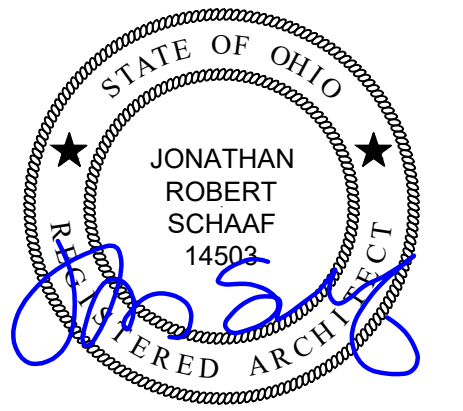


Accessory Storage Building

Mount Crest Court

700 Mount Crest Court
Dayton, Ohio 45403



Jonathan Robert SchAAF #14503
Expiration Date 12/31/2027

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Accessory Storage Building:
Mount Crest Court
700 Mount Crest Court
Dayton, Ohio 45403

Project Number
2024-013

Date
February 27, 2026

Date	Issue
02.05.24	SD Review 01
02.08.24	SD Review 02
02.23.24	SD Review 03
03.21.24	Review
04.01.24	Review
02.27.26	Bid/Construction Set

Sheet Title
Project Title Sheet

Sheet Number
G1.1

OWNER



GREATER DAYTON PREMIER MANAGEMENT
400 WAYNE AVENUE
DAYTON, OHIO 45410

DESIGN TEAM

ARCHITECT:



CIVIL ENGINEER



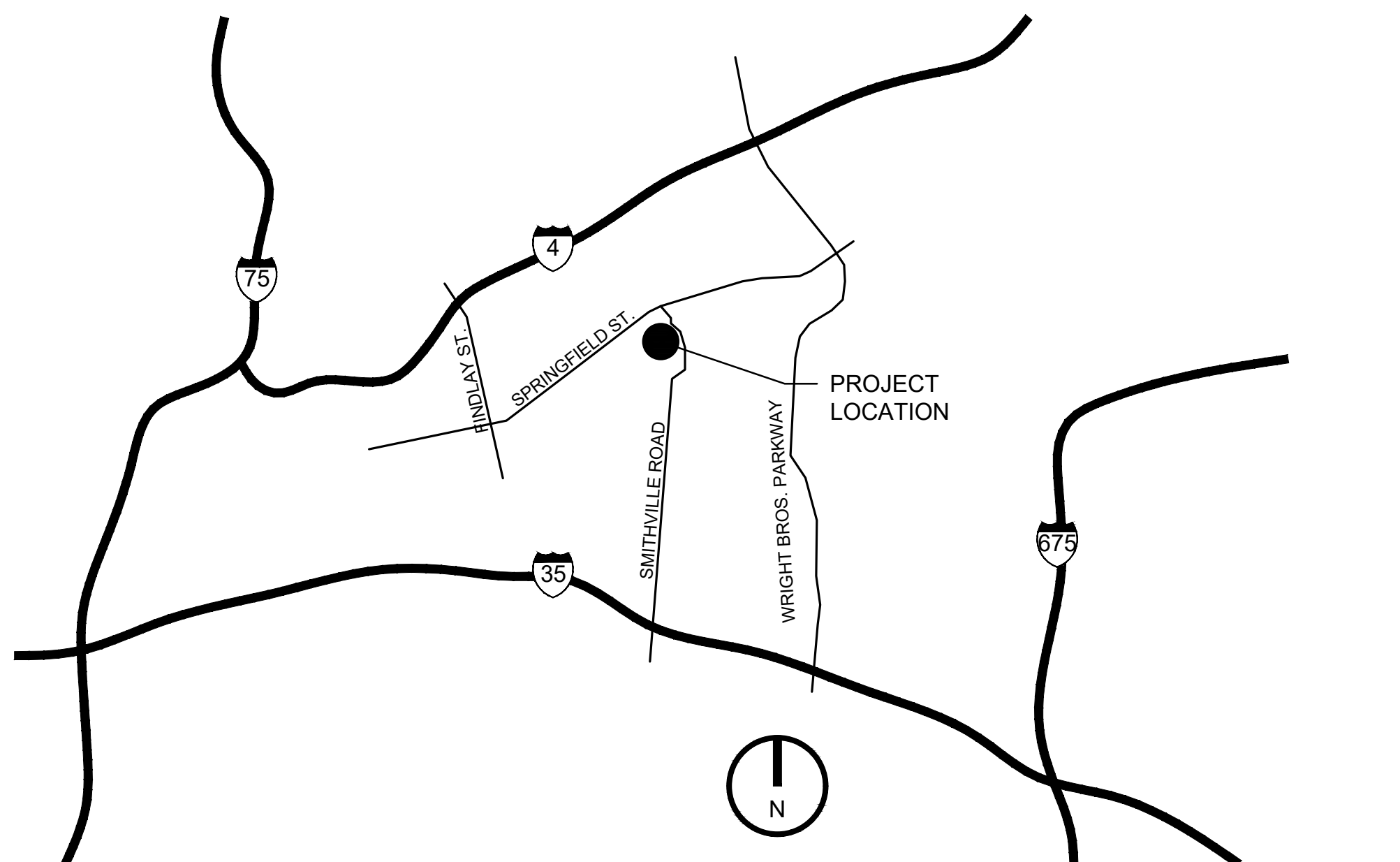
28 North Cherry Street | Germantown, Ohio 45327 | Phone: 937-388-0069 | BURKHARDTINC.COM
CIVIL ENGINEERING | LAND SURVEYING | NATIONAL RETAIL SITE DEVELOPMENT

STRUCTURAL / PME ENGINEER



L2 ENGINEERING
7949 Washington Woods Drive
Dayton, OH 45459

VICINITY MAP



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M0.1	HVAC LEGEND AND GENERAL NOTES
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CODE REVIEW

PROJECT DESCRIPTION:
NEW ACCESSORY MAINTENANCE STORAGE BUILDING

ZONING PERMIT - CITY OF DAYTON
BUILDING PERMIT - CITY OF DAYTON

AUTHORITY HAVING JURISDICTION:
ZONING PERMIT - CITY OF DAYTON
BUILDING PERMIT - CITY OF DAYTON

ZONING CODE:
CITY OF DAYTON ZONING CODE

BUILDING CODE:
2024 OHIO BUILDING CODE [IBC]
ICC A117.1 - 2017 ACCESSIBILITY CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE [IECC]

OBC CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION
311.2: USE GROUP S-1 [STORAGE / WAREHOUSE]

OBC CHAPTER 4: SPECIAL DETAILED REQUIREMENTS BASED ON USE / OCCUPANCY
NO SPECIAL REQUIREMENTS APPLY
-NOT A REPAIR GARAGE, PRIVATE OR PUBLIC PARKING GARAGE.
-NO HIGH PILED STORAGE OR RACK STORAGE
-NO HAZARDOUS MATERIALS STORAGE

OBC CHAPTER 5: GENERAL BUILDING HEIGHT AND AREA
TABLE 504.3: ALLOWABLE HEIGHT:
USE 'S'-1, NONSPRINKLERED, TYPE V B = 4'
PROPOSED HEIGHT = 18' = OK
TABLE 505.4: ALLOWABLE STORIES:
USE 'S'-1, NONSPRINKLERED, TYPE V B = 1 STORY
PROPOSED STORIES = 1 STORY = OK
TABLE 506.2: ALLOWABLE AREA:
USE 'S'-1, NONSPRINKLERED, TYPE V B = 9,000 SF / STORY
OVERALL BUILDING AREA: 1,200 SF [OK W/ ALLOWABLE AREA]

509: INCIDENTAL USE AREAS - NONE APPLY

OBC CHAPTER 6: TYPES OF CONSTRUCTION
TABLE 601:
PRIMARY STRUCTURAL FRAME = 0 HOUR
EXTERIOR BEARING WALLS = 0 HOUR
INTERIOR BEARING WALLS = 0 HOUR
EXTERIOR NON-BEARING WALLS = SEE TABLE 705.5
INTERIOR NON-BEARING WALLS = 0 HOUR
FLOOR CONSTRUCTION = 0 HOUR
ROOF CONSTRUCTION = 0 HOUR

602.5: CONSTRUCTION TYPE: V B [COMBUSTIBLE]

OBC CHAPTER 7: FIRE-RESISTANCE RATED CONSTRUCTION
705.3: BUILDINGS ON THE SAME LOT - CLASSIFY AS SEPARATE BUILDINGS
TABLE 705.5: FIRE RESISTANCE RATING OF EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE: [S-1 USE GROUP - V B CONSTRUCTION]
X < 5 = 2 HOUR REQUIRED
5 < X < 10 = 1 HOUR REQUIRED
10 < X < 30 = 0 HOUR REQUIRED
X > 30 = 0 HOUR REQUIRED

TABLE 705.8: MAXIMUM AREA OF EXTERIOR WALL OPENINGS
0 < 3 = NOT PERMITTED [UNPROTECTED / NON SPRINKLERED]
3 < 5 = NOT PERMITTED [UNPROTECTED / NON SPRINKLERED]
5 < 10 = 10% [UNPROTECTED / NON SPRINKLERED]
10 < 15 = 15% [UNPROTECTED / NON SPRINKLERED]
15 < 20 = 25% [UNPROTECTED / NON SPRINKLERED]
20 < 25 = 45% [UNPROTECTED / NON SPRINKLERED]
25 < 30 = 70% [UNPROTECTED / NON SPRINKLERED]
30 + = NO LIMIT [UNPROTECTED / NON SPRINKLERED]

720.3: EXPOSED INSULATION - MAX. FLAME SPREAD INDEX OF 25 AND A SMOKE DEVELOPED INDEX OF 450.

OBC CHAPTER 8: INTERIOR FINISHES

803.1.1: INTERIOR WALL AND CEILING FINISH MATERIALS
CLASS A = FLAME SPREAD INDEX 0-25, SMOKE DEVELOPED INDEX 0-450
CLASS B = FLAME SPREAD INDEX 26-75, SMOKE DEVELOPED INDEX 0-450
CLASS C = FLAME SPREAD INDEX 76-200, SMOKE DEVELOPED INDEX 0-450

TABLE 803.11: INTERIOR WALL AND CEILING FINISH REQUIREMENTS
USE
EXIT ENCLOSURES AND PASSAGEWAYS: S-1 CLASS B
CORRIDORS: CLASS B
ROOMS AND ENCLOSED SPACES: CLASS C

OBC CHAPTER 9: FIRE PROTECTION SYSTEMS
903.2.9: USE GROUP S-1: AUTOMATIC FIRE SPRINKLER SYSTEM NOT REQUIRED - FIRE AREA LESS THAN 12,000 SF; [1] STORY IN HEIGHT
905.3: STANDPIPE SYSTEM - NOT REQUIRED
906: PORTABLE FIRE EXTINGUISHERS IN ACCORDANCE WITH FIRE CODE, NFPA 10, AND LOCAL FIRE DEPARTMENT
907.2.10: USE GROUP S: FIRE ALARM NOT REQUIRED - [1] STORY IN HEIGHT

OBC CHAPTER 10: MEANS OF EGRESS
TABLE 1004.5: REFER TO CODE REVIEW FLOOR PLANS FOR OCCUPANT LOAD BY SPACE
ACCESSORY STORAGE: 1/300 SF GROSS 1,200 SF 4 OCC.
OCCUPANT LOAD: 4 OCC.

1005.3: EGRESS WIDTH
OCCUPANCY 4 X 20 = 0.8'
ACTUAL = 1 DOOR AT 34" NET CLEAR WIDTH = 34"
TOTAL EGRESS WIDTH = 34" - OK

TABLE 1006.2.1: SPACES WITH 1 EXIT OR 1 EXIT ACCESS DOORWAY
'S' USE - 29 OCCUPANTS - 75' MAX. COMMON PATH OF TRAVEL
SEE PLANS FOR TRAVEL DISTANCE AND COMMON PATH OF TRAVEL

TABLE 1006.3.4: STORIES WITH ONE EXIT - FIRST STORY, 'S' USE - MAX OCC LOAD = 39, MAX TRAVEL DISTANCE = 75' [OK - COMPLIES]
1009.1: ACCESSIBLE MEANS OF EGRESS: ACCESSIBLE MEANS OF EGRESS PROVIDED.

OBC CHAPTER 11: ACCESSIBILITY
SAFE HARBOR - ANSI ICC A117.1-2017
1104.1: ACCESSIBLE ROUTE PROVIDED TO FRONT ENTRANCE.
1105.1: ACCESSIBLE ENTRANCE PROVIDED TO FRONT ENTRANCE
1106.1: ACCESSIBLE PARKING PROVIDED [EXISTING]

OBC CHAPTER 13: ENERGY EFFICIENCY
1301.1.1: CRITERIA - FOLLOW APPLICABLE PROVISIONS OF 2021-INTERNATIONAL ENERGY CONSERVATION CODE OR ASHRAE 90.1.
SEE ATTACHED COMCHECK REPORT

OBC CHAPTER 16: STRUCTURAL DESIGN
TABLE 1604.5: RISK CATEGORY = I
TABLE 1607.1: LIVE LOADS - LIGHT WAREHOUSES = 125 PSF

OBC CHAPTER 18: SOILS
TABLE 1806.2: SOIL BEARING CAPACITY: 1,500 PSF ASSUMED

OBC CHAPTER 26: PLUMBING SYSTEMS
NO PLUMBING FIXTURES PROVIDED IN THIS ACCESSORY BUILDING. THERE ARE TOILET ROOMS AVAILABLE IN THE OFFICE BUILDING, LOCATED WITHIN 500' OF THIS BUILDING.

RDA CONTRACT ADMINISTRATION

- RDA IS PROVIDING CONTRACT ADMINISTRATION SERVICES FOR THIS PROJECT. CONTRACTOR AND CLIENT / OWNER ARE RESPONSIBLE TO COORDINATE THE PROPOSED WORK, SCHEDULES, INSTALLATIONS, PERMITS, INSPECTIONS, ETC.
- CONTACT ARCHITECT FOR CLARIFICATION SHOULD THERE BE QUESTIONS REGARDING THE INTERPRETATION OR INTENT OF THE DOCUMENTS, FIELD DISCOVERY, ETC. THAT WOULD IMPACT OR AFFECT THE WORK AS PROPOSED. RDA IS NOT BE LIABLE FOR DEVIATIONS, FIELD CHANGES, AND CLIENT / OWNER CHANGES DURING CONSTRUCTION.
- FIELD CONFIRM ALL EXISTING CONDITIONS, PROPOSED INSTALLATIONS AND HOW THEY INTERFACE TO ENSURE THE SYSTEMS CAN BE INSTALLED PER THE INTENT OF THE DOCUMENTS AND TO MEET APPLICABLE BUILDING AND ZONING CODES, LOCAL REQUIREMENTS, CLIENT / OWNER REQUIREMENTS, ETC.
- MEET ALL APPLICABLE BUILDING AND ZONING CODES REQUIREMENTS WHETHER SPECIFICALLY NOTED HEREIN OR NOT. BUILDING CODES REPRESENT THE MINIMUM ACCEPTABLE STANDARD.
- INSTALL ALL PRODUCTS, MATERIALS, INSTALLATIONS, AND THE LIKE IN ACCORDANCE WITH APPLICABLE INDUSTRY STANDARDS, APPLICABLE MANUFACTURER'S DETAILS AND INSTRUCTIONS, IN ACCORDANCE WITH BEST PRACTICES, AND BUILDING CODE PROVISIONS.

THE PLANS AND SPECIFICATIONS ARE INTENDED TO DEPICT THE GENERAL SCOPE, LAYOUT AND QUALITY OF WORKMANSHIP REQUIRED. THE DOCUMENTS ARE NOT AN "INSTRUCTION MANUAL" TO EXECUTE THE WORK NOR ARE THEY INTENDED TO SHOW OR DESCRIBE IN DETAIL EVERY ITEM NECESSARY FOR THE PROPER INSTALLATION OF THE WORK. THE MEANS AND METHODS REQUIRED TO EXECUTE THE WORK DESCRIBED IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THE ANCLARY WORK REQUIRED, WHETHER EXPLICITLY STATED OR NOT, FOR THE PROPER COMPLETION OF THE WORK AS INTENDED. THE CONTRACTOR IS REQUIRED TO MEET OR EXCEED BUILDING CODE REQUIREMENTS, APPLICABLE INDUSTRY STANDARDS, ASTM STANDARDS, AND/OR MANUFACTURER INSTALLATION REQUIREMENTS AS THEY RELATE TO THE WORK.

THE PLANS AND SPECIFICATIONS REPRESENT A SINGLE COMPLETE DESIGN PACKAGE INDICATING THE INTENDED SCOPE OF THE PROJECT IN ITS ENTIRETY. AS SUCH, THE PROJECT IS STRUCTURED TO BE AWARDED TO A SINGLE PRIME CONTRACTOR. THE DOCUMENTS DO NOT DELINEATE BID PACKAGES OR ASSIGN RESPONSIBILITIES TO ANY SUBSEQUENT SUBCONTRACTORS, DICTATE CONSTRUCTION SEQUENCING, NOR PROVIDE COORDINATION BETWEEN ANY TRADES. SUCH ACTIVITIES ARE THE RESPONSIBILITY OF THE HOLDER OF THE CONSTRUCTION CONTRACT. IN THE EVENT OF A DISCREPANCY WITHIN THE DRAWINGS OR BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT REPRESENTED IN THE DOCUMENTS SHALL PREVAIL.

ABBREVIATIONS

±	DEGREES	FD	FLOOR DRAIN	R / RAD	RADIUS
+/-	PLUS OR MINUS	FDN	FOUNDATION	RA	RETURN AIR
≠	NOT EQUAL	FE	FIRE EXTINGUISHER	RB	RUBBER BASE
∅	DIAMETER	FEC	FIRE EXTINGUISHER CABINET	RD	ROOF DRAIN
∠	ANGLE	FF	FINISH FLOOR	REF	REFRIGERATOR
CL	CENTERLINE	FIN	FINISH / FINISHED	REIN	REINFORCE
PL	PROPERTY LINE	FRT	FIRE RETARDANT TREATED	REQ'D	REQUIRED
		FSE	FOOD SERVICE EQUIPMENT	REQ'MT	REQUIREMENT(S)
ABV	ABOVE	FTG	FOOTING	REV	REVISION
ADA	ACCESSIBLE / HANDICAP ACCESSIBLY / ACCESSIBILITY - ANSI ICC-117.1-2009	FV	FIELD VERIFY	RO	ROUGH OPENING
		GA	GAUGE	R/W	RIGHT OF WAY
AFF	ABOVE FINISH FLOOR	GALV	GALVANIZED	SALV	SALVAGED FEET
ALT	ALTERNATE	GC	GENERAL CONTRACTOR	SF	SQUARE FEET
ALUM	ALUMINUM	GYP	GYP SUM	SIM	SIMILAR
APPROX	APPROXIMATE	GYP BD	GYP SUM BOARD	SM	SHEET METAL
ATC	ACOUSTIC TILE CEILING			SPEC	SPECIFICATION
		HB	HOSE BIBB	SQ	SQUARE
BET/BETWN	BETWEEN	HM	HOLLOW METAL	SS	STAINLESS STEEL
BLKG	BLOCKING	HOR	HORIZONTAL	STD	STANDARD
BRG	BEARING	HT	HEIGHT	STL	STEEL
BSMT	BASEMENT	HVAC	HEATING, VENTILATION, AIR CONDITIONING	T	TEMPERED
BTM	BOTTOM			TBD	TO BE DETERMINED
		INT	INTERIOR	T&B	TOP AND BOTTOM
CIP	CAST IN PLACE			T&G	TONGUE AND GROOVE
CJ	CONTROL JOINT			T.O	TOP OF
CL	CENTERLINE	JB	JUNCTION BOX	TR	TREATED
CLG	CEILING			TYP	TYPICAL
CLR	CLEAR	LL	LIVE LOAD		
CMU	CONCRETE MASONRY UNIT	LLH	LONG LEG HORIZONTAL		
COLUM	COLUMN	LLV	LONG LEG VERTICAL		
CONC	CONCRETE	LTL	LINTEL	UFAS	UNIFORM FEDERAL ACCESSIBILITY STANDARD
CONT	CONTINUOUS			UNO	UNLESS NOTED OTHERWISE
CPT	CARPET	MAX	MAXIMUM	UL	UNDERWRITER'S LABORATORY
CT	CERAMIC TILE	MECH	MECHANICAL		
		MFR	MANUFACTURER	VB	VAPOR BARRIER
DEMO	DEMOLISH / DEMOLITION	MIN	MINIMUM	VERT	VERTICAL
DF	DRINKING FOUNTAIN	MISC	MISCELLANEOUS		
DIA	DIAMETER	MO	MASONRY OPENING	W/	WITH
DIM	DIMENSION	MS	METAL STUD	W/O	WITHOUT
DIV	DIVISION	MTD	MOUNTED	WD	WOOD
DP	DEEP	MTL	METAL	W.P.	WORK POINT
DS	DOWNSPOUT			WRB	WEATHER RESISTIVE BARRIER
DTL	DETAIL	NIC	NOT IN CONTRACT	WWF	WELDED WIRE FABRIC
DW	DISHWASHER	NOM	NOMINAL		
DWG	DRAWING	NTS	NOT TO SCALE		
		OC	ON CENTER		
EA	EACH	OH	OVERHEAD		
EERO	EMERGENCY ESCAPE & RESCUE OPENING	OPG	OPENING		
EIFS	EXTERIOR INSULATION FINISH SYSTEM	OPP	OPPOSITE		
		PEMB	PRE-ENGINEERED METAL BUILDING		
EJ	EXPANSION JOINT	PL	PLATE / PROPERTY LINE		
ELEC	ELECTRIC / ELECTRICAL	PTD	PAINTED		
ELEV	ELEVATION / ELEVATOR				
EQ	EQUAL				
EQUIP	EQUIPMENT	QT	QUARRY TILE		
EX	EXISTING	QTY	QUANTITY		
EXP	EXPANSION				

WALL / SYMBOL LEGEND

	NEW CONCRETE FOUNDATION WALL
	NEW WOOD FRAME WALL
	DOOR TYPE KEY
	ROOM NAME
	ROOM TAG
	SECTION TAG

GENERAL PROJECT REQUIREMENTS

SECTION 01 00 00 - GENERAL REQUIREMENTS

- 1. PERMITS: CONFORM TO THE 2024 OHIO BUILDING CODE... 1.1. CONFORM TO THE 2024 OHIO BUILDING CODE... 1.2. VERIFY ALL PERMITS HAVE BEEN APPROVED... 1.3. AGENCY PRIOR TO START OF CONSTRUCTION... 1.4. NO CONSTRUCTION OR FABRICATION OF ANY ITEM SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED ALL PLANS AND ANY DOCUMENTATION FROM ALL OF THE PERMITTING AND REGULATORY AUTHORITIES... 1.5. PAY FOR ALL REQUIRED PERMITS... 1.6. ARCHITECT IS NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM WORK STARTED PRIOR TO OBTAINING ALL PERMITS... 1.7. MAINTAIN A COPY OF APPROVED PERMIT DRAWINGS ON-SITE FOR INSPECTION PURPOSES... 1.8. NOTIFY THE BUILDING DEPARTMENT WHEN WORK IS READY FOR INSPECTION... 1.9. MAINTAIN RECORDS OF INSPECTIONS ON THE JOB SITE IN ACCORDANCE WITH REQUIREMENTS OF BUILDING DEPARTMENT... 1.10. PAY ALL FEES REQUIRED BY INSPECTIONS... 1.11. COMPLETE WORK TO THE HIGHEST STANDARDS OF CRAFTSMANSHIP BY EACH RESPECTIVE TRADE... 2. TESTING / INSPECTION ALLOWANCES... 3. TRASH / DEBRIS... 4. FINAL CLEANING... 5. CONSTRUCTION SAFETY... 6. FIRE PREVENTION... 7. PRODUCTS... 8. COORDINATION... 9. NOTICES AND HOLES IN FRAMING MEMBERS... 10. CONTRACT DOCUMENTS, DRAWINGS, OR DETAILS IN THIS SET MAY INDICATE TYPICAL CONDITIONS WHICH MAY VARY FROM ACTUAL CONSTRUCTION...

