

**ZONING DIVISION** 200 S. Hamilton Road

Gahanna, Ohio 43230 614-342-4025

zoning@gahanna.gov www.gahanna.gov

## DESIGN REVIEW/CERTIFICATE OF APPROPRIATENESS APPLICATION

|                          | roperty Addr                               | ess:<br>, Gahanna, OH 4                                     | 13230                    | Project Name/Business Name: Shepherd Church of the Nazarene   |  |  |  |  |
|--------------------------|--|---|--------------------------|---|--|--|--|--|
| Parcel #:                | 5-000406-0                                 |   | Zoning:<br>(see Map) RID | Acreage: 35.7 Total acres (26.12 parc   |  |  |  |  |
|                          |  |   | PLAN SPE                 | ECIFICATIONS  |  |  |  |  |
| Applicatio<br>(check all | on Type:<br>that apply)                    | ■ Site Plan   | Landscaping              | ■ Building Design   | Demolition Other   |  |  |  |
|                          | escription:                                |   |                          |   |  |  |  |  |
| Building i               | is to be tem                               | e wide, pre-man<br>nporary (no more<br>sion project for the | than 3 years) to facilit | sroom unit on the w<br>tate the growing sch   | est side of the existing school building.<br>ool population while the school decides on    |  |  |  |
|                          |  |   | APPLICANT                | INFORMATION   |  |  |  |  |
| Applicant<br>(Primary (  |  | eff Hutcheson   |                          | Applicant Address 3351 McDowell I   | :<br>Rd./PO Box 370, Grove City, OH 43210  |  |  |  |
| Applicant jhutcheso      |  | ghtgroup.com  |                          | Applicant Phone: 614-875-1689   |  |  |  |  |
| Business I               | MACK                                       | inight & Hosterm  | an Architects, Inc.      |   |  |  |  |  |
|                          |  |   |                          | IAL CONTACTS  |  |  |  |  |
|                          |  |   | ease list all applicable |   | ondence*<br>ntact Information (phone/email)  |  |  |  |
|                          |  | Name(s)   | D.                       |   |  |  |  |  |
| Mike Flu                 | uhart (princ                               | ipal of the schoo   | N)                       | 614-471-0859 (e   | erdchristian.school<br>ext. 223)   |  |  |  |
| . ,                      |  | e: (if different from  If the Nazarene                      | m Applicant)             | Property Owner C  | Contact Information (phone no./email): e info above)                                       |  |  |  |
| APPLICAN                 | NT SIGNATU                                 | JRE BELOW CON   | FIRMS THE SUBMISSIO      | ON REQUIREMENTS   | HAVE BEEN COMPLETED  |  |  |  |
| project as               | hat the info<br>s described<br>t Signature | Jeffrey T. H  | Il be completed in acco  | ordance with the coll<br>Jeffrey T. Hutcheson<br>cheson@mcknightgroup.com,<br>Hoosterman Architects, Inc.",<br>cheson | e best of my knowledge, and that the nditions and terms of that approval 123  Date: 8/2/23 |  |  |  |
| Дррпсан                  | t Signature.                               | ·   |                          |   | NFORMATION ON NEXT PAGE  |  |  |  |
| INTERNAL<br>USE          | Zoning File                                | No. <u>DR-03</u>  | REC<br>DAT               | eived: <u>LAW</u><br>e: 8-22-23   | PAID: <u>200.00</u> DATE: <u>822233</u> Updated Apr 2022                                   |  |  |  |



#### DESIGN REVIEW/CERTIFICATE OF APPROPRIATENESS - SUBMISSION REQUIREMENTS

#### TO BE COMPLETED/SUBMITTED BY APPLICANT:

- 1. Review Gahanna Code Section 1197 (visit www.municode.com)
- 2. Materials List (see page 3) does not apply to demolition applicants
- 3. Authorization Consent Form Complete & Notarized (see page 4)
- 4. Application & all supporting documents submitted in digital format
- 5. Application & all supporting documents submitted in hardcopy format
- 6. Application fee paid (in accordance with the Building & Zoning Fee Schedule)
- 7. Color rendering(s) of the project in plan/perspective/or elevation
- 8. **One (1) copy** 24"x36" or 11"x17" prints of the plans

#### Building Construction, Exterior Remodeling, and Additions (Including Parking Lots and Landscaping)

- 1. <u>SITE PLAN</u> that includes the following: (include: scale, north arrow, & address) if applicable
- All property & street pavement lines
- Property size
- Proposed ingress/egress to the site, including onsite parking area(s), parking stalls, adjacent streets
- Location of all existing and proposed buildings on the site
- Location of all existing & proposed exterior lighting standards
- Breakdown of parking spaces required & spaces provided (see Gahanna Code Section 1163)
- Provide lot coverage breakdown of building & paved surface areas
- 2. LANDSCAPE PLAN (including plant list)
- Existing landscaping that will be retained & proposed landscaping shall be differentiated & shown on the plan. The type, size, number, & spacing of all plantings & other landscape features must be illustrated
- Designation of required buffer screens (if any)
- Interior landscaping breakdown for paved surface (see Gahanna Code Section 1163)
- 3. **ELEVATIONS** from all sides
- Fenestration, doorways, & all other projecting & receding elements of the building exterior
- 4. <u>LIGHTING STANDARD DRAWING</u> that includes the following: (exterior only)
- All sizing specifications
- Information on lighting intensity (no. of watts, iso foot candle diagram)
- Materials, colors, & manufacturer's cut sheet
- 5. OPTIONAL REQUIREMENTS AT THE DISCRETION OF PLANNING COMMISSION:
  - Scale model
  - Section profiles
  - Perspective drawing

#### Demolition or Removal of Existing Structures Requirements

- 1. ONE OR MORE OF THE FOLLOWING CONDITIONS MUST EXIST:
  - That the building contains no features of special architecture or is not a historical building or culturally significant or is not consistent in design & style with other structures within the district
  - That there exists no viable economic use for the building in its current state or as it might be restored or that there is not a feasible and prudent alternative to demolition and that the approval of the demolition is necessary for the preservation and enjoyment of substantial property rights
  - That the applicant has a definite plan for redevelopment of the site which meets the standards of this Code and the proposed redevelopment will not materially affect adversely the health or safety of persons residing or working in the district where the demolition will occur and will not be materially detrimental to the public welfare or injurious to property or improvements in such neighborhood



| MATERIAL LIST  NOT REQUIRED FOR DEMOLITION |               |            |              |  |  |  |  |  |
|--|---------------|------------|--------------|--|--|--|--|--|
| ITEM                                       | MATERIAL TYPE | COLOR NAME | COLOR NUMBER |  |  |  |  |  |
| Facade                                     |               |            |              |  |  |  |  |  |
| Facade                                     |               |            |              |  |  |  |  |  |
| Facade                                     |               |            |              |  |  |  |  |  |
| Awnings                                    |               |            |              |  |  |  |  |  |
| Lighting                                   |               |            |              |  |  |  |  |  |
| Roofing                                    |               |            |              |  |  |  |  |  |
| Trim                                       |               |            |              |  |  |  |  |  |
| Other (please specify)                     |               |            |              |  |  |  |  |  |
| Other (please specify)                     |               |            |              |  |  |  |  |  |
| Other (please specify)                     |               |            |              |  |  |  |  |  |

#### **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                                       |  |
|-----------------------|--|--|
| OWNER                 | As the property owner/authorized owner's representative of the subject property listed on this ap  | polication, hereby authorize   |
|                       | the applicant/representative to act in all matters pertaining to the processing and approval of th |  |
|                       | modifying the project. I agree to be bound by all terms and agreements made by the applicant/      | •  |
| PROPERTY              | Michael T Fhyhart  |  |
|                       | (property ewner name prints)   |  |
| _                     |  | 8/9/23   |
|                       | (property owner signature)   | (date)   |
| Subscrik              | bed and sworn to before me on this $9$ day of $August$ , $2023$ .                                  |  |
| State of              | f OMO County of Franklin   |  |
|                       | Sidly Mill mills   | Stramp Sydney J. McGrath   |
| Notary                | Public Signature: UWW U 91/00/1  | Notary Public, State of Ohio   |
| . •                   |  | My Commission Expires 07-26-2027   |
|                       | AGREEMENT TO COMPLY AS APPROVED As the applicant/representative/owner of the                       | ne subject property listed on  |
|                       | this application, I hereby agree that the project will be completed as approved with any condition | 1  |
| •                     | and any proposed changes to the approval shall be submitted for review and approval to City s      | •  |
| 2                     | AUTHORIZATION TO VISIT THE PROPERTY I hereby authorize City representatives to                     |  |
| R                     | notice (if applicable) on the subject property as described.                                       | The second of th |
|                       | APPLICATION SUBMISSION CERTIFICATION I hereby certify that the information on the                  | is application is complete   |
| ni/Property Owner/Rep | and accurate to the best of my knowledge.  | a application is complete  |
| <b>.</b>              |  |  |
| ê                     | JERFREY T. HOTCHESON   | ·  |
|                       | (applicant/epresentative/property owner name printed)  |  |
| 8                     | - pulled thather   | 8/17/23  |
| 2                     | (gopligant representative/property owner signature)  | (date)   |
|                       |  |  |
|                       | 1 aula   |  |
| Subscri               | ibed and sworn to before me on this $1779$ day of $August$ , 2023 ARIAL'S                          |  |
| State o               | of ONTO County of Flankin  | Aumor  |
| Notary                | Public Signature: Andrea J. Sipton   | Stamp of SANDREA J. TIPTON<br>Notary Public, State of Ohio<br>My Commission Expires <u>4-24-28</u>   |

andrea of Sipron







# SHEPHERD CHURCH OF THE NAZARENE

# GAHANNA, OHIO 43230



## 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
- 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
- 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 CEILINGS, COVE CEILINGS, ETC.
- 16. HANDRAILS, GUARDRAILS, BALUSTERS, AND NEWEL POSTS SHALL COMPLY WITH CURRENT 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
- 19. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EMERGENCY EGRESS FOR ALL OCCUPIED AREAS OF THE BUILDING DURING CONSTRUCTION.
- 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

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
- 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
- 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.

425 S. HAMILTON ROAD

- 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
- 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

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
- 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 SURFACES AND PREPARE SURFACES FOR NEW FINISHES AS SPECIFIED AND/OR INDICATED.
- 4. FILE 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.

- 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 TRACK, FURNITURE, WINDOW COVERING TRACK, SCREENS, AND OTHER SIMILAR ITEMS - INCLUDING ITEMS SPECIFIED N.I.C. OR BY OWNER.
- 2. ALL WOOD BLOCKING TO BE 2X4 (OR 1X6) MINIMUM, FIRE RETARDANT TREATED LUMBER.



| A 1555 | INDEX OF 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   |
| C1.1   | STORMWATER AND SEDIMENT CONTROL DETAILS   |
| 01.2   | 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  |

| SU      | PPLEMENTAL 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                                    |
|         |  |
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| 9010000 |  |
| 5       | TOTAL SUPPLEMENTAL SHEETS INCLUDING TITLE SHEETS |

#### OWNER PARTICIPATION SCHEDULE

WITH THE ARCHITECT PRIOR TO INSTALLATION.

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

#### 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 OUNDATIONS 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:

- FILED WELDING OF TIE DOWN ANCHORS

2. POURED CONCRETE FOOTINGS (ANCHORS, SPECIMEN TESTING, ETC.)

#### **ALTERNATES**

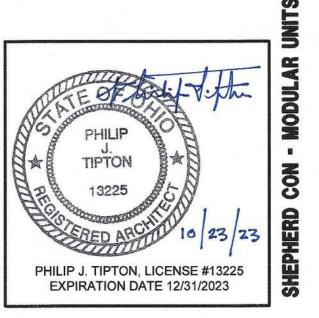
ALTERNATE 1: USE OF PRE-MANUFACTURED, TEMPORARY ALUMINUM STAIRS AND RAMP WITH RAILINGS. TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS INSTEAD OF CONSTRUCTED WOOD STAIRS AND RAMP AS INDICATED ON THE DRAWINGS.



A SITE AERIAL IMAGE SCALE: N.T.S.

| -         | DATE      | STATUS                   |
|-----------|-----------|--------------------------|
| $\forall$ | 11 JUL 23 | PRELIMINARY - DD#1 SET   |
|           | 01 AUG 23 | 100% REVIEW / PERMIT SET |

| MARK | DATE      | SHEETS/COMMENTS            |
|------|-----------|----------------------------|
| Α    | 20 OCT 23 | CORRECTION LETTER COMMENTS |
|      |           |                            |
|      |           |                            |



