ADDENDUM NO. 3

November 6, 2023

HANOVER COMMUNITY SCHOOLS - JANE BALL ELEMENTARY RENOVATIONS AND HIGH SCHOOL IMPROVEMENTS

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 October 13, 2023 by Gibraltar Design. 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 Page ADD 3-1 and attached Addendum No. 3 from Gibraltar Design dated November 3, 2023 and consisting of 3 pages, Revised Specification Sections 10 51 14 - Ventilated Lockers, and 24 drawings.

A. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

A. BID CATEGORY NO. 1 - SITEWORK/GENERAL TRADES

1. **Add:**

Clarification No. 13:
Reference Architectural Drawings; The **Bid Category No. 1 Contractor** is responsible for infilling all remaining openings where mechanical demolition has taken place as indicated on the construction documents.

Clarification No. 14:
Reference Exterior Elevations; The **Bid Category No. 1 Contractor** is responsible for relocating the existing aluminum lettering as indicated on the construction documents.

ADDENDUM THREE

Addendum Two (AD.03) to the drawings and specifications prepared by Gibraltar Design for **Hanover CSC – Jane Ball ES Renovation and HS Improvements** for Hanover Community School Corporation, Cedar Lake, Indiana.

All Contractors bidding on this project shall read all of the items covered below and shall comply with all of the requirements as set forth, including any necessary refinements or additions generated by this Addendum and required by the intent of the original contract documents. All Contractors shall acknowledge on their bid form that they have received this Addendum, Addendum One and Two, and include the appropriate content of same within their bid proposal.

SPECIFICATIONS

1. Specification Section 10 51 14 Ventilated Lockers

A. Replace Specification Section 10 51 14, Ventilated Lockers, with Specification Section 10 51 14 included in this Addendum.

DRAWINGS

2. Sheet G-201 & G-202

A. Refer to revised full-size drawing, included in this Addendum for the addition of the Code Summary.

3. Sheet C-1.1

A. Refer to revised full-size drawing, included in this Addendum for the following revisions.

1. The legend for demolition notes was modified removing the text for the concrete stairs, entranceway, and flagpole.
2. Some additional sidewalk was added to be demolished at the northern entrance.
3. The demolition of the stairs and entranceway was removed from the scope of work.
4. The flagpole removal was removed from scope of work.

4. Sheet C-2.0

A. Refer to revised full-size drawing, included in this Addendum for the following revisions.

1. Additional sidewalk at the north entrance was added.
2. New flagpole was removed from the scope of work.

5. Sheet C-3.0

A. Refer to revised full-size drawing, included in this Addendum for the addition of proposed elevations for the new sidewalk.

6. Sheet C-4.0

A. Refer to revised full-size drawing, included in this Addendum for the revision to the

handicap ramp details.

7. Sheet C-5.0

A. Refer to revised full-size drawing, included in this Addendum for the addition of silt fencing around the new sidewalk.

8. Sheet S-100

A. Refer to revised full-size drawing, included in this Addendum for the following revisions.

1. Lintels added for new mechanical ducts.
2. Lintels added at exterior walls for new VUV louvres.

9. Sheet S-101

A. Refer to new full-size drawing, included in this Addendum for Lintels added at exterior walls for new VUV louvers.

10. Sheet S-102

A. Refer to revised full-size drawing, included in this Addendum for the following revisions.

1. Sheet number revised (originally S-101).
2. The top of steel elevation for new beams adjusted.
3. Foundation plan note revised as shown.
4. Keynote 4 was added to the framing plan.

11. Sheet S-103

A. Refer to new full-size drawing, included in this Addendum for mechanical yard wall and typical details.

12. Sheet S-401

A. Refer to revised full-size drawing, included in this Addendum for the following revisions.

1. Block changed to 8" on sections 1 and 2.
2. The top of steel elevation adjusted on details 9 and 13.
3. Truss heel height noted to be field verified in order to match existing conditions on section 13.
4. New details 14 and 15 added.

13. Sheet AD-110

1. Refer to revised full-size drawing, included in this Addendum for the addition of note 16 in the showers in both locker rooms.

14. Sheet A-101

A. Refer to revised full-size drawing, included in this Addendum for the following revisions.

1. Add note to epoxy inject cracks in the concrete stoop and foundation at and around the north entrance.
2. Revise note 10 to call out louver size.

15. Sheet A-102

A. Refer to revised full-size drawing, included in this Addendum for the following revisions.

1. Add note 25 to epoxy inject cracks in the concrete stoop and foundation at and around the north entrance.

2. Add note 26 to cap existing mechanical opening in ceiling of the cafeteria.

16. Sheet A-103

A. Refer to revised full-size drawing, included in this Addendum for the revision of note 10 to call out louver size.

17. Sheet A-110

A. Refer to revised full-size drawing, included in this Addendum for the addition of note 22 in the showers of both locker rooms.

18. Sheet A-201

A. Refer to revised full-size drawing, included in this Addendum for the addition of note 6 for the mechanical unit over the cafeteria that is being demoed.

19. Sheet A-301

A. Refer to revised full-size drawing, included in this Addendum for the location of the relocated Aluminum Letters.

20. Sheet M-102 & M-103

A. Refer to revised full-size drawing, included in this Addendum for the following revisions.

1. Remove louver LV-1 and LV-2 tag from self-contained units.
2. Revise Sheet Note 5.

21. Sheet M-200

A. Refer to revised full-size drawing, included in this Addendum for the removal of the Louver Schedule.

22. Sheet M-201

A. Refer to revised full-size drawing, included in this Addendum for revisions to the Unit Ventilator sections.

23. Sheet P-110

A. Refer to revised full-size drawing, included in this Addendum for revisions to the shower fixture.

Pages 1 through 3, inclusive, Specification Sections 10 51 14 and twenty-four (24) Full-Size Drawings, constitute the total makeup of **Addendum Three**.

GIBRALTAR DESIGN

Joseph P. Briggs

Y:\23-140 Hanover CSC - Jane Ball Elementary School Renovation\Specs\ADDENDUM TWO\AD02.doc

SECTION 10 51 14
VENTILATED LOCKERS

1 General

1.1 Section Includes

A. Ventilated locker units with hinged doors.

B. Trim and accessories.

C. Hooks, latches, and hardware.

D. Attachment hardware.

1.2 Related Sections

A. Section 03 30 00 - Concrete: Concrete bases.

B. Section 04 20 00 - Unit Masonry: Masonry for bases.

C. Section 06 10 00 – Rough Carpentry: Wood grounds and nailing strips.

D. Section 08 71 00 - Door Hardware: Padlocks.

E. Section 10 51 13 - Metal Lockers.

1.3 System Description

A. Lockers Type A: All welded construction; 12-inch x 12-inch x 60-inch single-tier lockers; on concrete bench; with metal base; with sloped tops; recessed combination locks; padlock hasps; end closures; end panels; corner units; fillers; trim molds.

B. Lockers Type A: All welded construction; 24-inch x 18-inch x 60-inch single-tier lockers; on concrete bench; with metal base; with sloped tops; recessed combination locks; padlock hasps; end closures; end panels; corner units; fillers; trim molds.

C. Ship all units set-up with no nuts and bolts or hazardous projections used in assembly.

1. Knock down units are not acceptable.

1.4 Submittals

A. Submit shop drawings under provisions of Division 1.

1. Include locker types, sizes, configurations, layout of groups of lockers, accessories, and numbering plan.

B. Submit product data under provisions of Division 1.

C. Submit samples for color selections under provisions of Division 1.

1.5 Protection

A. Store and protect lockers under provisions of Division 1.

B. Protect locker finishes and adjacent surfaces from damage during installation.

2 Products

2.1 Ventilated Lockers - Acceptable Manufacturers

A. Lyon Workspace Products, Aurora, Illinois.

B. No substitutions will be accepted.

2.2 Materials

A. Sheet Steel: Prime grade, free from scale and imperfections; of the following minimum thicknesses.

1. Body: 16-gauge steel, flanged to give double thickness of metal at back vertical corners. 18-gauge backs.

2. Door Frame: 16-gauge formed steel channels. Vertical members shall have an additional flange to form continuous door strike. Corners shall be lapped and welded into a rigid assembly. In addition, bottom cross members shall have tang at each end that fits through slot in rear flange of upright frame member to prevent twisting out of alignment. Top and bottom cross members shall provide support for front edge of locker top and locker bottom.

3. Doors: One-piece, 14-gauge steel on single, double and triple tier with both vertical edges formed into channel-shaped formation; top and bottom shall be flanged at 90 degree angle. On multiple tier lockers, hinge side shall be formed into channel shaped formation with other three sides flanged at 90 degree angle.

4. Door Jambs: 48" and higher single tier lockers shall have three door jambs; double tier and triple tier lockers shall have two jambs welded to side of door frames to engage locking device. Design and gauge of jamb shall prevent freeing of locking device by prying. Each jamb shall have easily replaceable soft rubber bumper.

5. Hinges: Shall be not less than 2" high, .050" steel, 5 knuckle, full loop design forming double thickness on each leaf. Hinges to be set in slot in door and frame and projection welded to frame and securely attached to door. Hinge pin to be spun over at ends to resist removal. Single-tier lockers 48", 60" and 72" high to have three hinges. All other tiers to have two hinges – all on right hand side of door. Optional continuous hinge available.

6. Bottoms: Solid, 16 gage.

7. Tops and Horizontal Dividers: Solid, 16 gage.

8. Shelves: Single tier lockers shall have one 16-gauge shelf approximately 9" below top. Flanged on all four sides for strength with the front flange turned 45 degrees for safety and attached at no less than two points through each side flange. Only single tier lockers 48" and taller have shelves.

9. Quiet Locking Devices: Single tier locking device shall engage frame at three points; double tier and triple tier at two points. Channel shaped locking device with full length reinforcing ribs shall be a quiet design utilizing nylon guide inserts to reduce metal to metal contact. The locking device shall include a latch finger that engages the 12-gauge door jamb. Lock bar shall be enclosed on three sides and operate within the channel formation of the door. Locking device shall be prelocking so mechanism can be locked in open position – door locking automatically when closed. An optional single point latch shall be available except on 9" wide lockers. Box locker shall have one-point locking device with a 14-gauge lock clip for attaching padlock. Doors also to be provided with lock hole filler to permit use of built in lock.

10. Sloping Tops: Solid, 20 gage.

11. Metal Zee Base: 14 gage front Zee base, with rear legs, cross bracing, and end plates, 4 inches high.

2.3 Accessories

A. Hooks: Single tier, double tier and triple tier lockers shall have one double prong hook and three single prong wall hooks. All hooks to be zinc-plated or subjected to a comparable rust retardant treatment and attached with two nuts and bolts.steel.

B. Number Plate: Polished aluminum, 2 1/4 inches wide by 1 inch high, 3/8 inch black etched numerals; attach with rivets.

C. Rubber Bumpers: Provide rubber silencers on door jambs.

D. Locking Device/Handles: On single, double and triple tier lockers, handles shall be stainless steel recessed. No moving parts are to operate against outside surface of locker. Padlock attachment to be integral part of lift which shall be attached directly to locking bar and protected by fixed handle housing. Handle to provide built in padlock strike. The recessed handle shall be 4-1⁄8"w x 6-1⁄16"h x 1-1⁄4"d. Multiple tier lockers shall be equipped with a 16-gauge door pull with padlock attachment when not used with built in locks.

1. Padlock Hasps: Provide all lockers with padlock hasps.

    a. Padlocks will be provided by the Owner.

2.4 Fabrication

A. General: Weld all seams and joints, grind exposed joints smooth.

B. Size: Refer to Drawings.

C. Hinges: Three per door for doors 48 inches and higher or continuous hinges.

1. Weld or rivet securely to unit body and weld to unit door.

D. Provide end panels, sloped metal tops, corner units, metal bases, and filler panels to close off all openings.

E. Finish edges smooth without burrs.

F. A. D. A. Compliant Lockers:

1. Single tier locker.

2. Provide recessed handles.

3. Locate locker bottom a minimum of 9 inches off the locker base, or place an extra shelf 9 inches off the locker base.

4. Provide single tier lockers with a shelf 48 inches off the floor.

5. Provide doors assigned for handicapped use with an appropriate symbol sign.

2.5 Finishes

A. Clean and phosphate treat metal; electrostatically spray with one coat of epoxy based paint and bake to a glossy finish.

B. Locker doors and bodies may be required to be different colors.

C. Colors: **Red Velvet.**

3 Execution

3.1 Preparation

A. Verify bases are properly sized and located.

B. Obtain job dimensions and coordinate sizes.

C. Verify quantities of lockers required.

3.2 Installation

A. Install lockers secure, plumb, square, and in line.

1. Set on prepared base provided.

B. Anchor lockers with appropriate anchor devices to suit materials encountered.

C. Install end panels, filler panels, sloped tops, bases, corner units, and trim to completely close off openings.

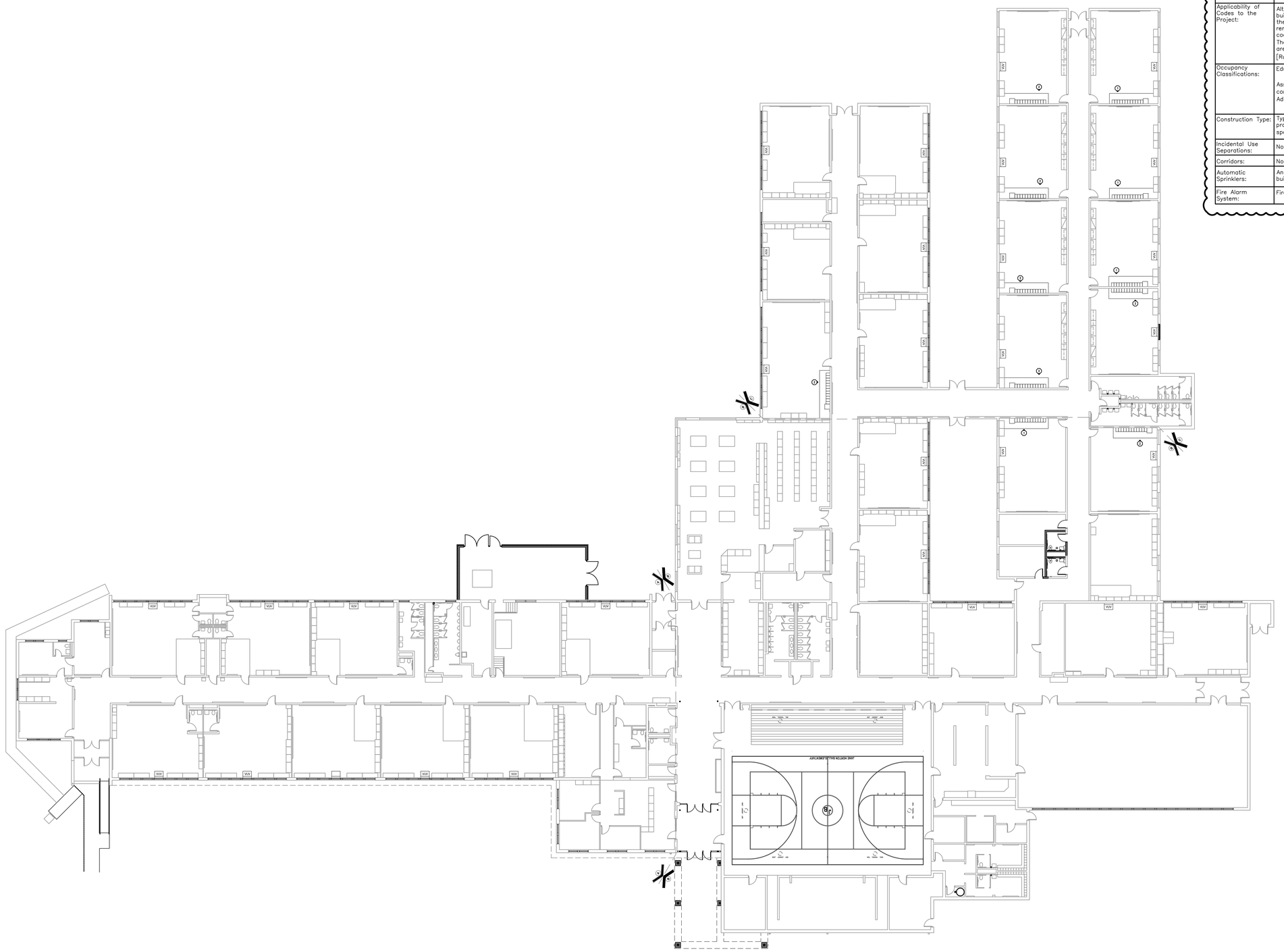
END OF SECTION

LIFE SAFETY GENERAL NOTE:

LIFE SAFETY INFORMATION IS PROVIDED FOR USE BY ALL CONTRACTORS. CONTRACTORS ARE RESPONSIBLE FOR COMPLYING WITH CODE REQUIREMENTS (INCLUDING BUT NOT LIMITED TO: RATED ASSEMBLIES, FIRE PROTECTION, FIRESTOPPING, DAMPERS, AND HARDWARE) INDICATED INCLUDING CONDITIONS WHERE THESE REQUIREMENTS ARE NOT DETAILED. REPORT CONFLICTS OR DISCREPANCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO STARTING WORK.

Applicable Code:	2014 Indiana Building Code (IBC 2012) General Administrative Rules, 2nd Edition GAR
Scope of Project:	• New canopy at front entrance, new entry doors and creation of secure entry. • 2 new staff toilet rooms. • Window replacement. • Replace horizontal unit ventilators with new VUV's and RTU for the Cafeteria. • New accessible ramp at north end entrance. • EIFS repair at front of building.
Applicability of Codes to the Project:	Alterations and additions are permitted to an existing building without requiring the entire building or portions of the existing building unaffected by the proposed scope of renovation to be brought into compliance with current codes. The scope of construction within the alteration and addition are required to comply with current codes. [Rule 4, Section 12(b), GAR]
Occupancy Classifications:	Educational use areas for elementary school students – E Occupancy [305.1] Assembly uses accessory to an E Occupancy are not considered separate occupancies [303.1.3] Administrative area – accessory occupancy – B Occupancy [304.1, 508.2]
Construction Type:	Type IIB Construction permitted based upon sprinkler protection throughout and 60 feet of surrounding open space – unlimited area. [507.3]
Incidental Use Separations:	None applicable to this project [Table 509]
Corridors:	No change to existing corridor construction
Automatic Sprinklers:	An automatic sprinkler system is existing throughout the building.
Fire Alarm System:	Fire alarm system is existing throughout the building.

