ADDENDUM NO. 01

February 14, 2024

ZCS-ZCHS Stadium Locker Building & Concrete Repairs, ZMS Tennis Courts and Eagle Elementary Building Demolition & Playground Renovation
1000 Mulberry St.
Zionsville, IN, 46077

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated January 22, 2024, by Fanning Howey (Architect). Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 through ADD 1 - 3 and attached Addendum No. 1 from Fanning Howey dated February 14, 2024 for **Zionsville High School 223139.00** consisting of 5 pages, specification section 10 14 23.16 – Interior Panel Signage, and 29 Drawings. **Eagle Elementary 223135.00** consisting of 1 page and 2 Drawings, and **Zionsville Middle School 223144.00** consisting of 1 page and 2 Drawings.

1. **00 20 00 – Information Available to Bidders**
   B. ZCHS Site Logistics Plan is included as part of this Addendum.
   C. ZMS Site Logistics Plan is included as part of this Addendum.
   D. Eagle Elementary Site Logistics Plan included as part of this Addendum.
   E. Pre-Award Meetings are scheduled as noted below:
      Bid Category #01 – 2/27/24 @ 9:00am
      Bid Category #02 – 2/27/24 @ 10:00am
      Bid Category #03 – 2/27/24 @ 12:00pm
      Bid Category #04 – 2/27/24 @ 1:00pm
      Bid Category #05 – 2/27/24 @ 2:30pm

2. **00 31 00 – Bid Form**
   A. Replace existing specification section in entirety with specification section included as part of this Addendum.

3. 01 12 00 – Multiple Contract Summary

A. Bid Category No. 1 – General Trades at ZCHS

Remove the following Specification Sections from Scope of Work:
01 51 10 – Temporary Electricity, Lighting and Warning Systems
01 51 30 – Temporary Heating, Ventilation and Cooling
01 51 50 – Temporary Water

Add the following Clarifications:

19. Contractor is responsible for the stone access drive(s) and laydown areas as noted in Site Logistics Plan.
20. Contractor is required to remove and haul off all stone access and laydown areas in existing landscaping. Fill with topsoil and seed at the conclusion of the project.
21. Contractor to review Site Utility, Site Demolition and Site Layout Plan to ensure concrete sidewalk demolition and putback corresponds with the underground utility work. Specifically, the 42 LF of 12" HDPE pipe that runs between existing structure EX F12 and New Structure furthest west. It appears additional concrete demo and replacement is required to accommodate this work. The intent would be to replace existing walk to nearest control joint.
22. Equipment operation outside of temporary construction fencing is prohibited during pickup, drop off and bus hours. Estimated times are Monday – Friday, 8:00 – 9:00am and 3:15-4:15pm.
23. Deliveries are prohibited during pickup, drop off and bus hours. Estimated times are Monday – Friday, 8:00 – 9:00am and 3:15-4:15pm.

B. Bid Category No. 2 – Plumbing & HVAC at ZCHS (223139.00)

Add the following Clarifications:

9. Equipment operation outside of temporary construction fencing is prohibited during pickup, drop off and bus hours. Estimated times are Monday – Friday, 8:00 – 9:00am and 3:15 – 4:15pm.
10. Deliveries are prohibited during pickup, drop off and bus hours. Estimated times are Monday – Friday, 8:00 – 9:00am and 3:15 – 4:15pm.

C. Bid Category No. 3 – Electrical & Technology at ZCHS (223139.00)

Add the following Clarifications:

8. Equipment operation outside of temporary construction fencing is prohibited during pickup, drop off and bus hours. Estimated times are Monday – Friday, 8:00 – 9:00am and 3:15 – 4:15pm.
9. Deliveries are prohibited during pickup, drop off and bus hours. Estimated times are Monday – Friday, 8:00 – 9:00am and 3: 3:15 – 4:15pm.

D. Bid Category No. 4 – General Trades at ZMS (223144.00)

Add the following Clarifications:

5. Contractor is required to remove and haul off all stone access and laydown areas in existing landscaping. Fill with topsoil and seed at the conclusion of the project.
6. Equipment operation outside of temporary construction fencing is prohibited during pickup, drop off and bus hours. Estimated times are Monday – Friday, 8:30 – 9:30am and 3:15 – 4:15pm.
7. Deliveries are prohibited during pickup, drop off and bus hours. Estimated times are Monday – Friday, 8:30 – 9:30am and 3:15 – 4:15pm.

E. Bid Category No. 5 – General Trades at Eagle Elementary (223135.00)

Add the following Clarifications:

7. Contractor is required to remove and haul off all stone access and laydown areas in existing landscaping. Fill with topsoil and seed at the conclusion of the project.
8. Equipment operation outside of temporary construction fencing is prohibited during pickup, drop off and bus hours. Estimated times are Monday – Friday, 7:30 – 8:30am and 2:00 – 3:00pm.
9. Deliveries are prohibited during pickup, drop off and bus hours. Estimated times are Monday – Friday, 7:30 – 8:30am and 2:00 – 3:00pm.

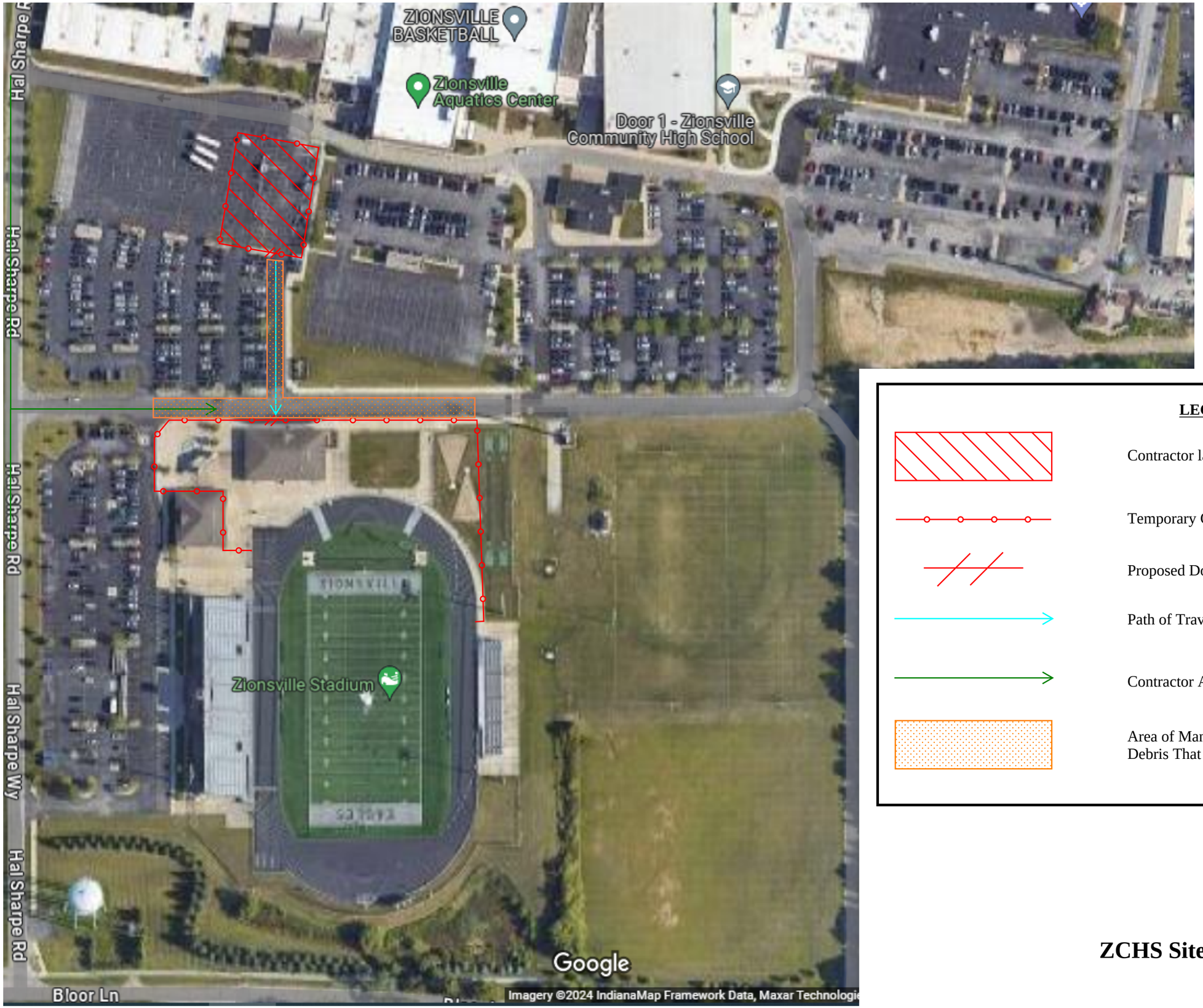
4. 01 23 00 – Alternates

A. Replace existing specification section in entirety with specification section included as part of this Addendum.

5. 01 32 00 – Schedules and Reports

A. Guideline Schedule is included as part of this Addendum for reference by all Contractors.

END OF ADDENDUM



LEGEND:

Contractor laydown and parking area.

Temporary Construction Fencing

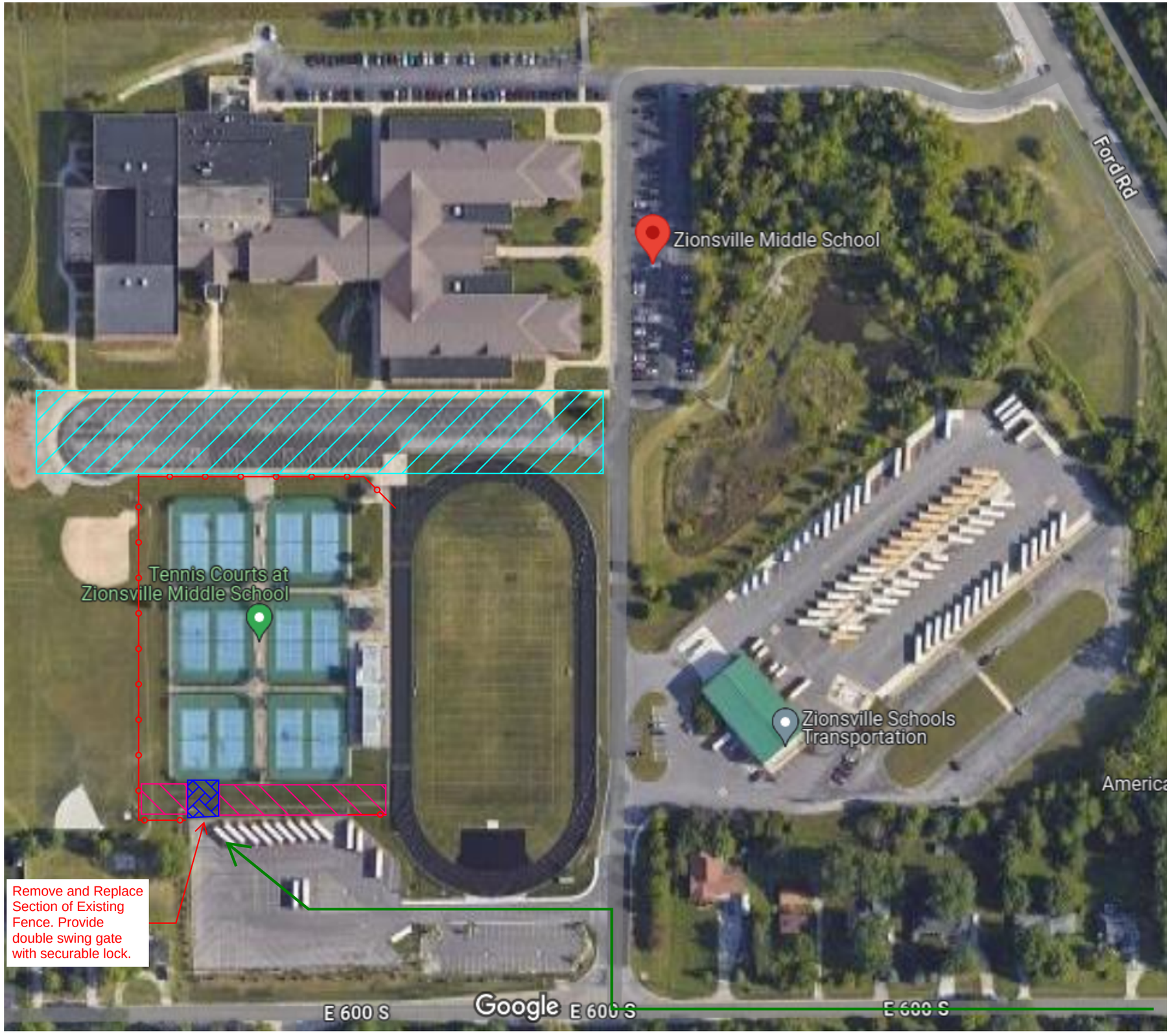
Proposed Double Gate for Access

Path of Travel To / From Laydown & Construction

Contractor Access to Project Site

Area of Mandatory Street Sweeping / Cleaning to Avoid Debris That May Damage Vehicles

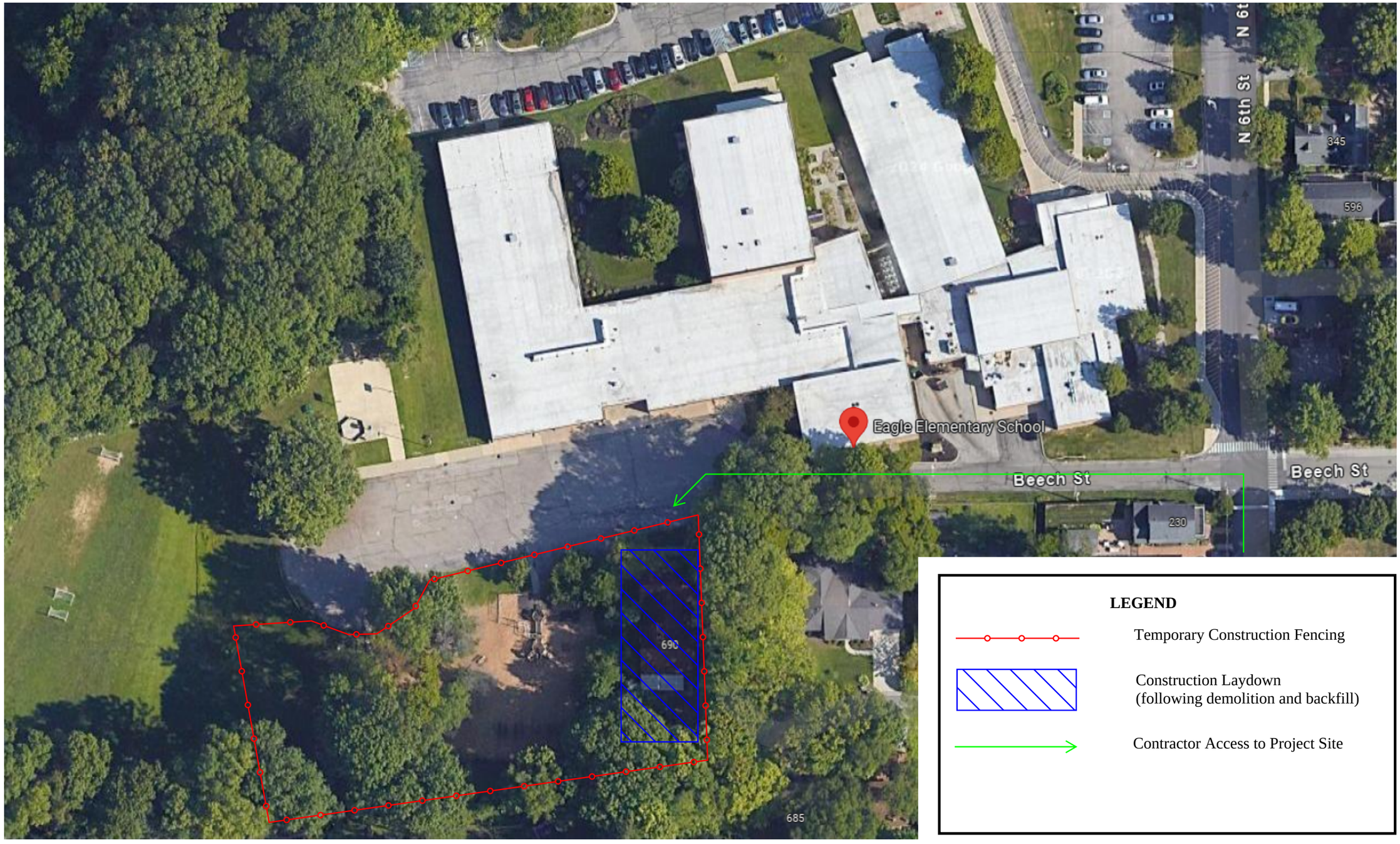
ZCHS Site Logistics Plan



LEGEND:

- Temporary Construction Fencing
- Temporary Stone Access Drive. 12" thick, composed of 8" #8 stone and 4" #53 stone. Intended for equipment and delivery access.
- Temporary Contractor Parking and Laydown. 8" thick composed of #53 stone.
- Prohibited Contractor / Equipment Delivery. Not parking, staging or delivery in this area at any time.
- Access Route for Contractors and Delivery

ZCHS Site Logistics Plan



LEGEND

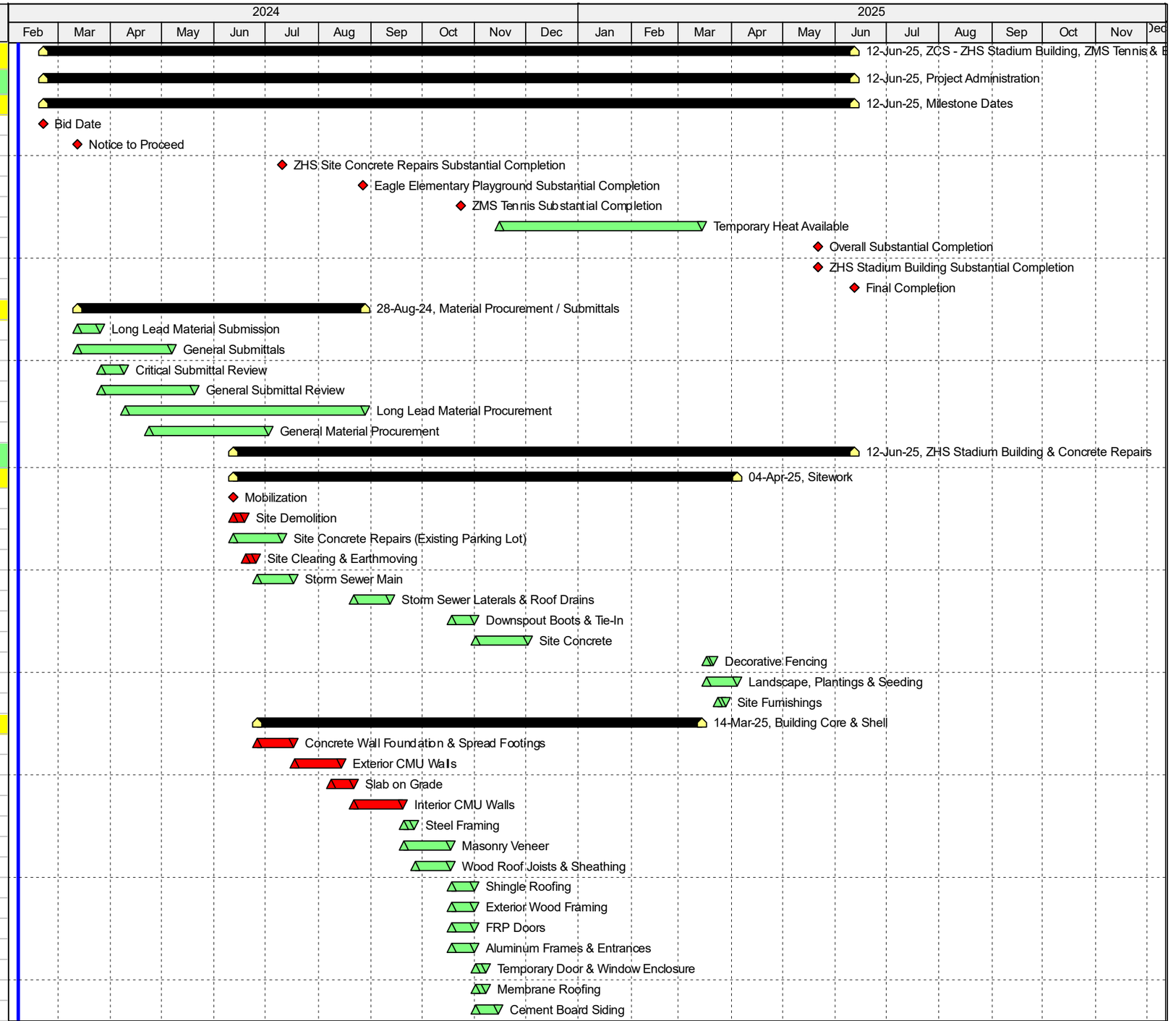
Temporary Construction Fencing

Construction Laydown
(following demolition and backfill)

Contractor Access to Project Site

EAGLE ELEMENTARY SITE LOGISTICS PLAN

Activity Name	Original Duration	Start	Finish
ZCS - ZHS Stadium Building, ZMS Tennis & Ea	334	21-Feb-24	12-Jun-25
Project Administration	334	21-Feb-24	12-Jun-25
Milestone Dates	334	21-Feb-24	12-Jun-25
Bid Date	0	21-Feb-24*	
Notice to Proceed	0	12-Mar-24*	
ZHS Site Concrete Repairs Substantial Completion	0		10-Jul-24
Eagle Elementary Playground Substantial Completion	0		27-Aug-24*
ZMS Tennis Substantial Completion	0		23-Oct-24*
Temporary Heat Available	82	15-Nov-24*	14-Mar-25
Overall Substantial Completion	0		21-May-25*
ZHS Stadium Building Substantial Completion	0		21-May-25*
Final Completion	0		12-Jun-25
Material Procurement / Submittals	120	12-Mar-24	28-Aug-24
Long Lead Material Submission	10	12-Mar-24	25-Mar-24
General Submittals	40	12-Mar-24	06-May-24
Critical Submittal Review	10	26-Mar-24	08-Apr-24
General Submittal Review	40	26-Mar-24	20-May-24
Long Lead Material Procurement	100	09-Apr-24	28-Aug-24
General Material Procurement	50	23-Apr-24	02-Jul-24
ZHS Stadium Building & Concrete Repairs	255	12-Jun-24	12-Jun-25
Sitework	207	12-Jun-24	04-Apr-25
Mobilization	0	12-Jun-24*	
Site Demolition	5	12-Jun-24	18-Jun-24
Site Concrete Repairs (Existing Parking Lot)	20	12-Jun-24	10-Jul-24
Site Clearing & Earthmoving	5	19-Jun-24	25-Jun-24
Storm Sewer Main	15	26-Jun-24	17-Jul-24
Storm Sewer Laterals & Roof Drains	15	22-Aug-24	12-Sep-24
Downspout Boots & Tie-In	10	18-Oct-24	31-Oct-24
Site Concrete	20	01-Nov-24	02-Dec-24
Decorative Fencing	5	17-Mar-25*	21-Mar-25
Landscape, Plantings & Seeding	15	17-Mar-25*	04-Apr-25
Site Furnishings	5	24-Mar-25	28-Mar-25
Building Core & Shell	182	26-Jun-24	14-Mar-25
Concrete Wall Foundation & Spread Footings	15	26-Jun-24	17-Jul-24
Exterior CMU Walls	20	18-Jul-24	14-Aug-24
Slab on Grade	10	08-Aug-24	21-Aug-24
Interior CMU Walls	20	22-Aug-24	19-Sep-24
Steel Framing	5	20-Sep-24	26-Sep-24
Masonry Veneer	20	20-Sep-24	17-Oct-24
Wood Roof Joists & Sheathing	15	27-Sep-24	17-Oct-24
Shingle Roofing	10	18-Oct-24	31-Oct-24
Exterior Wood Framing	10	18-Oct-24	31-Oct-24
FRP Doors	10	18-Oct-24	31-Oct-24
Aluminum Frames & Entrances	10	18-Oct-24	31-Oct-24
Temporary Door & Window Enclosure	5	01-Nov-24	07-Nov-24
Membrane Roofing	5	01-Nov-24	07-Nov-24
Cement Board Siding	10	01-Nov-24	14-Nov-24



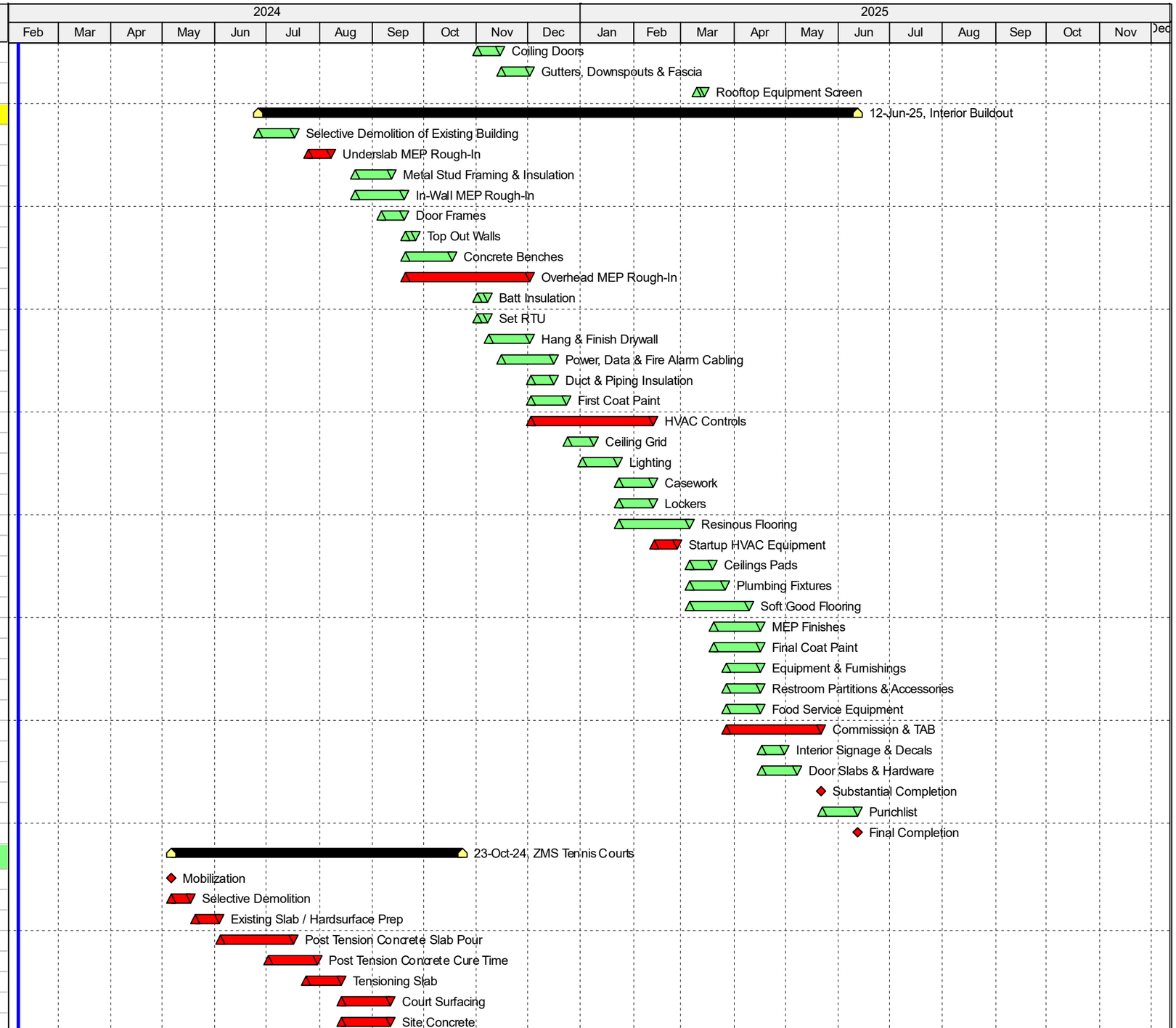
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

ZCS - ZHS Stadium Building, ZMS Tennis Eagle Playground

Guideline Schedule

SKILLMAN

Activity Name	Original Duration	Start	Finish
Coiling Doors	10	01-Nov-24	14-Nov-24
Gutters, Downspouts & Fascia	10	15-Nov-24	02-Dec-24
Rooftop Equipment Screen	5	10-Mar-25*	14-Mar-25
Interior Buildout	245	26-Jun-24	12-Jun-25
Selective Demolition of Existing Building	15	26-Jun-24	17-Jul-24
Underslab MEP Rough-In	10	25-Jul-24	07-Aug-24
Metal Stud Framing & Insulation	15	22-Aug-24	12-Sep-24
In-Wall MEP Rough-In	20	22-Aug-24	19-Sep-24
Door Frames	10	06-Sep-24	19-Sep-24
Top Out Walls	5	20-Sep-24	26-Sep-24
Concrete Benches	20	20-Sep-24	17-Oct-24
Overhead MEP Rough-In	50	20-Sep-24	02-Dec-24
Batt Insulation	5	01-Nov-24	07-Nov-24
Set RTU	5	01-Nov-24	07-Nov-24
Hang & Finish Drywall	15	08-Nov-24	02-Dec-24
Power, Data & Fire Alarm Cabling	20	15-Nov-24	16-Dec-24
Duct & Piping Insulation	10	03-Dec-24	16-Dec-24
First Coat Paint	15	03-Dec-24	23-Dec-24
HVAC Controls	50	03-Dec-24	12-Feb-25
Ceiling Grid	10	24-Dec-24	08-Jan-25
Lighting	15	02-Jan-25	22-Jan-25
Casework	15	23-Jan-25	12-Feb-25
Lockers	15	23-Jan-25	12-Feb-25
Resinous Flooring	30	23-Jan-25	05-Mar-25
Startup HVAC Equipment	10	13-Feb-25	26-Feb-25
Ceilings Pads	10	06-Mar-25	19-Mar-25
Plumbing Fixtures	15	06-Mar-25	26-Mar-25
Soft Good Flooring	25	06-Mar-25	09-Apr-25
MEP Finishes	20	20-Mar-25	16-Apr-25
Final Coat Paint	20	20-Mar-25	16-Apr-25
Equipment & Furnishings	15	27-Mar-25	16-Apr-25
Restroom Partitions & Accessories	15	27-Mar-25	16-Apr-25
Food Service Equipment	15	27-Mar-25	16-Apr-25
Commission & TAB	40	27-Mar-25	21-May-25
Interior Signage & Decals	10	17-Apr-25	30-Apr-25
Door Slabs & Hardware	15	17-Apr-25	07-May-25
Substantial Completion	0		21-May-25*
Punchlist	15	22-May-25	12-Jun-25
Final Completion	0		12-Jun-25
ZMS Tennis Courts	120	06-May-24	23-Oct-24
Mobilization	0	06-May-24*	
Selective Demolition	10	06-May-24	17-May-24
Existing Slab / Hardsurface Prep	10	20-May-24	03-Jun-24
Post Tension Concrete Slab Pour	30	04-Jun-24	16-Jul-24
Post Tension Concrete Cure Time	20	02-Jul-24	30-Jul-24
Tensioning Slab	15	24-Jul-24	13-Aug-24
Court Surfacing	20	14-Aug-24	11-Sep-24
Site Concrete	20	14-Aug-24	11-Sep-24



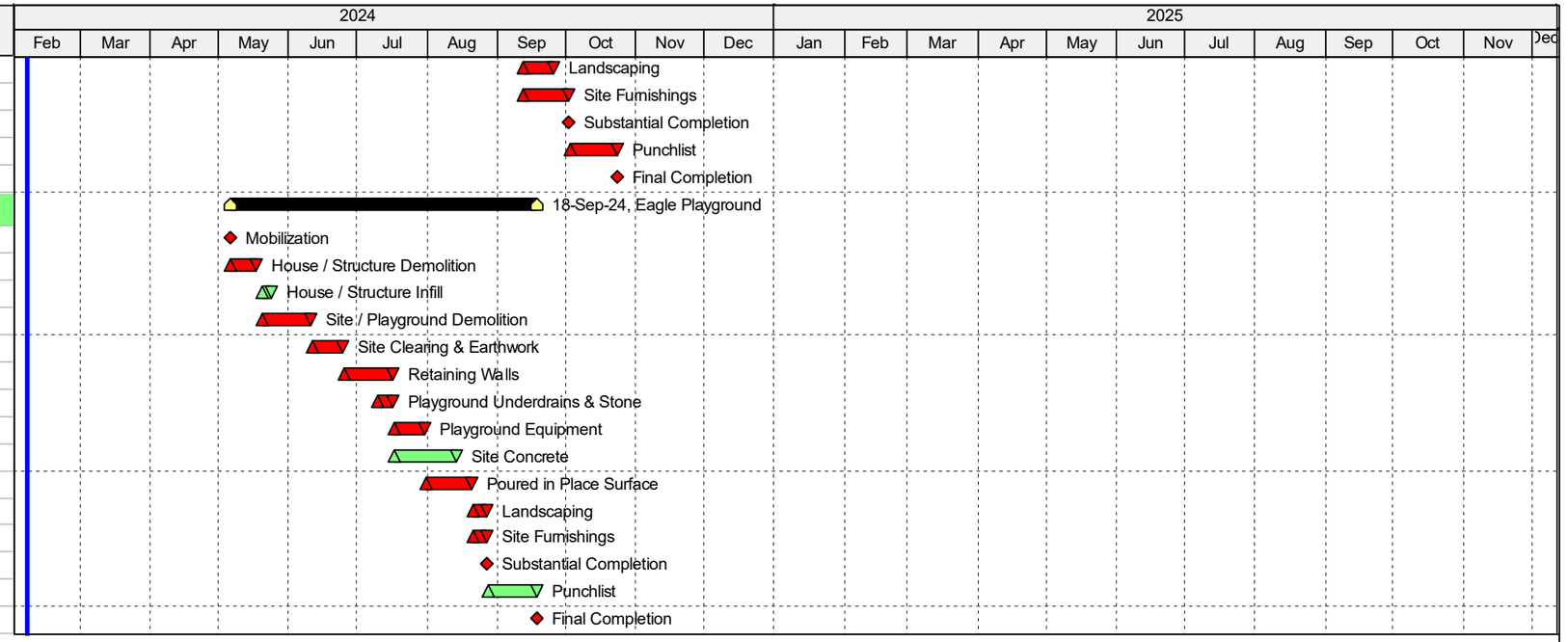
Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

ZCS - ZHS Stadium Building, ZMS Tennis Eagle Playground

Guideline Schedule

SKILLMAN

Activity Name	Original Duration	Start	Finish
Landscaping	10	12-Sep-24	25-Sep-24
Site Furnishings	15	12-Sep-24	02-Oct-24
Substantial Completion	0		02-Oct-24*
Punchlist	15	03-Oct-24	23-Oct-24
Final Completion	0		23-Oct-24
Eagle Playground	95	06-May-24	18-Sep-24
Mobilization	0	06-May-24*	
House / Structure Demolition	10	06-May-24	17-May-24
House / Structure Infill	5	20-May-24	24-May-24
Site / Playground Demolition	15	20-May-24	10-Jun-24
Site Clearing & Earthwork	10	11-Jun-24	24-Jun-24
Retaining Walls	15	25-Jun-24	16-Jul-24
Playground Underdrains & Stone	5	10-Jul-24	16-Jul-24
Playground Equipment	10	17-Jul-24	30-Jul-24
Site Concrete	20	17-Jul-24	13-Aug-24
Poured in Place Surface	15	31-Jul-24	20-Aug-24
Landscaping	5	21-Aug-24	27-Aug-24
Site Furnishings	5	21-Aug-24	27-Aug-24
Substantial Completion	0		27-Aug-24*
Punchlist	15	28-Aug-24	18-Sep-24
Final Completion	0		18-Sep-24



Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

ZCS - ZHS Stadium Building, ZMS Tennis Eagle Playground

Guideline Schedule

SKILLMAN

CONTRACTOR'S BID FOR PUBLIC WORKS FORM NO. 96

Format (Revised 2013)
(Amended for ZCS)

ZCHS Stadium Locker Building & Concrete Repairs, ZMS Tennis Courts and Eagle Elementary Building Demolition & Playground Renovation

Zionsville Community Schools
(Boone, County)

PART I

(To be completed for all bids. Please type or print)

Date (month, day, year):_____

BIDDER (Firm) _____

Address _____ P.O. Box _____

City/State/Zip ___

Telephone Number: _____ Email Address: _____

Person to contact regarding this Bid_____

Pursuant to notices given, the undersigned offers to furnish labor and/or materials necessary to complete the public works project of:

_____
Insert Category No. (s) and Name(s)

Of public works project, ***ZCHS Stadium Locker Building & Concrete Repairs, ZMS Tennis Courts and Eagle Elementary Building Demolition & Playground Renovation***, in accordance with Plans and Specifications prepared by ***Fanning Howey Associates, 350 E New York St. Ste. #300, Indianapolis, IN 46204,***, as follows:

BASE BID

For the sum of _____
(Sum in words)

_____DOLLARS ($_____)
(Sum in figures)

The undersigned acknowledges receipt of the following Addenda:
Receipt of Addenda No. (s) _____

PROPOSAL TIME

Bidder agrees that this Bid shall remain in force for a period of sixty (60) consecutive calendar days from the due date, and Bids may be accepted or rejected during this period. Bids not accepted within said sixty (60) consecutive calendar days shall be deemed rejected.

Attended pre-bid conference YES _____ NO_____

Has visited the jobsite YES _____ NO_____

The Bidder has reviewed the Guideline Schedule in Section 01 32 00 and the intent Of the schedule can be met. YES _____ NO_____

Bidder has included their Written Drug Testing Plan that covers all employees of the bidder who will perform work on the public work project and meets or exceeds the requirements set in IC 4-13-18-5 or IC 4-13-18-6. YES _____ NO_____

The Skillman Corporation's diversity initiative is to create a program to encourage, assist and measure the active participation of Minority- Owned, Women-Owned, Veteran – Owned and Disabled Individual-Owned Businesses. The Program is to ensure that MWVDBEs are provided full and equal opportunity to participate in all Skillman Corporation's Projects.

Bidder has included:
DBE: YES _____% NO _____
MBE: YES _____% NO _____
WBE: YES _____% NO _____
VBE: YES _____% NO _____

The undersigned further agrees to furnish a bond or certified check with this Bid for an amount specified in the Notice to Bidders. If Alternate Bids apply, submit a proposal for each in accordance with the Plans and Specifications.

If additional units of material included in the contract are needed, the cost of units must be the same as that shown in the original contract if accepted by the governmental unit. If the bid is to be awarded on a unit bases, the itemization of the units shall be shown on a separate attachment.

The contractor and his subcontractors, if any, shall not discriminate against or intimidate any employee, or applicant for employment, to be employed in the performance of this contract, with respect to any matter directly or indirectly related to employment because of race, religion, color, sex, national origin or ancestry. Breach of this covenant may be regarded as a material breach of the contract.

CERTIFICATION OF USE OF UNITED STATES STEEL PRODUCTS
(if applicable)

I, the undersigned bidder, or agent as a contractor on a public works project, understand my statutory obligation to use steel products made in the United States (I.C. 5-16-8-2). I hereby certify that I and all subcontractors employed by me for this project will use U.S. steel on this project if awarded. I understand that violations hereunder may result in forfeiture of contractual payments.

ALTERNATE BIDS

A blank entry or an entry of "No Bid", "N/A", or similar entry on any Alternate will cause the bid to be rejected as non-responsive only if that Alternate is selected. If no change in the bid amount is required, indicate "No Change".

****MARK "ADD" OR "DEDUCT" FOR EACH ALTERNATE****

Alternate Bid No. 1 – Eagle Elementary School Park Shelter

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 2 – Fire Alarm by Siemens

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

Alternate Bid No. 3 – Fire Alarm by Notifier

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD DEDUCT
(sum in figures)

(Continue to next page)

Alternate Bid No. 4 – Fire Alarm by National Time and Signal Corporation

Change the Base Bid the sum of_____
(sum in words)

_____DOLLARS ($_____) ADD / DEDUCT
(sum in figures)

PART II

(For projects of $150,000 or more – IC 36-1-12-4)

These statements to be submitted under oath by each bidder with and as a part of his bid. (Attach additional pages for each section as needed.)

SECTION I EXPERIENCE QUESTIONNAIRE

1. What public works projects has your organization completed for the period of one (1) year prior to the date of the current bid?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

2. What public works projects are now in process of construction by your organization?

Contract Amount	Class of Work	Completion Date	Name and Address of Owner

3. Have you ever failed to complete any work awarded to you?_____If so, where and why?

_____

_____

_____

4. List references from private firms for which you have performed work.

_____

_____

_____

SECTION II PLAN AND EQUIPMENT QUESTIONNAIRE

1. Explain your plan or layout for performing proposed Work. (Examples could include a narrative of when you could begin, complete the project, number of workers, etc. and any other information which you believe would enable the governmental unit to consider your bid.)

2. Please list the names and addresses of all subcontractors (i.e. persons or firms outside your own firm who have performed part of the work) that you have used on public works projects during the past five (5) years along with a brief description of the work done by each subcontractor.

3. If you intend to sublet any portion of the work, state the name and addresses of each subcontractor, equipment to be used by the subcontractor, and whether you will required a bond. However, if you are unable to currently provide a listing, please understand a listing must be provided prior to contract approval. Until the completion of the proposed project, you are under a continuing obligation to immediately notify the governmental unit in the event that you subsequently determine that you will use a subcontractor on the proposed project.

4. What equipment do you have available to use for the proposed Project? Any equipment used by subcontractors may also be required to be listed by the governmental unit.

_____

_____

_____

_____

5. Have you into contracts or received offers for all materials which substantiate the prices used in preparing your proposal? If not, please explain the rationale used which corroborate the process listed.

_____

_____

_____

_____

SECTION III CONTRACTOR'S FINANCIAL STATEMENT

Attachment of Bidder's financial statement is mandatory. Any Bid submitted without said financial statement as required by statute shall thereby be rendered invalid. The financial statement provided hereunder to the governing body awarding the Contract must be specific enough in detail so that said governing body can make a proper determination of the Bidder's capability for completing the Project if awarded.

SECTION IV CONTRACTOR NON-COLLUSION AFFIDAVIT

The undersigned Bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this Bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporations has, have, or will receive directly or indirectly, any rebate, fee, gift, commission, or thing of value on account of such contract.

SECTION V OATH AND AFFIRMATION

I HEREBY AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE FACTS AND INFORMATION CONTAINED IN THE FOREGOING BID FOR PUBLIC WORKS ARE TRUE AND CORRECT

Dated at _____this _____ day of _____, 20

_____
(Name of Organization)

By

_____

_____
(Title of Person Signing)

ACKNOWLEDGEMENT

STATE OF _____)
) SS:
COUNTY OF _____)

Before me, a Notary Public, personally appeared the above-named

_____

Swore that the statements contained in the foregoing document are true and correct.

Subscribed and sworn to before me this _____ day of _____,

_____
(Title)

_____
Notary Public

My Commission Expires: _____

County of Residence: _____

END OF SECTION 00 31 00

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including amended General Conditions and other Division 1 Specification Sections, apply to work of this Section.

1.02 PURPOSE

A. The Bids for the Alternates described herein are required in order for the Owner to obtain information necessary for the proper consideration of the Project in its entirety.

1.03 ALTERNATES

A. Definitions: Alternates are defined as alternate products, materials, equipment, installations, or systems for the Work, which may, at Owner's option and under terms established by Instructions to Bidders, be selected and recorded in the Owner-Contractor Agreement to either supplement or displace corresponding basic requirements of Contract Documents. Alternates may or may not substantially change scope and general character of the Work; and must not be confused with "allowances", "unit prices", "change orders", "substitutions", and other similar provisions.

1.04 SCHEDULE OF ALTERNATES

A. ALTERNATE NO. 1: EAGLE ELEMENTARY SCHOOL PARK SHELTER
Base Bid: No new park shelter. Concrete slab/sidewalk area at the Park Shelter/Pavilion shall be part of base bid.
Alternate: Provide complete Park Shelter/Pavilion Structure with storage room as described within the Drawings and Specifications. This includes complete engineered and finished structure, foundations, and accessories. Electrical devices, receptacles, conduit, wiring and lighting within Park Shelter/Pavilion as indicated on the Electrical drawings shall also be included in the Alternate.

B. ALTERNATE NO. 2: FIRE ALARM BY SIEMENS
Base Bid: Provide material, labor and equipment for installation of complete noncoded addressable system.
Alternate: Complete Fire Alarm system per Specification Section 28 31 11 utilizing Siemens parts, equipment and programming.

C. ALTERNATE NO. 3: FIRE ALARM BY NOTIFIER
Base Bid: Provide material, labor and equipment for installation of complete noncoded addressable system.

Alternate: Complete Fire Alarm system per Specification Section 28 31 11 utilizing Notifier parts, equipment and programming.

D. ALTERNATE NO. 4: FIRE ALARM BY NATIONAL TIME AND SIGNAL CORPORATION
Base Bid: Provide material, labor and equipment for installation of complete noncoded addressable system.
Alternate: Complete Fire Alarm system per Specification Section 28 31 11 utilizing National Time and Signal Corporation parts, equipment and programming.

PART 2 - PRODUCTS, PART 3 - EXECUTION (Not Used)

END OF SECTION 01 23 00

A D D E N D U M N O. 1

Zionsville Community High School Stadium Locker Building Addition and Renovation

Zionsville Community Schools
Zionsville, Indiana

Project No. 223139.00

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Addendum No. 1, 15 items, 5 pages
Revised Project Manual Section: 10 14 23.16 – Interior Panel Signage
Revised Drawing Sheets: G1.0, A0.01, AD0.01 A1.00, A1.01, A1.02, A5.01, A6S.01, A7S.01, A8S.01, PD1A, PP1A, MD.01, M2.01, M3.01, M4.01, M5.01, M5.02, M5.03, M5.04, M6.01, E1.02, E2.01, E5.01, E5.02, E6.01, E6.02, E7.01, and E8.01

Date: February 14, 2024

I hereby certify that this Addendum was prepared by me or under my direct supervision and that I am a duly registered Architect/Engineer under the Laws of the State of Indiana.

FANNING/HOWEY ASSOCIATES, INC.
ARCHITECTS/ENGINEERS/CONSULTANTS

Paul A. Miller, License No. AR10800161
Expiration Date: 12/31/2025

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 1 to Drawings and Project Manual, dated January 22, 2024, for Zionsville Community Schools, 900 Mulberry Street, Zionsville, Indiana; as prepared by Fanning/Howey Associates, Inc., Indianapolis, Indiana. This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum.

Each bidder shall acknowledge receipt of this Addendum in his proposal or bid.

NOTE: Bidders are responsible for becoming familiar with every item of this Addendum. (This includes miscellaneous items at the very end of this Addendum.)

RE: ALL BIDDERS

ITEM NO. 1. PROJECT MANUAL, TABLE OF CONTENTS

A. Book 2, Page 00 01 10-2, DIVISION 10: Add Section 10 14 23.16 – Interior Panel Signage.

ITEM NO. 2. NEW PROJECT MANUAL SECTION(S)

A. New Project Manual Section 10 14 23.16 – Interior Panel Signage is included with and hereby made a part of this Addendum.

ITEM NO. 3. PROJECT MANUAL, SECTION 08 71 00 – DOOR HARDWARE SETS

A. Article 3.7, Door Hardware Sets: Revise Hardware Set No. 4.0 as follows:

Set: 4.0

Doors: A109A, A110A, B109A

2	Continuous Hinge	CFM_SLF-HD1 (Size as Required)		PE	087100
1	Self Latching Flush Bolt Set	2845 / 2945 (type as required)	US32D	RO	087100
1	Storeroom/Closet Lock	LC 8204 LNP	US26D	SA	087100
1	SFIC Mortise Cylinder Housing	Size and Cam as required	US32D	SA	087100
1	SFIC Core	SFIC Cylinder Core to be supplied under allowance		BE	
2	Surface Closer	TB 351 CPS (HW SPG STP Arm)	EN	SA	087100
2	Blade Stop Spacer Kit	581-1 or 2 (as required)	EN	SA	087100
2	Kick Plate	K1050 8" high X 2" LDW CSK BEV	US32D	RO	087100
1	Rain Guard	346C		PE	087100
1	Perimeter Gaskets	Perimeter Gaskets by Door/Frame Manufacturer		OT	

2	Sweep	3452AV	PE 087100
1	Threshold	2005AV ES14L	PE 087100
1	Door Position Switch	By Security Supplier	OT

Notes: * Provide Z Astragal from Door Manufacturer.
* Threshold to extend from Masonry to Masonry. Cope as Required.
* Weatherstrip supplied with aluminum frame & door.
* Coordinate all wiring & conduit with the electrical contractor.
* Door contacts monitor the position of the doors and reports status to the security system.

B. Article 3.7, Hardware Set No.12.0: Add Door No. A106A, A106B, B110A and B112A, to the list of doors.

C. Article 3.7, Hardware Set No.17.0: Delete Door No. A106A and A106B, from the list of doors.

D. Article 3.7, Hardware Set No. 23.0: Delete Door No. B110A and B112A, from the list of doors. Add Door No. B125B and B125C, to the list of doors. Revise Hardware Set No. 23.0 as follows:

Set: 23.0

Doors: B125B, B125C

1	Door Position Switch	By Security Supplier	OT

Notes: * Coordinate all wiring & conduit with the electrical contractor.
* Door contacts monitor the position of the doors and reports status to the security system.

E. Article 3.7, Hardware Set No.24.0: Delete Door No. B125B and B125C, from the list of doors.

ITEM NO. 4. PROJECT MANUAL, SECTION 09 21 16 – GYPSUM BOARD ASSEMBLIES

A. Add 2.1, A., 4., as follows:

"4. Abuse-Resistant/Mold-Resistant Gypsum Boards
1. Sheetrock Mold Tough AR; United States Gypsum Company
2. Hi-Abuse XP Wallboard; National Gypsum Co.
3. Extreme Abuse-Resistant with M2Tech; CertainTeed Gypsum, Inc.
4. M-Bloc Impact Resistant; American Gypsum
5. Den Armour Plus (Impact-Resistant); Georgia Pacific"

B. Add 2.6, D., as follows:

"D. Abuse-Resistant/Mold-Resistant Gypsum Boards (Level 1) (ARGB): Boards shall be 5/8 inch thick, complying with Type X or C fire resistance in accordance with ASTM C1396, and C1629, and for NFPA Class 1 Flame Spread, Smoke Development and Fuel Contribution under ASTM E84.
1. Surface Abrasion: ASTM C 1629, meets or exceeds Level 2 requirements.
2. Indentation: ASTM C 1629, meets or exceeds Level 1 requirements.
3. Soft-Body Impact: ASTM C 1629, meets or exceeds Level 1 requirements."

ITEM NO. 5. PROJECT MANUAL, SECTION 10 51 13 – METAL LOCKERS

A. Replace 2.4, D., 1., a., as follows:

"a. Provide unperforated sides at lockers with solid doors, corner units, end of run against walls and where finished or box end panel is provided."

B. Replace 2.4, P., 2., as follows:

"2. Boxed End Panels: Fabricated from 0.0528-inch thick, cold-rolled steel sheet."

C. Replace 2.5, H., as follows:

"H. Boxed End Panels: Fabricated from 0.0528-inch thick steel sheet. Fabricated with 1-inch wide edge dimension, and designed for concealing fasteners and holes at exposed ends of nonrecessed metal lockers; finished to match lockers."

D. Replace 3.2, C., 6., as follows:

"6. Attach boxed end panels with concealed fasteners only at perimeter to conceal exposed ends of nonrecessed metal lockers."

ITEM NO. 6. PROJECT MANUAL, SECTION 12 32 16 – MANUFACTURED PLASTIC-LAMINATE FACED (EDUCATIONAL) CASEWORK

A. Add 2.10, C., 5., as follows:

"5. Substrate: 1 – 1-1/8 inch exterior glue particleboard."

ITEM NO. 7. PROJECT MANUAL, SECTION 12 48 26.01 – ENTRANCE CARPET TILE

A. Delete 2.2, A., 1., in its entirety.

ITEM NO. 8. PROJECT MANUAL, SECTION 23 33 00 – AIR DUCT ACCESSORIES

A. Add 1.1, A., 10., as follows:

"10. Smoke Dampers."

B. Add Article 2.11 as follows:

"2.11 SMOKE DAMPERS

A. Manufacturers: Subject to compliance, provide products by one of the following:
   1. Air Balance Inc.; a division of Mestek, Inc.
   2. Cesco Products; a division of Mestek, Inc.
   3. Greenheck Fan Corporation.
   4. Nailor Industries Inc.
   5. PHL, Inc.
   6. Ruskin Company.

B. General Requirements: Label according to UL 555S by an NRTL.

C. Frame: Multiple-blade type; fabricated with roll-formed, 0.034-inch galvanized steel; with mitered and interlocking corners.

D. Blades: Roll-formed, horizontal, interlocking, 0.034-inch, galvanized steel. In place of interlocking blades, use full-length, 0.034-inch, galvanized steel connectors.

E. Leakage: Class II.

F. Rated pressure and velocity to exceed design airflow conditions.

G. Mounting Sleeve: Factory-installed, 0.052-inch, galvanized sheet steel; length to suit wall or floor application.

H. Damper Motors: Two-position action.

I. Comply with NEMA designation, temperature rating, service factor, enclosure type, and efficiency requirements for motors specified in Division 23 Section "Common Motor Requirements for HVAC Equipment."
   1. Motor Sizes: Minimum size as indicated. If not indicated, large enough so driven load will not require motor to operate in service factor range above 1.0.
   2. Controllers, Electrical Devices, and Wiring: Comply with requirements for electrical devices and connections specified in Division 26 Sections.
   3. Permanent-Split-Capacitor or Shaded-Pole Motors: with oil-immersed and sealed gear trains.
   4. Spring-Return Motors: Equip with an integral spiral-spring mechanism where indicated. Enclose entire spring mechanism in a removable housing designed for service or adjustments. Size for running torque rating of 150 in. x lbf and breakaway torque rating of 150 in. lbf.
   5. Outdoor Motors and Motors in Outdoor-Air Intakes: Equip with O-ring gaskets designed to make motors weatherproof. Equip motors with internal heaters to permit normal operation to minus 40oF.
   6. Nonspring-Return Motors: For dampers larger than 25 sq. ft., size motor for running torque rating of 150 in. x lbf and breakaway torque rating of 300 in. x lbf.
   7. Electrical Connection: 115 V, single phase, 60 Hz.”

ITEM NO. 9. PROJECT MANUAL, SECTION 23 37 13 – DIFFUSERS, REGISTERS, AND GRILLES

A. Article 2.3, G: Change “TMSA” to “OMNI” within paragraph.

ITEM NO. 10. PROJECT MANUAL, SECTION 28 31 11 – ADDRESSABLE FIRE-ALARM SYSTEM

A. Change section 2.1, A., to read as:

“A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. Siemens Industry Inc, Building Technologies Division.
   2. NOTIFIER; part of the Honeywell's Fire Systems Group.
   3. National Time & Signal Corporation”

B. Change sections 2.10, A., B., and C., to read as follows:

“A. Digital alarm communicator transmitter shall be acceptable to the remote central station and shall comply with UL 632 and be listed and labeled by an NRTL, and comply with NFPA 72, 2016 edition.

B. Dual-Path Communicator: Primary transmission channel for Internet Protocol (IP) communication connection and Secondary transmission channel for wireless cellular communication, and shall comply with UL 864 and be listed and labeled by an NRTL, and comply with NFPA 72, 2016 edition. Wireless communications protocol shall be compatible with the Owner's wireless service provider communications protocol. A separate, roof mounted antenna for wireless cellular communication shall be provided as required if signal reception from internal antenna on communicator is not sufficient.

C. Functional Performance: Communicator units shall receive an alarm, supervisory, or trouble signal from fire-alarm control panel and automatically dial a preset number via for a remote central station via dedicated Internet Protocol (IP) communication. A secondary transmission channel via wireless cellular communicator shall also be employed. When contact is made with central station, signals shall be transmitted. If service on either channel is interrupted for longer than 45 seconds, transmitter shall initiate a local trouble signal and transmit the signal indicating loss of channel to the remote alarm receiving station over the remaining channel within 4 minutes. Transmitter shall automatically report communication service restoration to the central station. Local functions and display at the digital alarm communicator transmitter shall include the following:
   1. Verification that both transmission channels are available.
   2. Programming device.
   3. LED display.
   4. Manual test report function and manual transmission clear indication.
   5. Communications failure with the central station or fire-alarm control panel."

ITEM NO. 11. REVISED DRAWING SHEETS

A. Drawing Sheets: G1.0, A0.01, AD0.01 A1.00, A1.01, A1.02, A5.01, A6S.01, A7S.01, A8S.01, PD1A, PP1A, MD.01, M2.01, M3.01, M4.01, M5.01, M5.02, M5.03, M5.04, M6.01, E1.02, E2.01, E5.01, E5.02, E6.01, E6.02, E7.01, and E8.01 have been revised, dated 02/14/24, and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

ITEM NO. 12. DRAWING SHEET NO. A1.01

A. Revise all "W4A" wall tags to read "W4", typical.

ITEM NO. 13. DRAWING SHEET NO. A6.01

A. Detail 5-A6.01: Remove "centered on wall" from Glazed Aluminum Storefront System note. Refer to dimension, as shown.

ITEM NO. 14. DRAWING SHEET NO. A7.01

A. Equipment Notes: Revise Keynote 11 to read as follows:

"11. EXISTING PROJECTOR AND PROJECTION SCREEN TO BE REINSTALLED BY OWNER IN EXISTING LOCATIONS."

ITEM NO. 15. DRAWING SHEET NO. A7.02

A. Signage General Notes: Revise bullet point 4 to read as follows:

- ALL EXTERIOR SIGNS TO BE ETCHED ZINC MATERIAL, UNLESS NOTED OTHERWISE. INTERIOR SIGNS TO BE ACRYLIC, UNLESS NOTED OTHERWISE.

END OF ADDENDUM

SECTION 10 14 23.16 – INTERIOR PANEL SIGNAGE

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Panel signs, including room-identification signs that are directly attached to building.
      a. Acrylic
   2. Field-applied, vinyl-character signs
   3. Directories
      a. Evacuation plan holders

B. Related Sections include the following:
   1. Division 22 Section "Identification of Plumbing Piping and Equipment" for labels, tags, and nameplates for plumbing systems and equipment.
   2. Division 23 Section "Identification of HVAC Piping and Equipment" for labels, tags, and nameplates for HVAC systems and equipment.
   3. Division 26 Section "Identification for Electrical Systems" for labels, tags, and nameplates for electrical equipment.
   4. Division 26 Section "Interior Lighting" for illuminated Exit signs.

1.2 DEFINITIONS

A. Accessibility Standard: U.S. Department of Justice's "2010 ADA Standards for Accessible Design."

1.3 COORDINATION

A. Coordinate placement of anchorage devices with templates for installing signs.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: Show fabrication and installation details for signs.
   1. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.
   2. Provide message list, typestyles, graphic elements, including tactile characters and Braille, and layout for each sign.

C. Samples for Initial Selection: Manufacturer's color charts consisting of actual units or sections of units showing the full range of colors available for the following:

1.5 CLOSEOUT SUBMITTALS:

A. General: Closeout Submittals are to be submitted with O and M Manuals only. Do not submit with other ACTION and INFORMATIONAL Submittals:
   1. Maintenance Data: For signs to include in maintenance manuals.
   2. Warranty: Special warranty specified in this Section.

1.6 QUALITY ASSURANCE

A. Regulatory Requirements: Signage shall be provided to conform to the USDOJ's "2010 ADA Standards for Accessible Design", ICC/ANSI A117.1, and State and Local Regulations. These requirements supersede Technical Specifications in this Section.

1.7 FIELD CONDITIONS

A. Field Measurements: Verify locations of anchorage devices embedded in permanent construction by field measurements before fabrication and indicate measurements on Shop Drawings.

1.8 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Deterioration of finishes beyond normal weathering.
      b. Deterioration of embedded graphic image, colors, and sign lamination.
   2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Manufacturers: Subject to compliance with requirements, provide signage by one of the manufacturers specified.
   1. Panel Signs
      a. Acrylic
         1) ASI Sign Systems, Inc.
         2) Advance Corporation
         3) 2/90 Sign Systems
         4) ACS Sign Systems
         5) Forty-Nine Degrees
         6) Interior Graphic Systems
         7) ACE Sign Systems
         8) ASE, Inc.
         9) Best Sign Systems
         10) Contemporary Plastics Inc.
         11) Essential Architectural Signs, Inc.
         12) Jarob
         13) Roban Signs
         14) Sign Solutions
         15) Appenx Architectural Signage
         16) Ellet Sign Company
         17) Sign PDQ
         18) REM Graphics and Signs LLC; Raster Braille Signage
         19) Identity Group Interior Sign Solution
         20) ISF Signs (Indianapolis)
         21) Landmark Sign

B. Products of other manufacturers will be considered for acceptance provided they equal or exceed the material requirements and functional qualities of the specified product. The "Substitution Request Form" Sample sign, and complete technical data for evaluation must accompany requests for A/E's approval. All materials for evaluation must be received by the Project Manager and Specification Department at least 10 days prior to bid due date. Additional approved manufacturers will be issued by Addendum.

2.2 PERFORMANCE REQUIREMENTS

A. Accessibility Standard: Comply with applicable provisions in the USDOJ's "2010 ADA Standards for Accessible Design," ICC A117.1, and requirements of authorities with jurisdiction for signs.

2.3 MATERIALS

A. Acrylic Sheet: ASTM D 4802, Category A-1 (cell-cast sheet), Type UVF (UV filtering).

B. Vinyl Film: UV-resistant vinyl film of nominal thickness indicated, with pressure-sensitive, permanent adhesive on back; die cut to form characters or images as indicated and suitable for exterior applications.

C. Paints and Coatings for Sheet Materials: Inks, dyes, and paints that are recommended by manufacturer for optimum adherence to surface and are UV and water resistant for colors and exposure indicated.

2.4 PANEL SIGNS **(**INTERIOR SIGNAGE**)**

A. Signage, General:
1. Graphic Process: Comply with ADA Accessibility Guidelines and ICC/ANSI A117.1. All letters, numbers, and/or symbols shall contrast with background either light characters on a dark background or dark characters on a light background. Characters and background shall have matte finish.
   a. Graphic Content and Style: Provide sign copy that complies with requirements indicated for size, style, spacing, content, mounting height and location, material, finishes, and color of signage.
2. Characters: Letters and numbers shall have width to height ratio between 3:5 and 1:1 and a stroke width to height ratio between 1:5 and 1:10. Letters and numbers shall be raised 1/32-inch, uppercase, sans serif or simple sans serif type and shall be accompanied with Grade 2 Braille. Raised characters shall be 5/8-inch high minimum and 2 inches high maximum. Equivalent written description must be placed directly below pictogram. Pictogram can be any size within a minimum field of 6 inches in height. Produce precisely formed characters with square cut edges free from burrs and cut marks.