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



# SHEPHERD CHURCH OF THE NAZARENE

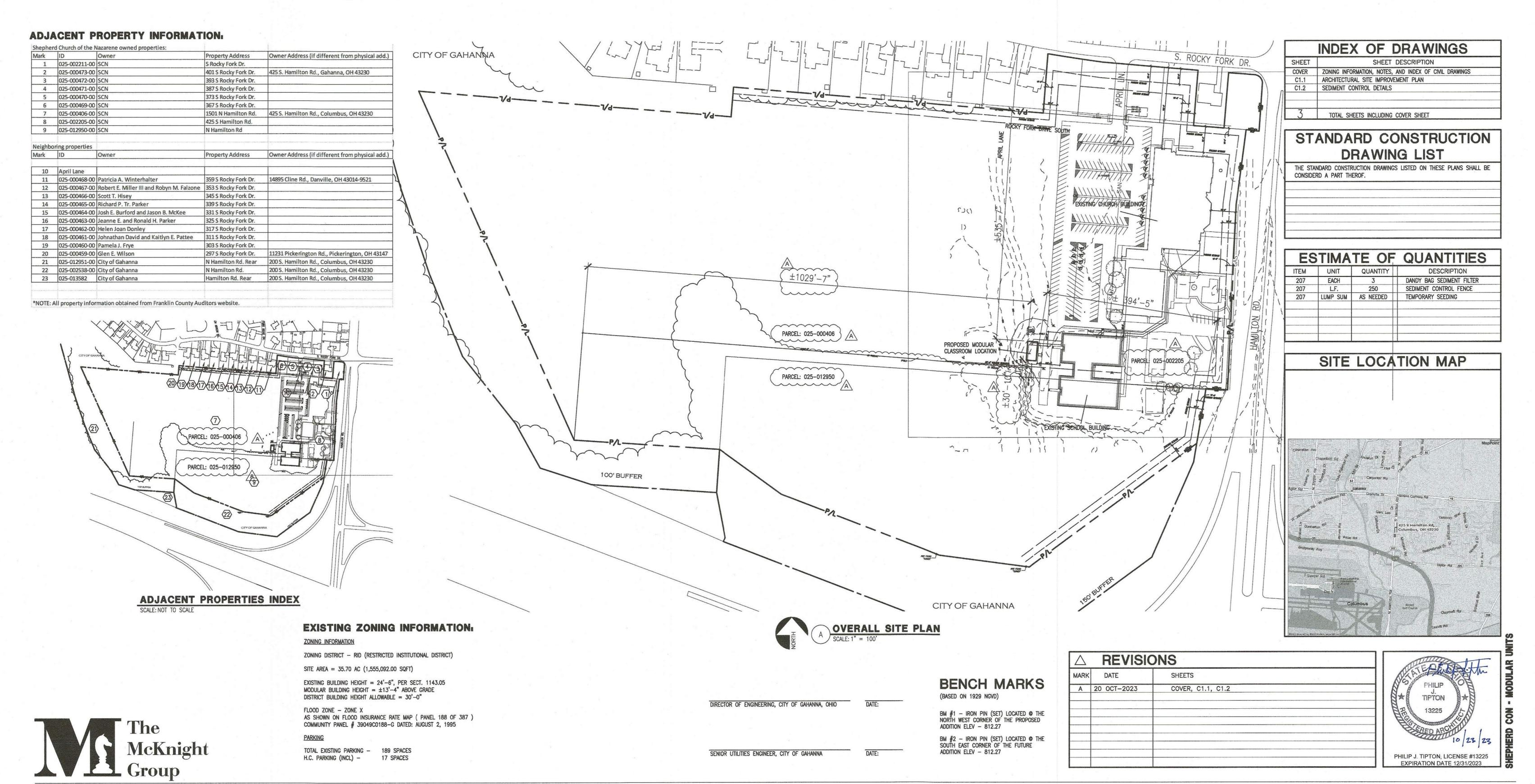


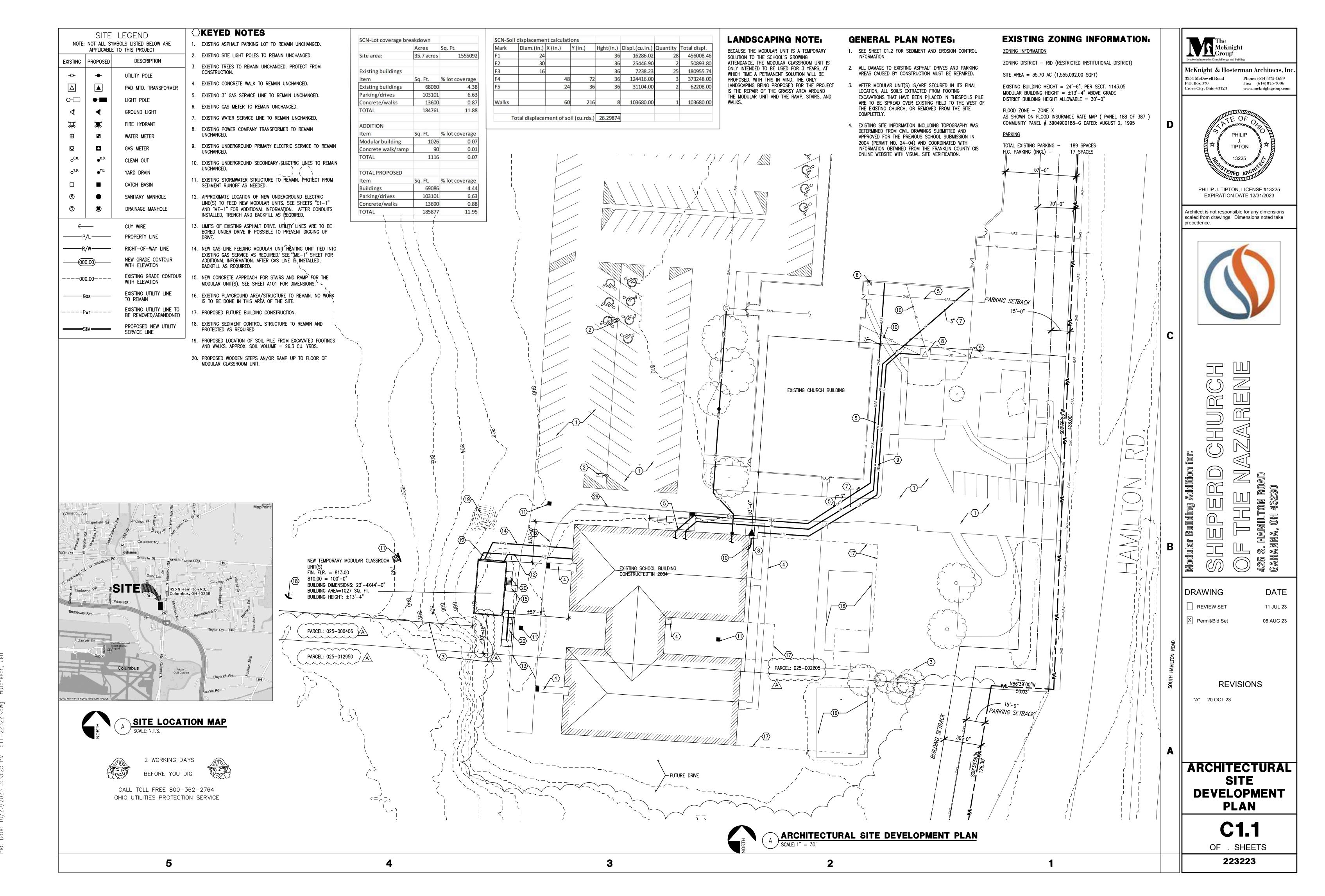
425 S. HAMILTON ROAD

GAHANNA, OHIO 43230

# Zoning: City of Gahanna

Franklin County, Ohio





#### DRAINAGE SCHEDULE STRUCTURE TOP OF CASTING | INVERT ELEVATION DESCRIPTION 805.40 (E) CATCH BASIN 799.00 (E) END WALL 796.80± (E) HEAD WALL 809.80 806.42 (E) CATCH BASIN (E) CATCH BASIN 810.70 807.68

#### **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 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.

#### NEW UTILITIES SUPPORTING THE MODULAR UNIT (ELECTRIC AND GAS) ARE TO BE PLACED UNDERGROUND IN A MANNER TO NOT CONFLICT WITH OR INTERFERE WITH EXISTING STORMWATER DRAINAGE SYSTEM.

#### **○KEYED NOTES**

- 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
- 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

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.

SPECIFIED FOR SAID PURPOSE.

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

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.

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

#### 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.

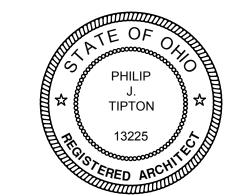
9. ALTHOUGH NOT ANTICIPATED FOR THIS PROJECT, ADDITIONAL OR ALTERNATE EROSION AND SEDIMENTATION CONTROL PRACTICES, NOT INDICATED ON THIS PLAN, MAY BE REQUIRED DUE TO UNFORESEEN ENVIRONMENTAL AND/OR CHANGES IN DRAINAGE PATTERNS CAUSED BY EARTH MOVING ACTIVITIES. FRANKLIN SOIL AND WATER CONSERVATION DISTRICT SHALL CONTACT THE SITE CONTACT INDICATED AT THE PRE-CONSTRUCTION MEETING, TO ADDRESS

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

THE AMENDMENTS TO THE EROSION AND SEDIMENTATION CONTROL PLAN.

The McKnight Group

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

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

precedence.



 $\mathbb{Z}$ 

DATE

11 JUL 23

08 AUG 23

DRAWING

REVIEW SET

X Permit/Bid Set

"A" 20 OCT 23

DISTURBED SOILS SHALL BE STABILIZED AS QUICK AS PRACTI-CABLE WITH TEMPORARY VEGETATION AND / OR MULCHING TO TEMPORARY MULCH IS TO BE APPLIED AT THE RATE OF 2-3

REVEGETATION

SODDING (ALTERNATE)

BALES OF STRAW PER 1000 SQ. FT.

- \* SPREAD 4 TO 6 INCHES OF TOPSOIL. \* FERTILIZE ACCORDING TO SOIL TEST (OR APPLY 10 LB. / 1000 SQ. FT. OF 20-10-10 OR 10-10-10 FERTILIZER)
- \* INSTALL SOD IN ACCORDANCE WITH SUPPLIERS' RECOMMENDATIONS. \* WATERING REQUIREMENTS SHALL BE IN ACCORDANCE WITH
- SUPPLIERS' RECOMMENDATIONS AND/OR UNTIL LAWN IS WELL ESTABLISHED.

PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT.

#### SEEDING AND MULCHING

WELL ESTABLISHED.

- \* RESPREAD 4 TO 6 INCHES OF EXISTING TOPSOIL. \* FERTILIZE ACCORDING TO SOIL TEST (OR APPLY 10 LB. /
- 1000 SQ. FT. OF 20-10-10 OR 10-10-10 FERTILIZER) \* SEED WITH AN APPROPRIATE MIX FOR THE SITE. \* RAKE LIGHTLY TO COVER SEED WITH 1/4" OF SOIL. ROLL
- \* MULCH WITH STRAW (2-3 BALES PER 1000 SQ. FT.) FROM
- MARCH 15 TO AUGUST 31. \* ANCHOR MULCH BY PUNCHING 2 INCHES INTO THE SOIL WITH A DULL, WEIGHTED DISK OR BY USING NETTING OR OTHER
- MEASURES ON STEEP SLOPES AND WINDY AREAS. \* WATERING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SUPPLIERS' RECOMMENDATIONS AND/OR UNTIL LAWN IS

# FLAP FOLDS OVER TO ENCLOSE GRATE GRATE --VELCRO CLOSURE SILT PROTECTION BAG - LIFTING STRAPS ALLOW EASY

MOVEMENT OF UNIT WITH GRATE

SILT PROTECTION BAG-SECTION A-A

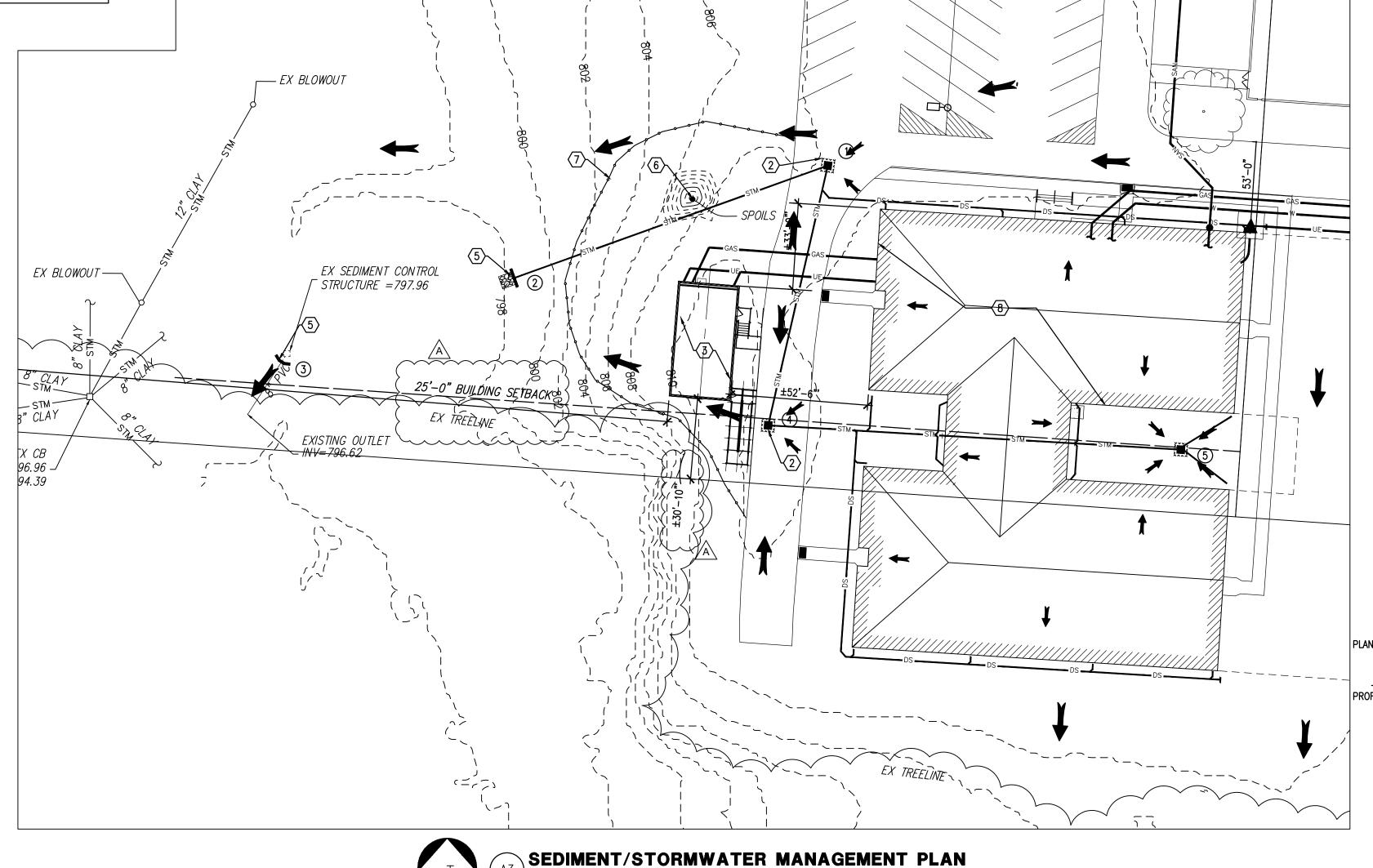
EROSION CONTROL DETAIL

STORMWATER **AND SEDIMENT CONTROL DETAILS** 

**REVISIONS** 

**C1.2** 

OF . SHEETS



PRESERVING EXISTING VEGETATION \* WHENEVER POSSIBLE, PRESERVE EXISTING TREES, SHRUBS, AND OTHER VEGETATION. \* TO PREVENT ROOT DAMAGE, DO NOT GRADE, PLACE SOIL PILES, OR PARK VEHICLES NEAR TREES MARKED FOR PRESERVATION. SILT FENCE & STRAW BALES

\* PUT UP BEFORE ANY OTHER WORK IS DONE. \* INSTALL ON DOWNSLOPE SIDE(S) OF SITE WITH ENDS EXTENDED UP SIDESLOPES A SHORT DISTÂNCE.

\* PLACE PARALLEL TO THE CONTOUR OF THE LAND TO ALLOW WATER TO POND BEHIND FENCE.

\* ENTRENCH 6 INCHES DEEP. \* STRAW BALES SHALL BE USED ONLY IN MAJOR DITCH LINES WITH THE APPROVAL OF THE CITY ENGINEER. ALL OTHER LOCATIONS

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

\* INSPECT AND REPAIR ONCE A WEEK AND AFTER EVERY 1/2 INCH RAIN. REMOVE SEDIMENT IF DEPOSITS REACH HALF THE FENCE OR STRAW BALE HEIGHT. \* MAINTAIN UNTIL A LAWN IS ESTABLISHED.

#### SOIL PILES

- \* LOCATED AWAY FROM ANY DOWNSLOPE STREET, DRIVEWAY, STREAM, LAKE, WETLAND, DITCH OR DRAINAGEWAY.
- \* TEMPORARY SEED SUCH AS ANNUAL RYE IS RECOMMENDED FOR TOPSOIL PILES. \* SURROUND WITH STRAW BALES OR SILT FENCE.

FENCE FOR DAMAGE OR SEDIMENT BUILDUP.

#### SEDIMENT CLEANUP

\* BY THE END OF EACH WORK DAY, SWEEP OR SCRAPE UP SOIL TRACKED ONTO THE ROAD AND IN THE GUTTERS. \* BY THE END OF THE NEXT WORK DAY AFTER A STORM, CLEAN UP SOIL WASHED OFF-SITE, AND CHECK STRAW BALES AND SILT

IF CONSTRUCTION IS COMPLETED AFTER AUGUST 31, SEEDING OR SODDING MAY BE DELAYED. APPLY MULCH AND TEMPORARY SEED (SUCH AS RYE OR WINTER WHEAT) FROM SEPTEMBER 1 TO MARCH 15. STRAW BALES OR SILT FENCES MUST BE MAIN-TAINED UNTIL FINAL SEEDING IS COMPLETED IN SPRING, MARCH 15 TO MAY 31.

CONSTRUCTION OF A FILTER BARRIER

POINTS A SHOULD BE HIGHER THAN POINT B

PROPER PLACEMENT OF A FILTER BARRIER IN A DRAINAGE WAY

SEISMIC IMPORTANCE FACTOR = 1.0 SEISMIC OCCUPANCY CATEGORY = II MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION AT 0.2 SECOND PERIOD, SS = 11.6%G MAXIMUM CONSIDERED EARTHQUAKE GROUND MOTION AT 1.0 SECOND PERIOD, S1 = 6.1%G

SITE CLASS = B SDS = 0.124G SD1 = 0.098G

\SEISMIC DESIGN PARAMETERS

SEISMIC DESIGN CATEGORY = B BUILDING SYSTEM:

INTERNAL PRESSURE COEFFICIENT

BEARING WALL SYSTEMS SEISMIC RESISTING: LIGHT FRAMED WOOD WALLS WITH STRUCTURAL WOOD PANELS. K. RESPONSE MODIFICATION FACTOR, R: 6.5

= +/-0.18

L. DESIGN BASE SHEAR:

#### **BUILDING DESIGN NOTES:**

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

0.018W

ORIGINAL DESIGN FIRM: SPECIALIZED STRUCTURES INC. 2400 SPRINGFIELD CHURCH ROAD WILLACOOCHE, GA 31650

ORIGINAL THIRD PARTY APPROVAL AND INSPECTION AGENCY: RADCO 5801 BENJAMIN CENTER DRIVE

|    |                  |                   | TAMPA, FL 33634                       |
|----|------------------|-------------------|---------------------------------------|
| В. |                  | ORIGINAL DESIGN   | REQUIRED DESIGN                       |
|    | FLOOR LIVE LOAD: | 50.0 PSF          | 50.0 PSF                              |
|    | ROOF LIVE LOAD:  | 20.0 PSF          | 20.0 PSF                              |
|    | ROOF SNOW LOAD:  |                   |                                       |
|    | Pg               | 30.0 PSF          | 20.0 PSF                              |
|    | Pf               | 23.1 PSF          | 22.0 PSF                              |
|    | Ce               | 1.0               | 1.0                                   |
|    | Is               | 1.0               | 1.1                                   |
|    | Ct               | 1.1               | 1.1                                   |
|    | WIND LOAD:       |                   |                                       |
|    | WIND SPEED       | 110 MPH (SERVICE) | 93 MPH (SERVICE)<br>120 MPH (STRENGTI |
|    | lw               | 1.0               | N/A                                   |
|    | EXPOSURE         | С                 | С                                     |
|    | GCpi             | 0.18              | 0.18                                  |
|    | BASE PRESSURE    | 28.1 PSF          | 17.5 PSF                              |
|    | SEISMIC LOAD:    |                   |                                       |
|    | le               | 1.0               | 1.25                                  |
|    | SITE CLASS       | D                 | D                                     |
|    | Ss               | .537              | .116                                  |
|    | S1               | .285              | .061                                  |
|    | Sds              | .49               | .124                                  |
|    | Sd1              | .34               | .098                                  |
|    | R                | 6.5               | 6.5                                   |
|    | Cs               | .08               | .018                                  |
|    |                  |                   |                                       |

BASED UPON THE DRAWINGS PROVIDED DATED 11-13-15 BY SPECIALIZED STRUCTURES INC. AND SINGED AND SEALED BY JAMES E. BRADLEY WITH A PENNSYLVANIA SEAL NUMBER OF 0192214E, IT IS THE OPINION OF DERWACTER & ASSOCIATES, LLC THAT THE BUILDING DESIGN EXCEEDS THE REQUIREMENTS OF THE CURRENT OHIO BUILDING CODE. THIS EVALUATIONS IS BASED ON A REVIEW OF THE STATED DRAWINGS ONLY. DERWACTER & ASSOCIATES, LLC HAS NOT MADE ANY INSPECTIONS OF THE EXISTING BUILDING OR REVIEWED ANY MODIFICATIONS (IF ANY) TO THE ORIGINAL DESIGN.

