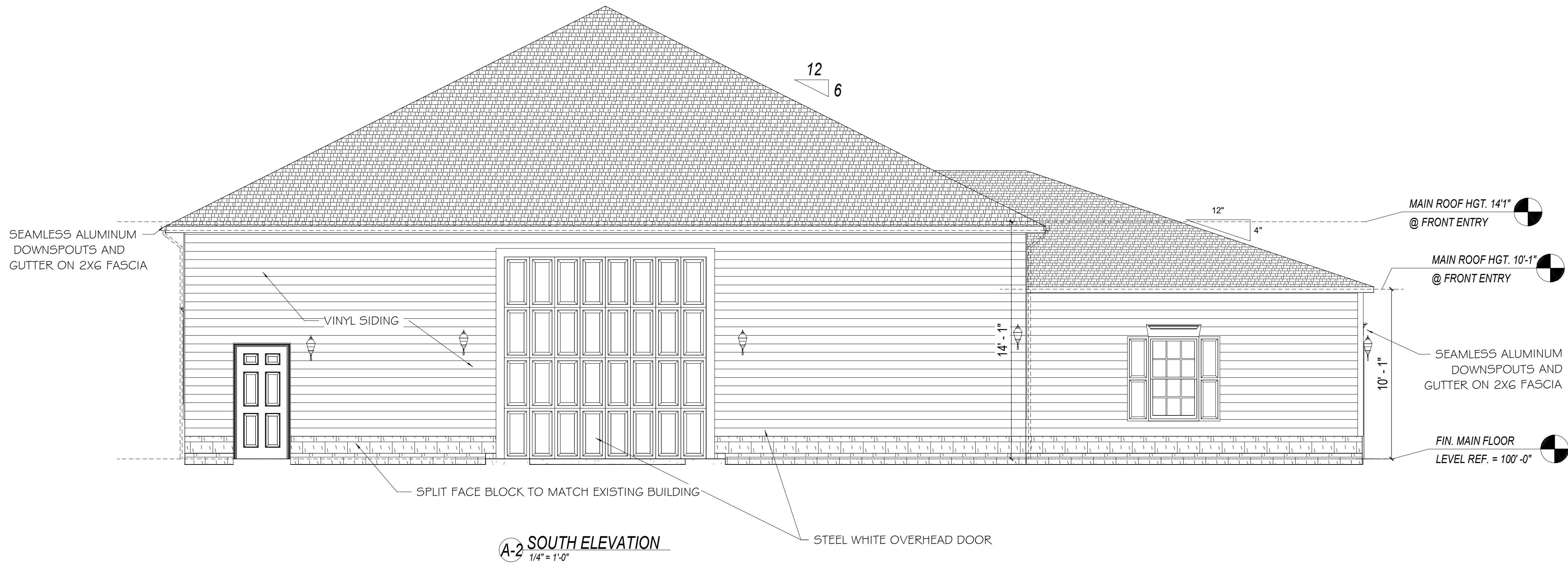
SHEET NAME
First Floor Plan

SHEET NUMBER

A-1 OF 10

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(330) 267-1341

HOME BY
DESIGN

PLAN NUMBER

STORAGE GARAGE 0-1743

50X50 CARPAC
5790 HUDSON DR.
HUDSON OH 44236

42

DRAWN BY
STEVE DONANT

Room sizing and total square feet may vary with elevation changes. Rough openings and hallways may vary.

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REVISIONS	
NAME	DATE
STEVE D.	7/5/23

SCALE
1/4" = 1'-0"

Garage 1024 SHEET NAME
Front/Rear Elevations

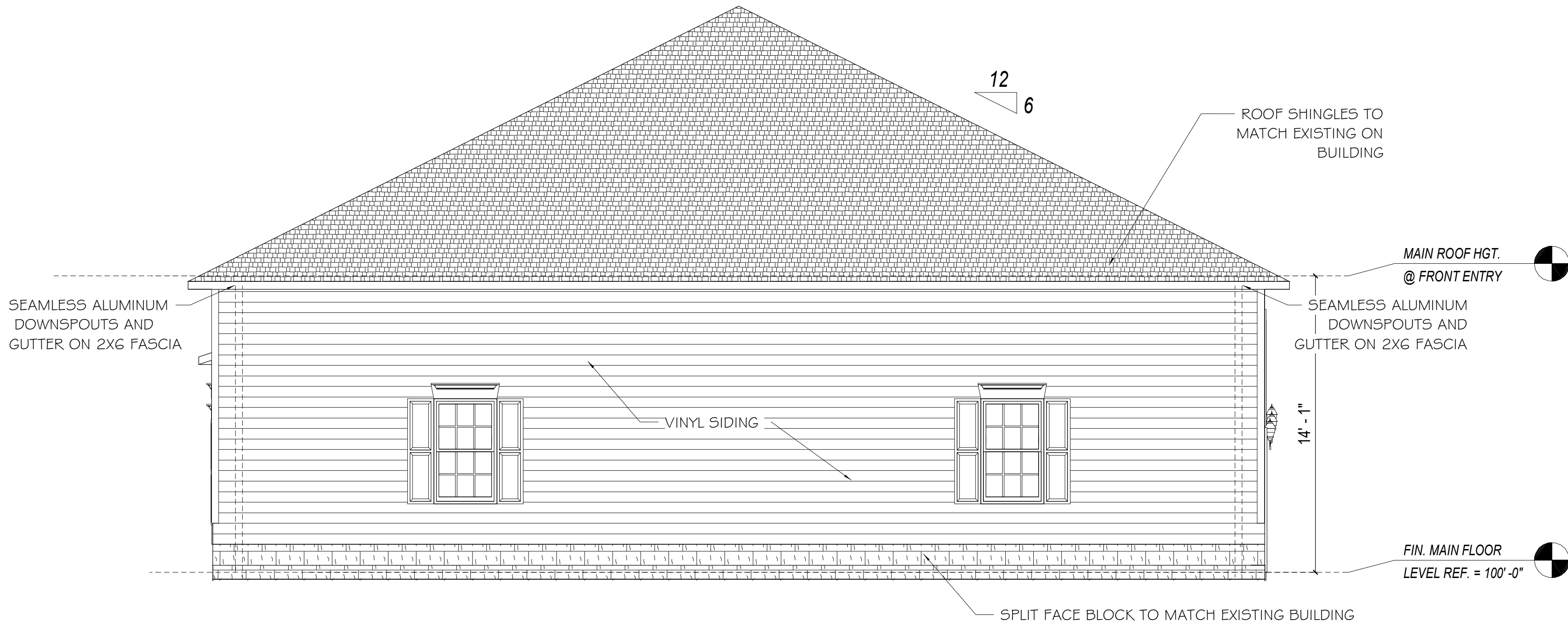
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A-2 OF 10