CONCRETE

- 1. AGGREGATE BASE: ODOT 703 #6, 3/8"-3/4" CLEAN, UNIFORMLY GRADED CRUSHED STONE OR GRAVEL... 2. CONCRETE DESIGN REQUIREMENTS / MINIMUM STRENGTH OF CONCRETE: ASTM C04, MINIMUM 28 DAY SPECIFIED STRENGTHS... 2.1. CONCRETE EXPOSED TO WEATHER IN THE FINISHED STRUCTURE: 4,500 PSI WITH 4-6% ENTRAINED AIR... 2.2. CONCRETE FOR FOUNDATIONS NOT EXPOSED TO WEATHER: 3,000 PSI, W/O ENTRAINED AIR... 2.3. CONCRETE SLAB ON GRADE: 4,000 PSI W/O ENTRAINED AIR, FIBERMESH... 2.4. GARAGE CONCRETE SLAB ON GRADE: 4,000 PSI W/ ENTRAINED AIR, FIBERMESH... 2.5. EXTERIOR CONCRETE SLAB ON GRADE: 4,500 PSI W/ 4-6% ENTRAINED AIR... 3. CONCRETE FINISHING / ACCESSORIES: 3.1. INTERIOR CONCRETE SLAB ON GRADE: SMOOTH... 3.2. EXTERIOR CONCRETE: TROWEL AND RE-TRACE... 3.3. JOINT FILLER / EXPANSION JOINT: ASTM D1751, 1/2" THICK... 4. CONCRETE ACCESSORIES: 4.1. FORMS: PER CONTRACTOR AND AS REQ'D BY CONDITIONS... 4.2. JOINT FILLER / EXPANSION JOINT: ASTM D1751, 1/2" THICK... 5. REINFORCING STEEL: ASTM A615, A996 TYPE R OR TYPE A, GRADE 60, DEFORMED BILLET BARS, UNCOATED... 5.1. CHAIRS, BOLSTERS, BAR SUPPORTS, SPACERS: SIZED AND SHAPED FOR SUPPORT OF REINFORCING... 6. LAP REINFORCING BAR SPLICES: #4 BAR = 30", #3 BAR = 38"... 7. SLAB ON GRADE REINFORCEMENT: FIBER MESH REINFORCEMENT OR WELDED WIRE MESH - 6X6 W2 9/2 9, UNLESS NOTED OTHERWISE... 8. VAPOR BARRIER: ASTM E1745, CLASS 1, 6 MIL POLYETHYLENE VAPOR BARRIER... 9. MAINTAIN RECORDS OF INSPECTIONS ON THE JOB SITE IN ACCORDANCE WITH REQUIREMENTS OF BUILDING DEPARTMENT...

WOOD FRAMING

SECTION 06 10 00 - ROUGH CARPENTRY [WOOD]

- 1. INSTALL ALL FRAMING COMPONENTS IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS... 2. LOCATIONS OF TREATED LUMBER: 2.1. WOOD JOISTS OR BOTTOM OF WOOD STRUCTURAL FLOOR WHERE CLOSER THAN 18" OR WOOD GIRDERS WHERE CLOSER THAN 12" TO EXPOSED GROUND... 2.2. WOOD FRAMING MEMBERS RESTING ON CONCRETE OR MASONRY EXTERIOR FOUNDATION WALLS... 2.3. SILLS AND SLEEPERS ON CONCRETE OR MASONRY SLAB... 2.4. ENDS OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS... 2.5. WOOD FURRING STRIPS OR OTHER WOOD FRAMING MEMBERS ATTACHED DIRECTLY TO THE INTERIOR OF EXTERIOR CONCRETE OR MASONRY WALLS... 3. GROUND CONTACT TREATED LUMBER: PROVIDE PRESURE TREATED WOOD SUITABLE FOR GROUND CONTACT... 4. LIGHT GAUGE JOIST HANGERS AND FRAMING ANCHORS... 5. TRUSSES: DESIGN IN ACCORDANCE WITH APPROVED ENGINEERING PRACTICE... 6. WALL BRACING: BRACE ALL EXTERIOR WALL PANELS OF WOOD FRAME CONSTRUCTION... 7. FIRESTOPPING: PROVIDE 2x LUMBER [ALT. 7/16" OSB OR 1/2" GYP BD] TO FORM AN EFFECTIVE FIRE BARRIER... 8. FRAMING REQUIREMENTS: 8.1. PROVIDE WOOD OR METAL BRIDGING PER FLOOR TRUSS MFR DESIGN DWG... 8.2. PROVIDE CONT. PLYWOOD FILLERS AS NOTED ON HEADER SCHEDULE... 8.3. PROVIDE SOLID BLOCKING IN FLOOR CONSTRUCTION UNDER BEARING WALLS... 8.4. NAIL ALL MULTIPLE / GANGED STUDS AT BEAM AND LINTEL BEARING W/ 10d AT 12" OC... 8.5. NAIL ALL MULTIPLE MEMBER BEAMS / LINTELS W/ TWO ROWS OF 10d AT 12" OC... 8.6. PROVIDE DOUBLE STUDS AT ALL LINTEL AND WOOD BEAM BEARINGS UNO... 8.7. DRILL PILOT HOLES WHEN SCREWS OR LAG BOLTS ARE REQ'D... 9. CONSTRUCTION REQUIREMENTS: 9.1. MAKE ALL CUTS TRUE AND SQUARE FOR FULL BEARING AT STRUCTURAL JOINTS... 9.2. NAIL PLYWOOD AS RECOMMENDED BY AMERICAN PLYWOOD ASSOCIATION... 9.3. CONNECT ALL FRAMING AND SHEATHINGS SECURELY TOGETHER W/ NAILS, SPIKES, OR FRAMING ANGLES... 9.4. INSTALL ALL ENGINEERED FRAMING, TJI JOISTS, LVL, MICROLAM, PARALLAM BEAMS, ETC... 9.5. PROVIDE SOLID BEARING UNDER POINT LOADS... 9.6. ALL BEAMS ARE CONSIDERED "DROPPED" BELOW JOISTS... 10. NOTCHES AND HOLES IN FRAMING MEMBERS: 10.1. INSTALL ALL FRAMING COMPONENTS IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS... 10.2. NOTCHES IN WALL STUDS = MAX. 1/4 OF STUD WIDTH... 10.3. HOLES IN WALL STUDS = MAX. 40% OF STUD WIDTH... 10.4. NOTCHES AT THE END OF JOISTS = MAX. 1/4 OF JOIST DEPTH... 10.5. NOTCHES IN THE TOP OR BOTTOM OF JOISTS = MAX. 1/6 OF JOIST DEPTH... 10.6. HOLES IN JOISTS = MAX. 1/3 OF JOIST DEPTH... 11. PROVIDE CONCEALED WOOD BLOCKING AS REQ'D TO SUPPORT WALL MOUNTED ITEMS... 12. FASTENERS / ACCESSORIES: 12.1. ANCHOR BOLTS: MINIMUM 1/2" DIAMETER... 12.2. JOIST HANGERS, POST BASES, UPLIFT STRAPS... 12.3. FASTENERS: GALVANIZED AT ALL EXTERIOR APPLICATIONS... 12.4. FASTENING REQUIREMENTS: PER OBC [OR RCO IF APPLICABLE] REQUIREMENTS... 12.5. NAILING REQUIREMENTS ARE BASED ON COMMON NAIL SIZES...

SUPPLEMENTAL STRUCTURAL SPECIFICATIONS:

GENERAL STRUCTURAL NOTES

- 1. GENERAL STRUCTURAL NOTES ARE INTENDED TO COMPLETE THE DRAWINGS AND SPECIFICATIONS... 2. GOVERNING CODE: 2024 OHIO BUILDING CODE... 2.1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED... 2.2. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING... 2.3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS RELATING TO EXISTING CONSTRUCTION AND EXISTING SERVICE ON THE SITE.

CONCRETE

- 1. COMPLY WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS [ACI 301]"... 2. KEEP COPY OF "FIELD REFERENCE MANUAL" [ACI PUBLICATION SP-15 LATEST EDITION] AT PROJECT FIELD OFFICE... 3. PROVIDE CONCRETE WITH THE FOLLOWING 28 DAY SPECIFIED STRENGTHS: 3000 PSI WITH 4-6% ENTRAINED AIR... 4000 PSI WITH 3/8" AGGREGATE & 7" SLUMP... 4000 PSI WITHOUT ENTRAINED AIR... 3500 PSI WITH 3/8" AGGREGATE... 3000 PSI WITHOUT ENTRAINED AIR... 4. TESTING LABORATORY TO SUBMIT ONE COPY OF ALL CONCRETE TEST REPORTS DIRECTLY TO STRUCTURAL ENGINEER... 5. REINFORCE ALL SLABS WITH FIBERMESH... 6. LAP ALL COMPRESSION SPLICES 30 BAR DIAMETERS... 7. LAP ALL TENSION SPLICES IN ACCORDANCE WITH THE FOLLOWING: A. IF MORE THAN 50% OF THE BARS ARE LAP SPLICED WITHIN A LAP LENGTH... B. IF LESS THAN ONE-HALF OF THE BARS ARE LAP SPLICED WITHIN A LAP LENGTH... C. LAP WIRE MESH 12" FURNISH CLEARANCES BETWEEN REINFORCING STEEL AND CONCRETE SURFACE AS FOLLOWS: 3" - CONCRETE PLACED AGAINST GROUND... 9. BEND ALL HORIZONTAL BOND BEAM AND FOOTING BARS 1'-6" AROUND CORNERS OR PROVIDE CORNER BARS WITH 3'-0" LAP... 11. SUPPORTED SLABS AND WALL FOOTINGS - MINIMUM 1 1/2" DEPTH WITH HEIGHT EQUAL TO ONE-THIRD OF MEMBER DEPTH.

WOOD FRAMING

- 1. SPECIFICATIONS AND STANDARDS: DESIGN AND DETAILING OF CONNECTIONS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION... 2. MATERIALS: A. USE ONLY STRESS GRADE LUMBER WITH THE FOLLOWING MINIMUM PROPERTIES FOR DIMENSIONAL LUMBER FRAMING... B. ALL STRUCTURAL LUMBER SHALL BE KILN DRIED TO 19% MOISTURE CONTENT... C. LIGHT GAUGE JOIST HANGERS AND FRAMING ANCHORS... D. PLYWOOD SHEATHING: ROOFS - 5/8" OSB SHEATHING... E. WHERE PLYWOOD FILLERS ARE CALLED OUT WITH LINTELS... F. PROVIDE SOLID BLOCKING IN FLOOR CONSTRUCTION UNDER BEARING WALLS... G. ALL MULTIPLE STUDS AT BEAM AND LINTEL BEARING SHALL BE NAILED TOGETHER WITH 10d AT 12" O.C... H. MULTIPLE MEMBER BEAMS AND LINTELS SHALL BE NAILED TOGETHER WITH TWO ROWS OF 10d AT 12" O.C... I. PROVIDE DOUBLE STUDS AT ALL LINTEL AND WOOD BEAM BEARINGS UNLESS NOTED OTHERWISE... J. WHEN SCREWS OR LAG BOLTS ARE REQUIRED... K. FOR LUMBER EXPOSED TO WEATHER... L. NAILING REQUIREMENTS ARE BASED ON COMMON NAIL SIZES... M. ALL SILL PLATES IN CONTACT WITH MASONRY... 3. CONSTRUCTION REQUIREMENTS: A. MAKE ALL CUTS TRUE AND SQUARE FOR FULL BEARING AT STRUCTURAL JOINTS... B. PROVIDE PLYWOOD NAILING AS RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION... C. CONNECT ALL FRAMING AND SHEATHING SECURELY TOGETHER WITH NAILS, SPIKES, OR FRAMING ANGLES... 4. NAILING REQUIREMENTS ARE BASED ON COMMON NAIL SIZES... 5. ALL SILL PLATES IN CONTACT WITH MASONRY WITHIN 8" OF EARTH OR ON CONCRETE BEARING ON EARTH SHALL BE PRESERVATIVE TREATED.

WOOD TRUSS NOTES

- 1. TRUSS FABRICATOR TO DESIGN ALL TRUSS CONNECTIONS AND SUBMIT SHOP DRAWINGS FOR ALL TRUSSES... 2. PROVIDE UPWARD CAMBER IN TRUSS EQUAL TO THE LONG TERM DEAD LOAD DEFLECTION OF THE TRUSS... 3. FOR FORCES SHOWN ON DRAWINGS (+) INDICATES TENSION; (-) INDICATES COMPRESSION... 4. ALL TRUSS MEMBERS TO BE #2 SOUTHERN PINE KILN DRIED UNLESS NOTED OTHERWISE... 5. THE PROCEDURE AND EXECUTION OF ERECTING THE TRUSSES IS THE CONTRACTOR'S RESPONSIBILITY... 6. ATTACH PERMANENT LATERAL BRACING TO WALLS OR ROOF FRAMING AT EACH END AND PROVIDE "X" BRACING AT 20' MAX. SPACING.

- 7. DESIGN LOADS: TOP CHORD LIVE LOAD 25 PSF DEAD LOAD 10 PSF BOTTOM CHORD LIVE LOAD 25 PSF DEAD LOAD 10 PSF... 8. PROVIDE LARGER WEB MEMBERS AT CARRIER TRUSSES AS NECESSARY TO PROVIDE SUPPORT FOR MEMBERS FRAMING INTO TRUSS... 9. PROVIDE WEDGE BLOCKS OR BOTTOM CHORD REINFORCING AS REQUIRED WHEN INTERSECTION OF CENTROID OF TOP CHORD AND BOTTOM CHORD OF TRUSS DOES NOT OCCUR OVER SUPPORT... 10. PROVIDE PLYWOOD OR OSB SHEATHING TO BRACE TRUSS TOP CHORD TO ALL LOCATIONS OF PROVIDE CONTINUOUS 1x4 LATERAL BRACING AT 24" O.C. AT TRUSS TOP CHORD AND AT ALL TRUSS TOP CHORD PANEL POINTS... 11. PROVIDE LARGER CHORD OF WEB MEMBERS WHERE REQUIRED FOR FASTENING AND SUPPORT OF JOIST HANGERS... 12. PROVIDE HURRICANE CLIPS AT EACH END OF TRUSSES TO RESIST UPLIFT FORCES SHOWN ON THE TRUSS SHOP DRAWINGS UNLESS NOTED OTHERWISE ON DRAWINGS.

MISCELLANEOUS

- 1. DESIGN SOIL BEARING 1,500 PSF. NOTIFY ARCHITECT AND ENGINEER IF SOIL BEARING CAPACITY IS LESS THAN ASSUMED... 2. VERIFY BEFORE FABRICATION OF CONSTRUCTION, ALL OPENINGS, LINTELS, EQUIPMENT SUPPORTS AND OTHER CONSTRUCTION PROVIDED FOR MECHANICAL WORK... 3. STRUCTURAL SUPPORTS ARE DESIGNED FOR EQUIPMENT LOADS (INCLUDING CONCRETE PADS UNDER EQUIPMENT) SHOWN ON DRAWINGS...

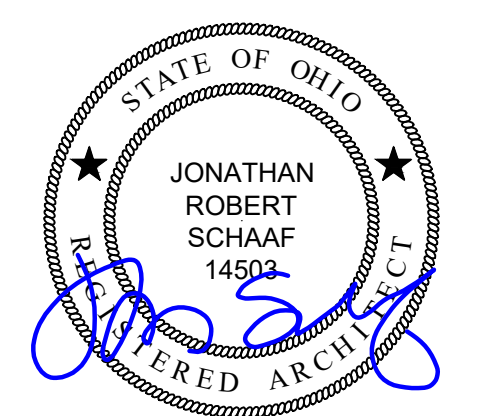
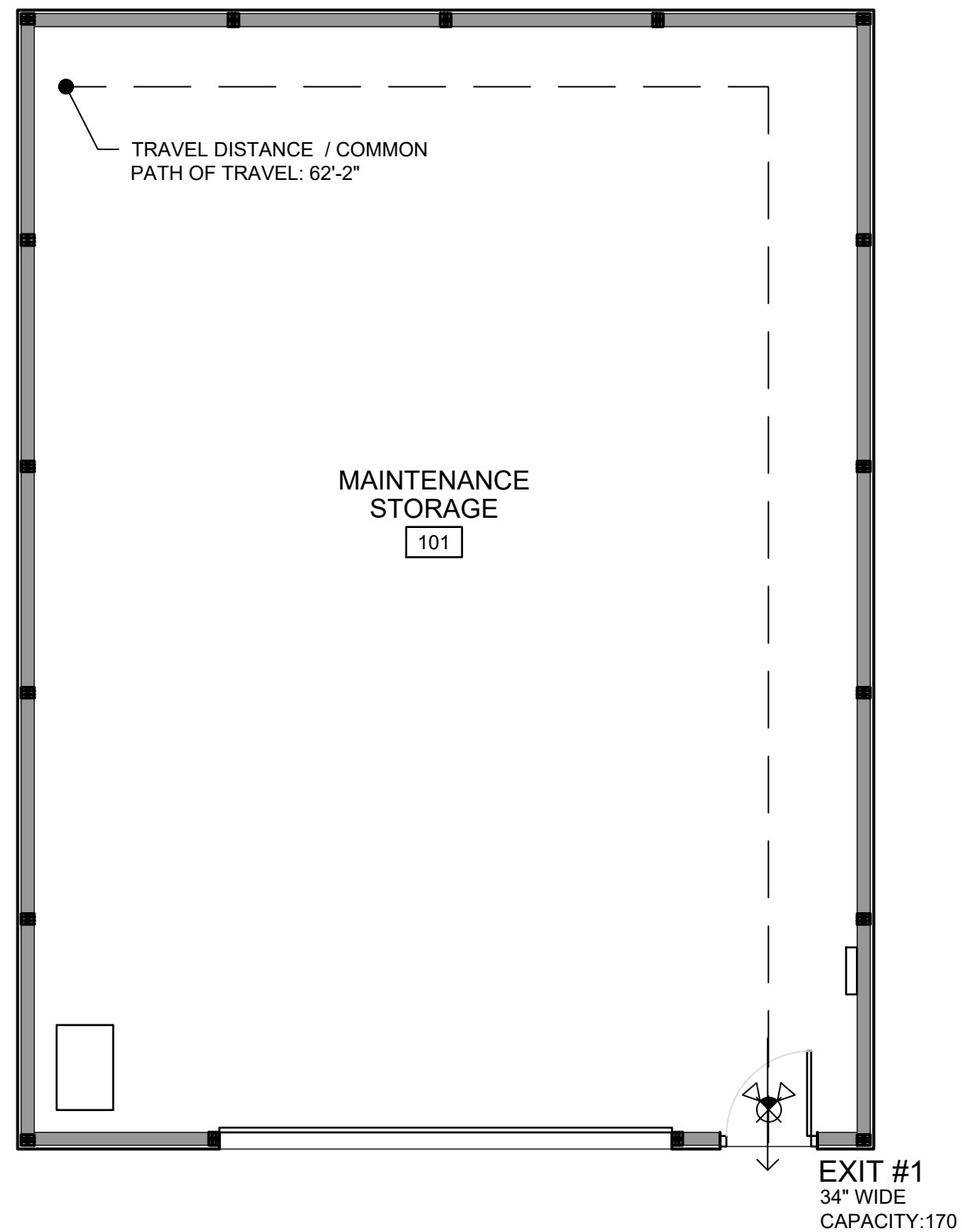
DESIGN LOADS [SOIL CLASSIFICATION D]

SOIL BEARING CAPACITY: 1,500 PSF - ASSUMED (REFER TO GEOTECHNICAL REPORT BY ALT AND WITZIG) FLOOR LIVE LOAD: MEZZANINE / STORAGE LIVE LOAD [LIGHT]: 125 PSF OFFICE LIVE LOAD: 50 PSF LOBBIES AND FIRST-FLOOR CORRIDORS: 100 PSF GARAGE: DESIGN LOAD FOR BUSES, EXCEEDS 10,000 LBS GROSS VEHICLE WEIGHT RATING FOR LIVE LOAD REQUIREMENT ROOF LIVE LOAD: 20 PSF GROUND SNOW LOAD: 20 PSF ICE OR SNOW: 5 PSF SNOW EXPOSURE FACTOR: 0.7 SNOW LOAD IMPORTANCE FACTOR: 1.0 THERMAL FACTOR: 1.0 SEISMIC DESIGN CATEGORY: B WIND LOAD: ULTIMATE DESIGN WIND SPEED: 115 MPH, 3 SEC. GUST EXPOSURE: C WIND IMPORTANCE FACTOR: 1.0 BUILDING CATEGORY: II INTERNAL PRESSURE COEFFICIENT: +/- 0.18 FLOOD DESIGN: SITE IS NOT LOCATED IN FLOOD PRONE AREA, PER CORP. OF ENGINEERS. SPECIAL LOADS: REFER TO PLANS AS APPLICABLE.

DEFLECTION LIMITATION CRITERIA

ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS

INTERIOR WALLS / PARTITIONS	H/180
FLOORS	L/360
ALL OTHER STRUCTURAL COMPONENTS	L/240
EXTERIOR WALLS (PLASTER / STUCCO)	H/360
EXTERIOR WALLS W/ BRITTLE FINISH	H/240
EXTERIOR WALL W/ FLEXIBLE FINISH [H/180 PREVAILS DUE TO INTERIOR GYPSUM BOARD]	H/180
LINTELS SUPPORTING MASONRY VENEER	L/600



Jonathan Robert SchAAF #14503
Expiration Date 12/31/2027

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Accessory Storage Building:
Mount Crest Court

700 Mount Crest Court
Dayton, Ohio 45403

Project Number: 2024-013
Date: February 27, 2026

Date	Issue
02.05.24	SD Review 01
02.08.24	SD Review 02
02.23.24	SD Review 03
03.21.24	Review
04.01.24	Review
02.27.26	Bid/Construction Set

Sheet Title: Code Review Plan
Architectural Specifications

Sheet Number: G1.2

PART 1: SCHEDULE OF SPECIAL INSPECTIONS

NO.	ITEM	REQUIRED	CONTINUOUS INSPECTION	PERIODIC INSPECTION
3	CONCRETE CONSTRUCTION (1705.3 OBC)	X		
	- WELDING REINFORCING BARS			
	- MATERIAL TESTS	X	X	
6	SOILS (1705.6 OBC)	X		X

PART 2: LIST OF SPECIAL INSPECTORS

NO.	ITEM	INSPECTION COMPANY	NAME OF INSPECTOR
1	SPECIAL CASES (1705.1.1 OBC)		
2	STEEL CONSTRUCTION (1705.2 OBC)		
3	CONCRETE CONSTRUCTION (1705.3 OBC)		
4	MASONRY CONSTRUCTION (1705.4 OBC)		
5	WOOD CONSTRUCTION (1705.5 OBC)		
6	SOILS (1705.6 OBC)		
7	DRIVEN DEEP FOUNDATION (1705.7 OBC)		
8	CAST-IN-PLACE DEEP FOUNDATION (1705.8 OBC)		
9	HELICAL PILE FOUNDATION (1705.9 OBC)		
10	FABRICATED ITEMS (1705.10 OBC)		
11	WIND RESISTANCE (1705.11 OBC)		
12	SEISMIC RESISTANCE (1705.12 OBC)		
13	TESTING FOR SEISMIC RESISTANCE (1705.13 OBC)		
14	SPRAYED FIRE-RESISTANT MATERIALS (1705.14 OBC)		
15	FIRE RESISTANT COATINGS (1705.15 OBC)		
16	EFIS SYSTEM (1705.16 OBC)		
17	FIRE-RESISTANT PENETRATION/JOINT (1705.17 OBC)		
18	TESTING FOR SMOKE CONTROL (1705.18 OBC)		

SUPPLEMENTAL STRUCTURAL SPECIFICATIONS:

GENERAL STRUCTURAL NOTES

- GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS EXIST BETWEEN THE CONTRACT DOCUMENTS AS TO THE QUALITY OR QUANTITY OF WORK REQUIRED, THE BETTER QUALITY OR GREATER QUANTITY SHALL BE PROVIDED UNLESS INSTRUCTIONS ARE OTHERWISE GIVEN IN WRITING.
- GOVERNING CODE: 2017 OHIO BUILDING CODE.
 - THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, OR TIE-DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.
 - IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
 - THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS RELATING TO EXISTING CONSTRUCTION AND EXISTING SERVICE ON THE SITE.