AD-3



OVERALL FLOOR PLAN

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

NORTH

GIBRALTAR
DESIGN
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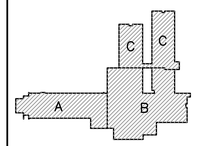
PROJECT

HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA



KEY PLAN

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PROJECT 23-140
DATE 10/13/23
COORDINATED BY DTB
DRAWN BY DTB
CHECKED BY DTB DJW

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-3	11/03/23	ADDENDUM NO.3

DRAWING

JANE BALL LIE SAFETY PLAN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET

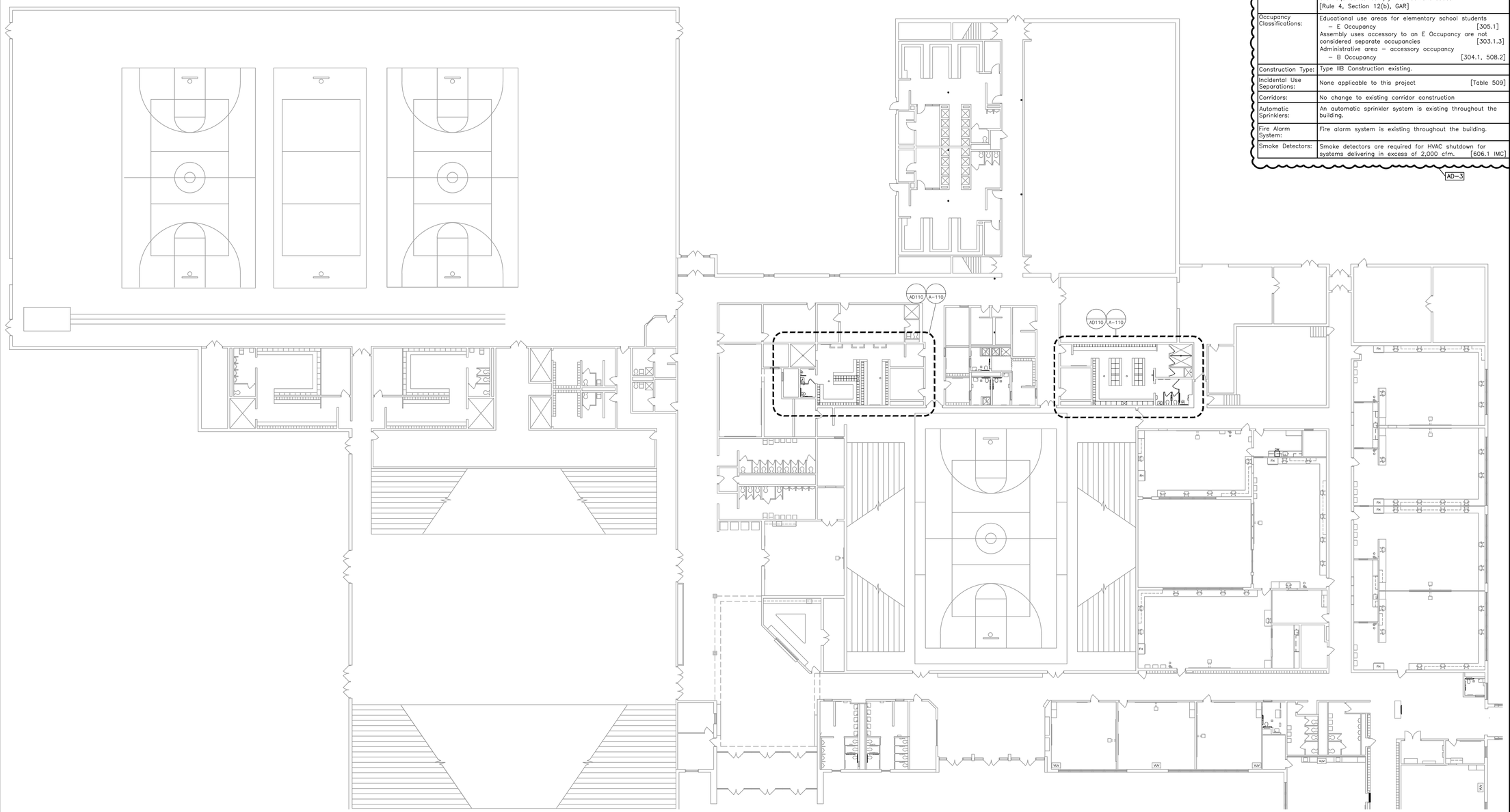
JB G-201

LIFE SAFETY GENERAL NOTE:

LIFE SAFETY INFORMATION IS PROVIDED FOR USE BY ALL CONTRACTORS. CONTRACTORS ARE RESPONSIBLE FOR COMPLYING WITH CODE REQUIREMENTS (INCLUDING BUT NOT LIMITED TO: RATED ASSEMBLIES, FIRE PROTECTION, FIRESTOPPING, DAMPERS, AND HARDWARE) INDICATED INCLUDING CONDITIONS WHERE THESE REQUIREMENTS ARE NOT DETAILED. REPORT CONFLICTS OR DISCREPANCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO STARTING WORK.

Applicable Code:	2014 Indiana Building Code (IBC 2012) General Administrative Rules, 2nd Edition GAR 2014 Indiana Mechanical Code (IMC)
Scope of Project:	• New canopy at front entrance, new entry doors and creation of secure entry. • 2 new staff toilet rooms. • Window replacement. • Replace horizontal unit ventilators with new VUV's and RTU for the Cafeteria. • New accessible ramp at north end entrance. • EIFS repair at front of building.
Applicability of Codes to the Project:	Alterations and additions are permitted to an existing building without requiring the entire building or portions of the existing building unaffected by the proposed scope of renovation to be brought into compliance with current codes. The scope of construction within the alteration and addition are required to comply with current codes. [Rule 4, Section 12(b), GAR]
Occupancy Classifications:	Educational use areas for elementary school students – E Occupancy [305.1] Assembly uses accessory to an E Occupancy are not considered separate occupancies [303.1.3] Administrative area – accessory occupancy – B Occupancy [304.1, 508.2]
Construction Type:	Type IIB Construction existing.
Incidental Use Separations:	None applicable to this project [Table 509]
Corridors:	No change to existing corridor construction
Automatic Sprinklers:	An automatic sprinkler system is existing throughout the building.
Fire Alarm System:	Fire alarm system is existing throughout the building.
Smoke Detectors:	Smoke detectors are required for HVAC shutdown for systems delivering in excess of 2,000 cfm. [606.1 IMC]

AD-3



OVERALL ATHLETIC FLOOR PLAN
SCALE: ViewportScale

NORTH

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PROJECT
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HANOVER COMMUNITY SCHOOL CORPORATION
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PROJECT 23-140
DATE 10/13/23
COORDINATED BY DTB
DRAWN BY DTB
CHECKED BY DTB DJW

JOSEPH P. BRIGGS
REGISTERED
NO. 11600109
STATE OF INDIANA
ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-3	11/03/23	ADDENDUM NO.3

DRAWING
HIGH SCHOOL LIFE SAFETY PLAN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
G-202

Friday, 11/3/2023 - 9:10 AM - LAST SAVED BY:DBURNS
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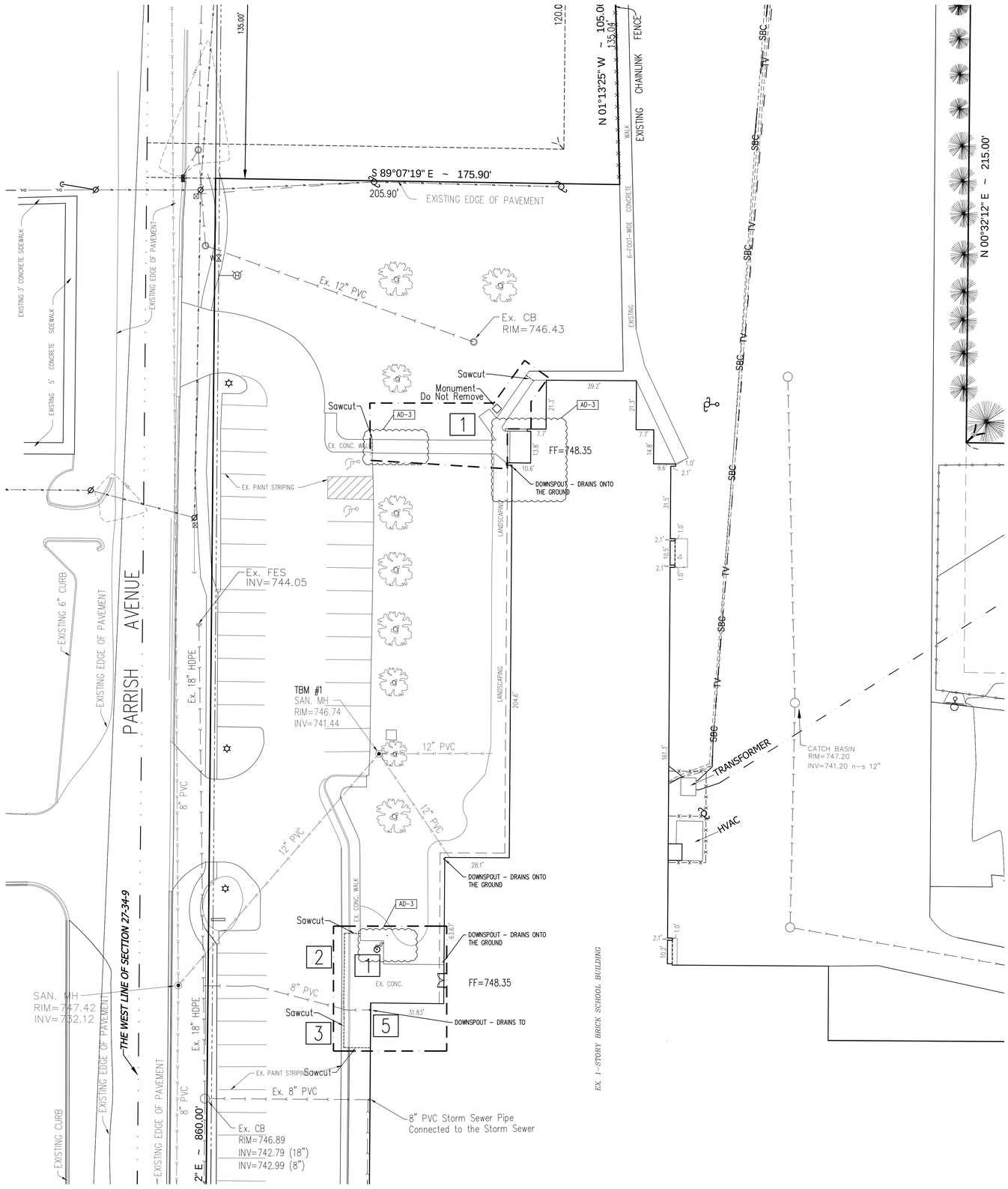

DEMOLITION NOTES

1. REMOVE CONCRETE SIDEWALK (AD-3)
2. REMOVE CURB / CURB & GUTTER
3. REMOVE ASPHALT (AD-3)
5. REMOVE DOWNSPOUT & DISCONNECT FROM STORM SEWER

NOTE:

1) Temporary Benchmark Number 1 is the Northern Rim of the existing sanitary manhole located northwest of the main entrance. Elevation = 746.74

2) Temporary Benchmark Number 2 is the Northern Rim of the existing sanitary manhole located south of the building. Elevation = 746.93

3) The Contractor is responsible to verify all existing site conditions and shall notify the Architect/Engineer immediately of any discrepancies between the existing conditions and all proposed improvements in the construction drawings.

NORTH
GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS
HANOVER COMMUNITY SCHOOL CORPORATION
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PROJECT 23-140
DATE 10/16/23
COORDINATED BY DCT
DRAWN BY DCT EM
CHECKED BY DCT

DONALD C. TORRENGA REGISTERED No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER

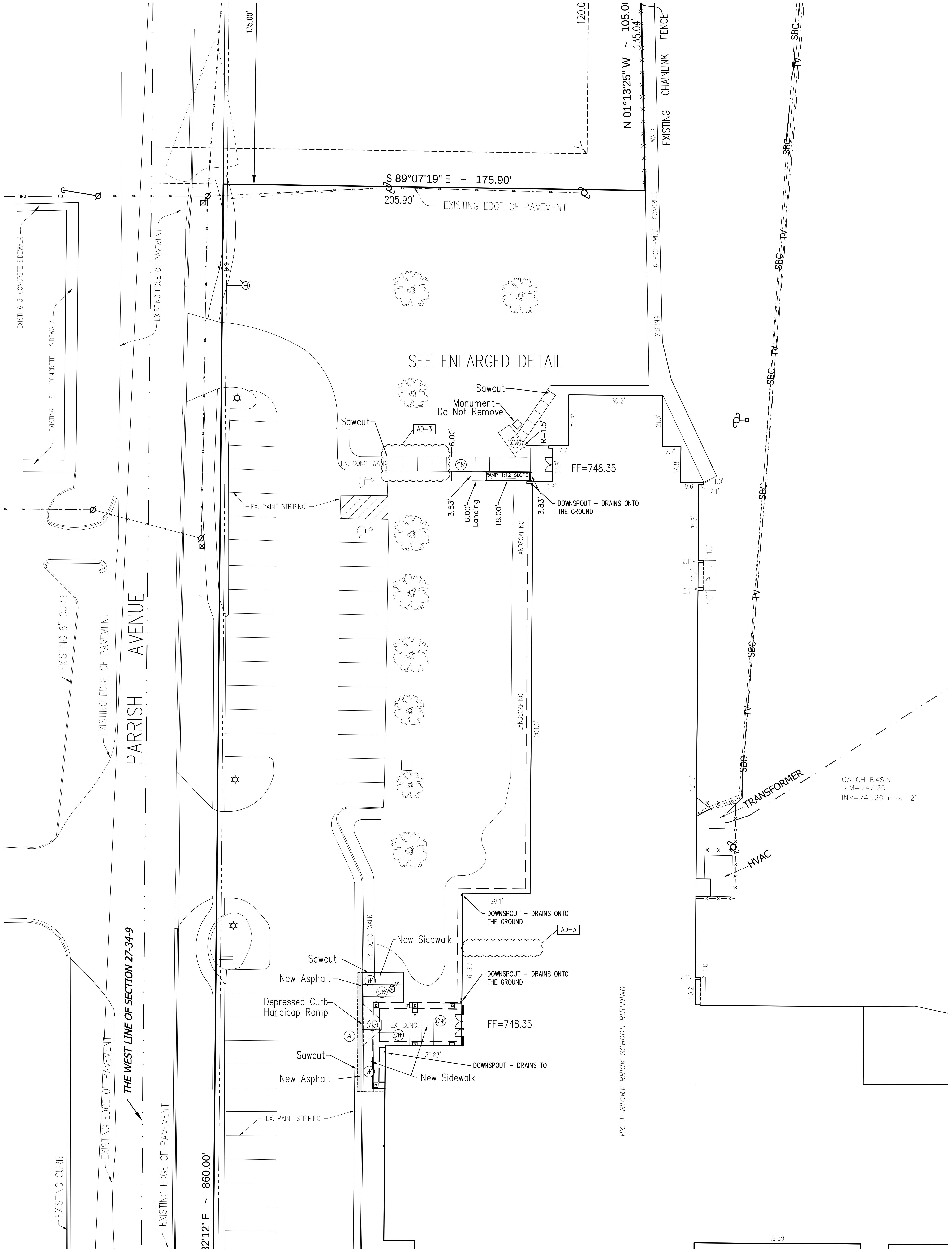
REVISIONS

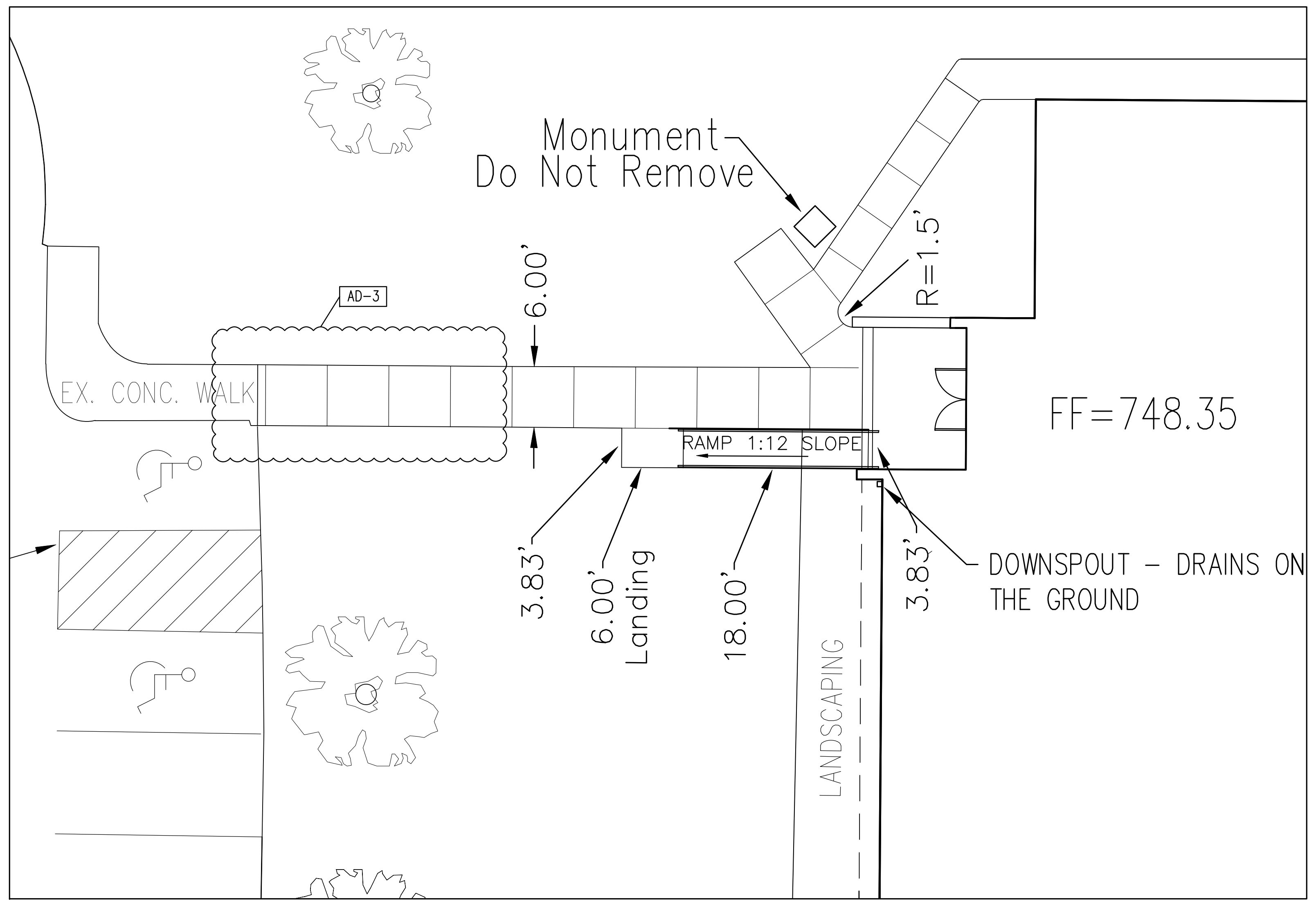
MARK	DATE	ISSUED FOR
AD-1	10/24/23	ADDENDUM NO. 1
AD-3	11/03/23	ADDENDUM NO. 3

DRAWING
DEMOLITION PLAN

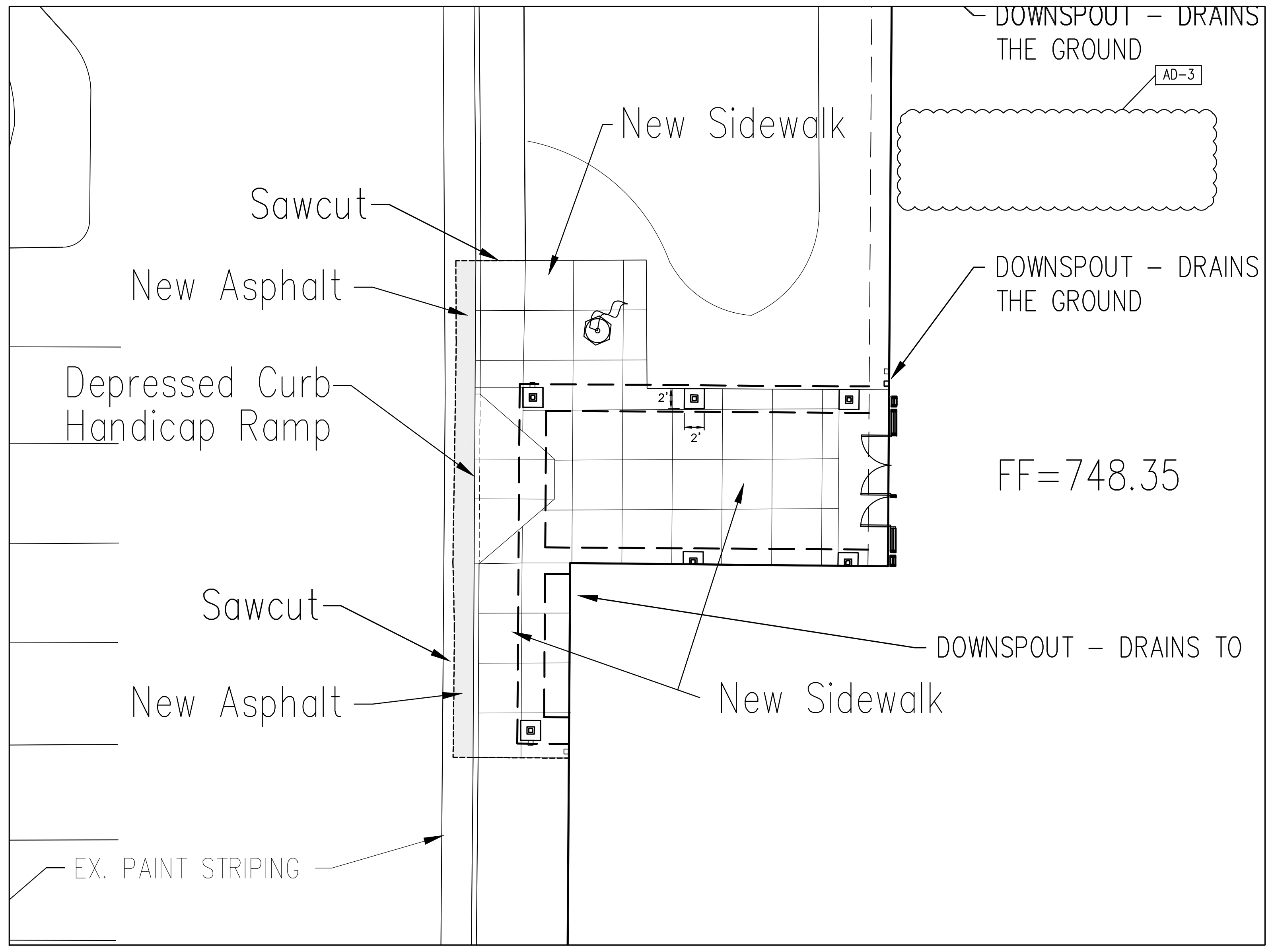
PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
C-1.1





