

ZONING DIVISION 200 S. Hamilton Road Gahanna, Ohio 43230 614-342-4025 zoning@gahanna.gov www.gahanna.gov

#### FINAL DEVELOPMENT PLAN APPLICATION

PROPERTY INFORMATION			
Project/Property Address:		Project Name/Business Name:	
425 s. Hamilton Rd., Gahanna, OH 432	230	Shepherd Churc	h of the Nazarene
Parcel #: 025-000406-00 -	Zoning: (see <u>Map</u> ) <b>RID</b>		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	Applicant Address:			
(Primary Contact): Jeff Hutcheson	3351 McDowell Rd./PO Box 370, Grove City, OH 43210			
Applicant E-mail:	Applicant Phone:			
jhutcheson@mcknightgroup.com	614-875-1689			
Business Name	·			
( <i>if applicable</i> ): McKnight & Hosterman Architects, Inc.				

	L CONTACTS ontacts 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.

Applica	nt Signature:	Jeffrey T. Hutcheson O: 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	e: <u>8/2/23</u>	
_		ADDITIONAL	INFO	RMATION ON NEXT F	PAGE
INTERNA USE	Zoning File I	No. FDP-0364-2023 DATE: 8-22-23	•	paid: <u>7000.00</u> date: <u>8<sup>,</sup>22-23</u>	Updated Apr 2022



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#### FINAL DEVELOPMENT PLAN APPLICATION - SUBMISSION REQUIREMENTS

TO BE COMPLETED/SUBMITTED BY THE APPLICANT:				
Review Gahanna Code <u>Chapter 1108</u> (visit <u>www.municode.com</u> ) & Chapter <u>914</u> , Tree Requirements				
Pre-application conference with staff. Contact <a href="mailto:zoning@gahanna.gov">zoning@gahanna.gov</a> to schedule				
The Final Development Plan shall include the following:				
a. Scale: Minimum - one inch equals 100 feet.				
b. The proposed name of the development, approximate total acreage, north arrow, and date				
c. The names of any public and/or private streets adjacent to or within the development				
d. Names and addresses of owners, developers and the surveyor who designed the plan				
e. Vicinity map showing relationship to surrounding development and its location within the community				
f. Natural features currently within proposed development, including drainage channels, tree lines, bodies of water, and other significant features				
<ul> <li>g. Zoning district, building and parking setbacks</li> <li>h. Proposed location, size and height of building and/or structures</li> </ul>				
<ul> <li>Location and dimensions of proposed driveways and access points</li> </ul>				
j. Proposed parking and number of parking spaces				
k. Distance between buildings				
A table of development calculations is required which shall include:				
a. Parking calculations: (square footage of proposed buildings, number of spaces per square foot, number of spaces				
required, and actual number of spaces proposed)				
b. 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)				
c. Setback calculations necessary when commercial abuts residential (if needed; see chapter <u>1167.20</u> )				
<ul> <li>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 <u>1163.08</u>)</li> </ul>				
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.				
List of contiguous property owners & their mailing address				
One set of pre-printed mailing labels for all contiguous property owners				
Application fee (in accordance with the Building & Zoning Fee Schedule)				
Application & all supporting documents submitted in digital format				
. Application & all supporting documents submitted in hardcopy format				
. One (1) copy 24"x36" or 11"x17" prints of the plans				
. 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.

#### 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.

PROPERTY OWNER lir h property, 23 property owner signature) date \_ day of \_AUgust 2023 Subscribed and sworn to before me on this Country of Frankel State of Stamp Sydney J. McGrath Notary Public Signature Notary Public, State of Ohio My Commission Expires 07-26-2027

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.

roperty Owner/Represental

JEFFREY T. HUTCHESON (applicant/representative/property owner name printed)

(gopligant representative/property owner signature)

8/17/23 (date)

Subscribed and sworn to b	refore me on this 17th day of August	20	
State of Ohio	County of Flankim		
Notary Public Signature: _	andrea J. Supron		Notary Public, State of Ohio My Commission Expires <u>4-24-28</u>

#### 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

<u> </u>				
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.



# SHEPHERD CHURCH OF THE NAZARENE **425 S. HAMILTON ROAD**

## **PROJECT GENERAL NOTES**

#### GENERAL:

- 1. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO PROVIDE COMPLETE WORKING
- SYSTEMS FOR NEW ELEMENTS. ALL CONTRACTORS SHALL PROVIDE NEW, UNDAMAGED MATERIALS UNLESS OTHERWISE
- SPECIFIED.
- STORE MATERIALS IN SUCH A MANNER AS NOT TO OVERSTRESS, OVERLOAD, OR OTHERWISE PUT AN UNSAFE LOAD ON ANY STRUCTURE DURING CONSTRUCTION.
- INSTALL ALL WORK IN ACCORDANCE WITH CURRENT APPLICABLE LOCAL, STATE, AND NATIONAL CODES' PUBLISHED STANDARDS, AND ACCEPTABLE CONSTRUCTION STANDARDS.
- ALL NEW WORK SHALL BE PLUMB AND LEVEL UNLESS NOTED OTHERWISE. ALL FIRE-RATED PARTITIONS SHALL EXTEND TO STRUCTURE ABOVE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING FIRE RATED PARTITIONS AROUND EQUIPMENT CABINETS AND OTHER ITEMS WHICH PENETRATE THESE PARTITIONS, AND SHALL BE RESPONSIBLE FOR FILLING ALL VOIDS IN FIRE-RATED PARTITIONS ABOVE CEILINGS TO MAINTAIN DESIGNATED FIRE-RATINGS.
- ITEMS INDICATED N.I.C. ARE "NOT IN CONTRACT". WORK IN SURROUNDING AREAS MAY REQUIRE ACCESS THROUGH OR IN N.I.C. INDICATED ROOMS. REPAIR ALL SURFACES AND SYSTEMS TO THEIR ORIGINAL CONDITION IF DISTURBED OR DAMAGED.
- ALL DIMENSIONS ARE TO FACE OF STRUCTURE OR EXISTING WALL FINISH SURFACE, UNLESS NOTED OTHERWISE. I.E. FACE OF STUD, FACE OF CONCRETE BLOCK. DISSIMILAR FINISH FLOOR MATERIALS SHALL MEET MEET UNDER CENTER OF DOORS LEAF,
- UNLESS NOTED OTHERWISE. 9. - TOP OF FLOOR DRAINS TO BE 1/2" BELOW FINISHED FLOOR ELEVATION UNLESS NOTED
- -OTHERWISE, SLOPE FLOOR TO THREE (3) FEET RADIUS IF NOT SPECIFIED OTHERWISE. 10. ALL BASES, INCLUDING CONCRETE PADS FOR MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT ARE THE RESPONSIBILITY OF THE TRADES INVOLVED UNLESS NOTED OTHERWISE. 11. SUB-CONTRACTOR SHALL DETERMINE ERECTION PROCEDURE AND SEQUENCE AND PROVIDE
- BRACING, ETC. THAT MAY BE REQUIRED TO COMPLETE THE WORK. 12. VERIFY ROUGH OPENINGS WITH MANUFACTURERS PRIOR TO FRAMING
- 13. FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- 14. FIELD VERIFY ALL EXISTING SITE DIMENSIONS PRIOR TO START OF CONSTRUCTION. 15. FIREBLOCKING SHALL BE INSTALLED IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED OR STUDDED OFF SPACES OF MASONRY OR CONCRETE -WALLS, AND AT THE CEILING AND FLOOR OR ROOF LEVELS. FIRESTOPPING SHALL BE -INSTALLED AT ALL INTERCONNECTIONS BETWEEN VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS OVER CABINETS, DROP CEILINCS, COVE CEILINCS, ETC. 16. HANDRAILS, GUARDRAILS, BALUSTERS, AND NEWEL POSTS SHALL COMPLY WITH CURRENT
- LOCAL CODES. 17. SCHEDULE ALL SHUT DOWNS OF UTILITIES WITH THE OWNER IN ADVANCE AS SPECIFIED. PREPARE SITE BEFOREHAND TO MINIMIZE THE DURATION OF SHUT DOWN. COMBINE SHUT
- DOWNS WHERE POSSIBLE WITH ALL TRADES. 18. THE EXISTING BUILDING ENVELOPE SHALL BE MAINTAINED IN A WATER TIGHT CONDITION AT ALL TIMES.
- 19. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EMERGENCY EGRESS FOR ALL OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION.
- 20. DEFINITIONS: FURNISH-TO SUPPLY, PURCHASE, PROCURE, ACQUIRE, DELIVER TO THE SITE COMPLETE WITH RELATED ACCESSORIES AND TRANSFER TO OTHERS FOR INSTALLATION INSTALL-TO RECEIVE, UNLOAD, DISTRIBUTE, CONSTRUCT, ERECT, MOUNT, AND CONNECT COMPLETE WITH RELATED ACCESSORIES AND READY FOR SAFE AND REGULAR OPERATION AS APPLICABLE PROVIDE-TO FURNISH, INSTALL, AND PAY ALL COSTS IN CONNECTION THEREWITH.

#### COORDINATION OF TRADES:

- EACH CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES. GENERAL CONTRACTOR SHALL THICKEN WALLS AS REQUIRED TO ACCOMMODATE PLUMBING PIPES, ELECTRICAL PANEL BOXES, AND SIMILAR ITEMS. COORDINATE WITH THE ARCHITECT PRIOR TO CONSTRUCTION.
- EACH SUB-CONTRACTOR SHALL OBTAIN AND PAY FOR REQUIRED BUILDING PERMIT, SCHEDULE REQUIRED INSPECTIONS, AND COORDINATE WITH ALL OTHER TRADES.

#### DISCREPANCIES/ CLARIFICATIONS:

- CONTRACTOR SHALL VERIFY ALL ELEVATIONS, DIMENSIONS, AND EXISTING CONDITIONS PRIOR
- TO INITIATING CONSTRUCTION. DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONS. IF A REQUIRED DIMENSION IS NOT
- INDICATED. CONTACT THE ARCHITECT FOR DETERMINATION. DETAILS ARE GENERALLY TYPICAL AND ARE NOT TO BE CONSTRUED AS LIMITED TO THOSE
- AREAS SPECIFICALLY INDICATED. REVIEW ANY QUESTIONS OR CONFLICTING INFORMATION WITH THE ARCHITECT PRIOR TO INSTALLATION. WHERE A DISCREPANCY IS FOUND BETWEEN EXISTING FIELD CONDITIONS AND/OR BETWEEN ARCHITECTURAL, STRUCTURAL, PLUMBING, FIRE PROTECTION, HVAC, OR ELECTRICAL
- CONTRACT DOCUMENTS, NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION PRIOR TO BIDDING, FABRICATION, OR INSTALLATION.

NO.	ITEM	FURNISHED AND INSTALLED/DONE BY OWNER	FURNISHED BY OWNER, INSTALLED BY CONT'R.
1.	ALL RISK INSURANCE	V	
2.	TEMPORARY UTILITIES	V	
3.	FURNITURE		
4.	EXTERIOR SIGNAGE		
5.	INTERIOR SIGNAGE	V	
6.	WINDOW TREATMENTS		
7.	ENTRY MATS	~	
8.	TELEPHONE/INTERCOM SYSTEMS		
9.	SECURITY SYSTEMS		
10.	ELECTRONIC INFO. DISPLAYS		
11.	I.T. / WIFI EQUIPMENT/CONN.	V	
12.			

# NOTES TO BUILDING PLANS EXAMINER

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.

## STATEMENT OF SPECIAL INSPECTIONS

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. FILED WELDING OF TIE DOWN ANCHORS

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. 56503

Group

**McKnight** 

#### DEMOLITION WORK:

- 1. WHERE PARTITIONS AND WALLS ARE INDICATED TO BE REMOVED, ALL PLUMBING, - MECHANICAL, AND ELECTRICAL WORK CONTAINED IN THE WALL OR ATTACHED SHALL BE - REMOVED. CAP EXISTING LINES BEHIND REMAINING SURFACES, OR REMOVE TO NEAREST
- ALLOWABLE LOCATION, OR AS SPECIFIED. 2. DEMOLITION WORK SHALL BE EXECUTED IN CONFORMANCE WITH ALL APPLICABLE CODES
- AND ORDINANCES. BRACE EXISTING STRUCTURAL ELEMENTS DURING DEMOLITION AS REQUIRED. 4. ALL EXISTING COUNTER TOPS, PLUMBING AND LIGHT FIXTURES, DOOR HARDWARE, CABINET HARDWARE, TOILET ACCESSORIES, OR OTHER OWNER EQUIPMENT INDICATED FOR DEMOLITION
- SHALL BE DELIVERED TO THE OWNER'S DESIGNATED PLACE ON-SITE. COORDINATE WITH -THE OWNER FOR DISPOSAL OF NON-SALVAGEABLE ITEMS. REMOVE EXISTING FINISHES AT LOCATIONS WHERE NEW FINISHES ARE SCHEDULED, UNLESS
- NOTED OTHERWISE. REPLACE OR REPAIR ANY EXISTING FINISHES SCHEDULED TO REMAIN, WHICH ARE DAMAGED DURING DEMOLITION (I.E. CEILING GRID, WALL COVERING, FLOOR COVERING, ETC.).

#### CEILING INSTALLATION:

1. - ALL LAY-IN CEILING GRID SHALL BE EQUAL FROM OPPOSING EDGES OF ROOM UNLESS -NOTED OTHERWISE. AVOID CUT SIZES SMALLER THAN 3 INCHES.

PREPARATION FOR NEW FINISHES:

- 1. -FILL ALL HOLES IN FLOOR AT LOCATIONS OF FORMER PLUMBING, ELECTRICAL, OR HVAC WORK, PREPARE FLOOR FOR NEW FINISHES. 2. -- BRING EXISTING FLOOR SURFACES TO A SMOOTH, LEVEL SURFACE PRIOR TO INSTALLATION-OF NEW FLOOR SURFACES. FILL ALL DEPRESSED AREAS WITH LIGHTWEIGHT CONCRETE FILL, SUCH AS WHERE OLD PARTITIONS ARE REMOVED. USE UNDERLAYMENT TO FILL ALL - CRACKS: JOINTS.AND UNEVEN AREAS IN THE FLOOR TO REMAIN. PRIOR TO INSTALLATION
- OF NEW FLOOR FINISH, THE FLOOR SURFACE SHALL BE MADE FREE OF ALL BLEMISHES, - UNEVENNESS AND EVIDENCE OF FORMER FLOOR FINISHES THAT COULD TELEGRAPH THROUGH THE NEW FLOOR FINISH - WHERE EXISTING WALLS ARE SHOWN AS REMAINING AND SCHEDULED FOR NEW FINISHES,
- REMOVE EXISTING FINISHES AND FILL HOLES, INCLUDING THOSE RESULTING FROM THE REMOVAL OF WALL DEVICES AND WALL MOUNTED EQUIPMENT. REPAIR ALL DAMAGED
- 4. FILL ALL EXISTING AND NEW VOIDS IN RATED PARTITIONS AND SMOKE PARTITIONS ABOVE - CEILINGS AS REQUIRED TO MAINTAIN DESIGNATED FIRE RATING.

#### CUTTING AND PATCHING:

- 1. THE CONTRACTOR SHALL NOT CUT STRUCTURAL WORK IN A MANNER RESULTING IN A
- REDUCTION OF LOAD CARRYING CAPACITY OR LOAD/DEFLECTION RATIO.
- 2. CUTTING OF JOISTS OR BEAMS IS PROHIBITED EXCEPT AS INDICATED ON THE DRAWINGS
- AND AS ALLOWED BY THE ARCHITECT OR STRUCTURAL ENGINEER ON A PER-CASE BASIS. 3. -- MAINTAIN EXISTING WALL ABOVE WHERE POSSIBLE, AND PROVIDE LINTELS WHERE REQUIRED -FOR NEW DOOR-OPENINGS IN EXISTING WALLS.

#### WOOD BLOCKING:

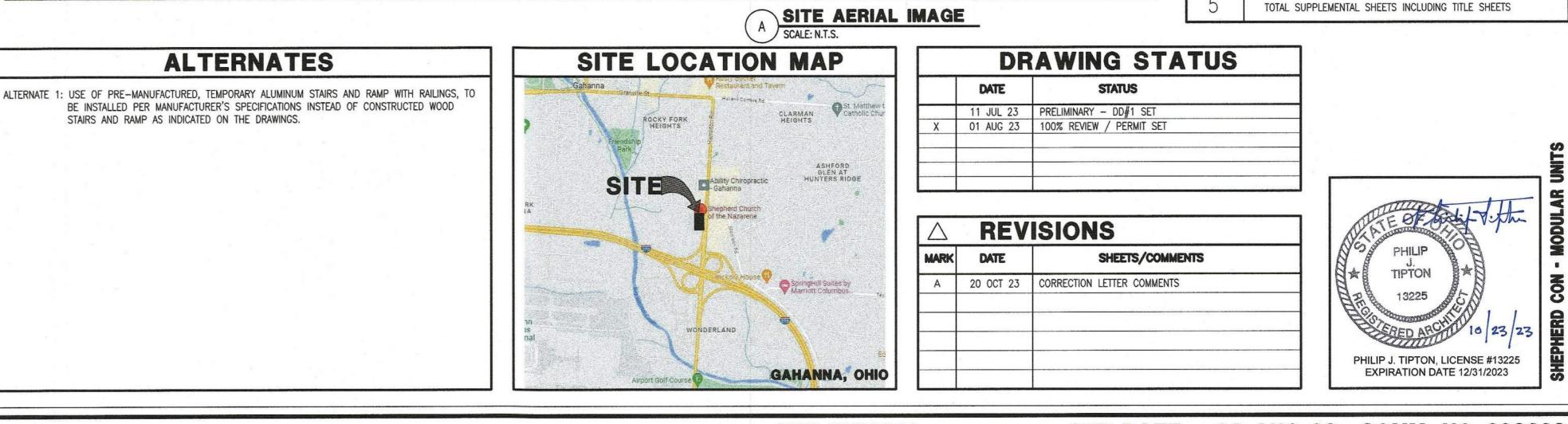
- 1. PROVIDE BLOCKING AS REQUIRED IN WALLS AND CEILINGS TO ANCHOR ALL WALL AND - CEILING-MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO, MILLWORK / CASEWORK, WALL-- CABINETS, HANDRAILS, COAT RACKS, DOOR STOPS, OWNER EQUIPMENT, SHELVING, CUBICLE
- INCLUDING ITEMS SPECIFIED N.I.C. OR BY OWNER. 2. ALL WOOD BLOCKING TO BE 2X4 (OR 1X6) MINIMUM, FIRE RETARDANT TREATED LUMBER.



**ALTERNATES** 

STAIRS AND RAMP AS INDICATED ON THE DRAWINGS.









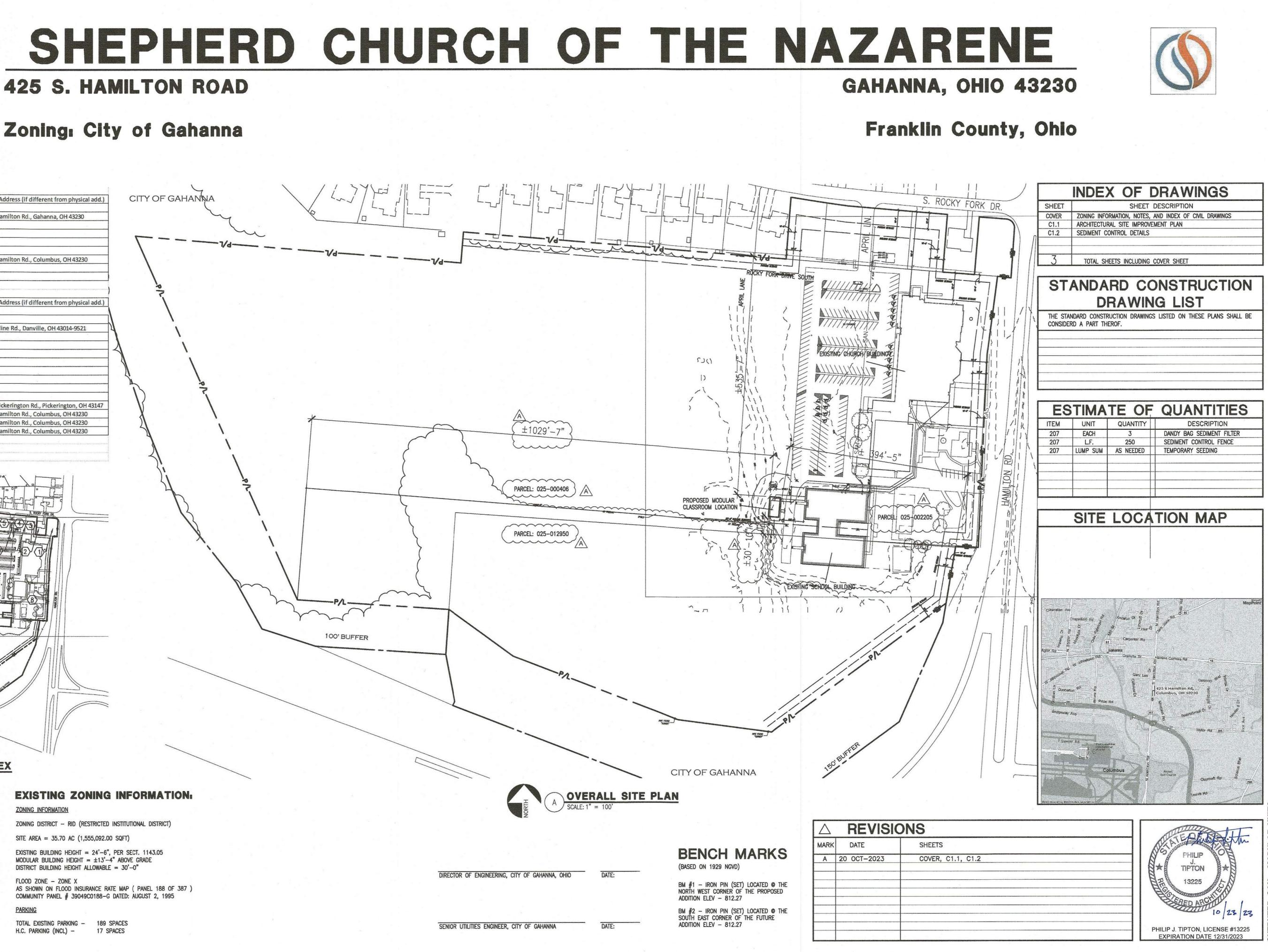
SHEET	SHEET DESCRIPTION
COVER	GENERAL PROJECT NOTES, SITE LOCATION, INDEX OF DRAWINGS
-	CIVIL DRAWINGS COVER SHEET & ZONING INFORMATION
C1.1	ARCHITECTURAL SITE DEVELOPMENT PLAN
C1.2	STORMWATER AND SEDIMENT CONTROL DETAILS
S0.1	STRUCTURAL NOTES
S1.1	FOUNDATION PLAN
S5.1	FOUNDATION DETAILS
A101	FLOOR PLAN, SCHEDULES, & NOTES
A201	ELEVATIONS & NOTES
A701	STAIR AND RAMP DETAILS & NOTES
SP100	SPECIFICATIONS
ME1	MECHANICAL ELECTRICAL PLAN & NOTES
E1	ELECTRICAL RISER AND LOAD CALCULATIONS
13	TOTAL SHEETS INCLUDING COVER SHEET

SUPPLEMENTAL DRAWINGS		
SHEET	SHEET DESCRIPTION	
	MANUFACTURERS DESIGN SET OF DRAWINGS	
	SPECIALIZED STRUCTURES INC.	
1 OF 5	COVER SHEET	
2 OF 5	FLOOR PLAN	
3 OF 5	ELEVATIONS	
4 OF 5	FOUNDATION	
5 OF 5	CROSS SECTION	
	· · · · · · · · · · · · · · · · · · ·	
5		
5	TOTAL SUPPLEMENTAL SHEETS INCLUDING TITLE SHEETS	

SET NUMBER

SET DATE - 08 AUG 23 COMM. NO. 223223



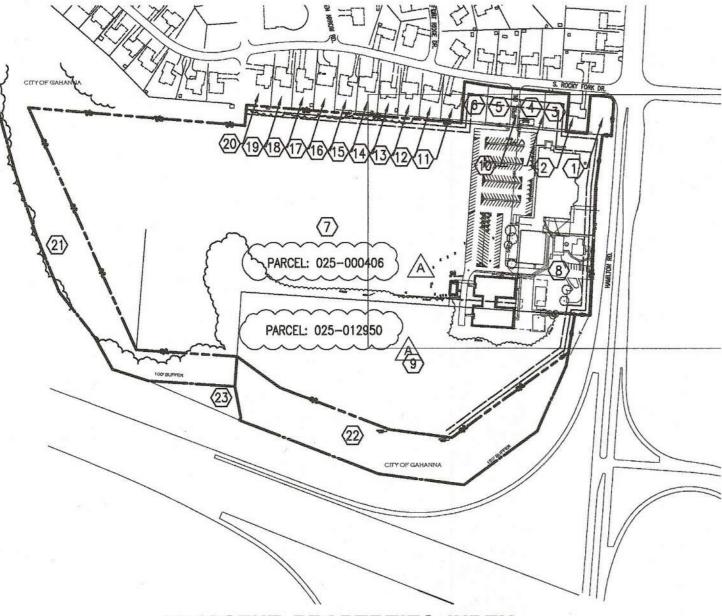


# Zoning: City of Gahanna

## **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**

EXISTING BUILDING HEIGHT = 24'-6", PER SECT. 1143.05 MODULAR BUILDING HEIGHT =  $\pm 13'-4"$  Above grade

FLOOD ZONE - ZONE X AS SHOWN ON FLOOD INSURANCE RATE MAP ( PANEL 188 OF 387 ) COMMUNITY PANEL # 39049C0188-G DATED: AUGUST 2, 1995