CONCRETE

- COMPLY WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS [ACI 301]", ACI 318, ACI 315, ACI 306 [FOR WINTER CONCRETING], AND ACI 305 [FOR HOT WEATHER CONCRETING].
- KEEP COPY OF "FIELD REFERENCE MANUAL" [ACI PUBLICATION SP-15 LATEST EDITION] AT PROJECT FIELD OFFICE.
- PROVIDE CONCRETE WITH THE FOLLOWING 28 DAY SPECIFIED STRENGTHS:
 - 4500 PSI WITH 4% ENTRAINED AIR - CONCRETE EXPOSED TO THE WEATHER IN THE FINISHED STRUCTURE. WATER CEMENT RATIO: 0.45
 - 3000 PSI WITH 3/8" AGGREGATE & 7" SLUMP - MASONRY GROUT FILL
 - 4000 PSI W/O ENTRAINED AIR - JOISTS, BEAMS, COLUMNS, AND ELEVATED SLAB.
 - 4000 PSI WITHOUT ENTRAINED AIR - SLAB ON GRADE WITH FIBERMESH
 - 3500 PSI WITH 3/8" AGGREGATE & FIBERMESH REINFORING-PRECAST TOPPING
 - 3000 PSI WITHOUT ENTRAINED AIR - ALL OTHER CONCRETE UNLESS NOTED.
- TESTING LABORATORY TO SUBMIT ONE COPY OF ALL CONCRETE TEST REPORTS DIRECTLY TO STRUCTURAL ENGINEER.
- PROVIDE REINFORCING STEEL ASTM A615, A996 TYPE R OR TYPE A WITH 60 KSI MINIMUM YIELD POINT.
- REINFORCE ALL SLABS WITH FIBERMESH
- LAP ALL COMPRESSION SPLICES 30 BAR DIAMETERS. PROVIDE TENSION LAPS IN ALL WALL AND FOOTING REINFORCEMENT. LAP ALL TENSION SPLICES IN ACCORDANCE WITH THE FOLLOWING:
 - A. IF MORE THAN 50% OF THE BARS ARE LAP SPLICED WITHIN A LAP LENGTH, PROVIDE LAPS IN ACCORDANCE WITH THE FOLLOWING TABLE [CLASS B SPLICES CATEGORY 3] UNLESS NOTED OTHERWISE:

BAR SIZE	#3	#4	#5	#6	#7	#8
TOP BAR	1'-9"	2'-5"	3'-0"	3'-10"	5'-3"	6'-10"
OTHER BAR	1'-4"	1'-10"	2'-3"	2'-11"	4'-0"	5'-3"
 - B. IF LESS THAN ONE-HALF OF THE BARS ARE LAP SPLICED WITHIN A LAP LENGTH, THE ABOVE TABULATED LAP LENGTHS MAY BE DECREASED 30% [CLASS A SPLICES].
 - C. LAP WIRE MESH 12"
- FURNISH CLEARANCES BETWEEN REINFORCING STEEL AND CONCRETE SURFACE AS FOLLOWS:
 - 3" - CONCRETE PLACED AGAINST GROUND
 - 2" - FORMED SURFACES EXPOSED TO WEATHER OR GROUND
 - 1 1/2" - BEAMS AND COLUMNS
 - 3/4" - SLABS, JOISTS AND WALLS NOT EXPOSED TO WEATHER
- BEND ALL HORIZONTAL BOND BEAM AND FOOTING BARS 1'-6" AROUND CORNERS OR PROVIDE CORNER BARS WITH 3'-0" LAP.
- PROVIDE HORIZONTAL KEYWAYS IN CONNECTION JOINTS IN BEAMS, JOISTS, SUPPORTED SLABS AND WALL FOOTINGS - MINIMUM 1 1/2" DEPTH WITH HEIGHT EQUAL TO ONE-THIRD OF MEMBER DEPTH.

LINTEL NOTES

- PROVIDE LINTELS FOR ALL DOOR, WINDOW, DUCT AND OTHER OPENINGS IN MASONRY WALLS. FOR UNSCHEDULED LINTELS, SEE ARCHITECTURAL DOOR SCHEDULE AND VIEW WINDOW DETAILS AND APPLY NOTES 2 THROUGH 7.
- WHERE ARCHITECTURAL DETAILS SPECIFY ANGLE LINTELS PER SCHEDULE.
- WHERE A STEEL SECTION PLUS A PLATE IS SPECIFIED, EXTEND THE PLATE THE LENGTH OF BEARING EACH SIDE OF MASONRY OPENING.
- PROVIDE LINTELS ABOVE MECHANICAL OPENINGS IN ALL BEARING WALLS WHERE THE OPENINGS OCCUR BELOW THE FIRST BLOCK COURSE FROM THE ROOF DECK. NON-BEARING WALLS WILL NOT REQUIRE LINTELS IF OPENING IS EXTENDED TO THE DECK. CHECK ARCHITECTURAL AND MECHANICAL DRAWINGS TO DETERMINE IF THIS REQUIREMENT EXISTS. USE TABLE IN NOTE 2 ABOVE TO DETERMINE THE ANGLES REQUIRED FOR OPENING SIZE. TO A MAXIMUM OF 4'-0". USE TABLE IN NOTE 3 ABOVE TO DETERMINE THE SECTION REQUIRED FOR OPENING SIZE GREATER THAN 4'-0". THE BOND BEAM MAY REPLACE STEEL SECTIONS ON NON-BEARING WALLS FOR OPENINGS NOT EXCEEDING 3'-0".
- ALL BEAM LINTELS SHALL BE CENTERED IN WALL UNLESS SPECIFICALLY DIMENSIONED OTHERWISE ON THE STRUCTURAL DRAWINGS.
- AT MASONRY OPENINGS HAVING CONTROL JOINTS AT ONE OR BOTH ENDS, PROVIDE A BOND BREAK AT ALL CONTACT SURFACES FOR THE LINTEL AT ITS BEARING POINT TO ALLOW HORIZONTAL MOVEMENT. PLACE BACKER ROD BETWEEN THE END OF LINTELS AND MASONRY TO PERMIT MOVEMENT.
- AT MECHANICAL OPENINGS LESS THAN 16" WIDE IN MASONRY WALLS, PROVIDE 1/4" PLATE LINTEL.
- ALL LINTELS IN EXTERIOR WALLS OR STEEL EXPOSED TO THE WEATHER IN THE FINISHED STRUCTURE SHALL BE GALVANIZED OR PAINTED.
- WHERE LINTELS ARE PERPENDICULAR OR SKEWED TO EXTERIOR VENEER THE BEARING INDICATED ON DRAWING IS ON THE STRUCTURAL ELEMENT [NOT ON VENEER] UNLESS OTHERWISE NOTED.

WOOD FRAMING

- SPECIFICATIONS AND STANDARDS: DESIGN AND DETAILING OF CONNECTIONS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AS RECOMMENDED BY NATION FOREST PRODUCTS ASSOCIATION.
- MATERIALS:
 - A. USE ONLY STRESS GRADE LUMBER WITH THE FOLLOWING MINIMUM PROPERTIES FOR DIMENSIONAL LUMBER FRAMING. UNLESS NOTED OTHERWISE ON DRAWING.

TYPE OF MEMBER	FB	FV	E
1. STUDS IN BEARING WALLS	875/1000	135	1,400,000 PSI
2. JOISTS & HEADERS	1200/1380	175	1,600,000 PSI
3. BEAMS	1200/1380	175	1,600,000 PSI
4. PARALLAMS	2900	290	2,000,000 PSI
 - B. ALL STRUCTURAL LUMBER SHALL BE KILN DRIED TO 19% MOISTURE CONTENT.
 - C. LIGHT GAUGE JOIST HANGERS AND FRAMING ANCHORS - 16 OR 18 GA GALVANIZED STEEL SIZED FOR FULL LOAD CARRYING CAPACITY OF SUPPORTED MEMBER. PROVIDE SIMPSON HANGERS OR APPROVED EQUAL. USE ASTM C185 GALVANIZED CONNECTORS WITH PRESERVATIVE TREATED WOOD UNLESS STAINLESS STEEL IS SPECIFIED ON DRAWINGS. USE GALVANIZED FASTENERS MEETING ASTM A153 WITH GALV. CONNECTORS IN EXTERIOR USES USE STAINLESS STEEL TYPE 316L FASTENERS WITH STAINLESS CONNECTORS.
 - D. PLYWOOD SHEATHING:
 - ROOFS - 5/8" OSB SHEATHING. PANEL INDEX 2410. EXCEPT WHERE NOTED OTHERWISE. USE 8d [0.131" x 2 1/2" MIN.]
 - E. WHERE PLYWOOD FILLERS ARE CALLED OUT WITH LINTELS, THEY SHALL BE CONTINUOUS PIECES FOR LENGTH OF OPENING AND SHALL BE NAILED TO 2xS WITH TWO ROWS OF 10d NAILS AT 12" O.C.
 - F. PROVIDE SOLID BLOCKING IN FLOOR CONSTRUCTION UNDER BEARING WALLS, POSTS, MULTIPLE STUDS OR BEAM BEARINGS.
 - G. ALL MULTIPLE STUDS AT BEAM AND LINTEL BEARING SHALL BE NAILED TOGETHER WITH 10d AT 12" O.C.
 - H. MULTIPLE MEMBER BEAMS AND LINTELS SHALL BE NAILED TOGETHER WITH TWO ROWS OF 10d AT 12" O.C. USE 16d NAILS FOR MICROLLAMS.
 - I. PROVIDE DOUBLE STUDS AT ALL LINTEL AND WOOD BEAM BEARINGS UNLESS NOTED OTHERWISE.
 - J. WHEN SCREWS OR LAG BOLTS ARE REQUIRED, PILOT HOLES SHOULD BE USED FOR THE INSTALLATION. PROVIDE HOLE 50% OF FASTENER DIAMETER FOR S-P-F AND 70% FOR SO, PINE OR OAK.
 - K. FOR LUMBER EXPOSED TO WEATHER USE PRESERVATIVE TREATED LUMBER WITH ACO PRESERVATIVE. PROVIDE 0.20 PCF RETENTION FOR ABOVE GROUND USE. PROVIDE .040 RETENTION FOR GROUND CONTACT USE & 0.60 RETENTION FOR IN GROUND USE. BORATE PRESERVATIVE SHOULD BE USED FOR INTERIOR SILL PLATES ON CONCRETE OF MASONRY.

- CONSTRUCTION REQUIREMENTS:
 - A. MAKE ALL CUTS TRUE AND SQUARE FOR FULL BEARING AT STRUCTURAL JOINTS.
 - B. PROVIDE PLYWOOD NAILING AS RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION.
 - C. CONNECT ALL FRAMING AND SHEATHING SECURELY TOGETHER WITH NAILS, SPIKES, OR FRAMING ANGLES. FOLLOW MINIMUM REQUIREMENTS OF OHIO BUILDING CODE TABLE 2304.9.1 "FASTENING SCHEDULE" UNLESS NOTED OTHERWISE ON DRAWINGS.
- NAILING REQUIREMENTS ARE BASED ON COMMON NAIL SIZES. ADDITIONAL NAILING WILL BE REQUIRED IF CEMENT COATED SINKERS OR BOX NAILS ARE USED. OBTAIN WRITTEN APPROVAL FROM STRUCTURAL ENGINEER BEFORE MAKING ANY SUBSTITUTION. NAIL GUL NAILS SHOULD MATCH THE DIAMETER OF THE SPECIFIED NAIL.
- ALL SILL PLATES IN CONTACT WITH MASONRY WITHIN 8" OF EARTH OR ON CONCRETE BEARING ON EARTH SHALL BE PRESERVATIVE TREATED.

WOOD TRUSS NOTES

- TRUSS FABRICATOR TO DESIGN ALL TRUSS CONNECTIONS AND SUBMIT SHOP DRAWINGS FOR ALL TRUSSES/ DO NOT DEVIATE FROM TRUSS CONFIGURATION SHOWN ON DRAWINGS.
- PROVIDE UPWARD CAMBER IN TRUSS ELEG TO THE LONG TERM DEAD LOAD DEFLECTION OF THE TRUSS.
- FOR FORCES SHOWN ON DRAWINGS [H] INDICATES TENSION; [I] INDICATES COMPRESSION.
- ALL TRUSS MEMBERS TO BE #2 SOUTHERN PINE KILN DRIED UNLESS NOTED OTHERWISE. ALL MEMBERS SHALL BE CUT TO BEAR AND BUTTED TIGHT. #3 WEBS ARE NOT PERMITTED.
- THE PROCEDURE AND EXECUTION OF ERECTING THE TRUSSES IS THE CONTRACTORS RESPONSIBILITY. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE TRUSSES DURING ERECTION AS WELL AS ALL PERMANENT BRACING REQUIRED. FOLLOW BRACING RECOMMENDATIONS OF BUILDING COMPONENT SAFETY INFORMATION BC31-143 BY WTKA & TPL.
- ATTACH PERMANENT LATERAL BRACING TO WALLS OR ROOF FRAMING AT EACH END AND PROVIDE "X" BRACING AT 20' MAX. SPACING.
- DESIGN LOADS:
 - TOP CHORD LIVE LOAD 25 PSF DEAD LOAD 10 PSF
 - BOTTOM CHORD DEAD LOAD 10 PSF
- PROVIDE LARGER WEB MEMBERS AT CARRIER TRUSSES AS NECESSARY TO PROVIDE SUPPORT FOR MEMBERS FRAMING INTO TRUSS.
- PROVIDE WEDGE BLOCKS OR BOTTOM CHORD REINFORCING AS REQUIRED WHEN INTERSECTION OF CENTROID OF TOP CHORD AND BOTTOM CHORD OF TRUSS DOES NOT OCCUR OVER SUPPORT.
- PROVIDE PLYWOOD OR OSB SHEATHING TO BRACE TRUSS TOP CHORD TO ALL LOCATIONS OF PROVIDE CONTINUOUS 1x4 LATERAL BRACING AT 24" O.C. AT TRUSS TOP CHORD AND AT ALL TRUSS TOP CHORD PANEL POINTS.
- PROVIDE BOTTOM CHORD LATERAL BRACING FOR TRUSSES THAT ARE LIGHTLY LOADED TO RESIST UPLIFT FORCES.
- PROVIDE LARGER CHORD OF WEB MEMBERS WHERE REQUIRED FOR FASTENING AND SUPPORT OF JOIST HANGERS.
- PROVIDE HURRICANE CLIPS AT EACH END OF TRUSSES TO RESIST UPLIFT FORCES SHOWN ON THE TRUSS SHOP DRAWINGS UNLESS NOTED OTHERWISE ON DRAWINGS.

MISCELLANEOUS

- DESIGN SOIL BEARING 1,500 PSF. NOTIFY ARCHITECT AND ENGINEER IF SOIL BEARING CAPACITY IS LESS THAN ASSUMED.
- VERIFY BEFORE FABRICATION OF CONSTRUCTION, ALL OPENINGS, LINTELS, EQUIPMENT SUPPORTS AND OTHER CONSTRUCTION PROVIDED FOR MECHANICAL WORK.
- STRUCTURAL SUPPORTS ARE DESIGNED FOR EQUIPMENT LOADS [INCLUDING CONCRETE PADS UNDER EQUIPMENT] SHOWN ON DRAWINGS. VERIFY EQUIPMENT WEIGHTS AND DIMENSIONS AND CONTACT STRUCTURAL ENGINEER IF ACTUAL WEIGHTS ARE GREATER THAT SHOWN.

DESIGN LOADS [SOIL CLASSIFICATION D]

- SOIL BEARING CAPACITY: 1,500 PSF - ASSUMED [REFER TO GEOTECHNICAL REPORT BY ALT AND WITZIG]
- FLOOR LIVE LOAD:
- MEZZANINE / STORAGE LIVE LOAD [LIGHT]: 125 PSF
- OFFICE LIVE LOAD: 50 PSF
- LOBBIES AND FIRST-FLOOR CORRIDORS: 100 PSF
- GARAGE: DESIGN LOAD FOR BUSES: EXCEEDS 10,000 LBS GROSS VEHICLE WEIGHT RATING FOR LIVE LOAD REQUIREMENT
- ROOF LIVE LOAD: 20 PSF
- GROUND SNOW LOAD: 20 PSF
- ICE ON SNOW: 5 PSF
- SNOW EXPOSURE FACTOR: 0.7
- SNOW LOAD IMPORTANCE FACTOR: 1.0
- THERMAL FACTOR: 1.0
- SEISMIC DESIGN CATEGORY: B
- GUARDRAILS: 200 PLF, SINGLE CONCENTRATED LOAD ALONG TOP

WIND LOAD:

- ULTIMATE DESIGN WIND SPEED: 115 MPH, 3 SEC. GUST EXPOSURE C
- WIND IMPORTANCE FACTOR: 1.0
- BUILDING CATEGORY: 11
- INTERNAL PRESSURE COEFFICIENT: +/- 0.18

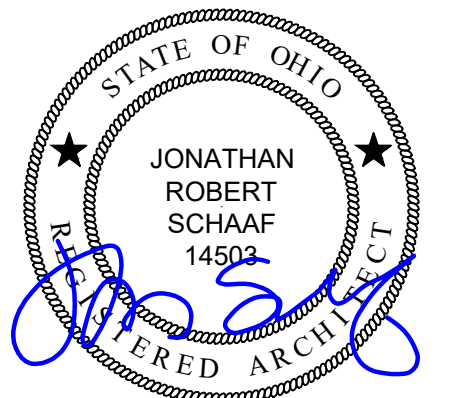
FLOOD DESIGN:

SITE IS NOT LOCATED IN FLOOD PRONE AREA, PER CORP. OF ENGINEERS.

SPECIAL LOADS: REFER TO PLANS AS APPLICABLE.

DEFLECTION LIMITATION CRITERIA

ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS	
INTERIOR WALLS / PARTITIONS	H/180
FLOORS	L/360
ALL OTHER STRUCTURAL COMPONENTS	L/240
EXTERIOR WALLS [PLASTER / STUCCO]	H/360
EXTERIOR WALLS W/ BRITTLE FINISH	H/240
EXTERIOR WALL W/ FLEXIBLE FINISH	H/180
[IN 180 PREVALS DUE TO INTERIOR GYPSUM BOARD]	
LINTELS SUPPORTING MASONRY VENEER	L/600



Jonathan Robert Schaaf #14503
Expiration Date 12/31/2027

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700 Mount Crest Court
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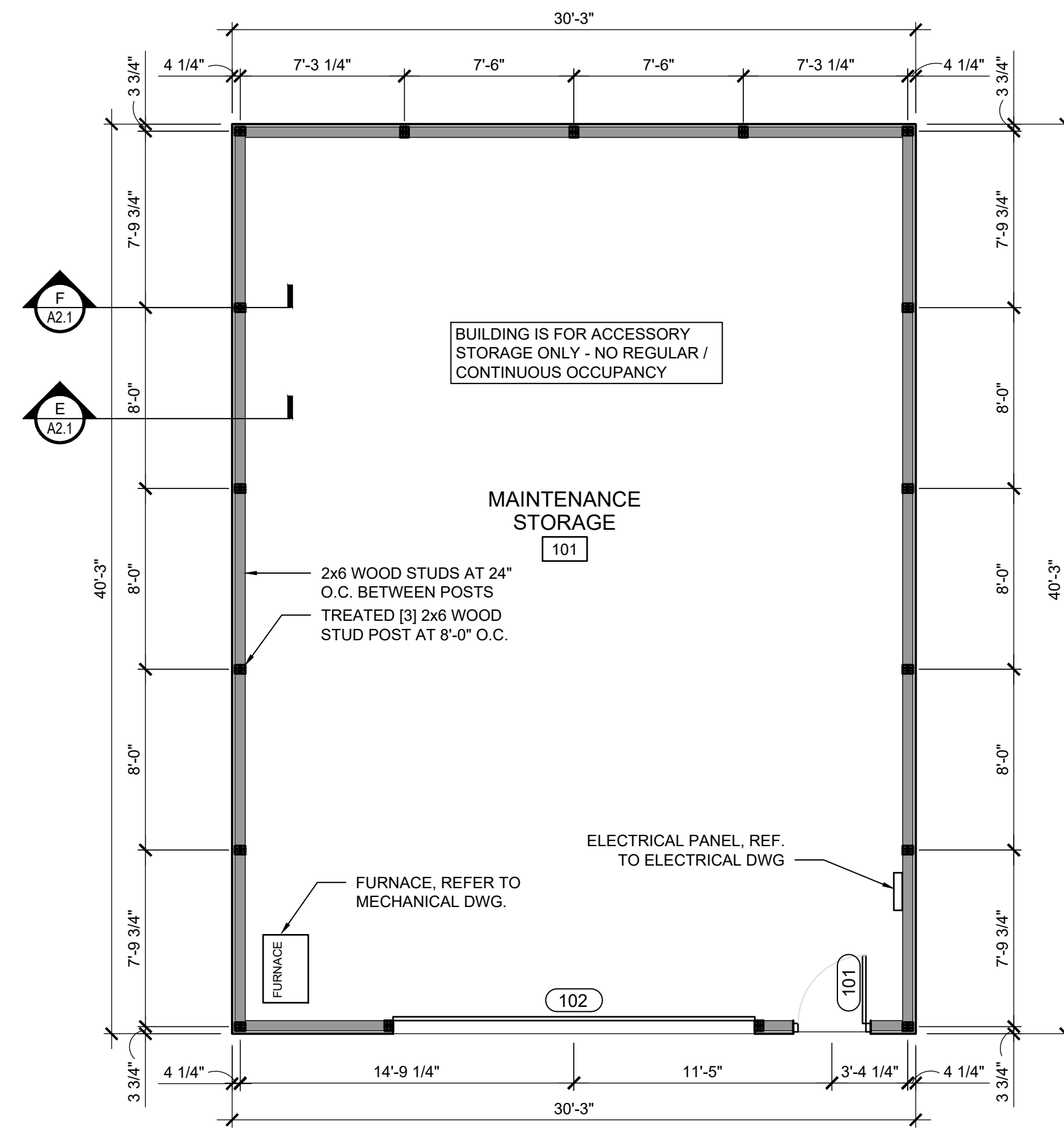
Project Number	2024-013
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Date	Issue
02.05.24	SD Review 01
02.08.24	SD Review 02
02.23.24	SD Review 03
03.21.24	Review
04.01.24	Review
02.27.26	Bid/Construction Set

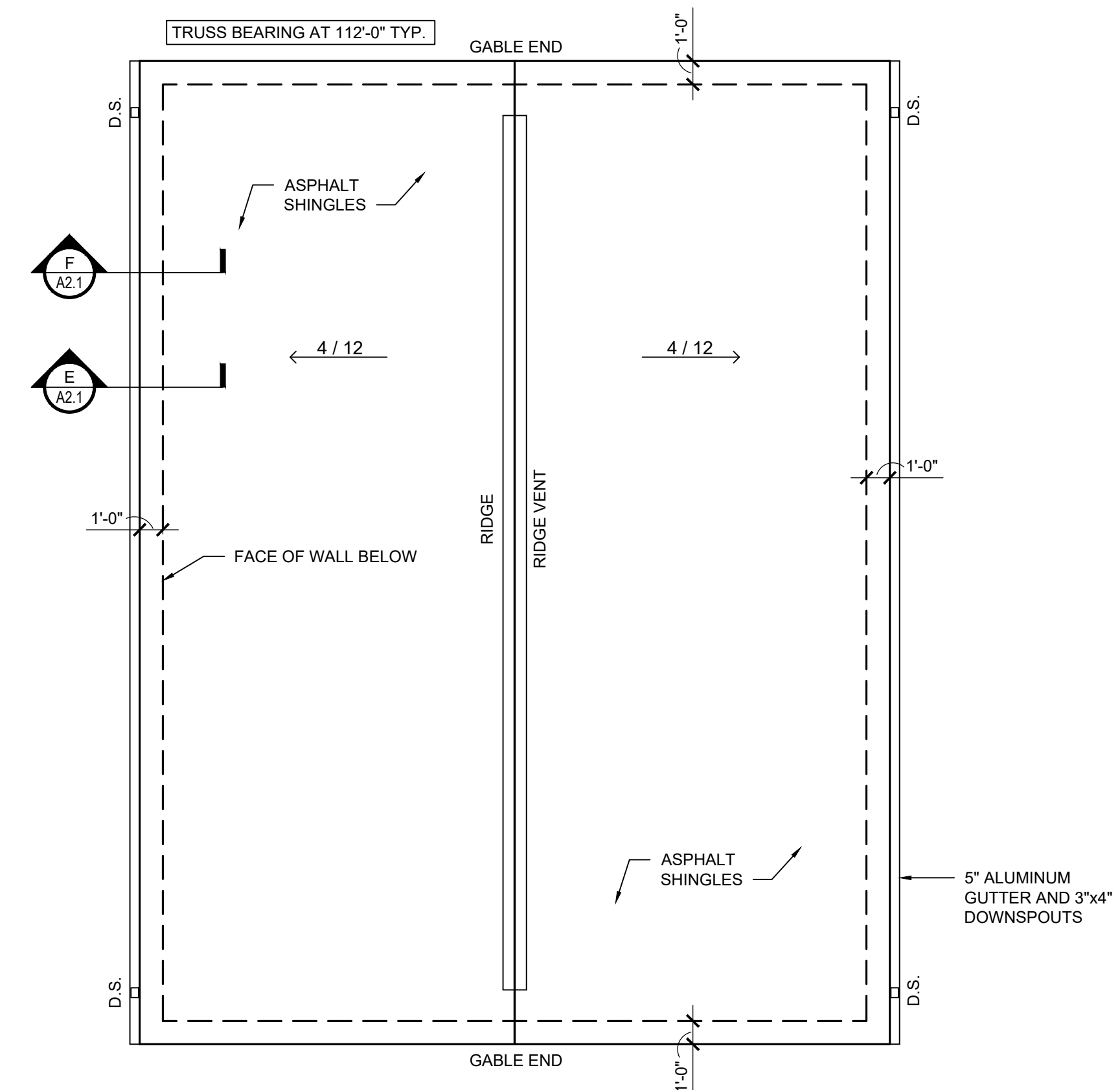
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Sheet Number

