

FINAL DEVELOPMENT PLAN APPLICATION

PROPERTY INFORMATION		
Project/Property Address: 425 s. Hamilton Rd., Gahanna, OH 43230		Project Name/Business Name: Shepherd Church of the Nazarene
Parcel #: 025-000406-00	Zoning: (see Map) RID	Acreage: 35.7 Total acres (26.12 parcel)

PLAN SPECIFICATIONS
Project Description & Proposed Use(s): Installation of double wide, pre-manufactured modular classroom unit on the west side of the existing school building. Building is to be temporary (no more than 3 years) to facilitate the growing school population while the school decides on a permanent expansion project for the school.

APPLICANT INFORMATION	
Applicant Name (Primary Contact): Jeff Hutcheson	Applicant Address: 3351 McDowell Rd./PO Box 370, Grove City, OH 43210
Applicant E-mail: jhutcheson@mcknightgroup.com	Applicant Phone: 614-875-1689
Business Name (if applicable): McKnight & Hosterman Architects, Inc.	

ADDITIONAL CONTACTS	
Please list all applicable contacts for correspondence	
Name(s)	Contact Information (phone/email)
Mike Fluhart (principal of the school)	mfluhart@shepherdchristian.school 614-471-0859 (ext. 223)
Property Owner Name: (if different from Applicant) Shepherd Church of the Nazarene	Property Owner Contact Information (phone no./email): Mike Fluhart (see info above)

APPLICANT SIGNATURE BELOW CONFIRMS THE SUBMISSION REQUIREMENTS HAVE BEEN COMPLETED

I certify that the information on this application is complete and accurate to the best of my knowledge, and that the project as described, if approved, will be completed in accordance with the conditions and terms of that approval.

Applicant Signature: Jeffrey T. Hutcheson Digitally signed by Jeffrey T. Hutcheson
DN: C=US, E=jhutcheson@mcknightgroup.com,
O="McKnight & Hosterman Architects, Inc.",
CN=Jeffrey T. Hutcheson
Date: 2023.08.02 11:37:02-04'00' Date: 8/2/23

ADDITIONAL INFORMATION ON NEXT PAGE....

INTERNAL
USE

Zoning File No. FDP-0364-2023

RECEIVED: KAU
DATE: 8-22-23

PAID: 1000.00
DATE: 8-22-23

**Updated
Apr 2022**

FINAL DEVELOPMENT PLAN APPLICATION - SUBMISSION REQUIREMENTS

TO BE COMPLETED/SUBMITTED BY THE APPLICANT:	
1.	Review Gahanna Code Chapter 1108 (visit www.municode.com) & Chapter 914 , Tree Requirements
2.	Pre-application conference with staff. Contact zoning@gahanna.gov to schedule
3.	The Final Development Plan shall include the following: <ol style="list-style-type: none"> Scale: Minimum - one inch equals 100 feet. The proposed name of the development, approximate total acreage, north arrow, and date The names of any public and/or private streets adjacent to or within the development Names and addresses of owners, developers and the surveyor who designed the plan Vicinity map showing relationship to surrounding development and its location within the community Natural features currently within proposed development, including drainage channels, tree lines, bodies of water, and other significant features Zoning district, building and parking setbacks Proposed location, size and height of building and/or structures Location and dimensions of proposed driveways and access points Proposed parking and number of parking spaces Distance between buildings
4.	A table of development calculations is required which shall include: <ol style="list-style-type: none"> Parking calculations: (square footage of proposed buildings, number of spaces per square foot, number of spaces required, and actual number of spaces proposed) Lot coverage calculations: (square footage of site, area of permanently impervious surfaces broken down into buildings and parking, area of uncovered land, coverage requirements, proposed lot coverage) Setback calculations necessary when commercial abuts residential (if needed; see chapter 1167.20) Landscaping calculations: (square footage of pavement, proposed area of landscaping, square footage of landscaping, number of trees required, and number of trees proposed; see chapter 1163.08)
5.	Any other information the Planning Commission may deem to be necessary to evaluate the application. These items can include such things as elevations, traffic studies, floor plans, etc.
6.	List of contiguous property owners & their mailing address
7.	One set of pre-printed mailing labels for all contiguous property owners
8.	Application fee (<i>in accordance with the Building & Zoning Fee Schedule</i>)
9.	Application & all supporting documents submitted in digital format
10.	Application & all supporting documents submitted in hardcopy format
11.	One (1) copy 24"x36" or 11"x17" prints of the plans
12.	Authorization Consent Form Complete & Notarized (see page 3)

PLEASE NOTE:

- The Public Hearing will not occur until the City of Gahanna reviews the Application for Code Consistency. Applications that are not consistent with the code will not be scheduled for hearing.
- The application expires if no action is taken 6 months from the date of the last staff comment letter.

AUTHORIZATION CONSENT FORM

(must sign in the presence of a notary)

If you are filling out more than one application for the same project & address, you may submit a copy of this form with additional applications.

PROPERTY OWNER

IF THE PROPERTY OWNER IS THE APPLICANT, SKIP TO NEXT SECTION

As the property owner/authorized owner's representative of the subject property listed on this application, hereby authorize the applicant/representative to act in all matters pertaining to the processing and approval of this application, including modifying the project. I agree to be bound by all terms and agreements made by the applicant/representative.

Michael T. Fluhart
 (property owner name printed)

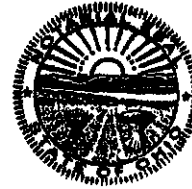
[Signature]
 (property owner signature)

8/19/23
 (date)

Subscribed and sworn to before me on this 9 day of August, 2023.

State of Ohio County of Franklin

Notary Public Signature: Sydney J. McGrath



Stamp or Seal
 Sydney J. McGrath
 Notary Public, State of Ohio
 My Commission Expires 07-26-2027

Applicant/Property Owner/Representative

AGREEMENT TO COMPLY AS APPROVED As the applicant/representative/owner of the subject property listed on this application, I hereby agree that the project will be completed as approved with any conditions and terms of the approval, and any proposed changes to the approval shall be submitted for review and approval to City staff.

AUTHORIZATION TO VISIT THE PROPERTY I hereby authorize City representatives to visit, photograph and post notice (if applicable) on the subject property as described.

APPLICATION SUBMISSION CERTIFICATION I hereby certify that the information on this application is complete and accurate to the best of my knowledge.

JERREY T. HUTCHESON

(applicant/representative/property owner name printed)

[Signature]
 (applicant/representative/property owner signature)

8/17/23
 (date)

Subscribed and sworn to before me on this 17th day of August, 2023.

State of Ohio County of Franklin

Notary Public Signature: Andrea J. Tipton



Stamp or Seal
 ANDREA J. TIPTON
 Notary Public, State of Ohio
 My Commission Expires 4-24-28

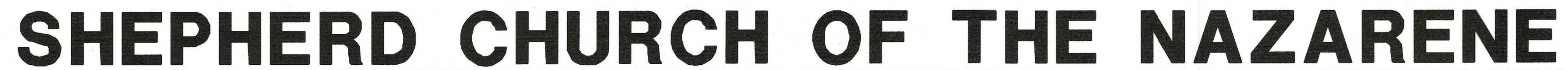
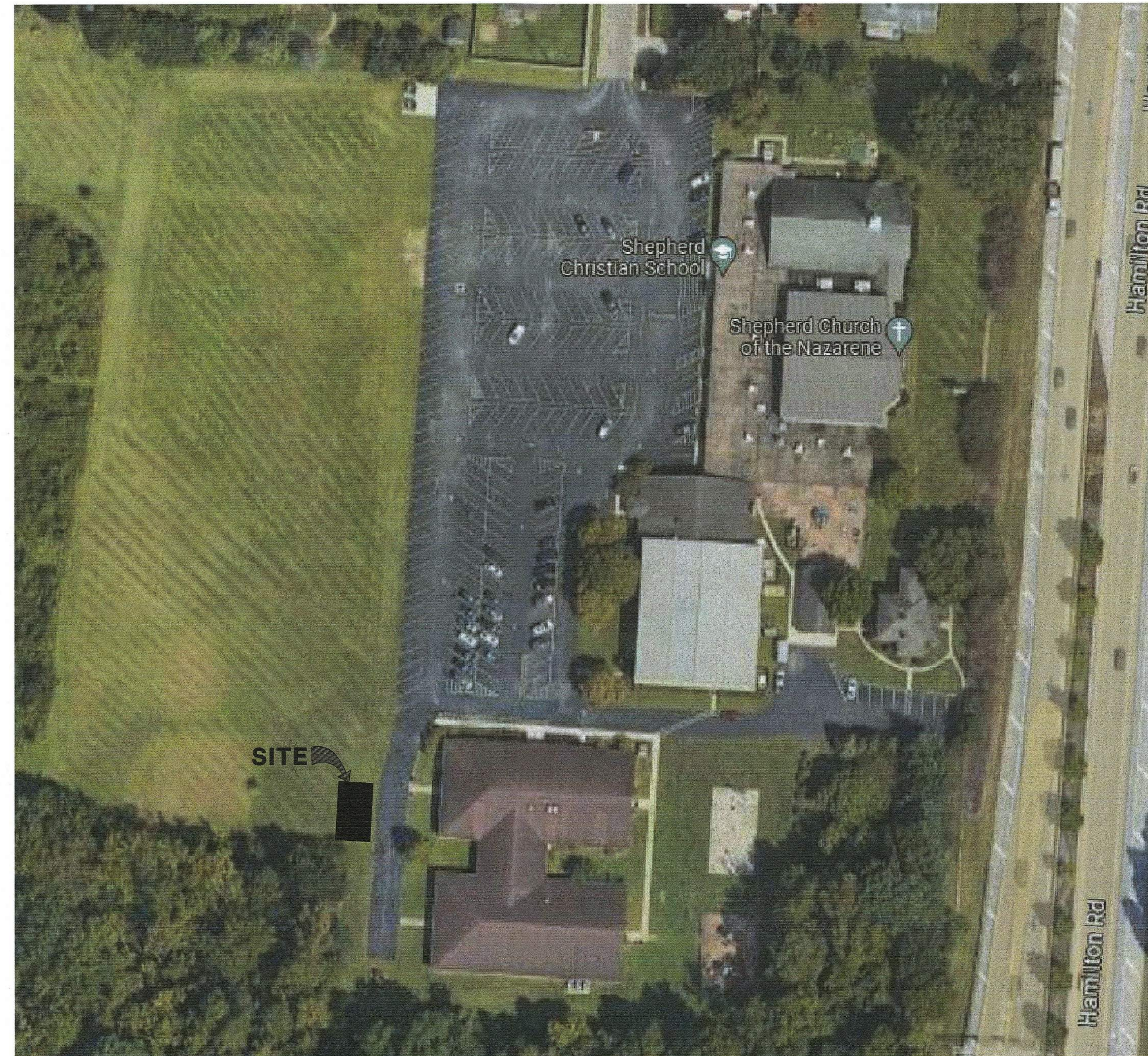
Shepherd Church of the Nazarene owned properties:

Mark	ID	Owner	Property Address	Owner Address (if different from physical add.)
1	025-002211-00	SCN	S Rocky Fork Dr.	
2	025-000473-00	SCN	401 S Rocky Fork Dr.	425 S. Hamilton Rd., Gahanna, OH 43230
3	025-000472-00	SCN	393 S Rocky Fork Dr.	
4	025-000471-00	SCN	387 S Rocky Fork Dr.	
5	025-000470-00	SCN	373 S Rocky Fork Dr.	
6	025-000469-00	SCN	367 S Rocky Fork Dr.	
7	025-000406-00	SCN	1501 N Hamilton Rd.	425 S. Hamilton Rd., Columbus, OH 43230
8	025-002205-00	SCN	425 S Hamilton Rd.	
9	025-012950-00	SCN	N Hamilton Rd	

Neighboring properties

Mark	ID	Owner	Property Address	Owner Address (if different from physical add.)
10	April Lane			
11	025-000468-00	Patricia A. Winterhalter	359 S Rocky Fork Dr.	14895 Cline Rd., Danville, OH 43014-9521
12	025-000467-00	Robert E. Miller III and Robyn M. Falzone	353 S Rocky Fork Dr.	
13	025-000466-00	Scott T. Hisey	345 S Rocky Fork Dr.	
14	025-000465-00	Richard P. Tr. Parker	339 S Rocky Fork Dr.	
15	025-000464-00	Josh E. Burford and Jason B. McKee	331 S Rocky Fork Dr.	
16	025-000463-00	Jeanne E. and Ronald H. Parker	325 S Rocky Fork Dr.	
17	025-000462-00	Helen Joan Donley	317 S Rocky Fork Dr.	
18	025-000461-00	Johnathan David and Kaitlyn E. Pattee	311 S Rocky Fork Dr.	
19	025-000460-00	Pamela J. Frye	303 S Rocky Fork Dr.	
20	025-000459-00	Glen E. Wilson	297 S Rocky Fork Dr.	11231 Pickerington Rd., Pickerington, OH 43147
21	025-012951-00	City of Gahanna	N Hamilton Rd. Rear	200 S. Hamilton Rd., Columbus, OH 43230
22	025-002538-00	City of Gahanna	N Hamilton Rd.	200 S. Hamilton Rd., Columbus, OH 43230
23	025-013582	City of Gahanna	Hamilton Rd. Rear	200 S. Hamilton Rd., Columbus, OH 43230

*NOTE: All property information obtained from Franklin County Auditors website.

**GAHANNA, OHIO 43230**[illegible][illegible]

OWNER PARTICIPATION SCHEDULE			
NO.	ITEM	FURNISHED AND INSTALLED/DONE BY OWNER	FURNISHED BY OWNER, INSTALLED BY CONTR.
1.	ALL RISK INSURANCE	✓	
2.	TEMPORARY UTILITIES	✓	
3.	FURNITURE	✓	
4.	EXTERIOR SIGNAGE	✓	
5.	INTERIOR SIGNAGE	✓	
6.	WINDOW TREATMENTS	✓	
7.	ENTRY MATS	✓	
8.	TELEPHONE/INTERCOM SYSTEMS	✓	
9.	SECURITY SYSTEMS	✓	
10.	ELECTRONIC INFO. DISPLAYS	✓	
11.	I.T. / WIFI EQUIPMENT/CONN.	✓	
12.			

THE SCOPE OF THE PROJECT IS THE INSTALLATION OF A USED DOUBLE WIDE CLASSROOM MODULE ON THE EXISTING SITE FOR THE PURPOSE OF EXPANDING THE CLASSROOMS OF THE EXISTING CHRISTIAN SCHOOL. THE COMPANY THAT IS SUPPLYING THE MODULAR UNIT(S) IS RESPONSIBLE FOR PLACING THE UNIT ON THE FOUNDATIONS PROVIDED BY THE GC ON THE PROJECT AND SECURING THE ANCHORS PER MANUFACTURES RECOMMENDATIONS AND AS DESCRIBED BY THE STRUCTURAL DRAWINGS.

EXISTING SITE INFORMATION INCLUDING TOPOGRAPHY WAS DETERMINED FROM CIVIL DRAWINGS SUBMITTED AND APPROVED FOR THE PREVIOUS SCHOOL SUBMISSION IN 2004 AND COORDINATED WITH INFORMATION OBTAINED FROM THE FRANKLIN COUNTY GIS ONLINE WEBSITE AND SITE VERIFICATION AND DIMENSIONING.

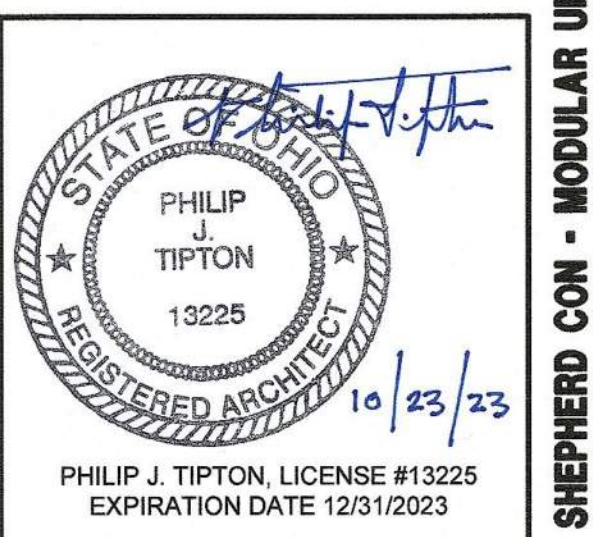
SPECIAL INSPECTIONS ARE REQUIRED TO BE PERFORMED BY AN INDEPENDENT THIRD PARTY TESTING AGENCY FOR CONSTRUCTION ON THIS PROJECT, WHICH HAS NOT BEEN DETERMINED AT THE TIME OF PERMIT SUBMISSION. ONCE THE FIRM HAS BEEN SELECTED TO PERFORM THE SPECIAL INSPECTIONS, THEIR CONTACT INFORMATION AND CREDENTIALS WILL BE SENT TO THE BUILDING DEPARTMENT FOR THEIR RECORDS. AREAS OF SPECIAL INSPECTIONS ARE OUTLINED ON STRUCTURAL SHEET SO.1, BUT A SUMMARY OF THE FOLLOWING AREAS ARE TO BE INSPECTED:

1. MASONRY CONSTRUCTION
2. POURED CONCRETE FOOTINGS (ANCHORS, SPECIMEN TESTING, ETC.)
3. FILLED WELDING OF TIE DOWN ANCHORS

ALTERNATE 1: USE OF PRE-MANUFACTURED, TEMPORARY ALUMINUM STAIRS AND RAMP WITH RAILINGS, TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS INSTEAD OF CONSTRUCTED WOOD STAIRS AND RAMP AS INDICATED ON THE DRAWINGS.

	DATE	STATUS
	11 JUL 23	PRELIMINARY - DD#1 SET
X	01 AUG 23	100% REVIEW / PERMIT SET

MARK	DATE	SHEETS/COMMENTS
A	20 OCT 23	CORRECTION LETTER COMMENTS



SHEPHERD CON - MODULAR UNITS

Plot Date: 10/20/2023 3:22:17 PM _cover-223223.dwg Hutcheson, Jeff



McKnight & Hosterman Architects, Inc.

3351 McDowell Road P.O. Box 370 Grove City, Ohio 43123 Phone (614) 875-1689 Philip J. Tipton NCARB Certificate No. 5650

SET NUMBER _____ SET DATE - 08 AUG 23 COMM. NO. 223223



SHEPHERD CHURCH OF THE NAZARENE

425 S. HAMILTON ROAD

GAHANNA, OHIO 43230

Zoning: City of Gahanna

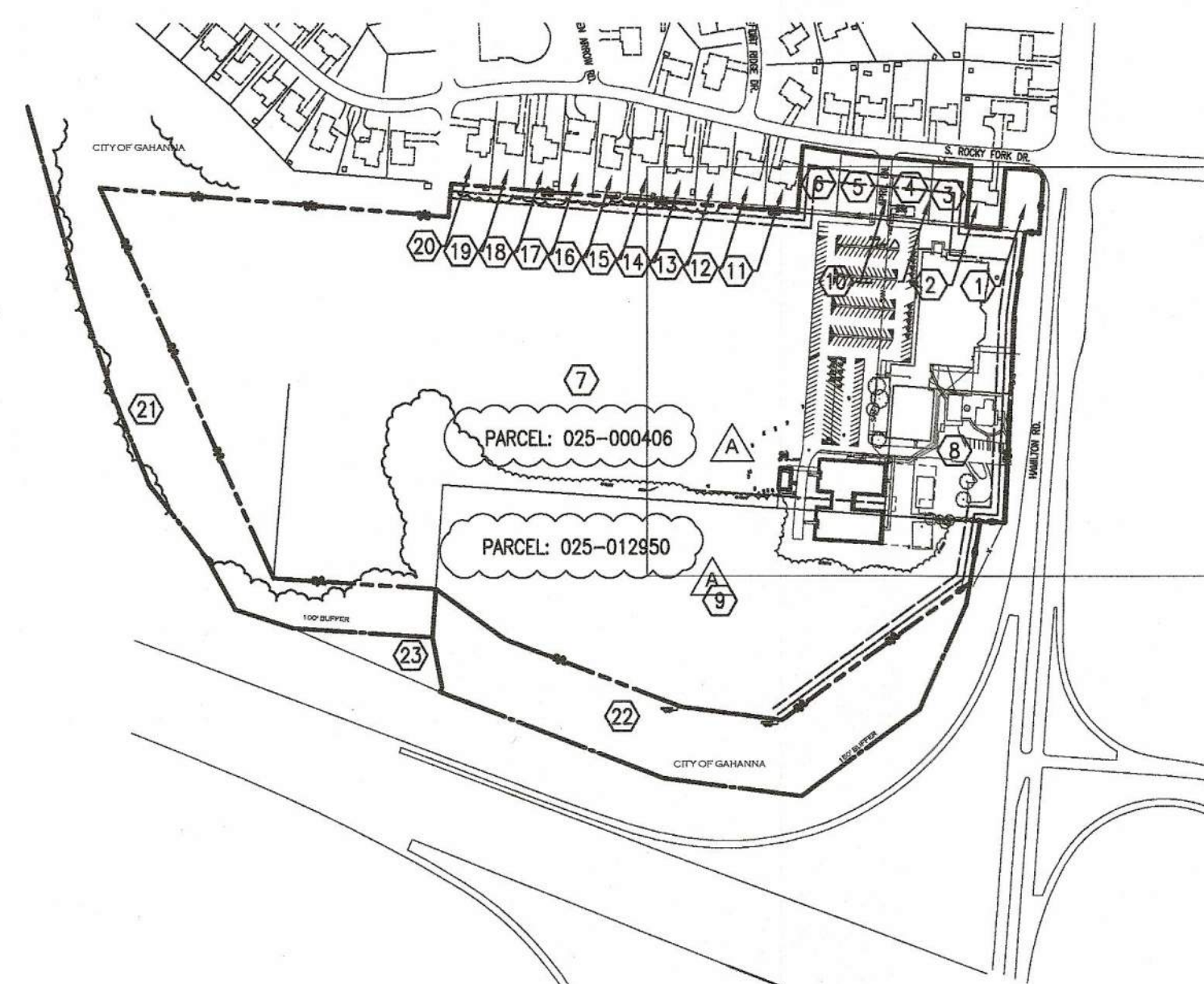
Franklin County, Ohio



ADJACENT PROPERTY INFORMATION.

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*NOTE: All property information obtained from Franklin County Auditors website.



ADJACENT PROPERTIES INDEX
SCALE: NOT TO SCALE

EXISTING ZONING INFORMATION.

ZONING INFORMATION

ZONING DISTRICT - RID (RESTRICTED INSTITUTIONAL DISTRICT)

SITE AREA = 35.70 AC (1,555,092.00 SQFT)

EXISTING BUILDING HEIGHT = 24'-6", PER SECT. 1143.05

MODULAR BUILDING HEIGHT = ±13'-4" ABOVE GRADE

DISTRICT BUILDING HEIGHT ALLOWABLE = 30'-0"

FLOOD ZONE - ZONE X

AS SHOWN ON FLOOD INSURANCE RATE MAP (PANEL 188 OF 387)

COMMUNITY PANEL # 39049C0188-G DATED: AUGUST 2, 1995

PARKING

TOTAL EXISTING PARKING - 189 SPACES
H.C. PARKING (INCL) - 17 SPACES



OVERALL SITE PLAN
SCALE: 1" = 100'

BENCH MARKS

(BASED ON 1929 NGVD)

BM #1 - IRON PIN (SET) LOCATED @ THE NORTH WEST CORNER OF THE PROPOSED ADDITION ELEV - 812.27

BM #2 - IRON PIN (SET) LOCATED @ THE SOUTH EAST CORNER OF THE FUTURE ADDITION ELEV - 812.27

DIRECTOR OF ENGINEERING, CITY OF GAHANNA, OHIO

DATE:

SENIOR UTILITIES ENGINEER, CITY OF GAHANNA

DATE:

REVISIONS

MARK	DATE	SHEETS
A	20 OCT-2023	COVER, C1.1, C1.2

INDEX OF DRAWINGS

SHEET	SHEET DESCRIPTION
COVER	ZONING INFORMATION, NOTES, AND INDEX OF CIVIL DRAWINGS
C1.1	ARCHITECTURAL SITE IMPROVEMENT PLAN
C1.2	SEDIMENT CONTROL DETAILS
3	TOTAL SHEETS INCLUDING COVER SHEET

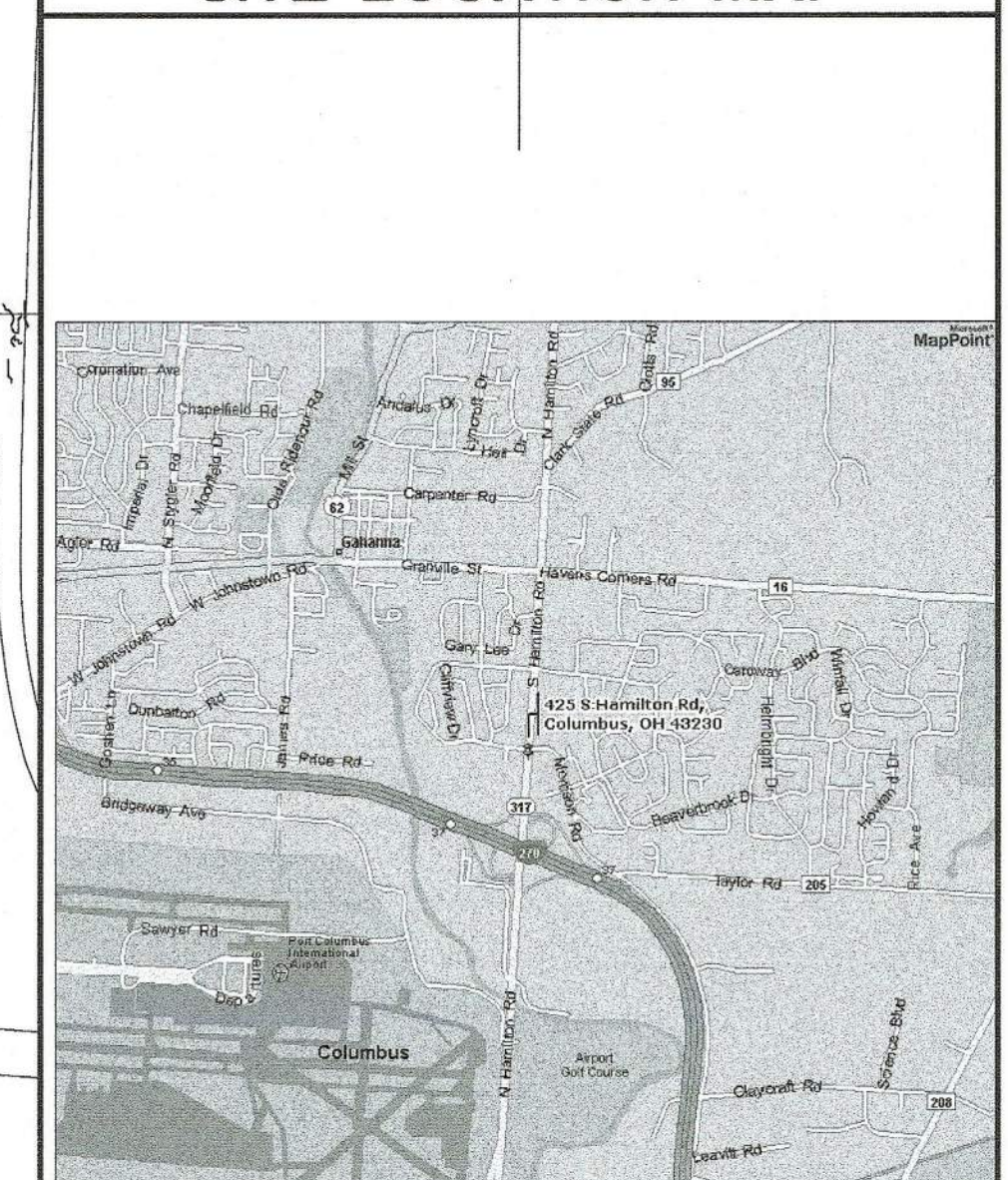
STANDARD CONSTRUCTION DRAWING LIST

THE STANDARD CONSTRUCTION DRAWINGS LISTED ON THESE PLANS SHALL BE CONSIDERED A PART THEREOF.

