Addendum 01

DOCUMENT 00 91 00

DATE: May 11, 2026

PROJECT: Lakota LSD Bus Maintenance Building Addition and Bus Storage Building
5186 County Road 13
Kansas, OH 44841

PROJECT #: 25108.00

OWNER: Lakota Local School District
Contact: Chad Coffman
5200 County Road 13
Kansas, OH 44841

ARCHITECT: Garmann Miller
38 South Lincoln Drive
P.O. Box 71
Minster, Ohio 45865

TO: Prospective Bidders

This addendum form is a part of the Contract Documents and modifies the Construction Documents dated April 24, 2026, with amendments and additions noted below.

Acknowledge receipt of this Addendum on the Bid Form. Failure to do so may disqualify the Bidder.

This addendum consists of 3 pages, 13 specification sections, and 14 re-issued drawing sheets.

FOR INFORMATION ONLY

1. Pre-bid meeting minutes and the pre-bid meeting sign-in sheet are attached.
2. No pavement overlay fabric or pavement sealcoating are required as part of this project.

CHANGES TO THE PROJECT MANUAL

1. 00 41 13 – Bid Form
   a. Updated to include Unit Cost.
2. 01 22 00 – Unit Prices
   a. Add section in its entirety.

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3. 01 21 00 – Allowances
    a. Change item 1.05. A. Contingency Allowance from $100,000.00 to $50,000.00.
4. 13 34 18 – Post Frame Building System
    a. Add Stillwater Metal LLC as an acceptable manufacturer.
5. 22 13 19 – Sanitary Waste Piping Specialties, Article 2.01 Trench drains;
    a. Add Paragraph A Polymer Concrete Trench Drains.
    b. Paragraph B High-Density Polyethylene (HDPE) Trech Drains
        i. Subparagraph 1 Manufacturers: add more manufacturers.
        ii. Subparagraph 2: Add bottom slope.
        iii. Add Subparagraph 3: Length on drain on drawing schedule.
        iv. Add Subparagraph 4: Provide 2 shovels made for this specific trench drain.
        v. Grate Support Frame: Galvanized or stainless steel.
        vi. Subparagraph 4 Grate; add Material: galvanized ductal iron and Style: bar grate.
6. Add the following sections to the project manual:
    a. 01 11 01 – Summary of Work - Underground Storage Tank Work
    b. 01 33 01 – Submittal Procedures - Underground Storage Tank Work
    c. 01 41 01 – Regulatory Requirements - Underground Storage Tank Work
    d. 01 45 23 – Testing Laboratory and Inspection Services - Underground Storage Tank Work
    e. 02 61 01 – Petroleum Contaminated Soil
    f. 02 65 00 – Underground Storage Tank Component Removal
    g. 10 44 16 – Fire Extinguishers
    h. 33 52 01 – Liquid Fuel Distribution - General Piping Requirements
    i. 33 56 13 – Fuel Storage Tank Components
7. 00 01 10 – Table of Contents
    a. Change verbiage to include added specification sections, listed above.

CHANGES TO THE DRAWINGS

1. G1.0 - First Floor Code Plan
    a. Add rating and UL numbers for rated walls.
    b. Update code information.
2. A0.1 - General Notes, Wall Types, Abbreviations, and Symbols Legend
    a. Update UL numbers for rated walls.
3. A1.1 - First Floor Plans and Details
    a. Add missing tags to fire extinguishers.
4. A2.1 - Building Elevations: Building Elevation 4/A2.1.
    a. Add keynote 09 91 13.B to existing overhead doors.
5. A4.2 - Wall Section Details
    a. Update UL numbers for rated wall assemblies.
6. A6.1 - Door Schedule and Details
    a. Change fire rating for door B102i from 90 min to 180 min.
7. F1.1 - Fuel System Modification & Details
    a. Add sheet in its entirety.
8. LD1.1 - Site Demolition Plan
    a. Revise keynote R1 to read “NOT USED”.

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   b. Remove portion of concrete near the existing fuel dispenser, marked by keynote D2.
   c. Labeled the existing generator.
   d. Add note "Note: See sheet F1.1 for work including fuel tanks, dispenser, sumps, bollards, and related piping.".
9. L1.1 - Site Layout and Materials Plan
   a. Revise keynote R1 to read "NOT USED".
   b. Add note "Note: See sheet F1.1 for work including fuel tanks, dispenser, sumps, bollards, and related piping.".
   c. Add new standard duty concrete pavement near the existing fuel dispenser, marked by keynote S4.
   d. Revise quantity of fuel dispenser bollards to 8, marked by keynote S11.
10. ED1.1 - Electrical Site Demolition Plan
   a. Modify keynote 11 to state the emergency stop button shall be connected to new fuel dispenser.
   b. Added keynote 15 to refer to sheet F1.1 for additional fuel system modifications and requirements.
11. E2.1 - Site Electrical Plan
   a. Modify keynote 3 to state the emergency stop button shall be connected to new fuel dispenser.
   b. Revised the location of the relocated fuel pump.
   c. Added keynote 15 to refer to sheet F1.1 for additional fuel system modifications and requirements.
   d. Add sump sensor location to drawings.
   e. Revised keynote 8 to state conduit requirements matching sheet F1.1.
12. E3.1 - Systems Plan
   a. Remove access control from (2) doors in Breezeway B103.
13. E5.1 - Power Plans
   a. Remove power for access control from (2) doors in Breezeway B103.
14. E6.1 - Electrical One-Line Diagram
   a. Added additional lighting manufacturer information.

ATTACHMENTS

The following attachments are included and are part of this addendum:

Pre-bid meeting minutes and the pre-bid meeting sign-in sheet.

Specification Section: 00 41 13, 01 22 00, 22 13 19, 01 11 01, 01 33 01, 01 41 01, 01 45 23, 02 61 01, 02 65 00, 10 44 16, 33 52 01, 33 56 13, and 00 01 10

Drawing Sheet: G1.0, A0.1, A1.1, A2.1, A4.2, A6.1, F1.1, LD1.1, L1.1, ED1.1, E2.1, E3.1, E5.1, and E6.1

END OF ADDENDUM

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Pre-Bid Meeting

Project Name	Lakota Local School – Bus Building Addition	GM Project No.	25108.00
Meeting Date	05/07/2026	Meeting Location	Lakota Local Schools District Office

Outline

1. Attendees: Sign in Sheet

2. Introductions

3. Project overview
   a. Review of scope of work (this is not to be considered the full scope)
   b. General Construction: PEMB single bay addition to the existing bus building with a pole framed bus storage building connected to the PEMB with a breezeway constructed of typical dimensional wood framing. Project also includes the relocation of an existing fuel pump and site paving.
   c. Plans have been submitted to the Sandusky County Building Department for plan approval.

4. Bidding
   a. Date: Friday, May 15, 2026 at 9:00 am
   b. Bids will be received at the school's district office until 9:00.00 am on May 15, 2026 at which time they will be opened and read aloud.
   c. Tax exempt project
   d. Builders risk is furnished by the owner

5. Addendums
   a. Addendum #1: Will be issued on Monday, May 11, 2026

6. Bid Categories
   a. Contract A – General Construction

7. Contingency amounts to be included in bid:
   a. General Construction - $50,000
8. Unit Price for Contaminated Soil
   a. A spec section will be added for this in Addendum #1
   b. Bid Form will be updated in Addendum #1

9. Contracts will be administered by Garmann Miller
   a. All questions and correspondence to go through the A-E office
   b. All RFIs through A-E office
   c. Pay applications to A-E office

10. Schedule.
    a. Tentative award date – Soon after bids are received
    b. Start of Construction – June 1, 2026
    c. Completion Date – November 20, 2026

11. General Conditions
    a. General Contractor:
        i. Responsible for construction schedule and general supervision
        ii. Submit preliminary schedule 10 days after notice to proceed, coordinate this closely with owner to allow for regularly scheduled events and services.
        iii. Responsible for administering job meetings.
        iv. Temporary utilities
        v. Temporary telecommunications services
        vi. Temporary sanitary facilities
        vii. Temporary controls: barriers, enclosures, and fencing
        viii. Waste removal
        ix. Job superintendent on site available via cell phone

12. Temporary Electricity
    a. Contractor may use electricity from the existing building. If more is needed than what the owner has available, then the contractor is responsible for providing that.

13. Temporary Water
    a. Contractor may use water from the existing building. If more is needed than what the owner has available, then the contractor is responsible for providing that.

14. Substitution request are to be received 7 days prior to bid.

15. Correspondence
    a. Correspondence to run through the Architect's office
        i. Project Manager: Ryan Heitkamp rheitkamp@creategm.com
        ii. Construction Admin: Jason Fleming jfleming@creategm.com

16. Drawings available at DC Reprographics, 1254 Courtland Ave, Columbus, Ohio 43201; www.DCplanroom.com; Phone 614-297-1200. Each Bidder is responsible for shipping cost.

17. Contractor questions/comments

18. Owner questions/comments

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Sign-in Sheet

Project Name: Lakota Local Schools Bus Building Addition | GM Project No.: 25108.00
Meeting Location: Lakota Local Schools District Office | Meeting Date: 05/07/2026

Purpose: Pre-Bid Meeting

Attendees

Name	Mike Bond	Phone	419-595-8486
Business/Title	Alvada Construction / Estimator		
Email	estimating@alvadaconstruction.com		
Name	Joe Harvey	Phone	419-967-0373
Business/Title	Lakota Local Schools / Maintenance Supervisor		
Email	jharvey@lakotaschools.org		
Name	Chad Kirian	Phone	419-436-1538
Business/Title	Zender Electric, LLC		
Email	ckirian@zenderelectric.com		
Name	Chris Kerschner	Phone	419-447-0165
Business/Title	Clouse Electric		
Email	ckerschner@clouseellectric.com		
Name	Andrew Ronski	Phone	419-447-0165
Business/Title	Clouse Electric		
Email	dronski@clouseellectric.com		
Name	Rich Southward	Phone	419-889-1732
Business/Title	PTG / Estimator		
Email	rich.southward@positivetradesgroup.com		
Name	Chad Coffman	Phone	419-986-6650
Business/Title	Lakota Local Schools / Superintendent		
Email	ccoffman@lakotaschools.org		
Name	Chase Naugle	Phone	419-957-4869
Business/Title	Helms Construction, Inc. / Estimator		
Email	cnaugle@helmsmasons.com		

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Name	Tim Kern	Phone	419-986-6658
Business/Title	Lakota Local Schools / Transportation Supervisor		
Email	tkern@lakotaschools.org		
Name	Shawn Valenti	Phone	419-986-6658
Business/Title	Lakota Local Schools / Assistant Transportation Supervisor		
Email	svalenti@lakotaschools.org		
Name	Jason Fleming	Phone	419-628-4240
Business/Title	Garmann Miller / Construction Administrator		
Email	jfleming@creategm.com		
Name	Ryan Heitkamp	Phone	419-628-4240
Business/Title	Garmann Miller / Project Manager		
Email	rheitkamp@creategm.com		
Name		Phone	
Business/Title			
Email			
Name		Phone	
Business/Title			
Email			
Name		Phone	
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Name		Phone	
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Business/Title			
Email			
Name		Phone	
Business/Title			
Email			

SECTION 00 41 13 - BID FORM

THE PROJECT AND THE PARTIES

TO:

Lakota Local Schools
5200 County Road 13,
Kansas, Ohio44841

FOR:

Project: 25108.00 Lakota Local Schools Bus Building Addition

Project Number: 25108.00
5186 County Road 13
Kansas, Ohio44841

DATE: _____ (Bidder to enter date)

SUBMITTED BY:

Bidder's Full Name: _____

Address: _____

City, State, Zip: _____

Telephone:_____

Fax No.: _____

E-mail: _____

OFFER

Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Contract Documents prepared by Garmann/Miller & Associates Inc. for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:

Item 1 - Contract A, General Construction - Base Bid:

_____

_____ dollars

All Cash and Contingency Allowances described in Section 01 21 00 are included in the Bid Sum.

We have included the Bid Bond or security deposit as required by the Advertisement, Notice to Bidders, Instructions to Bidders.

This is a Tax Exempt Project.

Builders Risk Insurance is to be furnished by the Owner.

ACCEPTANCE

This offer shall be open to acceptance and is irrevocable for sixty days from the bid closing date.

If this bid is accepted by Owner within the time period stated above, we will:

Execute the Agreement within ten (10) days of receipt of Notice of Award.

Commence work within ten (10) days after written Notice to Proceed of this bid.

If this bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to Owner by reason of our failure, limited in amount to the lesser of the face value of the security deposit or the difference between this bid and the bid upon which a Contract is signed.

In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

CONTRACT TIME

Owners desired start date: June 1, 2026

Owners desired completion date: November 20, 2026

If this Bid is accepted, we will:

Complete the Work by November 20, 2026 or at an earlier date of _____ (Bidder to enter completion date or time frame prior to completion date listed.)

UNIT PRICES

The following are Unit Prices for specific portions of the Work as listed. The following is the list of Unit Prices:

Petroleum-Contaminated Soil Replacement (per Section 02 61 01, Article 1.07):

$_____ Per Cubic Yard

The Owner, Architect, and Contractor must agree to all Unit Prices prior to the award of contract. Lack of agreement of Unit Prices is grounds for rejection of bid.

ADDENDA

The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.

Addendum # _____ Dated _____.
Addendum # _____ Dated _____.
Addendum # _____ Dated _____.
Addendum # _____ Dated _____.
Addendum # _____ Dated _____.
Addendum # _____ Dated _____.

BID FORM SUPPLEMENTS

Bid Bond

Noncollusion Affidavit

Contractor's Affidavit

BID FORM SIGNATURE(S)

_____

(Bidder - print the full name of your firm)

was hereunto affixed in the presence of:

_____

(Authorized signing officer)

_____

(Authorized signing officer, Title)

SEALED SUBMISSION:

Bid is to be submitted in Duplicate.

Bid is to be submitted in a sealed envelope containing bid and bid form supplements and addressed as follows:

Prime Contract Bid for:
Lakota Local Schools
5186 County Road 13
Kansas, Ohio 44841

END OF BID FORM

SECTION 01 22 00
UNIT PRICES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. List of unit prices, for use in preparing Bids.

B. Measurement and payment criteria applicable to Work performed under a unit price payment method.

C. Defect assessment and non-payment for rejected work.

1.02 COSTS INCLUDED

A. Unit Prices included on the Bid Form shall include full compensation for all required labor, products, tools, equipment, plant, transportation, services, testing and incidentals; erection, application or installation of an item of the Work; overhead and profit.

1.03 MEASUREMENT OF QUANTITIES

A. Take all measurements and compute quantities. Measurements and quantities will be verified by Owner's representatives.

B. Assist by providing necessary equipment, workers, and survey personnel as required.

C. Measurement by Volume: Measured by cubic dimension using mean length, width and height or thickness.

1.04 PAYMENT

A. Payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities of Work that is incorporated in or made necessary by the Work and accepted by the Architect, multiplied by the unit price.

1.05 SCHEDULE OF UNIT PRICES

A. The Owner, Architect and Contractor must agree to all unit prices prior to the award of contract. A lack of agreement of unit prices is grounds for rejection of bids.

B. Unit Price for Petroleum-Contaminated Soil Replacement (per Section 02 61 01).

1. If petroleum-contaminated soils are encountered during the removal of underground storage tank piping (per Section 02 65 00), the costs for its removal/disposal and provision of new backfill (per Section 02 61 01) at these related excavations only will be paid for on a unit price basis.
2. If petroleum-contaminated soils are NOT encountered during the removal of underground storage tank piping, backfill of underground storage tank piping excavations shall be completed at no additional cost.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 22 13 19
SANITARY WASTE PIPING SPECIALTIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Trench drains.

1.02 REFERENCE STANDARDS

A. ASME A112.6.3 - Floor and Trench Drains; 2019.

B. DIN 19580 - Drainage channels for vehicular and pedestrian areas - Durability, mass per unit area and evaluation of conformity; 2010.

C. DIN EN 1433 - Drainage Channels for Vehicular and Pedestrian Areas - Classification, Design and Testing Requirements; Marking and Evaluation of Conformity; 2005.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide manufacturer's literature and data sheets for each product. Include information on fabrication materials, assembly of components, dimensions, ratings, finishes, rough-in requirements, and installed accessories.

1.04 DELIVERY, STORAGE, AND HANDLING

A. See Section 01 74 19 - Construction Waste Management and Disposal for packaging waste requirements.

B. Receive, inspect, handle, and store products in accordance with manufacturer's instructions.

C. Keep products in original manufacturer's packaging and protect from damage until ready for installation.

D. Store products under cover and protected from weather and dirt. Elevate above grade.

PART 2 PRODUCTS

2.01 TRENCH DRAINS

A. Polymer Concrete Trench Drains:
   1. Manufacturers:
      a. ABT, Inc..
      b. ACO, Inc.
      c. Eric'sons Dura Trench.
      d. Jay R. Smith Manufacturing Company.
      e. Hubble
   2. Description: Trench drain system assembled from factory-fabricated, polymer concrete channel sections in standard lengths, with bottom slope, interlocking joints, and integral grate support rails; includes tie-down anchors, end caps, outlet fittings, and grating.
   3. Refer to schedule on drawing for length of drains required.
   4. Provide with quantity of two fiberglass trench shovels designed specifically for use with the trench drain system without damaging the interior walls of the trench. Shovel blades shall be laminated using the same glass-filled polyester fiberglass material found in the trench drain system. Equal to Zurn model Z-812.
   5. Grate: Manufacturer provided with manufacturer's snap-in or clip-in anchoring system to prevent rocking or slipping.
      a. Load Class, in Accordance With DIN 19580 or DIN EN 1433: Load Class C.
      b. Material: Galvanized ductile iron.
      c. Style: Bar grate.

B. High-Density Polyethylene (HDPE) Trench Drains:
   1. Manufacturers:
      a. Zurn.
      b. ABT, Inc.
      c. ACO, Inc.
      d. Advanced Drainage Systems
      e. Eric'sons Dura Trench
      f. Froet Industries
      g. Jay R. Smith Manufacturing Company
      h. Josam Company
      i. MIFAB
      j. Sioux Chief
      k. Wade
      l. Watts Regulator Company
      m. Substitutions: See Section 01 60 00 - Product Requirements.
   2. Description: Trench drain system assembled from factory-fabricated channel sections in standard lengths, with bottom slope, interlocking joints, and grate support edges; includes tie-down anchors, end caps, outlet fittings, and grating.
   3. Refer to schedule on drawing for length of drains required.
   4. Provide with quantity of two fiberglass trench shovels designed specifically for use with the trench drain system without damaging the interior walls of the trench. Shovel blades shall be laminated using the same glass-filled polyester fiberglass material found in the trench drain system. Equal to Zurn model Z-812.
   5. Grate Support Frame: Galvanized or stainless steel.
   6. Grate: Manufacturer provided with manufacturer's snap-in or clip-in anchoring system to prevent rocking or slipping.
      a. Load Class, in Accordance With DIN 19580 or DIN EN 1433: Load Class C.
      b. Material: Galvanized ductile iron.
      c. Style: Bar grate.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify conditions are satisfactory for installation prior to starting work.

3.02 INSTALLATION

A. Install products in accordance with manufacturer's instructions.

B. Maintain continuity of waterproofing membranes. Secure waterproofing membranes to drain clamping collars and bonding flanges.

C. Install drains so grates are level and are at design elevation.

D. Install trench drains parallel and perpendicular to building lines, unless designated otherwise.

E. Install grates in trench drains so grates do not rock, slip, or shift.

3.03 CLEANING

A. See Section 01 70 00 - Execution and Closeout Requirements for additional requirements.

B. Clean debris from drains.

3.04 PROTECTION

A. Protect installed drains from accumulating dirt and debris through remainder of construction.

B. Protect installed products from damage due to subsequent construction operations.

END OF SECTION

SECTION 01 11 01

SUMMARY OF WORK
UNDERGROUND STORAGE TANK WORK

PART 1 - GENERAL

1.01 SUMMARY

A. **Section Includes:** Scope of work, identification of project site, and work sequence. Refer to other Division 1 Sections for additional specifications.

B. **Related Sections:**

1. Section 01 22 00: Unit Prices
2. Section 01 33 01: Submittal Procedures - UST Work
3. Section 01 41 01: Regulatory Requirements - UST Work
4. Division 2: Existing Conditions
5. Division 10: Specialties
6. Division 31: Earthwork
7. Division 33: Site Utilities

1.02 WORK IDENTIFICATION

A. **Engineer for Underground Storage Tank Work** is Gandee & Associates, Inc.

Engineer will furnish a Resident Project Representative (RPR) to assist Engineer by periodically observing performance of UST Work. Furnishing of such services shall not make Engineer responsible for Contractor's failure to perform Work in accordance with Contract Documents. Duties and responsibilities of RPR are limited to those of Engineer in Contract Documents, and are further limited and described as follows:

1. **General:** RPR is Engineer's full-time representative at Site(s). RPR's dealings in matters pertaining to Work in general will be with Engineer and Contractor, keeping Owner advised, as necessary. RPR's dealings with Subcontractors will only be through or with full knowledge and approval of Contractor. RPR will generally communicate with Owner only with knowledge of and under direction of Engineer. The RPR will:

   a. **Conferences and Meetings:** Attend meetings with Contractor, such as pre-abatement/construction meetings, progress meetings, job conferences, and other Project related meetings (but not including Contractor's Safety meetings).

   b. **Safety Compliance:** Comply with Site safety programs, as they apply to RPR, and if required to do so by such safety programs, receive safety training specifically related to RPR's own personal safety while at the Site.

c. **Liaison:** Serve as Engineer's liaison with Contractor, working principally through Contractor's authorized representative or designee, assist in providing information regarding intent of Contract Documents; assist Engineer in serving as Owner's liaison with Contractor when Contractor's operations affect Owner's on-site operations; and assist in obtaining from Owner additional details or information, when required for Contractor's proper execution of Work.

d. **Review of Work/Defective Work:** Conduct on-site observations of Work to assist Engineer in determining if Work is in general proceeding in accordance with Contract Documents; observe whether any Work in place appears to be defective; and observe whether any Work in place should be uncovered for observation, or requires special testing, inspection or approval.

e. **Inspections and Tests:** Observe Contractor-arranged inspections required by Laws and Regulations, including but not limited to those performed by public or other agencies having jurisdiction over the Work; and accompany visiting inspectors representing public or other agencies having jurisdiction over the Work.

f. **Completion:**

1) Participate in Engineer's Site visits.

2) Assist in the preparation of a punch list of items to be completed or corrected.

3) Participate in Engineer's visit to the Site in the company of Owner and Contractor regarding completion of the Work and assist in preparation of a final punch list of items to be completed or corrected by Contractor.

4) Observe whether items on the final punch list have been completed or corrected.

g. **Records:** Maintain records for use in preparing Project documentation.

h. **Interpretation of Contract Documents:** Report to Engineer when clarifications and interpretations of Contract Documents are needed and transmit to Contractor clarifications and interpretations as issued by Engineer.

i. **RPR will not:**

1) Authorize any deviation from Contract Documents or substitution of materials or equipment, unless so directed by Engineer.

2) Exceed limitations of Engineer's authority as set forth in Contract Documents.

3) Undertake responsibilities of Contractor, Subcontractors, or Suppliers.

4) Advise on, issue directions relative to, or assume control over any aspect of means, methods, techniques, sequences, or procedures of Work.

5) Advise on, issue directions regarding, or assume control over security or safety practices, precautions, and programs in connection with Work.

6) Participate in specialized field or laboratory tests or inspection conducted off-site by others except as specifically authorized by Engineer.

7) Authorize Owner to occupy Site(s) in whole or in part.

8) Provide access to Work by any governmental agent.

9) Act as an agent of Engineer except as set forth herein.

B. Per Contract Documents, UST Work of this Project includes:

1. **Base Bid:**

a. **Known Work:**

1. Removal of dispenser, dispenser sump, bollards, manway cover, tank sump, submersible pump, associated piping, associated appurtenances, etc. (per Section 02 65 00);

2. Provision of diesel dispenser at a new location (per Drawing Sheet F1.1 and Section 33 56 13) and associated new product piping, submersible turbine pump, tank sump, dispenser sump, fire extinguisher, manway cover, and bollards.

b. **Unit Price Work:** (per Section 01 22 00) in yet to be determined locations as designed by Engineer.

1.03 CONTRACTOR REQUIREMENTS

A. Contractor (all applicable on-site personnel) shall possess current Tank Installer Certification with Ohio State Fire Marshal's Office and shall submit a copy of these certificate(s) prior to start of Work. Contractor shall have at least one certified Installer on Site during Work.

B. Unless specified otherwise, Contractor shall provide all testing required by Contract Documents at Contractor's expense.

1.04 CONTRACTOR'S SUPERINTENDENT

A. Superintendent shall be Contractor's representative on Site and have authority to act on behalf of Contractor. Superintendent shall have ability to communicate effectively with workers and regulatory agencies.

B. Superintendent for removal of Storage Tanks shall be a "Competent Person" as required by OSHA, a Certified Ohio State Fire Marshal's Office Tank Installer and shall have a minimum of one year's experience total as superintendent for removal of storage tanks on a minimum of three projects.

1.05 ACCESS TO WORK

A. Control and limit access to Work. Engineer and Engineer's representatives and employees shall have unlimited access to Work. Owner and Owner's representatives and employees and other persons designated by Owner, or Engineer, shall have access to Work at reasonable times for their observation, documentation, inspection and testing, or for such other reasonable purposes identified by Owner or Engineer.

1. Representatives, employees, and persons entering work area shall, at a minimum, follow all OSHA requirements for entering regulated areas (e.g., respirators, competent persons, etc.).

2. Representatives, employees, and persons entering any work area shall have appropriate training as determined by competent person.

B. Employees or representatives of government agencies shall have access to Work under the following terms and conditions:

1. Government agency and its employees or representatives are legally authorized to have access to Work. Determine that said legal authority exists and scope of legal authority. Immediately notify Owner and Engineer of any request by any government agency or employees or representatives of government agencies to have access to Work.

2. Contractor shall take steps necessary to determine interests and rights of Owner and Engineer in any inspections by government agencies. Establish, to extent possible at Pre-Abatement Meeting, interests and rights of Engineer and Owner in any inspections by government agencies. Take steps necessary to protect and preserve interests and rights of Owner and Engineer in any inspections by government agencies or by employees or representatives of government agencies.

3. Fully indemnify Owner and Engineer from loss or damages arising from Contractor's permitting access to Work in any manner that does not preserve and protect interests and rights of Owner and Engineer.

C. Access to Work by persons other than employees or representatives of government agencies, Owner, Engineer, or Contractor shall be permitted on the following terms:

1. No persons other than those persons designated by Owner or Engineer shall have access to Work.

2. Those persons designated by Owner or Engineer as persons who shall be permitted access to Work shall sign a waiver of liability in conformity with Waiver of Liability Form in Attachment B. Secure executed waivers of liability. In event any person described herein refuses to sign said waiver of liability, report this immediately to Engineer and deny access to Work to said person.

3. Persons designated by Owner or Engineer as persons who shall have access to Work shall have access at a reasonable date and time and in a reasonable manner.

D. For persons having access to Work pursuant to provisions of Paragraphs 1.08.A through 1.08.C, Contractor shall:

1. Provide proper and safe conditions for access to Work.

2. Record in writing names of such persons, their affiliation with any relevant organization or agency, dates, times, places and durations of all such access.

E. Secure ingress and egress to Work in a manner which prevents access to Work that fails to conform with provisions stated herein.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION

SECTION 01 33 01

SUBMITTAL PROCEDURES
UNDERGROUND STORAGE TANK WORK

PART 1 - GENERAL

1.01 SUMMARY

A. **Section Includes:** Required submittals and submittal procedures.

B. Requirements of this Section apply to submittals required by all Sections of Contract Documents for this Project.

1.02 REQUIRED SUBMITTALS

A. Refer to each Section for additional submittals required by given Section.

B. The following submittals are required at least ten work days prior to start of Work:

1. Applicable **Contractor Licenses** as required by federal, state, and local laws.

2. Ohio State Fire Marshal's Office **Tank Installer Certification** per OAC 1301: 7-9-11. At least one certified installer shall be on site during work activities related to storage tanks.

3. **Notifications** required by federal, state, and local regulations submitted within time frames required by regulatory agencies.

4. **Safety Data Sheets** for materials and supplies listed in Hazard Communication Standard (29 CFR 1926.59).

5. Proposed **Treatment Facility and/or Landfill** for disposal of petroleum contaminated soil, piping contents, etc.

C. The following submittals are required during course of Work and prior to completion of Work:

1. **Employee Exposure Monitoring Required by OSHA:** Perform exposure monitoring in compliance with OSHA regulations for Contractor's employees. Provide exposure monitoring equipment required in Paragraph 1.02.C. Contractor shall bear costs in connection with exposure monitoring and reporting required in Paragraph 1.02.C.

2. **Worker Credentials**: Submit proof that each employee performing work activities related to removal of storage tanks has completed an OSHA 10- or 30-hour construction course and at least one project Superintendent or supervisor has completed an OSHA 30-hour construction course. Training course shall include instruction specific to hazards involved in this work; submit certificate indicating which training topics were addressed. No worker shall be permitted to work on this project unless proof of these training requirements has been submitted in their name.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION

SECTION 01 41 01

REGULATORY REQUIREMENTS
UNDERGROUND STORAGE TANK WORK

PART 1 - GENERAL

1.01 SUMMARY

Section Includes: Governmental regulations and industry standards which are included and incorporated herein by reference and made a part of Contract Documents. This Section also sets forth those notices and permits which are known to Owner and which either must be applied for and received, or which must be given to governmental agencies before start of Work.

1.02 CODES AND REGULATIONS

A. **General Applicability of Codes, Regulations, and Standards:** Except to extent that more explicit or more stringent requirements are written directly into Contract Documents, applicable codes, regulations, and standards have same force and effect (and are made a part of Contract Documents by reference) as if copied directly into Contract Documents, or as if published copies are bound herewith.

B. **Contractor Responsibility:** Assure that removal or disturbance of hazardous materials, silica-containing materials, and lead- and cadmium-containing paint be conducted in compliance with state and federal statutes and regulations. Assure, as far as practicable, that materials are transported and disposed or recycled/incinerated in a manner which complies with state and federal statutes and regulations. Contract with any third party required to transport, dispose, recycle/incinerate, or store lead-, silica-, or cadmium-containing materials, heavy metals, and warrant that any such third party have fulfilled licensing or certification requirements of state and federal statutes and regulations. Indemnify and hold harmless Owner and its agents for any liability imposed as a result of its or any third party's violation of any state or federal statute or regulation regarding removal, transport, disposal, recycling/incineration or storage of lead-, silica-, and cadmium-containing materials, and hazardous materials.