|      | SCHEDULE OF SPECIA   | AL INS | PECTIO          | NS   |   |                                      |  |
|------|--|--------|-----------------|------|---|--------------------------------------|--|
|      | LTENA  | REQ'   | INSPECTION TYPE |      | DEFEDENCED CTANDADD                           | ОВС                                  |  |
|      | ITEM   | D      | CONT.           | PER. | REFERENCED STANDARD                           | REFERENCE                            |  |
| MASO | DNRY CONSTRUCTION  | Х      |                 |      |   |                                      |  |
|      | SPECIAL INSPECTION TESTING PER THE QUALITY ASSURANCE REQUIREMENTS OF TNS 402/ACI   |        |                 | Х    |   |                                      |  |
|      | REINFORCEMENT AND CONNECTORS   |        |                 | Х    |   |                                      |  |
|      | GROUTING   |        |                 | Х    |   |                                      |  |
|      | COLD WEATHER PROTECTION  |        |                 | Х    |   |                                      |  |
| CON  | CRETE CONSTRUCTION   | Х      |                 |      |   |                                      |  |
|      | INSPECT ANCHORS CAST IN CONCRETE   |        |                 | Х    | ACI 318: 17.8.2                               |                                      |  |
|      | VERIFY USE OF REQUIRED DESIGN MIX  |        |                 | х    | ACI 318: CHAPTER 19 AND 26.4.3, 26.4.4        | 1904.1,<br>1904.2,<br>1908.2, 1908.3 |  |
|      | PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF CONCRETE |        | Х               |      | ASTM C 172, ASTM C 31, ACI 318: 26.4.5, 26.12 | 1908.10                              |  |
|      | VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES  |        |                 | Х    | ACI 318: 26.4.7 - 26.4.9                      | 1908.9                               |  |
|      | INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED  |        |                 | х    | ACI 318: 26.10.1                              |                                      |  |
| SOIL | 5  | Х      |                 |      |   |                                      |  |
|      | VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY   |        |                 | Х    |   |                                      |  |
|      | VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL   |        |                 | Х    |   |                                      |  |
|      | PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS   |        |                 | Х    |   |                                      |  |
|      | VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.                                    |        | Х               |      |   |                                      |  |
|      | PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.  |        |                 | Х    |   |                                      |  |

#### REINFORCING FOR CONCRETE:

#11 BARS AND SMALLER

REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60 OR ASTM A706, UNLESS NOTED OTHERWISE. 1. ALL WELDED REINFORCING BARS SHALL CONFORM TO ASTM A706.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 (SHEETS FORM, NOT ROLLED) MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE A. UNFORMED SURFACE IN CONTACT WITH THE GROUND: B. FORMED SURFACES EXPOSED TO EARTH OR WEATHER:

#6 BARS AND LARGER #5 BARS AND SMALLER 1 1/2 IN. C. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: BEAMS, GIRDERS, AND COLUMNS 1 1/2 IN. SLABS, WALLS, AND JOISTS

#14 AND #18 BARS 1 1/2 IN. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE.

| _,   | 0. 2.020 0 122 22 |                    |      |                |                    |
|------|-------------------|--------------------|------|----------------|--------------------|
|      | CLASS B SPLICE    | COMPRESSION SPLICE |      | CLASS B SPLICE | COMPRESSION SPLICE |
| BAR  | LAP LENGTH        | LAP LENGTH         | BAR  | LAP LENGTH     | LAP LENGTH         |
| SIZE | (INCHES)          | (INCHES)           | SIZE | (INCHES)       | (INCHES)           |
| #3   | 22                | 12                 | #8   | 72             | 30                 |
| #4   | 29                | 15                 | #9   | 81             | 34                 |
| #5   | 36                | 19                 | #10  | 89             | 38                 |
| #6   | 43                | 23                 | #11  | 98             | 42                 |
| #7   | 63                | 27                 |      |                |                    |
|      |                   |                    |      |                |                    |

COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS. UNLESS NOTED OTHERWISE BASE PLATES, ANCHOR RODS, SUPPORT ANGLES, ETC., BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" OF CONCRETE.

#### REINFORCED MASONRY:

REINFORCED MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, I'm, OF 1500 PSI. MASONRY UNITS SHALL BE NORMAL WEIGHT BLOCK CONFORMING TO ASTM C90, AND SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2150 PSI. MORTAR SHALL CONFORM TO ASTM C270, TYPE S. MINIMUM GROUT COMPRESSIVE STRENGTH SHALL EQUAL OR EXCEED fm, BUT NOT BE LESS THAN 2000

REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE HOT DIPPED GALVANIZED, LADDER TYPE FORMED FROM 9 GAUGE COLD - DRAWN STEEL WIRE COMPLYING WITH ASTM A82. JOINT REINFORCING SHALL BE SPACED AT 16" O.C. VERTICALLY IN ALL MASONRY WALLS AND PIERS, U.N.O. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF VERTICAL CONTROL JOINTS. HORIZONTAL BOND BEAM AND LINTEL REINFORCING SHALL BE CONTINUOUS ACROSS VERTICAL CONTROL JOINTS. JOINT REINFORCING SHALL BE STOPPED EACH SIDE OF VERTICAL CONTROL JOINTS.

ALL REINFORCED CELLS, ALL CELLS BELOW GRADE AND ALL CELLS BELOW FINISH FLOOR SHALL BE 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 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

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

GROUTING OF MASONRY BEAMS OVER OPENINGS SHALL BE DONE IN ONE CONTINUOUS OPERATION. ALL BOLTS, ANCHORS, ETC., INSERTED IN THE WALLS, SHALL BE GROUTED SOLID INTO POSITION. CELLS AT ANCHOR LOCATIONS SHALL BE GROUTED TO MINIMUM 6" ABOVE AND 6" BELOW THE CENTERLINE OF

| MASONRY REINFORCING LAP SPLICE LENGTH (IN.) |                              |           |     |                        |     |     |  |  |
|---|------------------------------|-----------|-----|------------------------|-----|-----|--|--|
|   | NUMBER OF REINFORCING LAYERS |           |     |                        |     |     |  |  |
| BAR   |                              | ONE LAYER |     | TWO LAYERS             |     |     |  |  |
| SIZE  | NOMINAL WALL THICKNESS       |           |     | NOMINAL WALL THICKNESS |     |     |  |  |
|   | 8"                           | 10"       | 12" | 8"                     | 10" | 12" |  |  |
| #4  | 25                           | 25        | 25  | 31                     | 31  | 31  |  |  |
| #5  | 31                           | 31        | 31  | 48                     | 48  | 48  |  |  |
| #6  | 57                           | 52        | 52  | 98                     | 98  | 98  |  |  |
| #7  | 79                           | 61        | 61  | 177                    | 121 | 121 |  |  |
| #8  | 112                          | 86        | 74  | -                      | 149 | 149 |  |  |

#### **GENERAL NOTES:**

1. ANY CHANGES MADE TO THE DESIGN IDENTIFIED ON THESE DRAWINGS AND/OR ASSOCIATED SPECIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO MAKING ANY MODIFICATIONS TO THE PROJECT. ANY LIABILITY AS A RESULT OF DESIGN MODIFICATIONS, AS WELL AS ANY COSTS ASSOCIATED WITH SUCH MODIFICATIONS, MADE WITHOUT THE WRITTEN APPROVAL OF ENGINEER OF RECORD SHALL BECOME THE RESPONSIBILITY OF THE

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:**

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

ELECTRONIC VERSIONS OF THESE DOCUMENTS ARE THE PROPERTY OF DERWACTER & ASSOCIATES, LLC. ELECTRONIC OR CAD FILES WILL NOT BE MADE AVAILABLE FOR CONSTRUCTION PURPOSES.

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

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.

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

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.

UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE AND CURED.

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

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Frove City, Ohio 43123 www.mcknightgroup.com DERWACTER 5275 Milford Dr. Zanesville, OH 43701



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DRAWING REVIEW SET

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Hamilton f Ina, oh 4323

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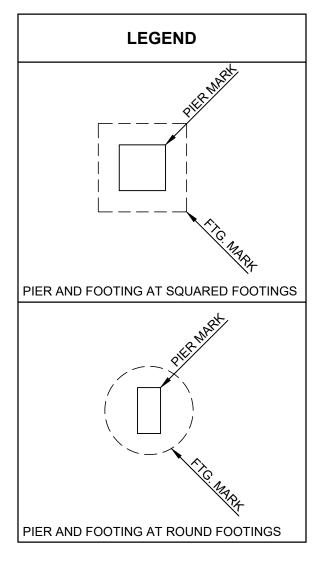
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OF . SHEETS

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**NOTES** 



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

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

\* SEE DETAIL **\$5.1-08** FOR PLAN LAYOUT AND REINFORCING PLACEMENT.

#### **KEYED NOTES** cont.

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

#### **KEYED NOTES**

#### CMU SUPPORT PIER ON CONCRETE FOOTING, SEE SCHEDULES.

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

#### **FOUNDATION PLAN NOTES**

- A SEE SHEET **S0.1** FOR GENERAL NOTES.
- ALL ELEVATIONS ARE RELATIVE TO A FINISH FIRST FLOOR ELEVATION OF 100'-0"
- C COORDINATE DOOR OPENINGS AND STOOP LOCATIONS WITH ARCH. DRAWINGS. D SEE DETAIL **\$5.1-01** FOR TYPICAL REINFORCING DETAILING.
- LOCATION OF HOLD DOWN ANCHORS AT OVERTURNING, SLIDING, AND UPLIFT E LOCATIONS TO BE COORDINATED WITH FINAL MODULAR MANUFACTURER'S

MATTHEW D

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**FOUNDATION** 

**PLAN** 

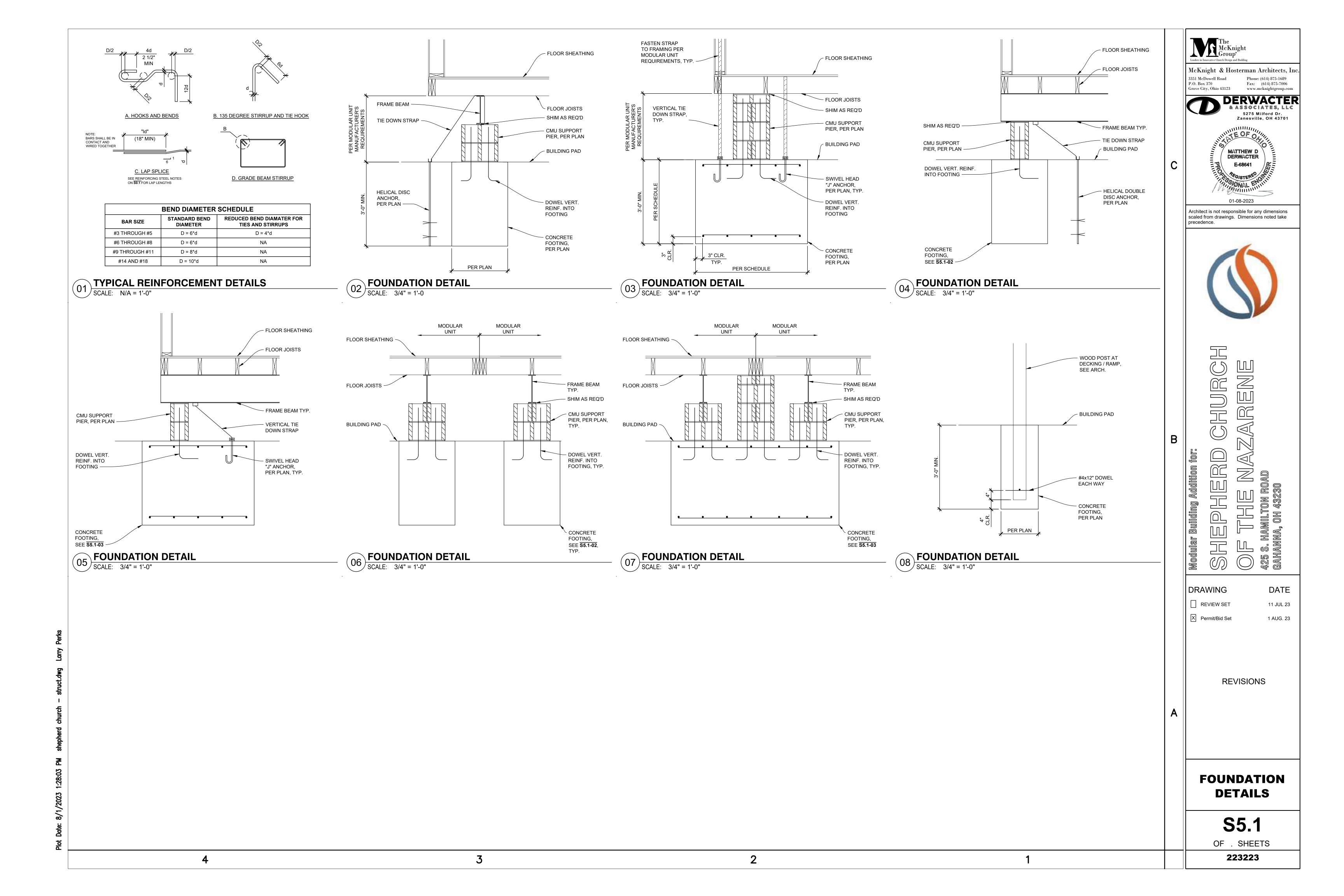
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OF . SHEETS

1'-8" 2'-4" 1'-8" 2'-4" 8'-4" 3'-4"

**FOUNDATION PLAN** 

3



USE GROUP/CONSTRUCTION TYPE

PREVIOUS USE GROUP(S): B (ADULT CLASSROOM) PROPOSED USE GROUP(S): E

EXISTING CONSTRUCTION TYPE: V-B

FIRE AREA TABULATIONS

BUILDING FOOTPRINT = 1,026 SQ. FT. (937 SQ. FT. INTERIOR)

ALLOWABLE AREA PER TABLE 506.2 FOR "E"/V-B -NON SPRINKLED = 9,500 SQ. FT.

ACTUAL BUILDING AREA IS LESS THAN ALLOWABLE: 1.026 SQ. FT. < 9.500 SQ. FT.(PASSES)

HEIGHT TABULATIONS

ALLOWABLE HEIGHT PER TABLE 504.3 OBC = 40'-0"ALLOWABLE STORIES PER TABLE 504.4 OBC (E/V-B) = 1 STORY ACTUAL MAX. HEIGHT =  $\pm 30'-0"$  @ MODUL; AR UNIT RIDGE ACTUAL NO. OF STORIES = ONE (1) STORY ABOVE GRADE

OCCUPANT LOAD

CALCULATED OCCUPANT LOAD PER TABLE 1004.1.2 OBC = MAXIMUM 46 OCCUPANTS TOTAL EGRESS PROVIDED = 340 TOTAL EGRESS CAPACITY (2-36" DOORS)

> FIRE RESISTANCE RATINGS (SEE PLAN FOR DETAILS)

FIRE RATED PARTITIONS ARE NOT REQUIRED FOR THIS BUILDING. EXTERIOR WALL NEAREST TO EXISTING SCHOOL BUILDING IS IN EXCESS OF 40'-0" (±52'-6") SO THIS TEMPORARY STRUCTURE DOES NOT REQUIRE FIRE RATED EXTERIOR WALLS. EXISTING SCHOOL BUILDING IS OF TYPE III-B, NS CONSTRUCTION.

SPRINKLER REQUIREMENTS

A FIRE SUPPRESSION SYSTEM IS NOT REQUIRED IN THIS BUILDING OR IN NEARBY SCHOOL BUILDING..

## **APPLICABLE CODES**

**DESIGN LOADS** 

2017 OHIO BUILDING CODE (OBC)

2017 OHIO CHAPTER 11 AND ICC/ANSI A117.1-2009 ACCESSIBILITY CODE

2015 INTERNATIONAL FUEL GAS CODE

2017 OBC CHAPTER 27 (ELECTRIC) AND NEC 2017

2017 OHIO MECHANICAL CODE (MMC)

2017 OHIO PLUMBING CODE (MPC)

2015 INTERNATIONAL ENERGY CONSERVATION CODE

2015 OHIO ENERGY CODE (MENC)

## 2017 OHIO FIRE CODE (IFC) W/ 2019 AMMENDMENTS

- 1. ASSUMED SOIL BEARING PRESSURE = 1,500 PSF.
- 2. SEE STRUCTURAL DRAWINGS FOR FOUNDATION DESIGN FOR SOIL CONDITIONS.
- 3. SEE STRUCTURAL DRAWINGS FOR CONVENTIONAL FRAMING DESIGN LOADS.

#### DESIGN LOADS:

1. SOIL BEARING 1,500 PSF. SOIL BEARING VALUE TO BE CONFIRMED ON SITE BY THE GENERAL CONTRACTOR (SEE STRUCTURAL DRAWINGS FOR ADDITIONAL LOAD INFORMATION)

2. ROOF LOADS: A. SNOW 20 PSF B. WIND 93 MPH (SERVICE)

3. LIVE LOADS: A. EDUCATIONAL

1. CLASSROOMS 40 PSF B. EXTERIOR STAIRWAYS & EXITWAYS 100 PSF

2. EXITWAYS 100 PSF

 LANDINGS a. 100 PSF LIVE b. 300 LB. CONCENTRATED LOAD

120 MPH (STRENGTH)

C. GUARDS/KNEEWALLS IMPACT LOAD 200 LB.

4. WIND LOAD: BASIC WIND SPEED = 90 MPH-EXPOSURE "C", RISK

5. EARTHQUAKE DESIGN DATA: (SEE STRUCTURAL DRAWINGS SHEET S0.1) (SPECIAL NOTE: SEISMIC DESIGN DOES NOT GOVERN-GOVERNING FACTOR IS WIND).