B. Material:
1. Acrylic Panel, fabricated in accordance with one of the following methods:
   a. Acrylic signs
      1) Acrylic sheet shall be CNC cut to specifications with square or radius corners, and/or custom shapes, 0.080 inch minimum.
      2) 1/32 inch modified acrylic plate shall be adhered to the acrylic plate with a high bond chemical adhesive and the text and/or symbols shall be CNC cut to specifications.
         a) Option: One layer of 1/4 inch acrylic with .062 inch backer when needed.
      3) Corresponding text and/or symbols shall be CNC cut from 1/16 inch modified acrylic embedded 1/32 inch and bond with chemical adhesive to the acrylic plate.
      4) Domed grade 2 Braille shall be embedded in the surface.
      5) Comply with requirements indicated for material, color, finish, design, shape, size, and details of construction.
   b. Double panel (window) sign with changeable insert(s).
      1) Tactile appliqué: Opaque, single ply, modified acrylic sheet not less than 0.032 inch in thickness.
      2) Braille: Braille dots shall consist of 0.0625 optically clear UV stable acrylic spheres.
      3) Face laminate: Clear, non-glare, cast acrylic sheet not less than 0.080 inch in thickness.
      4) Backing sheet: Expanded PVC sign board or acrylic sheet not less than 0.125 inch in thickness.
      5) Changeable insert: Provide one of the following:
         a) Paper inserts by Owner.

C. Unframed Panel Signs: Fabricate signs with edges mechanically and smoothly finished to comply with the following requirements:
   1. Edge Condition: Eased, unless otherwise noted.
   2. Corner Condition: Rounded to a 3/8 inch radius, unless otherwise noted.
   3. Backer Sheet: Include a solid backer, 1/8 inch thick of acrylic sheet for all signs occurring on glass sidelights. Color shall match sign background color.

2.5 FIELD-APPLIED, VINYL-CHARACTER SIGNS

A. Field-Applied, Vinyl-Character Sign: Prespaced characters die cut from 3 to 3.5 mil thick, weather-resistant vinyl film with release liner on the back and carrier film on the front for on-site alignment and application.
   1. Manufacturers: Subject to compliance with requirements provide one of the following:
      a. Allen Markings
      b. APCO Graphics, Inc.
      c. Mohawk Sign Systems
      d. Seton Identification Products
   2. Size: As indicated on Drawings.
   3. Substrate: As indicated on Drawings.
   4. Text and Font: As indicated on Drawings.

2.6 DIRECTORIES

A. Evacuation Plan Holders: Provide one of the following in compliance with the authorities with jurisdiction:
   1. Acrylic Wall Mounted Sign Holder: Holds 8-1/2 inch by 11 inch signs. Acylic frame has a “foldover” design allowing insert of signs from the top for easy changing. The wall mounted frame shall have precut holes for hanging.
      a. Manufacteurs: Subject to compliance with requirements provide one of the following:
         1) Acrylic Wall mounted Sign Holder: Azar Displays
         2) Acrylic Sign Holder; Displays2Go
         3) Wallmount Sign Holder; Allen Display

2.7 ACCESSORIES

A. Fasteners and Anchors: Manufacturer’s standard as required for secure anchorage of signage, noncorrosive and compatible with each material joined, complying with the following:
   1. Use concealed fasteners and anchors, unless indicated to be exposed.
   2. Sign Mounting Fasteners
      a. Concealed Studs: Concealed (blind), threaded studs welded or brazed to back of sign material or screwed into back of sign assembly, unless otherwise indicated.
   3. Inserts: Furnish inserts to be set by other trades into concrete or masonry work.

B. Two-Face Tape: Use double-sided vinyl tape or silicone adhesive fabricated from materials that are not corrosive to sign material and mounting surface.

C. Adhesive: As recommended by sign manufacturer.

2.8 FABRICATION

A. General: Provide manufacturer's standard signs of configurations indicated.
   1. Welded Connections: Comply with AWS standards for recommended practices in shop welding. Provide welds behind finished surfaces without distortion or discoloration of exposed side. Clean exposed welded surfaces of welding flux and dress exposed and contact surfaces.
   2. Mill joints to tight, hairline fit. Form joints exposed to weather to exclude water penetration.

3. Preassemble signs in the shop to greatest extent possible. Disassemble signs only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation, in location not exposed to view after final assembly.
4. Conceal fasteners if possible; otherwise, locate fasteners where they will be inconspicuous.
5. Internally brace signs for stability and for securing fasteners.
6. Provide rebates, lugs, and brackets necessary to assemble components and to attach to existing work. Drill and tap for required fasteners. Use concealed fasteners where possible; use exposed fasteners that match sign finish.

B. Subsurface-Applied Graphics: Apply graphics to back face of clear faced-sheet material to produce precisely formed image. Image shall be free of rough edges.

C. Shop and Subsurface-Applied Vinyl: Align vinyl film in final position and apply to surface. Firmly press film from the middle outward to obtain good bond without blisters or fish mouths.

2.9 FINISHES, GENERAL

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.10 ACRYLIC SHEET FINISHES

A. Colored Coatings for Acrylic Sheet: For copy and background colors, provide colored coatings, including inks, dyes, and paints, that are recommended by acrylic manufacturers for optimum adherence to acrylic surface and that are UV and water resistant for five years for application intended.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.

B. Verify that sign-support surfaces are within tolerances to accommodate signs without gaps or irregularities between backs of signs and support surfaces, unless otherwise indicated.

C. Verify that anchor inserts are correctly sized and located to accommodate signs.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. General: Install signs and accessories, using mounting methods of types described and complying with manufacturer's written instructions.
1. Install signs level, plumb, and at heights indicated, with sign surfaces free of distortion and other defects in appearance.

2. Install signs on walls adjacent to latch side of door where applicable. Where not indicated or possible, such as double doors, install signs on nearest adjacent walls. Locate to allow approach within 3 inches of sign without encountering protruding objects or standing within swing of door.
3. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.
4. Install signs so they do not protrude or obstruct according to the accessibility standard.

B. Accessibility Signs: Installation height and location shall comply with applicable provisions in the U.S. Architectural and Transportations Barriers Compliance Board's ADA-ABA Accessibility Guidelines for Buildings and Facilities and ICC A117.1 for signs.
1. Height above finish floor or ground: Tactile characters on signs shall be located 48 inches minimum above the "finish" floor or ground surface, measured from the base line of the lowest tactile character and 60 inches maximum above the finish floor or ground surface, measured from the baseline of the height tactile character.
   a. Exception: Tactile characters for elevator car controls shall not be required to comply.
2. Location: Where a tactile sign is provided at a door, the sign shall be located alongside the door latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches minimum by 18 inches minimum, centered on tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.
   a. Exception: Signs with tactile characters shall be permitted on the push side of doors with closures and without hold-open devices.

C. Wall-Mounted Panel Signs: Comply with sign manufacturer's written instructions except where more stringent requirements apply.
1. Silicone-Adhesive Mounting: Attach signs to irregular, porous, or vinyl-covered surfaces. Use double-sided tape when recommended by sign manufacturer to hold sign in place until adhesive has fully cured. Apply tape strips symmetrically to back of sign and of suitable quantity to support weight of sign without slippage. Keep strips away from edges to prevent visibility at sign edges. Place sign in position, and push to engage tape adhesive.
2. Adhesive: Clean bond-breaking materials from substrate surface and remove loose debris. Apply linear beads or spots of adhesive symmetrically to back of sign and of suitable quantity to support weight of sign after cure without slippage. Keep adhesive away from edges to prevent adhesive extrusion as sign is applied and to prevent visibility of cured adhesive at sign edges. Place sign in position, and push to engage adhesive. Temporarily support sign in position until adhesive fully sets.
3. Shim Plate Mounting: Provide 1/8 inch thick, concealed aluminum shim plates with predrilled and countersunk holes, at locations indicated, and where other mounting methods are not practicable. Attach plate with fasteners and anchors suitable for secure attachment to substrate. Attach panel signs to plate using method specified above.
4. Signs Mounted on Glass: Provide matching opaque plate on opposite side of glass to conceal mounting materials.

D. Field-Applied, Vinyl-Character Signs: Clean and dry substrate. Align sign characters in final position before removing release liner. Remove release liner in stages, and apply and firmly press characters into final position. Press from the middle outward to obtain good bond without blisters or fish mouths. Remove carrier film without disturbing applied vinyl film.

3.3 ADJUSTING AND CLEANING

A. Remove and replace damaged or deformed signs and signs that do not comply with specified requirements. Replace signs with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.

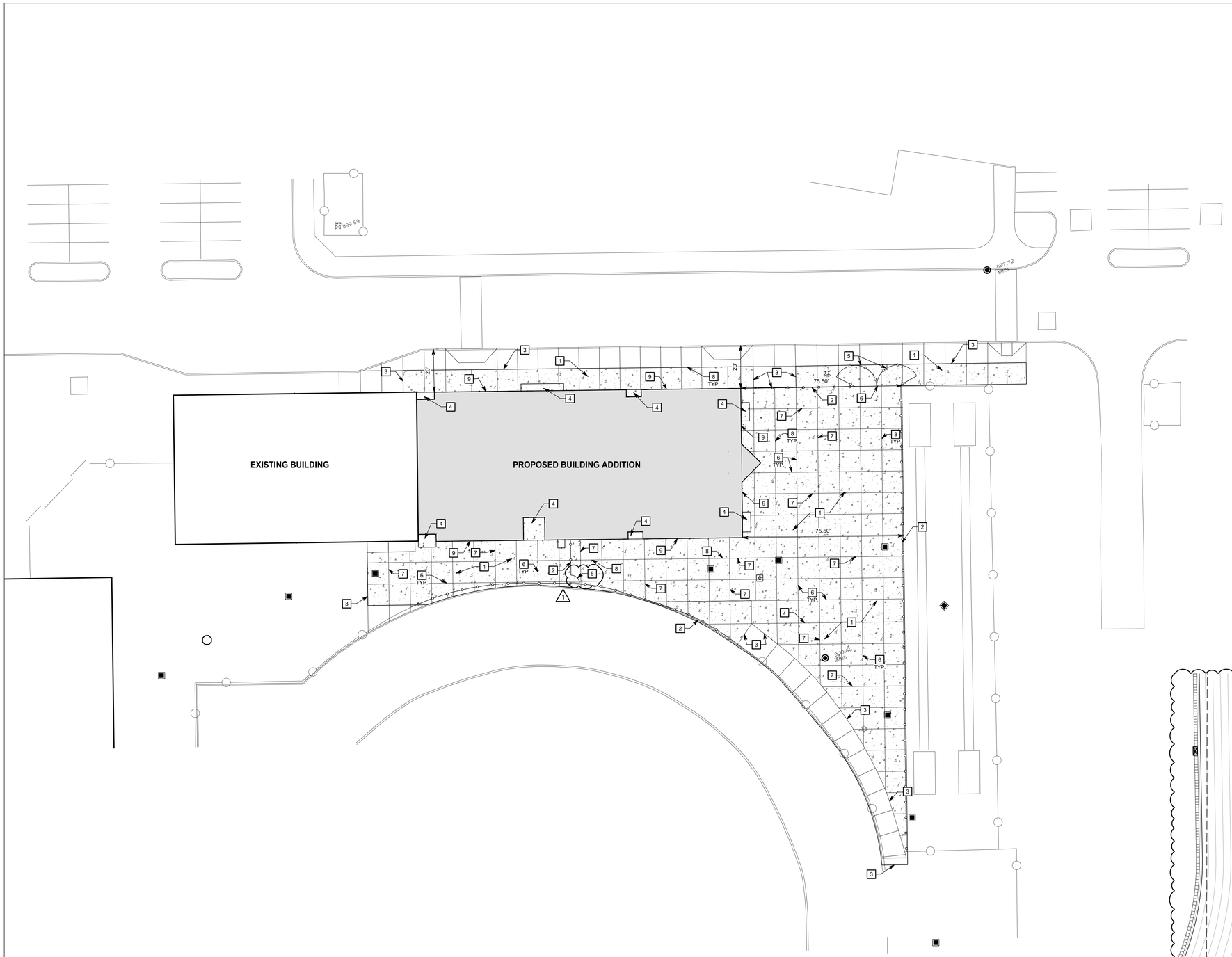
B. Remove temporary protective coverings and strippable films as signs are installed.

C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

END OF SECTION 10 14 00

FANNING HOWEY

PRE-BID REQUEST FOR INTERPRETATION/CLARIFICATION LOG					
223139.00	1	2/12/24	Substitution Request for Thermoplastic Membrane Roofing; proposed substitution – Mule-Hide Products, .060 PVC roof system, including all components and accessories.	07 54 00	Substitution Not Approved



NORTH

20 0 20 40 60

GENERAL NOTES

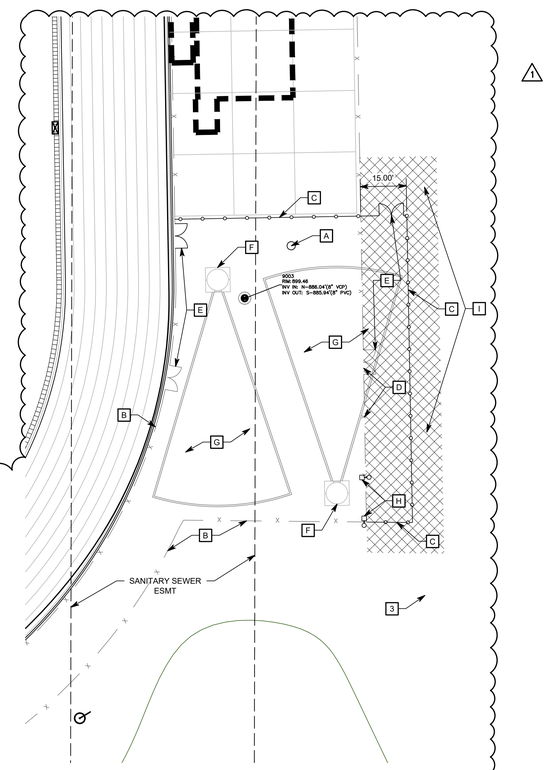
1. SEE DRAWING G.01 FOR GENERAL NOTES AND ADDITIONAL LEGEND.
2. TOPOGRAPHIC CONDITIONS AND EXISTING UTILITIES SHOWN WERE PROVIDED BY ROGER WARD ENGINEERING. THE ENGINEER MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
3. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE PROJECT AREA INCLUDING UNDERGROUND UTILITY CONDITIONS, LOCATION AND DEPTH PRIOR TO ANY OTHER SITE CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER.

☐ SITE KEYNOTES

1. CONCRETE SIDEWALK - SEE DETAIL A/G4.0
2. CHAIN LINK FENCE- MATCH EXISTING HEIGHT AND MATERIAL - SEE DETAIL F/G4.0
3. PROPOSED CONCRETE TO EXISTING CONCRETE CONNECTION- SEE DETAIL C/G4.0
4. CONCRETE STOOP (SEE STRUCTURAL DRAWINGS)
5. CHAIN LINK FENCE GATES
6. CONTROL JOINT - SEE DETAIL B/G4.0
7. EXPANSION JOINT - SEE DETAIL B/G4.0
8. LONGITUDINAL JOINT - SEE DETAIL B/G4.0
9. ISOLATION JOINT - SEE DETAIL G/G4.0

PROPOSED SITE LEGEND

- BUILDING
- CONCRETE SIDEWALK
- FENCE



☐ SHOT PUT RELOCATION KEYNOTES

A. EXISTING FIELD LIGHTING TO REMAIN (PROTECT DURING CONSTRUCTION)
B. EXISTING CHAIN LINK FENCE TO REMAIN (PROTECT DURING CONSTRUCTION)
C. CHAIN LINK FENCE- MATCH EXISTING HEIGHT AND MATERIAL - SEE DETAIL F/G4.0
D. REMOVE EXISTING CHAIN LINK FENCE/GATES (SALVAGE FOR POTENTIAL RE-USE)
E. RELOCATE EXISTING CHAIN LINK FENCE GATES
F. SHOT PUT THROWING CIRCLE AND TOE BOARD (LAY OUT PER IHSAA REGULATIONS)
G. SHOT PUT SAND PIT (LAY OUT PER IHSAA REGULATIONS)
H. RELOCATE EXISTING AREA LIGHT
I. RE-GRADE/FILL AREA BETWEEN EXISTING AND NEW FENCES (HATCHED AREA) TO PROVIDE A CONSISTENT SLOPE FOR ENTIRE SHOT PUT AREA. PROVIDE SMOOTH TRANSITION TO EXISTING GRADE OUTSIDE NEW FENCE.

SHOT PUT RELOCATION PLAN

SCALE: 1" = 20'

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CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

Drawing Path: P:\2023\400\470\CAD\Civil\Active\4 - 2023-470 Site Plan.dwg
Plotted By: dschnur Time of Plot: 2/13/24 - 5:17pm Last Edited: 2/13/24 - 5:15pm

ZIONSVILLE COMMUNITY HIGH SCHOOL FOOTBALL LOCKER BUILDING ADDITION AND RENOVATION

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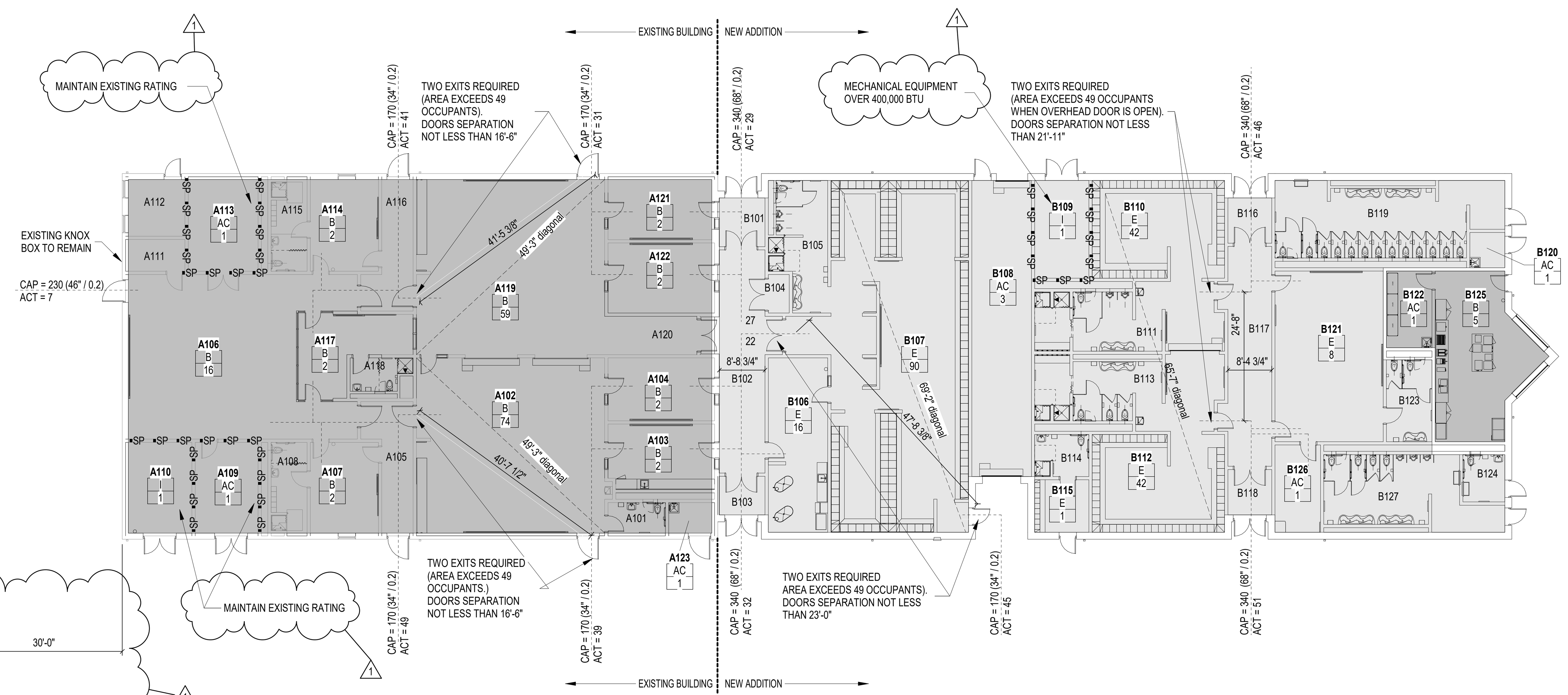
MARK S. FISH REGISTERED No. 60870374 STATE OF INDIANA PROFESSIONAL ENGINEER

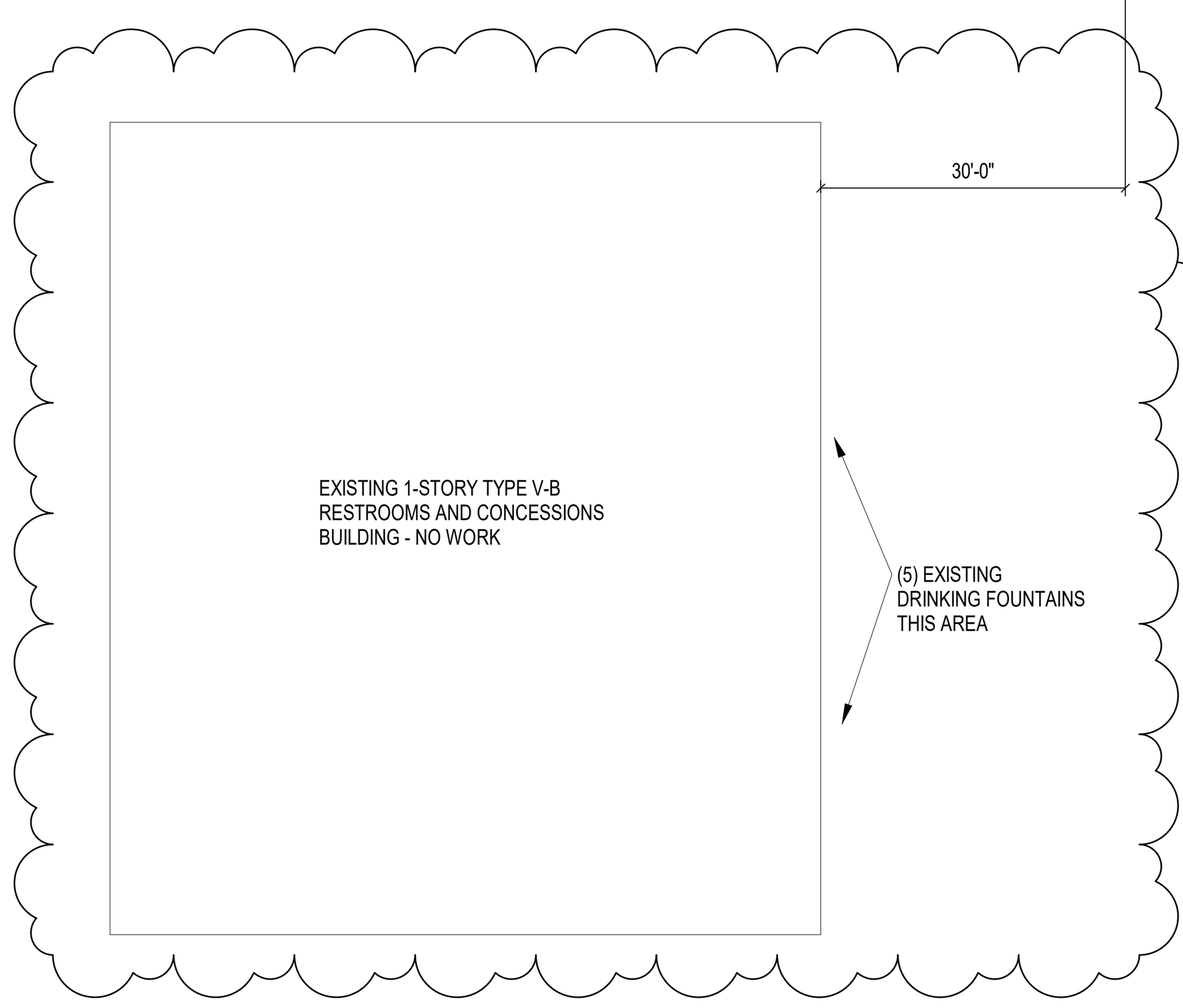
PROJECT MANAGER:
DRAWN BY:
PROJECT NUMBER:
PROJECT ISSUE DATE:

REV. NO.	DESCRIPTION	DATE
0	100% CD's	01/22/2024
1	ADDENDUM #1	02/14/2024

SITE LAYOUT PLAN

G1.0





FIRST FLOOR - CODE PLAN

SCALE: 1/16" = 1'-0"

CODE PLAN LEGEND

EXTERIOR WALLS — TO HAVE UNPROTECTED OR PROTECTED OPENINGS LIMITED IN AREA BY TABLE 705.8

INTERIOR WALLS

▪SP ▪SP ▪SP ▪SP — INCIDENTAL OCCUPANCY PARTITION WITH CONSTRUCTION CAPABLE OF RESISTING PASSAGE OF SMOKE AND HAS SELF-CLOSING AND/OR AUTOMATIC CLOSING DOORS WITH SMOKE DETECTORS, 509.4.2

MISCELLANEOUS

- FIRE EXTINGUISHER
- A.E.D.
- 8,203 SF. - GROUP B OCCUPANCY
- 9,198 SF. - GROUP E OCCUPANCY

NOTE:
AUTOMATIC SPRINKLER SYSTEM THROUGHOUT EXISTING BUILDING IS TO BE EXTENDED THROUGHOUT NEW ADDITION.
PER 718.4.3 (EXCEPTION) ATTIC DRAFTSTOPPING IS NOT REQUIRED.

BUILDING CODE INFORMATION

1. BUILDING DESCRIPTION: MAJOR RENOVATION AND ADDITION TO EXISTING 2008 LOCKER ROOM BUILDING OCC TYPE B / CONSTRUC TYPE V-B

2. APPLICABLE CODE:
   2012 INTERNATIONAL BUILDING CODE - INDIANA BUILDING CODE, 2014 EDITION (675 IAC 13-2.6)
   2012 INTERNATIONAL FIRE CODE - INDIANA FIRE CODE, 2014 EDITION (675 IAC 22-2)
   2012 INTERNATIONAL MECHANICAL CODE - INDIANA MECHANICAL CODE, 2014 EDITION (675 IAC 18-1.6)
   2012 INTERNATIONAL PLUMBING CODE - INDIANA PLUMBING CODE, 2012 EDITION (675 IAC 16-1.4)
   2012 INTERNATIONAL ELECTRICAL CODE - INDIANA ELECTRICAL CODE, 2009 EDITION [NFPA 70-2008] (675 IAC 17-1.8)
   INDIANA ENERGY CONSERVATION CODE 2010 [ASHRAE 90.1, 2007 AMENDED] (672 IAC 19-4)
   2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

3. BUILDING AREA AND HEIGHT

   A. OCCUPANCY/USE GROUP: NON-SEPARATED OCCUPANCIES 508.3 BUSINESS, GROUP B EDUCATIONAL, GROUP E (302.1)

   B. AREA LIMITATION (MOST RESTRICTIVE): TABLE 503
   ALLOWABLE AREA (GROUP E) 9,500 SF
   ACTUAL AREA (GROUP E) *9,198 SF*
   ALLOWABLE AREA (GROUP B) 9,000 SF
   ACTUAL AREA (GROUP B) *8,203 SF*
   TOTAL ACTUAL SF 17,401 SF

   C. HEIGHT LIMITATION (MOST RESTRICTIVE): 1 STORY, 40'-0" (TABLE 503)
   1. HEIGHT MODIFICATIONS: 2 STORY, 60'-0" (504.2)
   2. ACTUAL HEIGHT: 1 STORY, 23'-8"

4. MIXED USE AND OCCUPANCY SECTION 508.3:
   OCCUPACY CLASSIFICATION
   INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH 302.1
   ALLOWABLE BUILDING AREA AND HEIGHT
   MOST RESTRICTIVE FOR EACH OCCUPANCY IN ACCORDANCE WITH 503.1

   INCIDENTAL USE AREAS SECTION 509
   CLASSIFIED ACCORDING TO OCCUPANCY WHERE LOCATED
   NOT MORE THAN 10% OF BUILDING AREA WHERE LOCATED

   ACCESSORY USE AREAS INDIANA BUILDING CODE SECTION 508.3.1.

   ACCESSORY OCCUPANCIES ARE THOSE OCCUPANCIES SUBSIDIARY TO THE MAIN OCCUPANCY OF THE BUILDING OR PORTION THEREOF. AGGREGATE ACCESSORY OCCUPANCIES SHALL NOT OCCUPY MORE THAN 10% OF THE AREA OF THE STORY IN TABLE 503 WITHOUT HEIGHT AND AREA INCREASES IN ACCORDANCE WITH SECTIONS 504 AND 506 FOR SUCH ACCESSORY OCCUPANCIES (2012 INTERNATIONAL BUILDING CODE)

5. TYPE OF CONSTRUCTION INDIANA BUILDING CODE CHAPTER 6 (SEE TABLE)

   TYPE V-B

   FIRE SEPARATION DISTANCES INDIANA BUILDING CODE TABLE 602:

   REFER TO THE SITE PLAN DRAWINGS FOR LOCATION OF BUILDING(S) ON SITE; DISTANCES TO CLOSEST INTERIOR LOT LINES; TO THE CENTER OF A STREET, ALLEY OR PUBLIC WAY; OR TO AN IMAGINARY LINE BETWEEN TWO BUILDINGS ON THE SAME LOT.

6. FIRE RESISTANCE RATED CONSTRUCTION INDIANA BUILDING CODE CHAPTER 7:

   REFER TO THE CODE PLANS FOR MAXIMUM AREAS OF EXTERIOR OPENINGS BASED ON THE FIRE SEPARATION DISTANCES.

   PENETRATIONS THROUGH FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE PROVIDED WITH FIRESTOPPING PER PROJECT MANUAL.

   CEILING AND FLOOR OPENINGS THROUGH NON-FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE PROVIDED WITH FIREBLOCKING PER PROJECT MANUAL.

7. INTERIOR FINISHES TO COMPLY WITH INDIANA BUILDING CODE CHAPTER 8

8. FIRE PROTECTION SYSTEMS INDIANA BUILDING CODE CHAPTER 9:

   THE ENTIRE BUILDING SHALL BE PROVIDED WITH AN AUTOMATIC SPRINKLER SYSTEM COMPLYING WITH 903.3.1.1 REFER TO FIRE PROTECTION DRAWINGS.

9. MEANS OF EGRESS INDIANA BUILDING CODE CHAPTER 10:

   THE MEANS OF EGRESS REQUIREMENTS SHALL BE DETERMINED BY THE ACTUAL OR COMPUTED NUMBER OF OCCUPANTS WHICHEVER IS THE LARGEST NUMBER. REFER TO THE CODE PLANS FOR ROOM OCCUPANT LOADS. AREAS OR ROOMS WITH 50 OR MORE OCCUPANTS SHALL BE PROVIDED WITH TWO OR MORE MEANS OF EGRESS; 500 OR MORE OCCUPANTS SHALL BE PROVIDED WITH THREE OR MORE MEANS OF EGRESS; AND 1000 OR MORE OCCUPANTS SHALL BE PROVIDED WITH FOUR OR MORE MEANS OF EGRESS.

10. STRUCTURAL DESIGN LOADS:

    REFER TO STRUCTURAL DRAWINGS FOR CODE REQUIREMENTS

BUILDING DESIGNED FOR: 382 STUDENTS AND 18 STAFF

XXX — ROOM NUMBER
E — OCCUPANCY CLASSIFICATION - REFER TO KEY
45 — CALCULATED MAXIMUM OCCUPANT LOAD

ROOM LEGEND - UNIT A

ROOM NO.	ROOM NAME	AREA (SF)
A101	TOILET	64 SF
A102	TEAM ROOM	1212 SF
A103	SMALL TEAM ROOM / HOSPITALITY	252 SF
A104	SMALL TEAM ROOM	245 SF
A105	ENTRY	180 SF
A106	TEAM ROOM	1184 SF
A107	COACH	226 SF
A108	COACH RESTROOM	116 SF
A109	STORAGE	209 SF
A110	MECHANICAL	212 SF
A111	FIRE PROTECTION	66 SF
A112	CUSTODIAL / STORAGE	118 SF
A113	STORAGE	234 SF
A114	COACH	229 SF
A115	COACH RESTROOM	118 SF
A116	ENTRY	179 SF
A117	COACH	256 SF
A118	COACH RESTROOM	67 SF
A119	TEAM ROOM	1206 SF
A120	CORRIDOR	130 SF
A121	SMALL TEAM ROOM	229 SF
A122	SMALL TEAM ROOM	273 SF
A123	CUSTODIAL	48 SF

ROOM LEGEND - UNIT B

ROOM NO.	ROOM NAME	AREA (SF)
B101	VESTIBULE	82 SF
B102	CORRIDOR	424 SF
B103	VESTIBULE	65 SF
B104	IDF	29 SF
B105	SHOWERS / TOILETS	234 SF
B106	TRAINING ROOM	377 SF
B107	LOCKER ROOM	1353 SF
B108	STORAGE	646 SF
B109	MECHANICAL	194 SF
B110	LOCKER ROOM	613 SF
B111	SHOWERS / TOILETS	272 SF
B112	LOCKER ROOM	628 SF
B113	SHOWERS / TOILETS	281 SF
B114	OFFICIALS RESTROOM	82 SF
B115	OFFICIALS LOCKER	104 SF
B116	VESTIBULE	73 SF
B117	CORRIDOR	374 SF
B118	VESTIBULE	73 SF
B119	WOMEN'S RESTROOM	574 SF
B120	CUSTODIAL	45 SF
B121	COACHES OFFICE	676 SF
B122	STORAGE	128 SF
B123	COACHES RR	136 SF
B124	FAMILY RESTROOM	73 SF
B125	CONCESSIONS	507 SF
B126	STORAGE	145 SF
B127	MEN'S RESTROOM	396 SF

OCCUPANCY CLASSIFICATION - KEY

Class Abbreviation	Classification	Area Per Occupant	Occupancy Gross or Net
AC	AC - Accessory Storage Areas, Mechanical Equipment Rooms	300 SF	Gross
B	B - Business Areas	150 SF	Gross
E	E - Educational	20 SF	Net
I	I - Incidental Use - Furnace Room Over 400,000 Btu	300 SF	Gross

PLUMBING FIXTURE COUNTS

USER GROUP	NUMBER OF USERS	USER PER GENDER	WATER CLOSETS		LAVATORIES		DRINKING FTNS.		SERVICE SINKS	
			REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED
EDUCATIONAL (E)	[317]	[211] M.	1/50 = 5	4 W.C. 4 URNL.	1/50 = 5	[7]	1/100 = 3	3	1	1
		[106] F.	1/50 = 3	3 W.C.	1/50 = 3	[3]				
OFFICE (B)	[24]	[12] M.	1/25 = 1	4 W.C.	1/40 = 1	[4]	1/1000 = 1	1	1	1
		[12] F.	1/25 = 1	3 W.C.	1/40= 1	[3]				
*ASSEMBLY (A5) BLEACHERS	996	[498] M.	1/75 = 7	4 W.C. 3 URNL.	1/150= 4	[6]	1/1000 = 1	1**	1	1
		498] F.	1/40 = 13	13 W.C.	1/150 = 4	[6]				

BUILDING DESIGNED FOR 374 STUDENTS AND 18 STAFF

FAMILITY TOILET ROOM/UNISEX:
ASSEMBLY AREAS - 1 REQUIRED, 1 PROVIDED

* RESTROOMS FOR ADJACENT 996-SEAT CAPACITY VISITORS SPECTATOR OUTDOOR BLEACHERS

** DRINKING FOUNTAINS PROVIDED AT EXISTING ADJACENT CONCESSIONS BUILDING

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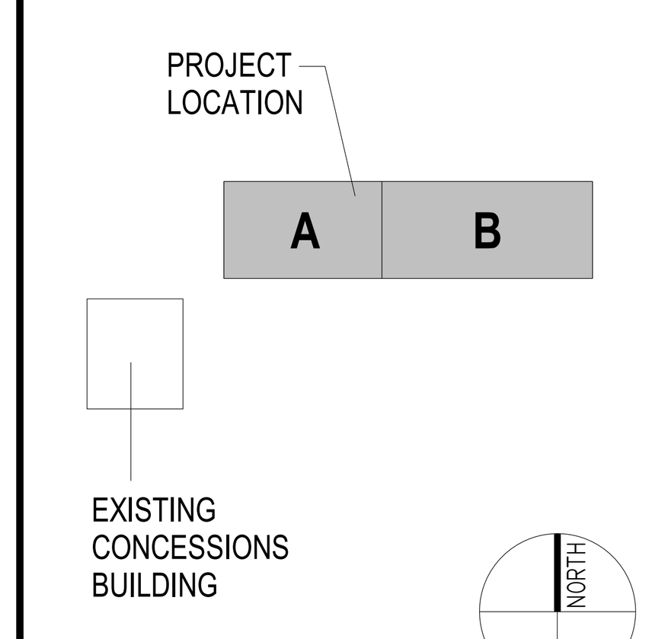

KEY PLAN

CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

DRAWN BY: JAM
PROJECT NUMBER: 223139.00
PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02.14.2024

FIRST FLOOR CODE PLAN

A0.01

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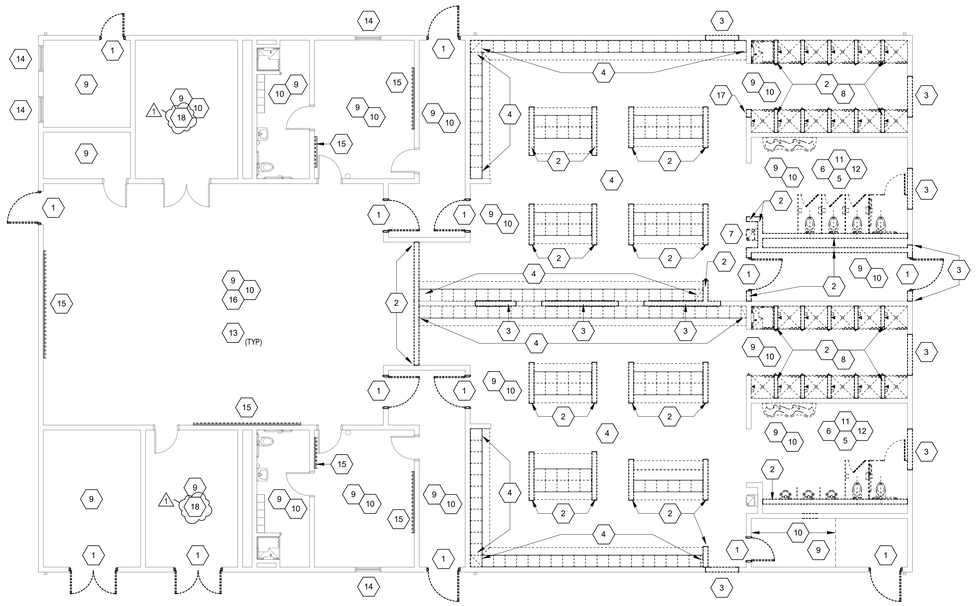

FIRST FLOOR DEMOLITION PLAN

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

ARCHITECTURAL DEMOLITION GENERAL NOTES

A. DEMOLITION IS TO FOLLOW ESTABLISHED CONSTRUCTION SEQUENCE. CONTRACTOR IS TO VERIFY THEIR WORK IN THE FIELD WITH THE DEMOLITION DRAWINGS, NEW CONSTRUCTION DRAWINGS, AND THE EXISTING IN-FIELD CONDITIONS. REPORT DISCREPANCIES TO THE ARCHITECT.
B. "FLOORING" DENOTES FLOOR COVERING MATERIALS INCLUDING BACKINGS, ADHESIVES, BASES, DOWN TO BUT EXCLUSIVE OF FLOOR SLABS AND STRUCTURAL MATERIALS, UNLESS NOTED OTHERWISE.
C. "CEILING" DENOTES CEILING MATERIALS INCLUDING SUSPENSION SYSTEMS ADHESIVE RESIDUES, MOLDINGS, UP TO BUT EXCLUSIVE OF STRUCTURAL MATERIALS.
D. WALLS TO BE REMOVED SHALL BE REMOVED TO A POINT 2" (MIN.) BELOW THE EXISTING FLOOR SLAB (UNLESS SETTING ON SLAB). PATCH WITH NEW CONCRETE TO BE FLUSH WITH THE EXISTING FLOOR SLAB.
E. WHEN OPENINGS ARE CUT INTO AN EXISTING WALL, THE OPENING SHALL BE A MINIMUM OF 1'-4" LONGER THAN THE FINISHED OPENING REQUIRED TO ALLOW FOR 8" (MIN) OF NEW CMU TOOTHED-IN AT EDGES.
F. AFTER THE DEMOLITION OF MATERIALS, THE RESULTING EXPOSED SURFACE SHALL BE SMOOTH AND FLUSH WITH EXISTING CONDITIONS.
G. MECHANICAL AND ELECTRICAL ITEMS THAT ARE CAPPED AND ABANDONED SHALL BE LOCATED BEHIND FINAL FINISH SYSTEMS.
H. COORDINATE THIS WORK WITH DEMOLITION WORK ON SITE, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL.
I. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT TO PREVENT MOVEMENT OR SETTLEMENT OF EXISTING STRUCTURES.
J. CONTRACTOR TO FIELD VERIFY PORTIONS OR SECTIONS OF EXISTING WALLS TO BE FILLED IN AND SALVAGE NECESSARY MATERIAL.
K. MATERIALS OF DEMOLITION SHALL BE DISPOSED OF OFF-SITE UNLESS OTHERWISE DIRECTED BY OWNER.
L. OWNER TO REMOVE EXISTING FURNITURE AND MISCELLANEOUS ITEMS NOT SHOWN AND NOT TO BE DEMOLISHED. CONTRACTOR TO NOTIFY OWNER IN ADVANCE WHEN ITEMS NEED TO BE REMOVED. CONTRACTOR IS RESPONSIBLE FOR OTHER ITEMS TO BE REMOVED.
M. ITEMS TO BE PATCHED, REMOVE ALL LOOSE OR DAMAGED MATERIAL. REFINISH TO LIKE NEW CONDITION, OR IF CONDITION WARRANTS REPLACE IN ENTIRETY.
N. THE OWNER SHALL RESERVE RIGHT TO CLAIM ANY MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEM OFF SITE.
O. "TURNED OVER TO THE OWNER" DENOTES: 1) TAG AND IDENTIFY ITEMS. 2) STORE IN AN ORDERLY FASHION IN A LOCATION DESIGNATED BY THE OWNER.
P. ITEMS MADE OBSOLETE TO ACCOMODATE NEW CONSTRUCTION OR RENOVATION SHALL BE REMOVED.
Q. ITEMS TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY.
R. AFTER REMOVAL OF ITEMS, THE EXISTING WALL SURFACES (IF EXPOSED) SHALL BE REPAIRED/PATCHED AS REQUIRED TO RECEIVE NEW FINISHES.

DEMOLITION PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1 REMOVE EXISTING DOOR(S) AND FRAME ALONG WITH ALL RELATED ACCESSORIES
2 REMOVE EXISTING MASONRY WALL CONSTRUCTION, ALONG WITH ALL RELATED ACCESSORIES. RELOCATE EXISTING MEPT ITEMS AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH MEPT SERIES DRAWINGS. PATCH AND REPAIR EXISTING GWB CEILING AT MASONRY WALL DEMO. INFILL WITH NEW GWB / BATT INSULATION ABOVE AS REQUIRED TO CONCEAL ATTIC SPACE
3 PROVIDE OPENING IN EXISTING MASONRY WALL CONSTRUCTION AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. REFER TO FLOOR PLANS FOR EXTENTS.
4 REMOVE EXISTING LOCKERS, CMU BASE AND WOOD BENCH, ALONG WITH ALL RELATED ACCESSORIES
5 REMOVE TOILET PARTITION(S) AND SUPPORT FRAMING IN ITS ENTIRETY
6 REMOVE EXISTING PLUMBING FIXTURE(S), ALONG WITH ALL RELATED ACCESSORIES. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION. PATCH AND REPAIR ADJACENT WALL AND FLOOR SURFACE AND PREPARE TO ACCEPT NEW FINISHES
7 REMOVE EXISTING DRINKING FOUNTAIN AND ALL RELATED ACCESSORIES IN THEIR ENTIRETY
8 REMOVE EXISTING SHOWER HEAD AND CONTROL, GRAB BARS, SOAP TRAY, SHOWER SEAT, SHOWER ROD AND CURTAIN IN THEIR ENTIRETY
9 EXISTING FINISH CEILING TO REMAIN
10 REMOVE EXISTING WALL BASE AND TRANSITIONS (WHERE APPLICABLE). REMOVE EXISTING EPOXY FLOOR COATING TOPCOAT, SEALERS AND WAX. CLEAN SURFACE AND MECHANICALLY ABRADE COATING TO REMOVE ANY TEXTURE AND PROVIDE REQUIRED SURFACE PROFILE IN PREPARATION FOR NEW FLOOR FINISH
11 REMOVE EXISTING MIRROR, MOUNTING HARDWARE AND ALL ADHESIVE FROM SUBSTRATE
12 REMOVE EXISTING SOAP DISPENSERS,GRAB BARS, ROLL HOLDERS AND ALL RELATED RESTROOM ACCESSORIES
13 REMOVE EXISTING WALL-MOUNTED ACOUSTICAL PANELS, MOUNTING ACCESSORIES AND ADHESIVES. PATCH AND REPAIR ADJACENT WALL, TO REMAIN. PREPARE SURFACE TO ACCEPT NEW FINISHES
14 EXISTING WINDOW SYSTEM TO REMAIN
15 REMOVE EXISTING DISPLAYBOARD, MOUNTING ACCESSORIES AND ADHESIVES. PATCH AND REPAIR ADJACENT WALL. PREPARE SURFACE TO ACCEPT NEW FINISHES
16 REMOVE AND SALVAGE EXISTING WALL-MOUNTED PROJECTION SCREEN AND CEILING-MOUNTED PROJECTOR, ALONG WITH ALL RELATED ACCESSORIES. TURN OVER TO OWNER
17 REMOVE PORTION OF EXISTING MASONRY WALL CONSTRUCTION AS REQUIRED TO ACCOMMODATE NEW FRAME / MASONRY TOOTH-IN. REFER TO FLOOR PLANS FOR EXTENTS.
1 18 REMOVE EXISTING METAL SHELVING UNITS AS REQUIRED TO INSTALL NEW FINISHES. SALVAGE AND REINSTALL UNITS TO THEIR ORIGINAL LOCATION UPON INSTALLATION OF NEW FINISHES

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

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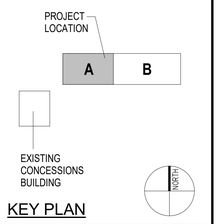

KEY PLAN

CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

DRAWN BY: BC / KT

PROJECT NUMBER: 223139.00

PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02.14.2024

DEMOLITION PLAN

AD0.01

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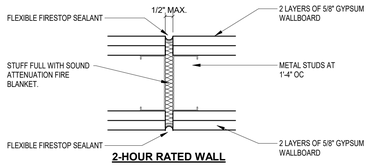
GYPSUM WALLBOARD SCHEDULE

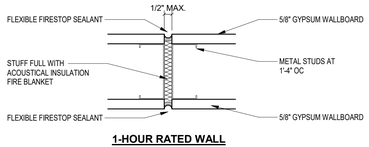
LOCATION	TYPE	MOISTURE-AND-MOLD-RESISTANT GYPSUM BOARD (WGWB)	IMPACT RESISTANT AND MOISTURE-AND-MOLD-RESISTANT GYPSUM BOARD (IRGB) TO 4'-0" AFF MOISTURE-AND-MOLD-RESISTANT GYPSUM BOARD ABOVE 4'-0" AFF	IMPACT RESISTANT AND MOISTURE-AND-MOLD-RESISTANT GYPSUM BOARD (IRGB) TO 4'-0" AFF MOISTURE-AND-MOLD-RESISTANT GYPSUM BOARD ABOVE 4'-0" AFF
TEAM ROOMS				●
STAFF OFFICES			●	
STAFF AND SINGLE STALL RESTROOMS (EXCEPT WET WALLS)			●	
VESTIBULES, CORRIDORS AND ENTRIES				●
MECHANICAL, FIRE PROTECTION, CUSTODIAL AND STORAGE ROOMS				●
BULKHEADS AND CEILINGS		●		

NOTES:
1. WET WALLS: WALLS WITH PLUMBING FIXTURES MOUNTED ON THEM AND WALLS IN SHOWER OR SIMILAR AREAS THAT WILL BE INTERMITTENTLY WET.



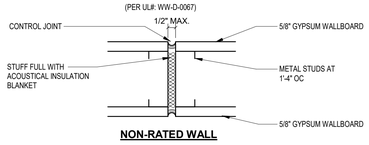
2-HOUR RATED WALL

(PER UL#: WW-D-0067)



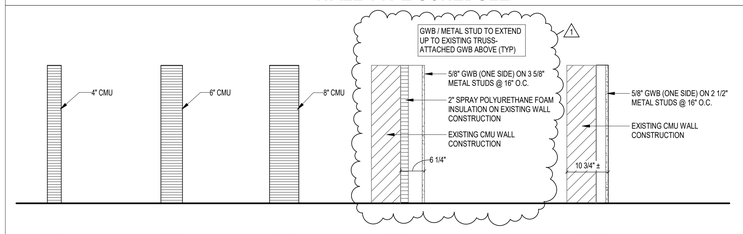
1-HOUR RATED WALL

(PER UL#: WW-D-0067)



NON-RATED WALL

WALL TYPE SCHEDULE



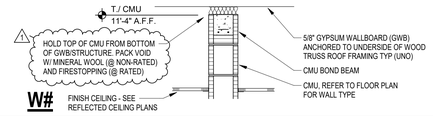
W1A

WALL TYPE GENERAL NOTES

1. WALL TYPE AS SHOWN "1" REFERS TO WALL CONSTRUCTION BELOW CEILING, "A" REFERS TO WALL CONSTRUCTION ABOVE CEILING.
3. REFER TO INTERIOR FINISH PLANS AND LIST OF FINISHES FOR WALL FINISHES.
4. REFER TO STRUCTURAL DRAWINGS FOR HORIZONTAL AND VERTICAL REINFORCING AT MASONRY WALLS.
5. PROVIDE DEEP LEG TRACK AT ALL STEEL STUDS THAT EXTEND TO DECK/STRUCTURE ABOVE (UNO).
6. PACK VOIDS AT NON-RATED WALLS W/ MINERAL WOOL.
7. PROVIDE SOUND ATTENUATION BLANKETS AT WALLS THAT REQUIRE ACOUSTICAL INSULATION OR SOUND RATED CONSTRUCTION.
8. REFER TO SPECIFICATIONS FOR LOCATIONS WHERE ABUSE RESISTANT GYPSUM BOARD, MOISTURE RESISTANT GYPSUM BOARD, WATER RESISTANT BACKER BOARD, AND CEMENTITIOUS BACKER BOARD ARE REQUIRED.

WALL CONSTRUCTION ABOVE CEILING

AN (*) AFTER THE WALLTYPE NUMBER INDICATES WALL TO BE GROUTED SOLID FOR SOUND DEADENING PURPOSES. REFER TO STRUCTURAL DRAWINGS FOR OTHER GROUTING AND REINFORCING REQUIREMENTS.



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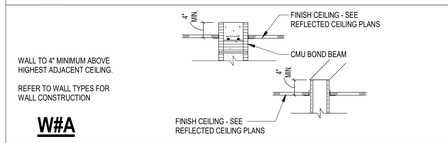

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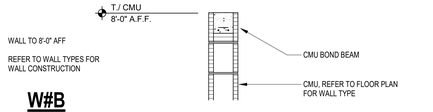

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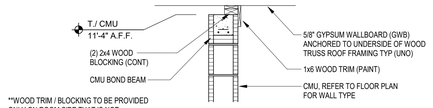


W#C

W#E

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

900 MULBERRY ST.
ZIONSVILLE IN, 46077

ZIONSVILLE COMMUNITY SCHOOLS

ZIONSVILLE COMMUNITY SCHOOLS

ARCHITECT

FANNING HOWEY

317.848.0966 WWW.FHAI.COM

350 E NEW YORK ST, SUITE #300, INDIANAPOLIS, IN 46204

CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

DRAWN BY: KT

PROJECT NUMBER: 223139.00

PROJECT ISSUE DATE: 01.22.2024

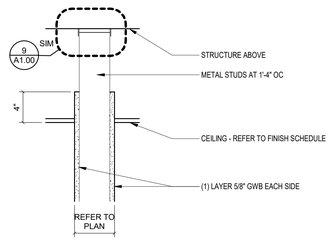
REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02.14.2024

WALL TYPES AND DETAILS

A1.00

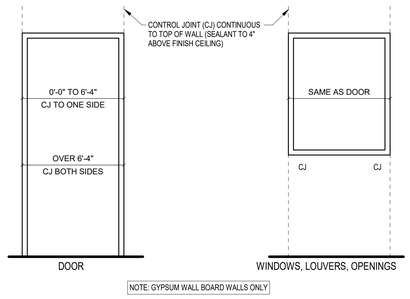
5 TYPICAL STUD WALL CONTROL JOINTS

SCALE: 3" = 1'-0"



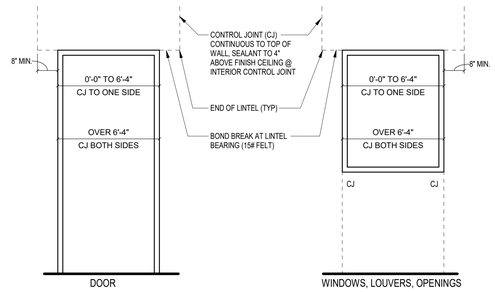
8 GYPSUM WALLBOARD WALL

SCALE: 1 1/2" = 1'-0"



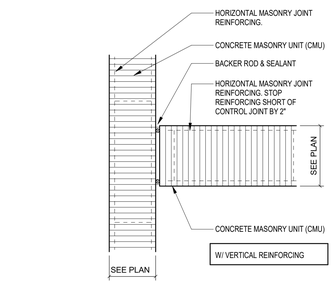
6 TYPICAL PLACEMENT OF CONTROL JOINTS IN GYPSUM WALLBOARD AT OPENINGS

SCALE: 1 1/2" = 1'-0"



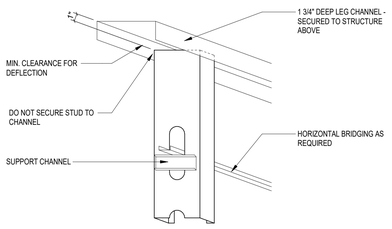
3 TYPICAL PLACEMENT OF CONTROL JOINTS (CJ) IN CMU WALLS AT OPENINGS

SCALE: 1 1/2" = 1'-0"



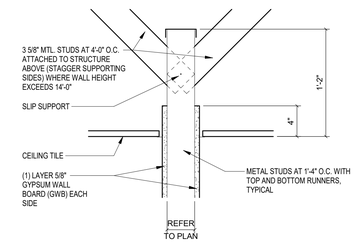
1 TYPICAL CONTROL JOINT

SCALE: 1 1/2" = 1'-0"



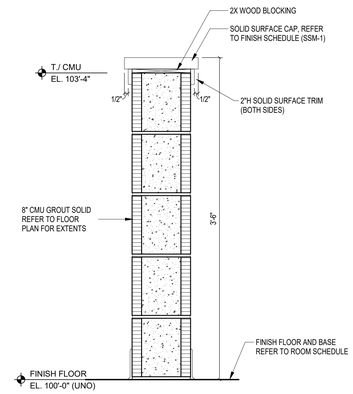
9 METAL STUD / DEEP LEG TRACK

SCALE: 1 1/2" = 1'-0"



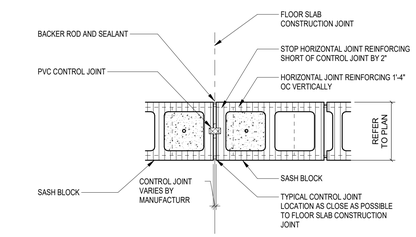
7 BRACING - GWB / METAL STUD WALL

SCALE: 1 1/2" = 1'-0"



4 SECTION - LOW WALL (CMU)

SCALE: 1 1/2" = 1'-0"



2 TYPICAL CONTROL JOINT @ FLOOR JOINT

SCALE: 1 1/2" = 1'-0"

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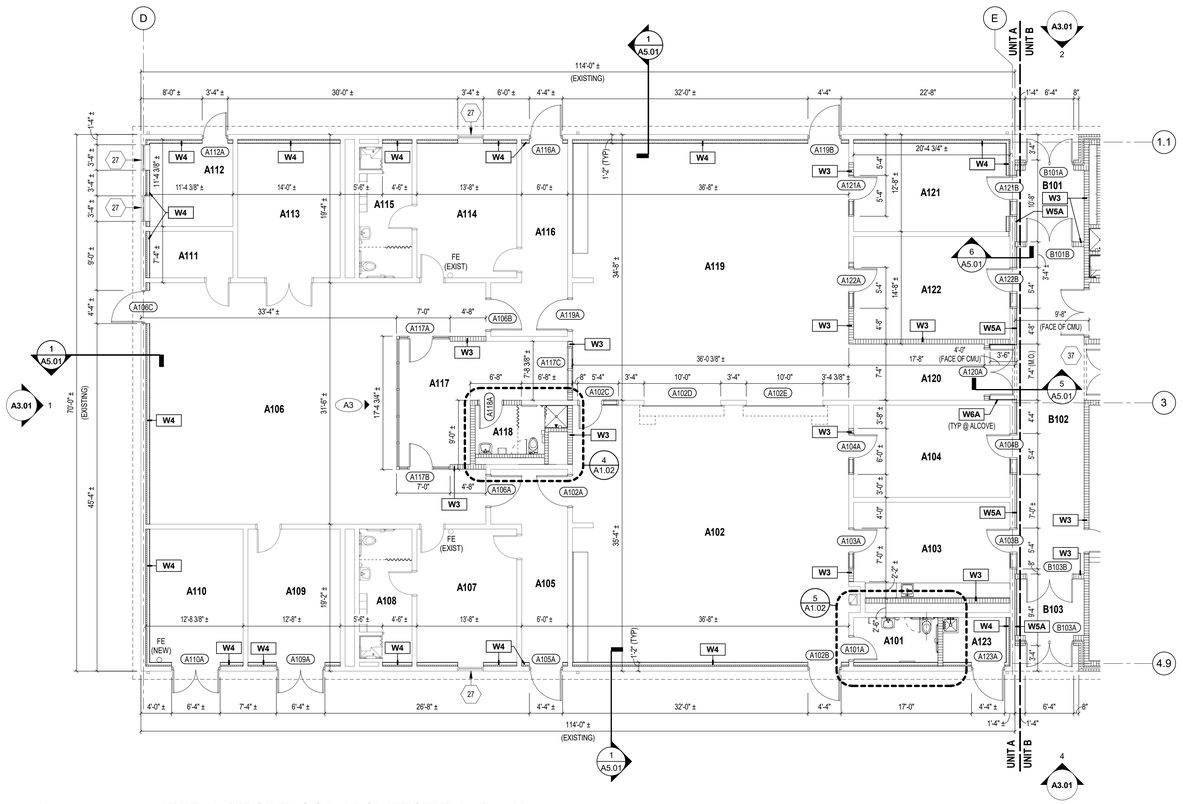
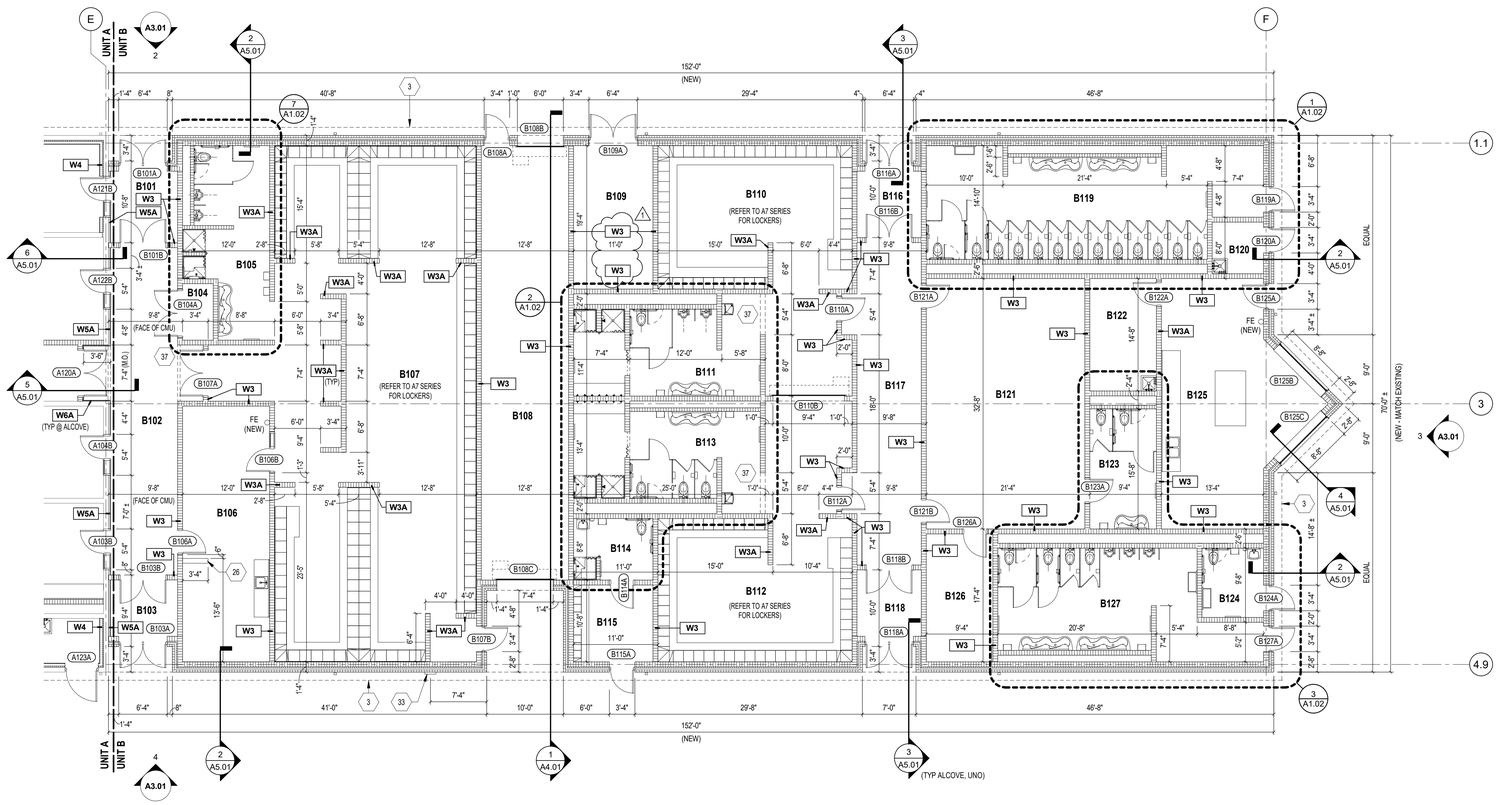


1 UNIT A - FIRST FLOOR ARCHITECTURAL PLAN

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



2 UNIT B - FIRST FLOOR ARCHITECTURAL PLAN

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

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ROOM LEGEND - UNIT B

ROOM NO.	ROOM NAME	AREA (SF)
B101	VESTIBULE	82 SF
B102	CORRIDOR	424 SF
B103	VESTIBULE	65 SF
B104	IDF	29 SF
B105	SHOWERS / TOILETS	234 SF
B106	TRAINING ROOM	377 SF
B107	LOCKER ROOM	1353 SF
B108	STORAGE	646 SF
B109	MECHANICAL	194 SF
B110	LOCKER ROOM	613 SF
B111	SHOWERS / TOILETS	272 SF
B112	LOCKER ROOM	628 SF
B113	SHOWERS / TOILETS	281 SF
B114	OFFICIALS RESTROOM	82 SF
B115	OFFICIALS LOCKER	104 SF
B116	VESTIBULE	73 SF
B117	CORRIDOR	374 SF
B118	VESTIBULE	73 SF
B119	WOMEN'S RESTROOM	574 SF
B120	CUSTODIAL	45 SF
B121	COACHES OFFICE	676 SF
B122	STORAGE	128 SF
B123	COACHES RR	136 SF
B124	FAMILY RESTROOM	73 SF
B125	CONCESSIONS	507 SF
B126	STORAGE	145 SF
B127	MEN'S RESTROOM	396 SF

ROOM LEGEND - UNIT A

ROOM NO.	ROOM NAME	AREA (SF)
A101	TOILET	64 SF
A102	TEAM ROOM	1212 SF
A103	SMALL TEAM ROOM / HOSPITALITY	252 SF
A104	SMALL TEAM ROOM	245 SF
A105	ENTRY	180 SF
A106	TEAM ROOM	1184 SF
A107	COACH	226 SF
A108	COACH RESTROOM	116 SF
A109	STORAGE	209 SF
A110	MECHANICAL	212 SF
A111	FIRE PROTECTION	66 SF
A112	CUSTODIAL / STORAGE	118 SF
A113	STORAGE	234 SF
A114	COACH	229 SF
A115	COACH RESTROOM	118 SF
A116	ENTRY	179 SF
A117	COACH	256 SF
A118	COACH RESTROOM	67 SF
A119	TEAM ROOM	1206 SF
A120	CORRIDOR	130 SF
A121	SMALL TEAM ROOM	229 SF
A122	SMALL TEAM ROOM	273 SF
A123	CUSTODIAL	48 SF

ARCHITECTURAL PLAN GENERAL NOTES

A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
B. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
C. THERE SHALL BE PERIMETER INSULATION CONTINUOUS AROUND THE ENTIRE PERIMETER OF THE BUILDING EXTENDING 2'-0" MINIMUM BELOW GRADE.
D. THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.
E. ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL, AND MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.
F. FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS REFER TO DETAILS ON SHEET XX.
G. ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE. EXCEPTION: EXTERIOR METAL STUD WALLS ARE TO FACE OF METAL STUDS.
H. HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
I. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSE, EXCEPT AT BULKHEADS, WINDOW AND DOOR HEADS.
J. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.
K. REFER TO ROOM FINISH SCHEDULE OR PLAN AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS.
L. PROVIDE WOOD BLOCKING AS REQUIRED, WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.
M. REFER TO MASTERCODE PLANS FOR CODE INFORMATION AND FIRE RATED WALL LOCATIONS.
N. PROVIDE SPRAY FOAM INSULATION AND THERMAL BARRIER CONTINUOUS AT INTERSECTION OF EXTERIOR WALLS AND DECK.