C. **Federal Requirements** which govern Work include, but are not limited to, the following:

1. U.S. Department of Labor, Occupational Safety and Health Administration (OSHA) including, but not limited to:

a. "Occupational Exposure to Cadmium"
29 CFR 1926.63

b. "Respiratory Protection"
29 CFR 1910.134

c. “Respirable Crystalline Silica”
29 CFR 1926.1153

d. "Construction Industry"
29 CFR 1926

e. “Sanitation”
29 CFR 1926.51

f. "Lead Exposure in Construction; Interim Final Rule"
29 CFR 1926.62

g. "Access to Employee Exposure and Medical Records"
29 CFR 1910.2

h. "Hazard Communication"
29 CFR 1926.59

i. "Specifications for Accident Prevention Signs and Tags"
29 CFR 1910.145

j. “Hazardous Waste Operations and Emergency Response”
29 CFR 1910.120

k. “Personal Protection Equipment Standard”
29 CFR 1910, Subpart 1

2. U. S. Environmental Protection Agency (EPA) including, but not limited to:

a. "Notification Requirements; Reportable Quantity Adjustments"
40 CFR 763.117 and 40 CFR 763.302

b. "Recycling and Emissions Reduction”
40 CFR 82, Subpart F

c. "Hazardous Waste Regulations”
40 CFR 260 through 272

d. Environmental Protection Agency (EPA) Lead-Based Paint Activities 40 cfr 745 Subpart E

e. "Resource Conservation and Recovery Act"
40 CFR 261

3. U.S. Department of Transportation (DOT) and other federal standards including, but not limited to:

a. "Hazardous Substances"
49 CFR Parts 171, 172 through 180, and 387

b. "Safety Data Sheets, Preparation, and the Submission of”
Federal Standards 313A

c. "Precautions and Procedures for Entering Methods or other Below Grade Confined Spaces”
NIH DES Instruction 1340-7

d. "Standards for Temporary Construction”
NIH DCAB Publication March 1988

D. **State Requirements:**

1. Work shall be performed in accordance with Ohio Basic Building Code (OBBC).

2. State requirements which govern asbestos hazard abatement work include Chapters 3745-20 and 3745-22 of Ohio Administrative Code.

3. State requirements which govern lead abatement include Chapter 3701-32 of Ohio Administrative Code.

E. Abide by **local requirements** which govern Work.

1.03 LICENSES, PERMITS AND CERTIFICATIONS

Maintain current licenses, permits, and certifications as required by applicable federal, state, or local jurisdictions for removal, transporting, disposal, or other regulated activity relative to Work of this Contract.

1.04 POSTING AND FILING OF REGULATIONS

Maintain a copy of applicable federal, state, and local regulations noted above and have on file in Contractor's field office.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.01 NOTICES

Prepare and send written Notification as required by **local regulations** prior to beginning Work.

END OF SECTION

SECTION 01 45 23

TESTING LABORATORY AND INSPECTION SERVICES UNDERGROUND STORAGE TANK WORK

PART 1 - GENERAL

1.01 SUMMARY

A. **Section Includes:** General requirements for provision of testing laboratory and inspection services for all work related to underground or aboveground storage tanks.

B. **Related Sections:**

1. Section 02 61 01: Petroleum Contaminated Soil

2. Section 02 65 00: Underground Storage Tank System Removal

1.02 GENERAL REQUIREMENTS

A. Provide testing and inspection services required by Contract Documents (except for that specified as responsibility of Owner or Engineer) using an approved independent testing laboratory (Paragraph 1.03.A).

B. Reports and findings of required tests and inspections shall be issued by Testing Agency directly to Contractor, Engineer, and Owner.

1.03 APPROVED LABORATORIES

A. Unless otherwise approved by Owner, the following laboratories shall perform all testing and inspection services specified:

1. Geotechnical Consultants, Inc.
Main Office
720 Green Court Drive
Westerville, Ohio 43081
Phone: 614-895-1400

2. S&ME, Inc.
6190 Enterprise Court
Dublin, Ohio 43016
Phone: 614-793-2226

3. Resource International, Inc.
6350 Presidential Gateway
Columbus, Ohio 43231
Phone: 614-823-4949

4. CLC Labs
325 Venture Drive
Lewis Center, Ohio 43035
Phone: (614) 888-1663

5. Triad Engineering, Inc.
   1010 Coles Boulevard, Suite 200
   Portsmouth, Ohio 45662
   Phone: 740-249-4304

B. Notify Engineer of scheduled testing and inspection services (date and time) prior to start of this work; notification shall include work being conducted and name of laboratory representative performing specified service.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION

SECTION 02 61 01

PETROLEUM-CONTAMINATED SOIL

PART 1 - GENERAL

1.01 SUMMARY

A. **Section Includes:** Removal, transportation, and disposal of petroleum contaminated soil and provision of fill to replace that removed. ***Unless specified otherwise, Contractor will be directed to proceed with the work of this Section by Change Order or Written Directive.***

B. Work of this Section shall be **coordinated with Engineer;** provide Engineer with advance notice of at least two work days to complete work required of Engineer under this Section.

C. **Related Sections:**

1. Section 01 22 01: Unit Prices

2. Section 02 65 00: Underground Storage Tank System Removal

3. Division 31: Earthwork

D. **Owner's Responsibilities:** Owner will remove movable equipment from work site, unless designated otherwise by Contractor, prior to commencement of work.

E. **References:** Unless more stringent requirements are specified in this Section, use current versions of the following guidelines, standards, codes, and regulations:

1. API-2003: Protection Against Ignitions Arising out of Static, Lighting, and Stray Currents;

2. API-2015: Safe Entry and Cleaning of Petroleum Storage Tanks;

3. API-2219: Safe Operation of Vacuum Trucks Handling Flammable and Combustible Liquids in Petroleum Service;

4. NFPA 30: Flammable and Combustible Liquids Code;

5. NFPA 70: National Electric Code;

6. OAC Chapter 1301;

7. 29 CFR Part 1910: OSHA Safety and Heath Standards; and

8. 29 CFR Part 1926: OSHA Safety and Health Regulations; Construction Industry Standard.

1.02 SUBMITTALS

A. Refer to Section 01 33 01 for additional submittal requirements.

B. **Disposal Records:** Within 20 days of removal, submit an accurate accounting of wastes or materials removed from work site; records shall be submitted to Engineer for off-site transportation and disposal of wastes and materials hauled in conjunction with disposal of contaminated soil. The following records shall be submitted:

1. Manifests for transportation of each shipment of regulated substances;

2. Weight/gallonage tickets for each delivery of wastes disposed at a permitted disposal facility; and

3. Certificate of Disposal, Certificate of Recycling, or other applicable evidence of receipt and satisfactory disposal of each waste shipment at permitted disposal facility.

C. **Other Submittals:** Submit copies of all documentation of labor, equipment, and materials used for removal, storage, transportation, and disposal of contaminated soil in a format required of Engineer to submit to PETRO Board.

D. **Permits:** Secure and submit copies of permits required under this Section and federal, state, and local regulations. Pay fees associated with permits required by this Section.

1.03 SITE CONDITIONS

A. **Existing Conditions:** If previously unidentified contaminated soil is encountered in excavation zones or pipe trenches, Contractor may be directed by Change Order or Written Directive per Article 1.07 to remove soil per this Section and current federal, state, and local requirements. Engineer/Owner and Contractor shall estimate quantity of contaminated soil prior to removal.

B. **Protection:** Confine operations to immediate areas of Work. Contractor shall be responsible for replacement and restitution work of whatever nature at no expense to Owner.

1. Use signs, signals, barricades, and other safety precautions conforming to requirements of federal, state and local laws, rules, regulations, precautions, orders, and decrees.

2. Comply with API-1604 for worker safety with respect to toxicity considerations.

3. Tools, electrical equipment, and non-electrical mechanized equipment used within possible vapor hazard areas must be explosion-proof in accordance with NFPA 70B Class 1, Division 1, Group D; or otherwise approved for use in potentially explosive atmospheres.

4. As concentrations of vapors in work area may reach flammable (explosive) range, refer to API-2015 for proper procedures for vapor-freeing and for control of sources of ignition. Take precautions to cover the following:

a. Eliminate potential sources of ignition;

b. Prevent static electricity discharges;

c. Prevent accumulation of vapors at ground level; and

d. Protect walls of excavation zones from collapse, in accordance with applicable regulations and OSHA requirements.

1.04 PRELIMINARY WORK

Coordinate work with local and state fire marshals. Contractor is responsible for any required stand-by inspector fees.

1.05 CONTRACTOR SAMPLING

A. **Sampling:** Perform sampling necessary for disposal of contaminated soil in accordance with requirements of disposal facility.

B. Provide personnel experienced in methods of sampling and quality assurance/quality control procedures to collect and handle samples, furnish and maintain sampling equipment, and laboratory analyses required in Paragraph 1.05.A. Contractor is responsible for costs in connection with sampling and reporting required in Paragraph 1.05.A.

1.06 PERSONNEL AND SITE PROTECTION

A. **General:**

1. Ensure compliance with requirements of this Section, OSHA regulations, and other safety requirements.

2. Authorize immediate action to correct substandard safety conditions.

3. Review and act to ensure compliance with safety procedures with Contractor's supervisors, subcontractors, and suppliers.

4. Instruct workers regarding safe work practices and work methods at time workers are given work assignments.

5. Continuously inspect work to verify that no unsafe practices or conditions exist.

B. **Site Security:**

1. Comply with OSHA and EPA regulations concerning signage and labeling.

2. Refer to Article 1.05 of Section 01 11 01 concerning access to work.

C. **Site Protection:**

1. Protect excavations and trenches to prevent entry of surface water. Remove, transport, and dispose of precipitation and surface water that collects in excavations and piping trenches in accordance with federal, state, and local regulations. Contractor shall bear all costs for removal, transportation, and disposal of precipitation and surface water that collects in excavations and trenches.

2. Protect petroleum-contaminated soil to prevent spread of contamination to non-contaminated materials. Remove, transport, and dispose of materials that become contaminated due to contact with petroleum contaminated soil or liquids released from contaminated soil in accordance with federal, state, and local regulations. Contractor shall bear all costs for removal, transportation, and disposal of materials that become contaminated due to contact with petroleum-contaminated soil or liquids released from petroleum-contaminated soil.

3. If an area of work site appears (to Engineer) to be contaminated by Contractor activities, Contractor shall bear expenses for determination of contamination and necessary decontamination as determined by Owner.

1.07 MEASUREMENT AND PAYMENT

A. Costs for excavation and disposal of petroleum-contaminated soil as specified in this Section shall be included in unit price for Petroleum-Contaminated Soil Replacement. Payment will be based upon amounts quantified in disposal records, receipts, and manifests.

B. Costs for backfilling (per Division 31) following Work of Paragraph 1.07.A shall be included in unit price for Petroleum-Contaminated Soil Replacement. Payment will be based upon materials quantified under Paragraphs 1.07.A.

PART 2 - PRODUCTS

2.01 MATERIALS

A. **Temporary Protection:** Materials needed or required for temporary protection in form of barricades, fences, enclosures, etc., may be pre-used construction materials if they are of sound condition, reasonably clean, and meet or exceed requirements for materials of governing agencies or approving bodies as may be involved with or have jurisdiction over work.

B. **On-Site Storage:** Use materials for on-site storage of excavated soils complying with OAC Rule 1301: 7-9-16, Petroleum-Contaminated Soils.

C. **Transportation Equipment:** Transportation equipment, as required, shall be suitable for loading, temporary storage, transit, and unloading of contaminated waste without exposure to persons or property.

D. **Other Tools & Equipment:** Provide other suitable tools for removal of underground storage tank systems and disposal activities. Provide other materials, not specifically described but required for a complete and proper performance, as selected by Contractor subject to approval of Engineer.

E. **Owner's Tools and Equipment:** Use of Owner’s tools and equipment is prohibited.

PART 3 - EXECUTION

3.01 SEQUENCE OF EXECUTION

A. Remove petroleum-contaminated soil (per Article 3.02).

B. Load and transport petroleum-contaminated soil in accordance with State Fire Marshall (SFM) requirements (per Article 3.02).

C. Disposal of petroleum-contaminated soil at a permitted disposal facility (per Article 3.02).

D. Provide borrow material, backfill, and compaction to replace excavated soils (per Article 3.03).

3.02 REMOVAL, TRANSPORTATION, STORAGE, AND DISPOSAL OF PETROLEUM-CONTAMINATED SOIL

A. **General:** Remove, load, transport, and dispose of petroleum-contaminated soil. Means and methods of performing work are sole responsibility of Contractor.

B. **Removal and Storage:** Remove contaminated soil from excavations by methods acceptable to Owner/Engineer in accordance with applicable requirements of USEPA, OEPA, SFM, and local regulatory agencies. Properly store contaminated soil on-site in an area designated by Owner until it is transported off-site.

C. **Transportation and Disposal of Contaminated Soil:**

1. Obtain permits and licenses to transport and dispose of petroleum-contaminated soil off-site.

2. Load petroleum-contaminated soil from soil stockpiles onto trucks for subsequent transportation and disposal.

3. Transporter shall hold current federal, state, and local permits and licenses to haul petroleum-contaminated soil as required.

4. Disposal facility shall hold current permits and licenses to accept petroleum-contaminated soil.

5. Do not haul contaminated soil off-site until evidence has been submitted to satisfaction of Engineer that disposal facility accepts contaminated soil and disposal facility is authorized to accept contaminated substances. Do not haul contaminated substances off-site that do not meet acceptance criteria of receiving disposal site.

6. Transport and dispose contaminated soil off-site in a lawful manner. Pay transportation and disposal facility fees.

D. **Proof of Disposal of Wastes Hauled Off-site:** Provide proof for Owner's records that each shipment of wastes hauled off-site were properly disposed. Include the following information (at a minimum):

1. Name and address of disposal site;

2. Signature of authorized agent of receiving disposal site;

3. Date shipment accepted;

4. Description of shipment;

5. Quantity of shipment; and

6. Method of disposal.

3.03 BACKFILLING AND COMPACTION

A. Do not perform final backfilling of areas from which contaminated soils are removed until authorized by Engineer. Protect walls of excavations from collapse in accordance with applicable regulations. Upon authorization by Engineer, perform backfilling and compaction (per Division 31).

B. Provide borrow material to replace excavated backfill from UST excavations and piping trenches and to fill void caused by removal of UST piping and/or ancillary equipment.

C. Stockpiled excavated soil deemed as uncontaminated may be used for backfilling of excavation zones and piping trenches, unless directed otherwise by Engineer.

END OF SECTION

SECTION 02 65 00

UNDERGROUND STORAGE TANK COMPONENT REMOVAL

PART 1 - GENERAL

1.01 SUMMARY

A. **Section Includes:** Removal, transportation, and disposal of underground storage tank components, piping, and/or ancillary equipment and provision of backfill.

B. Work of this Section shall be **coordinated with Engineer**; provide Engineer with advance notice of at least two work days to complete work required of Engineer under this Section.

C. **Related Sections:**

1. Section 01 22 01: Unit Prices

2. Section 02 61 01: Petroleum-Contaminated Soil

3. Division 31: Earthwork

D. **Owner's Responsibilities:** Owner will remove movable equipment from work site, unless designated otherwise by Contractor, prior to commencement of work.

E. **References:** Unless more stringent requirements are specified in this Section, use current versions of the following guidelines, standards, codes, and regulations:

1. API-1604: Closure of Underground Petroleum Storage Tanks;

2. API-1628: A Guide to the Assessment and Remediation of Underground Petroleum Releases;

3. API-2003: Protection Against Ignitions Arising out of Static, Lighting, and Stray Currents;

4. API-2015: Safe Entry and Cleaning of Petroleum Storage Tanks;

5. API-2219: Safe Operation of Vacuum Trucks Handling Flammable and Combustible Liquids in Petroleum Service;

6. NFPA 30: Flammable and Combustible Liquids Code;

7. NFPA 70: National Electric Code;

8. NFPA 329-92: Handling Underground Release of Flammable and Combustible Liquids;

9. OAC Chapter 1301;

10. 29 CFR Part 1910: OSHA Safety and Heath Standards; and

11. 29 CFR Part 1926: OSHA Safety and Health Regulations; Construction Industry Standard.

1.02 SUBMITTALS

A. Refer to Section 01 33 01 for additional submittal requirements.

B. **Disposal Records:** Within 20 days of removal, submit an accurate accounting of wastes or materials removed from work site; records shall be submitted to Engineer for off-site transportation and disposal of wastes and materials. The following records shall be submitted:

1. Manifests for transportation of each shipment of regulated substances;

2. Weight/gallonage tickets for each delivery of wastes disposed at a permitted disposal facility;

3. Certificate of Disposal, Certificate of Destruction, Certificate of Recycling, or other applicable evidence of receipt and satisfactory disposal of each waste shipment at permitted disposal facility;

4. Bills of sale for materials sold as scrap, including tanks, piping, and fittings;

5. Certificate of Destruction for tanks;

6. Materials description and identification of disposal site for other materials hauled off-site and disposed; and

7. Log of materials retained by Contractor.

C. **Permits:** Secure and submit copies of permits required under this Section and federal, state, and local regulations. Pay fees associated with permits required by this Section.

D. **Notifications:** Submit copies of notifications submitted to state and local fire marshal prior to start of work. Pay fees associated with notifications required by this Section.

1.03 SITE CONDITIONS

A. **Existing Conditions:**

1. Liquid and sludge remain in piping. Remove and dispose of liquid and sludge off-site as specified hereinafter.

2. Contaminated soil may be encountered in UST excavation zones. If potentially contaminated soil or groundwater is uncovered, notify Engineer immediately. Engineer may procure samples of soil to determine if contaminated. If contamination exists, Owner may direct Contractor by Change Order or Written Directive to remove and dispose of soil (per Section 02 61 01).

3. Hand digging may be necessary to avoid damaging existing underground utilities.

B. **Protection:** Confine operations to immediate areas of UST system components to be removed. Contractor shall be responsible for replacement and restitution work of whatever nature at no expense to Owner.

1. Use signs, signals, barricades, and other safety precautions conforming to requirements of federal, state, and local laws, rules, regulations, precautions, orders, and decrees.

2. Comply with API-1604 for worker safety with respect to toxicity considerations.

3. Tools, electrical equipment, and non-electrical mechanized equipment used within possible vapor hazard areas must be explosion-proof in accordance with NFPA 70B Class 1, Division 1, Group D; or otherwise approved for use in potentially explosive atmospheres.

4. As concentrations of vapors in piping, tank components, excavation, or work area may reach flammable (explosive) range, refer to API-2015 for proper procedures for vapor-freeing and for control of sources of ignition. Take precautions to cover following:

   a. Eliminate potential sources of ignition;

   b. Prevent static electricity discharges;

   c. Prevent accumulation of vapors at ground level; and

   d. Protect walls of excavation zones from collapse, in accordance with applicable regulations and OSHA requirements.

1.04 PRELIMINARY WORK

A. Coordinate work with local and state fire marshals. Contractor is responsible for any required stand-by inspector fees.

B. Contract with a BUSTR-approved UST Inspector. This inspector shall be on Site during applicable work activities at discretion of Inspector.

1.05 CONTRACTOR SAMPLING

A. **Sampling:** Perform sampling necessary for disposal of project wastes in accordance with requirements of disposal facility.

B. Provide personnel experienced in methods of sampling and quality assurance/quality control procedures to collect and handle samples, furnish and maintain sampling equipment, and laboratory analyses required in Paragraph 1.05.A. Contractor is responsible for costs in connection with sampling and reporting required in Paragraph 1.05.A.

1.06 PERSONNEL AND SITE PROTECTION

A. **General:**

1. Ensure compliance with requirements of this Section, OSHA regulations, and other safety requirements.

2. Authorize immediate action to correct substandard safety conditions.

3. Review and act to ensure compliance with safety procedures with Contractor's supervisors, subcontractors, and suppliers.

4. Instruct workers regarding safe work practices and work methods at time workers are given work assignments.

5. Continuously inspect work to verify that no unsafe practices or conditions exist.

B. **Site Security:**

1. Comply with OSHA and EPA regulations concerning signage and labeling.

2. Refer to Article 1.05 of Section 01 11 01 concerning access to Work.

C. **Site Protection:**

1. Protect excavations and trenches to prevent entry of surface water. Remove, transport, and dispose of precipitation and surface water that collects in excavations and piping trenches in accordance with federal, state and local regulations. Contractor shall bear all costs for removal, transportation, and disposal of precipitation and surface water that collects in excavations and trenches.

2. Protect excavated soil to prevent spread of contamination to non-contaminated materials. Remove, transport, and dispose of materials that become contaminated due to contact with excavated contaminated soil or liquids released from excavated contaminated soil in accordance with federal, state, and local regulations. Contractor shall bear all costs for removal, transportation, and disposal of materials that become contaminated due to contact with excavated contaminated soil or liquids released from excavated contaminated soil.

3. Protect excavation from unauthorized entry.

4. If an area of work site appears (to Engineer) to be contaminated by Contractor activities, Contractor is responsible for all costs for determination of contamination and necessary decontamination as determined by Owner.

1.07 CLOSURE ASSESSMENT & CLOSURE REPORT

Closure Assessment: Engineer will Perform sampling work necessary to complete UST closure assessment in accordance with SFM Requirements; take no action intended to distort or falsify measurements or concentrations. If Contractor fails to comply with this provision, Engineer may recommend that Owner directs Contractor to stop work. Contractor's work schedule shall include one work week for each site for Engineer to procure and analyze soil samples.

1.08 SOIL SAMPLING

Engineer will procure soil samples from stockpile(s) and excavations in substantial compliance with SFM Requirements; take no action intended to distort or falsify measurements or concentrations. If Contractor fails to comply with this provision, Engineer may recommend that Owner directs Contractor to stop work. Contractor's work schedule shall include one work week for Engineer to procure and analyze soil or groundwater samples.

PART 2 - PRODUCTS

2.01 MATERIALS

A. **Temporary Protection:** Materials needed or required for temporary protection in form of barricades, fences, enclosures, etc., may be pre-used construction materials if they are of sound condition, reasonably clean, and meet or exceed requirements for materials of governing agencies or approving bodies as may be involved with or have jurisdiction over work.

B. **On-Site Storage:** Use materials for on-site storage of excavated soils complying with OAC Rule 1301: 7-9-16, Petroleum-Contaminated Soils.

C. **Transportation Equipment:** Transportation equipment, as required, shall be suitable for loading, temporary storage, transit, and unloading of contaminated waste without exposure to persons or property.

D. **Other Tools & Equipment:** Provide other suitable tools for removal of underground storage tank systems and disposal activities. Provide other materials, not specifically described but required for a complete and proper performance, as selected by Contractor subject to approval of Engineer.

E. **Owner's Tools and Equipment:** Use of Owner's tools or equipment is prohibited.

PART 3 - EXECUTION

3.01 SEQUENCE OF EXECUTION

A. Inspect Site and locate UST piping and ancillary equipment designated to be removed (per Article 3.02).

B. Remove residual liquids and sludge prior to removal of UST piping (per Articles 3.03 and 3.04).

C. Excavation of soils from UST Excavation Zone and authorized excavation of native soils and trenching (per Article 3.04).

D. On-site storage of excavated soils (per Articles 3.03 and 3.04).

E. Remove UST piping, ancillary equipment, and/or appurtenances as specified (per Article 3.04).

F. Dispose of residual liquids and sludge, UST piping, ancillary equipment, and other material generated during Work (per Article 3.04). If applicable and directed by Owner, dispose of petroleum-contaminated soil (per Section 02 61 01).

G. Control water to prevent precipitation and surface water from entering open excavations.

H. Provide borrow material, backfill, and compaction to replace excavated soils and fill piping trench (per Article 3.05).

3.02 INSPECTION

Prior to performance of Work, carefully inspect work site and locate UST piping and ancillary equipment designated to be removed. Locate existing exposed and buried utilities and structures, and determine requirements for their protection, or their disposition with respect to work. Notify utilities in accordance with state and local requirements.

3.03 WORK PREPARATION

The following preparation procedures shall be performed:

A. Drain product piping in accordance with applicable sections of API-1604.

B. Prepare two separate storage areas away from edge of excavations; one for obviously contaminated excavated soils and one for excavated soils that do not exhibit obvious evidence of contamination. Materials shall be stockpiled in a way to prevent intermixing. Place, grade, and shape stockpiles to drain surface water. Cover stockpile to prevent windblown dust. Comply with OAC Rule 1301:7-9-16 requirements for storage of excavated soils.

C. Perform temporary erosion and sediment control work (per Drawing).

D. Construct impervious dike adjacent to locations of excavations and piping trenches to prevent entry of surface water.

E. Perform excavations in accordance with OSHA regulations.

3.04 UNDERGROUND STORAGE TANK PIPING REMOVAL AND DISPOSAL

A. **General:** Perform underground storage tank piping removal and disposal in accordance with applicable section of State Fire Marshall (SFM) Requirements, SFM Corrective Actions Guidance Document, API-1604, API-1628, API-2015, API-2015A, API-2219, requirements of regulatory agencies having jurisdiction, and this Section. Where there is a conflict in requirements, the stricter requirement applies. Means and methods of performing work are sole responsibility of Contractor.

1. Repair damage caused by Contractor to original condition.

2. Debris removal: contain debris as work is in progress. Dispose of debris off-site.

3. Abandoned Items: existing UST piping and ancillary equipment removed under the Work that are not claimed as salvage by Owner become property of Contractor. Dispose of abandoned items off-site in accordance with requirements of this Section.

4. Cover excavations and trenches at completion of each day's work and immediately upon onset of precipitation to prevent entry of precipitation.

5. Strictly adhere to OSHA standards regarding protection of excavations and confined space entry.

6. Strictly adhere to federal and state regulations regarding hazardous waste.

B. **Removal of Liquids and Sludge:**

1. Remove pumpable and non-pumpable liquids and sludge from UST piping and ancillary equipment in accordance with applicable sections of API-1604. Place liquids and sludge in ODOT-approved containers. Properly store substances on-site until transported and disposed off-site.

2. Materials found within UST piping and ancillary equipment are considered contaminated unless laboratory analyses indicate otherwise. Transport and dispose of liquids and sludge off-site in a lawful manner as specified.

C. **Removal and Disposal of Surface Material:** Remove surface material above UST piping and ancillary equipment using means and methods resulting in least amount of damage to adjacent surface materials. Dispose of waste surface material off-site in a lawful manner.

D. **Underground Storage Tank Piping System Removal:** Remove existing UST piping and/or ancillary equipment in accordance with SFM Requirements, with the following exceptions and clarifications:

1. Excavate soils carefully. Temporarily store excavated soils on-site in locations prepared by Contractor for this purpose until excavated soils are properly used as backfill on-site or hauled off-site.

2. Continuously monitor excavations and piping trenches for evidence of contamination in the following manner as a minimum:

   a. Visually examine exposed piping for holes, loose connections, and other defects;

   b. Examine excavated soil for visible discoloration and for residual odors characteristic of petroleum products;

   c. Visually examine water encountered in excavations for a floating sheen; and

   d. Visually examine excavations for free product floating on top of water or soil surface.

3. If apparent evidence of contamination is encountered, immediately notify Engineer.

   a. Engineer will screen suspected contaminated materials from diesel fuel, fuel oil and used oil UST excavations and piping trenches for petroleum hydrocarbons (PHC) using a photoionization detector or other instrument.

   b. Engineer will screen suspected contaminated materials from gasoline UST excavations and piping trenches for Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) using a photoionization detector other instrument.

4. If screening provides evidence that soil is contaminated, do not proceed with UST piping removal, but stabilize area and notify Engineer. Engineer may procure samples of soil for analyses to determine if these materials are contaminated. Engineer will notify Owner who will notify SFM of reportable releases or suspected releases as required. Until sampling proves otherwise, potentially contaminated soil and/or groundwater shall be handled as follows:

   a. **Contingency Plan for Contaminated Soil:** If Apparently Contaminated Soil (ACS) is encountered, perform the following, unless otherwise informed by Engineer.

      1) Perform Immediate Corrective Actions in accordance with SFM "Corrective Actions Guidance Document."

      2) Excavate ACS in presence of Engineer. Segregate ACS from previously excavated soil. If there is a clear distinction between heavily contaminated soil (soil saturated with product) and lightly contaminated soil, segregate heavily contaminated soils from lightly contaminated soils. Do not excavate beyond limits of tank and piping excavation zone without written permission of SFM.

      3) As ACS is excavated, monitor excavation for evidence that contamination has been removed. When apparent limits of contamination have been reached, screen representative samples of suspected clean soils as specified elsewhere in this Section. Inform Engineer of results of field screening. If screening

indicates that all ACS has been removed from excavation, segregate remaining excavated soil from previously stockpiled soils.

4) If authorized by Engineer in writing, transport, and dispose of petroleum contaminated soil at a Best Available Technology (BAT) lined landfill.

5. Remove UST piping from excavation in accordance with API-1604:

a. After removal of piping from excavations, perform measures necessary to maintain vapor-free condition at no increase in Contract Price.

b. Maintain at least two fire extinguishers on-site during tank piping cutting.

c. Clean UST piping and ancillary equipment for hauling off-site in accordance with API-2015 and API-2015A and with requirements of USEPA, OEPA, SFM, and other regulatory agencies having jurisdiction.

d. Load UST piping and ancillary equipment onto transport vehicles and secure to prevent movement. Do not store UST piping and ancillary equipment on-site overnight, unless approved in writing by Engineer.

7. Excavation shall not be backfilled until authorized by Engineer. Protect walls of excavation from collapse in accordance with applicable regulations. Protect excavation from entry of precipitation and surface water as specified in this Section.

8. Once authorized by Engineer, excavation may be backfilled. If samples of stockpile were procured by Engineer, provide permeable liner (e.g. perforated polyethylene film, filter fabric, landscape fabric, or silt fence) prior to start of backfilling operations. Additionally, if samples were procured, area backfilled shall not be compacted until otherwise approved by Engineer. Until area has been compacted and restored, driveways and sidewalks shall be maintained; provide steel plates to facilitate their intended use.