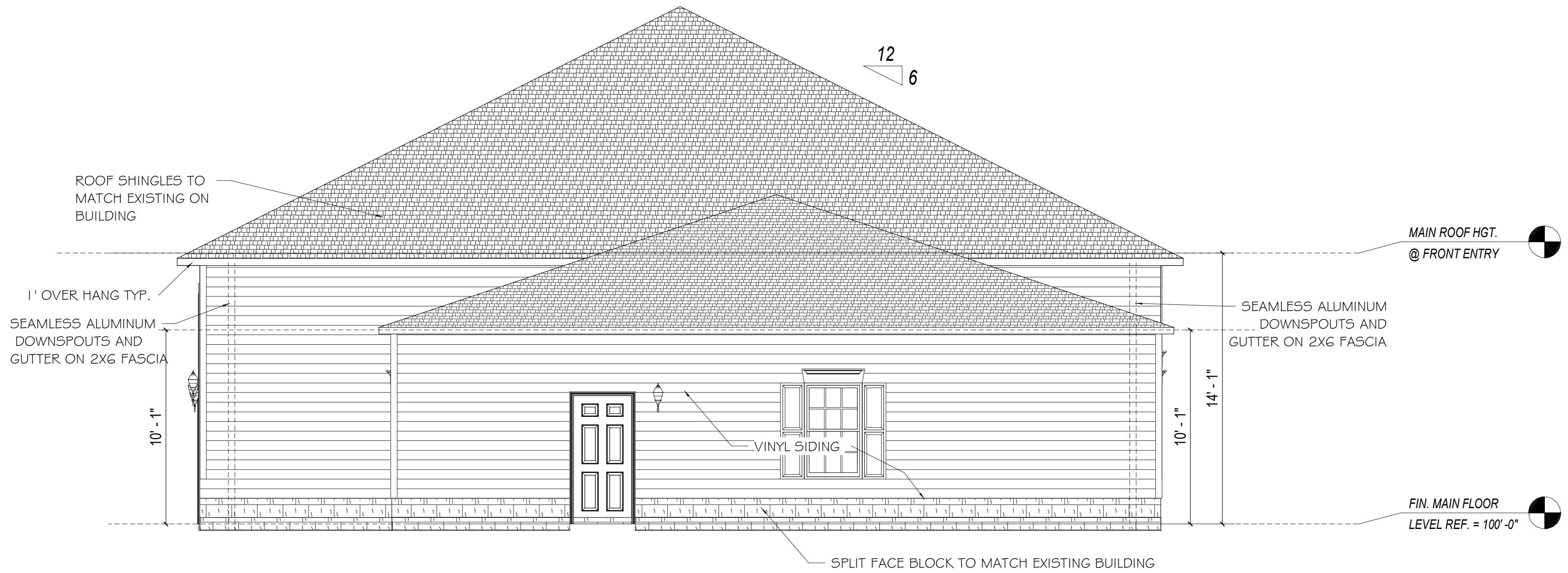
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A-3 WEST ELEVATION
1/4" = 1'-0"



A-3 EAST ELEVATION
1/4" = 1'-0"



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STORAGE GARAGE 0-1743
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REVISIONS	
NAME	DATE
STEVE D.	7/5/23

SCALE
1/4" = 1'-0"

SHEET NAME
Right/Left Elevations

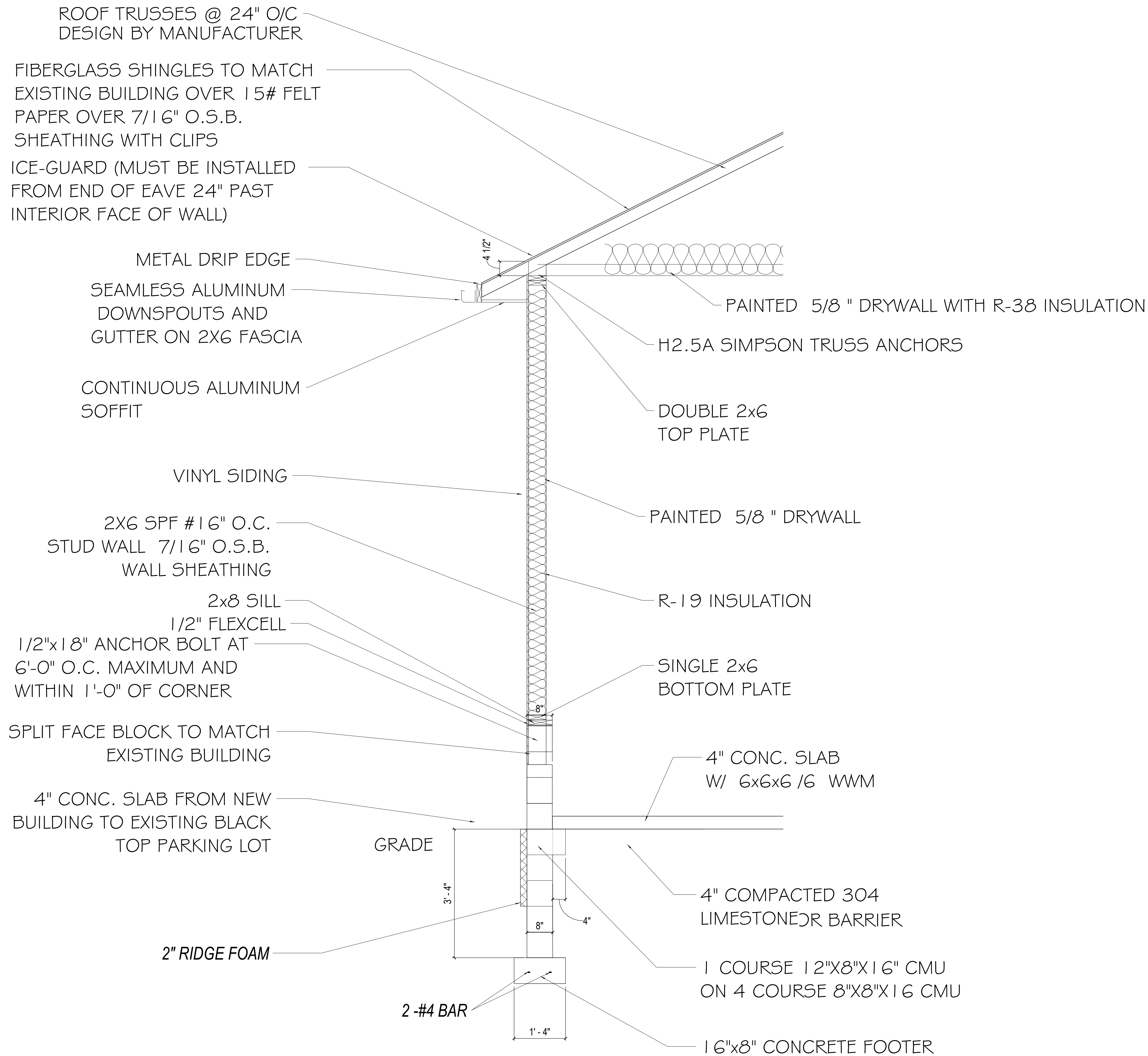
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A-3 OF 10

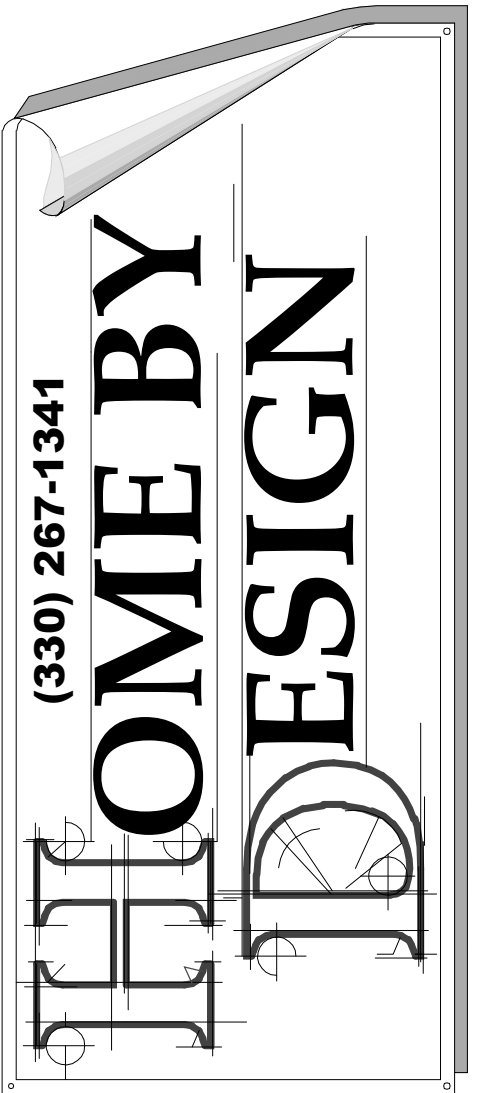
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WALL DETAIL
SCALE: 3/4" = 1'-0"



STORAGE GARAGE
50X50 CARPAC
5790 HUDSON DR.
HUDSON OH 44236

DRAWN BY
STEVE DONANT
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Elevations are Artist's conceptions.