ARCHITECTURAL PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

—— W### INDICATES WALL TYPE. REFER TO DRAWING A1.00 FOR WALL THICKNESS, HEIGHT AND COMPOSITION.

3 DASHED LINE INDICATES ROOF OVERHANG, REFER TO ROOF PLAN
26 LOW WALL, REFER TO 4-A1.00
27 EXISTING WINDOW TO REMAIN, REFER TO FRAME DETAILS 7 AND 8-A6.02
33 DEFIBRILLATOR CABINET (AED). PROVIDE A SMOOTH FACE CMU AT LOCATION OF AED CABINET
37 DASHED LINE INDICATES GWB BULKHEAD, REFER TO REFLECTED CEILING PLAN

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

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ZIONSVILLE IN, 46077

ZIONSVILLE COMMUNITY SCHOOLS

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ARCHITECT

FANNING HOWEY

317.848.0966 WWW.FHAI.COM

350 E NEW YORK ST, SUITE #300, INDIANAPOLIS, IN 46204

PROJECT LOCATION

A | B

EXISTING CONCESSIONS BUILDING

NORTH

KEY PLAN

CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

DRAWN BY: BCKT

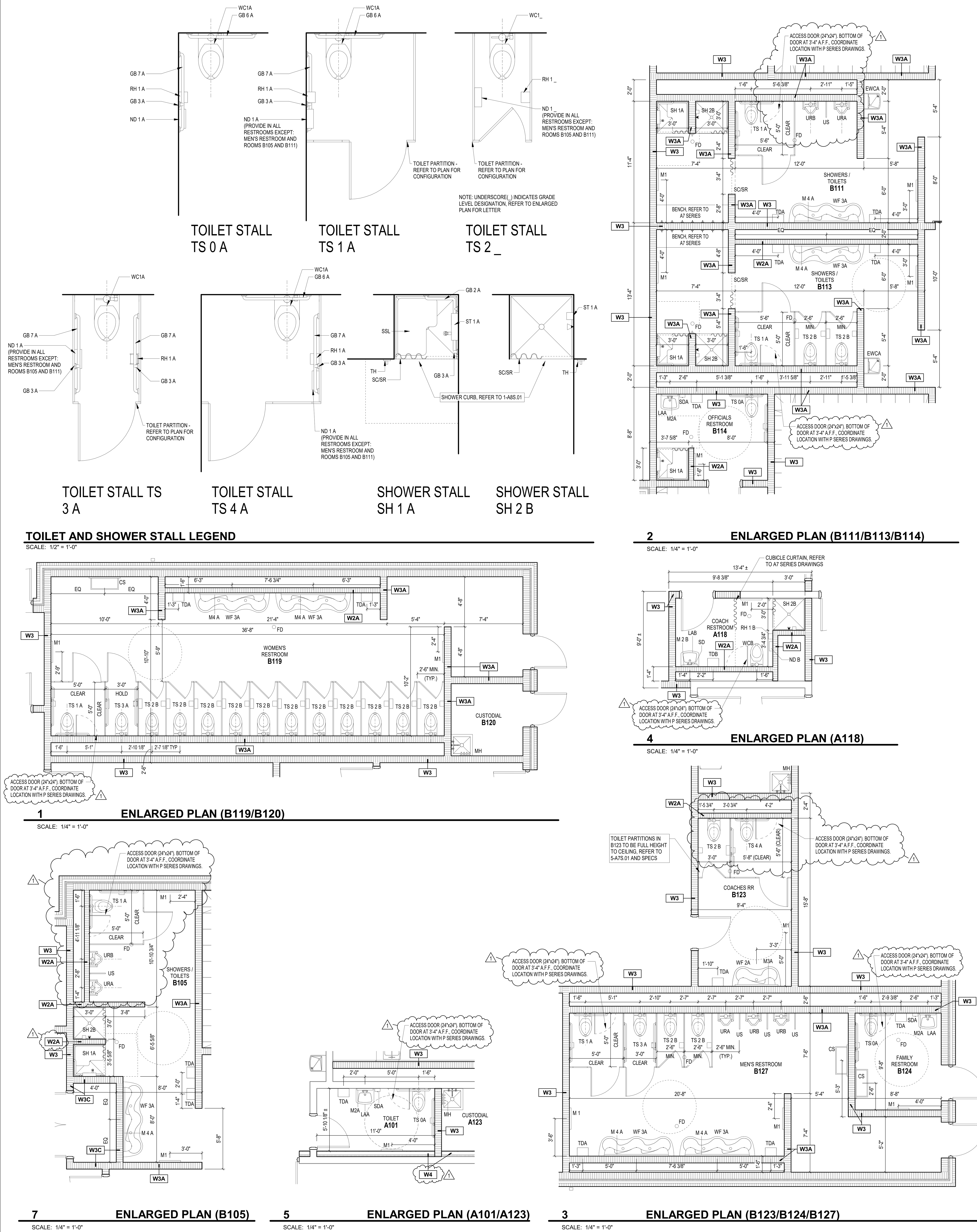
PROJECT NUMBER: 223139.00

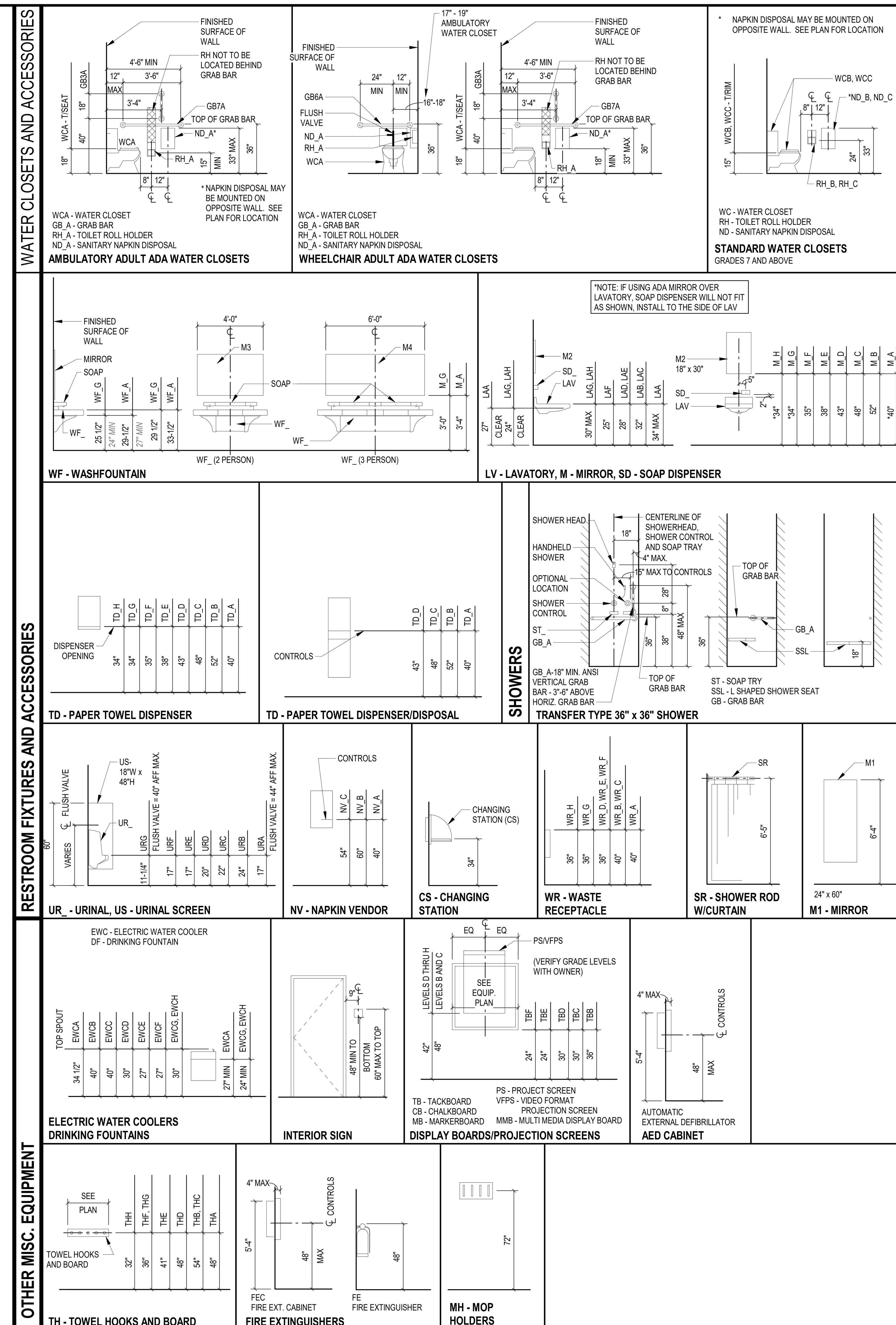
PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02.14.2024

FIRST FLOOR ARCHITECTURAL PLANS

A1.01





MOUNTING HEIGHT NOTES:

1. MOUNTING HEIGHTS ARE BASED UPON THE FOLLOWING: TOILET, BATH AND LAUNDRY EQUIPMENT (ACCESSORIES), BOBRICK WASHROOM EQUIPMENT, INC. ; LAVATORIES, URINALS AND WATER CLOSETS, AMERICAN STANDARD, INC. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MOUNTING HEIGHTS OF TOILET ACCESSORIES SUPPLIED BY OTHER MANUFACTURERS.
2. MOUNTING HEIGHT DRAWING INDICATES A TWO PIECE GRAB BAR. GRAB BAR MAY BE A ONE PIECE OR A TWO PIECE GRAB BAR. REFER TO SPECIFICATIONS FOR SPECIFIC TYPE OF GRAB BAR TO BE USED.
3. UNDERSCORE (_): REFER TO ENLARGED PLANS FOR MISSING NUMBER IDENTIFYNG THE SPECIFIC TYPE OF TOILET ACCESSORY

GRAB BAR SCHEDULE
(ALL SIZES MAY NOT BE USED ON THIS PROJECT)

GB1 - 36" x 54" TWO WALL
GB2 - 36"x36" TWO WALL
GB3 - 18" STRAIGHT
GB4 - 24" STRAIGHT
GB5 - 30" STRAIGHT
GB6 - 36" STRAIGHT
GB7 - 42" STRAIGHT
GB8 - 48" STRAIGHT

MIRROR SCHEDULE
(ALL SIZES MAY NOT BE USED ON THIS PROJECT)

M1 - 24"W x 60"H
M2 - 18"W x 30"H
M3 - 48"W x 30"H
M4 - 60"W x 30"H

SAMPLE TOILET ACCESSORY LABELING:

RH1A

RH	INDICATES TOILET ACCESSORY NAME (RH = TOILET ROLL HOLDER
1	INDICATES TOILET ACCESSORY TYPE WHEN MORE THAN ONE TYPE IS SPECIFIED (IF NO NUMBER IS USED, ONLY ONE TYPE IS SPECIFIED)
A	INDICATES THE GRADE LEVEL, WHICH DETERMINES THE MOUNTING HEIGHT
WCA	INDICATES PLUMBING FIXTURE AT MOUNTING HEIGHT "A". REFER TO PLUMBING DRAWINGS FOR PLUMBING FIXTURE SCHEDULE

GRADE LEVEL LEGEND:

A. ADULT ACCESSIBLE (ADA) HEIGHTS (GRADES 7 AND ABOVE)
B. GRADES 9 AND ABOVE (ADULTS)
C. GRADES 7-8
D. GRADES 4-6
E. GRADES 1-3
F. PRESCHOOL-KINDERGARTEN
G. CHILDREN'S ACCESSIBLE (ADA) HEIGHTS (K-6)
H. CHILDREN'S ACCESSIBLE (ADA) HEIGHTS (PRESCHOOL)

TOILET ACCESSORIES ABBREVIATIONS

CH:	COAT HOOK
CS:	CHANGING STATION
EWC:	ELECTRIC WATER COOLER
DF:	DRINKING FOUNTAIN
FD:	FLOOR DRAIN
FEC:	FIRE EXTINGUISHER CABINET
FE:	FIRE EXTINGUISHER
GB:	GRAB BAR
HD:	HAND DRYER
HRD:	HAIR DRYER
LA:	LAVATORY
M:	MIRROR
MH:	MOP HOLDER
ND:	NAPKIN DISPOSAL
NV:	NAPKIN VENDOR
RH:	ROLL HOLDER (TOILET PAPER DISPENSER)
UR:	URINAL
US:	URINAL SCREEN
SC:	SHOWER CURTAIN
SD:	SOAP DISPENSER
ST:	SOAP TRAY
TD:	TOWEL DISPENSER (PAPER)
TDD:	TOWEL DISPENSER / TOWEL DISPOSAL (PAPER)
TH:	TOWEL HOOK
WC:	WATER CLOSET
WF:	WASHFOUNTAIN
WR:	WASTE RECEPTACLE

*THIS IS A MASTER LIST OF TOILET ACCESSORIES, NOT ALL ARE APPLICABLE.

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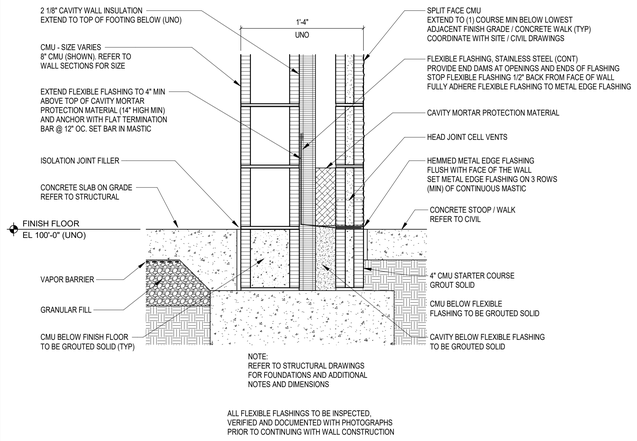
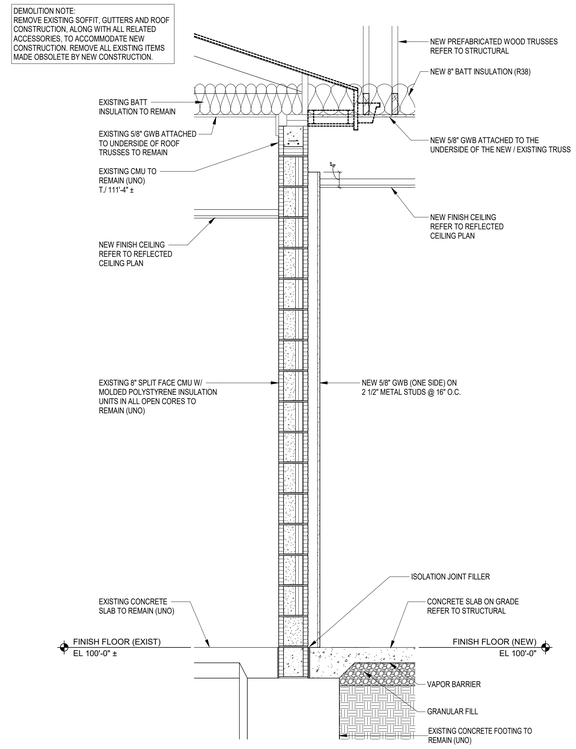
ENLARGED TOILET ROOM PLANS

A1.02



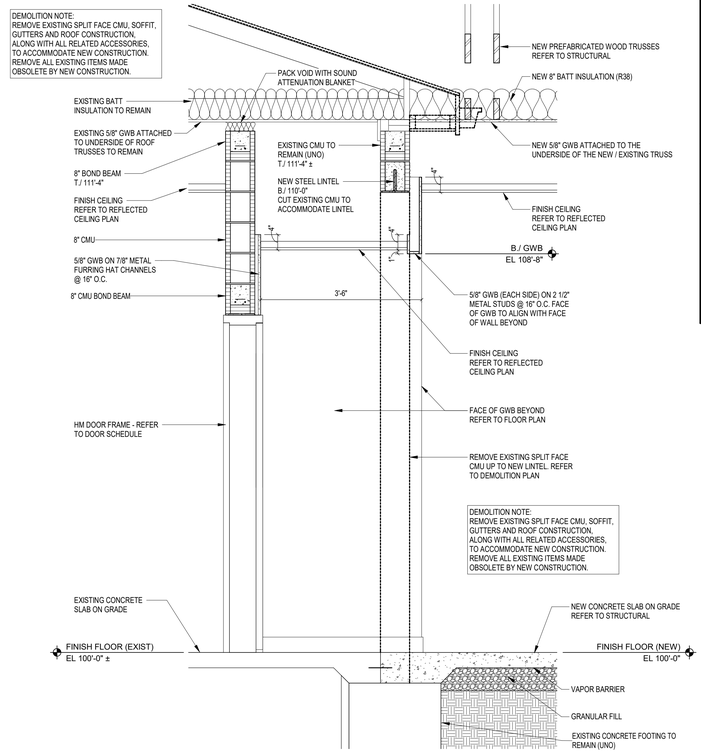
7 BASE FLASHING

SCALE: 1 1/2" = 1'-0"



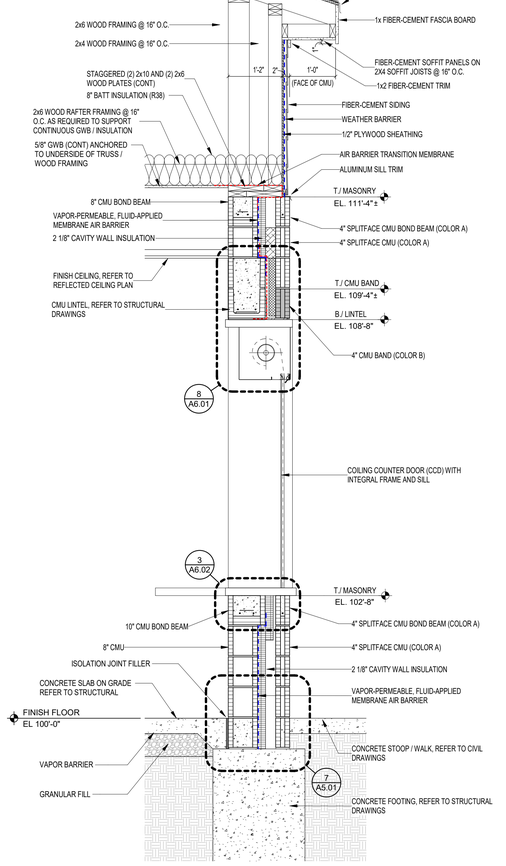
6 WALL SECTION

SCALE: 3/4" = 1'-0"



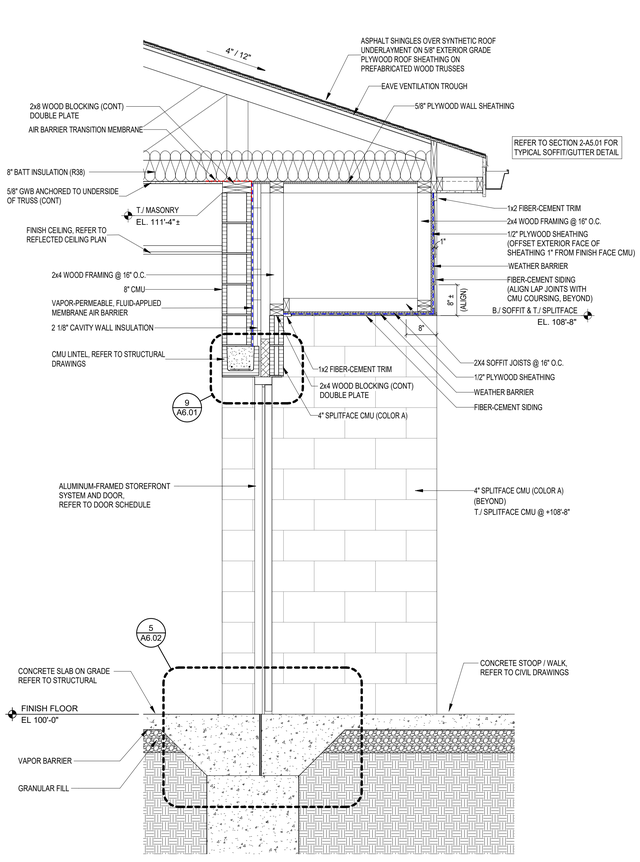
5 WALL SECTION

SCALE: 3/4" = 1'-0"



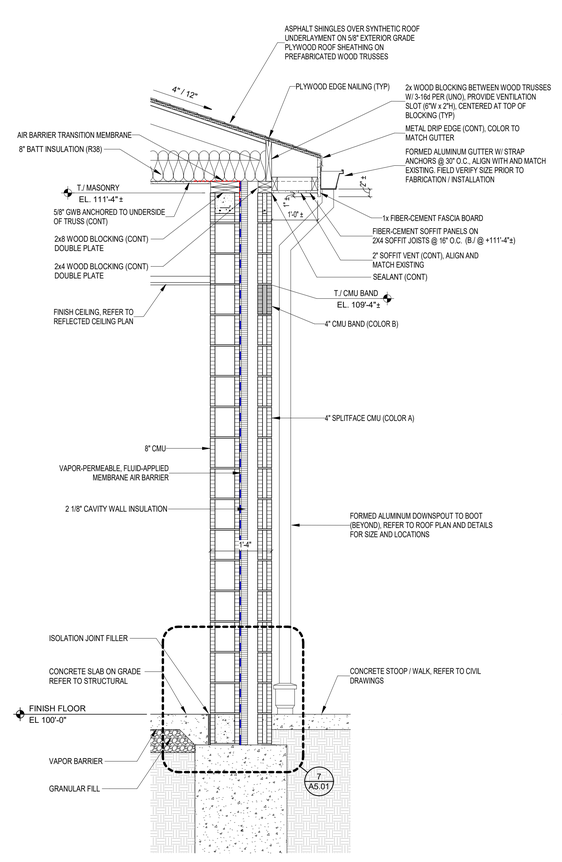
4 WALL SECTION

SCALE: 3/4" = 1'-0"



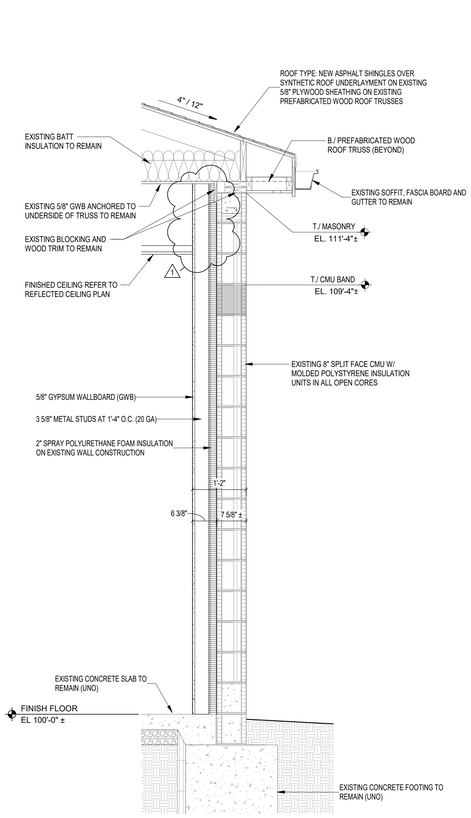
3 WALL SECTION

SCALE: 3/4" = 1'-0"



2 WALL SECTION

SCALE: 3/4" = 1'-0"



1 WALL SECTION

SCALE: 3/4" = 1'-0"

GENERAL NOTES

A. COORDINATE ALL LINTEL AND BOND BEAM REQUIREMENTS WITH STRUCTURAL DRAWINGS AND PROJECT MANUAL.
B. REFER TO THE STRUCTURAL DRAWINGS FOR ALL FOUNDATION AND FOOTING CONDITIONS.
C. PROVIDE HORIZ. JOINT REINFORCING, TIES, AND OTHER ANCHORAGE/REINFORCEMENT ITEMS AS REQ'D. PER PROJECT MANUAL.
D. ROOF TO EXTERIOR WALL JUNCTIONS: REFER TO DIVISION 07 SECTION "THERMAL INSULATION" FOR SPRAY POLYURETHANE INULATION REQUIRED AT THESE LOCATIONS.
E. WALL INSULATION PENETRATIONS: PROVIDE SPRAY POLYURETHANE INSULATION OR SEALANT AROUND ALL PENETRATIONS OF THE WALL INSULATION BY PIPING, CONDUITS, FRAMING, STRUCTURE, ETC.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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WALL SECTIONS

A5.01

DOOR AND FRAME SCHEDULE

DOOR NUMBER	DOORS		FRAME			DETAILS			FIRE RATING IN MINS.	HARDWARE		STC RATING	REMARKS	DOOR NUMBER
	DOOR SIZE (WxH)	DOOR TYPE	FRAME MATERIAL	FRAME ELEVATION	JAMB DEPTH	HEAD	JAMB	SILL		SET NO.	KEYSIDE ROOM			
A101A	3'-0" x 7'-2"	F HM	HM	HM1	8 3/4"	3-A6.01	14-A6.01	-		21.0	A102		2.3	A101A
A102A	4'-0" x 7'-2"	FG2 HM	HM	HM1	8 3/4"	3-A6.01	14-A6.01	-		12.0	A105		2.3	A102A
A102B	4'-0" x 7'-2"	F FRP	AL	A1	4 1/2"	10-A6.01	2-A6.02	-	-	5.0	EXT		2.1, 2.2	A102B
A102C	3'-0" x 7'-2"	F HM	HM	HM3	8 3/4"	2-A6.01	13-A6.01	-		17.0	A102			A102C
A102D	10'-0" x 8'-0"	OHCD	STL	-	2"	6-A6.01	18-A6.01	-		24.0	A119		2.9	A102D
A102E	10'-0" x 8'-0"	OHCD	STL	-	2"	6-A6.01	18-A6.01	-		24.0	A119		2.9	A102E
A103A	3'-0" x 7'-2"	F HM	HM	HM3	8 3/4"	1-A6.01	12/13-A6.01	-		18.0	A102			A103A
A103B	3'-0" x 7'-2"	F HM	HM	HM3	11 7/8"	4-A6.01	15-A6.01	-		18.0	B102			A103B
A104A	3'-0" x 7'-2"	F HM	HM	HM3	8 3/4"	1-A6.01	12/13-A6.01	-		18.0	A102			A104A
A104B	3'-0" x 7'-2"	F HM	HM	HM3	11 7/8"	4-A6.01	15-A6.01	-		18.0	B102			A104B
A105A	4'-0" x 7'-2"	F FRP	AL	A1	4 1/2"	11-A6.01	2-A6.02	-	-	3.0	EXT	-	2.1, 2.2, 2.3, 2.4	A105A
A106A	4'-0" x 7'-2"	FG2 HM	HM	HM1	8 3/4"	3-A6.01	14-A6.01	-	△	12.0	A105		2.3	A106A
A106B	4'-0" x 7'-2"	FG2 HM	HM	HM1	8 3/4"	3-A6.01	14-A6.01	-		12.0	A116		2.3	A106B
A106C	4'-0" x 7'-2"	F FRP	AL	A1	4 1/2"	11-A6.01	2-A6.02	-	-	5.0	EXT		2.1, 2.2, 2.3	A106C
A109A	PR 3'-0" x 7'-2"	F FRP	AL	A2	4 1/2"	11-A6.01	2-A6.02	-		4.0	EXT		2.1, 2.2, 2.3, 2.7	A109A
A110A	PR 3'-0" x 7'-2"	F FRP	AL	A2	4 1/2"	11-A6.01	2-A6.02	-		4.0	EXT		2.1, 2.2, 2.3, 2.7	A110A
A112A	3'-0" x 7'-2"	F FRP	AL	A1	4 1/2"	11-A6.01	2-A6.02	-	-	7.0	EXT		2.1, 2.2, 2.3	A112A
A116A	4'-0" x 7'-2"	F FRP	AL	A1	4 1/2"	11-A6.01	2-A6.02	-	-	3.0	EXT	-	2.1, 2.2, 2.3, 2.4	A116A
A117A	3'-0" x 7'-2"	FGAL2	AL	A4	4 1/2"	5-A6.01	16/17-A6.01	-		10.0	A106			A117A
A117B	3'-0" x 7'-2"	FGAL2	AL	A5	4 1/2"	5-A6.01	16/17-A6.01	-		10.0	A106			A117B
A117C			HM	HM4	8 3/4"	1-A6.01	12-A6.01	4-A6.02		-	A117			A117C
A118A	3'-0" x 7'-2"	F HM	HM	HM1	8 3/4"	1-A6.01	12-A6.01	-		19.0	A117			A118A
A119A	4'-0" x 7'-2"	FG2 HM	HM	HM1	8 3/4"	3-A6.01	14-A6.01	-		12.0	A116		2.3	A119A
A119B	4'-0" x 7'-2"	F FRP	AL	A1	4 1/2"	10-A6.01	2-A6.02	-	-	5.0	EXT		2.1, 2.2	A119B
A120A	PR 3'-0" x 7'-2"	N HM	HM	HM2	10 1/4"	1-A6.01	12-A6.01	-		11.0	B102			A120A
A121A	3'-0" x 7'-2"	F HM	HM	HM3	8 3/4"	1/2-A6.01	12/13-A6.01	-		18.0	A119			A121A
A121B	3'-0" x 7'-2"	F HM	HM	HM3	11 7/8"	4-A6.01	15-A6.01	-		18.0	B101			A121B
A122A	3'-0" x 7'-2"	F HM	HM	HM3	8 3/4"	1-A6.01	12-A6.01	-		18.0	A119			A122A
A122B	3'-0" x 7'-2"	F HM	HM	HM3	11 7/8"	4-A6.01	15-A6.01	-		18.0	B102			A122B
A123A	4'-0" x 7'-2"	F FRP	AL	A1	4 1/2"	11-A6.01	2-A6.02		-	7.0	EXT		2.1, 2.2, 2.3	A123A
B101A	PR 3'-0" x 7'-2"	N FRP	AL	A2	4 1/2"	9-A6.01	20-A6.01	5-A6.02		2.0	EXT		2.1, 2.2, 2.4, 2.5, 2.6	B101A
B101B	PR 3'-0" x 7'-2"	N HM	HM	HM2	8 3/4"	1-A6.01	12-A6.01	-		14.0	B101		2.6	B101B
B103A	PR 3'-0" x 7'-2"	N FRP	AL	A2	4 1/2"	9-A6.01	20-A6.01	5-A6.02		2.0	EXT		2.1, 2.2, 2.4, 2.5, 2.6	B103A
B103B	PR 3'-0" x 7'-2"	N HM	HM	HM2	8 3/4"	1-A6.01	12-A6.01	-		14.0	B103		2.6	B103B
B104A	PR 3'-0" x 7'-2"	F HM	HM	HM2	8 3/4"	1-A6.01	12-A6.01	-		15.0	B102		2.10	B104A
B106A	3'-0" x 7'-2"	N HM	HM	HM1	8 3/4"	1-A6.01	12-A6.01	-		18.0	B102			B106A
B106B	3'-0" x 7'-2"	F HM	HM	HM3	8 3/4"	1-A6.01	12-A6.01	-		18.0	B107			B106B
B107A	PR 3'-0" x 7'-2"	N HM	HM	HM2	8 3/4"	1-A6.01	12-A6.01	-		11.0	B102			B107A
B107B	3'-0" x 7'-2"	F FRP	AL	A1	4 1/2"	9-A6.01	20-A6.01	5-A6.02	-	5.0	EXT		2.1, 2.2	B107B
B108A	3'-0" x 7'-2"	F FRP	AL	A1	4 1/2"	9-A6.01	20-A6.01	5-A6.02	-	3.0	EXT		2.1, 2.2, 2.4	B108A
B108B	6'-0" x 8'-0"	OHCD	STL	-	2"	7-A6.01	1-A6.02	6-A6.02		24.0	EXT		2.9	B108B
B108C	7'-4" x 8'-0"	OHCD	STL	-	2"	7-A6.01	1-A6.02	6-A6.02		24.0	EXT		2.9	B108C
B109A	PR 3'-0" x 7'-2"	F FRP	AL	A2	4 1/2"	9-A6.01	20-A6.01	5-A6.02		4.0	EXT		2.1, 2.2, 2.7	B109A
B110A	3'-0" x 7'-2"	F HM	HM	HM1	8 3/4"	1-A6.01	12-A6.01	-	△	12.0	B117			B110A
B110B	9'-4" x 8'-0"	OHCD	STL	-	2"	6-A6.01	18-A6.01	-		24.0	B112		2.9	B110B
B112A	3'-0" x 7'-2"	F HM	HM	HM1	8 3/4"	1-A6.01	12-A6.01	-	△	12.0	B117			B112A
B114A	3'-0" x 7'-2"	F HM	HM	HM1	8 3/4"	1-A6.01	12-A6.01	-		20.0	B115			B114A
B115A	3'-0" x 7'-2"	F FRP	AL	A1	4 1/2"	9-A6.01	20-A6.01	5-A6.02	-	8.0	EXT		2.1, 2.2	B115A
B116A	PR 3'-0" x 7'-2"	N FRP	AL	A2	4 1/2"	9-A6.01	20-A6.01	5-A6.02		1.0	EXT		2.1, 2.2, 2.4, 2.5	B116A
B116B	PR 3'-0" x 7'-2"	N HM	HM	HM2	8 3/4"	1-A6.01	12-A6.01	-		13.0	B116			B116B
B118A	PR 3'-0" x 7'-2"	N FRP	AL	A2	4 1/2"	9-A6.01	20-A6.01	5-A6.02		1.0	EXT		2.1, 2.2, 2.4, 2.5	B118A
B118B	PR 3'-0" x 7'-2"	N HM	HM	HM2	8 3/4"	1-A6.01	12-A6.01	-		13.0	B118			B118B
B119A	3'-0" x 7'-2"	F FRP	AL	A1	4 1/2"	9-A6.01	20-A6.01	5-A6.02	-	9.0	EXT		2.1, 2.2	B119A
B120A	3'-0" x 7'-2"	F FRP	AL	A1	4 1/2"	9-A6.01	20-A6.01	5-A6.02	-	7.0	EXT		2.1, 2.2	B120A
B121A	3'-0" x 7'-2"	N HM	HM	HM1	8 3/4"	1-A6.01	12-A6.01	-		17.0	B117			B121A
B121B	3'-0" x 7'-2"	N HM	HM	HM1	8 3/4"	1-A6.01	12-A6.01	-		17.0	B117			B121B
B122A	3'-0" x 7'-2"	F HM	HM	HM1	8 3/4"	1-A6.01	12-A6.01	-		16.0	B125			B122A
B123A	3'-0" x 7'-2"	F HM	HM	HM1	8 3/4"	1-A6.01	12-A6.01	-		22.0	B121			B123A
B124A	3'-0" x 7'-2"	F FRP	AL	A1	4 1/2"	9-A6.01	20-A6.01	5-A6.02	-	8.0	EXT		2.1, 2.2	B124A
B125A	3'-0" x 7'-2"	F FRP	AL	A1	4 1/2"	9-A6.01	20-A6.01	5-A6.02	-	6.0	EXT		2.1, 2.2, 2.4	B125A
B125B	8'-8" x 6'-0"	CCD	SS	-	2"	8-A6.01	19-A6.01	3-A6.02	△	23.0	B125		2.8	B125B
B125C	8'-8" x 6'-0"	CCD	SS	-	2"	8-A6.01	19-A6.01	3-A6.02		23.0	B125		2.8	B125C
B126A	3'-0" x 7'-2"	F HM	HM	HM1	8 3/4"	1-A6.01	12-A6.01	-		16.0	B121			B126A
B127A	3'-0" x 7'-2"	F FRP	AL	A1	4 1/2"	9-A6.01	20-A6.01	5-A6.02	-	9.0	EXT		2.1, 2.2	B127A

DOOR SCHEDULE REMARKS

2.1 Provide door undercut as required for door bottom sweep, by door supplier, with ADA compliant threshold as scheduled.

2.2 Threshold to run from masonry to masonry, notch around frame.

2.3 New door, frame, and hardware in existing wall opening. Field verify existing opening size prior to fabricating new door and frame.

2.4 Door with security access system and electronic door hardware. See Division 08 Section "Door Hardware" and electrical drawings. Division 08, Division 26, Division 28, and security access contractor to coordinate for location and installation of conduit/wiring required for electrified hardware items mounted to doors and frames, including, but not limited to, cutting/drilling any access holes required for pulling wires through frame head/jambs to the electrified hardware items.

2.5 Hardware removable mullion by Division 08 Section "Door Hardware".

2.6 Automatic Door Operator, see Division 08 Section "Door Hardware". Division 26 to provide keyed disconnect switch for automatic door operator.

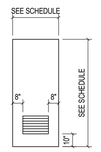
2.7 Overlapping "Z" astragal by door supplier, factory prepared for hardware as specified. Astragal to be on key side of door.

2.8 See Division 08 Section "Coiling Counter Doors" .

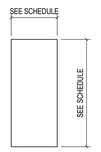
2.9 See Division 08 Section "Overhead Coiling Doors" .

2.10 Doors shall have a 1" undercut. Coordinate with Division 08 "Door Hardware" .

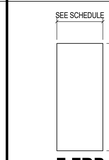
HM DOORS



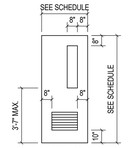
L HM
BOTTOM LOUVERED



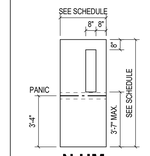
F HM
FLUSH DOOR



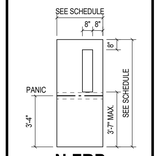
F FRP
FLUSH DOOR



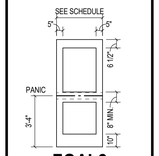
NL HM
NARROW LITE AND LOUVER



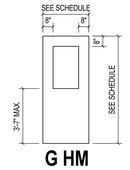
N HM
NARROW LITE



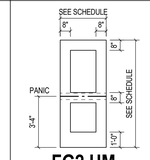
N FRP
NARROW LITE



FGAL2
FULL GLASS 2



G HM
HALF GLASS



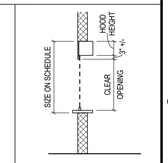
FG2 HM
FULL GLASS 2 HM

FRP DOORS

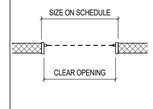
ALUMINUM DOORS

OTHER

CCD
COILING COUNTER DOOR

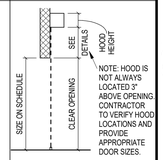


COILING COUNTER DOORS -BETWEEN JAMB MOUNTED SECTION



COILING COUNTER DOORS -BETWEEN JAMB MOUNTED PLAN

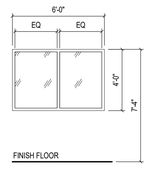
OHCD
OVERHEAD COILING DOOR



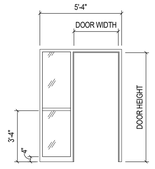
OVERHEAD COILING DOORS AND GRILLES - FACE MOUNTED SECTION

DOOR TYPES

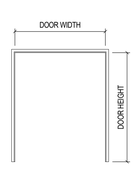
SCALE: 1/4" = 1'-0"



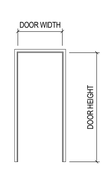
HM4



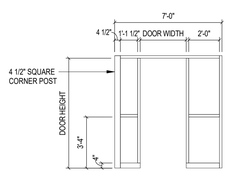
HM3



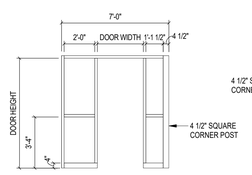
HM2



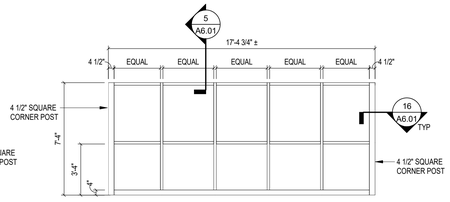
HM1



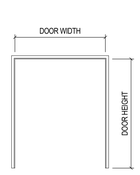
A5



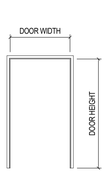
A4



A3



A2



A1

FRAME ELEVATIONS

SCALE: 1/4" = 1'-0"

FIELD VERIFY DIMENSIONS SHOWN PRIOR TO FABRICATION / INSTALLATION

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

900 MULBERRY ST.
ZIONSVILLE IN, 46077

ZIONSVILLE COMMUNITY SCHOOLS

ZIONSVILLE COMMUNITY SCHOOLS

ARCHITECT

FANNING HOWEY

317.848.0966 WWW.FHAI.COM

350 E NEW YORK ST, SUITE #300, INDIANAPOLIS, IN 46204

CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10900161 STATE OF INDIANA ARCHITECT

DRAWN BY: KT / BC

PROJECT NUMBER: 223139.00

PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02.14.2024

DOOR AND FRAME SCHEDULE, DOOR TYPES & FRAME ELEVATIONS

A6S.01

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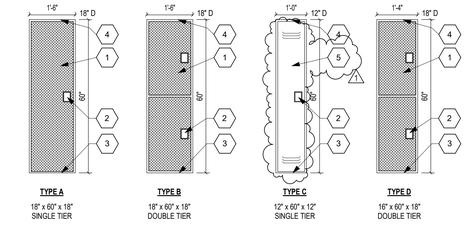
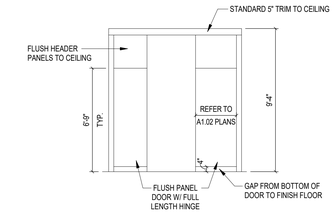
2/13/2024 3:27:10 PM



LOCKER NOTES:
1. PERFORATED DOORS
2. LOCKABLE PADLOCK HANDLE
3. LOCKERS SIT ON CONCRETE BENCH - REFER TO DETAILS 10,11,12-A7S.01.
4. SLOPED TOP
5. SOLID DOOR WITH VENTS

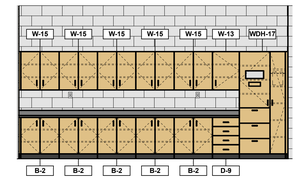
LOCKER TYPES
SCALE: 1/2" = 1'-0"



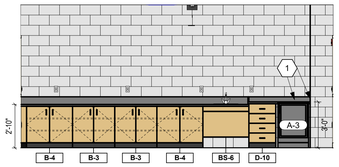
5 FULL HEIGHT TOILET PARTITION (ROOM B123)
SCALE: 1/4" = 1'-0"

EDUCATIONAL CASEWORK SCHEDULE

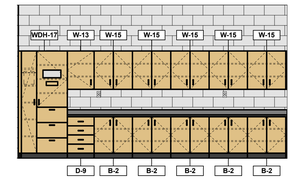
TYPE	NO.	SIZE W	D	H	DESCRIPTION
B	1	1'-6"	2'-0"	2'-10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND ONE HINGED DOOR.
B	2	2'-6"	2'-0"	2'-10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
B	3	2'-9"	2'-0"	2'-10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
B	4	3'-0"	2'-0"	2'-10"	BASE UNIT WITH TWO ADJUSTABLE SHELVES AND TWO HINGED DOORS.
BO	5	2'-3"	1'-8"	2'-10"	OPEN BASE UNIT WITH ONE ADJUSTABLE SHELF.
BO	33	2'-9"	1'-1"	2'-10"	OPEN BASE UNIT WITH ONE ADJUSTABLE SHELF.
BS	6	3'-0"	2'-0"	2'-0"	ADULT ADA SINK BASE UNIT WITH A REMOVABLE ACCESS PANEL.
BS	7	3'-3"	2'-0"	2'-10"	ADA SINK BASE UNIT WITH TWO POCKET DOORS AND ONE BLANK DRAWER PANEL.
D	8	1'-6"	2'-0"	2'-10"	DRAWER UNIT WITH FOUR EQUAL DRAWERS. 4-1/2 INCHES DEEP INSIDE.
D	9	1'-9"	2'-0"	2'-10"	DRAWER UNIT WITH FOUR EQUAL DRAWERS. 4-1/2 INCHES DEEP INSIDE.
D	10	1'-9"	2'-0"	3'-0"	DRAWER UNIT WITH FOUR EQUAL DRAWERS. 5 INCHES DEEP INSIDE.
T	11	2'-6"	2'-0"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND TWO HINGED DOORS.
TO	13	2'-0"	2'-0"	7'-0"	OPEN TALL UNIT WITH FIVE ADJUSTABLE SHELVES.
TO	14	2'-3"	2'-0"	7'-0"	OPEN TALL UNIT WITH FIVE ADJUSTABLE SHELVES.
TO	15	2'-6"	2'-0"	7'-0"	OPEN TALL UNIT WITH FIVE ADJUSTABLE SHELVES.
W	12	1'-6"	1'-2"	2'-6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
W	13	1'-9"	1'-2"	2'-6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
W	14	3'-0"	1'-2"	1'-3"	WALL UNIT WITH TWO HINGED DOORS.
W	15	2'-6"	1'-2"	2'-6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
W	16	3'-0"	1'-2"	2'-6"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
WDH	17	3'-0"	2'-0"	7'-0"	TALL TEACHER WARDROBE UNIT WITH ONE FIXED SHELF, ROD, THREE ADJUSTABLE SHELVES, 10 INCH X 12 INCH MIRROR, PIN TRAY, THREE FILE DRAWERS, AND TWO HINGED DOORS, WITH GLASS INSERT AND ONE VENT IN DOOR. CABINET IS LOCKABLE.



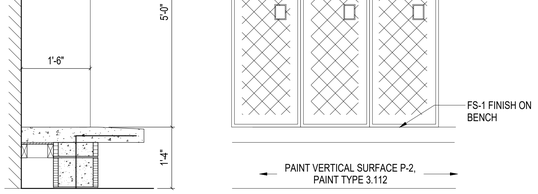
1 A102 WEST WALL
SCALE: 1/4" = 1'-0"



2 A103 SOUTH WALL
SCALE: 1/4" = 1'-0"



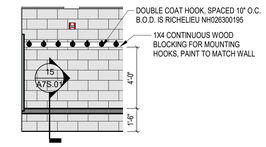
3 A119 WEST WALL
SCALE: 1/4" = 1'-0"



LOCKER SECTION

LOCKER ELEVATION

NOTE:
SEE EQUIPMENT PLANS FOR LOCKER TYPE AND LOCATION



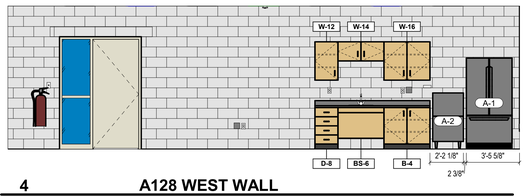
14 COAT HOOK
SCALE: 1/4" = 1'-0"

FOOD SERVICE EQUIPMENT

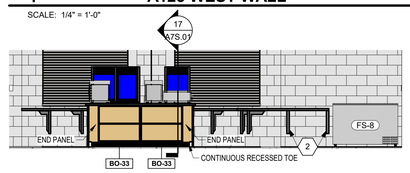
ITEM #	QTY	DESCRIPTION	MANUFACTURER	MODEL	PROVIDED BY	INSTALLED BY
FS-1	2	BEVERAGE COOLERS	BY VENDOR	BY VENDOR	OWNER	OWNER
FS-5	1	COFFEE BREWER	BUNN	12950.0217	OWNER	OWNER
FS-6	1	SLUSHY MACHINE	BY VENDOR	BY VENDOR	OWNER	OWNER
FS-7	1	CAPPUCCINO MACHINE	BY VENDOR	BY VENDOR	OWNER	OWNER
FS-8	1	ICE CREAM MERCHANDISER	BY VENDOR	BY VENDOR	OWNER	OWNER
FS-12	1	HOT DOG GRILL	STAR	30C	OWNER	OWNER
FS-13	1	POPCORN POPPER	GOLD MEDAL PRODUCTS	2389	OWNER	OWNER
FS-17	2	COUNTERTOP DISPLAY CASE	HATCO	FDWD-1X	OWNER	OWNER
FS-18	2	NACHO CHEESE DISPLAY	GOLD MEDAL PRODUCTS	5300	OWNER	OWNER
FS-19	2	HOT DOG BUN	APW WYOTT MODEL	BW-20	OWNER	OWNER
FS-20	1	COUNTERTOP DISPLAY CASE	HATCO	FDWD-1X	OWNER	OWNER
FS-32		WIRE SHELVING	METRO	2448NK3	OWNER	OWNER

RESIDENTIAL APPLIANCE SCHEDULE

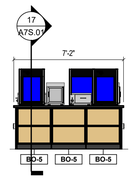
ITEM NO.	ITEM DESCRIPTION	ELEC. FIELD CONNECTION	MECH. FIELD CONNECTION	PLUMB. FIELD CONNECTION
A-1	**REFRIGERATOR WITHOUT ICE MAKER** • 28.8 CU.FT. • FRENCH DOOR • NO DISPENSER • ENERGY STAR QUALIFIED • 70"H x 36"W x 35 11/16"D • COLOR: FINGERPRINT-RESISTANT STAINLESS STEEL • BASIS OF DESIGN FRIGIDAIRE FRFN2823AS	115V, 60Hz, 15AMPS		
A-2	**ICE MACHINE** • 340 LBI DAY • 80 LB STORAGE • NUGGET ICE • 24"W x 39"H X 28.5"D • COLOR: STAINLESS STEEL • BASIS OF DESIGN ESSENTIAL ICE UN324	115 V/ 60Hz/ SIGNLE PHASE/ 15 AMP		X
A-3	**UNDERCOUNTER REFRIGERATOR** • 28.8 CU.FT. • FRENCH DOOR • NO DISPENSER • ENERGY STAR QUALIFIED • 70"H x 36"W x 35 11/16"D • COLOR: FINGERPRINT-RESISTANT STAINLESS STEEL • BASIS OF DESIGN FRIGIDAIRE FRFN2823AS	115V, 60Hz, 15AMPS		X



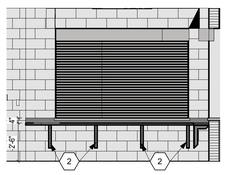
4 A128 WEST WALL
SCALE: 1/4" = 1'-0"



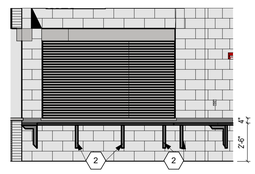
6 A150 ISLAND EAST
SCALE: 1/4" = 1'-0"



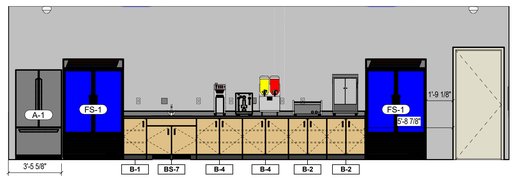
7 A150 ISLAND WEST
SCALE: 1/4" = 1'-0"



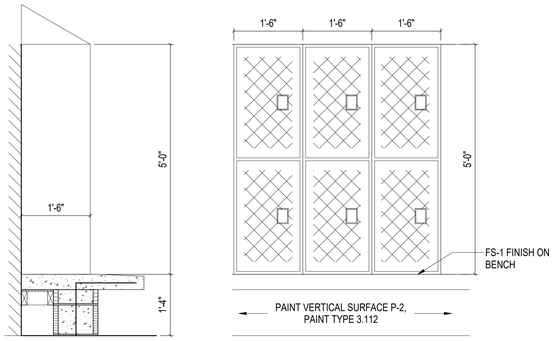
8 A150 NE WALL
SCALE: 1/4" = 1'-0"



13 A150 SE WALL
SCALE: 1/4" = 1'-0"



9 A150 WEST WALL
SCALE: 1/4" = 1'-0"

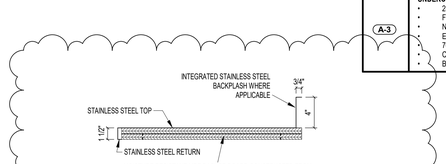


LOCKER SECTION

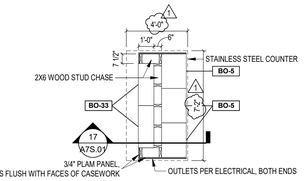
LOCKER ELEVATION

NOTE:
SEE EQUIPMENT PLANS FOR LOCKER TYPE AND LOCATION

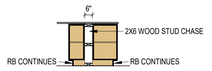
10 LOCKER SECTION AND ELEVATION



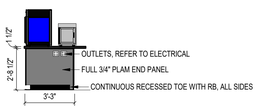
19 STAINLESS STEEL COUNTER
SCALE: 1 1/2" = 1'-0"



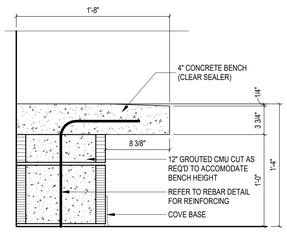
16 B125 ENLARGED ISLAND PLAN
SCALE: 1/4" = 1'-0"



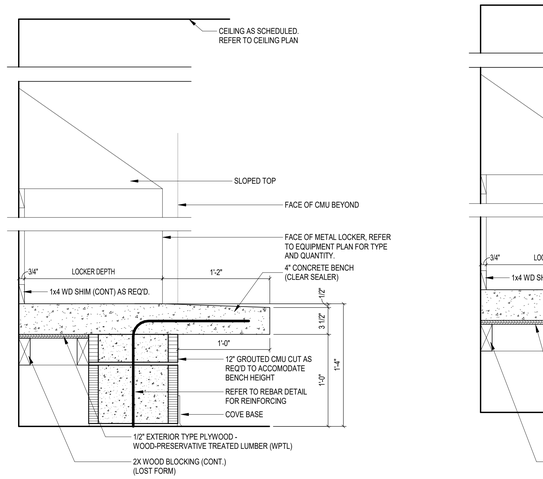
17 B125 ISLAND SECTION
SCALE: 1/4" = 1'-0"



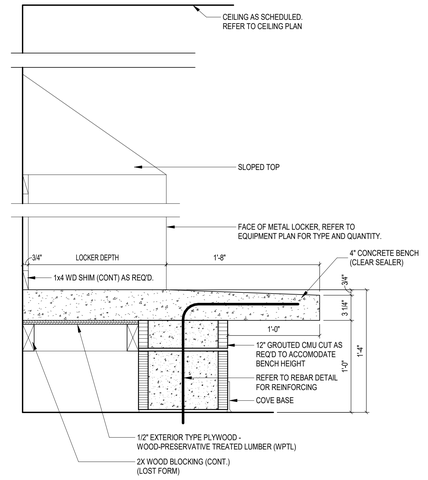
18 TYP ISLAND END
SCALE: 1/4" = 1'-0"



15 TYP. BENCH AND TOP
SCALE: 1 1/2" = 1'-0"



11 TYP. LOCKER BENCH AND TOP
SCALE: 1 1/2" = 1'-0"



12 ADA LOCKER BENCH AND TOP
SCALE: 1 1/2" = 1'-0"

INTERIOR ELEVATION NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1	PROVIDE CLEAT AT BACK AND SIDE WALLS TO SUPPORT COUNTERTOP.
2	COUNTER SUPPORT BRACKETS SPACED NO FURTHER THAN 3'-0" ON CENTER. BASIS OF DESIGN RAKKS SURFACE MOUNT EH COUNTER SUPPORT, SIZE CORRECTLY ACCORDING TO COUNTER DEPTH.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

900 MULBERRY ST.
ZIONSVILLE IN, 46077

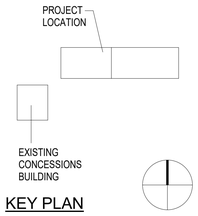
ZIONSVILLE COMMUNITY SCHOOLS

ZIONSVILLE COMMUNITY SCHOOLS

ARCHITECT

FANNING HOWEY

317.848.0966 WWW.FHAI.COM
350 E NEW YORK ST, SUITE #300, INDIANAPOLIS, IN 46204



KEY PLAN

CONSTRUCTION DOCUMENTS

PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

DRAWN BY: MKH
PROJECT NUMBER: 223139.00
PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02.14.2024

EDUCATIONAL CASEWORK SCHEDULES

A7S.01

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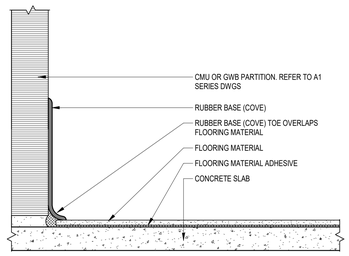
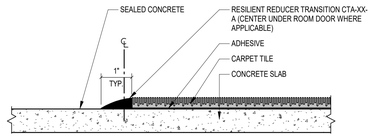


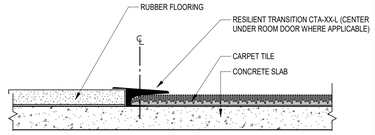
RB WALL BASE DETAIL

- SCALE: 6" = 1'-0"
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION



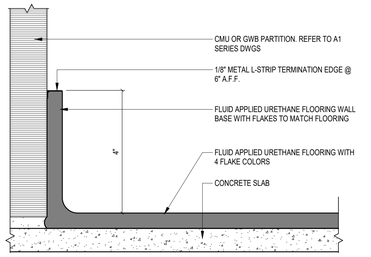
FLOOR TRANSITION DETAIL CART to FS

- SCALE: NTS
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION
- DETAIL SIMILAR FOR TERR TO CSC FLOORING TRANSITION.



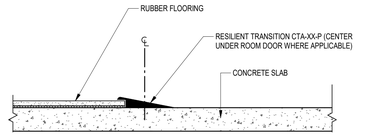
FLOOR TRANSITION DETAIL CART to RUBBER FLOORING

- SCALE: NTS
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION



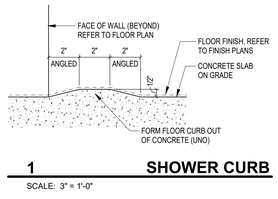
DRF WALL BASE DETAIL

- SCALE: 6" = 1'-0"
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION



FLOOR TRANSITION DETAIL FS to RUBBER FLOORING

- SCALE: NTS
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION



1 SHOWER CURB

SCALE: 3" = 1'-0"

LIST OF FINISHES

REFER TO AXX.500 ARCH. DWG. SHEETS

FLOOR MATERIALS

REFER TO AXX.500 ARCH. DWG. SHEETS

CARPET TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CART-1	INTERFACE / WOVEN GRADIENCE / WG100	108051 ONYX/ 50CMx50CM
CART-2	INTERFACE / WOVEN GRADIENCE / WG100	107672 ONYX/PINE/ 50CMx50CM
CART-3	INTERFACE / WOVEN GRADIENCE / WG200	108058 PINE/ 50CMx50CM

- ALL CARPET BACKING TO HAVE A MOISTURE RESISTANT BARRIER.
- INSTALLATION METHOD TO BE HALF-DROP, UNLESS OTHERWISE NOTED.
- PROVIDE INSTALLATION DRAWINGS FOR REVIEW.