F. **Transportation and Disposal of UST Piping Contents:** Transport tank piping contents off-site and dispose in accordance with applicable requirements of USEPA, OEPA, SFM, ODOT, local regulatory agencies, and as specified in this Section:

1. Perform sampling, laboratory analyses, and other requirements for obtaining permits and approvals to transport and dispose of tank piping contents off-site. Provide copies of laboratory analysis reports.

2. Obtain permits and approvals to transport and dispose of tank piping contents off-site. Submit copies of permits and approvals to Engineer.

3. If temporary on-site storage of tank piping contents is required, place containers on-site in an area indicated by Engineer.

4. Load tank piping contents from temporary storage into truck trailers for subsequent transportation and disposal.

5. Disposal facility shall hold current permits and licenses to accept tank piping contents.

6. Do not haul tank piping contents off-site until evidence has been submitted to satisfaction of Engineer that disposal facility accepts tank piping contents, disposal facility is authorized to accept tank contents, and Engineer has issued written permission to haul tank contents off-site. Do not haul contaminated substances off-

site that do not meet acceptance criteria of receiving disposal site. Notify Engineer no less than three work days prior to loading and transporting tank piping contents off-site.

7. Transport and dispose of tank piping contents off-site in a lawful manner at a BAT lined landfill. Pay disposal facility fees.

8. Provide copies of weight/gallonage tickets from disposal facility.

9. Provide copies of completed manifests executed by transporter and disposal facility.

G. **Transportation and Disposal of Tank Piping:** Owner does not claim salvage of removed tank piping or allow for their reuse or resale; transport tanks to an EPA BAT site approved by Engineer:

1. Label tank piping in accordance with API-1604.

2. Obtain permits and approvals to transport tank piping off-site. Submit copies of permits and approvals to Engineer.

3. Haul tank piping off-site in accordance with requirements of ODOT. Submit evidence regarding UST transport in accordance with requirements of this Section.

4. Execute a bill of sale transferring ownership of tank piping to scrap steel reclamation facility (Buyer). Bill of sale must include acknowledgment that Buyer assumes all responsibility related to removed materials and indicate former use of tank piping and include wording used in labeling tank piping.

5. Submit letter to Engineer, signed by Contractor and a representative of EPA BAT site, certifying that tank piping was cleaned of residual liquids and sludge prior to disposal.

6. Submit a Certificate of Destruction to Engineer, signed by Contractor and representative of EPA BAT site, certifying that tank piping was destroyed.

H. **Proof of Disposal of Wastes Hauled Off-Site:** Provide proof for Owner's records that each shipment of wastes hauled off-site were properly disposed. Include the following information at a minimum:

1. Name and address of disposal site;

2. Signature of authorized agent of receiving disposal site;

3. Date shipment accepted;

4. Description of shipment;

5. Quantity of shipment; and

6. Method of disposal.

I. **Bills of Sale:** Bill of Sale is required as evidence for materials hauled off-site that were sold as salvage or scrap. Describe each item in detail, identify name and address of Buyer, and include signature of authorized representative of Buyer.

J. **Materials Retained by Contractor:** Maintain a log of materials hauled off-site and retained by Contractor.

3.05 BACKFILLING AND COMPACTION

A. Do not perform final backfilling of removed UST system excavation zones until authorized by Engineer. Protect walls of excavations from collapse in accordance with applicable regulations. Upon authorization by Engineer, perform backfilling and compaction (per Division 31).

B. Provide borrow material to replace excavated backfill from UST excavations and piping trenches and to fill void caused by removal of USTs, piping, and ancillary equipment.

C. Stockpiled excavated soil deemed as uncontaminated may be used for backfilling of excavation zones and piping trenches, unless directed otherwise by Engineer.

END OF SECTION

SECTION 10 44 16

FIRE EXTINGUISHERS

PART 1 - GENERAL

1.01 SUMMARY

A. **Section Includes:** Provision of fire extinguishers as shown and specified. Work includes:

1. 40-B:C dry chemical type fire extinguishers;

2. Mounting brackets and accessories; and

3. Lockable cabinets.

1.02 SUBMITTALS

A. Refer to Section 01 33 01 for additional submittal requirements.

B. Submit manufacturer's product data and specifications.

C. Submit manufacturer's fire extinguisher operation and maintenance data. Include test, refill or recharge schedules, procedures, and recertification requirements.

1.03 QUALITY ASSURANCE

Provide only new portable fire extinguishers fully loaded, tested, UL and FM labeled and listed, and ready for use.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

Manufacturer:

1. Larsen's Mfg. Co.;

2. J.L. Industries, Div. of Activar Inc.; or

3. Fire Tech.

2.02 EXTINGUISHERS

Fire extinguishers: Larsen's Model MP6 red enameled finish, heavy duty steel cylinder, UL rated and FM approved. Multi-purpose dry chemical type for Class B and C fires, 6 lb. charge weight, UL rated 3A-40B:C, pull pin, upright, squeeze grip operation with visual pressure gauge, and hose.

2.03 WALL BRACKETS

Mounting brackets: Provide manufacturer's standard plated finish heavy duty mounting brackets for surface mounted fire extinguishers. Provide proper size and type for capacity of extinguishers indicated.

2.04 CABINETS

Cabinets shall be lockable with break-glass feature, and mirrored finish on inside of glass. Cabinet shall be constructed of 12 gauge steel painted red with locking door, keys, hinges, and mirrored glass. Furnish with sign affixed to door.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install fire extinguishers where indicated in accordance with manufacturer's recommendations. Mount at heights specified.

B. Securely anchor brackets to substrate construction with toggle bolts or expansion anchors. Lead, wood, and plastic plugs and fasteners are not acceptable.

END OF SECTION

SECTION 33 52 01

LIQUID FUEL DISTRIBUTION - GENERAL PIPING REQUIREMENTS

PART 1 - GENERAL

1.01 SUMMARY

A. **Section Includes:** Provision of piping systems as detailed on Drawings and as specified herein.

1.02 QUALITY ASSURANCE

A. NFPA-30, Flammable and Combustible Liquids Code

B. Material standards:

1. UL listing of all products for use with gasoline and diesel fuel;

2. Malleable Iron Threaded Fittings, Class 150 and 300;

3. ASTM A53-94: Specifications for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated (Galvanized) Welded and Seamless, for Ordinary Uses; and

4. ANSI B31: American National Standard Code for Pressure Piping.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION

3.01 PIPING SYSTEMS - GENERAL

A. The following applies to all piping systems provide under this Contract, except where otherwise noted:

1. Piping systems shall be installed with adequate provisions made for expansion and to prevent stresses on valves and equipment. Provide adequate pipe anchors and guides and support from structure.

2. Pitch piping to drain and make provisions to drain piping to the satisfaction of Owner or Engineer. Provide auxiliary drains where necessary.

3. Provide unions or flanges at each final connection and at each piece of equipment. Piping shall be arranged and unions and flanges located to permit easy cleaning.

4. Make connections to equipment as recommended by the manufacturer or as specified on Drawings.

5. Piping shall be arranged in accordance with best standards of trade with risers plumb.

6. Ball valves shall be sized appropriately for system and located as specified on Drawings.

END OF SECTION

SECTION 33 56 13

FUEL-STORAGE TANK COMPONENTS

PART 1 - GENERAL

1.01 SUMMARY

A. **Section Includes:** Provision of all items of equipment including sumps, piping, pump, dispenser, shut-off valves, fittings, sensors, unions, etc.

1.02 SUBMITTALS

A. Refer to Section 01 33 00 for additional submittal requirements.

B. Submit manufacturer's product data, installation details, and shop drawings for all pieces of equipment.

C. Submit Contractor's Ohio State Fire Marshal's Office Tank Installer Certification (per OAC 1301: 7-9-11). **At least one certified tank installer shall be on site during installation of aboveground storage tank and associated components, including all Work of Section 33 56 13.**

D. **Safety Data Sheets** for materials and supplies listed in Hazard Communication Standard (29 CFR 1926.59) and replacement materials.

1.03 DELIVERY, STORAGE, AND HANDLING

A. Deliver material in its original shipping containers.

B. Store material in original containers in a dry space off the ground, covered, and secured.

C. Handle items to prevent damage to both equipment and finishes.

1.04 LICENSES, PERMITS, AND CERTIFICATIONS

Maintain current licenses, permits, and certifications as required by applicable federal, state, or local jurisdictions for Work of this Contract. Contractor is responsible for submittal and cost of all required licenses, permits, and certifications.

1.05 CERTIFICATE OF PLAN APPROVAL

A. Submit Drawing(s) for Plan Approval to Ohio Department of Commerce, Division of Industrial Compliance and Division of State Fire Marshal. Obtain Certificate(s) of Plan Approval and associated Addenda and post them as required by Ohio Basic Building Code.

B. Fees for plan examination(s) shall be included in Bid.

1.06 INSPECTION

A. Work shall be inspected by Ohio Department of Commerce, Division of Industrial Compliance and Division of State Fire Marshal, by applicable Inspector noted on "Certificate of Plan Approval."

B. Upon completion of Work, furnish to Engineer a Certification of Inspection and Approval from said Inspector(s) before requesting final payment.

C. Fee for all required inspections shall be included in Bid.

1.07 ORDINANCES, REGULATIONS, AND CODES

A. Work shall be completed in strict compliance with federal, state, and local ordinances and regulations in force at time of execution of Contract including Ohio Basic Building Code and any local codes or ordinances as interpreted by local authorities having jurisdiction.

B. Update of fuel dispenser weight and measures stickers shall be obtained from local authority at completion of Work.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

Engineer's design and estimate are based on equipment and manufactures listed in documents or, if compatible, equal.

2.02 PIPING AND FITTINGS

A. Steel Pipe: ASTM A53, black steel schedule 40, threaded.

B. Fittings: ANSI B16.3 screwed 150 lb black malleable iron.

C. Piping material shall meet NFPA 30 requirements.

2.03 STEEL MANWAY

A. Unit shall be composed of steel and have a nominal diameter of 36 inches with a 10-inch tall steel frame assembly.

B. Top of unit shall be flush with existing concrete.

C. Equal manufacturers: EMCO Wheaton, Franklin Fuel Systems, and Fairfield Industries.

2.04 BALL VALVE

Apollo Series 70. Equal Manufacturers: Watts, Jenkins, Hammond, and Nibco.

2.05 DISPENSER

A. Wayne Select Series, single-hose dispenser; electronic display with sale totalizer to $999.00 limit. Single product as specified on Drawings.

B. Cabinet shall be glass fiber, stainless steel, or aluminum panels with aluminum or painted steel frame. Removable lockable panels for access to piping and controls.

C. Furnish with break-off valve, solenoid valve, easy to read black-on-orange liquid crystal display, electromechanical totalizer, hose, nozzle, solid state pulsers, 120 Volt single phase compatible with existing remote dispenser control panel.

D. Capacity 23 GPM, light, hose hanger hooks, internal hose retraction reels and nylon cable, 35 micron replaceable paper filters, electronic computer module with CPU, power supply, memory module, magnetic proximity handle switch, programmable management system with password.

E. Diesel compatible and up to 15 percent by volume of ethanol, methanol, or MTBE. UL listed with NTEP Certificate of Conformance.

F. Unless specified otherwise, Equal Manufacturers: Tokheim, Gilbarco, Gasboy, or Bennett.

2.06 DISPENSER HOSE

A. Hose from dispensing unit mounted on tank to nozzle shall be Goodyear Model Flexsteel-Hardwall 1-inch size petroleum dispensing hose. Hose shall meet approval of UL 330 and ULC. Branding shall read: Goodyear 559N, Made in USA. 1" UL, ULC. Listed Flexsteel Hardwall Gasoline Hose. Cover shall be black. Hose length shall be 18 feet long. Equal Manufacturers: Morrison Brothers Company, Franklin Fuel Systems, and OPW Fuel Management Systems.

B. Contact fitting manufacturer for proper connections. Fittings shall be connected to hose by authorized personnel.

2.07 HOSE RETRIEVER

Pemco cast iron hose retriever Model 360P. Equal Manufacturers: Franklin Fuel Systems and OPW Fuel Management Systems.

2.08 DISPENSER NOZZLE

A. OPW model 7H automatic shut off nozzle. Nozzle shall automatically close and be for proper dispensing of gasoline or diesel fuel as required. Body shall be constructed of aluminum with Teflon packing and a Viton disc. Inlet size to be 1-inch NPT.

B. Equal Manufacturers: Morrison Brothers Company, Gasboy, Bennett, Tokheim, or Gilbarco.

2.09 DISPENSER SUMP

A. Unit shall be composed of high density polyethylene construction. Unit shall be deep enough to contain electrical junction box, piping, and sump sensor. Unit shall be selected for dispenser manufacturer with which it is intended to be mounted. Selecting a general size of sump for all dispenser applications is unacceptable.

B. Modifications to the sump may be required to mount sump under dispenser in the floating dock.

C. Equal Manufacturers: Morrison Brothers Company, Franklin Fuel Systems, and OPW Fuel Retail Fueling.

2.10 LEAK DETECTION SYSTEM

A. Components shall be compatible with existing Veeder-Root TLS350 Plus monitoring system.

B. Non-discriminating sensors shall be placed in each transition sump with polymer strip to detect presence of petroleum products in sump.

C. Liquid Sensor: Liquid horizontal float sensor shall continually monitor presence of water or hydrocarbons inside interstitial space of storage tank.

2.11 DOUBLE WALL PIPING

A. Piping shall be composed of Hope/Plastic or fiberglass reinforced plastic.

B. Compatible enry boots, test boots, and fittings shall be used.

C. Annular space shall be capable of being pressure/vacuum tested.

D. Equal manufacturers: OPW Retail Fueling, Franklin Fueling Systems, A.O. Smith, and Ameron.

2.12 SUBMERSIABLE TURBINE PUMP

A. Provide pump with fixed speed motor meeting requirements specified on Drawings.

B. Unit shall be adjustable in length and be UL labeled. Unit shall be for specified use.

C. Unit shall be equipped with compatible line leak detector.

2.13 TANK SUMPS

A. APT Poly-Tech AST-2922 Transition Sump. Unit shall be composed of high density polyethylene construction with load rated composite cover. Cover shall be bolted and gasketed to make water-tight seal. Bolts shall be stainless steel. Unit shall be equipped with hold down lugs.

B. Sump penetrations shall be made with specified flexible entry boots with stainless steel banding

C. Unit shall be buried and blackfilled per manufacturers recommendations. Unit shall be buried to a depth that will allow for clearance of three inches to underside of 36-inch steel manway with frame assembly. Backfill shall be pea gravel and not sand.

D. Nominal diameter of units shall be 33 inches.

E. Equal manufacturer's: Franklin Fuel Systems and OPW Retail Fueling.

PART 3 - EXECUTION

3.01 INSTALLATION

Install piping and equipment according to manufacturer's recommendations.

END OF SECTION

SECTION 00 01 10
TABLE OF CONTENTS

END OF SECTION

CODE INFORMATION

BUILDING DESCRIPTION: NEW BUILDING/ADDITION TO BUS STORAGE BUILDING

APPLICABLE CODE: 2024 OHIO BUILDING CODE

OCCUPANTS: 64

NUMBER OF EXITS:
REQUIRED: 2
ACTUAL: 8

DESIGN UNIFORM LOAD: SEE STRUCTURAL SHEETS

OCCUPANCY / USE GROUP: S-1 & S-2

CONSTRUCTION TYPE: TYPE V-B

REQUIRED PLUMBING FIXTURES:
MALE WATER CLOSETS: 1
FEMALE WATER CLOSETS: 1
MALE LAVATORIES: 1
FEMALE LAVATORIES: 1
SERVICE SINK: 1
DRINKING FOUNTAIN: 1

ACTUAL PLUMBING FIXTURES:
TWO UNISEX RESTROOMS A SERVICE SINK AND A DRINKING FOUNTAIN PROVIDED IN THE EXISTING BUILDING.

BUILDING AREAS 1 AND 2

OCCUPANCY / USE GROUP: S-1, S-2
(MIXED-USE, NON-SEPARATED)

CONSTRUCTION TYPE: TYPE V-B

ALLOWABLE AREA (TABLE 506.2):
S-1 = 9,000 SF
S-2 = 13,500 SF

FRONTAGE INCREASE FACTOR (TABLE 506.3.3)
30' OPEN SPACE FOR 100% OF PERIMETER EQUALS 75% AREA INCREASE.

ALLOWABLE AREA WITH FRONTAGE INCREASE:
S-1 = 15,750 SF
S-2 = 23,625 SF

ACTUAL AREA:
S-1 = 4,969 SF
S-2 = 12,883 SF

NON-SEPARATED ALLOWABLE AREA CHECK:
(4,969/15,750) + (12,883/23,625) <= 1.0
.315 + .545 <= 1.0
.860 <=1.0

ROOM INDEX - OVERALL

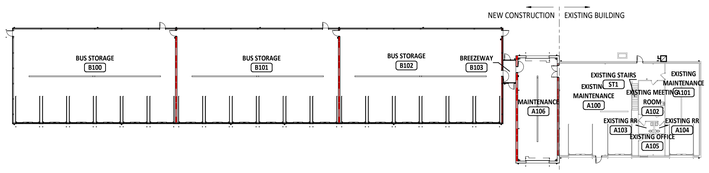
ROOM NUMBER	ROOM NAME	USE GROUP	AREA	OCCUPANT LOAD FACTOR	OCCUPANT(S)	NUMBER OF EXITS
A100	EXISTING MAINTENANCE	S-1	2,079 SF	300	7	2
A101	EXISTING MAINTENANCE	S-1	865 SF	300	3	
A102	EXISTING MEETING ROOM	S-1	282 SF	75	4	
A103	EXISTING RR	S-1	48 SF	0		
A104	EXISTING RR	S-1	32 SF	0		
A105	EXISTING OFFICE	S-1	147 SF	150	1	
A106	MAINTENANCE	S-1	1,111 SF	300	4	
A200	EXISTING MEZZANINE	S-1	539 SF	300	2	
B100	BUS STORAGE	S-2	4,197 SF	300	14	2
B101	BUS STORAGE	S-2	4,162 SF	300	14	1
B102	BUS STORAGE	S-2	4,197 SF	300	14	1
B103	BREEZEWAY	S-2	77 SF	150	1	2
ST1	EXISTING STAIRS	S-1	48 SF	0		

CODE PLAN LEGEND

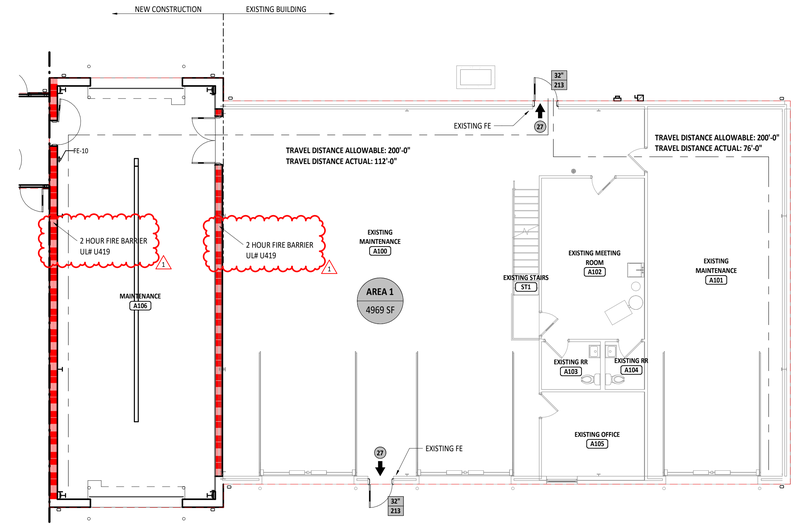
(X) — OCCUPANT LOAD THROUGH EXIT

XX" — CLEAR EXIT WIDTH
XXX — ALLOWABLE NUMBER OF OCCUPANTS THROUGH EXIT

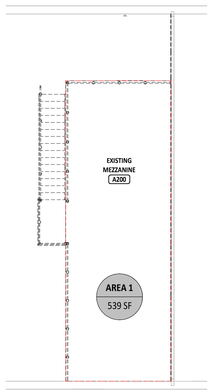
2 HOUR FIRE BARRIER (2FB)
3 HOUR FIRE BARRIER (3FB)



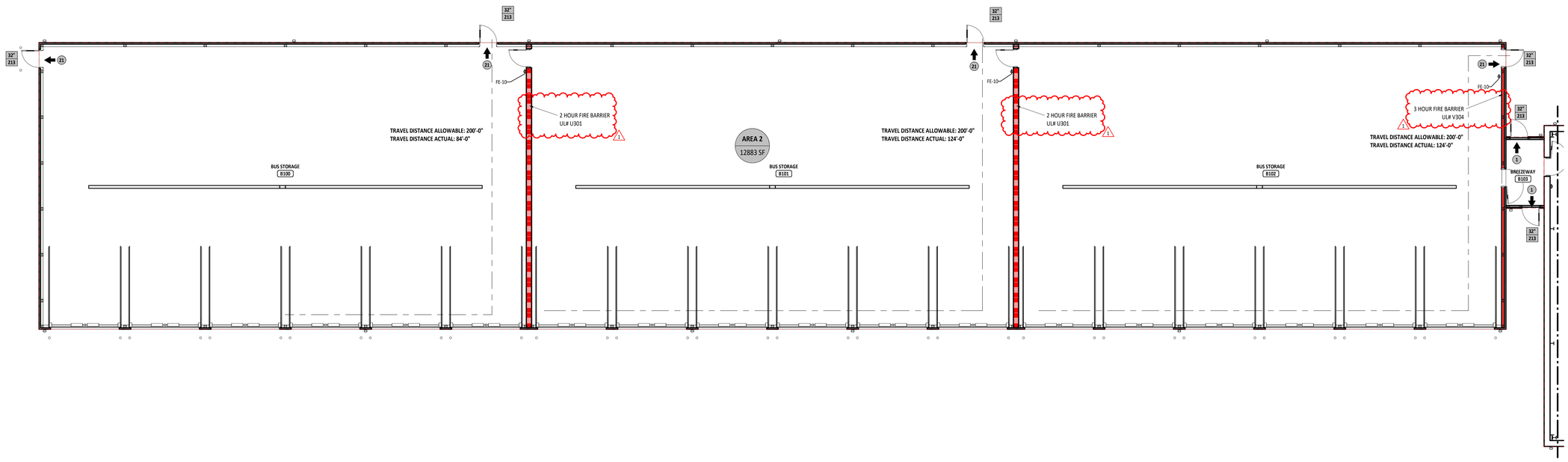
3 G1.0 **FIRST FLOOR CODE PLAN - OVERALL**
1/32" = 1'-0"



2 G1.0 **FIRST FLOOR CODE PLAN - UNIT A**
1/8" = 1'-0"



4 G1.0 **ENLARGED MEZZANINE CODE PLAN - UNIT A**
1/8" = 1'-0"



1 G1.0 **FIRST FLOOR CODE PLAN - UNIT B**
1/8" = 1'-0"

STATE OF OHIO
MATTHEW R. HIBNER
1416052
REGISTERED ARCHITECT

MATTHEW R. HIBNER
LICENSE #1416052
EXPIRATION DATE: 12/31/2027

GARMANN MILLER
MARION, OHIO | COLUMBUS, OHIO | INDIANAPOLIS, INDIANA | FORT WAYNE, INDIANA
mmmgm.com

ADDITION TO:
LAKOTA LOCAL SCHOOLS BUS BUILDING
5186 COUNTY ROAD 13, KANSAS, OHIO 44841

ISSUANCES/REVISIONS		
	CONSTRUCTION DOCUMENTS	04/24/2026
1	ADDENDUM 01	05/11/2026

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
25055.00	BER	RJH

SHEET TITLE:
FIRST FLOOR CODE PLAN

SHEET NUMBER:
G1.0

PRINTED ON: 5/11/2026 3:06:45 PM

- NOTE:

	ABBREVIATIONS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW.

- CHARACTERS

# / NO	NUMBER
° / DEG	DEGREE
Ø / DIA	DIAMETER
□ / SQ	SQUARE
'	FEET
"	INCH
L	ANGLE
&	AND
@	AT
d	PENNY (NAILS)
=	EQUAL

- MEASUREMENTS

°C	CELCIUS
°F	FAHRENHEIT
AC	ACRES
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CI	CUBIC INCH
CY	CUBIC YARD
Db	DECIBEL
IN	INCH
FT	FEET
HR	HOUR
GAL	GALLONS
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
KG	KILOGRAM
KW	KILOWATT
KWH	KILOWATT PER HOUR
LB	POUND
LF	LINEAR FOOT
M	METER
MIN	MINUTE
MM	MILLIMETER
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
SI	SQUARE INCH
SY	SQUARE YARD

A

AB	ANCHOR BOLT
AC	AIR CONDITIONING
ACC	ACCESSIBLE
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADD	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFP	ACCORDION FOLDING PARTITION
AGGR	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
ANCH	ANCHOR
ANOD	ANODIZED
AP	ACCESS PANEL
APPD	APPROVED
APPROX	APPROXIMATE
AR	ACID RESISTANT
ARCH	ARCHITECTURAL
ASPH	ASPHALT
AUTO	AUTOMATIC
AV	AUDIO-VISUAL
AWT	ACOUSTICAL WALL TREATMENT

B

BEJ	BRICK EXPANSION JOINT
BD	BOARD
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM / BENCHMARK
B/O	BOTTOM OF
BOT	BOTTOM
BRG	BEARING
BS	BOILER STACK
BSMT	BASEMENT
BT	BOLT
BUR	BUILT-UP ROOF
BYND	BEYOND

C

C	CLOSURE
CAB	CABINET
CAT	CATEGORY
CB	CATCH BASIN
CBD	CHALKBOARD
CBU	CEMENTITOUS BACKER UNIT
CEM	CEMENT
CER	CERAMIC
CG	CORNER GUARD
CH	CABINET HEATER / CEILING HEIGHT
CHNL	CHANNEL
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASORNY UNIT
CNTR	COUNTER
CO	CLEANOUT
COL	COLUMN
COMP	COMPACT
COMPR	COMPRESSIBLE
CONC	CONCRETE
COND	CONDITION
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINOUS / CONTINUE
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRUGATED / CORRIDOR
CPT	CARPET
CT	CERAMIC TILE
CTR	CENTER
CTSK	COUNTER SINK
CTYD	COURTYARD
CW	COLD WATER
CWF	CEMENTITOUS WOOD FIBER

D

D	DEPTH
DA	DISABLED
DBL	DOUBLE
DC	DISPLAY CASE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DL	DEAD LOAD
DMPF	DAMPPROOFING
DMT	DEMOUNTABLE
DN	DOWN
DO	DOOR OPENING
DP	DIMENSION POINT
DPTN	DEMOUNTABLE PARTITION
DR	DOOR
DRN	DRAIN
DS	DOWNSPOUT
DW	DISHWASHER
DWC	DRINKING WATER COOLER
DWG	DRAWING
DWR	DRAWER

E

E	EAST
EA	EACH
EB	EXPANSION BOLT
EF	EACH FACE
EFS	DIRECT APPLIED EXTERIOR FINISH SYSTEM
EFIS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMERG	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EP	ELCTRICAL PANELBOARD
EMPD	ETHYLENE PROPYLENE DIENE M-CLASS ROOFING
EPX	EPOXY
EQ	EQUAL
EQUIP	EQUIPMENT
ESCAL	ESCALATOR
EW	EACH WAY
EXH	EXHAUST
EX/EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
EXTN	EXTENSION

F

FA	FIRE ALARM
FB	FACE BRICK
FC	FACE
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FE	FIRE EXTINGUISHER / FINISH END
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FF&E	FURNITURE, FINISHES & EQUIPMENT
FH	FLAT HEAD
FHC	FIRE HOSE CABINET
FIN	FINISH
FIXT	FIXTURE
FLR	FLOOR
FLASH	FLASHING
FLOUR	FLOURESCENT
FM	FILLED METAL
FND	FOUNDATION
F/O	FACE OF
FP	FIRE PROTECTION
FPG	FIREPROOFING
FR	FRAME
FRTW	FIRE RETARDANT TREATED WOOD
FSR	FLEXIBLE SHEET ROOFING
FSSK	FLOOR SERVICE SINK
FTG	FOOTING
FURN	FURNITURE
FURR	FURRING
FWC	FABRIC WALLCOVERING
FWP	FABRIC WALL PANEL
FVC	FIRE VALVE CABINET

G

G / GRD	GROUND
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GFCMU	GROUND-FACED CONCRETE MASONRY UNIT
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRGU	GLASS FIBER REINFORCED GYPSUM UNIT
GL	GLASS
GR	GRADE
GWB	GYPSUM WALLBOARD

H

HB	HOSE BIBB
HC	HOLLOW CORE
HCP	HAN
HDW	HARDWARE
HDWD	HARDWOOD
HGT	HEIGHT
HM	HOLLOW METAL (STEEL FRAME)
HNDRL	HANDRAIL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HRC	HOSE REEL CABINET
HS	HIGH STRENGTH
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HW	HOT WATER
HWY	HIGHWAY
HYDR	HYDRAULIC

I

ID	INSIDE DIAMETER
ILO	IN LIEU OF
INCAND	INCANDESCENT
INCL	INCLUDE
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INTERM	INTERMEDIATE
INV	INVERT
IRGWB	IMPACT RESISTANT GYPSUM WALLBOARD

J

JAN	JANITOR
JC	JANITORIAL CLOSET
JST	JOIST
JT	JOINT

K

K	KNURLED
KIT	KITCHEN
KPL	KICK PLATE
KO	KNOCKOUT

L

L	LENGTH
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LDG	LANDING
LKR	LOCKER
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LN	LINE
LPT	LOW POINT
LT	LIGHT
LVR	LOUVER
LW	LONG WAY

M

MACH	MACHINE
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MBL	MARBLE
MFD	MEDIUM DENSITY FIBERBOARD
MEP	MECHANICAL, ELECTRICAL & PLUMBING
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MOP HANDLE / MAN HOLE
MIN	MINIMUM / MINUTE
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MRGWB	MOISTURE-RESISTANT GYPSUM WALLBOARD
MRT	MORTAR
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MULL	MULLION

N

N	NORTH
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE

O

OA	OUTSIDE AIR
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OFF	OFFICE
OH	OVERHEAD
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OUTS	OUTSIDE
OVHD	OVERHEAD
OW	OPERABLE WALL