ESTIMATE OF QUANTITIES

ITEM	UNIT	QUANTITY	DESCRIPTION
207	EACH	3	DANDY BAG SEDIMENT FILTER
207	L.F.	250	SEDIMENT CONTROL FENCE
207	LUMP SUM	AS NEEDED	TEMPORARY SEEDING

SITE LOCATION MAP



McKnight & Hosterman Architects, Inc.

3351 McDowell Road P.O. Box 370 Grove City, Ohio 43123 Phone (614) 875-1089 Philip J. Tipton NCARB Certificate No. 58503

SET NUMBER _____ SET DATE - 08 AUG 23 COMM. NO. 223223

SHEPHERD CON - MODULAR UNITS

GRADING LEGEND		
NOTE: NOT ALL SYMBOLS LISTED BELOW ARE APPLICABLE TO THIS PROJECT		
EXISTING	PROPOSED	DESCRIPTION
		UTILITY POLE
		PAD MTD. TRANSFORMER
		LIGHT POLE
		GROUND LIGHT
		FIRE HYDRANT
		WATER METER
		GAS METER
		CLEAN OUT
		YARD DRAIN
		CATCH BASIN
		SANITARY MANHOLE
		DRAINAGE MANHOLE
		GUY WIRE
		P/L
		R/W
		NEW GRADE CONTOUR WITH ELEVATION
		EXISTING GRADE CONTOUR WITH ELEVATION (DASHED)
		FG
		TC
		TOC
		BOC
		TP
		HP
		MAJOR FLOOD ROUTING
		STORMWATER ROUTING

DRAINAGE SCHEDULE			
STRUCTURE	DESCRIPTION	TOP OF CASTING	INVERT ELEVATION
①	(E) CATCH BASIN	808.75	805.40
②	(E) END WALL		799.00
③	(E) HEAD WALL		796.80±
④	(E) CATCH BASIN	809.80	806.42
⑤	(E) CATCH BASIN	810.70	807.68

GENERAL PLAN NOTES:

- SEE SHEET C1.1 FOR SITE IMPROVEMENT INFORMATION.
- ALL DAMAGE TO EXISTING ASPHALT DRIVES AND PARKING AREAS CAUSED BY CONSTRUCTION MUST BE REPAIRED.
- AFTER MODULAR UNIT(S) IS/ARE SECURED IN ITS FINAL LOCATION, ALL SOILS EXTRACTED FROM FOOTING EXCAVATIONS ARE TO BE SPREAD OVER EXISTING FIELD TO THE WEST OF THE EXISTING CHURCH, OR REMOVED FROM THE SITE COMPLETELY.
- EXISTING SITE INFORMATION INCLUDING TOPOGRAPHY WAS DETERMINED FROM CIVIL DRAWINGS SUBMITTED AND APPROVED FOR THE PREVIOUS SCHOOL SUBMISSION IN 2004 AND COORDINATED WITH INFORMATION OBTAINED FROM THE FRANKLIN COUNTY GIS ONLINE WEBSITE AND SITE VERIFICATION AND DIMENSIONING.
- NEW UTILITIES SUPPORTING THE MODULAR UNIT (ELECTRIC AND GAS) ARE TO BE PLACED UNDERGROUND IN A MANNER TO NOT CONFLICT WITH OR INTERFERE WITH EXISTING STORMWATER DRAINAGE SYSTEM.

KEYED NOTES

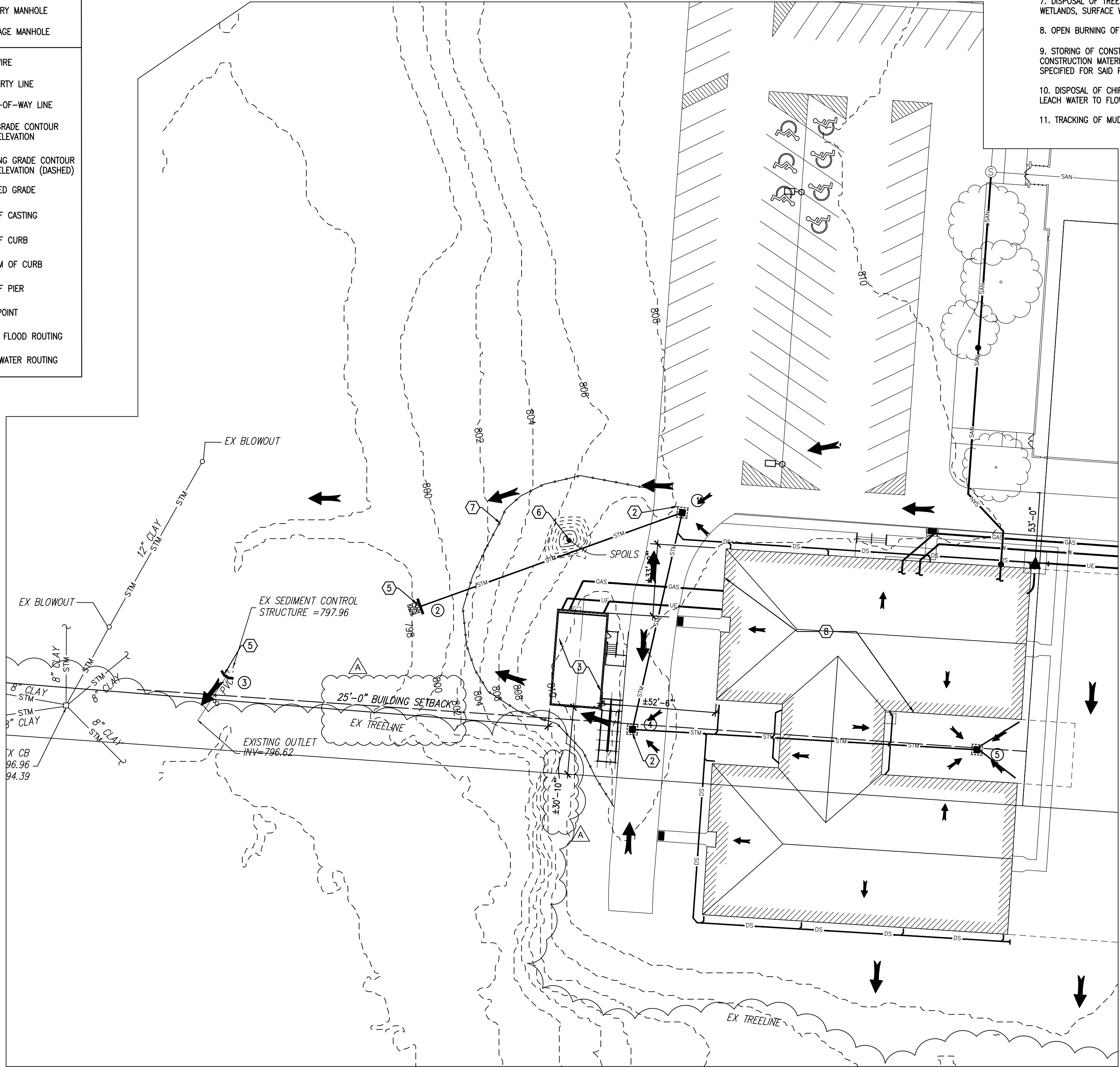
- PROPOSED LIMITS OF SILT FENCE (APPROX. 250'-0").
- EXISTING STORMWATER STRUCTURE TO REMAIN. INSTALL SILT PROTECTION BAG DURING CONSTRUCTION TO PROTECT FROM SEDIMENT RUNOFF IF NEEDED.
- MINIMAL AMOUNT OF TOPSOIL TO BE REMOVED DIRECTLY BENEATH MODULAR UNITS IN ORDER TO FLATTEN THE GROUND FOR PLACEMENT OF FOOTINGS.
- LIMITS OF EXISTING ASPHALT DRIVE. UTILITY LINES ARE TO BE BORED UNDER DRIVE IF POSSIBLE TO PREVENT DIGGING UP DRIVE.
- EXISTING SEDIMENT CONTROL STRUCTURE TO REMAIN AND PROTECTED AS REQUIRED.
- PROPOSED LOCATION OF SOIL PILE FROM EXCAVATED FOOTINGS.
- APPROXIMATE LOCATION OF PROPOSED SILT FENCING FOR EROSION CONTROL.
- LIMITS OF EXISTING SCHOOL BUILDING.

PROHIBITED CONSTRUCTION ACTIVITIES:

- THE CONTRACTOR SHALL NOT USE CONSTRUCTION PROCEEDING, ACTIVITIES, OR OPERATIONS THAT MAY UNNECESSARILY IMPACT THE NATURAL ENVIRONMENT OR THE PUBLIC HEALTH AND SAFETY. PROHIBITED CONSTRUCTION PROCEEDINGS, ACTIVITIES, OR OPERATIONS INCLUDED BUT NOT LIMITED TO:
- DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOODPLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.
 - INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, WATERS, ANY WETLANDS, OR ANY AREA OUTSIDE OF THE PROPOSED WORK AREAS.
 - PUMPING OF SEDIMENT LADEN-WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, STREAM CORRIDORS, WETLANDS, OR STORM DRAINS.
 - DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUEL, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWAGE, AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENT, OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.
 - PERMANENT OR UNSPECIFIED ALTERATION OF FLOW LINE OF A STREAM.
 - DAMAGING VEGETATION OUTSIDE OF THE PROPOSED WORK LIMITS, INSIDE NO-BUILD ZONES, AND TREE PROTECTION AREAS.
 - DISPOSAL OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, WETLANDS, SURFACE WATERS, OR ANY OTHER UNSPECIFIED LOCATION.
 - OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.
 - STORING OF CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED FOR SAID PURPOSE.
 - DISPOSAL OF CHIP WOOD IN SUCH A MANNER THAT WOULD ALLOW CHIP WOOD LEACH WATER TO FLOW TO ANY SURFACE WATER, STREAM CORRIDOR, OR WETLAND.
 - TRACKING OF MUD AND OTHER CONSTRUCTION DEBRIS ONTO ROADWAY.

SEDIMENTATION NOTES:

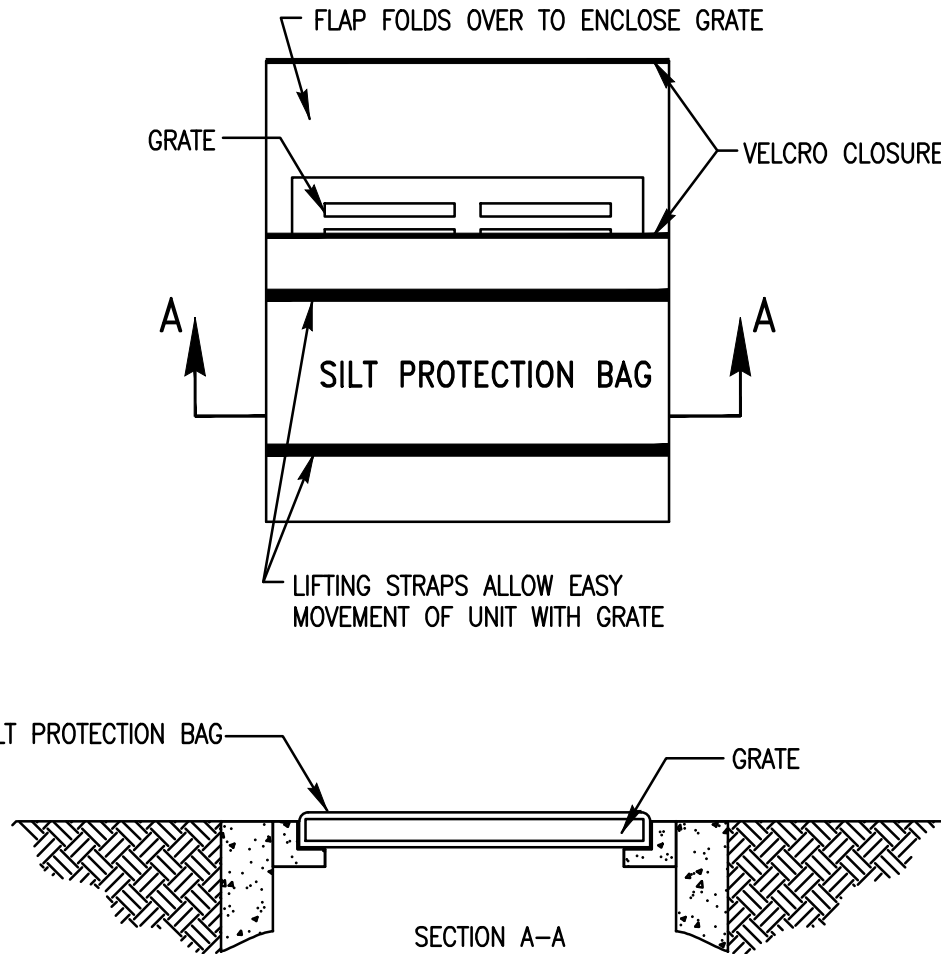
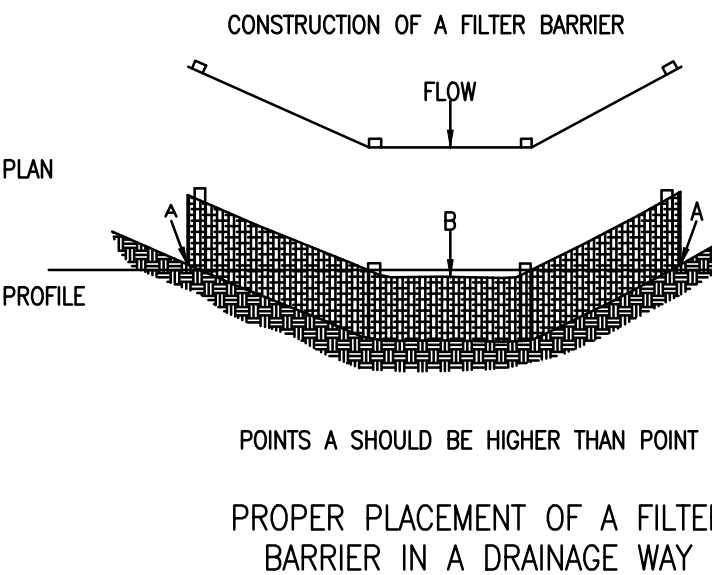
- EROSION AND SEDIMENTATION CONTROL PRACTICES SHALL BE INSTALLED AS A FIRST STEP IN THE CONSTRUCTION SEQUENCE AND SHALL BE FUNCTIONAL THROUGHOUT EARTH DISTURBING ACTIVITIES OF THE DEVELOPMENT PHASE.
- ALL TRENCH DEWATERING EFFLUENT SHALL BE DISCHARGED THROUGH A SEDIMENTATION BASIN OR OTHER SETTLING DEVICE APPROVED BY FRANKLIN SOIL AND WATER CONSERVATION DISTRICT.
- IF REQUIRED, A PRE-CONSTRUCTION MEETING AT THE PROPOSED SITE SHALL BE ARRANGED BETWEEN THE CONTRACTOR(S), ARCHITECT, AND FRANKLIN SOIL AND WATER CONSERVATION DISTRICT NO LESS THAN 7 DAYS PRIOR TO BEGINNING OF ACTIVITIES ASSOCIATED WITH THE DEVELOPMENT PHASE. AT THIS MEETING AN ABSOLUTE CONSTRUCTION SEQUENCE, SITE CONTACT AND EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE SUBMITTED TO THE FRANKLIN SOIL AND WATER CONSERVATION DISTRICT REPRESENTATIVE.
- TEMPORARY / PERMANENT SEED SHALL BE APPLIED TO DENUDED AREAS WITHIN 7 DAYS IF THEY ARE TO REMAIN DORMANT FOR MORE THAN 21 DAYS.
- TEMPORARY / PERMANENT SEED SHALL BE APPLIED TO DENUDED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.
- SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE DIVERTED TO AN APPROVED SETTLING STRUCTURE.
- NO-BUILD ZONES AND TREE PRESERVATION AREAS SHALL BE CLEARLY IDENTIFIED BY HIGH-VISIBILITY ORANGE PERIMETER FENCING.
- PERSONNEL FROM FRANKLIN SOIL AND WATER CONSERVATION DISTRICT SHALL MAKE ROUTINE INSPECTIONS TO ENSURE THE EROSION AND SEDIMENTATION PLAN COMPLIANCE.
- ALTHOUGH NOT ANTICIPATED FOR THIS PROJECT, ADDITIONAL OR ALTERNATE EROSION AND SEDIMENTATION CONTROL PRACTICES, NOT INDICATED ON THIS PLAN, MAY BE REQUIRED DUE TO UNFORESEEN ENVIRONMENTAL AND/OR CHANGES IN DRAINAGE PATTERNS CAUSED BY EARTH MOVING ACTIVITIES. FRANKLIN SOIL AND WATER CONSERVATION DISTRICT SHALL CONTACT THE SITE CONTACT INDICATED AT THE PRE-CONSTRUCTION MEETING, TO ADDRESS THE AMENDMENTS TO THE EROSION AND SEDIMENTATION CONTROL PLAN.
- RIGHT OF WAYS, CRITICAL AREAS, AND DENUDED AREAS TO REMAIN DORMANT >45 DAYS OR AT FINAL GRADE SHALL BE SEEDED PRIOR TO BEING CONSIDERED FOR SUBSTANTIAL COMPLETION.



SEDIMENT/STORMWATER MANAGEMENT PLAN
SCALE: 1" = 30'

- PRESERVING EXISTING VEGETATION**
- WHENEVER POSSIBLE, PRESERVE EXISTING TREES, SHRUBS, AND OTHER VEGETATION.
 - TO PREVENT ROOT DAMAGE, DO NOT GRADE, PLACE SOIL PILES, OR PARK VEHICLES NEAR TREES MARKED FOR PRESERVATION.
- SILT FENCE & STRAW BALES**
- PUT UP BEFORE ANY OTHER WORK IS DONE.
 - INSTALL ON DOWNSLOPE SIDE(S) OF SITE WITH ENDS EXTENDED UP SIDESLOPES A SHORT DISTANCE.
 - PLACE PARALLEL TO THE CONTOUR OF THE LAND TO ALLOW WATER TO POND BEHIND FENCE.
 - ENTRENCH 6 INCHES DEEP.
 - STRAW BALES SHALL BE USED ONLY IN MAJOR DITCH LINES WITH THE APPROVAL OF THE CITY ENGINEER. ALL OTHER LOCATIONS REQUIRE SILT FENCE.
 - STAKE (2 STAKES PER BALE OR 1 STAKE EVERY 3 FEET FOR SILT FENCE).
 - LEAVE NO GAPS BETWEEN BALES OR SECTIONS OF SILT FENCE.
 - INSPECT AND REPAIR ONCE A WEEK AND AFTER EVERY 1/2 INCH RAIN. REMOVE SEDIMENT IF DEPOSITS REACH HALF THE FENCE OR STRAW BALE HEIGHT.
 - MAINTAIN UNTIL A LAWN IS ESTABLISHED.
- SOIL PILES**
- LOCATED AWAY FROM ANY DOWNSLOPE STREET, DRIVEWAY, STREAM, LAKE, WETLAND, DITCH OR DRAINAGEWAY.
 - TEMPORARY SEED SUCH AS ANNUAL RYE IS RECOMMENDED FOR TOPSOIL PILES.
 - SURROUND WITH STRAW BALES OR SILT FENCE.
- SEDIMENT CLEANUP**
- BY THE END OF EACH WORK DAY, SWEEP OR SCRAPE UP SOIL TRACKED ONTO THE ROAD AND IN THE GUTTERS.
 - BY THE END OF THE NEXT WORK DAY AFTER A STORM, CLEAN UP SOIL WASHED OFF-SITE, AND CHECK STRAW BALES AND SILT FENCE FOR DAMAGE OR SEDIMENT BUILDUP.
- IF CONSTRUCTION IS COMPLETED AFTER AUGUST 31, SEEDING OR SODDING MAY BE DELAYED. APPLY MULCH AND TEMPORARY SEED (SUCH AS RYE OR WINTER WHEAT) FROM SEPTEMBER 1 TO MARCH 15. STRAW BALES OR SILT FENCES MUST BE MAINTAINED UNTIL FINAL SEEDING IS COMPLETED IN SPRING, MARCH 15 TO MAY 31.

- REVEGETATION**
- DISTURBED SOILS SHALL BE STABILIZED AS QUICK AS PRACTICABLE WITH TEMPORARY VEGETATION AND / OR MULCHING TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT. TEMPORARY MULCH IS TO BE APPLIED AT THE RATE OF 2-3 BALES OF STRAW PER 1000 SQ. FT.
- SODDING (ALTERNATE)**
- SPREAD 4 TO 6 INCHES OF TOPSOIL.
 - FERTILIZE ACCORDING TO SOIL TEST (OR APPLY 10 LB. / 1000 SQ. FT. OF 20-10-10 OR 10-10-10 FERTILIZER).
 - INSTALL SOD IN ACCORDANCE WITH SUPPLIERS' RECOMMENDATIONS.
 - WATERING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SUPPLIERS' RECOMMENDATIONS AND/OR UNTIL LAWN IS WELL ESTABLISHED.
- SEEDING AND MULCHING**
- RESPEAD 4 TO 6 INCHES OF EXISTING TOPSOIL.
 - FERTILIZE ACCORDING TO SOIL TEST (OR APPLY 10 LB. / 1000 SQ. FT. OF 20-10-10 OR 10-10-10 FERTILIZER).
 - SEED WITH AN APPROPRIATE MIX FOR THE SITE.
 - RAKE LIGHTLY TO COVER SEED WITH 1/4" OF SOIL. ROLL LIGHTLY.
 - MULCH WITH STRAW (2-3 BALES PER 1000 SQ. FT.) FROM MARCH 15 TO AUGUST 31.
 - ANCHOR MULCH BY PUNCHING 2 INCHES INTO THE SOIL WITH A DULL, WEIGHTED DISK OR BY USING NETTING OR OTHER MEASURES ON STEEP SLOPES AND WINDY AREAS.
 - WATERING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SUPPLIERS' RECOMMENDATIONS AND/OR UNTIL LAWN IS WELL ESTABLISHED.



EROSION CONTROL DETAIL
SCALE: N.T.S.

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3351 McDowell Road
P.O. Box 370
Grove City, Ohio 43123

Phone: (614) 873-1889
Fax: (614) 873-7086
www.mcknightgroup.com

Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

Modular Building Addition for:

**SHEPHERD CHURCH
OF THE NAZARENE**

425 S. HAMILTON ROAD
GAHANNA, OH 43230

DRAWING	DATE
<input type="checkbox"/> REVIEW SET	11 JUL 23
<input checked="" type="checkbox"/> Permit/Bid Set	08 AUG 23

REVISIONS

"A" 20 OCT 23

**STORMWATER
AND SEDIMENT
CONTROL
DETAILS**

C1.2

OF . SHEETS

223223

GOVERNING CODE: 2017 OHIO BUILDING CODE

1. DEAD LOADS

A. TOTAL DEAD LOAD

= 25.0 PSF
1. ROOF LIVE LOADS:

A. MINIMUM ROOF LIVE LOAD

= 20 PSF
3. FLOOR LIVE LOADS:

A. FIRST FLOOR

= 50 PSF
4. ROOF SNOW DESIGN PARAMETERS

A. GROUND SNOW LOAD Pg

= 20.0 PSF

B. FLAT ROOF SNOW LOAD Pf

= 15.4 PSF

C. MINIMUM ROOF DESIGN SNOW LOAD

= 20.0PSF

D. SNOW EXPOSURE FACTOR Ce

= 1.0

E. SNOW LOAD IMPORTANCE FACTOR I

= 1.0

F. THERMAL FACTOR Ct

= 1.1

G. DRIFTING AND UNBALANCED SNOW PER ASCE 7-10

= C
5. WIND DESIGN PARAMETERS

A. ULTIMATE DESIGN WIND SPEED Vult

= 115 MPH

B. NOMINAL DESIGN WIND SPEED Vasd

= 89 MPH

C. RISK CATEGORY

= II

D. WIND EXPOSURE CATEGORY

= C

E. INTERNAL PRESSURE COEFFICIENT

= +/-0.18
6. SEISMIC DESIGN PARAMETERS

A. SEISMIC IMPORTANCE FACTOR = 1.0

B. SEISMIC OCCUPANCY CATEGORY = II

C. MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION AT 0.2 SECOND PERIOD, SS = 11.6%G

D. MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION AT 1.0 SECOND PERIOD, S1 = 6.1%G

E. SITE CLASS = B

F. SDS = 0.124G

G. SD1 = 0.098G

H. SEISMIC DESIGN CATEGORY = B

I. BUILDING SYSTEM:

BEARING WALL SYSTEMS

J. SEISMIC RESISTING:

LIGHT FRAMED WOOD WALLS WITH STRUCTURAL WOOD PANELS.

K. RESPONSE MODIFICATION FACTOR, R:

6.5

L. DESIGN BASE SHEAR:

0.018W

BUILDING DESIGN NOTES:

- A. THE PROPOSED BUILDING IS A RELOCATED MODULAR STRUCTURE NOT ORIGINALLY DESIGNED FOR THE PROVISIONS OF THE 2017 OHIO BUILDING CODE. DERWACHTER & ASSOCIATES, LLC HAS REVIEWED THE ORIGINAL DESIGN DATA AND FOUND THAT THE REQUIREMENTS MEET OR EXCEED THE REQUIREMENTS FOR LOADS SET FORTH BY CHAPTER 16 OF THE CURRENT OHIO CODE. THE INFORMATION BELOW IS THE BASIS OF THIS ASSESSMENT.