FLOOR SEALER

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
FS	REFER TO SPECIFICATIONS	CLEAR

DECORATIVE RESINOUS FLOORING

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
DRF-1	REFER TO SPECIFICATIONS	50% F3080 LANAI GRAY, 25% F1360 FOREST GREEN 15% F9958 ALPACA WHITE, 10% F5920 CYBERSPACE

RUBBER FLOOR TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RFT-1	MATTER SURFACES / DECATHLON DESIGN TILE	CLOVER

ENTRY CARPET TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
ECT-1	INTERFACE / STEP REPEAT SR 889	IRON 104936

BASE MATERIALS

RESILIENT BASE — 4"H COVE BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RB-1	JOHNSONITE ROPPE	GRAY 48 MATCH JOHNSONITE

DECORATIVE RESINOUS BASE — 4"H BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
DRF-1	REFER TO SPECIFICATIONS	MATCH DRF-1 FLOORING

WALL FINISHES

PAINT

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
P-1 (FIELD)	SHERWIN WILLIAMS	SW 7009 PEARLY WHITE
P-2 (SCHOOL COLOR)	SHERWIN WILLIAMS	PPG 1187-7 MIDNIGHT TRYST
P-3 (CEILING)	SHERWIN WILLIAMS	SW 7006 EXTRA WHITE
P-4 (DOOR/FRAMES)	PPG	PPG0845 CITY SKYLINE

CEILING MATERIALS

ACOUSTICAL CEILING TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
ACT-1	REFER TO SPECIFICATIONS	WHITE / 24"X24"
ACT-2	REFER TO SPECIFICATIONS	WHITE / 24"X24"

INTERIOR FINISH SYSTEM

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
IFS	REFER TO SPECIFICATIONS	ARCHITECT TO CHOOSE FROM MANUFACTURER STANDARD

MATERIAL & FINISH GENERAL NOTES

A. REFER TO FINISH A8 SERIES FINISH PLANS FOR MATERIALS, PATTERNS, AND COLORS.

B. ALL CARPET TO HAVE HALF-DROP INSTALL UNLESS NOTED OTHERWISE.

C. (RB) RUBBER BASE AT ALL FS, RFT AND CART LOCATIONS. ALL RB TO BE COVED RB-1, UNLESS NOTED OTHERWISE.

D. ALL ECT TO HAVE MONOLITHIC INSTALL, UNLESS NOTED OTHERWISE.

PAINT TYPE GENERAL NOTES

A. PAINTING AND FINISHING OF EXTERIOR SURFACES AS DESIGNATED. DETAILS SHALL BE UNDER THE WORK SECTION 09 91 13 - EXTERIOR PAINTING.

B. ALL GYPSUM BOARD CEILINGS AND SOFFITS SHALL BE PAINTED WITH PAINT TYPE #9.21 (FLAT) UNLESS OTHERWISE NOTED.

C. IN ROOMS *A108, A115, A116, B105, B111, B113, B114, B120* PAINT WITH PAINT CODE #4.222 (EPOXY SEMI-GLOSS, WET AREAS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.

D. IN ROOMS *A101, A105, A106, A115, A116, A118, A123, B101, B102, B103, B105, B106, B107, B108, B110, B111, B112, B113, B114, B115, B116, B117, B118, B119, B120, B122, B123, B124, B126, B127* PAINT WITH PAINT CODE #4.224 (EPOXY SEMI-GLOSS, NON-WET AREAS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.

E. ALL GYPSUM BOARD PAINT WITH PAINT CODE #9.211 (EPOXY SEMI-GLOSS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.

F. ALL NON-INTEGRALLY COLORED CMU WALLS IN HIGH TRAFFIC AREAS PAINT WITH PAINT CODE WET ENVIRONMENTS #4.222 (EPOXY GLOSS), DRY ENVIRONMENTS REQUIRING ADDITIONAL ABRASION RESISTANCE (EX TOILET ROOMS) 4.224 (EPOXY SEMI-GLOSS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.

G. ALL CONCRETE SHALL BE PAINTED INTERIOR PAINT TYPE #3.113 (EPOXY), REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.

H. ALL STEEL ON HM DOORS/FRAMES SHALL BE PAINTED INTERIOR PAINT TYPE #5.222 (EPOXY). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.

I. ALL GALVANIZED STEEL SHALL BE PAINTED INTERIOR PAINT TYPE #5.322 (EPOXY), REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.

J. ALL FERROUS METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.12.

K. ALL GALVANIZED METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.32.

L. ALL WOOD TRIM SHALL BE PAINTED INTERIOR PAINT TYPE #6.31.

M. ALL EXPOSED MECHANICAL INSULATION / PIPING SHALL BE PAINTED INTERIOR PAINT TYPE #10.11.

N. ALL WALLS ARE TO RECEIVE AN SEMI-GLOSS FINISH AND ALL CEILINGS/BULKHEADS ARE TO RECEIVE A FLAT FINISH.

PAINT COLOR GENERAL NOTES

A. ALL INTERIOR WALLS SHALL BE PAINTED P-1, UNLESS OTHERWISE INDICATED ON FINISH PLANS OR INTERIOR ELEVATIONS.

B. PAINT ALL PAINTED EXPOSED CEILINGS AND GYPSUM BOARD CEILINGS P-3 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.

C. PAINT ALL GWB SOFFITS P-1 UNLESS OTHERWISE NOTED ON FINISH PLANS OR INTERIOR ELEVATIONS.

D. PAINT ALL INTERIOR HOLLOW METAL FRAMES AND DOOR FRAMES P-4.

E. ALL EXTERIOR DOORS AND FRAMES SHALL BE PAINTED TO MATCH EXISTING.

EQUIPMENT MATERIALS

REFER TO A7 ARCH. DWG. SHEETS

HP PLASTIC LAMINATE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PL-1 (COUNTERS)	WILSONART	PEARL SOAPSTONE 4886-38
PL-2 (CABINETS)	WILSONART	CLASSIC LINEN 4943-38

KICKPLATES

STAINLESS STEEL

LOCKERS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
	REFER TO SPECIFICATIONS	STANDARD, TO BE SELECTED

MARKERBOARDS

WHITE / PROJECTABLE

TOILET PARTITIONS/COMPARTMENTS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
TPP-1	REFER TO SPECIFICATIONS	TO BE SELECTED
TPP-2 (B123)	REFER TO SPECIFICATIONS	TO BE SELECTED, FULL HEIGHT

ROLLER WINDOW SHADES

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RWS	REFER TO SPECIFICATIONS	OPAQUE, TO BE SELECTED FROM MANUF. STANDARDS

SHOWER CURTAINS

WHITE

CUBICLE CURTAINS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CC	ARCHITEX / RX1008	SOOTHE

TACKBOARDS

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
TB	REFER TO SPECIFICATIONS	TO BE SELECTED

WASH FOUNTAIN SOLID SURFACE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
LAV	REFER TO SPECIFICATIONS	ARCHITECT TO SELECT FROM MANUFACTURER'S FULL RANGE OF STANDARD AND DESIGNER COLORS

SOLID SURFACE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
SSM-1 (WALL CAP)	CORIAN	ARTISTA BEIGE
SSM-2 (WINDOW SILLS)	CORIAN	ARTISTA BEIGE

EQUIPMENT MATERIAL & FINISH GEN. NOTES

A. COLOR SELECTION OF ALL FINISHES FOR ARCHITECTURAL WOODWORK/CUSTOM CASEWORK ITEMS ARE NOTED ON CASEWORK ELEVATIONS.

B. EDUCATION CASEWORK FINISHES ARE AS FOLLOWS:

- HIGH PRESSURE PLASTIC LAMINATE COUNTERTOPS AND WORKSURFACES ARE TO BE PL-1, UNLESS OTHERWISE NOTED.
- HIGH PRESSURE PLASTIC LAMINATE CABINETS/VERTICAL SURFACES ARE TO BE PL-2, UNLESS OTHERWISE NOTED.
- INTERIOR MELAMINE TO BE WHITE.
- 3MM AND 1MM PVC EDGES ON COUNTERTOPS AND WORKSURFACES ARE TO MATCH PL-1.
- 3MM AND 1MM PVC EDGES ON CASEWORK ARE TO MATCH PL-2.
- HANDLES TO BE BRUSHED CHROME.
- HINGES TO BE BRUSH CHROME.
- SUBMIT SAMPLES OF GROMMETS FOR APPROVAL.
- SUBMIT SAMPLES OF TECHNOLOGY CABINET VENTS FOR APPROVAL.

C. ALL DOORS TO RECEIVE NEW INTERIOR AND EXTERIOR (WHERE APPLICABLE) ROOM SIGNAGE, PER ALLOWANCE.

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

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ZIONSVILLE COMMUNITY SCHOOLS

ARCHITECT

FANNING HOWEY

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KEY PLAN

CONSTRUCTION DOCUMENTS

DRAWN BY: MKH

PROJECT NUMBER: 223139.00

PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02.14.2024

LIST OF FINISHES

A8S.01

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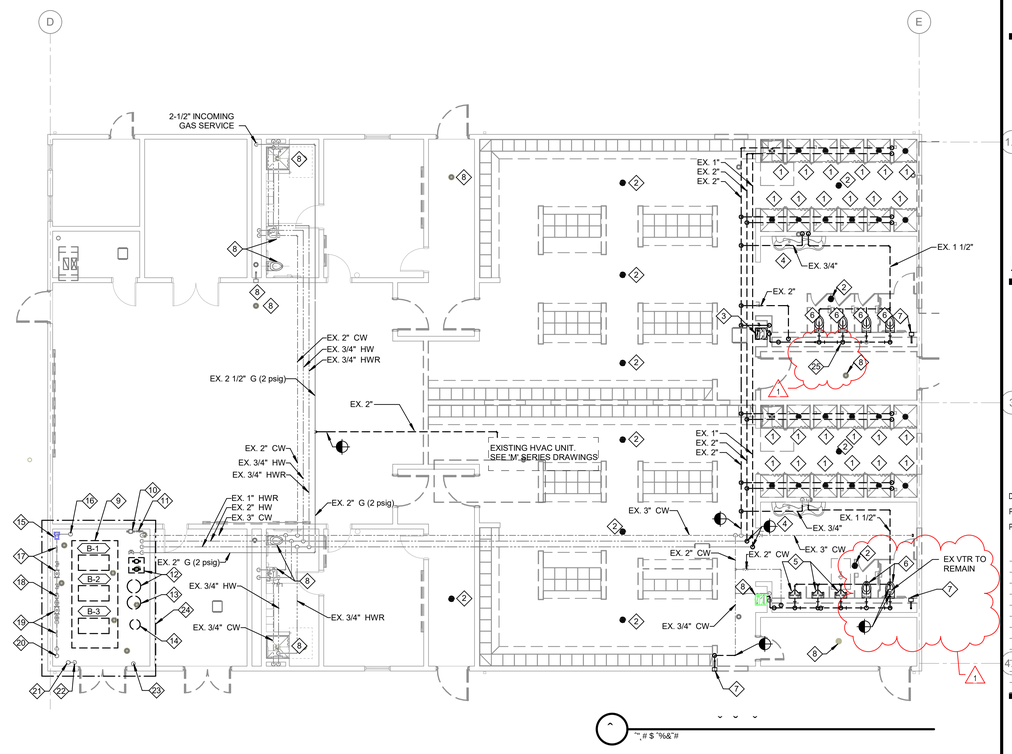
1 EXISTING SHOWER VALVE, SHOWER DRAIN AND ASSOCIATED PIPING TO BE REMOVED COMPLETE. CAP SHOWER DRAIN WASTE PIPING BELOW FINISHED FLOOR AND PATCH CONCRETE FLOOR.
2 EXISTING FLOOR DRAIN TO BE REMOVEDCOMPLETE. CAP WASTE PIPING BELOW FINISHED FLOOR AND PATCH CONCRETE FLOOR.
3 EXISTING WATER COOLER AND ASSOCIATED PIPING TO BE REMOVED COMPLETE. CAP WASTE PIPING BELOW FINISHED FLOOR AND PATCH CONCRETE FLOOR.
4 EXISTING WASHFOUNTAIN AND ASSOCIATED PIPING TO BE REMOVED COMPLETE. CAP WASTE PIPE BELOW FINISHED FLOOR AND PATCH CONCRETE FLOOR.
5 EXISTING URNIAL AND ASSOCIATED PIPING TO BE REMOVED COMPLETE.
6 EXISTING WATER CLOSET TO BE REMOVED COMPLETE.
7 EXISTING HOSE BIB TO BE REMOVED COMPLETE.
8 EXISTING FIXTURE/DRAIN TO REMAIN.
9 EXISTING WATER HEATER TO BE REMOVED COMPLETE. (1) 1,000 GALLON HORIZONTAL STORAGE TANK, (3) GAS-FIRED BOILERS AND ASSOCIATED PIPING.
10 EXISTING HOT WATER CIRCULATING PUMP TO REMAIN.
11 EXISTING THERMOSTATIC MIXING VALVE TO REMAIN.
12 EXISTING PRESSURE BOOSTER PUMP AND EXPANSION TANK TO REMAIN.
13 EXISTING HOT WATER EXPANSION TANK TO BE REMOVED COMPLETE.
14 EXISTING SIMPLEX WATER SOFTENER TO BE REMOVED COMPLETE.
15 EXISTING IRRIGATION BOOSTER PUMP TO REMAIN.
16 EXISTING IRRIGATION MAIN TO REMAIN.
17 EXISTING IRRIGATION WATER METER AND BACKFLOW PREVENTER TO REMAIN.
18 EXISTING 6" DOMESTIC WATER SERVICE TO REMAIN.
19 EXISTING DOMESTIC WATER METERS (2 STACKED) AND BACKFLOW PREVENTERS (2) TO REMAIN.
20 4" DOMESTIC COLD WATER MAIN TO REMAIN.
21 EXISTING 4" DOMESTIC COLD WATER SUPPLY TO ADJACENT BUILDING TO REMAIN.
22 EXISTING 1" DOMESTIC COLD WATER SUPPLY TO EXTERIOR HOSE BIBS TO REMAIN.
23 EXISTING 4" IRRIGARION SYSTEM SUPPLY TO REMAIN.
24 SEE DOMESTIC WATER PIPING SCHEMATIC ON DRAWING P502.
25 REMOVE EXISTING 3" VENT LINE THRU ROOF. PATCH HOLE IN ROOF TO RECEIVE NEW ROOFING.



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PROJECT LOCATION

EXISTING CONCESSIONS BUILDING

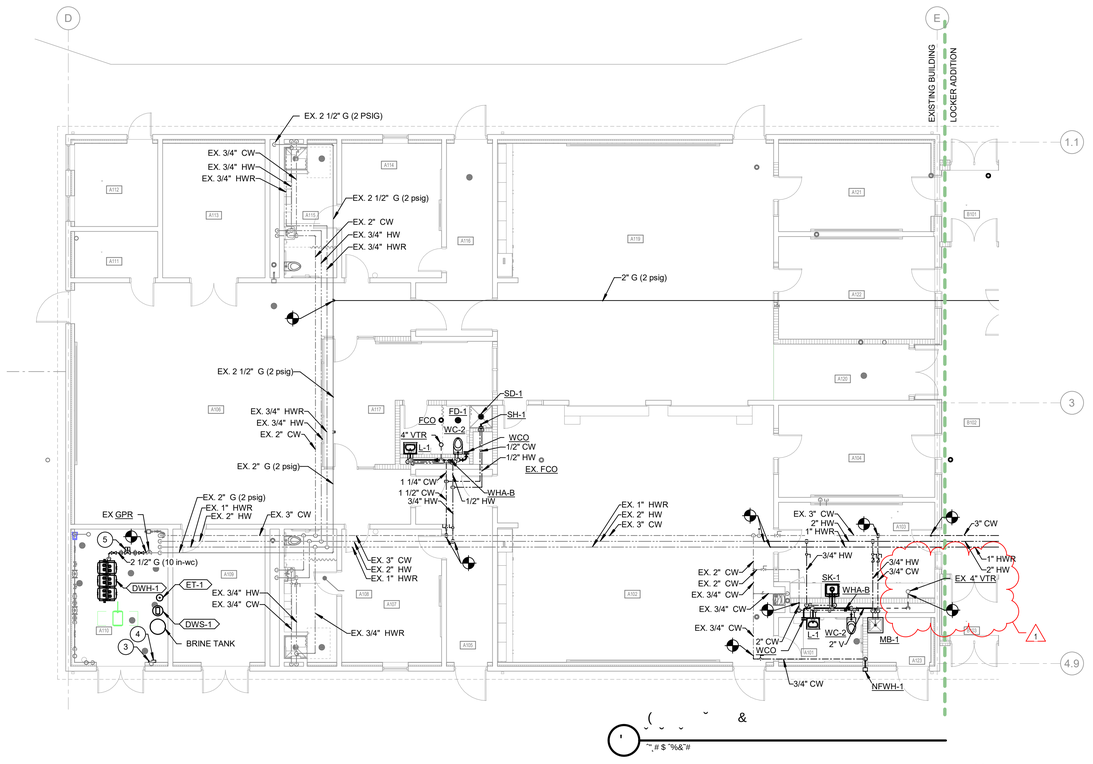
KEY PLAN

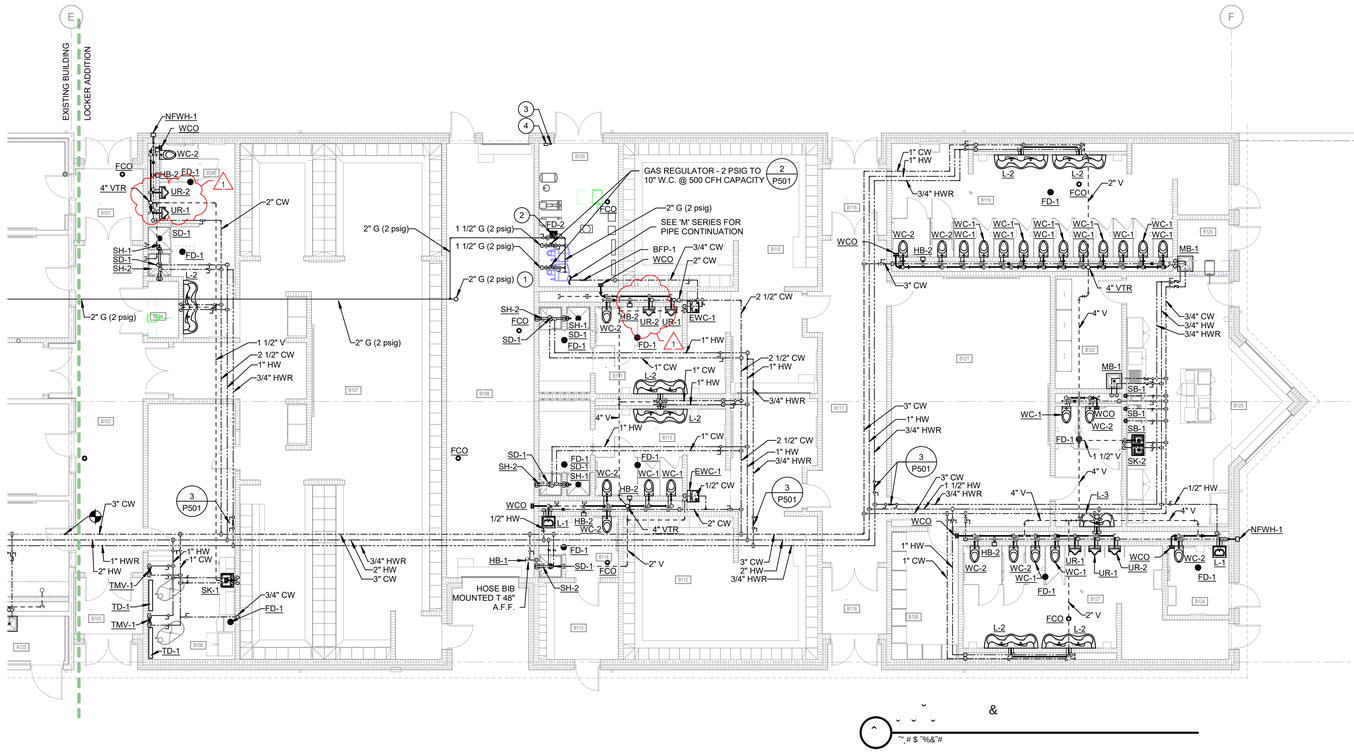
GABRIEL S. CURRIER REGISTERED NO. PE10808972 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: LP
PROJECT NUMBER: 223139.00
PROJECT ISSUE DATE: 01.22.2024

1	Addendum #1	02/14/2024

1 ROUTE A 2" PSI GAS LINE UP TO NEW ROOF TOP UNIT WITH SHUT OFF VALVE, UNION, GAS PRESSURE REGULATOR AND DIRT LEG. GAS PRESSURE REGULATOR TO BE CAPABLE OF RECEIVING 2 PSI SERVICE PRESSURE AND REGULATING DOWN TO 10" W.C. SUPPLYING 500,000 BTUH. LINE SIZE FROM REGULATOR TO RTU TO BE A 1" LINE
2 EMERGENCY GAS SHUT-OFF SOLENOID VALVE-2". (AGS; MERLIN 1064)
3 EMERGENCY GAS SHUT-OFF PANIC BUTTON. (AGS; #AGS-EGOTW)
4 EMERGENCY GAS SHUT-OFF MASTER CONTROL PANEL. (AGS; #AGSCH4CO)
5 EMERGENCY GAS SHUT-OFF SOLENOID VALVE-2". (AGS; MERLIN 1072)





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KEY PLAN

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DRAWN BY: LP
PROJECT NUMBER: 223139.00
PROJECT ISSUE DATE: 01.22.2024

1	Addendum #1	02/14/2024

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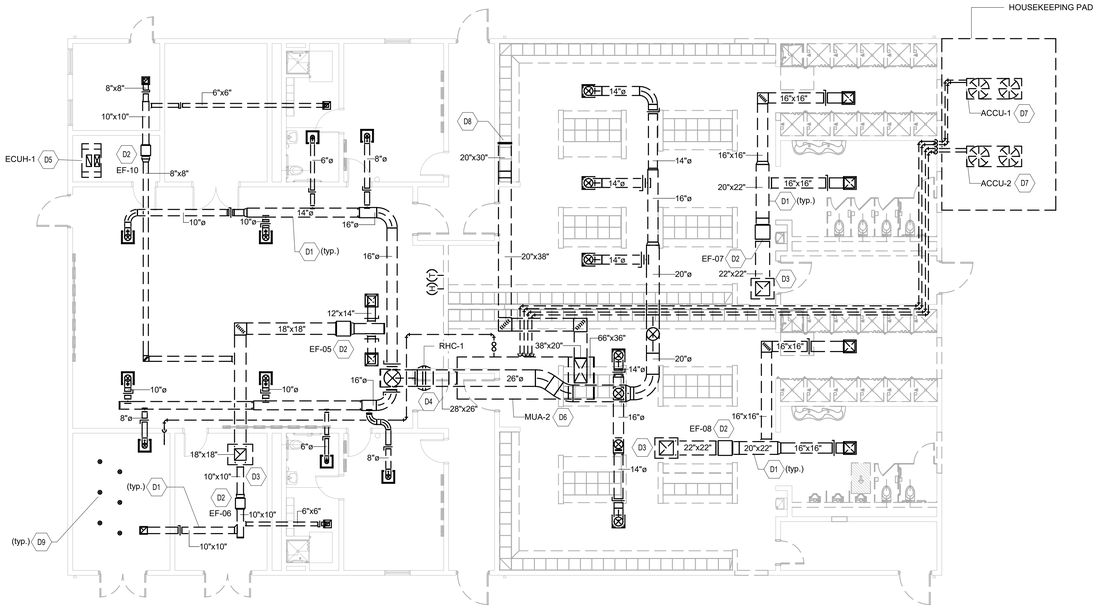

1 EXISTING LOCKER BUILDING - HVAC DEMOLITION PLAN

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

MECHANICAL DEMOLITION PLAN GENERAL NOTES

A. THE DIVISION 23 CONTRACTOR SHALL VISIT THE PROJECT AND DETERMINE THE EXACT EXTENT OF THE DEMOLITION WORK REQUIRED BEFORE BIDDING THE PROJECT.
B. WHERE BUILDING SURFACES ARE DAMAGED BY THE REMOVAL OF OLD WORK, SAME SHALL BE PATCHED TO MATCH THE ADJACENT SURFACES BY THIS CONTRACTOR.
C. EXISTING OPENINGS WHICH ARE TO BE REUSED SHALL NOT BE REMOVED AND SHALL BE MODIFIED OR ENLARGED AS NEED BE TO SUIT THE NEW SYSTEMS. PROVIDE ALL REQUIRED CUTTING AND PATCHING TO MATCH ADJACENT SURFACES.
D. IF ASBESTOS IS PRESENT CONTACT THE CONSTRUCTION MANAGER. IT WILL BE REMOVED OR RENDERED HARMLESS UNDER SEPERATE CONTRACT BY THE OWNER.
E. THE OWNER SHALL HAVE THE RIGHT TO CLAIM ANY MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEM OFF SITE. CONTRACTOR IS REQUIRED TO VERIFY THAT THE OWNER DOES NOT WANT TO CLAIM AN ITEM BEFORE DISPOSING THEM OFF SITE.
F. ALL FLOOR, WALL AND ROOF CUTTING WORK TO BE DONE BY DIVISION 23-HVAC CONTRACTOR UNLESS OTHERWISE NOTED. PATCH ALL FLOOR, WALL AND ROOF OPENINGS THAT ARE NOT REUSED TO MATCH ADJACENT CONSTRUCTION.
G. DIVISION 23 CONTRACTOR IS RESPONSIBLE TO REMOVE EXISTING CEILINGS TO DO WORK ABOVE THE CEILINGS AND REINSTALL THOSE CEILINGS AFTER COMPLETION OF WORK. IF ANY CEILING PADS OR GRIDS ARE DAMAGED, THIS CONTRACTOR SHALL REPLACE WITH NEW.

MECHANICAL DEMOLITION PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
D1	EXISTING DUCTWORK AND ASSOCIATED AIR DEVICES TO BE REMOVED. PATCH OPENING IN EXISTING GYPSUM CEILING TO MATCH ADJACENT CONSTRUCTION. PROVIDE INSULATION ABOVE PATCHED AREA TO MATCH INSULATION ABOVE ADJACENT AREA.
D2	EXHAUST FAN TO BE REMOVED COMPLETELY, INCLUDING ASSOCIATED DUCTWORK, AIR DEVICES, SUPPORTS, CONTROLS, ETC. DISPOSE OF ALL MATERIALS OFFSITE. COORDINATE ALL DISCONNECT REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO REMOVAL.
D3	ROOF VENTILATOR TO BE REMOVED COMPLETELY INCLUDING ASSOCIATED AIR DEVICES, SUPPORTS, ETC. DISPOSE OF ALL MATERIALS OFFSITE. PATCH EXISTING ROOF OPENINGS TO MATCH ADJACENT CONSTRUCTION, AND SEAL EXTERIOR PENETRATIONS WATER-TIGHT. MAINTAIN ANY EXISTING ROOF WARRANTY.
D4	REHEAT COIL TO BE REMOVED COMPLETELY INCLUDING ASSOCIATED DUCTWORK, AIR DEVICES, SUPPORTS, CONTROLS, ETC. DISPOSE OF ALL MATERIALS OFFSITE. COORDINATE ALL DISCONNECT REQUREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO REMOVAL.
D5	CABINET UNIT HEATER TO BE REMOVED COMPLETELY INCLUDING SUPPORTS, CONTROLS, ETC. DISPOSE OF ALL MATERIALS OFFSITE. COORDINATE ALL DISCONNECT REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO REMOVAL. PATCH OPENING IN EXISTING GYPSUM CEILING. PROVIDE INSULATION ABOVE PATCHED AREA TO MATCH INSULATION ABOVE ADJACENT AREA.
D6	MAKEUP AIR UNIT TO BE REMOVED COMPLETELY INCLUDING ASSOCIATED DUCTWORK, AIR DEVICES, SUPPORTS, FLUE/COMBUSTION PIPING, DRAIN PIPING, CONTROLS ETC. DISPOSE OF ALL MATERIALS OFFSITE. COORDINATE ALL DISCONNECT REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO REMOVAL.
D7	AIR COOLED CONDENSING UNIT TO BE REMOVED COMPLETELY INCLUDING ASSOCIATED PIPING, SUPPORTS, CONTROLS, ETC. DISPOSE OF ALL MATERIALS OFFSITE. COORDINATE ALL DISCONNECT REQUIREMENTS WITH ELECTRICAL CONTRACTOR PRIOR TO REMOVAL.
D8	EXISTING LOUVER TO BE REMOVED COMPLETELY INCLUDING ASSOCIATED SUPPORTS AND DUCTWORK. DISPOSE OF ALL MATERIALS OFFSITE.
D9	BOILER COMBUSTION AIR AND VENT PIPING TO BE REMOVED COMPLETELY. DISPOSE OF MATERIALS OFFSITE. PATCH OPENING IN EXISTING GYPSUM CEILING TO MATCH ADJACENT CONSTRUCTION. PROVIDE INSULATION ABOVE PATCHED AREA TO MATCH INSULATION ABOVE ADJACENT AREA. PATCH EXISTING ROOF OPENINGS TO MATCH ADJACENT CONSTRUCTION, AND SEAL EXTERIOR PENETRATIONS WATER-TIGHT. MAINTAIN ANY EXISTING ROOF WARRANTY.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

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CONSULTANT

PROJECT LOCATION

A B

EXISTING CONCESSIONS BUILDING

NORTH

KEY PLAN

CONSTRUCTION DOCUMENTS

TIMOTHY C. LEHMAN REGISTERED PE 19800147 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: KPR

PROJECT NUMBER: 223139.00

PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2.14.2024

EXISTING LOCKER BUILDING - HVAC DEMOLITION PLAN

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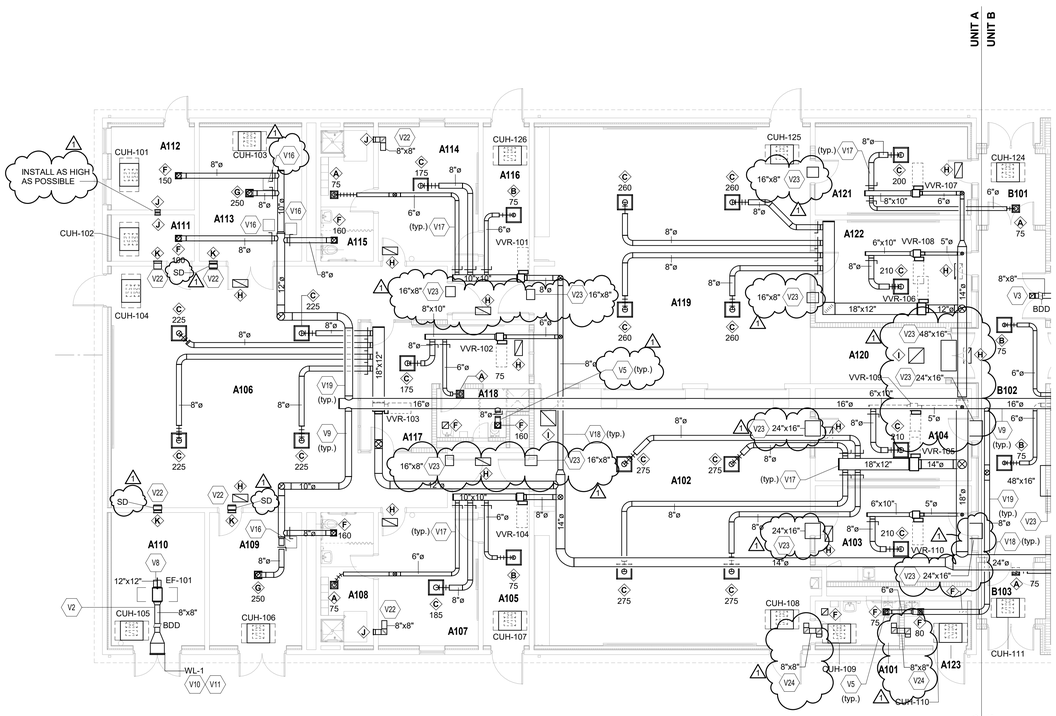
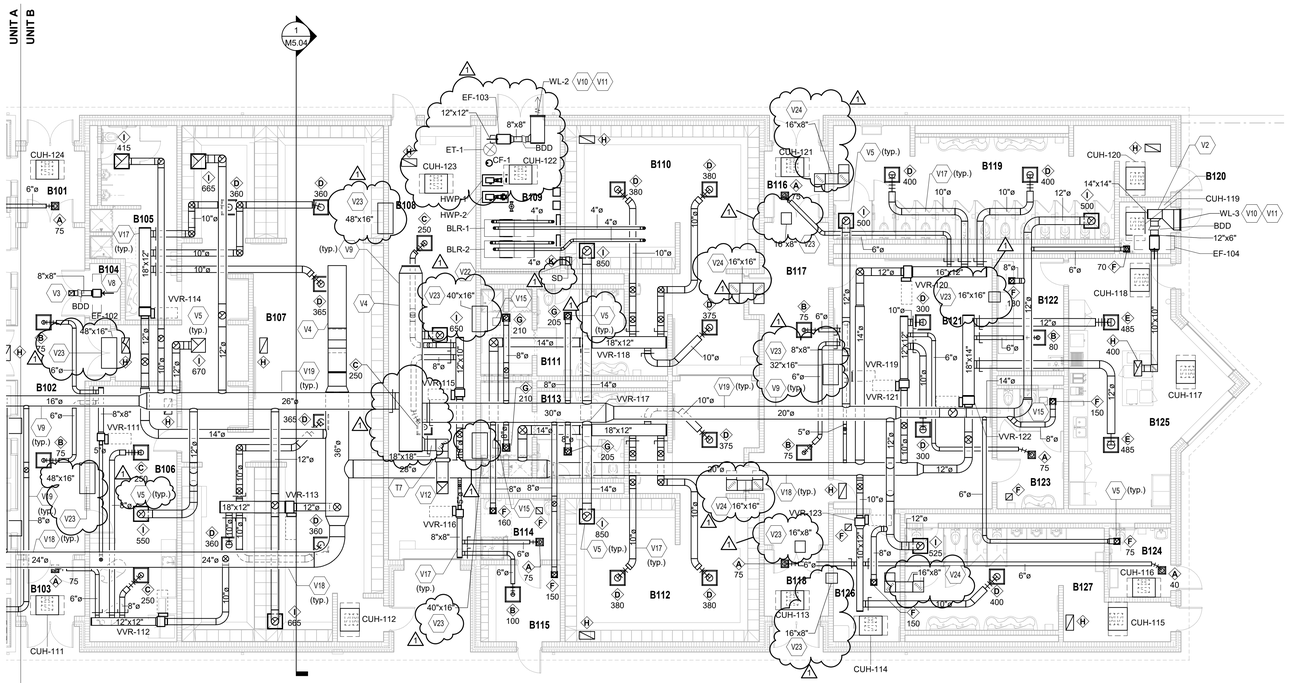


UNIT A - FIRST FLOOR VENTILATION PLAN

1

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



UNIT B - FIRST FLOOR VENTILATION PLAN

2

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

ROOM LEGEND - FIRST FLOOR UNIT A

ROOM NO.	ROOM NAME	AREA (SF)
A101	TOILET	64 SF
A102	TEAM ROOM	1212 SF
A103	SMALL TEAM ROOM / HOSPITALITY	252 SF
A104	SMALL TEAM ROOM	245 SF
A105	ENTRY	180 SF
A106	TEAM ROOM	1184 SF
A107	COACH	226 SF
A108	COACH RESTROOM	116 SF
A109	STORAGE	209 SF
A110	MECHANICAL	212 SF
A111	FIRE PROTECTION	66 SF
A112	CUSTODIAL / STORAGE	118 SF
A113	STORAGE	234 SF
A114	COACH	229 SF
A115	COACH RESTROOM	118 SF
A116	ENTRY	179 SF
A117	COACH	256 SF
A118	COACH RESTROOM	67 SF
A119	TEAM ROOM	1206 SF
A120	CORRIDOR	130 SF
A121	SMALL TEAM ROOM	229 SF
A122	SMALL TEAM ROOM	273 SF
A123	CUSTODIAL	48 SF
B101	VESTIBULE	82 SF
B102	CORRIDOR	424 SF
B103	VESTIBULE	65 SF
B104	IDF	29 SF
B105	SHOWERS / TOILETS	234 SF
B106	TRAINING ROOM	377 SF
B107	LOCKER ROOM	1353 SF
B108	STORAGE	646 SF
B109	MECHANICAL	194 SF
B110	LOCKER ROOM	613 SF
B111	SHOWERS / TOILETS	272 SF
B112	LOCKER ROOM	628 SF
B113	SHOWERS / TOILETS	281 SF
B114	OFFICIALS RESTROOM	82 SF
B115	OFFICIALS LOCKER	104 SF
B116	VESTIBULE	73 SF
B117	CORRIDOR	374 SF
B118	VESTIBULE	73 SF
B119	WOMEN'S RESTROOM	574 SF
B120	CUSTODIAL	45 SF
B121	COACHES OFFICE	676 SF
B122	STORAGE	128 SF
B123	COACHES RR	136 SF
B124	FAMILY RESTROOM	73 SF
B125	CONCESSIONS	507 SF
B126	STORAGE	145 SF
B127	MEN'S RESTROOM	396 SF

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
J. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
K. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
L. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
T7	CONTROL DAMPER LOCATED IN EXHAUST DUCTWORK. BALANCE TO 2030 CFM. DAMPER SHALL MODULATE BETWEEN 0-2030 CFM IN ORDER TO MAINTAIN A POSITIVE PRESSURE AT THE ROOFTOP UNIT.
V2	WRAP DUCTWORK WITH INSULATION FROM EXHAUST FAN(S) TO WALL LOUVER.
V3	EXHAUST DUCTWORK UP INTO ATTIC SPACE. COVER OPENING WITH 1/2" WIRE MESH.
V4	SEAL PENETRATIONS THROUGH THE EXTERIOR WALL WATER TIGHT.
V5	PROVIDE VOLUME DAMPER FOR EACH EXHAUST GRILLE IN THE ASSOCIATED VERTICAL DUCT DROP. DAMPER SHALL BE LOCATED IN THE INTERSTITIAL SPACE.
V8	COVER OPENING WITH 1/2" WIRE MESH.
V9	EXHAUST/RETURN DUCTWORK ASSOCIATED WITH RTU-A101 SHALL BE OF ALUMINUM OR STAINLESS STEEL CONSTRUCTION. LINER AND FLEX DUCTWORK ARE NOT PERMITTED. AIR DEVICE SHALL BE OF STAINLESS STEEL CONSTRUCTION.
V10	INSTALL DRIP PAN UNDER WALL LOUVER. PAN SHALL BE SEALED WATER TIGHT. DRIP PAN TO EXTEND A MINIMUM OF 8" BEYOND DUCTWORK. REFER TO DETAIL ON SHEET M5.02.
V11	INSULATED SHEET METAL PLENUM MOUNTED BEHIND WALL LOUVER. TRANSITION BOTTOM OF DUCT AT A SLOPE DOWNWARD TO WALL LOUVER. SEAL ALL SEAMS AND EDGES WATER TIGHT. WRAP PLENUM IN INSULATION.
V12	STUB EXHAUST BRANCH INTO INTERSTITIAL SPACE, AND COVER WITH 1/2" WIRE MESH.
V15	PROVIDE 12"x12" ACCESS PANEL IN GYPSUM CEILING AT LOCATION SHOWN.
V16	PROVIDE 16"x18" ACCESS PANEL IN GYPSUM CAP AT LOCATION SHOWN.
V17	LOW PRESSURE SUPPLY DUCTWORK SHALL RUN IN THE INTERSTITIAL SPACE. SEE SECTION 1 ON SHEET M5.04.
V18	MEDIUM PRESSURE SUPPLY DUCTWORK SHALL RUN IN THE ATTIC SPACE. WHEN SHOWN, EXTEND INLET DUCT TO VAV DOWN INTO THE INTERSTITIAL SPACE. SEE SECTION 1 ON SHEET M5.04.
V19	EXHAUST/RETURN DUCTWORK SHALL RUN IN THE ATTIC SPACE. SEE SECTION 1 ON SHEET M5.04.
V22	PROVIDE WALL MOUNTED TRANSER. LOCATE AT HEIGHT SUCH THAT DUCTWORK IS LOCATED ABOVE ADJACENT CEILING.
V23	PROVIDE AIR TRANSFER OPENING ABOVE CEILING AT LOCATION INDICATED. SEE PLANS FOR SIZE.
V24	PROVIDE LINED AIR TRANSFER SOUND TRAP ABOVE CEILING AT LOCATION INDICATED. SEE PLANS FOR SIZE.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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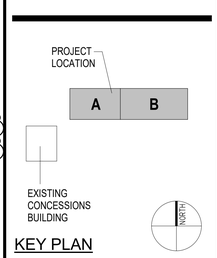

KEY PLAN

CONSTRUCTION DOCUMENTS

DRAWN BY: KPR

PROJECT NUMBER: 223139.00

PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2.14.2024

FIRST FLOOR VENTILATION PLAN

M2.01

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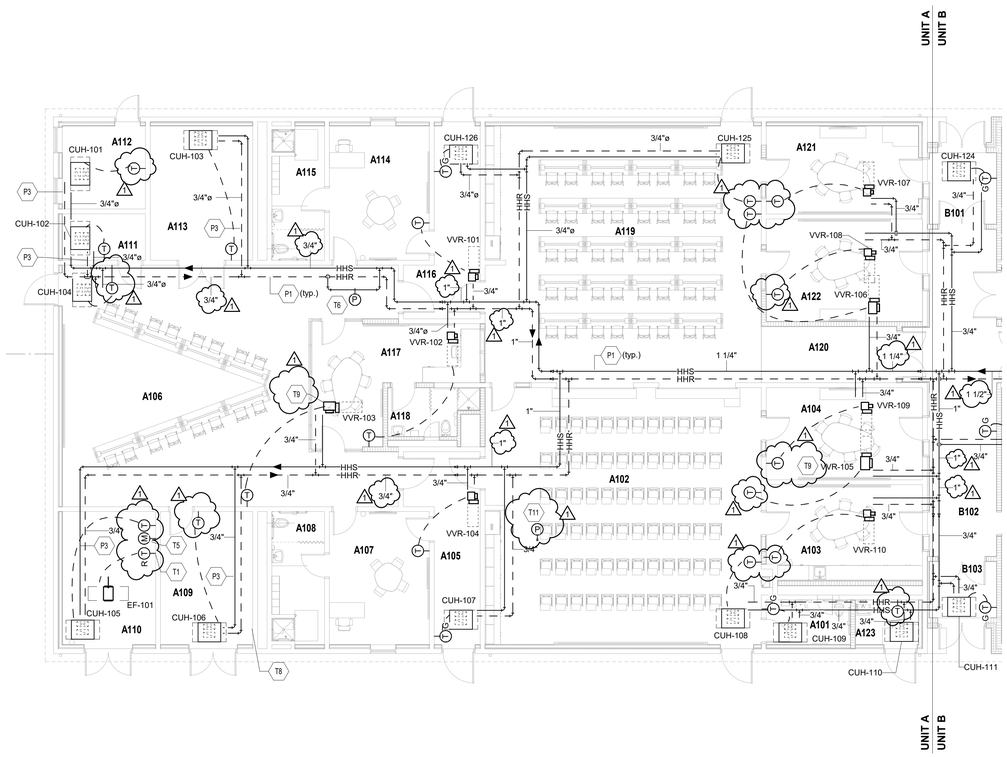
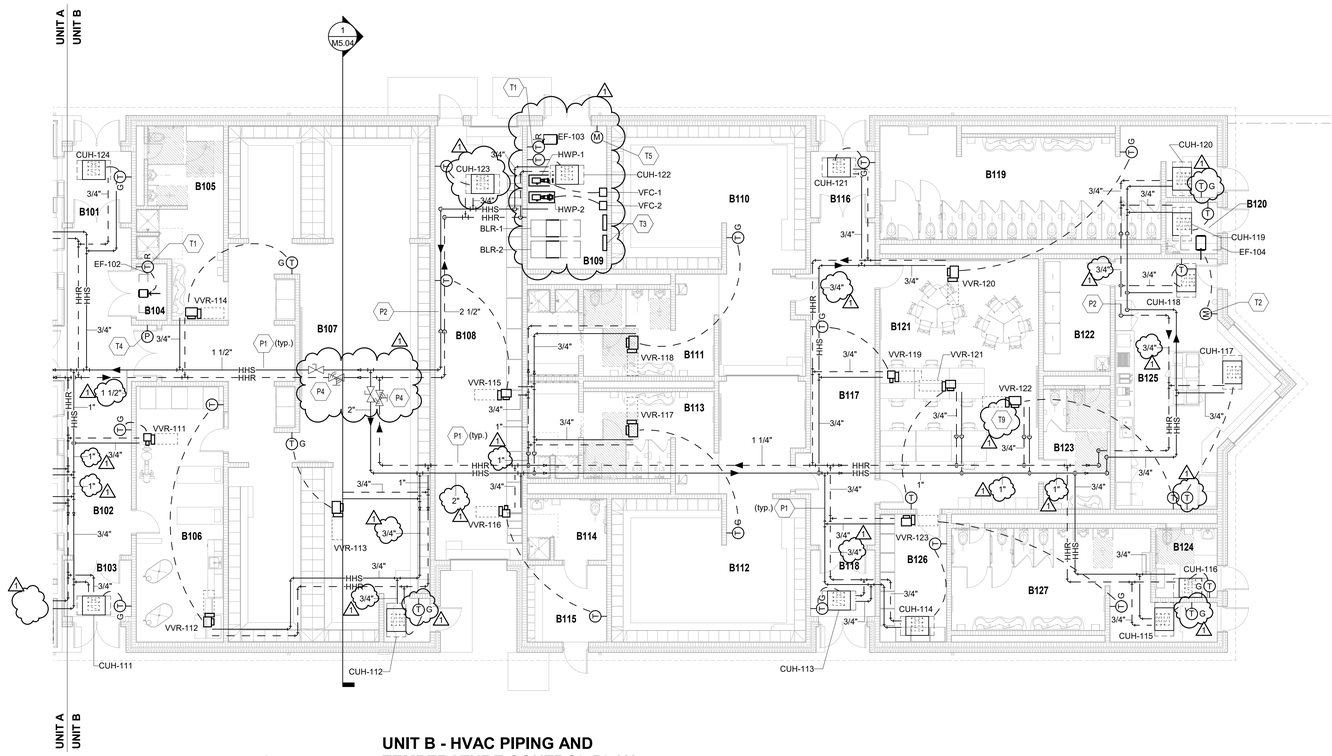


UNIT A - HVAC PIPING AND TEMPERATURE CONTROL PLAN

1

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



UNIT B - HVAC PIPING AND TEMPERATURE CONTROL PLAN

2

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

ROOM LEGEND - FIRST FLOOR UNIT A

ROOM NO.	ROOM NAME	AREA (SF)
A101	TOILET	64 SF
A102	TEAM ROOM	1212 SF
A103	SMALL TEAM ROOM / HOSPITALITY	252 SF
A104	SMALL TEAM ROOM	245 SF
A105	ENTRY	180 SF
A106	TEAM ROOM	1184 SF
A107	COACH	226 SF
A108	COACH RESTROOM	116 SF
A109	STORAGE	209 SF
A110	MECHANICAL	212 SF
A111	FIRE PROTECTION	66 SF
A112	CUSTODIAL / STORAGE	118 SF
A113	STORAGE	234 SF
A114	COACH	229 SF
A115	COACH RESTROOM	118 SF
A116	ENTRY	179 SF
A117	COACH	256 SF
A118	COACH RESTROOM	67 SF
A119	TEAM ROOM	1206 SF
A120	CORRIDOR	130 SF
A121	SMALL TEAM ROOM	229 SF
A122	SMALL TEAM ROOM	273 SF
A123	CUSTODIAL	48 SF
B101	VESTIBULE	82 SF
B102	CORRIDOR	424 SF
B103	VESTIBULE	65 SF
B104	IDF	29 SF
B105	SHOWERS / TOILETS	234 SF
B106	TRAINING ROOM	377 SF
B107	LOCKER ROOM	1353 SF
B108	STORAGE	646 SF
B109	MECHANICAL	194 SF
B110	LOCKER ROOM	613 SF
B111	SHOWERS / TOILETS	272 SF
B112	LOCKER ROOM	628 SF
B113	SHOWERS / TOILETS	281 SF
B114	OFFICIALS RESTROOM	82 SF
B115	OFFICIALS LOCKER	104 SF
B116	VESTIBULE	73 SF
B117	CORRIDOR	374 SF
B118	VESTIBULE	73 SF
B119	WOMEN'S RESTROOM	574 SF
B120	CUSTODIAL	45 SF
B121	COACHES OFFICE	676 SF
B122	STORAGE	128 SF
B123	COACHES RR	136 SF
B124	FAMILY RESTROOM	73 SF
B125	CONCESSIONS	507 SF
B126	STORAGE	145 SF
B127	MEN'S RESTROOM	396 SF

HVAC PIPING PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OPSTRUCTIONS.
D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
E. HYDRONIC SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.

TEMPERATURE CONTROL PLAN GENERAL NOTES

A. ALL THERMOSTAT/SENSORS TO BE MOUNTED WITH BOTTOM AT 44" AFF UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH ALL TRADES.
B. WHEN (2) OR MORE SENSORS ARE LOCATED IN THE SAME AREA, PROVIDE BETWEEN 2" AND 4" OF SPACING BETWEEN EACH DEVICE, NO MORE, NO LESS.
C. REFER TO SECTIONS 230900 AND 230993 FOR TEMPERATURE CONTROL SPECIFICATIONS AND SEQUENCE OF OPERATIONS.
D. TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE INTERCONNECTING WIRING BETWEEN VARIABLE FREQUENCY CONTROLLER AND EQUIPMENT.

HVAC PIPING AND TEMPERATURE CONTROL PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
P1	PIPING SHALL RUN IN THE INTERSTITIAL SPACE.
P2	PIPING SHALL BE ROUTED INTO ATTIC SPACE AT LOCATION SHOWN, AND ROUTED BACK INTO INTERSTITIAL SPACE WHEN SHOWN.
P3	EXPOSED PIPING/PIPING INSULATION TO BE PAINTED PER COLOR SELECTED BY ARCHITECT/ENGINEER.
P4	PROVIDE SHUT-OFF VALVE IN THE SUPPLY PIPING, AND BALANCING VALVE IN THE RETURN PIPING AT LOCATION SHOWN.
T1	REVERSE ACTING THERMOSTAT TO CONTROL EXHAUST FAN. TEMPERATURE SETPOINT TO BE 85°F.
T2	TIMER SWITCH, PROVIDE BY DIVISION 26, TO CONTROL EXHAUST FAN.
T3	APPROXIMATE LOCATION OF TEMPERATURE CONTROL PANEL. COORDINATE FINAL LOCATION WITH ALL TRADES. COORDINATE WITH TECHNOLOGY CONTRACTOR TO PROVIDE DATA DROPS FOR EACH PANEL.
T4	APPROXIMATE LOCATION OF BUILDING PRESSURE SENSOR PROVIDED BY ROOFTOP UNIT MANUFACTURER.
T5	TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE CARBON MONOXIDE DETECTOR. REFER TO PROJECT MANUAL. COORDINATE EXACT LOCATION WITH ALL TRADES.
T6	APPROXIMATE LOCATION OF DIFFERENTIAL PRESSURE TRANSMITTER FOR HEATING WATER VARIABLE PUMP CONTROL. TRANSMITTER PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY HVAC CONTRACTOR.
T8	APPROXIMATE LOCATION OF CONTACTORS PROVIDED BY ELECTRICAL CONTRACTOR FOR EXTERIOR BUILDING LIGHTING. TEMPERATURE CONTROL CONTRACTOR SHALL WIRE LOW-VOLTAGE WIRING TO THE TEMPERATURE CONTROL SYSTEM. COORDINATE EXACT LOCATION AND QUANTITY WITH ELECTRICAL CONTRACTOR. REFER TO TEMPERATURE CONTROL SPECIFICATION.
T9	UNIT SHALL BE PROVIDED WITH 3-WAY VALVE.
T11	APPROXIMATE LOCATION OF DUCT DIFFERENTIAL PRESSURE SENSOR. PROVIDE 18"x18" ACCESSS PANEL IN GYPSUM CAP LOCATED ABOVE LAY-IN CEILING.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

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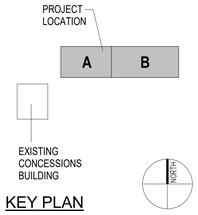

KEY PLAN

CONSTRUCTION DOCUMENTS

TIMOTHY C. LEHMAN REGISTERED No. PE 19800147 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: KPR

PROJECT NUMBER: 223139.00

PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2.14.2024

HVAC PIPING AND TEMPERATURE CONTROL PLAN

M3.01

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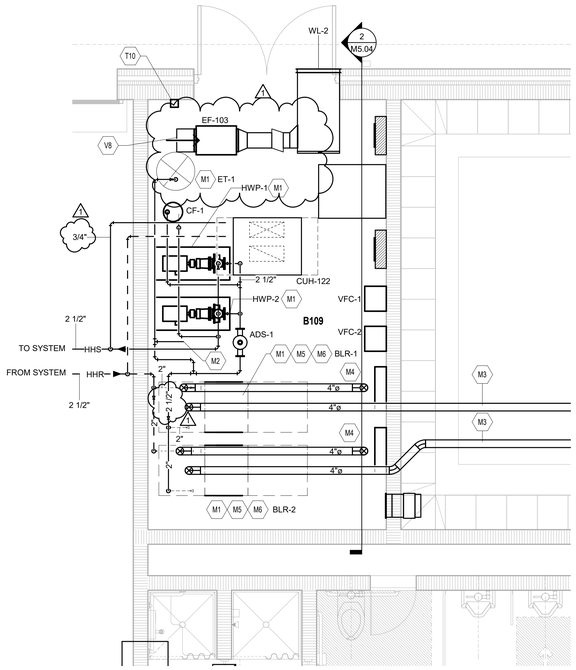
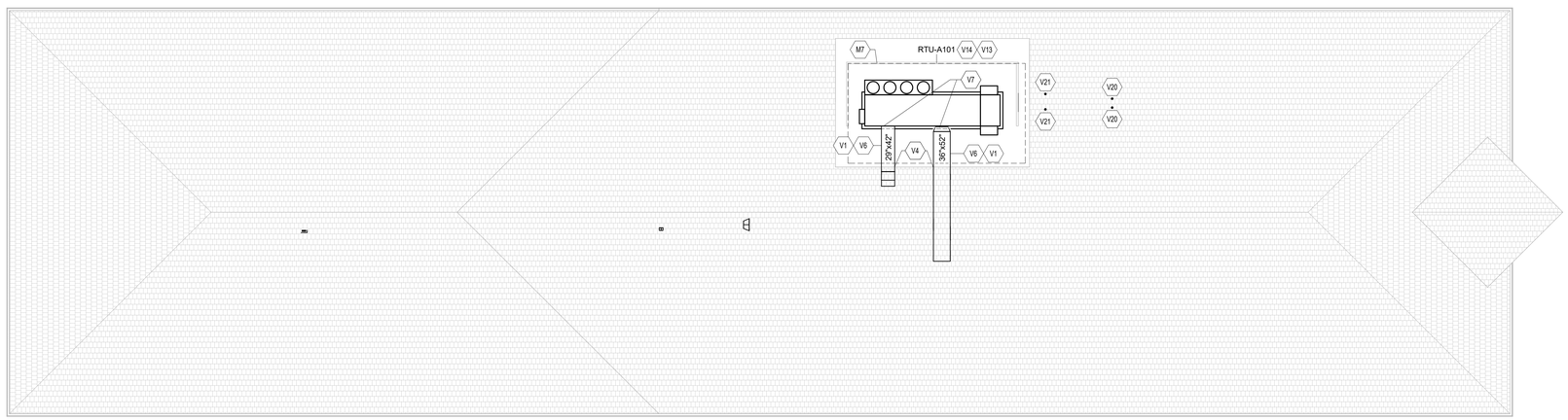


1 MECHANICAL ROOM PLAN

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



2 MECHANICAL ROOF PLAN

SCALE: 3/32" = 1'-0"

MECHANICAL ROOM PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
I. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
J. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
K. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
L. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.
M. HYDRONIC SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.

MECHANICAL ROOM PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
M1	INSTALL EQUIPMENT ON 3-1/2" HIGH CONCRETE HOUSEKEEPING PAD. COORDINATE FINAL SIZE OF PAD ON SITE.
M2	CONNECTION POINT FOR MAKE-UP TO HEATING WATER SYSTEM. REFER TO DETAIL SHEET.
M3	FLUE PIPE SYSTEM FROM BOILER CONNECTION ROUTED UP ATTIC SPACE AND OUT THROUGH THE ROOF. FLUE PIPE SIZE AND INSTALLATION PER MANUFACTURER'S REQUIREMENTS. PROVIDE FIRE WRAPPING BETWEEN GYP CEILING AND EXTERIOR PENETRATION.
M4	SINGLE WALL STAINLESS STEEL INTAKE PIPE FROM THE BOILER CONNECTION TERMINATED THROUGH THE ROOF. INTAKE PIPE SIZE AND INSTALLATION PER MANUFACTURER'S REQUIREMENTS. PROVIDE FIRE WRAPPING BETWEEN GYP CEILING AND EXTERIOR PENETRATION.
M5	PRESSURE RELIEF VALVE. REFER TO BOILER MANUFACTURER FOR RECOMMENDED LOCATION. PIPE FULL SIZE TO FLOOR DRAIN. SUPPORT PIPING INDEPENDENTLY OF VALVE TO PREVENT STRESS AND ALLOW PROPER OPERATION.
M6	DRAIN PIPING WITH SHUT-OFF VALVE FROM BOILER TO FLOOR DRAIN. PIPE FULL SIZE TO FLOOR DRAIN.
M7	MANUFACTURER'S REQUIRED SERVICE CLEARANCE AROUND UNIT.
T10	APPROXIMATE LOCATION OF BOILER SHUT DOWN SWITCH PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR. COORDINATE WITH ELECTRICAL CONTRACTOR.
V1	EXTERIOR DUCTWORK TO BE INSULATED AND WRAPPED WITH JACKET PER SPECIFICATIONS.
V4	SEAL PENETRATIONS THROUGH THE EXTERIOR WALL WATER-TIGHT.
V6	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HIRE AND DELEGATE THE DESIGN OF THE EXTERIOR DUCTWORK SUPPORTS TO AN ENGINEER. THIS SHALL BE DONE FOR ALL EXTERIOR DUCTWORK SYSTEMS. IT IS RECOMMENDED THAT SUPPORTS BE PLACED WITHIN 2' OF EACH ELBOW, 6' ON CENTER FOR STRAIGHT RUNS, AND FOR DUCTWORK EXTENDING VERTICALLY. HOWEVER, IT IS THE RESPONSIBILITY OF THE DELEGATED DESIGNER TO PROVIDE SUPPORTS AND FOUNDATION AS NECESSARY TO ENSURE THE DUCTWORK IS PROPERLY SUPPORTED AND ANCHORED. APPROXIMATE LOCATIONS ARE SHOWN, BUT ARE SUBJECT TO CHANGE BASED ON THE DESIGN COMPLETED BY THE ENGINEER HIRED BY THE CONTRACTOR. COORDINATE FINAL LOCATIONS OF SUPPORTS WITH ALL OTHER TRADES.
V7	CONNECT DUCTWORK TO UNIT USING FLEXIBLE CONNECTORS.
V8	COVER OPENING WITH 1/2" WIRE MESH.
V13	ROUTE CONDENSATE DRAIN TO ADJACENT ROOF. SUPPORT PIPING AS NECESSARY. SEE CONDENSATE PIPING DETAIL ON SHEET M5.02. SIZE PER MANUFACTURERS RECOMMENDATIONS.
V14	MOUNT UNIT ON 14" ROOF CURB PROVIDED BY UNIT MANUFACTURER.
V20	4" FLUE PIPE FOR BOILER UP THRU ROOF. SEE DETAIL SHEET.
V21	4" INTAKE PIPE FOR BOILER UP THRU ROOF. SEE DETAIL SHEET.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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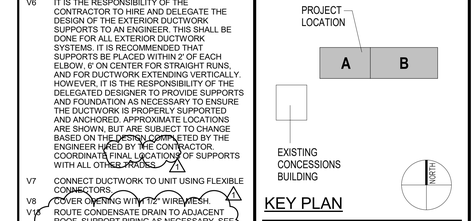


KEY PLAN

CONSTRUCTION DOCUMENTS

DRAWN BY: KPR

PROJECT NUMBER: 223139.00

PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2.14.2024

MECHANICAL ROOM AND ROOF PLAN

M4.01

RTU/HEAT RECOVERY UNIT SCHEDULE

MARK	NOM. TON	FANS SUPPLY CFM	SUPPLY O.A. CFM	SUPPLY EXT. S.P.	SUPPLY TOTAL S.P.	SUPPLY HP	SUPPLY TYPE	EXHAUST/RELIEF CFM	EXHAUST/RELIEF EXT. S.P.	EXHAUST/RELIEF TOTAL S.P.	EXHAUST/RELIEF HP	EXHAUST/RELIEF TYPE	HEAT WHEEL SUPPLY CFM IN	SUPPLY CFM OUT	SUPPLY SUMMER EAT	SUPPLY SUMMER LAT	SUPPLY WINTER EAT	SUPPLY WINTER LAT	HEAT WHEEL EXHAUST CFM IN	EXHAUST CFM OUT	EXHAUST SUMMER EAT	EXHAUST SUMMER LAT	EXHAUST WINTER EAT	EXHAUST WINTER LAT	HEAT WHEEL APD	HEAT WHEEL H.P.	COOLING EER/IEER	COILS DX COOLING COIL EAT	DX COOLING COIL LAT	GAS FIRED HEATING COIL COOLING LOAD SENS.	GAS FIRED HEATING COIL COOLING LOAD TOTAL	GAS FIRED HEATING COIL APD	GAS FIRED HEATING COIL EAT	GAS FIRED HEATING COIL LAT	GAS FIRED HEATING COIL INPUT (MBH)	GAS FIRED HEATING COIL OUPUT (MBH)	GAS FIRED HEATING COIL APD	STAGES	UNIT ELECTRIC VOLTAGE	UNIT ELECTRIC FLA	UNIT ELECTRIC MCA	UNIT ELECTRIC MAX FUSE	UNIT ELECTRIC SCCR	WEIGHT	MODEL NUMBER	BRAND	NOTES
RTU-A101	60	12,600	12,600	2.0	5.27	2x15	-	12,455	1.25	2.63	2x5	-	13,085	12,600	90.4 / 74.1	79.7 / 68.4	-1.0 / -2.0	48.8 / 39.8	11,970	12,455	75.0 / 62.4	86.0 / 69.1	70.0 / 58.0	29.6 / 29.4	1.04	.25	10.0	79.7 / 68.3	50.6 / 50.2	331.5	617.2	0.52	48.8	79.4	500	405	0.46	10:1	460-3-60	169.3	176	200	65K	9,064	OAND720D4	TRANE	RTU-A101 NOTES

NOTES: RTU-A101

1. FURNISH WITH MODULATING HOT GAS REHEAT AND HUMIDITY SENSOR FOR HUMIDITY CONTROL
2. FURNISH WITH DIGITAL SCROLL COMPRESSORS FOR MODULATING COOLING.
3. FURNISH WITH BACNET CARD FOR INTEGRATION INTO BAS.
4. VARIABLE FREQUENCY CONTROLLER (VFC) SHALL BE PROVIDED ON SUPPLY FAN AND EXHAUST FAN. VFC PROVIDED BY RTU MANUFACTURER.
5. PROVIDE FACTORY MOUNTED 2 POSITION OUTDOOR AND RETURN AIR DAMPERS FOR BYPASS AROUND THE WHEEL DURING UNOCCUPIED MODE.
6. UNIT SHALL BE EQUIPPED WITH CLOGGED FILTER SWITCH.
7. PROVIDE FACTORY MOUNTED CONVENIENCE OUTLET.
8. FURNISH WITH 2" MERV 8 PRE-FILTERS AND 4" MERV 13 FILTERS.
9. TOTAL UNIT STATIC PRESSURE REFLECTS AVERAGE DIRTY FILTERS.
10. UNIT SHALL BE PLACED ON 14" ROOF CURB.
11. UNIT TO BE SUPPLIED WITH FACTORY MOUNTED DISCONNECT SWITCH.
12. UNIT MANUFACTURER TO PROVIDE SHORT CIRCUIT PROTECTION. SEE "SCCR" UNDER ELECTRICAL COLUMN IN SCHEDULE FOR RATING.
13. FURNISH UNIT WITH EXHAUST ISOLATION DAMPERS.
14. MAXIMUM FILTER FACE VELOCITY SHALL BE 500 FPM.
15. MAXIMUM COIL FACE VELOCITY SHALL BE 500 FPM.
16. UNIT SHALL HAVE BYPASS DAMPERS AROUND WHEEL FOR FROST CONTROL.
17. UNIT SHALL HAVE SINGLE POINT POWER CONNECTION.
18. REFER TO SPECIFICATIONS.
19. UNIT SHALL BE FURNISHED WITH MULTI-ZONE VAV CONTROL CAPABILITY. FURNISH WITH STATIC PRESSURE SENSOR.
20. FURNISH WITH AIRFLOW MONITORING RING.
21. DISCHARGE TEMPERATURE SHALL BE SET TO 55°

SUMMER:
INDOOR: 75° db/50% RH
OUTDOOR: 90.4° db/74.1° wb
WINTER:
INDOOR: 70.0° db
OUTDOOR: -1.0° db

HYDRONIC EXPANSION TANK SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	VOLUME	TANK SIZE DIA	TANK SIZE LENGTH	WEIGHT (LBS)	NOTES
ET-1	TACO	CA90-125	HEATING WATER	23.0 gal	20"	29"	120	1,2

NOTES:
1 MOUNT ON 3-1/2" CONCRETE HOUSEKEEPING PAD
2 REFER TO PROJECT MANUAL.
3 MANUFACTURED IN ACCORDANCE WITH ASME VIII

WALL LOUVER SCHEDULE

MARK	SIZE WxH	FLOW	PRESSURE DROP	BOTTOM ELEVATION	TYPE	SYSTEM	MODEL	NOTES
WL-1	22"x8"	250	0.17 in-wg	10'-0"	WL-1	EXHAUST	EHH-401	1,2,3,4,5,6
WL-2	22"x8"	250	0.17 in-wg	10'-0"	WL-1	EXHAUST	EHH-401	1,2,3,4,5,6
WL-3	32"x8"	400	0.18 in-wg	10'-0"	WL-1	EXHAUST	EHH-401	1,2,3,4,5,6

NOTE:
1 REFER TO PROJECT MANUAL SECTION 089119.
2 SEAL ALL AROUND WITH SILICONE.
3 REFER TO INSTALLATION DETAILS ON MECHANICAL AND ARCHITECTURAL DRAWINGS.
4 CUSTOM COLOR AS SELECTED BY ARCHITECT/ENGINEER. REFER TO SECTION 089119.
5 COORDINATE SIZE AND LOCATION WITH ALL TRADES.
6 N/A

EXHAUST FAN SCHEDULE

MARK	Manufacturer	Model	Description	Air Flow	External SP	Fan RPM	Inlet Sones	Drive Type	Motor Size	BHP	Voltage	Operating Frequency	Phase Number	Fan Control	Comments
EF-101	Greenheck	SQ-98-VG	Direct Drive Centrifugal Inline Fan	250	0.350 in-wg	1095	7.6	Direct	0.250 hp	0.05 hp	115 V	60 Hz	1	A	1,2,3,4,5,6
EF-102	Greenheck	SQ-70-VG	Direct Drive Centrifugal Inline Fan	150	0.175 in-wg	1283	2.8	Direct	0.067 hp	0.02 hp	115 V	60 Hz	1	A	1,2,3,4,5,6
EF-103	Greenheck	SQ-98-VG	Direct Drive Centrifugal Inline Fan	250	0.350 in-wg	1095	7.6	Direct	0.250 hp	0.05 hp	115 V	60 Hz	1	A	1,2,3,4,5,6
EF-104	Greenheck	SQ-99-VG	Direct Drive Centrifugal Inline Fan	400	0.475 in-wg	1253	8.7	Direct	0.250 hp	0.09 hp	115 V	60 Hz	1	D	1,2,3,4,5,6

NOTE:
1 FURNISH WITH FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
2 FURNISH WITH VG MOTOR FOR FAN SPEED CONTROL, WITH DIAL ON FAN.
3 REFER TO SPECIFICATION SECTION 233423 FOR ADDITIONAL REQUIREMENTS.
4 ALL FAN MODELS SPECIFIED AS MANUFACTURED BY GREENHECK.
5 SUPPORT FROM STRUCTURE ABOVE WITH THREADED ROD AND VIBRATION ISOLATORS.
6 FURNISH WITH BACKDRAFT DAMPER.