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. 56503



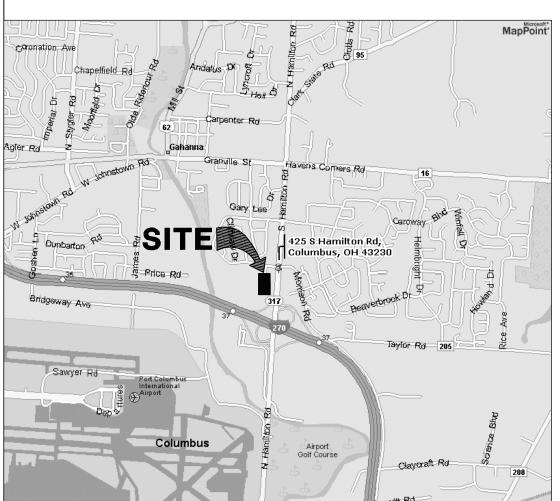
**SET NUMBER** 

SET DATE - 08 AUG 23 COMM. NO. 223223

NOTE:	NOT ALL S	LEGEND (MBOLS LISTED BELOW ARE E TO THIS PROJECT
EXISTING	PROPOSED	DESCRIPTION
-0-	•	UTILITY POLE
$\bigtriangleup$		PAD MTD. TRANSFORMER
0-□	•=	LIGHT POLE
4	€	GROUND LIGHT
ж,	*	FIRE HYDRANT
⊞		WATER METER
O		GAS METER
0 <sup>C.0.</sup>	• <sup>c.o.</sup>	CLEAN OUT
o <sup>Y.D.</sup>	● <sup>Y.D.</sup>	YARD DRAIN
		CATCH BASIN
S		SANITARY MANHOLE
Ø		DRAINAGE MANHOLE
←	·	GUY WIRE
——— F	P/L	PROPERTY LINE
R	2/W	RIGHT-OF-WAY LINE
@	0.00	NEW GRADE CONTOUR WITH ELEVATION
00	0.00	EXISTING GRADE CONTOUR WITH ELEVATION
(	Gas	EXISTING UTILITY LINE TO REMAIN
————-F	<sup>0</sup> wr	EXISTING UTILITY LINE TO BE REMOVED/ABANDONED
	StM	PROPOSED NEW UTILITY SERVICE LINE

## 

- 1. EXISTING ASPHALT PARKING LOT TO REMAIN UNCHANGED.
- 2. EXISTING SITE LIGHT POLES TO REMAIN UNCHANGED.
- 3. EXISTING TREES TO REMAIN UNCHANGED. PROTECT FROM
- CONSTRUCTION. 4. EXISTING CONCRETE WALK TO REMAIN UNCHANGED.
- 5. EXISTING 3" GAS SERVICE LINE TO REMAIN UNCHANGED.
- 6. EXISTING GAS METER TO REMAIN UNCHANGED.
- 7. EXISTING WATER SERVICE LINE TO REMAIN UNCHANGED.
- 8. EXISTING POWER COMPANY TRANSFORMER TO REMAIN UNCHANGED.
- 9. EXISTING UNDERGROUND PRIMARY ELECTRIC SERVICE TO REMAIN UNCHANGED.
- 10. EXISTING UNDERGROUND SECONDARY ELECTRIC LINES TO REMAIN UNCHANGED.
- 11. EXISTING STORMWATER STRUCTURE TO REMAIN. PROTECT FROM SEDIMENT RUNOFF AS NEEDED.
- 12. APPROXIMATE LOCATION OF NEW UNDERGROUND ELECTRIC LINE(S) TO FEED NEW MODULAR UNITS. SEE SHEETS "E1-1" AND "ME-1" FOR ADDITIONAL INFORMATION. AFTER CONDUITS INSTALLED, TRENCH AND BACKFILL AS REQUIRED.
- 13. LIMITS OF EXISTING ASPHALT DRIVE. UTILITY LINES ARE TO BE BORED UNDER DRIVE IF POSSIBLE TO PREVENT DIGGING UP DRIVE.
- 14. NEW GAS LINE FEEDING MODULAR UNIT HEATING UNIT TIED INTO EXISTING GAS SERVICE AS REQUIRED. SEE THE TOR ADDITIONAL INFORMATION. AFTER GAS LINE IS, INSTALLED, BACKFILL AS REQUIRED.
- 15. NEW CONCRETE APPROACH FOR STAIRS AND RAMP FOR THE MODULAR UNIT(S). SEE SHEET A101 FOR DIMENSIONS.
- 16. EXISTING PLAYGROUND AREA/STRUCTURE TO REMAIN. NO WORK IS TO BE DONE IN THIS AREA OF THE SITE.
- 17. PROPOSED FUTURE BUILDING CONSTRUCTION.
- 18. EXISTING SEDIMENT CONTROL STRUCTURE TO REMAIN AND PROTECTED AS REQUIRED.
- 19. PROPOSED LOCATION OF SOIL PILE FROM EXCAVATED FOOTINGS AND WALKS. APPROX. SOIL VOLUME = 26.3 CU. YRDS.
- 20. PROPOSED WOODEN STEPS AN/OR RAMP UP TO FLOOR OF MODULAR CLASSROOM UNIT.





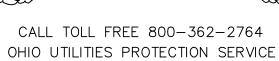


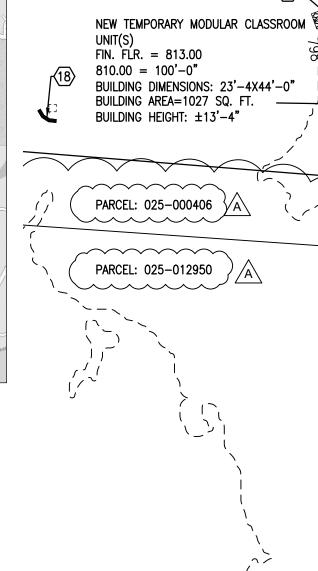
SCALE: N.T.S

2 WORKING DAYS BEFORE YOU DIG

SITE LOCATION MAP







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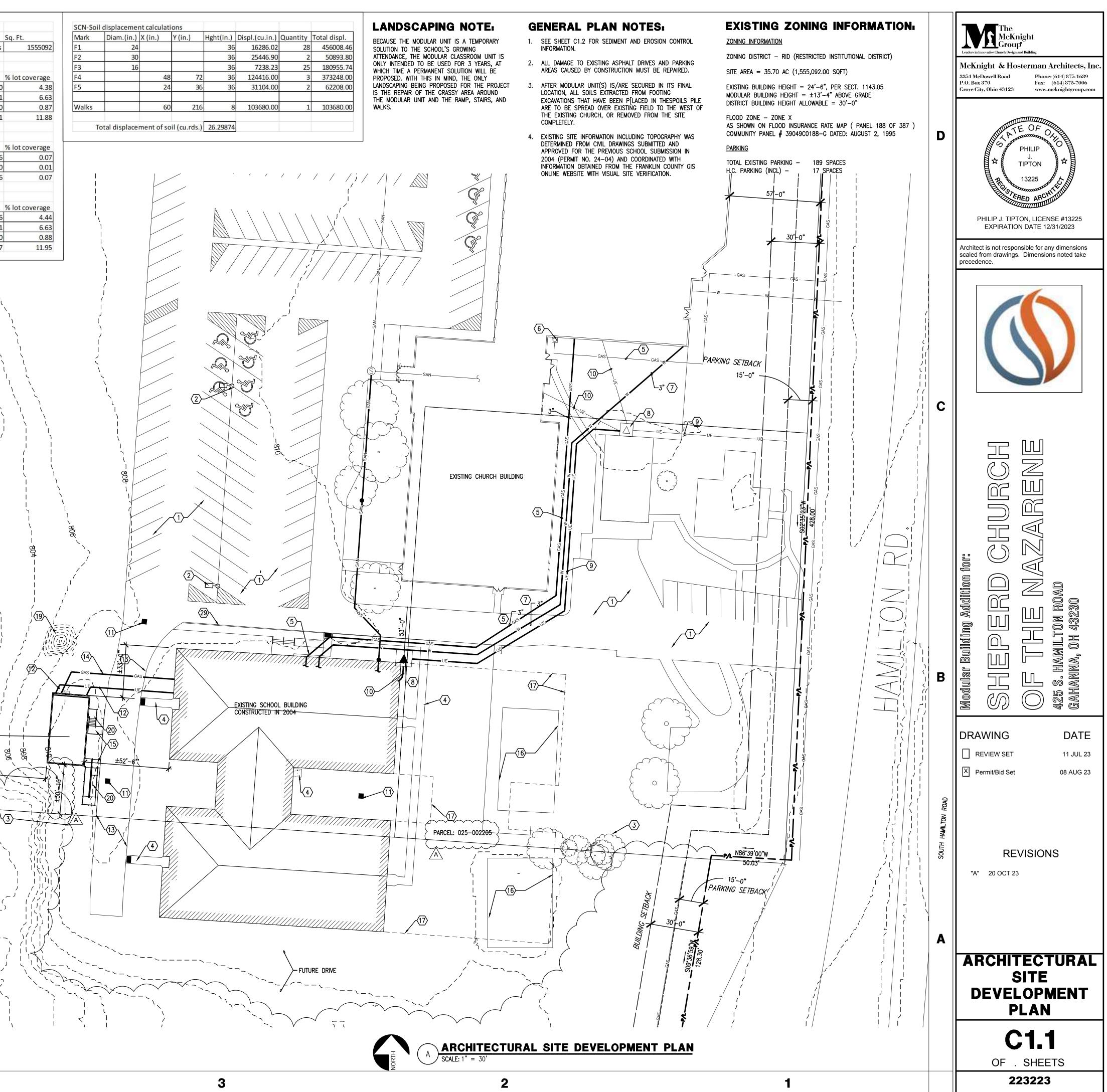
SCN-Lot coverage bre	akdown	
	Acres	
Site area:	35.7 acres	
Existing buildings		
ltem	Sq. Ft.	1
Existing buildings	68060	
Parking/drives	103101	
Concrete/walks	13600	
TOTAL	184761	
ADDITION		
Item	Sq. Ft.	1
Modular building	1026	
Concrete walk/ramp	90	
TOTAL	1116	
TOTAL PROPOSED		
Item	Sq. Ft.	
Buildings	69086	
Parking/drives	103101	Ι

Concrete/walks

TOTAL

13690

185877



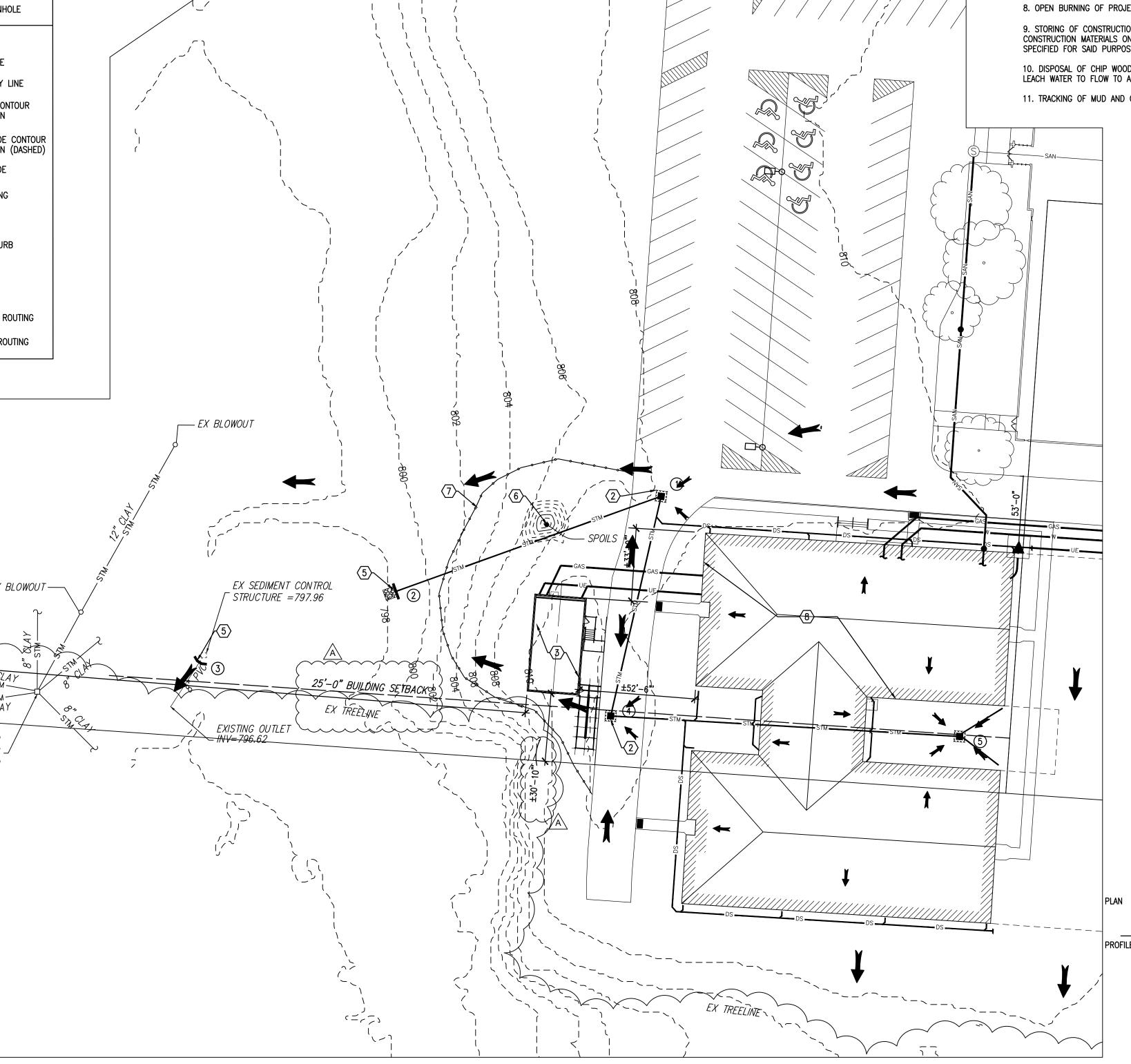
NOTE:		NG LEGEND YMBOLS LISTED BELOW ARE	
EXISTING		e to this project Description	S
-0-		UTILITY POLE	
		PAD MTD. TRANSFORMER	
 ~□		LIGHT POLE	
×	×	GROUND LIGHT	
ж.	*	FIRE HYDRANT	
⊞		WATER METER	
0 0 <sup>c.0.</sup>	• <sup>c.o.</sup>	GAS METER	
0 <sup>4.D.</sup>	Y.D.	CLEAN OUT YARD DRAIN	
		CATCH BASIN	
S S	•	SANITARY MANHOLE	
Ø		DRAINAGE MANHOLE	
←		GUY WIRE	
_	9/L	PROPERTY LINE	
	:/W	RIGHT-OF-WAY LINE	
@	0.00	NEW GRADE CONTOUR WITH ELEVATION	
	0.00 ——— FG	EXISTING GRADE CONTOUR WITH ELEVATION (DASHED) FINISHED GRADE	
	TC	TOP OF CASTING	
	тос	TOP OF CASHING	
	BOC	BOTTOM OF CURB	
	TP	TOP OF PIER	
	HP	HIGH POINT	
		MAJOR FLOOD ROUTING	
	_	STORMWATER ROUTING	
		EX BLOWOUT	STAR STAR

## 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

# THE SITE COMPLETELY.

4. 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.



SCALE:

## **GENERAL PLAN NOTES:**

1. SEE SHEET C1.1 FOR SITE IMPROVEMENT INFORMATION. 2. ALL DAMAGE TO EXISTING ASPHALT DRIVES AND PARKING AREAS CAUSED BY CONSTRUCTION MUST BE REPAIRED.

3. 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

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.

### 

- 1. PROPOSED LIMITS OF SILT FENCE (APPROX. 250'-0").
- 2. 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.
- 4. LIMITS OF EXISTING ASPHALT DRIVE. UTILITY LINES ARE TO BE BORED UNDER DRIVE IF POSSIBLE TO PREVENT DIGGING UP DRIVF
- 5. EXISTING SEDIMENT CONTROL STRUCTURE TO REMAIN AND PROTECTED AS REQUIRED.
- 6. PROPOSED LOCATION OF SOIL PILE FROM EXCAVATED FOOTINGS.
- 7. APPROXIMATE LOCATION OF PROPOSED SILT FENCING FOR EROSION CONTROL.
- 8. 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:

#### 1. DISPOSING OF EXCESS OR UNSUITABLE EXCAVATED MATERIAL IN WETLANDS OR FLOODPLAINS, EVEN WITH THE PERMISSION OF THE PROPERTY OWNER.

2. INDISCRIMINATE, ARBITRARY, OR CAPRICIOUS OPERATION OF EQUIPMENT IN ANY STREAM CORRIDORS, WATERS, ANY WETLANDS, OR ANY AREA OUTSIDE OF THE PROPOSED WORK AREAS.

3. PUMPING OF SEDIMENT LADEN-WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, STREAM CORRIDORS, WETLANDS, OR STORM DRAINS.

4. DISCHARGING POLLUTANTS SUCH AS CHEMICALS, FUEL, LUBRICANTS, BITUMINOUS MATERIALS, RAW SEWERAGE, AND OTHER HARMFUL WASTE INTO OR ALONGSIDE OF RIVERS, STREAMS, IMPOUNDMENT, OR INTO NATURAL OR MAN-MADE CHANNELS LEADING THERETO.

5. PERMANENT OR UNSPECIFIED ALTERATION OF FLOW LINE OF A STREAM.

6. DAMAGING VEGETATION OUTSIDE OF THE PROPOSED WORK LIMITS, INSIDE NO-BUILD ZONES, AND TREE PROTECTION AREAS.

#### 7. DISPOSAL OF TREES, BRUSH AND OTHER DEBRIS IN ANY STREAM CORRIDORS, WETLANDS, SURFACE WATERS, OR ANY OTHER UNSPECIFIED LOCATION.

8. OPEN BURNING OF PROJECT DEBRIS WITHOUT A PERMIT.

9. STORING OF CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STOCKPILING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT PREVIOUSLY SPECIFIED FOR SAID PURPOSE.

10. 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.

PRESERVING EXISTING VEGETATION

AND OTHER VEGETATION.

SILT FENCE & STRAW BALES

TO POND BEHIND FENCE. \* ENTRENCH 6 INCHES DEEP.

REQUIRE SILT FENCE.

FOR TOPSOIL PILES.

SEDIMENT CLEANUP

MARCH 15 TO MAY 31.

SILT FENCE).

SOIL PILES

\* PUT UP BEFORE ANY OTHER WORK IS DONE.

UP SIDESLOPES A SHORT DISTANCE.

FENCE OR STRAW BALE HEIGHT.

\* MAINTAIN UNTIL A LAWN IS ESTABLISHED.

STREAM, LAKE, WETLAND, DITCH OR DRAINAGEWAY.

\* SURROUND WITH STRAW BALES OR SILT FENCE.

TRACKED ONTO THE ROAD AND IN THE GUTTERS.

CONSTRUCTION OF A FILTER BARRIER

FENCE FOR DAMAGE OR SEDIMENT BUILDUP.

11. TRACKING OF MUD AND OTHER CONSTRUCTION DEBRIS ONTO ROADWAY.

SEDIMENT/STORMWATER MANAGEMENT PLAN

3

2

## SEDIMENTATION NOTES:

1. 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.

2. ALL TRENCH DEWATERING EFFLUENT SHALL BE DISCHARGED THROUGH A SEDIMENTATION BASIN OR OTHER SETTLING DEVICE APPROVED BY FRANKLIN SOIL AND WATER CONSERVATION DISTRICT.

3. 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.

4. TEMPORARY / PERMANENT SEED SHALL BE APPLIED TO DENUDED AREAS WITHIN 7 DAYS IF THEY ARE TO REMAIN DORMANT FOR MORE THAN 21 DAYS.

5. TEMPORARY / PERMANENT SEED SHALL BE APPLIED TO DENUDED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.

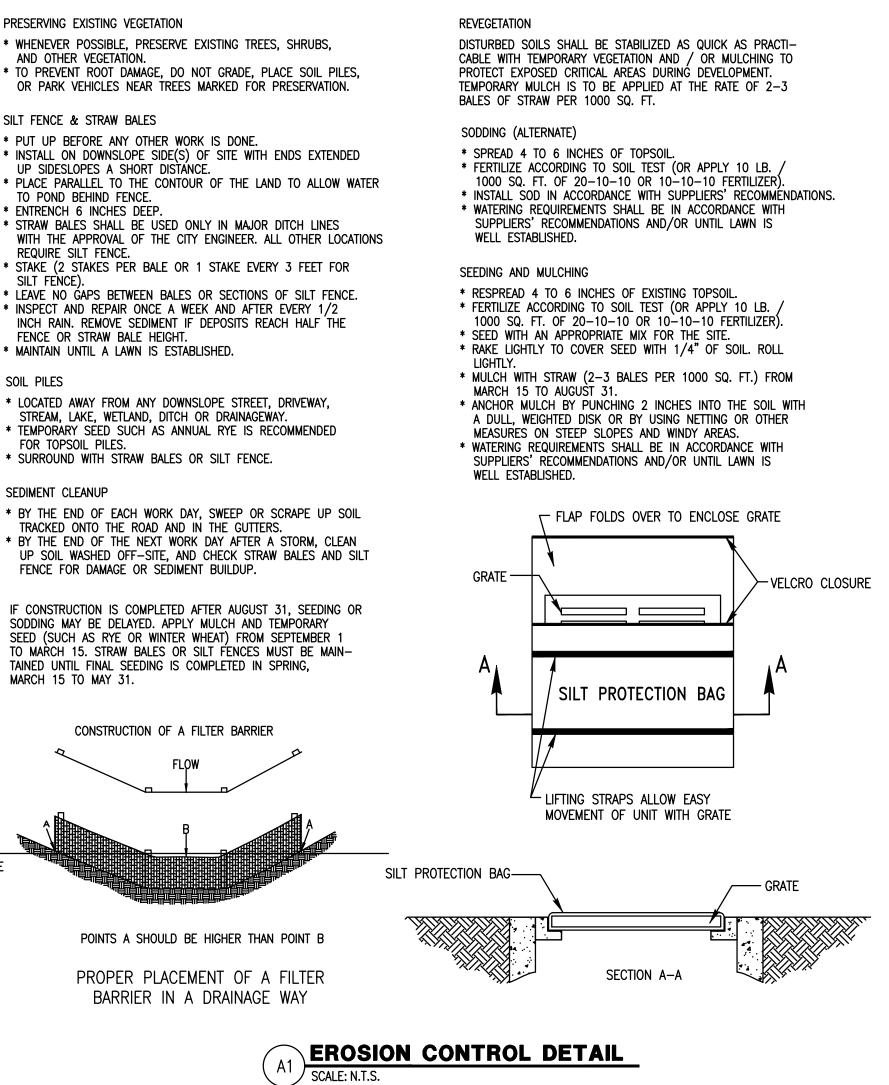
6. SHEET FLOW RUNOFF FROM DENUDED AREAS SHALL BE DIVERTED TO AN APPROVED SETTLING STRUCTURE.

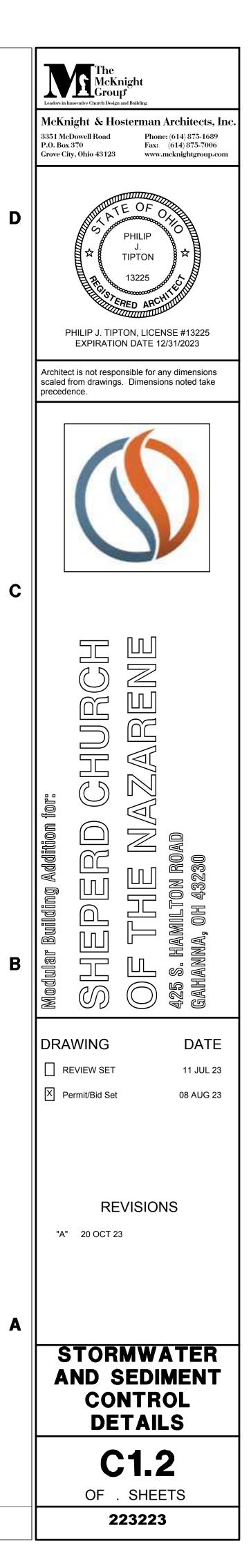
7. NO-BUILD ZONES AND TREE PRESERVATION AREAS SHALL BE CLEARLY IDENTIFIED BY HIGH-VISIBILITY ORANGE PERIMETER FENCING.

8. PERSONNEL FROM FRANKLIN SOIL AND WATER CONSERVATION DISTRICT SHALL MAKE ROUTINE INSPECTIONS TO ENSURE THE EROSION AND SEDIMENTATION PLAN COMPLIANCE.

9. 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.

10. 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.





\* WHENEVER POSSIBLE, PRESERVE EXISTING TREES, SHRUBS, \* TO PREVENT ROOT DAMAGE, DO NOT GRADE, PLACE SOIL PILES,

\* INSTALL ON DOWNSLOPE SIDE(S) OF SITE WITH ENDS EXTENDED

\* STAKE (2 STAKES PER BALE OR 1 STAKE EVERY 3 FEET FOR \* LEAVE NO GAPS BETWEEN BALES OR SECTIONS OF SILT FENCE.