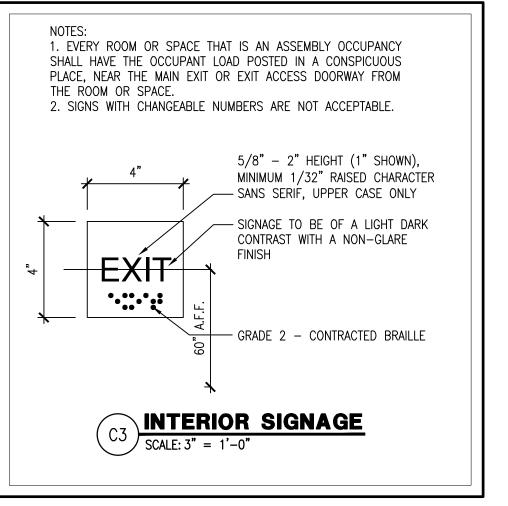
### PLUMBING CALCULATION - 2017 OPC

2017 OPC TABLE 403.1: MIN. NUMBER OF REQ. PLUMBING FIXTURES

|  | WATER (                 | CLOSETS  | LAVATORIES        | DRINKING     | other             |  |
|--|-------------------------|----------|-------------------|--------------|-------------------|--|
|  | MALE FEMALE             |          | LAVATORIES        | FOUNTAINS    | OTHER .           |  |
| DUCATION USE (E) (INCL. EXISTING) 887 EXISTING + 46 PROPOSED = 433 OCC.) | 1 PER 50                | 1 PER 50 | 1 PER 50          | 1 PER<br>100 | 1 SERVICE<br>SINK |  |
| 33 OCCUPANT LOAD (E) EQUIRED NUMBER OF FIXTURES:                         | 4.34 4.34               |          | 8.66<br>(4.34 EA) | 4.33<br>(5)  |                   |  |
| OTAL REQUIRED FIXTURES:  | *4.34(5)                | 4.34 (5) | 8.66<br>9 (5 EA)  | 4.33 (5)     | 1                 |  |
| OTAL PROVIDE FIXTURES IN FACILITY:                                       | 8 TOILETS<br>/6 URINALS | 14       | 23<br>(MIN. 5 EA) | **6          | 1                 |  |

NOTE: ALL PLUMBING FIXTURES ARE EXISTING AND ARE LOCATED IN THE EXIST. SCHOOL BUILDING LESS THAN 150'-0" FROM MODULAR UNITS. \* NOTE: OPC 405.3.5 ALLOWS 50% OF REQUIRED TOILETS TO BE SUBSTITUTED BY URINALS.

\*\* THREE (E) HI-LOW ELECTRIC WATER COOLERS EQUALS 6 DRINKING FOUNTAINS.



#### **MODULAR UNIT NOTES**

FOLLOWING ARE NOTES ABOUT THE USED HACC, 24'X44', MANUFACTURED MODULAR UNIT (FOR ADDITIONAL INFORMATION, REFER TO SUPPLEMENTAL INFORMATION AT THE END OF THE SET):

DETACHABLE HITCHES

NYLON IMPREGNATED BOTTOM BOARD 4. 2X8 FLOOR JOISTS @ 16" O.C., W/5/8" T&G PLYWOOD DECKING, COVERED W/ 1/8" VINYL COMPOSITION TILE

5. 2X6 WOOD EXTERIOR STUDS

6. 2X4 WOOD INTERIOR STUDS

7. 1/2" VINYL COVERED GYPSUM WALLBOARD

8. GROUND SNOW LOAD: 30 PSF

9. TRUSS TYPE: BOX

10. TRUSS SPACING: 24" O.C. 11. FR-DECK

12. 45 MIL BLACK EPDM 13. CEILING IS 1/2" PRE-FINISHED C-SPRAY WITH ROSETTES,

14. CEILING HEIGHT: 8'-0"

15. MAITLINE RIDGEBEAM 16. TWO (2) 100A ELECTRIC PANELS

17. (16) SURFACE MOUNTED FLOURESCENT LIGHTS 18. (2) BLACK PORCH LIGHTS

19. (2) COMBO LIGHTED EXIT SIGNS/EMERGENCY LIGHTS WITH

BATTERY BACKUP 20. (6) EMPTY 2X4 JUNCTION BOXS W/ 3/4" CONDUIT STUBS (ALL ALARM DEVICES AND WIRING BY OTHERS). WIRE TO BE 12-2

ROMEX. 21. (2) OCCUPANCY SENSORS

22.  $1 - 3 \frac{1}{2}$  TON WALL MOUNT HEATING UNIT W/ GAS HEAT

23. PROGRAMMABLE THERMOSTAT 24. FIBERGLASS SUPPLY AND RETURN DUCTS

25. 2X4 PLENUM WALL 26. HARDI-PANEL SIDING OVER HOUSE WRAP

27. HARDI PANEL MANSARD 28. (2) 36X80 STEEL DOOR W/10 VB 20 GA DOOR AND 18 GA

44'-0" EXISTING UNIT SIZE

FRAME. STANDARD CLOSER AND PANIC HARDWARE W/ LEVER HANDLE INCLUDED

29. R-30C FLOOR INSULATION 30. R-19 WALL INSULATION 31. R-38 ROOF INSULATION

#### 1. OUTRIGGER FRAME DESIGN

A. SEE THIS SHEET AND "S" SHEETS FOR BUILDING DESIGN LOADS. ALSO REFER TO SUPPLEMENTAL MANUFACTURERS SET FOR ADDITIONAL STRUCTURAL INFORMATION.

> B. ALL EXTERIOR WOOD FRAMING IS TO BE PRESSURE TREATED LUMBER AND RATED FOR EXTERIOR USE OR GROUND CONTACT DEPENDING ON

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.

#### **OPLAN KEYED NOTES**

NOTE: NOT ALL NOTES MAY APPLY TO THIS SHEET.

1. 1 1/2" DIA. STL. PIPE HANDRAIL, MTD. W/ CNTR. @2'-10" A.F.F..

2. TOP OF GUARD RAIL TO BE 42" ABOVE FINISH FLOOR. 3. 4" CONCRETE SLAB-ON-GRADE POURED FOR APPROACHES TO STAIRS

AND RAMP AS SHOWN.

4. 4X4 PRESSURE TREATED (PRT) WOOD POST, TYPICAL (SEE STRUCTURAL DRAWINGS FOR ANCHORING DETAILS).

HC ENTRANCE RAMP CREATED WITH PRT WOOD AT A MAX. 1:12 SLOPE UP TO MODULAR UNIT ENTRY. 6. WOOD PLATFORM AT THE TOP OF STAIRS AND RAMP CONSTRUCTED

USING 2X PRT FRAMING AND 2X6 PRT DECKING (SEE STRUCTURAL DRAWINGS AND SHEET A701).

INFORMATION FOR THIS SECTION OR ELEVATION IS LOCATED IN THE SUPPLEMENTAL DRAWINGS INCLUDED WITH THIS SUBMISSION.

8. LOCATION OF BRAILLE EXIT SIGNAGE (SEE DETAIL C3/A101). 9. CAST-IN-PLACE SLOPED CONCRETE APPROACH RAMP AT A MAX. 1:12

10. HVAC UNIT SUPPLIED WITH MODULAR. INDIVIDUAL TRADES TO MAKE CONNECTIONS TO THE UNIT FROM THE NEARBY EXISTING SCHOOL BUILDING FOR GAS LINE, ELECTRIC, AND FIRE ALARM. SEE MECHANICAL SHEETS AND SUPPLEMENTAL MODULAR UNIT DRAWINGS FOR MORE INFORMATION.

11. PROPOSED GAS LINE LOCATION FOR UNIT.

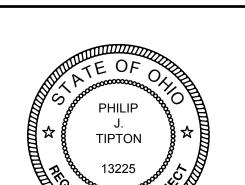
13. FIELD INSTALLED WOOD COLUMN (SEE SUPPLEMENTAL DRAWINGS FOR DETAILS).

**GENERAL PLAN NOTES** 

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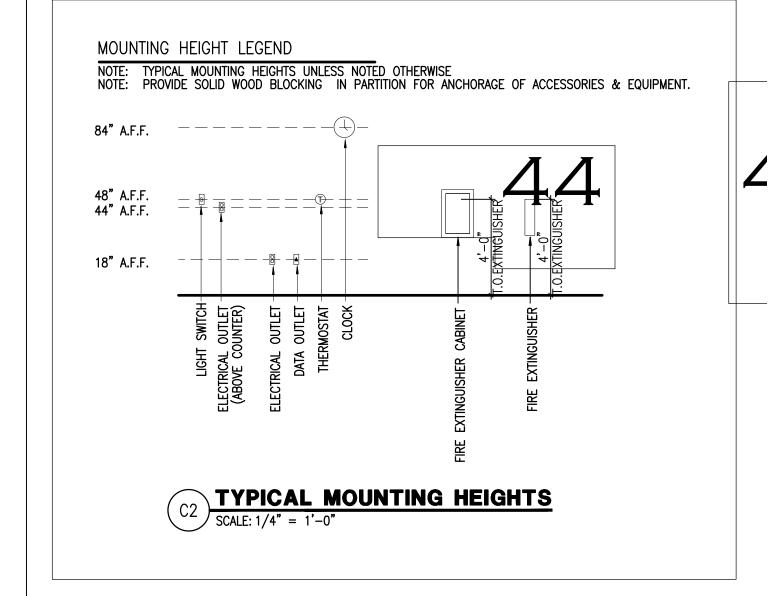
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OF . SHEETS

41'-11 1/2" CLR. INSIDE DIMENSION EXISTING FLOOR AREA =  $\pm 934$  SQ. FT. (46 OCCUPANTS MAX. @ 20 S.F/OCC.) MARRIAGE LINE OF UNITS 8'-6" EXIST. DIM. 103'-0" FIN, FLR. (USGS 813.00, 5 TREADS @ 11" = 4'-7"1'-1 1/2 5'-2 1/2" 18'-0| 1/2" · LIMITS OF EXISTING ASPHALT DRIVE A1 (FOR FRAMING, A701) SEE THIS DETAIL) 5'-2 1/2" 29'-0 1/2"



5

SLOPE UP TO WOOD RAMP, SEE DETAILS ON SHEET A701.

12. FIRE EXTINGUISHER, WALL BRACKET MOUNTED.

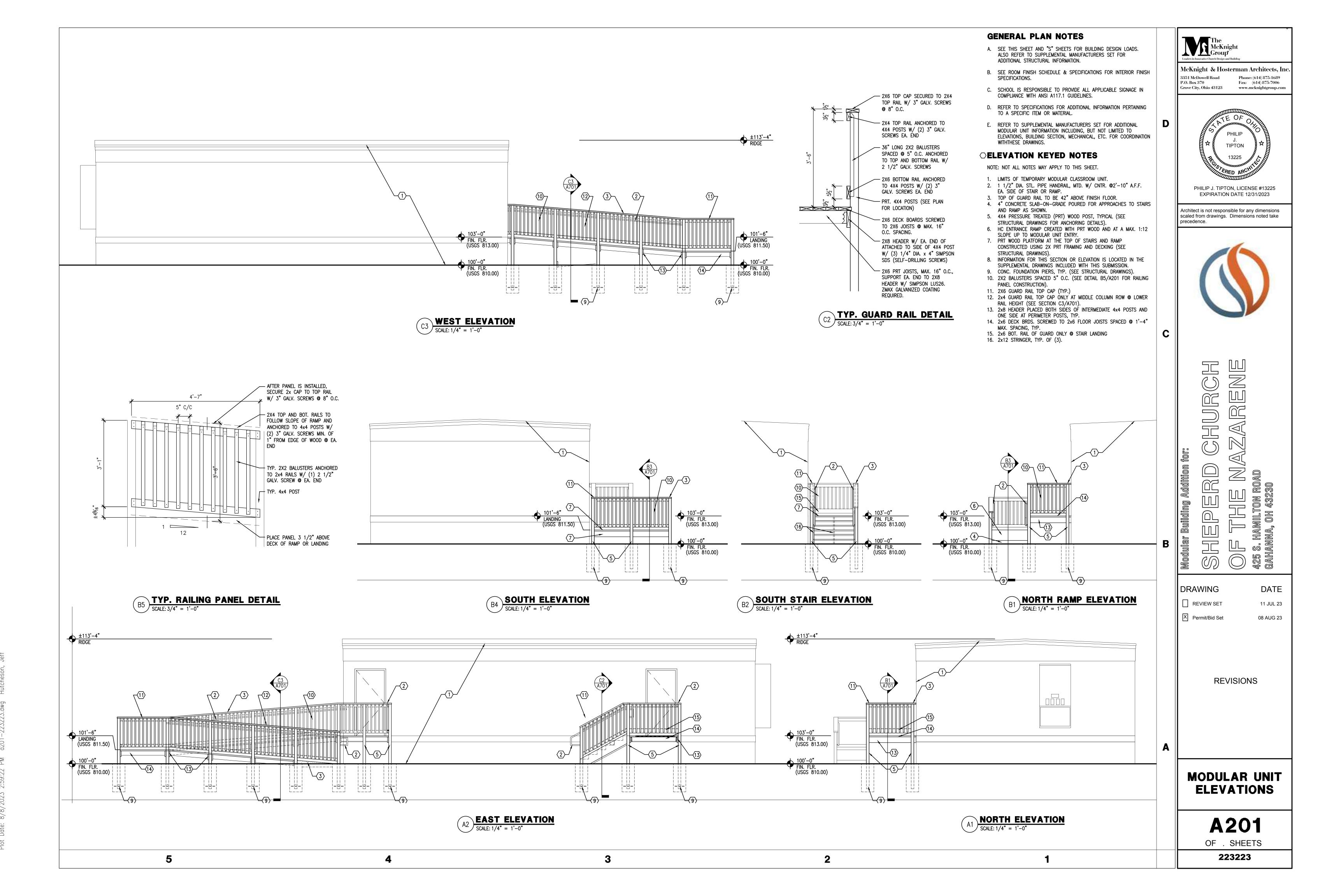
CHURCH

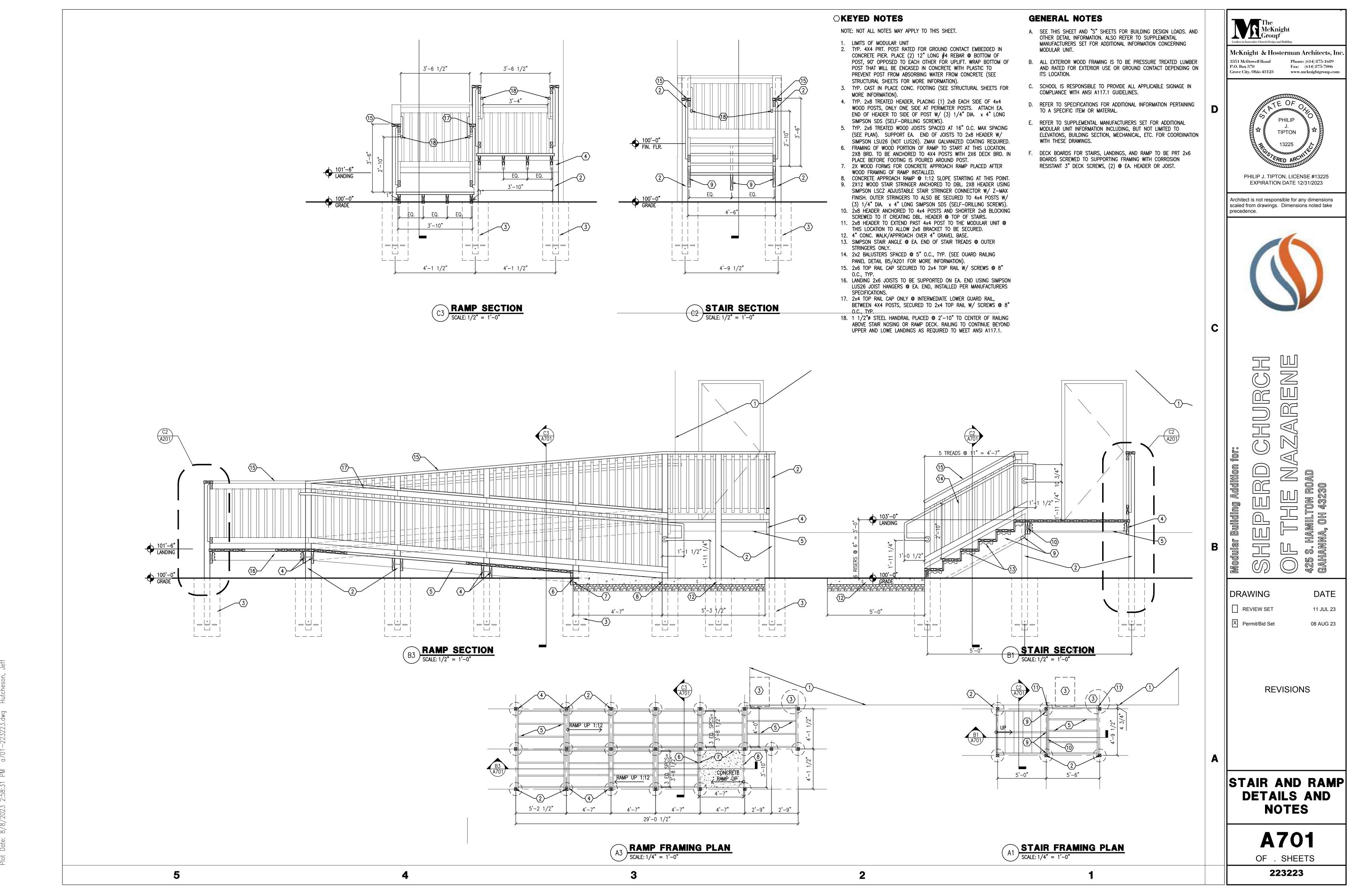
FLOOR PLAN,

**SCHEDULES &** 

**NOTES** 

A101





#### DIVISION 01 — GENERAL REQUIREMENTS 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 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 A 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. 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, TH 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 B. CURB CUT PERMIT WATER FRONT FOOTAGE CHA 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 ALARM 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

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 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, 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 IARANTEE 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.