KEY:
A AUTOMATIC OPERATION BY REVERSE ACTING THERMOSTAT.
D TIMER SWITCH BY DIVISION 26.

DIFFUSER, REGISTER AND GRILLE SCHEDULE

MARK	TYPE	EXAMPLE MANUFACTURER MODEL NO.	NECK SIZE (IN)	DIFFUSER SIZE LxW (IN)	MAX CORE/NECK VEL.(FPM)	MAX CFM	MAX NC	FRAME/MOUNTING	REMARKS
A	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	6"Ø	12"x12"	800	125	20	REFER TO REFLECTED CEILING PLAN	1,2
B	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	6"Ø	24"x24"	800	125	20	REFER TO REFLECTED CEILING PLAN	1,2
C	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	8"Ø	24"x24"	800	280	20	REFER TO REFLECTED CEILING PLAN	1,2
D	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	10"Ø	24"x24"	800	430	20	REFER TO REFLECTED CEILING PLAN	1,2
E	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	12"Ø	24"x24"	800	620	23	REFER TO REFLECTED CEILING PLAN	1,2
F	CEILING RETURN/TRANSFER/EXHAUST AIR GRILLE	TITUS 350FL	8"x8"	10"x10"	500	185	15	REFER TO REFLECTED CEILING PLAN	1,3,4
G	CEILING RETURN/TRANSFER/EXHAUST AIR GRILLE	TITUS 355FL	10"x10"	12"x12"	500	295	15	REFER TO REFLECTED CEILING PLAN	1,3,4
H	CEILING RETURN/TRANSFER/EXHAUST AIR GRILLE	TITUS 355FL	22"x10"	24"x12"	500	685	16	REFER TO REFLECTED CEILING PLAN	1,3,4
I	CEILING RETURN/TRANSFER/EXHAUST AIR GRILLE	TITUS 355FL	22"x22"	24"x24"	500	1570	19	REFER TO REFLECTED CEILING PLAN	1,3,4
J	SIDEWALL TRANSFER GRILLE	TITUS 355FL	8"x8"	10"x10"	500	185	15	SIDEWALL	1,3,4
K	SIDEWALL TRANSFER GRILLE	TITUS 355FL	12"x8"	14"x10"	500	285	15	SIDEWALL	1,3,4

NOTE:
1 COLOR BY ARCHITECT/ENGINEER.
2 4-WAY BLOW DIFFUSERS UNLESS INDICATED OTHERWISE ON DRAWINGS
3 BLADES SHALL BE 35° DEFLECTION.
4 PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.

CABINET UNIT HEATER SCHEDULE

MARK	CFM	FAN SPEED (RPM)	HP	HEATING 140°F EWT MBH	EAT	LAT	GPM	WPD	LWT	COIL ROWS	ELEC	MCA	MODEL	NOTES
CUH-101	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-102	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-103	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-104	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-105	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-106	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-107	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-108	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-109	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-110	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-111	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-112	300	1038	0.036	11.1	60.0 °F	94.1	0.6	1.71	100	2	115/1	2.75	FFEB030	1,2,3,4,5,6,7,8
CUH-113	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-114	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-115	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-116	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-117	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-118	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-119	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-120	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-121	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-122	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-123	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-124	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-125	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8
CUH-126	200	723	.012	8.4	60.0 °F	98.5	0.4	1.05	100	2	115/1	2.75	FFEB020	1,2,3,4,5,6,7,8

NOTE:
1 STANDARD COLOR AS SPECIFIED BY ARCHITECT.
2 INCLUDE FACTORY MOUNTED DISCONNECT.
3 UNIT SCHEDULED WITH BOTTOM SUPPLY AND BOTTOM RETURN.
4 UNIT SCHEDULED AS MANUFACTURED BY TRANE.
5 UNIT SHALL BE PROVIDED WITH CEILING TRIM KIT.
6 SUPPORT UNIT HEATER FROM STRUCTURE ABOVE WITH MINIMUM OF FOUR (4) 3/8" DIAMETER THREADED RODS AND VIBRATION ISOLATORS.
7 REFER TO SPECIFICATION SECTION 238239.
8 HORIZONTAL CEILING RECESSED UNIT.
9 UNIT SHALL BE CEILING MOUNTED.

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

MARK	MAX PRIMARY CFM	MIN PRIMARY CFM	INLET DIA.	WATER HEAT (140°F EWT) MBH	HW Flow	WPD (ft. wg)	LAT	LWT	COIL ROWS	MANUFACTURER	MODEL	MARK
VVR-101	325	268	8"	13.9	0.7 GPM	0.08	94.3 °F	100.3	4	TRANE	VCWF	VVR-101
VVR-102	250	206	6"	10.5	0.5 GPM	0.27	93.9 °F	97.7	3	TRANE	VCWF	VVR-102
VVR-103	900	744	12"	40.4	1.8 GPM	0.32	96.4 °F	95.0	4	TRANE	VCWF	VVR-103
VVR-104	335	277	8"	14	0.7 GPM	0.08	93.5 °F	100.0	4	TRANE	VCWF	VVR-104
VVR-105	1100	909	14"	44.7	2.2 GPM	0.28	92.5 °F	99.3	3	TRANE	VCWF	VVR-105
VVR-106	1040	860	12"	46.1	2.1 GPM	0.42	95.9 °F	96.0	4	TRANE	VCWF	VVR-106
VVR-107	275	227	6"	11.9	0.6 GPM	0.37	95.0 °F	100.1	3	TRANE	VCWF	VVR-107
VVR-108	210	174	5"	9.9	0.5 GPM	0.27	98.5 °F	100.3	3	TRANE	VCWF	VVR-108
VVR-109	210	174	5"	9.9	0.5 GPM	0.27	98.5 °F	100.3	3	TRANE	VCWF	VVR-109
VVR-110	210	174	5"	9.9	0.5 GPM	0.27	98.5 °F	100.3	3	TRANE	VCWF	VVR-110
VVR-111	150	124	5"	6.9	0.5 GPM	0.18	97.5 °F	112.3	2	TRANE	VCWF	VVR-111
VVR-112	575	475	10"	24.5	1.2 GPM	0.37	94.3 °F	99.0	3	TRANE	VCWF	VVR-112
VVR-113	1085	896	12"	47.9	2.2 GPM	0.46	95.7 °F	96.4	4	TRANE	VCWF	VVR-113
VVR-114	1085	896	12"	47.9	2.2 GPM	0.46	95.7 °F	96.4	4	TRANE	VCWF	VVR-114
VVR-115	500	413	10"	21.3	1.0 GPM	0.27	94.2 °F	97.4	3	TRANE	VCWF	VVR-115
VVR-116	175	145	5"	7.4	0.5 GPM	0.18	93.9 °F	110.4	2	TRANE	VCWF	VVR-116
VVR-117	1135	938	14"	46.3	2.3 GPM	0.31	92.6 °F	99.6	3	TRANE	VCWF	VVR-117
VVR-118	1135	938	14"	46.3	2.3 GPM	0.31	92.6 °F	99.6	3	TRANE	VCWF	VVR-118
VVR-119	150	124	5"	6.9	0.5 GPM	0.18	97.5 °F	112.3	2	TRANE	VCWF	VVR-119
VVR-120	875	723	12"	33.3	1.8 GPM	0.26	90.1 °F	102.9	3	TRANE	VCWF	VVR-120
VVR-121	675	558	10"	27.9	1.4 GPM	0.49	93.2 °F	100.0	3	TRANE	VCWF	VVR-121
VVR-122	1050	868	12"	46.2	2.1 GPM	0.42	95.6 °F	95.9	4	TRANE	VCWF	VVR-122
VVR-123	515	425	10"	21.5	1.0 GPM	0.27	93.5 °F	96.9	3	TRANE	VCWF	VVR-123

NOTE:
1 UNIT MANUFACTURER SHALL PROVIDE REQUIRED HANGING BRACKETS TO PROPERLY SUPPORT UNIT.
2 HEATING COIL DESIGN BASED ON HIGH-EFFICIENCY, HOT WATER COIL
3 HEATING COIL LOADS CALCULATED WITH 140 DEG EWT AND 55 DEG EAT, MIN. 90 DEG LAT @ TOTAL PRIMARY AIR FLOW. APD TO BE BELOW 0.6 INCHES H20.
4 REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
5 UNIT SELECTION MUST ALLOW FOR A MINIMUM OF 0.50" DOWNSTREAM STATIC PRESSURE.
6 COILS SHALL BE SELECTED WITH 5' WPD MAXIMUM.
7 DIVISION 26 CONTRACTOR TO SUPPLY 120V/1 POWER TO EACH VAV TERMINAL FOR CONTROL POWER. UNIT SHALL BE PROVIDED WITH FACTORY INSTALLED 120V/24V TRANSFORMER.
8 PROVIDE NUMBER OF COIL ROWS AS REQUIRED TO MEET MBH. COILS MAY REQUIRE 4-ROW.
9 CONTRACTOR TO CONFIRM LEFT HAND OR RIGHT HAND ORIENTATION PRIOR TO PURCHASE.
10 PROVIDE WITH FACTORY MOUNTED DISCONNECT.
11 MOUNT AT HEIGHT SUCH THAT THE MANUFACTURER'S CLEARANCES ARE MAINTAINED.

HEATING BOILER SCHEDULE

MARK	MANUFACTURER	MODEL	WEIGHT (LBS)	TYPE	HEATING WATER FLOW DESIGN (GPM)	EWT (°F)	LWT (°F)	ΔT (°F)	WPD (ftH2O)	HEATING CAPACITY INPUT	OUTPUT	EFF. η	ELECTRICAL DATA VOLTS	PH	NOTES
BLR-1	Lochinvar	FTX600	470	FTXL Fire Tube Boiler	29	100	140	40	2.8	600,000	585,000	97.5	120 V	1	1,2,3,4,5
BLR-2	Lochinvar	FTX600	470	FTXL Fire Tube Boiler	29	100	140	40	2.8	600,000	585,000	97.5	120 V	1	1,2,3,4,5

NOTE:
1 INSTALL EQUIPMENT ON 3-1/2" HIGH CONCRETE HOUSEKEEPING PAD.
2 PROVIDE MODULATING BURNER WITH MINIMUM 7:1 TURNDOWN.
3 SINGLE POINT POWER CONNECTION.
4 REFER TO PROJECT MANUAL.
5 ELECTRICAL REQUIREMENTS VARY BY UNIT MANUFACTURER.

HYDRONIC PUMP SCHEDULE

MARK	WEIGHT (LBS)	TYPE	PERFORMANCE DATA FLOW RATE (GPM) DESIGN	HEAD (ftH20)	NPSH	HP	PUMP η (%)	ELECTRICAL DATA ELECTRICAL	NOTES
HWP-1	407	Frame-Mounted End Suction Pump	48	80	4	3	48	480 V-3-60	1,2,3,4,5,6
HWP-2	407	Frame-Mounted End Suction Pump	48	80	4	3	48	460 V-3-60	1,2,3,4,5,6

NOTE:
1 BASED ON TACO.
2 MOUNT ON 3 1/2" CONCRETE HOUSEKEEPING PAD.
3 SINGLE POINT POWER CONNECTION.
4 PUMP DISCONNECT AND WIRING BETWEEN PUMP AND VFD BY DIVISION 26
5 REFER TO PROJECT MANUAL.
6 PUMP CONTROLLED BY VARIABLE FREQUENCY CONTROLLER.

AIR/DIRT SEPARATOR SCHEDULE

MARK	SYSTEM SERVED	SIZE	GPM	MAX. P.D. (FT)	MANUFACTURER	MODEL NO.	NOTES
ADS-1	HEATING HOT WATER	2 1/2"	48	5.00	TACO	4902SADT-125	1,2

NOTE:
1 SUPPORT FROM STRUCTURE ABOVE.
2 REFER TO PROJECT MANUAL.

CHEMICAL SHOT FEEDER SCHEDULE

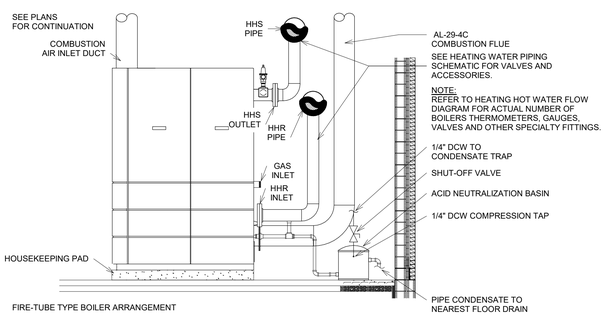
MARK	VOLUME	NOTES
CF-1	5.0 gal	1,2,3

NOTE:
1 REFER TO PROJECT MANUAL.
2 INCLUDE LEG SUPPORT.
3 EQUIPMENT TO BE FLOOR MOUNTED.

VARIABLE FREQUENCY CONTROLLER SCHEDULE

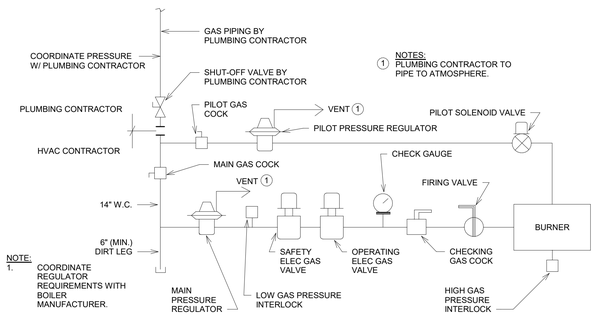
MARK	EQUIPMENT SERVING	MARK SERVING	HP	ELECTRICAL SERVICE	NOTES
VFC-1	HEATING WATER PUMP	HWP-1	3	480/3	1,2,3,4,5
VFC-2	HEATING WATER PUMP	HWP-2	3	480/3	1,2,3,4,5

NOTES:
1 DRIVE PROVIDED AND INSTALLED BY THE DIVISION 23 - HVAC CONTRACTOR.
2 DIVISION 26 - ELECTRICAL CONTRACTOR TO PROVIDE POWER WIRING TO VFC AND FROM VFC TO MOTOR(S).
3 TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE ALL TEMPERATURE CONTROL WIRING.
4 REFER TO SPECIFICATION SECTION 232923.
5 PROVIDE WITH A FACTORY MOUNTED DISCONNECT.



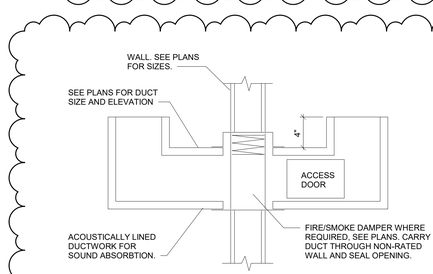
1 HEATING HOT WATER CONDENSING BOILER INSTALLATION DETAIL (ELEVATION)

N.T.S.



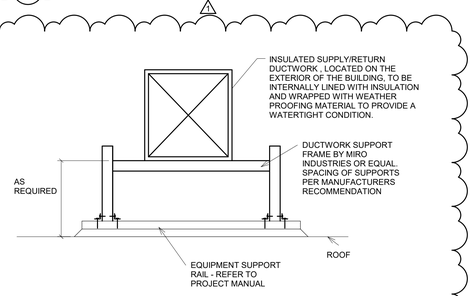
2 BOILER GAS TRAIN PIPING DIAGRAM

N.T.S.



3 RETURN AIR SOUND TRAP DETAIL (F/S DAMPER)

N.T.S.



4 OUTDOOR PIPING SUPPORT DETAIL

N.T.S.

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

900 MULBERRY ST.
ZIONSVILLE IN, 46077

ZIONSVILLE COMMUNITY SCHOOLS

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CONSULTANT

CONSTRUCTION DOCUMENTS

TIMOTHY C. LEHMAN REGISTERED No. PE 19800147 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: KPR
PROJECT NUMBER: 223139.00
PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2.14.2024

MECHANICAL SCHEDULES AND DETAILS

M5.01

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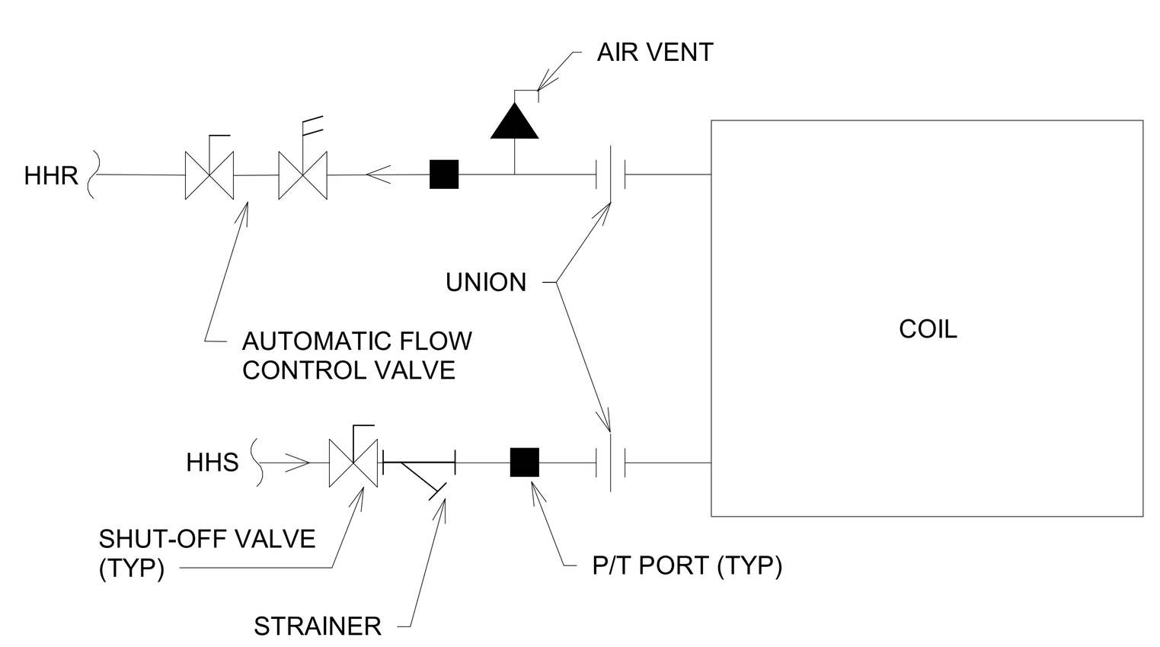
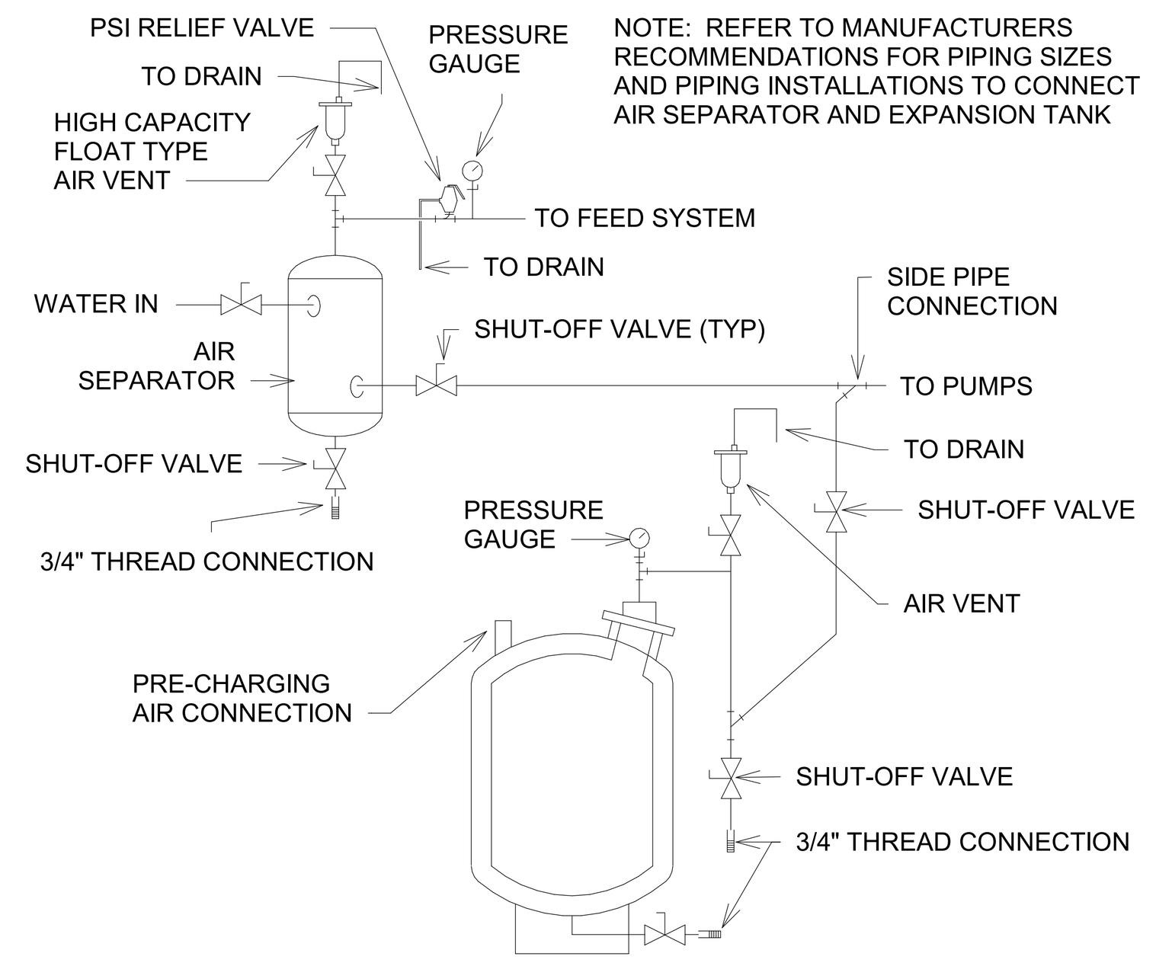
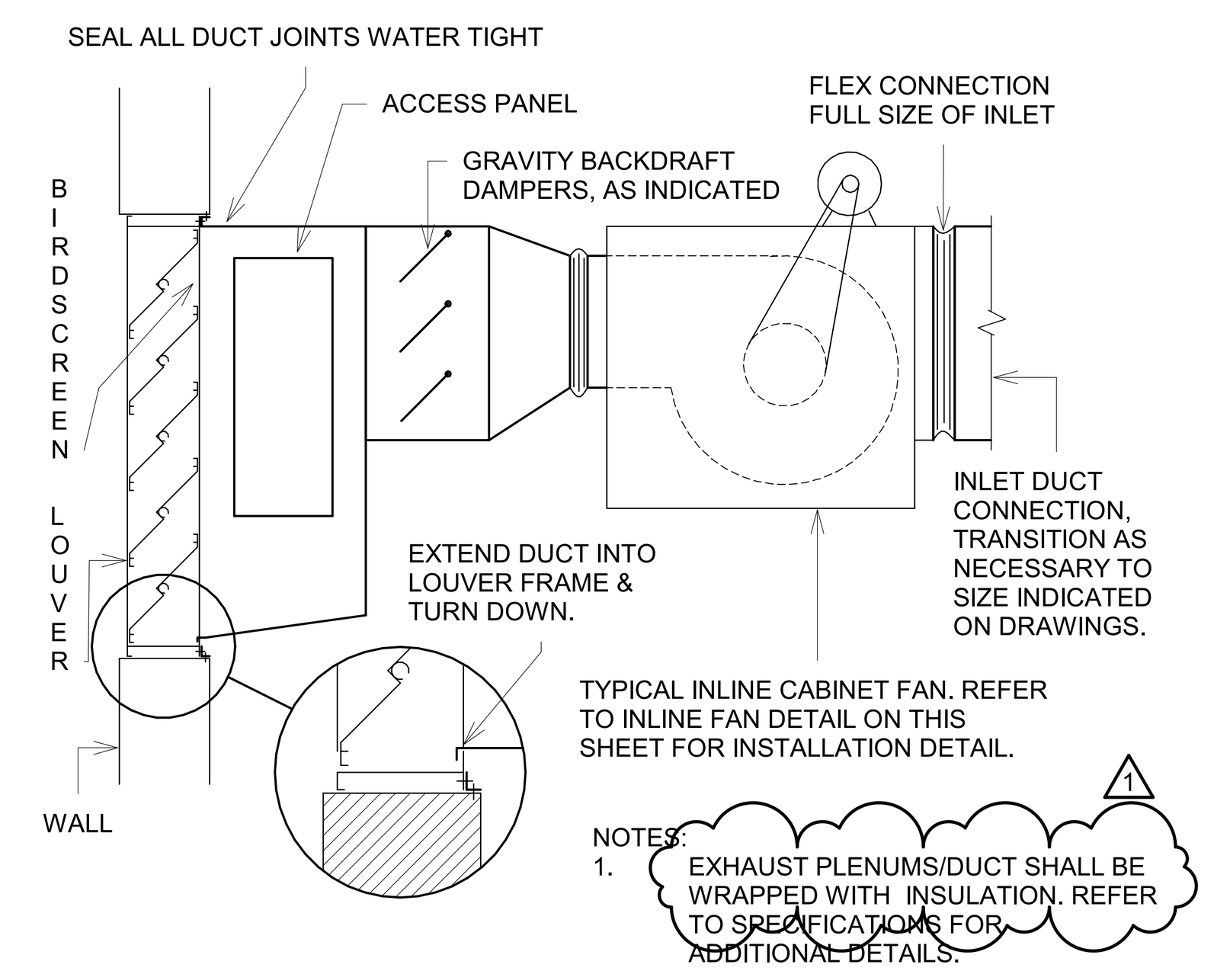


1 **CABINET HEATER COIL PIPING DIAGRAM**
N.T.S.



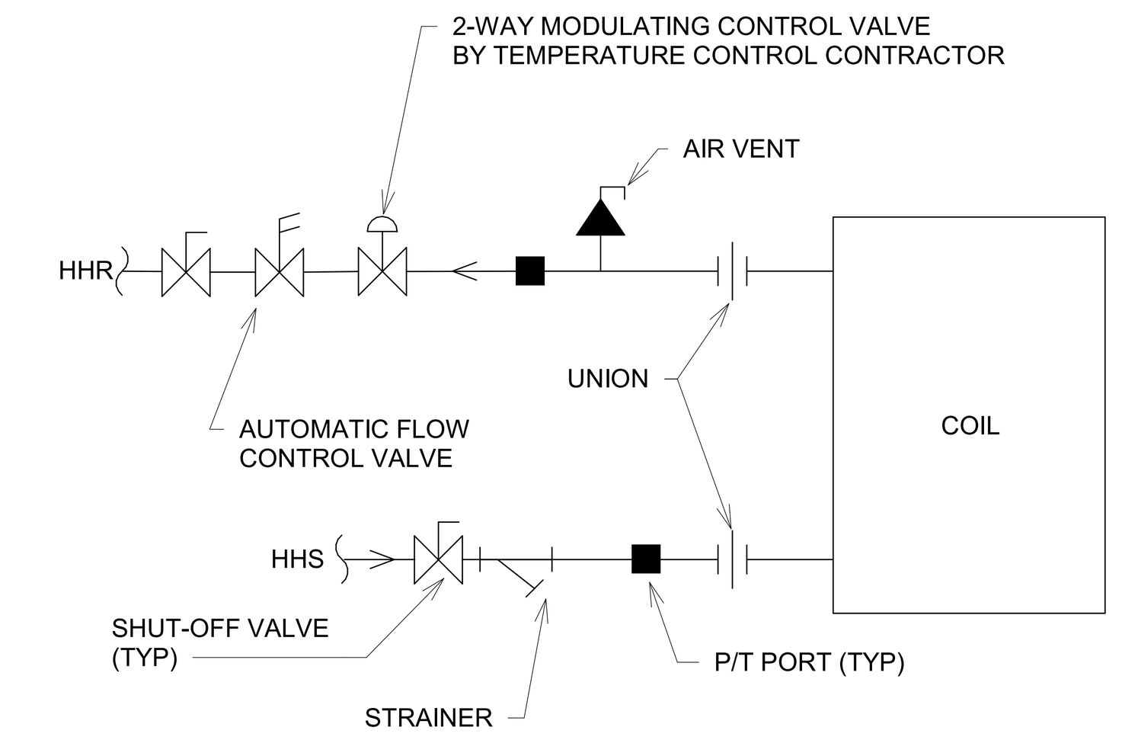
NOTE: REFER TO MANUFACTURERS RECOMMENDATIONS FOR PIPING SIZES AND PIPING INSTALLATIONS TO CONNECT AIR SEPARATOR AND EXPANSION TANK

2 **AIR SEPARATOR/EXPANSION TANK PIPING DIAGRAM**
N.T.S.

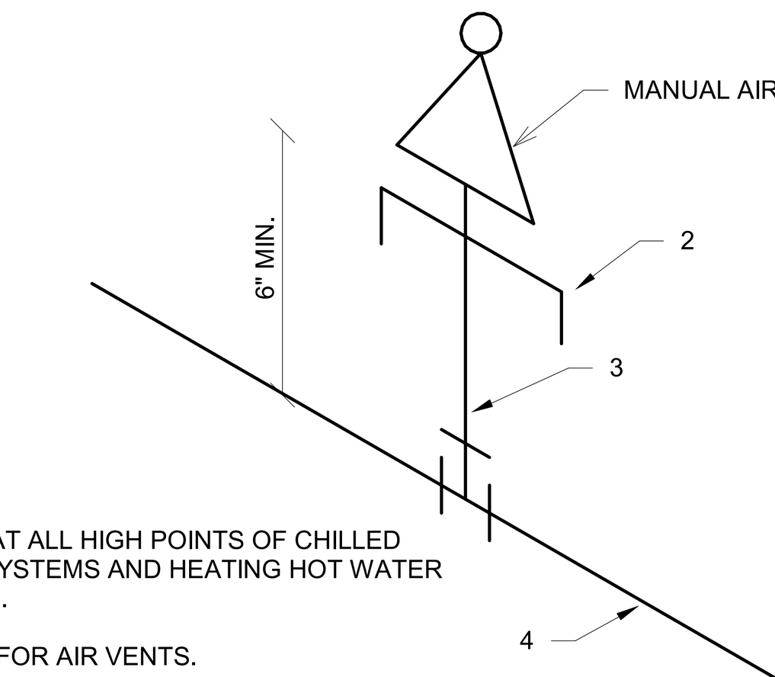


NOTES:
1. EXHAUST PLENUMS/DUCT SHALL BE WRAPPED WITH INSULATION. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.

3 **EXHAUST LOUVER DETAIL**
N.T.S.

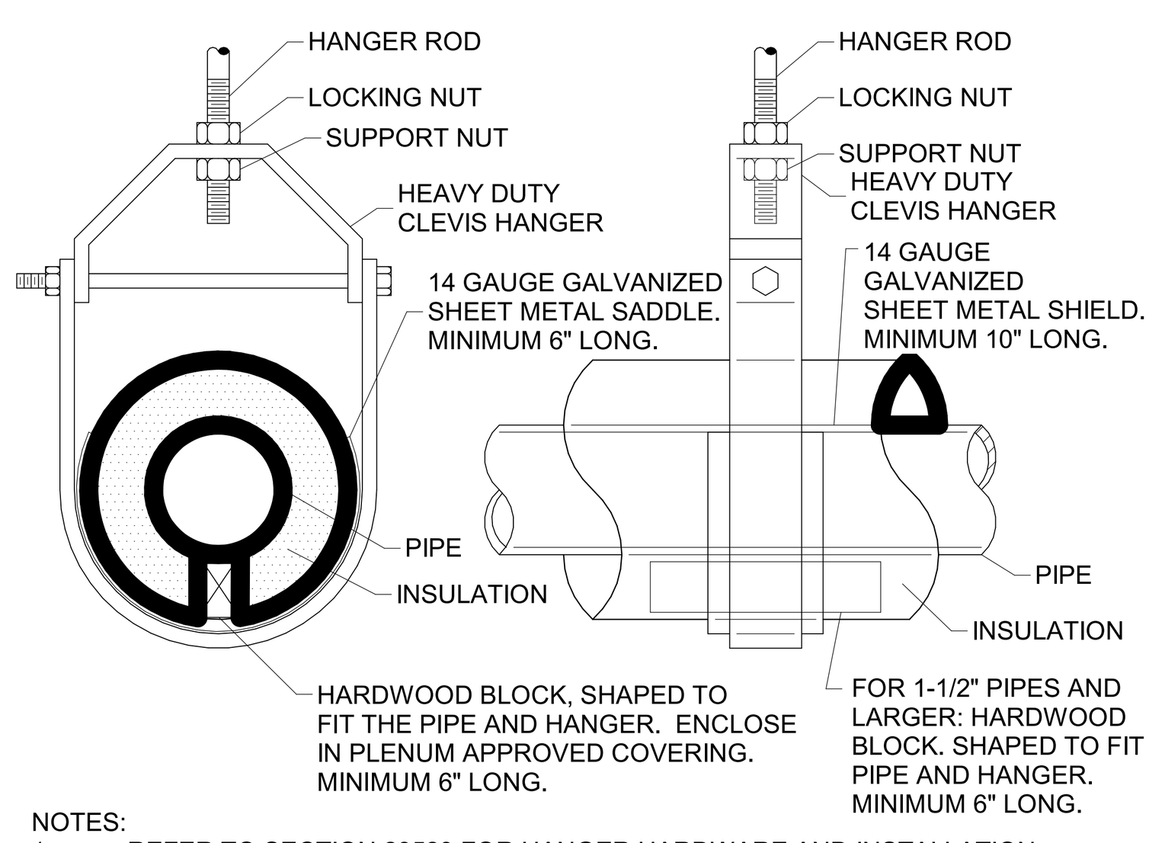


4 **VAV/VVR COIL PIPING DIAGRAM (TWO-WAY VALVE)**
N.T.S.



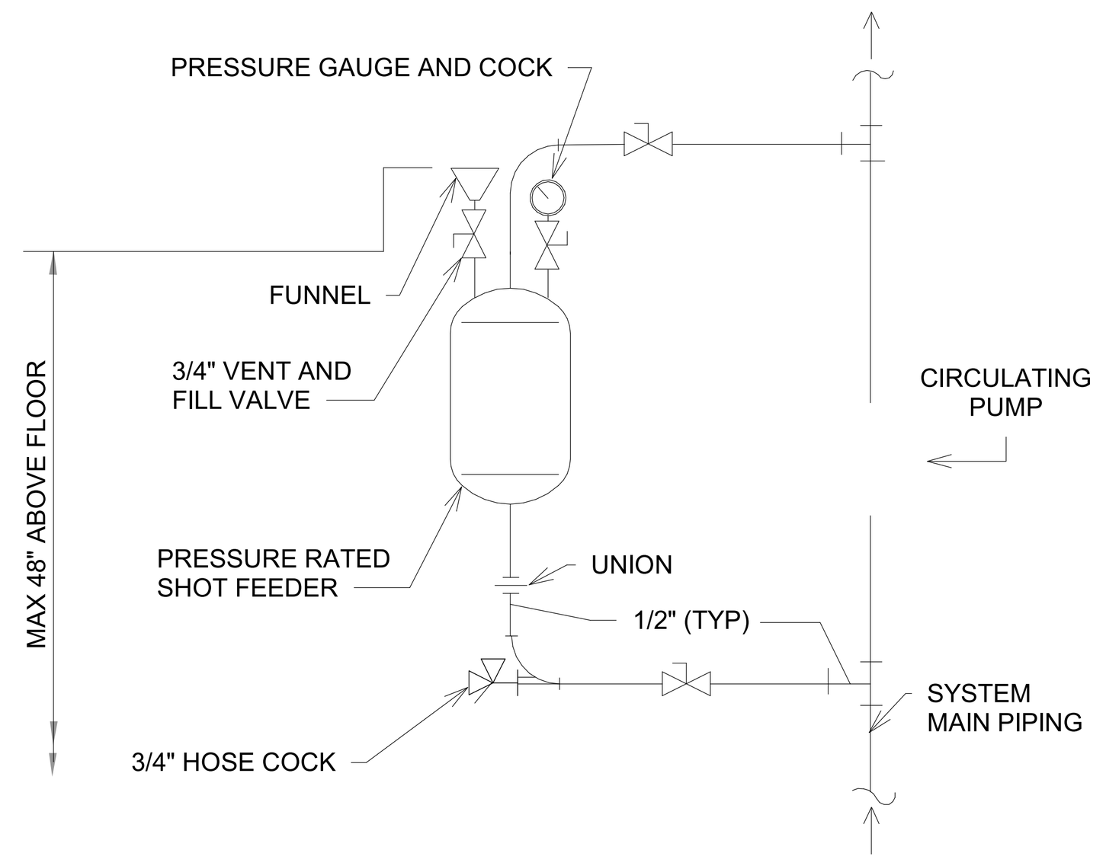
NOTES:
1. LOCATE AT ALL HIGH POINTS OF CHILLED WATER SYSTEMS AND HEATING HOT WATER SYSTEMS.
2. TAP CAP FOR AIR VENTS.
3. FOR MAINS UP TO AND INCLUDING 2", RUN PIPE SIZE SAME AS MAIN SIZE. RUN 2" FOR 2" AND ABOVE.
4. TYPICAL FOR CHILLED WATER SUPPLY AND RETURN MAINS OR HEATING WATER SUPPLY AND RETURN MAINS.
5. MANUAL AIR VENTS SHALL BE INSTALLED ON ALL VARIABLE SPEED PUMP APPLICATIONS.

5 **MANUAL AIR VENT**
N.T.S.

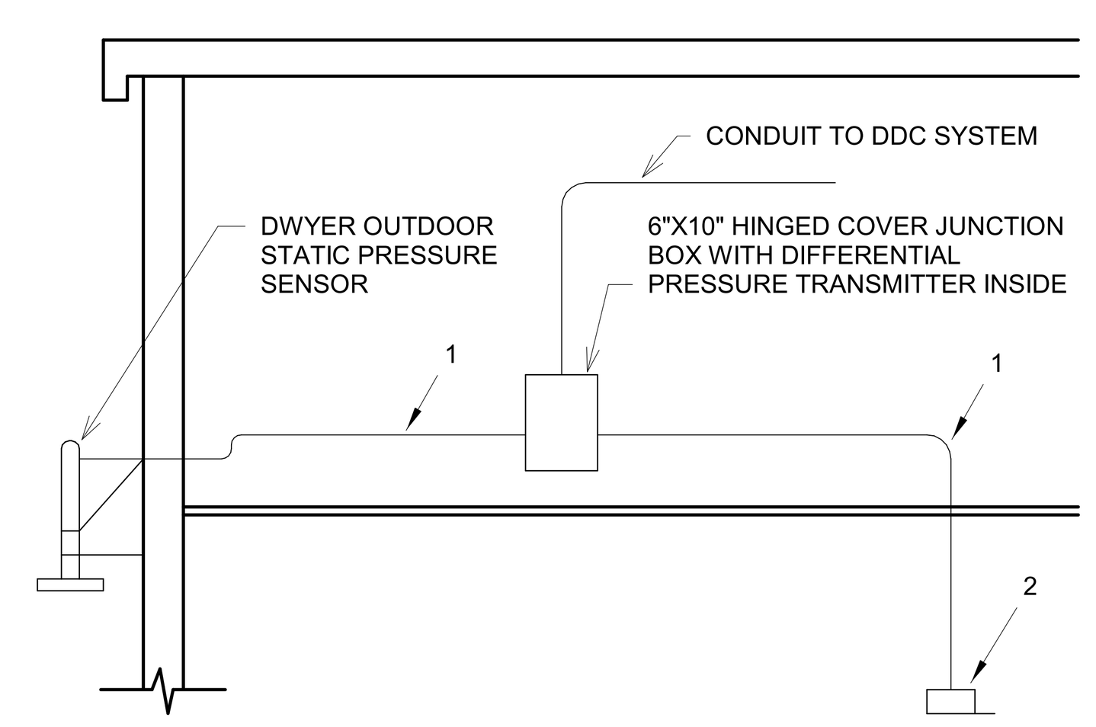


NOTES:
1. REFER TO SECTION 23529 FOR HANGER HARDWARE AND INSTALLATION REQUIREMENTS.
2. REFER TO SECTION 230700 FOR MECHANICAL INSULATION REQUIREMENTS.

6 **PIPE HANGERS (6" AND SMALLER)**
N.T.S.

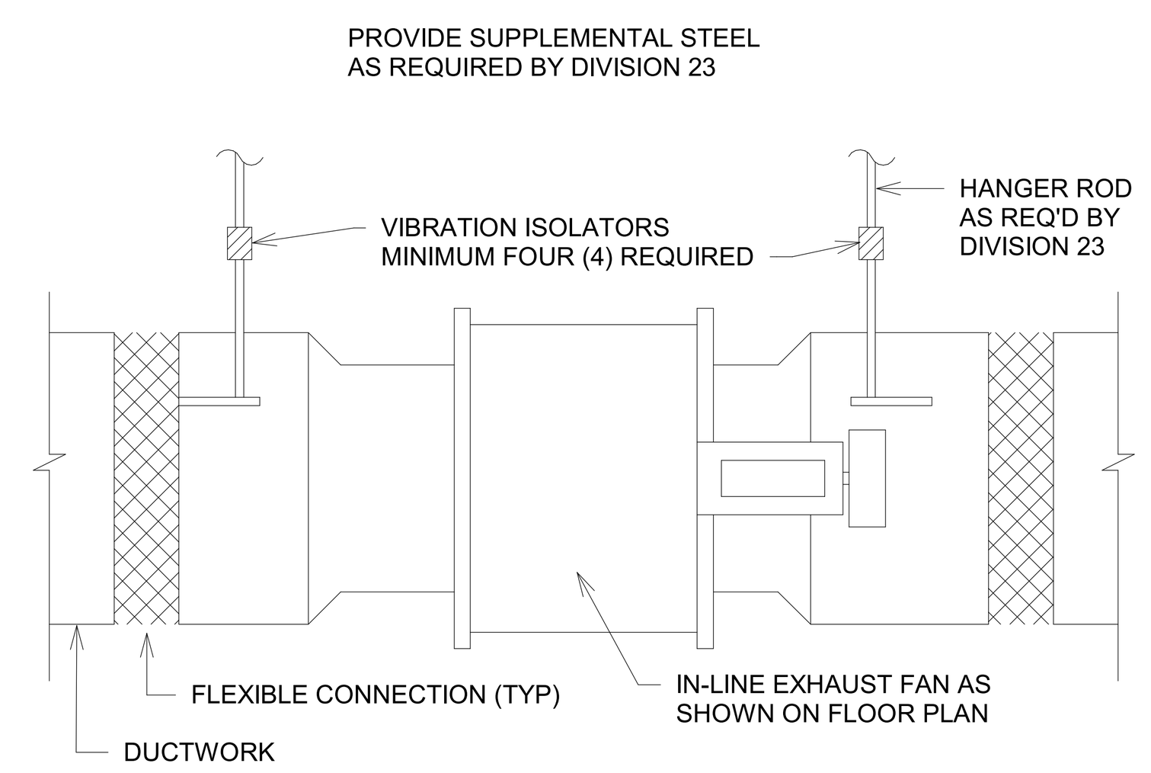


7 **CHEMICAL SHOT FEEDER**
N.T.S.



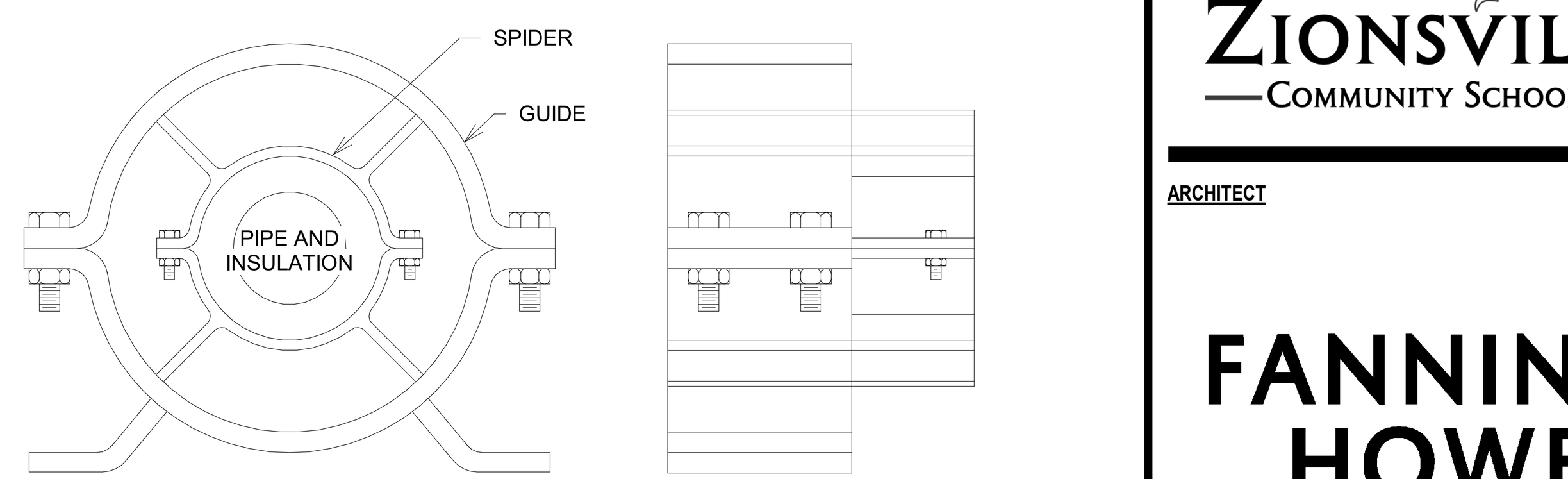
NOTES:
1. MINIMUM 3/8" O.D. TUBING. EQUALIZE LENGTH OF SENSOR TUBES.
2. TERMINATE TUBING IN AN EMPTY THERMOSTAT COVER. LOCATED AS SHOWN ON THE DRAWINGS.

8 **BUILDING STATIC PRESSURE SENSOR DETAIL**
N.T.S.

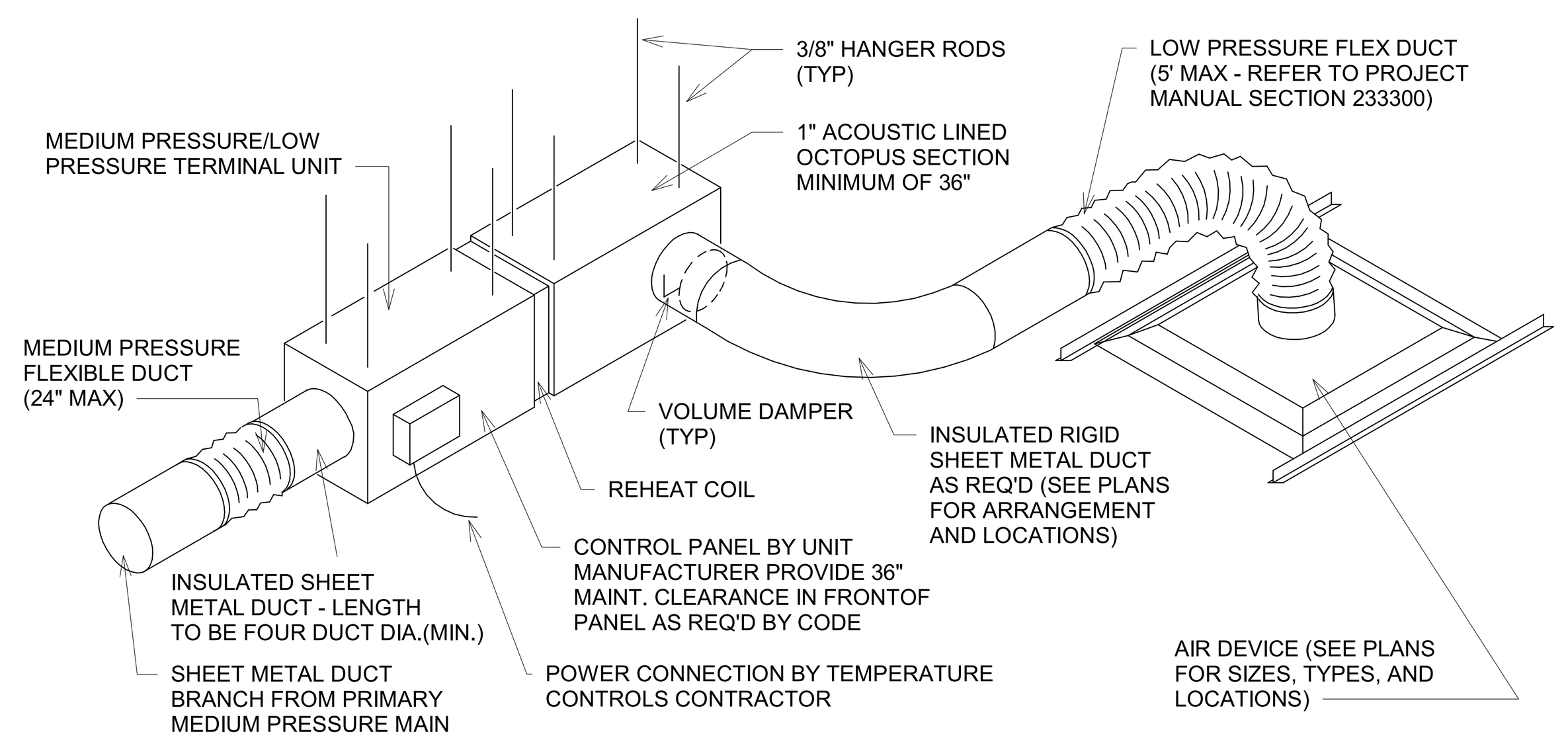


9 **IN-LINE EXHAUST FAN MOUNTING DETAIL**
N.T.S.

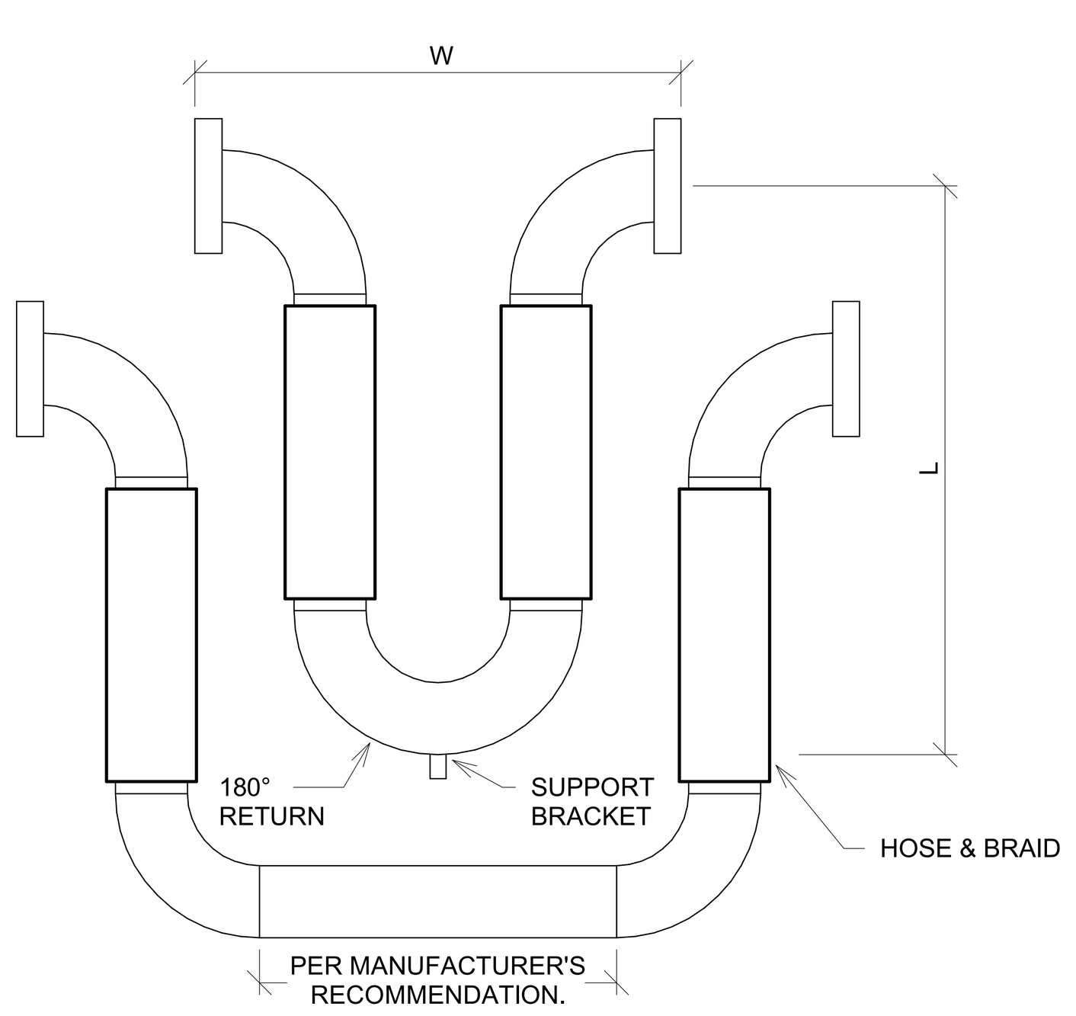
NOTE
SPIDER INSTALLED FOR MAXIMUM TRAVEL



10 **PIPE ALIGNMENT GUIDE DETAIL**
N.T.S.



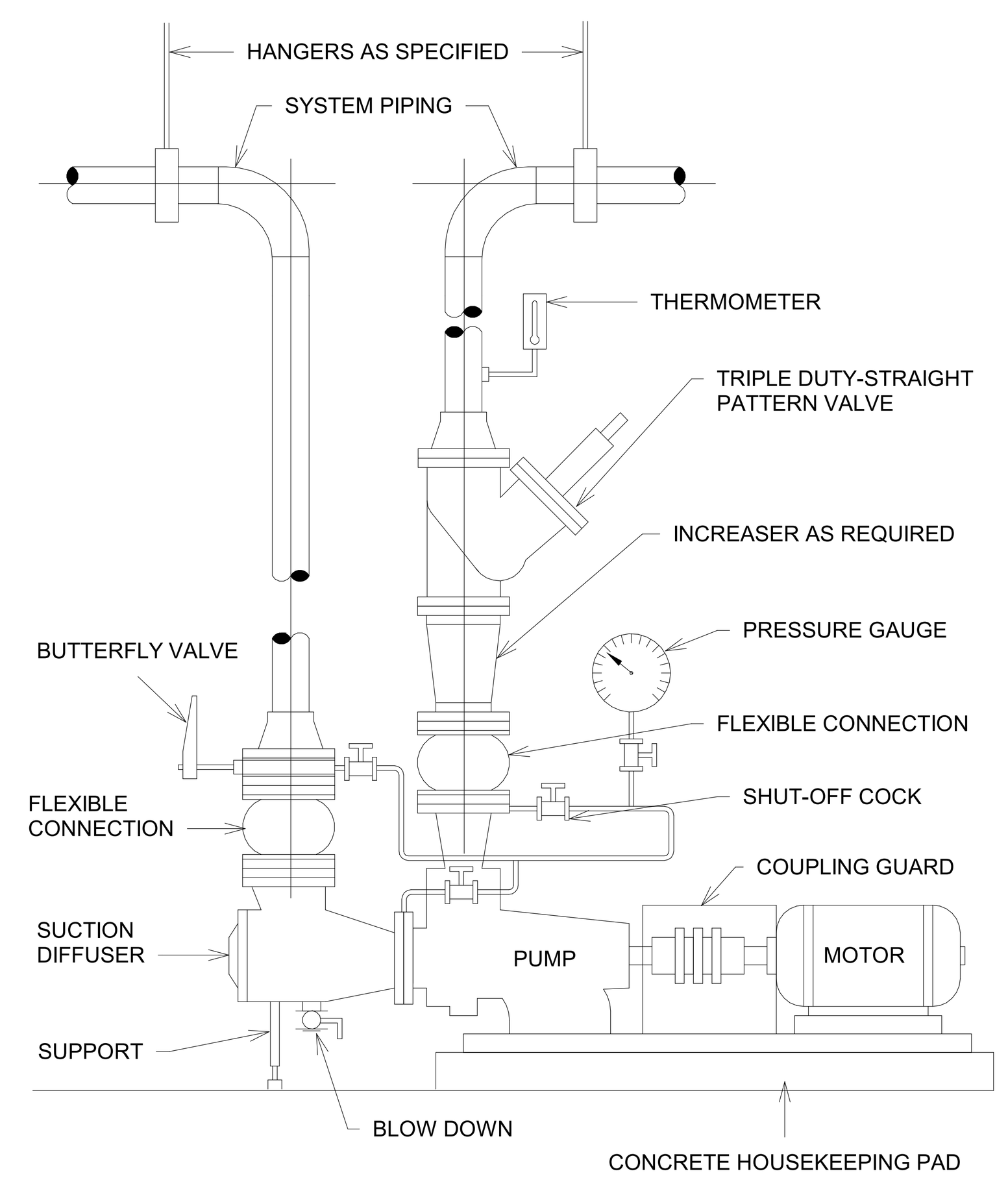
11 **TERMINAL REHEAT UNIT INSTALLATION DETAIL**
N.T.S.