\* LOCATED AWAY FROM ANY DOWNSLOPE STREET, DRIVEWAY,

\* BY THE END OF THE NEXT WORK DAY AFTER A STORM, CLEAN UP SOIL WASHED OFF-SITE, AND CHECK STRAW BALES AND SILT

<u>30</u>	VERNING CODE: 2017 ( DEAD LOADS							
	A. TOTAL DEAD LOAD ROOF LIVE LOADS:		= 25.0 PSF	-				ITEN
	A. MINIMUM ROOF LIVE FLOOR LIVE LOADS: A. FIRST FLOOR		= 20 PSF = 50 PSF		MAS	SONRY CONST		
	A. FIRST FLOOR ROOF SNOW DESIGN PARAMI A. GROUND SNOW LOA	ETERS	= 50 PSF = 20.0 PSF			SPECIAL I 402/ACI	NSPECTION	FESTING PER THE QU
	B. FLAT ROOF SNOW LOA C. MINIMUM ROOF DES	DAD Pf	= 15.4 PSF = 20.0PSF	:				CONNECTORS
	D. SNOW EXPOSURE F	ACTOR Ce TANCE FACTOR I	= 1.0 = 1.0			GROUTIN COLD WE	G ATHER PROT	ECTION
	F. THERMAL FACTOR C G. DRIFTING AND UNBA		= 1.1		CON			
	WIND DESIGN PARAMETERS A. ULTIMATE DESIGN W		= 115 MPH	ł		INSPECT /	ANCHORS CA	ST IN CONCRETE
	B. NOMINAL DESIGN WI C. RISK CATEGORY D. WIND EXPOSURE CA		= 89 MPH = II = C			VERIFY U	SE OF REQUI	RED DESIGN MIX
	E. INTERNAL PRESSUR \SEISMIC DESIGN PARAMETE A. SEISMIC IMPORTANC	E COEFFICIENT RS CE FACTOR = 1.0	= C = +/-0.18				I SLUMP AND	PLACEMENT, FABRIC AIR CONTENT TESTS
	D. MAXIMUM CONSIDEF E. SITE CLASS = B	RED EARTHQUAKE GROUND N		Γ 0.2 SECOND PERIOD, SS = 11.6%G Γ 1.0 SECOND PERIOD, S1 = 6.1%G		INSPECT I		OF SPECIFIED CURI FOR SHAPE, LOCATIC
	F. SDS = 0.124G G. SD1 = 0.098G H. SEISMIC DESIGN CA	TEGORY = B			SOI		ATERIALS BE	LOW SHALLOW FOU
	I. BUILDING SYSTEM: J. SEISMIC RESISTING:	PANELS.		EMS D WALLS WITH STRUCTURAL WOOD				ACITY ARE EXTENDED TO F
	K. RESPONSE MODIFICATI L. DESIGN BASE SHEAR:	ON FACTOR, R: 6.5 0.018W				PERFORM	1 CLASSIFICA	TION AND TESTING C
U	LDING DESIGN NOTES:					PLACEME PRIOR TO	NT AND COM	ER MATERIALS, DENS PACTION OF COMPA OF COMPACTED FIL
		7 OHIO BUILDING CODE. DEF AND FOUND THAT THE REQU SET FORTH BY CHAPTER 16 (	RWACTER IREMENTS OF THE CU		)	HAS BEEN	N PREPARED	PROPERLY.
	ORIGINAL DESIGN FIRM:			SPECIALIZED STRUCTURES INC. 2400 SPRINGFIELD CHURCH ROAD	) <u>R</u> E	EINFORCIN	IG FOR CO	NCRETE:
	ORIGINAL THIRD PARTY APPF	ROVAL AND INSPECTION AGE	NCY:	WILLACOOCHE, GA 31650 RADCO 5801 BENJAMIN CENTER DRIVE	1. 2.	ALL WELD	ED REINFORC	ONFORM TO ASTM AG NING BARS SHALL CO SHALL CONFORM TO
				TAMPA, FL 33634	2. 3.	MINIMUM C A. UNFORM	CONCRETE COMED SURFAC	OVER, UNLESS NOTE E IN CONTACT WITH
	FLOOR LIVE LOAD:	ORIGINAL DESIGN 50.0 PSF		REQUIRED DESIGN 50.0 PSF		#6 BAI	RS AND LARG	
	ROOF LIVE LOAD:	20.0 PSF		20.0 PSF		C. FORMED		NOT EXPOSED TO EA
	ROOF SNOW LOAD: Pg	30.0 PSF		20.0 PSF		SLABS,	GIRDERS, AN WALLS, AND ARS AND SMA	
	Pg Pf Ce	30.0 PSF 23.1 PSF 1.0		20.0 PSF 22.0 PSF 1.0	4.	#14 AN	ND #18 BARS	ILLER
	ls Ct	1.0 1.0 1.1		1.0 1.1 1.1	4.			IN ACCORDANCE WI
	WIND LOAD: WIND SPEED	110 MPH (SERVIC	E)	93 MPH (SERVICE) 120 MPH (STRENGTH)		BAR LAP	LENGTH NCHES) 22 29	LAP LENGTH (INCHES) 12 15
	lw EXPOSURE GCpi	1.0 C 0.18		N/A C 0.18		#5 #6 #7	36 43 63	19 23 27
	BASE PRESSURE	28.1 PSF		17.5 PSF	5.	COMPRES	SION DOWEL	EMBEDMENT: 22 BA
	SEISMIC LOAD:	1.0		1.25	6.	BASE PLAT		RODS, SUPPORT AN
	SITE CLASS Ss	D .537		D .116				
	S1 Sds	.285 .49		.061 .124				
	Sd1 R	.34 6.5		.098 6.5 018				
	Cs	.08 \$ PROVIDED DATED 11-13-15 F		.018				
	SINGED AND SEALED BY JAM THE OPINION OF DERWACTEI REQUIREMENTS OF THE CUR	ES E. BRADLEY WITH A PENN R & ASSOCIATES, LLC THAT T RENT OHIO BUILDING CODE.	SYLVANIA HE BUILDI THIS EVAL	LIZED STRUCTURES INC. AND SEAL NUMBER OF 0192214E, IT IS ING DESIGN EXCEEDS THE LUATIONS IS BASED ON A REVIEW HAS NOT MADE ANY INSPECTIONS	i			
			,	CHAS NOT MADE ANY INSPECTIONS ANY) TO THE ORIGINAL DESIGN.	•			
		A						



#### **GENERAL NOTES:**

SCHEDULE OF SPECIA	AL INS	PECTION	IS		-
ITEM	REQ'	INSPECT	ION TYPE	REFERENCED STANDARD	OBC
	D	CONT.	PER.	REFERENCED STANDARD	REFERENCE
	X				
E QUALITY ASSURANCE REQUIREMENTS OF TNS			x		
			Х		
			Х		
			х		
	X			•	
			Х	ACI 318: 17.8.2	
			х	ACI 318: CHAPTER 19 AND 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
RICATE SPECIMENS FOR STRENGTH TESTS, ESTS AND DETERMINE THE TEMPERATURE OF		х		ASTM C 172, ASTM C 31, ACI 318: 26.4.5, 26.12	1908.10
URING TEMPERATURE AND TECHNIQUES	1		х	ACI 318: 26.4.7 - 26.4.9	1908.9
ATION AND DIMENSIONS OF THE CONCRETE			х	ACI 318: 26.10.1	
	X			•	
OUNDATIONS ARE ADEQUATE TO ACHIEVE THE			x		
TO PROPER DEPTH AND HAVE REACHED PROPER			х		
IG OF COMPACTED FILL MATERIALS			Х		
ENSITIES AND LIFT THICKNESS DURING /IPACTED FILL.		Х			
FILL, INSPECT SUBGRADE AND VERIFY THAT SITE			х		

#### **REINFORCED MASONRY:**

A615, GRADE 60 OR ASTM A706, UNLESS NOT	ED OTHERWISE.
CONFORM TO ASTM A706.	
TO ASTM A185 (SHEETS FORM, NOT ROLLED)	

	DTHERW	ISE:	
TH THE		D: 3 IN.	
		2 IN.	
		1 1/2 IN.	
) EART	H OR WE	ATHER:	
		1 1/2 IN.	
		0/4 10	
		3/4 IN.	
		1 1/2 IN.	
WITH -	THE FOLI	LOWING TABLE, UN	LESS NOTED OTHERWISE.
PLICE			COMPRESSION SPLICE
1	BAR	LAP LENGTH	LAP LENGTH
	SIZE	(INCHES)	(INCHES)
	#8	72	30
	#9	81	34
	#10	89	38
	#11	98	42

AR DIAMETERS, UNLESS NOTED OTHERWISE. NGLES, ETC., BELOW GRADE SHALL BE COVERED WITH A

- REINFORCED MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, fm, OF 1500 PSI. MASONRY 1. UNITS SHALL BE NORMAL WEIGHT BLOCK CONFORMING TO ASTM C90, AND SHALL HAVE A MINIMUM NET 6. 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.
- REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. 2. CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE HOT DIPPED GALVANIZED, LADDER 8. 3 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 4 BEAM AND LINTEL REINFORCING SHALL BE CONTINUOUS ACROSS VERTICAL CONTROL JOINTS. JOINT REINFORCING SHALL BE STOPPED EACH SIDE OF VERTICAL CONTROL JOINTS. ALL REINFORCED CELLS, ALL CELLS BELOW GRADE AND ALL CELLS BELOW FINISH FLOOR SHALL BE 5.
- GROUTED SOLID. 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. 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. REINFORCING STEEL SHALL BE SECURED IN PLACE BEFORE GROUTING STARTS. 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. VERTICAL BARS SHALL BE HELD IN POSITION AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 96 10.
- DIAMETERS OF THE REINFORCING BAR WITH REBAR POSITIONERS. BARS SHALL BE ANCHORED IN PLACE PRIOR TO GROUTING. 11. 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. 12. VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A
- CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 3"x4". 13. 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.
- 14. GROUTING SHALL BE STOPPED 1 1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT.
- 15. 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 16. AT ANCHOR LOCATIONS SHALL BE GROUTED TO MINIMUM 6" ABOVE AND 6" BELOW THE CENTERLINE OF THE ANCHOR.

MASONRY	REINFORCING	LAP SPLICE	LENGTH (IN.)

						••)
		NUM	BER OF REIN	FORCING LA	YERS	
BAR		ONE LAYER			TWO LAYERS	3
SIZE	NOMINA	AL WALL THIC	CKNESS	NOMINA	AL WALL THIC	KNESS
	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

#### **FOUNDATIONS - GENERAL:**

- 3.

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.

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:**

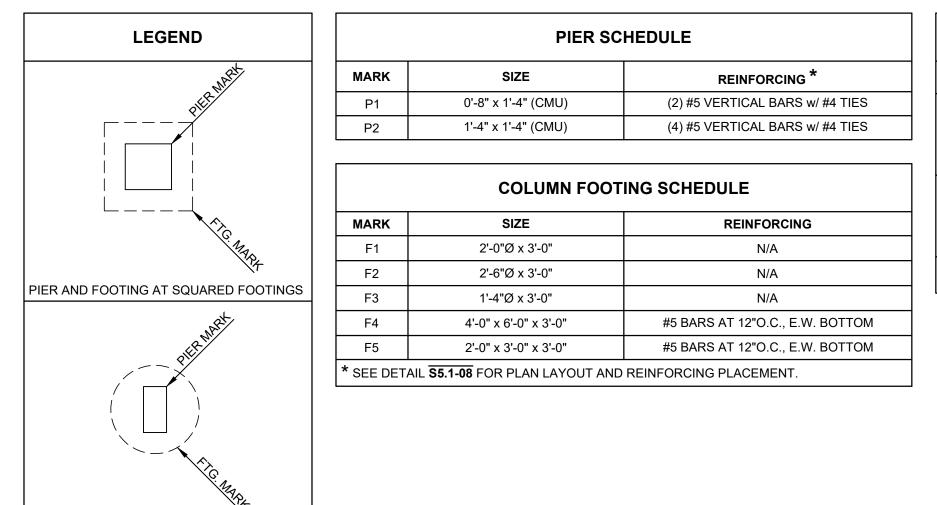
1. THESE DOCUMENTS SHALL NOT BE REPRODUCED IN ANY MANNER FOR THE PRODUCTION OF FABRICATION OR ERECTION SUBMITTALS. REPRODUCTION OF THESE DOCUMENTS IN THAT MANNER CONSTITUTES COPYRIGHT INFRINGEMENT. ANY DOCUMENTS SUBMITTED FOR REVIEW THAT CONTAIN ANY IMAGE, SKETCH, DETAIL, ETC. FROM THESE DOCUMENTS WILL BE REJECTED. 2. ELECTRONIC VERSIONS OF THESE DOCUMENTS ARE THE PROPERTY OF DERWACTER & ASSOCIATES, LLC. ELECTRONIC OR CAD FILES WILL NOT BE MADE AVAILABLE FOR CONSTRUCTION PURPOSES.

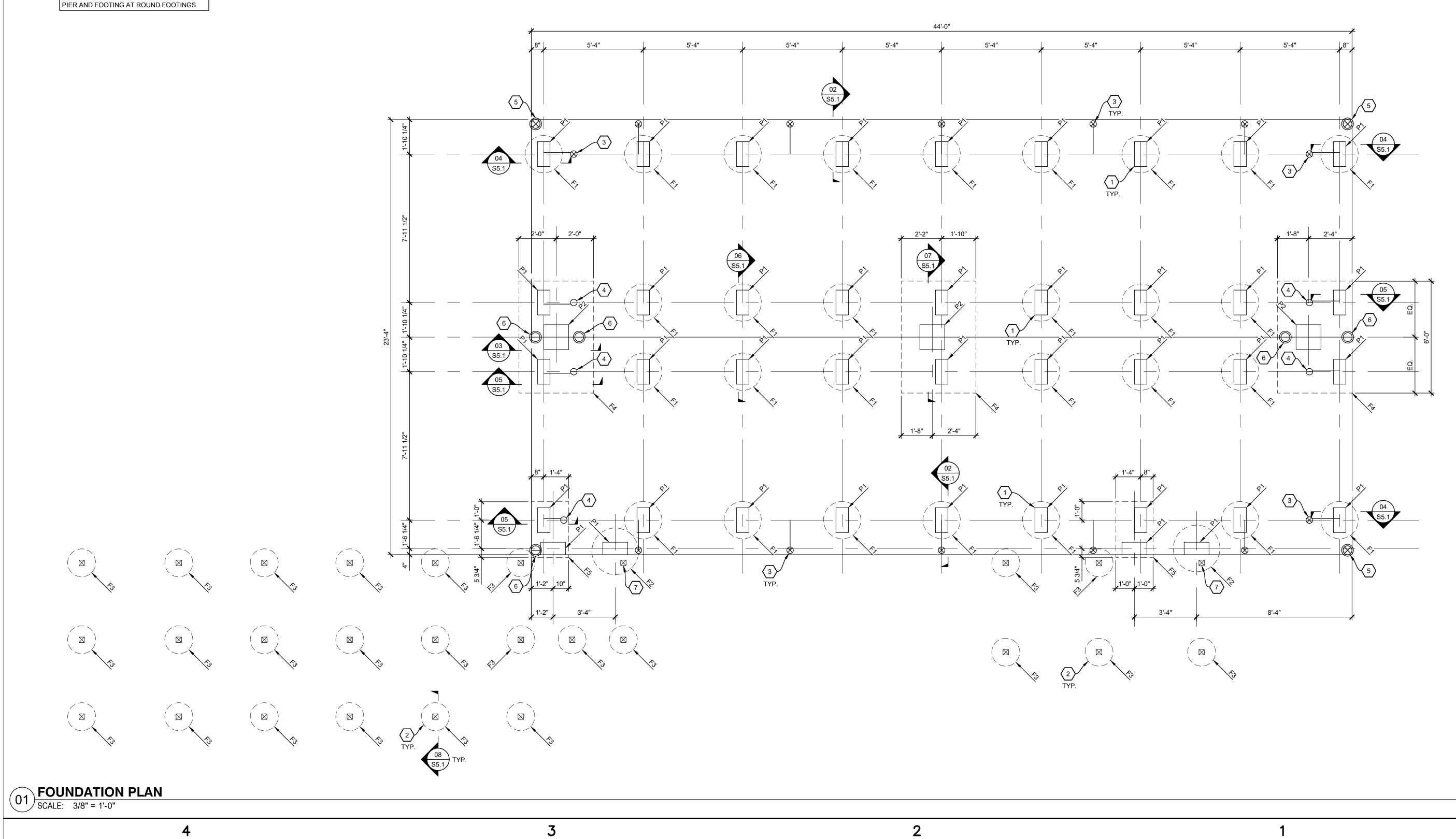
THE FOUNDATION HAS BEEN DESIGNED BASED UPON AN ASSUMED BEARING CAPACITY. BOTTOM OF FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUSTAINING A NET ALLOWABLE BEARING

PRESSURE OF 1.5 KSF UNDER SERVICE LIVE AND DEAD LOAD. 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. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 36" BELOW LOWEST ADJACENT GRADE. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE AND CURED.

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

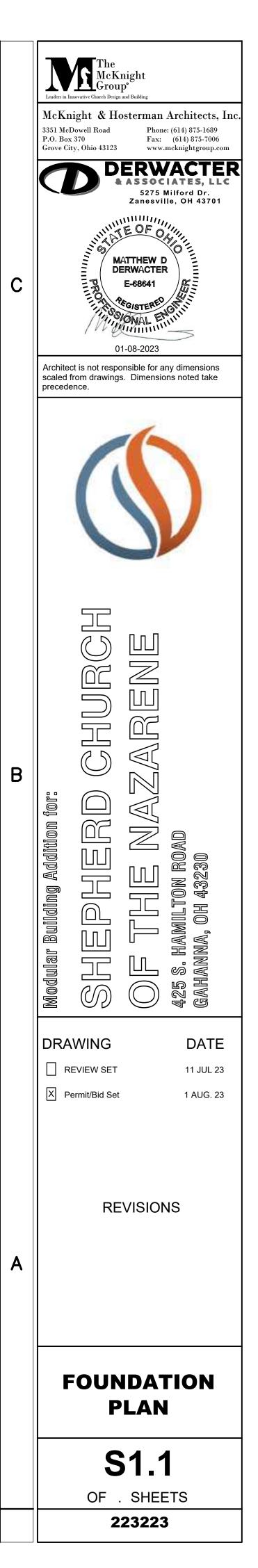
	A			
S			Modular Building Addition for:	McKni 351 McD 2.0. Box Grove City
	RE	WING	SHEPHERD CHURCH	owell Road 370 y, Ohio 43123
OTE	VISIO		OF THE NAZARENE	p° and Building Disterman Phone Fax: www. ERWA S275 I Zanesvil EOF Constitution E-68641 Construction Constitution 1-08-2023 Dissible for a
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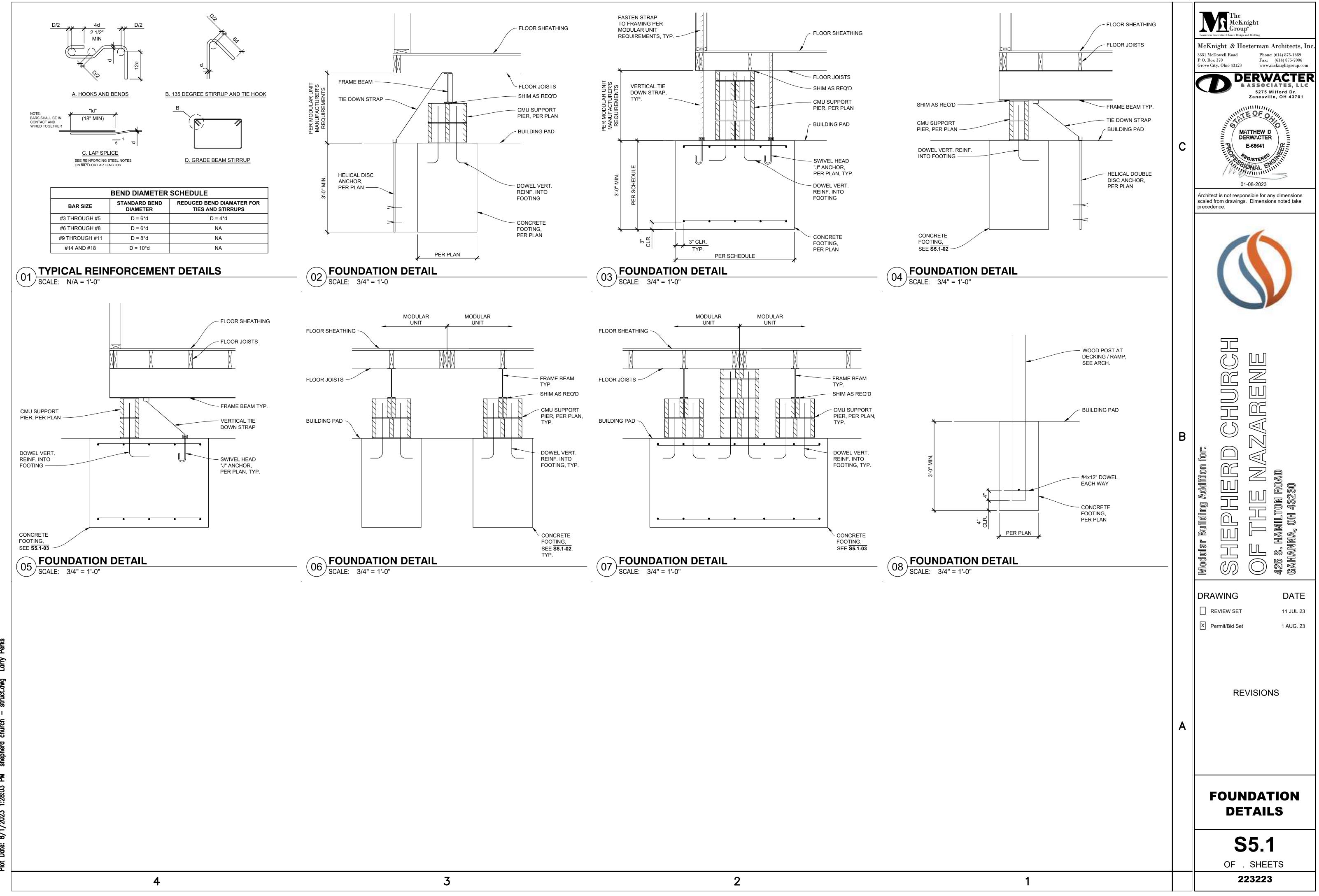




	KEYED NOTES cont.		KEYED NOTES			
(#)		#				
	OCATION OF VERTICAL UPLIFT. PROVIDE HELICAL ANCHOR & STRAPPING ANCHORAGE AT ANCHOR LOCATIONS INDICATED ON PLAN. HELICAL ANCHOR	1	CMU SUPPORT PIER ON CONCRETE FOOTING, SEE SCHEDULES.			
5	TO BE DOUBLE DISC, 3/4"Ø ROD x 36" WITH 6"Ø DISCS (MINUTE MAN #4636 DH DOUBLE DISC TENSION HEAD ANCHOR OR EQUAL). GALVANIZED STEEL	2	FOOTING AT EXTERIOR DECK, STAIRS AND RAMP POSTS, COORDINATE LOCATION WITH ARCH. SEE SCHEDULE FOR FOOTING REINFORCING.			
	STRAPPING AND FASTENING PER MODULAR BLDG. MFR.		OLOCATION OF GROUND ANCHOR FOR OVER TURNING & SLIDING, PROVIDE			
6	OLOCATION 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.	3	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.			
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.		LOCATION OF GROUND ANCHOR FOR OVER TURNING & SLIDING, PROVIDE     EMBED AND STRAPPING ANCHORAGE AT ANCHOR LOCATIONS INDICATED ON			
		4	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
А	SEE SHEET <b>50.1</b> FOR GENERAL NOTES.
В	ALL ELEVATIONS ARE RELATIVE TO A FINISH FIRST FLOOR ELEVATION OF 100'-0" (REFERENCE ONLY).
С	COORDINATE DOOR OPENINGS AND STOOP LOCATIONS WITH ARCH. DRAWINGS.
D	SEE DETAIL <b>55.1-01</b> 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.