P

P	PAINT
PA	PUBLIC ADDRESS
PAV	PAVING
PARTN	PARTITION
PATD	PAPER TOWEL DISPENSER
PBD	PARTICLEBOARD
PC	PRECAST CONCRETE
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PL	PROPERTY LINE / PLATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
POL	POLISHED
PR	PAIR
PREFAB	PREFABRICATED
PROJ	PROJECT
PS	PROJECTION SCREEN
PSS	PENCIL SHARPENER SUPPORT
PT	PAINT
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
PV	PAVERS
PVC	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT

Q

QT	QUARRY TILE
QTY	QUANTITY

R

R	RADIUS
RA	RETURN AIR
RB	RESILIENT BASE
RBR	RUBBER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
RECOM	RECOMMENDED
RECPT	RECEPTACLE
REF	REFERENCE
REFL	REFLECT
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE
REM	REMOVABLE
REQD	REQUIRED
RESIL	RESILIENT
REV	REVISION
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTD	RATED
RTG	RATING

S

S	SOUTH
SA	SUPPLY AIR
SAN	SANITARY
SC	SOLID CORE
SCWD	SOLID CORE WOOD DOOR
SCHED	SCHEDULE
SD	STORM DRAIN / SMOKE DETECTOR
SECT	SECTION
SEW	SEWER
SFCMU	SPLIT-FACED CONCRETE MASONRY UNIT
SGFT	STRUCTURAL GLAZED FACING TILE
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SLR	SEALER
SM	SHEET METAL
SND	SANITARY NAPKIN DISPENSER
SPECS	SPECIFICATIONS
SPKR	SPEAKER
SPH	SPRINKLER HEAD
SPR	SPRINKLER
SQ	SQUARE
SS	STAINLESS STEEL
SSE	STRUCTURAL SLAB ELEVATION
SSF	SOLID SURFACE
SSK	SERVICE SINK
ST	STORM / STREET
STA	STATION
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STE	SUITE
STL	STEEL
STLST	STEEL JOIST
STN	STAIN
STOR	STORAGE
STRG	STRINGER
STRUCT	STRUCTURAL
SUBCAT	SUBCATEGORY
SUSP	SUSPENDED
SW	SHORT WAY / SIDEWALK
SYMM	SYMMETRICAL
SYNTH	SYNTHETIC
SYS	SYSTEM

T

T	TREAD / THERMOSTAT
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TA	TOILET ACCESSORY
TB	TOWEL BAR
TEL	TELEPHONE
TEMP	TEMPERATURE
TER	TERRAZZO
THK	THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TKBD	TACKBOARD
TMPD	TEMPERED
T/O	TOP OF
TPD	TOILET PAPER DISPENSER
TS	TRANSITION STRIP
TV	TELEVISION
TYP	TYPICAL
TWS	TACKABLE WALL SURFACE

U

UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
UR	URINAL

V

VAC	VENTILATION AND AIR CONDITIONING
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VIT	VITREOUS
VOL	VOLUME
VR	VAPOR RETARDER
VRB	VENTED RESILIENT BASE
VS	VENT STACK
VT	VINYL (ENHANCED / COMPOSITION) TILE
VWC	VINYL WALL COVERING

W

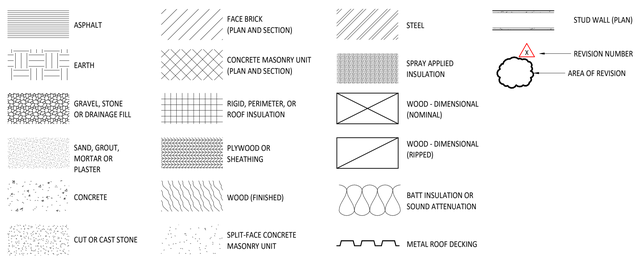
W	WEST / WIDTH
W/	WITH
W/O	WITHOUT
WA	WARDROBE ACCESSORIES
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WGT	WEIGHT
WH	WATER HEATER
WP	WATERPROOFING
WPM	WATERPROOF MEMBRANE
WR	WATER RESISTANT / REPELLANT
WS	WEATHERSTRIPPING
WSCT	WAINSCOT
WSSK	WALL SERVICE SINK
WT	WINDOW TREATMENT
WVR	WOOD VENEER
WW	WALL TO WALL
WWF	WELDED WIRE FABRIC

Y

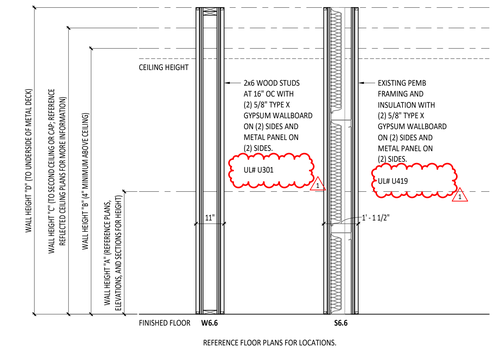
YD	YARD / YARD DRAIN

ABBREVIATIONS

MATERIAL SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

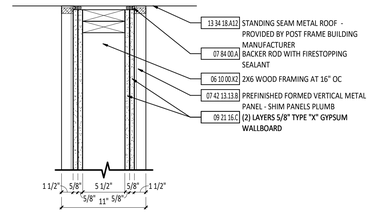


DRAWLING AND MATERIAL SYMBOLS LEGEND

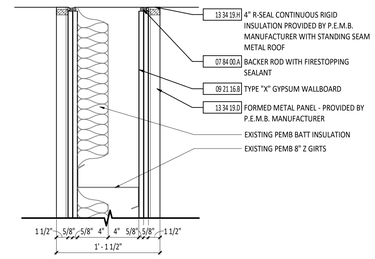


REFERENCE FLOOR PLANS FOR LOCATIONS.

1 A0.1 **STUD WALL TYPES (S)**
1/2" = 1'-0"



2 A0.1 **WALL TERMINATION - FIRESTOPPING (UL #U301)**
1 1/2" = 1'-0"
1



3 A0.1 **WALL TERMINATION - FIRESTOPPING (UL #U419)**
1 1/2" = 1'-0"
1

GENERAL NOTES

A REFERENCE GENERAL CONSTRUCTION NOTES AND SPECIFICATIONS FOR MORE INFORMATION AND BID ALTERNATES.

B REFERENCE SPECIFICATIONS AND DRAWINGS FOR SPECIAL REQUIREMENTS AND CONDITIONS.

C FINISH FIRST FLOOR ELEVATION INDICATED FOR THE NEW WORK IS 100'-0". REFERENCE SITE DRAWINGS FOR RELATIONSHIP TO U.S.G.S. DATUM. ELEVATIONS OF EXISTING ELEMENTS RELATIVE TO 100'-0" SHALL BE FIELD VERIFIED BY THE CONTRACTOR(S). CONTRACTOR(S) SHALL NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

D THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE WORK IS COMPLETE. CONTRACTOR(S) SHALL DETERMINE THE CONSTRUCTION PROCEDURES AND SEQUENCES AND ENSURE THE INTEGRITY OF THE WORK AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES SHORING, SHEATHING, TEMPORARY ENCLOSURES AND TEMPORARY POSITIVE WATER DRAINAGE FROM THE SITE AND ALL BUILDING ROOFS.

E CONTRACTOR(S) SHALL MAINTAIN ALL LEGAL EGRESS FROM THE WORK TO COMPLY WITH APPLICABLE BUILDING CODES, SAFETY REGULATIONS AND THE DISCRETION OF THE GOVERNING LOCAL BUILDING CODE AUTHORITIES FOR THE HEALTH, SAFETY AND WELFARE OF THE PUBLIC FOR NORMAL ACTIVITIES AND EMERGENCY EGRESS FROM THE WORK. THE CONTRACTOR(S) SHALL FURNISH AND INSTALL ANY TEMPORARY WALLS, DOORS, HARDWARE PARTITIONS, SCREENS, ENCLOSURES AND PEDESTRIAN PROTECTIONS TO MAINTAIN SUCH LEGAL EGRESS.

F CONTRACTOR(S) SHALL VERIFY ALL DIMENSIONS AND CLEARANCES BEFORE PROCEEDING WITH THE WORK. COMMENCEMENT OF THE WORK, BY THE CONTRACTOR(S), CONSTITUTES ACCEPTANCE OF THE EXISTING CONDITIONS. CONTRACTOR(S) SHALL NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

G ALL CIP CONCRETE CURBS AND EQUIPMENT PADS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR RESPONSIBLE FOR THE ASSOCIATED WORK.

H DIFFERENT FLOOR FINISH MATERIALS SHALL MEET UNDER THE CENTERLINE OF THE DOOR IN THE CLOSED POSITION UNLESS NOTED OR DETAILED OTHERWISE.

J FURNISH AND INSTALL CASING BEAD AT ALL LOCATIONS WHERE GYPSUM WALLBOARD ABUTS DISSIMILAR MATERIALS. TYPICAL UNLESS NOTED OR DETAILED OTHERWISE.

Q IF FRAME WIDTH DOES NOT MATCH WALL WIDTH, DOOR AND BORROWED LITE FRAMES SHALL BE INSTALLED TO THE CORRIDOR OR PASSAGE SIDE OF THE WALL UNLESS NOTED OR DETAILED OTHERWISE. NON-CORRIDOR OR NON-PASSAGE FRAMES FROM ROOM TO ROOM SHALL BE FURNISHED AND INSTALLED TO THE SIDE OF THE WALL FACING THE LARGER ROOM. REFERENCE DOOR AND WINDOW DETAILS FOR FRAME LOCATIONS RELATIVE TO THE WALL ONLY. DEDICATED WINDOW FRAMES SHALL BE FURNISHED AND INSTALLED TO THE CENTERLINE OF THE WALL CROSS SECTION.

R INTERIOR FINISHES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE LOCAL BUILDING CODE AUTHORITY HAVING JURISDICTION OVER THE WORK, AS WELL AS ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES AND REGULATIONS.

V REFERENCE FLOOR PLANS FOR FIRE EXTINGUISHER (FE) AND FIRE EXTINGUISHER CABINET (FEC) LOCATIONS.

X THE GENERAL TRADES CONTRACTOR IS REQUIRED TO CUT AND PATCH ANY OPENINGS LARGER THAN 8" AS REQUIRED FOR ANY FOOD SERVICE, PLUMBING, MECHANICAL, ELECTRICAL AND FIRE PROTECTION CONTRACTOR(S) TO FURNISH AND INSTALL THEIR WORK. CUTTING AND PATCHING INCLUDING CUTTING FLOOR AND/OR WALL, EXCAVATING, BACK FILLING, PATCHING AND REPAIR AS REQUIRED TO MATCH EXISTING ADJACENT SURFACE TO ACCEPT NEW FINISH. REFERENCE ENGINEERING DRAWINGS FOR LOCATIONS OF WORK TO BE PERFORMED. THIS INCLUDES ALL AREAS NOT SPECIFICALLY NOTED BUT REQUIRING CUTTING AND PATCHING.

Y REFERENCE CODE PLANS, FLOOR PLANS, REFLECTED CEILING PLANS AND WALL SECTIONS FOR RATED ASSEMBLIES.

AA OPENINGS IN ROOF FOR ROOFTOP EQUIPMENT SHALL BE CUT BY THE ROOFING CONTRACTOR. THE ASSOCIATED CONTRACTOR SHALL COORDINATE LOCATIONS OF SUCH OPENINGS WITH THE ROOFING CONTRACTOR. EQUIPMENT CURBS ARE TO BE FURNISHED BY THE ASSOCIATE CONTRACTOR AND INSTALLED BY THE ROOFING CONTRACTOR.

BB REFERENCE PLUMBING DRAWINGS FOR ALL VENT STACK LOCATIONS. COORDINATE LOCATIONS OF SUCH PENETRATIONS WITH THE CONTRACTOR(S).

CC REFERENCE MECHANICAL DRAWINGS FOR ALL FLUE LOCATIONS. COORDINATE LOCATIONS OF SUCH PENETRATIONS WITH THE CONTRACTOR(S).

DD THE CONTRACTOR SHALL PROTECT ALL ROOF DRAINS, SCUPPERS AND DOWNSPOUTS FROM DEBRIS CREATED DURING DEMOLITION AND CONSTRUCTION. THE CONTRACTOR SHALL INSPECT AND CLEAR ALL ROOF DRAINS, SCUPPERS AND DOWNSPOUTS PRIOR TO THE COMPLETION OF THE WORK AND TO ENSURE THAT ALL ROOF DRAINS, SCUPPERS AND DOWNSPOUTS ARE FREE OF DEBRIS AND ARE FUNCTIONING PROPERLY AT PROJECT COMPLETION.

EE ALL TYPICAL ROOFING DETAILS ARE SHOWN FOR GENERAL INFORMATION. ALL FINAL FLASHING CONDITIONS SHALL MEET THE APPROVAL OF THE ROOFING MANUFACTURER. ALL DETAIL MODIFICATIONS MUST HAVE SHOP DRAWING APPROVAL.

FF INSTALL ALL FLASHING AND APPROPRIATE CRICKETS FOR ALL ROOFTOP PENETRATIONS.

II IN THE EVENT OF INCONSISTENCIES WITHIN OR BETWEEN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY OR GREATER QUALITY OF WORK AND SHALL COMPLY WITH THE STRICTER REQUIREMENTS.

JJ BASIC DEFINITIONS: 'FURNISH' SHALL MEAN TO PURCHASE AND DELIVER PRODUCT TO THE SITE READY FOR INSTALLATION; 'INSTALL' SHALL MEAN TO TAKE FURNISHED PRODUCT AND ASSEMBLE, ERECT, SECURE IN PLACE, CONNECT IN OPERATION AS APPLICABLE; 'PROVIDE' SHALL MEAN TO FURNISH AND INSTALL.

STATE OF OHIO
MATTHEW R. HIBNER 1416052
REGISTERED ARCHITECT
MATTHEW R. HIBNER
LICENSE #1416052
EXPIRATION DATE: 12/31/2027

GARMANN MILLER
ARCHITECTS, OHIO | COLUMBUS, OHIO | INDIANAPOLIS, INDIANA | FORT WAYNE, INDIANA
mmmgm.com

ADDITION TO:
LAKOTA LOCAL SCHOOLS BUS BUILDING
5915 COUNTY ROAD 13, KANSAS, OHIO 44841

ISSUANCES/REVISIONS

	CONSTRUCTION DOCUMENTS	04/24/2026
1	ADDENDUM 01	05/11/2026

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
25055.00	BER	RJH

SHEET TITLE:
GENERAL NOTES, WALL TYPES, ABBREVIATIONS, AND SYMBOLS LEGEND

SHEET NUMBER:
A0.1

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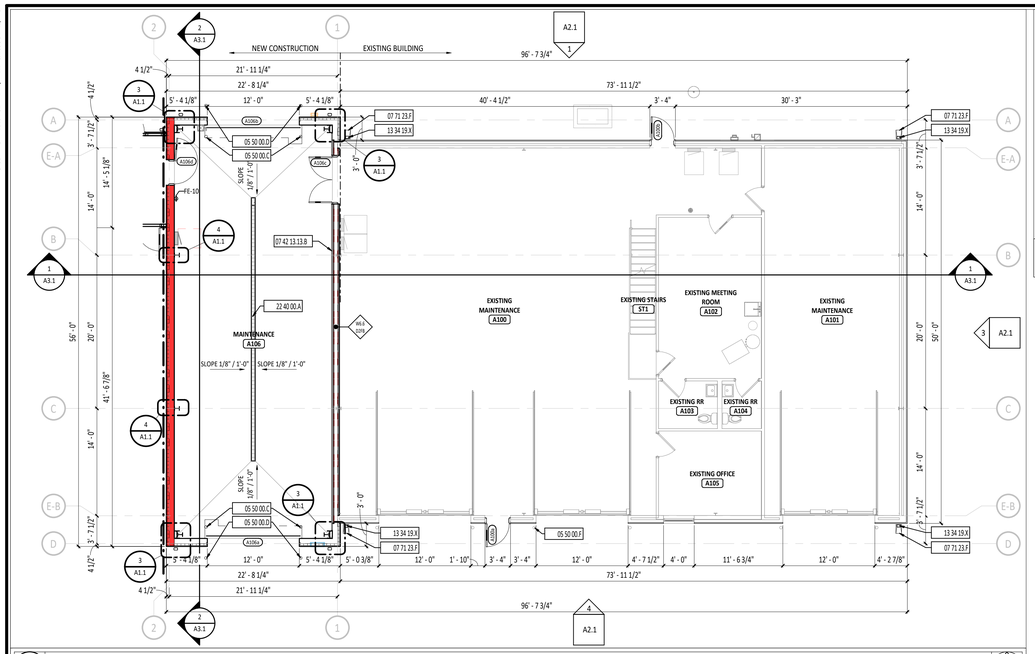
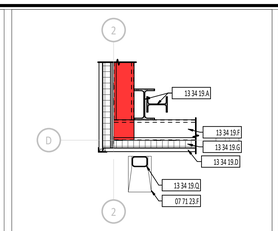
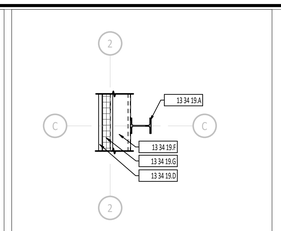


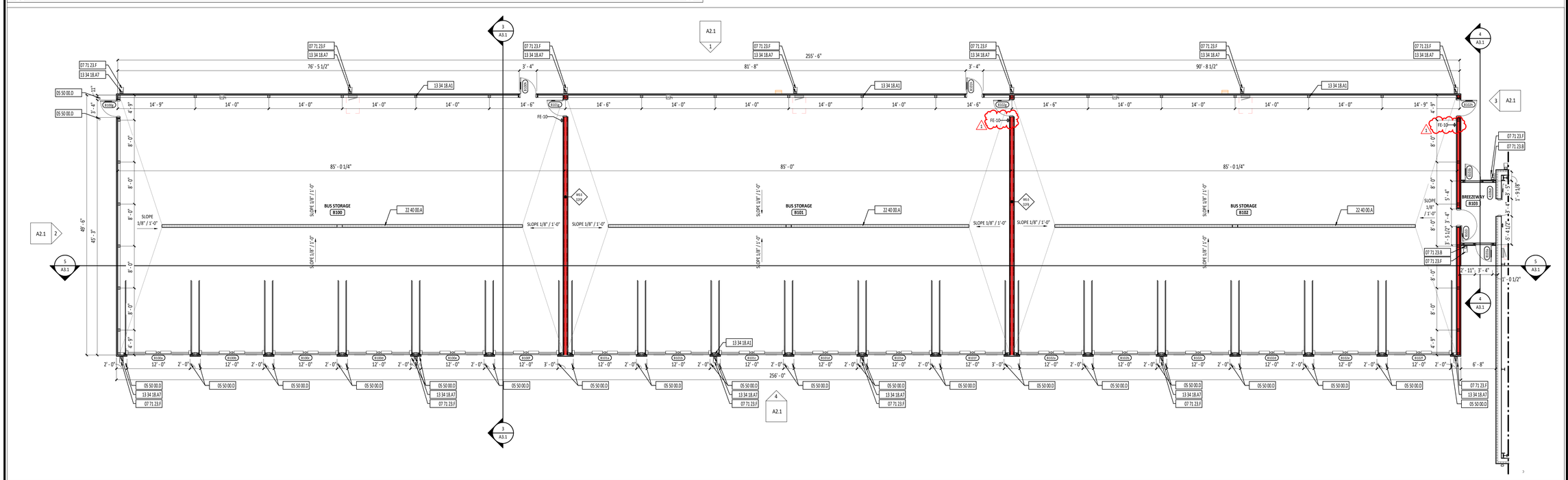
1 A1.1 **FIRST FLOOR PLAN - UNIT A**
1/8" = 1'-0"



3 A1.1 **COLUMN DETAIL**
1/2" = 1'-0"



4 A1.1 **COLUMN DETAIL**
1/2" = 1'-0"



2 A1.1 **FIRST FLOOR PLAN - UNIT B**
1/8" = 1'-0"

FIRST FLOOR PLAN ROOM INDEX - OVERALL

ROOM NUMBER	ROOM NAME	ID	AREA	OCCUPANCY
A100	EXISTING MAINTENANCE		2,079 SF	7
A101	EXISTING MAINTENANCE		865 SF	3
A102	EXISTING MEETING ROOM		282 SF	4
A103	EXISTING RR		48 SF	
A104	EXISTING RR		32 SF	
A105	EXISTING OFFICE		147 SF	1
A106	MAINTENANCE		1,111 SF	4
B100	BUS STORAGE		4,197 SF	14
B101	BUS STORAGE		4,162 SF	14
B102	BUS STORAGE		4,197 SF	14
B103	BREEZEWAY		77 SF	1
ST1	EXISTING STAIRS		48 SF	

FLOOR PLAN GENERAL NOTES

A ALL DIMENSIONS ARE MEASURED TO THE FACE OF MASONRY OR THE FACE OF METAL STUD UNLESS NOTED OTHERWISE.

C INSTALL TREATED WOOD BLOCKING IN WALLS AS REQUIRED TO SECURE ALL EQUIPMENT, ACCESSORIES, HANDRAILS, CASEWORK, ETC. COORDINATE THIS WORK WITH ALL APPROPRIATE CONTRACTORS, SUPPLIERS AND MANUFACTURERS RECOMMENDATIONS.

F HINGE SIDE OF DOOR JAMB AT INTERSECTING WALLS TO BE LOCATED 4" FROM ADJACENT WALL UNLESS NOTED OTHERWISE - REFERENCE FLOOR PLANS.

G IF WALL TYPE IS NOT IDENTIFIED, WALL IS TO RUN FULL HEIGHT TO DECK.

FLOOR PLAN SYMBOLS LEGEND

A101 — ROOM DESIGNATION - REFERENCE ROOM INDEX.

EXTERIOR ELEVATION — DETAIL NUMBER / SHEET NUMBER

SECTION — DETAIL NUMBER / SHEET NUMBER

#	KEYNOTE DESCRIPTION
05 50 00.C	INTERIOR BOLLARD - YELLOW PAINT - REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
05 50 00.D	EXTERIOR GALVANIZED BOLLARD - YELLOW PAINT - REFERENCE ARCHITECTURAL, SITE, AND STRUCTURAL DRAWINGS.
05 50 00.F	EXISTING BOLLARD - YELLOW PAINT ONLY
07 42 13.13.B	PREFINISHED FORMED VERTICAL METAL PANEL - SHIM PANELS PLUMB
07 71 23.B	PREFINISHED METAL DOWNSPOUT
07 71 23.F	SPLASH BLOCK
13 34 18.A1	6X6 TREATED POST - PROVIDED BY POST FRAME BUILDING MANUFACTURER
13 34 18.A7	PREFINISHED METAL DOWNSPOUT - PAINT - PROVIDED BY POST FRAME BUILDING MANUFACTURER
13 34 19.A	PRE-ENGINEERED METAL BUILDING SYSTEM
13 34 19.D	FORMED METAL PANEL - PROVIDED BY P.E.M.B. MANUFACTURER
13 34 19.F	8" Z GIRT PROVIDED BY P.E.M.B. MANUFACTURER
13 34 19.G	3" R-SEAL CONTINUOUS RIGID INSULATION PROVIDED BY P.E.M.B. MANUFACTURER
13 34 19.Q	PREFINISHED METAL DOWNSPOUT - PAINT - BY P.E.M.B. MANUFACTURER
13 34 19.X	EXISTING DOWNSPOUT TO BE REMOVED AND REPLACED TO MATCH THE DOWNSPOUTS ON THE NEW P.E.M.B - PROVIDED BY P.E.M.B. MANUFACTURER.
22 40 00.A	FLOOR DRAIN - REFERENCE PLUMBING DRAWINGS.

FIRE EXTINGUISHER / CABINET SCHEDULE

MARK	DESCRIPTION	NOTES
FE-10	FIRE EXTINGUISHER - 10.0LB - CLASS A:B:C	FURNISHED AND INSTALLED BY GC

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STATE OF OHIO
MATTHEW R. HIBNER
1416052
REGISTERED ARCHITECT

MATTHEW R. HIBNER
LICENSE #1416052
EXPIRATION DATE: 12/31/2027

GARMANN MILLER
MARION, OHIO | COLUMBUS, OHIO | INDIANAPOLIS, INDIANA | FORT WAYNE, INDIANA
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ADDITION TO:
LAKOTA LOCAL SCHOOLS BUS BUILDING
5186 COUNTY ROAD 13, KANSAS, OHIO 44841

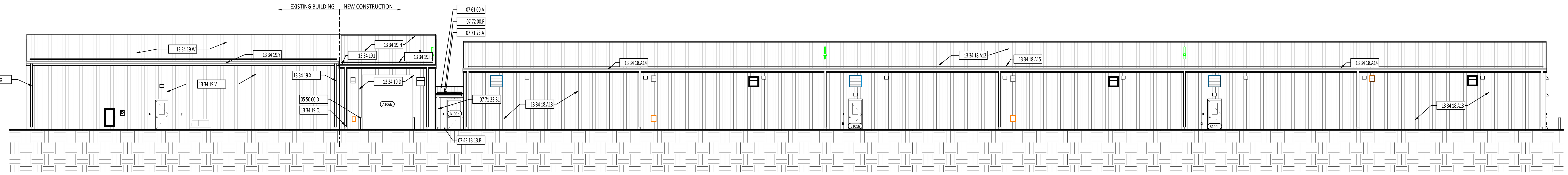
ISSUANCES/REVISIONS

	CONSTRUCTION DOCUMENTS	04/24/2026
1	ADDENDUM 01	05/11/2026

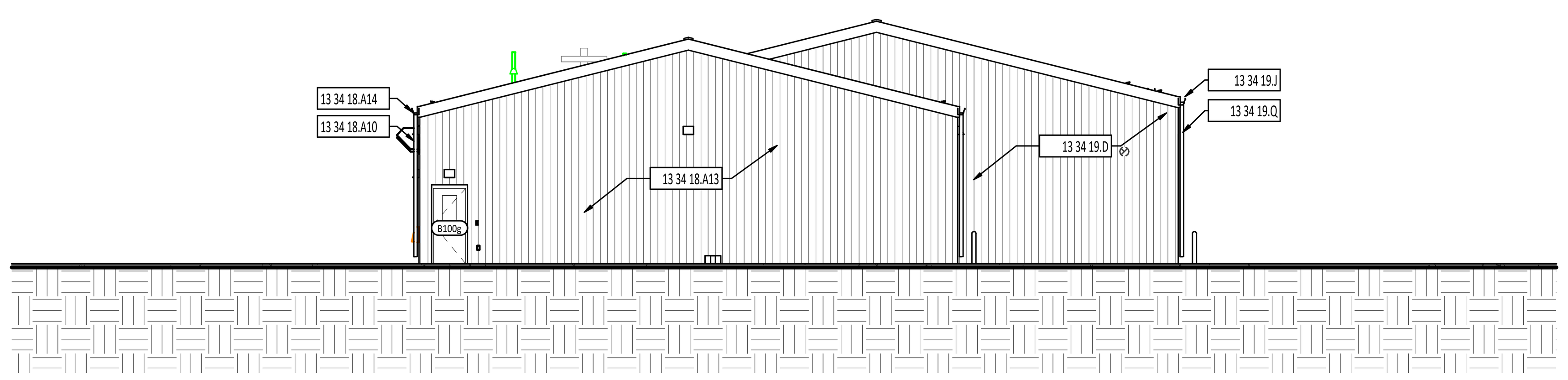
PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
25055.00	BER	RJH

SHEET TITLE:
FIRST FLOOR PLANS AND DETAILS

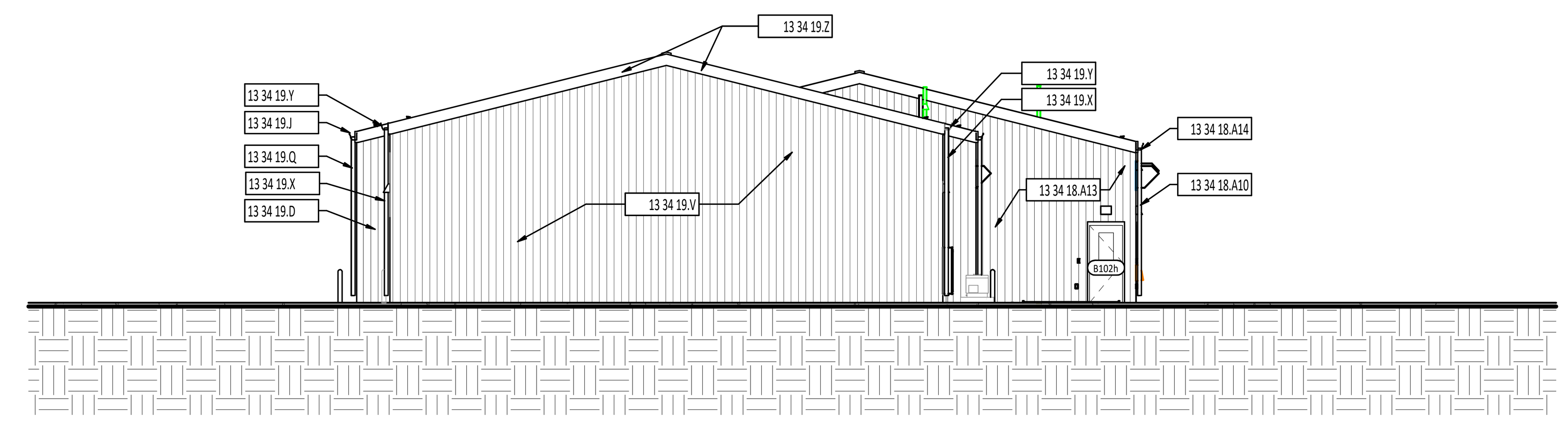
SHEET NUMBER:
A1.1



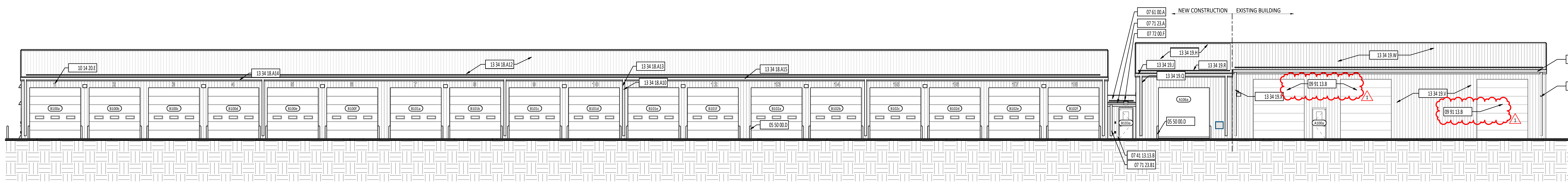
1 A2.1 **NORTH BUILDING ELEVATION**
3/32" = 1'-0"



2 A2.1 **WEST BUILDING ELEVATION**
3/32" = 1'-0"



3 A2.1 **EAST BUILDING ELEVATION**
3/32" = 1'-0"



4 A2.1 **SOUTH BUILDING ELEVATION**
3/32" = 1'-0"

#	KEYNOTE DESCRIPTION
05 50 00.D	EXTERIOR GALVANIZED BOLLARD - YELLOW PAINT - REFERENCE ARCHITECTURAL, SITE, AND STRUCTURAL DRAWINGS.
07 41 13.13.B	
07 42 13.13.B	PREFINISHED FORMED VERTICAL METAL PANEL - SHIM PANELS PLUMB
07 61 00.A	STANDING SEAM METAL ROOFING SYSTEM WITH CODE COMPLIANT ANCHORAGES, TRIM AND FLASHING AS REQUIRED
07 71 23.A	PREFINISHED METAL GUTTER WITH STRAP AND ANCHORAGES
07 71 23.B1	4" x 6" PREFINISHED METAL DOWNSPOUT
07 72 00.F	SNOW GUARD - CONTINUOUS ACROSS TOP OF VERTICAL LEGS - REFERENCE ROOF PLAN FOR LOCATIONS.
09 91 13.B	PAINT EXTERIOR OF EXISTING OVERHEAD DOORS TO MATCH THE COLOR OF THE NEW OVERHEAD DOORS.
10 14 20.E	EXTERIOR DOOR SIGNAGE
13 34 18.A10	PREFINISHED METAL DOWNSPOUT - PAINT - PROVIDED BY POST FRAME BUILDING MANUFACTURER
13 34 18.A12	STANDING SEAM METAL ROOF - PROVIDED BY POST FRAME BUILDING MANUFACTURER
13 34 18.A13	FORMED WALL PANEL - PROVIDED BY POST FRAME BUILDING MANUFACTURER
13 34 18.A14	PREFINISHED GUTTER - PROVIDED BY POST FRAME BUILDING MANUFACTURER
13 34 18.A15	SNOW GUARD - CONTINUOUS ACROSS TOP OF VERTICAL LEGS - REFERENCE ROOF PLAN FOR LOCATIONS - PROVIDED BY POST FRAME BUILDING MANUFACTURER
13 34 19.D	FORMED METAL PANEL - PROVIDED BY P.E.M.B. MANUFACTURER

#	KEYNOTE DESCRIPTION
13 34 19.H	4" R-SEAL CONTINUOUS RIGID INSULATION PROVIDED BY P.E.M.B. MANUFACTURER WITH STANDING SEAM METAL ROOF
13 34 19.J	PREFINISHED GUTTER PROVIDED BY P.E.M.B. MANUFACTURER
13 34 19.Q	PREFINISHED METAL DOWNSPOUT - PAINT - BY P.E.M.B. MANUFACTURER
13 34 19.R	SNOW GUARD - CONTINUOUS ACROSS TOP OF VERTICAL LEGS - REFERENCE ROOF PLAN FOR LOCATIONS - BY P.E.M.B. MANUFACTURER
13 34 19.V	EXISTING FORMED METAL PANEL TO BE REMOVED AND REPLACED TO MATCH THE FORMED METAL PANEL ON THE NEW P.E.M.B. - PROVIDED BY P.E.M.B MANUFACTURER.
13 34 19.W	EXISTING STANDING SEAM METAL ROOF TO BE REMOVED AND REPLACED TO MATCH THE STANDING SEAM METAL ROOF ON THE NEW P.E.M.B. - PROVIDED BY P.E.M.B. MANUFACTURER.
13 34 19.X	EXISTING DOWNSPOUT TO BE REMOVED AND REPLACED TO MATCH THE DOWNSPOUTS ON THE NEW P.E.M.B - PROVIDED BY P.E.M.B. MANUFACTURER.
13 34 19.Y	EXISTING GUTTER TO BE REMOVED AND REPLACED TO MATCH THE GUTTERS ON THE NEW P.E.M.B. - PROVIDED BY P.E.M.B. MANUFACTURER.
13 34 19.Z	EXISTING FASCIA AND ASSOCIATED TRIM TO BE REMOVED AND REPLACED TO MATCH THE FASCIA AND TRIM ON THE NEW P.E.M.B. - PROVIDED BY P.E.M.B. MANUFACTURER.