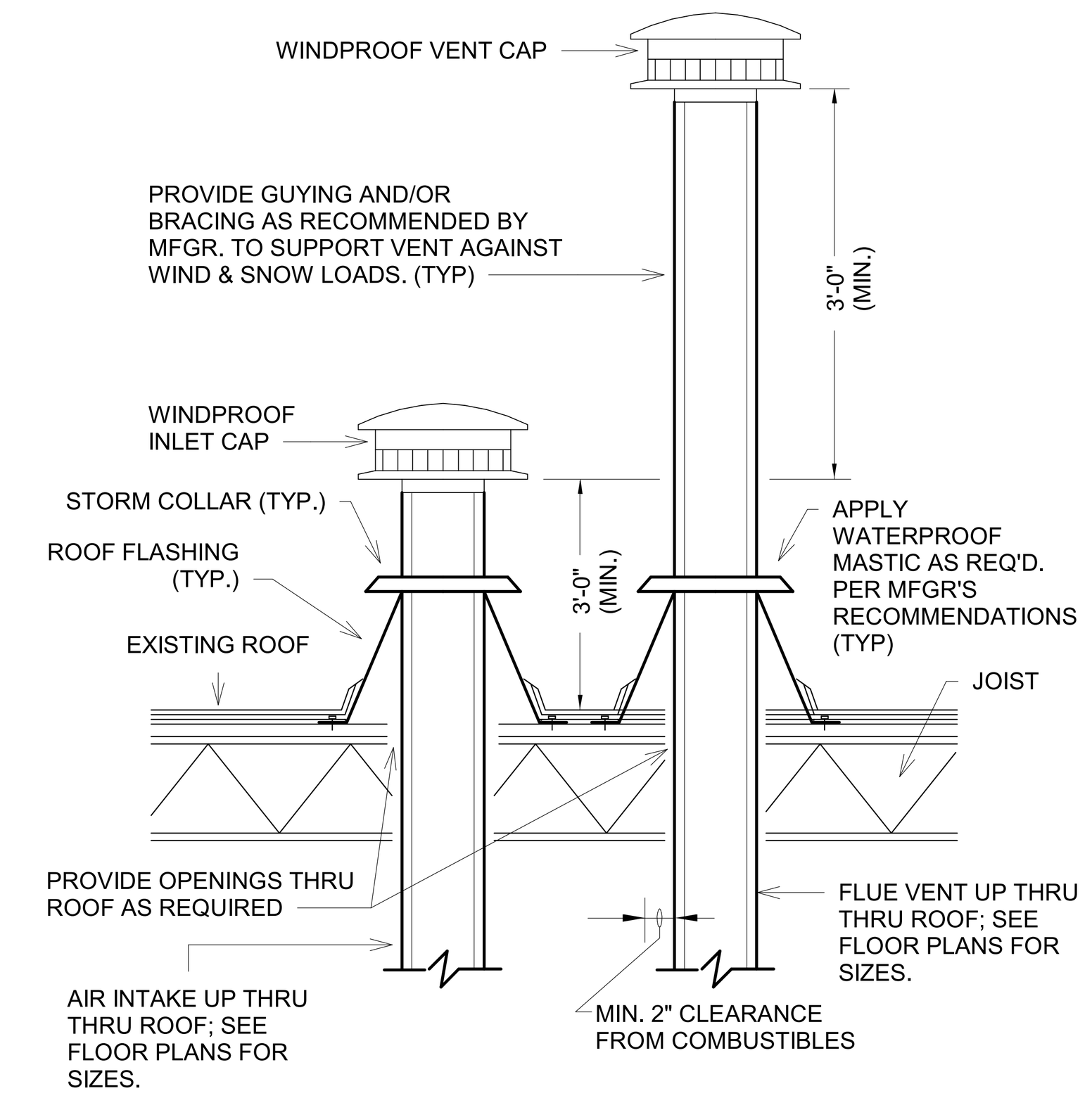
NOTE:
1. FLEXIBLE LOOPS 2" AND LARGER MAY BE INSTALLED IN ANY OTHER ORIENTATION OTHER THAN HANGING DOWN. MUST HAVE THE 180° RETURN SUPPORTED. (SEE MANUFACTURERS INSTALLATION INSTRUCTIONS.)

SIZE	MOVEMENT	W	L	PSI @ 200°	SPRING FORCE LBS.	WEIGHT LBS.
1/2"	+/- 4"	8"	15"	706	45	2.5
3/4"	+/- 4"	9-1/2"	19"	577	47	2.5
1"	+/- 4"	10-1/4"	21"	470	53	3.0
1-1/4"	+/- 4"	11-1/4"	22"	361	66	4.0
1-1/2"	+/- 4"	11-3/4"	24"	329	70	4.5
2"	+/- 4"	20"	25"	500.0	78	18
2-1/2"	+/- 4"	21-1/2"	28"	387.0	83	29
3"	+/- 4"	24"	30"	288.0	90	43
4"	+/- 4"	30"	35"	232.0	120	60
5"	+/- 4"	36"	40"	191.0	186	99
6"	+/- 4"	42"	46"	165.0	202	150
8"	+/- 4"	56"	58"	212.0	260	286
10"	+/- 4"	68"	67"	175.0	283	461

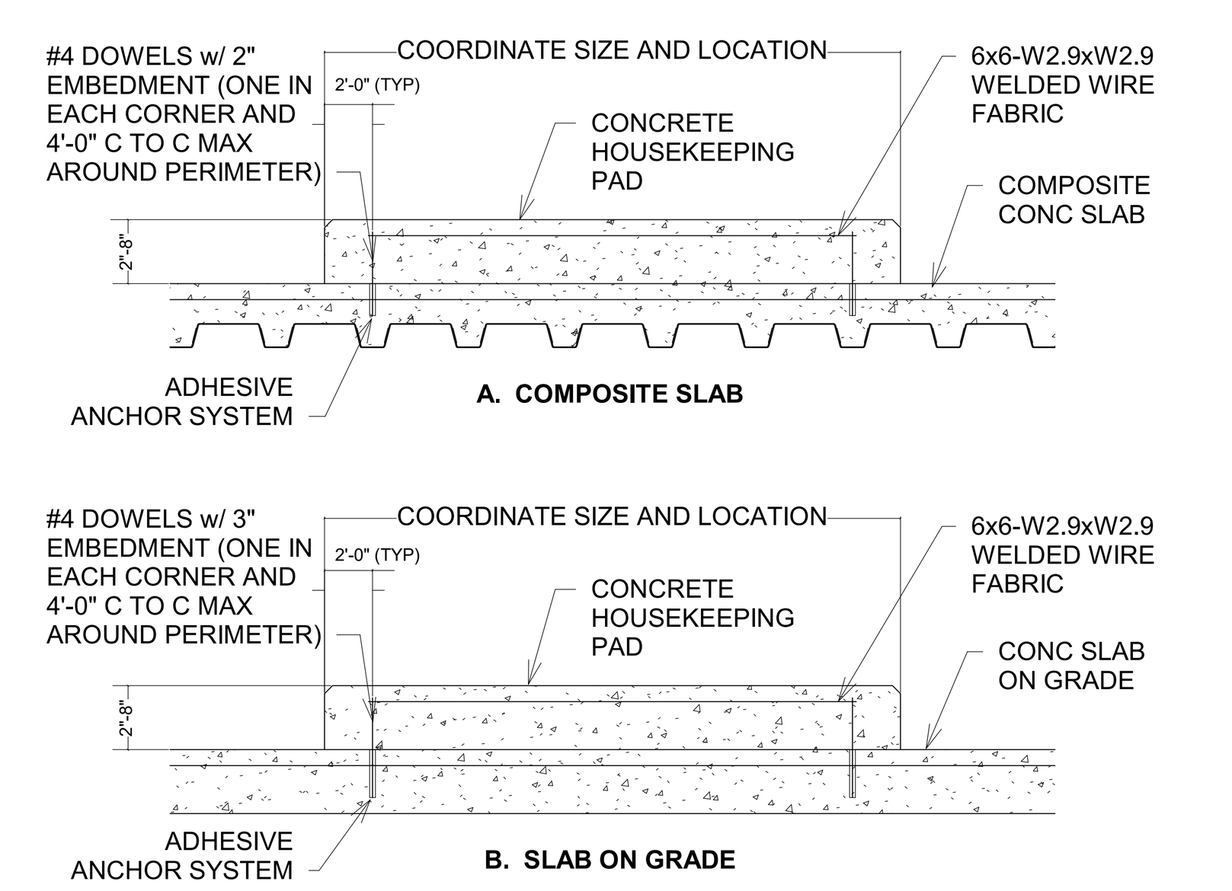
12 **HOSE AND BRAID FLEXIBLE LOOP DETAIL**
N.T.S.



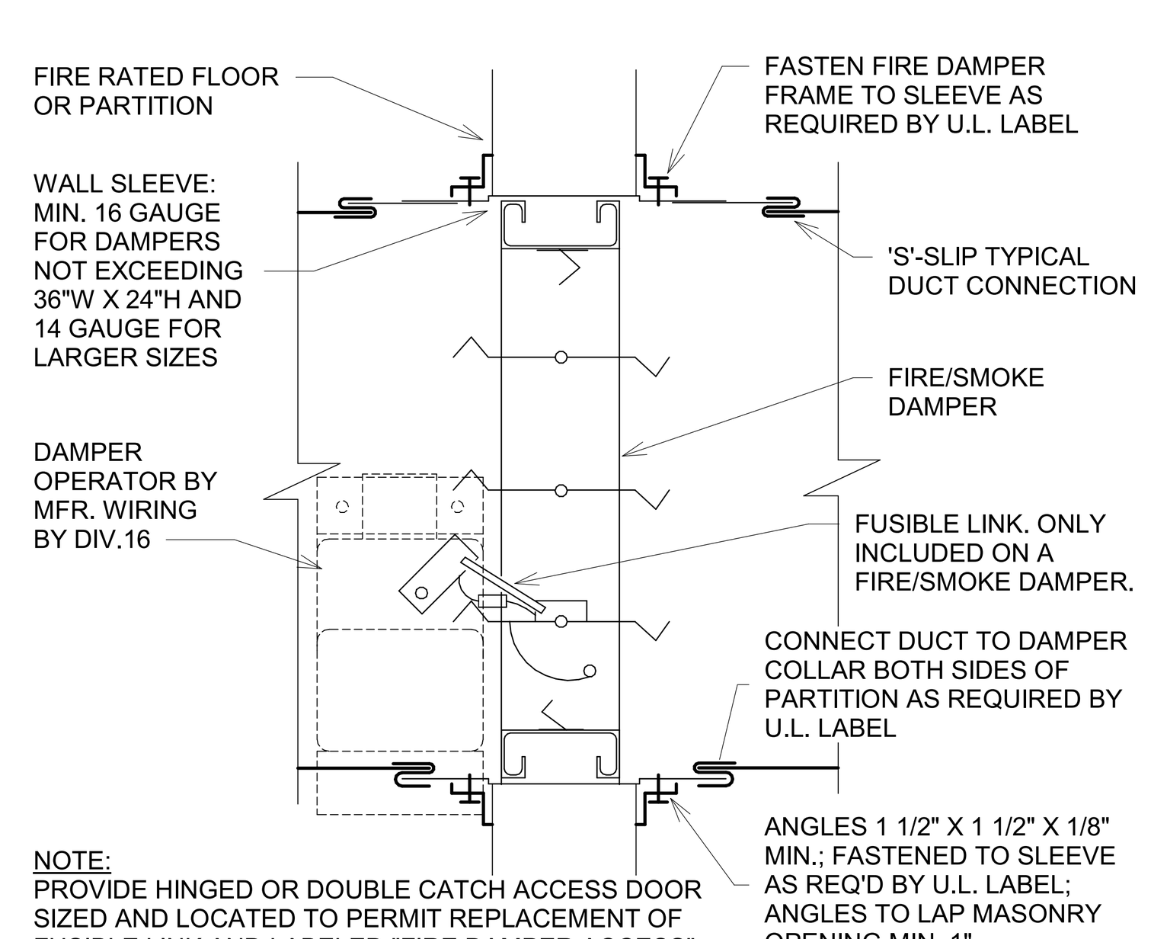
13 **BASE MOUNTED WATER PUMP PIPING DETAIL**
N.T.S.



14 **BOILER FLUE INSTALLATION**
N.T.S.

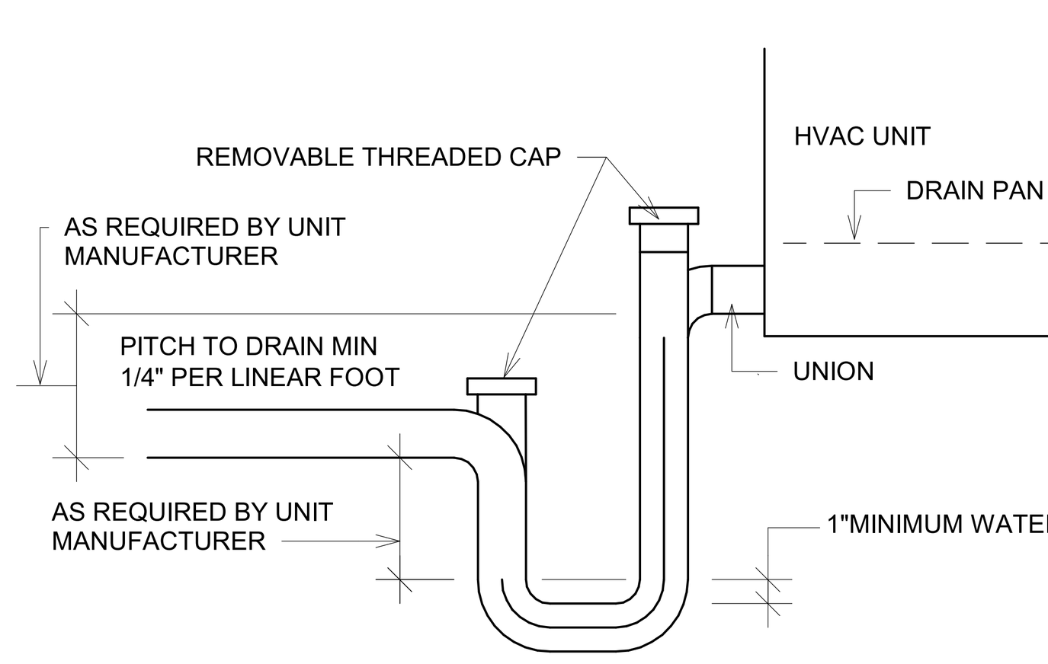


15 **HOUSEKEEPING PADS**
N.T.S.

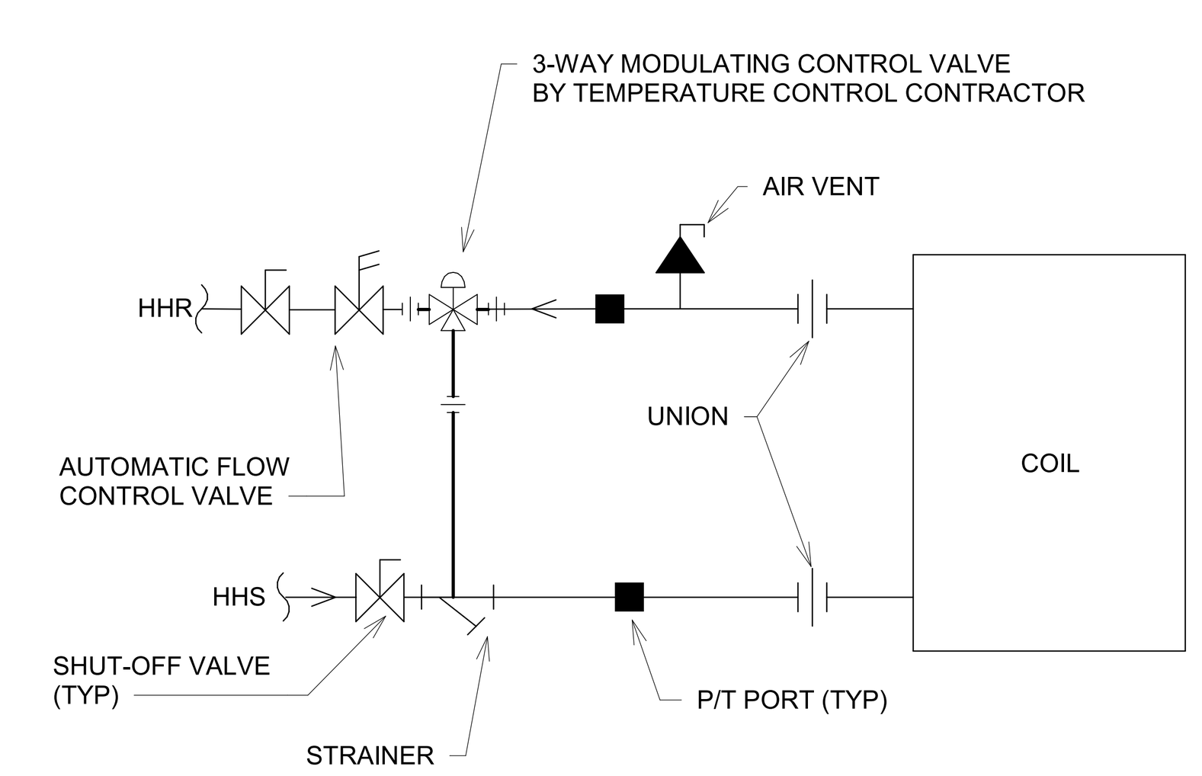


NOTE:
PROVIDE HINGED OR DOUBLE CATCH ACCESS DOOR SIZED AND LOCATED TO PERMIT REPLACEMENT OF FUSIBLE LINK AND LABELED "FIRE DAMPER ACCESS"

16 **SMOKE OR FIRE/SMOKE DAMPER DETAIL**
N.T.S.



17 **CONDENSATE TRAP PIPING DIAGRAM**
N.T.S.



18 **VAV/VVR COIL PIPING DIAGRAM (THREE-WAY VALVE)**
N.T.S.

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

900 MULBERRY ST.
ZIONSVILLE IN, 46077

ZIONSVILLE COMMUNITY SCHOOLS

ZIONSVILLE
COMMUNITY SCHOOLS

ARCHITECT

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CONSULTANT

CONSTRUCTION DOCUMENTS

TIMOTHY C. LEHMAN
REGISTERED
No. PE 19800147
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY: KPR
PROJECT NUMBER: 223139.00
PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2.14.2024

MECHANICAL DETAILS

M5.02

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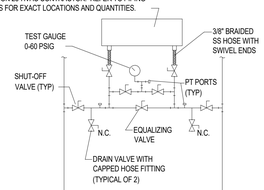
DIFFERENTIAL PRESSURE TRANSMITTER PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY DIVISION 23-HVAC CONTRACTOR. REFER TO PIPING PLANS FOR EXACT LOCATIONS AND QUANTITIES.



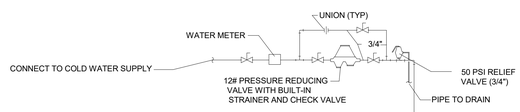
DPT COMMISSIONING NOTES:
1. OPEN THE EQUALIZING VALVE.
2. OPEN THE ISOLATION VALVES.
3. SLOWLY CRACK JOINT OF BRAIDED HOSE TO BLEED AIR.
4. TIGHTEN BRAIDED HOSE FITTING ONCE AIR IS BLED.
5. CLOSE THE EQUALIZING VALVE TO READ DIFFERENTIAL PRESSURE.

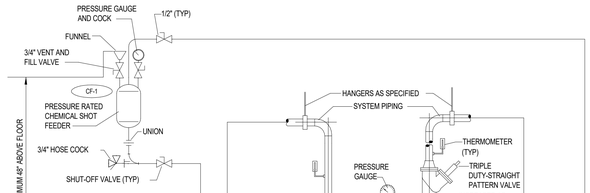
HHS

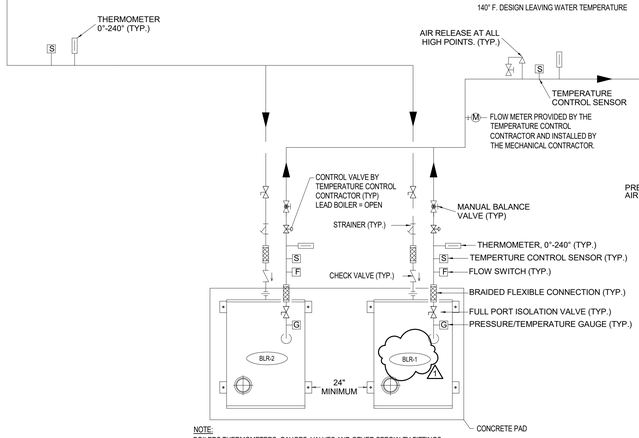
HHS

REFER TO SPECIFIC DETAILS FOR COIL HOOKUPS ON TERMINAL UNITS.

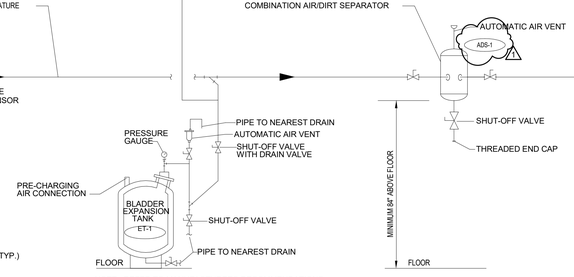
SCHEMATICS TO BE USED IN CONJUNCTION WITH SPECIFICATIONS AND CONSTRUCTION DOCUMENTS. SUBMITTALS TO BE APPROVED BEFORE START OF INSTALLATION.



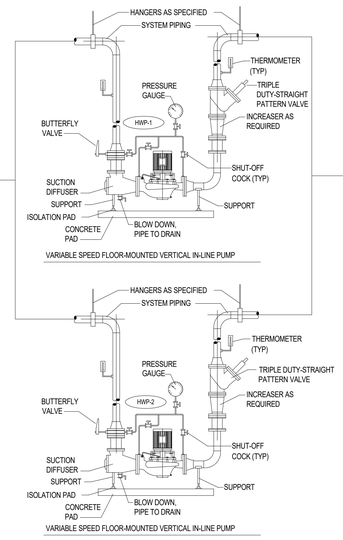




NOTE:
BOILERS THERMOMETERS, GAUGES, VALVES AND OTHER SPECIALTY FITTINGS. TO BE LOCATED BELOW 7-0"AFF FOR EASE OF ACCESS.



NOTE: REFER TO MANUFACTURERS RECOMMENDATIONS FOR PIPING SIZES AND PIPING INSTALLATIONS TO CONNECT AIR SEPARATOR AND EXPANSION TANK



VARIABLE-PRIMARY HEATING WATER PIPING SCHEMATIC

NO SCALE

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ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

900 MULBERRY ST.
ZIONSVILLE IN, 46077

ZIONSVILLE COMMUNITY SCHOOLS

ZIONSVILLE COMMUNITY SCHOOLS

ARCHITECT

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CONSULTANT

CONSTRUCTION DOCUMENTS

TIMOTHY C. LEHMAN REGISTERED No. PE 19800147 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: KPR

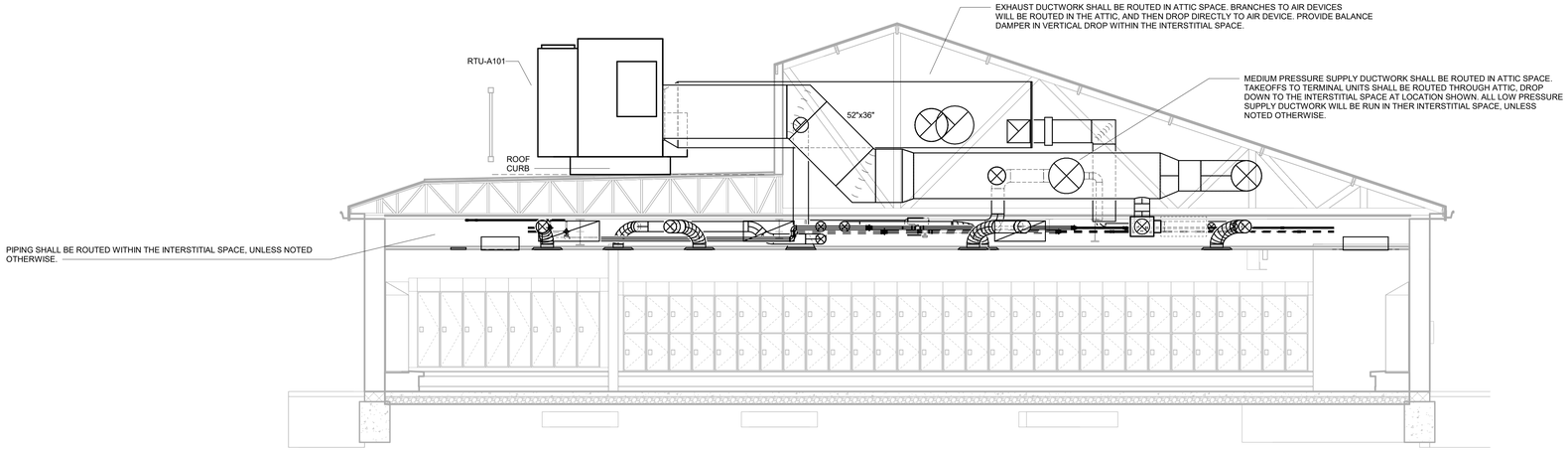
PROJECT NUMBER: 223139.00

PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2.14.2024

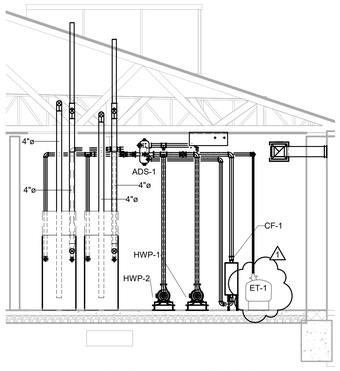
HEATING WATER SCHEMATIC

M5.03



Section 1 - RTU-A101

SCALE: 1/4" = 1'-0"



Section 2 - HEATING WATER PIPING

SCALE: 1/4" = 1'-0"

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

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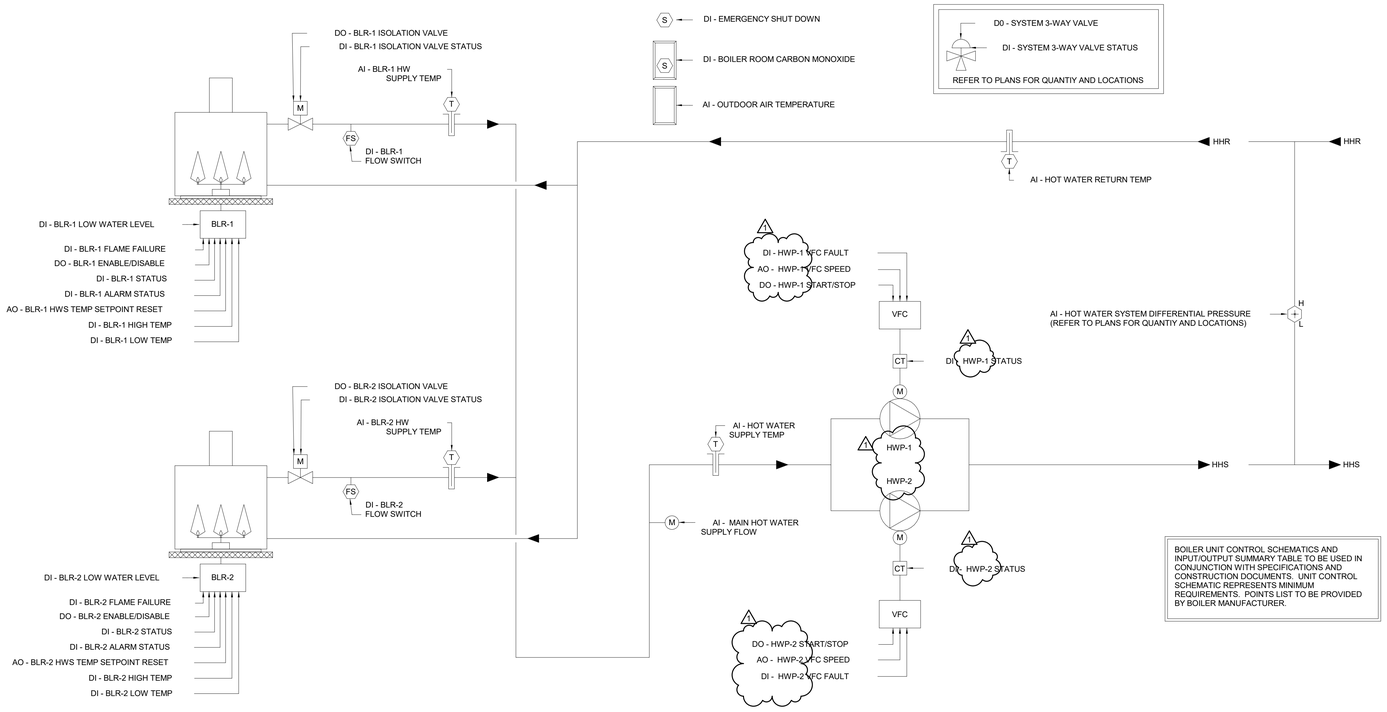
1	ADDENDUM #1	2.14.2024

MECHANICAL SECTIONS

M5.04



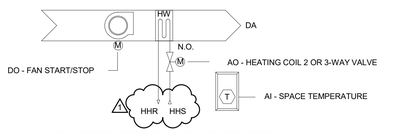
1 HEATING WATER CONTROL SCHEMATIC
SCALE: NTS

INPUT/OUTPUT SUMMARY TABLE

PROJECT:
ZIONSVILLE HIGH SCHOOL LOCKER BUILDING
ZIONSVILLE, INDIANA

HEATING WATER PLANT

POINT DESCRIPTION	AI	AO	DI	DO	TREND	ALARM	GRAPHIC
HOT WATER SUPPLY TEMP	X				X		X
HOT WATER RETURN TEMP	X				X		X
HOT WATER SYSTEM DIFFERENTIAL PRESSURE	X				X		X
BLR-1 HW SUPPLY TEMP	X				X		X
1 N/A							
BLR-2 HW SUPPLY TEMP	X				X		X
BLR-1 HIGH TEMP	X					X	
1 N/A							
BLR-2 HIGH TEMP	X					X	
BLR-1 LOW TEMP	X					X	
1 N/A							
BLR-2 LOW TEMP	X					X	
MAIN HOT WATER SUPPLY FLOW	X				X		X
HWP-1 VFC SPEED		X			X	X	X
HWP-2 VFC SPEED		X			X	X	X
BLR-1 HWS TEMP SETPOINT RESET		X			X		X
1 N/A							
BLR-2 HWS TEMP SETPOINT RESET		X			X		X
BLR-1 STATUS			X		X	X	X
1 N/A							
BLR-2 STATUS			X		X	X	X
HWP-1 STATUS			X		X	X	X
HWP-2 STATUS			X		X	X	X
BLR-1 FLOW SWITCH			X		X	X	X
1 N/A							
BLR-2 FLOW SWITCH			X		X	X	X
BLR-1 ALARM STATUS			X		X	X	X
1 N/A							
BLR-2 ALARM STATUS			X		X	X	X
HWP-1 VFC FAULT			X		X	X	X
1 HWP-2 VFC FAULT			X		X	X	X
EMERGENCY SHUT-DOWN			X			X	
BLR-1 ENABLE/DISABLE				X			X
1 N/A							
BLR-2 ENABLE/DISABLE				X			X
HWP-1 START/STOP				X			
HWP-2 START/STOP				X			
BLR-1 ISOLATION VALVE				X	X		X
1 N/A							
BLR-2 ISOLATION VALVE				X	X		X
BLR-1 FLAME FAILURE						X	
1 N/A							
BLR-2 FLAME FAILURE						X	
BLR-1 LOW WATER LEVEL						X	
1 N/A							
BLR-2 LOW WATER LEVEL						X	
BOILER ROOM CARBON MONOXIDE						X	
OUTSIDE AIR TEMPERATURE	X				X		X
BLR-1 ISOLATION VALVE STATUS			X		X	X	X
1 N/A							
BLR-2 ISOLATION VALVE STATUS			X		X	X	X



CABINET/PROPELLER UNIT HEATER DETAIL
NO SCALE

EXHAUST FAN DETAIL WHEN CONTROLLED
BY A REVERSE ACTING THERMOSTAT
NO SCALE

CONTROL SCHEMATICS AND INPUT/OUTPUT SUMMARY TABLE TO BE USED IN CONJUNCTION WITH SPECIFICATIONS AND CONSTRUCTION DOCUMENTS.
NOTE: NOT ALL CONTROL REQUIREMENTS ARE REPRESENTED IN SCHEMATICS.

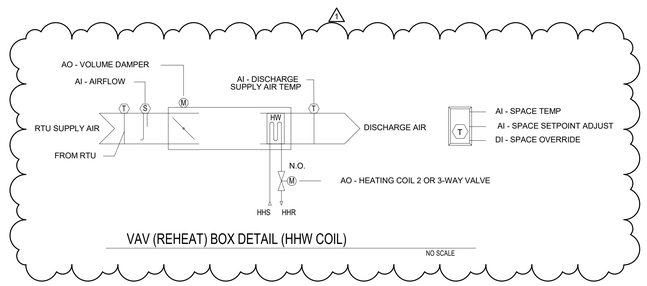
2-WAY AND 3-WAY CONTROL VALVES TO BE AS INDICATED ON PIPING PLANS AND COIL DETAILS.

TEMPERATURE SENSOR OR MULTI-FUNCTION SENSOR TO BE AS INDICATED ON TEMPERATURE CONTROL PLANS.

INPUT/OUTPUT SUMMARY TABLE

POINT DESCRIPTION	AI	AO	DI	DO	TREND	ALARM	GRAPHIC
1 VVR TERMINAL BOX W/ HHW COIL							
SPACE TEMPERATURE	X				X		X
DISCHARGE SUPPLY AIR TEMP	X				X		X
AIRFLOW	X				X		X
VOLUME DAMPER		X			X		X
1 HEATING COIL 2-WAY/3-WAY VALVE		X			X		X
RTU SUPPLY AIR TEMP	X						X
SPACE OVERRIDE			X				X
1 SPACE SETPOINT ADJUSTMENT	X				X		X
CABINET/PROPELLER UNIT HEATERS							
FAN START/STOP				X			X
SPACE TEMPERATURE	X				X		X
HEATING COIL 2-WAY/3-WAY VALVE		X			X		X
GLOBAL POINTS							
OUTSIDE AIR TEMPERATURE	X				X		X
OUTSIDE AIR HUMIDITY	X				X		X
OUTSIDE AIR BAROMETRIC PRESSURE	X				X		X
OUTSIDE AIR CARBON DIOXIDE	X				X		X
TECHNOLOGY ROOMS TEMPERATURE	X				X	X	X
CARBON MONOXIDE SENSOR(S)						X	

EXHAUST FAN DETAIL WHEN CONTROLLED BY THE DIVISION 26 CONTRACTOR
(TIMER SWITCH)
NO SCALE



VAV (REHEAT) BOX DETAIL (HHW COIL)
NO SCALE

EXHAUST FANS CONTROLLED BY REVERSE ACTING THERMOSTAT							
FAN STATUS			X			X	X
FAN START/STOP				X		X	X
SPACE TEMPERATURE	X				X		X
EXHAUST FAN CONTROLLED BY DIVISION 26 CONTRACTOR (TIMER SWITCH)							
FAN STATUS			X			X	X
FAN START/STOP				X		X	X
CONTROL BY DIVISION 26			X				X

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

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CONSULTANT

CONSTRUCTION DOCUMENTS

TIMOTHY C. LEHMAN REGISTERED No. PE 19910147 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: KPR
PROJECT NUMBER: 223139.00
PROJECT ISSUE DATE: 01.22.2024

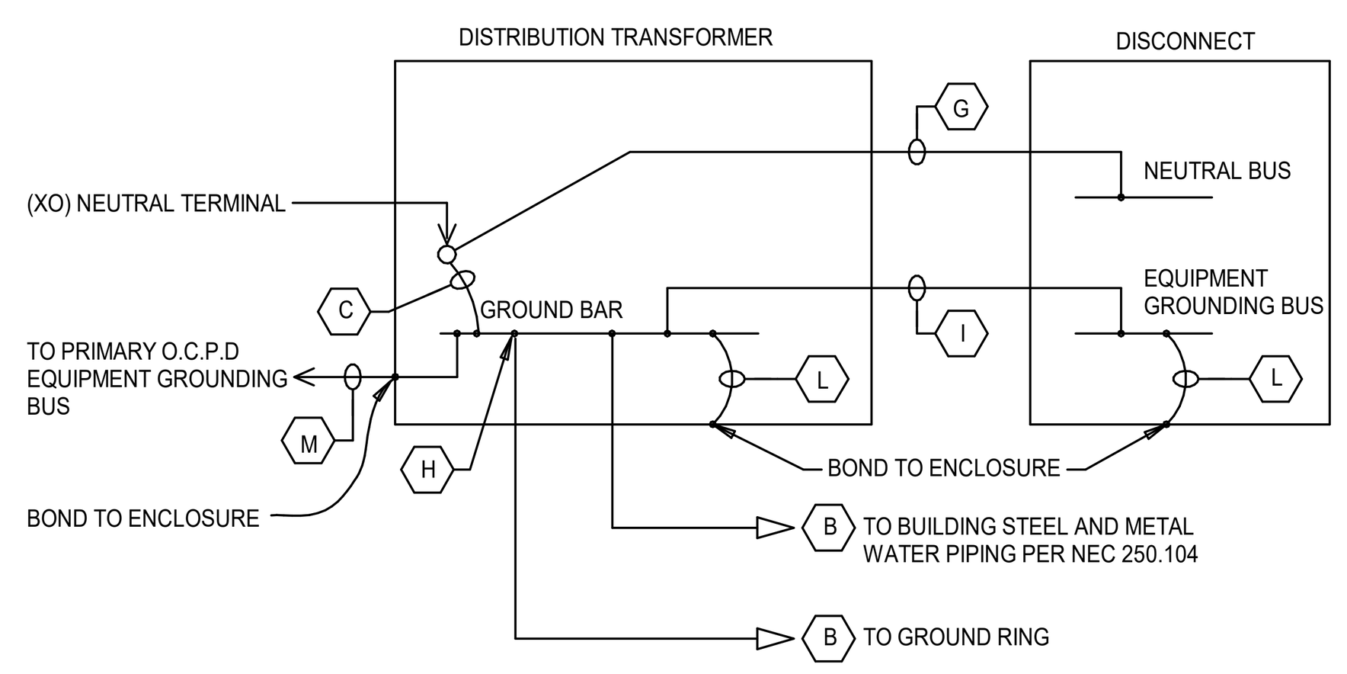
REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2.14.2024

TEMPERATURE CONTROL DIAGRAMS

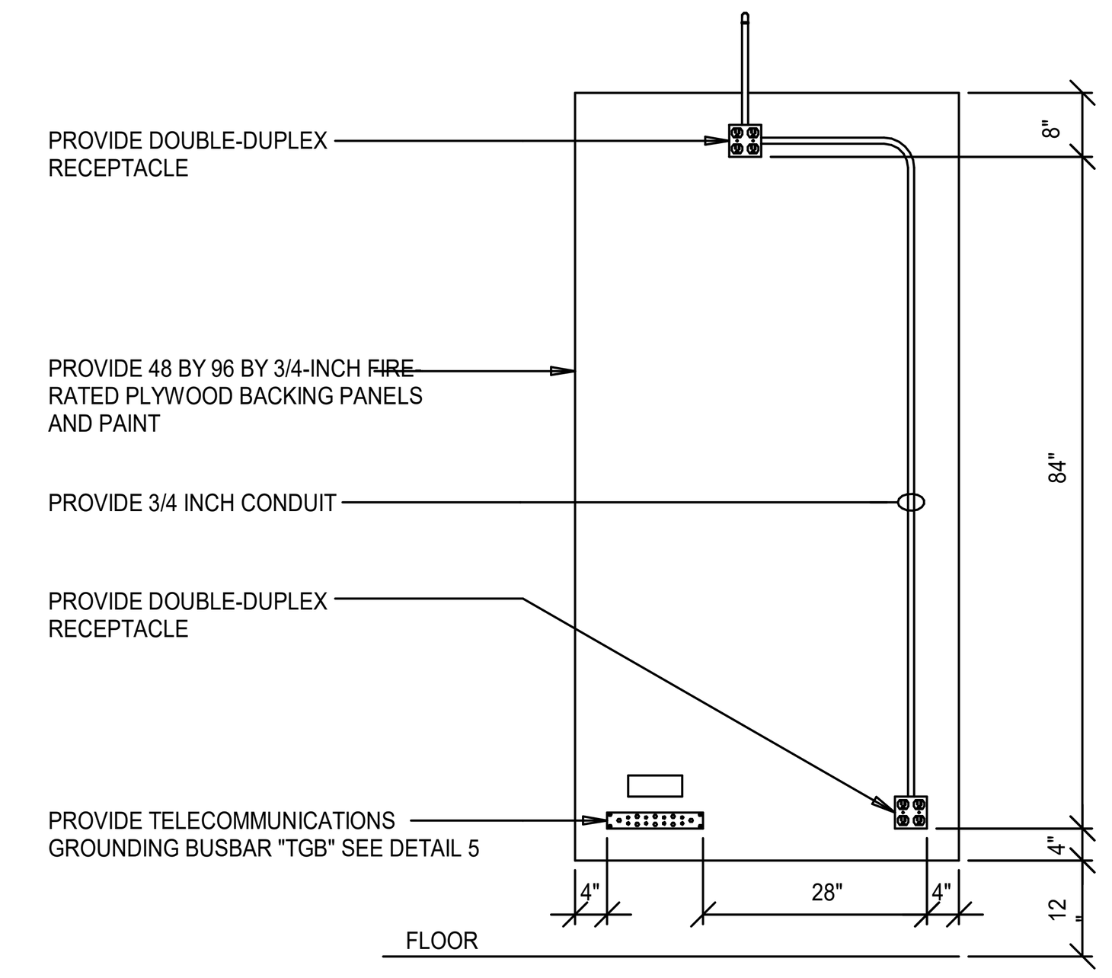
M6.01

GROUNDING CODED NOTES:

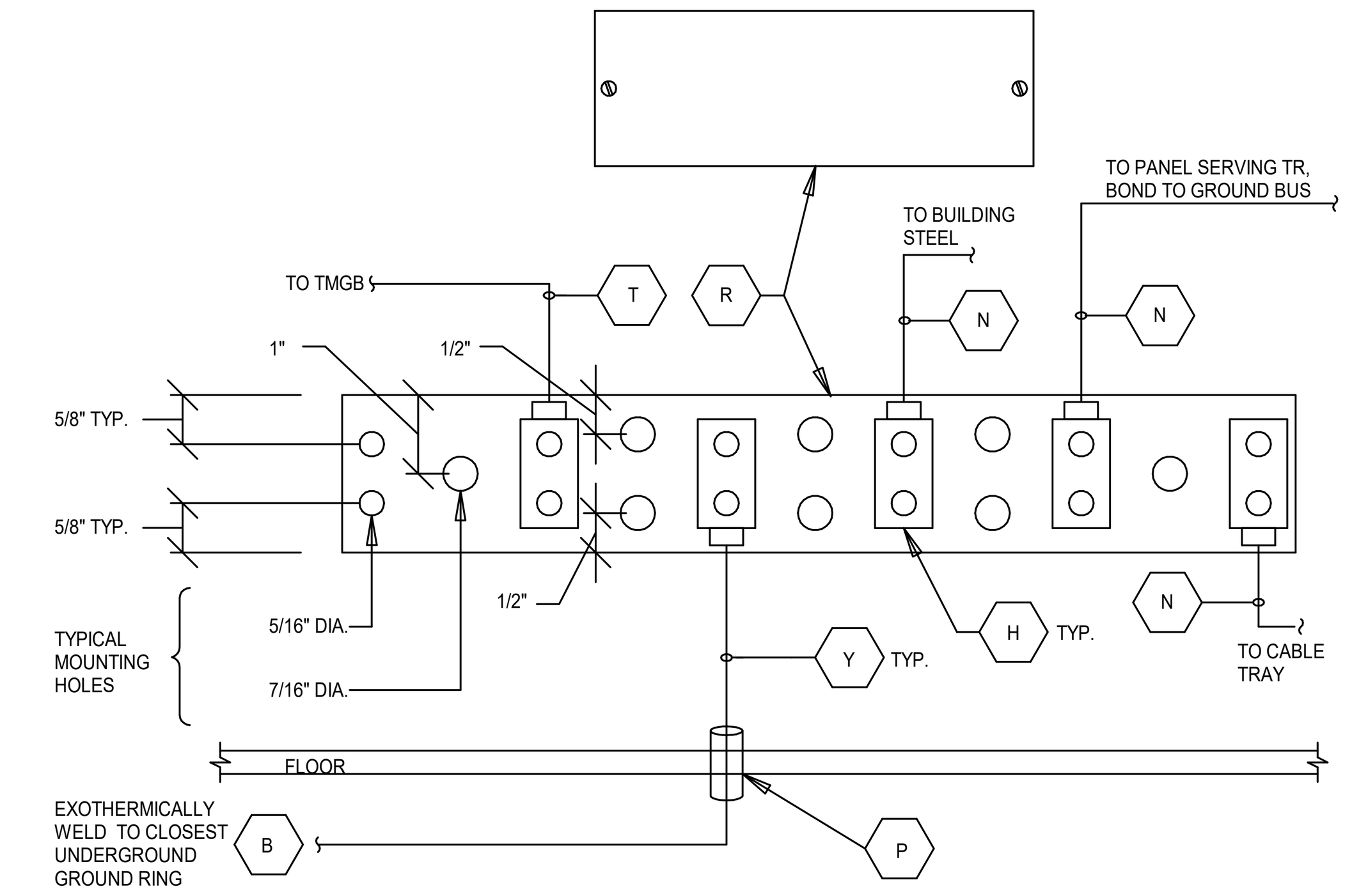
- A — GROUNDING ELECTRODE CONDUCTOR. BARE, TINNED, STRANDED, COPPER-CONDUCTOR. (30 INCHES BELOW GRADE, MIN.) (24 INCHES FROM FOUNDATION, MIN.) FOR ELECTRICAL SERVICE OF 800 AMP OR LESS USE #2/0 AWG. FOR ELECTRICAL SERVICE GREATER THAN 800 AMP USE #4/0 AWG.
- B — GROUNDING CONDUCTOR. 2/0 AWG BARE, TINNED, STRANDED, COPPER-CONDUCTOR.
- C — IRREVERSIBLE, COPPER, COMPRESSION CONNECTOR. (CABLE TO CABLE)
- D — IRREVERSIBLE, COPPER, COMPRESSION CONNECTOR. (CABLE TO TRAY) BOND EACH SECTION, TRANSISTION, RISER, TEE, ETC.
- E — MAIN BONDING JUMPER PROVIDED BY MANUFACTURER AS PART OF LISTED AND LABELED SERVICE EQUIPMENT. IF NOT PROVIDED BY MANUFACTURER, PROVIDE #4/0 BARE, TINNED, STRANDED, COPPER-CONDUCTOR.
- F — GROUNDING ELECTRODE CONDUCTOR: #4/0 AWG STRANDED, BARE, COPPER IN PVC CONDUIT.
- G — GROUNDED CONDUCTOR (NEUTRAL): (REFER TO ONE-LINE DIAGRAM FOR CONDUCTOR SIZE).
- H — PROVIDE UL 467 LISTED COMPRESSION CONNECTORS, TWO-HOLE LUGS.
- I — SYSTEM BONDING JUMPER CONDUCTOR. SYSTEM BONDING JUMPER CONDUCTOR TO BE RUN IN EACH CONDUIT CONTAINING PHASE CONDUCTORS BETWEEN TRANSFORMER AND MAIN SECONDARY DISCONNECT. (REFER TO ONE-LINE DIAGRAM FOR CONDUCTOR SIZE)
- JJ — 10 FOOT BY 3/4" COPPER WELD GROUND ROD. TOP OF RAD SHALL BE 12" MINIMUM BELOW FINISHED GRADE.
- J — 8 FOOT BY 5/8" COPPER WELD GROUND ROD. TOP OF ROD SHALL BE 12" MINIMUM BELOW FINISHED GRADE.
- K — PROVIDE EXOTHERMIC WELD FOR ALL CABLE TO ROD, CABLE TO CABLE, OR CABLE TO STEEL CONNECTIONS.
- L — EQUIPMENT BONDING JUMPER STRANDED, BARE, COPPER. (<110A USE #6, <410A USE #2, <810A USE #2/0, <2100A USE #4/0) SCREW OF BUSBAR MAY BE USED WHEN PROVIDED AS PART OF LISTED SERVICE EQUIPMENT.
- M — EQUIPMENT GROUNDING CONDUCTOR (REFER TO ONE LINE DIAGRAM FOR CONDUCTOR SIZE).
- N — TELECOMMUNICATIONS BONDING BACKBONE: #4/0 AWG STRANDED BARE COPPER.
- O — BONDING CONDUCTOR: 6 AWG STRANDED BARE COPPER.
- P — 1" PVC SLEEVE FOR ALL GROUNDING CONDUCTORS THROUGH FLOOR SLABS. NEVER ROUTE GROUNDING CONDUCTORS IN A METAL CONDUIT.
- Q — PROVIDE UL 467 LISTED, ELECTRO-TIN-PLATED COPPER BUSBAR, 4" x 20" x 1/4" WITH (2) 2-INCH INSULATED STANDOFF SUPPORTS. PROVIDE ENGRAVED NAMEPLATE, SCREWED TO WALL, 6" ABOVE GROUNDING BUS BAR WHICH READS "IF THESE CONNECTORS OR CABLES ARE LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
- R — PROVIDE UL 467 LISTED, ELECTRO-TIN-PLATED COPPER BUSBAR, 2" x 12" x 1/4" WITH (2) 2-INCH INSULATED STANDOFF SUPPORTS. PROVIDE ENGRAVED NAMEPLATE SCREWED TO WALL, 6" ABOVE GROUNDING BUS BAR WHICH READS, "IF THESE CONNECTORS OR CABLES ARE LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
- S — PROVIDE UL 467 LISTED, ELECTRO-TIN-PLATED COPPER BUSBAR, 4" x 20" x 1/4" WITH (2) 2-INCH INSULATED STANDOFF SUPPORTS. PROVIDE ENGRAVED NAMEPLATE, SCREWED TO WALL, 6" ABOVE GROUNDING BUS BAR WHICH READS "WARNING - SHOCK HAZARD EXISTS IF GROUNDING ELECTRODE CONDUCTOR OR BONDING JUMPER CONNECTION IN THIS EQUIPMENT IS REMOVED WHILE ALTERNATE SOURCE (GENERATOR) IS ENERGIZED".
- T — CONTINUOUS, UNSPLICED BONDING CONDUCTOR FOR TELECOMMUNICATIONS: 2/0 AWG BARE, TINNED, STRANDED, COPPER-CONDUCTOR IN CABLE TRAYS.
- U — BRAIDED ALUMINUM CABLE FOR LIGHTING DOWNRUNNER. SUPPORT SPACING PER NFPA 780.
- V — CONNECT GROUND CABLE TO EXISTING SERVICE GROUNDING ELECTRODE AT UTILITY TRANSFORMER OR MAIN SWITCHBOARD GROUND BAR.
- W — CONNECT TO EXISTING BUILDING GROUND LOOP IF FOUND, DISTURBED, OR DAMAGED, PROVIDE (K) AT ALL SPLICES AND NEW CABLE CONNECTIONS.
- X — WELD A MINIMUM 6" x 3" x 1/4" STEEL PLATE TO UNDERSIDE OF BOTTOM FLANGE OF ROOF JOIST. THE STEEL PLATE SHALL BE WELDED TO THE BOTTOM FLANGE USING A NORMAL WELDING PROCEDURE WITH WELDS PARALLEL TO THE BOTTOM FLANGE ALONG THE EDGE. THEN BOND THE GROUNDING CONDUCTOR TO THE STEEL PLATE AT LEAST 1" AWAY FROM FLANGE, USING AN EXOTHERMIC WELD.
- Y — PROVIDE WRAP AROUND PLASTIC LABEL ON EACH CONDUCTOR AT GROUND BAR. IDENTIFY WHAT THE CABLE IS CONNECTED TO.



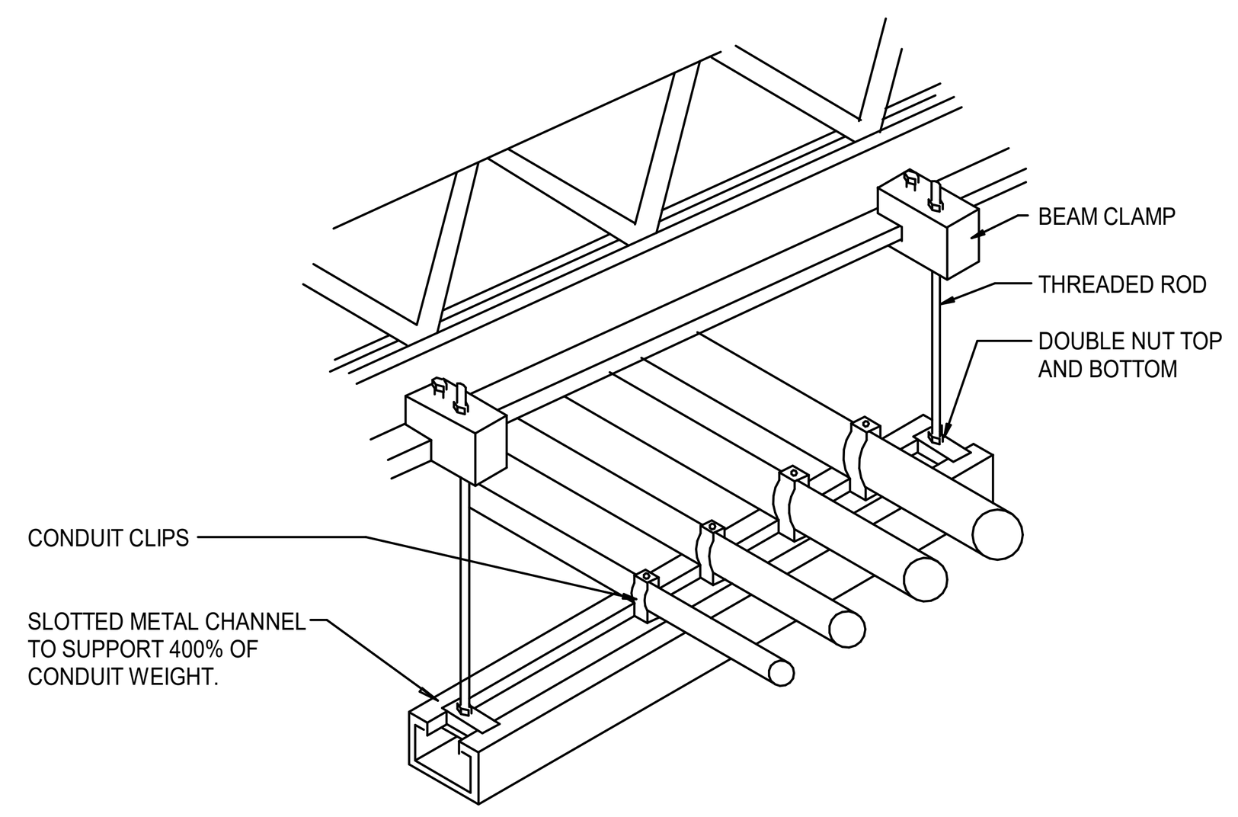
1 DISTRIBUTION TRANSFORMER GROUNDING DETAIL
NO SCALE



2 TYPICAL TR BACKBOARD
NO SCALE

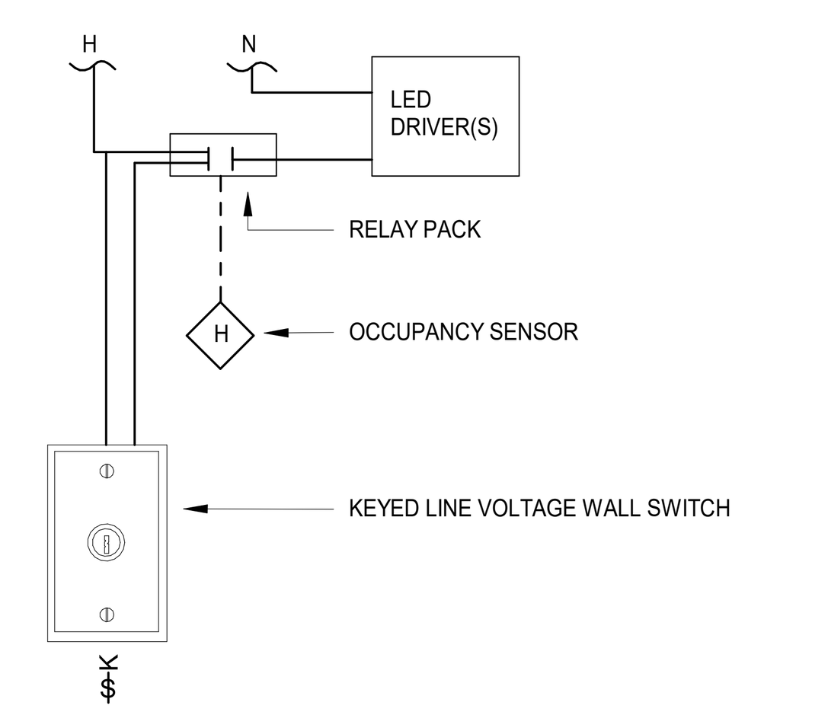


3 TYPICAL TR TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) DETAIL
NO SCALE



4 2.5" & UP CONDUIT SUPPORT DETAIL
NO SCALE

1. SYSTEM SHALL BE SET UP SUCH THAT LIGHTING IS SWITCHED ON BY OCCUPANCY SENSOR AND SWITCHED OFF AFTER 15 MINUTES OF VACANCY.
2. HALLWAY LIGHTS SHALL BE CONTROLLED IN ZONES WITH ONE OCCUPANCY SENSOR PER ZONE.
3. SWITCH SHALL OVERRIDE FIXTURES ON/OFF.
4. EMERGENCY FIXTURES SHALL OPERATE AS DESCRIBED ABOVE DURING NORMAL OPERATIONS. IN EMERGENCY SCENARIO OR WHEN FIRE ALARM IS TRIGGERED, FIXTURES WILL COME ON AT 100% OUTPUT. THIS CAN BE ACHIEVED WITH FULL CIRCUIT GENERATOR TRANSFER DEVICE.

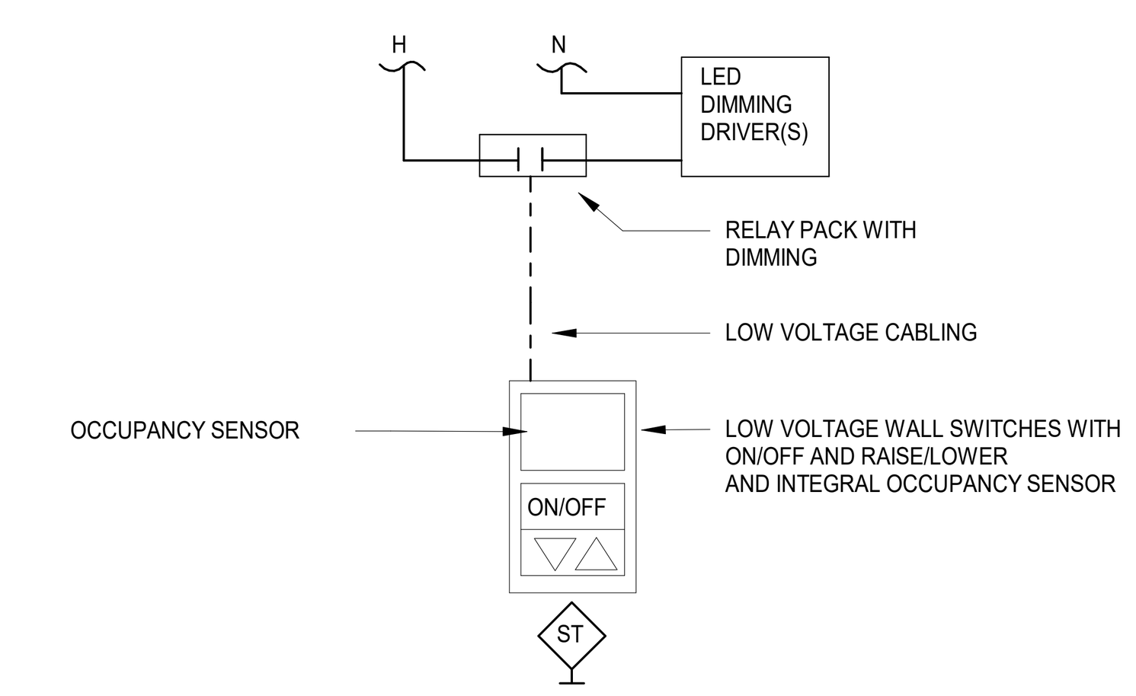


5 LIGHTING CONTROLS - CORRIDOR
NO SCALE

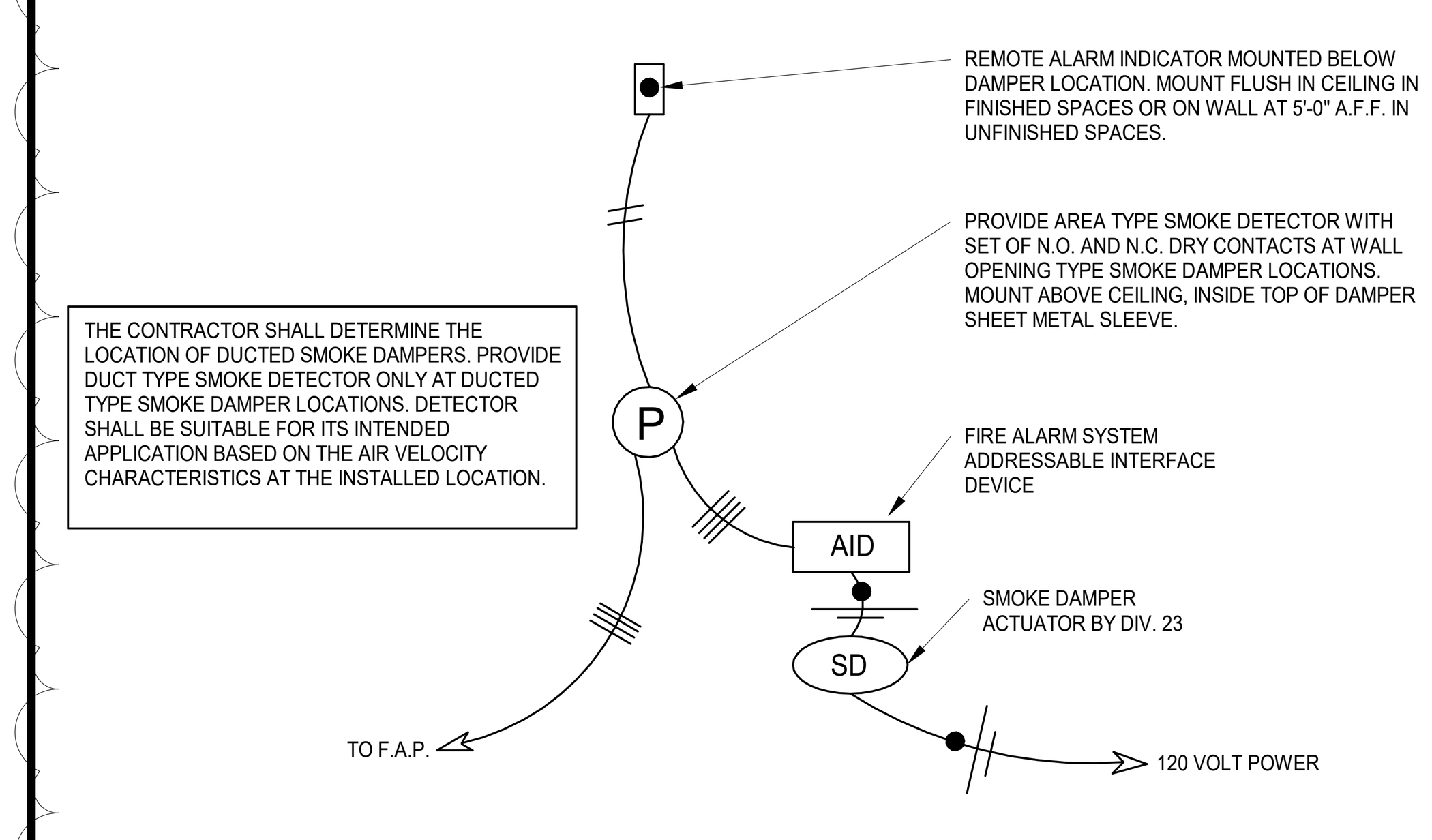
LIGHTING SEQUENCE OF OPERATIONS NOTES:

1. PROVIDE RELAY PACKS AS REQUIRED TO PERFORM NECESSARY SEQUENCE OF OPERATIONS FOR EACH LISTED ABOVE.
2. PROVIDE LOW VOLTAGE WIRING PER MANUFACTURERS RECOMMENDATION.
3. ALL SWITCHES SHALL BE DECORA STYLE.
4. WHERE MULTIPLE CONTROL SWITCHES ARE IN THE SAME LOCATION, THEY SHALL BE IN THE SAME BACK BOX WITH SINGLE FACE PLATE
5. QUANTITY OF OCCUPANCY/VACANCY SENSORS, DAYLIGHT SENSORS, AND SWITCHES SHALL BE PER PLANS.