 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 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

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

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 THI SUBSTITUTION A LETTER OF ACCEPTANCE WILL BE ISSUED BY THE ARCHITECT. NO SUBSTITUTION OF MATERIALS IS PERMITTED UNLESS THE ARCHITECT ISSUES A LETTER OF ACCEPTANCE.

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

03 30 00 - CAST-IN-PLACE CONCRETE

PART1 GENERAL

BASIC SPECIFICATION: PERFORM WORK OF THIS SECTION ACCORDING TO ACI 301-10, "SPECIFICATIONS FOR 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

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.

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

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. 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.

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. SUBMITTALS TO COMPLY WITH APPROPRIATE

SUBMIT, ON REQUEST ONLY, PRODUCT LITERATURE FOR ADMIXTURES AND CURING COMPOUNDS PROPOSED FOR USE.

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.

SUBMIT REPORTS OF ALL REQUIRED TESTING AND INSPECTION. SUBMIT FOR APPROVAL PROPOSED SPACING AND LOCATION OF CONSTRUCTION AND/OR CONTROL JOINTS IN

CONCRETE SLABS ON GRADE. PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, MNL-15, AND ONE COPY OF CRSI'S

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.

"PLACING REINFORCING BARS," IN THE FIELD OFFICE AT ALL TIMES.

BLENDED HYDRAULIC CEMENT: ASTM C595 WATER: POTABLE, CONFORMING TO C94.

AGGREGATES: ASTM C33. USE SIZE NO. 57 COARSE AGGREGATE, UNLESS OTHERWISE INDICATED. PROVIDE

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

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.

HIGH-RANGE, WATER-REDUCING ADMIXTURE: ASTM C494 TYPE F HIGH-RANGE, WATER-REDUCING AND RETARDING ADMIXTURE: ASTM C494, TYPE G. . 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 BE 60 KSI. BARS TO BE WELDED ARE B. EPOXY COATING: ASTM A775 OR ASTM A934

C. WELDED WIRE FABRIC: ASTM A1064. PROVIDE IN SHEET FORM (NOT ROLLS). PREFORMED EXPANSION JOINT OR ISOLATION JOINT FILLER: ASTM D1751 OR ASTM D1752.

CURING COMPOUND: FOLLOW REQUIREMENTS OF ACI 308R AND COMPLY WITH ASTM C309, TYPE 1, CLASS B (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

GROUT FOR MASONRY CORE FILL: ASTM C476, COARSE TYPE OR FINE TYPE, PLACED PER ACI 530.1.

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 TOLERANCES PRODUCTS INCLUDE, BUT ARE NOT LIMITED TO:

CURING AND SEALING COMPOUND: ASTM C1315, TYPE 1, CLASS A, A CLEAR MEMBRANE-FORMING COMPOUND WHICH WILL NOT YELLOW. MUST BE FORMULATED FOR INTENDED APPLICATION, EITHER INTERIOR OR EXTERIOR AND APPLIED PER MANUFACTURER'S WRITTEN RECOMMENDATIONS.

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: K. TONGUE & GROOVE JOINT 95 BY HECKMANN BUILDING PRODUCTS, INC.

14. JOINT SEALANT: USE 1-COMPONENT POLYURETHANE, CONFORMING TO ASTM C920, TYPE S, GRADE NS, CLASS 25. USE WITH BACKER ROD AS REQUIRED.

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. INCLUDE MANUFACTURER'S RECOMMENDED ADHESIVE OR PRESSURE—SENSITIVE TAPE.

THE FOLLOWING CLASSES OF CONCRETE ARE REQUIRED (F'c AT 28 DAYS):

16. DOVETAIL SLOTS: GALVANIZED STEEL, 24 GAGE MINIMUM.

B. CLASS II - INTERIOR SLABS ON GRADE, CONCRETE FILL OVER COMPOSITE STEEL DECK, AND ALL INTERIOR CONCRETE NOT OTHERWISE IDENTIFIED. MINIMUM F'C=3500 PSI; WATER-REDUCER REQUIRED. MINIMUM CEMENT 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 WATER-REDUCER REQUIRED. MINIMUM CEMENT CONTENT 564 LBS. PER CUBIC YARD. MAXIMUM 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 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 TESTING AGENCY FOR PREPARING AND REPORTING PROPOSED MIXTUREDESIGNS, BASED ON LABORATORY TRIAL XI. FIELD QUALITY CONTROL

CEMENTITIOUS MATERIALS: LIMIT PERCENTAGE, BY WEIGHT, OF CEMENTITIOUS MATERIALS OTHER THAN PORTLAND 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 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 EXCEEDING 25 PERCENT BY MASS.

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.

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.

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 PROCEDURES AND SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS, ANI 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 MATERIAL IS NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT, AND SHALL REMAIN THE CONTRACTOR'S PROPERTY.

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.

DETERMINE FIELD CONDITIONS BY ACTUAL MEASUREMENT.

II. FORMWORK AND REINFORCING

FOOTINGS MAY BE CAST AGAINST EARTH CUTS WHEN SOIL CONDITIONS PERMIT.

A. REMOVE NO FORMS WITHIN FIRST 24 HOURS AFTER PLACEMENT.

PLACE AND SECURE ANCHORAGE DEVICES AND OTHER EMBEDDED ITEMS REQUIRED FOR ADJOINING WORK THAT IS ATTACHED TO OR SUPPORTED BY CAST-IN-PLACE CONCRETE: a. Use setting drawings, templates, diagrams, instructions, and directions furnished with ittems to be B. INSTALL ANCHOR RODS, ACCURATELY LOCATED, TO ELEVATIONS REQUIRED AND COMPLYING WITH TOLERANCES IN

INSTALL EMBEDDED CONDUIT, PIPES AND SLEEVES SUBJECT TO THE FOLLOWING LIMITATIONS A. DO NOT EMBED ALUMINUM WITHOUT PRIOR APPROVAL OF COATING MATERIAL. B. DO NOT DISPLACE REINFORCING STEEL. C. IN SLABS AND WALLS, LIMIT OUTSIDE DIMENSION OF CONDUITS AND PIPES TO 1/3 MEMBER THICKNESS. D. MAINTAIN A CENTER—TO—CENTER SPACING OF AT LEAST THREE DIAMETERS OF CONDUIT OR PIPE.

V. DELIVERY AND PLACEMENT

SECTION 7.5 OF ANSI/AISC 303.

A. VERIFY THAT INSTALLATION OF FORMWORK, REINFORCEMENT, EMBEDDED ITEMS, AND VAPOR RETARDER COMPLETE AND THAT REQUIRED INSPECTIONS ARE COMPLETED. B. IMMEDIATELY PRIOR TO CONCRETE PLACEMENT, INSPECT VAPOR RETARDER FOR DAMAGE AND DEFICIENT 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. D. DO NOT USE ADDITIVES OR SALTS TO REMOVE ICE E. IN COLD WEATHER, MAINTAIN TEMPERATURE OF FORMS AND REINFORCING SUCH THAT CONCRETE TEMPERATURE

CAN BE KEPT WITHIN THE SPECIFIED RANGE. NOTIFY ARCHITECT AND SPECIAL INSPECTION AND TESTING AGENCY 24 HOURS PRIOR TO PLACING CONCRETE. DO NOT ADD WATER TO CONCRETE DURING DELIVERY, AT PROJECT SITE, OR DURING PLACEMENT UNLESS APPROVED 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) 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.

STRUCTURAL FRAMING MEMBERS:
A. PLACE JOINTS PERPENDICULAR TO MAIN REINFORCEMENT.

A. PLACE CONCRETE IN ACCORDANCE WITH ACI 304R.

WITH VIBRATORS WITHIN FORMS IS PROHIBITED.

B. PLACE CONCRETE FOR FLOOR SLABS IN ACCORDANCE WITH ACI 302.1R.

A. CONFORM TO ASTM C94.

PLACEMENT:

EXTERIOR SLABS ON GRADE: LOCATE JOINTS AS SHOWN ON THE DRAWINGS. IN THE ABSENCE OF INFORMATION ON THE DRAWINGS, PROVIDE THE FOLLOWING: A. EXPANSION JOINTS: FULL DEPTH, WITH 1/2 INCH JOINT FILLER, WHERE SLABS ABUT VERTICAL SURFACES, AT NTERSECTIONS OF SIDEWALKS, AT ABRUPT CHANGES IN WIDTH, AND AT A SPACING NOT EXCEEDING 30 FEET. B. CONTROL JOINTS: TOOLED, 7/8 INCH DEEP, 4'-0" TO 6'-0" ON CENTER BETWEEN EXPANSION JOINTS.

B. ASTM C94 REQUIRES DISCHARGE WITHIN 1-1/2 HOURS OR 300 REVOLUTIONS, WHICHEVER OCCURS FIRST

C. PLACE CONCRETE AT THE MAXIMUM SLUMP FOR WHICH THE MIX WAS DESIGNED WITH A TOLERANCE OF UP TO

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

E. IN WALLS AND PIERS, DEPOSIT CONCRETE IN UNIFORM HORIZONTAL LAYERS WITH A MAXIMUM DEPTH OF 5 FEET

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

H. CONSOLIDATE CONCRETE DURING PLACEMENT OPERATIONS, SO CONCRETE IS THOROUGHLY WORKED AROUND REINFORCEMENT AND OTHER EMBEDDED ITEMS AND INTO CORNERS.

INTERIOR SLABS ON GRADE:

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 CENTER GENERALLY. SCHEDULE SLAB PLACEMENTS AND SAWCUTTING OPERATIONS SUCH THAT SAWING IS

COMPLETE SAW CLITTING WITHIN 12 HOURS AFTER

COMPLETED PRIOR TO ONSET OF SHRINKAGE CRACKING. COMPLETE SAW CUTTING WITHIN 12 HOURS AFTER

INCH ABOVE THE MAXIMUM FOR ONE BATCH IN ANY FIVE CONSECUTIVE BATCHES TESTED.

MAINTAIN REINFORCEMENT IN POSITION ON CHAIRS DURING CONCRETE PLACEMENT.

COMPLY WITH ACI 302.1R RECOMMENDATIONS FOR SCREEDING, RESTRAIGHTENING, AND FINISHING OPERATIONS FOR CONCRETE SURFACES. DO NOT WET CONCRETE SURFACES.

REPAIR SURFACE DEFECTS, INCLUDING TIE HOLES, IMMEDIATELY AFTER REMOVING FORMWORK 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. B. FLOATED FINISH: INTERIOR FLOOR AREAS TO RECEIVE FINISH IN CEMENTITIOUS SETTING BED. C. OTHER SURFACES TO BE LEFT EXPOSED: TROWELED FINISH, MINIMIZING BURNISH MARKS AND OTHER . BROOM FINISH: EXTERIOR SLABS, STEPS, RAMPS, ETC.

E. AS PER INDICATED ON THE DRAWINGS (IF REQUIRED): NON-SLIP OR APPLICATION OD HARDENER PER THE MANUFACTURER'S INSTRUCTIONS. 3. IN AREAS WITH FLOOR DRAINS, MAINTAIN FLOOR ELEVATION AT WALLS; PITCH SURFACES UNIFORMLY TO DRAINS AT

IN GENERAL, CONFORM TO ACI 117 FOR CONCRETE MEMBERS.

ALL EXTERIOR SLABS SHALL BE FINISHED TO A 1/2" IN 10'-0" TOLERANCE

A. WHEN AIR TEMPERATURE DURING PLACEMENT IS LESS THAN 40 DEGREES, OR WILL BE WITHIN 24 HOURS, 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 THE FULL CURING PERIOD OF SEVEN DAYS.

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. 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 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 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 HAVE ELAPSED, CURE THE FORMED SURFACES BY MOIST-CURING OR APPLICATION OF CURING COMPOUND FOR

E. ALL EXTERIOR SLABS ARE TO RECEIVE AN APPLICATION OF CURING/SEALING COMPOUND TO HARDENED CONCRETE PRIOR TO COMPLETION OF CONSTRUCTION.

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.

2. INSTALL GROUT PER THE RECOMMENDATIONS OF THE MANUFACTURER.

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.

OBTAIN CONCRETE FOR REQUIRED TESTS AT POINT OF PLACEMENT.

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 FRESH CONCRETE SHALL BE OBTAINED IN ACCORDANCE WITH ASTM C172.

FOR EACH REQUIRED CONCRETE SAMPLE, THE FOLLOWING PROPERTIES SHALL BE DETERMINED A. SLUMP: ASTM C143 B. SLUMP FLOW: ASTM C1611

C. AIR CONTENT: ASTM C231 D. TEMPERATURE: ASTM C1064. DETERMINE CONCRETE TEMPERATURE FOR EACH STRENGTH TEST WHEN AIR TEMPERATURE IS LESS THAN 40 DEGREES F OR WILL BE WITHIN 24 HOURS.

E. UNIT WEIGHT: ASTM C567 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 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

5. DO NOT PLACE CONCRETE WHEN SLUMP, AIR CONTENT OR TEMPERATURE VARY FROM ALLOWABLE. WHEN STRENGTH OF FIELD-CURED CYLINDERS IS LESS THAN 85 PERCENT OF COMPANION LABORATORY-CURED 06 10 00 STRUCTURAL LUMBER, SHEATHING, AND ROUGH CARPENTRY YLINDERS, CONTRACTOR SHALL EVALUATE OPERATIONS AND PROVIDE CORRECTIVE PROCEDURES FOR PROTECTING AND CURING IN-PLACE CONCRETE.

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 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.

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 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

C. NON-DESTRUCTIVE TESTING: IMPACT HAMMER, SONOSCOPE, OR OTHER NON-DESTRUCTIVE DEVICE MAY BE PERMITTED BY ARCHITECT OR ENGINEER BUT WILL NOT BE USED AS SOLE BASIS FOR APPROVAL OR REJECTION D. ACCEPTANCE CRITERIA FOR CONCRETE STRENGTH SHALL BE IN ACCORDANCE WITH ACI 301 SECTION 1.6.6

ADDITIONAL TESTING AND INSPECTING, AT CONTRACTOR'S EXPENSE, WILL BE PERFORMED TO DETERMINE COMPLIANCE OF REPLACED OR ADDITIONAL WORK WITH SPECIFIED REQUIREMENTS 10. CORRECT DEFICIENCIES IN THE WORK THAT TEST REPORTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE

DIVISION 04 - MASONRY (NOTES IN THIS SECTION ARE TO BE COORDINATED WITH THE STRUCTURAL DRAWINGS. IF THERE IS A CONFLICT, THE STRUCTURAL DRAWINGS TAKE PRECEDENCE).

STANDARD CONCRETE BLOCK UNITS SHALL COMPLY WITH ASTM C-90 FOR HOLLOW LOAD BEARING UNITS, ASTM C-145 FOR SOLID LOAD BEARING UNITS AND ASTM C-55 FOR CONCRETE BRICK.

2. CMU BEARING UNITS TO BE "DRY-STACKED" AT LOCATIONS INDICATED ON THE DRAWINGS. MINIMUM BEARING OF MASONRY ON MASONRY SHALL BE 7 1/2", U.N.O. IN THE DRAWINGS.

MASONRY CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF SLEEVES THROUGH FOUNDATION WALLS. SLEEVES AND THEIR LOCATIONS ARE TO BE PROVIDED BY THE VARIOUS CONTRACTORS' NEED FOR SLEEVES. SUBMIT PDF'S OF SHOP DRAWINGS OF REINFORCING MATERIALS FOR APPROVAL, PRIOR TO FABRICATION.

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 - MISCELLANEOUS STEEL (NOTES IN THIS SECTION ARE TO BE COORDINATED WITH THE STRUCTURAL DRAWINGS. IF THERE IS A CONFLICT, THE STRUCTURAL DRAWINGS TAKE PRECEDENCE). THERE IS A CONFLICT, THE STRUCTURAL DRAWINGS TAKE PRECEDENCE).

05 12 00 - STRUCTURAL STEEL FRAMING 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.

A. REMOVE OIL, DIRT, LOOSE MILL SCALE, OR OTHER MATERIAL WHICH WOULD IMPAIR WELDING, PERFORMANCE OF SLIP CRITICAL CONNECTIONS, OR ADHERENCE OF CONCRETE OR SPRAYED FIREPROOFING. B. FOR STEEL THAT IS TO BE PAINTED, CLEANING TECHNIQUES ARE TO BE AS REQUIRED BY THE APPROPRIATE

A. SHOP-PAINT STEEL EXPOSED TO VIEW IN THE FINISHED STRUCTURE, EXCEPT THAT TO BE GALVANIZED, WITH DIVISION 11 - EQUIPMENT - NOT APPLICABLE

1. PREPARE SURFACE BY COMMERCIAL BLAST CLEANING PER "SSPC-SP 6 (WAB)/NACE WAB-3" AND APPLY 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 FIREPROOFING, C CONTACT SURFACES IN SLIP-CRITICAL CONNECTIONS, OR SURFACES TO BE FIELD-WELDED, OR TOP

B. STEEL NOT EXPOSED TO VIEW IN THE FINISHED STRUCTURE NEED NOT BE PAINTED, EXCEPT COLUMNS AND PORTIONS OF BEAMS OTHER THAN LINTELS EMBEDDED IN OR BUILT WITHIN EXTERIOR WALLS, WHICH SHALL BE PAINTED WITH TWO COATS OF PRIMER PER THE REQUIREMENTS IN #1 ABOVE, FOR A TOTAL DRY FILM | DIVISION 21 - FIRE PROTECTION (FIRE SUPPRESSION/SPRINKLER/STANDPIPE SYSTEMS) - NOT APPLICABLE THICKNESS OF 4.0 MILS. C. PAINT ALL LINTELS IN INTERIOR WALLS WITH ONE COAT OF PRIMER PER THE REQUIREMENTS IN #1 ABOVE.