ORIGINAL DESIGN FIRM:

SPECIALIZED STRUCTURES INC.
2400 SPRINGFIELD CHURCH ROAD
WILLACOOCHIE, GA 31690

ORIGINAL THIRD PARTY APPROVAL AND INSPECTION AGENCY:

RADCO
5801 BENJAMIN CENTER DRIVE
TAMPA, FL 33634
- B.

ORIGINAL DESIGN

REQUIRED DESIGN

FLOOR LIVE LOAD:

50.0 PSF

50.0 PSF

ROOF LIVE LOAD:

20.0 PSF

20.0 PSF

ROOF SNOW LOAD:

Pg

30.0 PSF

20.0 PSF

Pf

23.1 PSF

22.0 PSF

Ce

1.0

1.0

Is

1.0

1.1

Ct

1.1

1.1

WIND LOAD:

WIND SPEED

110 MPH (SERVICE)

93 MPH (SERVICE)
120 MPH (STRENGTH)

Iw

1.0

N/A

EXPOSURE

C

C

GCPi

0.18

0.18

BASE PRESSURE

28.1 PSF

17.5 PSF

SEISMIC LOAD:

Ie

1.0

1.25

SITE CLASS

D

D

Ss

.537

.116

S1

.285

.061

Sds

.49

.124

Sd1

.34

.098

R

6.5

6.5

Cs

.08

.018

C. BASED UPON THE DRAWINGS PROVIDED DATED 11-13-15 BY SPECIALIZED STRUCTURES INC. AND SINGED AND SEALED BY JAMES E. BRADLEY WITH A PENNSYLVANIA SEAL NUMBER OF 0192214E, IT IS THE OPINION OF DERWACHTER & ASSOCIATES, LLC THAT THE BUILDING DESIGN EXCEEDS THE REQUIREMENTS OF THE CURRENT OHIO BUILDING CODE. THIS EVALUATIONS IS BASED ON A REVIEW OF THE STATED DRAWINGS ONLY. DERWACHTER & ASSOCIATES, LLC HAS NOT MADE ANY INSPECTIONS OF THE EXISTING BUILDING OR REVIEWED ANY MODIFICATIONS (IF ANY) TO THE ORIGINAL DESIGN.
- | SCHEDULE OF SPECIAL INSPECTIONS | | | | | |
|--|-------|-----------------|------|---|--------------------------------------|
| ITEM | REQ'D | INSPECTION TYPE | | REFERENCED STANDARD | OBC REFERENCE |
| | | CONT. | PER. | | |
| MASONRY CONSTRUCTION | | | | | |
| SPECIAL INSPECTION TESTING PER THE QUALITY ASSURANCE REQUIREMENTS OF TNS 402/ACI | X | | X | | |
| | | | X | | |
| | | | X | | |
| | | | X | | |
| CONCRETE CONSTRUCTION | | | | | |
| INSPECT ANCHORS CAST IN CONCRETE | | | X | ACI 318: 17.8.2 | |
| | | | X | ACI 318: CHAPTER 19 AND 26.4.3, 26.4.4 | 1904.1,
1904.2,
1908.2, 1908.3 |
| VERIFY USE OF REQUIRED DESIGN MIX | | | | | |
| PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF CONCRETE | | X | | ASTM C 172, ASTM C 31, ACI 318: 26.4.5, 26.12 | 1908.10 |
| VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES | | | X | ACI 318: 26.4.7 - 26.4.9 | 1908.9 |
| INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED | | | X | ACI 318: 26.10.1 | |
| SOILS | | | | | |
| VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY | | | X | | |
| VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL | | | X | | |
| PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS | | | X | | |
| VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. | | X | | | |
| PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY. | | | X | | |
- REINFORCING FOR CONCRETE:
1. REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60 OR ASTM A706, UNLESS NOTED OTHERWISE.

ALL WELDED REINFORCING BARS SHALL CONFORM TO ASTM A706.

2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 (SHEETS FORM, NOT ROLLED)

3. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:

A. UNFORMED SURFACE IN CONTACT WITH THE GROUND:

3 IN.

B. FORMED SURFACES EXPOSED TO EARTH OR WEATHER:

#6 BARS AND LARGER

2 IN.

#5 BARS AND SMALLER

1 1/2 IN.

C. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:

BEAMS, GIRDERS, AND COLUMNS

1 1/2 IN.

SLABS, WALLS, AND JOISTS

3/4 IN.

#11 BARS AND SMALLER

1 1/2 IN.

#14 AND #18 BARS

1 1/2 IN.

4. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE.

BAR SIZE	CLASS B SPLICE LAP LENGTH (INCHES)	COMPRESSION SPLICE LAP LENGTH (INCHES)	BAR SIZE	CLASS B SPLICE LAP LENGTH (INCHES)	COMPRESSION SPLICE LAP LENGTH (INCHES)
#3	22	12	#8	72	30
#4	29	15	#9	81	34
#5	36	19	#10	89	38
#6	43	23	#11	98	42
#7	63	27			

5. COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS, UNLESS NOTED OTHERWISE.

6. BASE PLATES, ANCHOR RODS, SUPPORT ANGLES, ETC., BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE.
- REINFORCED MASONRY:
1. REINFORCED MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, fm, OF 1500 PSI. MASONRY UNITS SHALL BE NORMAL WEIGHT BLOCK CONFORMING TO ASTM C90. AND SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2150 PSI. MORTAR SHALL CONFORM TO ASTM C270, TYPE S. MINIMUM GROUT COMPRESSIVE STRENGTH SHALL EQUAL OR EXCEED fm, BUT NOT BE LESS THAN 2000 PSI.

2. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.

3. CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE HOT DIPPED GALVANIZED, LADDER TYPE FORMED FROM 9 GAUGE COLD - DRAWN STEEL WIRE COMPLYING WITH ASTM A82. JOINT REINFORCING SHALL BE SPACED AT 16" O.C. VERTICALLY IN ALL MASONRY WALLS AND PIERS. U.N.O. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF VERTICAL CONTROL JOINTS. HORIZONTAL BOND BEAM AND LINTEL REINFORCING SHALL BE CONTINUOUS ACROSS VERTICAL CONTROL JOINTS. JOINT REINFORCING SHALL BE STOPPED EACH SIDE OF VERTICAL CONTROL JOINTS.

4. ALL REINFORCED CELLS, ALL CELLS BELOW GRADE AND ALL CELLS BELOW FINISH FLOOR SHALL BE GROUTED SOLID.

5. AT VERTICAL REINFORCING LOCATIONS, PROVIDE DOWEL FROM FOOTING TO MATCH SIZE AND SPACING OF VERTICAL WALL REINFORCING. DOWELS SHALL BE EMBEDDED INTO THE FOOTING MINIMUM 9" INCHES AND SHALL HAVE A 90 DEGREE STANDARD HOOK.

6. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN 6 VERTICAL. DOWELS MAY BE GROUTED INTO A CELL IN VERTICAL ALIGNMENT, EVEN THOUGH IT IS IN A CELL ADJACENT TO THE VERTICAL WALL REINFORCING.

7. REINFORCING STEEL SHALL BE SECURED IN PLACE BEFORE GROUTING STARTS.

8. ALL REINFORCING LAP SPLICES SHALL BE IN ACCORDANCE WITH THE MASONRY REINFORCING LAP SPLICE LENGTH SCHEDULE. U.N.O. SPLICE VERTICAL SHALL BE WIRED TOGETHER. LAP SPLICES BETWEEN ADJACENT BARS SHALL BE STAGGERED A MINIMUM OF 24 BAR DIAMETERS.

9. VERTICAL BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 96 DIAMETERS OF THE REINFORCING BAR WITH REBAR POSITIONERS. BARS SHALL BE ANCHORED IN PLACE PRIOR TO GROUTING.

10. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4 OF AN INCH FROM THE MASONRY AND NOT LESS THAN ONE BAR DIAMETER BETWEEN BARS.

11. VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 3"x4".

12. GROUT SHALL BE PLACED IN LIFTS NOT TO EXCEED 5 FEET. THE TOTAL HEIGHT OF 8-INCH (NOMINAL) OR LARGER MASONRY TO BE GROUTED PRIOR TO THE ERECTION OF ADDITIONAL MASONRY SHALL NOT EXCEED 24 FEET.

13. GROUTING SHALL BE STOPPED 1 1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT.

14. GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATION. ALL BOLTS, ANCHORS, ETC., INSERTED IN THE WALLS, SHALL BE GROUTED SOLID INTO POSITION. CELLS AT ANCHOR LOCATIONS SHALL BE GROUTED TO MINIMUM 6" ABOVE AND 6" BELOW THE CENTERLINE OF THE ANCHOR.
- | MASONRY REINFORCING LAP SPLICE LENGTH (IN.) | | | | | | |
|---|------------------------------|-----|-----|------------------------|-----|-----|
| BAR SIZE | NUMBER OF REINFORCING LAYERS | | | | | |
| | ONE LAYER | | | TWO LAYERS | | |
| | NOMINAL WALL THICKNESS | | | NOMINAL WALL THICKNESS | | |
| | 8" | 10" | 12" | 8" | 10" | 12" |
| #4 | 25 | 25 | 25 | 31 | 31 | 31 |
| #5 | 31 | 31 | 31 | 48 | 48 | 48 |
| #6 | 57 | 52 | 52 | 98 | 98 | 98 |
| #7 | 79 | 61 | 61 | 177 | 121 | 121 |
| #8 | 112 | 86 | 74 | - | 149 | 149 |
- GENERAL NOTES:
1. ANY CHANGES MADE TO THE DESIGN IDENTIFIED ON THESE DRAWINGS AND/OR ASSOCIATED SPECIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO MAKING ANY MODIFICATIONS TO THE PROJECT. ANY LIABILITY AS A RESULT OF DESIGN MODIFICATIONS, AS WELL AS ANY COSTS ASSOCIATED WITH SUCH MODIFICATIONS, MADE WITHOUT THE WRITTEN APPROVAL OF ENGINEER OF RECORD SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.

2. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS, DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY GUYS, BRACING OR TIEDOWNS THAT MIGHT BE NECESSARY. SUCH MATERIAL IS NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT, AND SHALL REMAIN THE CONTRACTOR'S PROPERTY. THE ENGINEER HAS NO EXPERTISE IN, AND TAKES NO RESPONSIBILITY FOR, CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY DURING CONSTRUCTION. PROCESSING AND/OR APPROVING SUBMITTALS MADE BY THE CONTRACTOR WHICH MAY CONTAIN INFORMATION RELATED TO CONSTRUCTION METHODS OR SAFETY ISSUES, OR PARTICIPATION IN MEETINGS WHERE SUCH ISSUES MIGHT BE DISCUSSED, SHALL NOT BE CONSTRUED AS VOLUNTARY ASSUMPTION BY THE ENGINEER OF ANY RESPONSIBILITY FOR SAFETY PROCEDURES.

3. IT IS SOLELY THE RESPONSIBILITY OF EACH CONTRACTOR TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE ENGINEER IS NOT ENGAGED IN, AND DOES NOT SUPERVISE CONSTRUCTION.

4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
- USE OF THESE DOCUMENTS:
1. THESE DOCUMENTS SHALL NOT BE REPRODUCED IN ANY MANNER FOR THE PRODUCTION OF FABRICATION OR ERECTION SUBMITTALS. REPRODUCTION OF THESE DOCUMENTS IN THAT MANNER CONSTITUTES COPYRIGHT INFRINGEMENT. ANY DOCUMENTS SUBMITTED FOR REVIEW THAT CONTAIN ANY IMAGE, SKETCH, DETAIL, ETC. FROM THESE DOCUMENTS WILL BE REJECTED.

2. ELECTRONIC VERSIONS OF THESE DOCUMENTS ARE THE PROPERTY OF DERWACHTER & ASSOCIATES, LLC. ELECTRONIC OR CAD FILES WILL NOT BE MADE AVAILABLE FOR CONSTRUCTION PURPOSES.
- FOUNDATIONS - GENERAL:
1. THE FOUNDATION HAS BEEN DESIGNED BASED UPON AN ASSUMED BEARING CAPACITY.

2. BOTTOM OF FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING A NET ALLOWABLE BEARING PRESSURE OF 1.5 KSF UNDER SERVICE LIVE AND DEAD LOAD.

3. FOOTINGS MAY BE POURED INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.

4. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.

5. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 36" BELOW LOWEST ADJACENT GRADE.

6. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE AND CURED.

7. WHERE FOUNDATION WALLS ARE TO HAVE EARTH PLACED ON EACH SIDE, PLACE FILL SIMULTANEOUSLY SO AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF THE WALL.

8. FOUNDATION CONCRETE SHALL HAVE REACHED A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI BEFORE BEING LOADED. STRENGTHS SHALL BE VERIFIED BY TEST.
- M

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Phone: (614) 875-1689
Fax: (614) 875-7086
www.mcknightgroup.com

D

DERWACHTER & ASSOCIATES, LLC

8275 Milford Dr.
Zanesville, OH 43701

STATE OF OHIO

MATTHEW D DERWACHTER

E-68641

REGISTERED PROFESSIONAL ENGINEER

01-08-2023

Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.

Modular Building Addition for:

SHEPHERD CHURCH

OF THE NAZARENE

425 S. HAMILTON ROAD

GAHANNA, OH 43230

DRAWING	DATE
<input type="checkbox"/> REVIEW SET	11 JUL 23
<input checked="" type="checkbox"/> Permit/Bid Set	1 AUG. 23

REVISIONS

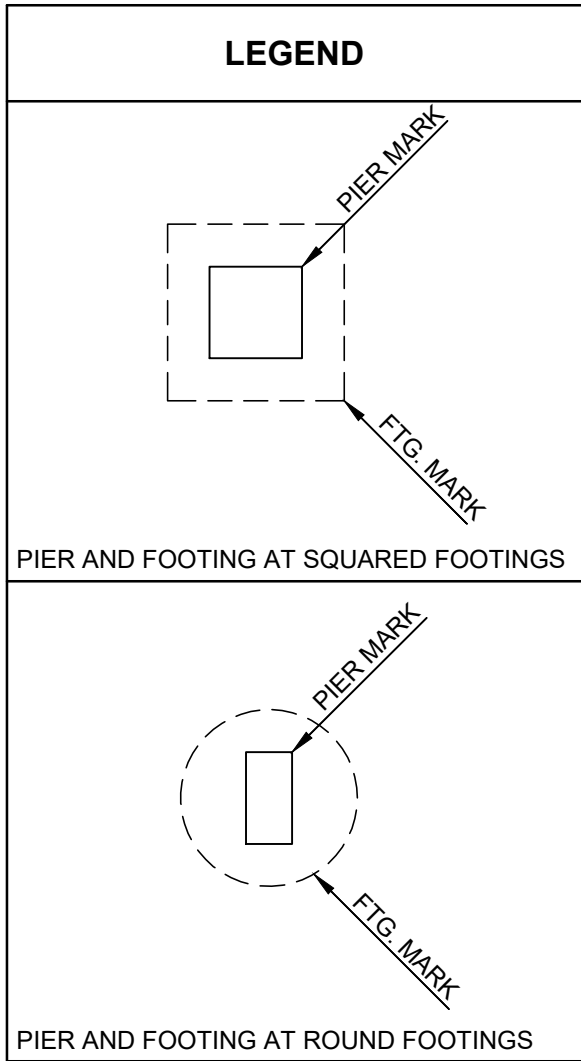
STRUCTURAL NOTES

S0.1
OF . SHEETS
223223

Plot Date: 8/1/2023 1:28:03 PM shepherd church - struct.dwg Larry Perks

01 FOUNDATION PLAN

SCALE: 3/8" = 1'-0"



PIER SCHEDULE		
MARK	SIZE	REINFORCING *
P1	0'-8" x 1'-4" (CMU)	(2) #5 VERTICAL BARS w/ #4 TIES
P2	1'-4" x 1'-4" (CMU)	(4) #5 VERTICAL BARS w/ #4 TIES

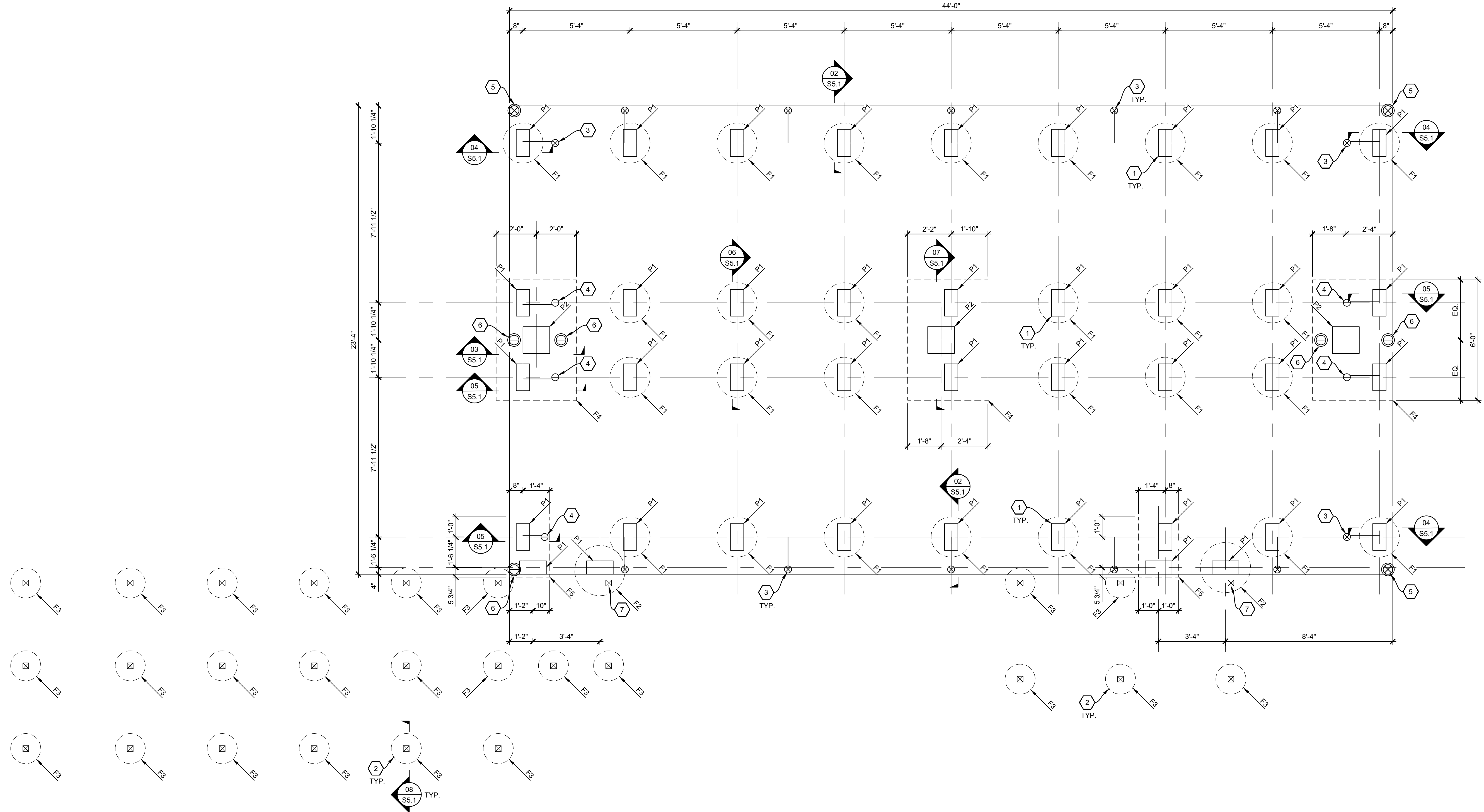
COLUMN FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F1	2'-0"Ø x 3'-0"	N/A
F2	2'-6"Ø x 3'-0"	N/A
F3	1'-4"Ø x 3'-0"	N/A
F4	4'-0" x 6'-0" x 3'-0"	#5 BARS AT 12"O.C., E.W. BOTTOM
F5	2'-0" x 3'-0" x 3'-0"	#5 BARS AT 12"O.C., E.W. BOTTOM

* SEE DETAIL **S5.1-06** FOR PLAN LAYOUT AND REINFORCING PLACEMENT.

KEYED NOTES cont.	
5	⊗ LOCATION OF VERTICAL UPLIFT. PROVIDE HELICAL ANCHOR & STRAPPING ANCHORAGE AT ANCHOR LOCATIONS INDICATED ON PLAN. HELICAL ANCHOR TO BE DOUBLE DISC, 3/4"Ø ROD x 36" WITH 6"Ø DISCS (MINUTE MAN #4636 DH DOUBLE DISC TENSION HEAD ANCHOR OR EQUAL). GALVANIZED STEEL STRAPPING AND FASTENING PER MODULAR BLDG. MFR.
6	⊗ LOCATION OF VERTICAL UPLIFT. PROVIDE EMBED AND STRAPPING ANCHORAGE AT ANCHOR LOCATIONS INDICATED ON PLAN. EMBED TO BE 1/2"x10" STEEL "J" ANCHOR (MINUTE MAN #210 JDH SWIVEL HEAD ANCHOR OR EQUAL) EMBEDDED IN TOP OF CONCRETE FOOTING. GALVANIZED STEEL STRAPPING AND FASTENING PER MODULAR BLDG. MFR.
7	WHERE RAMP / STAIR POST OCCURS AT MODULAR PIER FOOTING, ANCHOR POST TO TOP OF FOOTING WITH SIMPSON POST BASE AND 1/2"Ø WEDGE ANCHOR.

KEYED NOTES	
1	CMU SUPPORT PIER ON CONCRETE FOOTING. SEE SCHEDULES.
2	FOOTING AT EXTERIOR DECK, STAIRS AND RAMP POSTS. COORDINATE LOCATION WITH ARCH. SEE SCHEDULE FOR FOOTING REINFORCING.
3	⊗ LOCATION OF GROUND ANCHOR FOR OVER TURNING & SLIDING. PROVIDE HELICAL ANCHOR & STRAPPING ANCHORAGE. HELICAL ANCHOR TO BE DOUBLE DISC, 3/4"Ø ROD x 36" WITH 6"Ø DISCS (MINUTE MAN #4636 DH DOUBLE DISC TENSION HEAD ANCHOR OR EQUAL). ANCHOR TO BE PLACED AND 1 1/4" GALVANIZED STEEL STRAPPING PLACED OVER BEAM ABOVE, OR FASTENED TO WELDED ANCHOR ON BEAM ABOVE, WINCH TIGHT AND LOCK. COORDINATE WITH MODULAR BLDG. DRAWINGS.
4	⊗ LOCATION OF GROUND ANCHOR FOR OVER TURNING & SLIDING. PROVIDE EMBED AND STRAPPING ANCHORAGE AT ANCHOR LOCATIONS INDICATED ON PLAN. EMBED TO BE 1/2"x10" STEEL "J" ANCHOR (MINUTE MAN #210 JDH SWIVEL HEAD ANCHOR OR EQUAL) EMBEDDED IN TOP OF CONCRETE FOOTING AND 1 1/4" GALVANIZED STEEL STRAPPING PLACED OVER BEAM ABOVE, OR FASTENED TO WELDED ANCHOR ON BEAM ABOVE, WINCH TIGHT AND LOCK. COORDINATE WITH MODULAR BLDG. DRAWINGS.

FOUNDATION PLAN NOTES	
A	SEE SHEET S0.1 FOR GENERAL NOTES.
B	ALL ELEVATIONS ARE RELATIVE TO A FINISH FIRST FLOOR ELEVATION OF 100'-0" (REFERENCE ONLY).
C	COORDINATE DOOR OPENINGS AND STOOP LOCATIONS WITH ARCH. DRAWINGS.
D	SEE DETAIL S5.1-01 FOR TYPICAL REINFORCING DETAILING.
E	LOCATION OF HOLD DOWN ANCHORS AT OVERTURNING, SLIDING, AND UPLIFT LOCATIONS TO BE COORDINATED WITH FINAL MODULAR MANUFACTURER'S DRAWINGS.