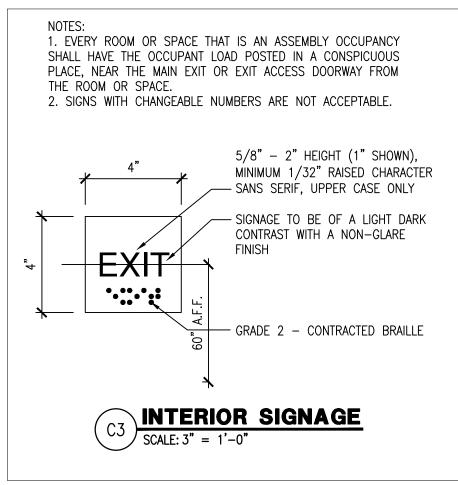




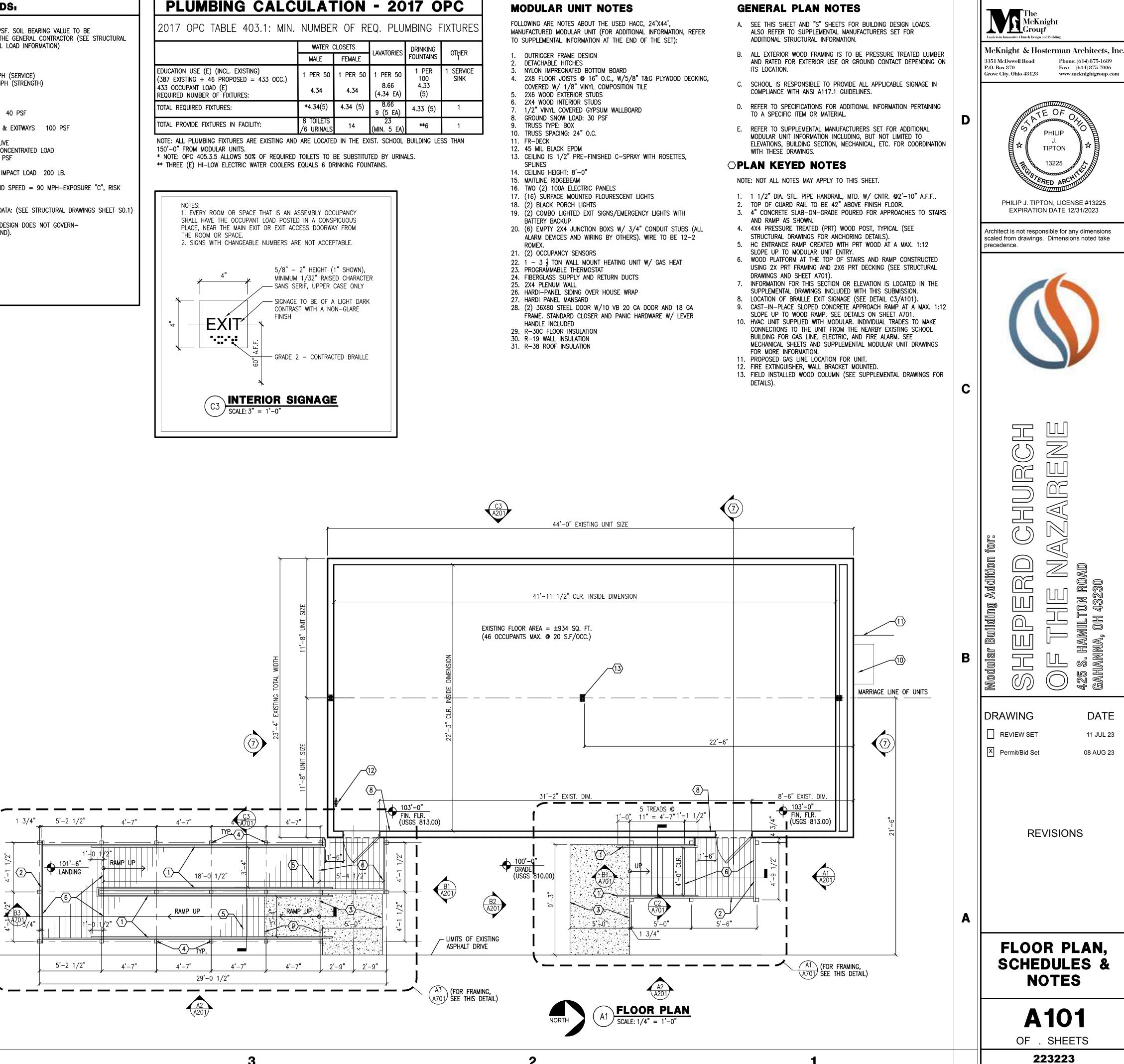
	UMMARY - 2017 OBC	DESIGN LOADS:
USE GROUP/CC PREVIOUS USE GROUP(S): B (ADULT CLASSROOM) PROPOSED USE GROUP(S): E	ONSTRUCTION TYPE EXISTING CONSTRUCTION TYPE: V-B	1. SOIL BEARING 1,500 PSF. SOI CONFIRMED ON SITE BY THE GEN DRAWINGS FOR ADDITIONAL LOAD
	TABULATIONS	2. ROOF LOADS: A. SNOW 20 PSF B. WIND 93 MPH (SER
BUILDING FOOTPRINT = $1,026$ SQ. FT. (937 SQ. FT. IN		120 MPH (ST
LLOWABLE AREA PER TABLE 506.2 FOR "E"/V-B -NON		3. LIVE LOADS: A. EDUCATIONAL
	TABULATIONS	1. CLASSROOMS 40 PS B. EXTERIOR STAIRWAYS & EXIT
LLOWABLE HEIGHT PER TABLE 504.3 OBC = 40'-0"		1. LANDINGS a. 100 PSF LIVE
ALLOWABLE STORIES PER TABLE 504.4 OBC $(E/V-B) =$ ACTUAL MAX. HEIGHT = $\pm 30'-0''$ @ MODUL;AR UNIT RID ACTUAL NO. OF STORIES = ONE (1) STORY ABOVE GRA	DGE	b. 300 LB. CONCENT 2. EXITWAYS 100 PSF
	PANT LOAD	C. GUARDS/KNEEWALLS IMPACT
CALCULATED OCCUPANT LOAD PER TABLE 1004.1.2 OBC	= MAXIMUM 46 OCCUPANTS	4. WIND LOAD: BASIC WIND SPEE CATEGORY II
OTAL EGRESS PROVIDED = 340 TOTAL EGRESS CAPAC		5. EARTHQUAKE DESIGN DATA: (S
RE RATED PARTITIONS ARE NOT REQUIRED FOR THIS B	TANCE RATINGS (SEE PLAN FOR DETAILS) BUILDING. EXTERIOR WALL NEAREST TO EXISTING SCHOOL BUILDING RY STRUCTURE DOES NOT REQUIRE FIRE RATED EXTERIOR WALLS. STRUCTION.	GOVERNING FACTOR IS WIND).
SPRINKLER FIRE SUPPRESSION SYSTEM IS NOT REQUIRED IN THIS	REQUIREMENTS s building or in nearby school building	
APPLICA	BLE CODES	┥└───
017 OHIO BUILDING CODE (OBC)	2017 OHIO CHAPTER 11 AND ICC/ANSI A117.1-2009	7
017 OHIO MECHANICAL CODE (MMC)	ACCESSIBILITY CODE 2015 INTERNATIONAL FUEL GAS CODE	
017 OHIO PLUMBING CODE (MPC)	2017 OBC CHAPTER 27 (ELECTRIC) AND NEC 2017	
015 INTERNATIONAL ENERGY CONSERVATION CODE 015 OHIO ENERGY CODE (MENC)	2017 OHIO FIRE CODE (IFC) W/ 2019 AMMENDMENTS	
DESIG	N LOADS	-
84" A.F.F. $$	ARTITION FOR ANCHORAGE OF ACCESSORIES & EQUIPMENT.	2
NOTE: TYPICAL MOUNTING HEIGHTS UNLESS NO NOTE: PROVIDE SOLID WOOD BLOCKING IN PA	ARTITION FOR ANCHORAGE OF ACCESSORIES & EQUIPMENT.	
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NOTE: TYPICAL MOUNTING HEIGHTS UNLESS NO NOTE: PROVIDE SOLID WOOD BLOCKING IN PA 84" A.F.F. 48" A.F.F. 44" A.F.F. 18" A.F.F.	ARTITION FOR ANCHORAGE OF ACCESSORIES & EQUIPMENT.	
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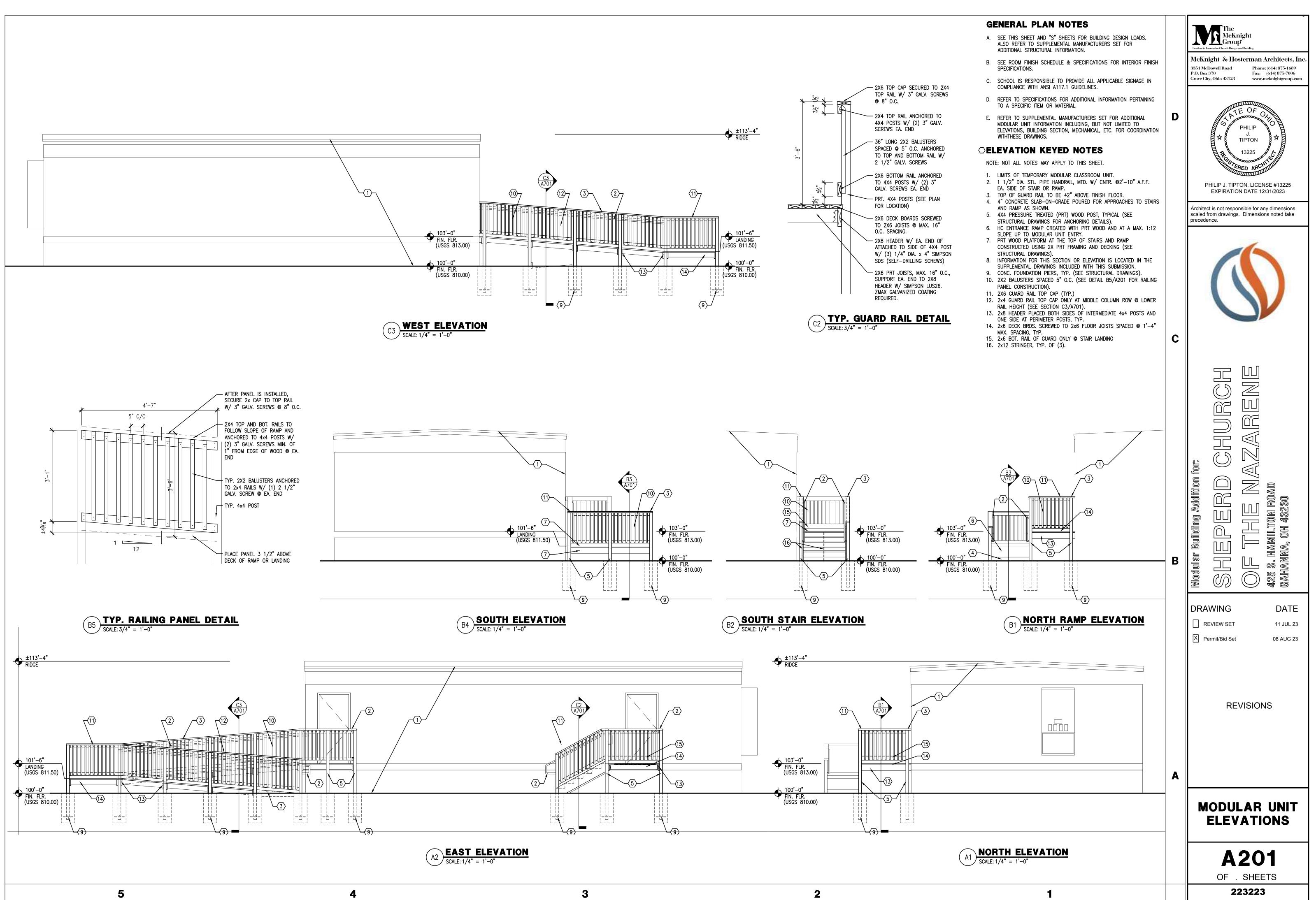
# PLUMBING CALCULATION - 2017 OPC

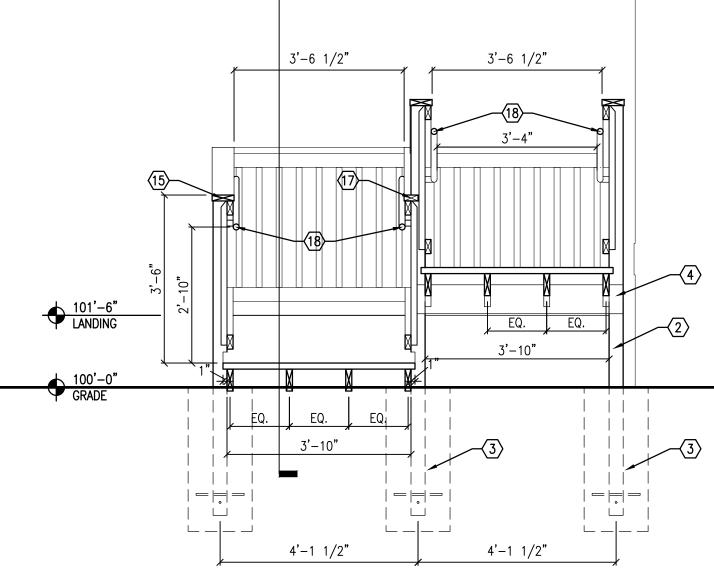
	WATER C	CLOSETS	LAVATORIES	DRINKING	OTHER
	MALE	FEMALE	LAVATORIES	FOUNTAINS	
EDUCATION USE (E) (INCL. EXISTING) (387 EXISTING + 46 PROPOSED = 433 OCC.)	1 PER 50	1 PER 50	1 PER 50	1 PER 100	1 SERVICE SINK
433 OCCUPANT LOAD (E) REQUIRED NUMBER OF FIXTURES:	4.34	4.34	8.66 (4.34 EA)	4.33 (5)	
TOTAL REQUIRED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



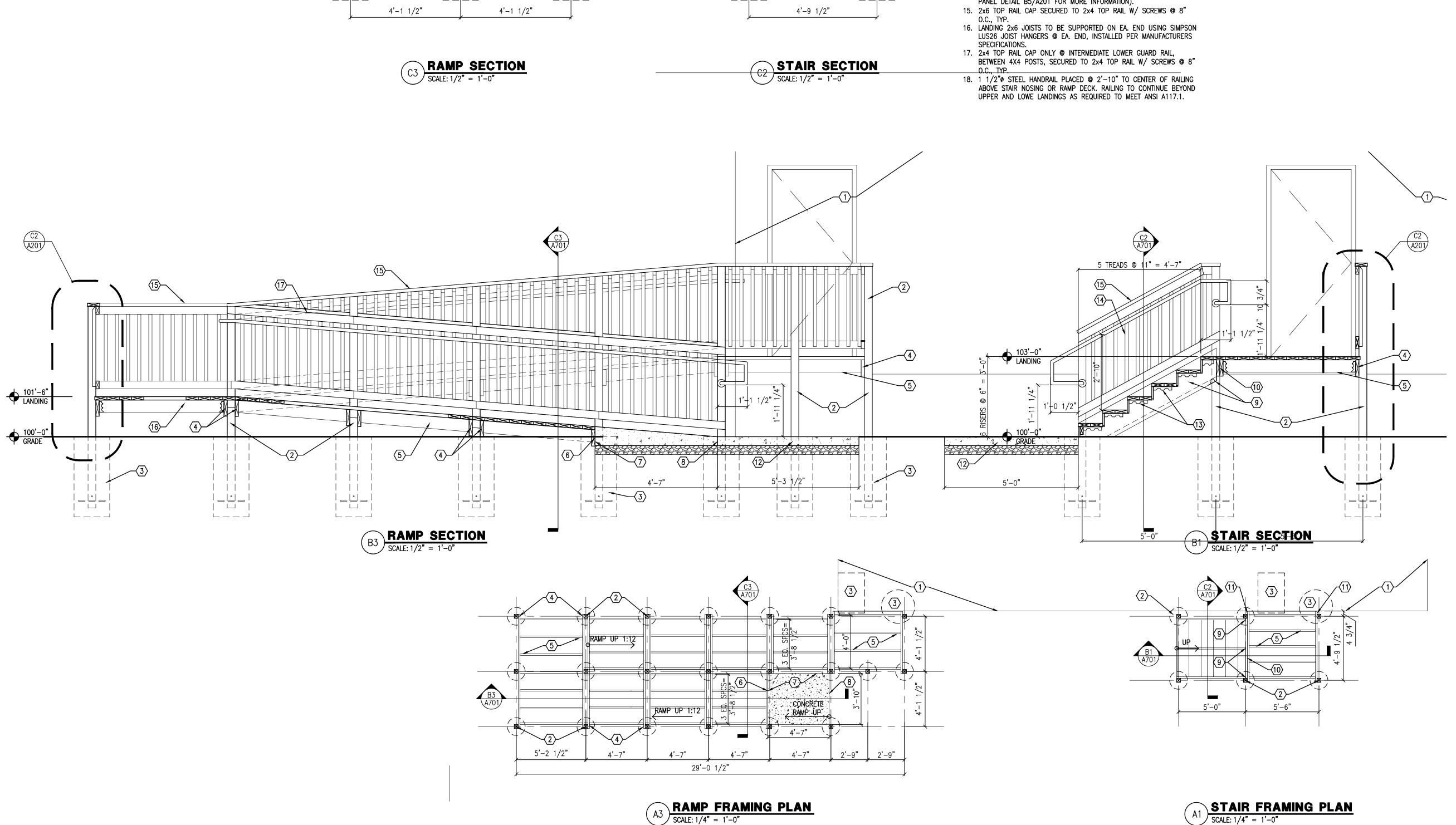
- HANDLE INCLUDED











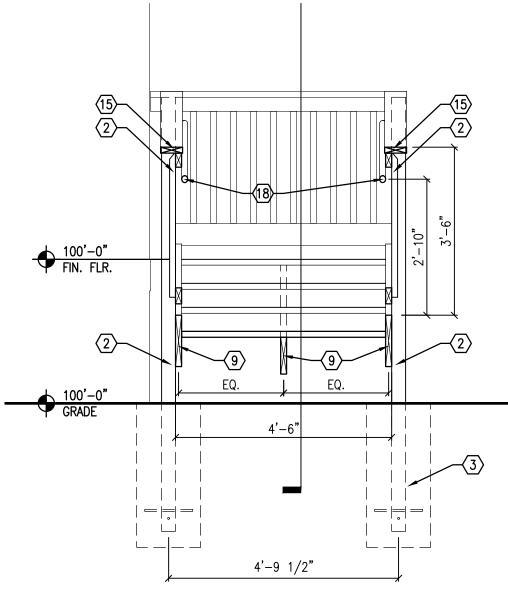


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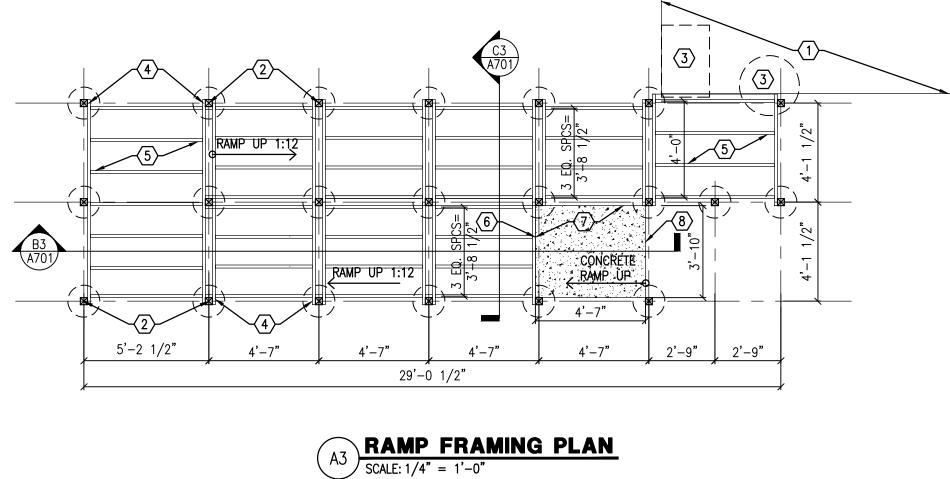
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NOTE: NOT ALL NOTES MAY APPLY TO THIS SHEET.

- 1. LIMITS OF MODULAR UNIT 2. 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 FÖR 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).
- 3. TYP. CAST IN PLACE CONC. FOOTING (SEE STRUCTURAL SHEETS FOR MORE INFORMATION). 4. 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).
- 5. TYP. 2x6 TREATED WOOD JOISTS SPACED AT 16" O.C. MAX SPACING (SEE PLAN). SUPPORT EA. END OF JOISTS TO 2x8 HEADER W/ SIMPSON LSU26 (NOT LUS26). ZMAX GALVANIZED COATING REQUIRED.
- 6. 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.
- 7. 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/
- 10. 2x8 HEADER ANCHORED TO 4x4 POSTS AND SHORTER 2x8 BLOCKING SCREWED TO IT CREATING DBL. HEADER @ TOP OF STAIRS.
- 11. 2x8 HEADER TO EXTEND PAST 4x4 POST TO THE MODULAR UNIT @ THIS LOCATION TO ALLOW 2x6 BRACKET TO BE SECURED. 12. 4" CONC. WALK/APPROACH OVER 4" GRAVEL BASE.
- 13. SIMPSON STAIR ANGLE @ EA. END OF STAIR TREADS @ OUTER STRINGERS ONLY.
- 14. 2x2 BALUSTERS SPACED @ 5" O.C., TYP. (SEE OUARD RAILING PANEL DETAIL B5/A201 FOR MORE INFORMATION).





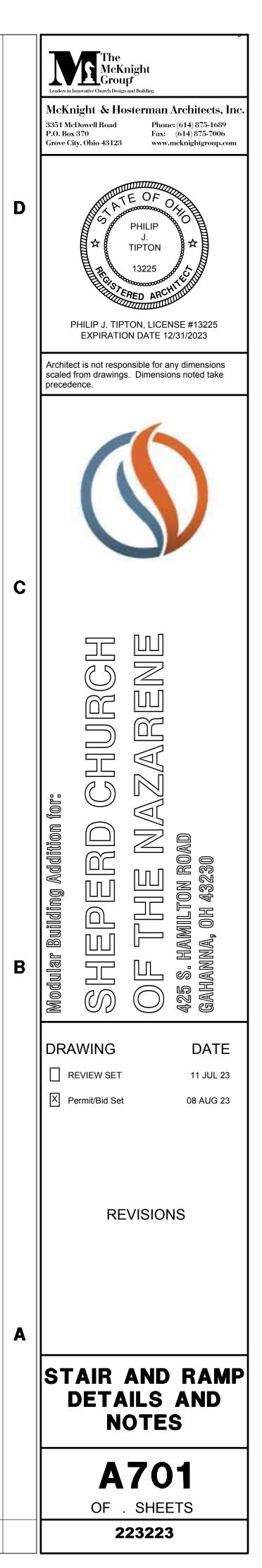


3

2

- (3) 1/4" DIA. x 4" LONG SIMPSON SDS (SELF-DRILLING SCREWS).

- GENERAL NOTES
- A. 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.
- B. ALL EXTERIOR WOOD FRAMING IS TO BE PRESSURE TREATED LUMBER AND RATED FOR EXTERIOR USE OR GROUND CONTACT DEPENDING ON ITS LOCATION.
- C. SCHOOL IS RESPONSIBLE TO PROVIDE ALL APPLICABLE SIGNAGE IN COMPLIANCE WITH ANSI A117.1 GUIDELINES.
- D. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION PERTAINING TO A SPECIFIC ITEM OR MATERIAL.
- E. 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.