REVISIONS	
NAME	DATE
STEVE D.	7/5/23
SCALE 3/4" = 1'-0"	

SHEET NAME
Sections
SHEET NUMBER
A-4 OF 10

DRAWING STATUS: DRAFT

GENERAL

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND TO CROSS-CHECK DETAILS AND DIMENSIONS ON THE STRUCTURAL DRAWINGS WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. FLOOR AND WALL OPENINGS, SLEEVES AND OTHER ARCHITECTURAL, MECHANICAL AND ELECTRICAL REQUIREMENTS MUST BE COORDINATED BEFORE THE CONTRACTOR PROCEEDS WITH CONSTRUCTION.
2. ALL ENGINEERING DESIGN, CONSTRUCTION AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF THE OHIO BUILDING CODE 2017 EDITION (HEREIN REFERRED TO AS THE CODE).
3. THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY, CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION, AND COMPLIANCE WITH LOCAL REGULATIONS REGARDING SAFETY IS, AND SHALL BE, THE CONTRACTOR'S RESPONSIBILITY.
4. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
5. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
6. BUILDING DESIGN IS BASED ON THE FOLLOWING LOADS:
- A. DESIGN DATA:
- ROOF DEAD LOAD = 10 PSF
- CEILING DEAD LOAD = 10 PSF
- B. SNOW DESIGN DATA:
- GROUND SNOW LOAD, P_g = 25 PSF
- FLAT ROOF SNOW LOAD, P_f = 21 PSF
- SNOW EXPOSURE FACTOR, C_e = 1.1
- SNOW LOAD IMPORTANCE FACTOR, I_s = 1.0
- THERMAL FACTOR, C_t = 1.0
- C. WIND DESIGN DATA:
- BASIC WIND SPEED = 90 MPH
- WIND IMPORTANCE FACTOR, I_w = 1.0
- OCCUPANCY CATEGORY = II
- WIND EXPOSURE = B
- WIND PRESSURE:
- MWFRS = 20 PSF
- COMPONENT & CLADDING = 30 PSF
- D. EARTHQUAKE DESIGN DATA:
- IMPORTANCE FACTOR = 1.0
- SEISMIC USE GROUP = I
- MAPPED SPECTRAL RESPONSE COEFFICIENTS:
- S_a = 0.150
- S₁ = 0.050
- S_{D5} = 0.160
- S_{D1} = 0.080
- SITE CLASS = D
- SEISMIC DESIGN CATEGORY = B
- BASIC SEISMIC-FORCE-RESISTING SYSTEM:
- LIGHT FRAME WALLS WITH SHEAR PANELS - WOOD/STEEL PANELS
- SEISMIC RESPONSE COEFFICIENT, C_s = 0.025 LBS
- RESPONSE MODIFICATION FACTOR, R = 6-1/2
- DESIGN BASE SHEAR = 10,000 LBS
- ANALYSIS PROCEDURE: SIMPLIFIED ANALYTICAL PROCEDURE