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3351 McDowell Road Phone: (614) 875-1689
P.O. Box 379 Fax: (614) 875-7086
Grove City, Ohio 43123 www.mcknightgroup.com

DERWACTER & ASSOCIATES, LLC
8275 Milford Dr.
Zanesville, OH 43701



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Modular Building Addition for:
SHEPHERD CHURCH OF THE NAZARENE
425 S. HAMILTON ROAD
GAHANNA, OH 43230

DRAWING	DATE
<input type="checkbox"/> REVIEW SET	11 JUL 23
<input checked="" type="checkbox"/> Permit/Bid Set	1 AUG. 23

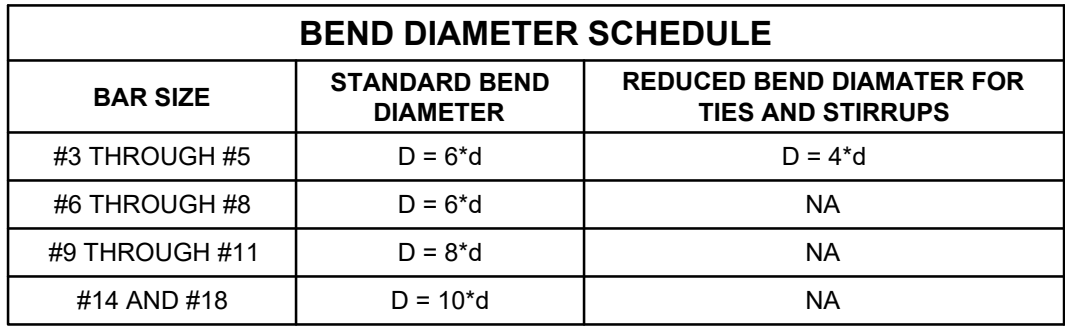
REVISIONS

FOUNDATION PLAN

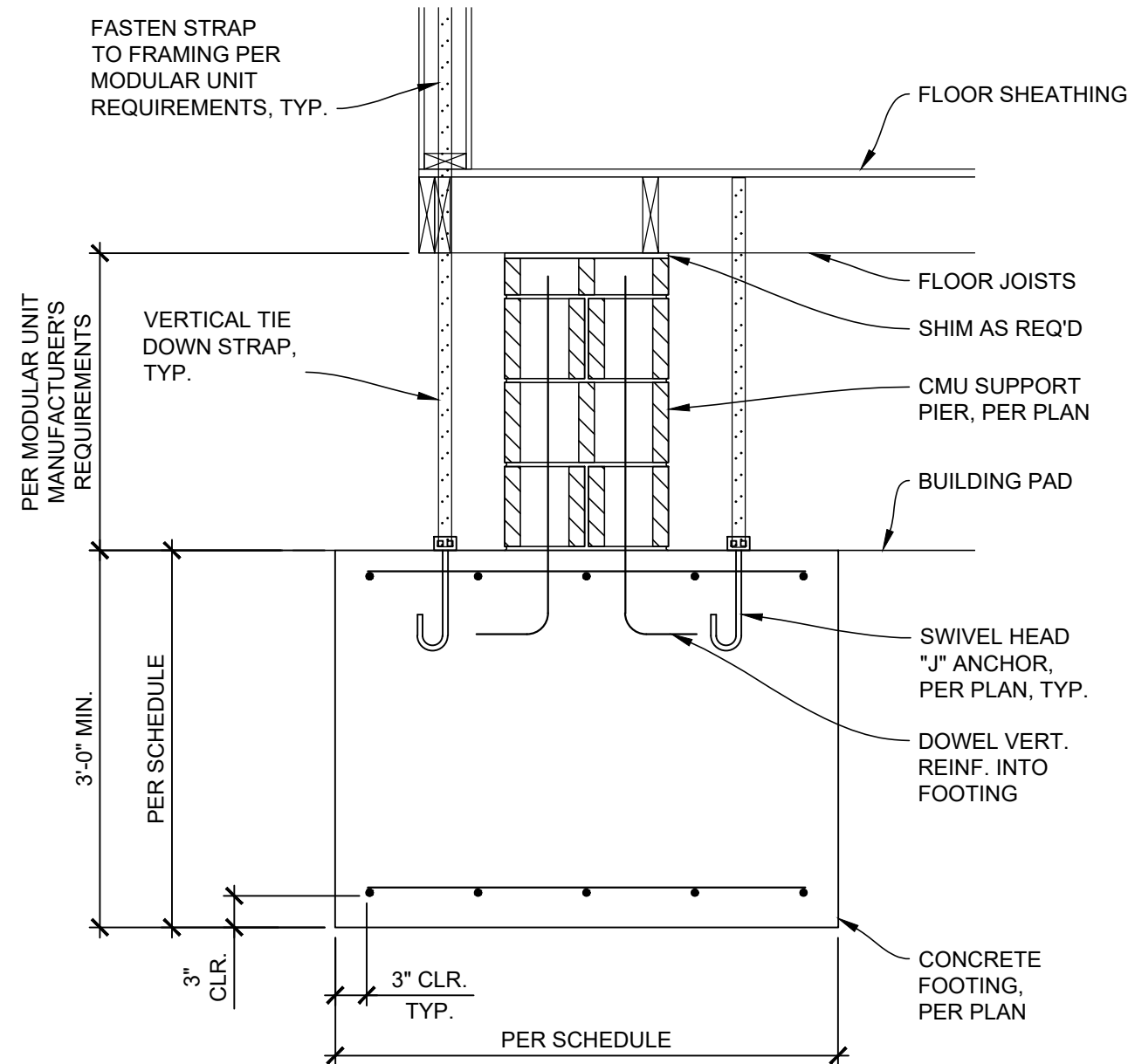
S1.1

OF . SHEETS

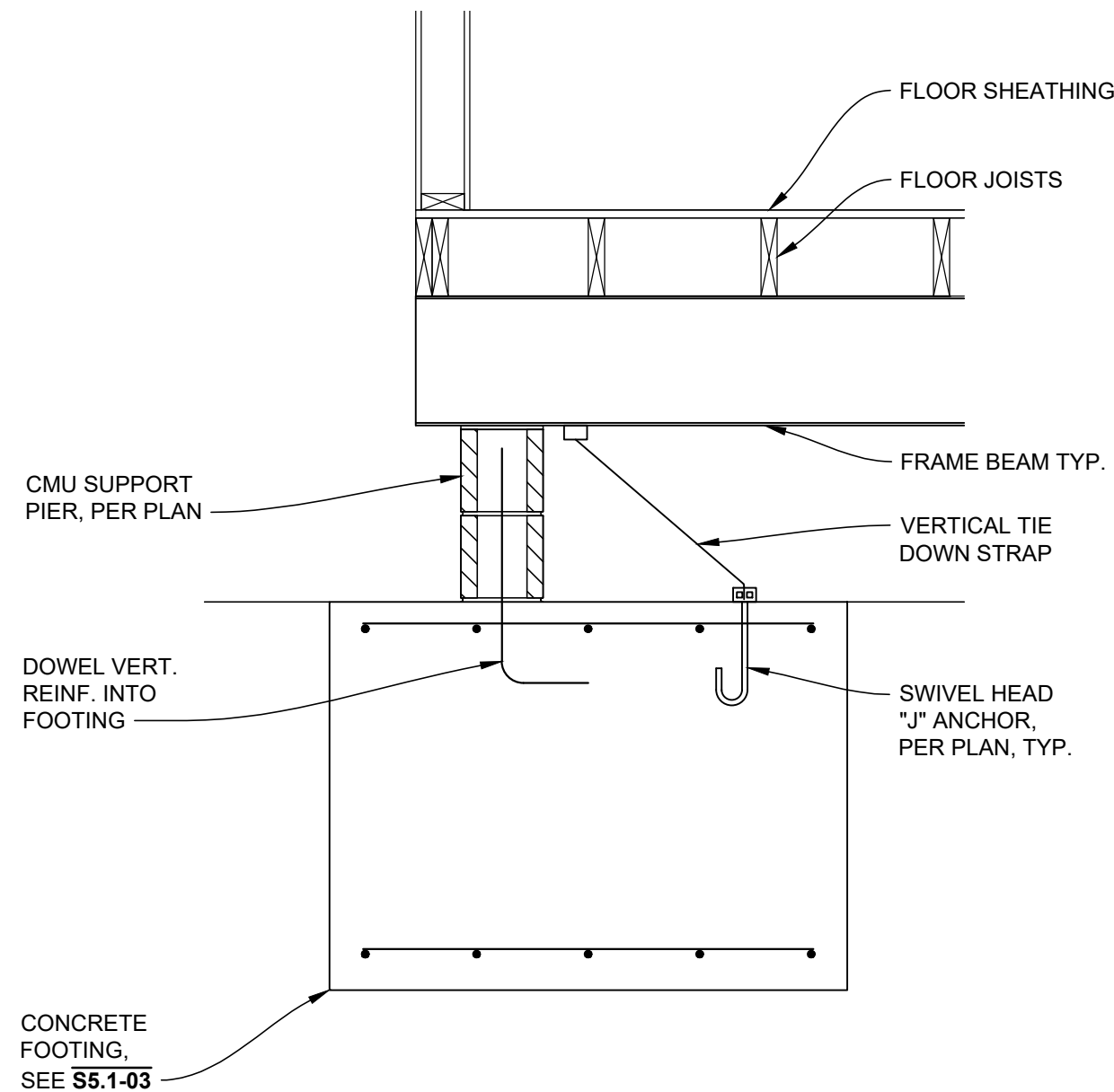
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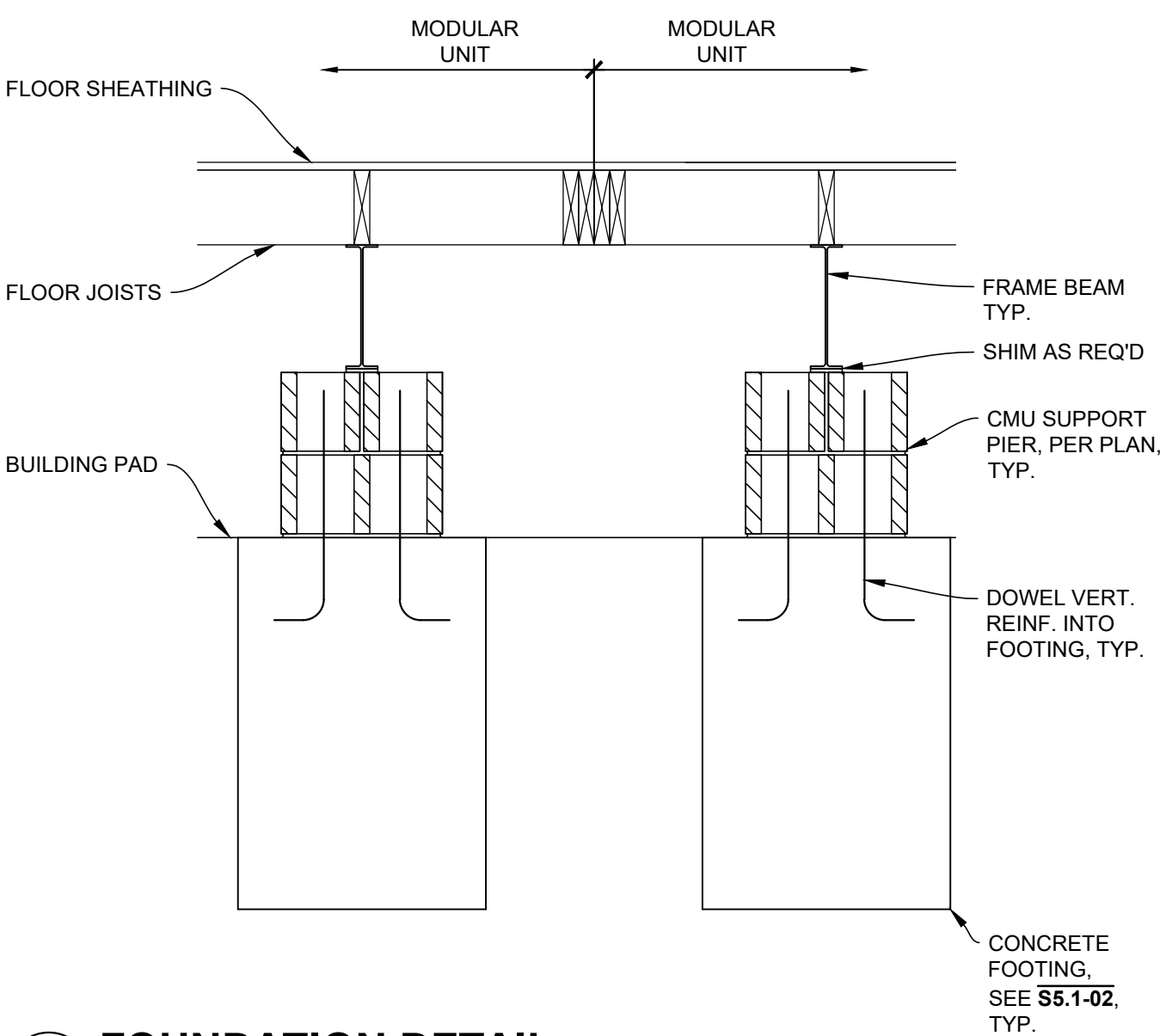
02 FOUNDATION DETAIL
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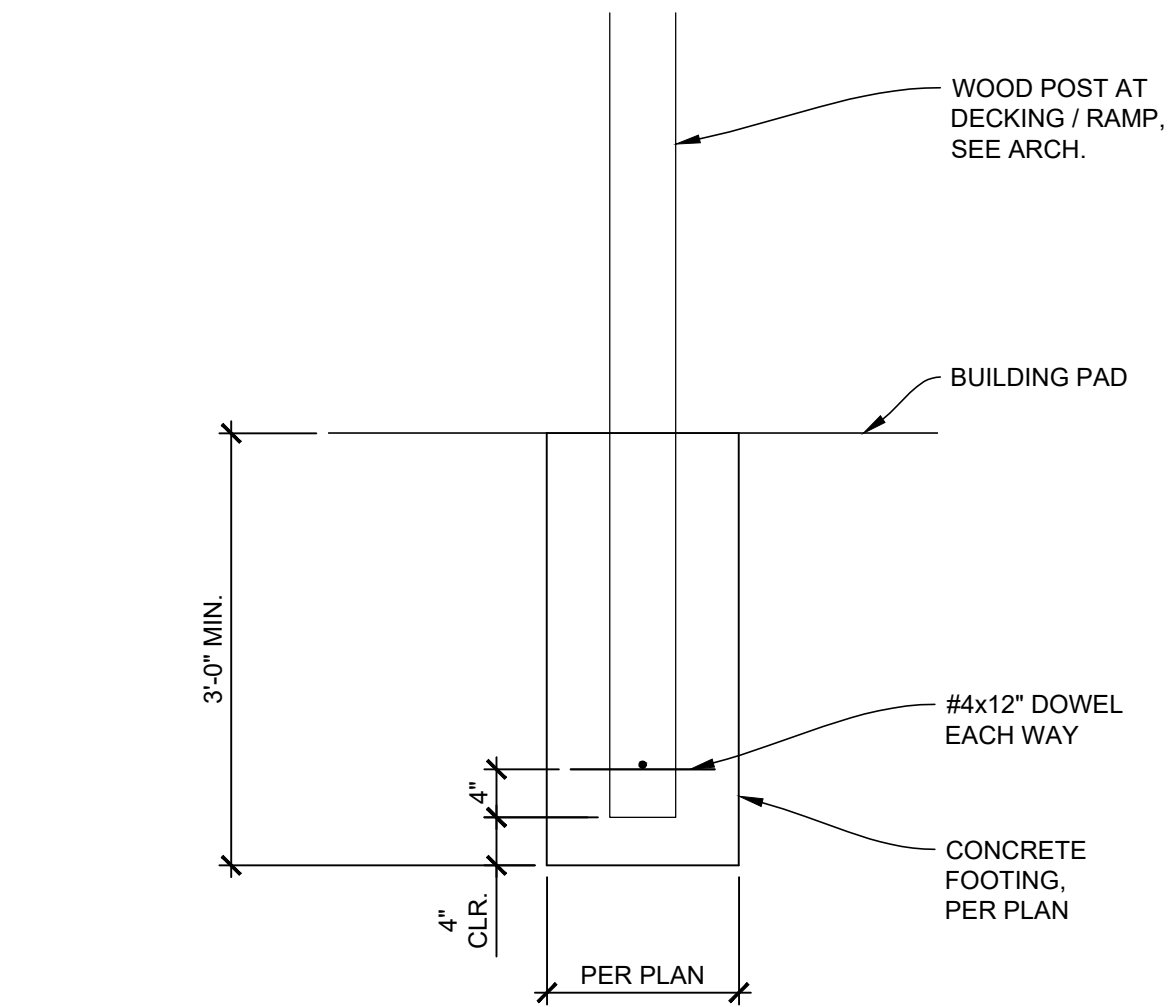
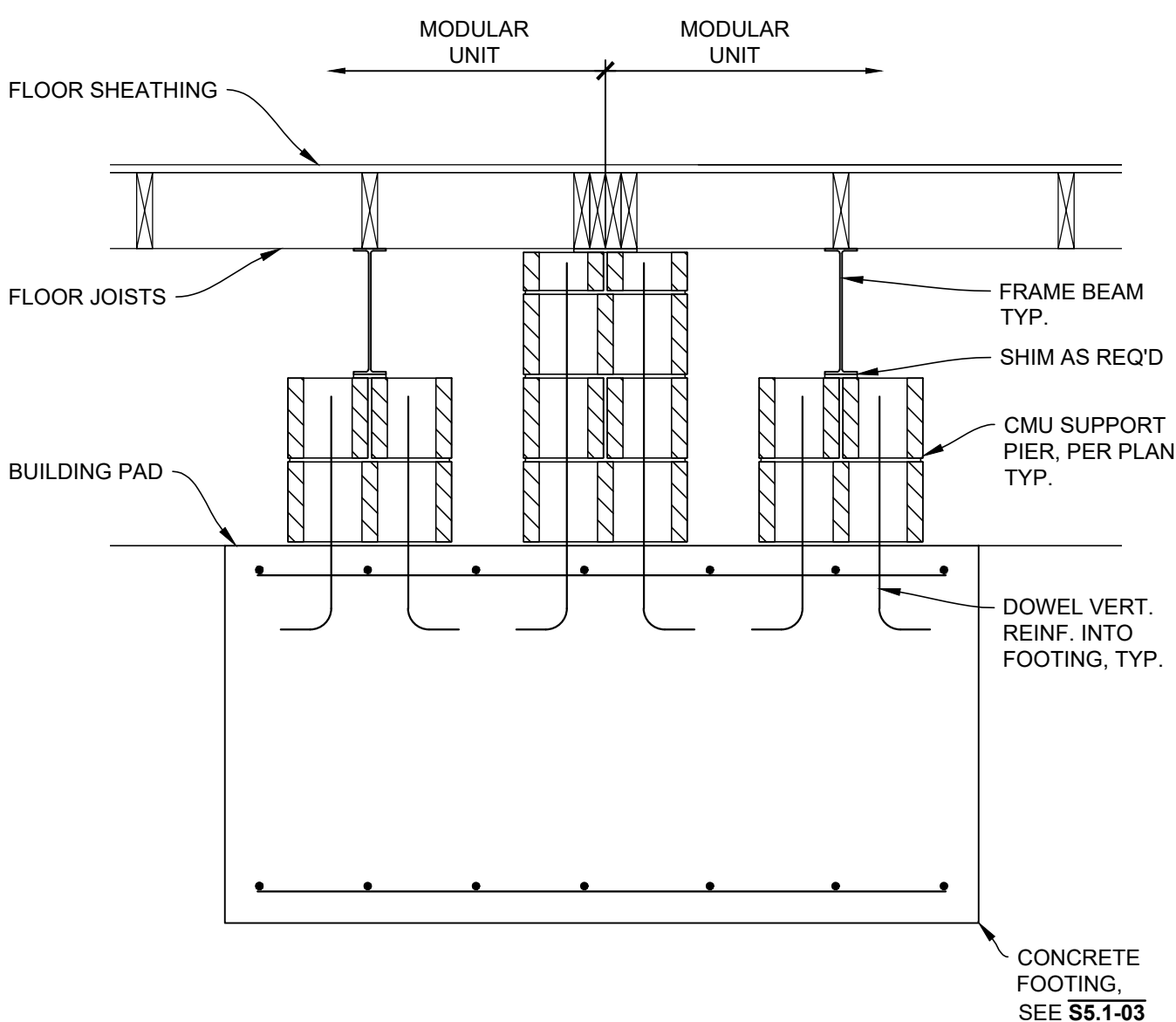
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06 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



08 FOUNDATION DETAIL
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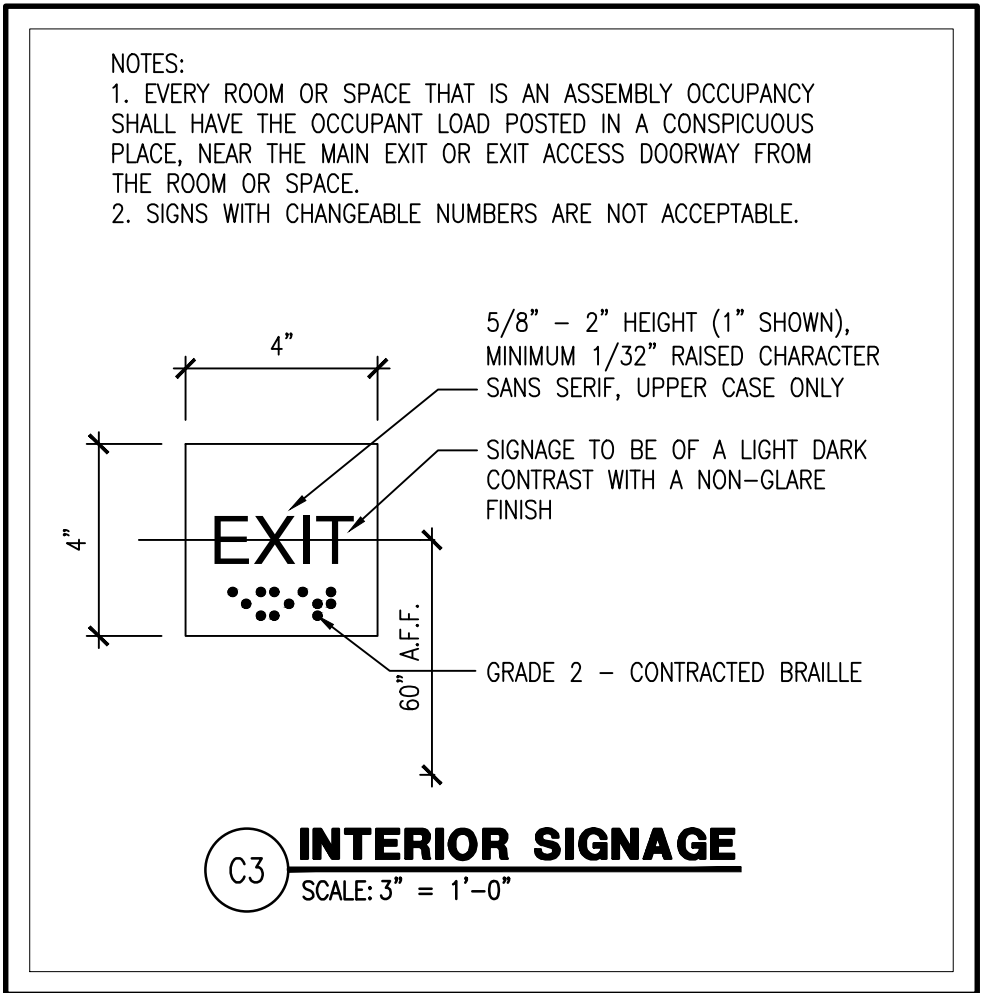


CODE ANALYSIS SUMMARY - 2017 OBC	
USE GROUP/CONSTRUCTION TYPE	
PREVIOUS USE GROUP(S): B (ADULT CLASSROOM)	EXISTING CONSTRUCTION TYPE: V-B
PROPOSED USE GROUP(S): E	
FIRE AREA TABULATIONS	
BUILDING FOOTPRINT = 1,026 SQ. FT. (937 SQ. FT. INTERIOR)	
ALLOWABLE AREA PER TABLE 506.2 FOR "E"/V-B -NON SPRINKLED = 9,500 SQ. FT.	
ACTUAL BUILDING AREA IS LESS THAN ALLOWABLE: 1,026 SQ. FT. < 9,500 SQ. FT.(PASSES)	
HEIGHT TABULATIONS	
ALLOWABLE HEIGHT PER TABLE 504.3 OBC = 40'-0"	
ALLOWABLE STORIES PER TABLE 504.4 OBC (E/V-B) = 1 STORY	
ACTUAL MAX. HEIGHT = ±30'-0" @ MODULAR UNIT RIDGE	
ACTUAL NO. OF STORIES = ONE (1) STORY ABOVE GRADE	
OCCUPANT LOAD	
CALCULATED OCCUPANT LOAD PER TABLE 1004.1.2 OBC = MAXIMUM 46 OCCUPANTS	
TOTAL EGRESS PROVIDED = 340 TOTAL EGRESS CAPACITY (2-36" DOORS)	
FIRE RESISTANCE RATINGS (SEE PLAN FOR DETAILS)	
FIRE RATED PARTITIONS ARE NOT REQUIRED FOR THIS BUILDING. EXTERIOR WALL NEAREST TO EXISTING SCHOOL BUILDING IS IN EXCESS OF 40'-0" (±52'-6") SO THIS TEMPORARY STRUCTURE DOES NOT REQUIRE FIRE RATED EXTERIOR WALLS. EXISTING SCHOOL BUILDING IS OF TYPE III-B, NS CONSTRUCTION.	
SPRINKLER REQUIREMENTS	
A FIRE SUPPRESSION SYSTEM IS NOT REQUIRED IN THIS BUILDING OR IN NEARBY SCHOOL BUILDING..	
APPLICABLE CODES	
2017 OHIO BUILDING CODE (OBC)	2017 OHIO CHAPTER 11 AND ICC/ANSI A117.1-2009 ACCESSIBILITY CODE
2017 OHIO MECHANICAL CODE (MMC)	2015 INTERNATIONAL FUEL GAS CODE
2017 OHIO PLUMBING CODE (MPC)	2017 OBC CHAPTER 27 (ELECTRIC) AND NEC 2017
2015 INTERNATIONAL ENERGY CONSERVATION CODE	2017 OHIO FIRE CODE (FC) W/ 2019 AMMENDMENTS
2015 OHIO ENERGY CODE (MENC)	
DESIGN LOADS	
1. ASSUMED SOIL BEARING PRESSURE = 1,500 PSF.	
2. SEE STRUCTURAL DRAWINGS FOR FOUNDATION DESIGN FOR SOIL CONDITIONS.	
3. SEE STRUCTURAL DRAWINGS FOR CONVENTIONAL FRAMING DESIGN LOADS.	

DESIGN LOADS.	
1. SOIL BEARING 1,500 PSF. SOIL BEARING VALUE TO BE CONFIRMED ON SITE BY THE GENERAL CONTRACTOR (SEE STRUCTURAL DRAWINGS FOR ADDITIONAL LOAD INFORMATION)	
2. ROOF LOADS:	
A. SNOW 20 PSF	
B. WIND 93 MPH (SERVICE) 120 MPH (STRENGTH)	
3. LIVE LOADS:	
A. EDUCATIONAL	
1. CLASSROOMS 40 PSF	
B. EXTERIOR STAIRWAYS & EXITWAYS 100 PSF	
1. LANDINGS	
a. 100 PSF LIVE	
b. 300 LB. CONCENTRATED LOAD	
2. EXITWAYS 100 PSF	
C. GUARDS/KNEEWALLS IMPACT LOAD 200 LB.	
4. WIND LOAD: BASIC WIND SPEED = 90 MPH-EXPOSURE "C", RISK CATEGORY II	
5. EARTHQUAKE DESIGN DATA: (SEE STRUCTURAL DRAWINGS SHEET S0.1)	
(SPECIAL NOTE: SEISMIC DESIGN DOES NOT GOVERN- GOVERNING FACTOR IS WIND).	

PLUMBING CALCULATION - 2017 OPC					
2017 OPC TABLE 403.1: MIN. NUMBER OF REQ. PLUMBING FIXTURES					
	WATER CLOSETS		LAVATORIES	DRINKING FOUNTAINS	OTHER
	MALE	FEMALE			
EDUCATION USE (E) (INCL. EXISTING) (387 EXISTING + 46 PROPOSED = 433 OCC.)	1 PER 50	1 PER 50	1 PER 50	1 PER 100	1 SERVICE SINK
433 OCCUPANT LOAD (E)	4.34	4.34	8.66 (4.34 EA)	4.33 (5)	
REQUIRED NUMBER OF FIXTURES:	*4.34(5)	4.34 (5)	8.66 9 (5 EA)	4.33 (5)	1
TOTAL REQUIRED FIXTURES:	8 TOILETS 76 URINALS	14	23 (MIN. 5 EA)	**6	1
TOTAL PROVIDE FIXTURES IN FACILITY:					

NOTE: ALL PLUMBING FIXTURES ARE EXISTING AND ARE LOCATED IN THE EXIST. SCHOOL BUILDING LESS THAN 150'-0" FROM MODULAR UNITS.
* NOTE: OPC 405.3.5 ALLOWS 50% OF REQUIRED TOILETS TO BE SUBSTITUTED BY URINALS.
** THREE (E) HI-LOW ELECTRIC WATER COOLERS EQUALS 6 DRINKING FOUNTAINS.