DIVISION	01	-	GENERAL	REQUIREMENTS	
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- PROJECT SPECIFICATIONS HAVE BEEN INCORPORATED INTO THE DRAWINGS.
- THE DRAWINGS HAVE BEEN ARRANGED TO SHOW THE EXTENT OF WORK INVOLVED AND ARE NOT INTENDED TO DEFINE ANY COMPLETE SUB-CONTRACT. EACH CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR, SUPERVISION, MATERIALS, APPLIANCE, EQUIPMENT AND SERVICES NECESSARY TO PROVIDE ANY WORK REQUIRED TO COMPLETE THE PORTION OF SAID SCOPE IN A WORKMANLIKE MANNER.
- 3. BEFORE SUBMITTING A PROPOSAL, EACH CONTRACTOR/SUPPLIER SHALL CAREFULLY EXAMINE THE DRAWINGS, SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS, VISIT THE SITE, FULLY INFORM HIMSELF PRIOR TO BIDDING AS TO EXISTING CONDITIONS AND LIMITATIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND SHALL INCLUDE IN HIS PROPOSAL A SUM TO COVER THE COST OF ITEMS AND EQUIPMENT NECESSARY TO PERFORM THE WORK AS SET FORTH IN THE CONTRACT DOCUMENTS. NO ALLOWANCE WILL BE MADE TO A CONTRACTOR/SUPPLIER DUE TO A LACK OF SUCH EXAMINATION OR KNOWLEDGE. THE SUBMISSION OF A PROPOSAL WILL BE CONSIDERED AS CONCLUSIVE EVIDENCE THAT THE BIDDER HAS MADE SUCH EXAMINATION.
- CONTRACTORS/SUPPLIERS SHALL PROMPTLY NOTIFY THE ARCHITECT OF ANY AMBIGUITY, INCONSISTENCY OR ERROR, WHICH THEY MAY DISCOVER UPON EXAMINATION OF THE BIDDING DOCUMENTS OR OF SITE AND LOCAL CONDITIONS.
- 5. THE GENERAL CONTRACTOR SHALL PROVIDE OVERALL SUPERVISION AND COORDINATION AMONG CONTRACTORS AND PROVIDE GENERAL CONDITIONS AS REQUIRED.
- 6. THE GENERAL CONTRACTOR SHALL OBTAIN AND INITIALLY PAY FOR ALL REQUIRED "BUILDING AND MAINLINE UTILITY | I. MATERIALS SERVICE FEES, PERMITS AND ASSESSMENTS." AFTER ALL FEES, PERMITS AND ASSESSMENTS ARE PAID, THE CONTRACTOR WILL PRESENT THE PAID RECEIPTS TO THE OWNER FOR FULL REIMBURSEMENT. WHEN FEES EXCEED \$5,000.00 THE OWNER IS REQUIRED TO ADVANCE THE FEE AMOUNT TO THE CONTRACTOR BEFORE PAYMENT IS MADE TO THE RESPECTIVE BUILDING AUTHORITIES. EXAMPLES OF VARIOUS FEES AND ASSESSMENTS ARE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
- A. SIDEWALK PERMIT B. CURB CUT PERMIT
- C. WATER TAP WATER FRONT FOOTAGE CHARG E. WATER SYSTEM CAPACITY CHARGE
- F. WATER METER G. STORM SEWER
- H. STORM SEWER INSPECTION (STANDBY)
- I. SANITARY SEWER TAP J. SANITARY SEWER SYSTEM CAPACITY CHARGE K. SANITARY SEWER INSPECTION (STANDBY
- L. EXCESS FACILITIES COSTS FOR GAS, ELECTRIC AND TELEPHONE M. AID TO CONSTRUCTION (ELECTRICAL)
- PERMITS AND INSPECTIONS FEES FOR PLUMBING, HEATING, VENTILATING, AIR CONDITIONING, ELECTRICAL, FIRE ALARI SYSTEMS, FIRE SUPPRESSION SYSTEMS, ETC. TO BE APPLIED AND PAID FOR BY THEIR RESPECTIVE SUB-CONTRACTORS.
- 8. ALL WORK PROPOSALS SHALL INCLUDE INSTALLATION ACCORDING TO GOVERNING CODES AND TRADE STANDARDS.
- 9. COPIES OF PERMITS, APPROVED SHOP DRAWINGS, AND A COMPLETE SET OF CONTRACT DRAWINGS MARKED UP TO DATE WITH ALL REVISIONS SHALL BE KEPT ON SITE.
- 10. EACH CONTRACTOR IS RESPONSIBLE FOR KEEPING A SET OF RECORD DRAWINGS COVERING THE SCOPE OF HIS
- WORK. THESE RECORD DRAWINGS ARE TO BE KEPT CURRENT AS JOB PROGRESSES AND MUST BE TURNED OVER TO THE GENERAL CONTRACTOR AT THE COMPLETION OF THE PROJECT BEFORE FINAL RETAINAGE WILL BE PAID.
- 11. EACH CONTRACTOR SHALL BE FAMILIAR WITH THE ENTIRE SCOPE OF THE PROJECT AND SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THAT OF OTHER CONTRACTORS
- 12. EACH CONTRACTOR REQUIRING INSPECTIONS SHALL ARRANGE AND SECURE ALL NECESSARY INSPECTIONS. 13. ALL WORK SHALL COMPLY WITH THE LATEST EDITIONS OF THE 2017 OHIO BUILDING CODE, THE NFPA CODE, THE NATIONAL BUILDING AND ELECTRICAL CODE, O.S.H.A., AND ALL OTHER NATIONAL, STATE AND LOCAL CODES AND
- ORDINANCES HAVING JURISDICTION OVER THIS PROJECT. 14. FURNISH ALL MATERIAL AND EQUIPMENT AS SPECIFIED, EXCEPT WHERE APPROVAL FOR SUBSTITUTION HAS BEEN GRANTED BY THE ARCHITECT AND/OR OWNER.
- 15. ALL CONTRACTORS SHALL PROVIDE ANY TEMPORARY SIGNAGE AND BARRICADES AS NECESSARY TO PROTECT THE BUILDING INHABITANTS AND PUBLIC FROM THE WORK AND STAGING AREAS.
- 16. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS THAT MAY BE AFFECTED BY THE WORK. CONTRACTOR SHALL
- MAKE MINOR ADJUSTMENTS TO DIMENSIONS AS REQUIRED TO PERFORM THE WORK. 17. EACH CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN ALL TEMPORARY BRACING REQUIRED FOR AVOIDING
- COLLAPSE DURING CONSTRUCTION FOR THEIR PARTICULAR PHASE OF WORK. 18. ALL WORK SHALL BE DONE BY SKILLED CRAFTSMEN AND SHALL BE OF HIGHEST QUALITY IN ACCORDANCE WITH THE
- BEST PRACTICES OF EACH RESPECTIVE TRADE. 19. CONTRACTORS SHALL FOLLOW MATERIAL MANUFACTURER'S RECOMMENDATIONS FOR STORAGE AND INSTALLATION OF THEIR PRODUCTS. ANY DEVIATION FROM MANUFACTURER'S DIRECTIONS SHALL BE MADE AT THE CONTRACTOR'S
- 20. ALL PATCH WORK SHALL BE CONSISTENT WITH ADJOINING SURFACES.
- 21. ALL ROUGH OPENINGS AND EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S SPECIFICATIONS PRIOR TO CONSTRUCTION OR INSTALLATION AND COORDINATED WITH APPROPRIATE TRADES AND CONTRACTORS.
- 22. THE CARPENTRY CONTRACTOR SHALL FURNISH AND INSTALL ALL MISCELLANEOUS SUPPORT FORMS, BLOCKING, II. MIXES HANGERS, FITTINGS, ETC., NOT NECESSARILY SHOWN BUT REQUIRED TO FULLY COMPLETE THE WORK.
- 23. OWNER REQUIRES ANY CONTRACTOR OR SUPPLIER PERFORMING ANY WORK OR SUPPLYING ANY MATERIALS TO JARANTEE THE SAME TO BE FREE FROM ANY AND ALL DEFECTS IN WORKMANSHIP AND MATERIALS FOR ONE YEAR FROM THE DATE OF PROJECT COMPLETION THEREOF AND REQUIRES SUCH PERSON TO BE RESPONSIBLE FOR THE REPLACEMENT OR REPAIR WITHOUT ADDITIONAL CHARGE TO THE OWNER.
- 24. ALL CONTRACTORS WORKING ON THIS PROJECT MUST MEET OR EXCEED ALL OSHA STANDARDS AND REQUIREMENTS. EACH CONTRACTOR MUST MEET THESE MINIMUM REQUIREMENTS THROUGHOUT THE DURATION OF THE PROJECT. BUT IS NOT LIMITED TO, A COMPLETE, ACTIVE, ONGOING SAFETY PROGRAM, HAZARDOUS COMMUNICATIONS PROGRAM AND EVIDENCE OF REQUIRED EMPLOYEE TASK TRAINING.
- 25. IF ANY CONTRACTOR ENCOUNTERS HAZARDOUS MATERIALS OR CONDITIONS WHICH MAY BE DANGEROUS, HE IS TO IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND NOTIFY THE GENERAL CONTRACTOR WHO WILL, IN TURN, NOTIFY THE OWNER OF THE FINDING. THE OWNER IS RESPONSIBLE FOR REMOVAL OR NEUTRALIZATION OF ANY EXISTING HAZARDOUS MATERIALS OR CONDITIONS.
- 26. PAYMENTS TO CONTRACTOR, GUARANTEE OF WORK, DATE OF COMPLETION AND ALL OTHER CONTRACTUAL MATTERS SHALL BE AS AGREED TO BETWEEN OWNER AND CONTRACTOR.
- 27. ALL RISK INSURANCE SHALL BE PROVIDED BY OWNER WITH A COPY TO THE GENERAL CONTRACTOR FOR POSTING AT THE JOB SITE.
- 28. THE GENERAL CONTRACTOR SHALL PURCHASE AND MAINTAIN, DURING THE TERM OF THE CONTRACT, INSURANCE FOR NOT LESS THAN THE LIMITS OF LIABILITY AGREED TO BY THE OWNER OR REQUIRED BY LAW FOR:
- A. WORKMAN'S COMPENSATION B. COMPREHENSIVE LIABILITY
- C. CONTRACTUAL LIABILITY
- D. COMPREHENSIVE AUTOMOTIVE LIABILITY
- E. EXCESS LIABILITY UMBRELLA
- CERTIFICATES OF INSURANCE LISTED ABOVE SHALL BE FILED WITH THE OWNER PRIOR TO COMMENCEMENT OF THE WORK. 29. APPROVED SUBSTITUTIONS REQUIRE SUBMITTALS OF PRODUCT LITERATURE FOR FORMAL APPROVAL OF THE ARCHITECT AND/OR ENGINEER. WHEN SUBSTITUTIONS FOR FINISH MATERIALS ARE REQUESTED THE SUPPLIER I. ERECTION MUST SUPPLY A MINIMUM OF THREE SAMPLES OF EACH MATERIAL IF THE ARCHITECT / ENGINEER APPROVES THE UBSTITUTION A LETTER OF ACCEPTANCE WILL BE ISSUED BY THE ARCHITECT. NO SUBSTITUTION OF MATERIALS IS

DIVISION 03 - CONCRETE (NOTES IN THIS SECTION ARE TO BE COORDINATED WITH THE STRUCTURAL DRAWINGS. IF THERE IS A CONFLICT, THE STRUCTURAL DRAWINGS TAKE PRECEDENCE.

PERMITTED UNLESS THE ARCHITECT ISSUES A LETTER OF ACCEPTANCE.

## 03 30 00 - CAST-IN-PLACE CONCRETE

- PART1 GENERAL SUMMAR
- BASIC SPECIFICATION: PERFORM WORK OF THIS SECTION ACCORDING TO ACI 301-10, "SPECIFICATIONS FOR 1. STRUCTURAL CONCRETE," EXCEPT AS SPECIFICALLY MODIFIED HEREIN.
- SECTION INCLUDES: ALL CAST\_IN\_PLACE CONCRETE SHOWN ON THE DRAWINGS AND REQUIRED BY THESE SPECIFICATIONS. ALLOW FOR THE INSTALLATION OF CAST\_IN\_PLACE ITEMS FURNISHED UNDER OTHER SECTIONS. INSTALL ANCHOR BOLTS FOR STEEL POST BASES. PROVIDE AND INSTALL GROUT UNDER STEEL COLUMN BASE PLATES.
- 3. PROVIDE CONCRETE PADS, PIERS, CURBS, AND BASES REQUIRED FOR EQUIPMENT OF ALL TRADES. COORDINATE DIMENSIONS AND DETAILS WITH REQUIREMENTS OF EQUIPMENT BEING SUPPLIED, PRIOR TO PLACING CONCRETE. IV. EMBEDDED ITEMS
- 4. COORDINATE THE WORK OF OTHER TRADES WHO WILL PROVIDE AND INSTALL ITEMS (SLEEVES, PIPING, CONDUIT, INSERTS, ETC.) TO BE CAST IN THE CONCRETE. PLACE NO CONCRETE UNTIL ALL SUCH ITEMS ARE IN PLACE.
- INSPECTION AND TESTING SERVICES REQUIRED BY THIS SECTION ARE TO BE PERFORMED BY AN AGENCY RETAINED BY THE CONTRACTOR. THIS INCLUDES NOT ONLY THE SERVICES REQUIRED TO ESTABLISH MIX DESIGNS, BUT ALSO INCLUDES ALL FIELD SAMPLING AND TESTING REQUIRED BY THE FIELD QUALITY CONTROL ARTICLE OF THIS SECTION
- (1.6.2 THROUGH 1.6.4). 6. RELATED SECTIONS: CAREFULLY EXAMINE ALL OTHER SECTIONS AND ALL DRAWINGS FOR RELATED WORK, WHICH INCLUDES BUT IS NOT LIMITED TO:
- A. UNIT MASONRY: SECTION 04 20 00 B. STRUCTURAL STEEL: SECTION 05 12 00

## . QUALITY ASSURANCE

- REFERENCE STANDARDS: A. ACI 318-19, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE. B. ACI 347R-14, GUIDE TO FORMWORK FOR CONCRETE. C. ACI 302.1R-15, GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION
- D. ACI 305R-20 HOT WEATHER CONCRETING, (INCL. SPECIFICATION ACI 305.1) E. ACI 306R-16 COLD WEATHER CONCRETING, (INCL. SPECIFICATION ACI 306.1)
- F. CRSI "PLACING REINFORCING BARS," 10TH EDITION, 2019. G. WWR-500 "MANUAL OF STANDARD PRACTICE" DEC 2016, 9TH EDITION.
- . SUBMITTALS
- 1. ALL REQUIRED FIELD TESTING AND SAMPLING IS TO BE PERFORMED BY PERSONNEL EMPLOYED BY THE PROPOSED

SPECIAL INSPECTION AGENCY.

- SUBMIT A MIX DESIGN FOR EACH CLASS OF CONCRETE REQUIRED. METHODS LISTED IN ACI 301. INDICATE WHETHER MIXES HAVE BEEN DESIGN
- SUBMIT PDF COPIES OF SHOP DRAWINGS FOR ALL REINFORCING. INDICATE S BAR REINFORCING, AND STYLE AND SPECIFICATION OF ALL WELDED WIRE FABR STAMP PRINTED ON THEM SHALL BE PERMITTED ON THE SITE.
- 4. SUBMIT, ON REQUEST ONLY, PRODUCT LITERATURE FOR ADMIXTURES AND CUR SUBMIT REPORTS OF ALL REQUIRED TESTING AND INSPECTION. 5.
- 6. SUBMIT FOR APPROVAL PROPOSED SPACING AND LOCATION OF CONSTRU
- CONCRETE SLABS ON GRADE.

## IV. FIELD REFERENCE MANUALS

1.	PROVIDE	AT	LEAST	ONE	COPY	OF	THE	ACI	FIELD	REFE	RENCE	MANUAL,	MNL-
	"PLACING	RE	NFORCI	NG BA	rs," in	I TH	e fiel	_D 0	FFICE A	AT ALL	TIMES.	•	
PART2 PRODU	CTS												

- CEMENTITIOUS MATERIALS: A. PORTLAND CEMENT: ASTM C150, TYPE I, II, OR III. B. FLY ASH: ASTM C618, CLASS C OR F.
- C. SLAG CEMENT: ASTM C989, GRADE 100 OR 120. D. BLENDED HYDRAULIC CEMENT: ASTM C595
- WATER: POTABLE, CONFORMING TO C94. 2.
- AGGREGATES: ASTM C33. USE SIZE NO. 57 COARSE AGGREGATE, UNL AGGREGATES FROM A SINGLE SOURCE.
- CHEMICAL OR OTHER ADMIXTURES (WHERE REQUIRED OR PERMITTED): COMPATIBLE WITH OTHER ADMIXTURES THAT DO NOT CONTRIBUTE WATER THOSE PERMITTED IN HARDENED CONCRETE. DO NOT USE CALCIUM CHLORIDE CHLORIDE.
- A. WATER-REDUCING AND RETARDING: ASTM C494, TYPE A. B. RETARDING ADMIXTURE: ASTM C494, TYPE B.
- C. WATER-REDUCING AND RETARDING ADMIXTURES: ASTM C494, TYPE D. D. HIGH-RANGE, WATER-REDUCING ADMIXTURE: ASTM C494, TYPE F. E. HIGH-RANGE, WATER-REDUCING AND RETARDING ADMIXTURE: ASTM C494,
- PLASTICIZING AND RETARDING ADMIXTURE: ASTMC1017, TYPE II. G. AIR-ENTRAINING ADMIXTURE: ASTM C260.
- H. SYNTHETIC FIBER REINFORCEMENT: ASTM C1116 AND ASTM C1018.
- **REINFORCING STEEL:** A. DEFORMED BARS: ASTM A615 OR A706. MINIMUM YIELD STRENGTH TO TO BE ASTM A706. B. EPOXY COATING: ASTM A775 OR ASTM A934
- C. WELDED WIRE FABRIC: ASTM A1064. PROVIDE IN SHEET FORM (NOT ROLL 6. PREFORMED EXPANSION JOINT OR ISOLATION JOINT FILLER: ASTM D1751 OR
- CURING COMPOUND: FOLLOW REQUIREMENTS OF ACI 308R AND COMPLY (CLEAR). APPLY AT THE MANUFACTURER'S WRITTEN RECOMMENDED APPLICATION ADHESIVE SPECIFIED FOR FLOOR FINISHES OR BE REMOVED BY THE CONT
- GROUT FOR MASONRY CORE FILL: ASTM C476, COARSE TYPE OR FINE TYPE, NON\_SHRINK GROUT UNDER BEARING ELEMENTS: ASTM C1107. GRADE STRENGTH AT 28 DAYS = 7,000 PSI; MINIMUM COMPRESSIVE STRENGTH AT PRODUCTS INCLUDE, BUT ARE NOT LIMITED TO:
- 12. CURING AND SEALING COMPOUND: ASTM C1315, TYPE 1, CLASS A, A CL WHICH WILL NOT YELLOW. MUST BE FORMULATED FOR INTENDED APPLICATION APPLIED PER MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- KEYED FLOOR SLAB JOINTS: MILL GALVANIZED STEEL, 20 GAGE MINIMUM, 13. INCH DEEP BY 1-1/2 INCHES AT ITS WIDEST POINT. ACCEPTABLE PRODUCT K. TONGUE & GROOVE JOINT 95 BY HECKMANN BUILDING PRODUCTS, INC.
- 14. JOINT SEALANT: USE 1-COMPONENT POLYURETHANE, CONFORMING TO ASTM USE WITH BACKER ROD AS REQUIRED.
- UNDERSLAB VAPOR BARRIER: 15. A. 10 MIL POLYETHYLENE SHEETS. OVERLAP AND TAPE JOINTS. B. RETARDING SHEET VAPOR RETARDER: ASTM E1745, CLASS A; NOT LESS T INCLUDE MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE-SENSIT

- 1. THE FOLLOWING CLASSES OF CONCRETE ARE REQUIRED (F'C AT 28 DAYS): A. CLASS I - FOOTINGS; MINIMUM F'C = 3000 PSI.
- B. CLASS II INTERIOR SLABS ON GRADE, CONCRETE FILL OVER COMP CONCRETE NOT OTHERWISE IDENTIFIED. MINIMUM F'C=3500 PSI; WATER-F CONTENT 517 LBS. PER CUBIC YARD. C. CLASS III - EXTERIOR SLABS ON GRADE AND PIERS CAST INTEGRAL CONCRETE NOT OTHERWISE IDENTIFIED. MINIMUM F'C=4000
- WATER-REDUCER REQUIRED. MINIMUM CEMENT CONTENT 564 WATER-CEMENTITIOUS MATERIAL RATIO 0.45, AIR CONTENT 6% (+1%, -1. D. CLASS IV - LOW DENSITY, LEAN CONCRETE FILL AS REQUIRED UNDER FOR PREPARE DESIGN MIXTURES FOR EACH TYPE AND STRENGTH OF CONCRET 2.
- LABORATORY TRIAL MIXTURE OR FIELD TEST DATA, OR BOTH, IN ACCORDAN TESTING AGENCY FOR PREPARING AND REPORTING PROPOSED MIXTUREDES
- CEMENTITIOUS MATERIALS: LIMIT PERCENTAGE, BY WEIGHT, OF CEMENTITIOUS CEMENT IN CONCRETE AS FOLLOWS: A. FLY ASH AND OTHER POZZOLANS: 25 PERCENT BY MASS.
- B. SLAG CEMENT: 50 PERCENT BY MASS. C. TOTAL FLY ASH OR OTHER POZZOLANS, SLAG CEMENT: 50 PERCENT BY MA NOT EXCEEDING 25 PERCENT BY MASS.
- D. TOTAL OF FLY ASH OR OTHER POZZOLANS: 35 PERCENT BY MASS WITH FL' EXCEEDING 25 PERCENT BY MASS.
- 4. ALL CONCRETE IS TO BE READY-MIXED PER ASTM C94. ALL ADMIXTURES PLANT, EXCEPT THAT SUPERPLASTICIZER, WHERE USED, IS TO BE ADDED RETARDER CAN BE ADDED AT THE BATCH PLANT.
- A. DESIGN CONCRETE MIXES FOR A MAXIMUM SLUMP OF 4 INCHES, UNLESS B. IF A SUPERPLASTICIZER IS TO BE USED, DESIGN MIXES FOR A SLUMP O ADDITION; MAXIMUM SLUMP PERMITTED AFTER ITS ADDITION IS 8 INCHES.

### PART3 EXECUTION

#### II. SURFACE CONDITIONS

#### III. FORMWORK AND REINFORCING

V. DELIVERY AND PLACEMENT

2.

3. DO NOT ADD WATER TO CONCRETE DURING DELIVERY, AT PROJECT SITE, OR DURING PLACEMENT UNLESS APPROVED

2.