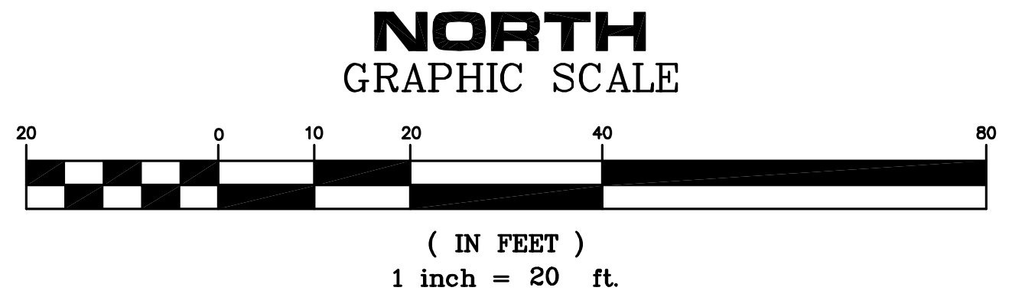
NORTHERN ENTRANCE
SCALE: 1"=40'



SOUTHERN ENTRANCE
SCALE: 1"=40'

LEGEND:
PROPOSED

Ⓐ	▨	ASPHALT PAVEMENT SECTION
Ⓦ	▦	TYPICAL PERIMETER SIDEWALK
CW	▦	CONCRETE SIDEWALK
HC		HANDICAP ACCESS RAMP



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PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS
HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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PROJECT
23-140
DATE
10/16/23
COORDINATED BY
DCT
DRAWN BY
DCT EM
CHECKED BY
DCT

DONALD C. TORRENGA
REGISTERED
No. 19868
STATE OF INDIANA
PROFESSIONAL ENGINEER
Donald C. Torrenga

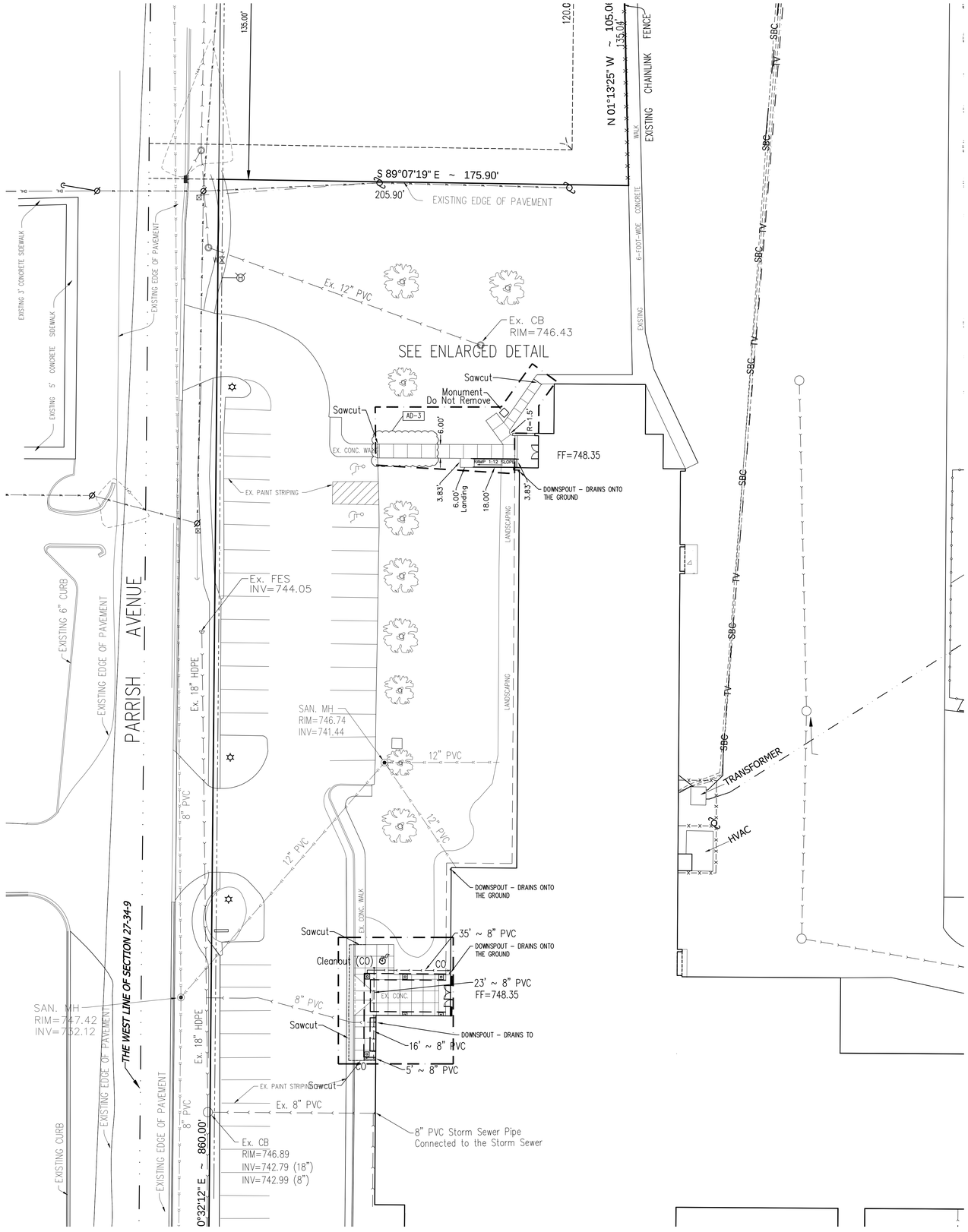
REVISIONS

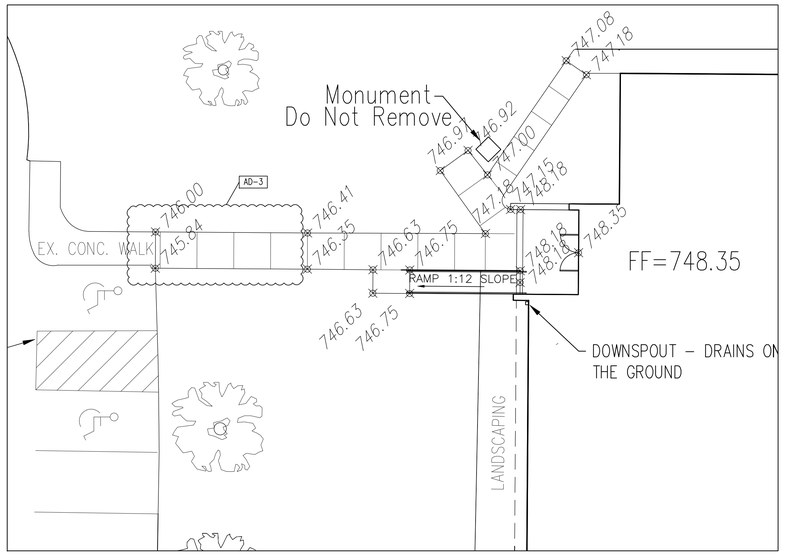
MARK	DATE	ISSUED FOR
AD-1	10/24/23	ADDENDUM NO. 1
AD-3	11/03/23	ADDENDUM NO. 3

DRAWING
SITE PLAN

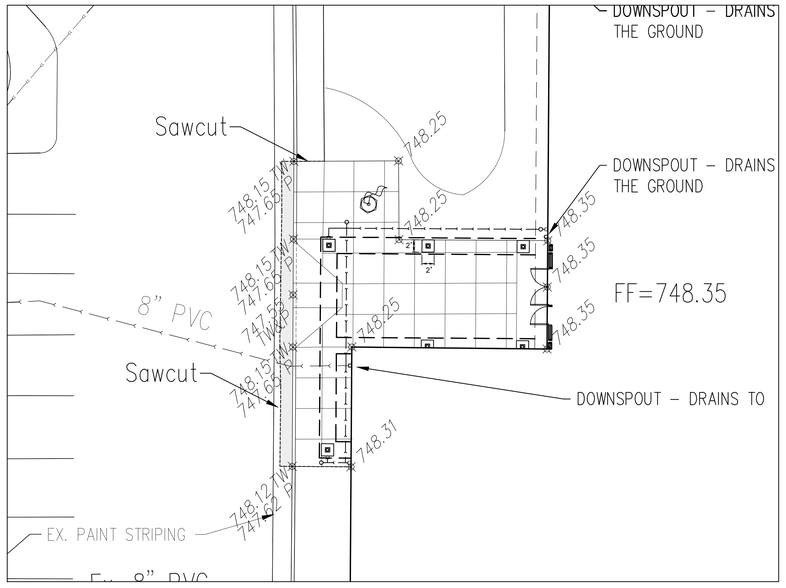
PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
C-2.0





NORTHERN ENTRANCE
SCALE: 1"=40'



SOUTHERN ENTRANCE
SCALE: 1"=40'

NORTH
GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

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PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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Phone 317.580.5777 Fax 317.580.5778

PROJECT 23-140
DATE 10/16/23
COORDINATED BY DCT
DRAWN BY DCT EM
CHECKED BY DCT

DONALD C. TORRENGA REGISTERED No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	10/24/23	ADDENDUM NO. 1
AD-3	11/03/23	ADDENDUM NO. 3

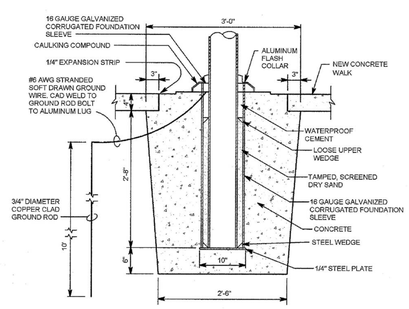
DRAWING
GRADING PLAN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

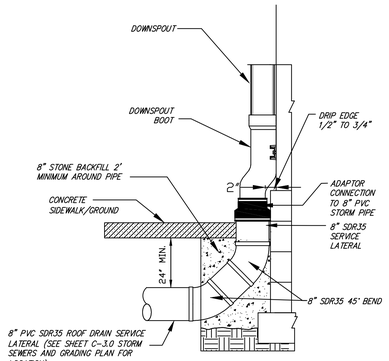
SHEET
C-3.0

GENERAL SPECIFICATIONS FOR STORM SEWERS

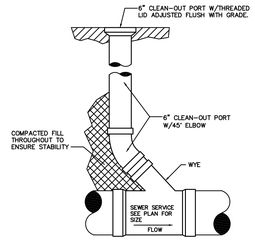
1. All work shall be performed in accordance with the Codes, Ordinances and Development Standards Manual of the Town of Cedar Lake and the 10 State Standards.
2. All storm sewer pipe, branches and fittings shall conform to either of the following: (A) Polyvinyl Chloride Type PSM (ASTM D-3034), SDR 26 with push-on rubber gasket joints (ASTM D-3212) less than 15" or: (B) Ductile Iron Pipe (AWWA C151), for pipe equal to or greater than 15 inch diameter, or: (C) Reinforced concrete pipe (ASTM C-76) with bell and spigot or tongue and groove push-on majestic joints, Class IV reinforced concrete pipe. ADS N12 ST perforated and non-perforated plastic pipe shall be used for drain tile applications only. Installation shall conform with ASTM D-22321 recommended practices, for pipe equal to or greater than 15 inch diameter.
3. All storm sewer manholes, catch basins, inlets and yard drains shall be standard precast concrete units (ASTM C-478) conforming to the standard detail sheet of these plans. Special Nyoplast Inline Catch Basins shall be used to drain the soccer field.
4. All improvements installed across paved or future paved areas shall be backfilled with graded stone aggregate to the subgrade line. Compaction shall be done in 12" maximum depth lifts to 95% maximum dry density.
5. Care shall be taken in parkway areas to assure compaction acceptable for the future stability of driveways and sidewalks. While special backfill material is not required, it shall be the responsibility of the Contractor to protect against potential future settlement of backfilled areas.
6. Pipe Grade shall be held within +/- 0.1 foot between manholes and the deviation per pipe length shall not exceed +/- ½ inch. Backfill shall be carefully placed to avoid pipe displacement, displacement of pipe shall not exceed 0.2 foot between manholes.
7. All sewers shall be laid at least 10 feet (3.0m) horizontally from any existing or proposed water main. The distance shall be measured edge to edge. All sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches (46 cm) between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to prevent damage to the water main. When it is impossible to obtain proper 10' horizontal and 18" vertical separation as stipulated above, the sewer shall be designed and constructed equal to water main pipe, a full length sewer pipe will be centered on the water main it is crossing.
8. Prior to release of any portion of the performance bond and after completion of all public improvements, the Owner shall make, or cause to the made, "As-Built" construction drawing showing the actual location, size, and lengths of all street improvements, sanitary and storm sewer improvements, water main improvements including valves, stubs and lateral and water services, and any other permanent improvements that the subdivider installs. The "As-Built" construction drawing shall be coordinated with sanitary and storm sewer video to ensure that lateral locations are properly located on the drawing. The "As-Built" construction drawing shall include as-built elevations at lot corners, breakpoints, low points, and building pad locations at the same location as shown on the approved grading plan. The "As-Built" construction drawing shall also be based on daily field drawings and no attempt shall be made to reconstruct locations after the fact. The "As-Built" construction drawing shall include as-built inverts, coordinates and rim elevations for all manholes, pipes, valves, and outlet structures. This "As-Built" construction drawing shall bear the signature and seal of a civil engineer registered in the State of Indiana and shall be submitted in three copies to the Administrator on reproducible materials. The as-built drawings shall also be submitted to the Administrator on electronic media in the latest AutoCAD release format. All data shall be provided in the Indiana State Plan Coordinate system.
9. Provide an electrically continuous type TW insulated #10 tracer wire. The wire shall be installed along the pipe, fastened to the pipe at twenty foot (20') intervals and terminated above ground with the lead taped around each structure.
10. Deflection test in accordance to ASTM D-3033 Standard shall be performed on all flexible pipe materials placed. The contractor shall be responsible for supplying testing materials and appurtenances. The tests shall be conducted after the final backfill has been in place at least 30 days. No pipe shall exceed a deflection of 5%. The deflection test is to be run using a rigid ball or mandrel, it shall have a diameter equal to 95% of the inside diameter of the pipe. The test shall be performed without mechanical pulling devices. Town of Cedar Lake shall be notified when the system (or portion thereof) is ready for testing.



FLAG POLE FOUNDATION
NOT TO SCALE

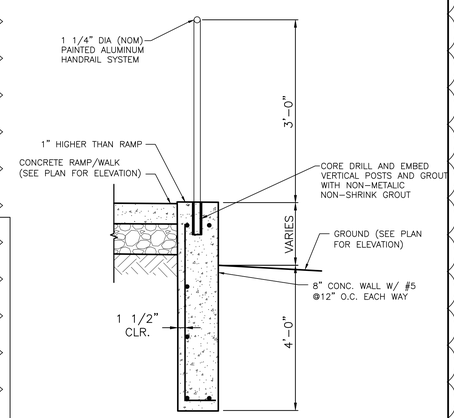


(DOWN SPOUT)
ROOF DRAIN PIPE CONNECTION
NOT TO SCALE



CLEAN-OUT
NOT TO SCALE

AD-3



RAMP/CONCRETE RETAINING WALL AND HAND RAILING DETAIL
NOT TO SCALE

CEDAR LAKE
DEVELOPMENT STANDARDS MANUAL

PAVEMENT DETAILS		
ASPHALT PAVEMENT REPAIR		
SCALE: NONE	DATE: APRIL 2007	DWG. NO. ST-7

CEDAR LAKE
DEVELOPMENT STANDARDS MANUAL

CURB,SIDEWALK & RAMP DETAILS		
CONCRETE SIDEWALK		
SCALE: NONE	DATE: APRIL 2007	DWG. NO. CS-7

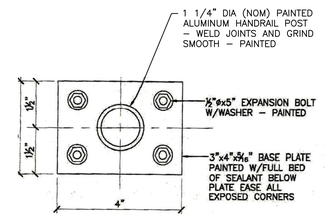
FOR SECTION A-A, ALSO SEE DWG. NO. CS-14

CEDAR LAKE
DEVELOPMENT STANDARDS MANUAL

CURB,SIDEWALK & RAMP DETAILS		
CURB RAMP, TYPE "A"		
SCALE: NONE	DATE: APRIL 2007	DWG. NO. CS-8

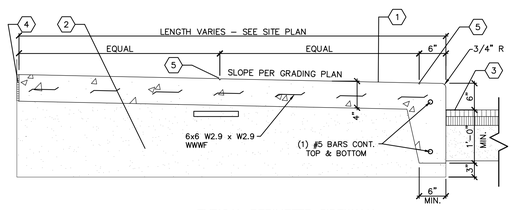
CEDAR LAKE
DEVELOPMENT STANDARDS MANUAL

CURB,SIDEWALK & RAMP DETAILS		
CURB RAMP DETAILS		
SCALE: NONE	DATE: APRIL 2007	DWG. NO. CS-14



HAND RAIL POST
CONNECTION TO BRICK WALL
NOT TO SCALE

AD-3



KEYED NOTES

1. 4" THICK CONC. BROOM FINISH WITH 6X6 W2.9XW2.9 WWWF
2. 6" COMPACTED GRANULAR FILL
3. PROPOSED PAVEMENT
4. COMPRESSIBLE FILLER (3/4" MAXIMUM). CUT BACK AND PROVIDE SEALANT, TYPICAL, AT ALL JOINTS WITH FILLER. (BUTTING BUILDING ONLY)
5. 1/4" TOOLED JOINT (SEE TYPICAL SIDEWALK DETAIL)

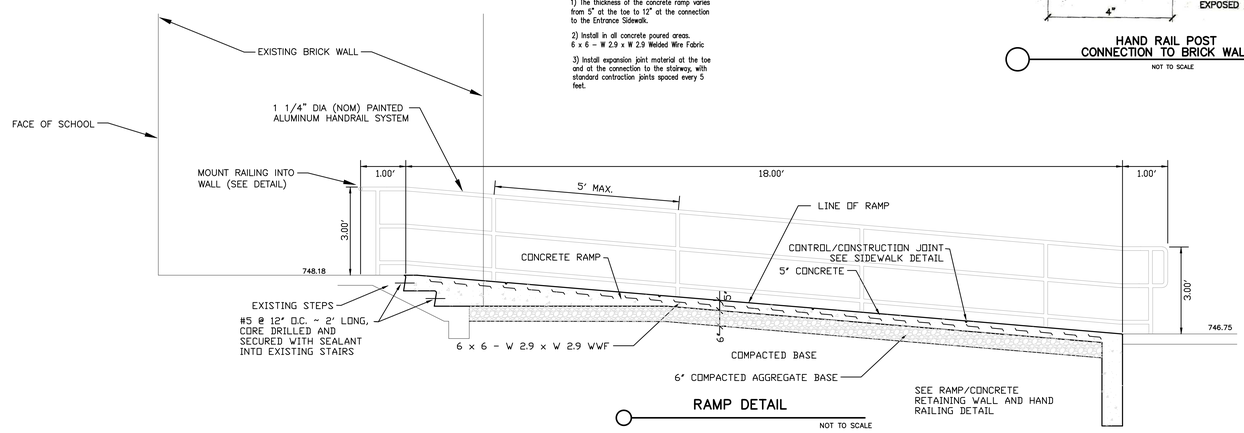
TYPICAL PERIMETER SIDEWALK
NOT TO SCALE

NOTES:

1) The thickness of the concrete ramp varies from 5" at the toe to 12" at the connection to the Entrance Sidewalk.