- MODULAR UNIT NOTES**
- FOLLOWING ARE NOTES ABOUT THE USED HACC, 24'x44', MANUFACTURED MODULAR UNIT (FOR ADDITIONAL INFORMATION, REFER TO SUPPLEMENTAL INFORMATION AT THE END OF THE SET):
- OUTRIGGER FRAME DESIGN
 - DETACHABLE HITCHES
 - NYLON IMPREGNATED BOTTOM BOARD
 - 2X8 FLOOR JOISTS @ 16" O.C., W/5/8" T&G PLYWOOD DECKING, COVERED W/ 1/8" VINYL COMPOSITION TILE
 - 2X6 WOOD EXTERIOR STUDS
 - 2X4 WOOD INTERIOR STUDS
 - 1/2" VINYL COVERED GYPSUM WALLBOARD
 - GROUND SNOW LOAD: 30 PSF
 - TRUSS TYPE: BOX
 - TRUSS SPACING: 24" O.C.
 - FR-DECK
 - 45 MIL BLACK EPDM
 - CEILING IS 1/2" PRE-FINISHED C-SPRAY WITH ROSETTES, SPLINES
 - CEILING HEIGHT: 8'-0"
 - MAINLINE RIDGEBEAM
 - TWO (2) 100A ELECTRIC PANELS
 - (16) SURFACE MOUNTED FLOURESCENT LIGHTS
 - (2) BLACK PORCH LIGHTS
 - (2) COMBO LIGHTED EXIT SIGNS/EMERGENCY LIGHTS WITH BATTERY BACKUP
 - (6) EMPTY 2X4 JUNCTION BOXES W/ 3/4" CONDUIT STUBS (ALL ALARM DEVICES AND WIRING BY OTHERS). WIRE TO BE 12-2 ROMEX.
 - (2) OCCUPANCY SENSORS
 - 1 - 3 1/2 TON WALL MOUNT HEATING UNIT W/ GAS HEAT
 - PROGRAMMABLE THERMOSTAT
 - FIBERGLASS SUPPLY AND RETURN DUCTS
 - 2X4 PLENUM WALL
 - HARDI-PANEL SIDING OVER HOUSE WRAP
 - HARDI PANEL MANSARD
 - (2) 36X80 STEEL DOOR W/10 VB 20 GA DOOR AND 18 GA FRAME. STANDARD CLOSER AND PANIC HARDWARE W/ LEVER HANDLE INCLUDED
 - R-30C FLOOR INSULATION
 - R-19 WALL INSULATION
 - R-38 ROOF INSULATION

- GENERAL PLAN NOTES**
- SEE THIS SHEET AND "S" SHEETS FOR BUILDING DESIGN LOADS. ALSO REFER TO SUPPLEMENTAL MANUFACTURERS SET FOR ADDITIONAL STRUCTURAL INFORMATION.
 - ALL EXTERIOR WOOD FRAMING IS TO BE PRESSURE TREATED LUMBER AND RATED FOR EXTERIOR USE OR GROUND CONTACT DEPENDING ON ITS LOCATION.
 - SCHOOL IS RESPONSIBLE TO PROVIDE ALL APPLICABLE SIGNAGE IN COMPLIANCE WITH ANSI A117.1 GUIDELINES.
 - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION PERTAINING TO A SPECIFIC ITEM OR MATERIAL.
 - REFER TO SUPPLEMENTAL MANUFACTURERS SET FOR ADDITIONAL MODULAR UNIT INFORMATION INCLUDING, BUT NOT LIMITED TO ELEVATIONS, BUILDING SECTION, MECHANICAL, ETC. FOR COORDINATION WITH THESE DRAWINGS.
- PLAN KEYED NOTES**
- NOTE: NOT ALL NOTES MAY APPLY TO THIS SHEET.
- 1 1/2" DIA. STL. PIPE HANDRAIL, MTD. W/ CNTR. @2'-10" A.F.F..
 - TOP OF GUARD RAIL TO BE 42" ABOVE FINISH FLOOR.
 - 4" CONCRETE SLAB-ON-GRADE POURED FOR APPROACHES TO STAIRS AND RAMP AS SHOWN.
 - 4X4 PRESSURE TREATED (PRT) WOOD POST, TYPICAL (SEE STRUCTURAL DRAWINGS FOR ANCHORING DETAILS).
 - HC ENTRANCE RAMP CREATED WITH PRT WOOD AT A MAX. 1:12 SLOPE UP TO MODULAR UNIT ENTRY.
 - WOOD PLATFORM AT THE TOP OF STAIRS AND RAMP CONSTRUCTED USING 2X PRT FRAMING AND 2X6 PRT DECKING (SEE STRUCTURAL DRAWINGS AND SHEET A701).
 - INFORMATION FOR THIS SECTION OR ELEVATION IS LOCATED IN THE SUPPLEMENTAL DRAWINGS INCLUDED WITH THIS SUBMISSION.
 - LOCATION OF BRaille EXIT SIGNAGE (SEE DETAIL C3/A101).
 - C&T-IN-PLACE SLOPED CONCRETE APPROACH RAMP AT A MAX. 1:12 SLOPE UP TO WOOD RAMP. SEE DETAILS ON SHEET A701.
 - HVAC UNIT SUPPLIED WITH MODULAR. INDIVIDUAL TRADES TO MAKE CONNECTIONS TO THE UNIT FROM THE NEARBY EXISTING SCHOOL BUILDING FOR GAS LINE, ELECTRIC, AND FIRE ALARM. SEE MECHANICAL SHEETS AND SUPPLEMENTAL MODULAR UNIT DRAWINGS FOR MORE INFORMATION.
 - PROPOSED GAS LINE LOCATION FOR UNIT.
 - FIRE EXTINGUISHER, WALL BRACKET MOUNTED.
 - FIELD INSTALLED WOOD COLUMN (SEE SUPPLEMENTAL DRAWINGS FOR DETAILS).

The McKnight Group
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3354 McDowell Road
P.O. Box 370
Grove City, Ohio 43123

Phone: (614) 875-1689
Fax: (614) 875-7006
www.mcknightgroup.com

PHILIP J. TIPTON, LICENSE #13225
EXPIRATION DATE 12/31/2023

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SHEPERD CHURCH OF THE NAZARENE

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Modular Building Addition for:

DRAWING **DATE**

☐ REVIEW SET 11 JUL 23

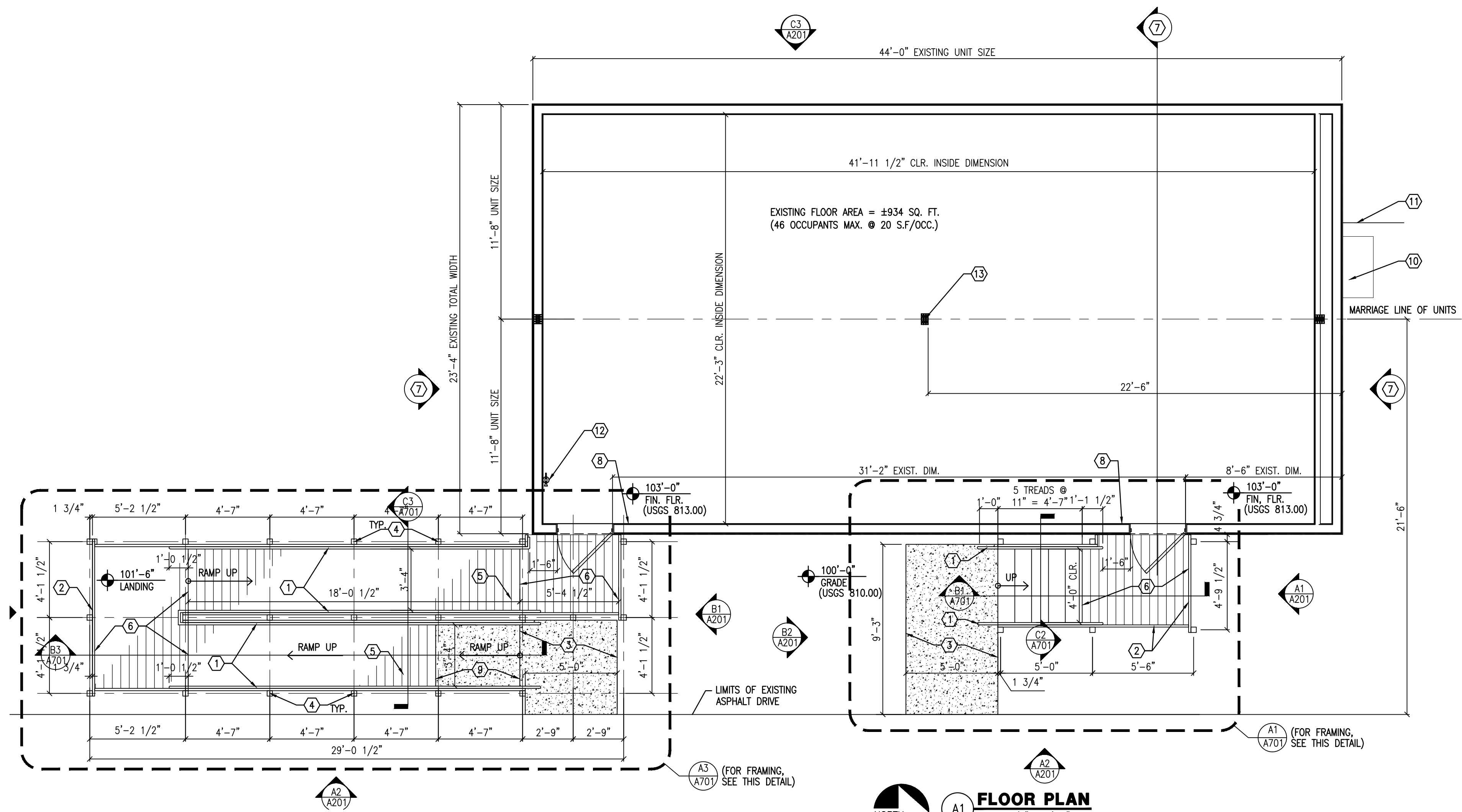
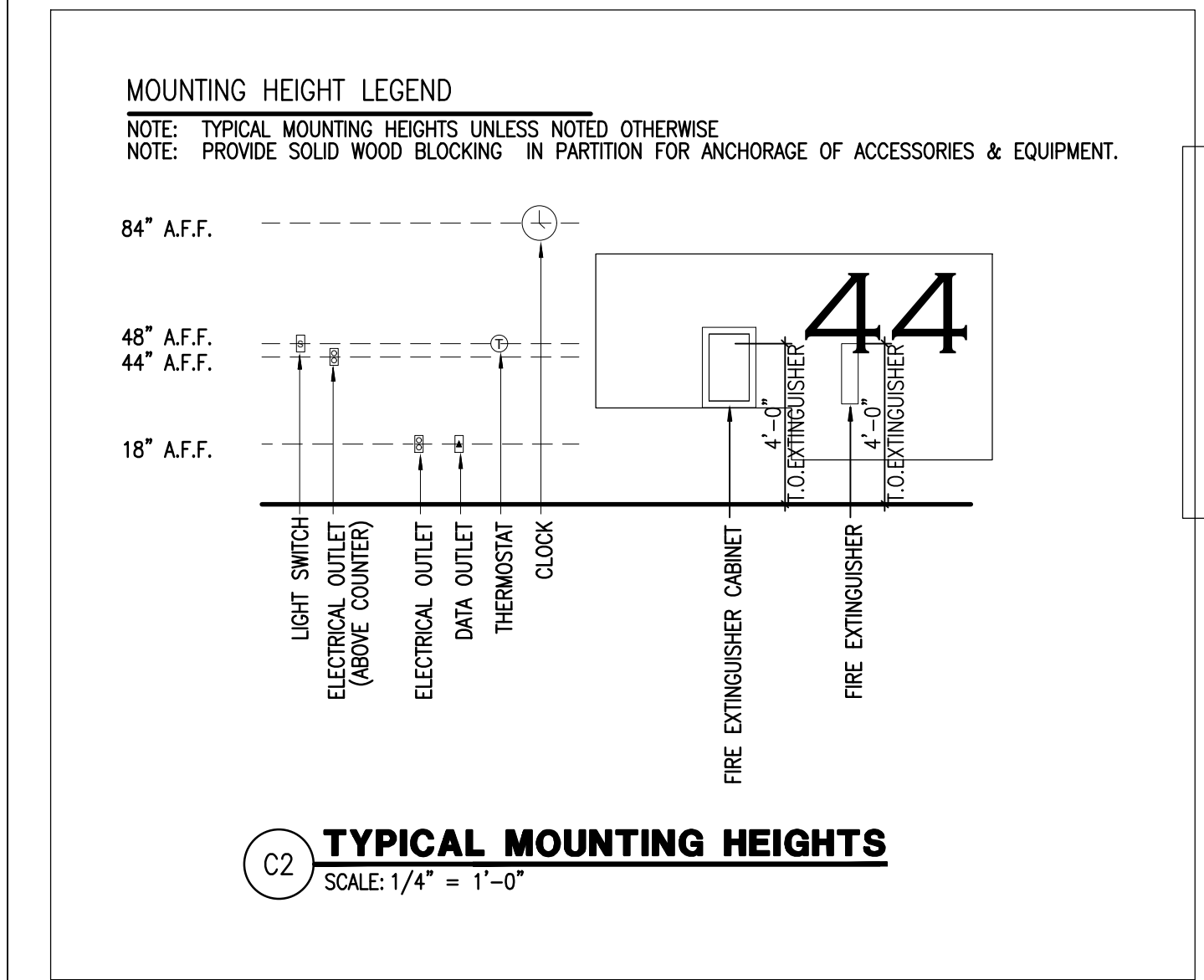
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REVISIONS

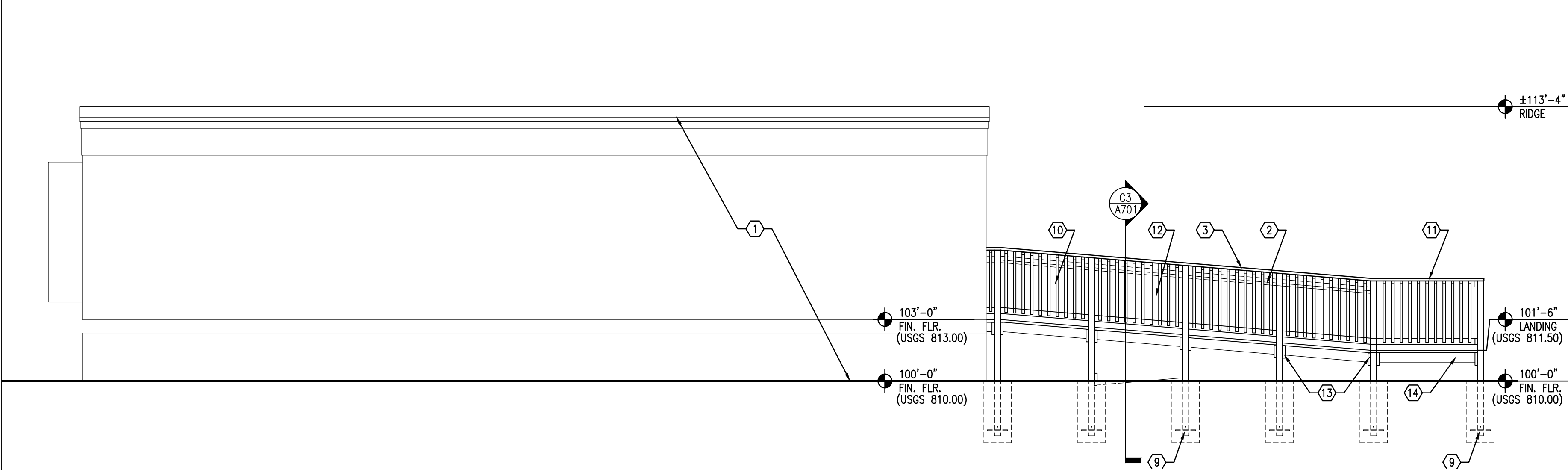
FLOOR PLAN, SCHEDULES & NOTES

A101
OF . SHEETS

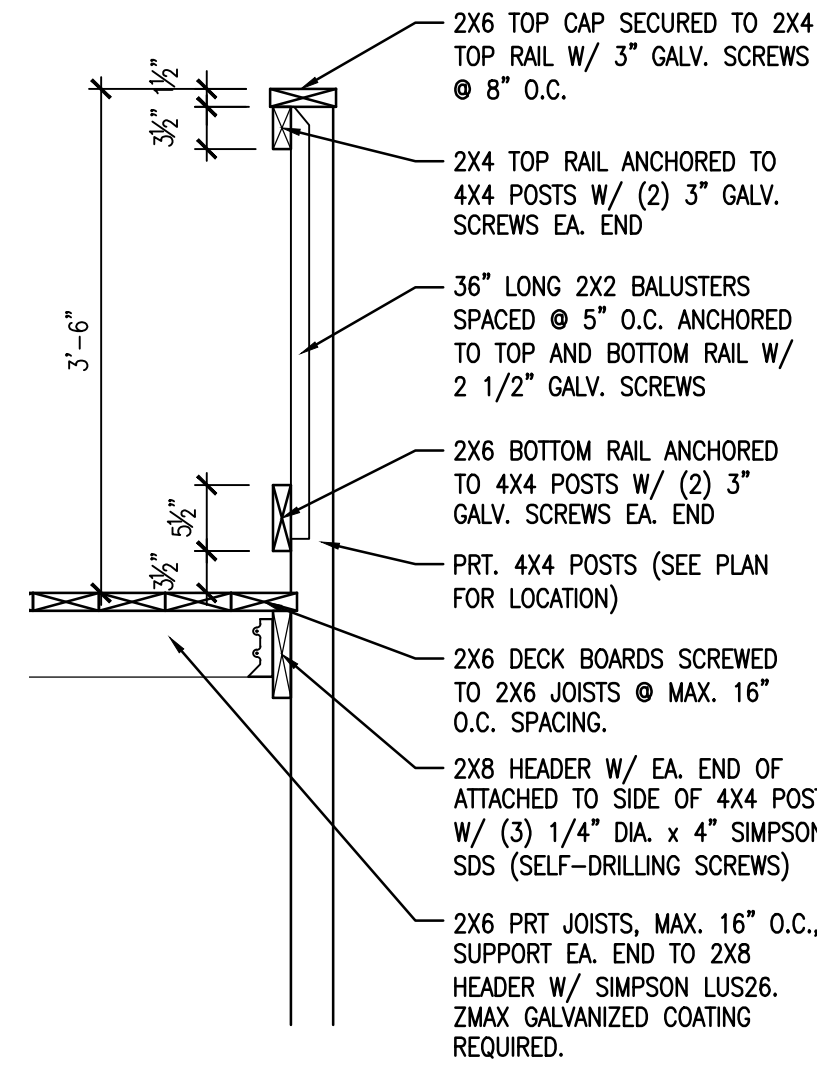
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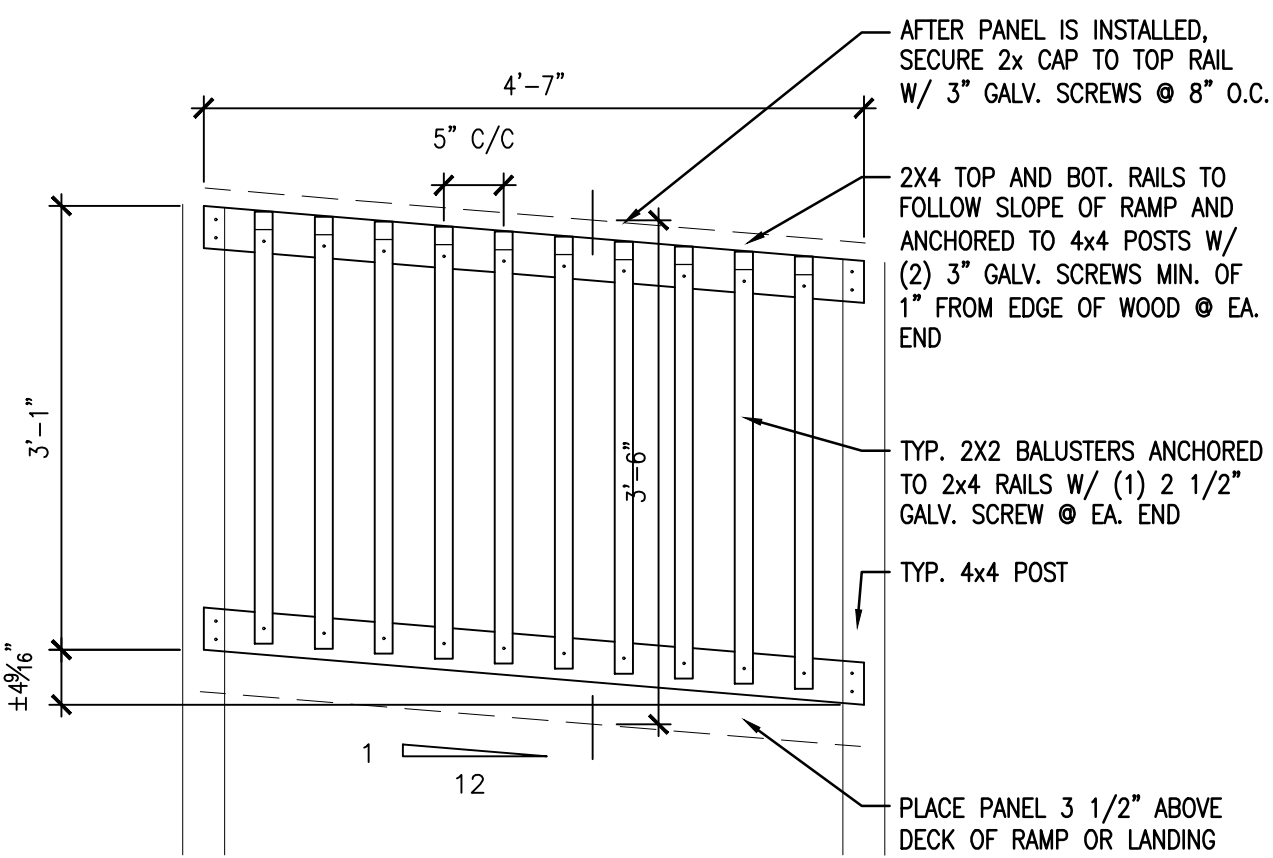
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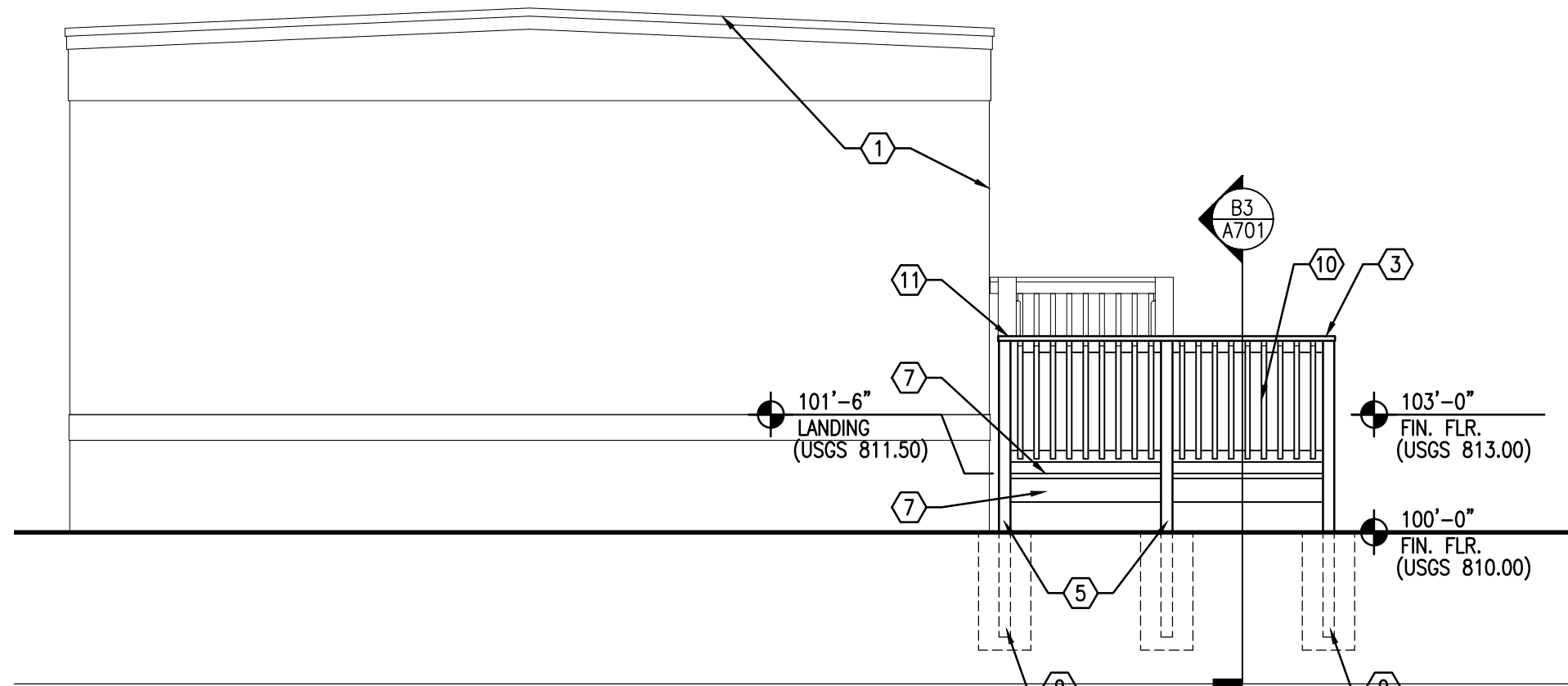
C3 **WEST ELEVATION**
SCALE: 1/4" = 1'-0"