A. PREPARE SURFACES ACCORDING TO SSPC-SP 16 B. GALVANIZING IS TO CONFORM TO ASTM A123, GRADE 100, OR ASTM A153, CLASS C. FOLLOW AL RECOMMENDATIONS OF THE AMERICAN HOT DIP GALVANIZERS ASSOCIATION.

C. EXCEPT FOR BOLTS, NUTS, WASHERS, AND ANCHORS, PERFORM ALL GALVANIZING AFTER FABRICATION. D. PRIOR TO GALVANIZING, CLEAN STEEL OF FOREIGN SUBSTANCES PER ASTM A385. 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, Z.R.C. COLD GALVANIZING COMPOUND BY ZRC PRODUCTS COMPANY, OR EQUAL. G. GALVANIZE ALL SHELF ANGLES, LINTELS IN EXTERIOR WALL, AND ALL STEEL EXPOSED TO THE ELEMENTS AND

PRIOR TO BEGINNING WORK OF THIS SECTION, VERIFY THAT THE INSTALLED WORK OF OTHER TRADES IS COMPLETE AND CORRECT TO THE EXTENT NECESSARY FOR THE PROPER EXECUTION OF THE WORK OF THIS SECTION. THIS INCLUDES LOCATIONS OF ANCHOR BOLTS, AND LINES AND GRADES OF BEARING AREAS.

IN THE EVENT OF DISCREPANCIES, IMMEDIATELY NOTIFY THE ARCHITECT. DO NOT PROCEED WITH WORK AFFECTED BY THE DISCREPANCIES UNTIL THEY HAVE BEEN RESOLVED.

SAFETY: IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND

CLEAN BEARING SURFACES AND OTHER SURFACES IN PERMANENT CONTACT, PRIOR TO ASSEMBLY.

ALL ITEMS INDICATED ON THE DRAWINGS AS GALVANIZED.

SPLICES ARE PERMITTED ONLY WHERE INDICATED.

TOLERANCES: PER AISC CODE OF STANDARD PRACTICE. TOUCH-UP PAINTING: AFTER ERECTION, TOUCH\_UP FIELD CONNECTIONS AND ABRASIONS IN THE SHOP COAT WITH SAME PAINT USED FOR SHOP COAT. DO NOT PAINT WELDS UNTIL THEY HAVE BEEN CLEANED IN ACCORDANCE

05 5000 - METAL FABRICATIONS

1. INCLUDES SHOP FABRICATED STEEL ITEMS.

SUBMIT SHOP DRAWINGS THAT INDICATE PROFILES, SIZES, CONNECTION ATTACHMENTS, REINFORCING. ANCHORAGE. SIZE AND TYPE OF FASTENERS. INCLUDE ERECTION DRAWINGS, ELEVATIONS, AND DETAILS WHERE APPLICABLE.

FABRICATION

MATERIALS — STEEL A. STEEL SECTIONS: ASTM A 36/A 36M. B. STEEL TUBING: ASTM A501/A501M HOT-FORMED STRUCTURAL TUBING.

C. PLATES: ASTM A 283. D. PIPE: ASTM A 53/A 53M, GRADE B SCHEDULE 40, BLACK FINISH. E. BOLTS, NUTS, AND WASHERS: ASTM A 325 (ASTM A 325M), TYPE 1, GALVANIZED TO ASTM A 153/A (153M

WHERE CONNECTING GALVANIZED COMPONENTS). F. WELDING MATERIALS: AWS D1.1/D1.1M; TYPE REQUIRED FOR MATERIALS BEING WELDED. G. SHOP AND TOUCH-UP PRIMER: SSPC-PAINT 15, COMPLYING WITH VOC LIMITATIONS OF AUTHORITIES HAVING

A. FIT AND SHOP ASSEMBLE ITEMS IN LARGEST PRACTICAL SECTIONS, FOR DELIVERY TO SITE. B. FABRICATE ITEMS WITH JOINTS TIGHTLY FITTED AND SECURED.

GRIND EXPOSED JOINTS FLUSH AND SMOOTH WITH ADJACENT FINISH SURFACE. MAKE EXPOSED JOINTS BUTT TIGHT, FLUSH, AND HAIRLINE. EASE EXPOSED EDGES TO SMALL UNIFORM RADIUS. D. SUPPLY COMPONENTS REQUIRED FOR ANCHORAGE OF FABRICATIONS. FABRICATE ANCHORS AND RELATED

COMPONENTS OF SAME MATERIAL AND FINISH AS FABRICATION, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.

A. LEDGE ANGLES, SHELF ANGLES, CHANNELS, AND PLATES NOT ATTACHED TO STRUCTURAL FRAMING: PRIME PAINT B. RAILING ASSEMBLY: PIPE HAND RAILS, WALL RAILS, AND ALL ATTACHMENTS TO RESIST LATERAL FORCE OF 7 LBS AT ANY POINT WITHOUT DAMAGE OR PERMANENT SET. TEST IN ACCORDANCE WITH ASTM E 935. PROVIDE WELDING FITTINGS TO JOIN LENGTHS, SEAL OPEN ENDS, AND CONCEAL EXPOSED MOUNTING BOLTS AND NUTS INCLUDING BUT NOT LIMITED TO ELBOWS, T-SHAPES, SPLICE CONNECTORS, FLANGES, ESCUTCHEONS, AND WALL

A. PRIME PAINT STEEL ITEMS.

B. PREPARE SURFACES TO BE PRIMED IN ACCORDANCE WITH SSPC-SP2.

C. CLEAN SURFACES OF RUST, SCALE, GREASE, AND FOREIGN MATTER PRIOR TO FINISHING. D. PRIME PAINTING: ONE COAT

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES (NOTES IN THIS SECTION ARE TO BE COORDINATED WITH THE STRUCTURAL

DRAWINGS. IF THERE IS A CONFLICT, THE STRUCTURAL DRAWINGS TAKE PRECEDENCE).

ALL WOOD BLOCKING PRIOR TO FINISH MATERIAL INSTALLATION.

ROUGH OPENINGS OF ALL DOORS, WINDOWS, ETC. SHALL BE VERIFIED BY CONTRACTOR PRIOR TO INSTALLATION. CARPENTRY CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR REGARDING LOCATION AND EXTENT O

ALL STRUCTURAL GRADE LUMBER SHALL HAVE A MINIMUM ALLOWABLE STRESS IN COMPRESSION OF 1.400 PSI OR GREATER AND A MODULUS OF ELASTICITY OF 1,500,000 PSI.

WHERE REQUIRED, STRUCTURAL LUMBER SHALL BE TREATED PER GOVERNMENTAL CODES AND REGULATIONS HAVING JURISDICTION OVER THE PROJECT. PROVIDE WRITTEN CERTIFICATION FOR FIRE RETARDANT CLASSIFICATION FROM AN ACCREDITED INDEPENDENT LABORATORY. ROUGH CARPENTER TO FURNISH AND INSTALL JOIST HANGERS FOR ALL WOOD TRUSSES, JOISTS AND RAFTERS FRAMING INTO SIDES OF OTHER MEMBERS. CONTRACTOR TO FURNISH HANGERS SIZED IN ACCORDANCE WITH

ROUGH CARPENTRY TO FURNISH AND INSTALL SIMPSON HS SEISMIC/HURRICANE ANCHORS AT BEARING POINTS OF ALL ROOF MEMBERS (INCLUDING CONVENTIONAL FRAMING AND WOOD TRUSSES) TO PREVENT UPLIFT. ALL EXTERIOR LUMBER TO BE PRESSURE TREATED AND RATED FOR GROUND CONTACT WHERE APPLICABLE.

ALL FASTENERS USED SHALL BE GALVANIZED AND SHALL BE COMPATIBLE FOR USE WITH PRESSURE TREATED

SIMPSON DESIGN GUIDELINES FOR THE SPECIFIED LOADING AS SHOWN ON DRAWINGS.

DIVISION 07 - THERMAL & MOISTURE PROTECTION

BATT INSULATION

A. CODE COMPLIANT BATT INSULATION HAS BEEN PREVIOUSLY BEEN INSTALLED AT THE TIME THE MODULAR UNIT WAS MANUFACTURED. NO MODIFICATIONS ARE TO TAKE PLACE WITH THE UNIT. 2. FLASHING

TOP OF EXTERIOR WOOD JOISTS AND HEADERS PRIOR TO THE INSTALLATION OF DECKING. \*THE PRE-MANUFACTURED UNIT IS UNDERSTOOD TO BE COMPLETE WITH CODE COMPLIANT DOORS AND HARDWARE ALREADY DIVISION 09 - FINISHES - NOT APPLICABLE

LISTED IN THE BUILDING CODE.

FTHE PRE-MANUFACTURED UNIT IS UNDERSTOOD TO BE COMPLETE WITH FINISHES ALREADY INSTALLED. MODIFICATIONS O REPLACEMENT OF FINISHES IS THE RESPONSIBILITY OF THE OWNER, AND THEY ARE REQUIRED TO MEET THE REQUIREMENTS

DIVISION 10 - SPECIALTIES - NOT APPLICABLE

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.

0 4400 - FIRE PROTECTION SPECIALTIES

DIVISION 12 - FURNISHINGS - NOT APPLICABLE

DIVISION 13 — SPECIAL CONSTRUCTION — NOT APPLICABLE

DIVISION 14 - CONVEYING EQUIPMENT - NOT APPLICABLE

DIVISION 22 - PLUMBING - (SEE MECHANICAL SHEET FOR SPECIFICATIONS) IVISION 23 — HEATING, VENTILATING & AIR CONDITIONING (SEE MECHANICAL SHEET FOR SPECIFICATIONS)

DIVISION 26 - ELECTRICAL - (SEE ELECTRICAL SHEET FOR SPECIFICATIONS)

COMPLY WITH ALL REGULATIONS OF THOSE GOVERNMENTAL AGENCIES HAVING JURISDICTION REGARDING DISPOSAL OF EXCESS AND WASTE MATERIALS.

CONTRACTOR(S) SHALL BE RESPONSIBLE TO EXAMINE THE SITE AND VERIFY THE EXTENT OF DEMOLITION WORK

3. ALL WORK IN RIGHT-OF-WAY SHALL MEET ALL REGULATIONS AND STANDARDS OF THOSE GOVERNMENTAL AGENCIES

LOCATE AND PROTECT BENCH MARKS, MONUMENTS AND CONTROL POINTS AND, IF DISTURBED OR DESTROYED, REPAIR AND/OR REPLACE AT NO COST TO THE OWNER.

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 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. 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 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

11. IN AREAS DESIGNATED FOR BUILDINGS, WALKS AND PAVING, COMPACT THE SUB-GRADE AND, WHEN REQUIRED, EACH

10. EARTH FILL, WHEN REQUIRED, CAPABLE OF ACHIEVING THE SPECIFIED COMPACTION SHALL BE PLACED IN HORIZONTAL LAYERS NOT GREATER THAN 8" OF UNCOMPACTED THICKNESS.

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.

14. OWNER TO PROVIDE ALL LANDSCAPE WORK SHOWN ON DRAWINGS.

ENTRANCE, COORDINATING SAME WITH ELECTRICAL CONTRACTOR

12. FINISHED GRADES AND WALKS SHALL SLOPE AWAY FROM BUILDING TO PREVENT PONDING OR STANDING WATER. 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

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. I UTILITIES ARE UNCHARTED OR INCORRECTLY CHARTED AND SUBSEQUENTLY ENCOUNTERED, IMMEDIATELY NOTIFY THE

16. ALL UTILITIES TO BE INSTALLED IN ACCORDANCE WITH CODES AND REGULATIONS OF GOVERNMENTAL AGENCIES AND UTILITY COMPANIES HAVING JURISDICTION OVER THIS PROJECT.

SIZE AND LOCATION WITH GAS COMPANY SERVICING THE AREA AND COORDINATE WITH PLUMBING CONTRACTOR RESPONSIBLE FOR INSTALLING GAS SERVICE.

24. TELEPHONE SERVICE:

23. ELECTRIC SERVICE: A. CONFIRM TYPE OF ELECTRIC SERVICE, TYPE AND SIZE OF TRANSFORMER AND METER, AND THEIR INSTALLATION WITH ELECTRIC COMPANY SERVING AREA, COORDINATING SAME WITH ELECTRICAL CONTRACTOR. B. SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR CONNECTIONS TO EXISTING SERVICES, INCLUDING FIRE

A. SEE SITE AND PLUMBING DRAWINGS FOR CONNECTIONS TO EXISTING NATURAL GAS SERVICE. CONFIRM GAS TA

9 

DRAWING

REVIEW SET

X Permit/Bid Set

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

REVISIONS

**SPECIFICATIONS** 

DATE

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08 AUG 23

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EXPIRATION DATE 12/31/2023

Architect is not responsible for any dimensions

scaled from drawings. Dimensions noted take

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OF . SHEETS

A. OPTIONAL APPLICATION OF SELF-HEALING, 4" WIDE PEEL-N-STICK MEMBRANE FLASHING TO BE PLACED OVER

#### **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
- 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

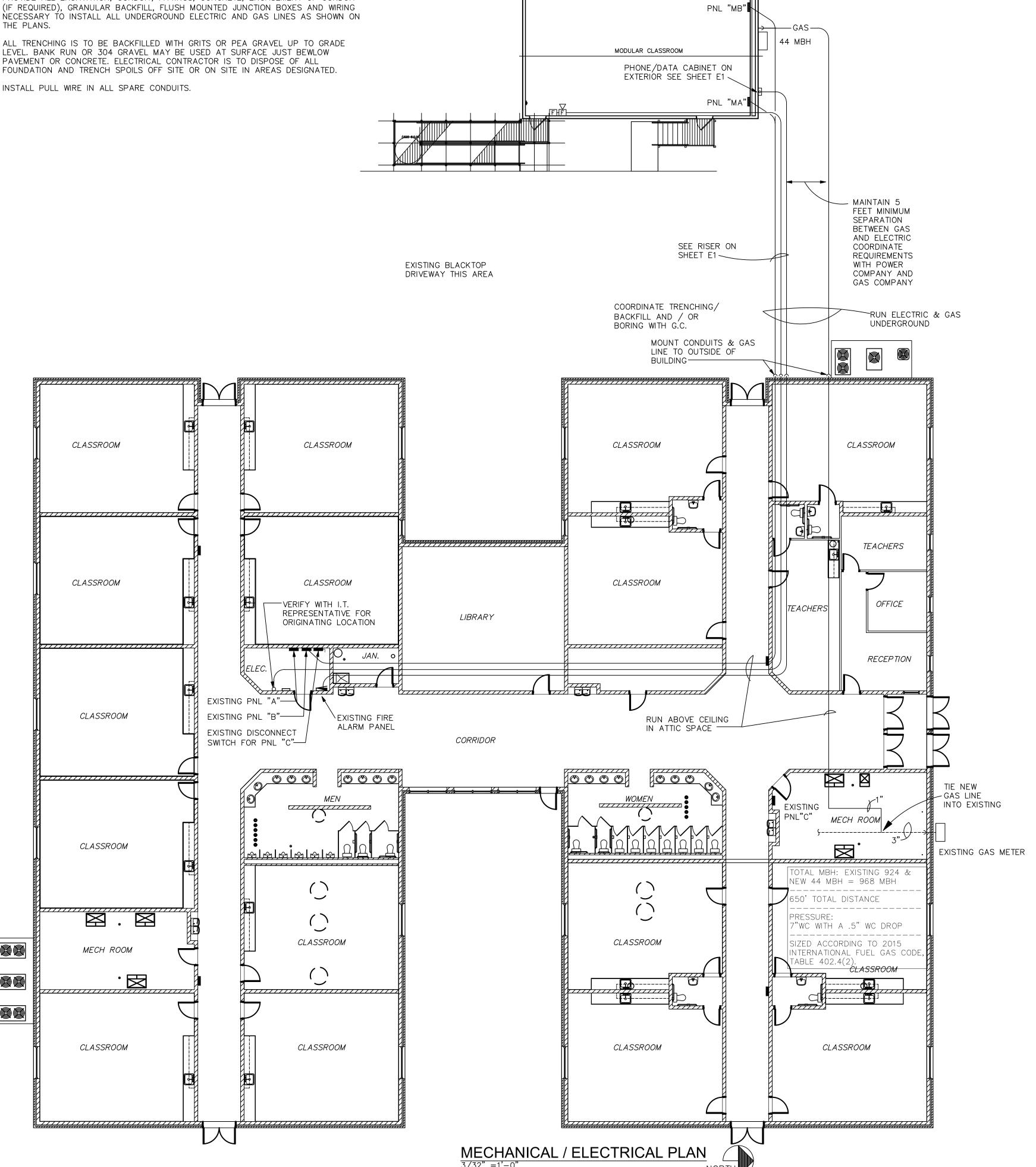
- 12. PROVIDE FLEXIBLE CONDUIT FOR ALL VIBRATING EQUIPMENT, NOT TO EXCEED 3 FT. IN LENGTH.
- 13. MINIMIZE EXPOSED CONDUIT BY CONCEALING IN WALLS AS MUCH AS POSSIBLE.
- 14. BALANCE ALL PANELS WITHIN 10% OF EACH PHASE LEG.
- 15. PROVIDE LABELS AND TAGS FOR ALL PANELS AND SWITCHGEAR EQUIPMENT. PROVIDE TYPED 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
- 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.