SHOP DRAWING REVIEW

1. KOEHLINGER ENGINEERING, L.L.C., WILL REVIEW CONTRACTORS SHOP DRAWINGS AND RELATED SUBMITTALS WITH RESPECT TO THE ABILITY OF THE DETAILED WORK, WHEN COMPLETE, TO BE A PROPERLY FUNCTIONING INTEGRAL ELEMENT OF THE OVERALL STRUCTURAL SYSTEM DESIGNED BY KOEHLINGER ENGINEERING, L.L.C..
2. BEFORE SUBMITTING A SHOP DRAWING OR ANY RELATED MATERIAL TO KOEHLINGER ENGINEERING, L.L.C., THE CONTRACTOR SHALL:
- A. REVIEW EACH SUCH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR;
- B. APPROVE EACH SUCH SUBMISSION BEFORE SUBMITTING IT; AND
- C. SO STAMP EACH SUCH SUBMISSION BEFORE SUBMITTING IT.
- THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY CHANGES OR DELAYS CAUSED BY PREMATURELY SUBMITTING SHOP DRAWINGS WITHOUT THE CONTRACTOR'S REVIEW AND STAMP. KOEHLINGER ENGINEERING SHOP DRAWING REVIEW AND STAMP DOES NOT ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND STAMP THE SAME SHOP DRAWINGS. KOEHLINGER ENGINEERING SHALL ASSUME THAT NO SHOP DRAWING OR RELATED SUBMITTAL COMPRISES A VARIATION UNLESS CONTRACTOR ADVISES KOEHLINGER ENGINEERING OTHERWISE VIA A WRITTEN INSTRUMENT WHICH IS ACKNOWLEDGED BY KOEHLINGER ENGINEERING, L.L.C., IN WRITING.
3. THE SHOP DRAWINGS AND RELATED MATERIAL (IF ANY) CALLED FOR SHALL BE INDICATED WITHIN THE GENERAL AND MATERIAL NOTES AND SPECIFICATIONS IF APPLICABLE. THE CONTRACTOR SHALL ALLOW TEN (10) DAYS FOR KOEHLINGER ENGINEERING, L.L.C., TO PERFORM THE REVIEW. KOEHLINGER ENGINEERING SHALL RETURN SHOP DRAWINGS AND RELATED MATERIALS WITH COMMENTS PROVIDED THAT EACH SUBMISSION HAS BEEN CALLED FOR AND IS STAMPED BY CONTRACTOR AS INDICATED ABOVE. KOEHLINGER ENGINEERING SHALL RETURN WITHOUT COMMENT MATERIAL NOT CALLED FOR.
4. THE SHOP DRAWINGS AND RELATED MATERIAL (IF ANY) CALLED FOR SHALL BE INDICATED WITHIN THE GENERAL AND MATERIAL NOTES AND SPECIFICATIONS IF APPLICABLE. THE CONTRACTOR SHALL ALLOW TEN (10) DAYS FOR KOEHLINGER ENGINEERING, L.L.C., TO PERFORM THE REVIEW. KOEHLINGER ENGINEERING SHALL RETURN SHOP DRAWINGS AND RELATED MATERIALS WITH COMMENTS PROVIDED THAT EACH SUBMISSION HAS BEEN CALLED FOR AND IS STAMPED BY CONTRACTOR AS INDICATED ABOVE. KOEHLINGER ENGINEERING SHALL RETURN WITHOUT COMMENT MATERIAL NOT CALLED FOR.
5. THE DESIGN AND FABRICATION CRITERIA OF ALL WOOD TRUSSES SHALL CONFORM TO ANSI/TPI-1-2017 AND THE NATIONAL DESIGN SPECIFICATIONS, SPECIFICALLY "NATIONAL DESIGN SPECIFICATIONS FOR STRESS-GRADE LUMBER AND ITS FASTENINGS" BY THE NATIONAL FOREST PRODUCTS ASSOCIATION INSTITUTE OF TIMBER CONSTRUCTION (LATEST REVISION), AND "DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES", BY THE TRUSS PLATE INSTITUTE (LATEST REVISION), THE SAME AS IF THOSE SPECIFICATIONS AND ALL THEIR REFERENCES WERE SET OUT IN FULL HEREIN.
6. TRUSSES SHOP DRAWINGS SHALL INDICATE THE MINIMUM INFORMATION INCLUDED IN ANSI/TPI-1-2017 INCLUDING THE REQUIRED LOCATION OF PERMANENT WEB BRACING. TRUSS DESIGNS SHALL CONTAIN THE FOLLOWING DESIGN AND FABRICATION DATA:
- A. DESIGN LOADINGS OF TRUSSES AND ALLOWABLE STRESS INCREASE; FORCE ANALYSIS OR BAR FORCES IN EACH MEMBER.
- B. LUMBER SPECIFICATIONS: PITCH, SPAN, AND SPACING OF TRUSSES; SPECIES AND STRESS GRADES OF LUMBER TO BE USED AS MEMBERS
- C. METAL CONNECTORS: GAUGE THICKNESS, NOMINAL SIZES AND LOCATIONS OF CONNECTORS AT ALL JOINTS.
- D. TRUSS BEARING SUPPORTS:
- 1.) SIZES AND LOCATION, TYPE(S)
- 2.) TRUSS-TO-TRUSS AND TRUSS-TO-BEAM CONNECTIONS SHALL BE SPECIFIED BY THE TRUSS DESIGN ENGINEER
- E. PERMANENT BRACING AND/OR BRIDGING - AS REQUIRED TO PREVENT COMPRESSION BUCKLING OF INDIVIDUAL TRUSS MEMBERS ONLY:
- 1.) PERMANENT TOP CHORD BRACING SHALL BE ACCOMPLISHED WITH SHEATHING OR PROPERLY ATTACHED PURLINS AND METAL ROOFING.
- 2.) PERMANENT BOTTOM CHORD BRACING SHALL BE ACCOMPLISHED WITH:
- a.) RIGID CEILING DIRECTLY APPLIED OR
- b.) PROPERLY ATTACHED LATERAL BRACES, NOT TO EXCEED 10'-0";
- c.) LATERAL BRACING SHALL BE RESTRAINED AT EACH END AND AT 20'-0" INTERVALS WITH DIAGONAL BRACING.
- 3.) PERMANENT WEB BRACING:
- a.) LATERAL BRACING SHALL BE LOCATED AS SPECIFIED BY THE TRUSS DESIGNER AND SHOWN ON THE ENGINEERED TRUSS DRAWINGS.
- b.) DIAGONAL BRACING, FASTENED TO THE SAME MEMBERS AS THE LATERAL BRACING, BUT ON THE OPPOSITE EDGE, TO BE SPACED NOT MORE THAN 20'-0" BETWEEN BRACING EXTREMITIES OVER THE LENGTH OF THE BUILDING.
- 4.) ALL BRACING MEMBERS ARE TO BE OF MINIMUM 2X4 LUMBER AND FASTENED WITH A MINIMUM OF TWO 16d NAILS IN EACH TRUSS UNLESS OTHERWISE SPECIFIED.
- 5.) T-BRACES MAY BE USED IN PLACE OF LATERAL AND DIAGONAL BRACES. T-BRACES SHALL BE 2X4 IF ONE LATERAL BRACE IS REQUIRED, OR 2X6 IF TWO LATERAL BRACES ARE REQUIRED. A T-BRACE MUST RUN THE FULL LENGTH OF A WEB AND BE NAILED AT 12 INCHES ON CENTER.
- F. ERECTION AND BRACING OF TRUSSES SHALL BE IN ACCORDANCE WITH WTCA / TPI PUBLICATION "BUILDING COMPONENT SAFETY INFORMATION - GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" 2017 EDITION.

CONCRETE

1. ALL READY MIX CONCRETE SHALL CONFORM TO ASTM C 94.
2. ALL REINFORCING STEEL SHALL BE PLACED IN CONFORMANCE WITH THE LATEST EDITION OF "THE MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION", PUBLISHED BY C.R.S.I.
3. ALL REINFORCING BARS, DOWELS, ANCHOR BOLTS AND OTHER INSERTS SHALL BE SECURED IN POSITION PRIOR TO PLACING OF CONCRETE.
4. ALL HORIZONTAL BARS IN CONCRETE, WALLS AND GRADE BEAMS SHALL BE CONTINUOUS AND BENT AT ALL CORNERS AND INTERSECTIONS. PRE-BENT "CORNER" BARS SUBSTITUTED FOR CONTINUOUS BENT BARS SHALL BE OF SAME SPACING AS HORIZONTAL BARS AND SHALL BE OF SUFFICIENT LENGTH TO PROVIDE REQUIRED LAP SPICE LENGTHS.
5. DETAILING, BENDING AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE ACI CODE.
6. ALL CONCRETE FORM WORK SHALL BE ADEQUATELY TIED TOGETHER AND BRACED TO FORM TRUE LINES, SQUARE CORNERS AND PLUMB WALLS.
7. ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO CHAPTER 19 OF THE OBC 2017 EDITION.
8. MIX DESIGN SHALL BE BASED ON PERFORMANCE TEST AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AND GENERAL CONTRACTOR.
9. USE AIR-ENTRAINED CONCRETE FOR ALL AREAS EXPOSED TO WEATHER.
10. ALL CONCRETE SHALL DEVELOP THE FOLLOWING COMPRESSIVE STRENGTHS AT 28 DAYS (U.N.O.):
- CONCRETE FOUNDATION AND WALLS = 3000 PSI
- CONCRETE SLABS = 3500 PSI
11. NO CONCRETE SHALL BE POURED SUBJECT TO FREEZING CONDITIONS OR ON FROZEN GROUND.
12. LOCATE ALL SLEEVES, OPENINGS, EMBEDDED ITEMS, ETC., WHICH ARE INDICATED ON ALL DESIGN DRAWINGS. CHECK WITH OTHER TRADES TO VERIFY THAT ALL SLEEVES, OPENINGS AND EMBEDDED ITEMS ARE IN PLACE AND LOCATED CORRECTLY PRIOR TO PLACING OF CONCRETE.
13. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS OR ACCESSORIES REQUIRED TO BE CAST IN CONCRETE AND FOR LOCATIONS OF FLOOR FINISHES AND SLAB DEPRESSIONS.
14. FOOTINGS SHALL BE LOCATED ON THE CENTER LINE OF WALLS, PIERS, OR COLUMNS, UNLESS NOTED OTHERWISE.
15. PROCEDURES FOR PLACEMENT OF CONCRETE SHALL BE IN STRICT CONFORMANCE WITH ACI 304, "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE."
16. BEAMS AND SLABS SHALL BE POURED MONOLITHICALLY, SO THAT NO HORIZONTAL CONSTRUCTION JOINTS ARE PROVIDED.
17. PIPE MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES, BUT SHALL NOT BE EMBEDDED THEREIN. SLEEVES SHALL BE WRAPPED WITH EXPANSION JOINT FILLER MATERIAL TO ALLOW CONCRETE TO CURE WITHOUT RESTRAINT. PIPES OR CONDUITS EXCEEDING ONE THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR LOCATIONS OF SLEEVES, ACCESSORIES, ETC.
18. CONCRETE SLABS ON GRADE SHALL BE POURED ON COMPACTED SUB GRADE OR UNDISTURBED SOIL. SLAB SURFACES SHALL BE SMOOTH AND LEVEL OR SHALL HAVE SMOOTH EVEN SLOPE. CONCRETE FINISH SHALL BE SMOOTH FOR INTERIOR FLOOR SLABS AND BROOMED FOR EXTERIOR WALKS.
19. THE SURFACE OF ALL CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE ALL DUST, CHIPS OR OTHER FOREIGN MATTER PRIOR TO PLACING THE ADJACENT CONCRETE.
20. SLAB CONTROL JOINTS SHALL BE INSTALLED WITH JOINT FORMERS WHEN THE SLAB IS POURED, OR SAWCUT AS SOON AS THE CONCRETE WILL ALLOW WITHOUT DAMAGE.