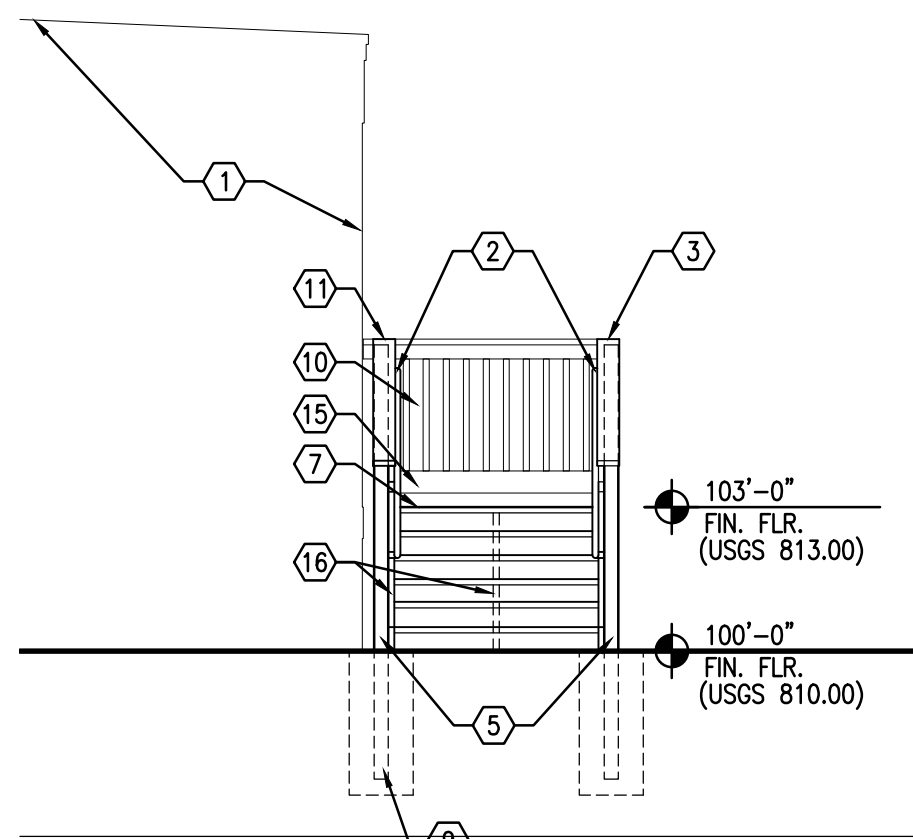
C2 **TYP. GUARD RAIL DETAIL**
SCALE: 3/4" = 1'-0"



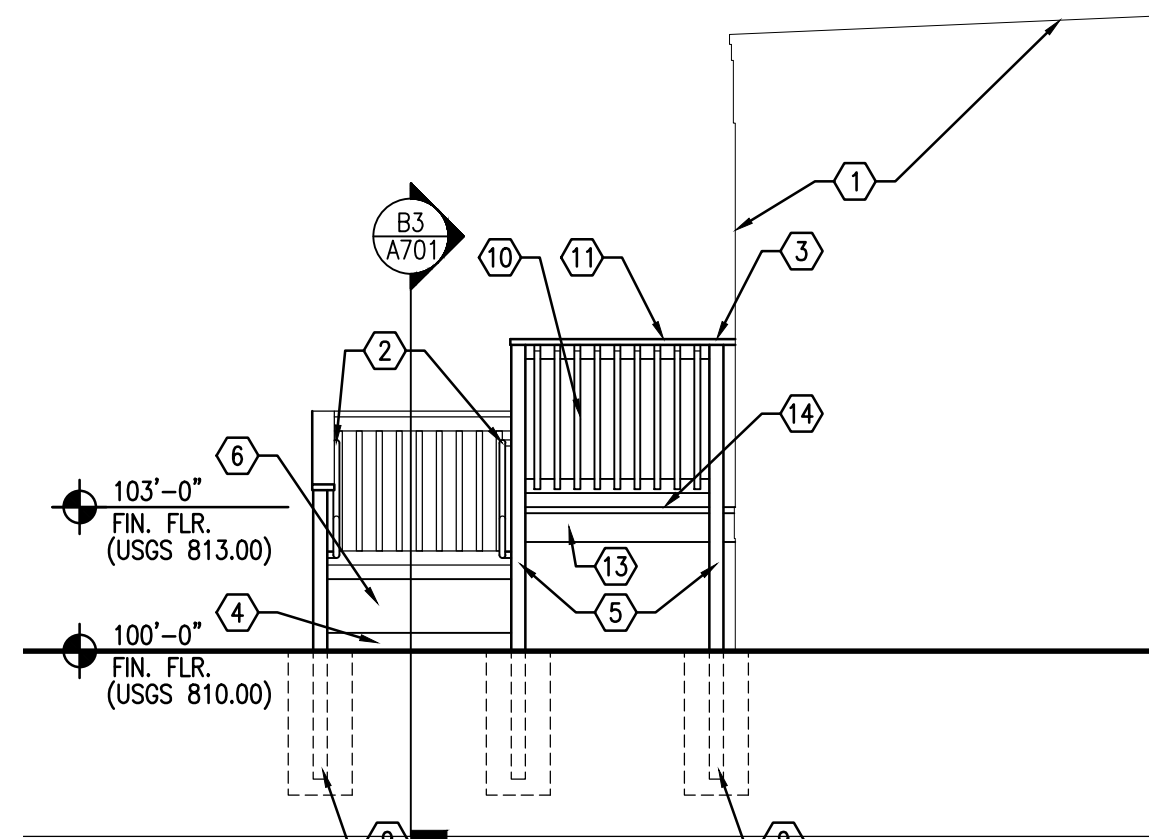
B5 **TYP. RAILING PANEL DETAIL**
SCALE: 3/4" = 1'-0"



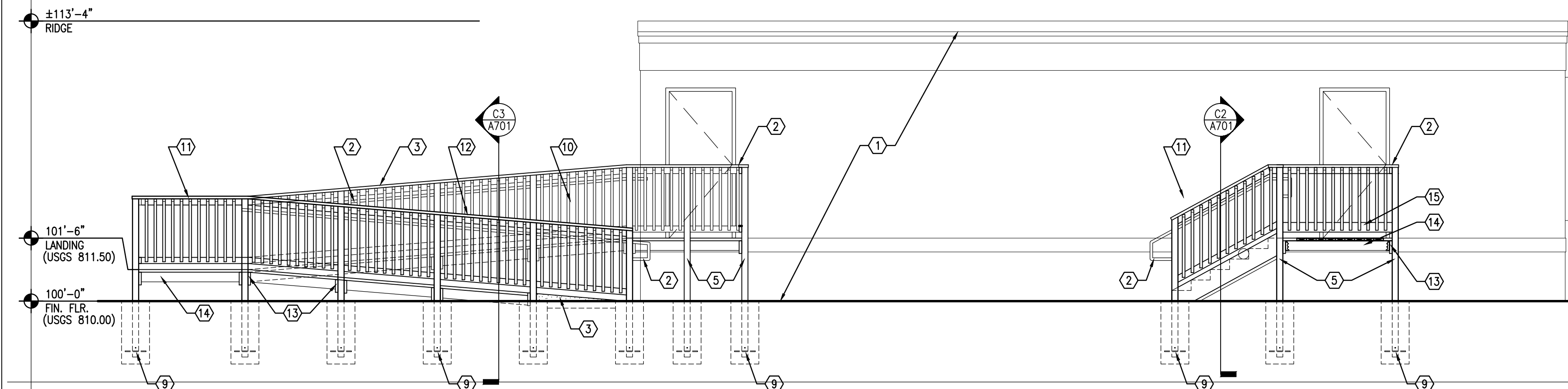
B4 **SOUTH ELEVATION**
SCALE: 1/4" = 1'-0"



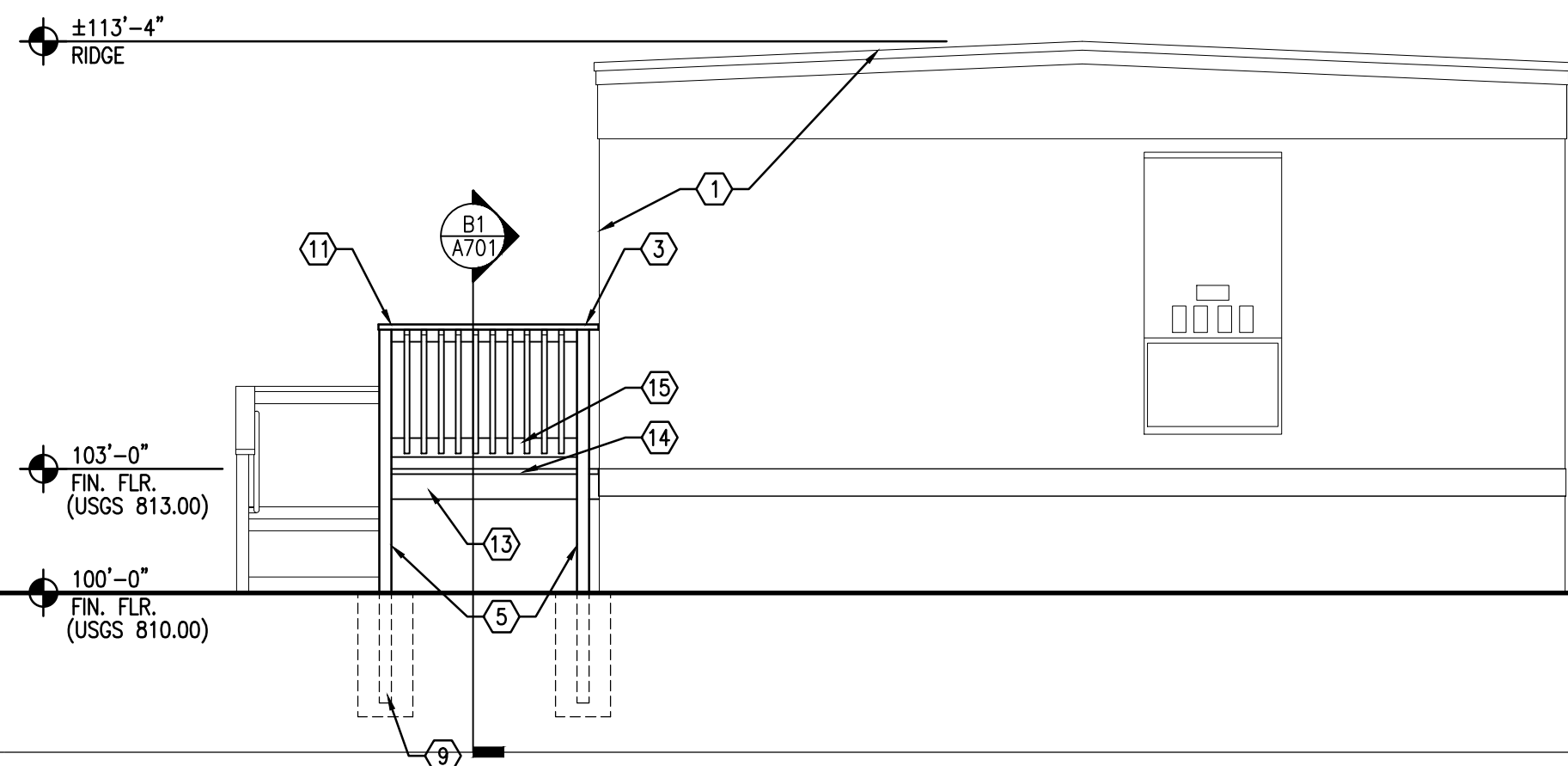
B2 **SOUTH STAIR ELEVATION**
SCALE: 1/4" = 1'-0"



B1 **NORTH RAMP ELEVATION**
SCALE: 1/4" = 1'-0"



A2 **EAST ELEVATION**
SCALE: 1/4" = 1'-0"



A1 **NORTH ELEVATION**
SCALE: 1/4" = 1'-0"

GENERAL PLAN NOTES

- SEE THIS SHEET AND "S" SHEETS FOR BUILDING DESIGN LOADS. ALSO REFER TO SUPPLEMENTAL MANUFACTURERS SET FOR ADDITIONAL STRUCTURAL INFORMATION.
- SEE ROOM FINISH SCHEDULE & SPECIFICATIONS FOR INTERIOR FINISH SPECIFICATIONS.
- SCHOOL IS RESPONSIBLE TO PROVIDE ALL APPLICABLE SIGNAGE IN COMPLIANCE WITH ANSI A117.1 GUIDELINES.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION PERTAINING TO A SPECIFIC ITEM OR MATERIAL.
- REFER TO SUPPLEMENTAL MANUFACTURERS SET FOR ADDITIONAL MODULAR UNIT INFORMATION INCLUDING, BUT NOT LIMITED TO ELEVATIONS, BUILDING SECTION, MECHANICAL, ETC. FOR COORDINATION WITH THESE DRAWINGS.

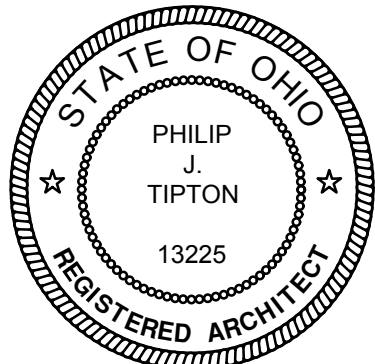
ELEVATION KEYED NOTES

NOTE: NOT ALL NOTES MAY APPLY TO THIS SHEET.

- LIMITS OF TEMPORARY MODULAR CLASSROOM UNIT.
- 1 1/2" DIA. STL. PIPE HANDRAIL, MTD. W/ CNTR. @2'-10" A.F.F. EA. SIDE OF STAIR OR RAMP.
- TOP OF GUARD RAIL TO BE 42" ABOVE FINISH FLOOR.
- 4" CONCRETE SLAB-ON-GRADE POURED FOR APPROACHES TO STAIRS AND RAMP AS SHOWN.
- 4x4 PRESSURE TREATED (PRT) WOOD POST, TYPICAL (SEE STRUCTURAL DRAWINGS FOR ANCHORING DETAILS).
- HC ENTRANCE RAMP CREATED WITH PRT WOOD AND AT A MAX. 1:12 SLOPE UP TO MODULAR UNIT ENTRY.
- PRT WOOD PLATFORM AT THE TOP OF STAIRS AND RAMP CONSTRUCTED USING 2X PRT FRAMING AND DECKING (SEE STRUCTURAL DRAWINGS).
- INFORMATION FOR THIS SECTION OR ELEVATION IS LOCATED IN THE SUPPLEMENTAL DRAWINGS INCLUDED WITH THIS SUBMISSION.
- CONC. FOUNDATION PIERS, TYP. (SEE STRUCTURAL DRAWINGS).
- 2X2 BALUSTERS SPACED 5" O.C. (SEE DETAIL B5/A201 FOR RAILING PANEL CONSTRUCTION).
- 2X6 GUARD RAIL TOP CAP (TYP.)
- 2x4 GUARD RAIL TOP CAP ONLY AT MIDDLE COLUMN ROW @ LOWER RAIL HEIGHT (SEE SECTION C3/A701).
- 2x8 HEADER PLACED BOTH SIDES OF INTERMEDIATE 4x4 POSTS AND ONE SIDE AT PERIMETER POSTS, TYP.
- 2x6 DECK BROS. SCREWED TO 2x6 FLOOR JOISTS SPACED @ 1'-4" MAX. SPACING, TYP.
- 2x6 BOT. RAIL OF GUARD ONLY @ STAIR LANDING
- 2x12 STRINGER, TYP. OF (3).



McKnight & Hosterman Architects, Inc.
3351 McDowell Road
P.O. Box 370
Grove City, Ohio 43123
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OF THE NAZARENE**
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DRAWING	DATE
<input type="checkbox"/> REVIEW SET	11 JUL 23
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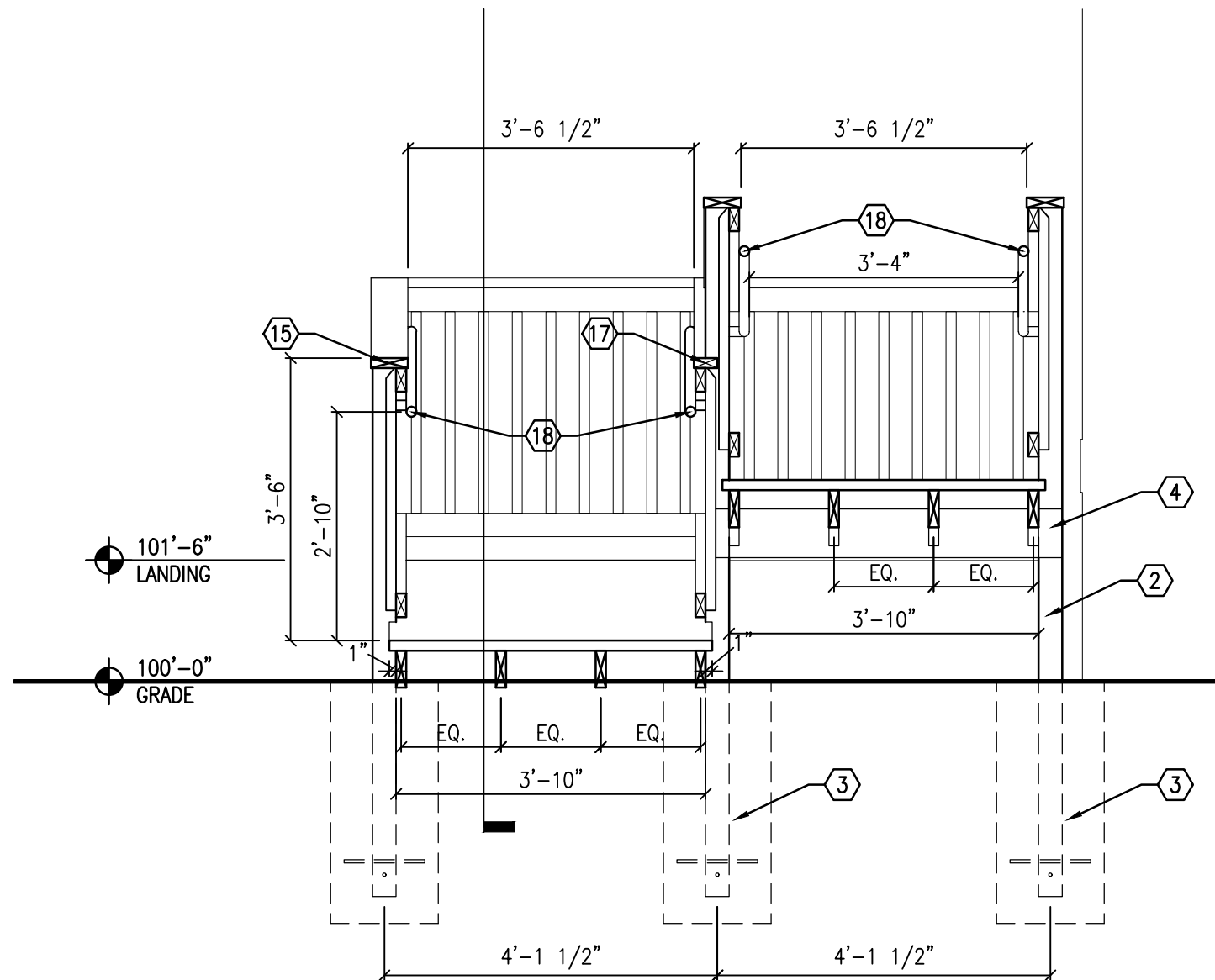
REVISIONS