2) Install in all concrete poured areas. 6 x 6 – W 2.9 x W 2.9 Welded Wire Fabric

3) Install expansion joint material at the toe and at the connection to the stairway, with standard contraction joints spaced every 5 feet.



RAMP DETAIL
NOT TO SCALE

GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

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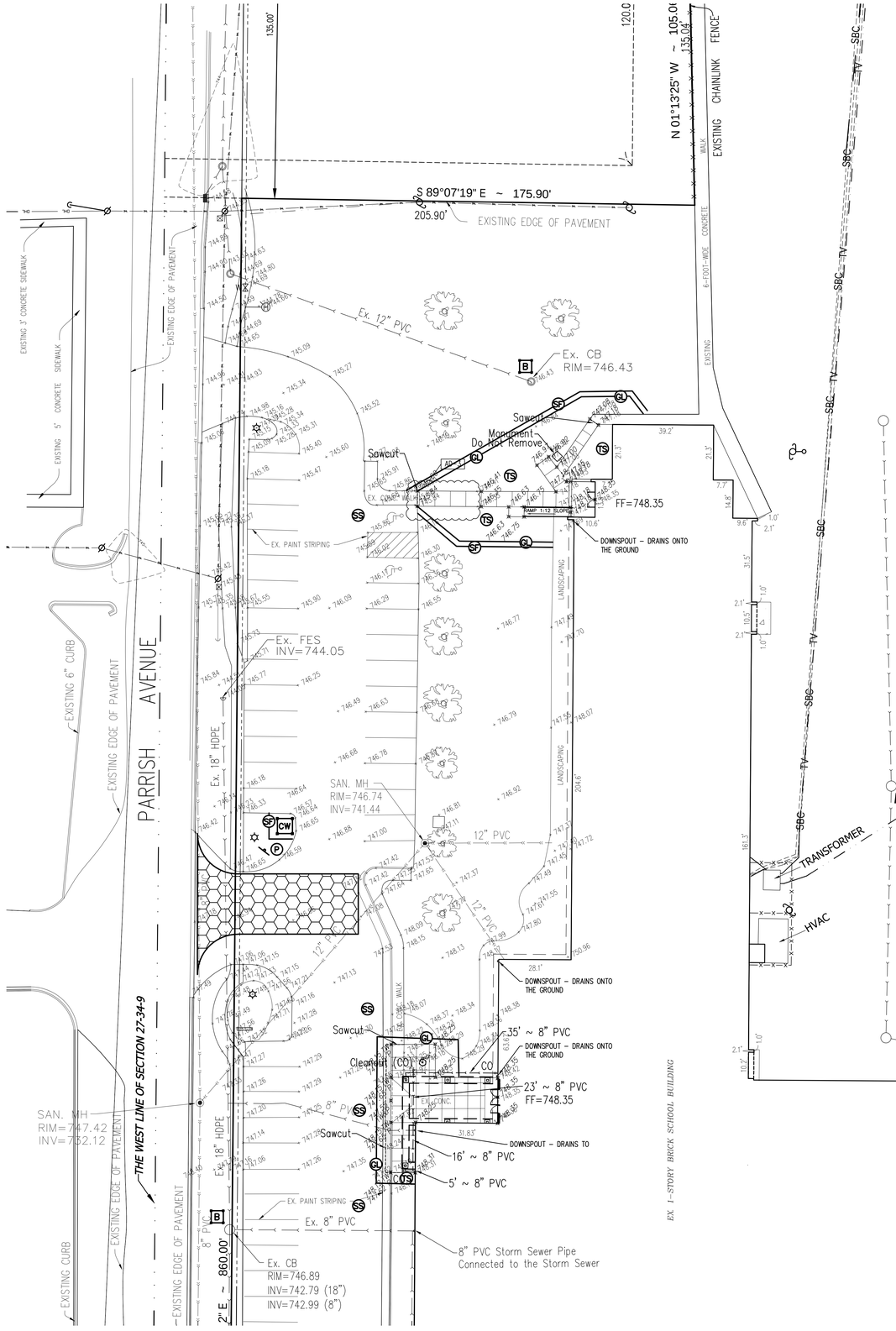
DRAWING
DETAILS & SPECIFICATIONS

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
C-4.0



Temporary stabilization plans and sequence of implementation.

a. On site posting of the Town Permit. Location of the posting and plans shall be made available by the owners contractor.
b. Installation of all erosion/sedimentation controls including stabilized construction entrance, silt fences, etc. per the engineering plans.
c. Clearing and grubbing
d. Rough cut and fill of major grading per the engineering plans shall be done to rough grades at the start of construction to prevent excessive soil erosion due to construction.
e. Implementation of storm sewer inlet protection at each open-grate structure (basket insert inlet protection, as per engineering plans).
f. Construct the concrete washout facility in the location shown in accordance with the detail on Storm Water Pollution Prevention Plan Detail & Specifications sheet.
g. Construct canopy and sidewalks.
h. Upon site completion when no additional disturbance is anticipated stockpile shall be respread, graded, and all disturbed areas shall be permanent seeded, mulched, and landscaped.
i. Complete permanent erosion control and restoration of site vegetation. Erosion control measures are to be removed upon permanent vegetative cover being established. Weekly inspections and inspections after a 0.5-inch rainfall event shall be required by owner.

GENERAL NOTES:

1. THIS PROPERTY IS LOCATED IN FLOOD ZONE X (AREAS DETERMINED TO BE OUTSIDE 0.2% ANNUAL CHANCE FLOODPLAIN). THERE ARE NO FLOODWAYS AND FLOODWAY FRINGES ON THIS PROPERTY, AS TAKEN FROM FEMA FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF CEDAR LAKE, LAKE COUNTY, INDIANA, MAP NUMBER 18089C0239E, EFFECTIVE DATE JANUARY 18, 2012.

2. HYDROLOGIC UNIT CODES: 07120001130060 LAKE DALECARLIA – CEDAR LAKE

3. STATE OR FEDERAL WATER QUALITY PERMITS ARE NOT REQUIRED FOR THE PROJECT, AN IDEM CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP) IS NOT REQUIRED.

4. AT PRESENT, THE SITE IS A SCHOOL PROPERTY CONSISTING OF AN EXISTING BUILDING WITH SURROUNDING PARKING LOT AND LANDSCAPING INCLUDING GRASSES, BUSHES, AND GRAVEL.

5. THERE IS NO PRESENCE OF HYDRIC SOILS ON THIS PROPERTY.

6. THERE ARE NO EXISTING WETLAND AREAS ON THIS PROPERTY AND DO NOT EXIST ON ADJACENT PROPERTY AS CLASSIFIED BY THE U.S. FISH AND WILDLIFE SERVICE, NATIONAL WETLANDS INVENTORY, AND THE UNITED STATES DEPARTMENT OF THE INTERIOR. THERE ARE NO LAKES OR WATER COURSES ON THIS PROPERTY AND ON ADJACENT PROPERTY. CEDAR LAKE IS THE WATER COURSE WHICH THE STORMWATER FROM THE PROPOSED SITE WILL ULTIMATELY DISCHARGE INTO, AND IT IS LOCATED APPROXIMATELY 0.5 MILES EAST OF THE PROJECT SITE, AND IS CLASSIFIED AS A WATER OF THE U.S., WITH A NWL = 693±.

7. POTENTIAL SOURCE OF STORM WATER DISCHARGE ENTERING THE GROUNDWATER FROM THIS DEVELOPMENT WILL BE THROUGH NATURAL GROUND ABSORPTION ONLY. THERE ARE NO ABANDONED WELLS OR SINKHOLES ON THE PROPERTY.

8. THERE ARE NO SENSITIVE AREAS ASSOCIATED WITH THIS PROPERTY.

9. THERE ARE NO REGULATED DRAINS WITHIN THIS PROPERTY, OR ON ADJACENT PROPERTIES. THERE IS NO RECORD OR KNOWLEDGE OF EXISTING FARM DRAINS OR FIELD TILE, INLETS AND OUTFALLS LOCATED WITHIN THE EXISTING PROPERTY LIMITS.

10. SOIL STOCKPILES, BORROW AND DISPOSAL AREAS ARE NOT EXPECTED FOR THIS PROJECT. SOIL STOCKPILES SHALL BE SURROUNDED WITH SILT FENCING AT ALL TIMES TO PREVENT EXCESSIVE EROSION, AND IF LEFT UNDISTURBED FOR A PERIOD OF MORE THAN 7 DAYS, IT SHALL BE STABILIZED WITHIN 14 DAYS. UPON SITE COMPLETION THE TOPSOIL STOCKPILE SHALL BE RESPREAD, GRADED, AND PERMANENTLY SEEDED.

11. AREAS WHERE THE PROPOSED SIDEWALK AND CANOPY ARE LOCATED WILL BE DISTURBED DURING CONSTRUCTION. IN ALL OTHER AREAS, EXISTING VEGETATIVE COVER WILL BE PRESERVED.

12. FUEL STORAGE AREA IF REQUIRED SHALL BE WITHIN THE CONSTRUCTION STAGING AREA, FUEL SHALL BE STORED IN APPROVED MOBILE REFUELING TANK LOCATED AWAY FROM DRAINAGE STRUCTURES AND CHANNELS. FIRE EXTINGUISHERS SHALL BE LOCATED NEAR FUEL STORAGE AREA AND BE OF SUITABLE TYPE, POSTED, AND BE MAINTAINED IN GOOD CONDITION.

13. TEMPORARY SEED ALL AREAS OF BARE SOIL (WITH THE ADDITION OF A BLANKET WHERE SLOPES ARE 4:1 OR GREATER) THAT WILL REMAIN UNDISTURBED FOR A PERIOD OF MORE THAN 14 DAYS. SEEDING: OPTIMUM SEEDING DATED ARE MARCH 1 – MAY 10 AND AUGUST 10 – SEPTEMBER 30. SEEDING DATES BETWEEN MAY 10 AND AUGUST 10, MAY NEED TO BE IRRIGATED. FOR SEEDING RECOMMENDATIONS SEE PRACTICE 3.12, INDIANA STORM WATER QUALITY MANUAL.

14. ALL SOIL STOCKPILES, AREAS THAT ARE DISTURBED DURING CONSTRUCTION, AND DRAINAGE SWALES WHICH ARE SCHEDULED OR LIKELY TO BE LEFT INACTIVE FOR SEVEN (7) CALENDAR DAYS OR MORE MUST BE STABILIZED WITHIN 14 DAYS. TEMPORARILY OR PERMANENTLY SEEDED WITH MEASURES APPROPRIATE FOR THE SEASON.

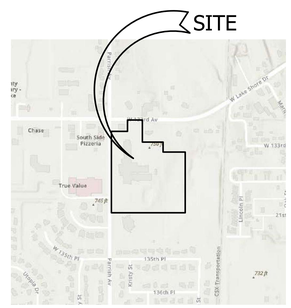
15. LOCATION OF ON-SITE POSTING, OF THE LOCAL STORMWATER PERMIT AND LOCATION OF THE COMPLETE SET OF ENGINEERING PLANS, SHALL BE AVAILABLE AT THE ENTRANCE TO THE SITE AND VISIBLE TO THE PUBLIC.

16. ALL APPLICABLE MATERIAL SAFETY DATA SHEETS (MSDS) SHOULD BE INCLUDED ON-SITE FOR MATERIALS EXPECTED POLLUTANTS OF CONCERN FOR THE PROJECT SITE.

17. DURING CONSTRUCTION WHERE CONCENTRATED RUNOFF MAY OCCUR AND SILT FENCE IS NOT SUFFICIENT TO PROVIDE CONTROL OF SEDIMENT, ADDITIONAL MEASURES OF PROTECTION SHALL BE IMPLEMENTED (FILTER SOCKS). THE SILT FENCE BOUNDARY SHALL BE MONITORED DURING CONSTRUCTION TO EVALUATE IF THE SEDIMENT CONTROL MEASURE IS APPROPRIATE AND FUNCTIONING CORRECTLY.

18. SITE ELEVATIONS ARE BASED ON NAVD 88, AND HORIZONTAL DATUM IS BASED ON INDIANA STATE PLANE COORDINATES NAD 83.

VICINITY MAP
NOT TO SCALE



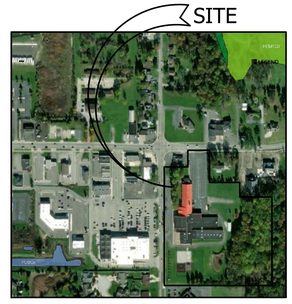
SOIL MAP
NOT TO SCALE

SOIL TYPE LEGEND
EI – Elliot Silt Loam, 0 to 2 percent slopes

SWPPP LEGEND:

- TEMPORARY ENTRANCE/EXIT (GRAVEL OR MAT)
- B – BASKET INSERT INLET PROTECTION
- GL – GRADE LIMITS
- SF – SILT FENCE (SEDIMENT FENCE)
- CW – CONCRETE WASH OUT AREA
- P – POSTING CSGP NOI & NOS LETTERS AND LOCAL SWPPP PERMIT
- TS – TEMPORARY SEEDING
- XXX – CONTOUR (PROPOSED)
- XXXX – GRADES (PROPOSED)
- SS – STREET SWEEPING

WETLAND MAP
NOT TO SCALE



NORTH
GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

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MARK	DATE	ISSUED FOR
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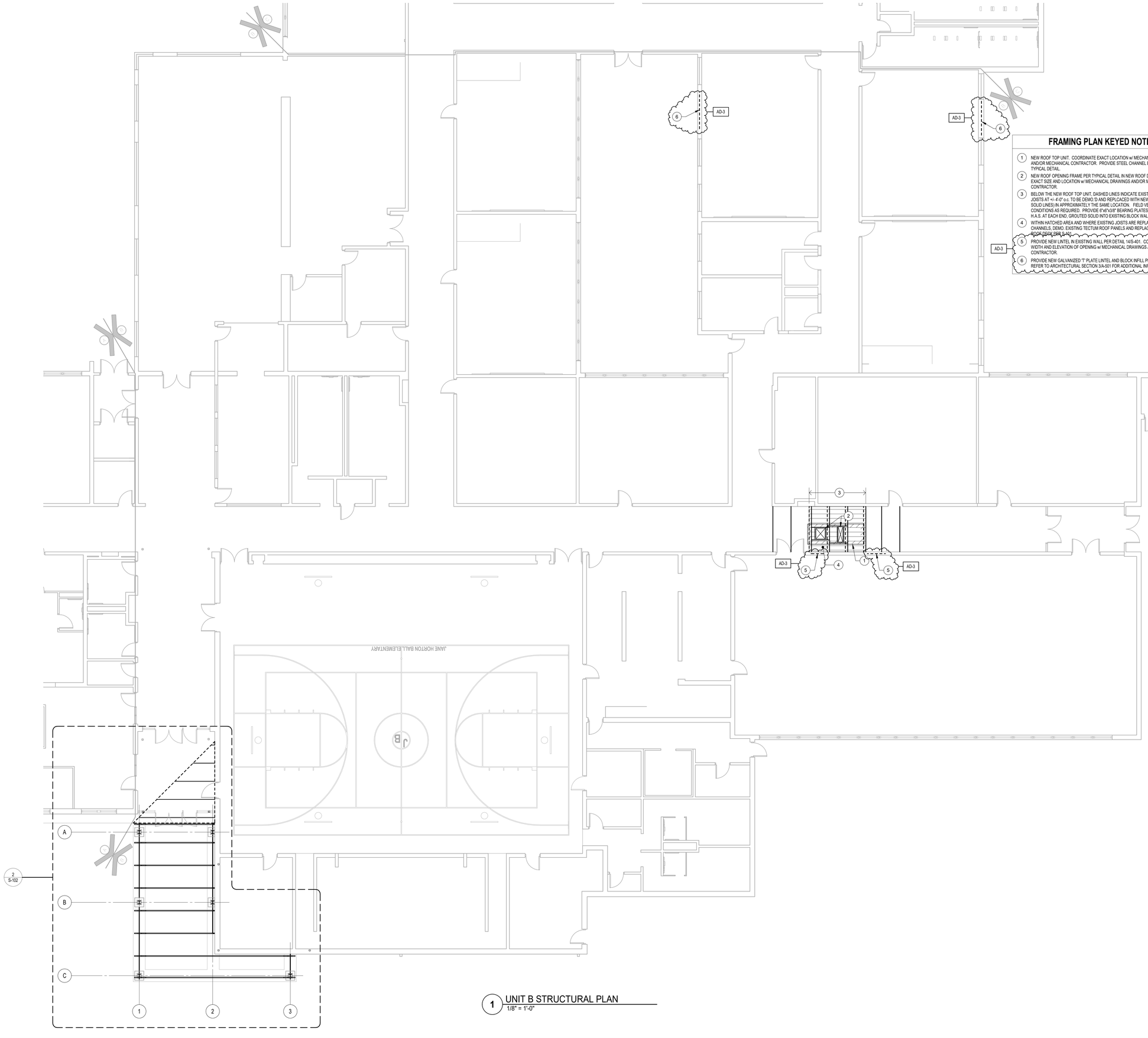
AD-3	11/03/23	ADDENDUM NO. 3

DRAWING
STORM WATER POLLUTION PREVENTION PLAN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
C-5.0



FRAMING PLAN KEYED NOTES

1. NEW ROOF TOP UNIT. COORDINATE EXACT LOCATION w/ MECHANICAL DRAWINGS AND/OR MECHANICAL CONTRACTOR. PROVIDE STEEL CHANNEL BELOW CURB PER TYPICAL DETAIL.
2. NEW ROOF OPENING FRAME PER TYPICAL DETAIL IN NEW ROOF DECK. COORDINATE EXACT SIZE AND LOCATION w/ MECHANICAL DRAWINGS AND/OR MECHANICAL CONTRACTOR.
3. BELOW THE NEW ROOF TOP UNIT, DASHED LINES INDICATE EXISTING 8" DEEP BAR JOISTS AT +/- 4'-0" o.c. TO BE DEMO.'D AND REPLACED WITH NEW C6x8.2 (INDICATED BY SOLID LINES) IN APPROXIMATELY THE SAME LOCATION. FIELD VERIFY ALL EXISTING CONDITIONS AS REQUIRED. PROVIDE 6"x6"x3/8" BEARING PLATES w/ 1/2" DIA. x 4" LONG H.A.S. AT EACH END. GROUTED SOLID INTO EXISTING BLOCK WALLS.
4. WITHIN HATCHED AREA AND WHERE EXISTING JOISTS ARE REPLACED WITH NEW CHANNELS, DEMO. EXISTING TECTUM ROOF PANELS AND REPLACE w/ NEW 1 1/2" STEEL ROOF DECK PER S-401.
5. PROVIDE NEW LINTEL IN EXISTING WALL PER DETAIL 14/S-401. COORDINATE EXACT WIDTH AND ELEVATION OF OPENING w/ MECHANICAL DRAWINGS AND/OR MECHANICAL CONTRACTOR.
6. PROVIDE NEW GALVANIZED 'T' PLATE LINTEL AND BLOCK INFILL PER DETAIL 15/S-401. REFER TO ARCHITECTURAL SECTION 3/A-501 FOR ADDITIONAL INFORMATION.