•	SPECIAL INSPECTION AGENCY.		BY ARCHITECT IN WRITING, BUT NOT TO EXCEED THE AMOUNT INDICATED ON THE CONCRETE DELIVERY TICKET. DO NOT ADD WATER TO CONCRETE AFTER ADDING HIGH-RANGE WATER-REDUCING ADMIXTURES TO THE MIXTURE.	DIVISION 5 - THERE IS A	<ul> <li>MISCELLANEOUS STEEL (NOTES IN THIS SECTION ARE TO BE COORDINATED WITH THE STRUCTURAL DRA CONFLICT, THE STRUCTURAL DRAWINGS TAKE PRECEDENCE).</li> </ul>
2.	SUBMIT A MIX DESIGN FOR EACH CLASS OF CONCRETE REQUIRED. SUBMITTALS TO COMPLY WITH APPROPRIATE METHODS LISTED IN ACI 301. INDICATE WHETHER MIXES HAVE BEEN DESIGNED FOR PUMPING.	4.	DELIVERY: A. CONFORM TO ASTM C94.	05 12 00 -	- STRUCTURAL STEEL FRAMING
3.	SUBMIT PDF COPIES OF SHOP DRAWINGS FOR ALL REINFORCING. INDICATE STRENGTH, SIZE, AND DETAILS OF ALL BAR REINFORCING, AND STYLE AND SPECIFICATION OF ALL WELDED WIRE FABRIC. ONLY PRINTS WITH THE APPROVAL STAMP PRINTED ON THEM SHALL BE PERMITTED ON THE SITE.		B. ASTM C94 REQUIRES DISCHARGE WITHIN $1-1/2$ Hours or 300 revolutions, whichever occurs first, after the introduction of water to cement and aggregates, or the introduction of cement to the aggregates. The architect may require an earlier discharge during hot weather.	PART1 GENE	RAL
4.	SUBMIT, ON REQUEST ONLY, PRODUCT LITERATURE FOR ADMIXTURES AND CURING COMPOUNDS PROPOSED FOR USE.		C. PLACE CONCRETE AT THE MAXIMUM SLUMP FOR WHICH THE MIX WAS DESIGNED WITH A TOLERANCE OF UP TO 1 INCH ABOVE THE MAXIMUM FOR ONE BATCH IN ANY FIVE CONSECUTIVE BATCHES TESTED.	6.	CLEANING:
5.	SUBMIT REPORTS OF ALL REQUIRED TESTING AND INSPECTION.	5.	PLACEMENT: A. PLACE CONCRETE IN ACCORDANCE WITH ACI 304R.		A. REMOVE OIL, DIRT, LOOSE MILL SCALE, OR OTHER MATERIAL WHICH WOULD IMPAIR WELDING, PER SLIP CRITICAL CONNECTIONS, OR ADHERENCE OF CONCRETE OR SPRAYED FIREPROOFING.
6.	SUBMIT FOR APPROVAL PROPOSED SPACING AND LOCATION OF CONSTRUCTION AND/OR CONTROL JOINTS IN CONCRETE SLABS ON GRADE.		B. PLACE CONCRETE FOR FLOOR SLABS IN ACCORDANCE WITH ACI 302.1R. C. IN HOT OR COLD WEATHER, PLACE CONCRETE IN ACCORDANCE WITH ACI 305R OR ACI 306R RESPECTIVELY D. UNLESS REQUIRED OTHERWISE PER ACI GUIDELINES, PLACE WITHIN 6 FEET OF FINAL POSITION. SPREADING		B. FOR STEEL THAT IS TO BE PAINTED, CLEANING TECHNIQUES ARE TO BE AS REQUIRED BY THE SSPC PAINT SPECIFICATION LISTED BELOW.
	ERENCE MANUALS		WITH VIBRATORS WITHIN FORMS IS PROHIBITED. E. IN WALLS AND PIERS, DEPOSIT CONCRETE IN UNIFORM HORIZONTAL LAYERS WITH A MAXIMUM DEPTH OF 5 FEET	10.	shop painting: A. Shop—paint steel exposed to view in the finished structure, except that to be gal
1.	PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, MNL-15, AND ONE COPY OF CRSI'S "PLACING REINFORCING BARS," IN THE FIELD OFFICE AT ALL TIMES.		PER HOUR. F. MAXIMUM FREE FALL WITHOUT CHUTES OR ELEPHANT TRUNKS TO BE 5 FEET. G. IF A SECTION CANNOT BE PLACED CONTINUOUSLY, PROVIDE FOR CONSTRUCTION JOINTSAS PROVIDED WITHIN THIS		PRIMER AS FOLLOWS: 1. PREPARE SURFACE BY COMMERCIAL BLAST CLEANING PER "SSPC-SP 6 (WAB)/NACE WAB-3" AN ONE ONLY OF DEPUTY
PROD	JCTS		SPECIFICATION. H. CONSOLIDATE CONCRETE DURING PLACEMENT OPERATIONS, SO CONCRETE IS THOROUGHLY WORKED AROUND		ONE COAT OF PRIMER. 2. MINIMUM DRY FILM THICKNESS SHALL BE 2.0 MILS. 3. DO NOT PAINT SURFACES TO BE ENCASED IN CONCRETE OR TO RECEIVE SPRAYED FIREPROOFIN
RIALS	CEMENTITIOUS MATERIALS:		REINFORCEMENT AND OTHER EMBEDDED ITEMS AND INTO CORNERS. I. MAINTAIN REINFORCEMENT IN POSITION ON CHAIRS DURING CONCRETE PLACEMENT.		CONTACT SURFACES IN SLIP-CRITICAL CONNECTIONS, OR SURFACES TO BE FIELD-WELDED, OR SURFACES OF CRANE RAILS.
	A. PORTLAND CEMENT: ASTM C150, TYPE I, II, OR III. B. FLY ASH: ASTM C618, CLASS C OR F.	VI. JOINTING	INTERIOR SLABS ON GRADE:		B. STEEL NOT EXPOSED TO VIEW IN THE FINISHED STRUCTURE NEED NOT BE PAINTED, EXCEPT ( PORTIONS OF BEAMS OTHER THAN LINTELS EMBEDDED IN OR BUILT WITHIN EXTERIOR WALLS, WH PAINTED WITH TWO COATS OF PRIMER PER THE REQUIREMENTS IN #1 ABOVE, FOR A TOT
	C. SLAG CEMENT: ASTM C989, GRADE 100 OR 120. D. BLENDED HYDRAULIC CEMENT: ASTM C595	1.	A. LOCATE CONTROL AND CONSTRUCTION JOINTS AS SHOWN ON THE DRAWINGS. IN THE ABSENCE OF INFORMATION ON DRAWINGS, LOCATE AT OPENINGS, WALLS, COLUMNS, GRID LINES, INSIDE CORNERS AND AT 15 FEET ON		THICKNESS OF 4.0 MILS. C. PAINT ALL LINTELS IN INTERIOR WALLS WITH ONE COAT OF PRIMER PER THE REQUIREMENTS IN #1
2. 3.	WATER: POTABLE, CONFORMING TO C94. AGGREGATES: ASTM C33. USE SIZE NO. 57 COARSE AGGREGATE, UNLESS OTHERWISE INDICATED, PROVIDE		CENTER GENERALLY. SCHEDULE SLAB PLACEMENTS AND SAWCUTTING OPERATIONS SUCH THAT SAWING IS COMPLETED PRIOR TO ONSET OF SHRINKAGE CRACKING. COMPLETE SAW CUTTING WITHIN 12 HOURS AFTER PLACEMENT.	11.	GALVANIZING:
	AGGREGATES FROM A SINGLE SOURCE.		B. SAW-CUT JOINTS SHALL BE AT LEAST 1/8 INCH WIDE AND 1/4 DEPTH OF SLAB THICKNESS. C. PROVIDE ISOLATION JOINTS AT COLUMNS AND PIERS (1/2 INCH THICK) AND AT WALLS (1/4 INCH THICK)		<ul> <li>A. PREPARE SURFACES ACCORDING TO SSPC-SP 16.</li> <li>B. GALVANIZING IS TO CONFORM TO ASTM A123, GRADE 100, OR ASTM A153, CLASS C. RECOMMENDATIONS OF THE AMERICAN HOT DIP GALVANIZERS ASSOCIATION.</li> </ul>
4.	CHEMICAL OR OTHER ADMIXTURES (WHERE REQUIRED OR PERMITTED): CERTIFIED BY MANUFACTURER TO BE COMPATIBLE WITH OTHER ADMIXTURES THAT DO NOT CONTRIBUTE WATER-SOLUBLE CHLORIDE IONS EXCEEDING THOSE PERMITTED IN HARDENED CONCRETE. DO NOT USE CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM		UNLESS ANOTHER DETAIL IS SPECIFICALLY SHOWN WITHOUT THEM. WHERE ISOLATION JOINT WILL BE EXPOSED TO VIEW, SET TOP OF JOINT FILLER BELOW TOP OF SLAB A DISTANCE EQUAL TO THE FILLER THICKNESS, TO RECEIVE SEALANT. WHERE NOT EXPOSED TO VIEW. SET TOP OF FILLER FLUSH WITH TOP OF SLAB.		C. EXCEPT FOR BOLTS, NUTS, WASHERS, AND ANCHORS, PERFORM ALL GALVANIZING AFTER FABRICATIO D. PRIOR TO GALVANIZING, CLEAN STEEL OF FOREIGN SUBSTANCES PER ASTM A385.
	CHLORIDE.	2.	STRUCTURAL FRAMING MEMBERS:		E. DO NOT TREAT GALVANIZED FINISH WITH A STAIN-INHIBITING CHROMATE TREATMENT. F. AFTER FINAL ERECTION, TOUCH UP ALL ABRASIONS WITH A COLD GALVANIZING COMPOUND,
	A. WATER—REDUCING AND RETARDING: ASTM C494, TYPE A. B. RETARDING ADMIXTURE: ASTM C494, TYPE B. C. WATER—REDUCING AND RETARDING ADMIXTURES: ASTM C494, TYPE D.	3.	A. PLACE JOINTS PERPENDICULAR TO MAIN REINFORCEMENT. EXTERIOR SLABS ON GRADE: LOCATE JOINTS AS SHOWN ON THE DRAWINGS. IN THE ABSENCE OF INFORMATION		GALVANIZING COMPOUND BY ZRC PRODUCTS COMPANY, OR EQUAL. G. GALVANIZE ALL SHELF ANGLES, LINTELS IN EXTERIOR WALL, AND ALL STEEL EXPOSED TO THE E ALL ITEMS INDICATED ON THE DRAWINGS AS GALVANIZED.
	D. HIGH—RANGE, WATER—REDUCING ADMIXTURE: ASTM C494, TYPE F. E. HIGH—RANGE, WATER—REDUCING AND RETARDING ADMIXTURE: ASTM C494, TYPE G. F. PLASTICIZING AND RETARDING ADMIXTURE: ASTMC1017, TYPE II.		ON THE DRAWINGS, PROVIDE THE FOLLOWING: A. EXPANSION JOINTS: FULL DEPTH, WITH 1/2 INCH JOINT FILLER, WHERE SLABS ABUT VERTICAL SURFACES, AT INTERSECTIONS OF SIDEWALKS, AT ABRUPT CHANGES IN WIDTH, AND AT A SPACING NOT EXCEEDING 30 FEET.	PART3 EXEC	UTION
	G. AIR-ENTRAINING ADMIXTURE: ASTM C260. H. SYNTHETIC FIBER REINFORCEMENT: ASTM C1116 AND ASTM C1018.		B. CONTROL JOINTS: TOOLED, 7/8 INCH DEEP, 4'-0" TO 6'-0" ON CENTER BETWEEN EXPANSION JOINTS.	I. SURFACE	CONDITIONS
5.	REINFORCING STEEL: A. DEFORMED BARS: ASTM A615 OR A706. MINIMUM YIELD STRENGTH TO BE 60 KSI. BARS TO BE WELDED ARE	VII. FINISHES	COMPLY WITH ACI 302.1R RECOMMENDATIONS FOR SCREEDING, RESTRAIGHTENING, AND FINISHING OPERATIONS FOR	1.	PRIOR TO BEGINNING WORK OF THIS SECTION, VERIFY THAT THE INSTALLED WORK OF OTHER TRADES AND CORRECT TO THE EXTENT NECESSARY FOR THE PROPER EXECUTION OF THE WORK OF THIS S
	TO BE ASTM A706. B. EPOXY COATING: ASTM A775 OR ASTM A934	2.	CONCRETE SURFACES. DO NOT WET CONCRETE SURFACES. REPAIR SURFACE DEFECTS, INCLUDING TIE HOLES, IMMEDIATELY AFTER REMOVING FORMWORK.		INCLUDES LOCATIONS OF ANCHOR BOLTS, AND LINES AND GRADES OF BEARING AREAS.
6.	C. WELDED WIRE FABRIC: ASTM A1064. PROVIDE IN SHEET FORM (NOT ROLLS). PREFORMED EXPANSION JOINT OR ISOLATION JOINT FILLER: ASTM D1751 OR ASTM D1752.	3.	SCHEDULE OF FINISHES ON FLATWORK IS AS FOLLOWS: A. TROWELED FINISH: TYPICAL INTERIOR FLOOR AREAS TO RECEIVE ADHESIVE—APPLIED FINISH, OR CARPET, OR TO REMAIN EXPOSED.	2.	IN THE EVENT OF DISCREPANCIES, IMMEDIATELY NOTIFY THE ARCHITECT. DO NOT PROCEED WITH WO BY THE DISCREPANCIES UNTIL THEY HAVE BEEN RESOLVED.
	CURING COMPOUND: FOLLOW REQUIREMENTS OF ACI 308R AND COMPLY WITH ASTM C309, TYPE 1, CLASS B		<ul> <li>B. FLOATED FINISH: INTERIOR FLOOR AREAS TO RECEIVE FINISH IN CEMENTITIOUS SETTING BED.</li> <li>C. OTHER SURFACES TO BE LEFT EXPOSED: TROWELED FINISH, MINIMIZING BURNISH MARKS AND OTHER APPEARANCE DEFECTS.</li> </ul>	3.	SAFETY: IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY REGULATIONS GOVERNING THIS WORK.
	(CLEAR). APPLY AT THE MANUFACTURER'S WRITTEN RECOMMENDED APPLICATION RATE. MUST BE COMPATIBLE WITH ADHESIVE SPECIFIED FOR FLOOR FINISHES OR BE REMOVED BY THE CONTRACTOR PRIOR TO APPLYING FLOOR FINISH.		D. BROOM FINISH: EXTERIOR SLABS, STEPS, RAMPS, ETC. E. AS PER INDICATED ON THE DRAWINGS (IF REQUIRED): NON-SLIP OR APPLICATION OD HARDENER PER THE	4.	CLEAN BEARING SURFACES AND OTHER SURFACES IN PERMANENT CONTACT, PRIOR TO ASSEMBLY.
8.	GROUT FOR MASONRY CORE FILL: ASTM C476, COARSE TYPE OR FINE TYPE, PLACED PER ACI 530.1.	3.	MANUFACTURER'S INSTRUCTIONS. IN AREAS WITH FLOOR DRAINS, MAINTAIN FLOOR ELEVATION AT WALLS; PITCH SURFACES UNIFORMLY TO DRAINS AT	5.	SPLICES ARE PERMITTED ONLY WHERE INDICATED.
9.	NON_SHRINK GROUT UNDER BEARING ELEMENTS: ASTM C1107. GRADE A, B, OR C. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS = 7,000 PSI; MINIMUM COMPRESSIVE STRENGTH AT 48 HOURS = 2,000 PSI. ACCEPTABLE	VIII FINISHING	1:50 NOMINAL.	6.	TOLERANCES: PER AISC CODE OF STANDARD PRACTICE.
	PRODUCTS INCLUDE, BUT ARE NOT LIMITED TO: A. SIKAGROUT 212 BY SIKA.		IN GENERAL, CONFORM TO ACI 117 FOR CONCRETE MEMBERS.	7.	TOUCH-UP PAINTING: AFTER ERECTION, TOUCH_UP FIELD CONNECTIONS AND ABRASIONS IN THE SHI SAME PAINT USED FOR SHOP COAT. DO NOT PAINT WELDS UNTIL THEY HAVE BEEN CLEANED IN
12.	CURING AND SEALING COMPOUND: ASTM C1315, TYPE 1, CLASS A, A CLEAR MEMBRANE-FORMING COMPOUND	2.	ALL EXTERIOR SLABS SHALL BE FINISHED TO A 1/2" IN 10'-0" TOLERANCE.		WITH AWS D1.1.
	WHICH WILL NOT YELLOW. MUST BE FORMULATED FOR INTENDED APPLICATION, EITHER INTERIOR OR EXTERIOR AND APPLIED PER MANUFACTURER'S WRITTEN RECOMMENDATIONS.	IX. CURING A	ND PROTECTION	05 5000 - Part 1 gen	METAL FABRICATIONS
13.	KEYED FLOOR SLAB JOINTS: MILL GALVANIZED STEEL, 20 GAGE MINIMUM, WITH MINIMUM KEY DIMENSIONS OF 3/4 INCH DEEP BY 1–1/2 INCHES AT ITS WIDEST POINT. ACCEPTABLE PRODUCTS INCLUDE, BUT ARE NOT LIMITED TO:	1.	TEMPERATURE: A. WHEN AIR TEMPERATURE DURING PLACEMENT IS LESS THAN 40 DEGREES, OR WILL BE WITHIN 24 HOURS,	1.	INCLUDES SHOP FABRICATED STEEL ITEMS.
14	K. TONGUE & GROOVE JOINT 95 BY HECKMANN BUILDING PRODUCTS, INC. JOINT SEALANT: USE 1-COMPONENT POLYURETHANE, CONFORMING TO ASTM C920, TYPE S, GRADE NS, CLASS 25.		TEMPERATURE OF CONCRETE AS PLACED IS TO BE BETWEEN 50 AND 90 DEGREES F (55 AND 90 DEGREES F FOR SECTIONS LESS THAN 12 INCHES THICK). MAINTAIN CONCRETE TEMPERATURE WITHIN THESE LIMITS FOR	2.	SUBMIT SHOP DRAWINGS THAT INDICATE PROFILES, SIZES, CONNECTION ATTACHMENTS, REINFORCING
	USE WITH BACKER ROD AS REQUIRED.		THE FULL CURING PERIOD OF SEVEN DAYS.		SIZE AND TYPE OF FASTENERS. INCLUDE ERECTION DRAWINGS, ELEVATIONS, AND DETAILS WHERE APPLI
15.	UNDERSLAB VAPOR BARRIER: A. 10 MIL POLYETHYLENE SHEETS. OVERLAP AND TAPE JOINTS. B. RETARDING SHEET VAPOR RETARDER: ASTM E1745, CLASS A; NOT LESS THAN 10 MILS (0.25 MM) THICK.	2.	CURING: A. COMPLY WITH THE REQUIREMENTS OF ACI 308R. B. ALL EXTERIOR SLAB AREAS MAY BE EITHER MOIST-CURED OR RECEIVE AN APPLICATION OF CURING COMPOUND.	PART 2 PRC	ducts Materials — steel
	INCLUDE MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE-SENSITIVE TAPE.		CURING COMPOUNDS AND OTHER SURFACE COATINGS ARE USUALLY CONSIDERED UNACCEPTABLE BY FLOORING AND ADHESIVE MANUFACTURERS. IF SUCH MATERIALS MUST BE USED, EITHER OBTAIN THE APPROVAL OF THE	1.	A. STEEL SECTIONS: ASTM A 36/A 36M. B. STEEL TUBING: ASTM A501/A501M HOT-FORMED STRUCTURAL TUBING.
16. [	DOVETAIL SLOTS: GALVANIZED STEEL, 24 GAGE MINIMUM.		FLOORING AND ADHESIVE MANUFACTURER PRIOR TO USE OR REMOVE THE SURFACE COATING AFTER CURING TO FLOORING MANUFACTURER'S SATISFACTION. C. WHICHEVER CURING METHOD IS USED, IT IS TO COMMENCE IMMEDIATELY AFTER DISAPPEARANCE OF WATER		C. PLATES: ASTM A 283. D. PIPE: ASTM A 53/A 53M, GRADE B SCHEDULE 40, BLACK FINISH.
S	FOLLOWING CLASSES OF CONCRETE ARE REQUIRED (F'C AT 28 DAYS):		SHEEN, AND CONTINUE FOR AT LEAST SEVEN DAYS. DO NOT ALLOW CURING TO BE DELAYED OVERNIGHT. D. PREVENT EXCESSIVE MOISTURE LOSS FROM FORMED SURFACES. IF FORMS ARE REMOVED BEFORE SEVEN DAYS		E. BOLTS, NUTS, AND WASHERS: ASTM A 325 (ASTM A 325M), TYPE 1, GALVANIZED TO ASTM A WHERE CONNECTING GALVANIZED COMPONENTS).
INC	A. CLASS I — FOOTINGS; MINIMUM F'C = 3000 PSI. B. CLASS II — INTERIOR SLABS ON GRADE, CONCRETE FILL OVER COMPOSITE STEEL DECK, AND ALL INTERIOR		HAVE ELAPSED, CURE THE FORMED SURFACES BY MOIST-CURING OR APPLICATION OF CURING COMPOUND FOR THE REMAINDER OF THE CURING PERIOD.		<ul> <li>F. WELDING MATERIALS: AWS D1.1/D1.1M; TYPE REQUIRED FOR MATERIALS BEING WELDED.</li> <li>G. SHOP AND TOUCH-UP PRIMER: SSPC-PAINT 15, COMPLYING WITH VOC LIMITATIONS OF AUTHO JURISDICTION.</li> </ul>
	Concrete not otherwise identified. Minimum f'C=3500 psi; water-reducer required. Minimum cement content 517 LBS. Per cubic yard.		E. ALL EXTERIOR SLABS ARE TO RECEIVE AN APPLICATION OF CURING/SEALING COMPOUND TO HARDENED CONCRETE PRIOR TO COMPLETION OF CONSTRUCTION.	2.	JURISDICTION.
	C. CLASS III – EXTERIOR SLABS ON GRADE AND PIERS CAST INTEGRAL WITH SUCH WALLS, AND ALL EXTERIOR CONCRETE NOT OTHERWISE IDENTIFIED. MINIMUM F'C=4000 PSI; AIR-ENTRAINING ADMIXTURE AND WATER-REDUCER REQUIRED. MINIMUM CEMENT CONTENT 564 LBS. PER CUBIC YARD. MAXIMUM	X. GROUTING			A. FIT AND SHOP ASSEMBLE ITEMS IN LARGEST PRACTICAL SECTIONS, FOR DELIVERY TO SITE.
	WATER-CEMENTITIOUS MATERIAL RATIO 0.45, AIR CONTENT 6% (+1%, -1.5%). D. CLASS IV - LOW DENSITY, LEAN CONCRETE FILL AS REQUIRED UNDER FOOTINGS. MINIMUM F'C=500 PSI	1.	GROUT BELOW COLUMN BASE PLATES IS TO BE INSTALLED ONLY AFTER THE STEEL IS PLUMBED. THE USE OF LEVELING PLATES AT COLUMN BASES IS PROHIBITED.		B. FABRICATE ITEMS WITH JOINTS TIGHTLY FITTED AND SECURED.
2.	PREPARE DESIGN MIXTURES FOR EACH TYPE AND STRENGTH OF CONCRETE, PROPORTIONED ON THE BASIS OF LABORATORY TRIAL MIXTURE OR FIELD TEST DATA, OR BOTH, IN ACCORDANCE WITH ACI 301. USE A QUALIFIED		INSTALL GROUT PER THE RECOMMENDATIONS OF THE MANUFACTURER.		C. GRIND EXPOSED JOINTS FLUSH AND SMOOTH WITH ADJACENT FINISH SURFACE. MAKE EXPOSED TIGHT, FLUSH, AND HAIRLINE. EASE EXPOSED EDGES TO SMALL UNIFORM RADIUS.
	TESTING AGENCY FOR PREPARING AND REPORTING PROPOSED MIXTUREDESIGNS, BASED ON LABORATORY TRIAL ADMIXTURES.				D. SUPPLY COMPONENTS REQUIRED FOR ANCHORAGE OF FABRICATIONS. FABRICATE ANCHORS COMPONENTS OF SAME MATERIAL AND FINISH AS FABRICATION, EXCEPT WHERE SPECIFICALLY NOTED
3.	CEMENTITIOUS MATERIALS: LIMIT PERCENTAGE, BY WEIGHT, OF CEMENTITIOUS MATERIALS OTHER THAN PORTLAND CEMENT IN CONCRETE AS FOLLOWS:	1.	TEST REPORTS SHALL INCLUDE REPORTING REQUIREMENTS OF ASTM C31, ASTM C39, AND ACI 301. MAINTAIN RECORDS OF ALL TESTS, INDICATING EXACT LOCATION OF THE STRUCTURE REPRESENTED BY EACH TEST.	3.	FABRICATED ITEMS
	A. FLY ASH AND OTHER POZZOLANS: 25 PERCENT BY MASS. B. SLAG CEMENT: 50 PERCENT BY MASS.	2.	OBTAIN CONCRETE FOR REQUIRED TESTS AT POINT OF PLACEMENT.		A. LEDGE ANGLES, SHELF ANGLES, CHANNELS, AND PLATES NOT ATTACHED TO STRUCTURAL FRAMING: FINISH.
	C. TOTAL FLY ASH OR OTHER POZZOLANS, SLAG CEMENT: 50 PERCENT BY MASS, WITH FLY ASH OR POZZOLANS NOT EXCEEDING 25 PERCENT BY MASS. D. TOTAL OF FLY ASH OR OTHER POZZOLANS: 35 PERCENT BY MASS WITH FLY ASH OR POZZOLANS NOT	3.	FOR EACH CONCRETE CLASS, PREPARE AS COMPOSITE SAMPLE AND CURED TEST CYLINDERS AND PERFORM A STRENGTH TEST FOR EACH 100 YARDS, OR FRACTION THEREOF, PLACED IN ANY ONE DAY. COMPOSITE SAMPLES OF		B. RAILING ASSEMBLY: PIPE HAND RAILS, WALL RAILS, AND ALL ATTACHMENTS TO RESIST LATERAL
	EXCEEDING 25 PERCENT BY MASS.		FRESH CONCRETE SHALL BE OBTAINED IN ACCORDANCE WITH ASTM C172.		LBS AT ANY POINT WITHOUT DAMAGE OR PERMANENT SET. TEST IN ACCORDANCE WITH ASTM E WELDING FITTINGS TO JOIN LENGTHS, SEAL OPEN ENDS, AND CONCEAL EXPOSED MOUNTING BOL INCLUDING BUT NOT LIMITED TO ELBOWS. T-SHAPES. SPLICE CONNECTORS. FLANGES. ESCUTCHEO
4.	ALL CONCRETE IS TO BE READY-MIXED PER ASTM C94. ALL ADMIXTURES ARE TO BE ADDED AT THE BATCH PLANT, EXCEPT THAT SUPERPLASTICIZER, WHERE USED, IS TO BE ADDED AT THE SITE. SUPERPLASTICIZER RETARDER CAN BE ADDED AT THE BATCH PLANT.	4.	A. SLUMP: ASTM C143 B. SLUMP FLOW: ASTM C1611		BRACKETS.
5.	SLUMP:		C. AIR CONTENT: ASTM C231 D. TEMPERATURE: ASTM C1064. DETERMINE CONCRETE TEMPERATURE FOR EACH STRENGTH TEST WHEN AIR	4.	FINISHES - STEEL A. PRIME PAINT STEEL ITEMS.
	A. DESIGN CONCRETE MIXES FOR A MAXIMUM SLUMP OF 4 INCHES, UNLESS A SUPERPLASTICIZER IS TO BE USED. B. IF A SUPERPLASTICIZER IS TO BE USED, DESIGN MIXES FOR A SLUMP OF 2 INCHES – 3 INCHES BEFORE ITS ADDITION: MAXIMUM SLUMP PERMITTED AFTER ITS ADDITION IS 8 INCHES.		TEMPERATURE IS LESS THAN 40 DEGREES F OR WILL BE WITHIN 24 HOURS. E. UNIT WEIGHT: ASTM C567		B. PREPARE SURFACES TO BE PRIMED IN ACCORDANCE WITH SSPC-SP2.
			F. COMPRESSION TEST SPECIMEN: ASTM C31. CAST AND FIELD CURE AT LEAST TWO SETS OF THREE CYLINDER SPECIMENS FOR EACH REQUIRED SAMPLE AND STRENGTH TEST. ALSO CAST AND LABORATORY CURE THE SAME. G. COMPRESSIVE STRENGTH TEST: ASTM C39. TEST ONE SET OF TWO SPECIMENS AT SEVEN DAYS AND ONE SET OF		C. CLEAN SURFACES OF RUST, SCALE, GREASE, AND FOREIGN MATTER PRIOR TO FINISHING.
execl Tion			TWO SPECIMENS AT 28 DAYS. A COMPRESSIVE STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM A SET OF TWO SPECIMENS OBTAINED FROM THE SAME COMPOSITE SAMPLE AND TESTED AT AGE INDICATED.		D. PRIME PAINTING: ONE COAT.
1.	THIS STRUCTURE IS DESIGNED TO BE FULLY SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY ANCHORING TO THE FOUNDATIONS IS COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE INSTALLATION	5.	DO NOT PLACE CONCRETE WHEN SLUMP, AIR CONTENT OR TEMPERATURE VARY FROM ALLOWABLE.		- wood, plastics, and composites (notes in this section are to be coordinated with the str f there is a conflict, the structural drawings take precedence).
	PROCEDURES AND SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS, DURING INSTALLATION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY GUYS, BRACING OR TIE-DOWNS THAT MIGHT BE NECESSARY. SUCH		WHEN STRENGTH OF FIELD-CURED CYLINDERS IS LESS THAN 85 PERCENT OF COMPANION LABORATORY-CURED CYLINDERS, CONTRACTOR SHALL EVALUATE OPERATIONS AND PROVIDE CORRECTIVE PROCEDURES FOR PROTECTING		STRUCTURAL LUMBER, SHEATHING, AND ROUGH CARPENTRY
	of any shoring, sheeling, lemporary guys, bracing or tie-downs 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.		CYLINDERS, CONTRACTOR SHALL EVALUATE OPERATIONS AND PROVIDE CORRECTIVE PROCEDURES FOR PROTECTING AND CURING IN-PLACE CONCRETE.	1.	ROUGH OPENINGS OF ALL DOORS, WINDOWS, ETC. SHALL BE VERIFIED BY CONTRACTOR PRIOR TO INST
ACE	CONDITIONS	7.	STRENGTH OF EACH CONCRETE MIXTURE WILL BE SATISFACTORY IF EVERY AVERAGE OF ANY THREE CONSECUTIVE COMPRESSIVE-STRENGTH TESTS EQUALS OR EXCEEDS SPECIFIED COMPRESSIVE STRENGTH AND NO	2.	CARPENTRY CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR REGARDING LOCATION AN
1.	VERIFY THAT EXCAVATIONS ARE FREE OF WATER AND ICE, ARE OF THE REQUIRED DIMENSIONS, AND HAVE BEEN APPROVED BY THE TESTING AGENCY RESPONSIBLE FOR SOILS INSPECTION, PRIOR TO PLACING CONCRETE.		COMPRESSIVE-STRENGTH TEST VALUE FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI WHEN THE SPECIFIED COMPRESSIVE STRENGTH IS 5,000 PSI OR LESS.	3	ALL WOOD BLOCKING PRIOR TO FINISH MATERIAL INSTALLATION. ALL STRUCTURAL GRADE LUMBER SHALL HAVE A MINIMUM ALLOWABLE STRESS IN COMPRESSION OF
2.	DETERMINE FIELD CONDITIONS BY ACTUAL MEASUREMENT.	8.	ADDITIONAL TESTS:		GREATER AND A MODULUS OF ELASTICITY OF 1,500,000 PSI.
	K AND REINFORCING		A. TESTING AND INSPECTING AGENCY SHALL MAKE ADDITIONAL TESTS OF CONCRETE WHEN TEST RESULTS INDICATE THAT SLUMP, AIR ENTRAINMENT, COMPRESSIVE STRENGTHS, OR OTHER REQUIREMENTS HAVE BEEN MET, AS	4.	WHERE REQUIRED, STRUCTURAL LUMBER SHALL BE TREATED PER GOVERNMENTAL CODES AND REGUL/ JURISDICTION OVER THE PROJECT. PROVIDE WRITTEN CERTIFICATION FOR FIRE RETARDANT CLASSIFICA' ACCREDITED INDEPENDENT LABORATORY.
1. 2.	FOOTINGS MAY BE CAST AGAINST EARTH CUTS WHEN SOIL CONDITIONS PERMIT. REMOVAL OF FORMS AND SHORING:		DIRECTED BY ARCHITECT OR ENGINEER. B. TESTING AND INSPECTING AGENCY MAY CONDUCT TESTS TO DETERMINE ADEQUACY OF CONCRETE BY CORED CYLINDERS COMPLYING WITH ASTM C42/C42M OR BY OTHER METHODS AS DIRECTED BY ARCHITECT OR	5.	ROUGH CARPENTER TO FURNISH AND INSTALL JOIST HANGERS FOR ALL WOOD TRUSSES, JOISTS
	A. REMOVE NO FORMS WITHIN FIRST 24 HOURS AFTER PLACEMENT.		ENGINEER. C. NON-DESTRUCTIVE TESTING: IMPACT HAMMER, SONOSCOPE, OR OTHER NON-DESTRUCTIVE DEVICE MAY BE		FRAMING INTO SIDES OF OTHER MEMBERS. CONTRACTOR TO FURNISH HANGERS SIZED IN ACCO SIMPSON DESIGN GUIDELINES FOR THE SPECIFIED LOADING AS SHOWN ON DRAWINGS.
	) ITEMS PLACE AND SECURE ANCHORAGE DEVICES AND OTHER EMBEDDED ITEMS REQUIRED FOR ADJOINING WORK THAT IS		PERMITTED BY ARCHITECT OR ENGINEER BUT WILL NOT BE USED AS SOLE BASIS FOR APPROVAL OR REJECTION OF CONCRETE. D. ACCEPTANCE CRITERIA FOR CONCRETE STRENGTH SHALL BE IN ACCORDANCE WITH ACI 301 SECTION 1.6.6	6.	ROUGH CARPENTRY TO FURNISH AND INSTALL SIMPSON HS SEISMIC/HURRICANE ANCHORS AT BEARIN ALL ROOF MEMBERS (INCLUDING CONVENTIONAL FRAMING AND WOOD TRUSSES) TO PREVENT UPLIFT.
	ATTACHED TO OR SUPPORTED BY CAST-IN-PLACE CONCRETE: A. USE SETTING DRAWINGS, TEMPLATES, DIAGRAMS, INSTRUCTIONS, AND DIRECTIONS FURNISHED WITH ITTEMS TO BE EMBEDDED.	9.	ADDITIONAL TESTING AND INSPECTING, AT CONTRACTOR'S EXPENSE, WILL BE PERFORMED TO DETERMINE COMPLIANCE	7.	ALL EXTERIOR LUMBER TO BE PRESSURE TREATED AND RATED FOR GROUND CONTACT WHERE APPLICA
	EMBEDDED. B. INSTALL ANCHOR RODS, ACCURATELY LOCATED, TO ELEVATIONS REQUIRED AND COMPLYING WITH TOLERANCES IN SECTION 7.5 OF ANSI/AISC 303.		OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS.		ALL FASTENERS USED SHALL BE GALVANIZED AND SHALL BE COMPATIBLE FOR USE WITH PRESS
2.	INSTALL EMBEDDED CONDUIT, PIPES AND SLEEVES SUBJECT TO THE FOLLOWING LIMITATIONS A. DO NOT EMBED ALUMINUM WITHOUT PRIOR APPROVAL OF COATING MATERIAL.	10.	CORRECT DEFICIENCIES IN THE WORK THAT TEST REPORTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS.		LUMBER.
	<ul> <li>B. DO NOT DISPLACE REINFORCING STEEL.</li> <li>C. IN SLABS AND WALLS, LIMIT OUTSIDE DIMENSION OF CONDUITS AND PIPES TO 1/3 MEMBER THICKNESS.</li> </ul>		– MASONRY (NOTES IN THIS SECTION ARE TO BE COORDINATED WITH THE STRUCTURAL DRAWINGS. IF THERE IS A IE STRUCTURAL DRAWINGS TAKE PRECEDENCE).		- THERMAL & MOISTURE PROTECTION
/ERY	D. MAINTAIN A CENTER-TO-CENTER SPACING OF AT LEAST THREE DIAMETERS OF CONDUIT OR PIPE.		UNIT MASONRY	1	BATT INSULATION
	PREPARATION BEFORE PLACEMENT:		STANDARD CONCRETE BLOCK UNITS SHALL COMPLY WITH ASTM C-90 FOR HOLLOW LOAD BEARING UNITS, ASTM		A. CODE COMPLIANT BATT INSULATION HAS BEEN PREVIOUSLY BEEN INSTALLED AT THE TIME THE N
	<ul> <li>A. VERIFY THAT INSTALLATION OF FORMWORK, REINFORCEMENT, EMBEDDED ITEMS, AND VAPOR RETARDER IS COMPLETE AND THAT REQUIRED INSPECTIONS ARE COMPLETED.</li> <li>B. IMMEDIATELY PRIOR TO CONCRETE PLACEMENT, INSPECT VAPOR RETARDER FOR DAMAGE AND DEFICIENT</li> </ul>	n	C-145 FOR SOLID LOAD BEARING UNITS AND ASTM C-55 FOR CONCRETE BRICK.	2. FLASHING	WAS MANUFACTURED. NO MODIFICATIONS ARE TO TAKE PLACE WITH THE UNIT.
	INSTALLATION, AND REPAIR DEFECTIVE AREAS. C. REMOVE ALL DEBRIS FROM FORMS AND DECK. CLEAN STEEL DECK OF GREASE, OIL, AND OTHER SUBSTANCES WHICH WOULD REDUCE BOND TO CONCRETE.		MINIMUM BEARING OF MASONRY ON MASONRY SHALL BE 7 1/2", U.N.O. IN THE DRAWINGS.		A. OPTIONAL APPLICATION OF SELF-HEALING, 4" WIDE PEEL-N-STICK MEMBRANE FLASHING TO BE
	D. DO NOT USE ADDITIVES OR SALTS TO REMOVE ICE. E. IN COLD WEATHER, MAINTAIN TEMPERATURE OF FORMS AND REINFORCING SUCH THAT CONCRETE TEMPERATURE		MASONRY CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF SLEEVES THROUGH FOUNDATION WALLS. SLEEVES		TOP OF EXTERIOR WOOD JOISTS AND HEADERS PRIOR TO THE INSTALLATION OF DECKING.
2.	CAN BE KEPT WITHIN THE SPECIFIED RANGE. NOTIFY ARCHITECT AND SPECIAL INSPECTION AND TESTING AGENCY 24 HOURS PRIOR TO PLACING CONCRETE.		AND THEIR LOCATIONS ARE TO BE PROVIDED BY THE VARIOUS CONTRACTORS' NEED FOR SLEEVES.		- OPENINGS
	DO NOT ADD WATER TO CONCRETE DURING DELIVERY, AT PROJECT SITE, OR DURING PLACEMENT UNLESS APPROVED	5.	SUBMIT PDF'S OF SHOP DRAWINGS OF REINFORCING MATERIALS FOR APPROVAL, PRIOR TO FABRICATION.	*THE PRE-N INSTALLED.	IANUFACTURED UNIT IS UNDERSTOOD TO BE COMPLETE WITH CODE COMPLIANT DOORS AND HARDWARE AI