MODULAR UNIT ELEVATIONS

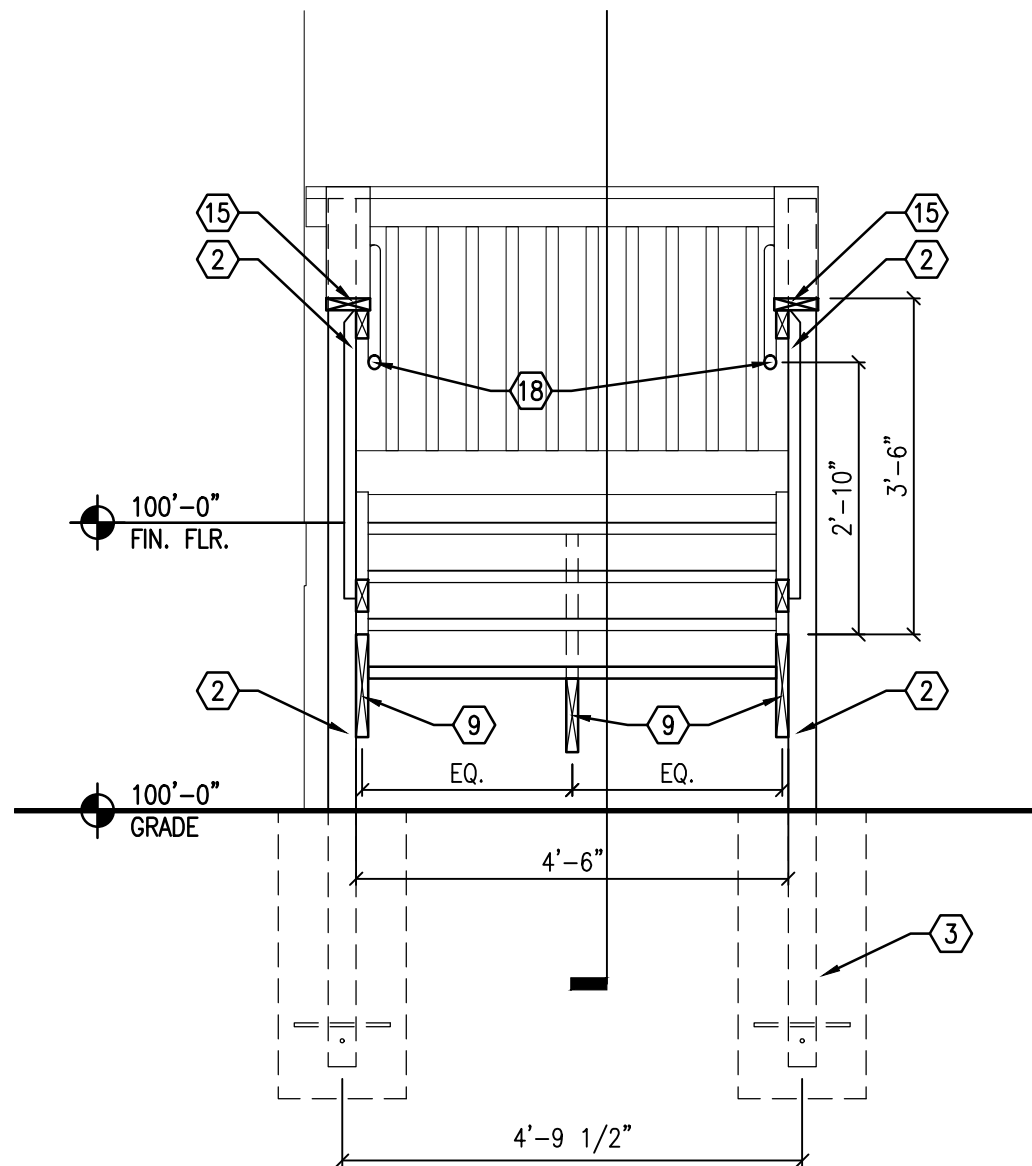
A201

OF . SHEETS

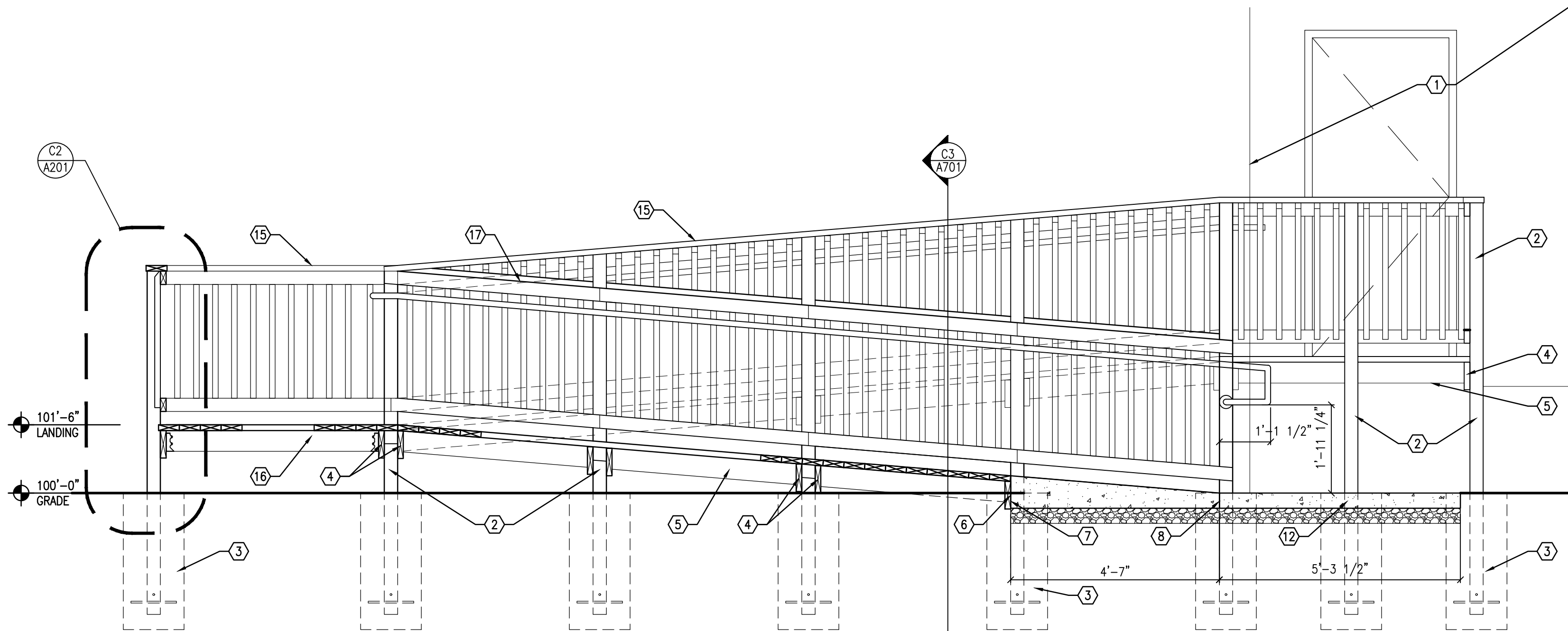
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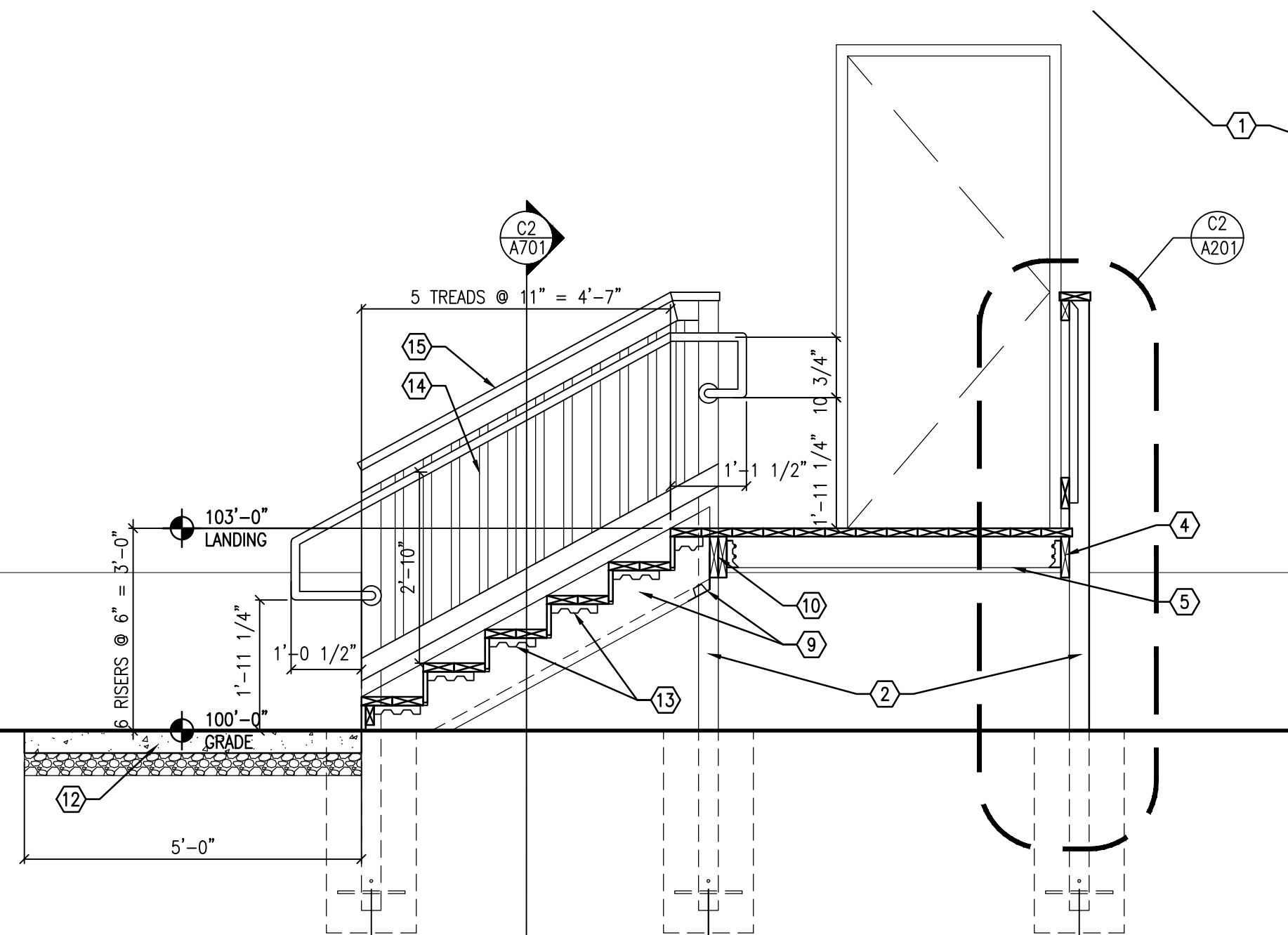
C3 RAMP SECTION
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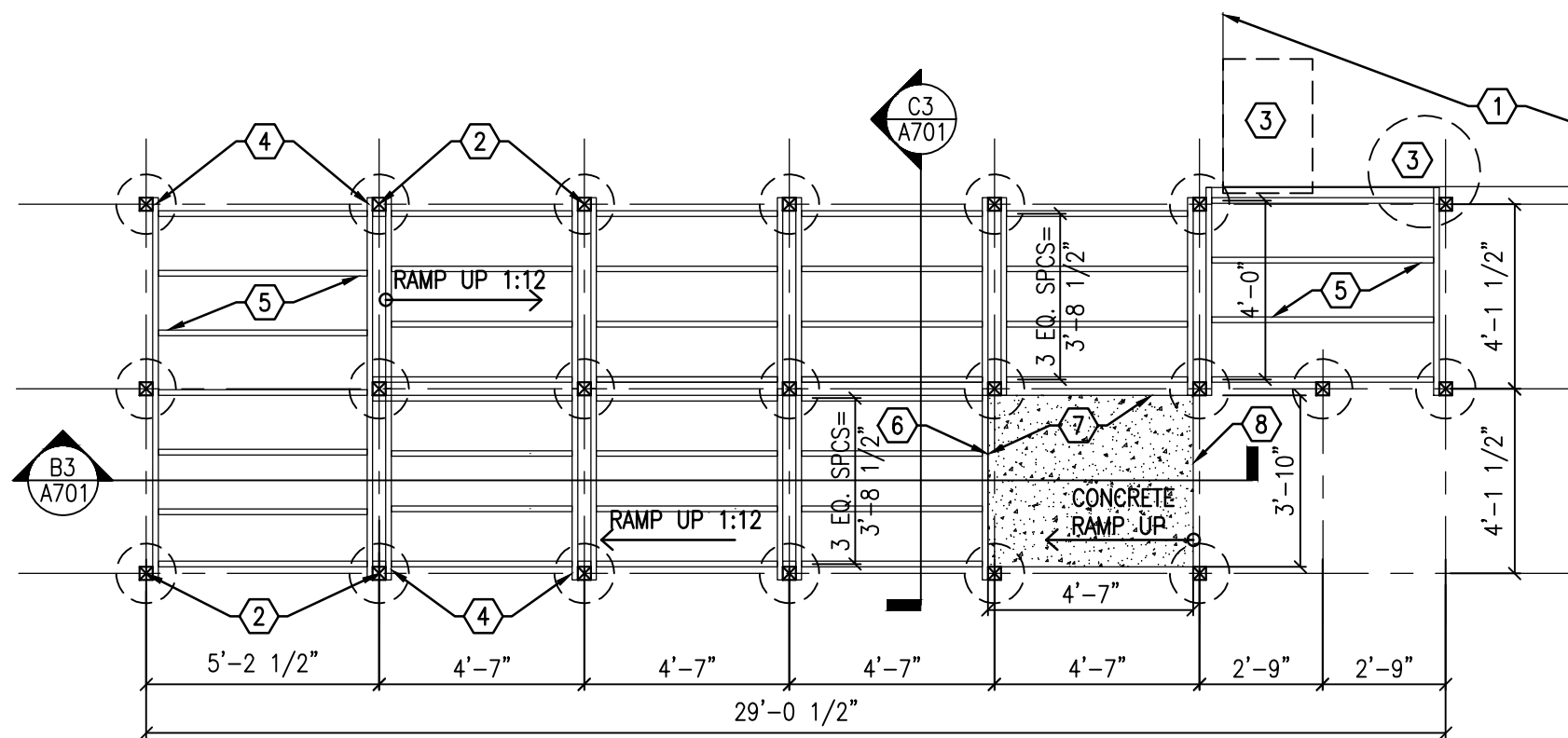
C2 STAIR SECTION
SCALE: 1/2" = 1'-0"



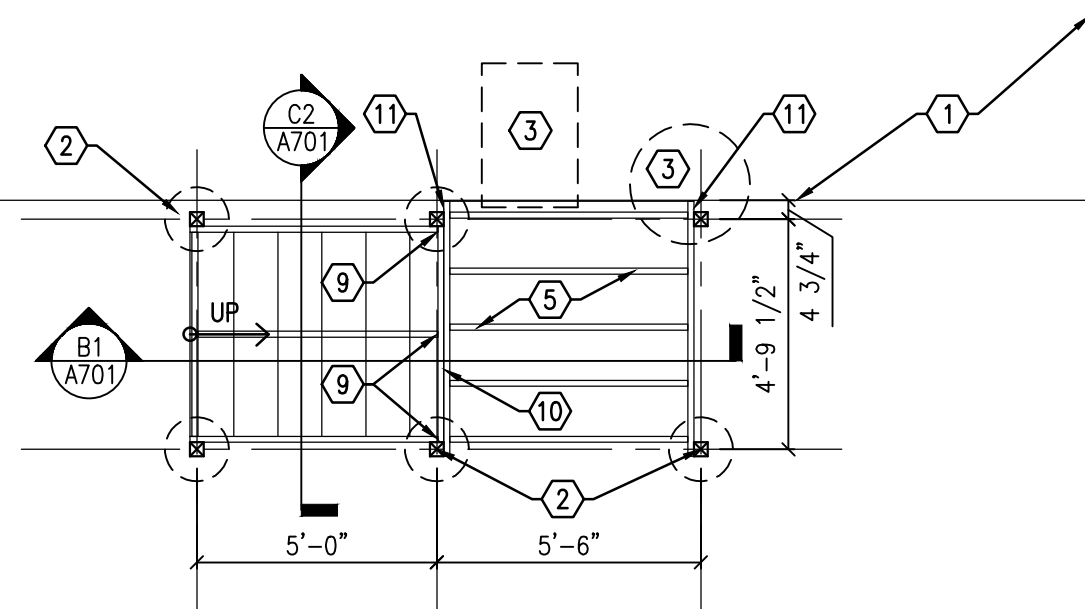
B3 RAMP SECTION
SCALE: 1/2" = 1'-0"



B1 STAIR SECTION
SCALE: 1/2" = 1'-0"



A3 RAMP FRAMING PLAN
SCALE: 1/4" = 1'-0"



A1 STAIR FRAMING PLAN
SCALE: 1/4" = 1'-0"

KEYED NOTES

NOTE: NOT ALL NOTES MAY APPLY TO THIS SHEET.

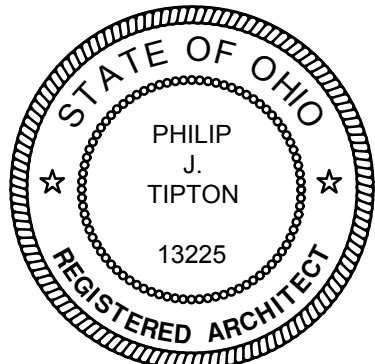
- LIMITS OF MODULAR UNIT
- TYP. 4X4 PRT. POST RATED FOR GROUND CONTACT EMBEDDED IN CONCRETE PIER. PLACE (2) 12" LONG #4 REBAR @ BOTTOM OF POST, 90° OPPOSED TO EACH OTHER FOR UPLIFT. WRAP BOTTOM OF POST THAT WILL BE ENCASED IN CONCRETE WITH PLASTIC TO PREVENT POST FROM ABSORBING WATER FROM CONCRETE (SEE STRUCTURAL SHEETS FOR MORE INFORMATION).
- TYP. CAST IN PLACE CONC. FOOTING (SEE STRUCTURAL SHEETS FOR MORE INFORMATION).
- TYP. 2X8 TREATED HEADER, PLACING (1) 2X8 EACH SIDE OF 4X4 WOOD POSTS, ONLY ONE SIDE AT PERIMETER POSTS. ATTACH EA. END OF HEADER TO SIDE OF POST W/ (3) 1/4" DIA. x 4" LONG SIMPSON SDS (SELF-DRILLING SCREWS).
- TYP. 2X6 TREATED WOOD JOISTS SPACED AT 16" O.C. MAX SPACING (SEE PLAN). SUPPORT EA. END OF JOISTS TO 2X8 HEADER W/ SIMPSON LUS26 (NOT LUS26). ZMAX GALVANIZED COATING REQUIRED. FRAMING OF WOOD PORTION OF RAMP TO START AT THIS LOCATION. 2X8 BRD. TO BE ANCHORED TO 4X4 POSTS WITH 2X6 DECK BRD. IN PLACE BEFORE FOOTING IS POURED AROUND POST.
- 2X WOOD FORMS FOR CONCRETE APPROACH RAMP PLACED AFTER WOOD FRAMING OF RAMP INSTALLED.
- CONCRETE APPROACH RAMP @ 1:12 SLOPE STARTING AT THIS POINT. 2X12 WOOD STAIR STRINGER ANCHORED TO DBL. 2X8 HEADER USING SIMPSON LSCZ ADJUSTABLE STAIR STRINGER CONNECTOR W/ Z-MAX FINISH. OUTER STRINGERS TO ALSO BE SECURED TO 4X4 POSTS W/ (3) 1/4" DIA. x 4" LONG SIMPSON SDS (SELF-DRILLING SCREWS).
- 2X8 HEADER ANCHORED TO 4X4 POSTS AND SHORTER 2X8 BLOCKING SCREWED TO IT CREATING DBL. HEADER @ TOP OF STAIRS.
- 2X8 HEADER TO EXTEND PAST 4X4 POST TO THE MODULAR UNIT @ THIS LOCATION TO ALLOW 2X6 BRACKET TO BE SECURED.
- 4" CONC. WALK/APPROACH OVER 4" GRAVEL BASE.
- SIMPSON STAIR ANGLE @ EA. END OF STAIR TREADS @ OUTER STRINGERS ONLY.
- 2X2 BALUSTERS SPACED @ 5" O.C., TYP. (SEE GUARD RAILING PANEL DETAIL B5/A201 FOR MORE INFORMATION).
- 2X6 TOP RAIL CAP SECURED TO 2X4 TOP RAIL W/ SCREWS @ 8" O.C., TYP.
- LANDING 2X6 JOISTS TO BE SUPPORTED ON EA. END USING SIMPSON LUS26 JOIST HANGERS @ EA. END, INSTALLED PER MANUFACTURERS SPECIFICATIONS.
- 2X4 TOP RAIL CAP ONLY @ INTERMEDIATE LOWER GUARD RAIL, BETWEEN 4X4 POSTS, SECURED TO 2X4 TOP RAIL W/ SCREWS @ 8" O.C., TYP.
- 1 1/2" STEEL HANDRAIL PLACED @ 2'-10" TO CENTER OF RAILING ABOVE STAIR NOSING OR RAMP DECK. RAILING TO CONTINUE BEYOND UPPER AND LOWER LANDINGS AS REQUIRED TO MEET ANSI A117.1.

GENERAL NOTES

- SEE THIS SHEET AND "S" SHEETS FOR BUILDING DESIGN LOADS. AND OTHER DETAIL INFORMATION. ALSO REFER TO SUPPLEMENTAL MANUFACTURERS SET FOR ADDITIONAL INFORMATION CONCERNING MODULAR UNIT.
- ALL EXTERIOR WOOD FRAMING IS TO BE PRESSURE TREATED LUMBER AND RATED FOR EXTERIOR USE OR GROUND CONTACT DEPENDING ON ITS LOCATION.
- SCHOOL IS RESPONSIBLE TO PROVIDE ALL APPLICABLE SIGNAGE IN COMPLIANCE WITH ANSI A117.1 GUIDELINES.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION PERTAINING TO A SPECIFIC ITEM OR MATERIAL.
- REFER TO SUPPLEMENTAL MANUFACTURERS SET FOR ADDITIONAL MODULAR UNIT INFORMATION INCLUDING, BUT NOT LIMITED TO ELEVATIONS, BUILDING SECTION, MECHANICAL, ETC. FOR COORDINATION WITH THESE DRAWINGS.
- DECK BOARDS FOR STAIRS, LANDINGS, AND RAMP TO BE PRT 2X6 BOARDS SCREWED TO SUPPORTING FRAMING WITH CORROSION RESISTANT 3" DECK SCREWS, (2) @ EA. HEADER OR JOIST.



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Grove City, Ohio 43123 www.mcknightgroup.com



PHILIP J. TIPTON, LICENSE #13225
EXPIRATION DATE 12/31/2023

Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.



Modular Building Addition for:
**SHEPHERD CHURCH
OF THE NAZARENE**
425 S. HAMILTON ROAD
GAHANNA, OH 43230

DRAWING	DATE
<input type="checkbox"/> REVIEW SET	11 JUL 23
<input checked="" type="checkbox"/> Permit/Bid Set	08 AUG 23

REVISIONS

**STAIR AND RAMP
DETAILS AND
NOTES**

A701
OF . SHEETS

223223

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE TO SECURE AND PAY FOR ALL PERMITS, ADHERE TO ALL STATE, LOCAL AND NATIONAL ELECTRIC CODES, AND SCHEDULE INSPECTION TIMES AS TO NOT DELAY JOB PROGRESS.
- COORDINATE ALL WORK WITH OTHER TRADES TO ELIMINATE CONFLICTS ON THE JOB.
- PERFORM ALL WORK IN A NEAT AND PROFESSIONAL MANNER, AND SUPPLY ALL NEW EQUIPMENT AND ACCESSORIES.
- SUBMIT SHOP DRAWINGS AND OPERATION MANUALS OF ALL EQUIPMENT AND ACCESSORIES FOR OWNER APPROVAL, PRIOR TO STARTING WORK.
- REFER TO SUPPLEMENTAL DRAWINGS FOR PREFABRICATED MODULAR CLASSROOM DETAILS INCLUDING POWER, LIGHTING & UTILITY CONNECTIONS.

ELECTRICAL:

- ALL LINE VOLTAGE WIRING IS TO BE IN CONDUIT OR MC CABLE. MINIMUM SIZE CONDUIT TO BE 1/2" FOR INDIVIDUAL LIGHT FIXTURE CONNECTIONS, AND 3/4" FOR ALL OTHER LOCATIONS. FLEXIBLE CONDUIT TO BE MC CABLE (NO BX). MINIMUM POWER WIRE SIZE: #12 AWG. INSULATION TO BE THHN/THWN.
- ALL ELECTRICAL PANELS ARE TO BE BASED ON SQUARE "D" OR EQUAL BY G.E., EATON OR SIEMENS WITH BOLT-ON TYPE CIRCUIT BREAKERS,
- ALL PENETRATIONS OF WALL, ROOF AND CEILINGS TO BE SEALED AS REQUIRED WITH UL APPROVED FIRE SEALANT PER MANUFACTURER'S DETAIL TO MAINTAIN FIRE RATING AS REQUIRED. CONTRACTOR TO HAVE UL APPROVED DETAIL ON SITE.
- CONDUITS AND/OR CABLES INSTALLED UNDER ROOF DECKING SHALL HAVE A MINIMUM OF 1 1/2" SPACE BETWEEN CONDUITS AND/OR CABLES AND ROOF DECKING PER NEC ARTICLE 300.4 (E).
- PANELBOARDS, METER SOCKET ENCLOSURES ETC... THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS PER NEC 110.16.
- ALL WIRING IS TO BE COLOR-CODED AS FOLLOWS:

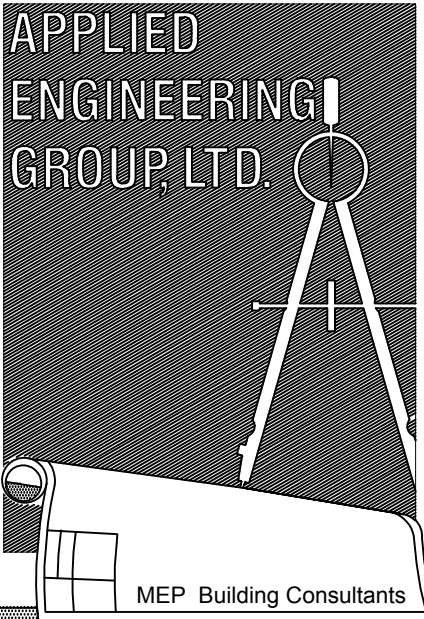
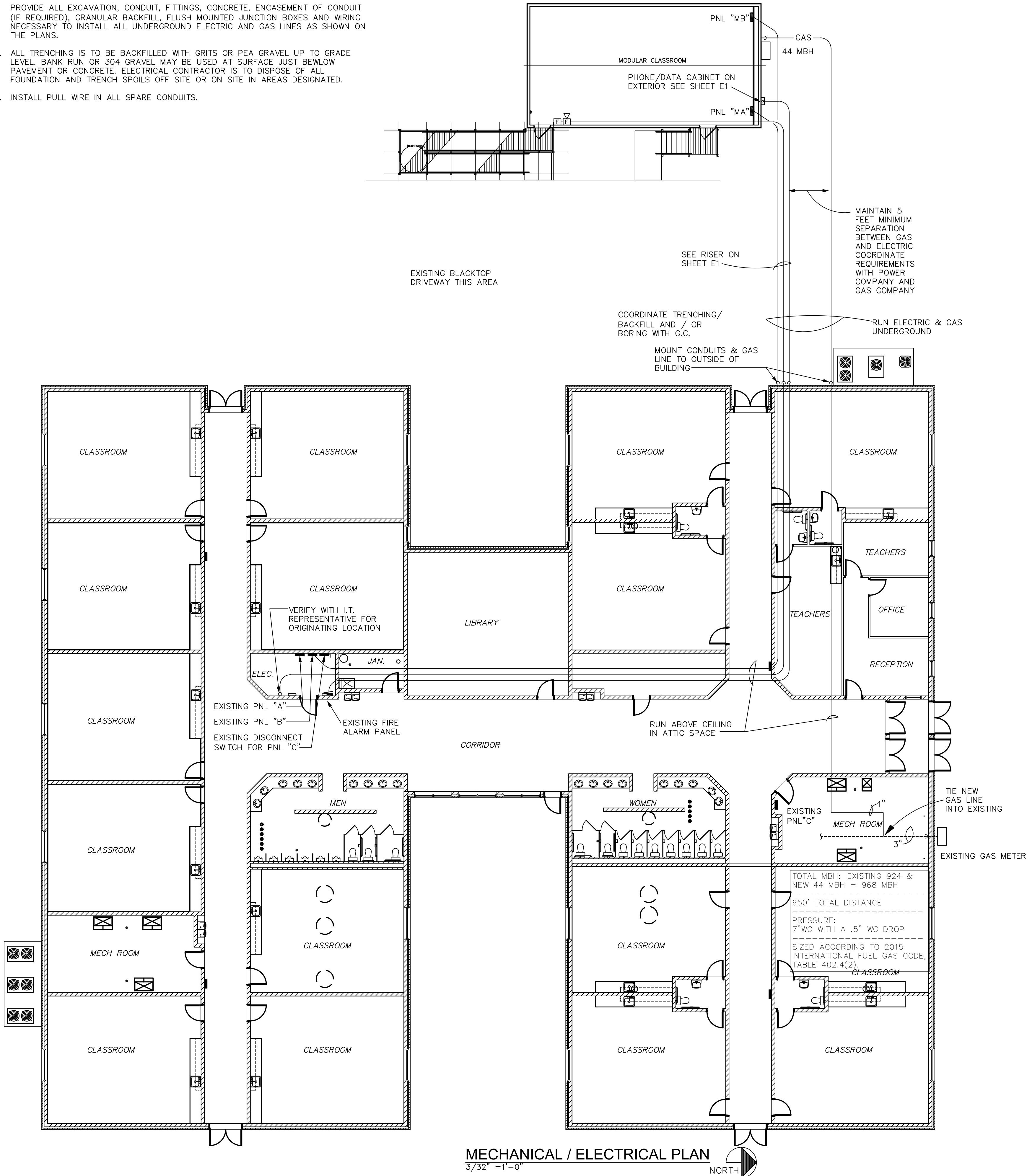
120/208 VOLT SYSTEM:
NEUTRAL - WHITE
PHASE A OR L1 - BLACK
PHASE B OR L2 - RED
PHASE C OR L3 - BLUE
GROUND - GREEN
- PROVIDE FLEXIBLE CONDUIT FOR ALL VIBRATING EQUIPMENT, NOT TO EXCEED 3 FT. IN LENGTH.
- MINIMIZE EXPOSED CONDUIT BY CONCEALING IN WALLS AS MUCH AS POSSIBLE.
- BALANCE ALL PANELS WITHIN 10% OF EACH PHASE LEG.
- PROVIDE LABELS AND TAGS FOR ALL PANELS AND SWITCHGEAR EQUIPMENT. PROVIDE TYPED DIRECTORY OF ALL CIRCUITS LABELED BY ROOM NUMBER OR NAME.
- CIRCUIT ALL EMERGENCY LIGHT FIXTURES, EXIT SIGNS AND NIGHTLIGHTS, (NL) TO LOCAL CIRCUIT AHEAD OF ANY SWITCHING.
- REFER TO MECHANICAL PLAN FOR LOCATION OF MECHANICAL EQUIPMENT. FIELD VERIFY EXACT LOCATIONS.
- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH NATIONAL ELECTRIC CODE AND ALL LOCAL CODES AND ORDINANCES. THE CONTRACTOR SHALL INQUIRE INTO AND COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. AFTER CONTRACT IS ISSUED, NO ADDITIONAL COST DUE TO CODE ISSUES SHALL BE REIMBURSED BY THE OWNER TO THE CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL VERIFY EXACT/ALL MOUNTING HEIGHTS, LOCATIONS AND COLOR (FINISH) OF ALL DEVICES AND EQUIPMENT WITH THE ARCHITECT AND/OR OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.
- EC IS TO KEEP A CURRENT COPY OF THE AS-BUILT CONDITIONS DURING THE PROJECT. AT THE END OF THE PROJECT, THE EC SHALL TURN OVER TO THE OWNER 3 COPIES OF THE FINAL AS-BUILT DRAWINGS. EC SHALL ALSO FURNISH O & M FOR SYSTEMS AND EQUIPMENT TO DESIGNATED REPRESENTATIVE.
- LIGHTING SYSTEMS SHALL BE TESTED TO ENSURE PROPER CALIBRATION, ADJUSTMENT, PROGRAMING, AND OPERATION.

MECHANICAL - GAS PIPING:

- ABOVE GROUND: GAS LINES SHALL BE BLACK STEEL, SCHEDULE 40, ASTM A-53/53M. FITTINGS SHALL BE AS FOLLOWS:
- 14" W.C. OR LESS: FITTINGS SHALL BE STEEL OR MALLEABLE IRON THREADED FITTINGS FOR 2 1/2" AND SMALLER, AND WELDED JOINTS FOR 3" AND LARGER.
- ABOVE 14" W.C.: FITTINGS SHALL BE STEEL WITH WELDED JOINTS.
- WHERE APPROVED BY OWNER IN WRITING, FITTINGS 4" AND SMALLER SHALL BE STEEL PRESS-CONNECT FITTINGS, ANSI LC-4, WITH HNBR SEALS. REFER TO MANUFACTURER FOR PRESSURE RATINGS.
- ABOVE/BELOW GROUND: WHERE NOTED ON PLANS OR APPROVED BY OWNER IN WRITING, GAS PIPING SHALL BE CSST GAS PIPING, ANSI LC1/CSA 6.26, WITH ARC-RESISTANT JACKET. WHERE USED UNDERGROUND PIPING SHALL BE RATED FOR DIRECT BURY OR INSTALLED IN A PIPE SLEEVE EXTENDING ABOVE GROUND ON BOTH ENDS. NO FITTINGS ARE ALLOWED UNDERGROUND.
- OUTSIDE BELOW GROUND: GAS LINES SHALL BE POLYETHYLENE GAS PIPING, ASTM D2513, WITH FACTORY ASSEMBLED ANODELESS RISERS. JOINTS SHALL BE OF HEAT FUSION TYPE PER ASTM D2513. A TRACER WIRE SHALL BE PROVIDED AND INSTALLED AS REQUIRED BY CODE.
- BELOW GROUND: OTHER SUITABLE CODE APPROVED PIPING WITH ADEQUATE PROTECTION IS ACCEPTABLE WITH WRITTEN APPROVAL FROM OWNER.
- PROVIDE A GAS COCK, DIRT LEG, AND UNION CONNECTION TO EACH PIECE OF EQUIPMENT. PROVIDE GAS METER AND/OR REGULATOR AS REQUIRED. REGULATOR TO BE VENTED TO THE EXTERIOR UNLESS NOTED OTHERWISE.
- PITCH PIPING AT A UNIFORM GRADE OF 1/4" IN 15 FEET UPWARD IN DIRECTION OF FLOW. SUPPORT PIPING EVERY 5 FEET. SUPPORT AS DETAILED ON DRAWINGS, OR BY STANDARD INDUSTRY PRACTICE, WHICHEVER IS MORE STRINGENT.
- GAS PIPING EXPOSED ON ROOF AND GAS PIPING EXPOSED OUTSIDE MUST BE PAINTED WITH RUST-INHIBITING PAINT. COORDINATE COLOR(S) WITH G.C.
- INSTALLATION, TESTING AND PURGING OF GAS PIPING SHALL BE DONE PER THE REQUIREMENTS OF THE LOCAL GAS COMPANY, LOCAL CODES, AND APPLICABLE FUEL GAS CODE.
- CONTACT AND COORDINATE GAS SERVICE AND METER REQUIREMENTS WITH THE LOCAL GAS COMPANY AND THE BUILDING'S MANAGER PRIOR TO BID.