1 UNIT B STRUCTURAL PLAN
1/8" = 1'-0"

GIBRALTAR
DESIGN
ARCHITECTURE · ENGINEERING · INTERIOR DESIGN

LHB

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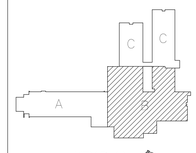
HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA



KEY PLAN

GIBRALTAR DESIGN
9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
Homepage: www.GibraltarDesign.com
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Phone 317.580.5777 Fax 317.580.5778

PROJECT
23-140
DATE
10/13/23
COORDINATED BY
SAC
DRAWN BY
SAC
CHECKED BY
SAC

SCOTT A. CLOSE
REGISTERED
PE10606154
STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-3	11/03/2023	ADDENDUM #3

DRAWING
UNIT B STRUCTURAL PLAN

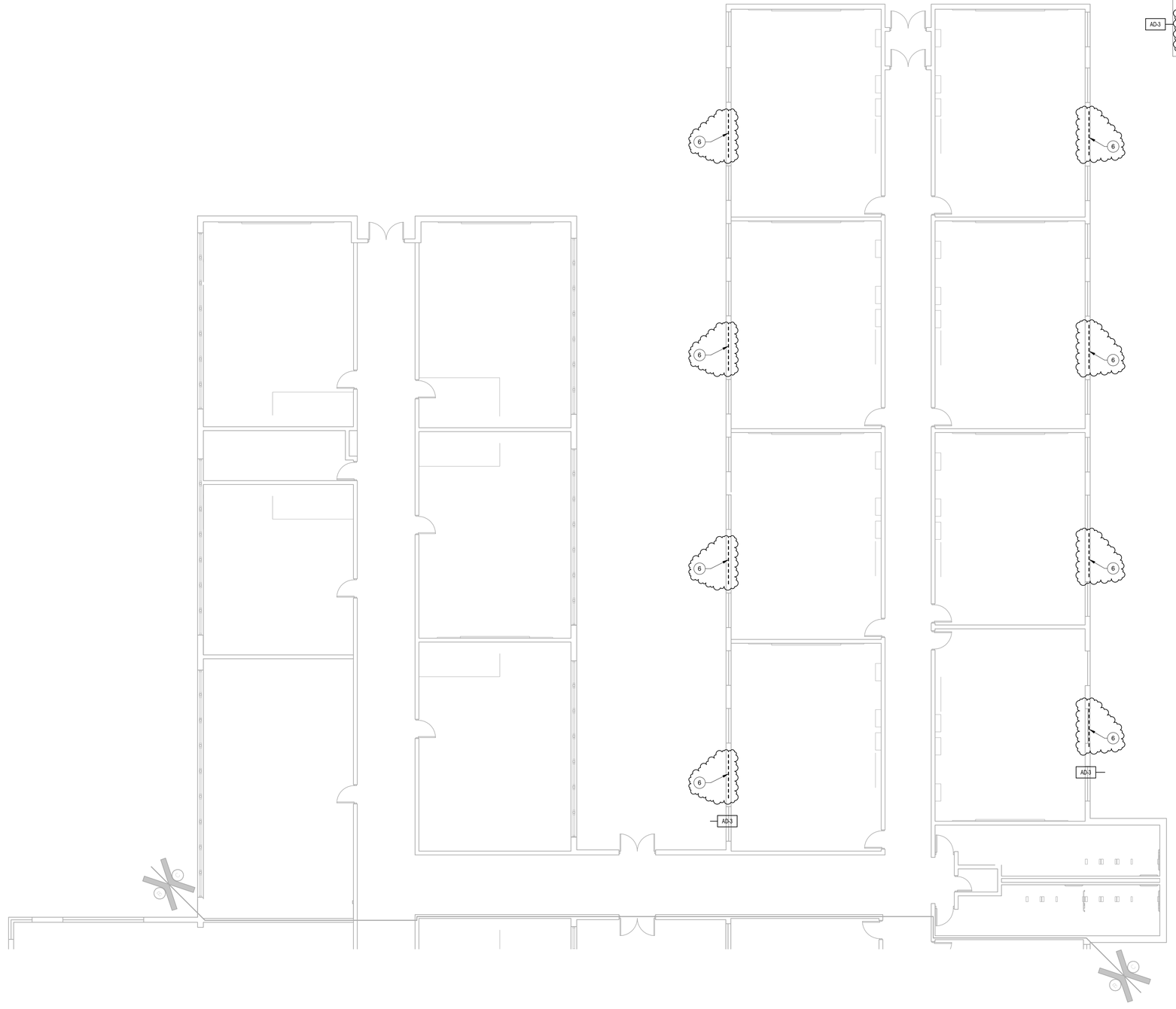
PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
JB | S-100

FRAMING PLAN KEYED NOTES

1. NEW ROOF TOP UNIT. COORDINATE EXACT LOCATION w/ MECHANICAL DRAWINGS AND/OR MECHANICAL CONTRACTOR. PROVIDE STEEL CHANNEL BELOW CURB PER TYPICAL DETAIL.
2. NEW ROOF OPENING FRAME PER TYPICAL DETAIL IN NEW ROOF DECK. COORDINATE EXACT SIZE AND LOCATION w/ MECHANICAL DRAWINGS AND/OR MECHANICAL CONTRACTOR.
3. BELOW THE NEW ROOF TOP UNIT, DASHED LINES INDICATE EXISTING 8" DEEP BAR JOISTS AT +/- 4'-0" o.c. TO BE DEMO.'D AND REPLACED WITH NEW C8x8.2 (INDICATED BY SOLID LINES) IN APPROXIMATELY THE SAME LOCATION. . FIELD VERIFY ALL EXISTING CONDITIONS AS REQUIRED. PROVIDE 6"x6"x3/8" BEARING PLATES w/ 1/2" DIA. x 4" LONG H.A.S. AT EACH END, GROUTED SOLID INTO EXISTING BLOCK WALLS.
4. WITHIN HATCHED AREA AND WHERE EXISTING JOISTS ARE REPLACED WITH NEW CHANNELS, DEMO. EXISTING TECTUM ROOF PANELS AND REPLACE w/ NEW 1 1/2" STEEL ROOF DECK, TYP.
5. PROVIDE NEW LINTEL IN EXISTING WALL PER DETAIL 14/S-401. COORDINATE EXACT WIDTH AND ELEVATION OF OPENING w/ MECHANICAL DRAWINGS AND/OR MECHANICAL CONTRACTOR.
6. PROVIDE NEW GALVANIZED "I" PLATE LINTEL AND BLOCK INFILL PER DETAIL 15/S-401. REFER TO ARCHITECTURAL SECTION 3/A-501 FOR ADDITIONAL INFORMATION.

AD-3



1 UNIT C STRUCTURAL PLAN
1/8" = 1'-0"

GIBRALTAR DESIGN
ARCHITECTURE · ENGINEERING · INTERIOR DESIGN

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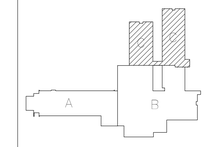
HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA



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GIBRALTAR DESIGN
9102 N. Meridian St., Ste. 300
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PROJECT
23-140
DATE
10/13/23
COORDINATED BY
Designer
DRAWN BY
Author
CHECKED BY
Checker

SCOTT A. CLORE
REGISTERED
STATE OF INDIANA
PE10606154
PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-3	11/03/2023	ADDENDUM #3

DRAWING
UNIT C STRUCTURAL PLAN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

AD-3
(NEW SHEET)

SHEET
JB S-101

FRAMING PLAN KEYED NOTES

1. MONO-SLOPE PREFABRICATED COLD-FORMED TRUSSES AT 5'-0" o.c. MAX.
2. GABLE SHAPED PREFABRICATED COLD-FORMED TRUSSES AT 5'-0" o.c. MAX.
3. CANTILEVER BEAM OVER COLUMN TO CARRY LAST MONO-SLOPE TRUSS. COORD. REQUIRED LENGTH WITH COLD-FORMED TRUSS SUPPLIER.
4. PROVIDE COLD-FORMED VALLEY TRUSSES AT 4'-0" o.c. MAX, AS OVERBUILD ON EXISTING ROOF. DEMOLISH EXISTING ROOFING AND INSULATION AS REQUIRED IN ORDER TO FASTEN NEW TRUSSES DIRECTLY TO EXISTING ROOF DECK. PATCH AND REPAIR AS REQUIRED.

AD-3

FRAMING PLAN NOTES

1. REF. S001 FOR STRUCTURAL NOTES, DESIGN DATA, SCHEDULES & LEGENDS.
2. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
3. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FIN. FLOOR ELEVATION +0'-0". COORD. USGS ELEVATION WITH CIVIL DWGS.
4. SEE FOUNDATION PLANS FOR SIZES OF STEEL COLUMNS SUPPORTED ON FOUNDATIONS.
5. ALL WALLS SHALL BE LAID OUT FROM THE ARCHITECTURAL DRAWINGS.
6. REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
7. COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICAL OPENINGS ROOF DECK WITH THE MEP CONTRACTOR(S). LOCATION & SIZE OF ALL DUCT OPENINGS, GRILLES, ETC. SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
8. ALL ELEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL BEAM UNLESS NOTED OTHERWISE.
9. PROVIDE FRAMES AT ALL ROOF DRAINS, ROOF HATCHES & OTHER ROOF OPENINGS PER TYPICAL DETAILS ON S401. COORD. EXACT NUMBER, LOCATIONS & DIMENSIONS WITH THE APPROPRIATE CONTRACTORS & THE ARCH. & MEP DWGS.

PLAN LEGEND:

F.F. DENOTES FIN. FLOOR

T/'X' DENOTES TOP OF STEEL, SLAB, ETC.

R1.5 DENOTES 1½", 20 GA. GALV. & PRIME-PAINTED WIDE RIB STEEL ROOF DECK.

CONCRETE PIER SCHEDULE

PIER MARK	PIER SIZE		PIER REINFORCING			
			VERTICALS	TIES-SIZE & SPA.[3]	DETAIL	CRITICAL HEIGHT
P24	2'-0"	2'-0"	(8) #6	#4 @ 4" o.c.	B	≤ 2' - 8"
			(4) #8	#4 @ 4" o.c.	A	> 2' - 8"

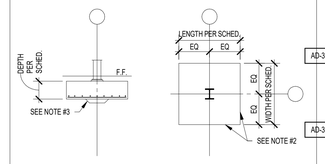
NOTES:
1. PROVIDE MIN. 1 ½" CLEAR TO PIER TIES.
2. 'CRITICAL HEIGHT' DENOTES THE HEIGHT ABOVE WHICH LARGER DIAMETER VERTICALS WITH FEWER TIES MAY BE USED. REF. FOUNDATION PLAN(S) FOR TOP OF PIER & FOOTING ELEV'S.
3. REF. 'TYPICAL CONCRETE PIER REINFORCING' ON FOUNDATION DETAIL SHEET FOR FURTHER INFORMATION ON TIE SPACING.
4. VERTICAL DOWELS ARE TO FUNCTION AS PIER VERTICALS FOR PIERS LESS THAN OR EQUAL TO 5' - 0" HIGH. PROVIDE SEPARATE DOWELS & VERTICALS FOR PIERS GREATER THAN OR EQUAL TO 5' - 0" HIGH, UNLESS APPROVED.
5. CONTACT THE STRUCTURAL ENGINEER FOR DIRECTION IF COLUMN ANCHOR RODS FOUL WITH PIER TIES OR VERTICALS.

DETAIL "A" (1) SET

DETAIL "B" (3) SETS

COLUMN FOOTING SCHEDULE

NOTES:
1. CENTER FOOTINGS BENEATH COLUMNS, U.N.O.
2. ALL FOOTINGS MUST BE BOARD-FORMED, UNLESS APPROVED.
3. INCREASE FOOTING DEPTH WHERE REQ'D TO ENCASE COLUMN ANCHOR RODS



FOOTING MARK	LENGTH	WIDTH	DEPTH	REINFORCING EACH WAY
F4.0	4' - 0"	4' - 0"	1' - 4"	(5) #5 x 3'-6"
F4x2	2' - 0"	4' - 0"	1' - 0"	(3) #5 x 3'-6", (5) #5 x 2'-3"

FOUNDATION PLAN NOTES

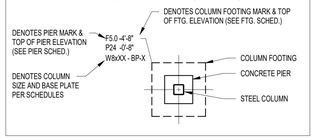
1. REF. S001 FOR STRUCTURAL NOTES, DESIGN DATA & SCHEDULES.
2. ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR WORK WITH ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELECTRICAL, AND PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DRAWINGS. THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NOT BE INDICATED.
3. ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOR FINISH FLOOR ELEVATION 0'-0". REFER TO THE SITE / CIVIL DWGS. FOR EXACT U.S.G.S. ELEVATION.
4. REF. ARCH. DRAWINGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
5. REFER TO SHEET S102 FOR TYPICAL FOUNDATION DETAILS.
6. PERIMETER COLUMN FOOTINGS SHALL BE LOWERED AND/OR SLEEVED TO PASS BELOW PLUMBING LINES (I.E. SANITARY & STORM SEWERS, WATER LINES, ETC.) SHOWN ON THE PLUMBING DRAWINGS. PROVIDE FOOTING STEPS AS REQUIRED PER THE TYPICAL DETAILS ON S102.
7. COORDINATE REINFORCING DOWELS FOR CMU VERTICAL REINFORCING WITH REINF. NOTED ON PLANS & SECTIONS.
8. GROUT ALL CORES OF CMU BELOW FINISH FLOOR SOLID.
9. COLUMN FOOTINGS, TRENCH FOOTINGS AND WALL FOOTINGS SHALL BEAR ON APPROVED SOIL. UNDERCUT AS REQ'D TO SUITABLE BEARING MATERIAL AS DETERMINED BY THE GEOTECHNICAL TESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DETAILS ON SHEET S102.
10. ALL EX. CONSTRUCTION SHOWN IN PLAN AND/OR SECTION WAS DERIVED FROM EXISTING DRAWINGS AND MUST BE FIELD VERIFIED. IF ANY DISCREPANCIES ARE DISCOVERED BETWEEN INFO. SHOWN ON THE DRAWINGS AND ACTUAL CONDITIONS IMMEDIATELY CONTACT ARCHITECT/ENGINEER FOR DIRECTION BEFORE PROCEEDING WITH THE WORK.

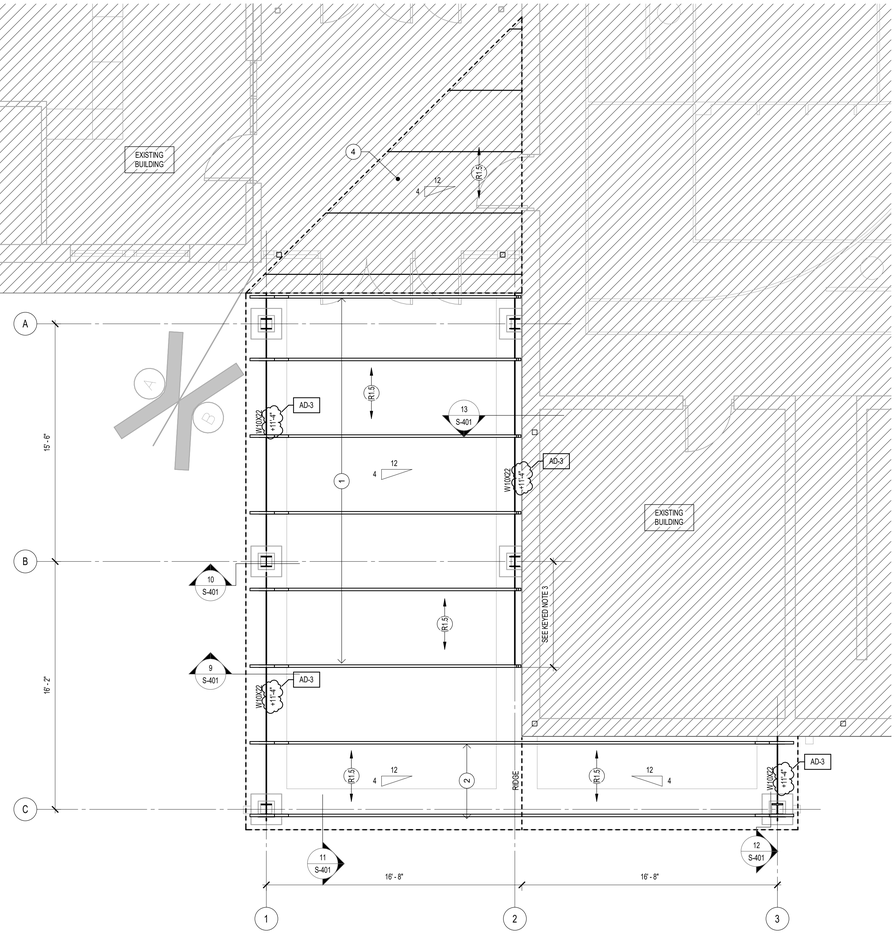
PLAN LEGEND:

F.F. DENOTES FINISH FLOOR

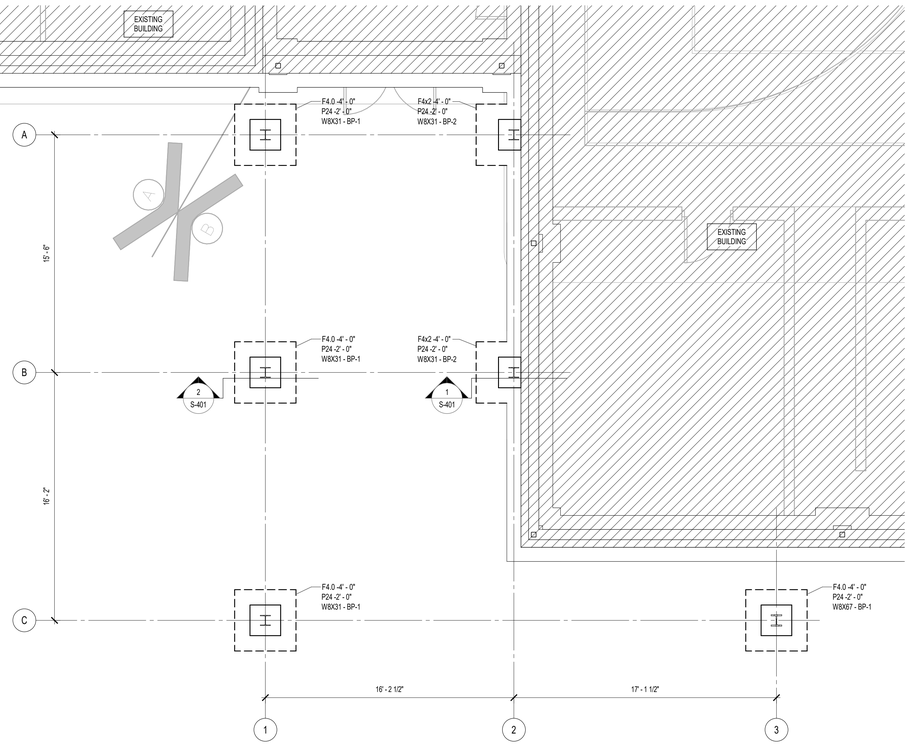
T/'X' DENOTES TOP OF FTG., GRADE BEAM, SLAB, PIER, ETC.

B/'X' DENOTES BOTTOM OF FTG., GRADE BEAM, ETC.





2 NEW CANOPY FRAMING PLAN
1/4" = 1'-0"



1 FOUNDATION PLAN
1/4" = 1'-0"

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PROJECT:
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

KEY PLAN

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PROJECT 23-140
DATE 10/13/23
COORDINATED BY SAC
DRAWN BY SAC
CHECKED BY SAC

SCOTT A. CLOSE REGISTERED PE10606154 STATE OF INDIANA PROFESSIONAL ENGINEER

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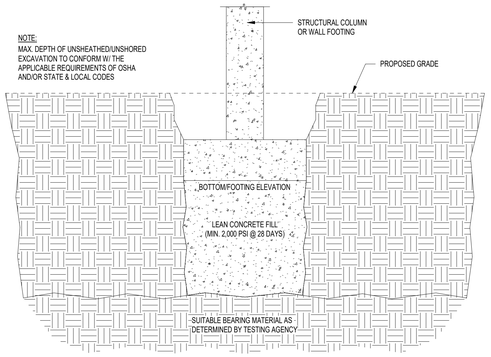
DRAWING
NEW CANOPY STRUCTURAL PLANS

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

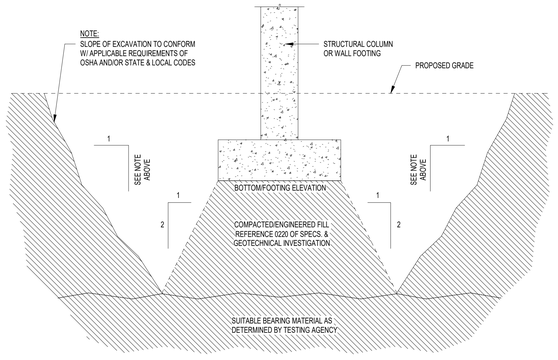
AD-3 (SHEET NO. REVISED)

SHEET JB S-102



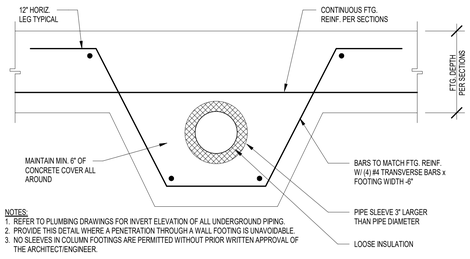
1. REFER TO THE SPECIFICATIONS FOR APPLICATION OF UNIT COSTS FOR REMOVAL OF UNSUITABLE BEARING MATERIAL & REPLACEMENT W/ LEAN CONCRETE FILL.
2. REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR ADDITIONAL INFORMATION RE: EXPECTED SOIL CONDITIONS, SUITABILITY OF EX. SOILS FOR USE AS ENGINEERED FILL, GROUNDWATER CONDITIONS, ETC.