1. SYSTEM SHALL BE SET UP SUCH THAT LIGHTING IS MANUALLY SWITCHED ON. LIGHTING IS THEN EITHER SWITCHED OFF MANUALLY OR BY OCCUPANCY SENSOR AFTER 15 MINUTES OF ROOM VACANCY.
2. ONCE LIGHTING IS SWITCHED ON, LIGHTS MAY BE DIMMED THROUGH RAISE/LOWER BUTTONS ON WALL SWITCH.

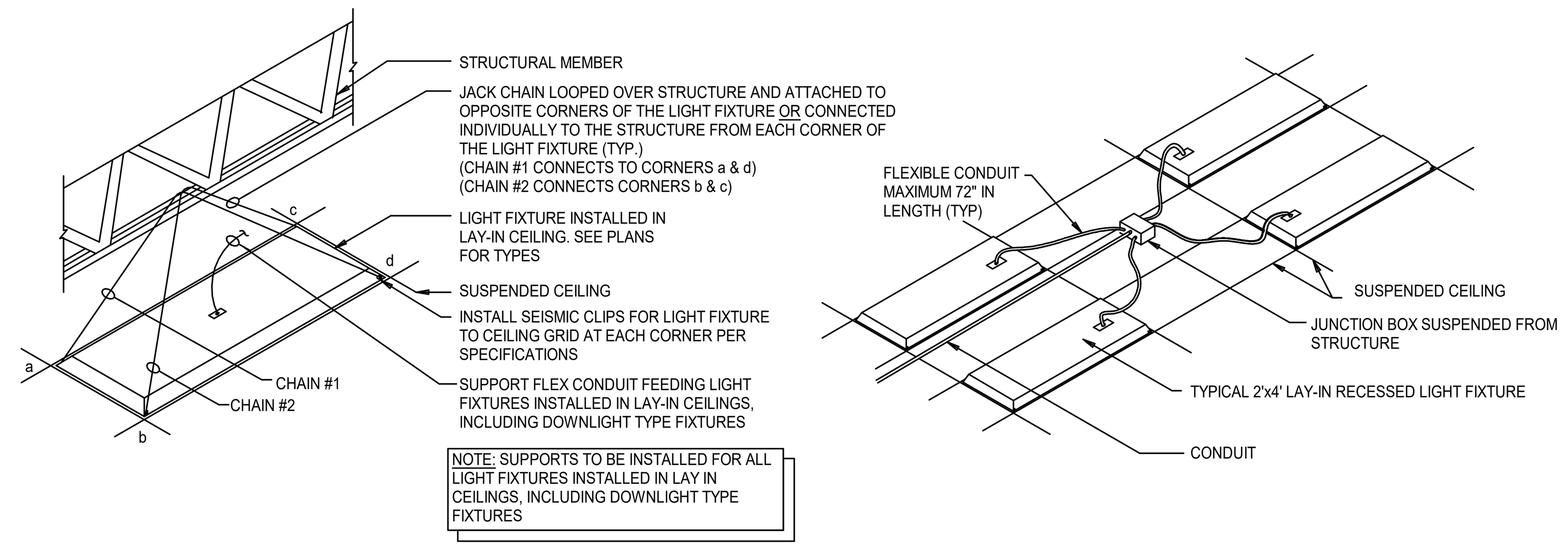


6 LIGHTING CONTROLS - OFFICES
NO SCALE



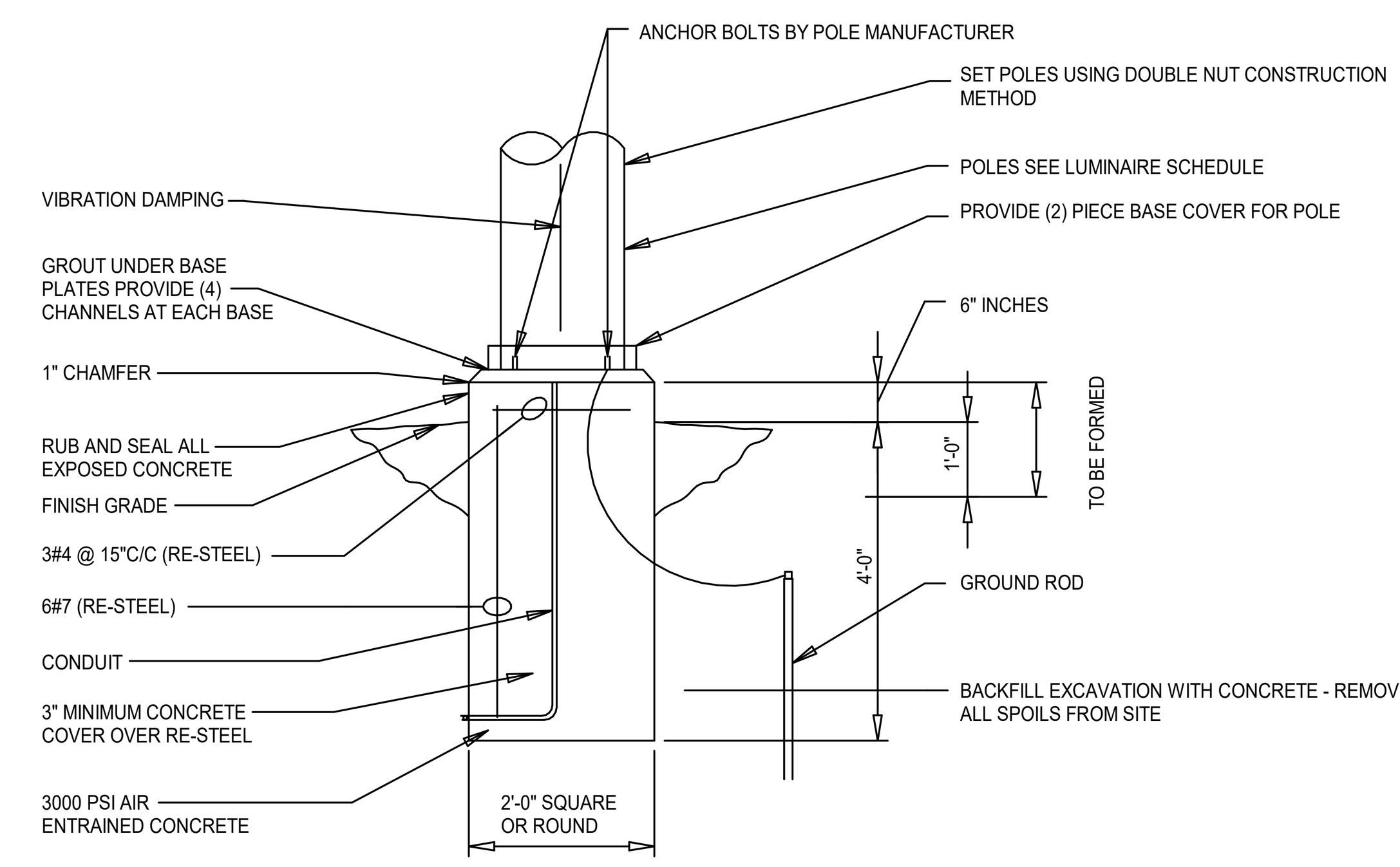
9 SMOKE DAMPER WIRING DETAIL
NO SCALE

1



NOTE: SUPPORTS TO BE INSTALLED FOR ALL LIGHT FIXTURES INSTALLED IN LAY IN CEILINGS, INCLUDING DOWNLIGHT TYPE FIXTURES

7 RECESSED LIGHT FIXTURE SUPPORT
NO SCALE



NOTE:

PROVIDE 5/8" x 8'-0" GROUND ROD AT EACH POLE (TOP AT 2'-0" BELOW GRADE) AND CONNECT TO POLE WITH 1#6 AWG SOLID CU CONDUCTOR IN 1/2" PVC CONDUIT.

TACK WELD ALL ANCHOR BOLT NUTS IN PLACE WHEN POLES ARE SET AND PLUMB. REPAIR FINISH WITH GALCON PAINT.

NEW POLE BASE IS TO MATCH THE EXISTING POLE BASE, THAT IS BEING REMOVED.

8 LIGHTING POLE FOUNDATION DETAIL (15'-0" HIGH OR LESS)
NO SCALE

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

900 MULBERRY ST.
ZIONSVILLE IN, 46077

ZIONSVILLE COMMUNITY SCHOOLS

ARCHITECT

FANNING HOWEY
317.848.0966 WWW.FHAI.COM
350 E NEW YORK ST, SUITE #300, INDIANAPOLIS, IN 46204

CONSULTANT

CONSTRUCTION DOCUMENTS

BRIAN W. BUTLER REGISTERED No. PE1 STATE OF PROFESSIONAL ENGINEER

DRAWN BY: RDR
PROJECT NUMBER: 223139.00
PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02.14.2024

ELECTRICAL DETAILS

E1.02

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2/13/2024 11:19:10 AM

PLAN NOTES:

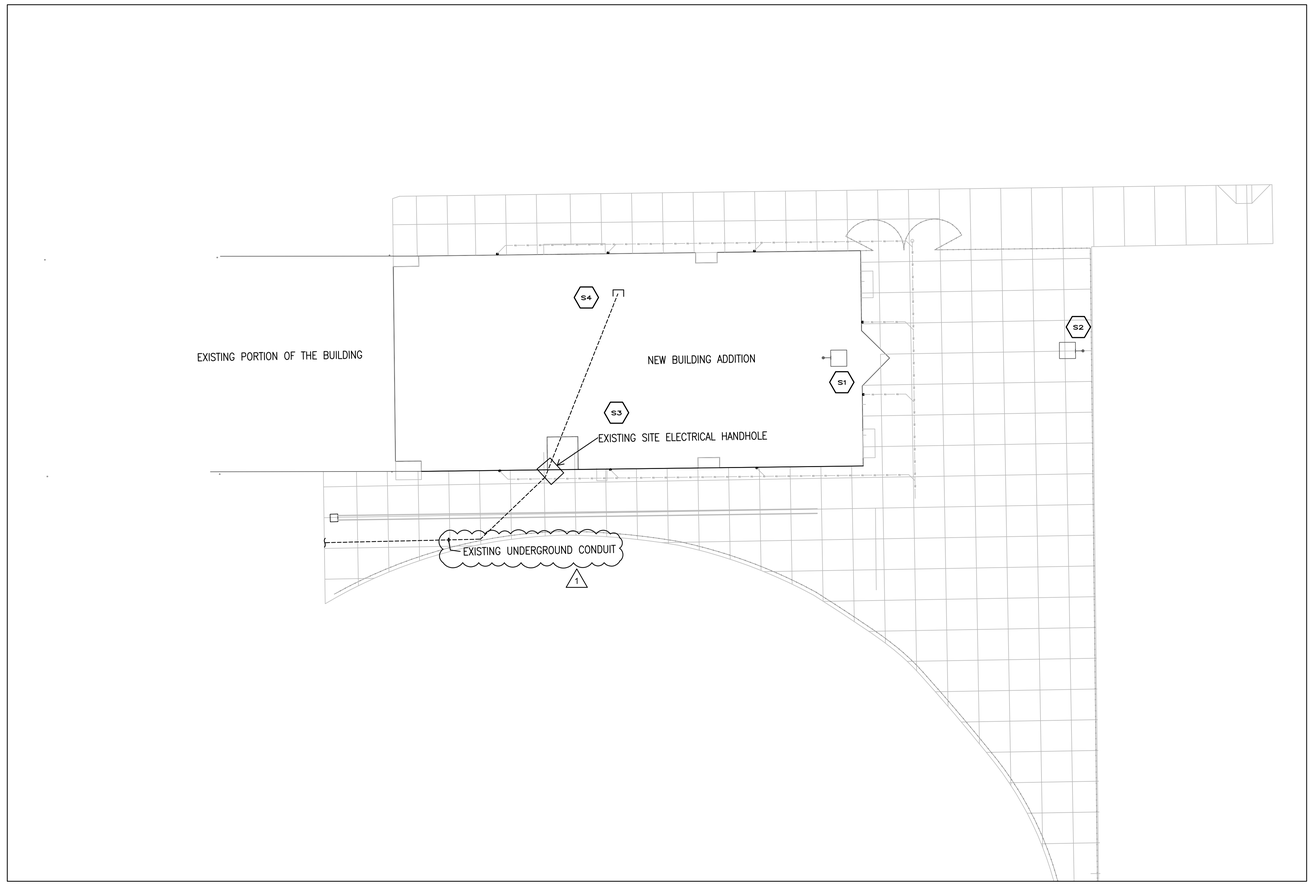
S1 EXISTING LIGHT POLE AND FIXTURE TO BE RELOCATED. EXISTING CONCRETE BASE IS TO BE REMOVED.

S2 NEW LOCATION OF EXISTING LIGHTPOLE AND FIXTURE ON A NEW CONCRETE BASE. EXTEND EXISTING CIRCUITY AND NEW CONDUIT TO NEW LOCATION.

S3 REMOVE EXISTING SITE ELECTRICAL HANDHOLE.

S4 NEW 3–INCH CONDUIT IS TO INTERCEPT EXISTING 3–INCH CONDUIT AND IS TO BE RUN TO THE LOCATION OF NEW PANELBOARD "H5" THEN STUBBED UP ABOVE THE FLOOR.

1



ELECTRICAL SITE PLAN

1" = 20'-0"

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

900 MULBERRY ST.
ZIONSVILLE IN, 46077

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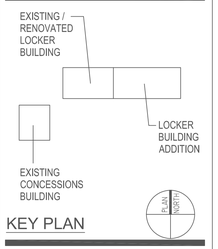

KEY PLAN

CONSTRUCTION DOCUMENTS

BRIAN W. BUTLER REGISTERED No. PE 11600005 STATE OF INDIANA PROFESSIONAL ENGINEER

DRAWN BY: RDR

PROJECT NUMBER: 223139.00

PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02.14.2024

ELECTRICAL SITE PLAN

E2.01

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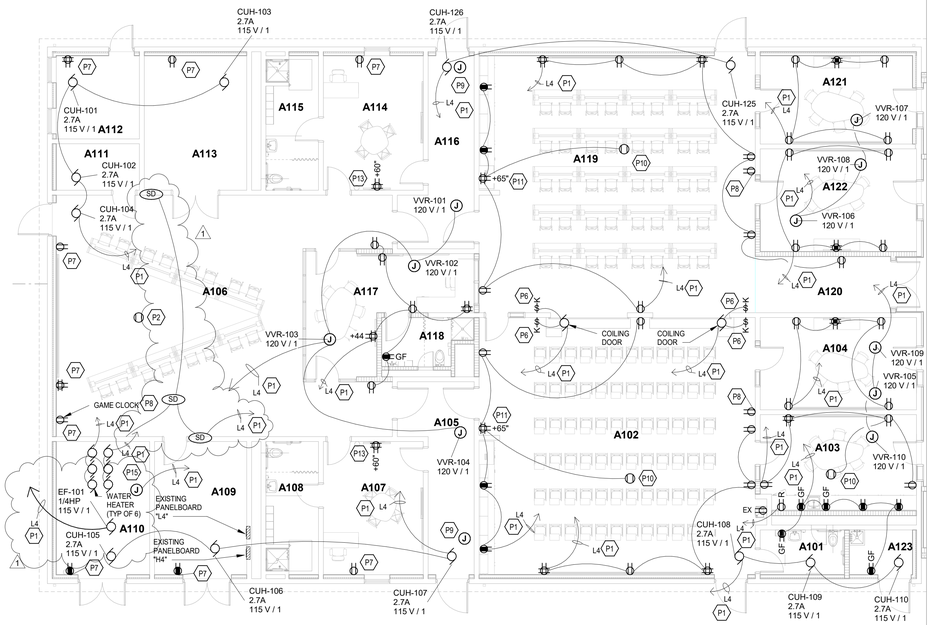
ROOM LEGEND - FIRST FLOOR UNIT A		
ROOM NO.	ROOM NAME	AREA (SF)
A101	TOILET	64 SF
A102	TEAM ROOM	1212 SF
A103	SMALL TEAM ROOM / HOSPITALITY	252 SF
A104	SMALL TEAM ROOM	245 SF
A105	ENTRY	180 SF
A106	TEAM ROOM	1184 SF
A107	COACH	226 SF
A108	COACH RESTROOM	116 SF
A109	STORAGE	209 SF
A110	MECHANICAL	212 SF
A111	FIRE PROTECTION	66 SF
A112	CUSTODIAL / STORAGE	118 SF
A113	STORAGE	234 SF
A114	COACH	229 SF
A115	COACH RESTROOM	118 SF
A116	ENTRY	179 SF
A117	COACH	256 SF
A118	COACH RESTROOM	67 SF
A119	TEAM ROOM	1206 SF
A120	CORRIDOR	130 SF
A121	SMALL TEAM ROOM	229 SF
A122	SMALL TEAM ROOM	273 SF
A123	CUSTODIAL	48 SF



UNIT A - FIRST FLOOR POWER PLAN

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

GENERAL NOTES - POWER

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 90" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

KEYNOTES	
P1	WIRE TO A SPARE 20 AMP, 1-POLE CIRCUIT BREAKER IN THE DESIGNATED PANELBOARD.
P2	VERIFY EXACT LOCATION OF CEILING MOUNTED DUPLEX RECEPTACLE WITH THE VIDEO PROJECTOR LOCATION. WIRE TO EXISTING CEILING MOUNTED RECEPTACLE CIRCUIT.
P6	COILING DOOR CONTROL SWITCH PROVIDED BY THE COILING DOOR MANUFACTURER.
P7	WIRE NEW RECEPTACLE TO THE EXISTING CIRCUIT AT THIS LOCATION.
P8	EXISTING GAME CLOCK RECEPTACLE, MOUNTED UP HIGH.
P9	SECURITY JUNCTION BOX MOUNTED ABOVE CEILING FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST DUPLEX RECEPTACLE CIRCUIT IN THIS ROOM.
P10	NEW CEILING MOUNTED DUPLEX RECEPTACLE FOR THE VIDEO PROJECTOR. COORDINATE EXACT LOCATION IN THE FIELD WITH THE VIDEO PROJECTOR LOCATION.
P11	PROVIDE A DOUBLE DUPLEX RECEPTACLE ADJACENT TO TECHNOLOGY DATA BOX AT 65 INCHES A.F.F., BEHIND THE TEACHERS WARDROBE/TECHNOLOGY CABINET. REFER TO THE "A7" SERIES DRAWINGS FOR CABINET CUT OUT LOCATION PRIOR TO ROUGH-IN.
P13	WIRE NEW RECEPTACLE TO EXISTING RECEPTACLE CIRCUIT IN THIS ROOM.
P15	AUTOMATIC GAS SHUT-OFF SYSTEM BY THE DIVISION 22 CONTRACTOR. VERIFY EXACT LOCATION AND REQUIREMENTS WITH THE INSTALLER PRIOR TO ROUGH-IN.

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ARCHITECT

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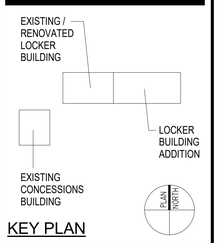
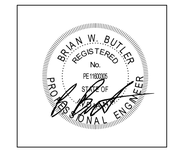


KEY PLAN

CONSTRUCTION DOCUMENTS



DRAWN BY: RDR

PROJECT NUMBER: 223139.00

PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02.14.2024

UNIT A - FIRST FLOOR POWER PLAN

E5.01

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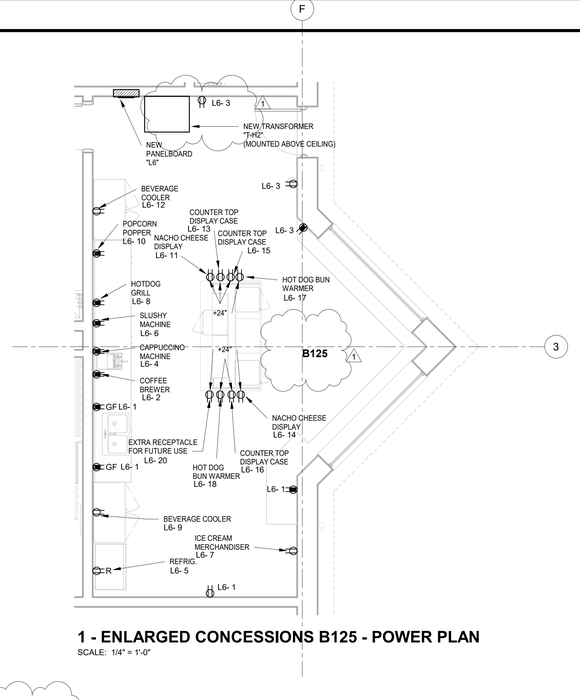
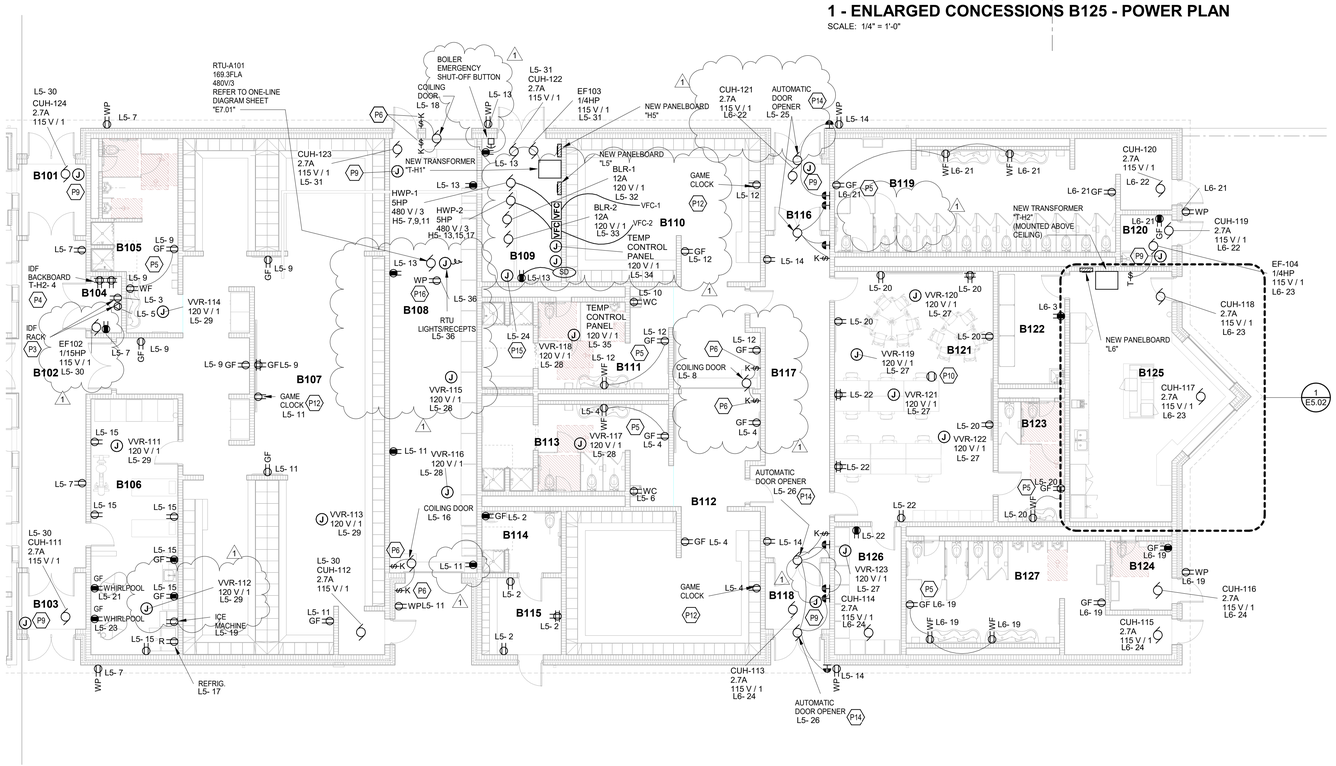


1 - ENLARGED CONCESSIONS B125 - POWER PLAN

SCALE: 1/4" = 1'-0"



UNIT B - FIRST FLOOR POWER PLAN

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

ROOM LEGEND - FIRST FLOOR UNIT B		
ROOM NO.	ROOM NAME	AREA (SF)
B101	VESTIBULE	82 SF
B102	CORRIDOR	424 SF
B103	VESTIBULE	65 SF
B104	IDF	29 SF
B105	SHOWERS / TOILETS	234 SF
B106	TRAINING ROOM	377 SF
B107	LOCKER ROOM	1353 SF
B108	STORAGE	646 SF
B109	MECHANICAL	194 SF
B110	LOCKER ROOM	613 SF
B111	SHOWERS / TOILETS	272 SF
B112	LOCKER ROOM	628 SF
B113	SHOWERS / TOILETS	281 SF
B114	OFFICIALS RESTROOM	82 SF
B115	OFFICIALS LOCKER	104 SF
B116	VESTIBULE	73 SF
B117	CORRIDOR	374 SF
B118	VESTIBULE	73 SF
B119	WOMEN'S RESTROOM	574 SF
B120	CUSTODIAL	45 SF
B121	COACHES OFFICE	676 SF
B122	STORAGE	128 SF
B123	COACHES RR	136 SF
B124	FAMILY RESTROOM	73 SF
B125	CONCESSIONS	507 SF
B126	STORAGE	145 SF
B127	MEN'S RESTROOM	396 SF

GENERAL NOTES - POWER

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. U.N.O.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

KEYNOTES	
P3	TECHNOLOGY RACK (IDF) RECEPTACLE. COORDINATE MOUNTING LOCATION AND INSTALLATION REQUIREMENTS WITH THE TECHNOLOGY CONTRACTOR PRIOR TO ROUGH-IN. WIRE WITH #10 CONDUCTORS.
P4	TECHNOLOGY RACK (IDF) BACKBOARD RECEPTACLES. REFER TO DETAIL "2/E1.03" FOR MOUNTING LOCATIONS AND REQUIREMENTS. WIRE WITH #10 CONDUCTORS.
P5	WIRE RECEPTACLE BEHIND THE WASH FOUNTAIN TO THE GFI FEED THROUGH TERMINALS OF THE ADJACENT GFI RECEPTACLE TO PROTECT THE DOWN STREAM RECEPTACLES.
P6	COILING DOOR CONTROL SWITCH PROVIDED BY THE COILING DOOR MANUFACTURER.
P9	SECURITY JUNCTION BOX MOUNTED ABOVE CEILING FOR THE DOOR SECURITY DEVICES AND POWER. WIRE TO THE NEAREST DUPLEX RECEPTACLE CIRCUIT IN THIS ROOM.
P10	NEW CEILING MOUNTED DUPLEX RECEPTACLE FOR THE VIDEO PROJECTOR. COORDINATE EXACT LOCATION IN THE FIELD WITH THE VIDEO PROJECTOR LOCATION.
P12	MOUNT NEW GAME CLOCK RECEPTACLE AT THE SAME HEIGHT AS THE EXISTING GAME CLOCK RECEPTACLES IN UNIT "A"
P14	AUTOMATIC DOOR OPENER MOTOR, PUSH BUTTONS AND KEYED SWITCH BY THE UNIT MANUFACTURER. CONUITS, BACKBOXES AND POWER WIRING ARE PROVIDED BY THE DIVISION 26 CONTRACTOR PER THE MANUFACTURERS REQUIREMENTS. LOCATIONS SHOWN ON THIS DRAWING SHEET ARE FOR REFERENCE ONLY. VERIFY EXACT LOCATIONS WITH OPENER INSTALLER PRIOR TO ROUGH-IN.
P15	AUTOMATIC GAS SHUT-OFF SYSTEM BY THE DIVISION 22 CONTRACTOR. VERIFY EXACT LOCATION AND REQUIREMENTS WITH THE INSTALLER PRIOR TO ROUGH-IN.
P16	RECEPTACLE IS TO BE MOUNTED TO WALL ADJACENT TO THE ROOFTOP RTU-A101.

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

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ARCHITECT

FANNING HOWEY

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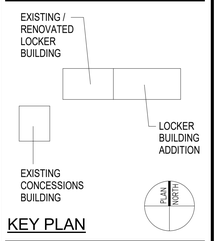

KEY PLAN

CONSTRUCTION DOCUMENTS

BRIAN W. BUTLER REGISTERED No. PE10000 STATE OF PROFESSIONAL ENGINEER

DRAWN BY: RDR

PROJECT NUMBER: 223139.00

PROJECT ISSUE DATE: 01.22.2024

REV. NO.△	DESCRIPTION	DATE
1	ADDENDUM #1	02.14.2024

UNIT B - FIRST FLOOR POWER PLAN

E5.02

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ROOM LEGEND - FIRST FLOOR UNIT A		
ROOM NO.	ROOM NAME	AREA (SF)
A101	TOILET	64 SF
A102	TEAM ROOM	1212 SF
A103	SMALL TEAM ROOM / HOSPITALITY	252 SF
A104	SMALL TEAM ROOM	245 SF
A105	ENTRY	180 SF
A106	TEAM ROOM	1184 SF
A107	COACH	226 SF
A108	COACH RESTROOM	116 SF
A109	STORAGE	209 SF
A110	MECHANICAL	212 SF
A111	FIRE PROTECTION	66 SF
A112	CUSTODIAL / STORAGE	118 SF
A113	STORAGE	234 SF
A114	COACH	229 SF
A115	COACH RESTROOM	118 SF
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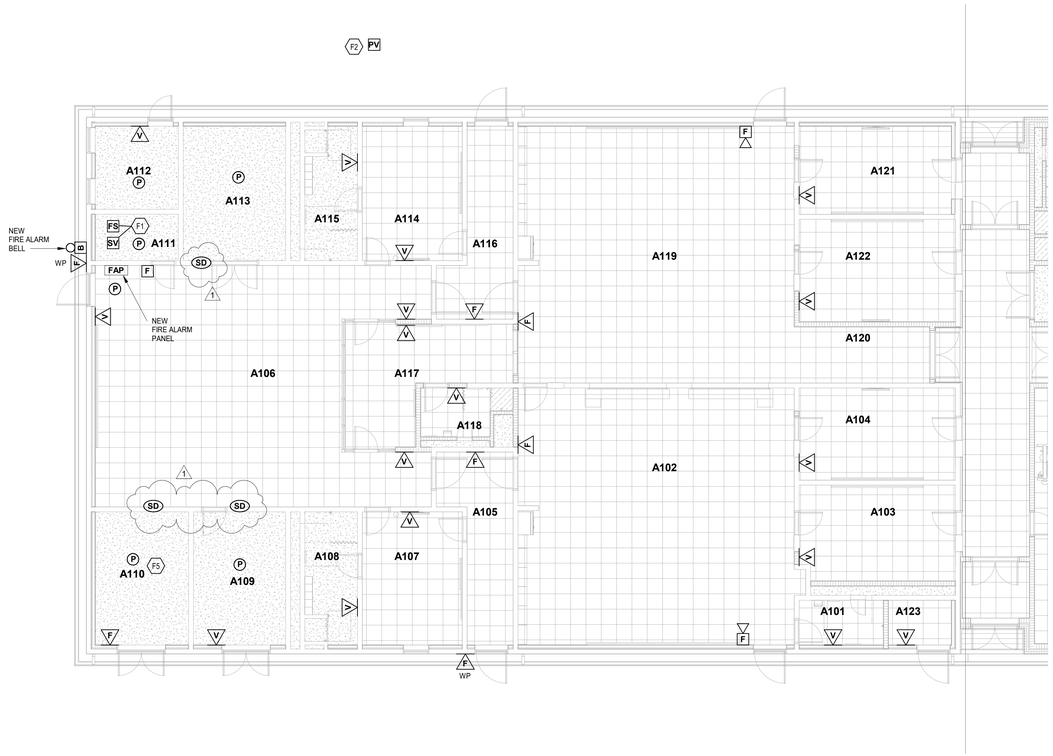
A118	COACH RESTROOM	67 SF
A119	TEAM ROOM	1206 SF
A120	CORRIDOR	130 SF
A121	SMALL TEAM ROOM	229 SF
A122	SMALL TEAM ROOM	273 SF
A123	CUSTODIAL	48 SF



UNIT A - FIRST FLOOR FIRE ALARM PLAN

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

GENERAL NOTES - FIRE ALARM

1. QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL.
2. FIRE ALARM LAYOUT IS SHOWN FOR COVERAGE AREA ONLY. CONTRACTOR SHALL PROVIDE DEVICES AS REQUIRED FOR COMPLETE COVERAGE.
3. PROVIDE A 20 AMP, 120V CIRCUIT AS REQUIRED FOR NEW NAC PANEL THAT IS ADDED.
4. REUSE EXISTING FIRE ALARM BACK BOXES AND CONDUIT WHERE POSSIBLE FOR NEW FIRE ALARM DEVICES.

KEYNOTES	
F1	WIRE ALL EXISTING FLOW SWITCHES AND SUPERVISORY VALVES TO THE NEW FIRE ALARM SYSTEM.
F2	WIRE EXISTING POST INDICATOR VALVE TAMPER SWITCH TO THE NEW FIRE ALARM SYSTEM.
F5	PROVIDE A CO2 (CARBON DIOXIDE) DETECTOR IN THIS ROOM AND INTEGRATE WITH THE FIRE ALARM SYSTEM.

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

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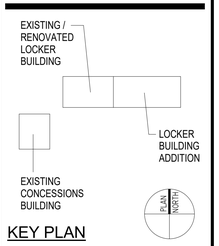

KEY PLAN

CONSTRUCTION DOCUMENTS

DRAWN BY: RDR

PROJECT NUMBER: 223139.00

PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02.14.2024

UNIT A - FIRST FLOOR FIRE ALARM PLAN

E6.01

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ROOM LEGEND - FIRST FLOOR UNIT B		
ROOM NO.	ROOM NAME	AREA (SF)
B101	VESTIBULE	82 SF
B102	CORRIDOR	424 SF
B103	VESTIBULE	65 SF
B104	IDF	29 SF
B105	SHOWERS / TOILETS	234 SF
B106	TRAINING ROOM	377 SF
B107	LOCKER ROOM	1353 SF
B108	STORAGE	646 SF
B109	MECHANICAL	194 SF
B110	LOCKER ROOM	613 SF
B111	SHOWERS / TOILETS	272 SF
B112	LOCKER ROOM	628 SF
B113	SHOWERS / TOILETS	281 SF
B114	OFFICIALS RESTROOM	82 SF
B115	OFFICIALS LOCKER	104 SF
B116	VESTIBULE	73 SF
B117	CORRIDOR	374 SF
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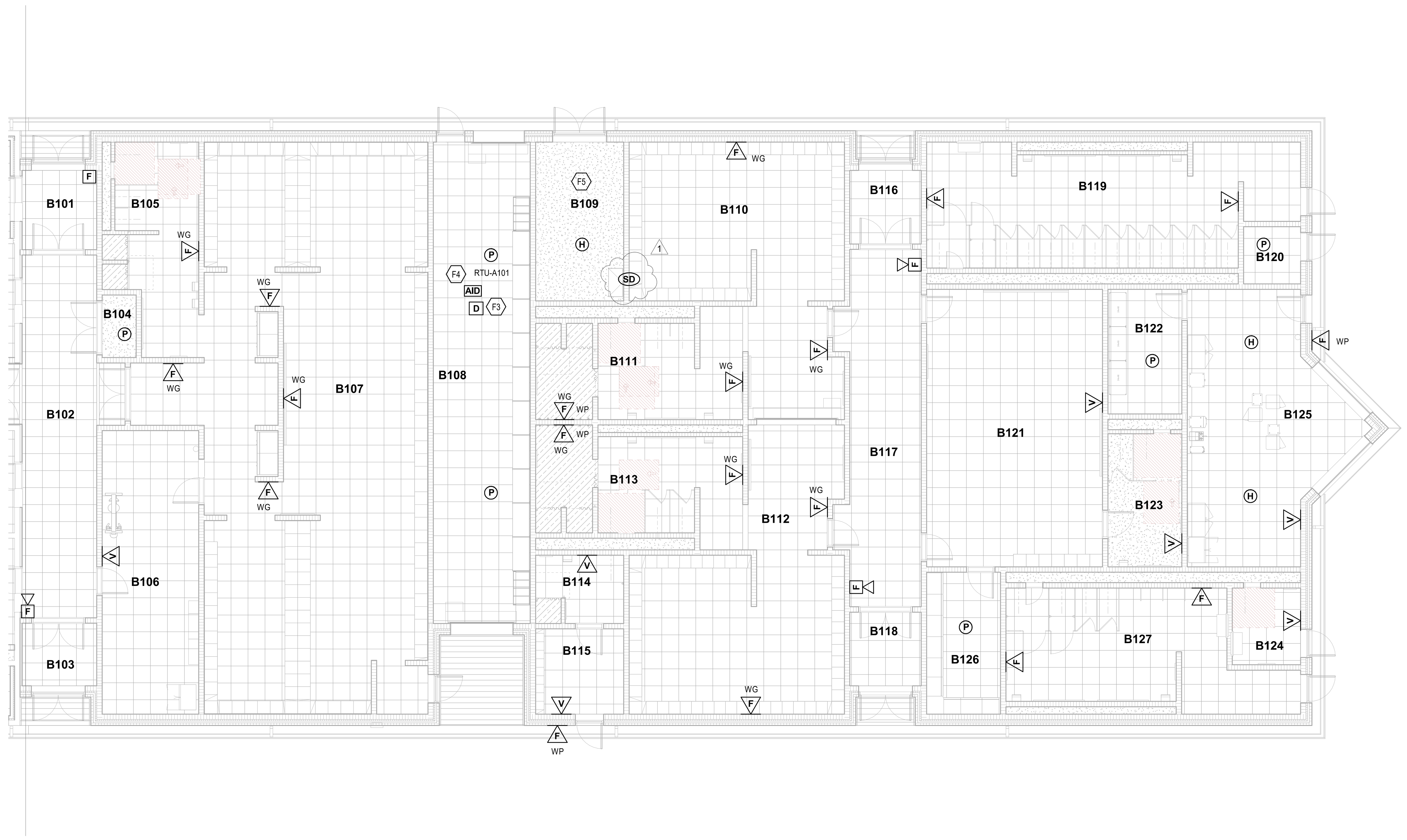
B119	WOMEN'S RESTROOM	574 SF
B120	CUSTODIAL	45 SF
B121	COACHES OFFICE	676 SF
B122	STORAGE	128 SF
B123	COACHES RR	136 SF
B124	FAMILY RESTROOM	73 SF
B125	CONCESSIONS	507 SF
B126	STORAGE	145 SF
B127	MEN'S RESTROOM	396 SF

GENERAL NOTES - FIRE ALARM

1. QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL.
2. FIRE ALARM LAYOUT IS SHOWN FOR COVERAGE AREA ONLY. CONTRACTOR SHALL PROVIDE DEVICES AS REQUIRED FOR COMPLETE COVERAGE.
3. PROVIDE A 20 AMP, 120V CIRCUIT AS REQUIRED FOR NEW NAC PANEL THAT IS ADDED.
4. REUSE EXISTING FIRE ALARM BACK BOXES AND CONDUIT WHERE POSSIBLE FOR NEW FIRE ALARM DEVICES.

KEYNOTES	
F3	PROVIDE A DUCT MOUNTED SMOKE DETECTOR ON EACH OF THE SUPPLY AND RETURN AIR DUCTS FOR THIS MECHANICAL UNIT AT THIS LOCATION. VERIFY EXACT QUANTITIES IN THE FIELD.
F4	PROVIDE A DUCT MOUNTED RELAY.
F5	PROVIDE A CO2 (CARBON DIOXIDE) DETECTOR IN THIS ROOM AND INTEGRATE WITH THE FIRE ALARM SYSTEM.



UNIT B - FIRST FLOOR FIRE ALARM PLAN

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

ZIONSVILLE COMMUNITY HIGH SCHOOL STADIUM LOCKER BUILDING ADDITION AND RENOVATION

900 MULBERRY ST.
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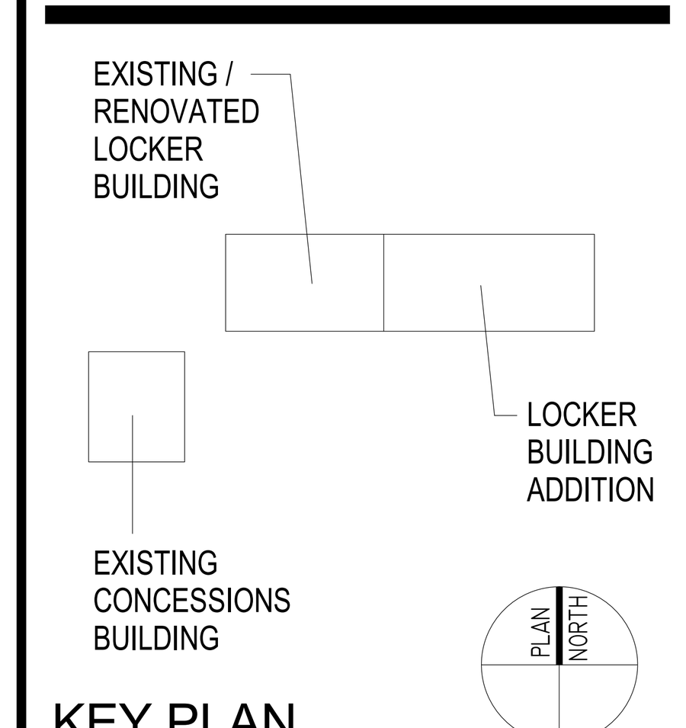
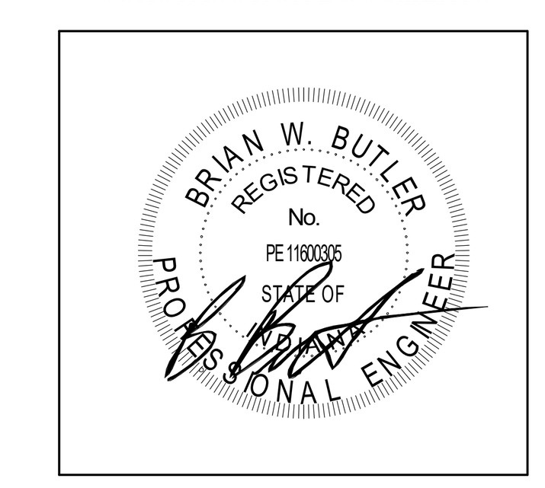


KEY PLAN

CONSTRUCTION DOCUMENTS



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PROJECT NUMBER: 223139.00
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UNIT B - FIRST FLOOR FIRE ALARM PLAN

E6.02

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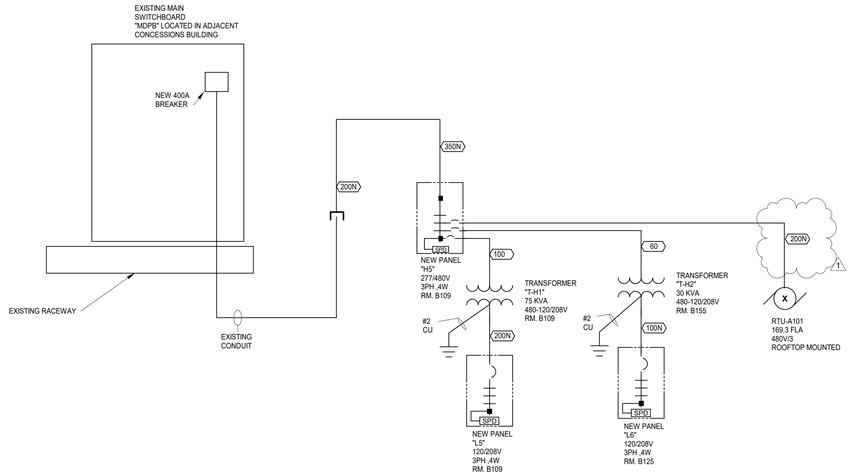

ONE - LINE DIAGRAM

NO SCALE

COPPER FEEDER SCHEDULE

SOURCE 2014 NEC T310.15(B)(16), COPPER 75C, (THHW, THW, THWN, XHHW)

X	NO.	CONDUCTOR SIZE			CONDUIT
FEEDER	OF	PHASE	NEUTRAL	GROUND	SIZE
LEGEND	SETS	QTY	(1)	(1)	Inches
15	1	3 # 14		#14	3/4
15N	1	3 # 14	#14	#14	3/4
20	1	3 # 12		#12	3/4
20N	1	3 # 12	#12	#12	3/4
30	1	3 # 10		#10	3/4
30N	1	3 # 10	#10	#10	3/4
40	1	3 # 8		#10	3/4
40N	1	3 # 8	#8	#10	3/4
60	1	3 # 6		#10	1
60N	1	3 # 6	#6	#10	1
80	1	3 # 4		#8	1 1/4
80N	1	3 # 4	#4	#8	1 1/4
100	1	3 # 3		#8	1 1/2
100N	1	3 # 3	#3	#8	1 1/2
125	1	3 # 1		#6	2
125N	1	3 # 1	#1	#6	2
150	1	3 # 1/0		#6	2
150N	1	3 # 1/0	#1/0	#6	2
175	1	3 # 2/0		#6	2
175N	1	3 # 2/0	#2/0	#6	2
200	1	3 # 3/0		#6	2
200N	1	3 # 3/0	#3/0	#6	2
225	1	3 # 4/0		#4	2 1/2
225N	1	3 # 4/0	#4/0	#4	2 1/2
250	1	3 # 250		#4	2 1/2
250N	1	3 # 250	#250	#4	2 1/2
300	1	3 # 350		#3	3
300N	1	3 # 350	#350	#3	3
350	1	3 # 500		#3	4
350N	1	3 # 500	#500	#3	4
400	1	3 # 600		#3	4
400N	1	3 # 600	#600	#3	4
500	2	3 # 250		#2	2 1/2
500N	2	3 # 250	#250	#2	2 1/2
600	2	3 # 350		#1	3
600N	2	3 # 350	#350	#1	3
800	2	3 # 600		#1/0	4
800N	2	3 # 600	#600	#1/0	4
1000	3	3 # 400		#2/0	3
1000N	3	3 # 400	#400	#2/0	3
1200	3	3 # 600		#3/0	4
1200N	3	3 # 600	#600	#3/0	4
1600	4	3 # 600		#4/0	4
1600N	4	3 # 600	#600	#4/0	4
2000	5	3 # 600		#250	4
2000N	5	3 # 600	#600	#250	4
2500	6	3 # 600		#350	4
2500N	6	3 # 600	#600	#350	4
3000	7	3 # 600		#400	4
3000N	7	3 # 600	#600	#400	4
3300	8	3 # 600		#400	4
3300N	8	3 # 600	#600	#400	4
3700	9	3 # 600		#400	4
3700N	9	3 # 600	#600	#400	4

ONE LINE DIAGRAM SYMBOLS

1AL1	MAIN LUG ONLY CIRCUIT BREAKER PANELBOARD, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	DM	DIGITAL ELECTRONIC POWER METER	FVNR	COMBINATION MAGNETIC MOTOR STARTER WITH FUSED SWITCH		FUSED SWITCH IN SWITCHBOARD, 3P UNO		FUSED POTENTIAL TRANSFORMER
		K	KIRK KEY INTERLOCK				DISCONNECT SWITCH IN SWITCHBOARD, 3P UNO		CURRENT TRANSFORMERS, 3 UNO
		M	UTILITY METER			SPG	FUSED BOLTED PRESSURE SWITCH WITH GROUND FAULT AND SINGLE PHASE PROTECTION, 3P UNO		CAPACITOR
2AL1	MAIN BREAKER IN CIRCUIT BREAKER PANELBOARD, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	XXXA	MAIN BREAKER IN CIRCUIT BREAKER PANELBOARD WITH SUB-FEED BREAKER, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	CB	COMBINATION MAGNETIC MOTOR STARTER WITH CIRCUIT BREAKER	E N	TRANSFER SWITCH		EARTH GROUND
								LA	LIGHTNING ARRESTER
3AL1	THROUGH FEED LUGS CIRCUIT BREAKER PANELBOARD, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES			MS	COMBINATION MAGNETIC MOTOR STARTER WITH MOTOR CIRCUIT PROTECTOR		DISCONNECT, 3P UNO		PLUG AND RECEPTACLE OR DRAWOUT DEVICE
							MOLDED CASE CIRCUIT BREAKER, 3P UNO		
6AL1	MAIN BREAKER IN CIRCUIT BREAKER PANELBOARD WITH INTEGRAL BUS CONNECTED SPD, REFER TO E8 SERIES DRAWINGSFOR PANELBOARD SCHEDULES	SPD		VSC	COMBINATION MAGNETIC MOTOR STARTER WITH VARIABLE SPEED CONTROLLER		CIRCUIT BREAKER IN SWITCHBOARD, 3P UNO		POWER TRANSFORMER
							INSULATED CASED POWER CIRCUIT BREAKER WITH L.I.S.G. PROTECTION FEATURES, 3P UNO		
4AL1	MAIN DOUBLE LUG CIRCUIT BREAKER PANELBOARD, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES						DRAWOUT CIRCUIT BREAKER, 3P UNO	X	3 PHASE MOTOR. X INDICATES HORSEPOWER OR KILOWATTS
7AL1	MAIN BREAKER IN CIRCUIT BREAKER PANELBOARD WITH SPD MOUNTED ADJACENT WITH CLOSED NIPPLE. REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	SPD		EO	COMBINATION MAGNETIC MOTOR STARTER WITH ELECTRONIC OVERLOADS	S	SHUNT TRIP OPERATED CIRCUIT BREAKER	CP	CONTROL PANEL FURNISHED UNDER DIVISION 25
								G	GENERATOR

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CONSULTANT

CONSTRUCTION DOCUMENTS

BRIAN W. BUTLER
REGISTERED
No.
PE10800
STATE OF
PROFESSIONAL ENGINEER

DRAWN BY: RDR

PROJECT NUMBER: 223139.00

PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02.14.2024

ELECTRICAL ONE-LINE DIAGRAM

E7.01

C:\Users\anieman\Documents\2021_ELEC_223139.00_anieman-MFNSN.rvt
2/13/2024 11:19:39 AM

Branch Panel: H5

Location: ROOM B109
Supply From: EXISTING "MDBP"
Mounting: Surface
Enclosure: Type 1
Volts: 480/277 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: MLO
Mains Rating: 400 A
MCB Rating: 400 A

Notes: INTEGRAL SURGE PROTECTION

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	LIGHTING RM. B101-B107	20 A	1	1581	7147					3	100 A	TRANSFORMER T-H1 RM. B109	2
3	LIGHTING RM. B108-B115	20 A	1			1363	5240			--	--	--	4
5	LIGHTING RM. B116-B127	20 A	1					1667	5042	--	--	--	6
7	HWP-1 5HP RM. B109	20 A	3	2105	4223					3	60 A	TRANSFORMER T-H2 RM. B125	8
9	--	--	--			2105	3600			--	--	--	10
11	--	--	--					2105	3528	--	--	--	12
13	HWP-2 HP RM.B109	20 A	3	2105	46862					3	200 A	RTU-A101 169.3 FLA ROOFTOP	14
15	--	--	--			2105	46862			--	--	--	16
17	--	--	--					2105	46862	--	--	--	18
19	Spare	20 A	1	0	0					1	20 A	Spare	20
21	Spare	20 A	1			0	0			1	20 A	Spare	22
23	Spare	20 A	1					0	0	1	20 A	Spare	24
25	Spare	20 A	1	0	0					1	20 A	Spare	26
27	Spare	20 A	1			0	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
31	Spare	20 A	1	0	0					1	20 A	Spare	32
33	Spare	20 A	1			0	0			1	20 A	Spare	34
35	Spare	20 A	1					0	0	1	20 A	Spare	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
			Total Load:	64024 VA		61276 VA		61310 VA					
			Total Amps:	231 A		221 A		221 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	4611 VA	100.00%	4611 VA		
Motor	160018 VA	121.96%	195165 VA	**Total Conn. Load:**	186609 VA
Other	0 VA	0.00%	0 VA	**Total Est. Demand:**	216054 VA
Receptacle - Convenience	360 VA	100.00%	360 VA	**Total Conn.:**	224 A
Receptacle	21260 VA	73.52%	15630 VA	**Total Est. Demand:**	260 A
Receptacle - Special	360 VA	80.00%	288 VA		

Notes:

Branch Panel: L5

Location: ROOM B109
Supply From: T-H1
Mounting: Surface
Enclosure: Type 1
Volts: 208/120 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: MCB
Mains Rating: 200 A
MCB Rating: 200 A

Notes: INTEGRAL SURGE PROTECTION

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1					900					1	20 A	RECEPTS RM. B114,B115	2
3	IDF RACK RM. B104	20 A	1			180	900			1	20 A	RECEPTS RM. B112,B113	4
5	IDF RACK RM. B104	30 A	1					360	180	1	20 A	WATER COOLER RM. B113(NOTE 1)	6
7	RECEPTS RM. B102, B104	20 A	1	900	104					1	20 A	COILING DOOR RM. B111,B112	8
9	RECEPTS RM. B105, B107	20 A	1			1260	180			1	20 A	WATER COOLER RM. B111(NOTE 1)	10
11	RECEPTS RM. B107, B108	20 A	1					1080	900	1	20 A	RECEPTS RM. B110,B111	12
13	RECEPTS RM. B108, B109	20 A	1	900	720					1	20 A	RECEPTS RM. B116,B117,B118	14
15	RECEPTS RM. B106	20 A	1			1080	104			1	20 A	COILING DOOR RM. B108	16
17	REFRIGERATOR RM. B106	20 A	1					1000	104	1	20 A	COILING DOOR RM. B108	18
19	ICE MACHINE RM. B106	20 A	1	180	1440					1	20 A	RECEPTS RM. B121,B123	20
21	WHIRLPOOL RM. B106	20 A	1			180	1080			1	20 A	RECEPTS RM. B121,B126	22
23	WHIRLPOOL RM. B106	20 A	1					180	0	1	20 A	AUTOMATIC GAS SHUTOFF RM. B109	24
25	AUTOMATIC DOOR OPENER RM. B116	20 A	1	254	254					1	20 A	AUTOMATIC DOOR OPENER RM. B118	26
27	VVR-119,VVR120,VVR121,VVR122,VVR123	20 A	1			0	0			1	20 A	VVR-115, VVR-116, VVR-117, AND VVR-118	28
29	VVR-111, VVR112, VVR113, AND VVR114	20 A	1					0	1058	1	20 A	CUH-111, CUH-112, CUH-124, EF102	30
31	CUH-122, CUH-123, EF-103	20 A	1	1219	276					1	20 A	BOILER BLR-1 RM B109	32
33	BOILER BLR-2 RM. B109	20 A	1			276	0			1	20 A	TEMP. CONTROL PANEL RM. B109	34
35	TEMP. CONTROL PANEL RM.B109	20 A	1					0	180	1	20 A	RTU LIGHTS/RECEPTS ROOFTOP	36
37	Spare	20 A	1	0	0					1	20 A	Spare	38
39	Spare	20 A	1			0	0			1	20 A	Spare	40
41	Spare	20 A	1					0	0	1	20 A	Spare	42
43	Spare	20 A	1	0	0					1	20 A	Spare	44
45	Spare	20 A	1			0	0			1	20 A	Spare	46
47	Spare	20 A	1					0	0	1	20 A	Spare	48
49	Spare	20 A	1	0	0					1	20 A	Spare	50
51	Spare	20 A	1			0	0			1	20 A	Spare	52
53	Spare	20 A	1					0	0	1	20 A	Spare	54
55	Spare	20 A	1	0	0					1	20 A	Spare	56
57	Spare	20 A	1			0	0			1	20 A	Spare	58
59	Spare	20 A	1					0	0	1	20 A	Spare	60
			Total Load:	7147 VA		5240 VA		5042 VA					
			Total Amps:	60 A		44 A		42 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	3649 VA	104.57%	3816 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	17429 VA
Receptacle - Convenience	360 VA	100.00%	360 VA	**Total Est. Demand:**	15994 VA
Receptacle	13060 VA	88.28%	11530 VA	**Total Conn.:**	48 A
Receptacle - Special	360 VA	80.00%	288 VA	**Total Est. Demand:**	44 A

Notes: NOTE 1: GFCI Circuit Breaker 5mA

LUMINAIRE SCHEDULE

PLAN TYPE	MANUFACTURER/CATALOG	MOUNTING	LAMPS NO.	LAMPS WATTS	LAMPS TYPE	LUMENS	APPLIED VOLTAGE	DESCRIPTION	VA LOAD
LBW4	LUMINAIRE LIGHTING AEL SERIES	SURFACE WALL	1	20 W	LED	2030 lm	277 V	48-INCH VANDAL RESISTANT EXTERIOR WALL SCONCE, LISTED FOR WET LOCATION. COLOR TO BE BRONZE	20 VA
LBW4X	LUMINAIRE LIGHTING AEL SERIES	SURFACE WALL	1	20 W	LED	2030 lm	277 V	48-INCH VANDAL RESISTANT EXTERIOR WALL SCONCE, LISTED FOR WET LOCATION. COLOR TO BE BRONZE. WITH EMERGENCY BATTERY UNIT	20 VA
LBW5	LUMINAIRE LIGHTING AEL SERIES	SURFACE WALL	1	30 W	LED	3317 lm	277 V	72-INCH VANDAL RESISTANT EXTERIOR WALL SCONCE, LISTED FOR WET LOCATION. COLOR TO BE BRONZE	30 VA
LBW5X	LUMINAIRE LIGHTING AEL SERIES	SURFACE WALL	1	30 W	LED	3317 lm	277 V	72-INCH VANDAL RESISTANT EXTERIOR WALL SCONCE, LISTED FOR WET LOCATION. COLOR TO BE BRONZE.WITH EMERGENCY BATTERY UNIT	30 VA
LD61	PORTFOLIO LD6A SERIES GOTHAM EVO SERIES PRESCOLITE LF4-6RD SERIES	RECESSED	1	22 W	LED	1500 lm	277 V	6-INCH ROUND APERTURE OPEN REFLECTOR LED DOWNLIGHT, MEDIUM DISTRIBUTION, CLEAR SPECULAR FINISH, SELF-FLANGED, 0-10VDC DIMMING, BAR HANGER ACCESSORY. FIXTURES IN SERVING AREA ARE TO BE EITHER 3000K OR 3500K AS NOTED, ALL OTHER INSTANCES TO BE 4000K	19 VA
LDW61	PORTFOLIO LD6A SERIES GOTHAM EVO SHOWER SERIES PRESCOLITE LFR-6RD-SH SERIES	RECESSED	1	15 W	LED	1000 lm	277 V	6-INCH ROUND APERTURE LED SHOWER LIGHT WITH REGRESSED LENS REFLECTOR, WHITE REFLECTOR AND TRIM, SELF-FLANGED, IP65 WET LOCATION LISTED.	15 VA
LDW61GX	PORTFOLIO LD6A SERIES GOTHAM EVO SHOWER SERIES PRESCOLITELFR-6RD-SH SERIES KURTZON ML-SBD SERIES	RECESSED	1	15 W	LED	1000 lm	277 V	6-INCH ROUND APERTURE LED SHOWER LIGHT WITH REGRESSED LENS REFLECTOR, WHITE REFLECTOR AND TRIM, SELF-FLANGED, IP65 WET LOCATION LISTED, RGB SET TO GREEN, WITH EMERGENCY BATTERY UNIT.	15 VA
LDW61X	PORTFOLIO LD6A SERIES GOTHAM EVO SHOWER SERIES PRESCOLITE LFR-6RD-SH SERIES	RECESSED	1	15 W	LED	1000 lm	277 V	6-INCH ROUND APERTURE LED SHOWER LIGHT WITH REGRESSED LENS REFLECTOR, WHITE REFLECTOR AND TRIM, SELF-FLANGED, IP65 WET LOCATION LISTED, WITH EMERGENCY BATTERY UNIT.	15 VA
LF1	LITHONIA CPX SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES	RECESSED	1	39 W	SOLID STATE LED	4000 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 10% DIMMING.	39 VA
LF1X	LITHONIA CPX SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES	RECESSED	1	39 W	SOLID STATE LED	4000 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 10% DIMMING EMERGENCY BATTERY UNIT.	39 VA
LF2	LITHONIA CPX SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES	RECESSED	1	47 W	SOLID STATE LED	4800 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 1% 0-10V DIMMING.	47 VA
LF2X	LITHONIA CPX SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES	RECESSED	1	47 W	SOLID STATE LED	4800 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 1% 0-10V DIMMING EMERGENCY BATTERY UNIT.	47 VA
LF3X	LITHONIA CPX SERIES EATON METALUX CGT SERIES COLUMBIA CBT SERIES	RECESSED	1	53 W	SOLID STATE LED	6000 lm	277 V	2 BY 4-FOOT BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 1% 0-10V DIMMING EMERGENCY BATTERY UNIT.	58 VA
LFS1	METALUX WNLED SERIES LITHONIA SBL SERIES COLUMBIA LAW SERIES	SURFACE	1	48 W	LED	4000 lm	277 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	27 VA
LFS1X	METALUX WNLED SERIES LITHONIA SBL SERIES COLUMBIA LAW SERIES	SURFACE	1	48 W	LED	4000 lm	277 V	4-FOOT LED WRAP AROUND FIXTURE, ACRYLIC PRISMATIC DIFFUSER, 0-10VDC DIMMING, WITH EMERGENCY BATTERY UNIT. IF SUSPENDED, INSTALL AT 8-FOOT AFF WITH CONDUIT STEMS (UNO).	27 VA
LTFW1	LITHONIA T SERIES EATON METALUX QR LED SERIES KURTZAN TL-R SERIES	RECESSED	1	45 W	LED	3900 lm	277 V	1 BY 4-FOOT LED TROFFER, INVERTED 0.187-INCH POLYCARBONATE LENS WITH UV ABSORBING OVERLAY, LISTED FOR WET LOCATIONS, IP65 RATED, NSF LISTED, FLANGE KIT.	45 VA
XC	SURE-LITES CX SERIES CHLORIDE 55 LINE SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES	SURFACE CEILING	1	3 W	RED LED	0 lm	277 V	TWO SIDED CAST ALUMINUM AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA
XVW	SURE-LITES UX SERIES CHLORIDE 60 LINE SERIES LITHONIA LV SERIES DUAL-LITE SEWL SERIES	SURFACE WALL	1	3 W	RED LED	0 lm	277 V	CAST ALUMINUM, VANDAL RESISTANT AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING, LISTED FOR WET LOCATIONS. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA
XVW2	SURE-LITES UX SERIES CHLORIDE 60 LINE SERIES LITHONIA LV SERIES DUAL-LITE SEWL SERIES	SURFACE CEILING	1	3 W	RED LED	0 lm	277 V	CAST ALUMINUM, VANDAL RESISTANT AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING, LISTED FOR WET LOCATIONS. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA
XW	SURE-LITES CX SERIES CHLORIDE 55 LINE SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES	SURFACE WALL	1	3 W	RED LED	0 lm	277 V	CAST ALUMINUM AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA

Branch Panel: L6

Location: RM. B125
Supply From: T-H2
Mounting: Recessed
Enclosure: Type 1
Volts: 208/120 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes: INTEGRAL SURGE PROTECTION

CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	RECEPTS RM. B125	20 A	1	720	180					1	20 A	COFFEE BREWER RM. B125	2
3	RECEPTS RM. B122, B125	20 A	1			720	180			1	20 A	CAPPUCCINO MACHINE RM. B125	4
5	REFRIGERATOR RM B125	20 A	1					1000	180	1	20 A	SLUSHY MACHINE RM. B125	6
7	ICE CREAM MERCHANDISER RM. B125	20 A	1	180	180					1	20 A	HOTDOG GRILL RM. B125	8
9	BEVERAGE COOLER RM. B125	20 A	1			180	180			1	20 A	POPCORN POPPER RM. B125	10
11	NACHO CHEESE DISPLAY RM. B125	20 A	1					180	180	1	20 A	BEVERAGE COOLER RM. B125	12
13	COUNTERTOP DISPLAY RM. B125	20 A	1	180	180					1	20 A	NACHO CHEESE DISPLAY RM. B125	14
15	COUNTERTOP DISPLAY RM. B125	20 A	1			180	180			1	20 A	COUNTERTOP DISPLAY RM. B125	16
17	HOTDOG BUN WARMER RM. B125	20 A	1					180	180	1	20 A	HOTDOG BUN WARMER RM. B125	18
19	RECEPTS RM. B124, B127	20 A	1	1080	180					1	20 A	RECEPTACLE RM. B125	20
21	RECEPTS RM. B119, B120	20 A	1			1080	828			1	20 A	CUH-119, CUH-120, CUH-121	22
23	CUH-117, CUH-118, EF-104	20 A	1					1219	1104	1	20 A	CUH-113, CUH 114, CUH 115, AND CUH 116	24
25	Spare	20 A	1	0	0					1	20 A	Spare	26
27	Spare	20 A	1			0	0			1	20 A	Spare	28
29	Spare	20 A	1					0	0	1	20 A	Spare	30
			Total Load:	2880 VA		3528 VA		4223 VA					
			Total Amps:	24 A		30 A		36 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	3151 VA	105.29%	3318 VA		
Receptacle	7480 VA	100.00%	7480 VA	**Total Conn. Load:**	10631 VA
				Total Est. Demand:	10798 VA
				Total Conn.:	30 A
				Total Est. Demand:	30 A

Notes:

LUMINAIRE SCHEDULE - GENERAL NOTES

1. SEE SPECIFICATIONS FOR BALLAST REQUIREMENTS.
2. FOR ALL DOWNLIGHTING FIXTURES, PROVIDE REQUIRED MOUNTING HARDWARE FOR MOUNTING IN LAY-IN TYPE CEILINGS.
3. CONTRACTOR TO VERIFY TYPES AND QUANTITY OF LIGHT FIXTURES REQUIRING EMERGENCY TRANSFER DEVICES AND PROVIDE REQUIRED QUANTITY OF EMERGENCY TRANSFER DEVICES, LABOR, MATERIAL, ETC. IN THE PROJECT BID FOR FIELD INSTALLATION OF EMERGENCY TRANSFER DEVICES.
4. LIGHT FIXTURE SUBMITTALS TO INCLUDE DATA SHEETS FOR ALL FIXTURE TYPES, INCLUDING ADDITIONAL DATA SHEETS FOR BALLAST COMBINATIONS REQUIRED TO MEET THE INSTALLATION REQUIREMENTS OF THE VARIOUS FIXTURE TYPES INDICATED IN THE REMARKS COLUMN OF THE FIXTURE SCH
5. COLOR TEMPERATURE FOR ALL FIXTURES TO BE 4000K. UNLESS NOTED OTHERWISE

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CONSULTANT

CONSTRUCTION DOCUMENTS

BRIAN W. BUTLER REGISTERED No. PE19800[illegible] STATE OF [illegible] PROFESSIONAL ENGINEER

DRAWN BY: RDR

PROJECT NUMBER: 223139.00

PROJECT ISSUE DATE: 01.22.2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	02.14.2024

LUMINAIRE AND PANELBOARD SCHEDULES

E8.01

A D D E N D U M N O. 1

Zionsville Middle School – Tennis Complex Renovation

Zionsville Community Schools
Zionsville, Indiana

Project No. 223144.00

Index of Contents

Addendum No. 1, 2 items, 1 page
Revised Drawing Sheets: G1.00 and G4.00

Date: February 14, 2024

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 1 to Drawings and Project Manual, dated January 22, 2024, for Zionsville Community Schools, 900 Mulberry Street, Zionsville, Indiana; as prepared by Fanning/Howey Associates, Inc., Indianapolis, Indiana. This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum.