EXTERIOR ELEVATION SYMBOLS LEGEND

- (XXXX) DOOR DESIGNATION - REFERENCE DOOR/OPENING SCHEDULE.
- (2s) SIGNAGE DESIGNATION - REFERENCE SIGNAGE DETAILS.
- (XX) CURTAIN WALL/STOREFRONT/WINDOW TYPE DESIGNATION
- LEVEL ELEVATION — LEVEL LINE
- (X) STRUCTURAL GRID - REFERENCE STRUCTURAL DRAWINGS.
- XX XX XX.XX.XX — DIVISIONAL KEYNOTE DESIGNATION - REFERENCE KEYNOTE SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - KEYNOTE DESIGNATION
  - SPECIFICATION SECTION
- AREA OF DETAIL, X / XX.X, SIM — CALLOUT
  - DETAIL NUMBER
  - SHEET NUMBER
- X / XX.X, SIM — SECTION
  - DETAIL NUMBER
  - SHEET NUMBER

EXTERIOR ELEVATION GENERAL NOTES

STATE OF OHIO
MATTHEW R. HIBNER 1416052
REGISTERED ARCHITECT
MATTHEW R. HIBNER
LICENSE #1416052
EXPIRATION DATE: 12/31/2027

GARMANN MILLER
MINSTER, OHIO | COLUMBUS, OHIO | INDIANAPOLIS, INDIANA | FORT WAYNE, INDIANA
creategm.com

ADDITION TO:

LAKOTA LOCAL SCHOOLS BUS BUILDING

5186 COUNTY ROAD 13, KANSAS, OHIO 44841

ISSUANCES/REVISIONS

	CONSTRUCTION DOCUMENTS	04/24/2026
1	ADDENDUM 01	05/11/2026

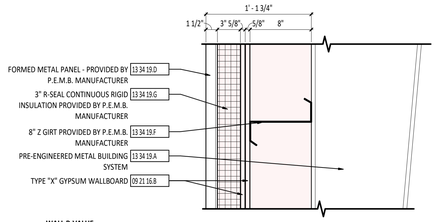
PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
25055.00	BER	RJH

SHEET TITLE:

BUILDING ELEVATIONS

SHEET NUMBER:

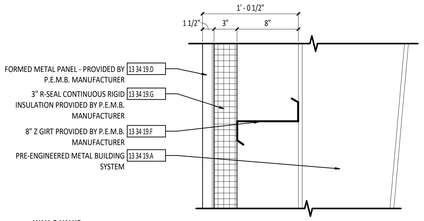
A2.1



WALL R-VALUE

- INTERIOR AIR FILM	0.68
- PEMB FRAMING	0.00
- TYPE X GYPSUM WALLBOARD - 5/8"	0.56
- TYPE X GYPSUM WALLBOARD - 5/8"	0.56
- BOARD INSULATION - 3"	22.50
- METAL WALL PANEL - 1 1/2"	0.61
- EXTERIOR AIR FILM	0.17
TOTAL R-VALUE	**25.08**

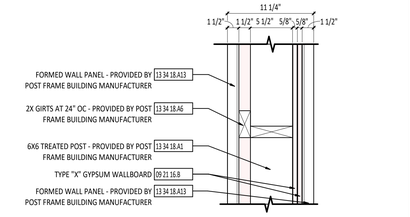
1 A4.2 **PRE-ENGINEERED METAL BUILDING EXTERIOR WALL ASSEMBLY (UL #UJ419)**
1 1/2" = 1'-0"



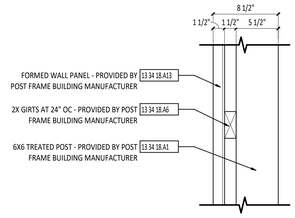
WALL R-VALUE

- INTERIOR AIR FILM	0.68
- PEMB FRAMING	0.00
- BOARD INSULATION - 3"	22.50
- METAL WALL PANEL - 1 1/2"	0.61
- EXTERIOR AIR FILM	0.17
TOTAL R-VALUE	**23.96**

2 A4.2 **PRE-ENGINEERED METAL BUILDING EXTERIOR WALL ASSEMBLY**
1 1/2" = 1'-0"

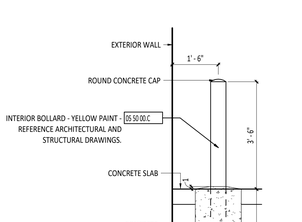


3 A4.2 **POST BUILDING EXTERIOR WALL ASSEMBLY (UL #UJ301)**
1 1/2" = 1'-0"

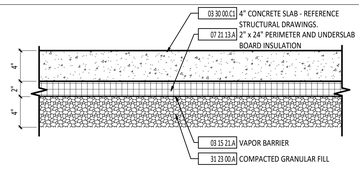


4 A4.2 **POST BUILDING EXTERIOR WALL ASSEMBLY**
1 1/2" = 1'-0"

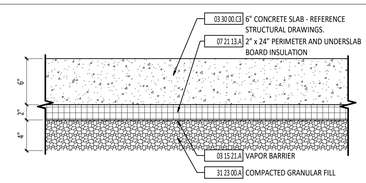
#	KEYNOTE DESCRIPTION
03 15 21.A	VAPOR BARRIER
03 30 00.A	CONCRETE FOOTING - REFERENCE STRUCTURAL DRAWINGS.
03 30 00.C1	4" CONCRETE SLAB - REFERENCE STRUCTURAL DRAWINGS.
03 30 00.C3	6" CONCRETE SLAB - REFERENCE STRUCTURAL DRAWINGS.
03 30 00.C7	8" CONCRETE SLAB - REFERENCE STRUCTURAL DRAWINGS.
04 05 23.L	BOND BREAK
05 50 00.C	INTERIOR BOLLARD - YELLOW PAINT - REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
05 50 00.D	EXTERIOR GALVANIZED BOLLARD - YELLOW PAINT - REFERENCE ARCHITECTURAL, SITE, AND STRUCTURAL DRAWINGS.
06 10 00.D2	2X WOOD BLOCKING/NAILER
06 10 00.G3	1/2" PLYWOOD
06 10 00.K1	2X4 WOOD FRAMING AT 16" OC
06 10 00.K6	WOOD FRAMING AT 16" OC
07 21 13.A	2" x 24" PERIMETER AND UNDERSLAB BOARD INSULATION
07 42 13.13.B	PREFINISHED FORMED VERTICAL METAL PANEL - SHIM PANELS PLUMB
07 92 00.D	ISOLATION JOINT WITH JOINT FILLER AND SEALANT
09 21 16.B	TYPE "X" GYPSUM WALLBOARD
13 34 18.A1	6X6 TREATED POST - PROVIDED BY POST FRAME BUILDING MANUFACTURER
13 34 18.A2	2X6 GIRT - PROVIDED BY POST FRAME BUILDING MANUFACTURER
13 34 18.A3	2X8 TREATED SKIRT BOARD - PROVIDED BY POST FRAME BUILDING MANUFACTURER
13 34 18.A4	2X6 WOOD NAILER - PROVIDED BY POST FRAME BUILDING MANUFACTURER
13 34 18.A6	2X GIRTS AT 24" OC - PROVIDED BY POST FRAME BUILDING MANUFACTURER
13 34 18.A13	FORMED WALL PANEL - PROVIDED BY POST FRAME BUILDING MANUFACTURER
13 34 18.A22	CONCRETE FOOTING - PROVIDED BY POST FRAME BUILDING MANUFACTURER
13 34 19.A	PRE-ENGINEERED METAL BUILDING SYSTEM
13 34 19.D	FORMED METAL PANEL - PROVIDED BY P.E.M.B. MANUFACTURER
13 34 19.F	8" Z GIRT PROVIDED BY P.E.M.B. MANUFACTURER
13 34 19.G	3" R-SEAL CONTINUOUS RIGID INSULATION PROVIDED BY P.E.M.B. MANUFACTURER
31 23 00.A	COMPACTED GRANULAR FILL
31 23 16.A	COMPACTED EARTH



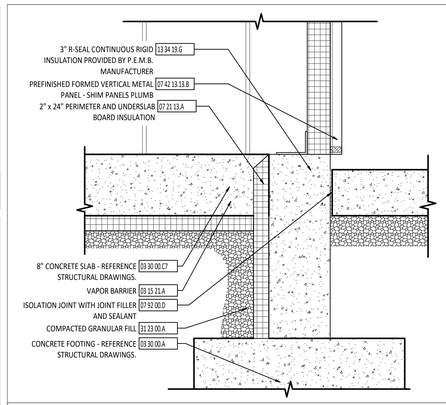
5 A4.2 **BREEZEWAY EXTERIOR WALL ASSEMBLY**
1 1/2" = 1'-0"



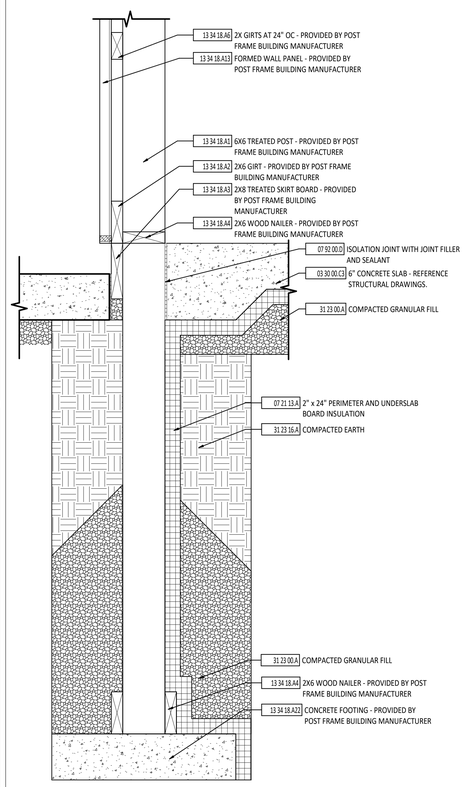
6 A4.2 **BREEZEWAY CONCRETE SLAB ASSEMBLY**
1 1/2" = 1'-0"



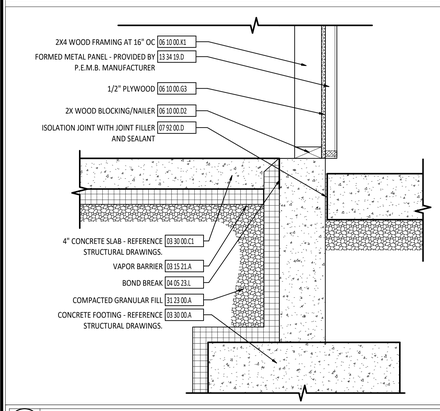
7 A4.2 **POST BUILDING CONCRETE SLAB ASSEMBLY**
1 1/2" = 1'-0"



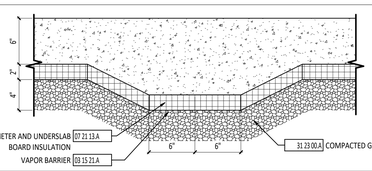
8 A4.2 **PRE-ENGINEERED METAL BUILDING TYPICAL FOUNDATION DETAIL**
1 1/2" = 1'-0"



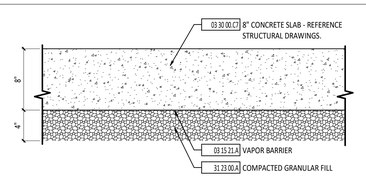
13 A4.2 **POST BUILDING TYPICAL FOUNDATION DETAIL AT POST**
1 1/2" = 1'-0"



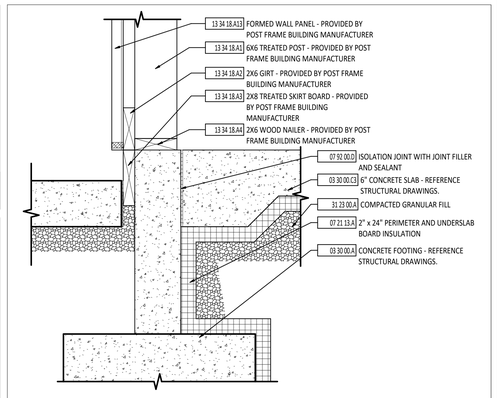
9 A4.2 **BREEZEWAY TYPICAL FOUNDATION DETAIL**
1 1/2" = 1'-0"



10 A4.2 **THICKENED POST BUILDING SLAB ASSEMBLY**
1 1/2" = 1'-0"

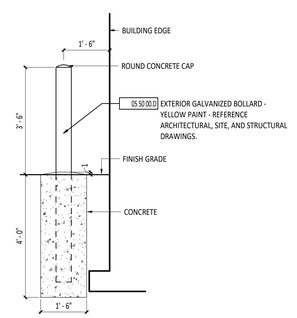


11 A4.2 **PRE-ENGINEERED METAL BUILDING CONCRETE SLAB ASSEMBLY**
1 1/2" = 1'-0"



12 A4.2 **POST BUILDING TYPICAL FOUNDATION DETAIL**
1 1/2" = 1'-0"

14 A4.2 **TYPICAL INTERIOR BOLLARD**
1/2" = 1'-0"



15 A4.2 **TYPICAL EXTERIOR BOLLARD**
1/2" = 1'-0"

STATE OF OHIO
MATTHEW R. HIBNER
1416052
REGISTERED ARCHITECT
MATTHEW R. HIBNER
LICENSE #1416052
EXPIRATION DATE: 12/31/2027

GARMANN MILLER
AKRON, OHIO | COLUMBUS, OHIO | INDIANAPOLIS, INDIANA | FORT WAYNE, INDIANA
mmhgroup.com

ADDITION TO:

LAKOTA LOCAL SCHOOLS BUS BUILDING

5181 COUNTY ROAD 13, KANSAS, OHIO 44841

ISSUANCES/REVISIONS

	CONSTRUCTION DOCUMENTS	04/24/2026
1	ADDENDUM 01	05/11/2026

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
25055.00	BER	RJH

SHEET TITLE:

WALL SECTION DETAILS

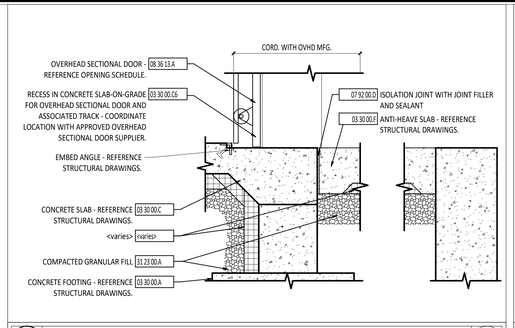
SHEET NUMBER:

A4.2

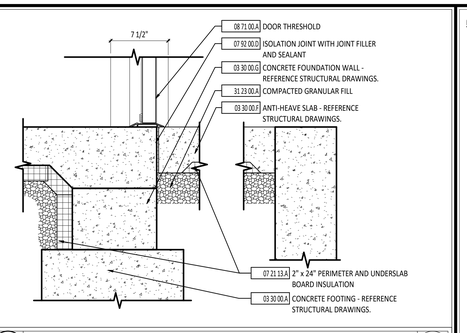
PRINTED ON: 5/11/2026 3:24:53 PM

DOOR/OPENING SCHEDULE

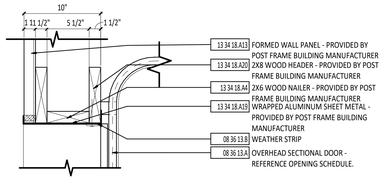
NUMBER	DOOR SIZE	DOOR THK	DOOR MATL	DOOR TYPE	DOOR GLASS	FRAME DEPTH	FRAME MATL	FRAME TYPE	FRAME GLASS	DETAIL NUMBER HEAD	DETAIL NUMBER JAMB	DETAIL NUMBER SILL	HARDWARE SET	ROOM KEY SIDE	FUNCTION	LABEL (MIN)	NOTES
A100a	3'-0" x 7'-0"	1 3/4"	HM	HG	1/4" - TG - SG	9 1/2"	HM	7	-	*Existing*	*Existing*	*Existing*			Exterior	-	
A100b	3'-0" x 7'-0"	1 3/4"	HM	HG	1/4" - TG - SG	9 1/2"	HM	7	-	*Existing*	*Existing*	*Existing*			Exterior	-	
A106a	13'-0" x 12'-0"	2"	AL	CD	-	12 1/4"	AL	-	-	7/A6.1	8/A6.1	-			Exterior	-	
A106b	13'-0" x 12'-0"	2"	AL	CD	-	12 1/4"	AL	-	-	7/A6.1	13/A6.1	-			Exterior	-	
A106c	(2) 3'-0" x 7'-0"	1 3/4"	HM	NL	1/4" - TG - SG	9 1/2"	HM	8	-	5/A6.1	8/A6.1	-			Interior	90 MIN	
A106d	3'-0" x 7'-0"	1 3/4"	HM	NL	1/4" - TG - SG	9 1/2"	HM	7	-	5/A6.1	6/A6.1	-			Interior	90 MIN	
B100a	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B100b	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B100c	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B100d	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B100e	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B100f	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B100g	3'-0" x 7'-0"	1 3/4"	HM	HG	1/4" - TG - SG	9 1/2"	HM	7	-	9/A6.1	10/A6.1	-			Exterior	-	
B100h	3'-0" x 7'-0"	1 3/4"	HM	HG	1/4" - TG - SG	9 1/2"	HM	7	-	9/A6.1	10/A6.1	-			Exterior	-	
B101a	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B101b	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B101c	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B101d	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B101e	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B101f	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B101g	3'-0" x 7'-0"	1 3/4"	HM	NL	1/4" - TG - SG	9 1/2"	HM	1	-	14/A6.1	15/A6.1	-			Interior	90 MIN	
B101h	3'-0" x 7'-0"	1 3/4"	HM	HG	1/4" - TG - SG	9 1/2"	HM	7	-	9/A6.1	10/A6.1	-			Exterior	-	
B102a	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B102b	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B102c	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B102d	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B102e	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B102f	12'-0" x 12'-0"	2"	AL	OHD	1/4" - TG - SG	8 5/8"	AL	-	-	3/A6.1	4/A6.1	-			Exterior	-	
B102g	3'-0" x 7'-0"	1 3/4"	HM	NL	1/4" - TG - SG	9 1/2"	HM	1	-	14/A6.1	15/A6.1	-			Interior	90 MIN	
B102h	3'-0" x 7'-0"	1 3/4"	HM	HG	1/4" - TG - SG	11"	HM	7	-	9/A6.1	10/A6.1	-			Exterior	-	
B102i	3'-0" x 7'-0"	1 3/4"	HM	NL	1/4" - TG - SG	11"	HM	1	-	14/A6.1	15/A6.1	-			Interior	180 MIN	
B103a	3'-0" x 7'-0"	1 3/4"	HM	HG	1/4" - TG - SG	6 1/2"	HM	7	-	12/A6.1	13/A6.1	-			Exterior		
B103b	3'-0" x 7'-0"	1 3/4"	HM	HG	1/4" - TG - SG	6 1/2"	HM	7	-	12/A6.1	13/A6.1	-			Exterior		



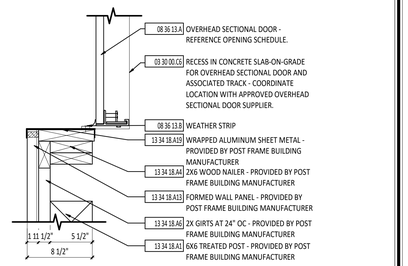
1 A6.1 **SILL DETAIL - EXTERIOR**
1 1/2" = 1'-0"



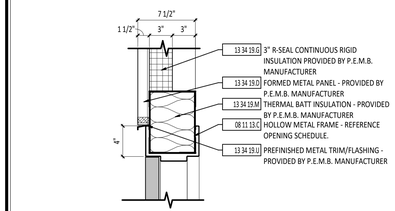
2 A6.1 **SILL DETAIL - EXTERIOR**
1 1/2" = 1'-0"



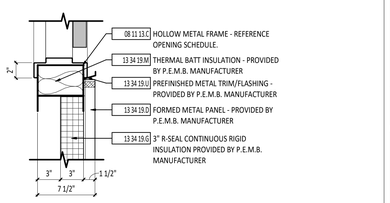
3 A6.1 **HEAD DETAIL - EXTERIOR**
1 1/2" = 1'-0"



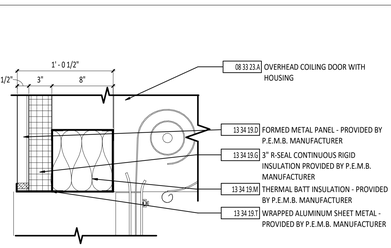
4 A6.1 **JAMB DETAIL - EXTERIOR**
1 1/2" = 1'-0"



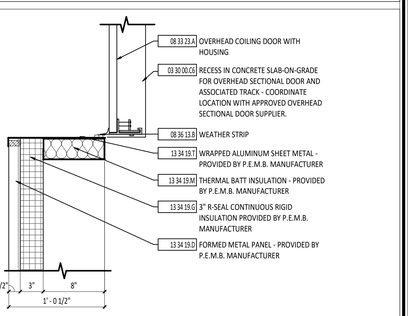
5 A6.1 **HEAD DETAIL - EXTERIOR**
1 1/2" = 1'-0"



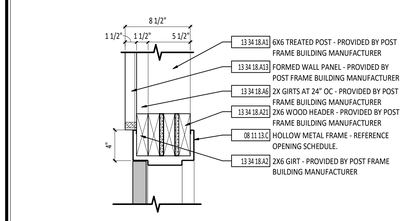
6 A6.1 **JAMB DETAIL - EXTERIOR**
1 1/2" = 1'-0"



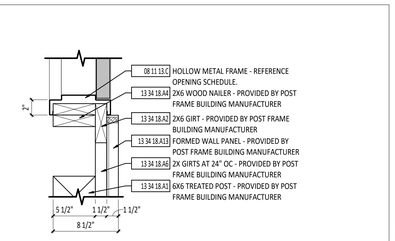
7 A6.1 **HEAD DETAIL - EXTERIOR**
1 1/2" = 1'-0"



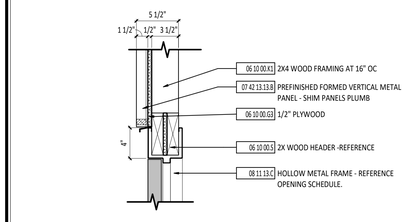
8 A6.1 **JAMB DETAIL - EXTERIOR**
1 1/2" = 1'-0"



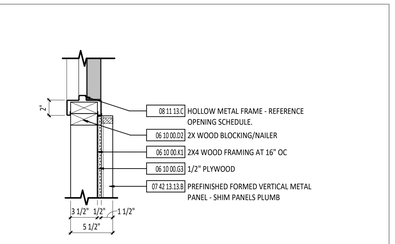
9 A6.1 **HEAD DETAIL - EXTERIOR**
1 1/2" = 1'-0"



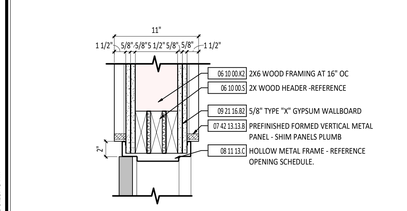
10 A6.1 **JAMB DETAIL - EXTERIOR**
1 1/2" = 1'-0"



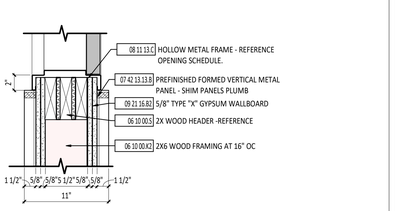
12 A6.1 **HEAD DETAIL - EXTERIOR**
1 1/2" = 1'-0"



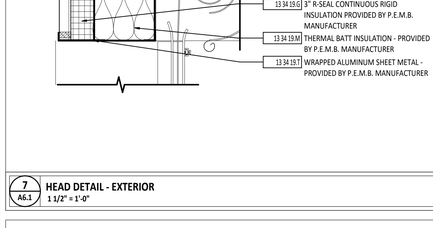
13 A6.1 **JAMB DETAIL - EXTERIOR**
1 1/2" = 1'-0"



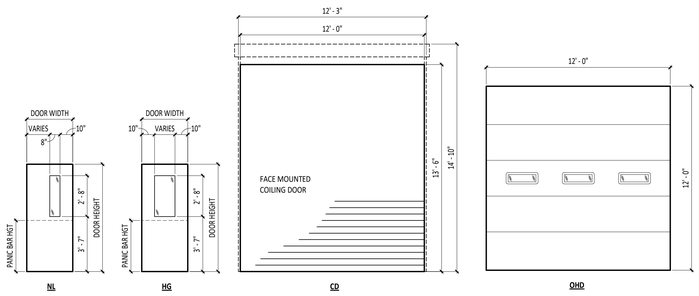
14 A6.1 **HEAD DETAIL - INTERIOR**
1 1/2" = 1'-0"



15 A6.1 **JAMB DETAIL - INTERIOR**
1 1/2" = 1'-0"



11 A6.1 **HOLLOW METAL DOOR FRAME TYPES**
1/4" = 1'-0"



16 A6.1 **DOOR TYPES**
1/4" = 1'-0"

DOOR GENERAL NOTES

DOOR/OPENING SCHEDULE ABBREVIATIONS

SYMBOL	DESCRIPTION
AL	ALUMINUM
CD	COILING DOOR
DG	DIFFUSING GLASS
F	FLUSH
FG	FULL GLASS
FRG	FIRE RATED GLASS
HG	HALF GLASS
HM	HOLLOW METAL
IG	INSULATED GLASS
LG	LAMINATED GLASS
N	NARROW LITE
SG	SAFETY GLASS
TG	TEMPERED GLASS
W	WOOD

DOOR/OPENING SCHEDULE NOTES

SECTIONAL DOOR NUMBERING - ADHERE 12" NUMERIC STICKER TO OUTSIDE FACE OF SECTIONAL DOOR. REFERENCE 4/A2.1. ACTUAL DOOR NUMBER TO BE THE FOLLOWING:

- NUMERIC STICKER "1" AT DOOR 100a
- NUMERIC STICKER "2" AT DOOR 100b
- NUMERIC STICKER "3" AT DOOR 100c
- NUMERIC STICKER "4" AT DOOR 100d
- NUMERIC STICKER "5" AT DOOR 100e
- NUMERIC STICKER "6" AT DOOR 100f
- NUMERIC STICKER "7" AT DOOR 101a
- NUMERIC STICKER "8" AT DOOR 101b
- NUMERIC STICKER "9" AT DOOR 101c
- NUMERIC STICKER "10" AT DOOR 101d
- NUMERIC STICKER "11" AT DOOR 101e
- NUMERIC STICKER "12" AT DOOR 101f
- NUMERIC STICKER "13" AT DOOR 102a
- NUMERIC STICKER "14" AT DOOR 102b
- NUMERIC STICKER "15" AT DOOR 102c
- NUMERIC STICKER "16" AT DOOR 102d
- NUMERIC STICKER "17" AT DOOR 102e
- NUMERIC STICKER "18" AT DOOR 102f

STATE OF OHIO
MATTHEW R. HIBNER
1416052
REGISTERED ARCHITECT

MATTHEW R. HIBNER
LICENSE #1416052
EXPIRATION DATE: 12/31/2027

GARMANN MILLER
MARION, OHIO | COLUMBUS, OHIO | INDIANAPOLIS, INDIANA | FORT WAYNE, INDIANA
mmhgroup.com

ADDITION TO:

LAKOTA LOCAL SCHOOLS BUS BUILDING

5186 COUNTY ROAD 13, KANSAS, OHIO 44841

ISSUANCES/REVISIONS

	CONSTRUCTION DOCUMENTS	04/24/2026
1	ADDENDUM 01	05/11/2026

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
25055.00	BER	RJH

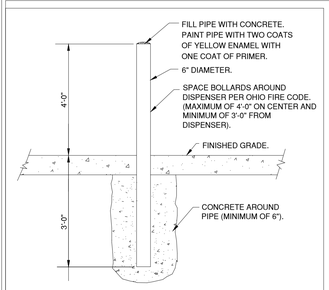
SHEET TITLE:

DOOR SCHEDULE AND DETAILS

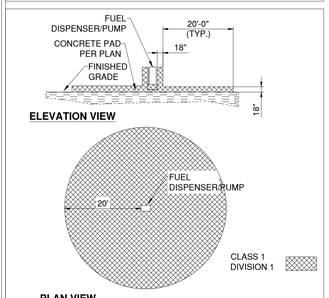
SHEET NUMBER:

A6.1

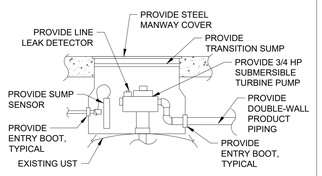
PRINTED ON: 5/11/2026 3:25:48 PM



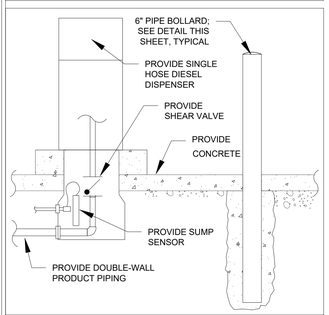
1 F1.1 DISPENSER BOLLARD
NOT TO SCALE



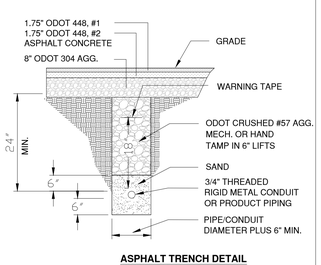
2 F1.1 FUEL DISPENSER/PUMP HAZARDOUS LOCATION
NOT TO SCALE



3 F1.1 TANK SUMP
NOT TO SCALE

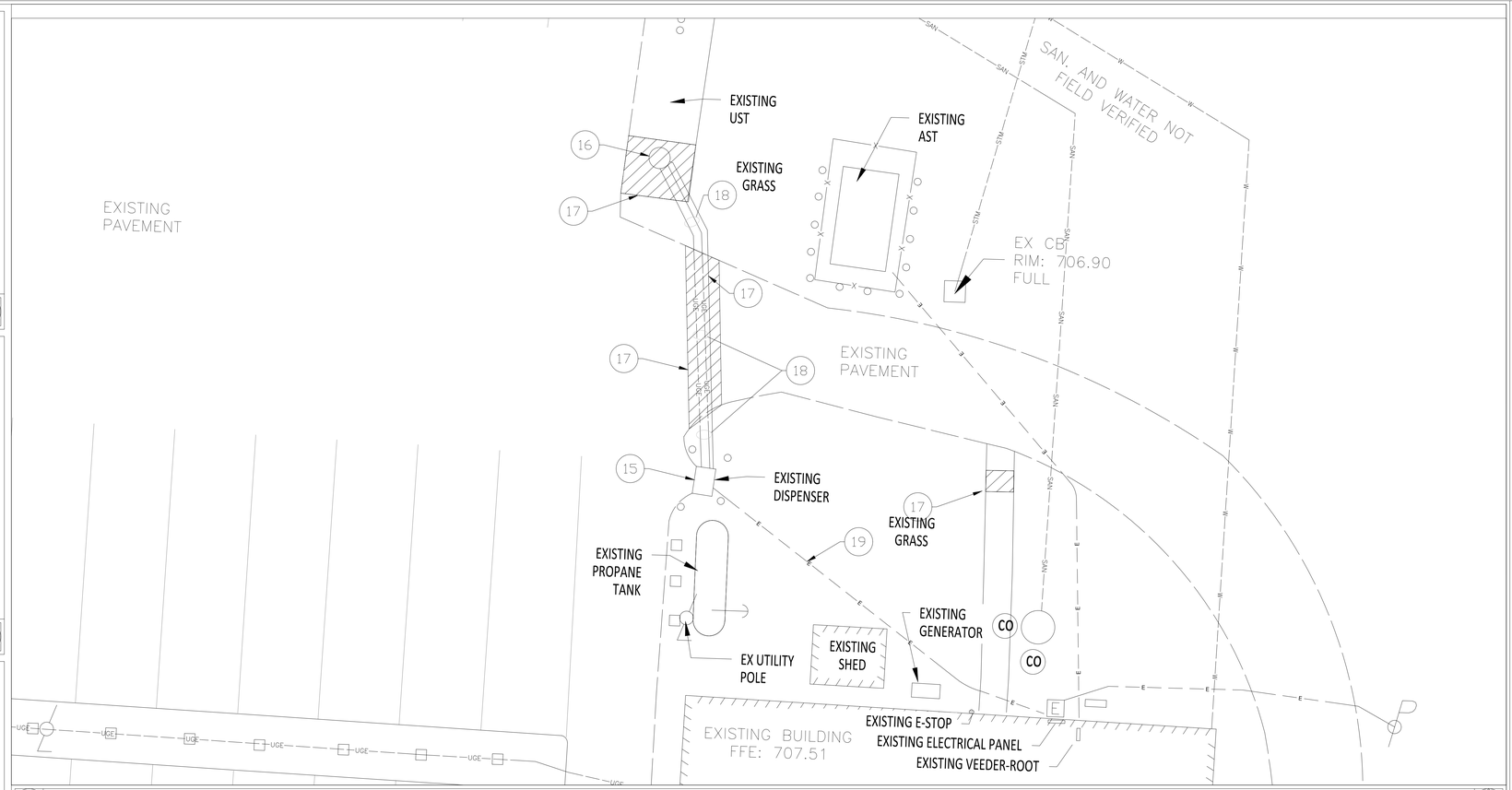


4 F1.1 DISPENSER SUMP & ISLAND
NOT TO SCALE

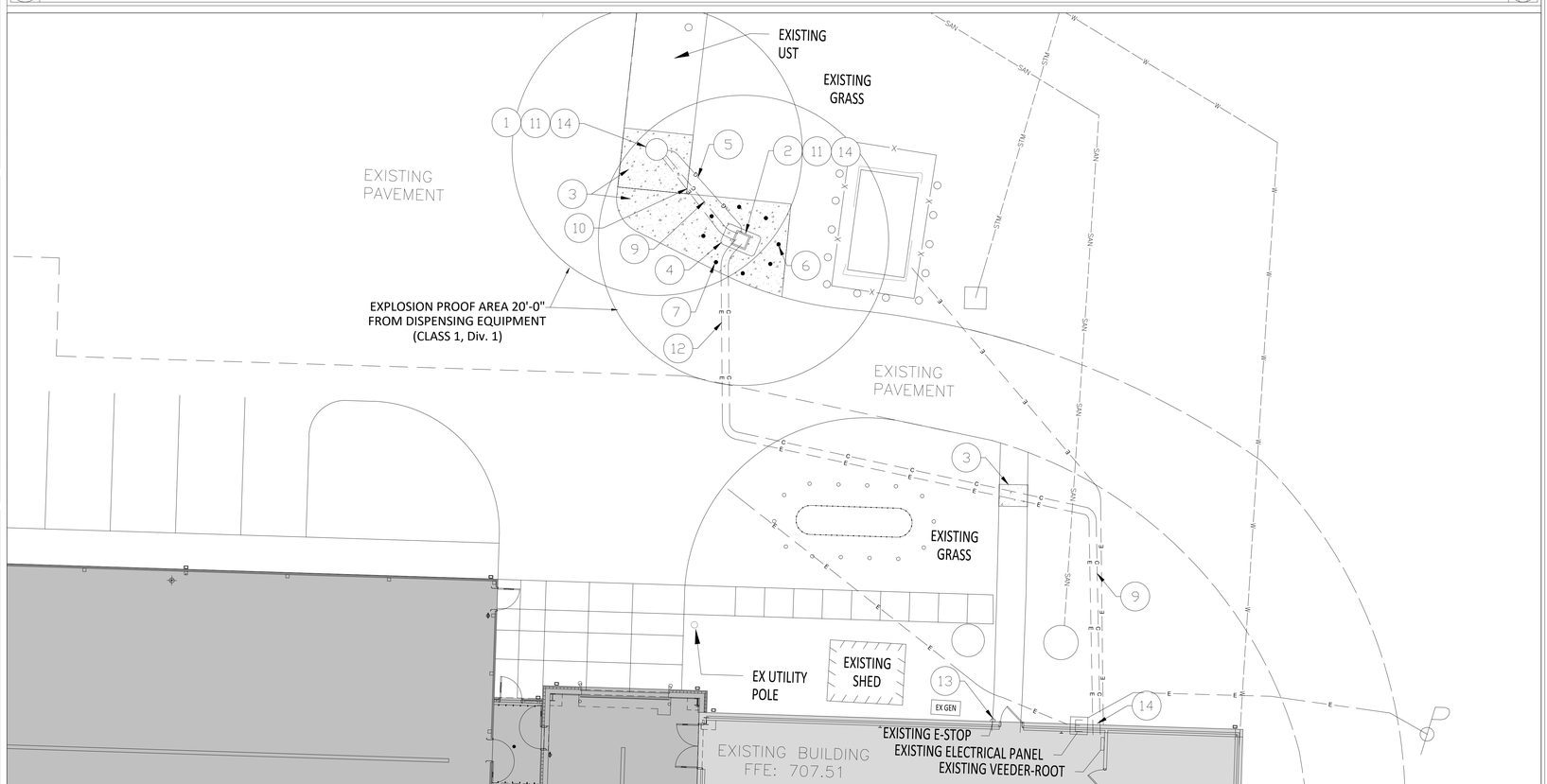


ASPHALT TRENCH DETAIL
NOT TO SCALE

5 F1.1 PIPE AND CONDUIT TRENCH
NOT TO SCALE



6 F1.1 FUEL SYSTEM DEMOLITION PLAN
1/8" = 1'-0"



7 F1.1 FUEL SYSTEM INSTALLATION PLAN
1/8" = 1'-0"

FUEL SYSTEM GENERAL NOTES

1. ALL PRODUCTS SHALL BE MANUFACTURED FOR USE ON DIESEL APPLICATIONS.
2. ROUTE COMMUNICATION LINES IN CONDUIT. ALL COMMUNICATION WIRING SHALL BE SHIELDED. LOW VOLTAGE WIRING SHALL NOT BE INSTALLED WITHIN THE SAME CONDUIT AS 120V WIRING.
3. EXISTING UNDERGROUND PRODUCT PIPING, ELECTRICAL CONDUIT, AND UTILITY LINES MAY NOT BE LOCATED AS SHOWN ON THIS SITE PLAN. LOCATE AND IDENTIFY EXISTING UTILITIES IN FIELD PRIOR TO START OF WORK. NOTIFY OHIO UTILITIES PROTECTION SERVICES (OUPS) PRIOR TO START OF WORK; PROVIDE OUPS CONFIRMATION. REPAIR ANY LINES DAMAGED DURING WORK TO SATISFACTION OF OWNER AND UTILITY COMPANY.
4. EXISTING UTILITY LINES MAY BE GALVANIZED OR PLASTIC.
5. UNDERGROUND WIRING SYSTEMS SHALL BE INSTALLED AT A MINIMUM DEPTH OF 2'-0" BELOW GRADE TO TOP OF CABLES.
6. PROVIDE ALL SIGNAGE REQUIRED UNDER NFPA-30, NFPA-30A, AND DIVISION OF STATE FIRE MARSHAL.
7. HAND DIGGING MAY BE REQUIRED.
8. WHERE APPLICABLE, ALL EQUIPMENT, WIRING, AND CONDUIT SHALL BE LISTED FOR USE IN CLASS 1, DIVISION 1 LOCATIONS.
9. DISCONNECT ELECTRIC WHERE REQUIRED AND RECONNECT DEVICES TO EXISTING CIRCUITS.
10. ALL ELECTRICAL EQUIPMENT AND WIRING SHALL COMPLY WITH 2023 NEC, ARTICLE 514 "MOTOR FUEL DISPENSING FACILITIES."

FUEL SYSTEM CODED NOTES

1	PROVIDE TANK SUMP AND 3/4 HP SUBMERSIBLE TURBINE PUMP WITH LINE LEAK DETECTOR CONNECT TO EXISTING CIRCUIT BREAKER; SEE DETAIL THIS SHEET.
2	PROVIDE SINGLE HOSE DIESEL DISPENSER AND DISPENSER SUMP; CONNECT TO UNDERGROUND PIPING. SEE DETAIL THIS SHEET.
3	PROVIDE CONCRETE; SEE SHEETS L2.1 FOR DETAILS.
4	PROVIDE CONCRETE DISPENSER ISLAND. SEE DETAIL THIS SHEET.
5	PROVIDE UNDERGROUND DOUBLE WALL PIPING AND ENTRY BOOTS. SEE DETAIL THIS SHEET.
6	PROVIDE FIRE EXTINGUISHER.
7	PROVIDE STEEL BOLLARDS (TYPICAL OF 6), SEE DETAIL THIS SHEET.
9	PROVIDE 3/4" UNDERGROUND THREADED RMC FOR VEEDER-ROOT SENSOR; CONNECT TO EXISTING VEEDER-ROOT TLS 350 PLUS MONITORING SYSTEM.
10	PROVIDE 3/4" UNDERGROUND THREADED RMC FOR SUBMERSIBLE TURBINE PUMP CIRCUIT; CONNECT TO EXISTING ELECTRICAL CIRCUIT BREAKER.
11	PROVIDE SUMP SENSOR; CONNECT TO EXISTING VEEDER-ROOT TLS 350 PLUS MONITORING SYSTEM.
12	PROVIDE 3/4" UNDERGROUND THREADED RMC FOR DISPENSER CIRCUIT AND SUBMERSIBLE PUMP; CONNECT TO EXISTING CIRCUIT BREAKERS IN EXISTING ELECTRICAL PANEL AND TO EXISTING EMERGENCY SHUT-OFF SWITCH (E-STOP).
13	EXISTING EMERGENCY SHUT-OFF SWITCH; CONNECT TO NEW DISPENSER.
14	PROVIDE UL-LISTED CONDUIT SEALS 18" ABOVE FINISH GRADE.
15	REMOVE EXISTING DIESEL DISPENSER, DISPENSER SUMP, BOLLARDS, AND ASSOCIATED PIPING.
16	REMOVE EXISTING STEEL MANWAY COVER, TANK SUMP, SUBMERSIBLE PUMP, AND RELATED APPURTENANCES.
17	PROVIDE SAW CUTTING AND REMOVE CONCRETE/ASPHALT.
18	REMOVE EXISTING UNDERGROUND CONDUIT. REMOVE WIRING FROM EXISTING TANK SUMP TO EXISTING ELECTRICAL PANEL.
19	CAP AND ABANDON IN PLACE PORTION CONDUIT FROM DISPENSER TO BUILDING.
20	REMOVE UNDERGROUND PRODUCT PIPING.

FIRE CODE DISTANCE NOTES (UST)	
DISPENSER TO NEAREST BUILDING	57'-0"
EMERGENCY SHUT-OFF SWITCH TO DISPENSER	73'-0"

PHILLIP TODD HARRISON 71275 REGISTERED PROFESSIONAL ENGINEER STATE OF OHIO
5/11/2026

GARMANN MILLER
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creativegm.com

ADDITION TO:
LAKOTA LOCAL SCHOOLS BUS BUILDING
5186 COUNTY ROAD 13, KANSAS, OHIO 44841

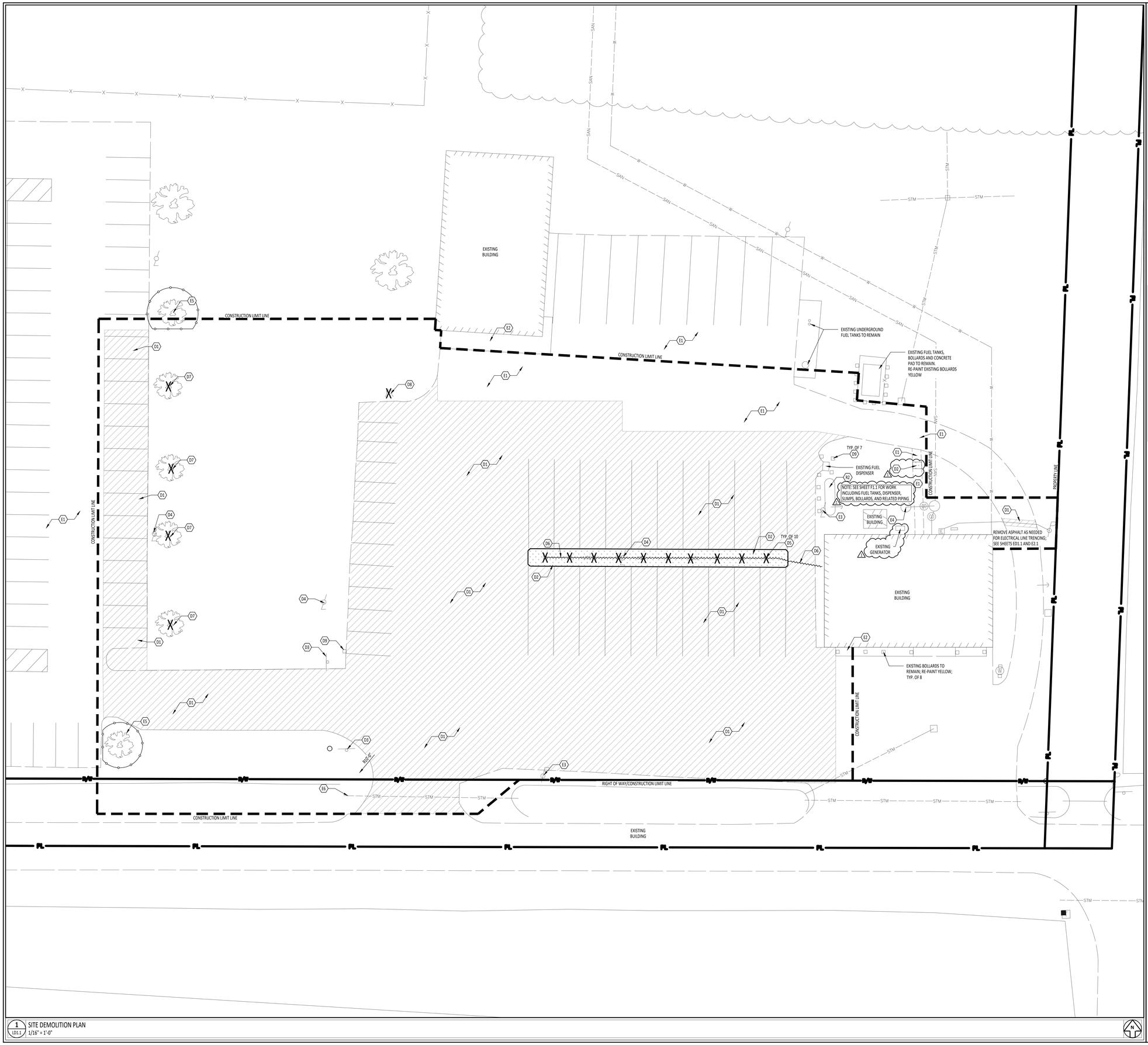
ISSUANCES/REVISIONS

	CONSTRUCTION DOCUMENTS	04/24/2026
1	ADDENDUM 01	05/11/2026

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
25108.00	NAH	PTH

SHEET TITLE:
FUEL SYSTEM MODIFICATION & DETAILS

SHEET NUMBER:
F1.1



1 LD1.1 SITE DEMOLITION PLAN
1/16" = 1'-0"

KEYNOTE SCHEDULE

	EXISTING TO REMAIN
E1	EXISTING ASPHALT TO REMAIN
E2	EXISTING CONCRETE TO REMAIN
E3	EXISTING UTILITY POLE TO REMAIN
E4	EXISTING SANITARY MANHOLE TO REMAIN
E5	EXISTING TREE TO REMAIN
E6	EXISTING STORM LINE TO REMAIN
	SALVAGE/RELOCATE
R1	NOT USED
R2	SALVAGE EXISTING PROPANE TANK AND RELOCATE, SEE SHEET L1.1 FOR LOCATION
	DEMOLITION
D1	REMOVE ASPHALT AND ASSOCIATED BASE
D2	REMOVE CONCRETE AND ASSOCIATED BASE
D3	REMOVE SIGN
D4	REMOVE UTILITY POLE, SEE ELECTRICAL DRAWINGS
D5	REMOVE BUS PLUG IN PEDESTALS
D6	REMOVE UNDERGROUND ELECTRIC
D7	REMOVE TREE
D8	REMOVE TREE STUMP
D9	REMOVE BOLLARD

LEGEND

- KEY NOTE DESIGNATION-REFER TO NOTES THIS SHEET
- REMOVE
- REMOVE UNDERGROUND ELECTRIC
- SAWCUT AND REMOVE ASPHALT PAVEMENT
- REMOVE CONCRETE
- TREE PROTECTION FENCE, SEE DETAIL 7/L2.1 FENCE MUST BE INSTALLED PRIOR TO ANY CONSTRUCTION

GENERAL NOTES

A.	CALL O.U.P.S. AT 1-800-362-2764 FOR UNDERGROUND UTILITY INFORMATION
B.	CALL 1-800-925-0988 FOR OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE
C.	SEE "KNOW WHAT'S BELOW" AT www.call811.com OR CALL 811
D.	FIELD VERIFY DIMENSIONS AND CONDITIONS PRIOR TO START OF CONSTRUCTION. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCY OR SITUATION DISCOVERED THAT DOES NOT CONFORM TO CONSTRUCTION DOCUMENTS.
E.	WORK PERFORMED IS SUBJECT TO APPROVAL BY THE OWNER'S REPRESENTATIVE AND OWNER. WORK FOUND TO BE UNSATISFACTORY SHALL BE REMOVED AND PROPERLY REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
F.	PAVING, FOOTINGS AND OTHER SITE IMPROVEMENTS ARE TO BE REMOVED IN THEIR ENTIRETY UNLESS OTHERWISE NOTED. THIS INCLUDES ALL BASE MATERIAL.
G.	ITEMS AND MATERIAL NOTED AS 'REMOVE' SHALL BE PROPERLY DISPOSED OF BY CONTRACTOR OFF SITE. SALVAGED ITEMS SHALL BE TURNED OVER TO OWNER.
H.	TEMPORARILY SUPPORT WALLS, HEADERS, STRUCTURES, PIPING, DUCTWORK, CONDUIT, ETC., AS REQUIRED UNTIL FINAL SUPPORTS ARE IN PLACE.
I.	PATCH & REPAIR ALL AREAS, SURFACES & MATERIALS TO CONDITION OF SURROUNDING AREA WHERE LEFT EXPOSED TO VIEW.
J.	CLOSELY COORDINATE WORK WITH THE OWNER AND WITH OTHER CONTRACTORS HIRED BY THE OWNER; CLARIFY IN ADVANCE ANY QUESTIONS AS TO SCOPE OF WORK AND AREAS OF RESPONSIBILITY.
K.	PATCH AND REPAIR DISTURBED LAWN AREAS.

STATE OF OHIO
MATTHEW R. HIBNER 1416052 REGISTERED ARCHITECT
MATTHEW R. HIBNER
LICENSE #1416052
EXPIRATION DATE: 12/31/2027

GARMANN MILLER
MINSTER, OHIO | COLUMBUS, OHIO | INDIANAPOLIS, INDIANA | FT. WAYNE, INDIANA
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ADDITION TO:

LAKOTA LOCAL SCHOOLS BUS BUILDING

5186 COUNTY ROAD 13, KANSAS, OHIO 44841

ISSUANCES/REVISIONS

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1	ADDENDUM 01	05/11/2026

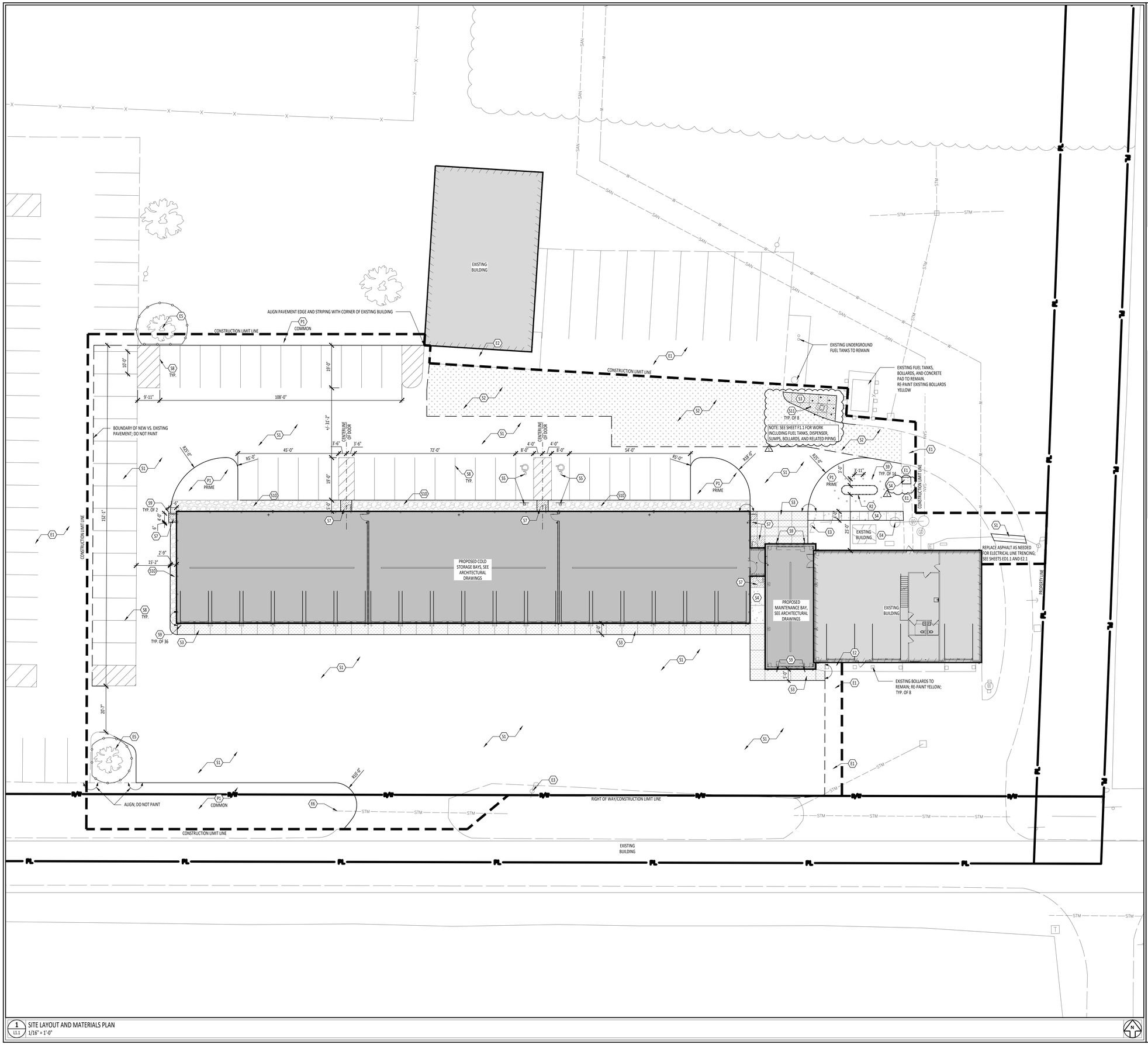
PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
25108.00	AJW	SKE

SHEET TITLE:

SITE DEMOLITION PLAN

SHEET NUMBER:

LD1.1



1 L1.1 SITE LAYOUT AND MATERIALS PLAN
1/16" = 1'-0"

KEYNOTE SCHEDULE

	EXISTING
E1	EXISTING ASPHALT TO REMAIN
E2	EXISTING CONCRETE TO REMAIN
E3	EXISTING UTILITY POLE TO REMAIN
E4	EXISTING SANITARY MANHOLE TO REMAIN
E5	EXISTING TREE TO REMAIN
E6	EXISTING STORM LINE TO REMAIN
	SITE
S1	HEAVY DUTY ASPHALT PAVEMENT, SEE DETAIL 1/L2.1
S2	MILL AND FILL EXISTING ASPHALT, SEE SPECIFICATIONS
S3	HEAVY DUTY CONCRETE PAVEMENT, SEE DETAIL 2/L2.1
S4	STANDARD DUTY CONCRETE PAVEMENT, SEE DETAIL 3/L2.1
S5	HANDICAP PARKING SPACE WITH SIGNAGE, SEE DETAILS 4 & 5/L2.1
S6	SAWCUT CONTROL AND EXPANSION JOINT, SEE DETAIL 3/L2.1
S7	CONCRETE ANTI-HEAVE SLAB, COORDINATE WITH STRUCTURAL DRAWINGS
S8	PAVEMENT ARROWS, PAVEMENT MARKINGS AND PAINTED ISLANDS, SEE SPECIFICATIONS
S9	CONCRETE FILLED STEEL BOLLARD, SEE DETAIL 6/L2.1
S10	4" #57 GRAVEL OVER FILTER FABRIC, SEE SPECIFICATIONS
S11	FUEL DISPENSER BOLLARD, SEE DETAIL 1/P1.1
	RELOCATE
R1	NOT USED
R2	RELOCATED PROPANE TANK, PROVIDE NEW CONCRETE BLOCKS UNDER LEGS
	PLANTING
P1	FINE GRADE AND SEED LAWN, SEE SPECIFICATIONS

LEGEND

- P.O.B. (POINT OF BEGINNING)
- ALIGN
- KEYED NOTE DESIGNATION-REFER TO NOTES THIS SHEET
- KEYED NOTE DESIGNATION
- PROPOSED LIGHT FIXTURE SEE ELECTRICAL DRAWINGS
- CONTROL JOINT
- CONCRETE PAVEMENT
- MILL AND FILL EXISTING PAVMENT
- CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- ANTI-HEAVE CONC. SLAB SEE STRUCTURAL DRAWINGS

GENERAL NOTES

A.	FIELD VERIFY DIMENSIONS & CONDITIONS PRIOR TO START OF CONSTRUCTION. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCY OR SITUATION DISCOVERED THAT DOES NOT CONFORM TO CONSTRUCTION DOCUMENTS.
B.	WORK PERFORMED IS SUBJECT TO APPROVAL BY THE ARCHITECT AND OWNER. WORK FOUND TO BE UNSATISFACTORY SHALL BE REMOVED AND PROPERLY REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
C.	TEMPORARILY SUPPORT WALLS, HEADERS, STRUCTURES, PIPING, DUCTWORK, CONDUIT, ETC., AS REQUIRED UNTIL FINAL SUPPORTS ARE IN PLACE.
D.	PATCH & REPAIR ALL AREAS, SURFACES & MATERIALS TO CONDITION OF SURROUNDING AREA.
E.	CLOSELY COORDINATE WORK WITH THE OWNER AND WITH ALL OTHER CONTRACTORS HIRED BY THE OWNER. CLARIFY IN ADVANCE ANY QUESTIONS AS TO SCOPE OF WORK AND AREAS OF RESPONSIBILITY.
F.	PATCH AND REPAIR DISTURBED LAWN AREAS.
G.	DIMENSIONS ARE TO FACE OF CURB, FENCE, COLUMN OR CENTERLINE UNLESS OTHERWISE NOTED. WALKS SHALL BE CENTERED ON DOOR WAYS.
H.	WALKS SHALL MEET BOTH VERTICALLY AND HORIZONTALLY.
I.	LAYOUT AND DIMENSIONS ARE PARALLEL AND PERPENDICULAR TO ONE ANOTHER UNLESS OTHERWISE INDICATED IN PLANS.
J.	CONTRACTOR SHALL CALL OUPS (800) 362-2764 PRIOR TO COMMENCEMENT OF ANY WORK.
K.	GENERAL CONTRACTOR IS TO MAINTAIN THE SITE WITHIN THE CONSTRUCTION FENCELINE THROUGHOUT CONSTRUCTION IN A CLEAN AND ORDERLY MANNER. MOW GRASS, MAINTAIN PLANT BEDS TO BE FREE OF WEEDS, PICK-UP TRASH, ETC. THE SITE IS TO BE LEFT IN THE SAME OR BETTER CONDITION THAN ORIGINALLY FOUND.