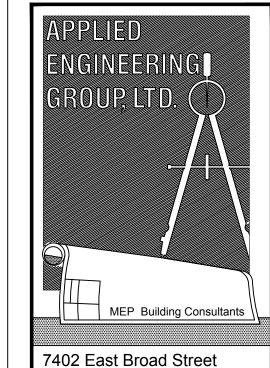
#### MECHANICAL - GAS PIPING:

- 22. ABOVE GROUND: GAS LINES SHALL BE BLACK STEEL, SCHEDULE 40, ASTM A-53/53M. FITTINGS SHALL BE AS
- 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, WITH ARC-RESISTANT JACKET. WHERE USED UNDERGROUND PIPING SHALL BE RATED FOR DIRECT BURY OR INSTALLED IN A PIPE SLEEVE EXTENDING ABOVE GROUND ON BOTH ENDS. NO FITTINGS ARE ALLOWED UNDERGROUND.
- 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 DRAWNGS, OR BY STANDARD INDUSTRY PRACTICE, WHICHEVER IS
- 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.

#### SITE GENERAL NOTES

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





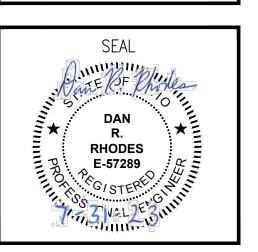
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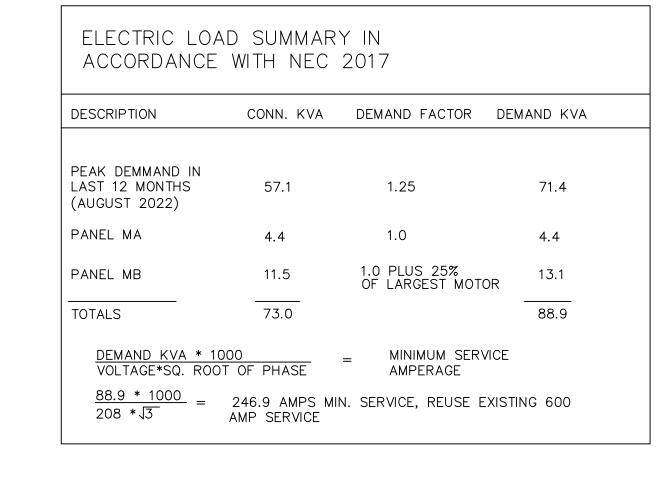
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SHEET TITLE **MECHANICAL ELECTRICAL PLAN** 

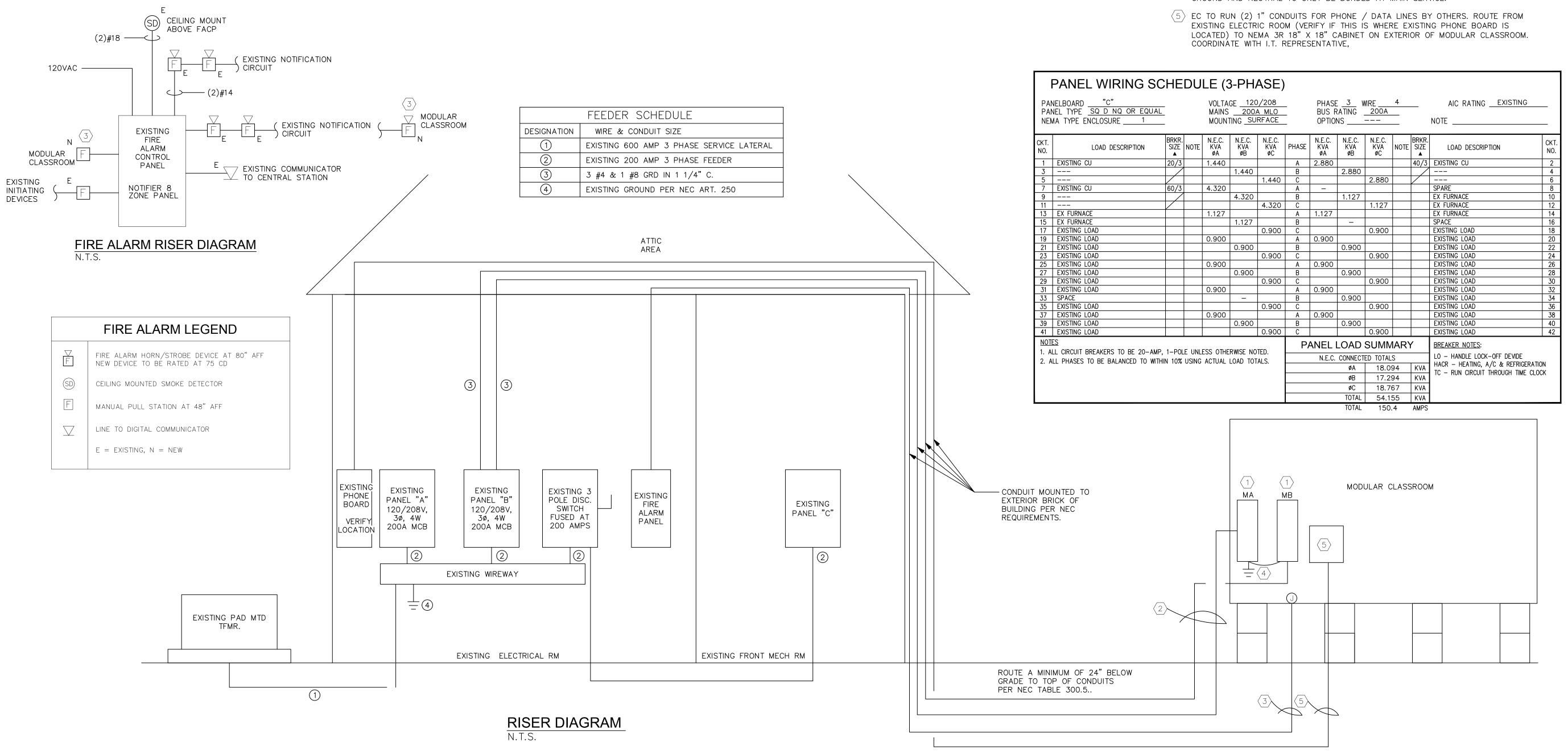
| F            | PANEL WIRING SC  | HEI            | DU     | LE (3               | B-PH/                          | ASE)                |                   |                     |                     |                     |                                     |                                   |                             |             |
|--------------|--|----------------|--------|---------------------|--------------------------------|---------------------|-------------------|---------------------|---------------------|---------------------|-------------------------------------|-----------------------------------|-----------------------------|-------------|
| PAN          | IELBOARD "A"<br>IEL TYPE <u>G.E. A SERIES</u>                        | _              |        | VOLTA               | GE 120                         | /208                | _                 | PHASE               | <u>3</u> W          | /IRE                | 4                                   |                                   | AIC RATINGEXISTING          |             |
| NEM          | NEL TYPE G.E. A SERIES  MA TYPE ENCLOSURE1                           | <b>-</b>       |        | MAINS<br>MOUNT      | <u>2007</u><br>ING <u>S</u> UI | A MCB<br>RFACE      | <del>-</del><br>- | BUS R<br>OPTIO      | RATING .<br>NS      | 200A<br>            | NOTE                                |                                   |                             |             |
| CKT.<br>NO.  | LOAD DESCRIPTION   | BRKR.<br>SIZE  | NOTE   | N.E.C.<br>KVA<br>ØA | N.E.C.<br>KVA<br>ØB            | N.E.C.<br>KVA<br>ØC | PHASE             | N.E.C.<br>KVA<br>ØA | N.E.C.<br>KVA<br>ØB | N.E.C.<br>KVA<br>ØC | NOTE                                | BRKR.<br>SIZE<br>▲                | LOAD DESCRIPTION            | CKT.<br>NO. |
| 1            | EXISTING CU  | 60/3           |        | 4.320               |                                |                     | Α                 | 4.320               |                     |                     |                                     | 60/3                              | EXISTING CU                 | 2           |
| 3            |  | $\perp \Delta$ |        |                     | 4.320                          |                     | В                 |                     | 4.320               |                     |                                     |                                   |                             | 4           |
| 5            |  | $\angle$       |        |                     |                                | 4.320               | С                 |                     |                     | 4.320               |                                     |                                   |                             | 6           |
| 7            | EX FURNACE 5 B   |                |        | 1.127               |                                |                     | Α                 | 1.127               |                     |                     |                                     |                                   | EX FURNACE 5 A              | 8           |
| 9            | EX WATER COOLER  |                |        |                     | 0.360                          |                     | В                 |                     | 0.360               |                     |                                     |                                   | EX WATER COOLER             | 10          |
| 11           | EX SPACE   |                |        |                     |                                |                     | С                 |                     |                     | 0.300               |                                     |                                   | EX REMOTE ANN.              | 12          |
| 13           | EX RECEPTS   |                |        | 0.900               |                                |                     | Α                 | 0.720               |                     |                     |                                     |                                   | EX FIRE ALARM               | 14          |
| 15           | EX RECEPTS   |                |        |                     | 0.900                          |                     | В                 |                     | 0.900               |                     |                                     |                                   | EX RECEPTS                  | 16          |
| 17           | EX SNOWMELT  |                |        |                     |                                | 0.360               | С                 |                     |                     | 0.900               |                                     |                                   | EX RECEPTS                  | 18          |
| 19           | EX RECEPTS   |                |        | 0.900               |                                |                     | A                 | 0.900               |                     |                     |                                     |                                   | EX LIGHTS                   | 20          |
| 21           | EX LIGHTS  |                |        |                     | 0.900                          |                     | В                 |                     | 0.900               |                     |                                     |                                   | EX RECEPTS                  | 22          |
| 23           | EX RECEPTS   |                |        |                     |                                | 0.900               | С                 |                     |                     | 0.900               |                                     |                                   | EX LIGHTS                   | 24          |
| 25           | EX CORRIDOR LIGHTS (E)   |                |        | 0.900               |                                |                     | A                 | 0.900               |                     |                     |                                     |                                   | EX LIGHTS                   | 26          |
| 27           | EX LIGHTING  |                |        |                     | 0.900                          |                     | В                 |                     | 0.900               |                     |                                     |                                   | EX LIGHTS                   | 28          |
| 29           | EX R.R. LIGHTING   |                |        |                     |                                | 0.900               | С                 |                     |                     | 0.900               |                                     |                                   | EX RECEPTS                  | 30          |
| 31           | SPACE  |                |        | _                   |                                |                     | Α                 |                     |                     |                     |                                     |                                   | SPARE                       | 32          |
| 33           | SPARE  |                |        |                     | _                              |                     | В                 |                     | _                   |                     |                                     |                                   | SPARE                       | 34          |
| 35           | EX NIGHT LTS (E)   |                |        |                     |                                | 0.900               | С                 |                     |                     | 1.872               |                                     | 30/2                              |                             | 36          |
| 37           | SPACE  | 1              |        | _                   |                                |                     | A                 | 1.872               |                     |                     |                                     |                                   |                             | 38          |
|              | EX SNOWMELT  | 30/2           |        |                     | 1.872                          |                     | В                 |                     | 1.872               |                     |                                     | 30/2                              |                             | 40          |
| 41           |  |                |        |                     |                                | 1.872               | С                 |                     |                     | 1.872               |                                     |                                   |                             | 42          |
| NOTE<br>1 AI | <u>:S</u><br>LL CIRCUIT BREAKERS TO BE 20—AMP.                       | 1-P0LF         | - UNII | FSS OTHE            | RWISE NO                       | TFD                 | P/                | ANEL I              | LOAD                | SUMM                | 1ARY                                | ′                                 | BREAKER NOTES:              |             |
|              |  |                |        |                     |                                |                     |                   | N.E.C.              | CONNECT             | ED TOTAL            | S                                   |                                   | LO — HANDLE LOCK—OFF DEVIDE |             |
| Z. A         | 2. ALL PHASES TO BE BALANCED TO WITHIN 10% USING ACTUAL LOAD TOTALS. |                |        |                     |                                |                     |                   |                     |                     | KVA                 | HACR — HEATING, A/C & REFRIGERATION |                                   |                             |             |
|              |  |                |        |                     |                                |                     | øB 18.504         |                     |                     |                     | KVA                                 | TC - RUN CIRCUIT THROUGH TIME CLO | CK                          |             |
|              |  |                |        |                     |                                |                     |                   |                     | øC                  | 20.3                |                                     | KVA                               |                             |             |
|              |  |                |        |                     |                                |                     |                   |                     |                     |                     |                                     |                                   |                             |             |
|              |  |                |        |                     |                                |                     |                   |                     | TOTAL               | 56.8                |                                     | KVA                               |                             |             |
|              |  |                |        |                     |                                |                     |                   |                     | TOTAL               | 157                 | .8                                  | AMPS                              |                             |             |