SPECIAL INSPECTIONS

1. IF REQUIRED BY THE GOVERNING BUILDING DEPARTMENT, THE CONTRACTOR SHALL EMPLOY AN APPROVED AGENCY TO PERFORM TESTS, INSPECTIONS, AND REPORTS AS REQUIRED BY THE OHIO BUILDING CODE, 2017 EDITION. CONSTRUCTION REQUIRING SPECIAL INSPECTION ARE LISTED BELOW. ALL TEST RESULTS AND REPORTS ARE TO BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
2. IF APPLICABLE, STEEL CONSTRUCTION SHALL HAVE SPECIAL INSPECTION AS INSTRUCTED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
3. IF APPLICABLE, CONCRETE CONSTRUCTION SHALL HAVE SPECIAL INSPECTION AS INSTRUCTED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
4. IF APPLICABLE, MASONRY CONSTRUCTION SHALL HAVE SPECIAL INSPECTION AS INSTRUCTED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

FOUNDATION

1. EXCAVATION, GRADING AND FILL/BACKFILL SHALL BE IN ACCORDANCE WITH SECTION 1803, OBC. ALL FILL AND BACKFILL MATERIALS SHALL BE NON COHESIVE SOILS COMPACTED TO 95% MAXIMUM DENSITY PER ASTM D 1557 METHOD, THE UPPER 6" OF SUB GRADE SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED.
2. NO SOILS REPORT WAS AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS. SHOULD ANY CONDITIONS BE ENCOUNTERED THAT ARE UNUSUAL OR DO NOT GIVE ASSUMED BEARING CAPACITIES, THE OWNER SHALL BE NOTIFIED AND WORK SHALL CEASE. WORK SHALL NOT RESUME UNTIL THE OWNER'S ENGINEER EVALUATES THE EXCAVATION AND GIVES WRITTEN NOTICE TO RESUME FOUNDATION WORK.
3. PRESUMTIVE MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 2500 PSF, BASED ON SANDY / LOAN

WOOD

1. ALL WOOD CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND ERECTED IN ACCORDANCE WITH N.D.S. AND THE LATEST EDITION OF THE AITC TIMBER CONSTRUCTION MANUAL..
2. ALL LUMBER SHALL BE MINIMUM NO. 1 / NO.2 SPF UNLESS INDICATED OTHERWISE.
3. ALL WOOD IN CONTACT WITH CONCRETE, MASONRY OR GROUND SHALL BE SOUTHERN PINE, PRESSURE TREATED FOR DECAY. RETENTION SHALL BE PER MANUFACTURER'S SPECIFICATIONS FOR THE PARTICULAR USE.
4. ALL FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE GALVANIZED WITH A MINIMUM G185 COATING.
5. ALL PLYWOOD DESIGNATED ON THE STRUCTURAL DRAWINGS SHALL BE DOUGLAS FIR, CONFORMING TO THE LATEST NATIONAL BUREAU OF STANDARDS "U.S. PRODUCT STANDARDS PS 1". PLYWOOD SHALL BE GRADE STAMPED CDX WITH EXTERIOR GLUE AND PANEL INDEX 24/16, UNLESS NOTED OTHERWISE.
6. STRUCTURAL PLYWOOD SHALL CONFORM TO U.S. PRODUCT STANDARD PS 1-83. STRUCTURAL USE PANELS SHALL CONFORM TO NER-108 (AFA FRP-108). A.P.A. GRADE STAMP SHALL BE PROVIDED ON ALL SHEATHING. ROOF AND FLOOR SHEATHING AND SHEAR WALL PANELS SHALL BE IN PLACE AND INSPECTED BY THE BUILDING OFFICIAL PRIOR TO COVERING. INSTALL WITH FACE GRAIN ACROSS SUPPORTS EXCEPT WHERE NOTED ON PLANS OR DETAILS. PROVIDE GAPS AT ALL EDGES AS SPECIFIED BY A.P.A.
7. PLYWOOD SHALL BE A.P.A. PERFORMANCE STAMPED, AS SPECIFIED ABOVE, GRADE STAMPED C-D, EXPOSURE.
8. ALL GLUE LAMINATED MEMBERS AS SHOWN ON PLANS SHALL BE IN ACCORDANCE WITH A.N.S.I. A190.1, A.I.T.C. OR A.P.A. INSPECTION CERTIFICATES SHALL BE FURNISHED WITH EACH BEAM. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW. GLUE LAMINATED MEMBERS SHALL BE OF INDUSTRIAL APPEARANCE WITH EXTERIOR GLUE.
9. NO WOOD MEMBER SHALL BE CUT, NOTCHED OR BORED, EXCEPT AS DETAILED OR PERMITTED BY THIS CODE.
10. ALL TOPS OF COLUMNS AND WALLS SHALL BE ADEQUATELY BRACED UNTIL THE ROOF SHEATHING IS COMPLETELY NAILED IN PLACE.
11. MAXIMUM STUD HEIGHT AND SPACING PER TABLE 2308.9.1 OF THE CODE.
- MAXIMUM CEILING JOIST SPANS SHALL BE PER OBC SPAN TABLES. PROVIDE BLOCKING AT 8'-0" O.C.
12. BUILDING DEPARTMENT INSPECTION OF THE ROOF AND FLOOR SYSTEMS IS REQUIRED PRIOR TO PLACING ANY MATERIAL ON OR SUSPENDING ANY LOADS FROM THE ROOF OR FLOOR SYSTEMS.
13. FRAMING HARDWARE SHALL BE SIMPSON "STRONG TIE" OR EQUAL. U.N.O. SUBSTITUTIONS SHALL BEAR I.C.B.O. APPROVAL. ALL FLUSH WOOD TO WOOD CONNECTORS SHALL BE MADE WITH "SIMPSON" METAL HANGERS AS FOLLOWS, UNLESS NOTED OTHERWISE:
- 2 X 4, 6 AND 8 MEMBERS = "U" SERIES
- 2 X 10, 12, 14, AND 16 MEMBERS = "HU" SERIES
- 4 X 4 AND LARGER = "HUTF" SERIES
- POST TO BEAM MEMBERS = "PC" SERIES
14. FASTENING - UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE QUANTITY AND SIZE OF FASTENERS CONNECTING WOOD FRAME MEMBERS TOGETHER AND SHEATHING MATERIALS TO WOOD FRAME MEMBERS SHALL NOT BE LESS THAN THAT SPECIFIED IN TABLE 2304.9.1 OF THE CODE AND PER MANUFACTURERS SPECIFICATIONS.
- A. ALL NAILS EXPOSED TO THE WEATHER SHALL BE GALVANIZED.
- B. TOE NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES TO THE PIECE SURFACE AND BE STARTED AT 1/3 THE LENGTH OF THE NAIL FROM THE EDGE OF THE PIECE.
15. WOOD SCREWS SHALL BE IN CONFORMANCE WITH A.N.S.I. B18.6.1.
16. BOLTS AND LAG SCREWS SHALL CONFORM TO A.N.S.I. B18.2.1. ALL BOLTS THROUGH WOOD SHALL HAVE STANDARD CUT WASHERS EXCEPT WHERE METAL SIDE PLATES ARE SPECIFIED. BOLT HOLES SHALL BE BORED 1/32" TO 1/16" LARGER THAN THE BOLT DIAMETER, UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE RETIGHTENED PRIOR TO APPLICATION OF PLASTER, PLYWOOD, ETC.