STATE OF OHIO
MATTHEW R. HIBNER
14160552
REGISTERED ARCHITECT
MATTHEW R. HIBNER
LICENSE #14160552
EXPIRATION DATE: 12/31/2027

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ADDITION TO:
LAKOTA LOCAL SCHOOLS BUS BUILDING
5186 COUNTY ROAD 12, KANSAS, OHIO 44841

ISSUANCES/REVISIONS

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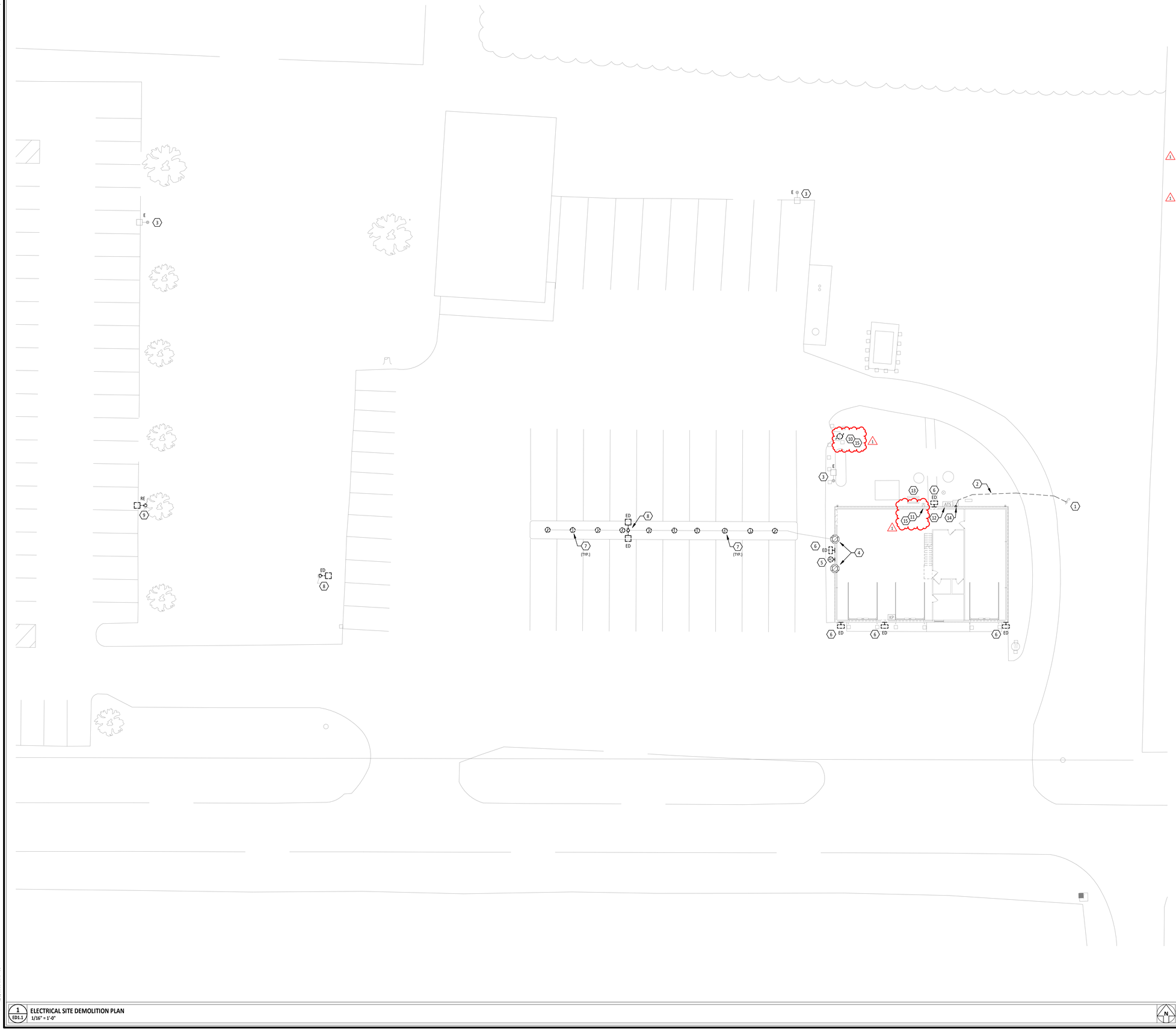
1	ADDENDUM 01	05/11/2026

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
25108.00	AJW	SKE

SHEET TITLE:
SITE LAYOUT AND MATERIALS PLAN

SHEET NUMBER:
L1.1



ELECTRICAL SITE DEMOLITION GENERAL NOTES

A SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

B DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

C COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

#	KEYNOTE DESCRIPTION
1	EXISTING POLE MOUNTED TRANSFORMER TO BE REMOVED BY UTILITY COMPANY. COORDINATE WORK WITH UTILITY COMPANY.
2	EXISTING UNDERGROUND UTILITY FEED AND METER TO BE REMOVED.
3	EXISTING POLE MOUNTED UTILITY LIGHT TO REMAIN.
4	EXISTING CAMERAS TO BE REMOVED AND TURNED OVER TO OWNER.
5	EXISTING PHOTOCELL TO BE REMOVED.
6	EXISTING LUMINAIRE TO BE REMOVED. EXISTING BOX TO BE REUSED WHERE APPLICABLE. REFER TO SHEET E4.1 FOR ADDITIONAL INFORMATION.
7	EXISTING BUS BLOCK HEATER CONNECTION TO BE REMOVED.
8	EXISTING UTILITY POLE LIGHT SHALL BE REMOVED BY UTILITY COMPANY. SERVICE POLE SHALL BE REMOVED BY GENERAL CONTRACTOR. COORDINATE WORK WITH UTILITY COMPANY AND GENERAL CONTRACTOR AS REQUIRED.
9	EXISTING POLE LIGHT TO BE REMOVED AND SALVAGED FOR REINSTALLATION AS PART OF NEW WORK.
10	REMOVE 120V ELECTRICAL CONNECTION FOR FUEL PUMP. EXISTING BRANCH CIRCUIT SHALL BE SALVAGED AND RELOCATED TO NEW FUEL PUMP LOCATION AS PART OF NEW WORK.
11	EXISTING EMERGENCY STOP BUTTON TO REMAIN. CONNECT TO NEW DISPENSER.
12	EXISTING TRANSFER SWITCH TO REMAIN. MODIFY FEED AS NECESSARY. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
13	EXISTING GENERATOR TO REMAIN.
14	EXISTING METER TO BE REMOVED AND REPLACED AS PART OF NEW WORK.
15	REFER TO SHEET F1.1 FOR ADDITIONAL INFORMATION ON FUEL SYSTEM MODIFICATION AND REQUIREMENTS.

1 ED1.1 **ELECTRICAL SITE DEMOLITION PLAN**
1/16" = 1'-0"

N

STATE OF OHIO
MATTHEW R. HIBNER 1416052
REGISTERED ARCHITECT

MATTHEW R. HIBNER
LICENSE #1416052
EXPIRATION DATE: 12/31/2027

GARMANN MILLER
MARION, OHIO | COLUMBUS, OHIO | INDIANAPOLIS, INDIANA | FORT WAYNE, INDIANA
mmhgroup.com

ADDITION TO:

LAKOTA LOCAL SCHOOLS BUS BUILDING

5186 COUNTY ROAD 13, KANSAS, OHIO 44841

ISSUANCES/REVISIONS		
	CONSTRUCTION DOCUMENTS	04/24/2026
1	ADDENDUM 01	05/11/2026

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
25108.00	CDH	DNS

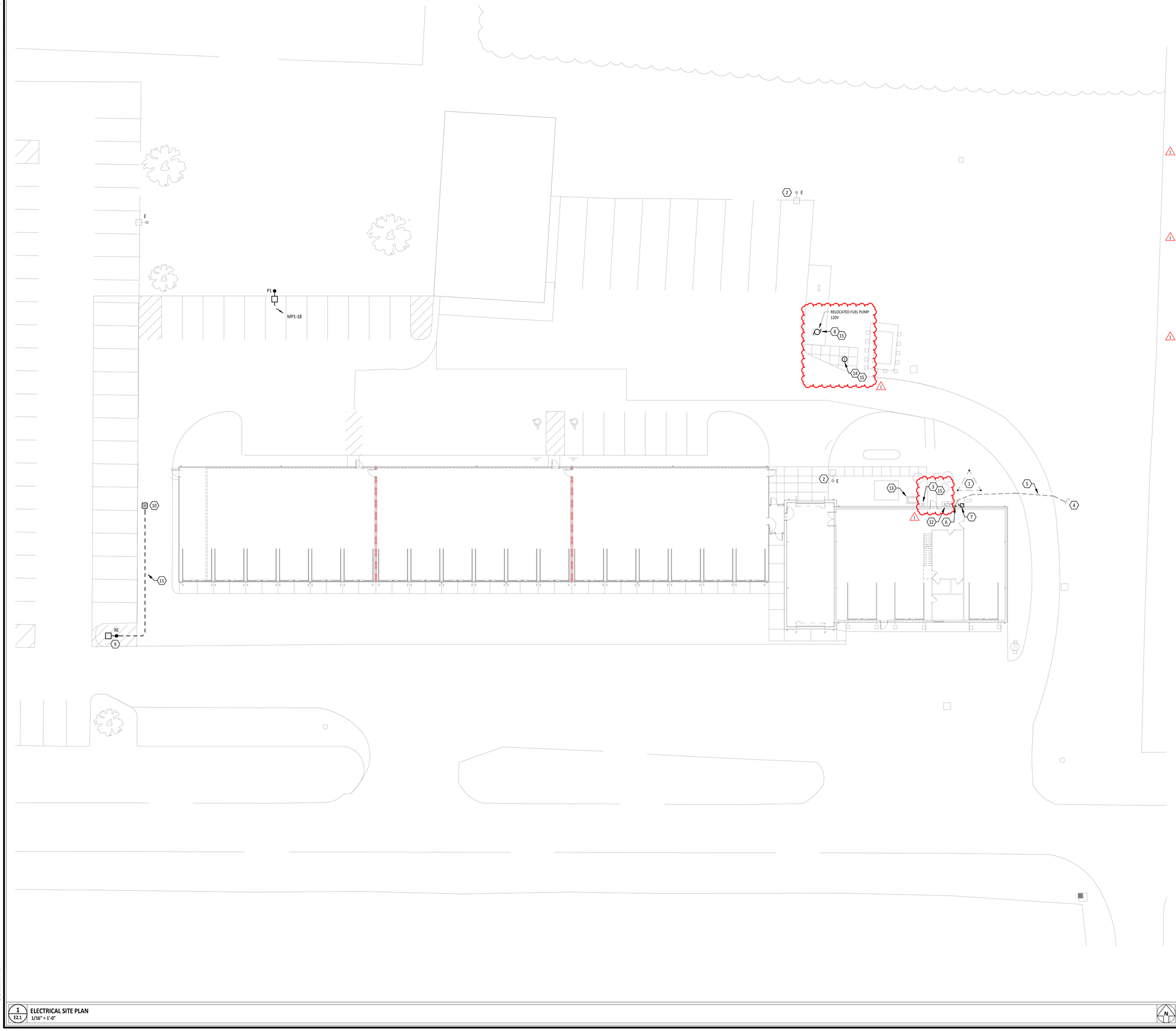
SHEET TITLE:

ELECTRICAL SITE DEMOLITION PLAN

SHEET NUMBER:

ED1.1

PRINTED ON: 5/9/2026 11:24:59 PM



UTILITY COMPANY CONTACT

HANCOCK-WOOD ELECTRIC COOPERATIVE
RYAN GOOLSBY DIRECTOR OF ENGINEERING
(DIRECT) 419.257.5045

ELECTRICAL SITE GENERAL NOTES

A SEE CIVIL SITE PLAN, AND LANDSCAPE SITE PLANS FOR EXACT LOCATION OF OTHER UTILITIES. INSTALLATION OF ELECTRICAL WORK SHALL BE COORDINATED WITH THE OTHER TRADES.
B ELECTRICAL UTILITY SERVICE CONDUITS TO BE MINIMUM OF 48" BELOW GRADE TO TOP OF CONDUITS.
C PROVIDE PULL WIRES IN ALL EMPTY CONDUITS.
D ALL UNDERGROUND CONDUIT SHALL BE 1" SCHEDULE 40 PVC, UNLESS NOTED OTHERWISE.
E COORDINATE CONSTRUCTION WITH THE ELECTRIC UTILITY COMPANY.
F PROVIDE IDENTIFICATION LABEL FOR EACH POLE LIGHT.

#	KEYNOTE DESCRIPTION
1	GROUNDING GRID. REFERENCE GROUNDING DETAIL 1 ON SHEET E1.2 FOR ADDITIONAL INFORMATION. COORDINATE LOCATION WITH OTHER EQUIPMENT IN AREA.
2	EXISTING POLE MOUNTED UTILITY LIGHT TO REMAIN.
3	EXISTING EMERGENCY STOP BUTTON TO REMAIN. CONNECT TO NEW DISPENSER.
4	NEW POLE MOUNTED TRANSFORMER PROVIDED BY UTILITY COMPANY. DIVISION 26 TO PROVIDE CONDUIT STUB UP EXISTING POLE AND PROVIDE PIN TERMINALS. COORDINATE WORK WITH UTILITY COMPANY.
5	REFER TO ONE LINE DIAGRAM FOR FEEDER AND CONDUIT SIZE.
6	PROVIDE NEW METER BASE PER UTILITY SPECIFICATIONS. COORDINATE WORK WITH UTILITY COMPANY.
7	PROVIDE 400A FUSED DISCONNECT. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
8	PROVIDE 120V CONNECTION TO RELOCATED FUEL PUMP AND ASSOCIATED TANK SUMP. PROVIDE (1) 3/4" UNDERGROUND CONDUIT FOR BRANCH CIRCUIT AND (1) 3/4" UNDERGROUND CONDUIT FOR CONTROL CABLING FROM EXISTING MONITORING SYSTEM LOCATION. ALL WORK SHALL COMPLY WITH NEC ARTICLES 500 AND 514.
9	INSTALL POLE LIGHT SALVAGED FROM DEMOLITION.
10	PROVIDE AN IN-GRADE PULL BOX AT DEMOLISHED POLE LOCATION. BOX SHALL BE EQUAL TO HUBBELL QUAZITE 'PD' STYLE, TIER 22 MINIMUM, 13" X 24" X 18" MINIMUM. TOP OF BOX SHALL BE FLUSH WITH FINAL GRADE WITH "ELECTRIC" ENGRAVED INTO LID.
11	EXTEND/REWORK EXISTING CIRCUIT SALVAGED FROM DEMOLITION TO NEW POLE LOCATION.
12	EXISTING TRANSFER SWITCH TO REMAIN. MODIFY FEED AS NECESSARY. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
13	EXISTING GENERATOR TO REMAIN.
14	PROVIDE SUMP SENSOR. CONNECT TO EXISTING MONITORING SYSTEM.
15	REFER TO SHEET F1.1 FOR ADDITIONAL INFORMATION ON FUEL SYSTEM MODIFICATION AND REQUIREMENTS.

1 E2.1 **ELECTRICAL SITE PLAN**
1/16" = 1'-0"

N

Know what's **below.** **Call** before you dig.

STATE OF OHIO
MATTHEW R. HIBNER
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ADDITION TO:
LAKOTA LOCAL SCHOOLS BUS BUILDING
5186 COUNTY ROAD 13, KANSAS, OHIO 44841

ISSUANCES/REVISIONS		
	CONSTRUCTION DOCUMENTS	04/24/2026
1	ADDENDUM 01	05/11/2026

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
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SHEET TITLE:
SITE ELECTRICAL PLAN

SHEET NUMBER:
E2.1

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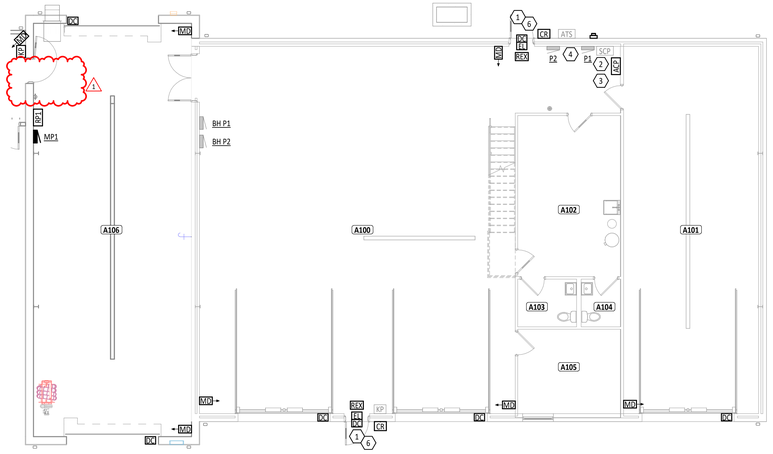
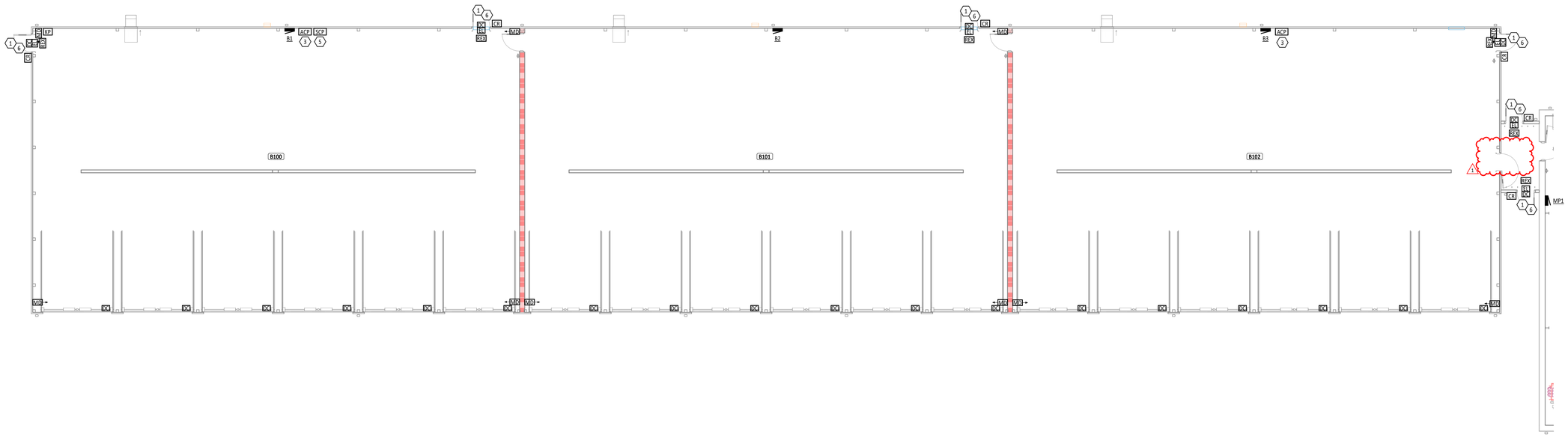


1 / E3.1 SYSTEMS PLAN - UNIT A
1/8" = 1'-0"



2 / E3.1 SYSTEMS PLAN - UNIT B
1/8" = 1'-0"

ROOM INDEX

ROOM NUMBER	ROOM NAME	AREA
A100	EXISTING MAINTENANCE	2,079 SF
A101	EXISTING MAINTENANCE	865 SF
A102	EXISTING MEETING ROOM	282 SF
A103	EXISTING RR	48 SF
A104	EXISTING RR	32 SF
A105	EXISTING OFFICE	147 SF
A106	MAINTENANCE	1,111 SF
A200	EXISTING MEZZANINE	539 SF
B100	BUS STORAGE	4,197 SF
B101	BUS STORAGE	4,162 SF
B102	BUS STORAGE	4,197 SF
B103	BREEZEWAY	77 SF
ST1	EXISTING STAIRS	48 SF

SYSTEMS GENERAL NOTES

A ALL LOW VOLTAGE CABLING FOR THE SCOPE OF WORK BY DIVISION 26, 27, AND 28 IN EXPOSED CEILING SPACES SHALL BE ROUTED INSIDE CONDUIT. COORDINATE WITH INSTALLER OF EACH SYSTEM PRIOR TO ROUGH-IN. PAINT CONDUIT TO MATCH SURROUNDING AREA.

B CONDUIT IN EXPOSED CEILING SPACES SHALL BE CONCEALED INSIDE WALLS. EXPOSED CONDUIT SHALL ONLY BE ALLOWED IN JOIST SPACE NEAR ROOF.

C ALL CONDUIT ENDS FOR CABLING NOT CONNECTED TO A BOX OR FITTING SHALL BE PROVIDED WITH NYLON BUSHINGS TO PROTECT CABLING FROM DAMAGE.

D ALL MOUNTING HEIGHTS REFER TO BOTTOM OF BOX, UNO.

#	KEYNOTE DESCRIPTION
1	DOOR PROVIDED WITH ELECTRIC STRIKE BY DOOR HARDWARE SUPPLIER. DOOR HARDWARE SUPPLIER TO PROVIDE POWER PACK WITH DRY CONTACT FOR ELECTRIC STRIKE. PROVIDE WIRING FROM ELECTRIC STRIKE POWER PACK TO ACCESS CONTROL SYSTEM. COORDINATE WORK WITH HARDWARE SUPPLIER PRIOR TO ROUGH-IN. CONNECT DOOR TO ACCESS CONTROL SYSTEM TO PROVIDE INDIVIDUAL TIMED CONTROL OF THE ELECTRIC STRIKE. DIVISION 26 TO PROVIDE ALL PATHWAYS AND POWER REQUIRED FOR PROPER OPERATION.
2	EXISTING SECURITY SYSTEM CONTROL PANEL. PROVIDE ZONE EXPANDER PANELS AS REQUIRED FOR THE ADDED SECURITY DEVICES.
3	PROVIDE A KANTECH KT-400 ACCESS CONTROL PANEL.
4	LOCATION OF THE EXISTING TECHNOLOGY RACK.
5	PROVIDE A SECURITY SYSTEM ZONE EXPANDER PANEL IF REQUIRED.
6	DOOR PROVIDED WITH ELECTRIC STRIKE AND POWER PACK BY DOOR HARDWARE SUPPLIER. DIVISION 26 TO PROVIDE POWER TO POWER PACK ABOVE CEILING. BACK BOXES, RACEWAYS, BUSHINGS AND PULL STRINGS FOR CABLING FROM ABOVE CEILING/POWER PACK TO ELECTRIC STRIKE IN DOOR FRAME. CABLING BY SECURITY/ACCESS CONTROL CONTRACTOR. COORDINATE WORK WITH DOOR HARDWARE INSTALLER AND SECURITY/ACCESS CONTROL CONTRACTOR. REFERENCE SHEET E5.1 FOR 120-VOLT POWER REQUIREMENTS.

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STATE OF OHIO
MATTHEW R. HIBNER
1416052
REGISTERED ARCHITECT

MATTHEW R. HIBNER
LICENSE #1416052
EXPIRATION DATE: 12/31/2027

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ADDITION TO:
LAKOTA LOCAL SCHOOLS BUS BUILDING
5186 COUNTY ROAD 13, KANSAS, OHIO 44841

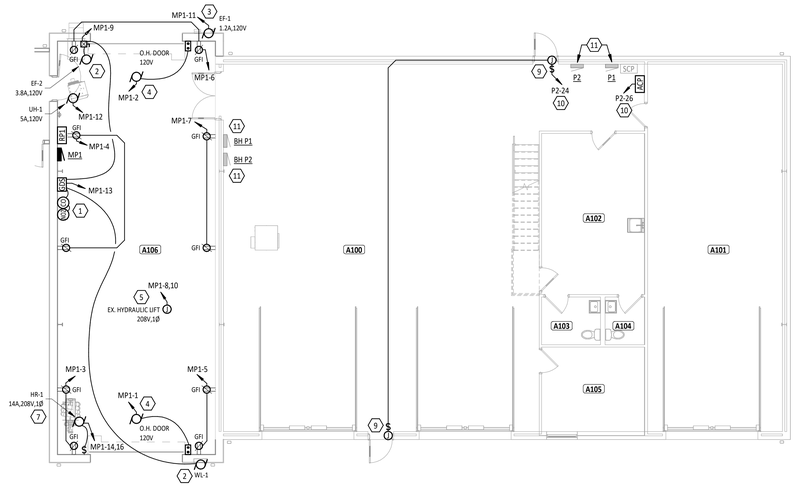
ISSUANCES/REVISIONS

	CONSTRUCTION DOCUMENTS	04/24/2026
1	ADDENDUM 01	05/11/2026

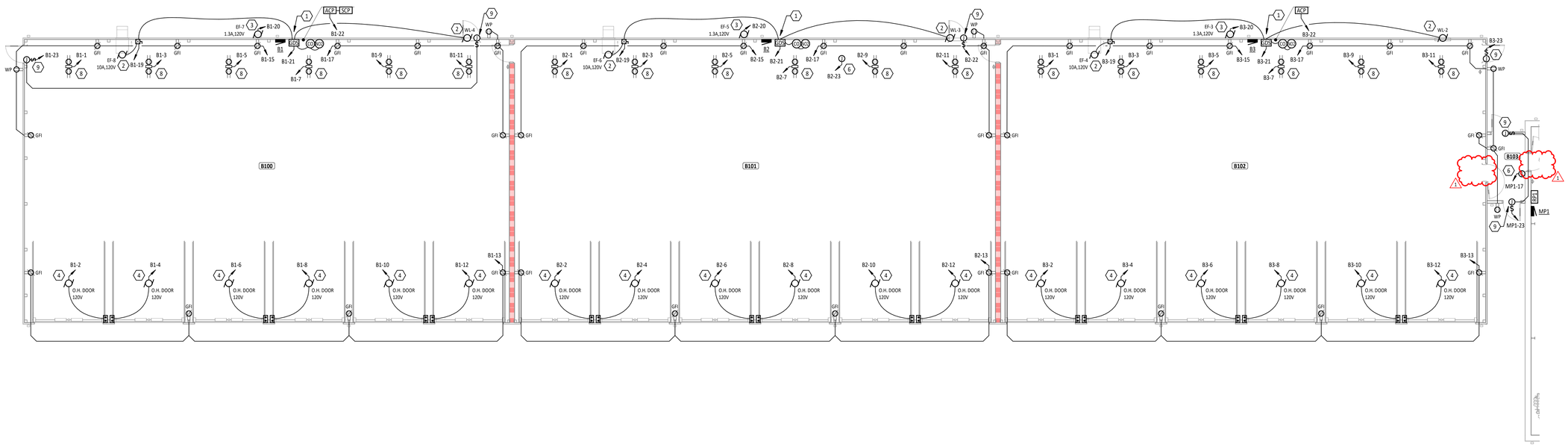
PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
25108.00	CDH	GAW

SHEET TITLE:
SYSTEMS PLANS

SHEET NUMBER:
E3.1



1 / E5.1 **POWER PLAN - UNIT A**
1/8" = 1'-0"



2 / E5.1 **POWER PLAN - UNIT B**
1/8" = 1'-0"

ROOM INDEX

ROOM NUMBER	ROOM NAME	AREA
A100	EXISTING MAINTENANCE	2,079 SF
A101	EXISTING MAINTENANCE	865 SF
A102	EXISTING MEETING ROOM	282 SF
A103	EXISTING RR	48 SF
A104	EXISTING RR	32 SF
A105	EXISTING OFFICE	147 SF
A106	MAINTENANCE	1,111 SF
A200	EXISTING MEZZANINE	539 SF
B100	BUS STORAGE	4,197 SF
B101	BUS STORAGE	4,162 SF
B102	BUS STORAGE	4,197 SF
B103	BREEZEWAY	77 SF
ST1	EXISTING STAIRS	48 SF

POWER GENERAL NOTES

A ALL CONDUCTORS FOR EQUIPMENT CONNECTIONS SHALL BE COPPER UNLESS NOTED OTHERWISE AND APPROVED BY THE MANUFACTURER.

B COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ALL REQUIRED CLEARANCES ABOUT ELECTRICAL EQUIPMENT WITH ACCORDANCE TO THE NATIONAL ELECTRICAL CODE.

C REFER TO MECHANICAL, PLUMBING, AND OTHER APPLICABLE DRAWINGS FOR EXACT EQUIPMENT LOCATIONS.

D MAINTAIN ALL FIRE RATINGS WHERE CONDUIT PENETRATES WALL, CEILINGS, AND FLOORS WITH ONLY U.L. LISTED FIRE ASSEMBLIES.

E ALL MOUNTING HEIGHTS REFER TO BOTTOM OF BOX, UNO.

#	KEYNOTE DESCRIPTION
1	PROVIDE CO AND NO DETECTORS AND CONTROL PANELS. SYSTEM SHALL CONTROL EXHAUST FANS AND WALL LOUVERS AS SHOWN ON DRAWING. REFER TO EXHAUST FAN DETAIL 5 ON SHEET E1.2. PROVIDE TOGGLE SWITCH AT CONTROLLER LOCATION FOR OVERRIDE 'ON'. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE WORK WITH DIVISION 23.
2	EXHAUST FAN AND ASSOCIATED WALL LOUVER TO BE CONTROLLED VIA CO/NO DETECTION SYSTEM. PROVIDE MANUAL OVERRIDE SWITCH AT CO/NO DETECTION SYSTEM CONTROL PANEL LOCATION. REFER TO DETAIL 5 ON SHEET E1.2 FOR ADDITIONAL INFORMATION. COORDINATE WORK WITH DIVISION 23.
3	EXHAUST FAN WITH INTEGRAL DISCONNECT SHALL OPERATE CONTINUOUSLY. FAN SUPPLIED WITH SPEED CONTROL FOR BALANCING. PROVIDE ELECTRICAL CONNECTIONS AS NECESSARY. COORDINATE WORK WITH DIVISION 23.
4	PROVIDE ALL ELECTRICAL CONNECTIONS TO OVERHEAD DOOR OPERATOR, INCLUDING CONTROLS. COORDINATE MOTOR LOCATION WITH OVERHEAD DOOR INSTALLER. PUSHBUTTONS FURNISHED BY OTHERS, INSTALLED BY DIVISION 26. COORDINATE WORK WITH DOOR INSTALLER.
5	PROVIDE POWER CONNECTION TO OWNER PROVIDED LIFT. DROP EMT FROM ABOVE AND MAKE FINAL CONNECTION TO LIFT.
6	PROVIDE 120V CONNECTION TO HEAT TRACE AS REQUIRED. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DIVISION 22.
7	PROVIDE ELECTRICAL CONNECTIONS TO ENGINE EXHAUST SYSTEM. SYSTEM TO BE CONTROLLED VIA MANUAL SWITCH LOCATED NEAR OVERHEAD DOOR.
8	PROVIDE CORD REEL AND ASSOCIATED DUPLEX RECEPTACLE MOUNTED UP HIGH IN STRUCTURE. REFER TO DETAIL 4 ON SHEET E1.2 FOR ADDITIONAL INFORMATION.

#	KEYNOTE DESCRIPTION
9	PROVIDE POWER CONNECTION FOR ELECTRIC STRIKE POWER PACK(S), TRANSFORMER(S) AND ACCESS CONTROL PANEL(S). REFER TO SHEET E3.1 FOR EXACT QUANTITIES.
10	PROVIDE NEW 20A CIRCUIT BREAKER FOR ACCESS CONTROL CIRCUIT IN EXISTING SQUARE D QO SERIES LOAD CENTER 'P2'. UTILIZE EXISTING SPACE AS NOTED.
11	EXISTING PANEL TO REMAIN. MODIFY AS NECESSARY.

STATE OF OHIO
MATTHEW R. HIBNER
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EXPIRATION DATE: 12/31/2027

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LAKOTA LOCAL SCHOOLS BUS BUILDING

ADDITION TO:
5185 COUNTY ROAD 13, KANSAS, OHIO 44841

ISSUANCES/REVISIONS

	CONSTRUCTION DOCUMENTS	04/24/2026
1	ADDENDUM 01	05/11/2026

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
25108.00	CDH	DNS

SHEET TITLE:
POWER PLANS

SHEET NUMBER:
E5.1

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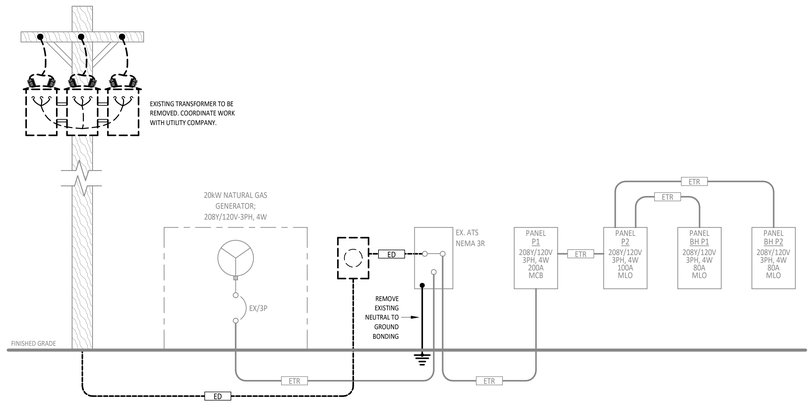
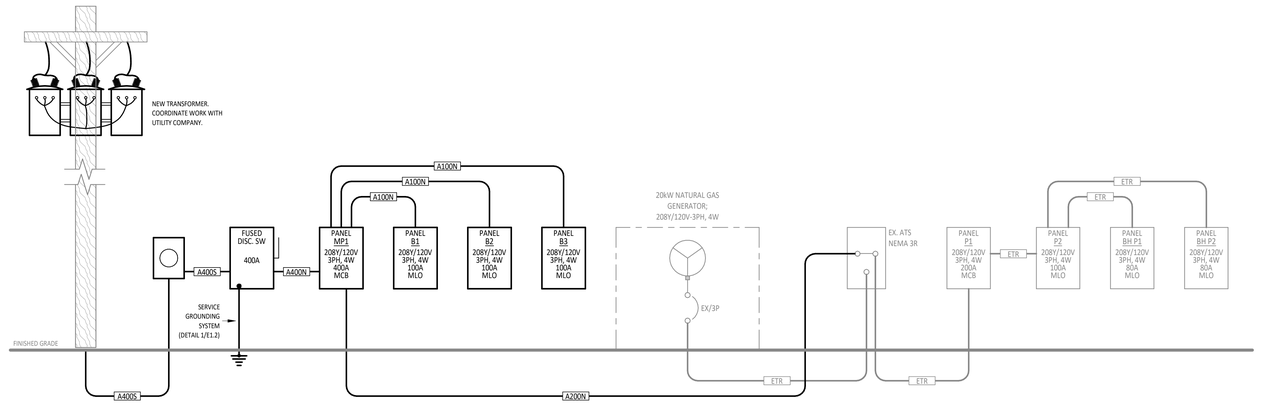


1 E6.1 **DEMOLITION ELECTRICAL ONE-LINE DIAGRAM**
NO SCALE



2 E6.1 **ELECTRICAL ONE-LINE DIAGRAM**
NO SCALE

PANEL MP1 (NEW)

MOUNTING: SURFACE
FED FROM: UTILITY
ENCLOSURE: NEMA 1
LOCATION: MAINTENANCE A106
PANEL NOTES:
PROVIDE PANEL WITH INTERNAL SPD DEVICE.

AIC RATING: 22,000 AIC
VOLTAGE: 208Y/120V 3PH 4W
MAINS RATING: 400 A
MAINS TYPE: 400 A | MCB
OTHER:

NOTE	CIRCUIT DESCRIPTION	POLES	AMP	CKT	A	B	C	CKT	AMP	POLES	CIRCUIT DESCRIPTION	NOTE
	OVERHEAD DOOR MAINTENANCE	1	20	1	1656 / 1656			2	20	1	OVERHEAD DOOR MAINTENANCE	
	RECEPTACLE MAINTENANCE A106	1	20	3		360 / 360		4	20	1	RECEPTACLE MAINTENANCE A106	
	RECEPTACLE MAINTENANCE A106	1	20	5			360 / 360	6	20	1	RECEPTACLE MAINTENANCE A106	
	RECEPTACLE MAINTENANCE A106	1	20	7	360 / 1373			8				
									20	2	HYDRAULIC LIFT	
	EF-2, WL-1	1	15	9		365 / 1373		10				
	EF-1	1	15	11			115 / 480	12	15	1	UH-1	
	GAS DETECTION SYSTEM	1	20	13	100 / 1165			14				
	LIGHTING	1	20	15		865 / 1165		16	20	2	ENGINE EXHAUST	
	HEAT TRACE	1	20	17			1200 / 73	18	20	1	POLE LIGHTING	
1	ADDITION BUILDING MOUNTED LIGHTING	1	20	19	998 / 0			20	20	1	SPARE BREAKER	
	EXISTING SPACE BUILDING MOUNTED LIGHTING	1	20	21		122 / 0		22	20	1	SPARE BREAKER	
	ACCESS CONTROL	1	20	23			150 / 0	24	20	1	SPARE BREAKER	
	SPARE BREAKER	1	20	25	0 / 0			26	20	1	SPARE BREAKER	
	SPARE BREAKER	1	20	27		0 / 0		28	20	1	SPARE BREAKER	
	SPARE BREAKER	1	20	29			0 / 0	30	20	1	SPARE BREAKER	
				31	7063 / 7060			32				
2	B1	3	100	33		6434 / 5807		34	100	3	B2	2
				35			5190 / 6288	36				
				37	21243 / 7060			38				
2	P1	3	200	39		18396 / 6257		40	100	3	B3	2
				41			16572 / 5546	42				

VA SUBTOTALS: 49634 VA 41416 VA 36313 VA
AMP SUBTOTALS: 420 A 352 A 303 A

LOAD TYPE:	CONNECTED VA	DEMAND FACTOR	DEMAND VA	DEMAND AMPS	SUBTOTAL	PHASE
HVAC EQUIPMENT	2774 VA	100.0%	2774 VA	8 A	49634 VA	*A*
LIGHTING	9680 VA	125.0%	12111 VA	34 A	41416 VA	*B*
MOTORS	36890 VA	101.6%	37472 VA	104 A	36313 VA	*C*
RECEPTACLE	15452 VA	82.4%	12726 VA	35 A	***PANEL TOTALS***	
MISC EQUIPMENT	63157 VA	80.0%	50525 VA	140 A	127357 VA	**CONNECTED**
					114959 VA	**DEMAND**
					354 A	**CONNECTED**
					319 A	**DEMAND**

CIRCUIT NOTES:
1 | 2-8 AWG CU, 1-8 AWG CU G., 1" C.
2 | REFER TO ONE LINE DIAGRAM FOR FEEDER INFORMATION

PANEL B3 (NEW)

MOUNTING: SURFACE
FED FROM: MP1
ENCLOSURE: NEMA 1
LOCATION: BUS STORAGE B102
PANEL NOTES:
PROVIDE PANEL WITH INTERNAL SPD DEVICE.

AIC RATING: 10,000 AIC
VOLTAGE: 208Y/120V 3PH 4W
MAINS RATING: 100 A
MAINS TYPE: MLO
OTHER:

NOTE	CIRCUIT DESCRIPTION	POLES	AMP	CKT	A	B	C	CKT	AMP	POLES	CIRCUIT DESCRIPTION	NOTE
	BLOCK HEATER CORD REEL BAY 1	1	20	1	360 / 1656			2	20	1	OVERHEAD DOOR BAY 1	
	BLOCK HEATER CORD REEL BAY 2	1	20	3		360 / 1656		4	20	1	OVERHEAD DOOR BAY 2	
	BLOCK HEATER CORD REEL BAY 3	1	20	5			360 / 1656	6	20	1	OVERHEAD DOOR BAY 3	
	BLOCK HEATER CORD REEL BAY 4	1	20	7	360 / 1656			8	20	1	OVERHEAD DOOR BAY 4	
	BLOCK HEATER CORD REEL BAY 5	1	20	9		360 / 1656		10	20	1	OVERHEAD DOOR BAY 5	
	BLOCK HEATER CORD REEL BAY 6	1	20	11			360 / 1656	12	20	1	OVERHEAD DOOR BAY 6	
	RECEPTACLE BUS STORAGE B102	1	20	13	720 / 1324			14	20	1	LIGHTING	
	RECEPTACLE BUS STORAGE B102	1	20	15		720 / 996		16	20	1	LIGHTING	
	RECEPTACLE BUS STORAGE B102	1	20	17			1260 / 224	18	20	1	LIGHTING BUS STORAGE B102	
	EF-4, WL-2	1	20	19	960 / 125			20	15	1	EF-3	
	GAS DETECTION SYSTEM	1	20	21		100 / 500		22	20	1	SECURITY PANEL	
	ACCESS CONTROL	1	20	23			100 / 0	24	20	1	SPARE BREAKER	
	SPARE BREAKER	1	20	25	0 / 0			26	20	1	SPARE BREAKER	
	SPARE BREAKER	1	20	27		0 / 0		28	20	1	SPARE BREAKER	
	SPARE BREAKER	1	20	29			0 / 0	30	20	1	SPARE BREAKER	

VA SUBTOTALS: 7060 VA 6257 VA 5546 VA
AMP SUBTOTALS: 60 A 53 A 46 A

LOAD TYPE:	CONNECTED VA	DEMAND FACTOR	DEMAND VA	DEMAND AMPS	SUBTOTAL	PHASE
HVAC EQUIPMENT	1085 VA	100.0%	1085 VA	3 A	7060 VA	*A*
LIGHTING	2544 VA	125.0%	3180 VA	9 A	6257 VA	*B*
MOTORS	9936 VA	104.2%	10350 VA	29 A	5546 VA	*C*
RECEPTACLE	4738 VA	100.0%	4738 VA	13 A	***PANEL TOTALS***	
MISC EQUIPMENT	700 VA	100.0%	700 VA	2 A	18862 VA	**CONNECTED**
					19694 VA	**DEMAND**
					52 A	**CONNECTED**
					55 A	**DEMAND**

CIRCUIT NOTES:

PANEL B1 (NEW)

MOUNTING: SURFACE
FED FROM: MP1
ENCLOSURE: NEMA 1
LOCATION: BUS STORAGE B100
PANEL NOTES:
PROVIDE PANEL WITH INTERNAL SPD DEVICE.

AIC RATING: 10,000 AIC
VOLTAGE: 208Y/120V 3PH 4W
MAINS RATING: 100 A
MAINS TYPE: MLO
OTHER:

NOTE	CIRCUIT DESCRIPTION	POLES	AMP	CKT	A	B	C	CKT	AMP	POLES	CIRCUIT DESCRIPTION	NOTE
	BLOCK HEATER CORD REEL BAY 1	1	20	1	360 / 1656			2	20	1	OVERHEAD DOOR BAY 1	
	BLOCK HEATER CORD REEL BAY 2	1	20	3		360 / 1656		4	20	1	OVERHEAD DOOR BAY 2	
	BLOCK HEATER CORD REEL BAY 3	1	20	5			360 / 1656	6	20	1	OVERHEAD DOOR BAY 3	
	BLOCK HEATER CORD REEL BAY 4	1	20	7	360 / 1656			8	20	1	OVERHEAD DOOR BAY 4	
	BLOCK HEATER CORD REEL BAY 5	1	20	9		360 / 1656		10	20	1	OVERHEAD DOOR BAY 5	
	BLOCK HEATER CORD REEL BAY 6	1	20	11			360 / 1656	12	20	1	OVERHEAD DOOR BAY 6	
	RECEPTACLE BUS STORAGE B100	1	20	13	720 / 1327			14	20	1	LIGHTING	
	RECEPTACLE BUS STORAGE B100	1	20	15		900 / 993		16	20	1	LIGHTING	
	RECEPTACLE BUS STORAGE B100	1	20	17			900 / 227	18	20	1	WALL MOUNTED LIGHTING	
	EF-8, WL-4	1	20	19	960 / 125			20	15	1	EF-7	
	GAS DETECTION SYSTEM	1	20	21		100 / 500		22	20	1	SECURITY PANEL	
	ACCESS CONTROL	1	20	23			100 / 0	24	20	1	SPARE BREAKER	
	SPARE BREAKER	1	20	25	0 / 0			26	20	1	SPARE BREAKER	
	SPARE BREAKER	1	20	27		0 / 0		28	20	1	SPARE BREAKER	
	SPARE BREAKER	1	20	29			0 / 0	30	20	1	SPARE BREAKER	

VA SUBTOTALS: 7063 VA 6434 VA 5190 VA
AMP SUBTOTALS: 60 A 55 A 43 A

LOAD TYPE:	CONNECTED VA	DEMAND FACTOR	DEMAND VA	DEMAND AMPS	SUBTOTAL	PHASE
HVAC EQUIPMENT	1085 VA	100.0%	1085 VA	3 A	7063 VA	*A*
LIGHTING	2547 VA	125.0%	3184 VA	9 A	6434 VA	*B*
MOTORS	9936 VA	104.2%	10350 VA	29 A	5190 VA	*C*
RECEPTACLE	4562 VA	100.0%	4562 VA	13 A	***PANEL TOTALS***	
MISC EQUIPMENT	700 VA	100.0%	700 VA	2 A	18685 VA	**CONNECTED**
					19719 VA	**DEMAND**
					52 A	**CONNECTED**
					55 A	**DEMAND**

CIRCUIT NOTES:

PANEL B2 (NEW)

MOUNTING: SURFACE
FED FROM: MP1
ENCLOSURE: NEMA 1
LOCATION: BUS STORAGE B101
PANEL NOTES:
PROVIDE PANEL WITH INTERNAL SPD DEVICE.

AIC RATING: 10,000 AIC
VOLTAGE: 208Y/120V 3PH 4W
MAINS RATING: 100 A
MAINS TYPE: MLO
OTHER:

NOTE	CIRCUIT DESCRIPTION	POLES	AMP	CKT	A	B	C	CKT	AMP	POLES	CIRCUIT DESCRIPTION	NOTE
	BLOCK HEATER CORD REEL BAY 1	1	20	1	360 / 1656			2	20	1	OVERHEAD DOOR BAY 1	
	BLOCK HEATER CORD REEL BAY 2	1	20	3		360 / 1656		4	20	1	OVERHEAD DOOR BAY 2	
	BLOCK HEATER CORD REEL BAY 3	1	20	5			360 / 1656	6	20	1	OVERHEAD DOOR BAY 3	
	BLOCK HEATER CORD REEL BAY 4	1	20	7	360 / 1656			8	20	1	OVERHEAD DOOR BAY 4	
	BLOCK HEATER CORD REEL BAY 5	1	20	9		360 / 1656		10	20	1	OVERHEAD DOOR BAY 5	
	BLOCK HEATER CORD REEL BAY 6	1	20	11			360 / 1656	12	20	1	OVERHEAD DOOR BAY 6	
	RECEPTACLE BUS STORAGE B101	1	20	13	720 / 1324			14	20	1	LIGHTING	
	RECEPTACLE BUS STORAGE B101	1	20	15		720 / 993		16	20	1	LIGHTING	
	RECEPTACLE BUS STORAGE B101	1	20	17			900 / 227	18	20	1	WALL MOUNTED LIGHTING	
	EF-6, WL-3	1	20	19	960 / 125			20	15	1	EF-5	
	GAS DETECTION SYSTEM	1	20	21		100 / 50		22	20	1	ACCESS CONTROL	
	HEAT TRACE	1	20	23			1200 / 0	24	20	1	SPARE BREAKER	
	SPARE BREAKER	1	20	25	0 / 0			26	20	1	SPARE BREAKER	
	SPARE BREAKER	1	20	27		0 / 0		28	20	1	SPARE BREAKER	
	SPARE BREAKER	1	20	29			0 / 0	30	20	1	SPARE BREAKER	

VA SUBTOTALS: 7060 VA 5807 VA 6288 VA
AMP SUBTOTALS: 59 A 48 A 53 A

LOAD TYPE:	CONNECTED VA	DEMAND FACTOR	DEMAND VA	DEMAND AMPS	SUBTOTAL	PHASE
HVAC EQUIPMENT	125 VA	100.0%	125 VA	0 A	7060 VA	*A*
LIGHTING	2544 VA	125.0%	3180 VA	9 A	5807 VA	*B*
MOTORS	10896 VA	103.8%	11310 VA	31 A	6288 VA	*C*
RECEPTACLE	4386 VA	100.0%	4386 VA	12 A	***PANEL TOTALS***	
MISC EQUIPMENT	1350 VA	100.0%	1350 VA	4 A	19150 VA	**CONNECTED**
					20183 VA	**DEMAND**
					53 A	**CONNECTED**
					56 A	**DEMAND**

CIRCUIT NOTES:

FEEDER SCHEDULE

GENERAL NOTES:
- ELECTRICAL CONTRACTOR SHALL PROVIDE THE NUMBER OF LUGS AND PROPER LUG SIZES TO ACCEPT CONDUCTOR SIZES SHOWN.
- ALL CONDUCTORS ARE BASED ON COPPER, UNLESS NOTED OTHERWISE.

MARK	FEEDER DESCRIPTION
A100N	(4) #1/0 AL., #6 AL. G, 2"C
A200N	(4) #250 KCMIL AL., #4 AL. G, 2-1/2"C
A400N	(2) PARALLEL SETS OF (4) #250 KCMIL AL., #1 AL. G, 2-1/2"C
A400S	(2) PARALLEL SETS OF (4) #250 KCMIL AL, 3"C
ED	EXISTING FEED TO BE REMOVED
ETR	EXISTING FEED TO REMAIN

LUMINAIRE SCHEDULE

MARK	MOUNTING	LAMPS TYPE	LAMPS MIN. LUMENS	LAMPS CCT	LAMPS CRI	BALLAST/DRIVER	FIXTURE VOLTAGE	INPUT WATTS	FIXTURE DESCRIPTION	COMMENTS	BASIS OF DESIGN & APPROVED MANUFACTURERS
E	EXISTING	N/A	N/A	N/A	N/A	N/A	N/A	0 W	EXISTING FIXTURE TO REMAIN.		N/A
ED	EXISTING	N/A	N/A	N/A	N/A	N/A	N/A	0 W	EXISTING FIXTURE TO BE DEMOLISHED.		N/A
EM1	WALL	LED	N/A	N/A	N/A	N/A	UNV	3 W	LED EMERGENCY FIXTURE, DIE-CAST ALUMINUM HOUSING, POWDER COAT FINISH, LITHIUM IRON PHOSPHATE BATTERY FOR 90 MINUTES OF BATTERY BACKUP, COLD WEATHER RATED, U.L. WET LISTED.	MOUNT FIXTURE AT 8'-0" AFF. CONNECT AHEAD OF LOCAL SWITCHING.	LITHONIA | AFB OEL DWHGXD UVOLT LTP WT CW EMERGI-LITE | LUX SERIES SURE-LITES | SELDWT SERIES EXITRONIX | TRL SERIES
EM2	WALL	LED	N/A	N/A	N/A	N/A	UNV	3 W	WHITE THERMOPLASTIC LED EMERGENCY LIGHT, 90 MINUTES OF BATTERY BACKUP, U.L. LISTED.	MOUNT FIXTURE AT 8'-0" AFF. CONNECT AHEAD OF LOCAL SWITCHING.	LITHONIA | ELM2L M12 COMPASS CU2 SERIES SURE-LITES | SEL SERIES EXITRONIX | QMR SERIES
P1	25'-0" POLE	LED	8700 lm	4000K	70 CRI	0-10V DIMMING DOWN TO 10%	UNV	69 W	POLE MOUNTED FIXTURE. TYPE II DISTRIBUTION, POWDER COATED DIE-CAST ALUMINUM HOUSING WITH INTEGRAL HEAT SINK FINS, CLEAR ACRYLIC LENS, U.L. WET LISTED.	PROVIDE A 25' X 5", 11 GA. STEEL POLE (LITHONIA RSS SERIES OR EQUAL). PROVIDE VIBRATION DAMPENERS. PROVIDE PHOTOCELL ACCESSORY FOR CONTROL OF FIXTURE.	LITHONIA | DSX0 LED P3 40K 70CRI T2M MVOLT SPA BEACON | VP1 SERIES MCGRAW EDISON | GALN SERIES GARDCO | OPF-S SERIES
RE	EXISTING	N/A	N/A	N/A	N/A	N/A	N/A	0 W	EXISTING POLE TO BE RELOCATED.		N/A
S1	WALL/SUSPENDED	LED	5000 lm	4000K	80 CRI	0-10V DIMMING DOWN TO 10%	UNV	34 W	WALL MOUNTED/SUSPENDED 4' LED STRIP LIGHT, SNAP ON/OFF DIFFUSE LENS, U.L. LISTED.	MOUNT FIXTURE AT 8'-0" AFF.	LITHONIA | ZL1N L48 5000LM FST MVOLT 40K 80CRI WH COLUMBIA | MPS SERIES METALUX | SNS SERIES DAY-BRITE | SDS SERIES
S2	SUSPENDED	LED	7000 lm	4000K	80 CRI	0-10V DIMMING DOWN TO 10%	UNV	52 W	SUSPENDED 4' LED STRIP LIGHT, SNAP ON/OFF DIFFUSE LENS, U.L. LISTED.	MOUNT FIXTURE AT 14'-0" AFF.	LITHONIA | ZL1N L48 7000LM FST MVOLT 40K 80CRI WH COLUMBIA | MPS SERIES METALUX | SNS SERIES DAY-BRITE | SDS SERIES
S3	SUSPENDED	LED	14000 lm	4000K	80 CRI	0-10V DIMMING DOWN TO 10%	UNV	104 W	SUSPENDED 8' LED STRIP LIGHT, SNAP ON/OFF DIFFUSE LENS, U.L. LISTED.	MOUNT FIXTURE AT 14'-0" AFF.	LITHONIA | ZL1N L96 14000LM FST MVOLT 40K 80CRI WH COLUMBIA | MPS SERIES METALUX | SNS SERIES DAY-BRITE | SDS SERIES
WP1	WALL	LED	1200 lm	4000K	80 CRI	0-10V DIMMING DOWN TO 10%	UNV	11 W	ARCHITECTURAL WEDGE SHAPED WALL SCONCE, TYPE IV DISTRIBUTION, DIE-CAST ALUMINUM HOUSING, ACRYLIC LENS, FULLY GASKETED, COLD WEATHER RATED BATTERY FOR 90 MINUTES OF BATTERY BACK UP, U.L. WET LISTED.	MOUNT FIXTURE AT 8'-0" AFF.	LITHONIA | WDGE2 LED P1 40K 80CRI T4M MVOLT E20WC BEACON | VPW SERIES MCGRAW EDISON | GKO SERIES GARDCO | GWS SERIES
WP2	WALL	LED	4000 lm	4000K	80 CRI	0-10V DIMMING DOWN TO 10%	UNV	47 W	ARCHITECTURAL WEDGE SHAPED WALL SCONCE, FORWARD THROW DISTRIBUTION, DIE-CAST ALUMINUM HOUSING, ACRYLIC LENS, FULLY GASKETED, U.L. WET LISTED.	MOUNT FIXTURE AT 12'-0" AFF.	LITHONIA | WDGE2 LED P4 40K 80CRI TFTM MVOLT BEACON | VPW SERIES MCGRAW EDISON | GKO SERIES GARDCO | GWS SERIES
X1	WALL	LED	N/A	N/A	N/A	N/A	UNV	3 W	WHITE CAST ALUMINUM LED EXIT SIGN, RED LETTERING, WALL MOUNT, SINGLE FACE, COLD WEATHER AND NEMA 4X WET LOCATION LISTED BATTERY, U.L. LISTED.	MOUNT 4" ABOVE DOOR FOR WALL MOUNTED FIXTURES. CONNECT AHEAD OF LOCAL SWITCHING.	LITHONIA | LV S W 1 R 120/277 EL N CW DUAL LITE | SEWL SERIES SURE-LITES EXITRONIX | HLE SERIES
X2	WALL	LED	N/A	N/A	N/A	N/A	UNV	3 W	WHITE THERMOPLASTIC LED EXIT SIGN, RED LETTERING, CEILING OR WALL MOUNT, SINGLE OR DOUBLE FACED, ARROWS AS INDICATED, U.L. LISTED.	MOUNT 4" ABOVE DOOR FOR WALL MOUNTED FIXTURES. CONNECT AHEAD OF LOCAL SWITCHING.	LITHONIA | LQM SERIES COMPASS | CE SERIES SURE-LITES | APX SERIES EXITRONIX | ILX SERIES

1

STATE OF OHIO
MATTHEW R. HIBNER 1416052
REGISTERED ARCHITECT
MATTHEW R. HIBNER
LICENSE #1416052
EXPIRATION DATE: 12/31/2027

GARMANN MILLER
MARION, OHIO | COLUMBUS, OHIO | INDIANAPOLIS, INDIANA | FORT WAYNE, INDIANA
mmkgm.com

ADDITION TO:
LAKOTA LOCAL SCHOOLS BUS BUILDING
5186 COUNTY ROAD 13, KANSAS, OHIO 44841

ISSUANCES/REVISIONS

	CONSTRUCTION DOCUMENTS	04/24/2026
1	ADDENDUM 01	05/11/2026

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:
25108.00	CDH	DNS

SHEET TITLE:
ELECTRICAL ONE-LINE DIAGRAM

SHEET NUMBER:
E6.1

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