TO BE COORDINATED WITH THE STRUCTURAL DRAWINGS. IF NCE).	DIVISION 09 - FINISHES - NOT APPLICABLE
	*THE PRE-MANUFACTURED UNIT IS UNDERSTOOD TO BE COMPLETE WITH FINISHES ALREADY INSTALLED. MODIFICATIONS OR REPLACEMENT OF FINISHES IS THE RESPONSIBILITY OF THE OWNER, AND THEY ARE REQUIRED TO MEET THE REQUIREMENTS
	LISTED IN THE BUILDING CODE. DIVISION 10 - SPECIALTIES - NOT APPLICABLE
ER MATERIAL WHICH WOULD IMPAIR WELDING, PERFORMANCE OF CONCRETE OR SPRAYED FIREPROOFING. TECHNIQUES ARE TO BE AS REQUIRED BY THE APPROPRIATE	10 4400 - FIRE PROTECTION SPECIALTIES
	3. TYPE 1: PROVIDE AND INSTALL STANDARD WALL BRACKET MOUNTED 2A-10BC-ABC DRY CHEMICAL FIRE EXTINGUISHER. VERIFY SIZE AND TYPE OF FIRE EXTINGUISHER PRIOR TO ORDERING.
FINISHED STRUCTURE, EXCEPT THAT TO BE GALVANIZED, WITH EANING PER "SSPC-SP 6 (WAB)/NACE WAB-3" AND APPLY	DIVISION 11 - EQUIPMENT - NOT APPLICABLE
MILS. Concrete or to receive sprayed fireproofing, or	DIVISION 12 - FURNISHINGS - NOT APPLICABLE DIVISION 13 - SPECIAL CONSTRUCTION - NOT APPLICABLE
TIONS, OR SURFACES TO BE FIELD—WELDED, OR TOP O STRUCTURE NEED NOT BE PAINTED, EXCEPT COLUMNS AND EDDED IN OR BUILT WITHIN EXTERIOR WALLS, WHICH SHALL BE	DIVISION 14 - CONVEYING EQUIPMENT - NOT APPLICABLE
COAT OF PRIMER PER THE REQUIREMENTS IN #1 ABOVE.	DIVISION 21 - FIRE PROTECTION (FIRE SUPPRESSION/SPRINKLER/STANDPIPE SYSTEMS) - NOT APPLICABLE
CONT OF FRAMER FER THE REQUIREMENTS IN #1 ADOVE.	DIVISION 22 - PLUMBING - (SEE MECHANICAL SHEET FOR SPECIFICATIONS) DIVISION 23 - HEATING, VENTILATING & AIR CONDITIONING (SEE MECHANICAL SHEET FOR SPECIFICATIONS)
3, GRADE 100, OR ASTM A153, CLASS C. FOLLOW ALL ALVANIZERS ASSOCIATION. DRS, PERFORM ALL GALVANIZING AFTER FABRICATION.	DIVISION 26 - ELECTRICAL - (SEE ELECTRICAL SHEET FOR SPECIFICATIONS)
N SUBSTANCES PER ASTM A385. -INHIBITING CHROMATE TREATMENT. -SIONS WITH A COLD GALVANIZING COMPOUND, Z.R.C. COLD	DIVISION 31 - EARTHWORK
PANY, OR EQUAL. IRIOR WALL, AND ALL STEEL EXPOSED TO THE ELEMENTS AND VANIZED.	<ol> <li>COMPLY WITH ALL REGULATIONS OF THOSE GOVERNMENTAL AGENCIES HAVING JURISDICTION REGARDING DISPOSAL OF EXCESS AND WASTE MATERIALS.</li> </ol>
	2. CONTRACTOR(S) SHALL BE RESPONSIBLE TO EXAMINE THE SITE AND VERIFY THE EXTENT OF DEMOLITION WORK PRIOR TO SUBMITTING PROPOSAL.
THAT THE INSTALLED WORK OF OTHER TRADES IS COMPLETE	3. ALL WORK IN RIGHT-OF-WAY SHALL MEET ALL REGULATIONS AND STANDARDS OF THOSE GOVERNMENTAL AGENCIES HAVING JURISDICTION.
E PROPER EXECUTION OF THE WORK OF THIS SECTION. THIS AND GRADES OF BEARING AREAS.	4. LOCATE AND PROTECT BENCH MARKS, MONUMENTS AND CONTROL POINTS AND, IF DISTURBED OR DESTROYED, REPAIR AND/OR REPLACE AT NO COST TO THE OWNER.
IFY THE ARCHITECT. DO NOT PROCEED WITH WORK AFFECTED OLVED. PONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND	5. IN EVENT OF DESTRUCTION OR DAMAGE TO ITEMS NOTED NOT TO BE DEMOLISHED OR REMOVED INCLUDING UNDERGROUND OR OVERHEAD UTILITIES, PROMPTLY REPAIR OR REPLACE SUCH ITEMS TO THE SATISFACTION OF AND AT NO COST TO THE OWNER.
PERMANENT CONTACT, PRIOR TO ASSEMBLY.	6. CAREFULLY DEMOLISH AND REMOVE FROM THE SITE THOSE ITEMS NOTED ON DRAWINGS, PAYING STRICT ATTENTION TO ITEMS SCHEDULED TO BE REMOVED AND RELOCATED OR RETURNED TO OWNER. PAY CLOSE ATTENTION TO AREAS OF SELECTIVE DEMOLITION. ITEMS SCHEDULED FOR RE-USE OR SALVAGE ARE TO BE REMOVED WITHOUT DAMAGE AND TURNED OVER TO OWNER OR STORED FOR RE-INSTALLATION.
ICE.	7. REMOVE ALL EXISTING SLABS, FOOTINGS, FOUNDATIONS, WOOD, METAL, REFUSE, UNSUITABLE SOIL, ETC. WITHIN AREA OF NEW BUILDING FOUNDATIONS. ALL OTHER ITEMS INTERFERING WITH SITE IMPROVEMENTS SHALL BE
FIELD CONNECTIONS AND ABRASIONS IN THE SHOP COAT WITH INT WELDS UNTIL THEY HAVE BEEN CLEANED IN ACCORDANCE	REMOVED TO A MINIMUM OF THREE (3) FEET BELOW FINISHED GRADE. 8. REPAIR AND REPLACE DISTURBED/DAMAGED PAVING, CURBS AND SIDEWALKS AS A RESULT OF THE CONSTRUCTION
	OF THIS PROJECT TO THE SATISFACTION OF THE ARCHITECT. 9. IF REQUIRED, GENERAL CONTRACTOR WILL DO ONLY MACHINE GRADING OF DISTURBED AREAS TO MEET FINAL
	GRADES. 10. EARTH FILL, WHEN REQUIRED, CAPABLE OF ACHIEVING THE SPECIFIED COMPACTION SHALL BE PLACED IN
SIZES, CONNECTION ATTACHMENTS, REINFORCING, ANCHORAGE, DRAWINGS, ELEVATIONS, AND DETAILS WHERE APPLICABLE.	HORIZONTAL LAYERS NOT GREATER THAN 8" OF UNCOMPACTED THICKNESS. 11. IN AREAS DESIGNATED FOR BUILDINGS, WALKS AND PAVING, COMPACT THE SUB-GRADE AND, WHEN REQUIRED, EACH
	LAYER OF FILL TO A UNIFORM FIRM CONDITION TO ACHIEVE 98% OF MAXIMUM DENSITY PER ASTM D-698. NON-STRUCTURAL FILL MAY BE COMPACTED TO 90% OF THIS VALUE.
STRUCTURAL TUBING.	12. FINISHED GRADES AND WALKS SHALL SLOPE AWAY FROM BUILDING TO PREVENT PONDING OR STANDING WATER.
40, BLACK FINISH. TM A 325M), TYPE 1, GALVANIZED TO ASTM A 153/A (153M	13. JUST PRIOR TO INSTALLATION, PROOF ROLL ALL AREAS WHERE BUILDING, WALKS AND PAVING CONSTRUCTION WILL OCCUR TO VERIFY COMPACTION CONDITIONS. REMOVE ANY SOFT OR UNSUITABLE MATERIAL AND REPLACE WITH FILL PER ITEM 10 ABOVE.
QUIRED FOR MATERIALS BEING WELDED. 15, COMPLYING WITH VOC LIMITATIONS OF AUTHORITIES HAVING	14. OWNER TO PROVIDE ALL LANDSCAPE WORK SHOWN ON DRAWINGS.
ctical sections, for delivery to site.	15. SITE LAYOUT OF UTILITIES IS SCHEMATIC AND APPROXIMATE. CONTRACTOR(S) SHALL CHECK RECORDS AND DRAWINGS FOR EXISTING UTILITIES AND VERIFY, AT THE SITE, THEIR LOCATION AND SERVICE CONNECTIONS. IF UTILITIES ARE UNCHARTED OR INCORRECTLY CHARTED AND SUBSEQUENTLY ENCOUNTERED, IMMEDIATELY NOTIFY THE APPLICABLE UTILITY COMPANY AND OWNER FOR PROCEDURE DIRECTIONS.
D SECURED.	16. ALL UTILITIES TO BE INSTALLED IN ACCORDANCE WITH CODES AND REGULATIONS OF GOVERNMENTAL AGENCIES AND UTILITY COMPANIES HAVING JURISDICTION OVER THIS PROJECT.
ITH ADJACENT FINISH SURFACE. MAKE EXPOSED JOINTS BUTT DGES TO SMALL UNIFORM RADIUS.	17. GAS SERVICE:
AGE OF FABRICATIONS. FABRICATE ANCHORS AND RELATED FABRICATION, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.	A. SEE SITE AND PLUMBING DRAWINGS FOR CONNECTIONS TO EXISTING NATURAL GAS SERVICE. CONFIRM GAS TAP SIZE AND LOCATION WITH GAS COMPANY SERVICING THE AREA AND COORDINATE WITH PLUMBING CONTRACTOR RESPONSIBLE FOR INSTALLING GAS SERVICE.
PLATES NOT ATTACHED TO STRUCTURAL FRAMING: PRIME PAINT	23. ELECTRIC SERVICE: A. CONFIRM TYPE OF ELECTRIC SERVICE, TYPE AND SIZE OF TRANSFORMER AND METER, AND THEIR INSTALLATION
LS, AND ALL ATTACHMENTS TO RESIST LATERAL FORCE OF 75 VENT SET. TEST IN ACCORDANCE WITH ASTM E 935. PROVIDE N ENDS, AND CONCEAL EXPOSED MOUNTING BOLTS AND NUTS, PES, SPLICE CONNECTORS, FLANGES, ESCUTCHEONS, AND WALL	WITH ELECTRIC COMPANY SERVING AREA, COORDINATING SAME WITH ELECTRICAL CONTRACTOR. B. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR CONNECTIONS TO EXISTING SERVICES, INCLUDING FIRE ALARM. 24. TELEPHONE SERVICE:
	A. IF LAND LINE IS REQUIRED TO BE INSTALLED, CONFIRM WITH TELEPHONE COMPANY SERVING THE AREA THE LOCATION OF TELEPHONE SERVICE FROM POINT OF TAP—IN TO BUILDING'S MAIN TELEPHONE TERMINAL
ICE WITH SSPC-SP2. FOREIGN MATTER PRIOR TO FINISHING.	ENTRANCE, COORDINATING SAME WITH ELECTRICAL CONTRACTOR
SECTION ARE TO BE COORDINATED WITH THE STRUCTURAL AKE PRECEDENCE).	
HALL BE VERIFIED BY CONTRACTOR PRIOR TO INSTALLATION.	
GENERAL CONTRACTOR REGARDING LOCATION AND EXTENT OF TALLATION.	
NIMUM ALLOWABLE STRESS IN COMPRESSION OF 1.400 PSI OR 200 PSI.	
TREATED PER GOVERNMENTAL CODES AND REGULATIONS HAVING N CERTIFICATION FOR FIRE RETARDANT CLASSIFICATION FROM AN	
ST HANGERS FOR ALL WOOD TRUSSES, JOISTS AND RAFTERS TRACTOR TO FURNISH HANGERS SIZED IN ACCORDANCE WITH ADING AS SHOWN ON DRAWINGS.	
SON HS SEISMIC/HURRICANE ANCHORS AT BEARING POINTS OF MING AND WOOD TRUSSES) TO PREVENT UPLIFT.	
ND RATED FOR GROUND CONTACT WHERE APPLICABLE.	
) Shall be compatible for use with pressure treated	
PREVIOUSLY BEEN INSTALLED AT THE TIME THE MODULAR UNIT TAKE PLACE WITH THE UNIT.	
IDE PEEL-N-STICK MEMBRANE FLASHING TO BE PLACED OVER	
RIOR TO THE INSTALLATION OF DECKING.	
WITH CODE COMPLIANT DOORS AND HARDWARE ALREADY	
	1

3351 McDowell Road P.O. Box 370 Grove City, Ohio 43123 Phone: (614) 875-1689 Fax: (614) 875-7006 www.mcknightgroup.co PHILIP J. TIPTON 13225 MCD ARCHITCHIM PHILIP J. TIPTON, LICENSE #13225 EXPIRATION DATE 12/31/2023 Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take precedence.	m
PHILIP J. TIPTON 13225 PHILIP J. TIPTON, LICENSE #13225 EXPIRATION DATE 12/31/2023 Architect is not responsible for any dimensions scaled from drawings. Dimensions noted take	
Modular Building Addition for: SHEPERD CHURCH OF THE NAZARENE 425 S. HAMILTON ROAD 425 S. HAMILTON ROAD 425 S. HAMILTON ROAD GAHANNA, OH 43230	
DRAWING DATE	
REVIEW SET         11 JUL 23           X         Permit/Bid Set         08 AUG 23	
REVISIONS	
SPECIFICATIONS	;
SP100 OF . SHEETS	

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## **GENERAL NOTES**

- 1. 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.
- 2. COORDINATE ALL WORK WITH OTHER TRADES TO ELIMINATE CONFLICTS ON THE JOB.
- 3. PERFORM ALL WORK IN A NEAT AND PROFESSIONAL MANNER, AND SUPPLY ALL NEW EQUIPMENT AND ACCESSORIES.
- 4. SUBMIT SHOP DRAWINGS AND OPERATION MANUALS OF ALL EQUIPMENT AND ACCESSORIES FOR OWNER APPROVAL, PRIOR TO STARTING WORK.
- 5. REFER TO SUPPLEMENTAL DRAWINGS FOR PREFABRICATED MODULAR CLASSROOM DETAILS INCLUDING POWER, LIGHTING & UTILITY CONNECTIONS.