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A-615 GRADE 60 UNLESS NOTED OTHERWISE.
2. ALL REINFORCING BARS MARKED "CONTINUOUS" MAY BE SPICED WITH A LAP OF 24 BAR DIAMETERS IN CONCRETE AND 50 BAR DIAMETERS IN MASONRY, BUT NO LESS THAN 24 INCHES, EXCEPT AS NOTED.
3. ALL MASONRY REINFORCING SHALL BE PLACED AND SUPPORTED IN CONFORMANCE WITH THE PROVISIONS OF THE LATEST EDITION OF ACI 530.1 / ASCE 6 / TMS 602.
4. TIE WIRE SHALL CONFORM TO ASTM A-82.
5. WELDED WIRE FABRIC SHALL BE SPICED WITH A MINIMUM LAP OF TWO MODULES.
6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.
7. REINFORCING STEEL: ASTM A-615 GRADE 60.
8. ALL REINFORCING STEEL SHALL HAVE THE FOLLOWING MINIMUM CONCRETE COVERAGE, UNLESS NOTED OTHERWISE:
- CONCRETE PLACED AGAINST EARTH = 3"
- CONCRETE WITH FORMED SURFACES IN CONTACT WITH EARTH = 2"
- CONCRETE EXPOSED TO WEATHER = 2"
- SLABS, WALLS, AND JOISTS NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH (#11 BARS AND SMALLER) = 1 1/2"
- BEAMS, GIRDERS AND COLUMNS NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH = 1 1/2"
9. DETAILING OF ALL BENT BARS SHALL COMPLY WITH THE LATEST EDITION OF THE ACI 318 CODE.
10. WELDING OF REINFORCING BARS IS NOT PERMITTED, UNLESS NOTED OTHERWISE.

ABBREVIATIONS

TYPE	DESCRIPTION	TYPE	DESCRIPTION
A.B. ALT. ARCH. AVG.	ANCHOR BOLT ALTERNATE ARCHITECTURAL AVERAGE	L L.L.H. L.L.V. L.P.	LENGTH LONG LEG HORIZONTAL LONG LEG VERTICAL LOW POINT
B.F.F. BLDG. BM. B.O. BOT. BRG.	BELOW FINISH FLOOR BUILDING BEAM BOTTOM OF BOTTOM OF BEARING	MAX. MECH. MEZZ. MFR. MIN. MISC. MWFRS	MAXIMUM MECHANICAL MEZZANINE MANUFACTURER MINIMUM MISCELLANEOUS MAIN WIND FORCE RESISTING SYSTEM MASONRY OPENING
C.J. CLR. C.M.U. CONC. CONST. JT. CONT.	CONTROL JOINT CLEAR CONCRETE MASONRY UNIT CONCRETE CONSTRUCTION JOINT CONTINUOUS	M.O. N.S. O.C. O.D. O.H. OJO	NEAR SIDE ON CENTER OUTSIDE DIAMETER OVER HEAD OUT TO OUT
D DET. DIA.	DEPTH DETAIL DIAMETER	P.S.F. P.S.I.	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH
ELEV. EQ. E.W. EXIST.	ELEVATION EQUAL EACH WAY EXISTING	R. REINF.	RADIUS REINFORCEMENT
FIN. FLR. FND. F.S. FTG.	FINISH FLOOR FOUNDATION FAR SIDE FOOTING	SIM. T4B T.O. T.O.S. TYP.	SIMILAR TOP AND BOTTOM TOP OF TOP OF STEEL TYPICAL
GA.	GAUGE	U.N.O.	UNLESS NOTED OTHERWISE
HORIZ. H.P.	HORIZONTAL HIGH POINT	VERT. V.I.F.	VERTICAL VERIFY IN FIELD
INSUL.	INSULATION	W.W.F. W WJ	WELDED WIRE FABRIC WIDTH WITH



STORAGE GARAGE 0-1743

PLAN NUMBER

5050 CARRAGE

5790 HUDSON DR.

HUDSON OH 44236

DRAWN BY

STEVE DONANT

Room sizing and total square feet may vary with elevation changes. Rough openings and hallways may vary.

Elevations are Artist's conceptions.

REVISIONS

NAME	DATE
STEVE D.	7/5/23

SCALE

12" = 1'-0"