G1.3



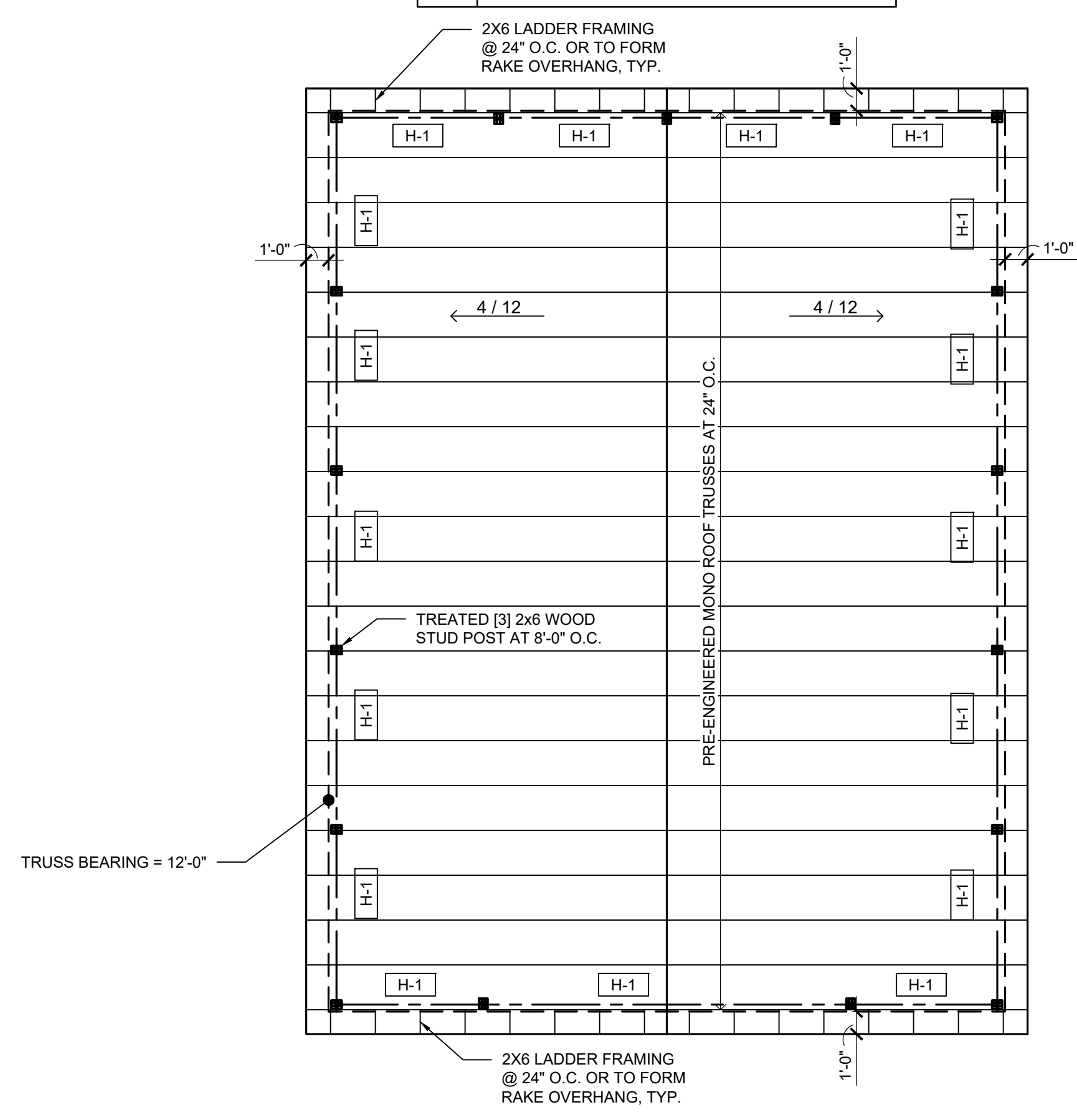
B FLOOR PLAN
SCALE: 3/16" = 1'-0"



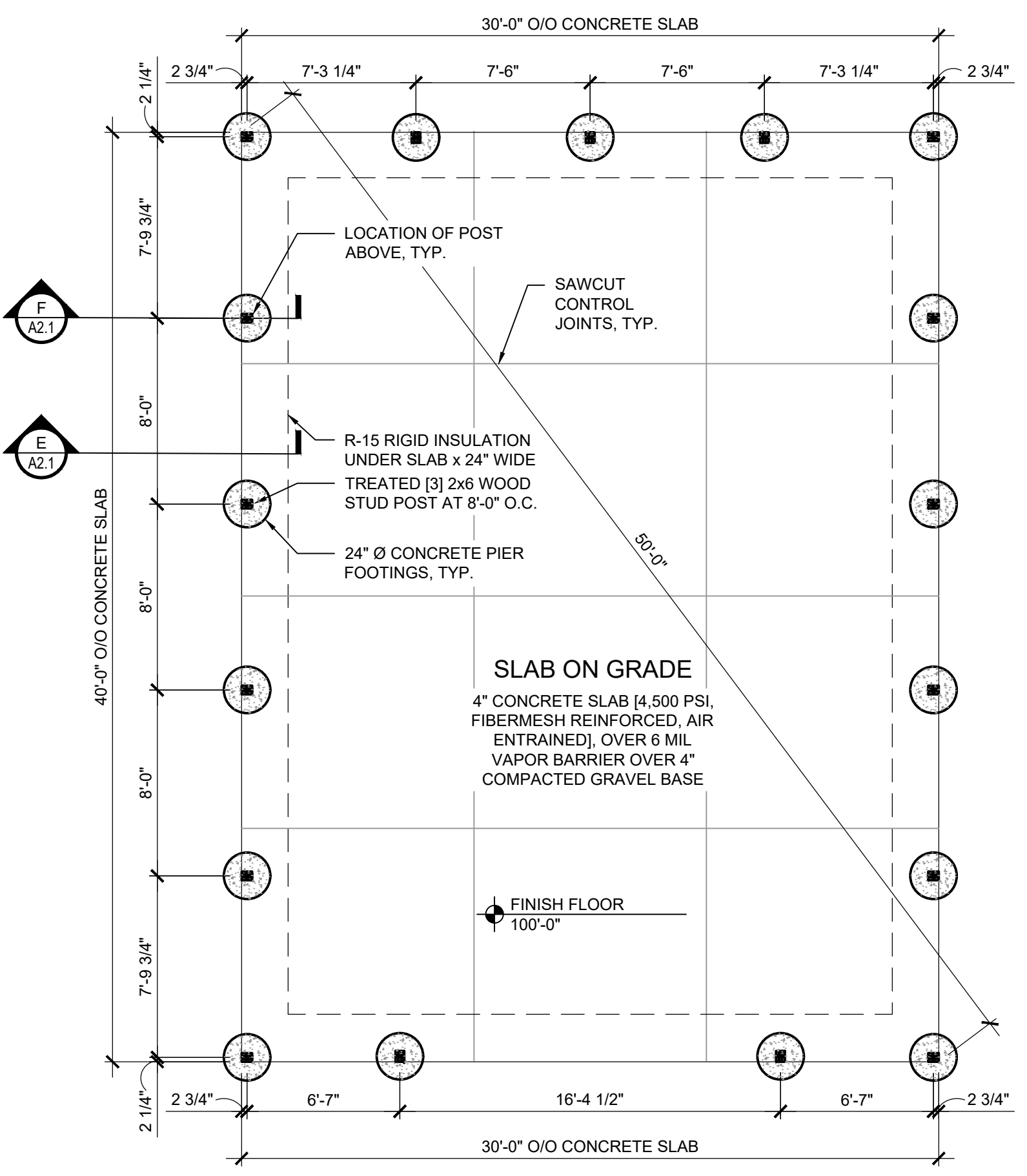
D ROOF PLAN
SCALE: 3/16" = 1'-0"

H-1 BEAM/HEADER SCHEDULE

#	SIZE
H-1	[2] 1-3/4" x 11-7/8" LVL BEAM



C ROOF FRAMING PLAN
SCALE: 3/16" = 1'-0"

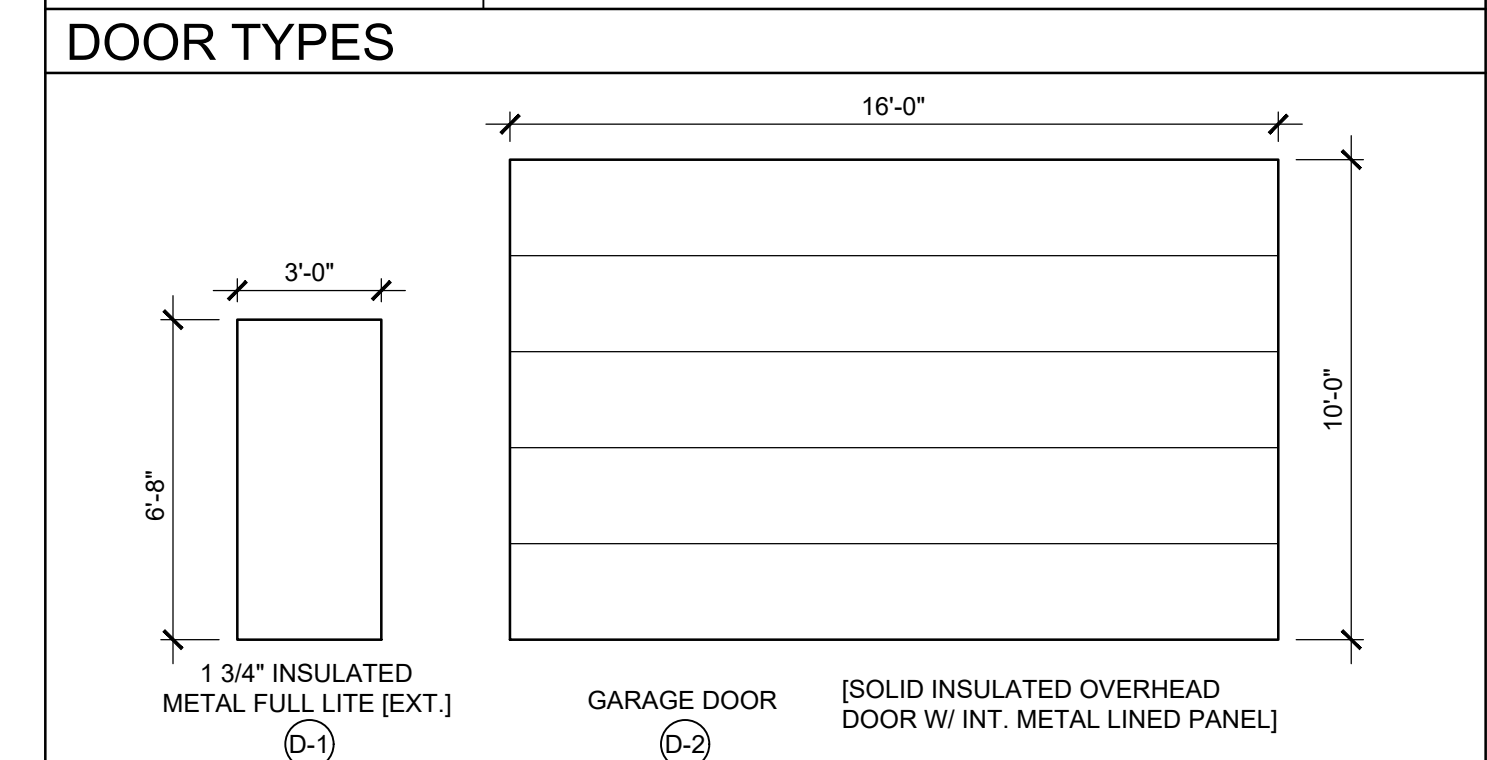


A FOUNDATION PLAN
SCALE: 3/16" = 1'-0"

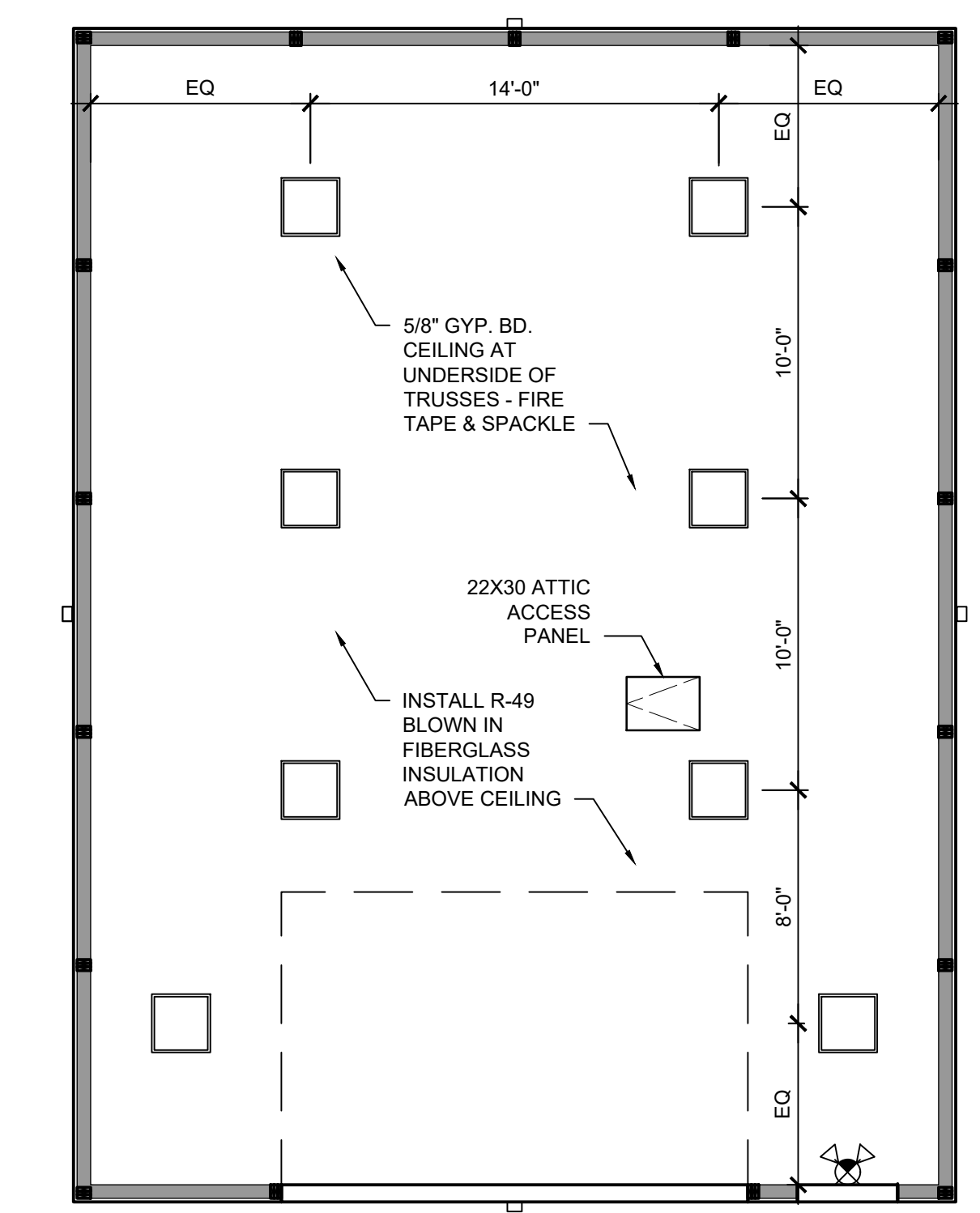
DOOR SCHEDULE

#	SIZE	NEW	EXISTING	SALVAGED	FRAME TYPE	DOOR TYPE	HWDR. SET #	FIRE RAT'G	REMARKS	DOOR ACCESS CONTROL
101	3'-0" X 6'-8"	●			F-1	D-1	H-1	-	-	
102	16'-0" X 10'-0"	●			F-2	D-2	H-2	-	-	

FRAME TYPES	HARDWARE TYPES
(F-1) INSULATED HOLLOW METAL FRAME	H-1 - BUILDING ENTRY [EXTERIOR] H-2 - GARAGE DOOR
(F-2) O.H. DOOR FRAME/TRACK WEATHER STRIPPING	HINGES: BALL BEARING STORAGE AUTOMATIC DOOR OPERATOR BY MANUFACTURER
	LOCKSET: STOP FLOOR CLOSER: YES
	STOP: FLOOR THRESHOLD: ADA WEATHERSTRIPPING: YES KICK PLATE: BOTH SIDES 8" H



- DOOR / FRAME / GLAZING NOTES**
- EXTERIOR DOOR FRAMES: H.M., PAINT FINISH PER OWNER.
 - EXTERIOR DOORS SHALL BE INSULATED H.M., PAINT FINISH PER OWNER.
 - COORDINATE DOOR/FRAME TYPES, STYLE, FINISH WITH OWNER.
 - ALL HARDWARE SHALL BE LEVER TYPE, 26D FINISH, MATCH OWNER STANDARD.
 - ALL HARDWARE TO COMPLY WITH THE LATEST REQUIREMENTS OF THE OHIO BUILDING CODE, ADAAG, NFPA, NEC AND OTHER APPLICABLE REGULATORY AGENCIES. THE HARDWARE SUPPLIER SHALL COORDINATE STYLE, FINISH, AND OPERATION REQUIREMENTS WITH THE OWNER.
 - THE HARDWARE SUPPLIER SHALL COORDINATE THE KEYING REQUIREMENTS WITH THE OWNER.
 - DOOR ACCESSORIES SUCH AS CLOSERS, KICK PLATES, DOOR STOPS, (WALL OR FLUSH MOUNTED), THRESHOLDS, ETC. AS DIRECTED BY THE OWNER. PROVIDE WALL OR FLOOR STOP AT EACH DOOR



E REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"

- GENERAL NOTES**
- INSTALL JOINT SEALANT AT ALL APPLICABLE INTERIOR AND EXTERIOR JOINTS.
 - LAYOUT
 - 2.1. LOCATE JAMBS MINIMUM OF 4" FROM CORNER TO OUTSIDE EDGE OF FRAME WHERE POSSIBLE, EXCEPT WHERE NOTED OTHERWISE.
 - 2.2. MAINTAIN ALL MANEUVERING CLEARANCE FOR ALL DOORS PER "MANEUVERING CLEARANCES AT DOORS DIAGRAM BASED UPON FIGURE 404.2.3.2 ANSI. COORDINATE ALL CONFLICTS WITH THE ARCHITECT.
 - ANY LIGHTING INDICATED ON THE REFLECTED CEILING PLAN AND ELSEWHERE ON THE ARCHITECTURAL DRAWINGS SHALL BE COORDINATED WITH THE ELECTRICAL DRAWINGS. ELECTRICAL AND MECHANICAL DRAWINGS TAKE PRECEDENCE OVER THE ARCHITECTURAL DRAWINGS.
 - ALL SWITCHING SHALL BE COORDINATED WITH ELECTRICAL DRAWINGS. COORDINATE REQUIRED SWITCH LOCATIONS.



Jonathan Robert Schaaf #14503
Expiration Date 12/31/2027



Accessory Storage Building:
Mount Crest Court
700 Mount Crest Court
Dayton, Ohio 45403

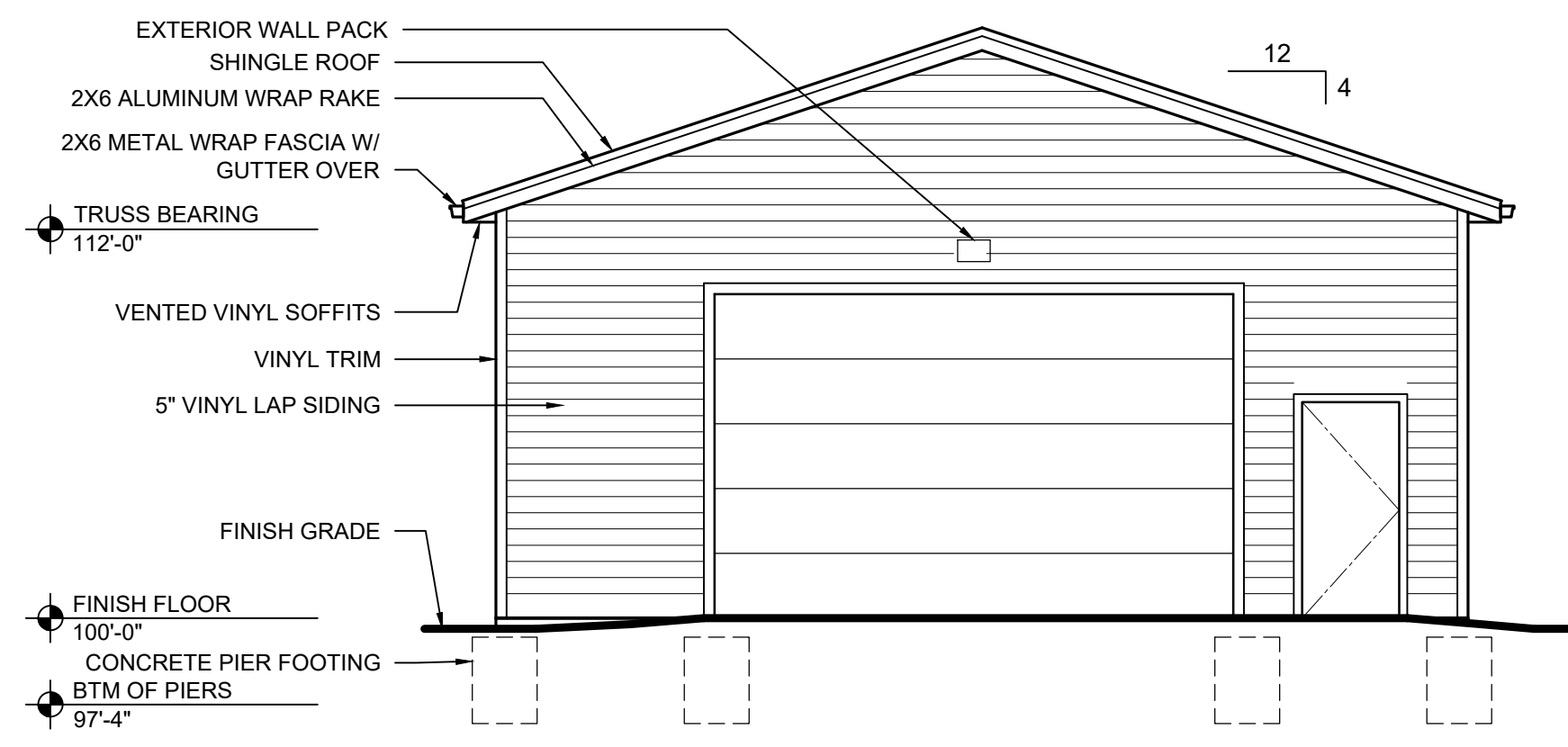
Project Number
2024-013

Date
February 27, 2026

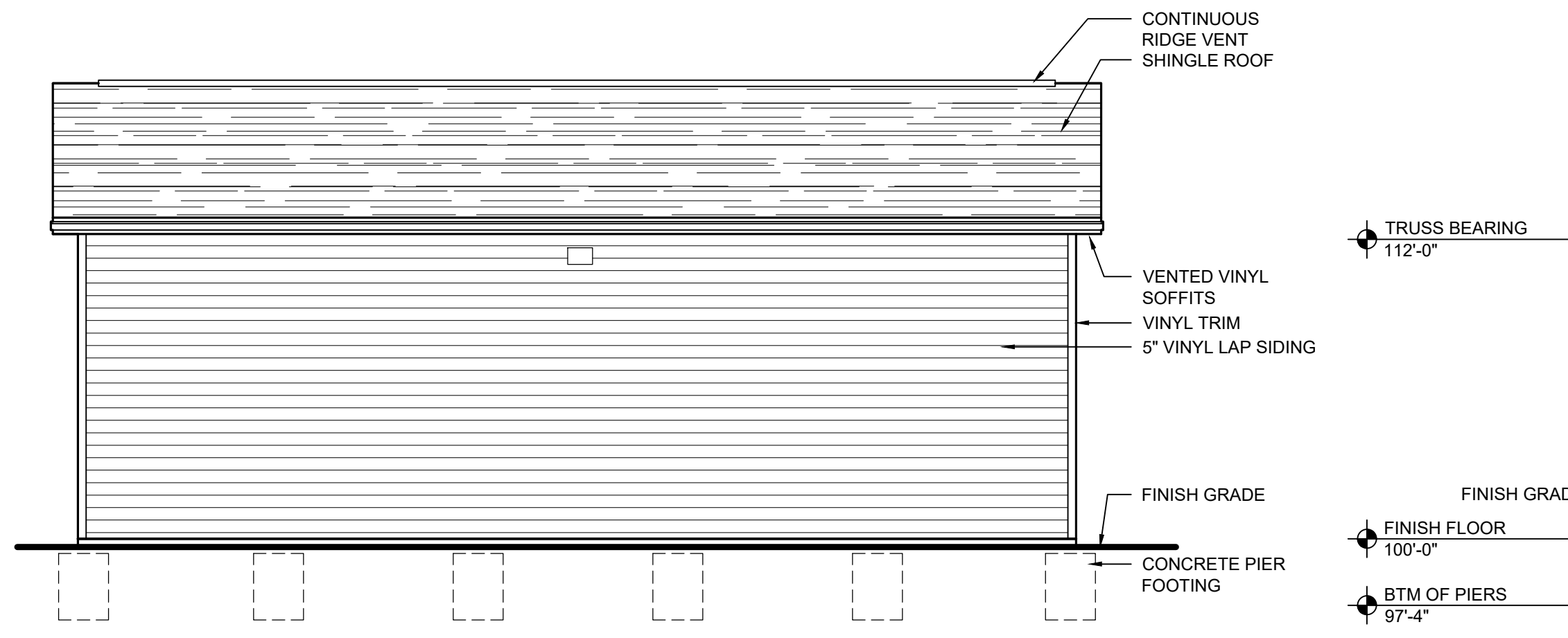
Date	Issue
02.05.24	SD Review 01
02.08.24	SD Review 02
02.23.24	SD Review 03
03.21.24	Review
04.01.24	Review
02.27.26	Bid/Construction Set