Each bidder shall acknowledge receipt of this Addendum in his proposal or bid.

NOTE: Bidders are responsible for becoming familiar with every item of this Addendum. (This includes miscellaneous items at the very end of this Addendum.)

RE: ALL BIDDERS

ITEM NO. 1. ACCEPTABLE MANUFACTURERS

The following manufacturers are to be considered acceptable manufacturers (suppliers and fabricators) for the Sections of the Specifications listed. Listed manufacturers are required to bid on products equal in type and design, size, function, and quality to that originally specified. Final decision as to equality of products specified versus those proposed shall be made by the Architect.

Section 32 18 26 – Tennis Court Surfacing
- ICP Building Solutions Group, Andover, Maryland (Plexipave, DecoColor)

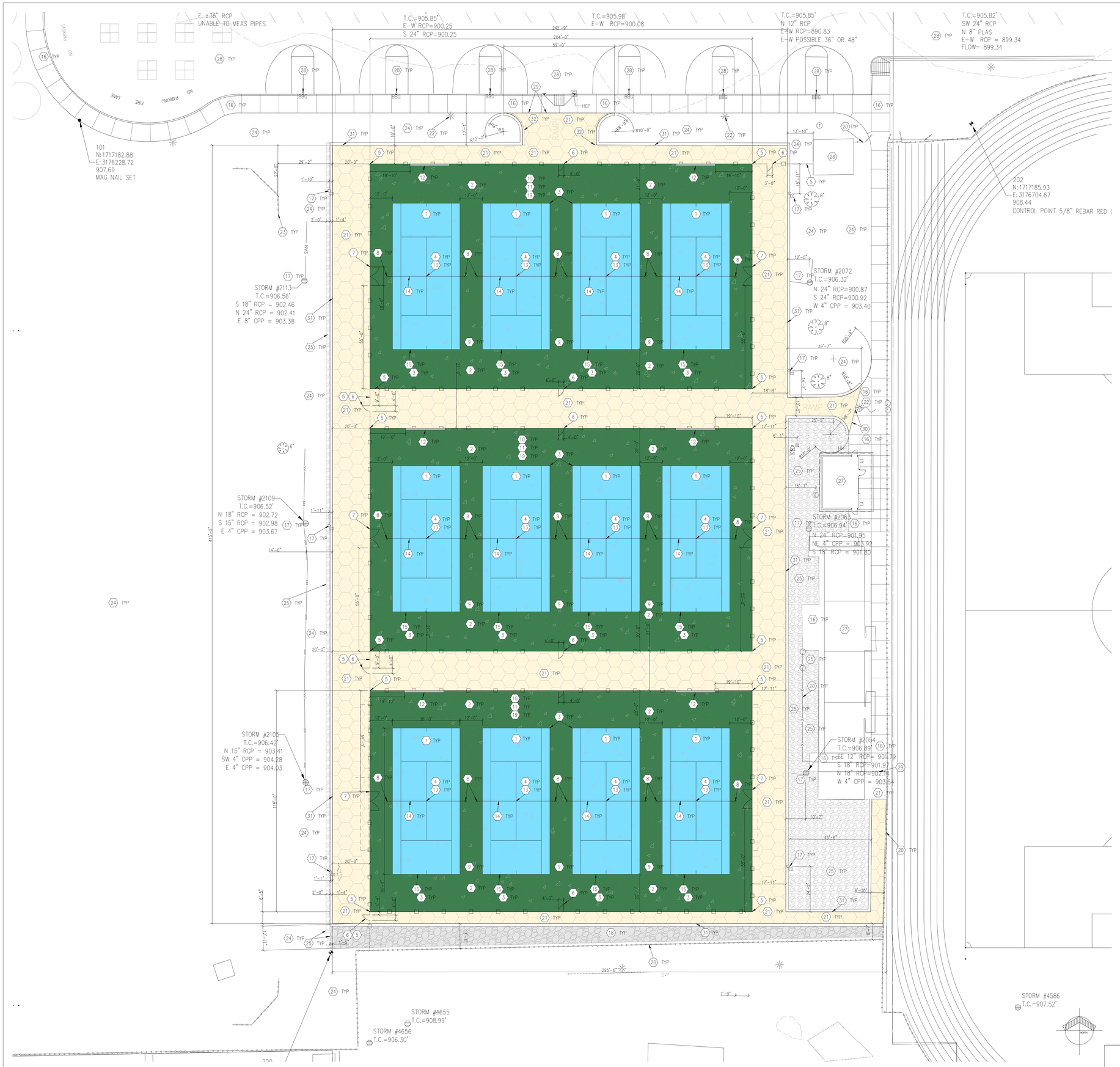
ITEM NO. 2. REVISED DRAWING SHEETS

A. Drawing Sheets: G1.00 and G4.00 have been revised, dated 02/13/24, and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

END OF ADDENDUM

FANNING HOWEY

PRE-BID REQUEST FOR INTERPRETATION/CLARIFICATION LOG					
Project No.	**RFI#**	**Date Received**	**Request for Interpretation Item**	**Dwg./Spec.**	**Response**
223144.00	1	2/1/24	Substitution Request for Tennis Court Color Coating Surfacing System; proposed substitution - Plexipave, DecoColor, ICP Building Solutions Group	32 18 26	Substitution Approved
223144.00	2	2/9/24	1. There are different Post diameters listed for the 10' Chain link fence on the Courts. Could you please advise which is correct? a. Detail 9/G4.00 – 4" Terminal Post, 4" Line Post b. Note 5 / G1.00 – 4" Terminal Post, 3" Line Post c. In the specs – 5" Terminal Post, 3" Line Post 2. There is a difference in Post embedment between drawings and specs. Could you please advise which is correct? a. Plans Detail 8/4.00 – 54" Embedment on all Posts b. Specs – 34" embedment for line post c. 60" embedment for Terminal/Gate Post		Please follow the information listed within the Project Manual for both items pertaining to new fencing post diameters and embedment depths. Refer to Addendum No. 2.



SITE LAYOUT PLAN

SCALE: 1" = 20'-0"

PLAN NOTES

1. TENNIS COURT LAYOUT AND SURFACING; PLAYING SURFACE (BLUE), FROM MANUFACTURER STANDARD COLORS , REFER TO PROJECT MANUAL 32 18 26 TENNIS COURT SURFACING. SEE DETAIL #12 SHT G4.00 FOR COURT LAYOUT TYP - SEE LAYOUT FOR COURT NUMBERING TO BE PLACED AT EACH COURT IN NUMERICAL ORDER, STARTING AT NORTHWEST COURT AND WORKING EAST - LEFT TO RIGHT + NORTH TO SOUTH
2. TENNIS COURT SURFACING, PERIMETER COLOR (GREEN), FROM MANUFACTURER STANDARD COLORS. REFER TO PROJECT MANUAL 32 18 26 TENNIS COURT SURFACING. PREPARE ALL NEW AND EXISTING PTC SURFACES TO RECEIVE TENNIS COURT SURFACING, AND APPLY TENNIS COURT SURFACING. SEE DETAIL #12 SHT G4.00
3. COURT LINES: (WHITE) , 2" WIDE. LAYOUT PER NFHS AND US TENNIS REGULATIONS TYP., REFER TO DETAIL 1 ON G4.00, AND THE PROJECT MANUAL 32 18 26 TENNIS COURT SURFACING.
4. SAWCUT JOINT TYP; ALONG NET LINE AND BETWEEN INDIVIDUAL COURTS. DEPTH OF CUT AS RECOMMENDED BY POST TENSION CONC. MANUFACTURER GUIDELINES. SEAL JOINT WITH PAINTABLE SEALANT MEETING THE REQUIREMENTS OF THE TENNIS COURT SURFACING MANUFACTURER GUIDELINES. SAWCUT AND SEALING OPERATION TO BE COMPLETED BEFORE COLOR SYSTEM INSTALLATION - REFER TO PROJECT MANUAL 03 38 16 UNBOUNDED POST TENSIONED CONC.
5. NEW 10' HIGH CHAIN LINK FENCING; 5" TERMINAL/GATE POST AND 3" LINE POSTS, 1 " 34" FABRIC, TOP MID AND BOTTOM RAIL, ALL MATERIAL IS TO BE BLACK VINYL, SEE DETAILS # 8-10 SHT G4.00 AND DETAIL #2 SHT G4.01
6. NEW 4' WIDE AND 4' 7" TALL SINGLE MAN GATES - SEE DETAILS #7-9, 13-14 HT G4.00
7. NEW 10' WIDE AND 4' 7" TALL DOUBLE WIDE MAN GATES - SEE DETAILS #7-9 SHT G4.00
8. NEW TENNIS NET POSTS AND FOOTINGS AT EACH COURT TYP (24); BLACK POWDER COATED NET POST - PROVIDE NEW NET POST AND ACCESSORIES - TENNIS BALL HOLDERS (12) +/- , SCORECARD HOLDERS (12) +/- , SEE DETAILS #12 ON SHEET G4.0 AND DETAIL #7 SHT G4.01, REFER TO PROJECT MANUAL 11 68 33 ATHLETIC FIELD EQUIPMENT. ADJUST POST HEIGHTS TO MEET REQUIRED NET HEIGHT.
9. 2'X2' PAINTED ZIONSVILLE MIDDLE SCHOOL "Z" LOGO (9); (GRAY - BLACK AT 30%) SHADOW BOX - CONTRACTOR IS TO COORDINATE GRAPHIC WITH OWNER (WHITE) OUTLINE, (GREEN) CENTER, SEE ENLARGED "Z" LOGO CENTERED BETWEEN COURTS
10. TYP: EX. CONCRETE AND ASPHALT SURFACE PAVING WITHIN EX. TENNIS COMPLEX TO REMAIN - PREPARE SURFACE AS REQUIRED BY POST TENSION MANUF. WRITTEN RECOMMENDATIONS PRIOR TO APPLYING NEW POST TENSIONED SLAB., PT LINER TO BE UTILIZED , 6MIL ALONG WITH 10MIL - PROVIDE PER MANUF. WRITTEN RECOMMENDATIONS
11. TYP: EXISTING UNDERDRAIN SYSTEM AND AGGREGATE BASE COURSE UNDER EX. TENNIS COURT CONC. AND ASPHALT PAVING TO REMAIN; CONTRACTOR IS TO PROTECT THE CONTRACTOR IS TO PROTECT THE EXISTING DRAINAGE SYSTEM AND CLEAN OUTS DURING CONSTRUCTION. PRIOR TO FINALIZING BASE STONE PREPARATION, THE CONTRACTOR IS TO FLUSH THE UNDERDRAINS BY MEANS OF HYDRAULIC PRESSURE TO REMOVE OBSTRUCTIONS AND TO VERIFY POSITIVE DRAINAGE BY THE SYSTEM.
12. NEW TENNIS BACKBOARDS (6); INSTALL PER MANUF. WRITTEN RECOMMENDATIONS - SEE NEW TENNIS BACKBOARD DETAIL #11 ON SHEET G4.00
13. NEW CENTER COURT NET TIE DOWN HARDWARE AND CONCRETE FOOTING (12), REFER TO DETAIL #4 SHT G4.01
14. NEW NETS (12 TOTAL); NETS ARE TO BE INSTALLED PER MANUF. WRITTEN INSTRUCTIONS - SPORTS FIELD SPECIALTIES - BASIS OF DESIGN
15. TENNIS COURT LAYOUT; SEE DETAIL #12 G4.00
16. EX. CONCRETE PADS/WALKWAYS NOT IDENTIFIED FOR NEW WORK; TO REMAIN, REFER TO GD1.0
17. EX. DRAINAGE STRUCTURES; TO REMAIN - PROTECT DURING CONSTRUCTION , REFER TO GD1.0 AND SURVEY
18. NEW RIP RAP BED - TYPE C - CLEAN LIME STONE RIP RAP TO BE INSTALLED PER MANUF. WRITTEN RECOMMENDATION - RIP RAP FG IS TO BE 1" LOWER THAN ADJACENT CONC. PVMT FG ELEVATION - NO FINES AND OR GRAVEL WITHIN RIP RAP MIX.
19. NEW POST TENSION CONC. SURFACE WITH TENSIONING CABLES - CABLES ARE TO BE CONFIGURED INTO A SPECIFIED GRID LAYOUT AND STRESSED TO THE APPROPRIATE LEVELS - WHICH IS TO BE SPECIFIED BY MANUF. PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR IS TO TREAT AND PREP EX. CONC. AND ASPHALT SURFACES AS NEEDED PRIOR TO INSTALLATION OF NEW PT SLAB. SEE DETAILS #1-9 SHT G4.01 FOR FURTHER INFORMATION
20. EX. FENCING TO REMAIN - PROTECT DURING CONSTRUCTION
21. NEW 6" REINFORCED CONC. WALKS TO BE INSTALLED UPON EXISTING CONC./ASPHALT PAVING AREAS., THE SITE CONC. PAVING IS SET WITHIN A 2" ROCK SETING BED, INSTALL PER DETAILS #1-6 SHT G4.00 AND DETAIL #8 SHT G4.01 PER MANUF. WRITTEN RECOMMENDATION
22. SITE WIDE ; ALL EXISTING LIGHTING FIXTURES, POLES AND BASES ARE TO REMAIN MARKED OR OTHERWISE - CONTRACTOR IS TO PROTECT DURING CONSTRUCTION - SITE VERIFY EX. CONDITIONS PRIOR TO THE START OF CONSTRUCTION
23. EX. BACKSTOP TO REMAIN - PROTECT DURING CONSTRUCTION
24. DISTURBED LAWN; RE-SEED , HYDROMULCH DISTURBED LAWNS AND RESTORE BACK TO ACCEPTABLE CONDITIONS PRIOR TO THE CONCLUSION OF CONSTRUCTION , REFER TO PROJECT MANUAL
25. NEW GRAVEL BED - ADD 3" DEPTH OF NEW SANDSTONE GRAVEL WITHIN NOTED SPACE - INSTALL STONE TO BE 1.5" LOWER THAN ADJACENT LAWN FG - PREVENT STONE FROM MIGRATING DOWN EX. DRAINAGE SWALES AND COLLECTING WITHIN EX. STORM MANHOLES.
26. EX. TICKET BOTH TO REMAIN - PROTECT DURING CONSTRUCTION
27. EX. GRANDSTANDS AND SUPPORT BUILDING TO REMAIN - PROTECT DURING CONSTRUCTION
28. ALL EX. BASKETBALL GOALS AND ASPHALT PAVING TO REMAIN - PROTECT DURING CONSTRUCTION TYP
29. NEW TO EXISTING WALK ; SEE DETAIL #6 SHT G4.00
30. THICKENED EDGE PVMT @ EX. PVMT EDGE DETAIL; SEE DETAIL #2 SHT G4.00
31. MONOLITHIC CONC. WALK/CURB AND GUTTER AT EX. LAWN AND GRAVEL BEDS; SEE DETAIL #1 SHT G4.00
32. HANDRAIL AT RAMP DETAIL - SEE DETAIL #15 SHT G4.00

PLAN LEGEND

- TENNIS COMPLEX; NEW POST TENSION CONC. WITH TENNIS COURT SURFACING SEE PLAN NOTES FOR FURTHER CLARIFICATION
- TENNIS COURTS; NEW POST TENSION CONC. WITH TENNIS COURT SURFACING SEE PLAN NOTES FOR FURTHER CLARIFICATION
- EX. GRAVEL BED; SEE PLAN NOTES
- NEW 6" MONOLITHIC CONC. PAVING WITH GUTTER, SEE PLAN NOTES FOR FURTHER CLARIFICATION
- NEW RIP RAP BED ; SEE PLAN NOTES

811 Know what's below. Call before you dig. Call 811 or 1-800-382-5544 Before You Begin Any Digging Project. It's Fast, It's Easy and It's the Law It's the law in Indiana!

CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE BASED UPON ABOVE GROUND EVIDENCE SUCH AS MANHOLES, CATCH BASINS, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY BE UTILITIES OTHER THAN THOSE SHOWN ON THE PLANS FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

LOCATIONS GIVEN ARE APPROXIMATE AND ARE TO BE SITE VERIFIED PRIOR TO THE START OF CONSTRUCTION. ALL CONCRETE AND ASPHALT PAVING NOT NOTED FOR WORK IS TO REMAIN – PROTECT DURING CONSTRUCTION TYP

ZIONSVILLE MIDDLE SCHOOL TENNIS COMPLEX RENOVATION

ZIONSVILLE MIDDLE SCHOOL
900 FORD RD, ZIONSVILLE, IN 46077

ZIONSVILLE COMMUNITY SCHOOLS ZIONSVILLE, INDIANA

ZIONSVILLE COMMUNITY SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM
350 E NEW YORK ST # 300, INDIANAPOLIS, IN 46204

Vicinity Map

Project Status

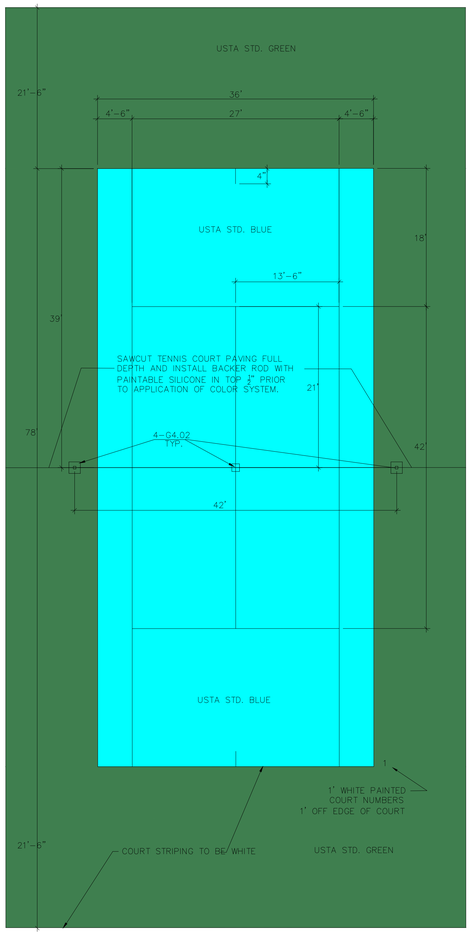
PAUL A. MILLER REGISTERED No. A 0300161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: JM
DRAWN BY: EB
PROJECT NUMBER: 223144.00
PROJECT ISSUE DATE: 01/22/2024

REV. NO.	DESCRIPTION	DATE
	SD PLAN	10-18-23
	DD PLAN	11-22-23
	CONSTRUCTION DOCUMENTS	01/22/24
1	ADDENDUM 01	02/13/24

SITE LAYOUT PLAN

G1.00



TENNIS COURTS TO BE USTA STD. COLORS : BLUE/GREEN
FINAL COLOR TO BE APPROVED BY OWNER.

12 TENNIS COURT LAYOUT
NTS

GENERAL NOTES

NOTES:

1. TENNIS NET/POSTS: PROVIDE 6 SETS, REFER TO DETAIL 7 ON SHT. G4.01 REFER TO PROJECT MANUAL 11 68 33 ATHLETIC FIELD EQUIPMENT. POSTS ARE TO HAVE INTERIOR WIND MECHANISM, 3" SQ POSTS. EACH NET IS TO HAVE AN ADJUSTABLE CENTER STRAP. EACH COURT IS TO HAVE 1 SCORE REPORTER AND 1 TRASH RECEPTACLE, MOUNTED ON THE NET POSTS AT EACH COURT.

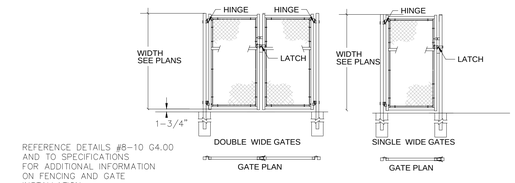
A. EQUIPMENT AS MANUFACTURED BY DOUGLAS (PHONE 1-800-553-8907) "PREMIER 3" SQUARE POST; "TN-50" NET; "SR-357" SCORE REPORTER; "COURT ORDER UNIT"; "CMP-9R" WINDSCREEN WITH "TR-50" TIE-RAP FASTENERS.

2. REFER TO SPEC SECTION 32 18 26 TENNIS COURT SURFACING FOR TENNIS COURT PAINTING SYSTEM.

3. PAINT A 12" HIGH COURT NUMBER AT EACH COURT. (SOUTHEAST CORNER). FINAL LOCATION OF NUMBERS TO BE PER OWNERS DIRECTIONS.

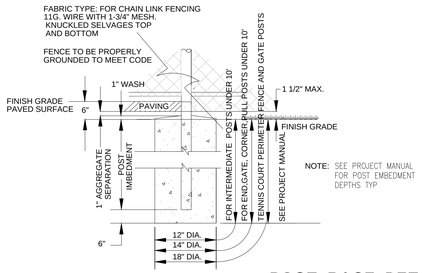
4. PERIMETER FENCE AROUND TENNIS COURTS; ALL FENCING TO RECEIVE WINDSCREEN (RED) FINAL COLOR TO BE SELECTED BY OWNER PRIOR TO CONSTRUCTION – POST TO RECEIVE WINDSCREEN ARE TO HAVE POST FOOTING 18" DIA. X 5'-0" DEEP AND ARE TO BE ONE OF THE FOLLOWING:
   A. 5" DIA. SCH 40 PIPE, SPACED 10'-0" O.C. MAX.
   B. 4" DIA. SCH 40 PIPE, SPACED 8'-0" O.C. MAX.

5. PAINT A 2' HIGH COURT LOGO "Z" BETWEEN EACH COURT. FINAL LOCATION OF LOGO, STYLE, COLORS AND PLACEMENT TO BE PER OWNERS DIRECTIONS.



REFERENCE DETAILS #8-10 G4.00 AND TO SPECIFICATIONS FOR ADDITIONAL INFORMATION ON FENCING AND GATE INSTALLATION.

7 GATE DETAIL



8 POST BASE DETAIL
NTS

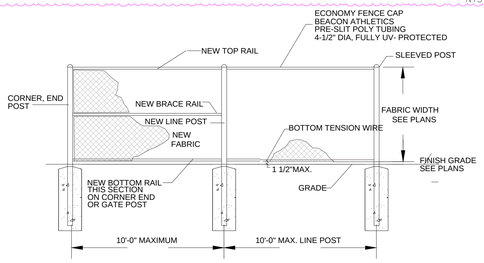
USE	FABRIC UNDER 10' HT.	FABRIC 10' AND OVER
CORNER, END & PULL POST	SCHED. 40 2.875" O.D.	SCHED. 40 5" O.D.
INTERMEDIATE POST	SCHED. 40 2.375" O.D.	SCHED. 40 5" O.D.
TOP AND BRACE RAILS	SCHED. 40 1.66" O.D.	SCHED. 40 1.66" O.D.
GATE POST FOR LEAF WIDTH: LESS THAN 6'	SCHED. 40 2.875"O.D.	SCHED. 40 5" O.D.
GATE FRAME	SCHED. 40 1.90" O.D.	SCHED. 40 1.90" O.D.

NOTE: CHAIN LINK FENCE FABRIC SHALL HAVE BLACK PVC COATING THERMALLY FUSED TO ZINC COATED WIRE. ALL POSTS, RAILS AND BRACING SHALL ALSO HAVE BLACK PVC COATING, THERMALLY FUSED TO GALVANIZED (ZINC COATED) STEEL PIPE.

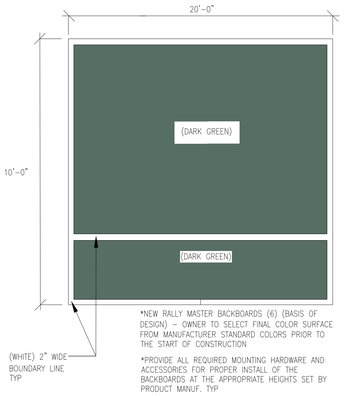
NOTE: IN AREAS WHERE PRACTICE BOARD IS ATTACHED TO FENCING INSERT 3-1/2" O.D. SS-40 SLEEVE INSIDE OF THE 5" PIPE AND END AND PLUG WELD

NOTE: SEE PROJECT MANUAL FOR FINAL POST DIAMETERS AND EMBEDMENT DEPTHS

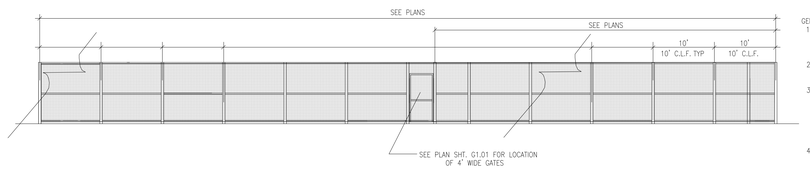
9 CHAIN LINK FENCE/FRAME SCHEDULE
NTS



10 NEW 10' TALL FENCE ELEVATION
NTS

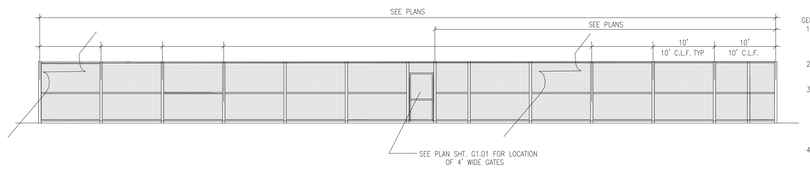


11 NEW TENNIS BACKBOARD
NTS



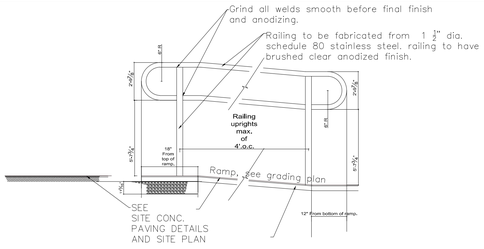
GENERAL NOTE:
1. PROVIDE HEAVY DUTY WINDSCREEN (DARK GREEN) FENCING WIDE TYP
2. VERIFY DISTANCES PROVIDED WITH LAYOUT PLANS
3. PROVIDE ALL REQUIRED ACCESSORIES AND HARDWARE NEEDED FOR PROPER FENCE/WINDSCREEN INSTALL
4. NEW FENCING IS TO BE PROPERLY GROUNDED TYP

13 LOOKING NORTH @ TENNIS COMPLEX - EAST/WEST INTERIOR FENCE SECTION
NTS

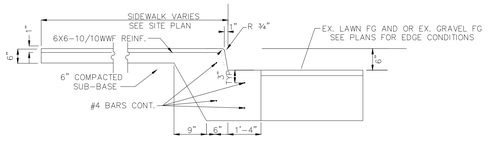


GENERAL NOTE:
1. PROVIDE HEAVY DUTY WINDSCREEN (DARK GREEN) FENCING WIDE TYP
2. VERIFY DISTANCES PROVIDED WITH LAYOUT PLANS
3. PROVIDE ALL REQUIRED ACCESSORIES AND HARDWARE NEEDED FOR PROPER FENCE/WINDSCREEN INSTALL
4. NEW FENCING IS TO BE PROPERLY GROUNDED TYP

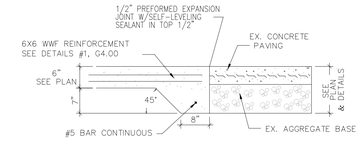
14 LOOKING SOUTH @ TENNIS COMPLEX - EAST/WEST INTERIOR FENCE SECTION
NTS



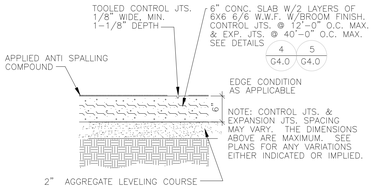
15 HANDRAIL DETAIL AT RAMP
NTS



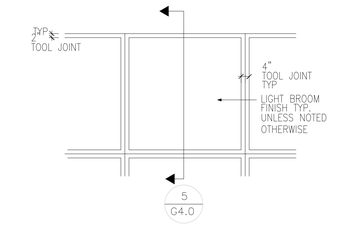
1 MONOLITHIC CURB & GUTTER/LAWN AND GRAVEL
NTS



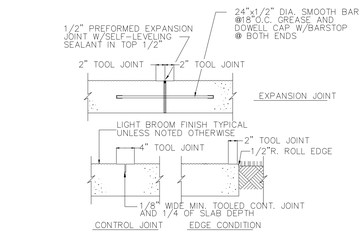
2 CONCRETE SLAB @ EX. CONC. WALK



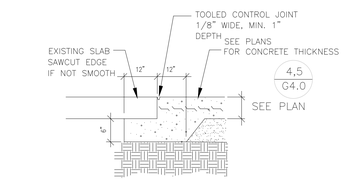
3 6" CONCRETE SLAB DETAIL
NTS



4 CONCRETE SURFACE DETAIL
NTS



5 TYPICAL CONCRETE JOINT DETAILS
NTS



6 NEW TO EXISTING SLAB DETAIL
NTS

ZIONSVILLE MIDDLE SCHOOL TENNIS COMPLEX RENOVATION

ZIONSVILLE MIDDLE SCHOOL
900 FORD RD, ZIONSVILLE, IN 46077

ZIONSVILLE COMMUNITY SCHOOLS ZIONSVILLE, INDIANA

ZIONSVILLE COMMUNITY SCHOOLS

ARCHITECT

FANNING HOWEY

317-848-0966 WWW.FHAI.COM
350 E NEW YORK ST # 300, INDIANAPOLIS, IN 46204

Vicinity Map

Project Status

PROJECT MANAGER: JM
DRAWN BY: EB
PROJECT NUMBER: 223144.00
PROJECT ISSUE DATE: 01/22/2024

REV. NO.	DESCRIPTION	DATE
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1	ADDENDUM 01	02/13/24

SITE DETAILS

G4.00

A D D E N D U M N O. 1

Eagle Elementary School Playground and House Demolition

Zionsville Community Schools
Zionsville, Indiana

Project No. 223135.00

Index of Contents

Addendum No. 1, 3 items, 1 page
Revised Drawing Sheets: GD1.0 and G1.0

Date: February 14, 2024

FANNING/HOWEY ASSOCIATES, INC.
ARCHITECTS/ENGINEERS/CONSULTANTS

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 1 to Drawings and Project Manual, dated January 22, 2024, for Zionsville Community Schools, 900 Mulberry Street, Zionsville, Indiana; as prepared by Fanning/Howey Associates, Inc., Indianapolis, Indiana. This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

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NOTE: Bidders are responsible for becoming familiar with every item of this Addendum. (This includes miscellaneous items at the very end of this Addendum.)

RE: ALL BIDDERS

ITEM NO. 1. PROJECT MANUAL SECTION 11 68 00 – PLAYGROUND EQUIPMENT AND STRUCTURES

A. Replace 2.1, A., 3., as follows:

"3. Ultra Play/Playcore, for imitation log round steppers only."

ITEM NO. 2. REVISED DRAWING SHEETS

A. Drawing Sheets: GD1.0 and G1.0 have been revised, dated 02/14/24, and are included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

ITEM NO. 3. DRAWING SHEET NO. E2.01 - EAGLE ELEMENTARY ELECTRICAL SITE PLAN

A. GENERAL NOTES: Add the following note:

"R. UNDER THE ALTERNATE BID, PROVIDE PANELBOARD AND TIMECLOCK IN SHELTER STORAGE ROOM."

END OF ADDENDUM

SITE LAYOUT PLAN

SCALE: 1" = 10'-0"

0 5' 10' 20'

SCALE: 1" = 10'

NORTH

SITE LAYOUT PLAN NOTES

1. NEW (PROTECHS – BASIS OF DESIGN) ALIPHATIC POURED IN PLACE (PIP) SURFACING TO BE INSTALLED PER MANUFACTURERS WRITTEN RECOMMENDATIONS – PROVIDED PIP SURFACING DEPTHS PER PLAYGROUND MANUF., LOCAL AND STATE REGULATIONS TYP. MANUF. REP IS TO BE ON SITE DURING INSTALLATION. PROVIDE SLOPE TO DRAIN – SEE PLANS FOR FURTHER INFORMATION. PROVIDE MANUF. STANDARD COLORS AS SHOWN ON PLANS – BEIGE/BLACK (75/25 MIX), GRAY/BLACK (75/25 MIX) WITHIN NOTED AREAS ON PLAN – SEE DETAILS 1,3,7,9,10 SHT G4.00 FOR FURTHER INFORMATION.
2. NEW PTS "PERMA" SYNTHETIC TURF (MEDIUM GREEN) SYSTEM WITH SAND INFILL (DEPTH PER TURF MANUF. RECOMMENDATION) ON AGGREGATE BASE COURSE OR BUFFING COURSE – SEE SITE PLANS FOR FURTHER INFORMATION, SEE DETAILS 1,2,8,9 SHT G4.00 FOR TURF INSTALL DETAILS – INSTALL SYSTEM PER TURF/PIP SURFACING MANUF. WRITTEN RECOMMENDATIONS – PROVIDE FLUSH JOINT WHERE TURF AND PIP SURFACING MEET TYP. WHERE TURF MEETS PIP OR BOULDER RETAINING WALL USE ADHESIVE ON 3' WIDE STRIP OF BUFFING LAYER.
3. NEW CONCRETE CURBING – SEE DETAIL 2,3 SHT G4.00
4. INSTALL COMPOSITE EDGING AS SEPARATION STRIP BETWEEN WOOD FIBER SOFT SURFACE AND OTHER SURFACES. SEE DETAILS 8 G4.0
5. INSTALL 4" THICK REINFORCED CONCRETE PAVING IN HATCHED AREAS AS NOTED. SEE DETAILS 4,5,6,7,10 G4.0.
6. INSTALL THICKENED EDGE ALONG POURED CONCRETE PAVEMENT IN AREAS AS NOTED. SEE DETAILS 7 G4.0.
7. CONSTRUCT SEGMENTAL RETAINING WALL WITH CONTINUOUS ADHERED CAP. SEE DETAIL 11 G4.0.
8. CONSTRUCT WEATHERED LIMESTONE BOULDER RETAINING WALLS. ROUNDED AND WEATHERED LIMESTONE BOULDERS 4–6' ACROSS X 18–24" IN HEIGHT. BOULDERS SHALL BE SELECTED AND APPROVED BY LANDSCAPE ARCHITECT AT QUARRY OR SUPPLIER. ACCEPTABLE BOULDERS AS AVAILABLE THROUGH EARTHWORKS INC., PERRYVILLE, MO, 573–547–9097. ADD BOULDERS AS REQUIRED TO ACHIEVE ELEVATIONS AS NOTED ON GRADING PLAN. SEE DETAILS 9,10 G4.0
9. ASPHALT PAVING AND PAINTED PAINTED GAMES : PROTECT EXISTING TO REMAIN DURING CONSTRUCTION TYP.. REPAIR ALL DAMAGED PAVING AND PAINT PRIOR TO THE END OF CONSTRUCTION. REPAIR DAMAGED ASPHALT EDGES PRIOR TO PROJECT COMPLETION. BLACK OUT OLD GAMES, ETC. AS REQUIRED TO COMPLETELY PAINT NEW GAMES. SEE DETAILS 12,13,18,19,20 G4.0
10. CONSTRUCT CURVED CONCRETE STEPS IN LOCATIONS NOTED. SEE DETAIL 10 G4.0.
11. SCHDULE 80, 1 1/2" DIA. ALUMINUM TUBE HAND RAIL SET IN PVC SLEEVE AND SET WITH NON SHRINK NON METALIC GROUT. SEE DETAIL 10 G4.0.
12. ALT. 24' X 48' PROW SHAPED VENTED GABLE PAVILION WITH MULTI RIB METAL ROOF #5E–P5–6 AS MANUFACTURED BY COVERWORX AND SUPPLIED BY MIDSTATES RECREATION 317–796–8210. CONSTRUCT MASONRY COLUMN BASES AND WOOD FRAMED AND SIDED STORAGE AREA AS DETAILED, SEE DETAILS 21,22,23 G4.0.
13. PROTECT DURING CONSTRUCTION. REGRADE AND RESEED ALL DISTURBED AREAS NOT COVERED IN OTHER IMPROVEMENTS PRIOR TO THE CONCLUSION OF CONSTRUCTION
14. SAWCUT AND TRIM EXISTING ASPHALT PAVING SMOOTH TO NEW LIMITS AS SHOWN. REPAIR ANY DAMAGED ASPHALT PAVING TO SPECIFIED STANDARDS.
15. FINE GRADE AND SOD DEFINED LAWN AREAS AS NOTED.
16. WOOD FIBER SAFETY SURFACE. SEE DETAILS 1,8,9,11 G4.0
17. NEW APPROVED FREEZEPROOF HYDRANT. CONNECT NEW HYDRANT TO EXISTING PROTECTED WATER LINE AND SEWER LINE IF REQUIRED.
18. INSTALL 15" DEEP X 12" WIDE GRAVEL FILLED ABSORPTION AREA. AGGREGATE TO BE 2" DIA. WASHED RIVER GRAVEL. EDGE AGGREGATE BED WITH 5 1/4" X 1/4" THICK BLACK PAINTED STEEL EDGING AS SEPARATION STRIP BETWEEN AGGREGATE AND LAWN OR PLANTING AREAS
19. INSTALL GFRC IMITATION WOOD LOG ROUNDS STEPPERS "NATUREROCKS"AS MANUFACTURED BY ULTRAPLAY/PLAYCORE AND AS AVAILABLE THROUGH WILLY GOAT PLAYGROUNDS, BIRMINGHAM, AL, 888–920–4628. INSTALL INTO SLOPE PER MANUFACTURERS RECOMENDATIONS. SEE DETAIL 17 G4.0.

GENERAL LAYOUT NOTES

1. ALL CONTRACTORS BUT NOT LIMITED TO THE EXCAVATING CONTRACTOR OR CONTRACTORS MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. ACTUAL FIELD LOCATIONS OF ALL THE EXISTING UTILITIES ARE THE CONTRACTORS RESPONSIBILITY AND MUST BE LOCATED EITHER BY THE REPRESENTIVE OF THE UTILITY COMPANY OR BY A PRIVATE UNDERGROUND UTILITY LOCATING COMPANY PRIOR TO THE START OF EXCAVATING. VERIFY MINIMUM COVER REQUIREMENTS BY THE UTILITY CONTRACTOR OR CONTRACTORS OR AGENCIES WHOMEVER UTILITY COMPANIES OR AGENCIES WHOMEVER HAS JURISDICATION SO NOT TO CAUSE DAMAGE.
2. ALL CONSTRUCTION METHODS AND MATERIALS MUST CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF THE FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
3. EXISTING PAVEMENT, SIDEWALKS CURBS DRIVEWAYS, ELECTRICAL TRANSFORMER, DITCHES, DRAINAGE PIPES AND STRUCTURES, FENCES, LAWNS, TREES, BUSHES, MAILBOXES, SIGNS, POWER POLES ETC., TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGE DURING CONSTRUCTION SHALL BE RESTORED, RECONSTRUCTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ALL DAMAGES SHALL BE RESTORED OR REPLACED TO AT LEAST THEIR ORIGINAL CONDITION OR AS REQUIRED OR DICTATED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS, WHICHEVER HAS JURISDICTION.
4. ALL AREAS WHERE THE EXISTING PAVEMENT OR PAVEMENTS ARE DAMAGED DURING CONSTRUCTION FROM HEAVY TRAFFIC OR EQUIPMENT, FUEL OIL, OIL, GASOLINE, ETC., BY THE GENERAL CONTRACTOR, SUBCONTRACTOR, OR SUPPLIERS, SHALL BE RECONSTRUCTED TO IT'S ORIGINAL CONDITION OR AS REQUIRED OR DICTATED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL AGENCIES. THIS RECONSTRUCTION AND REPAIR SHALL TAKE PLACE AT THE END OF THE PROJECT CONSTRUCTION OR DURING THE SCHEDULED GRADING AND PAVING OF THOSE AREA.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BARE ALL EXPENSES TO REMOVE, RELOCATE AND OR MODIFY ALL UTILITIES, PRIVATE, PUBLIC, UNLESS NOTED OTHERWISE ON PLANS. IT FURTHER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WITH EACH UTILITY COMPANY AND OR AGENT TO WHO IS RESPONSIBLE TO REMOVE, RELOCATE AND OR MODIFY SUCH UTILITIES EXISTING OR PROPOSED. IT FURTHER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY IF ANY FUTURE UTILITIES ARE PLANNED AND HOW IT MAY EFFECT THIS PROJECT AND ITS OWNER AS TO THEIR RESPONSIBILITIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AT HIS EXPENSE ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL AGENCIES.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO OBTAIN ALL FEDERAL, STATE, COUNTY, CITY OR LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED. THIS INCLUDES THE SUBMITTAL FOR LAND DISTURBANCE AND THE SUBMITTAL FOR SOIL EROSION AND SEDIMENT CONTROL IF REQUIRED. THE CONTRACTOR OR CONTRACTORS ARE RESPONSIBLE TO PAY FOR ALL REQUIRED PERMITS BY ANY OR ALL AGENCIES UNLESS OTHERWISE NOTED BY THE CONTRACT OR SPECIFICATIONS.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL THE UTILITY COMPANIES AND DEPARTMENTS 72 HOURS BEFORE CONSTRUCTION IS TO START TO VERIFY ANY UTILITIES THAT MAY BE PRESENT ON SITE. ALL VERIFICATIONS, LOCATIONS, SIZE AND DEPTHS SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES OR DEPARTMENTS. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE OF THE UTILITY CAN BE PRESENT DURING THE EXCAVATION TO INSTRUCT AND OBSERVE DURING THE EXCAVATION. CONTRACTOR TO CALL 811 OR 800–382–5544 BEFORE DIGGING.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT EACH DAY AND REMOVE ALL MUD, DIRT, GRAVEL AND LOOSE MATERIALS TRACKED, DUMPED, SPILLED OR WIND BLOWN FROM THIS SITE ONTO OTHER SITES, RIGHT OF WAYS, PUBLIC OR PRIVATE STREETS OR ROADS, DRIVEWAYS, YARDS OR SIDEWALKS. THE CONTRACTOR MUST CLEAN OR PICK UP DAILY IF NECESSARY. THE CONTRACTOR SHALL REDUCE THE AIRBORNE DUST DURING THE ENTIRE CONSTRUCTION SCHEDULE. WATER MAY NE USED AS A REDUCER.
10. THE UTILITIES INDICATED ON THESE PLANS MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THIS SITE. THE LOCATIONS AND SIZE OF THESE UTILITIES ARE APPROXIMATE. THIS INFORMATION WAS GATHERED OR SUPPLIED FROM OTHERS AND USED BY THE ARCHITECT AND OR ENGINEER AND MAY NOT BE ACTUAL. THE ARCHITECT AND OR ENGINEER AND MAY NOT BE HELD LIABLE FOR ANY INCORRECT OR MISLEADING UTILITY INFORMATION INDICATED, IMPLIED OR NOT INDICATED ON THESE PLANS.

PROPOSED SITE LEGEND

- NEW CONCRETE PAVING/PADS
- NEW PIP SYNTHETIC SURFACING AREAS (GRAY COLOR) -FOR ALL NEW PIP SURFACING : PROVIDE 70% STATED COLOR AND 30% BLACK
- NEW PIP SYNTHETIC SURFACING AREAS (BEIGE COLOR) -FOR ALL NEW PIP SURFACING : PROVIDE 70% STATED COLOR AND 30% BLACK
- NEW PTS PERMA TURF SYSTEM WITH SAND INFILL.
- SODDED LAWN: PROVIDE NEW 6" TOP SOIL AND NEW SHADE TOLERANT LAWN SOD PER PROJECT MANUAL WITHIN AREA
- WOOD FIBER SAFETY SURFACE. DEPTH TO BE DETERMINED BY PLAY EQUIPMENT REQUIREMENTS.

ZIONSVILLE COMMUNITY SCHOOLS PLAYGROUND IMPROVEMENTS

EAGLE ELEMENTARY SCHOOL
350 N. 6TH STREET
ZIONSVILLE, IN 46077

ZIONSVILLE COMMUNITY SCHOOLS ZIONSVILLE, INDIANA

ZIONSVILLE COMMUNITY SCHOOLS

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Project Status

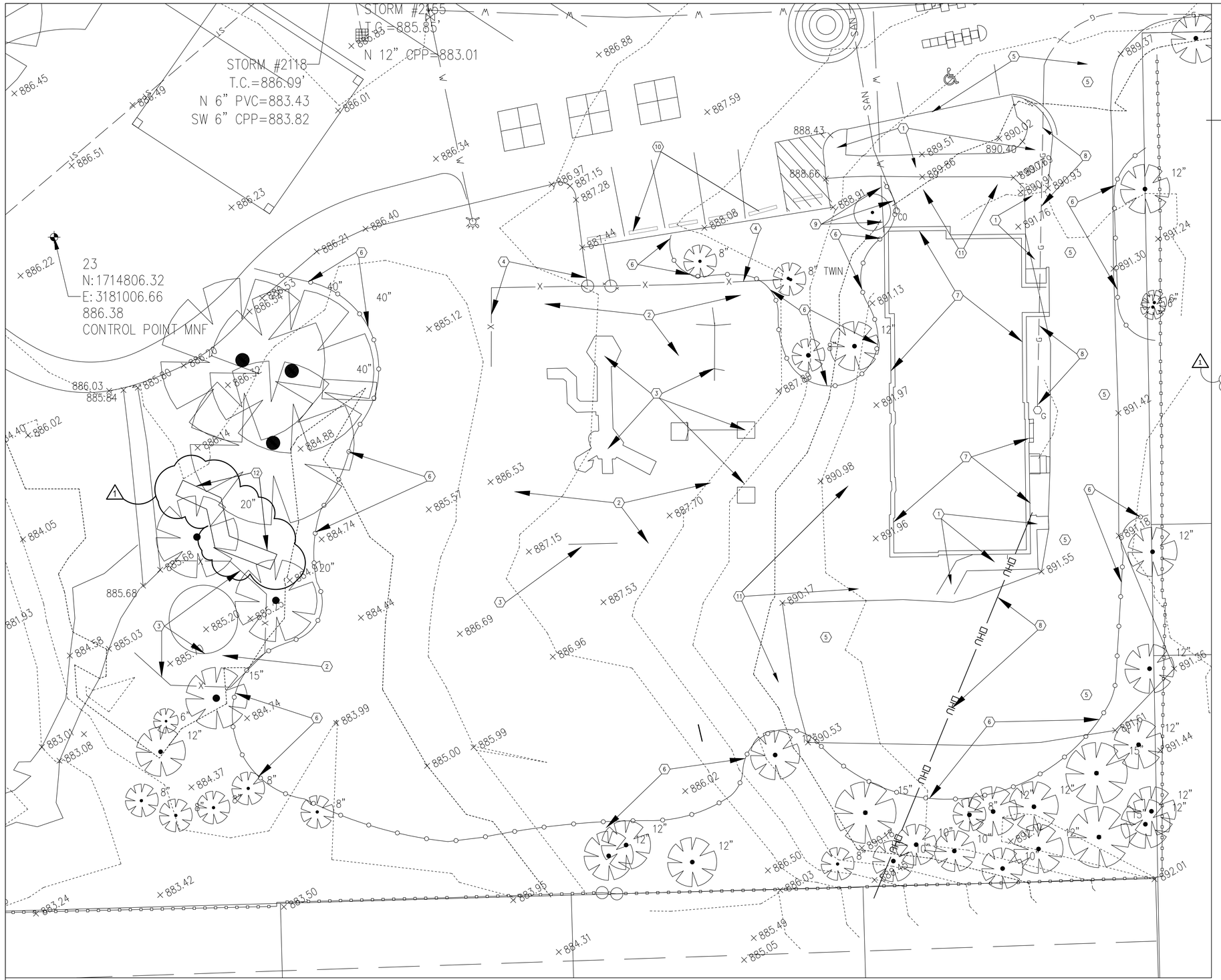
PAUL A. MILLER REGISTERED No. AR10800161 STATE OF INDIANA ARCHITECT

PROJECT MANAGER: JM
DRAWN BY: JB
PROJECT NUMBER: 223135.00
PROJECT ISSUE DATE: 1/22/2024

REV. NO.	DESCRIPTION	DATE
1	ADDENDUM #1	2-14-2024

EAGLE ELEMENTARY
SITE LAYOUT PLAN

G1.0



SITE DEMO PLAN

SCALE: 1" = 10'-0"

SCALE: 1" = 10'

NORTH

DEMOLITION PLAN NOTES

1. SAWCUT EXISTING CONCRETE PAVING AS NOTED IN CROSS HATCHED AREAS IN ITS ENTIRETY INCLUDING BASE AND DISPOSE OF OFF SITE AND DISPOSE OF OFF SITE AS APPROVED BY GOVERNING AGENCIES.
2. REMOVE EXISTING SOFT SURFACE MATERIAL AND ANY BASE AND DISPOSE OF OFF SITE.
3. REMOVE EXISTING PLAYGROUND EQUIPMENT IN ITS ENTIRETY INCLUDING FOUNDATIONS AND DISPOSE OF OFFSITE.
4. REMOVE EXISTING FENCING AND FOUNDATIONS AND REMOVE IN THEIR ENTIRETY AND DISPOSE OF OFFSITE.
5. SAWCUT AND REMOVE EXISTING ASPHALT PAVING AND AGGREGATE BASE AS NOTED IN SHADED AREAS AND DISPOSE OF OFF SITE IN A MANNER AND LOCATION AS APPROVED BY GOVERNING AGENCIES.
6. INSTALL ORANGE CONSTRUCTION FENCING AS TREE PROTECTION BARRIER IN LOCATIONS AS NOTED. KEEP ALL CONSTRUCTION TRAFFIC OFF OF AREA AND ONLY ALLOW ACTIVITY IN THE AREA WHEN NECESSARY TO COMPLETE WORK AT THE END OF ALL OTHER CONSTRUCTION. SEE DETAIL 14 G4.0
7. CONTRACTOR SHALL DEMOLISH EXISTING HOME AND REMOVE ALL DEBRIS INCLUDING FOUNDATION AND BASEMENT FLOOR SLAB AND DISPOSE OF OFF SITE IN A MANNER AND LOCATION AS APPROVED BY GOVERNING AGENCIES.
8. CONTRACTOR SHALL TERMINATE OR MAKE ARRANGEMENTS TO HAVE ALL UTILITIES TO EXISTING HOME AND ACROSS SITE WITHIN CONSTRUCTION AREA TERMINATED AND REMOVED IN THEIR ENTIRETY.
9. MAINTAIN AND PROTECT EXISTING WATER AND SEWER IF REQUIRED LINE FOR RECONNECTION TO NEW WATER HYDRANT.
10. REMOVE EXISTING CONCRETE BUMPER BLOCKS AND DISPOSE OF OFF SITE. PAINT OUT EXISTING PARKING STRIPING AS REQUIRED FOR NEW PLAYGROUND GAMES.
11. REMOVE ALL EXISTING SITE IMPROVEMENTS AS REQUIRED, WHETHER NOTED ON NOT TO ALLOW FOR NEW CONSTRUCTION.
12. PROTECT AND MAINTAIN EXISTING PLAY EQUIPMENT AS NOTED. REPLACE DAMAGED PARTS AND REPAIR EQUIPMENT TO A LIKE NEW CONDITION.

NOTE: CONTRACTORS SHALL CONDUCT A THOROUGH SITE INVESTIGATION AND VERIFY ALL EXISTING CONDITIONS IF NOTED ON PLANS OR NOT. REMOVE ALL MISC. EXISTING IMPROVEMENTS AS REQUIRED TO ALLOW FOR CONSTRUCTION OF NEW IMPROVEMENTS.

GENERAL DEMOLITION NOTES

1. THE SITE SHALL BE STRIPPED OF EXISTING IMPROVEMENTS AS NOTED. ALL THE REMOVED MATERIALS SHALL BE REMOVED FROM THE SITE BY THE GENERAL CONTRACTOR OR SUBCONTRACTOR
2. REMOVAL OF THE EXISTING IMPROVEMENTS ARE AS NOTED ON THE PLANS OR AS REQUIRED BY THE PROJECT. THE MATERIALS REMOVED FROM THE SITE SHALL BE DISPOSED OF IN A PROPER AND LEGAL MANNER PER FEDERAL, STATE, AND OR LOCAL LAWS AND ORDINANCES.
3. EXISTING PAVEMENT, SIDEWALKS CURBS DRIVEWAYS, ELECTRICAL TRANSFORMER, DITCHES, DRAINAGE PIPES AND STRUCTURES, FENCES, LAWNS, TREES, BUSHES, MAILBOXES, SIGNS, POWER POLES, IRRIGATION LINES AND EQUIPMENT, ETC., TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGE DURING CONSTRUCTION SHALL BE RESTORED, RECONSTRUCTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ALL DAMAGES SHALL BE RESTORED OR REPLACED TO AT LEAST THEIR ORIGINAL CONDITION OR AS REQUIRED OR DICTATED BY FEDERAL, STATE, COUNTY, CITY OR LOCAL REQUIREMENTS
4. SAW CUT THE EDGES OF PAVED AREAS CLEAN, NEAT AND TRUE TO LINE SO NO UNWANTED CHIPPING OR BREAKING OF EXISTING PAVEMENT TO REMAIN WILL OCCUR. IN AREAS OF PAVERS TO BE REMOVED OR SALVAGED DO NOT SAWCUT PAVER BUT REMOVE ENTIRE PAVER TO END OR EDGE OF DISTURBED AREA.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT EACH DAY AND REMOVE ALL MUD, DIRT, GRAVEL AND LOOSE MATERIALS TRACKED, DUMPED, SPILLED OR WIND BLOWN FROM THIS SITE ONTO OTHER SITES, RIGHT OF WAYS, PUBLIC OR PRIVATE STREETS OR ROADS, DRIVEWAYS, YARDS OR SIDEWALKS. THE CONTRACTOR MUST CLEAN OR PICK UP DAILY IF NECESSARY. THE CONTRACTOR SHALL REDUCE THE AIRBORNE DUST DURING THE ENTIRE DEMOLITION SCHEDULE. WATER MAY BE USED AS A REDUCER.
6. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROL DEVICES AS SPECIFIED OR AS REQUIRED BY CITY/ COUNTY DURING DEMOLITION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL THE UTILITY COMPANIES AND DEPARTMENTS 72 HOURS BEFORE DEMOLITION IS TO START TO VERIFY ANY UTILITIES THAT MAY BE PRESENT ON SITE. ALL VERIFICATIONS, LOCATIONS, SIZE AND DEPTHS SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES OR DEPARTMENTS. WHEN EXCAVATING AROUND OR OVER EXISTING UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTIVE OF THE UTILITY MAY BE PRESENT DURING THE EXCAVATION TO INSTRUCT AND OBSERVE DURING THE EXCAVATION. CONTRACTOR TO CALL 811 OR 1-800-382-5544 BEFORE DIGGING.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR CONTRACTORS TO OBTAIN ALL FEDERAL, STATE, COUNTY, CITY, AND LOCAL PERMITS FOR ANY AND ALL WORK REQUIRED UNLESS OTHERWISE NOTED. THIS SHALL INCLUDE ALL SUBMITTALS AS REQUIRED INCLUDING LAND DISTURBANCE, AND STORMWATER RUNOFF CONTROL. THE CONTRACTOR OR CONTRACTORS ARE RESPONSIBLE TO PAY FOR ALL REQUIRED PERMITS BY ANY OR ALL AGENCIES UNLESS OTHERWISE NOTED BY THE CONTRACT OR SPECIFICATIONS.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WITH EACH UTILITY COMPANY AND OR AGENT WHO IS RESPONSIBLE TO REMOVE OR RELOCATE EACH EXISTING UTILITY. IT FURTHER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BEAR THE COST FOR THE REMOVAL, TERMINATION OR RELOCATION OF UTILITIES IF THE RESPONSIBILITY IS NOT COVERED BY THE UTILITY COMPANY.
10. THE UTILITIES INDICATED ON THESE PLANS AND ON THE SURVEY MAY NOT BE A COMPLETE INVENTORY OF ALL THE EXISTING UTILITIES PRESENT ON AND AROUND THIS SITE. THE LOCATIONS AND SIZE OF THESE UTILITIES ARE APPROXIMATE. THIS INFORMATION WAS GATHERED OR SUPPLIED FROM OTHERS AND USED BY THE ARCHITECT AND OR ENGINEER AND MAY NOT BE ACTUAL. THE ARCHITECT AND OR ENGINEER MAY NOT BE HELD LIABLE FOR ANY INCORRECT OR MISLEADING UTILITY INFORMATION INDICATED, IMPLIED OR NOT INDICATED ON THESE PLANS.
11. ALL CONTRACTORS MUST TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. ACTUAL FIELD LOCATIONS OF ALL THE EXISTING UTILITIES ARE THE CONTRACTORS RESPONSIBILITY AND MUST BE LOCATED EITHER BY THE REPRESENTIVE OF THE UTILITY COMPANY OR BY A PRIVATE UNDERGROUND UTILITY LOCATING COMPANY PRIOR TO THE START OF DEMOLITION ACTIVITIES.
12. REMOVAL OF EXISTING CONCRETE OR OTHER PAVED AREAS INDICATED ON THE PLANS SHALL INCLUDE ALL AGGREGATE BASE MATERIALS IF REQUIRED. AREAS TO BE REMOVED SHALL BE SAW CUT CLEAN, NEAT AND TRUE TO LINE. REMOVE ALL NONORGANIC MATTER THAT WOULD INTERFERE WITH THE GROWTH OF TURF OR PLANT MATERIAL IN AREAS TO BE PLANTED.
13. THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO COMMENCEMENT OF DEMOLITION OPERATIONS. NO DEMOLITION, GRADING OR OTHER WORK SHALL COMMENCE UNTIL A COORDINATION MEETING HAS BEEN HELD BETWEEN THE CITY AND CONTRACTOR.

ZIONSVILLE COMMUNITY SCHOOLS PLAYGROUND IMPROVEMENTS

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SITE DEMO PLAN

GD1.0