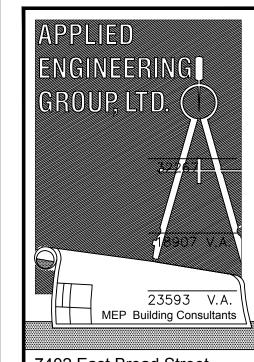
| NO. LUAU DESCRIPTION   SAZE NOTE   WA   WA   WA   WA   WA   WA   WA   W  |  | PANEL WIRING SC   | CHE            | DU   | LE (3 | 3-PH/          | ASE)  |           |                |          |          |                                   |       |                             |             |
|--|--|-------------------|----------------|------|-------|----------------|-------|-----------|----------------|----------|----------|-----------------------------------|-------|-----------------------------|-------------|
| CKT. LOAD DESCRIPTION   SZE   NOTE   N.E.C.   N.E.C.   N.E.C.   N.E.C.   KVA   | PANELBOARD "B" VOLTAGE 120/208 PANEL TYPE G.E. A SERIES MAINS 200A MCB |                   |                |      |       |                |       | -<br>-    | PHASE<br>BUS R | RATING . | 200A     |                                   |       |                             |             |
| LOAD DESCRIPTION   SIZE   NOTE   KYA   K   | NEN  | MA TYPE ENCLOSURE | _              |      | MOUN  | IING <u>50</u> | REACE | _         | OP HOI         | NS       |          |                                   |       | NOTE                        |             |
| 3  | CKT.<br>NO.  | LOAD DESCRIPTION  | SIZE           | NOTE | KVA   | KVA            | KVA   | PHASE     | KVA            | KVA      | KVA      | NOTE                              | SIZE  |                             | CKT.<br>NO. |
| S  | 1  | EXISTING CU       | 60/3           |      | 4.320 |                |       | Α         | 2.250          |          |          |                                   | 30/2  | EX WATER HEATER             | 2           |
| 7   EX WATER COLER   0.360   A 0.360   EX POINT WATER CIRC PUMP   E  |  |                   | $\perp \angle$ |      |       | 4.320          |       |           |                | 2.250    |          |                                   | _     |                             | 4           |
| 9   EX POINT USE WIR HTR   30/2   2.250   B   1.127   EX FURNACE 4 A   11  |  |                   | $\swarrow$     |      |       |                | 4.320 |           |                |          | 1.127    |                                   |       |                             | 6           |
| 11   |  |                   | <b>_</b>       |      | 0.360 |                |       |           | 0.360          |          |          |                                   |       |                             | 8           |
| 13   EX RECEPTS   0.900   B 0.900   EX RECEPTS   1.     15   EX RECEPTS   0.900   B 0.900   EX RECEPTS   1.     17   EX RECEPTS   0.900   EX RECEPTS   1.     19   EX RECEPTS   0.900   B 0.900   EX RECEPTS   1.     19   EX RECEPTS   0.900   B 0.900   EX RECEPTS   2.     21   EX RECEPTS   0.900   B 0.900   EX RECEPTS   2.     22   EX RECEPTS   0.900   EX LIGHTING   2.     23   EX RECEPTS   0.900   EX LIGHTING   2.     25   EX RECEPTS   0.900   B 0.900   EX LIGHTING   2.     27   EX LIGHTING   0.900   B 0.900   EX LIGHTING   2.     29   EX LIGHTING   0.900   EX LIGHTING   2.     29   EX LIGHTING   0.900   EX LIGHTING   2.     31   EX CORRIDOR LTS (E)   0.900   EX LIGHTING   3.     32   EX CORRIDOR LTS (E)   0.900   B 0.900   EX LIGHTING   3.     33   EX CORRIDOR LTS (E)   0.900   B 0.900   EX LIGHTING   3.     34   EX CORRIDOR LTS (E)   0.900   EX LIGHTING   3.     35   EX LIGHTING   0.900   EX LIGHTING   3.     36   EX LIGHTING   0.900   EX LIGHTING   3.     37   EX LIGHTING   0.900   EX LIGHTING   3.     38   PANEL MA   70/2   2.500   B   5.250   70/2   PANEL MB   4.     41     1.900   C   FANEL LOAD SUMMARY     NICHTS   NICHTLIGHT OR SPARE CKT 19 AND MOVE EXISTING   MB 24.897   KVA     MA & MB.   MB   C.000   MB 24.897   KVA     MA & MB   MB   C.000          |  |                   | 30/2           |      |       | 2.250          |       |           |                | 1.127    |          |                                   |       |                             | 10          |
| 15   EX RECEPTS  |  |                   | -              |      |       |                | 2.250 |           |                |          | 0.900    |                                   |       |                             | 12          |
| 17   EX RECEPTS   0.900   C   0.900   EX RECEPTS   19   EX RECEPTS   0.900   B   0.900   EX RECEPTS   22   22   EX RECEPTS   0.900   C   0.900   EX RECEPTS   22   23   EX RECEPTS   0.900   C   0.900   EX LIGHTING   22   25   EX RECEPTS   0.900   B   0.900   EX LIGHTING   22   27   EX LIGHTING   0.900   EX LIGHTING   22   27   EX LIGHTING   0.900   EX LIGHTING   22   29   EX LIGHTING   0.900   EX LIGHTING   23   29   EX LIGHTING   24   25   EX CORRIDOR LTS (E)   0.900   EX LIGHTING   EX   |  |                   |                |      | 0.900 |                |       |           | 0.900          |          |          |                                   |       |                             | 14          |
| 19   EX RECEPTS   0.900   B 0.900   EX RECEPTS   2 2   2   2   2   2   2   2   2   2   |  |                   |                |      |       | 0.900          |       |           |                | 0.900    |          |                                   |       |                             | 16          |
| 21   EX RECEPTS  |  |                   | -              |      | 0.000 |                | 0.900 |           | 0.000          |          | 0.900    |                                   |       |                             | 18          |
| 23   EX RECEPTS  |  |                   | -              |      | 0.900 | 0.000          |       |           | 0.900          | 0.000    |          |                                   |       |                             | 20          |
| 25   EX RECEPTS   0.900   A 0.900   EX LIGHTING   2   27   EX LIGHTING   2   29   EX LIGHTING   0.900   EX LIGHTING   2   20   EX LIGHTING   2   20   EX LIGHTING   2   20   EX LIGHTING   3   31   EX CORRIDOR LTS (E)   0.900   EX LIGHTING   3   35   EX LIGHTING   0.900   EX LIGHTING   3   35   EX LIGHTING   0.900   EX LIGHTING   3   37   EX LIGHTING   0.900   EX LIGHTING   3   37   EX LIGHTING   0.900   EX LIGHTING   3   39   PANEL MA   70/2   2.500   B   5.250   70/2   PANEL MB   4   41   |  |                   | -              |      |       | 0.900          | 0.000 |           |                | 0.900    | 0.000    |                                   |       |                             | 22          |
| 27   EX LIGHTING   0.900   B 0.900   EX LIGHTING   2   29   EX LIGHTING   0.900   C   0.900   EX LIGHTING   3   31   EX CORRIDOR LTS (E)   0.900   A 0.900   EX LIGHTING   MIGHTLIGHT CKT 40 TO SPARE CKT 38. PROVIDE NEW BREAKERS FOR PANELS     A  |  |                   | -              |      | 0.000 |                | 0.900 |           | 0.000          |          | 0.900    |                                   |       |                             | 24          |
| 29   EX LIGHTING   |  |                   | -              |      | 0.900 | 0.000          |       |           | 0.900          | 0.000    |          |                                   |       |                             | 26          |
| 31   EX CORRIDOR LTS (E)   0.900   A 0.900   EX LIGHTING TIME CLOCK   3   33   EX CORRIDOR LTS (E)   0.900   B   0.900   EX LIGHTING   3   35   EX LIGHTING   0.900   C   0.900   EX LIGHTING   3   37   EX LIGHTING   0.900   A 0.900   EX LIGHTING   3   39   PANEL MA   70/2   2.500   B   5.250   70/2   PANEL MB   4   4     4   1.900   C   6.250     4   4   1.900   C   6.250     4   4   1.900   C   6.250   C   6.               |  |                   | -              |      |       | 0.900          | 0.000 |           |                | 0.900    | 0.000    |                                   |       |                             | 28          |
| 33   EX CORRIDOR LTS (E)   |  |                   | -              |      | 0.000 |                | 0.900 |           | 0.000          |          | 0.900    |                                   |       |                             |             |
| 35   EX LIGHTING   0.900   C   0.900   EX LIGHTING   3   37   EX LIGHTING   0.900   A 0.900   EX NIGHT LTS (E)   3   39   PANEL MA   70/2   2.500   B   5.250   70/2   PANEL MB   4   41   | ٠.   |                   | -              |      | 0.900 | 0.000          |       |           | 0.900          | 0.000    |          |                                   |       |                             |             |
| 37   EX LIGHTING   |  |                   | -              |      |       | 0.900          | 0.000 |           |                | 0.900    | 0.000    |                                   |       |                             | 34          |
| 39 PANEL MA  41  NOTES  1. ALL CIRCUIT BREAKERS TO BE 20-AMP, 1-POLE UNLESS OTHERWISE NOTED. 2. ALL PHASES TO BE BALANCED TO WITHIN 10% USING ACTUAL LOAD TOTALS. 3. EC TO MOVE EXISTING RECEPT CKT 39 TO SPARE CKT 19 AND MOVE EXISTING NIGHTLIGHT CKT 40 TO SPARE CKT 38. PROVIDE NEW BREAKERS FOR PANELS MA & MB.  B  |  |                   | -              |      | 0.000 |                | 0.900 |           | 0.000          |          | 0.900    |                                   |       |                             |             |
| NOTES  1. ALL CIRCUIT BREAKERS TO BE 20-AMP, 1-POLE UNLESS OTHERWISE NOTED. 2. ALL PHASES TO BE BALANCED TO WITHIN 10% USING ACTUAL LOAD TOTALS. 3. EC TO MOVE EXISTING RECEPT CKT 39 TO SPARE CKT 19 AND MOVE EXISTING NIGHTLIGHT CKT 40 TO SPARE CKT 38. PROVIDE NEW BREAKERS FOR PANELS MA & MB.  PANEL LOAD SUMMARY  N.E.C. CONNECTED TOTALS  MA 16.290 KVA  MB 24.897 KVA  MC 23.947 KVA  MC 23.947 KVA  TOTAL 65.134 KVA   |  |                   | 70 /2          |      | 0.900 | 2.500          |       |           | 0.900          | 5 250    |          |                                   | 70 /2 |                             |             |
| NOTES  1. ALL CIRCUIT BREAKERS TO BE 20-AMP, 1-POLE UNLESS OTHERWISE NOTED. 2. ALL PHASES TO BE BALANCED TO WITHIN 10% USING ACTUAL LOAD TOTALS.  3. EC TO MOVE EXISTING RECEPT CKT 39 TO SPARE CKT 19 AND MOVE EXISTING NIGHTLIGHT CKT 40 TO SPARE CKT 38. PROVIDE NEW BREAKERS FOR PANELS MA & MB.  PANEL LOAD SUMMARY  N.E.C. CONNECTED TOTALS  MA 16.290 KVA  MB 24.897 KVA  MC 23.947 KVA  MC 23.947 KVA  TOTAL 65.134 KVA  BREAKER NOTES:  LO - HANDLE LOCK-OFF DEVIDE  HACR - HEATING, A/C & REFRIGERATION  TC - RUN CIRCUIT THROUGH TIME CLOCK   |  |                   | 1/0/2          |      |       | 2.500          | 1 000 |           |                | 5.250    | 6.050    |                                   | 70/2  |                             | 42          |
| 1. ALL CIRCUIT BREAKERS TO BE 20-AMP, 1-POLE UNLESS OTHERWISE NOTED. 2. ALL PHASES TO BE BALANCED TO WITHIN 10% USING ACTUAL LOAD TOTALS.  3. EC TO MOVE EXISTING RECEPT CKT 39 TO SPARE CKT 19 AND MOVE EXISTING NIGHTLIGHT CKT 40 TO SPARE CKT 38. PROVIDE NEW BREAKERS FOR PANELS MA & MB.    MA & MB.   MB.   MB.   MC   MB   MB.   MC   MB   MC   MB   MC   MB   MC   MB   MC   MB   MC   MC  |  |                   |                |      |       |                | 1.900 | <u> </u>  |                |          | 6.230    |                                   |       |                             | 42          |
| 2. ALL PHASES TO BE BALANCED TO WITHIN 10% USING ACTUAL LOAD TOTALS.  3. EC TO MOVE EXISTING RECEPT CKT 39 TO SPARE CKT 19 AND MOVE EXISTING NIGHTLIGHT CKT 40 TO SPARE CKT 38. PROVIDE NEW BREAKERS FOR PANELS MA & MB.  N.E.C. CONNECTED TOTALS  MA 16.290 KVA  MB 24.897 KVA  MC 23.947 KVA  TOTAL 65.134 KVA   |  |                   |                |      |       |                |       | l P/      | ANEL I         | LOAD     | SUMM     | IARY                              | /     | BREAKER NOTES:              |             |
| 2. ALL PHASES TO BE BALANCED TO WITHIN 10% USING ACTUAL LOAD TOTALS.  3. EC TO MOVE EXISTING RECEPT CKT 39 TO SPARE CKT 19 AND MOVE EXISTING NIGHTLICHT CKT 40 TO SPARE CKT 38. PROVIDE NEW BREAKERS FOR PANELS MA & MB.  4. MA & MB.  4. MACR — HEATING, A/C & REFRIGERATION TC — RUN CIRCUIT THROUGH TIME CLOCK TOTAL    4. MACR — HEATING, A/C & REFRIGERATION TC — RUN CIRCUIT THROUGH TIME CLOCK TOTAL    5. EC TO MOVE EXISTING RECEPT CKT 39 TO SPARE CKT 19 AND MOVE EXISTING MB    6. MACR — HEATING, A/C & REFRIGERATION TC — RUN CIRCUIT THROUGH TIME CLOCK TOTAL    6. MACR — HEATING, A/C & REFRIGERATION TC — RUN CIRCUIT THROUGH TIME CLOCK TOTAL    6. MACR — HEATING, A/C & REFRIGERATION TC — RUN CIRCUIT THROUGH TIME CLOCK TOTAL    6. MACR — HEATING, A/C & REFRIGERATION TC — RUN CIRCUIT THROUGH TIME CLOCK TOTAL    6. MACR — HEATING, A/C & REFRIGERATION TC — RUN CIRCUIT THROUGH TIME CLOCK TOTAL    6. MACR — HEATING, A/C & REFRIGERATION TC — RUN CIRCUIT THROUGH TIME CLOCK TOTAL    6. MACR — HEATING, A/C & REFRIGERATION TC — RUN CIRCUIT THROUGH TIME CLOCK TOTAL    6. MACR — HEATING, A/C & REFRIGERATION TC — RUN CIRCUIT THROUGH TIME CLOCK TOTAL    6. MACR — HEATING, A/C & REFRIGERATION TC — RUN CIRCUIT THROUGH TIME CLOCK TOTAL    6. MACR — HEATING, A/C & REFRIGERATION TC — RUN CIRCUIT THROUGH TIME CLOCK TOTAL    6. MACR — HEATING, A/C & REFRIGERATION TC — RUN CIRCUIT THROUGH TIME CLOCK TOTAL    6. MACR — HEATING, A/C & REFRIGERATION TC — RUN CIRCUIT THROUGH TIME CLOCK TOTAL    6. MACR — HEATING, A/C & REFRIGERATION TC — RUN CIRCUIT THROUGH TIME CLOCK TOTAL    6. MACR — MACR — HEATING, A/C & REFRIGERATION TC — RUN CIRCUIT THROUGH TIME CLOCK TOTAL    6. MACR — |  |                   |                |      |       |                |       |           | NEC            | CONNECT  | ED TOTAL |                                   |       | LO - HANDLE LOCK-OFF DEVIDE |             |
| 3. EC TO MOVE EXISTING RECEPT CKT 39 TO SPARE CKT 19 AND MOVE EXISTING NIGHTLIGHT CKT 40 TO SPARE CKT 38. PROVIDE NEW BREAKERS FOR PANELS MA & MB.  TOTAL 65.134 KVA  TOTAL 65.134 KVA   | 2. ALL PHASES TO BE BALANCED TO WITHIN 10% USING ACTUAL LOAD TOTALS.   |                   |                |      |       |                |       |           |                |          | 10.11    | HIACD HEATING A/C & DEEDICEDATION |       |                             |             |
| NIGHTLIGHT CKT 40 TO SPARE CKT 38. PROVIDE NEW BREAKERS FOR PANELS  MA & MB.  MB 24.897 KVA  MC 23.947 KVA  TOTAL 65.134 KVA   | 3. EC TO MOVE EXISTING RECEPT CKT 39 TO SPARE CKT 19 AND MOVE EXISTING |                   |                |      |       |                |       |           |                |          |          | TC - RUN CIRCUIT THROUGH TIME C   |       |                             |             |
| TOTAL 65.134 KVA   |  |                   |                |      |       |                |       |           |                | 97       | KVA      | 4                                 |       |                             |             |
|  | LN   | MA & MB.          |                |      |       |                |       | øC 23.947 |                |          | 47       | KVA                               |       |                             |             |
|  |  |                   |                |      |       |                |       |           |                | TOTAL    | 65.13    | 34                                | KVA   |                             |             |
|  |  |                   |                |      |       |                |       |           |                | TOTAL    |          |                                   | AMPS  |                             |             |



#### **CODED NOTES**

- 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.
- 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.





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

HRISTIAN SCHOOL
Hamilton Road
a, OH 43230

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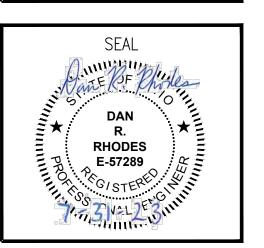
SHEPHE

# REVISIONS NO. DESCRIPTION DATE

DATE: 7-31-23

SCALE: AS NOTED

JOB #: 23238



SHEET TITLE

RISER AND
LOAD
CALCULATIONS

SHEET NO.



October 23, 2023

City of Gahanna Department of Planning

Atta: Kally Micks

Kelly Wicker; Planning and Zoning Coordinator

200 S. Hamilton Rd. Gahanna, Ohio 43230 Ph.: (614) 277-3075

Re.:

Design review / C of A 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 Design review / C of A 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 label the distance from the modular structure to the property lines for the parcel it is located on, not the adjacent parcel to the south. Please also label the setback from this property line.

RESPONSE: Located on the Civil Drawings Cover Sheet and the C1.1 sheet is the requested setback information for the parcel as well as dimensions from the modular unit to the property lines of the parcel it is located on (025-000406). The distance from the modular unit to the west property line of that parcel is approximately 1029'-7". The distance to the south property line of that parcel is approximately 30'-10". The required setbacks for this property are 40'-0" for the rear (west) property line and 25'-0" for the side (south) property line (abutting a non-residential property). It



should be noted that the existing adjacent school building is traversing the property line for that parcel.

2. Per application requirements, please provide color elevations and/or renderings.

RESPONSE: Included with this resubmission is a supplemental 3D rendering of the modular unit based upon the pictures we received from the owner of the unit they are purchasing.

#### Item 3. Engineering Project Administrator (614) 342-4056.

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: Response to these comments have been covered in the letter for the Final Development Plan submitted to the Department of Planning.

#### Item 4. Engineering Project Administrator (614) 342-4056.

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

RESPONSE: Response to these comments have been covered in the letter for the Final Development Plan submitted to the Department of Planning.

#### Item 5. Parks (614) 342-4261

5. No comments per Julie Predieri

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

#### Item 6. **Building (614) 342-4010**

6. No Comments were received. Building Permits will be required for the project please contact the Chief Building Official, Ken Fultz at 614-342-4013 with any questions you may have.



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

We appreciate your time and effort towards permitting this project.

Sincerely,

Jeffrey T. Hutcheson **Project Architect** The McKnight Group



November 17, 2023

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

RE: Project 425 S Hamilton Rd Design Review/C of A

Dear McKnight and Hosterman Architects:

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

#### **Engineering Project Administrator (614) 342-4056**

1. No comments. See FDP for comments.

#### Transportation & Mobility Engineer (614) 342-4050

2. No comments. See FDP for comments.

#### Parks (614) 342-4261

3. No Comments per Julie Predieri

#### **Building (614) 342-4010**

4. No Comments were received. Building Permits wil be required for the project please contact the Chief Building Official, Ken Fultz at 614-342-4013 with any questions you may have.

#### Fire District (welshp@mifflin-oh.gov)

5. The fire division has no objection or additional comments

#### Planning (614) 342-4025

6. 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.

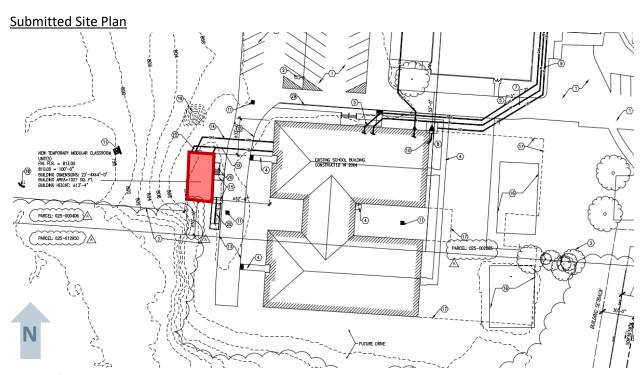


#### **Staff Comments**

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





Respectfully Submitted By: Maddie Capka Planner