Sheet Title
Foundation Plan
Floor Plan / Roof Framing
Plan / Roof Plan

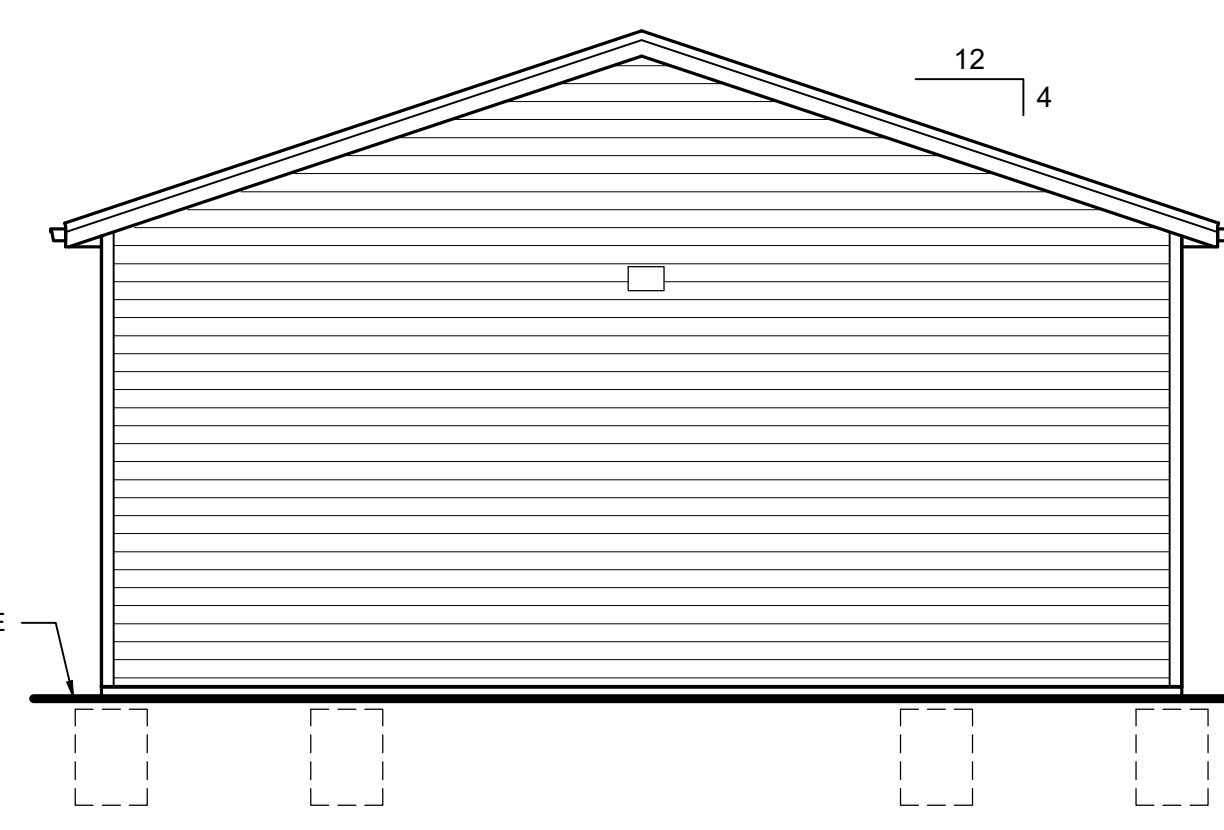
Sheet Number
A1.1



(A) SOUTH ELEVATION
SCALE: 3/16" = 1'-0"
0 3 6 12

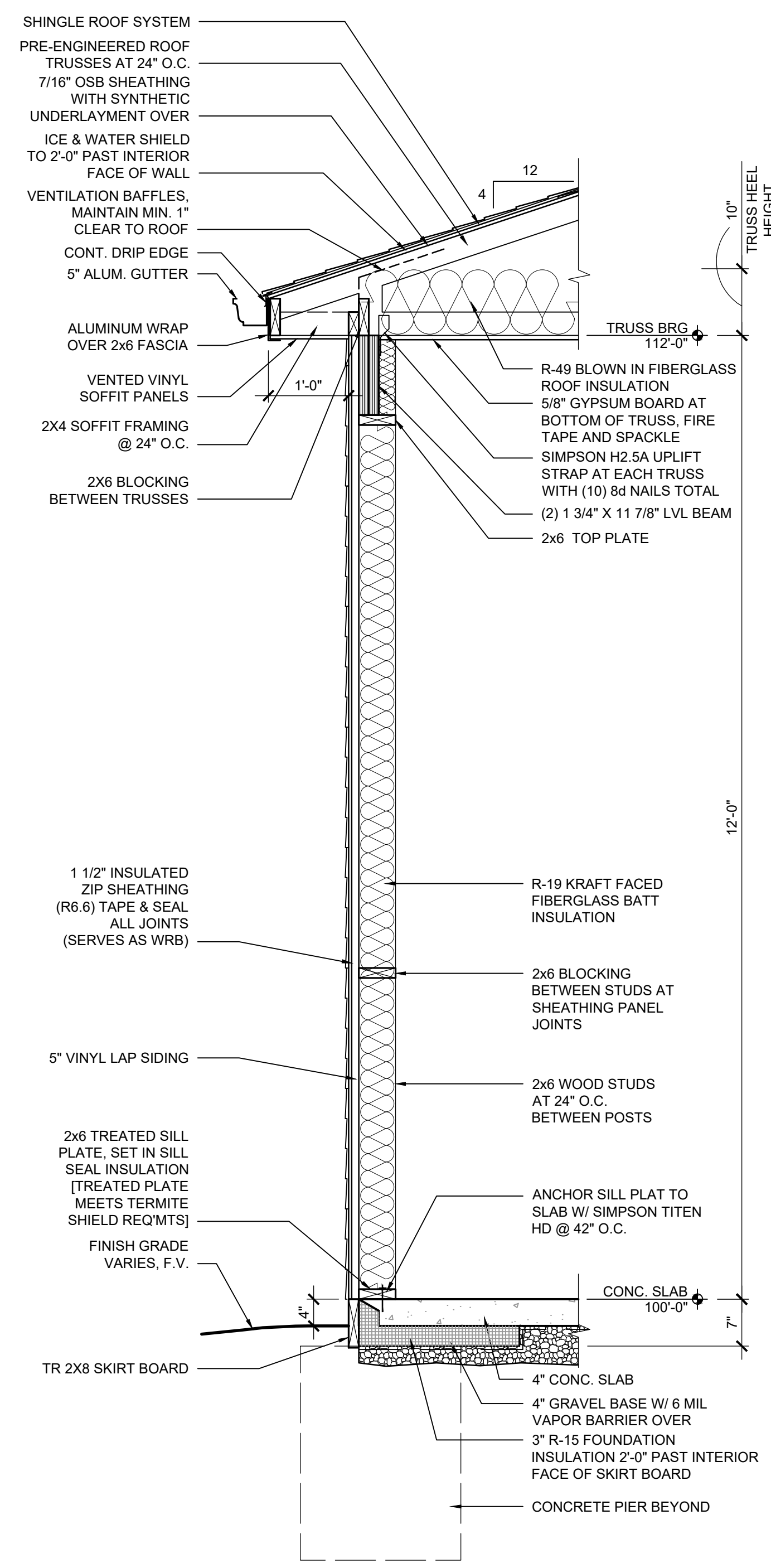


(B) EAST & WEST ELEVATIONS
SCALE: 3/16" = 1'-0"
0 3 6 12

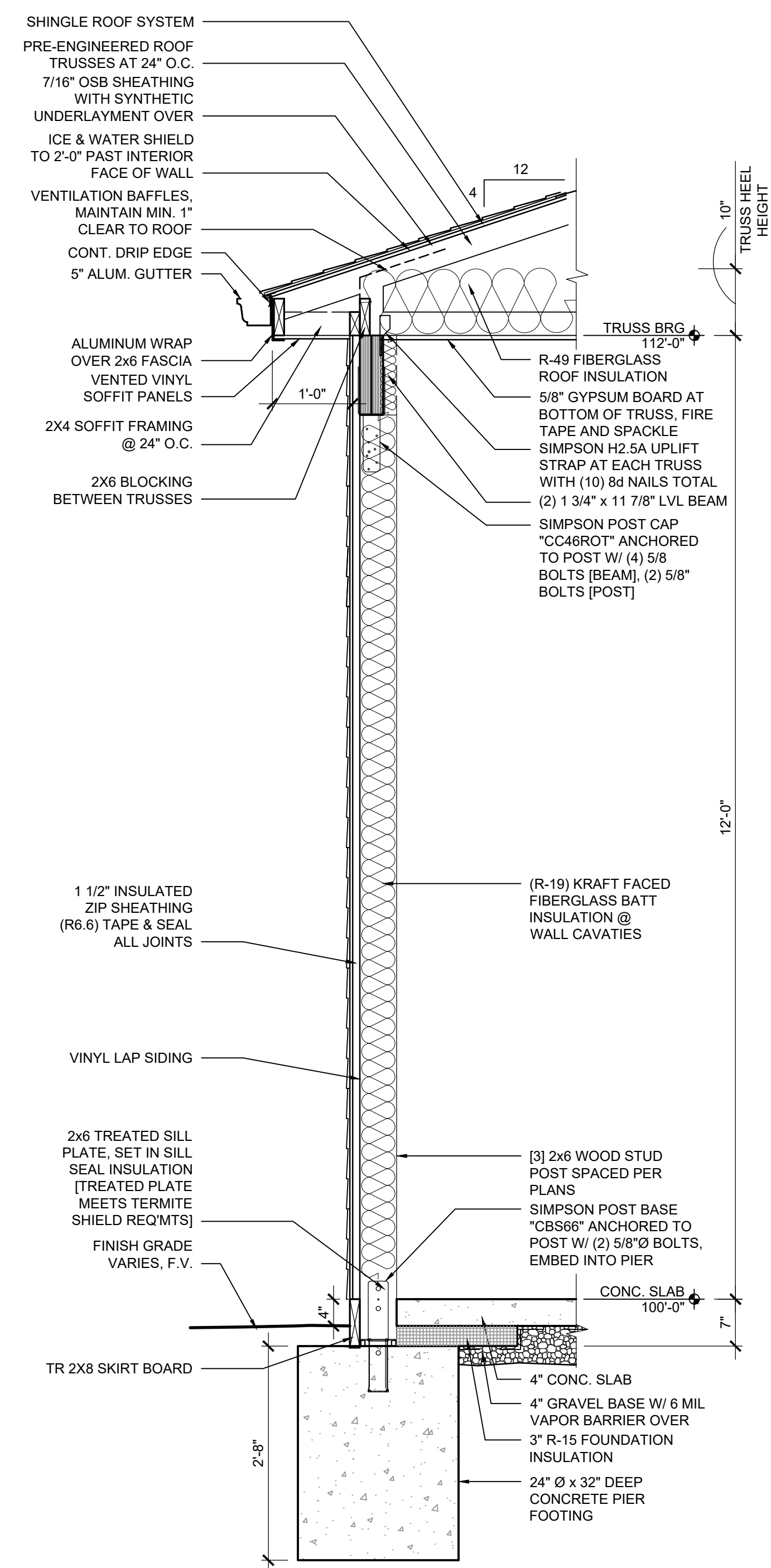


(C) NORTH ELEVATION
SCALE: 3/16" = 1'-0"
0 3 6 12

NOTES TYPICAL FOR ALL ELEVATIONS
MATCH EXISTING COLORS & FINISHES TO EXISTING BUILDING AS POSSIBLE



(E) SECTION
SCALE: 3/4" = 1'-0"
0' 6" 12" 24"



(F) SECTION
SCALE: 3/4" = 1'-0"
0' 6" 12" 24"

STATE OF OHIO
JONATHAN ROBERT SCHAAF
14503
REGISTERED ARCHITECT
Jonathan Robert Schaaf #14503
Expiration Date 12/31/2027
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Accessory Storage Building:
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Dayton, Ohio 45403

Project Number	
2024-013	
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02.05.24	SD Review 01
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03.21.24	Review
04.01.24	Review
02.27.26	Bid/Construction Set
Sheet Title	
Foundation Plan Floor Plan / Roof Framing Plan / Roof Plan	
Sheet Number	

A2.1

GENERAL NOTES

- A. DO NOT SCALE DRAWINGS. IF DIMENSIONS CANNOT BE DETERMINED OR DOCUMENTS ARE IN CONFLICT (WITH THEMSELVES OR FIELD CONDITIONS), THE CONTRACTOR MUST OBTAIN CLARIFICATION FROM THE ARCHITECT PRIOR TO CONTINUATION OF WORK.
- B. CONTRACTOR(S) SHALL VISIT THE SITE TO ACQUAINT THEMSELVES WITH THE EXISTING OR NEWLY INSTALLED CONDITIONS. CONTRACTOR(S) SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, UTILITIES, AND EXISTING OR NEWLY INSTALLED CONDITIONS PRIOR TO CONSTRUCTION.
- C. THE CONSTRUCTION DOCUMENTS AND DRAWING NOTES / SPECIFICATIONS ARE INTENDED TO DESCRIBE AND PROVIDE FOR A FINISHED PIECE OF WORK. THE WORK SHALL BE COMPLETED IN EVERY DETAIL EVEN THOUGH EVERY ITEM NECESSARILY INVOLVED IS NOT PARTICULARLY MENTIONED OR SPECIFIED. ALL WORK SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS AND / OR MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS. IF ANY CONTRACTOR IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE DOCUMENTS, OR FINDS DISCREPANCIES IN OR OMISSIONS FROM ANY PART OF THE DOCUMENTS, HE MUST CONTACT THE ARCHITECT FOR CLARIFICATION.
- D. ALL DIMENSIONS ARE TO FACE OF STUD, CONCRETE, MASONRY, OR CENTERLINE OF COLUMN, UNLESS NOTED OTHERWISE. WHEN EXISTING CONDITIONS ARE SHOWN, DIMENSIONS ARE TO FACE OF EXISTING FINISH, UNLESS NOTED OTHERWISE.
- E. FINISH FLOOR ELEVATIONS ARE FOR GENERAL REFERENCE. REFER TO CIVIL SHEETS FOR ACTUAL FINISH FLOOR ELEVATIONS.
- F. EQUIPMENT AND FURNITURE SHOWN IS FOR REFERENCE ONLY, EQUIPMENT AND FURNITURE PROVIDED BY OWNER (UNLESS NOTED OTHERWISE). COORDINATE EQUIPMENT AND FURNITURE INSTALLATION AND UTILITY CONNECTIONS WITH OWNER AND OWNER'S SUPPLIER.
- G. **DEFINITIONS:**
NECESSARY: WORK NEEDED TO COMPLETE THE WORK TO "MAKE IT OPERATIONAL".
REQUIRED: WORK NEEDED TO BE IN COMPLIANCE WITH BUILDING CODE, GOVERNING CODE, OR JURISDICTION HAVING AUTHORITY.
PROVIDE: RESPONSIBLE FOR PURCHASE, DELIVERY, RECEIVING, INSPECTION, STORAGE, PREPARATION, AND INSTALLATION OF ITEM(S).
FURNISH: RESPONSIBLE FOR PURCHASE AND DELIVERY OF ITEM(S).
INSTALL: RESPONSIBLE FOR RECEIVING, INSPECTION, STORAGE, PREPARATION, AND INSTALLATION OF ITEM(S).
BASIS OF DESIGN: AN ACCEPTABLE MANUFACTURER OR PRODUCT, DESIGNATED BY THE DESIGN PROFESSIONAL, WHICH EXHIBITS THE INTENDED STANDARDS AND DESIGN CRITERIA THAT MUST BE MET FOR PERFORMANCE. THE ITEM(S) INDICATED MAY BE PROVIDED OR AN ITEM OF EQUIVALENT APPEARANCE, AESTHETIC, QUALITY, MATERIAL, CONSTRUCTION, AND PERFORMANCE MAY BE SUBSTITUTED SUBJECT TO THE ARCHITECT'S OR DESIGN PROFESSIONAL'S APPROVAL. (REFER TO THE "SUBSTITUTIONS" SPECIFICATION FOR ADDITIONAL INFORMATION)
OR EQUAL: MAY FOLLOW A "BASIS OF DESIGN" OR OTHER SPECIFIED MANUFACTURER OR PRODUCT AND INDICATES THAT AN ITEM OF EQUIVALENT APPEARANCE, AESTHETIC, QUALITY, MATERIAL, CONSTRUCTION, AND PERFORMANCE MAY BE SUBSTITUTED SUBJECT TO THE ARCHITECT'S OR DESIGN PROFESSIONAL'S APPROVAL. (REFER TO THE "SUBSTITUTIONS" SPECIFICATION FOR ADDITIONAL INFORMATION)

HVAC GENERAL SPECIFICATIONS

- A. UPON COMPLETION OF ALL HVAC WORK, THE CONTRACTOR SHALL SUBMIT (2) COPIES OF THE MANUFACTURER'S OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT TO THE OWNER. THE CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A COMPLETE SET OF RECORD DRAWINGS WITH ANY AND ALL CHANGES OR MODIFICATIONS TO THE DESIGN, CONSTRUCTION, SYSTEMS, OR EQUIPMENT CLEARLY INDICATED; SHOP DRAWINGS; INFORMATION ON THE THERMOSTATS, CONTROL WIRING DIAGRAMS, AND OTHER PERTINENT INFORMATION.
- B. **HVAC EQUIPMENT:** ALL EQUIPMENT SHALL BE COMPLETE IN EVERY RESPECT WITH ALL DEVICES, APPURTENANCES, AND ACCESSORIES PROVIDED TO MEET THE DESIGN INTENT AND OPERATION OF THE SYSTEMS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALL AIR CONDITIONING EQUIPMENT MUST HAVE A CONDENSATE DRAIN AND BE TRAPPED IN ACCORDANCE WITH MANUFACTURER'S DATA. ALL COMPRESSORS ARE TO INCLUDE A 5-YEAR EXTENDED WARRANTY.
- C. **NOISE AND VIBRATION:** MECHANICAL AND ELECTRICAL EQUIPMENT IS TO OPERATE WITHOUT OBJECTIONABLE NOISE OR VIBRATION. ALL MOTOR OPERATED OR ROTATING EQUIPMENT IS TO BE VIBRATION ISOLATED OR FREE FROM ALL BEAMS, COLUMNS, FLOORS, CEILINGS, JOISTS, WALLS, AND OTHER PARTS OF THE BUILDING STRUCTURE. HANGER RODS FOR ALL PIPING, EQUIPMENT, AND DUCTWORK CONNECTED TO MOTOR OPERATED OR ROTATING EQUIPMENT IS TO BE PROVIDED WITH KINETICS OR APPROVED EQUAL FIBERGLASS ISOLATOR OR HANGERS. PROVIDE FLEXIBLE COLLARS IN ALL CONNECTIONS BETWEEN VIBRATING EQUIPMENT (FANS, ROOFTOP UNITS, ETC.) AND DUCTS. THE FLEXIBLE CONNECTION IS TO BE RATED FOR THE OPERATING PRESSURE OF THE SYSTEM.
- D. **CURBS AND STEEL FRAMING FOR SUPPORT:** PROVIDE ALL NECESSARY CURBS AND STEEL FRAMING REQUIRED TO INSTALL ALL HVAC EQUIPMENT AS DESCRIBED OR IMPLIED ON THE DRAWINGS. CURBS SHALL BE OF THE SAME MANUFACTURER OF THE EQUIPMENT SUPPORTED. INSULATE UNDER THE COMPRESSOR SECTION TO PREVENT CONDENSATION. ALL CURBS MUST BE INSTALLED SO THAT TOP OF CURBS ARE LEVEL.
- E. **DUCTWORK:** DUCTWORK IS TO BE FABRICATED WITH GALVANIZED SHEET STEEL (NO FIBERGLASS ALLOWED) IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE" AND NAIMA "FIBROUS GLASS DUCT CONSTRUCTION STANDARDS," LATEST EDITIONS, CONFORMING TO THE REQUIREMENTS IN THE REFERENCED STANDARD FOR METAL THICKNESS, REINFORCING TYPES AND INTERVALS, TIE ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS. ALL JOINTS, SEAMS, AND CONNECTIONS MUST BE SECURELY FASTENED AND SEALED AIRTIGHT IN COMPLIANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE AND OHIO MECHANICAL CODE.
- F. **BRANCH DUCTWORK:** ALL DUCT BRANCHES TO DIFFUSERS ARE TO BE RECTANGULAR OR ROUND RIGID DUCT. ALL BRANCH TAKEOFFS FROM RECTANGULAR MAINS TO BE CONNECTED TO SPIN COLLARS WITH SCOOPS AND QUADRANT DAMPERS.
- G. **DUCTWORK INSULATION:** INSTALL INSULATION PRODUCTS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES. INSULATION MUST COMPLY WITH NFPA 90A. DUCT SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. INSULATE DUCTWORK PER THE DUCT CONSTRUCTION SCHEDULE. PROVIDE DUCTWORK INSULATION WITHOUT INTERRUPTION THROUGH WALLS, FLOORS, AND SIMILAR PENETRATIONS. ALL INSULATION SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NO HIGHER THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM C411, OR AS REQUIRED BY LOCAL CODES.
- H. WHERE ROUND DUCTWORK IS INDICATED ON PLANS, PROVIDE RECTANGULAR DUCTWORK, IF ROUND DUCTWORK CANNOT BE INSTALLED BECAUSE OF OBSTRUCTIONS, INSUFFICIENT CLEARANCES OR OTHER CAUSES DUE TO FIELD CONDITIONS. CONTRACTOR'S OPTION TO INSTALL RECTANGULAR DUCTWORK IN LIEU OF INDICATED ROUND DUCTWORK AT OTHER LOCATIONS. SIZE ALL RECTANGULAR DUCTWORK CONVERSIONS COMPARABLE TO INDICATED DUCTWORK SIZE PER SMACNA "HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE," LATEST EDITION. SHOULD THE CONTRACTOR BE IN DOUBT OF THE REQUIREMENTS UNDER THIS SECTION, DUCTWORK SIZING, OR SHOULD ANY DISCREPANCY BE REVEALED BASED ON FIELD CONDITIONS, IMMEDIATELY CONTACT THE ARCHITECT FOR CLARIFICATION.
- I. PROVIDE A FLEXIBLE CONNECTION BETWEEN BONNET AND RIGID DUCT ON ALL SUPPLY AND RETURN DUCTWORK.
- J. **DIFFUSERS, GRILLES, REGISTERS, AND DAMPERS:** PROVIDE DIFFUSERS, GRILLES, AND REGISTERS AS SCHEDULED. DEVICES TO BE COMPLETE WITH BALANCING DAMPERS, FRAMES, AND ALL ACCESSORIES, FINISH AS INDICATED. PROVIDE UL LISTED (UL555) FIRE RATED DAMPERS AT ALL FIRE PARTITION OR FIRE BARRIER PENETRATIONS, WHETHER SHOWN OR NOT SHOWN ON THE PLANS. ALL GRAVITY DAMPERS REQUIRE SEALS.
- K. **SUPPORT AND BRACING:** INSTALL RIGID ROUND AND RECTANGULAR METAL DUCTWORK WITH APPROVED SUPPORT SYSTEMS INDICATED IN SMACNA STANDARDS AND STATE BUILDING CODE. SUPPORT HORIZONTAL DUCTS AT A MAXIMUM INTERVAL OF 10 FEET AND WITHIN 2 FEET OF EACH ELBOW AND WITHIN 4 FEET OF EACH BRANCH INTERSECTION USING DOUBLE STRAP HANGERS ON EACH SIDE OF FITTING. SUPPORT VERTICAL DUCTS AT A MAXIMUM INTERVAL OF 10 FEET AND AT EACH FLOOR. FLEXIBLE AND OTHER FACTORY MADE DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. NO WOOD SHALL BE USED TO SUPPORT OR BRACE DUCTS. PROVIDE SWAY AND SEISMIC BRACING AS REQUIRED BY STATE AND LOCAL CODES. PROVIDE FIXED ANCHORS AT EACH MECHANICAL DIFFUSER OR GRILLE TO CEILING GRID. CEILING GRID CONTRACTOR TO PROVIDE SUPPORT WIRES AT OPPOSITE CORNERS OF LIGHT FIXTURES, MECHANICAL DIFFUSERS, AND GRILLES TO STRUCTURE ABOVE.