#### ELECTRICAL:

- 6. 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.
- 7. ALL ELECTRICAL PANELS ARE TO BE BASED ON SQUARE "D" OR EQUAL BY G.E., EATON OR SIEMENS WITH BOLT-ON TYPE CIRCUIT BREAKERS.
- 8. 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.
- 9. 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).
- 10. 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.
- 11. ALL WIRING IS TO BE COLOR-CODED AS FOLLOWS:

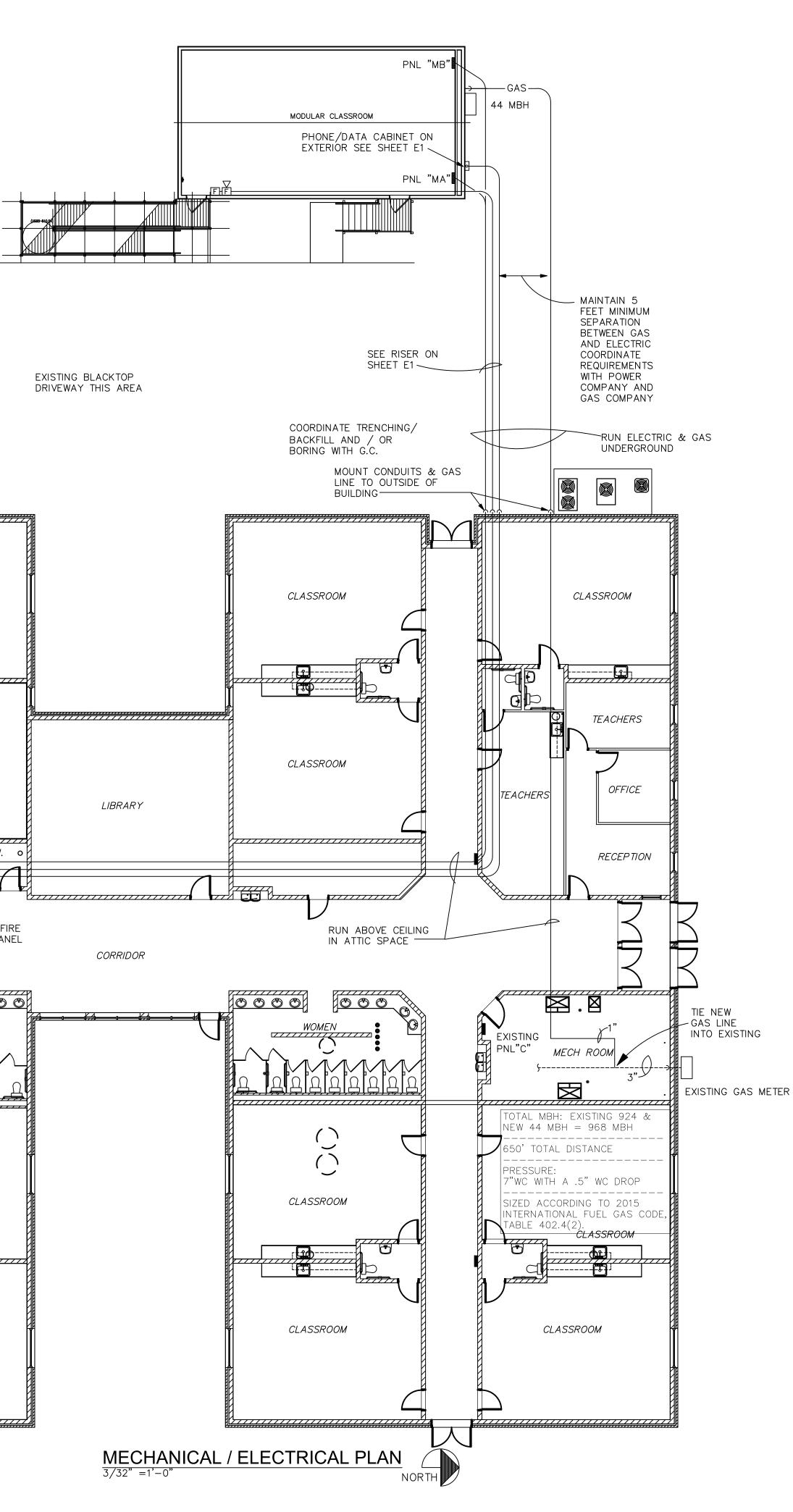
120/208 VOLT SYSTEM: NEUTRAL – WHITE
PHASE A OR L1 – BLACK
PHASE B OR L2 - RED
PHASE C OR L3 – BLUE
GROUND – GREEN

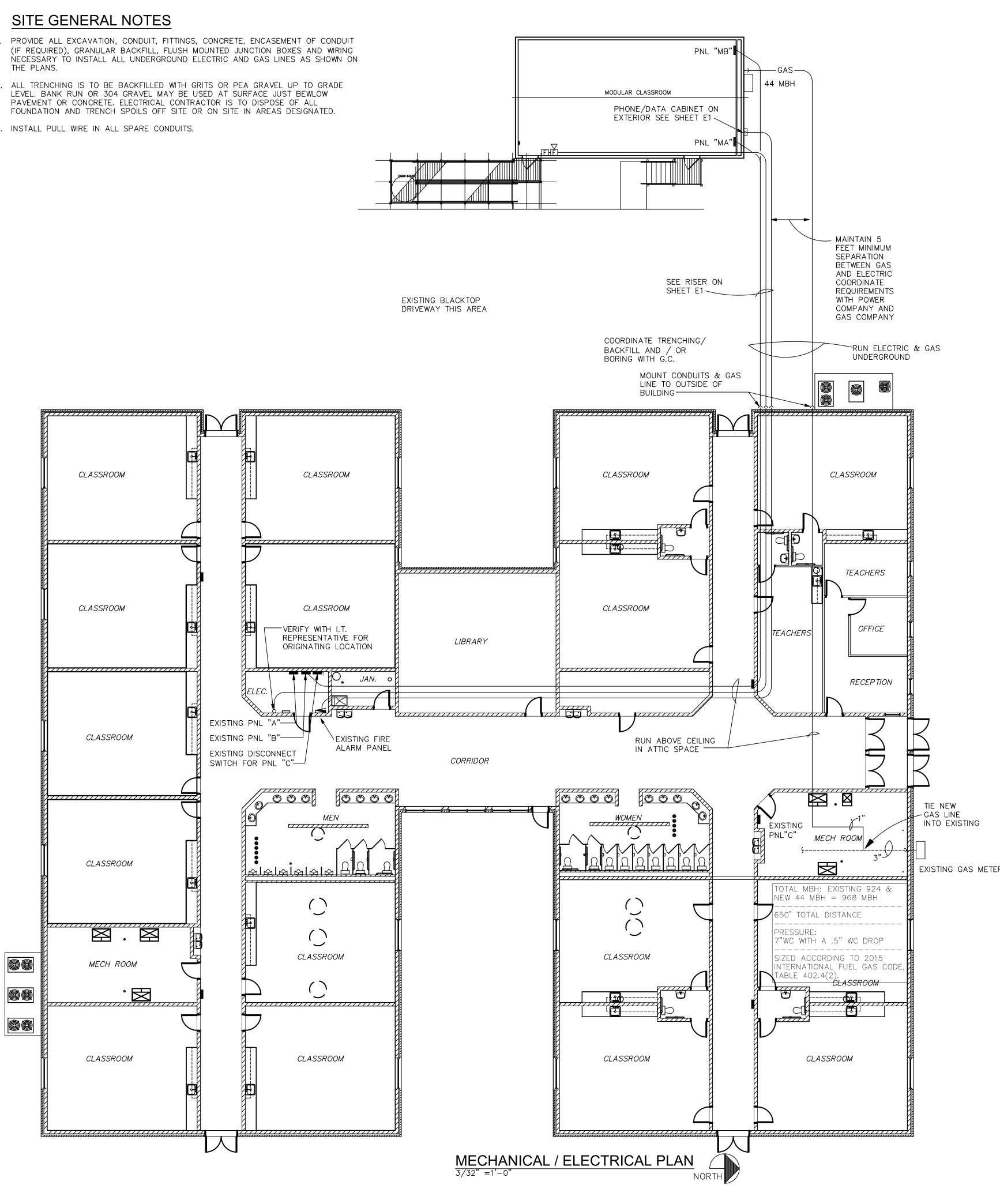
- 12. PROVIDE FLEXIBLE CONDUIT FOR ALL VIBRATING EQUIPMENT, NOT TO EXCEED 3 FT. IN LENGTH.
- 13. MINIMIZE EXPOSED CONDUIT BY CONCEALING IN WALLS AS MUCH AS POSSIBLE.
- 14. BALANCE ALL PANELS WITHIN 10% OF EACH PHASE LEG.
- 15. PROVIDE LABELS AND TAGS FOR ALL PANELS AND SWITCHGEAR EQUIPMENT. PROVIDE TYPED DIRECTORY OF ALL CIRCUITS LABELED BY ROOM NUMBER OR NAME.
- 16. CIRCUIT ALL EMERGENCY LIGHT FIXTURES, EXIT SIGNS AND NIGHTLIGHTS, (NL) TO LOCAL CIRCUIT AHEAD OF ANY SWITCHING.
- 17. REFER TO MECHANICAL PLAN FOR LOCATION OF MECHANICAL EQUIPMENT. FIELD VERIFY EXACT LOCATIONS.
- 18. 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.
- 19. 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.
- 20. 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.
- 21. LIGHTING SYSTEMS SHALL BE TESTED TO ENSURE PROPER CALIBRATION, ADJUSTMENT, PROGRAMING, AND OPERATION.

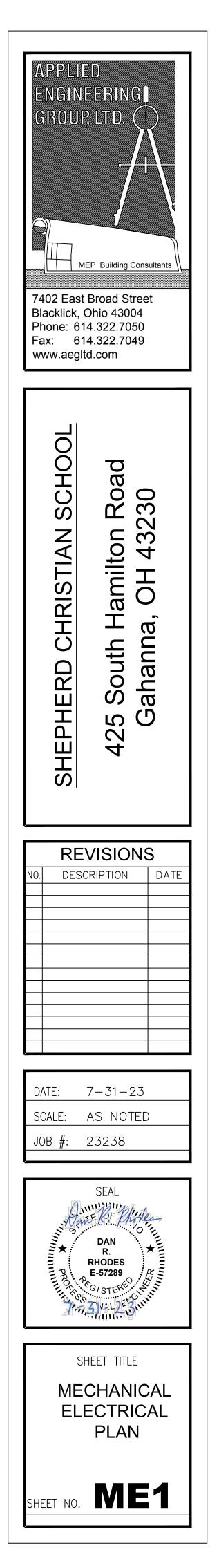
#### MECHANICAL – GAS PIPING:

- 22. ABOVE GROUND: GAS LINES SHALL BE BLACK STEEL, SCHEDULE 40, ASTM A-53/53M. FITTINGS SHALL BE AS FOLLOWS:
- 23. 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.
- 24. ABOVE 14" W.C.: FITTINGS SHALL BE STEEL WITH WELDED JOINTS.
- 25. 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.
- 26. 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, MTH 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.
- 27. 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.
- 28. BELOW GROUND: OTHER SUITABLE CODE APPROVED PIPING WITH ADEQUATE PROTECTION IS ACCEPTABLE WITH WRITTEN APPROVAL FROM OWNER.
- 29. 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.
- 30. 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.
- 31. GAS PIPING EXPOSED ON ROOF AND GAS PIPING EXPOSED OUTSIDE MUST BE PAINTED WITH RUST-INHIBITING PAINT. COORDINATE COLOR(S) WITH G.C.
- 32. 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.
- 33. CONTACT AND COORDINATE GAS SERVICE AND METER REQUIREMENTS WITH THE LOCAL GAS COMPANY AND THE BUILDING'S MANAGER PRIOR TO BID.

- 1. 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.
- 2. 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.
- 3. INSTALL PULL WIRE IN ALL SPARE CONDUITS.

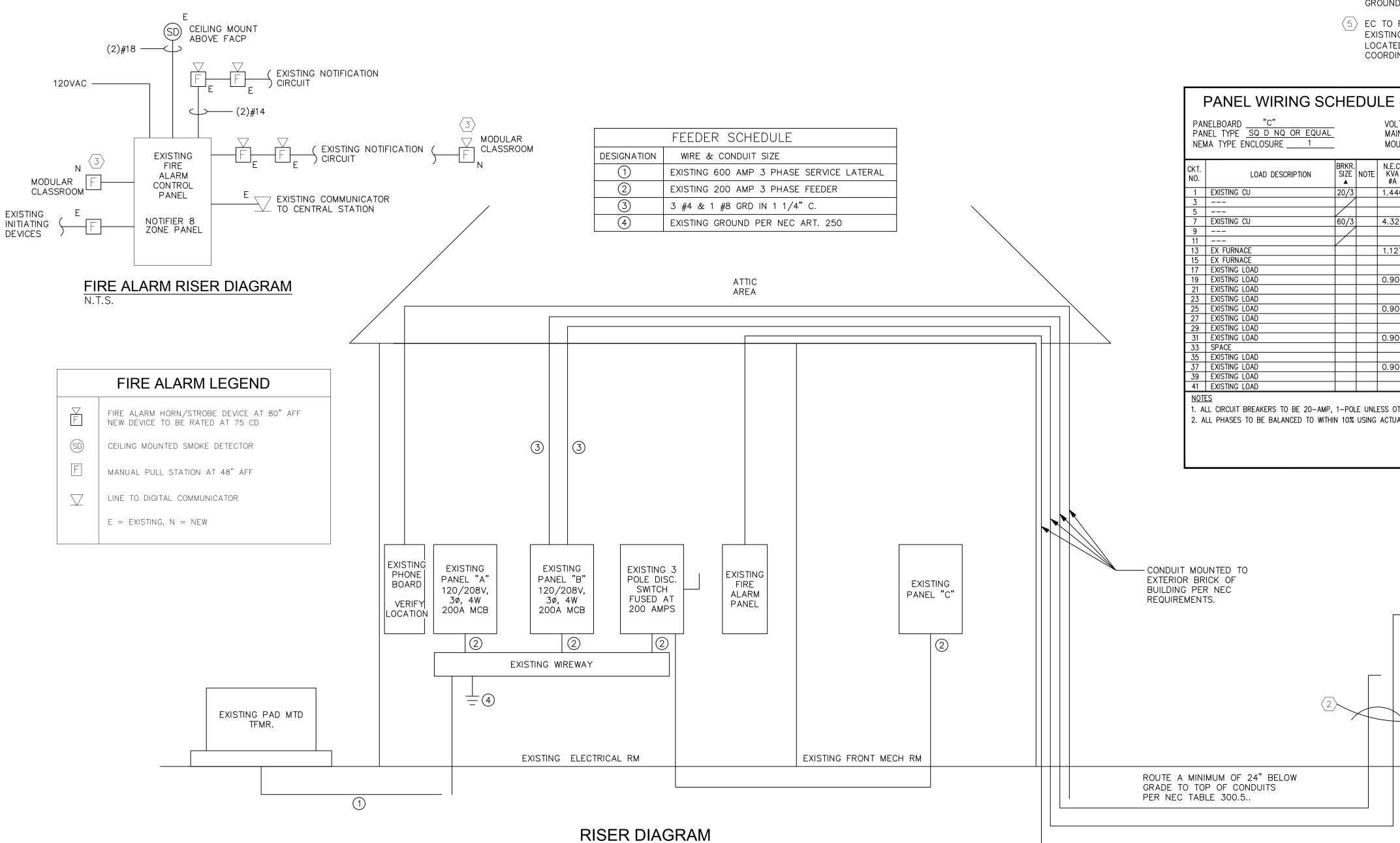






PAN	NELBOARD <u>"A"</u> NEL TYPE <u>G.E. A SERIES</u> NA TYPE ENCLOSURE <u>1</u>			MAINS	GE <u>120</u> <u>2007</u> TING <u>SU</u>	A MCB	_	BUS R	<u>3</u> V ATING NS	200A			AIC RATING <u>EXISTING</u>	
CKT. NO.	LOAD DESCRIPTION	BRKR. SIZE	NOTE	N.E.C. KVA ØA	N.E.C. KVA ØB	N.E.C. KVA ØC	PHASE	N.E.C. KVA ØA	N.E.C. KVA ØB	N.E.C. KVA ØC	NOTE	▲		CK NC
1	EXISTING CU	60/3		4.320			A	4.320				60/3	EXISTING CU	2
3			1		4.320		B		4.320					4
5						4.320	C			4.320				6
7	EX FURNACE 5 B			1.127			A	1.127					EX FURNACE 5 A	8
9	EX WATER COOLER				0.360		В		0.360				EX WATER COOLER	1
11	EX SPACE					-	C			0.300			EX REMOTE ANN.	1
13	EX RECEPTS			0.900			A	0.720					EX FIRE ALARM	1
15	EX RECEPTS				0.900		В		0.900				EX RECEPTS	1
17	EX SNOWMELT					0.360	C			0.900			EX RECEPTS	1
19	EX RECEPTS			0.900			A	0.900					EX LIGHTS	2
21	EX LIGHTS				0.900		В		0.900				EX RECEPTS	2
23	EX RECEPTS					0.900	С			0.900			EX LIGHTS	2
25	EX CORRIDOR LIGHTS (E)			0.900			A	0.900					EX LIGHTS	2
27	EX LIGHTING				0.900		В		0.900				EX LIGHTS	2
29	EX R.R. LIGHTING					0.900	С			0.900			EX RECEPTS	3
31	SPACE			_			A	_					SPARE	3
33	SPARE				_		В		-				SPARE	3
35	EX NIGHT LTS (E)					0.900	С			1.872		30/2	EX SNOWMELT	3
37	SPACE			_			A	1.872						3
39	EX SNOWMELT	30/2			1.872		В		1.872			30/2	EX SNOWMELT	4
41						1.872	С			1.872				4
NOTI	—		<b>F</b> 1000				P	ANELI	OAD	SUMM	IARY		BREAKER NOTES:	
	LL CIRCUIT BREAKERS TO BE 20-AM							N.F.C	CONNECT	ED TOTAL	S		LO – HANDLE LOCK–OFF DEVIDE	
2. A	LL PHASES TO BE BALANCED TO WIT	HIN 10%	USING	ACTUAL	LUAD IOT	ALS.			ØA	17.9		KVA	HACR – HEATING, A/C & REFRIGERATIO	
													TC - RUN CIRCUIT THROUGH TIME CLO	
									øВ	18.5		KVA		
									øС	20.3	16	KVA		
									TOTAL	56.8	~~	KVA		

TOTAL 157.8 AMPS



N.T.S.

PANE	ELBOARD"B" EL TYPE _ <u>G.E. A SERIES</u> A TYPE ENCLOSURE1			VOLTA MAINS MOUNT	GE120 2007 TING _SUI	/208 MCB RFACE	-	PHASE BUS R OPTIO	ATING	200A			AIC RATING <u>EXISTING</u>	
кт. 10.	LOAD DESCRIPTION	BRKR. SIZE	NOTE	N.E.C. KVA ØA	N.E.C. KVA ØB	N.E.C. KVA ØC	PHASE	N.E.C. KVA ØA	N.E.C. KVA ØB	N.E.C. KVA ØC	NOTE	BRKR. SIZE ▲	LOAD DESCRIPTION	CKT. NO.
1	EXISTING CU	60/3		4.320			A	2.250				30/2	EX WATER HEATER	2
0			1		4.320		В		2.250			$\geq$		4
0						4.320	C			1.127			EX FURNACE 4B	6
	EX WATER COOLER			0.360			A	0.360					EX HOT WATER CIRC PUMP	8
	EX POINT USE WTR HTR	30/2			2.250		В		1.127				EX FURNACE 4 A	10
						2.250	C			0.900			EX RECEPTS	12
	EX RECEPTS			0.900			A	0.900					EX RECEPTS	14
	EX RECEPTS				0.900		В		0.900				EX RECEPTS	16
	EX RECEPTS					0.900	С			0.900			EX RECEPTS	18
	EX RECEPTS			0.900			A	0.900					EX RECEPTS	20
	EX RECEPTS				0.900		В		0.900				EX RECEPTS	22
	EX RECEPTS					0.900	С			0.900			EX LIGHTING	24
	EX RECEPTS			0.900			A	0.900					EX LIGHTING	26
	EX LIGHTING				0.900		В		0.900				EX LIGHTING	28
	EX LIGHTING					0.900	С			0.900			EX LIBRARY LTS	30
	EX CORRIDOR LTS (E)			0.900			A	0.900					EX LIGHTING TIME CLOCK	32
	EX CORRIDOR LTS (E)				0.900		В		0.900				EX LIGHTING	34
	EX LIGHTING					0.900	С			0.900			EX LIGHTING	36
	EX LIGHTING			0.900			A	0.900					EX NIGHT LTS (E)	38
	PANEL MA	70/2			2.500		В		5.250			70/2	PANEL MB	40
41						1.900	С			6.250		$\square$		42
2. ALI 3. EC NI	CIRCUIT BREAKERS TO BE 20-AMP PHASES TO BE BALANCED TO WITH TO MOVE EXISTING RECEPT CKT 39 CHTLIGHT CKT 40 TO SPARE CKT 38. & & MB.	IIN 10% TO SPA	USING ARE CK	ACTUAL I T 19 AND	LOAD TOT	ALS. (ISTING	P/		CONNECT ØA ØB	ED TOTAL 16.2 24.8	S 90 97	KVA KVA	<u>BREAKER NOTES</u> : LO – HANDLE LOCK-OFF DEVIDE HACR – HEATING, A/C & REFRIGER/ TC – RUN CIRCUIT THROUGH TIME C	
IVI <i>F</i>	Λ Ο LIVID.								ØC	23.9		KVA		
									TOTAL	65.1	34	KVA		

ELECTRIC LOAD SUMMARY IN ACCORDANCE WITH NEC 2017										
DESCRIPTION	CONN. KVA	DEMAND FACTOR	DEMAND KVA							
PEAK DEMMAND IN LAST 12 MONTHS (AUGUST 2022) PANEL MA PANEL MB TOTALS	57.1 4.4 11.5 73.0	1.25 1.0 1.0 PLUS 25% OF LARGEST MOTO	71.4 4.4 DR 13.1 88.9							
	OF PHASE	= MINIMUM SERV AMPERAGE N. SERVICE, REUSE E								

## CODED NOTES

4.32

0.90

0.90

 $\stackrel{(1)}{\longrightarrow}$  panels ma and MB are provided with the modular classroom. These panels are rated at 100 AMPS MLO EACH.

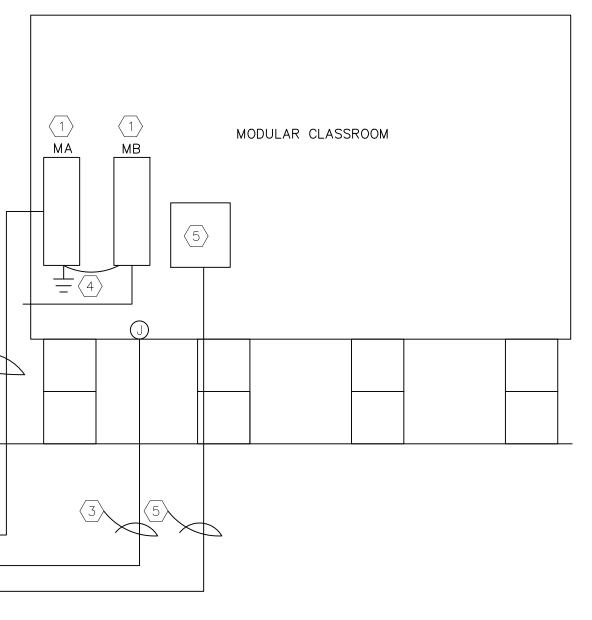
 $\langle 2 \rangle$  RUN NEW FEEDERS FROM EXISTING PANEL 'B' TO NEW PANELS MA & MB AS SHOWN.

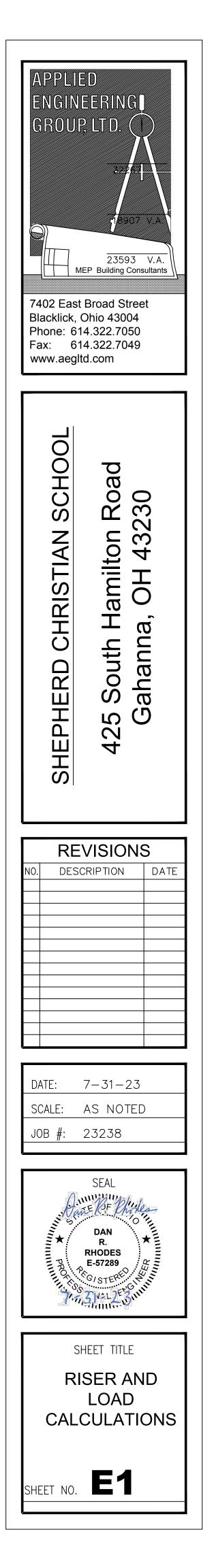
 $\langle 3 \rangle$  RUN 4 #12 FOR NEW HORN/STROBE AND 2 #18 FOR PULL STATION IN MODULAR CLASSROOM. BOTH SETS OF WIRING TO BE IN 1" CONDUIT FROM EXISTING FACP TO MODULAR CLASSROOM. SEE F.A. RISER DIAGRAM AT LEFT. ADD ZONE TO PANEL IF PANEL IS EXPANDABLE, OTHERWISE SHARE ZONE FOR NEW PULL STATION WITH EXISTING.

(4) 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.

 $\langle 5 \rangle$  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 3R 18" X 18" CABINET ON EXTERIOR OF MODULAR CLASSROOM. COORDINATE WITH I.T. REPRESENTATIVE,

JLE (3-PHASE)										
VOLTAGE <u>120/208</u>		_	PHASE					AIC RATING <u>EXISTING</u>		
MAINS <u>200A MLO</u> MOUNTING SURFACE			_ BUS RATING <u>200A</u> _ OPTIONS <u></u>					NOTE		
MOUN	IING <u>50</u>	RFACE	_	0P 110	vs				NOTE	_
N.E.C.	N.E.C.	N.E.C.		N.E.C.	N.E.C.	N.E.C.		BRKR.		
KVA ØA	KVA ØB	KVA ØC	PHASE	KVA ØA	KVA ØB	KVA ØC		SIZE	LOAD DESCRIPTION	CKT.
1.440			Α	2.880				40/3	EXISTING CU	2
	1.440		В		2.880					4
		1.440	С			2.880				6
4.320			A	_					SPARE	8
	4.320		В		1.127				EX FURNACE	10
		4.320	С			1.127			EX FURNACE	12
1.127			A	1.127					EX FURNACE	14
	1.127		В		_				SPACE	16
		0.900	С			0.900			EXISTING LOAD	18
0.900			A	0.900					EXISTING LOAD	20
	0.900		В		0.900				EXISTING LOAD	22
		0.900	С			0.900			EXISTING LOAD	24
0.900			A	0.900					EXISTING LOAD	26
	0.900		В		0.900				EXISTING LOAD	28
		0.900	С			0.900			EXISTING LOAD	30
0.900			A	0.900					EXISTING LOAD	32
	-		В		0.900				EXISTING LOAD	34
		0.900	С			0.900			EXISTING LOAD	36
0.900			A	0.900					EXISTING LOAD	38
	0.900		В		0.900				EXISTING LOAD	40
		0.900	С			0.900			EXISTING LOAD	42
			PANEL LOAD SUMMARY				BREAKER NOTES:			
LESS OTHERWISE NOTED.		N.E.C. CONNECTED TOTALS				S	LO – HANDLE LOCK-OFF DEVIDE			
G ACTUAL LOAD TOTALS.					KVA	HACR – HEATING, A/C & REFRIGERATIO				
		øB					KVA	TC - RUN CIRCUIT THROUGH TIME CLOO	CK	
						KVA				
					TOTAL			KVA		
			TOTAL	150.	4	AMPS				







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

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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

Leaders and First Choice in Innovative Church Design and Building



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

 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.

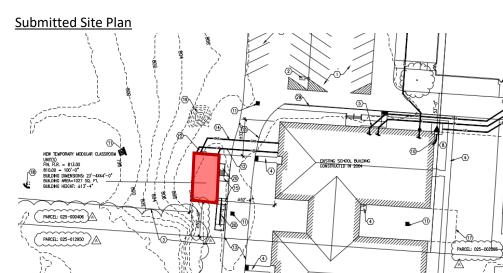


#### Staff Comments

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



(i7)



Respectfully Submitted By: Maddie Capka Planner

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