8 OVEREXCAVATION DETAIL - LEAN CONCRETE FILL
3/4" = 1'-0"



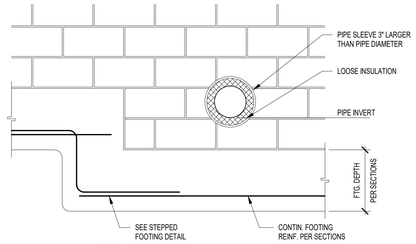
1. REFER TO THE SPECIFICATIONS FOR APPLICATION OF UNIT COSTS FOR REMOVAL OF UNSUITABLE BEARING MATERIAL & REPLACEMENT W/ COMPACTED, ENGINEERED FILL
2. REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR ADDITIONAL INFORMATION RE: EXPECTED SOIL CONDITIONS, SUITABILITY OF EX. SOILS FOR USE AS ENGINEERED FILL, GROUNDWATER CONDITIONS, ETC.

7 OVEREXCAVATION DETAIL - COMPACTED FILL
3/4" = 1'-0"



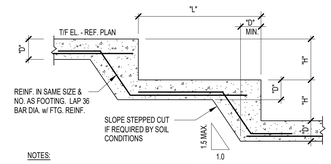
NOTES:
1. REFER TO PLUMBING DRAWINGS FOR INVERT ELEVATION OF ALL UNDERGROUND PIPING.
2. PROVIDE THIS DETAIL WHERE A PENETRATION THROUGH A WALL FOOTING IS UNAVOIDABLE.
3. NO SLEEVES IN COLUMN FOOTINGS ARE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.

6 WALL FOOTING SLEEVE DETAIL
1" = 1'-0"



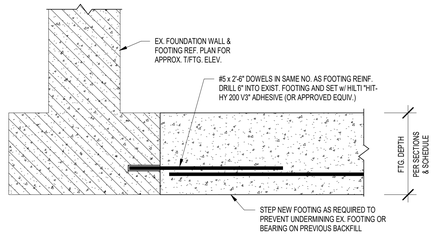
NOTES:
1. REFER TO PLUMBING DRAWINGS FOR INVERT ELEVATION OF ALL UNDERGROUND PIPING.
2. STEP FOOTING FOR PIPE PENETRATION THROUGH FOUNDATION WALL UNLESS WRITTEN PERMISSION IS OBTAINED FROM THE MEP ENGINEER.
3. PROVIDE PRECAST OR BOND BEAM LINTEL FOR MULTIPLE PENETRATIONS OR OPENINGS GREATER THAN 24" IN WIDTH.

5 CMU FOUNDATION WALL SLEEVE
3/4" = 1'-0"

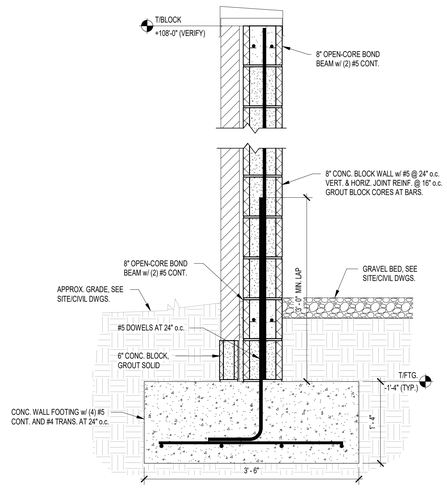


NOTES:
1. "H" DENOTES HEIGHT OF STEP AS SHOWN ON PLAN.
2. "L" DENOTES LENGTH BETWEEN STEPS. LAYOUT TO MAINTAIN SLOPE OF 1 VERTICAL TO 2 HORIZONTAL UNLESS NOTED OTHERWISE.
3. "D" DENOTES FOOTING DEPTH, REFER TO PLANS, SECTIONS & SCHEDULES.

4 STEPPED FOOTING DETAIL
1/2" = 1'-0"



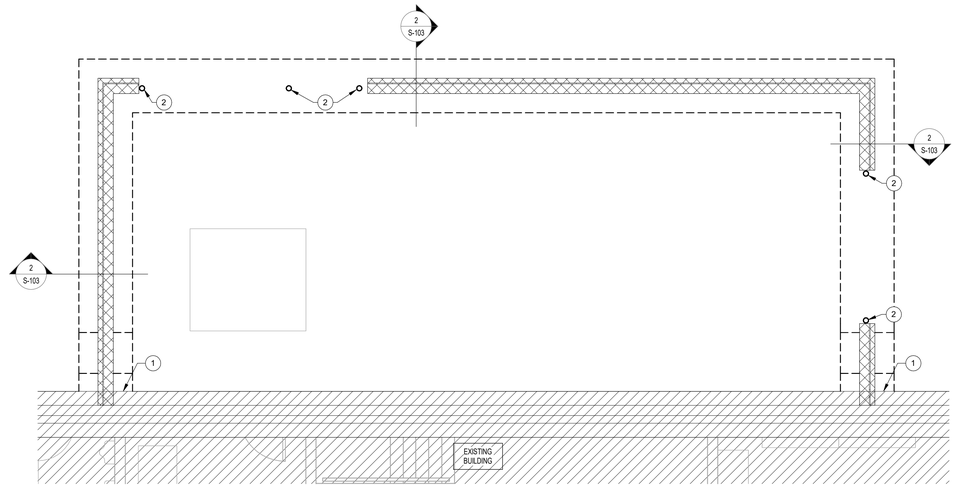
3 NEW-TO-EX. WALL FOOTING DETAIL
1" = 1'-0"



2 STRUCTURAL SECTION
1" = 1'-0"

FRAMING PLAN KEYED NOTES

1. STEP FOOTING AS REQUIRED SUCH THAT NEW FOOTING MATCHINS TOP AND BOTTOM ELEVATION OF EXISTING FOOTING. FIELD VERIFY EXACT DEPTHS AND DIMENSIONS. REFER TO TYPICAL DETAILS THIS SHEET.
2. EXTEND BOTTOM OF FOOTING AS REQ.'D FOR GATE POST EMBEDMENT. REFER TO ARCHITECTURAL DETAIL 4/A-402.

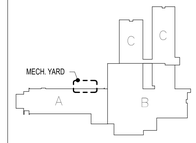


1 FOUNDATION PLAN - MECHANICAL YARD
1/4" = 1'-0"

GIBRALTAR
DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT:
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA



KEY PLAN

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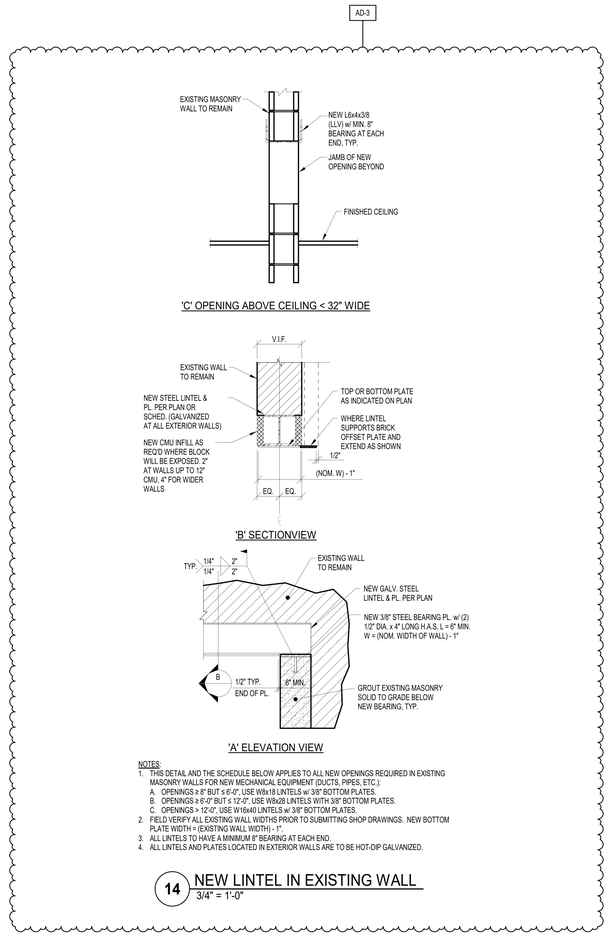
DRAWING
MECHANICAL YARD STRUCTURAL PLAN AND DETAILS

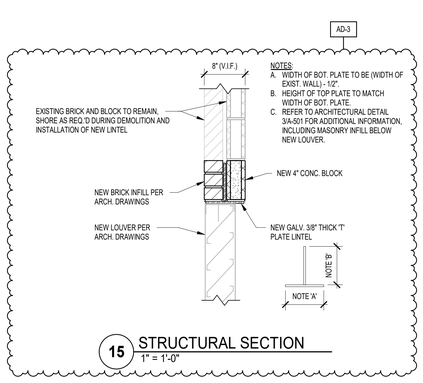
PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

AD-3 (NEW SHEET)

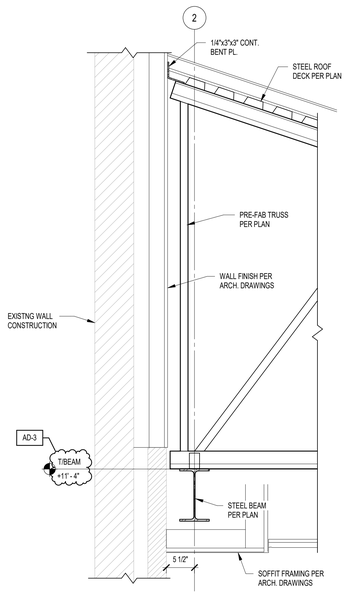
SHEET
JB S-103



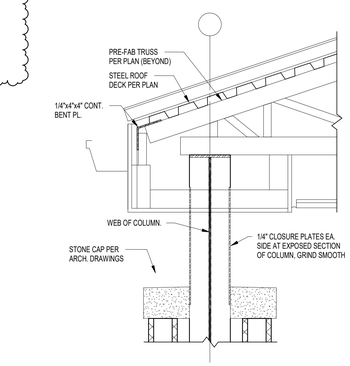
14 NEW LINTEL IN EXISTING WALL
3/4" = 1'-0"



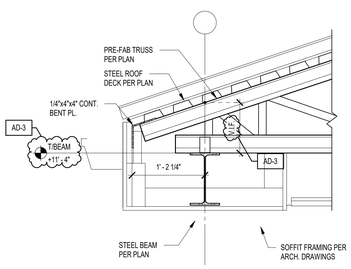
15 STRUCTURAL SECTION
1" = 1'-0"



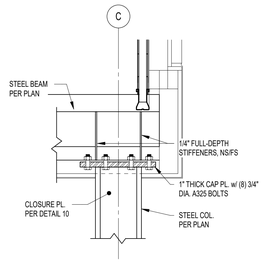
13 FRAMING SECTION
1" = 1'-0"



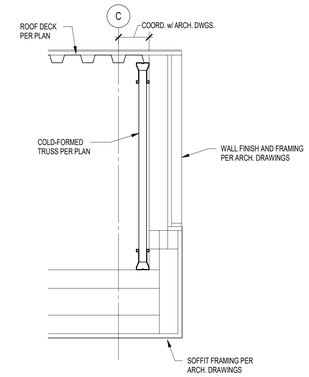
10 FRAMING SECTION
1" = 1'-0"



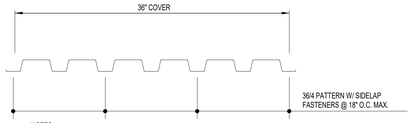
9 FRAMING SECTION
1" = 1'-0"



12 FRAMING SECTION
1" = 1'-0"

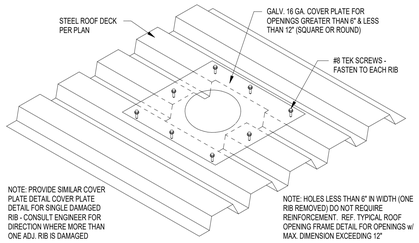


11 FRAMING SECTION
1" = 1'-0"

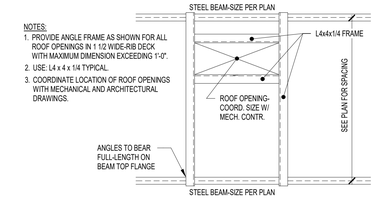


NOTES:
1. 1 1/2", 20 GA. GALVANIZED WIDE RIB STEEL ROOF DECK. CLEAN, TREAT AND PRIME.
2. USE #10 TEK SCREW SIDELAP FASTENERS, U.N.O.
3. MECHANICAL FASTENERS SHALL BE USED IN LIEU OF WELDS. USE THE FOLLOWING HILTI POWER ACTUATED FASTENERS:
   A. X-HSN 24 FOR OPEN-WEB STEEL JOISTS & STRUCTURAL STEEL 1/8" ≤ T ≤ 3/8"
   B. X-ENP-19 L15 FOR HEAVY OPEN-WEB STEEL JOISTS & STRUCTURAL STEEL T ≥ 1/4"
   C. S-SLC 01 M HWH SIDELAP FASTENERS
4. ACCEPTABLE ALTERNATE TO THE FASTENTERS LISTED ABOVE: PNEUTEK AIR/SAFE FASTENING SYSTEM.
5. SUBMIT PROPOSED FASTENERS & TECHNICAL DATA FOR REVIEW.

8 1 1/2" WIDE STEEL ROOF DECK
NOT TO SCALE

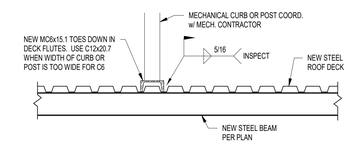


7 SMALL ROOF OPENING DETAIL
NOT TO SCALE

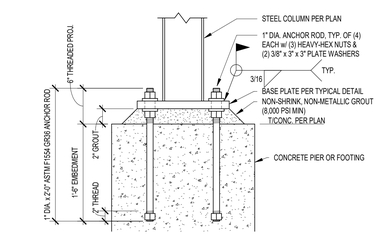


NOTES:
1. PROVIDE ANGLE FRAME AS SHOWN FOR ALL ROOF OPENINGS IN 1 1/2 WIDE-RIB DECK WITH MAXIMUM DIMENSION EXCEEDING 1'-0".
2. USE: L4 x 4 x 1/4 TYPICAL.
3. COORDINATE LOCATION OF ROOF OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.

6 NEW ROOF OPENING FRAME
NOT TO SCALE

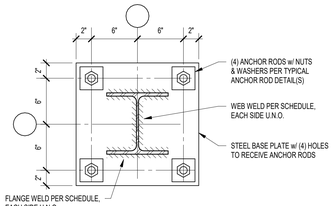


5 ROOF CURB SUPPORT DETAIL
NOT TO SCALE



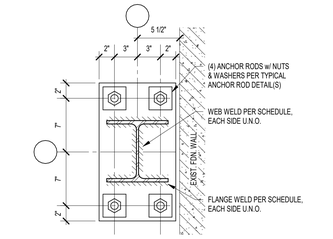
NOTES:
1. LOCATION OF ANCHOR BOLTS MUST NOT VARY MORE THAN 1/8" CENTER-TO-CENTER OF ANY TWO BOLTS WITHIN AN ANCHOR BOLT GROUP.
2. HOLD MAX. DEVIATION OF 1/4". CENTER-TO-CENTER OF ADJACENT ANCHOR BOLT GROUPS.
3. HOLD ELEVATION OF THE TOP OF THE ANCHOR BOLTS TO +/- 1/2 INCH.
4. HOLD MAXIMUM DEVIATION OF 1/4" FROM THE CENTER OF ANY ANCHOR BOLT GROUP TO THE ESTABLISHED COLUMN LINE THROUGH THAT GROUP.
5. REFER TO THE AISC CODE OF STANDARD PRACTICE FOR ADDITIONAL INFORMATION.

4 1" DIA. ANCHOR RODS
NOT TO SCALE



TYP. W8 COLUMN BASE PLATE SCHEDULE

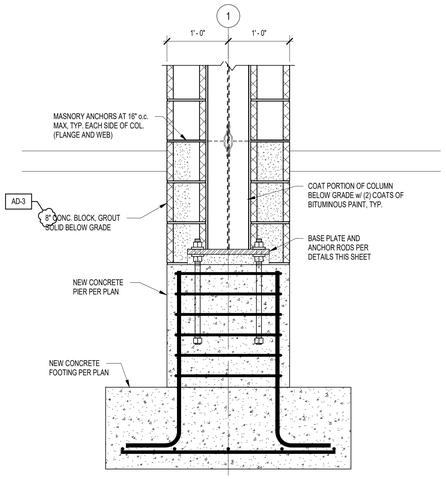
MARK	COLUMN SIZE	BASE PLATE SIZE	ANCHOR ROD DIA.	MAX. HOLE
BP-1	W8x31	1" X 1'-4" X 1'-4" FLANGE WELD = 5/16" WEB WELD = 5/16"	1"	1 3/16"



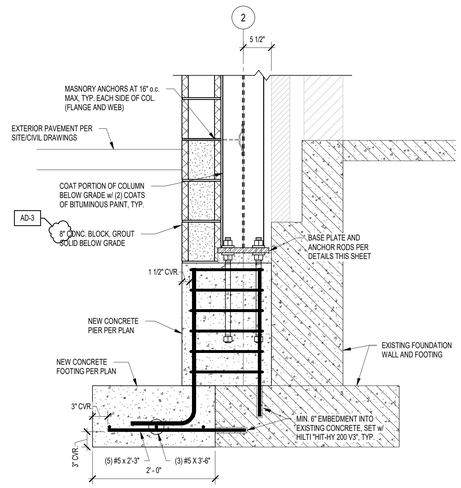
OFFSET W8 COLUMN BASE PLATE SCHEDULE

MARK	COLUMN SIZE	BASE PLATE SIZE	ANCHOR ROD DIA.	MAX. HOLE
BP-2	W8x31	1" X 1'-6" X 0-10" FLANGE WELD = 5/16" WEB WELD = 5/16"	1"	1 3/16"

3 STEEL BASE PLATES
NOT TO SCALE



2 FOUNDATION SECTION
1" = 1'-0"



1 FOUNDATION SECTION
1" = 1'-0"

GIBRALTAR DESIGN
ARCHITECTURE · ENGINEERING · INTERIOR DESIGN

PROJECT:
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

GIBRALTAR DESIGN
9102 N. Meridian St., Ste. 300
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PROJECT 23-140
DATE 10/10/23
COORDINATED BY SAC
DRAWN BY SAC
CHECKED BY SAC

SCOTT A. CLORE — REGISTERED — PE10606154 — STATE OF INDIANA — PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-3	11/03/2023	ADDENDUM #3

DRAWING
STRUCTURAL SECTIONS AND DETAILS

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
JB
S-401

11/3/2023 8:41:13 AM
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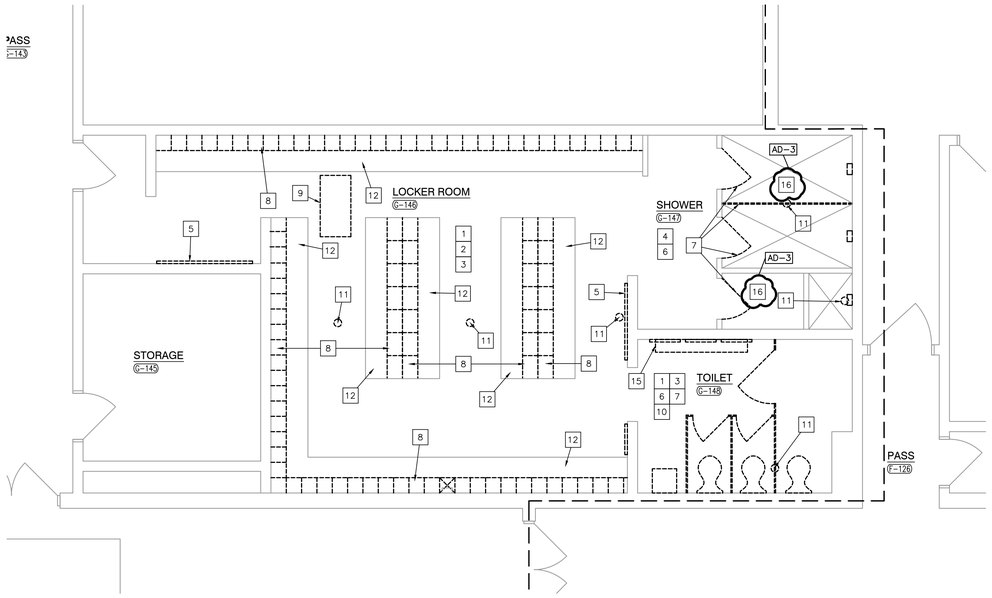

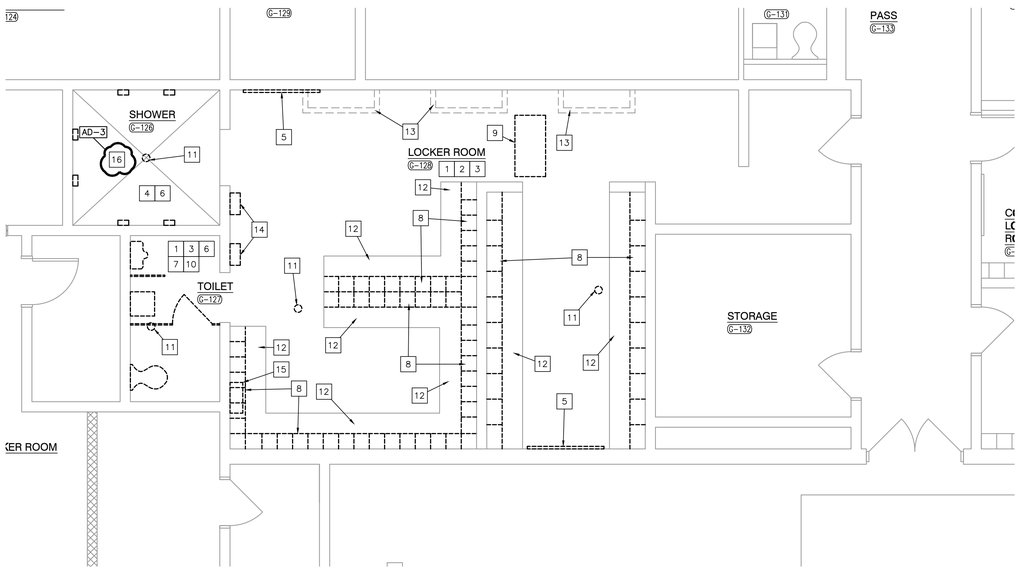

LOCKER ROOM ARCHITECTURAL DEMOLITION PLAN

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

NORTH

GENERAL DEMOLITION NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO GI SERIES SHEETS.