HVAC GENERAL SPECIFICATIONS CONT'D

- L. **CONTROLS:** EACH UNIT TO BE CONTROLLED BY THERMOSTAT WITH PROPER STAGES OF HEATING AND COOLING - MOUNTED AT 48" AFF (REFER TO MECHANICAL SHEETS FOR MODEL NO. AND LOCATION). CONTROL WIRING IS TO BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR. POWER WIRING IS TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. THERMOSTAT SHALL BE 7-DAY PROGRAMMABLE AND SHALL BE SETUP TO INCLUDE 5 DEGREE DEADBAND, TEMPERATURE OVERLAP RESTRICTION AND TEMPERATURE SETBACK DURING UNOCCUPIED HOURS.
- M. **POWER AND CONTROL WIRING:** ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY POWER WIRING FOR HVAC EQUIPMENT FROM SUITABLE FUSED DISCONNECT SOURCE TO UNIT WITH FUSED DISCONNECT TO MEET NATIONAL ELECTRIC CODE (NEC), STATE AND LOCAL CODES. HVAC CONTRACTOR TO PROVIDE 24 VOLT OR LESS CONTROL WIRING.
- N. **STARTUP:** HVAC CONTRACTOR TO PROVIDE STARTUP PER MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- O. PROVIDE ACCESS TO ALL DAMPERS, CONTROLS, AND OTHER ITEMS IN DUCTWORK THAT REQUIRE SERVICE OR INSPECTION. IF THE ACCESS PANEL LOCATION IS EXPOSED, THE OWNER OR THE ARCHITECT MUST APPROVE IT PRIOR TO INSTALLATION. ACCESS PANELS ARE NOT REQUIRED ABOVE LAY-IN GRID TYPE CEILINGS.
- P. ALL ROOF AND/OR EXTERIOR WALL PENETRATIONS ARE TO BE SEALED AIR AND WATER TIGHT. COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS. ALL EQUIPMENT, PIPES, DUCTS, ETC. ARE TO BE INSTALLED CONCEALED ABOVE THE CEILING UNLESS SHOWN OTHERWISE.
- Q. VERIFY ALL SUSPENDED MECHANICAL LOADS WITH ARCHITECT PRIOR TO ORDERING NEW MECHANICAL EQUIPMENT.
- R. HVAC CONTRACTOR TO COORDINATE ROUTING AND LOCATION OF ALL DEVICES WITH BUILDING STRUCTURE AND OTHER CEILING MOUNTED DEVICES.
- S. HVAC CONTRACTOR TO REVIEW DRAWINGS FOR COMPLIANCE WITH LOCAL CODES AND WITH AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT. CONTACT ARCHITECT WITH ANY QUESTIONS OR CONCERNS.

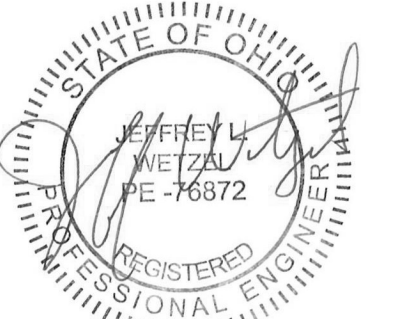
DUCTWORK SYMBOL LEGEND			
	SUPPLY OR OUTSIDE AIR DUCT UP		RADIUS RECTANGULAR ELBOW
	RETURN OR EXHAUST AIR DUCT UP		SUPPLY OR OUTSIDE AIR ROUND DUCT UP
	SUPPLY OR OUTSIDE AIR DUCT DOWN		RETURN OR EXHAUST AIR ROUND DUCT UP
	RETURN OR EXHAUST AIR DUCT DOWN		ROUND DUCT DOWN
	SUPPLY OR OUTSIDE AIR DUCT OFFSET		ROUND OFFSET
	RETURN AIR DUCT OFFSET		ROUND ELBOW
	MANUAL BALANCING DAMPER		ROUND WYE
	MOTORIZED DAMPER		RECTANGULAR BRANCH TAKEOFF
	FIRE DAMPER		RECTANGULAR DUCT TERMINATION
	RECTANGULAR TO ROUND TRANSITION		ROUND DUCT TERMINATION
	RECTANGULAR TRANSITION		
	STANDARD RECTANGULAR ELBOW		

ANNOTATION SYMBOL LEGEND			
	THERMOSTAT OR TEMP. SENSOR		SECTION SYMBOL
	HUMIDISTAT		EQUIPMENT PLAN MARK
	SWITCH		DETAIL SYMBOL
	KEYED NOTE SYMBOL		
	CONNECT TO EXISTING		
	VAV TERMINAL UNIT MARK		
	EQUIPMENT MARK		
	AIR DEVICE MARK - NECK SIZE		
	AIRFLOW		
	ROUND DUCT SIZE		
	RECTANGULAR DUCT SIZE		

AIR DEVICE AND DUCT ACCESS. LEGEND			
	RETURN AIR GRILLE		SUPPLY AIR DIFFUSER (HARD CONNECTION)
	SUPPLY AIR DIFFUSER WITH FLEXIBLE RUNOUT AND DAMPER		RETURN OR EXH. GRILLE (HARD CONNECTION)
	SIDEWALL DIFFUSER		14X14 TRANSFER OPENING IN WALL
	SUPPLY AIR DIFFUSER (HARD CONNECTION)		TRANSFER OPENING IN WALL
	RETURN OR EXH. GRILLE (HARD CONNECTION)		

PIPE SYMBOL LEGEND	
	PIPE DOWN
	PIPE UP
	TEE DOWN
	TEE UP
	PIPE BREAK (FOR CLARITY)
	CAPPED PIPE
	REFRIGERANT SUCTION PIPE
	REFRIGERANT HOT GAS PIPE

HVAC INDEX OF DRAWINGS	
SHEET NUMBER	SHEET NAME
M0.1	HVAC LEGEND AND GENERAL NOTES
M0.2	PLUMBING LEGEND AND GENERAL NOTES
M1.0	MECH FLOOR PLAN



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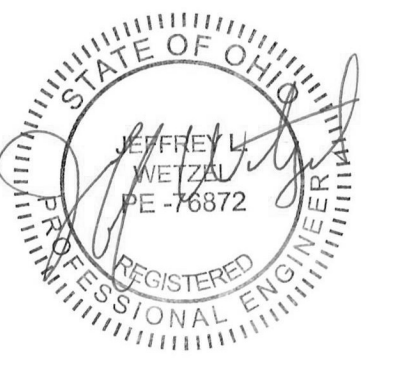
Site 01
Accessory Storage Building:
Mount Crest Court
700 Mount Crest Court
Dayton, Ohio 45403

Project Number	2024026
Date	February 27, 2026
Date	02.27.26
Issue	Bid/Construction Set

Sheet Title
HVAC LEGEND AND GENERAL NOTES

Sheet Number

M0.1



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Site 01
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DRAWING NOTES

1. PROVIDE DIRT LEG, GAS ISOLATION VALVE, UNION, AND FLEXIBLE HOSE CONNECTION TO MECHANICAL EQUIPMENT. REFER TO DETAIL 2, ON THIS SHEET FOR ADDITIONAL INFORMATION. EXTEND FURNACE VENT THRU ROOF AND TERMINATE WITH CONCENTRIC VENT. INSTALL PER MANUFACTURER'S GUIDELINES.
2. EXTEND CONDENSING FURNACE DRAIN THRU WALL AND ELBOW DOWN, PROVIDE SPLASH BLOCK.
3. INSTALL DUCTWORK AT UNDERSIDE OF STRUCTURE.
4. RETURN AIR OPEN TO SPACE. PROVIDE WITH 1" FILTER RACK.

FURNACE SCHEDULE

PLAN MARK	BASIS OF DESIGN		CFM	VENT. AIR CFM	ESP	HEATING		NOM. COOL CAPACITY (TONS)	DIMENSION			ELECTRICAL		NOTES	
	MFR	MODEL				MBH INPUT	MBH OUTPUT		WIDTH	DEPTH	HEIGHT	V/PH	MCA		MOCP
FUR-1	CARRIER	59SC2D060E14-12	1,100	-	0.5	60	56	-	14.2"	29.5"	35"	115/1	12	15	1,2,3,4,5

GENERAL NOTES:
A. ACCEPTABLE ALTERNATE MANUFACTURER BY RHEEM OR BRYANT.

NOTES:
1. PROVIDE WITH NON-FUSED DISCONNECT SWITCH.
2. PROVIDE HOUSEKEEPING PAD.
3. PROVIDE WITH FILTER RACK AND 1" PLEATED SPARE SET OF FILTERS.
4. PROVIDE CONCENTRIC VENT KIT AND NEUTRALIZING KIT.
5. PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT.

AIR INLETS AND OUTLETS SCHEDULE

PLAN MARK	DESCRIPTION	BASIS OF DESIGN		MOUNTING DUCT	FINISH	MATERIAL	ACCESSORIES	NOTES
		MANUF.	MODEL					
C1	DOUBLE DEFLECTION SUPPLY GRILLE	TITUS	272RL	DUCT	WHITE	STEEL	OPPOSED BLADE DMPR	

GENERAL NOTES:
A. LAY-IN AIR DEVICES SHALL BE DESIGNED TO INSTALL INTO A 24"x24" OR 24"x48" ACT CEILING SYSTEM
B. ACCEPTABLE ALTERNATE MANUFACTURERS: PRICE, KREUGER AND TUTTLE & BAILEY
C. PROVIDE AUXILIARY MOUNTING FRAME FOR DEVICES INSTALLED WITHIN GYPSUM, PLASTER, TILE OR OTHER SIMILAR SURFACE
D. UNLESS OTHERWISE DESIGNATED ON PLANS, SUPPLY DIFFUSERS SHALL BE 4-WAY DIRECTIONAL DISCHARGE.

NOTES:
1. .

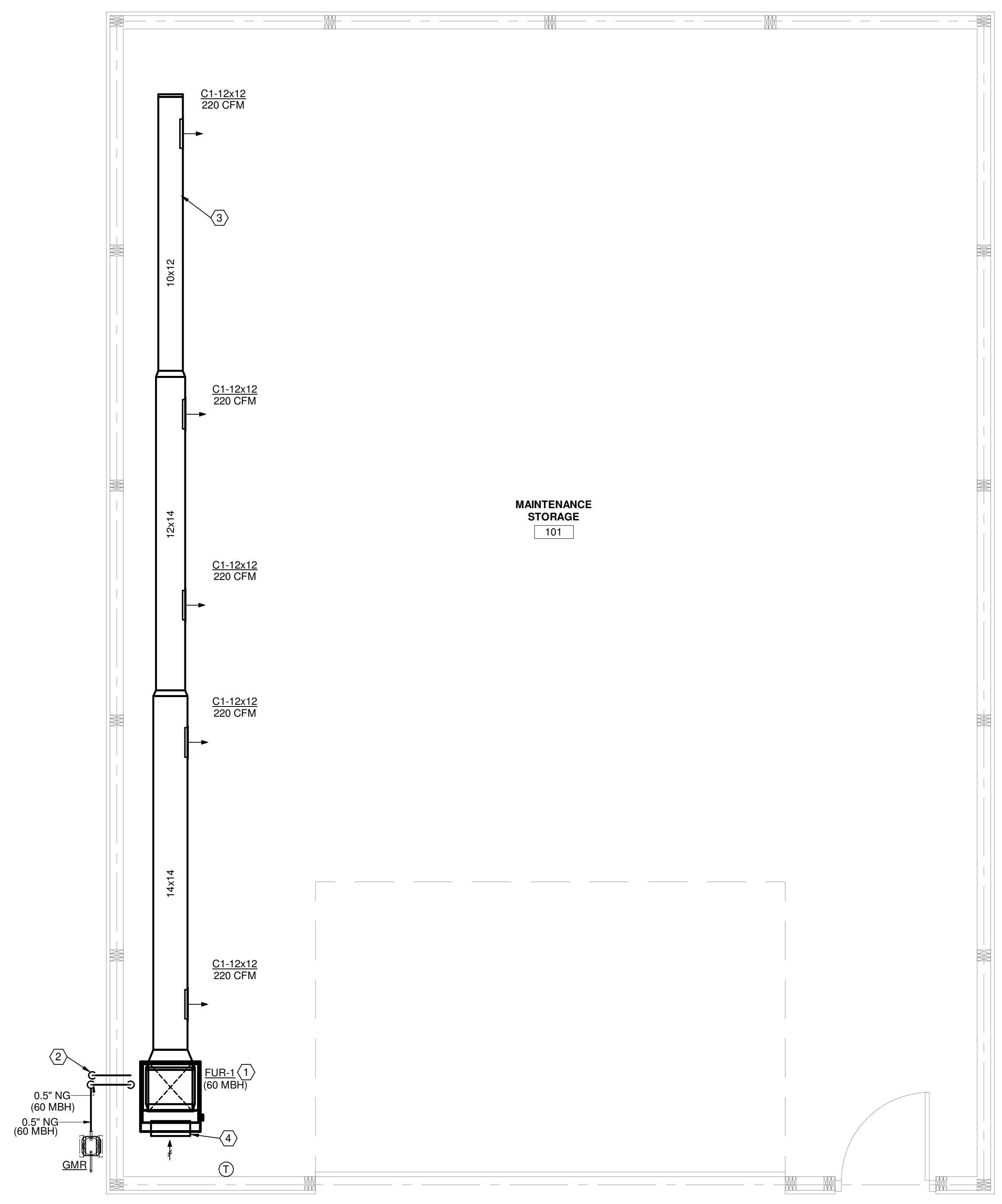
GAS PIPE SIZING

PIPE SIZE (BLACK STEEL)	MAX MBH
0.5"	118
0.75"	247
1"	466
1.25"	957
1.5"	1,430
2"	2,760

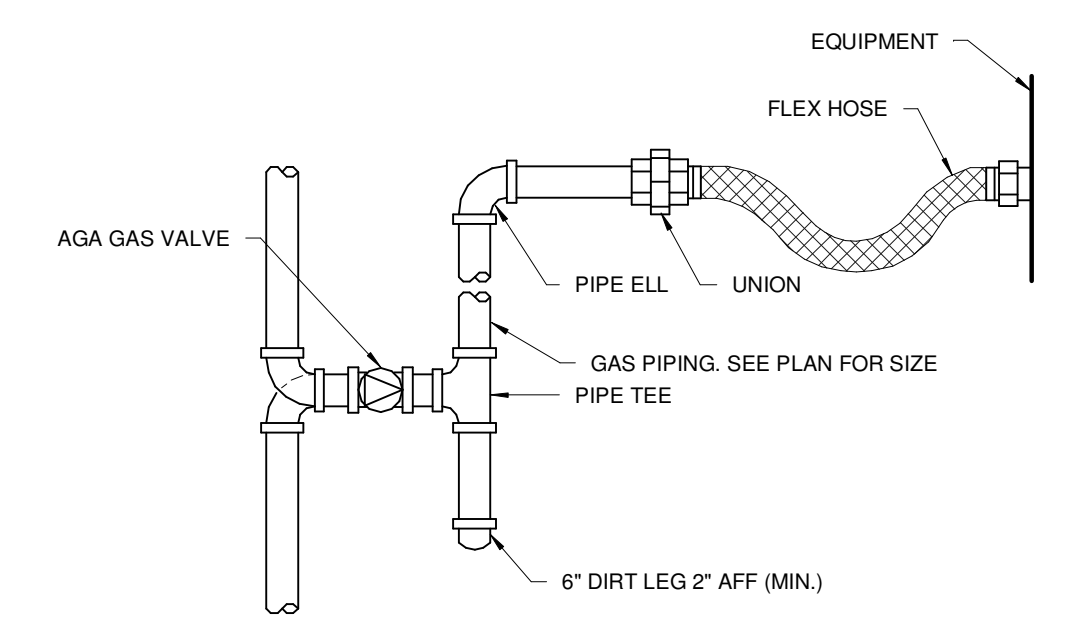
GENERAL NOTES:
1. SIZING BASED ON LESS THAN 2 PSIG PRESSURE. 0.5 PSIG DROP PER TABLE 402.4(2) OF IFGC
2. TOTAL DEVELOPED LENGTH = 20 FT.

NATURAL VENTILATION NOTE

WAREHOUSE SPACE COMPLIES WITH NATURAL VENTILATION. SPACE AREA EQUAL TO 1,100 SF WHICH REQUIRES 44 SF OF OPERABLE AREA. AVAILABLE OPERABLE AREA EQUALS 192 SF WHICH EXCEEDS MINIMUM REQUIRED OPERABLE AREA.



① MECH FLOOR PLAN
3/8" = 1'-0"



② GAS EQUIPMENT CONNECTION
NTS

Project Number	2024026
Date	February 27, 2026
Date	02.27.26
Issue	Bid/Construction Set
Sheet Title	MECH FLOOR PLAN

Sheet Number
M1.0

GENERAL LIGHTING/POWER NOTES

- LIGHT FIXTURES DESIGNATED AS "NIGHT LIGHTS" SHALL BE ON UNSWITCHED CIRCUIT, UNLESS NOTED.
- EXIT LIGHTS SHALL BE ON UNSWITCHED CIRCUIT, UNLESS NOTED.
- ALL RECESSED DOWNLIGHTS MOUNTED IN GRID CEILING SHALL BE CENTERED IN CEILING TILE, UNLESS NOTED.
- IN ALL MECHANICAL ROOMS, COORDINATE EXACT LOCATION OF LIGHT FIXTURES WITH HVAC DUCTWORK.
- CONDUCTORS FOR BRANCH CIRCUITRY ARE #12 AWG MINIMUM, UNLESS NOTED. DERATE PER CODE WHERE CIRCUITS ARE COMBINED.
- ALL HOMERUN CONDUCTORS BACK TO PANEL SHALL BE #10 AWG MINIMUM, UNLESS NOTED. PROVIDE A GREEN GROUND CONDUCTOR IN ALL BRANCH CIRCUITRY. DERATE PER CODE WHERE CIRCUITS ARE COMBINED.
- ALL CONDUIT DROPS FOR PLENUM RATED CABLES SHALL BE PROVIDED WITH A CONDUIT BUSHING ABOVE CEILING.
- WHERE TERMINATED IN J-BOX, ALL SPARE CIRCUITRY SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBER.
- COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE ALL NECESSARY AUXILIARY CONTACTS, RELAY, ETC. IN MOTOR STARTERS FOR REQUIRED CONTROL OF MECHANICAL EQUIPMENT.
- DO NOT SUPPORT CONDUIT OFF OF CEILING GRID, CEILING GRID SUPPORTS, MECHANICAL SUPPORTS, OR ANY OTHER TRADE'S SUPPORTS. INSTALL CONDUITS AND BOXES ON SEPARATE SUPPORTS FROM BAR JOIST OR STRUCTURE.
- COORDINATE OUTLET LOCATIONS FOR ALL KITCHEN AND BAR EQUIPMENT PRIOR TO ROUGH-IN.
- NEW FIRE ALARM DEVICES SHOWN FOR REFERENCE ONLY. FINAL DESIGN AND PERMIT DRAWINGS TO BE PROVIDED BY FIRE ALARM MANUFACTURERS THROUGH A DELEGATED DESIGN APPROACH. ANNUNCIATING STROBES SHALL BE SYNCHRONIZED. PROVIDE ADEQUATE POWER FOR NEW PANELS TO SUPPORT ALL NEW DEVICES PROVIDING ADDITIONAL 20% CAPACITY ON NAC CIRCUIT.

ABBREVIATIONS

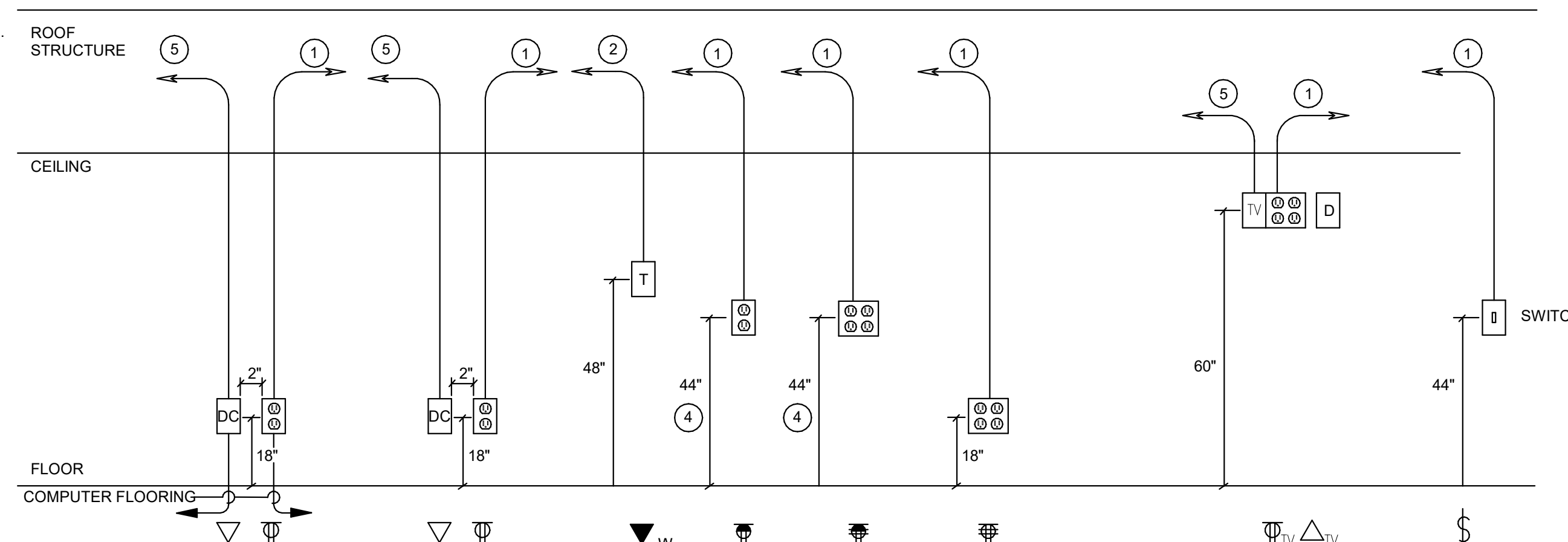
A	AMPS
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BKR	BREAKER
C	CONDUIT
CATV	CABLE TELEVISION
CUH	CABINET UNIT HEATER
CKT	CIRCUIT
Cu	COPPER
E	EXISTING
EF	EXHAUST FAN
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	EMERGENCY METALLIC TUBING
FCU	FAN COIL UNIT
G	GROUND
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID CONDUIT
HP	HORSEPOWER
J	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATTS
LGTG	LIGHTING
MECH	MECHANICAL
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
PVC	POLYVINYL CHLORIDE
P	PHASE (POLE)
TTB	TELEPHONE TERMINAL BOX
TYP	TYPICAL
UNON	UNLESS OTHERWISE NOTED
UV	UNIT VENTILATOR
V	VOLTS
VAV	VARIABLE AIR VOLUME
VIF	VERIFY IN FIELD
W	WATTS
WC	WATER COOLER
WP	WEATHERPROOF
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE

DETAIL NOTES:

- 120V RECEPTACLE BRANCH CIRCUIT. REFER TO POWER PLANS
- 3/4" CONDUIT WITH CABLES TO CABLETRAY/DATA/COMM. BACKBOARD.
- SWITCH LEG.
- OR 4" ABOVE BACKSPLASH
- STUB 1" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE BUSHING

LEGEND

DC	DATA/COMMUNICATIONS OUTLET
T	TELEPHONE OUTLET
TV	AV BOX
⊙	120V POWER OUTLET
⊞	SWITCH
⊙⊙	DOUBLE DUPLEX 120V POWER OUTLET