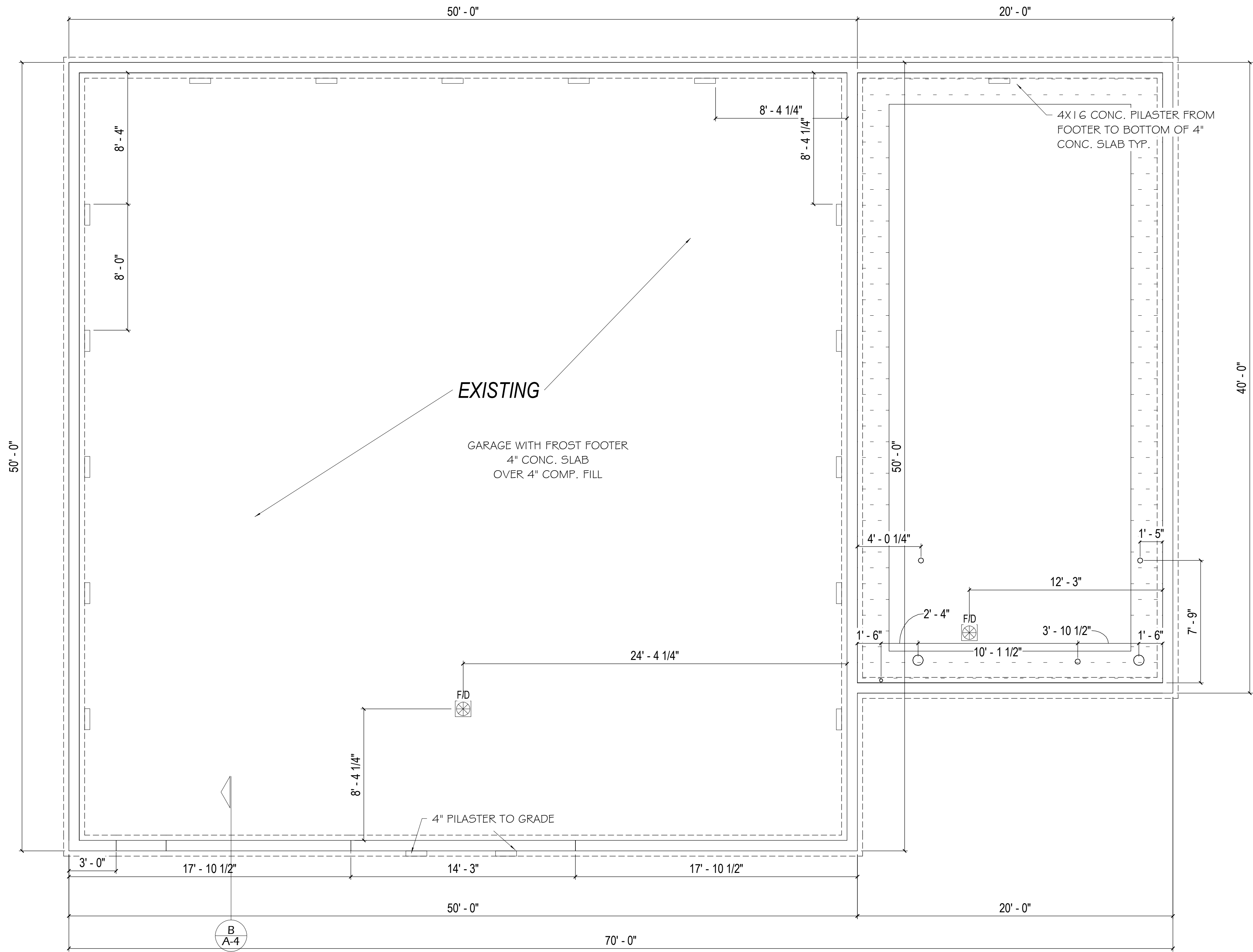
SHEET NAME

General Notes

SHEET NUMBER

S-1 OF 10

DRAWING STATUS: DRAFT



NORTH
00 Foundation
SCALE: 1/4" = 1'-0"



STORAGE GARAGE
50X50 CARPAC
5790 HUDSON DR.
HUDSON OH 44236

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REVISIONS	
NAME	DATE
STEVE D.	7/5/23
SCALE 1/4" = 1'-0"	

SHEET NAME
Foundation Plan
SHEET NUMBER
S-2 OF 10



PANELC - GARAGE LIGHTS, RECEPTACLES
100 AMP DISCONNECT 120/240V / 1Ø PANEL

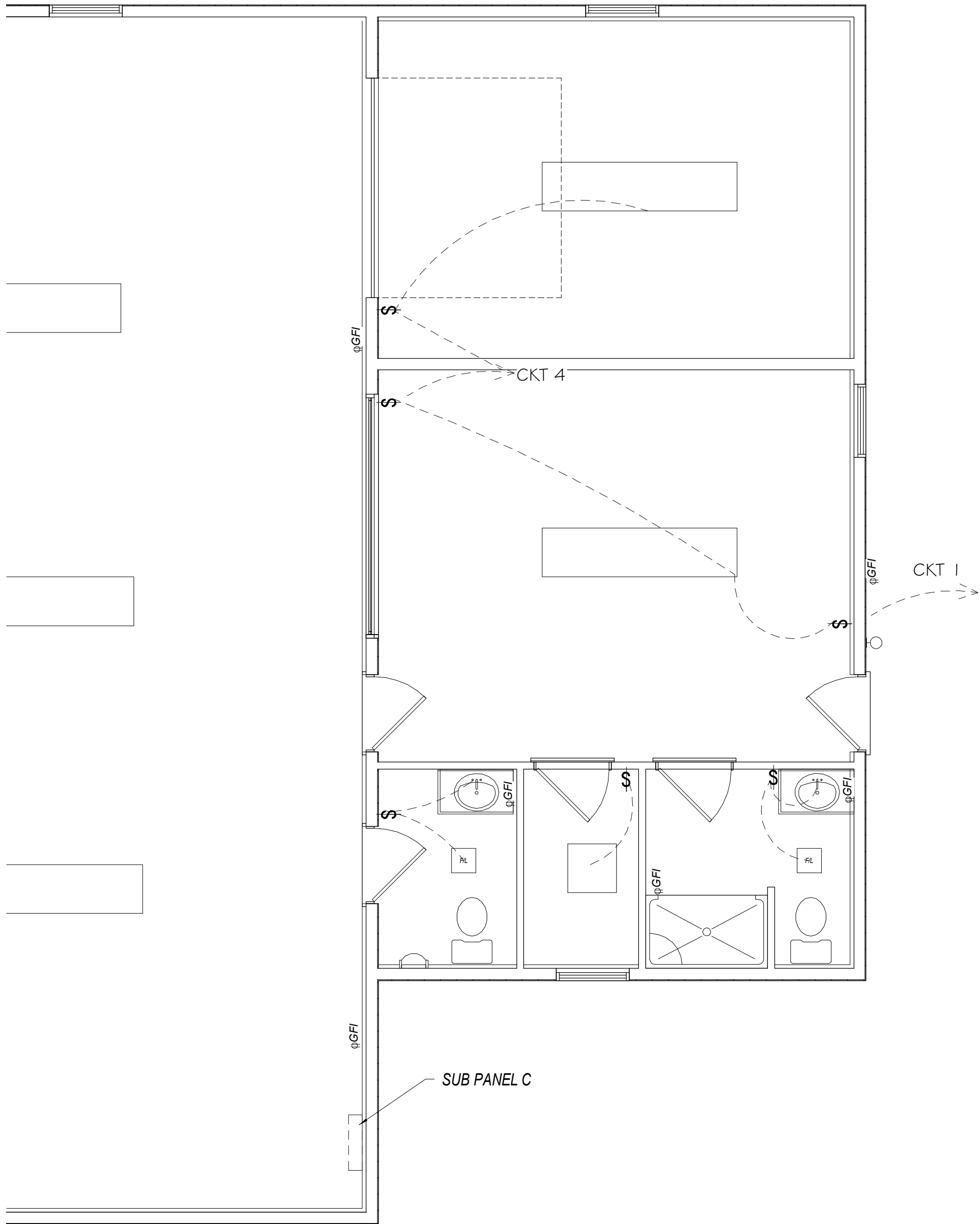
DESCRIPTION	GA.	WATTS	CIR. #	AMP		AMP	CIR. #	WATTS	GA.	DESCRIPTION
LIGHTS - INT.	12	1152	1	20		20	2	1008	12	RECEPTACLES
LIGHTS - EXT.	12	240	3	20		20	4	420	12	OPENER
	12		5	20		20	6		12	