SITE GENERAL NOTES

- PROVIDE ALL EXCAVATION, CONDUIT, FITTINGS, CONCRETE, ENCASEMENT OF CONDUIT (IF REQUIRED), GRANULAR BACKFILL, FLUSH MOUNTED JUNCTION BOXES AND WIRING NECESSARY TO INSTALL ALL UNDERGROUND ELECTRIC AND GAS LINES AS SHOWN ON THE PLANS.
- ALL TRENCHING IS TO BE BACKFILLED WITH GRITS OR PEA GRAVEL UP TO GRADE LEVEL. BANK RUN OR 304 GRAVEL MAY BE USED AT SURFACE JUST BEWLOW PAVEMENT OR CONCRETE. ELECTRICAL CONTRACTOR IS TO DISPOSE OF ALL FOUNDATION AND TRENCH SPOILS OFF SITE OR ON SITE IN AREAS DESIGNATED.
- INSTALL PULL WIRE IN ALL SPARE CONDUITS.



7402 East Broad Street
Blacklick, Ohio 43004
Phone: 614.322.7050
Fax: 614.322.7049
www.aegitd.com

SHEPHERD CHRISTIAN SCHOOL
425 South Hamilton Road
Gahanna, OH 43230

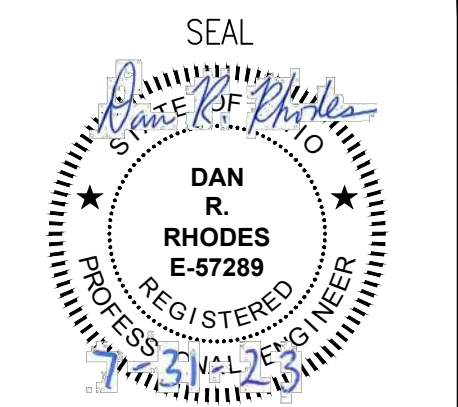
REVISIONS

NO.	DESCRIPTION	DATE

DATE: 7-31-23

SCALE: AS NOTED

JOB #: 23238



SHEET TITLE

MECHANICAL
ELECTRICAL
PLAN

SHEET NO.

ME1

PANEL WIRING SCHEDULE (3-PHASE)														
PANELBOARD "A"				VOLTAGE 120/208				PHASE 3 WIRE 4				AIC RATING EXISTING		
PANEL TYPE G.E. A SERIES				MAINS 200A MCB				BUS RATING 200A						
NEMA TYPE ENCLOSURE 1				MOUNTING SURFACE				OPTIONS ---				NOTE		
CKT. NO.	LOAD DESCRIPTION	BRKR. SIZE ▲	NOTE	N.E.C. KVA #A	N.E.C. KVA #B	N.E.C. KVA #C	PHASE	N.E.C. KVA #A	N.E.C. KVA #B	N.E.C. KVA #C	NOTE	BRKR. SIZE ▲	LOAD DESCRIPTION	CKT. NO.
1	EXISTING CU	60/3	/	4.320			A	4.320				60/3	EXISTING CU	2
3	---			4.320			B		4.320				---	4
5	---				4.320		C			4.320				6
7	EX FURNACE 5 B		1.127			A	1.127			4.320	/		EX FURNACE 5 A	8
9	EX WATER COOLER			0.360			B		0.360				EX WATER COOLER	10
11	EX SPACE						C			0.300			EX REMOTE ANN.	12
13	EX RECEPTS		0.900				A	0.720					EX FIRE ALARM	14
15	EX RECEPTS			0.900			B		0.900				EX RECEPTS	16
17	EX SNOWMELT				0.360		C			0.900			EX RECEPTS	18
19	EX RECEPTS		0.900				A	0.900					EX LIGHTS	20
21	EX LIGHTS			0.900			B		0.900				EX RECEPTS	22
23	EX RECEPTS				0.900		C			0.900			EX LIGHTS	24
25	EX CORRIDOR LIGHTS (E)		0.900				A	0.900					EX LIGHTS	26
27	EX LIGHTING			0.900			B		0.900				EX LIGHTS	28
29	EX R.R. LIGHTING				0.900		C			0.900			EX RECEPTS	30
31	SPACE		---				A	---					SPARE	32
33	SPACE			---			B		---				SPARE	34
35	EX NIGHT LTS (E)				0.900		C			1.872	30/2		EX SNOWMELT	36
37	SPACE		---				A	1.872					---	38
39	EX SNOWMELT	30/2		1.872			B		1.872			30/2	EX SNOWMELT	40
41	---	/			1.872		C			1.872			---	42
NOTES														
1. ALL CIRCUIT BREAKERS TO BE 20-AMP, 1-POLE UNLESS OTHERWISE NOTED.														
2. ALL PHASES TO BE BALANCED TO WITHIN 10% USING ACTUAL LOAD TOTALS.														
PANEL LOAD SUMMARY													BREAKER NOTES:	
N.E.C. CONNECTED TOTALS													LO - HANDLE LOCK-OFF DEVIDE	
#A 17.986 KVA													HACR - HEATING, A/C & REFRIGERATION	
#B 18.504 KVA													TC - RUN CIRCUIT THROUGH TIME CLOCK	
#C 20.316 KVA														
TOTAL 56.806 KVA														
TOTAL 157.8 AMPS														

PANEL WIRING SCHEDULE (3-PHASE)														
PANELBOARD "B"				VOLTAGE 120/208				PHASE 3 WIRE 4				AIC RATING EXISTING		
PANEL TYPE G.E. A SERIES				MAINS 200A MCB				BUS RATING 200A						
NEMA TYPE ENCLOSURE 1				MOUNTING SURFACE				OPTIONS ----				NOTE		
CKT. NO.	LOAD DESCRIPTION	BRKR. SIZE ▲	NOTE	N.E.C. KVA #A	N.E.C. KVA #B	N.E.C. KVA #C	PHASE	N.E.C. KVA #A	N.E.C. KVA #B	N.E.C. KVA #C	NOTE	BRKR. SIZE ▲	LOAD DESCRIPTION	CKT. NO.
1	EXISTING CU	60/3		4.320			A	2.250				30/2	EX WATER HEATER	2
3	----			4.320			B		2.250				----	4
5	----				4.320		C			1.127			EX FURNACE 4B	6
7	EX WATER COOLER			0.360			A	0.360					EX HOT WATER CIRC PUMP	8
9	EX POINT USE WIR HTR	30/2		2.250			B		1.127				EX FURNACE 4 A	10
11	----				2.250		C			0.900			EX RECEPTS	12
13	EX RECEPTS			0.900			A	0.900					EX RECEPTS	14
15	EX RECEPTS				0.900		B		0.900				EX RECEPTS	16
17	EX RECEPTS				0.900		C			0.900			EX RECEPTS	18
19	EX RECEPTS			0.900			A	0.900					EX RECEPTS	20
21	EX RECEPTS				0.900		B		0.900				EX RECEPTS	22
23	EX RECEPTS				0.900		C			0.900			EX LIGHTING	24
25	EX RECEPTS			0.900			A	0.900					EX LIGHTING	26
27	EX LIGHTING				0.900		B		0.900				EX LIGHTING	28
29	EX LIGHTING					0.900	C			0.900			EX LIBRARY LTS	30
31	EX CORRIDOR LTS (E)			0.900			A	0.900					EX LIGHTING TIME CLOCK	32
33	EX CORRIDOR LTS (E)				0.900		B		0.900				EX LIGHTING	34
35	EX LIGHTING				0.900		C			0.900			EX LIGHTING	36
37	EX LIGHTING			0.900			A	0.900					EX NIGHT LTS (E)	38
39	PANEL MA	70/2		2.500			B		5.250			70/2	PANEL MB	40
41	----				1.900		C			6.250			----	42
NOTES														
1. ALL CIRCUIT BREAKERS TO BE 20-AMP, 1-POLE UNLESS OTHERWISE NOTED.														
2. ALL PHASES TO BE BALANCED TO WITHIN 10% USING ACTUAL LOAD TOTALS.														
3. EC TO MOVE EXISTING RECEPT CKT 39 TO SPARE CKT 19 AND MOVE EXISTING NIGHTLIGHT CKT 40 TO SPARE CKT 38. PROVIDE NEW BREAKERS FOR PANELS MA & MB.														
PANEL LOAD SUMMARY								BREAKER NOTES:						
N.E.C. CONNECTED TOTALS								LO - HANDLE LOCK-OFF DEVIDE						
#A 16.290 KVA								HACR - HEATING, A/C & REFRIGERATION						
#B 24.897 KVA								TC - RUN CIRCUIT THROUGH TIME CLOCK						
#C 23.947 KVA														
TOTAL 65.134 KVA														
TOTAL 180.9 AMPS														

DESCRIPTION	CONN. KVA	DEMAND FACTOR	DEMAND KVA
PEAK DEMMAND IN LAST 12 MONTHS (AUGUST 2022)	57.1	1.25	71.4
PANEL MA	4.4	1.0	4.4
PANEL MB	11.5	1.0 PLUS 25% OF LARGEST MOTOR	13.1
TOTALS	73.0		88.9
DEMAND KVA * 1000 VOLTAGE*SQ. ROOT OF PHASE			
88.9 * 1000 = 246.9 AMPS MIN. SERVICE, REUSE EXISTING 600			
208 * JS = AMP SERVICE			

CODED NOTES

- PANELS MA AND MB ARE PROVIDED WITH THE MODULAR CLASSROOM. THESE PANELS ARE RATED AT 100 AMPS MLO EACH.
- RUN NEW FEEDERS FROM EXISTING PANEL 'B' TO NEW PANELS MA & MB AS SHOWN.
- RUN 4 #12 FOR NEW HORN/STROBE AND 2 #18 FOR PULL STATION IN MODULAR CLASSROOM. BOTH SETS OF WIRING TO BE IN 1" CONDUIT FROM EXISTING FACP TO MODULAR CLASSROOM. SEE F.A. RISER DIAGRAM AT LEFT. ADD ZONE TO PANEL IF PANEL IS EXPANDABLE, OTHERWISE SHARE ZONE FOR NEW PULL STATION WITH EXISTING.
- EC TO GROUND PANELS MA & MB TO (2) DRIVEN GROUND RODS SPACED 6 FEET APART AND CARY SEPARATE NEUTRAL AND ROUND THROUGH BACK TO MAIN SERVICE. GROUND AND NEUTRAL TO ONLY BE BONDED AT MAIN SERVICE.
- EC TO RUN (2) 1" CONDUITS FOR PHONE / DATA LINES BY OTHERS. ROUTE FROM EXISTING ELECTRIC ROOM (VERIFY IF THIS IS WHERE EXISTING PHONE BOARD IS LOCATED) TO NEMA JR 18" X 18" CABINET ON EXTERIOR OF MODULAR CLASSROOM. COORDINATE WITH I.T. REPRESENTATIVE.

PANEL WIRING SCHEDULE (3-PHASE)														
PANELBOARD "C"				VOLTAGE 120/208				PHASE 3 WIRE 4				AIC RATING EXISTING		
PANEL TYPE SQ D NQ OR EQUAL				MAINS 200A MLO				BUS RATING 200A						
NEMA TYPE ENCLOSURE 1				MOUNTING SURFACE				OPTIONS ---				NOTE		
CKT. NO.	LOAD DESCRIPTION	BRKR. SIZE ▲	NOTE	N.E.C. KVA #A	N.E.C. KVA #B	N.E.C. KVA #C	PHASE	N.E.C. KVA #A	N.E.C. KVA #B	N.E.C. KVA #C	NOTE	BRKR. SIZE ▲	LOAD DESCRIPTION	CKT. NO.
1	EXISTING CU	20/3		1.440			A	2.880				40/3	EXISTING CU	2
3	---				1.440		B		2.880				---	4
5	---					1.440	C			2.880			---	6
7	EXISTING CU	60/3		4.320			A	---					SPARE	8
9	---				4.320		B		1.127				EX FURNACE	10
11	---					4.320	C			1.127			EX FURNACE	12
13	EX FURNACE			1.127			A	1.127					EX FURNACE	14
15	EX FURNACE				1.127		B		---				SPACE	16
17	EXISTING LOAD					0.900	C			0.900			EXISTING LOAD	18
19	EXISTING LOAD			0.900			A	0.900					EXISTING LOAD	20
21	EXISTING LOAD				0.900		B		0.900				EXISTING LOAD	22
23	EXISTING LOAD					0.900	C			0.900			EXISTING LOAD	24
25	EXISTING LOAD			0.900			A	0.900					EXISTING LOAD	26
27	EXISTING LOAD				0.900		B		0.900				EXISTING LOAD	28
29	EXISTING LOAD					0.900	C			0.900			EXISTING LOAD	30
31	EXISTING LOAD			0.900			A	0.900					EXISTING LOAD	32
33	SPACE				---		B		0.900				EXISTING LOAD	34
35	EXISTING LOAD				0.900		C			0.900			EXISTING LOAD	36
37	EXISTING LOAD			0.900			A	0.900					EXISTING LOAD	38
39	EXISTING LOAD				0.900		B		0.900				EXISTING LOAD	40
41	EXISTING LOAD					0.900	C			0.900			EXISTING LOAD	42
NOTES				PANEL LOAD SUMMARY								BREAKER NOTES:		
1. ALL CIRCUIT BREAKERS TO BE 20-AMP, 1-POLE UNLESS OTHERWISE NOTED.				N.E.C. CONNECTED TOTALS								LO - HANDLE LOCK-OFF DEVIDE		
2. ALL PHASES TO BE BALANCED TO WITHIN 10% USING ACTUAL LOAD TOTALS.												HAGR - HEATING, A/C & REFRIGERATION		
												TC - RUN CIRCUIT THROUGH TIME CLOCK		



October 23, 2023

City of Gahanna
Department of Planning
Attn: Kelly Wicker, Planning and Zoning Coordinator
200 S. Hamilton Rd.
Gahanna, Ohio 43230
Ph.: (614) 277-3075

Re.: Final Development Plan review comments

Dear Ms. Wicker,

The plans affected by this response letter are known as:

**Shepherd Church of the Nazarene
Modular Building addition
425 S. Hamilton Rd.
Gahanna, Ohio 43230**

We are responding to the letter received that was sent from your office dated September 13, 2023 regarding the comments on the Final Development Plan application for the installation of the modular classroom unit, and are responding to them item by item below. New plans are being submitted for review in response to the correction letter.

Item 1. **Planning (614) 342-4025.**

1. Please see comments left on associated application and revise as necessary.

RESPONSE: Response to these comments have been covered in the letter for the Design Review/ C of A. submitted to the Department of Planning.

Items 2-5. **Engineering Project Administrator (614) 342-4056.**

2. Use the City of Gahanna Basemap Application as a reference for public utilities owned and operated by the City of Gahanna (*Informational Comment*).

Leaders and First Choice in Innovative Church Design and Building

3351 McDowell Road, P.O. Box 370, Grove City, Ohio 43123 614.875.1689 800.625.6448 614.875.7006 fax www.mcknightgroup.com



RESPONSE: The information that was provided with this submission was a combination of the drawings for the school building, verified site information, and documents from the online Franklin County GIS website

3. This preliminary review does not constitute a comprehensive engineering design review. A formal site civil review will be conducted upon the approval of the final development plan (*Informational Comment*).

RESPONSE: It is understood that this preliminary review is just that, preliminary. The formal site review and approval will come after the FDP has been approved.

4. Do not disrupt existing storm water runoff drainage patterns. Two catch basins are located near the proposed improvement location.

RESPONSE: The proposed building is in the specified location to not disrupt the existing stormwater system or drainage runoff pattern. The water is still able to continue to flow in the direction it was previously towards the two catch basins and down the grades to the west. The two existing storm sewer catch basin structures located in the existing drive.

5. Ensure proposed utilities do not conflict with existing storm sewer.

RESPONSE: The proposed utilities (gas and electric) are to be installed underground in a manner so as to not disrupt the existing stormwater system or impact the two existing storm sewer catch basin structures located in the existing drive. A general note has been added on sheet C1.2 stating "NEW UTILITIES SUPPORTING THE MODULAR UNIT (ELECTRIC AND GAS) ARE TO BE PLACED UNDERGROUND IN A MANNER TO NOT CONFLICT WITH OR INTERFERE WITH EXISTING STORMWATER DRAINAGE SYSTEM."

Item 6. **Parks (614) 342-4261**

6. No comments per Julie Predieri

RESPONSE: It is acknowledged that there are no current comments from the Parks department at this time.

Item 7. **Building (614) 342-4010**

7. No Comments were received. Building Permits will be required for the project please contact the Chief Building Official, Ken Fultz at 614-342-4013



with any questions you may have.

RESPONSE: We have received a Non-conformance letter/adjudication order from Kenneth W. Fultz, P.E. dated September 13, 2023 and responding to those comments in a separate response letter.

We appreciate your time and effort towards permitting this project.

Sincerely,

Jeffrey T. Hutcheson
Project Architect
The McKnight Group



November 17, 2023

McKnight and Hosterman Architects
3351 McDowell Rd PO Box 370
Columbus, OH 43210

RE: Project 425 S Hamilton Rd Final Development Plan

Dear McKnight and Hosterman Architects:

The following comments were generated from the review of the submitted plans and documents for the referenced project.

Engineering Project Administrator (614) 342-4056

1. This preliminary review does not constitute a comprehensive engineering design review. A formal site civil review will be conducted upon the approval of the final development plan. Be advised, this comment will remain for record keeping purposes, the other comments were marked as "resolved" based on the applicant's responses. The Engineering Department expects these comments will be addressed, as noted in their responses. *(Informational Comment)*

Parks (614) 342-4261

2. No Comments per Julie Predieri

Building (614) 342-4010

3. A phased plan approval was issued for the construction documents that were submitted for the building permit. Please refer to comments provided in that approval.

Fire District (welshp@mifflin-oh.gov)

4. The fire division has no objection or additional comments

Planning (614) 342-4025

5. Informational Comment: All Planning comments have been addressed.

If you have general comments or questions, please contact me at kelly.wicker@gahanna.gov or (614) 342-4025. If your questions are specific to a certain department's comments, please reach out to that department using the contact information provided with their comments above.

Sincerely,

Kelly Wicker
Planning and Zoning Coordinator



STAFF REPORT

Request Summary

The applicant is requesting approval of a Final Development Plan and Design Review for a modular classroom unit for Shepherd Church of the Nazarene at 425 South Hamilton Road. The property is located on the western side of Hamilton Road and is zoned RID – Restricted Institutional District. This zoning district designates the site as part of Design Review District 3 (DRD-3).

The applicant states that the modular classroom is necessary for the growing school population while the school works on a more permanent expansion project. The intent is for the modular classroom to be temporary and removed after three years or less.

The modular unit is 44 feet wide and 23 feet 4 inches deep and is 1,027 SF. It will be located to the rear of the school building off of an existing drive and will not be viewable from Rocky Fork Drive, Hamilton Road, or I-270 due to heavy vegetation.

The unit is pre-manufactured, and the façade consists of Hardie Panel siding and vinyl skirt panels, while the ramp and steps are constructed of pressure treated wood to be sealed with a UV protectant. Since its pre-manufactured, design options are very limited and much of the criteria for DRD-3 is not applicable. The Zoning Code does not have any landscaping requirements for these applications and therefore no landscaping is proposed.

Design Review

General review criteria for Design Review applications include the following:

- Are stylistically compatible with other new, renovated, and existing structures in the applicable Design Review District in order to maintain design continuity and provide protection of existing design environment.
- Contribute to the improvement and upgrading of the architectural and design character of the Design Review District.
- Contribute to the continuing economic and community vitality of the Design Review District
- Maintain, protect and enhance the physical surroundings of the Design Review District.

Final Development Plan

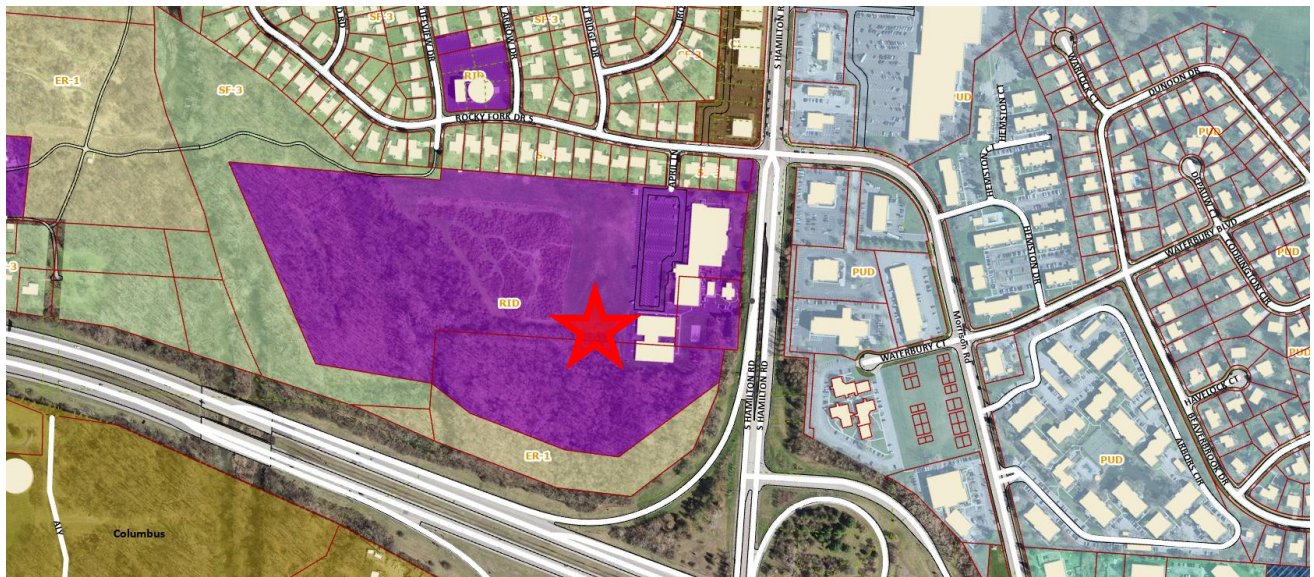
Planning Commission shall approve an FDP application if the following four conditions are met:

- The proposed development meets the applicable development standards of this Zoning Ordinance.
- The proposed development is in accord with appropriate plans for the area.
- The proposed development would not have undesirable effects on the surrounding area.
- The proposed development would be in keeping with the existing land use character and physical development potential of the area.

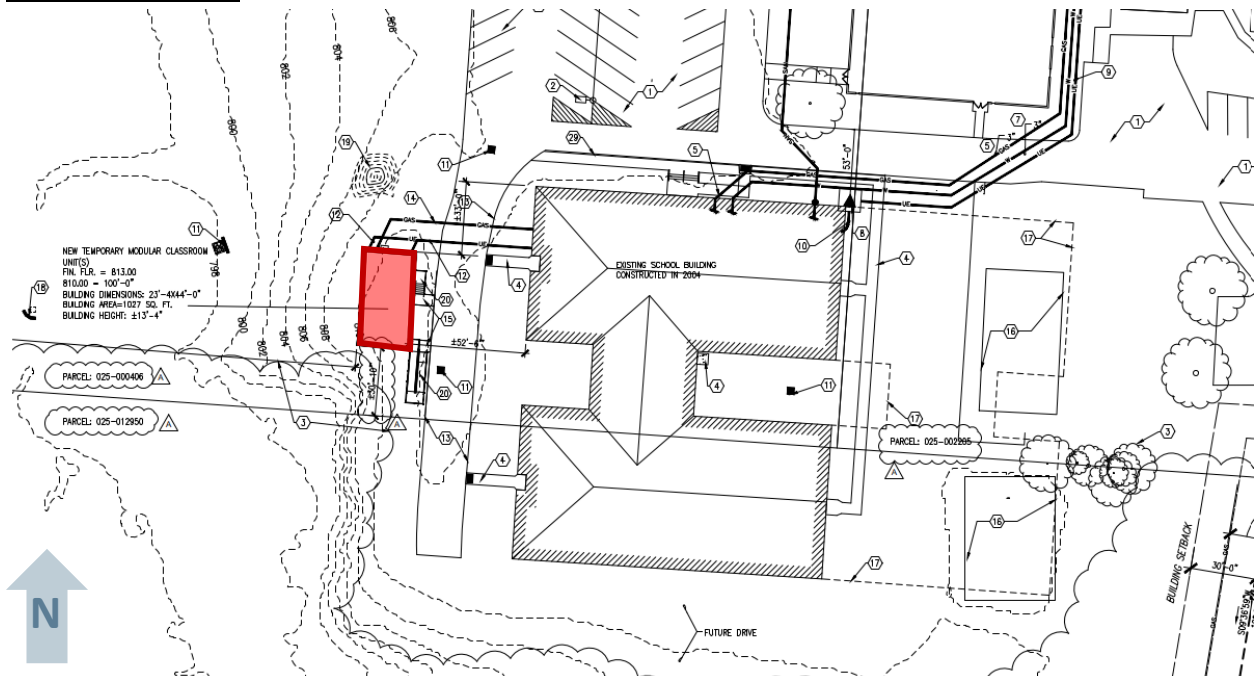
Staff Comments

Staff recommends approval of the Final Development Plan and Design Review applications as submitted. As the applicant stated, the modular classroom is necessary to account for the number of students and will be temporary. The proposed unit is not viewable from any right-of-way and does not require any variances. The site still exceeds parking requirements after the proposed changes. Planning Commission may add conditions for additional screening/landscaping or a time restriction if desired.

Location/Zoning Map



Submitted Site Plan



Respectfully Submitted By:

Maddie Capka

Planner