① TYPICAL DEVICE ELEVATION DETAILS
NTS

GENERAL PROJECT NOTES

- WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL, STATE OF OHIO, 2023 NEC AND NATIONAL CODES, RECOMMENDATIONS, REGULATIONS, AND REQUIREMENTS.
- COORDINATE ELECTRICAL REQUIREMENTS FOR NEW WORK WITH THE PLUMBING AND MECHANICAL CONTRACTORS. VERIFY VOLTAGE, PHASE AND ACCESSORY REQUIREMENTS, SUCH AS MOTOR STARTERS AND DISCONNECTS.
- CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING AS REQUIRED FOR HIS WORK. OPENING IN WALLS, FLOORS AND CEILINGS SHALL BE FILLED IN, PATCHED, PAINTED AND FINISHED IN A MANNER TO MATCH THE QUALITY OF THE EXISTING, LIKE ADJACENT SURFACES.
- NEW OPENINGS IN EXISTING WALLS AND FLOORS SHALL BE CORE DRILLED OR SAW CUT. OPENINGS IN NEW WALLS AND FLOORS SHALL BE PLANNED AND COORDINATED WITH GENERAL CONTRACTOR FOR THE INSTALLATION OF APPROPRIATE SLEEVES.
- ALL CONDUIT SHALL BE 3/4" MINIMUM U.N.O. MC CABLE IS ALLOWED.
- CONDUIT SHALL BE CONCEALED IN CEILING OR WALLS WHEREVER POSSIBLE.
- ALL BRANCH CIRCUITS AND FEEDERS SHALL CONTAIN A GREEN INSULATED GROUND CONDUCTOR. GROUNDING BY MEANS OF RACEWAY IS NOT PERMITTED.
- REFER TO MECHANICAL, PLUMBING, AND ARCHITECTURAL PLANS FOR EXACT LOCATION OF EQUIPMENT.
- CONTRACTOR SHALL COORDINATE EXACT HEIGHT OF DEVICES DESIGNED AS OVER COUNTER WITH CASE WORK AND FURNITURE DRAWINGS.
- VERIFY CEILING TYPES PER THE ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE APPROPRIATE TYPE FIXTURE, LAY-IN FOR GRID, FLANGE FOR DRYWALL, ETC.
- VERIFY AND COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF ALL DEVICES MOUNTED IN CASEWORK OR ABOVE COUNTERS WITH SPECIFIC EQUIPMENT FURNISHED.
- NO MORE THAN 3 PHASE CONDUCTORS SHALL BE INSTALLED IN ANY ONE CIRCUIT, UNLESS NOTED OTHERWISE. EACH BRANCH CIRCUIT SHALL CONTAIN THEIR OWN NEUTRAL CONDUCTOR. NO SHARED NEUTRALS.
- CONTRACTOR SHALL PROVIDE ALL FIRESTOPPING FOR CONDUIT OR CABLE TRAY PENETRATIONS THAT PENETRATE ACOUSTICAL RATED OR SMOKE AND FIRE RATED ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL RATED ASSEMBLIES. ALL RATED PENETRATIONS SHALL BE FIRESTOPPED TO ORIGINAL ASSEMBLY RATING. ALL NON-RATED FLOOR PENETRATIONS SHALL BE SEALED WATER TIGHT WITH A FLEXIBLE SEALANT.
- PROVIDE ALL PULL BOXES, IN ACCESSIBLE AREA, THAT EXCEED NEC NUMBER OF BENDS OR LENGTH IN FEEDER AND BRANCH CIRCUITS. INSTALL BOXES WHERE REQUIRED PER CODE.
- ALL WIRING DEVICES SHALL BE OF HEAVY DUTY COMMERCIAL GRADE CONSTRUCTION. REFER TO ARCHITECTURAL SHEETS AND CODE SHEET FOR ALL FIRE-RATED PARTITION LOCATIONS AND RATINGS. COORDINATE COLORS WITH ARCHITECT.
- CONTRACTOR IS RESPONSIBLE FOR ALL CORE-DRILLS REQUIRED FOR INSTALLATION OF ELECTRICAL WORK.
- ROUTING OF CIRCUITRY INSTALLED IN CASEWORK, CABINETRIES, ETC. SHALL BE COORDINATED FOR PROPER CONCEALMENT AND FUNCTION OF CASEWORK, CABINETRIES, ETC.
- VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION, TRENCHING, OR DRILLING.
- ALL ROOF PENETRATIONS OR PATCHES SHALL BE MADE PER ROOFING MANUFACTURER WARRANTY REQUIREMENTS.
- ALL EXPOSED METAL CONDUITS ARE TO BE PAINTED TO MATCH THE ADJACENT SURFACE. COORDINATION OF PAINTING OF CONDUIT IS TO BE BY THE ELECTRICAL CONTRACTOR, WITH PAINTING BY OTHERS.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED JUNCTION BOXES, PULL BOXES, ETC FOR A COMPLETE INSTALLATION PER THE N.E.C. AND LOCAL CODES. ALL CONDUCTORS SHALL BE RATED FOR 90 DEGREE CELSIUS.
- COORDINATE WORK WITH OTHER TRADES. COORDINATION OR SCHEDULING SHALL BE RESPONSIBILITY OF THE INVOLVED CONTRACTORS.
- ALL LOW VOLTAGE CABLING INSTALLED IN SPACES WITHOUT A LAY-IN OR WITH A HARD CEILING SHALL BE INSTALLED IN CONDUIT AND BOXES.

ELECTRICAL LEGEND

LIGHTING

A1	○	LIGHTING FIXTURE. REFER TO FIXTURE SCHEDULE. LETTER INDICATES TYPE.
A1	⬛ NL	EMERGENCY LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP. "NL" INDICATES NIGHT LIGHT CIRCUIT. REFER TO FIXTURE SCHEDULE FOR BATTERY REQUIREMENTS.
C1	○	LIGHTING FIXTURE. LETTER INDICATES TYPE.
C1	●	EMERGENCY LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP.
X1	⊙	CEILING MOUNTED EXIT SIGN. REFER TO FIXTURE SCHEDULE. SHADED AREA DENOTES FACE(S) OF UNIT. CONNECT TO LOCAL UNSWITCHED LIGHTING CIRCUIT.
X1	⊙	WALL MOUNTED EXIT SIGN. REFER TO FIXTURE SCHEDULE. SHADED AREA DENOTES FACE(S) OF UNIT. CONNECT TO LOCAL UNSWITCHED LIGHTING CIRCUIT.
EM	⊙	EMERGENCY EGRESS LIGHT. REFER TO FIXTURE SCHEDULE.
⊙	⊙	CEILING MOUNTED OCCUPANCY SENSOR.
⊙	⊙	SINGLE POLE WALL SWITCH. 120/277 VOLT, 20 AMP. 44" AFF.
⊙	⊙	THREE WAY WALL SWITCH. 120/277V, 20 AMP. 44" AFF
⊙	⊙	FOUR WAY WALL SWITCH. 120/277V, 20 AMP. 44" AFF
OC	⊙	OCCUPANCY SENSOR WALL SWITCH. 120/277V, 20 AMP. 44" AFF
DOC	⊙	OCCUPANCY SENSOR WALL SWITCH WITH 0-10V DIMMING. 120/277V, 20 AMP. 44" AFF
P	⊙	SINGLE POLE WALL SWITCH WITH PILOT LIGHT. 120/277V, 20 AMP. 44" AFF
⊙	⊙	EXTERIOR LIGHT FIXTURE. ER, EXISTING TO REMAIN, PL1 - NEW FIXTURE. REFER TO FIXTURE SCHEDULE.

POWER

⊙	⊙	DUPLEX RECEPTACLE. 120 VOLT, 20 AMP. 18" AFF UNO.
⊙	⊙	DUPLEX RECEPTACLE WITH USB PLUG. 120 VOLT, 20 AMP. 18" AFF UNO.
⊙	⊙	DUPLEX RECEPTACLE MOUNTED AT 46" OR ABOVE BACKSPLASH. 120 VOLT, 20 AMP.
⊙	⊙	DOUBLE DUPLEX RECEPTACLE. 120 VOLT, 20 AMP. 18" AFF UNO.
⊙	⊙	120 VOLT DOUBLE DUPLEX, 20 AMP RECEPTACLE MOUNTED AT 46" AFF OR 4" ABOVE BACKSPLASH.
⊙	⊙	DUPLEX RECEPTACLE WITH GROUND FAULT PROTECTION. 120 VOLT, 20 AMP. 18" AFF UNO, WP-WEATHERPROOF BOX
⊙	⊙	FLUSH FLOOR DUPLEX RECEPTACLE IN FLOOR BOX
⊙	⊙	120 VOLT SINGLE 20 AMP RECEPTACLE.
⊙	⊙	DUPLEX RECEPTACLE. CEILING MOUNTED
⊙	⊙	SPECIAL PURPOSE RECEPTACLE. REFER TO FLOOR PLANS FOR NEMA CONFIGURATION.
⊙	⊙	FRACTIONAL HP MOTOR STARTER WITH THERMAL OVERLOADS.
⊙	⊙	ELECTRICAL MOTOR.
⊙	⊙	HOMERUN TO PANELBOARD. NOTION INDICATES PANEL AND CIRCUIT NUMBER. (ALL CONDUCTORS SHALL BE #10 UNLESS NOTED OTHERWISE.)
⊙	⊙	ELECTRICAL PANELBOARD.
⊙	⊙	JUNCTION BOX.
⊙	⊙	CONDUIT STUB-OUT AND CAP BELOW GRADE. MARK STUB-OUT AT GRADE LEVEL.
⊙	⊙	UNDERGROUND HIGH VOLTAGE OR SECONDARY SERVICE FEED.
⊙	⊙	SAFETY DISCONNECT SWITCH (NON-FUSED). 4X INDICATES ENCLOSURE TYPE.
⊙	⊙	SAFETY DISCONNECT SWITCH (FUSED).
⊙	⊙	COMBINATOR MOTOR STARTER/DISCONNECT. WITH HOA SWITCH AT UNIT (FUSIBLE), OR (CIRCUIT BREAKER FOR ELEVATOR).
⊙	⊙	TRANSFORMER (NUMBER INDICATES WHICH TRANSFORMER).
⊙	⊙	HAND DRYER. VERIFY MOUNTING WITH SUPPLIER

GENERAL

⊙	⊙	DETAIL # _____ DETAIL REFERENCE TAG, DRAWING # REFER TO DETAIL SHEETS
⊙	⊙	KEYNOTE FOR DRAWING
⊙	⊙	DETAIL REFERENCE TAG (SECTION)
EF-1	⊙	MECHANICAL EQUIPMENT TAG. REFER TO EQUIPMENT DATA SCHEDULE.
⊙	⊙	INDICATES NEW WORK.
⊙	⊙	INDICATES TO BE REMOVED.
⊙	⊙	INDICATES EXISTING TO REMAIN.

ELECTRICAL INDEX OF DRAWINGS

SHEET NUMBER	SHEET NAME
E0.1	ELECTRICAL LEGEND AND GENERAL NOTES
E0.2	ELECTRICAL SPECIFICATIONS
E1.1	POWER AND LIGHTING PLAN
E4.1	PANELBOARD SCHEDULES AND SINGLE LINE DIAGRAM



RDA GROUP ARCHITECTS
7662 PARAGON ROAD | DAYTON, OH 45459 | 937.610.3440



Accessory Storage Building:
Mount Crest Court

700 Mount Crest Court
Dayton, Ohio 45403

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Sheet Title
ELECTRICAL LEGEND AND GENERAL NOTES

Sheet Number
E0.1



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ELECTRICAL SPECIFICATIONS

GENERAL PROVISIONS

A. REFERENCE

1. THE GENERAL CONDITIONS AND OTHER CONTRACT DRAWINGS AS SET FORTH IN THE FOREGOING PAGES ARE HEREBY INCORPORATED INTO AND BECOME A PART OF THE SPECIFICATIONS FOR WORK UNDER THIS PROJECT, INsofar AS THEY APPLY HERETO.
2. ALL SPECIFICATIONS UNDER THIS DIVISION TITLE ARE DIRECTED TO AND ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, UNLESS OTHER TRADES OR PERSONS ARE SPECIFICALLY MENTIONED, "ELECTRICAL CONTRACTOR" IS INFERRED AND INTENDED.

B. CONTRACT DRAWINGS

1. THE DRAWINGS ACCOMPANYING THESE SPECIFICATIONS ARE COMPLEMENTARY EACH TO THE OTHER AND WHAT IS CALLED FOR BY ONE SHALL BE AS IF CALLED FOR BY BOTH.
2. CONSULT ALL CONTRACT DRAWINGS WHICH MAY AFFECT THE LOCATION OF EQUIPMENT, CONDUIT AND WIRING AND MAKE MINOR ADJUSTMENTS IN LOCATION TO SECURE COORDINATION.
3. WIRING LAYOUT IS SCHEMATIC AND EXACT LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS.
4. OTHER THAN MINOR ADJUSTMENTS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE PROCEEDING WITH THE WORK.

C. JOB-SITE COPY OF DOCUMENTS

1. MAINTAIN AT THE SITE, ONE COPY OF ALL DRAWINGS, SPECIFICATIONS, ADDENDA APPROVED SHOP DRAWINGS, CHANGE ORDERS AND OTHER MODIFICATIONS, IN GOOD ORDER AND MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION. THESE SHALL BE AVAILABLE TO THE OWNER'S REPRESENTATIVE. THE DRAWINGS MARKED TO RECORD ALL CHANGES MADE DURING CONSTRUCTION SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE FOR THE OWNER UPON COMPLETION OF THE WORK. AN ADDITIONAL SET OF DRAWINGS WILL BE FURNISHED BY THE OWNER'S REPRESENTATIVE FOR THIS PURPOSE UPON REQUEST.

D. MANUFACTURER'S DRAWINGS

1. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR REVIEW, (4) COPIES OF MANUFACTURER'S DRAWINGS AND WIRING DIAGRAMS (OR ELECTRONIC SUBMITTALS IN PDF FORMAT), THE ENGINEER WILL REVIEW CONTRACTOR'S SHOP DRAWINGS AND RELATED SUBMITTALS (AS INDICATED BELOW) WITH RESPECT TO THE ABILITY OF THE DETAILED WORK, WHEN COMPLETE, TO BE A PROPERLY FUNCTIONING INTEGRAL ELEMENT OF THE OVERALL SYSTEM DESIGNED BY THE ENGINEER. BEFORE SUBMITTING A SHOP DRAWING OR ANY RELATED MATERIAL TO THE ENGINEER, CONTRACTOR SHALL 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 CONTRACTOR. APPROVE EACH SUCH SUBMISSION BEFORE SUBMITTING IT, AND SO STAMP EACH SUCH SUBMISSION BEFORE SUBMITTING IT. THE ENGINEER SHALL ASSUME THAT NO SHOP DRAWING OR RELATED SUBMITTAL COMPRISES A VARIATION UNLESS CONTRACTOR ADVISES ENGINEER OTHERWISE VIA A WRITTEN INSTRUMENT WHICH IS ACKNOWLEDGED BY ENGINEER IN WRITING. THE ITEMS, TYPES OF SUBMITTALS AND RELATED MATERIAL (IF ANY) CALLED FOR ARE INDICATED BELOW:

ITEMS SHOP DRAWINGS TYPE SUBMITTALS REQUIRED

LIGHTING FIXTURES
WIRING DEVICES
LIGHTING CONTROLS

E. GUARANTEES

1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFECTS, REPAIRS AND REPLACEMENTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF SUBSTANTIAL COMPLETION AS DETERMINED BY THE OWNER'S REPRESENTATIVE. PRODUCT GUARANTEES GREATER THAN ONE (1) YEAR SHALL BE PASSED ALONG TO THE OWNER FOR FULL BENEFIT OF THE MANUFACTURER'S WARRANTY.

WORK INCLUDED

A. INSTALLATION, MATERIALS, AND WORKMANSHIP

6. FURNISH AND INSTALL ALL NECESSARY ANCHORS, SUPPORTS, STRAPS, BOXES, FITTINGS AND OTHER SIMILAR APPURTENANCES NOT INDICATED ON THE DRAWINGS BUT WHICH ARE REQUIRED FOR A COMPLETE AND PROPERLY INSTALLED SYSTEM CONSISTENT WITH THE ARCHITECTURAL TREATMENT OF THE BUILDING.
7. THE ELECTRICAL CONTRACTOR, INsofar AS THE WORK IS CONCERNED, SHALL AT ALL TIMES KEEP THE PREMISES IN A NEAT AND ORDERLY CONDITION, AND AT THE COMPLETION OF THE WORK, SHALL PROPERLY CLEAN UP AND CART AWAY DEBRIS AND EXCESS MATERIALS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF DUMPSTER & REFUSE DISPOSAL AS REQUIRED FOR ELECTRICAL WORK.
8. ALL MATERIALS SHALL BE NEW AND UNDETERIORATED AND OF A QUALITY NOT LESS THAN THE MINIMUM SPECIFIED.

B. COORDINATION OF PLANS AND SPECIFICATIONS

1. CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY IF THERE IS ANY QUESTIONS REGARDING THE MEANING OR INTENT OF EITHER PLANS OR SPECIFICATIONS, OR UPON NOTICING ANY DISCREPANCIES OR OMISSIONS IN EITHER PLANS OR SPECIFICATIONS.

C. CUTTING AND PATCHING

1. PATCHING SHALL MATCH EXISTING SURFACES IN KIND AND FINISH AND SHALL BE DONE BY THE GENERAL CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE.
2. REPAIR OF DAMAGES, BY THE ELECTRICAL CONTRACTOR, TO NEWLY PATCHED AND REFINISHED AREAS SHALL BE DONE BY THE GENERAL CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE, TO MATCH EXISTING CONDITION.
3. WHERE REQUIRED TO MAINTAIN FIRE RATING, OPENINGS SHALL BE SEALED UTILIZING 3M BRAND FIRE BARRIER PENETRATION SEALING SYSTEMS; FIRE BARRIER OR FIRE STOP SYSTEMS FROM CROUSE-HINDS, THOMAS & BETTS OR DOW CORNING MAY BE USED AT CONTRACTOR'S OPTION. THIS INCLUDES HOLES LEFT DUE TO REMOVAL OF EXISTING CONDUITS, BUS DUCT, ETC. OPENINGS SHALL BE TEMPORARILY FIRE STOPPED UNTIL PERMANENT FIRE STOPPING IS DONE.

D. CLEANING AND PAINTING

1. ALL ELECTRICAL EQUIPMENT SHALL BE KEPT DRY AND CLEAN DURING THE CONSTRUCTION PERIOD. INTERIOR OF ALL ENCLOSURES SHALL BE CLEANED OF DIRT AND DEBRIS BEFORE INSTALLING TRIM OR COVERS.
2. ALL FINISHED SURFACES OF EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE THOROUGHLY CLEANED OF DIRT AND ALL SCRATCHED OR DAMAGED SURFACES SHALL BE TOUCHED UP WITH MATCHING MATERIALS BEFORE FINAL ACCEPTANCE OF THE WORK.
3. WHEN ALL WORK IS COMPLETED AND ALL WORK HAS BEEN SATISFACTORILY TESTED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE, ALL CONDUIT AND OTHER EXPOSED SURFACES SHALL BE THOROUGHLY CLEANED.

CODES AND FEES

A. CODES:

1. ALL WORK PERFORMED UNDER THIS SPECIFICATION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AS PREPARED AND PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION AND ANY APPLICABLE STATE OR LOCAL CODES.

B. FEES:

1. OBTAIN AND PAY FOR ANY AND ALL PERMITS REQUIRED BY ALL LAWS AND REGULATIONS AND PUBLIC AUTHORITY HAVING SUCH JURISDICTION.

TESTS AND SPECIFICATIONS

- A. OBTAIN ALL INSPECTIONS REQUIRED BY ALL LAWS, ORDINANCES, RULES, REGULATIONS OR PUBLIC AUTHORITY HAVING JURISDICTION AND OBTAIN CERTIFICATES OF SUCH INSPECTIONS AND SUBMIT SAME TO THE OWNER'S REPRESENTATIVE. PAY ALL FEES, CHARGES AND OTHER EXPENSES IN CONNECTION THEREIN. OBTAIN OCCUPANCY PERMIT AS REQUIRED BY OWNER. FINAL PAYMENT SHALL NOT BE MADE UNTIL OCCUPANCY PERMIT IS OBTAINED.
- B. WORK SHALL BE UNACCEPTABLE WHEN FOUND TO BE DEFECTIVE OR CONTRARY TO THE PLANS SPECIFICATIONS, CODES SPECIFIED OR ACCEPTED STANDARDS OF GOOD WORKMANSHIP.
- C. THE CONTRACTOR SHALL PROMPTLY CORRECT ALL WORK FOUND UNACCEPTABLE BY THE OWNER'S REPRESENTATIVE WHETHER OBSERVED BEFORE OR AFTER SUBSTANTIAL COMPLETION AND WHETHER OR NOT FABRICATED, INSTALLED OR COMPLETED. THE CONTRACTOR SHALL BEAR ALL COSTS OF CORRECTING SUCH UNACCEPTABLE WORK, INCLUDING COMPENSATION FOR THE OWNERS REPRESENTATIVE ADDITIONAL SERVICES MADE NECESSARY THEREBY.
- D. THE ELECTRICAL CONTRACTOR SHALL TEST AND OBTAIN ACCEPTANCE FOR THE FOLLOWING SYSTEMS:
 1. EMERGENCY LIGHTING.
 2. RECEPTACLE AND EQUIPMENT POWER.
 3. LIGHTING.
 4. LIGHTING CONTROLS

CONDUIT

- A. FURNISH AND INSTALL ALL CONDUITS, BOXES, FITTINGS, ETC., FOR A COMPLETE RACEWAY SYSTEM.
- B. ALL WIRING SHALL BE RUN IN EMT CONDUIT OR MC CABLE UNLESS OTHERWISE NOTED.
- C. ALL CONDUIT SIZES STATED HEREIN OR MARKED ON THE DRAWINGS ARE MINIMUM SIZE AND SHALL BE NO LESS THAN 1/2" UNLESS OTHERWISE NOTED.
- D. ALL CONDUIT SHALL BE SUBSTANTIALLY SUPPORTED BY PIPE STRAPS OR SUITABLE CLAMPS OR HANGERS ATTACHED TO THE ELEMENTS OF THE BUILDING STRUCTURE TO PROVIDE RIGID INSTALLATION; IN NO CASE SHALL CONDUIT BE ATTACHED OR SUPPORTED FROM ADJOINING PIPE OR INSTALLED IN SUCH A MANNER AS TO PREVENT THE READY REMOVAL OF OTHER PIPE FOR REPAIRS. "MINERALAC" TYPE SUPPORTS AND "UNISTRUT" TYPE ONE BOLT SUPPORTS WITH SQUARE ENDS SHALL NOT BE USED AT ANY LOCATION.

WIRE AND CABLE

- A. ALL CONDUCTORS SHALL BE STRANDED AND OF THE AWG SIZE AND TYPE SHOWN ON THE DRAWINGS. WHERE NO SIZE OR TYPE IS SHOWN, CONDUCTORS SHALL NOT BE LESS THAN #12 TYPE XHHW, THHN, OR THWN. ALL CONDUCTORS SHALL BE COPPER AND HAVE 600 VOLT INSULATION; BE UL LABELED AND OF AMERICAN MANUFACTURER.
- B. ALL CONNECTIONS ARE TO BE MADE USING PRESSURE TYPE TERMINALS.
- C. THE FOLLOWING COLOR CODE SHALL BE USED:

208 VOLT

PHASE A BLACK
PHASE B RED
PHASE C BLUE
NEUTRAL WHITE
EQUIPMENT GROUND GREEN

- D. CONDUCTORS NO. 10 AWG OR SMALLER SHALL HAVE INSULATION COLORED AS NOTED ABOVE.
- E. CONDUCTORS NO. 8 AWG OR LARGER SHALL HAVE INSULATION COLORED AS NOTED ABOVE OR COLORED TAPE, MINIMUM SIZE 1/2", WRAPPED TWICE AROUND AT THE FOLLOWING POINTS:
 1. AT EACH TERMINAL.
 2. AT EACH CONDUIT ENTRANCE.
 3. AT INTERVALS NOT MORE THAN 12 INCHES APART.
 4. IN ALL BOXES, PANEL TUBS, SWITCHBOARDS, ETC.

- F. ALL BRANCH CIRCUITS SHALL BE MARKED IN THE PANELBOARD GUTTERS. MARKERS SHALL INDICATE CORRESPONDING BRANCH-CIRCUIT NUMBERS.
- G. EACH BRANCH CIRCUIT REQUIRING A NEUTRAL SHALL BE FURNISHED WITH A SEPARATE INDIVIDUAL NEUTRAL CONDUCTOR.