WATTS: 1392

WATTS: 1428

TOTAL WATTS C: 1392 + 1428 = 2820

TOTAL AMPS: 11.75



ELECTRICAL NOTES

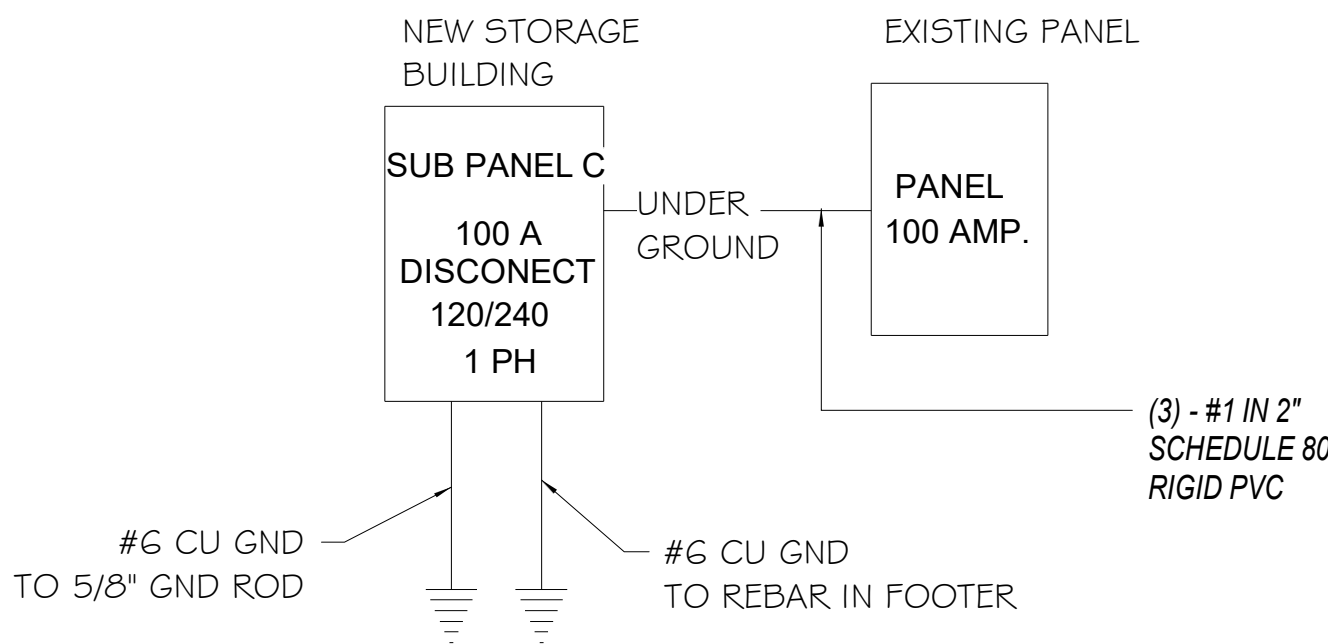
- ALL WIRING SHALL BE DONE IN A WORKMANLIKE MANNER AND IN ACCORDANCE WITH NEC AND OBC.
- ALL CONDUCTORS TO BE TYPE THHN COPPER (UNO) AND SIZED ACCORDING TO NEC. MINIMUM WIRE SIZE SHALL BE #12.
- SINCE THE BUILDING ONLY REQUIRES 1 MEANS OF EGRESS EXIT SIGNS AND EMERGENCY LIGHTING IS NOT REQUIRED.
- ALL OUTSIDE FIXTURES SHALL BE WEATHERPROOF.
- ALL SURFACE MOUNTED ELECTRIC TO BE INSTALLED IN EMT CONDUIT.
- METAL SIDING TO BE GROUNDED @100' INTERVALS

ELECTRICAL LEGEND

- 8' 4" BULB FLUORESCENT SURFACE MOUNTED (192 WATTS TOTAL)
- WALL MOUNTED INCANDESCENT LIGHT (120 WATT)
- DUPLEX RECEPTACLE (120V)(GFI)
- ONE WAY SWITCH
- ONE WAY SWITCH

ELECTRICAL NOTES

- ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AND ALL OTHER APPLICABLE NATIONAL, STATE AND LOCAL REQUIREMENTS.
 - ELECTRICAL AND HVAC WORK SHALL BE COMPLETED BY AN INDIVIDUAL OR BUSINESS THAT IS LICENSED BY THE OHIO CONSTRUCTION INDUSTRY LICENSING BOARD AS REQUIRED BY ORC-4740 AND OAC-4141:16.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN WORKING ORDER BEARING THE "UL" OR EQUIVALENT LABEL WHENEVER SUCH STANDARDS HAVE BEEN ESTABLISHED.
- CONDUIT, MC CABLE OR OTHER APPROVED MATERIAL TO BE USED WHERE WIRING IS EXPOSED. TYPE NM WIRING MAY BE USED WHERE WIRING IS NOT EXPOSED AND IS PROTECTED WITH A THERMAL BARRIER HAVING A MINIMUM 15 MINUTE FINISH RATING. ALL UNDERGROUND CONDUCTORS SHALL BE IDENTIFIED FOR SUCH USE. ALL MATERIALS IN OPEN SPACE ABOVE CEILINGS TO BE PLENUM RATED WHERE SPACE IS USED AS A PLENUM.
- ALL WIRING OR CONDUIT AND PANEL CIRCUIT PROTECTION SHALL BE SIZED FOR THE CONNECTING LOADS PER THE NATIONAL ELECTRICAL CODE, TABLE 310-16.
- 400AMP SERVICE, 120/240V, PHASE(1)-40 CIRCUIT
- LIGHTING IS REQUIRED IN ALL MEANS OF EGRESS, INCLUDING EXIT DISCHARGE, DURING ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED. ILLUMINATION LEVEL AND POWER SOURCE REQUIREMENTS SHALL COMPLY WITH OBC 2007 SECTION 1006.
- THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES ELECTRICAL SUPPLY. IN THE EVENT OF POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE EGRESS AREAS PER SECTION 1006.3 OBC 2017. THE EMERGENCY SYSTEM SHALL PROVIDE POWER FOR NOT LESS THAN 90 MINUTES AND CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR ON-SITE GENERATOR IN ACCORDANCE WITH SECTION 2702 (OBC 2007).
- EXIT SIGNS ARE REQUIRED FOR TWO OR MORE EXITS AND SHALL COMPLY WITH THE LOCATION, SIZE, COLOR ILLUMINATION AND POWER SOURCE REQUIREMENTS OF OBC 2017, SECTION 1011.
- THE PANEL CIRCUIT FEEDING THE UNIT EQUIPMENT (BATTERY PACK) EXIT SIGNS/EMERGENCY LIGHTING SHALL BE THE SAME BRANCH CURCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA WHERE EACH SIGN IS LOCATED AND SHALL BE CONNECTED AHEAD OF ANY LOCAL SWITCHES, COMPLYING WITH OBC SECTIONS 1011 AND 2702.0, AND NEC 700-12 (E).
- ALL CONDUCTORS ARE TO BE COPPER.
- ALL REINFORCING REBARS, EXCLUDING EXISTING BUILDINGS, NOT LESS THAN 1/2" DIA. AND 20 FEET IN LENGTH LOCATED NEAR THE BOTTOM OF THE CONCRETE FOOTING OR FOUNDATION THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE GROUNDED OR BONDED INTO THE BUILDING GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH ARTICLE 250.52.(A).(3) NEC 2008. THE SIZE OF GROUNDING ELECTRODE CONDUCTOR SHALL COMPLY WITH ARTICLE 250.66.(B) NEC 2008. METHODS OF GROUNDING AND BONDING CONDUCTOR CONNECTION AND MATERIALS USED SHALL BE LISTED FOR GROUNDING OR BONDING USE IN ACCORDANCE WITH ARTICLE 250.70 NEC 2005.
- WHERE ANY MATERIALS ARE INSTALLED THROUGH A FIRE BARRIER OR FIRE SEPARATION WALL OR FLOOR / CEILING ASSEMBLY, FIRE CAULK PENETRATION TO MAINTAIN FIRE RATING.
- THIS DRAWING IS GENERAL IN NATURE AND THE INTENT IS TO PROVIDE A COMPLETE, SAFE AND SATISFACTORY ELECTRICAL SYSTEM. ITEMS NOT SHOWN OR MENTIONED, BUT NECESSARY FOR SUCH AN INSTALLATION ARE TO BE INCLUDED, PER OBC SECTION 2702.0 AND APPLICABLE SECTIONS OF THE NEC.
- THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE IS THE EDITION USED.



RISER DIAGRAM

NORTH
Electrical - First Floor
SCALE: 1/4" = 1'-0"



PLAN NUMBER
STORAGE GARAGE 0-1743
50X50 CARPACH
5790 HUDSON DR.
HUDSON OH 44236

DRAWN BY

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NAME	DATE
STEVE D.	7/5/23

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SHEET NAME

Electrical Notes

SHEET NUMBER

E-1 OF 10

DRAWING STATUS: DRAFT

Photos



Photos