BOXES AND PLATES

- A. FURNISH AND INSTALL ALL OUTLET, JUNCTION, AND PULLBOXES AS INDICATED ON THE DRAWINGS AND AS NECESSARY TO INSTALL THE REQUIRED CONDUIT AND WIRING IN A NEAT AND WORKMANLIKE MANNER.
- B. PULLBOXES AND JUNCTION BOXES SHALL BE GALVANIZED AND OF THE CORRECT SIZE AND SIZE AND GAUGE, IN ACCORDANCE WITH CODE REQUIREMENTS AND SHALL BE UL LABELED.
- C. FLUSH OUTLET, JUNCTION AND PULLBOXES SHALL BE PRESSED STEEL GALVANIZED OR SHERARDIZED AND SHALL BE A MINIMUM OF 4" SQUARE OR OCTAGONAL SIMILAR TO APPLETON #40.
- D. SWITCH PLATES ON FLUSH AND CAST BOXES SHALL BE SIERRA NOS. P-1, P-2, P-3 ETC., AS REQUIRED, AND SHALL BE MADE OF IVORY PLASTIC.
- E. DUPLEX RECEPTACLE PLATES ON FLUSH AND CAST BOXES SHALL BE SIERRA NO. P-8 IVORY PLASTIC.
- F. ALL BOXES SHALL BE RIGIDLY SUPPORTED FROM BUILDING STRUCTURE INDEPENDENT OF THE CONDUIT SYSTEM. BOXES CAST INTO MASONRY OR CONCRETE ARE CONSIDERED TO BE RIGIDLY SUPPORTED.

WIRING DEVICES

- A. WIRING DEVICES SHALL BE FURNISHED IN STRICT ACCORDANCE WITH THE CATALOG NUMBERS AND MANUFACTURERS LISTED IN THE SCHEDULE WHICH FOLLOWS. OTHER SPECIAL PURPOSE DEVICES SHALL BE AS SPECIFIED ON THE DRAWINGS.
- B. COORDINATE DEVICE COLOR WITH ARCHITECT.

IDENTIFICATION

- H. EACH PIECE OF ELECTRICAL EQUIPMENT AND INDIVIDUAL SWITCHES, ALL DISCONNECTS, STARTERS ALL EXHAUST FAN MANUAL STARTING SWITCHES, ALL POWER AND LIGHTING PANELS, ALL CABINETS AND PULL BOXES, ETC., SHALL BE IDENTIFIED ON THE FRONT COVER OR TRIM WITH ITS NAME AND/OR DESIGNATION NUMBER OR LETTER AS SHOWN ON THE DRAWINGS AND WITH THE VOLTAGE AVAILABLE WITHIN THE PANEL.
- I. IDENTIFICATION SHALL BE IN THE FORM OF LAMINATED PLASTIC NAMEPLATES, BLACK FACE, WITH THE LETTERS ENGRAVED INTO THE WHITE BACKGROUND, MINIMUM 1/4" HIGH. PLATES SHALL BE DRILLED ON EACH END FOR SHEETMETAL SCREW ATTACHMENT, NO "DYMO" OR SIMILAR TYPE LABELS WILL BE ALLOWED.
- J. THE FOLLOWING IS AN EXAMPLE OF THE NAMEPLATE LAYOUT AND WORDING:

AC-1 DISCONNECT
208V - 1- CKT B-1,2
- K. PLASTIC NAMEPLATES SHALL BE ATTACHED TO FACE OF ELECTRICAL DEVICE BY SHEETMETAL SCREWS. LOCATE PLATE SO WORDING READS HORIZONTALLY AND PLATE DOES NOT OBSTRUCT OTHER IDENTIFICATION PLATES, LATCHES OR OPERATORS.
- L. WHERE CIRCUIT BREAKERS OR FUSES ARE APPLIED IN COMPLIANCE WITH THE SERIES COMBINATION RATINGS MARKED ON THE EQUIPMENT BY THE MANUFACTURER, THE EQUIPMENT ENCLOSURE(S) SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE THE EQUIPMENT HAS BEEN APPLIED WITH A SERIES COMBINATION RATING. THE MARKING SHALL BE READILY VISIBLE AND STATE "CAUTION - SERIES RATED SYSTEM."

GROUNDING

- A. ALL FEEDERS AND BRANCH CIRCUITS OVER 100 VOLTS SHALL INCLUDE A GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 250.122, EXCEPT NOT BE SMALLER THAN #12 FOR POWER AND LIGHTING CIRCUITS AND #14 FOR CONTROL CIRCUITS. ALL GROUND CONDUCTORS SHALL BE GREEN, OR AS SPECIFIED UNDER SECTION "WIRE AND CABLE."
- B. ALL GROUND CLAMPS SHALL BE PENN-UNION "GPL" TYPE OR SIMILAR BY O.Z. OR BURNDY.
- C. CONDUIT FOR SOLITARY GROUND CONDUCTORS SHALL BE RIGID SCHEDULE 40 PVC NON-METALLIC ELECTRICAL CONDUIT WITH UL LABEL. SOLITARY GROUND CONDUCTORS SHALL NOT BE PLACED THROUGH METALLIC SLEEVES OR CONDUITS AND SHALL NOT BE COMPLETELY ENCIRCLED BY METALLIC HANGERS OR SUPPORTS.
- D. THE GROUND CONDUCTOR SHALL BE CONNECTED TO THE NEUTRAL IN ONLY TWO LOCATIONS - ON THE SUPPLY SIDE OF THE SERVICE DISCONNECT MEANS PER NEC 250.24 AND ON SEPARATELY DERIVED SYSTEMS PER NEC 250.30.
- E. AT EACH RECEPTACLE BOX, THE GROUND CONDUCTOR SHALL ENTER AND CONNECT, WITH NORMAL WIRING CONNECTOR, TO: 1) THE GROUND PIGTAIL TO RECEPTACLE; 2) THE GROUND PIGTAIL TO BOX GROUND SCREW; AND 3) THE OUTGOING GROUND CONDUCTOR TO NEXT DEVICE, IF NOT AT END OF RUN, METAL TO METAL CONTACT BETWEEN THE DEVICE YOKE AND THE OUTLET BOX IS NOT ACCEPTABLE AS A BOND FOR EITHER SURFACE MOUNTED BOXES OR FLUSH TYPE BOXES.
- F. CONDUIT SYSTEM SHALL BE ELECTRICALLY CONTINUOUS. ALL LOCK NUTS SHALL CUT THROUGH ENAMELED OR PAINTED SURFACES ON ENCLOSURES, WHERE ENCLOSURES AND NON-CURRENT CARRYING METALS ARE ISOLATED FROM THE CONDUIT SYSTEM, USE BONDING JUMPERS WITH APPROVED CLAMPS. WHERE REDUCING WASHERS ARE USED AND WHERE CONCENTRIC OR ECCENTRIC KNOCKOUTS ARE NOT COMPLETELY REMOVED BONDING BUSHINGS SHALL BE REQUIRED.

LIGHTING FIXTURES

- A. FLUSH FIXTURES MAY BE FURNISHED WITH PRE-WIRED FEATURE PROVIDED THEY ARE UL APPROVED FOR 75.C WIRING AND THE JUNCTION BOX CAPACITY IS SUFFICIENT FOR THE CIRCUIT WIRING REQUIREMENTS.
- B. CLEARANCES FOR RECESSED PORTIONS OF FIXTURES FROM COMBUSTIBLE MATERIAL AND THERMAL INSULATION, SHALL BE IN ACCORDANCE WITH NEC ARTICLE 410.66.
- C. ANY FIXTURES SCRATCHED, BENT, CRACKED OR IN ANY WAY DAMAGED BEFORE ACCEPTANCE BY OWNER SHALL BE REPLACED AT THIS CONTRACTOR'S EXPENSE.
- D. ALL FIXTURES SHALL BE IN WORKING ORDER AT THE TIME OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER.
- E. ALL LIGHTING FIXTURES ARE TO BE GROUNDED ON THE INTERIOR OF THE FIXTURE HOUSING, ON CLEAN BARE METAL (FREE OF PAINT), BY USE OF A PIGTAIL AND FASTENED BY A SCREW USED FOR NO OTHER PURPOSE.

Project Number

2024026

Date

February 27, 2026

Date

02.27.26 Bid/Construction Set

Sheet Title

ELECTRICAL SPECIFICATIONS

Sheet Number

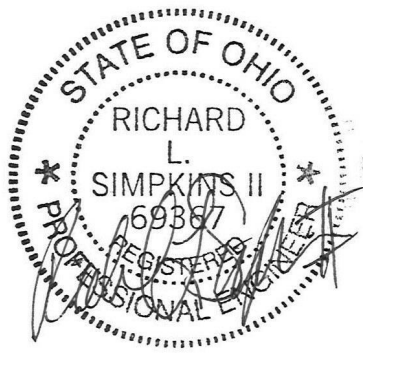
E0.2

LIGHTING FIXTURE SCHEDULE																			
FIXTURE SYMBOL	FIXTURE VOLTAGE	FIXTURE INPUT WATTS	TEMPERATURE (K)	DELIVERED LUMENS	MANUFACTURER AND MODEL NUMBER	OTHER ACCEPTABLE MANUFACTURER	DIFFUSER MEDIA	CLASSIFICATION	TRIM COLOR					MOUNTING	SIZE (IN.)			NOTES	
									WHITE	NICKEL	BLACK	BRUSHED NICKEL	STANDARD		SEE NOTE	DIAMETER OR WIDTH	LENGTH		DEPTH
A1	120	27.5	4000K	3,659	#CPX-2X2-3200LM-40K-M4	AS PRE-APPROVED	POLYCARBONATE	N	X						CS	23.8"	23.8"	1.7"	1
F1	120	26	4000K	4,123	#WPCM-4L-U-40-T3- BLK-SP1	AS PRE-APPROVED	POLYCARBONATE	N		X					WM-11'-0"	18.25"	9.1"	13.75"	2
X1	-	-	-	-	COMPASS #CCR	AS PRE-APPROVED	EMERGENCY EGRESS	EM	X						UNIVERSAL	19.25	8.125	1.75	-
ER	-	-	-	-	COMPASS #CORS	AS PRE-APPROVED	EMERGENCY EGRESS	EM	X						WM-8'-0"	4.5	DIA	6.7	-
	-	-	-	-	COMPASS #CU2	AS PRE-APPROVED	EMERGENCY EGRESS	EM	X						WM-8'-0"	4	9	2.75	-

NOTES:
1. EC TO PROVIDE 2X2SMKSH FOR SYRFACE MOUNTING KIT.
2. EC TO PROVIDE A PHOTOCELL TO CONTROL EXTERIOR LIGHTING. REFER TO SHEET E1.1 FOR FURTHER INFORMATION.

DRAWING NOTES

- PROVIDE PHOTOCELL CONTROL FOR EXTERIOR LIGHTING. MOUNT SENSOR ON THE NORTH SIDE OF BUILDING. CONTRACTOR TO ADJUST SENSOR FOR PROPER OPERATION.
- RECEPACLES TO BE MOUNTED AT 48" AFF.



RDA GROUP ARCHITECTS
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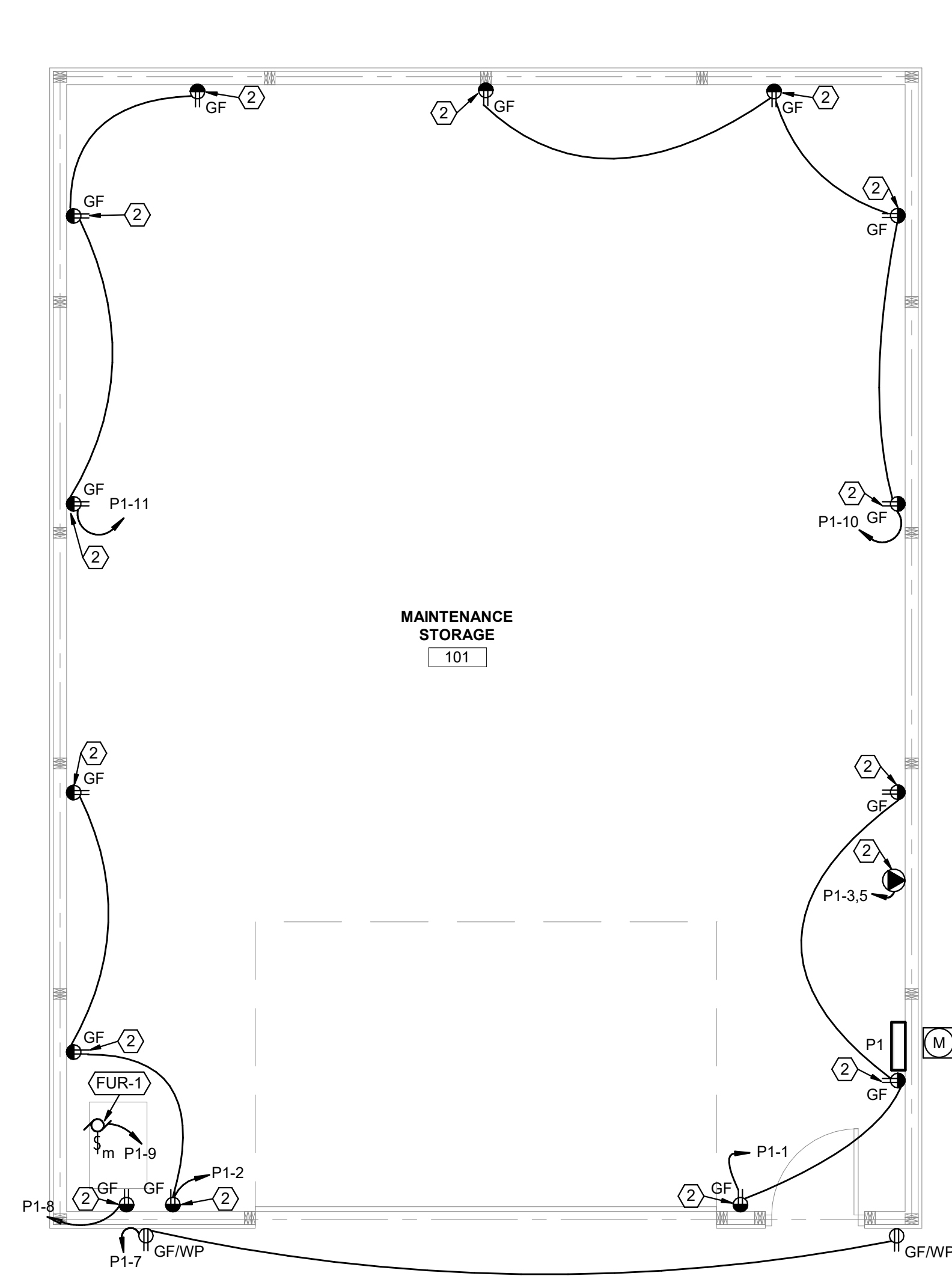


Accessory Storage Building:
Mount Crest Court
700 Mount Crest Court
Dayton, Ohio 45403

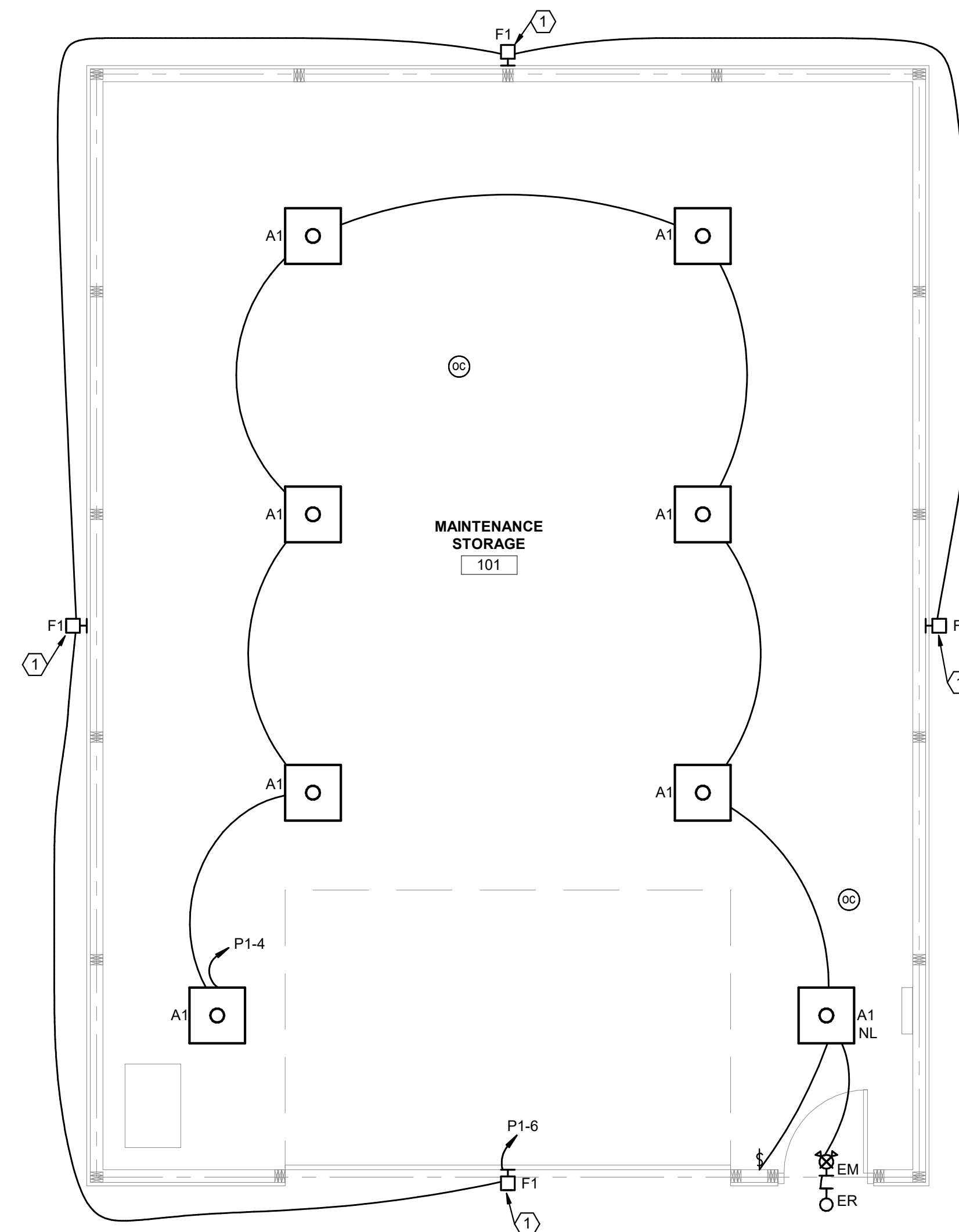
PLAN SYMBOL	DESCRIPTION/LOCATION	LOAD CHARACTERISTICS					STARTER					DISCONNECT				CTRL DEVICE			PANEL	CIRCUIT	FEEDER SIZE/ RACEWAY	NOTES	PLAN SYMBOL				
		KW	HP	VOLTAGE	PHASE	FLA	SPEED DRIVE	TYPE	NEMA SIZE	FURNISH BY	INSTALL BY	AUXIL. RELAY	LOCATION	TYPE	FURNISH BY	INSTALL BY	SWITCH/ FUSE SIZE	LOCATION						TYPE	FURNISH BY	INSTALL BY	
FUR-1	FURNACE	-	-	120	1	12	-	SW	EC	EC	EC	EC	EC	NEAR UNIT	EC	EC	EC	15A	IN UNIT	HC	HC	HC	P1	9	(2) #12, (1) #12 CU GRD IN .75" C.	-	FUR-1

ABBREVIATIONS:
CC - CONTROL CONTRACTOR FS - FUSED SWITCH GC - GENERAL CONTRACTOR VC - VENTILATION CONTRACTOR
CP - CORD/PLUG FSC - FIRE SUPPRESSION CONTRACTOR HC - HEATING CONTRACTOR TS - THERMOSTAT
EC - ELECTRICAL CONTRACTOR FSEC - FOOD SERVICE EQUIP. CONTRACTOR PC - PLUMBING CONTRACTOR NFS - NON FUSED SWITCH
ES - EQUIPMENT SUPPLIER FVNR - FULL VOLTAGE NON-REVERSING SC - SPRINKLER CONTRACTOR SW - HORSEPOWER RATED SWITCH

NOTES:



① POWER PLAN - NEW WORK
1/4" = 1'-0"



② LIGHTING PLAN - NEW WORK
1/4" = 1'-0"

Project Number	2024026
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Sheet Number	E1.1



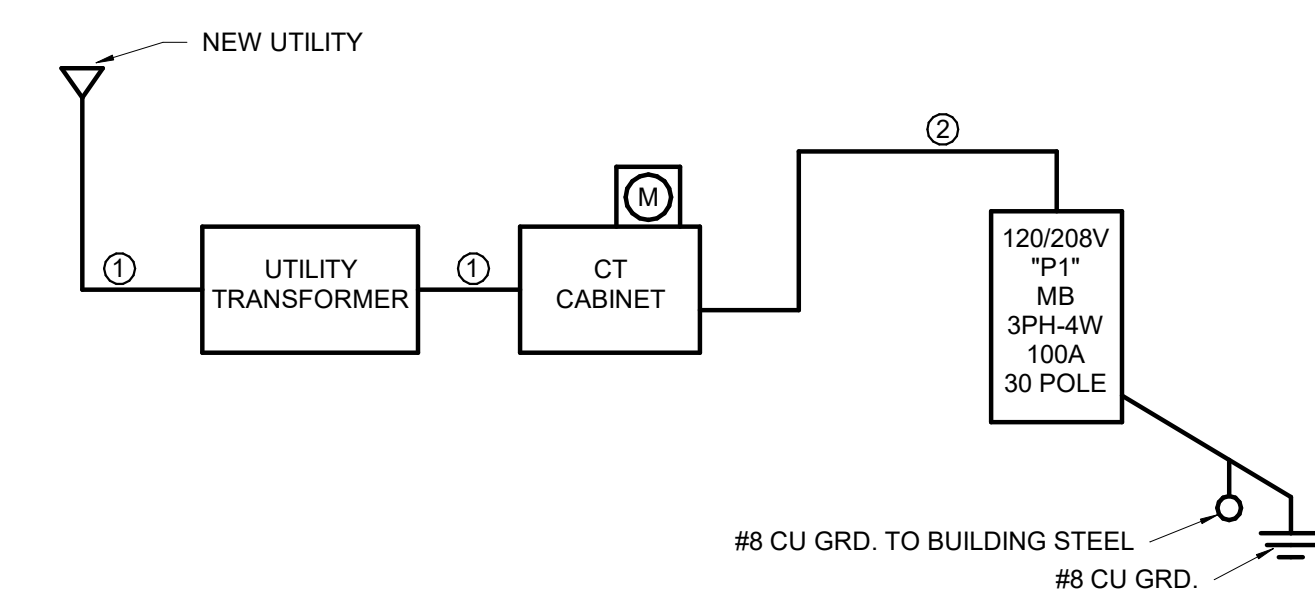
Branch Panel: P1													
Location: MAINTENANCE STORAGE 101				Volts: 120/208 Wye				A.I.C. Rating:					
Supply From:				Phases: 3				Mains Type: MB					
Mounting: Surface				Wires: 4				Mains Rating: 100 A					
Enclosure: Type 1									MCB Rating: 100 A				
Notes:													
CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECPT-	20 A	1	540	540					1	20 A	RECPT-	2
3	RECPT- MAINTENANCE STORAGE 101	35 A	2			2500	220			1	20 A	LTG - OVER HEAD	4
5	--	--	--					2500	104	1	20 A	LTG - WALL PACK	6
7	RECPT - GF/WP	20 A	1	360	180					1	20 A	RECPT - FURNACE	8
9	FURNACE	15 A	1			1440	720			1	20 A	RECPT-	10
11	RECPT-	20 A	1					540	0	1	20 A	SPARE	12
13	SPARE	20 A	1	0	0					1	20 A	SPARE	14
15	SPARE	20 A	1			0	0			1	20 A	SPARE	16
17	SPARE	20 A	1					0	0	1	20 A	SPARE	18
19	SPARE	20 A	1	0	0					1	20 A	SPARE	20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1			--	--	--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1			--	--	--	--	1	--	SPACE	30
Total Load:				1620 VA		4880 VA		3144 VA					
Total Amps:				14 A		43 A		28 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	1440 VA	100.00%	1440 VA	
Receptacle	7880 VA	100.00%	7880 VA	Total Conn. Load: 9644 VA
Lighting	324 VA	100.00%	324 VA	Total Est. Demand: 9644 VA
				Total Conn.: 27 A
				Total Est. Demand: 27 A

Legend:				

Notes:				

- ① FEEDER SCHEDULE
- ② (2) 3" CONDUITS FOR UTILITY CONDUCTORS
- ③ (4) #3 CU IN 1.5" C.



① SINGLELINE
NTS



Accessory Storage Building:
Mount Crest Court
 700 Mount Crest Court
 Dayton, Ohio 45403

Project Number	2024026
Date	February 27, 2026
Date	02.27.26
Issue	Bid/Construction Set
Sheet Title	PANELBOARD SCHEDULES AND SINGLE LINE DIAGRAM
Sheet Number	E4.1