B. UNLESS NOTED OTHERWISE ON THIS SHEET, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL WORK INDICATED ON THIS SHEET.

C. CONTRACTORS ENCOUNTERING EXISTING MATERIAL WHICH IS SUSPECTED OF CONTAINING ASBESTOS SHALL STOP WORK IMMEDIATELY AND NOTIFY THE OWNER AND THE OWNERS REPRESENTATIVE.

D. BOLD DASHED LINES INDICATE EXISTING ITEMS TO BE REMOVED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE EXTENT OF DEMOLITION WORK PRIOR TO BIDDING AND FOR COORDINATING THE EXTENT OF DEMOLITION WITH THE INSTALLATION OF NEW SYSTEMS.

E. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION APPLICABLE TO THEIR SCOPE OF WORK AND AS REQUIRED FOR INSTALLATION OF NEW WORK WHETHER OR NOT IT IS SPECIFICALLY INDICATED OR NOTED IN THESE DOCUMENTS.

F. REMOVE ALL ITEMS AND FINISHES MADE OBSOLETE BY NEW CONSTRUCTION. VERIFY ITEMS DEEMED OBSOLETE WITH ARCHITECT PRIOR TO REMOVAL. REFER TO NEW CONSTRUCTION DRAWINGS FOR DEMOLITION REQUIRED NOT SHOWN ON DEMOLITION PLANS.

G. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR OFF SITE REMOVAL OF ALL DEMOLITION MATERIALS AND/OR ITEMS UNLESS NOTED OTHERWISE OR DIRECTED BY THE OWNER.

H. PRIOR TO STARTING DEMOLITION, CONSTRUCT DUST CONTROL BARRIERS AS REQUIRED TO PREVENT THE SPREAD OF DUST INTO SURROUNDING AREAS (WHERE APPLICABLE).

I. WHERE BUILDING EGRESS IS REQUIRED TO PASS THROUGH DEMOLITION AREAS, PROVIDE APPROVED BARRIERS, ETC. TO ENSURE SAFETY OF THE PUBLIC.

J. RELOCATED ITEMS SHALL BE CLEANED AND PLACED IN STORAGE, PER OWNERS' DIRECTION, UNTIL ITEMS ARE READY TO BE INSTALLED. IF ITEMS ARE DAMAGED DURING DEMOLITION OR RELOCATION, THEY SHALL BE REPAIRED OR REPLACED WITH NEW ITEMS AS APPROVED.

K. DEMOLITION SHALL BE PERFORMED WITHOUT DAMAGE TO EXISTING CONSTRUCTION TO REMAIN. WHERE SUCH DAMAGE OCCURS, PATCH, REPAIR, OR RESTORE WALLS, FLOORS, CEILING, ETC. NEATLY TO MATCH EXISTING ADJACENT SURFACE. PROVIDE SHORING, BRACING, OR SUPPORT AS REQUIRED TO PREVENT MOVEMENT OR SETTLEMENT OF EXISTING STRUCTURES.

L. EACH CONTRACTOR IS RESPONSIBLE FOR CUTTING, PATCHING, AND DISCONNECTION OF ITEMS APPLICABLE TO THEIR SCOPE OF WORK. WHERE EXISTING SERVICES ARE ABANDONED, CAP AT LEAST 1" BEHIND NEW FINISHES AND/OR EXISTING SURFACE AND PATCH AS REQUIRED TO RECEIVE NEW FINISHES OR MATCH EXISTING FINISH.

M. ON WALLS THAT ARE TO RECEIVE NEW FINISHES, REMOVE AND REINSTALL EXISTING EQUIPMENT TO REMAIN AS REQUIRED FOR INSTALLATION OF NEW FINISHES.

N. WHERE WALLS OR BULKHEADS ARE REMOVED, PATCH FLOORS, CEILINGS, AND ADJACENT WALLS AS REQUIRED TO MATCH EXISTING OR RECEIVE NEW FINISHES WHERE APPLICABLE. WHERE EXISTING DUCTWORK, PIPING, OR EQUIPMENT IS REMOVED, PATCH OPENINGS AND/OR SURFACES AS REQUIRED TO MATCH ADJACENT SURFACES OR RECEIVE NEW FINISHES WHERE APPLICABLE. REFER TO ALL DEMOLITION DRAWINGS FOR EXTENT OF ITEMS TO REMOVED.

O. OVER CUT NEW OPENINGS IN EXISTING WALL AS REQUIRED FOR NEW CONSTRUCTION. PATCH AND REPAIR WALLS AS REQUIRED TO MATCH EXISTING. WHERE APPLICABLE, TOOTH NEW MASONRY INTO EXISTING MASONRY.

P. ALL EQUIPMENT AND FURNITURE WHICH ARE CONSIDERED LOOSE FURNISHING SHALL BE REMOVED BY THE OWNER PRIOR TO DEMOLITION.

Q. MASONRY WALLS TO BE REMOVED SHALL BE REMOVED TO A POINT 2" MINIMUM BELOW THE EXISTING FLOOR SLAB UNLESS SETTING ON A SLAB OR SPECIFICALLY NOTED OTHERWISE. PATCH WITH NEW CONCRETE TO BE FLUSH WITH THE EXISTING FLOOR SLAB.

R. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL REVIEW OF DEMOLITION NOTES AND GENERAL DEMOLITION NOTES AS THEY APPLY TO THEIR SCOPE OF WORK.

S. THE OWNER SHALL RESERVE THE RIGHT TO CLAIM ANY MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEM OFF SITE.

T. REFER TO THE STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND TECHNOLOGY DOCUMENTS FOR COMPLETE SCOPE OF DEMOLITION WORK.

U. "FLOORING" DENOTES FLOOR COVERING MATERIALS INCLUDING BACKING, ADHESIVES, AND BASES DOWN TO BUT EXCLUSIVE OF FLOOR SLABS AND STRUCTURAL MATERIALS UNLESS NOTED OTHERWISE.

V. DEMOLITION IS TO FOLLOW ESTABLISHED CONSTRUCTION SEQUENCE. REFER TO SPECIFICATIONS AND DRAWINGS FOR REQUIREMENTS AND SPECIAL CONDITIONS.

W. WHERE APPLICABLE SALVAGE EXISTING MASONRY (FACE BRICK, GLAZED CMU, FACING TILE) AS REQUIRED FOR PATCHING AND INFILL IN RENOVATED AREAS WHERE INDICATED. DISCARD UNUSED PORTION OFF SITE.

DEMOLITION PLAN NOTES:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

1. REMOVE ACOUSTICAL BOARD CEILING SYSTEM IN ITS ENTIRETY.
2. REMOVE ALL WALL ACCESSORIES. PATCH AND REPAIR WALL AS REQUIRED TO ACCEPT NEW FINISHES.
3. REMOVE VCT/SHEET VINYL FLOORING SYSTEM IN ITS ENTIRETY. PREPARE FLOOR FOR NEW FINISHES.
4. REMOVE CERAMIC OR PORCELAIN TILE FLOORING SYSTEM IN ITS ENTIRETY. PREPARE FLOOR FOR NEW FINISHES.
5. REMOVE TACK BOARD, MARKER BOARD OR CHALKBOARD IN THEIR ENTIRETY. PATCH WALL AS REQUIRED TO RECEIVE NEW FINISHES.
6. REMOVE PLUMBING FIXTURES IN THEIR ENTIRETY, PREPARE FOR NEW FIXTURES TO GO IN THEIR PLACE, REFER TO PLUMBING.
7. REMOVE TOILET PARTITIONS IN THEIR ENTIRETY.
8. REMOVE METAL LOCKERS. CONCRETE BASE/BENCH TO REMAIN PREPARE AS REQUIRED FOR NEW LOCKERS.
9. REMOVE CEILING MOUNTED MECHANICAL UNIT IN ITS . REFER TO MECHANICAL DRAWINGS.
10. REMOVE TOILET ACCESSORIES AND TURN OVER TO THE OWNER.
11. REMOVE EXISTING FLOOR DRAIN AND PREPARE FOR NEW DRAIN. REFER TO PLUMBING DRAWINGS.
12. REMOVE PAINT AND REPAIR ANY DAMAGE TO CONCRETE BENCHES AND PREPARE FOR NEW PAINT.
13. EXISTING BULKHEAD AND WINDOW WELL TO REMAIN.
14. REMOVE EXISTING HAIR DRYERS, PATCH AND REPAIR WALL AS REQUIRED FOR NEW FINISHES.
15. REMOVE EXISTING SHELF, PATCH AND REPAIR WALL AS REQUIRED FOR NEW FINISHES.
16. PREPARE EXISTING GLAZED BLOCK WALLS AS REQUIRED FOR NEW WALL TILE TO PROPERLY ADHERE.

AD-3

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

GIBRALTAR DESIGN
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PROJECT 23-140
DATE 10/13/23
COORDINATED BY DTB
DRAWN BY DTB
CHECKED BY DTB DJW

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-3	11/03/23	ADDENDUM NO.3

DRAWING

HIGH SCHOOL LOCKER ROOM ARCHITECTURAL DEMOLITION PLAN

PROJECT

HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET HS AD110

Friday, 11/3/2023 - 4:57 PM - LAST SAVED BY:BURNS
Y:\23-143 HANOVER CSC - HIGH SCHOOL IMPROVEMENTS
- LOCKER ROOMS\23-143 DRAWINGS\05 ARCH\AD101.DWG

1. CASEWORK AND/OR MILLWORK, REFER TO EQUIPMENT PLANS.
2. NEW CONCRETE RAMP, REFER TO CIVIL.
3. FLOOR FINISH TRANSITION, REFER TO FINISH PLANS.
4. UNIT VENTILATOR, REFER TO MECHANICAL DRAWINGS.
5. LINE OF NEW CANOPY, REFER TO SECTIONS.
6. INFILL EXISTING LOUVER OPENING BY TOOTHING IN NEW CMU AND BRICK VENEER MATCHING EXISTING IN SIZE, SHAPE, COLOR, AND PROFILE.
7. NEW 1 1/2" O.D. PAINTED ALUMINUM HANDRAIL WITH ALUMINUM BRACKETS AT 35" ABOVE SLOPE OF RAMP AND FLOOR. EXTEND RAIL 12" PAST TOP AND BOTTOM OF RAMP AND RETURN ENDS TO WALL.
8. UNIT VENTILATOR HEAVY GAUGE PAINTED METAL CLOSURE TO MATCH UNIT VENTILATOR. COORDINATE EACH CONDITION IN FIELD WITH WALL, FLOOR AND CEILING CONDITION. (4 / A-501)
9. TOOTH IN NEW CMU INTO EXISTING. AD-3
10. NEW 45"W X 46"H LOUVER TOOTH IN NEW CMU AND SALVAGED BRICK AROUND NEW LOUVER WHERE EXISTING LOUVER WAS REMOVED, REFER TO MECHANICAL.
11. NEW BACKER ROD AND SEALANT AROUND STONE SILLS AND CLEAN SILL FOR ENTIRE BAY OF WINDOWS OR ENTIRE LENGTH OF WALL AT ADMIN.
12. RESET SAGGED STONE SILL ABOVE EXISTING LOUVER SO THAT IT IS BACK INLINE WITH ADJACENT SILLS.
13. REPLACE CRACKED SECTION OF STONE SILL WITH NEW MATCHING COLOR AND PROFILE OF EXISTING.
14. CLEAN EXISTING CMU WALL.
15. NEW ALUMINUM DOWNSPOUT AND BOOT CONNECTED INTO STORM SEWER. ADJUST GUTTER TO WORK WITH NEW DOWNSPOUT LOCAITION, REFER TO CIVIL.
16. RELOCATE EXISTING ALUMINUM DOWNSPOUT AND BOOT AND CONNECT INTO STORM SEWER, REFER TO CIVIL.
17. EXISTING GUTTER AND DOWNSPOUT. MODIFY AS REQUIRED TO CONNECT NEW CANOPY GUTTER SYSTEM AND MAINTAIN POSITIVE DRAINAGE.
18. SALVAGED WOOD DOOR AND HARDWARE WITH NEW HOLLOW METAL FRAME.
19. RELOCATED SMART BOARD. AD-1
20. PUSH PAD FOR ADA OPERATOR, REFER TO ELECTRICAL DRAWINGS.
21. CARD/FOB READER, REFER TO ELECTRICAL DRAWINGS. AD-2
22. INSTALL SALVAGED KNOX BOX, REPLACE IF DAMAGED.
23. MECHANICAL YARD GATE (4 / A-402)
24. INFILL EXISTING WINDOW OPENING WITH NEW CMU AND BRICK TO MATCH ADJACENT WALLS. COORDINATE WITH NEW LOUVER OPENING.
25. EPOXY INJECT CRACKS IN THE CONCREETE STOOP AND THE FOUNDATION IN THIS AREA. AD-3

GENERAL PLAN NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO GI SERIES SHEETS.

B. PLAN DIMENSIONS TO MASONRY WALLS ARE TO FACE OF ROUGH MASONRY. PLAN DIMENSIONS TO STUD WALLS ARE TO FACE OF FINISHED GYPSUM BOARD OR PLASTER. PLAN DIMENSIONS TO STUD WALLS WITH CERAMIC TILE FINISH ARE TO THE FACE OF TILE BACKER BOARD.

C. 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.

D. MASONRY WALLS BEARING ON A THICKENED SLAB AT SLAB DEPRESSIONS REQUIRE CUT MASONRY UNITS SO THAT COURSING BEGINS AT THE FLOOR LINE.

E. THE BASE FIRST FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.

F. HINGE SIDE OF DOOR JAMB AT CMU WALLS SHALL BE LOCATED 8" MINIMUM FROM ADJACENT WALL AND HINGE SIDE OF DOOR JAMB AT GYPSUM BOARD WALLS SHALL BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.

G. PROVIDE WOOD BLOCKING (OR METAL STRAPPING WHERE APPLICABLE) AS REQUIRED WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.

H. REFER TO LIFE SAFETY PLANS REGARDING FIRE RATED WALL LOCATIONS AND OTHER CODE INFORMATION.

I. INTERIOR CMU WALLS ARE TO BE RUNNING BOND UNLESS NOTED OTHERWISE.

J. WHERE NEW CMU WALLS INTERSECT EXISTING CMU WALLS AT A CORNER OR ARE ALIGNED WITH EXISTING CMU WALLS, TOOTH NEW CMU INTO EXISTING CMU UNLESS NOTED OTHERWISE.

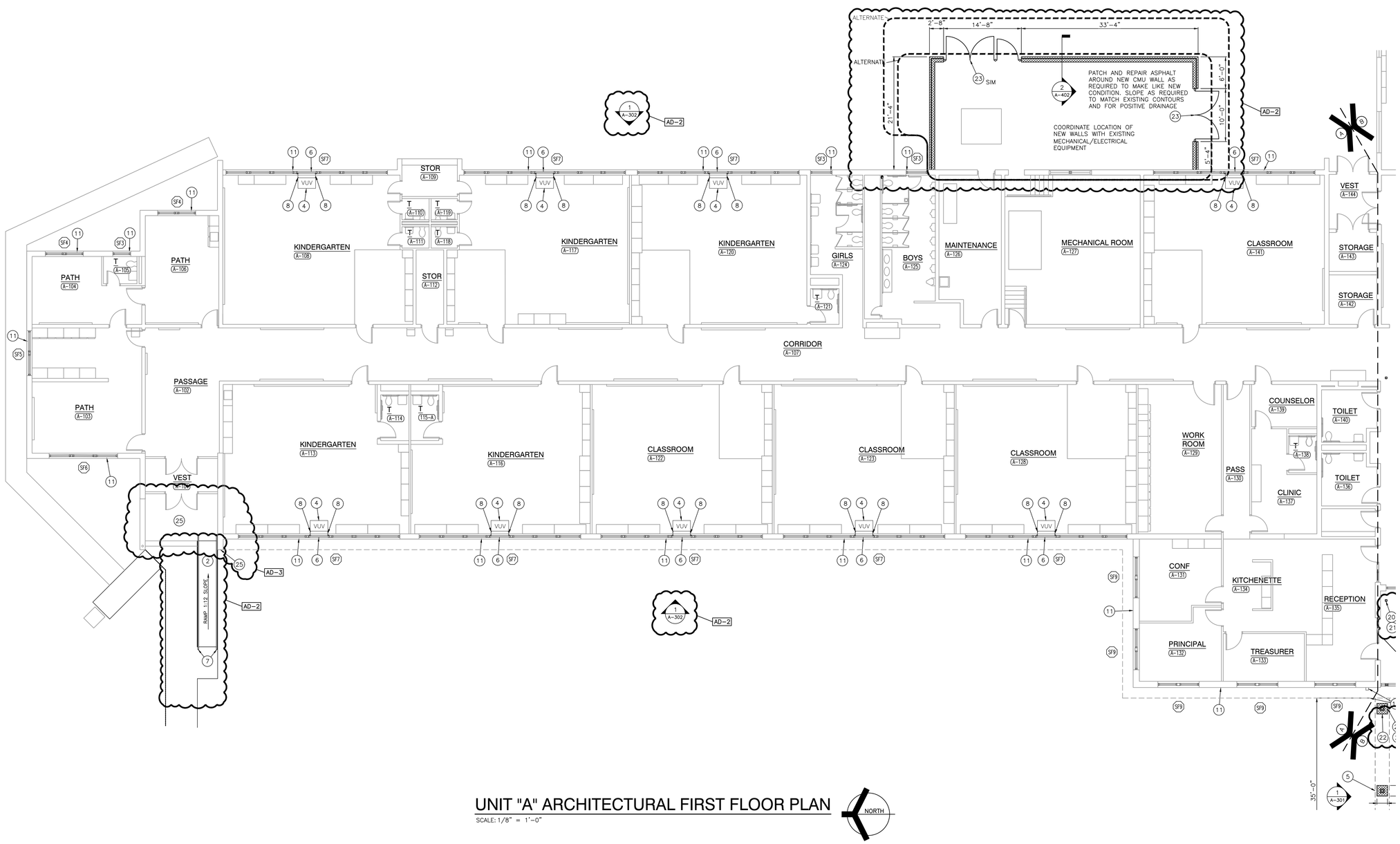
K. REFER TO FINISH PLANS FOR LOCATION AND EXTENT OF FINISHED FLOOR AND WALL MATERIAL.

L. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSED, EXCEPT AT MASONRY BULKHEADS AND EXTERIOR WINDOW JAMBS.

M. REFER TO DEMOLITION SHEETS FOR ADDITIONAL PATCHING AND REPAIR WORK.

PLAN LEGEND:

- INDICATES STOREFRONT, CURTAIN WALL, OR WINDOW SYSTEM. REFER TO A-600 SERIES DRAWINGS FOR ELEVATIONS AND DETAILS.
- INDICATES WALL TYPES REFER TO G-201 FOR WALL THICKNESS, HEIGHT, AND COMPOSITION.
- INDICATES CASEWORK ELEVATION SYMBOL – REFER TO A-501 SERIES DRAWINGS FOR ELEVATIONS AND DETAILS.



UNIT "A" ARCHITECTURAL FIRST FLOOR PLAN

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

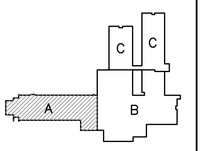
NORTH

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA



KEY PLAN

GIBRALTAR DESIGN
9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
Homepage www.GibraltarDesign.com
Email info@GibraltarDesign.com
Phone 317.580.5777 Fax 317.580.5778

PROJECT 23-140
DATE 10/13/23
COORDINATED BY DTB
DRAWN BY DTB
CHECKED BY DTB DJW

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

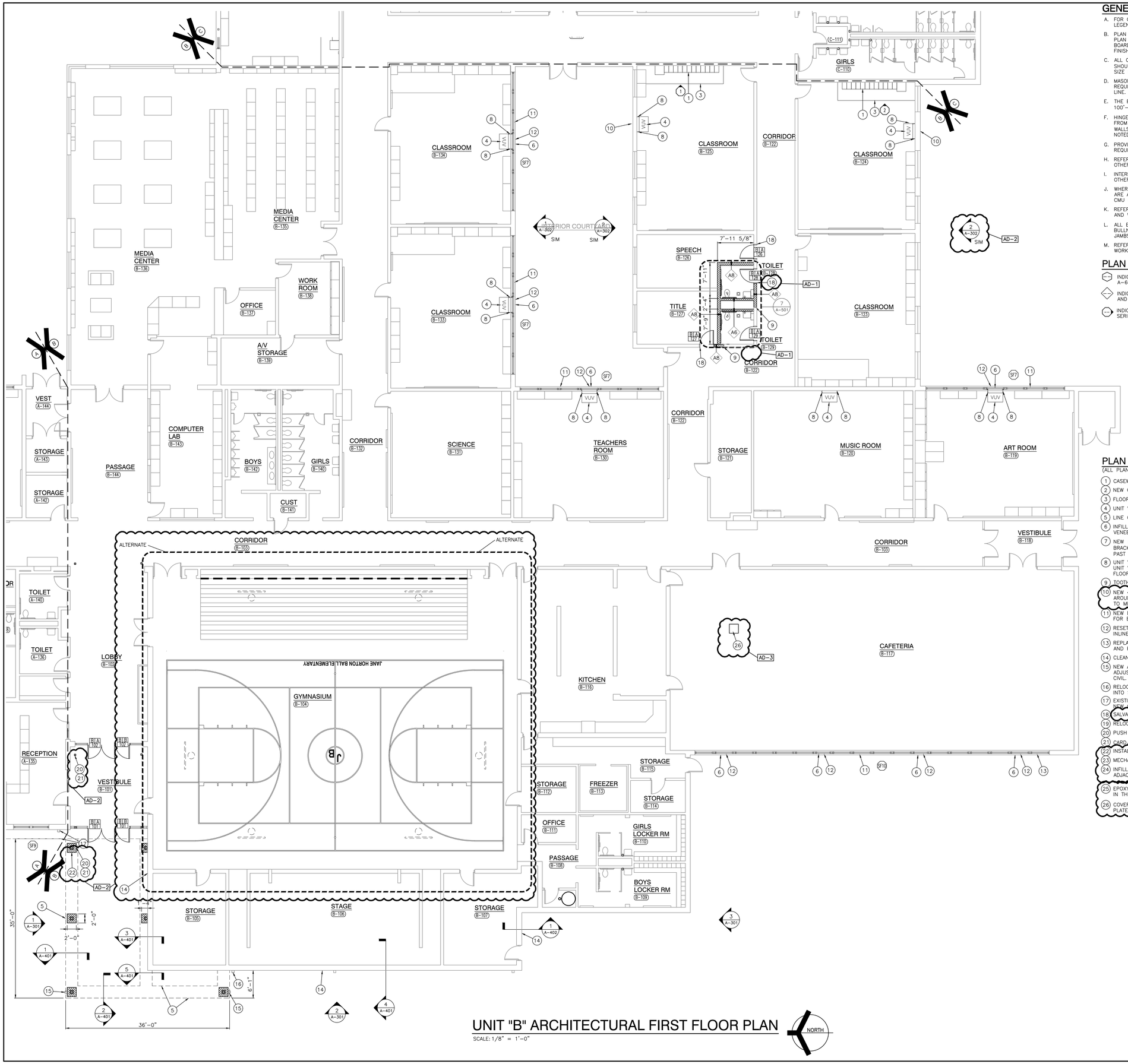
MARK	DATE	ISSUED FOR
AD-2	10/30/23	ADDENDUM NO.2
AD-3	11/03/23	ADDENDUM NO.3

DRAWING
UNIT "A" ARCHITECTURAL FIRST FLOOR PLAN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
JB A-101

Friday, 11/3/2023 - 1:07 PM - LAST SAVED BY:DBURNS
Y:\23-140 HANOVER CSC - JANE BALL ELEMENTARY SCHOOL RENOVATION\23-140 DRAWINGS\05 ARCH\A-101.DWG



UNIT "B" ARCHITECTURAL FIRST FLOOR PLAN

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

NORTH

GENERAL PLAN NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO GI SERIES SHEETS.

B. PLAN DIMENSIONS TO MASONRY WALLS ARE TO FACE OF ROUGH MASONRY. PLAN DIMENSIONS TO STUD WALLS ARE TO FACE OF FINISHED GYPSUM BOARD OR PLASTER. PLAN DIMENSIONS TO STUD WALLS WITH CERAMIC TILE FINISH ARE TO THE FACE OF TILE BACKER BOARD.

C. 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.

D. MASONRY WALLS BEARING ON A THICKENED SLAB AT SLAB DEPRESSIONS REQUIRE CUT MASONRY UNITS SO THAT COURSING BEGINS AT THE FLOOR LINE.

E. THE BASE FIRST FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.

F. HINGE SIDE OF DOOR JAMB AT CMU WALLS SHALL BE LOCATED 8" MINIMUM FROM ADJACENT WALL AND HINGE SIDE OF DOOR JAMB AT GYPSUM BOARD WALLS SHALL BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.

G. PROVIDE WOOD BLOCKING (OR METAL STRAPPING WHERE APPLICABLE) AS REQUIRED WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.

H. REFER TO LIFE SAFETY PLANS REGARDING FIRE RATED WALL LOCATIONS AND OTHER CODE INFORMATION.

I. INTERIOR CMU WALLS ARE TO BE RUNNING BOND UNLESS NOTED OTHERWISE.

J. WHERE NEW CMU WALLS INTERSECT EXISTING CMU WALLS AT A CORNER OR ARE ALIGNED WITH EXISTING CMU WALLS, TOOTH NEW CMU INTO EXISTING CMU UNLESS NOTED OTHERWISE.

K. REFER TO FINISH PLANS FOR LOCATION AND EXTENT OF FINISHED FLOOR AND WALL MATERIAL.

L. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSED, EXCEPT AT MASONRY BULKHEADS AND EXTERIOR WINDOW JAMBS.

M. REFER TO DEMOLITION SHEETS FOR ADDITIONAL PATCHING AND REPAIR WORK.

PLAN LEGEND:

INDICATES STOREFRONT, CURTAIN WALL, OR WINDOW SYSTEM. REFER TO A-600 SERIES DRAWINGS FOR ELEVATIONS AND DETAILS.

INDICATES WALL TYPES REFER TO G-201 FOR WALL THICKNESS, HEIGHT, AND COMPOSITION.

INDICATES CASEWORK ELEVATION SYMBOL – REFER TO A-501 SERIES DRAWINGS FOR ELEVATIONS AND DETAILS.

PLAN NOTES:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

1. CASEWORK AND/OR MILLWORK, REFER TO EQUIPMENT PLANS.
2. NEW CONCRETE RAMP, REFER TO CIVIL.
3. FLOOR FINISH TRANSITION, REFER TO FINISH PLANS.
4. UNIT VENTILATOR, REFER TO MECHANICAL DRAWINGS.
5. LINE OF NEW CANOPY, REFER TO SECTIONS.
6. INFILL EXISTING LOUVER OPENING BY TOOTHING IN NEW CMU AND BRICK VENEER MATCHING EXISTING IN SIZE, SHAPE, COLOR, AND PROFILE.
7. NEW 1 1/2" O.D. PAINTED ALUMINUM HANDRAIL WITH ALUMINUM BRACKETS AT 35" ABOVE SLOPE OF RAMP AND FLOOR. EXTEND RAIL 12" PAST TOP AND BOTTOM OF RAMP AND RETURN ENDS TO WALL.
8. UNIT VENTILATOR HEAVY GAUGE PAINTED METAL CLOSURE TO MATCH UNIT VENTILATOR. COORDINATE EACH CONDITION IN FIELD WITH WALL, FLOOR AND CEILING CONDITION.
9. TOOTH IN NEW CMU INTO EXISTING. AD-3
10. NEW 45"W X 46"H LOUVER TOOTH IN NEW CMU AND SALVAGED BRICK AROUND NEW LOUVER WHERE EXISTING LOUVER WAS REMOVED, REFER TO MECHANICAL.
11. NEW BACKER ROD AND SEALANT AROUND STONE SILLS AND CLEAN SILL FOR ENTIRE BAY OF WINDOWS OR ENTIRE LENGTH OF WALL AT ADMIN.
12. RESET SAGGED STONE SILL ABOVE EXISTING LOUVER SO THAT IT IS BACK INLINE WITH ADJACENT SILLS.
13. REPLACE CRACKED SECTION OF STONE SILL WITH NEW MATCHING COLOR AND PROFILE OF EXISTING.
14. CLEAN EXISTING CMU WALL.
15. NEW ALUMINUM DOWNSPOUT AND BOOT CONNECTED INTO STORM SEWER. ADJUST GUTTER TO WORK WITH NEW DOWNSPOUT LOCATION, REFER TO CIVIL.
16. RELOCATE EXISTING ALUMINUM DOWNSPOUT AND BOOT AND CONNECT INTO STORM SEWER, REFER TO CIVIL.
17. EXISTING GUTTER AND DOWNSPOUT, MODIFY AS REQUIRED TO CONNECT NEW CANOPY GUTTER SYSTEM AND MAINTAIN POSITIVE DRAINAGE.
18. SALVAGED WOOD DOOR AND HARDWARE WITH NEW HOLLOW METAL FRAME. AD-1
19. RELOCATED SMART BOARD.
20. PUSH PAD FOR ADA OPERATOR, REFER TO ELECTRICAL DRAWINGS. AD-2
21. CARD READER, REFER TO ELECTRICAL DRAWINGS.
22. INSTALL SALVAGED KNOX BOX, REPLACE IF DAMAGED.
23. MECHANICAL YARD GATE — 4/A-402
24. INFILL EXISTING WINDOW OPENING WITH NEW CMU AND BRICK TO MATCH ADJACENT WALLS. COORDINATE WITH NEW LOUVER OPENING.
25. EPOXY INJECT CRACKS IN THE CONCREETE STOOP AND THE FOUNDATION IN THIS AREA.
26. COVER EXISTING OPENING FROM MECHANICAL UNIT WITH METAL CLOSURE PLATE PAINTED TO MATCH CEILING. AD-3

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

KEY PLAN

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PROJECT 23-140
DATE 10/13/23
COORDINATED BY DTB
DRAWN BY DTB
CHECKED BY DTB DJW

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

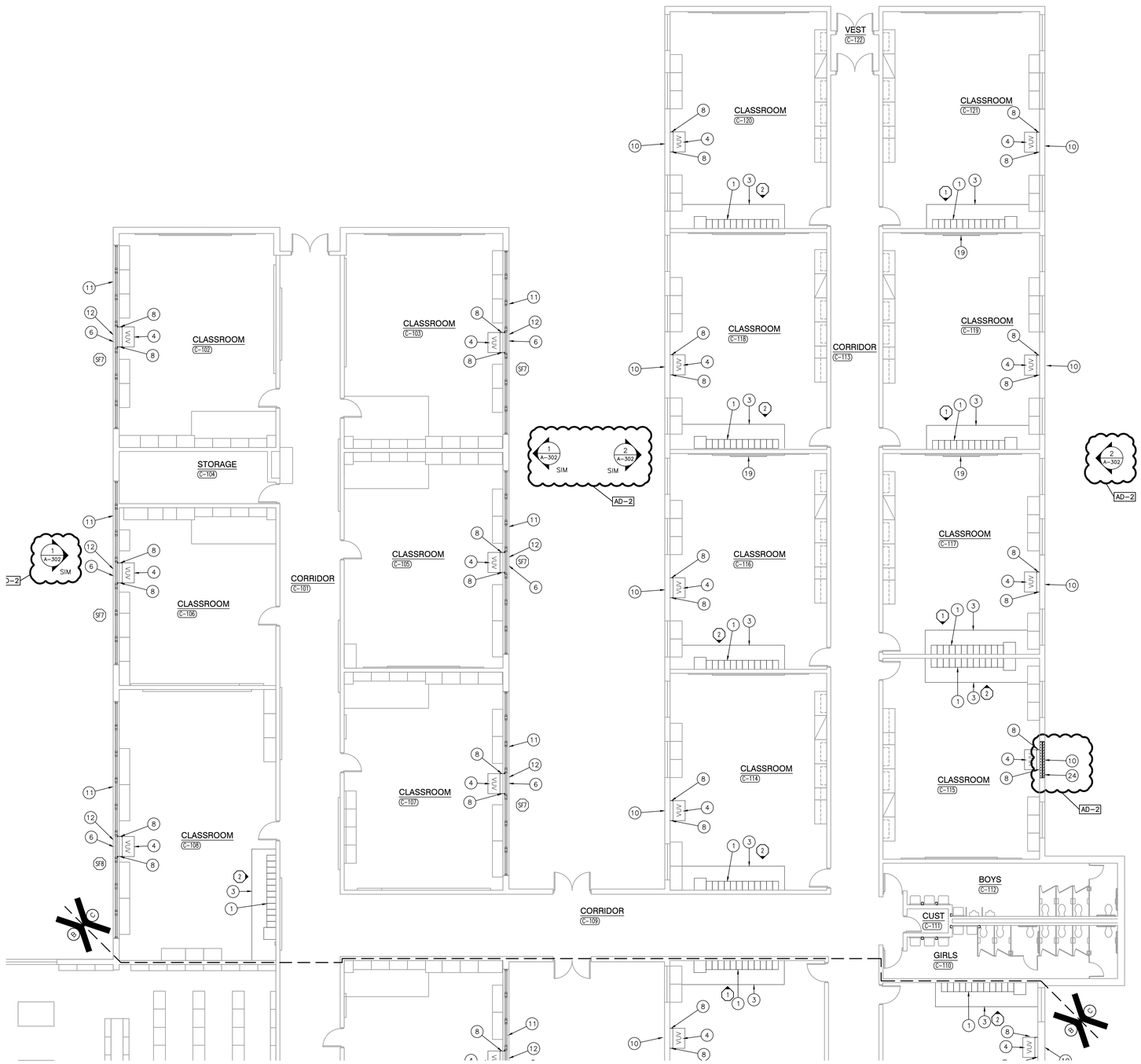
MARK	DATE	ISSUED FOR
AD-1	10/24/23	ADDENDUM NO.1
AD-2	10/30/23	ADDENDUM NO.2
AD-3	11/03/23	ADDENDUM NO.3

DRAWING
UNIT "B" ARCHITECTURAL FIRST FLOOR PLAN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
JB A-102

Friday, 11/3/2023 - 5:17 PM - LAST SAVED BY:DBURNS
Y:\23-140 HANOVER CSC - JANE BALL ELEMENTARY SCHOOL RENOVATION\23-140 DRAWINGS\05 ARCH\A-102.DWG



UNIT "C" ARCHITECTURAL FIRST FLOOR PLAN

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

NORTH

GENERAL PLAN NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO GI SERIES SHEETS.

B. PLAN DIMENSIONS TO MASONRY WALLS ARE TO FACE OF ROUGH MASONRY. PLAN DIMENSIONS TO STUD WALLS ARE TO FACE OF FINISHED GYPSUM BOARD OR PLASTER. PLAN DIMENSIONS TO STUD WALLS WITH CERAMIC TILE FINISH ARE TO THE FACE OF TILE BACKER BOARD.

C. 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.

D. MASONRY WALLS BEARING ON A THICKENED SLAB AT SLAB DEPRESSIONS REQUIRE CUT MASONRY UNITS SO THAT COURSING BEGINS AT THE FLOOR LINE.

E. THE BASE FIRST FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.

F. HINGE SIDE OF DOOR JAMB AT CMU WALLS SHALL BE LOCATED 8" MINIMUM FROM ADJACENT WALL AND HINGE SIDE OF DOOR JAMB AT GYPSUM BOARD WALLS SHALL BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.

G. PROVIDE WOOD BLOCKING (OR METAL STRAPPING WHERE APPLICABLE) AS REQUIRED WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.

H. REFER TO LIFE SAFETY PLANS REGARDING FIRE RATED WALL LOCATIONS AND OTHER CODE INFORMATION.

I. INTERIOR CMU WALLS ARE TO BE RUNNING BOND UNLESS NOTED OTHERWISE.

J. WHERE NEW CMU WALLS INTERSECT EXISTING CMU WALLS AT A CORNER OR ARE ALIGNED WITH EXISTING CMU WALLS, TOOTH NEW CMU INTO EXISTING CMU UNLESS NOTED OTHERWISE.

K. REFER TO FINISH PLANS FOR LOCATION AND EXTENT OF FINISHED FLOOR AND WALL MATERIAL.

L. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSED, EXCEPT AT MASONRY BULKHEADS AND EXTERIOR WINDOW JAMBS.

M. REFER TO DEMOLITION SHEETS FOR ADDITIONAL PATCHING AND REPAIR WORK.

PLAN LEGEND:

INDICATES STOREFRONT, CURTAIN WALL, OR WINDOW SYSTEM. REFER TO A-600 SERIES DRAWINGS FOR ELEVATIONS AND DETAILS.

INDICATES WALL TYPES REFER TO G-201 FOR WALL THICKNESS, HEIGHT, AND COMPOSITION.

INDICATES CASEWORK ELEVATION SYMBOL – REFER TO A-501 SERIES DRAWINGS FOR ELEVATIONS AND DETAILS.

PLAN NOTES:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

1. CASEWORK AND/OR MILLWORK, REFER TO EQUIPMENT PLANS.
2. NEW CONCRETE RAMP, REFER TO CIVIL.
3. FLOOR FINISH TRANSITION, REFER TO FINISH PLANS.
4. UNIT VENTILATOR, REFER TO MECHANICAL DRAWINGS.
5. LINE OF NEW CANOPY, REFER TO SECTIONS.
6. INFILL EXISTING LOUVER OPENING BY TOOTHING IN NEW CMU AND BRICK VENEER MATCHING EXISTING IN SIZE, SHAPE, COLOR, AND PROFILE.
7. NEW 1 1/2" O.D. PAINTED ALUMINUM HANDRAIL WITH ALUMINUM BRACKETS AT 35" ABOVE SLOPE OF RAMP AND FLOOR. EXTEND RAIL 12" PAST TOP AND BOTTOM OF RAMP AND RETURN ENDS TO WALL.
8. UNIT VENTILATOR HEAVY GAUGE PAINTED METAL CLOSURE TO MATCH UNIT VENTILATOR. COORDINATE EACH CONDITION IN FIELD WITH WALL, FLOOR AND CEILING CONDITION. (4 / A-501)
9. TOOTH IN NEW CMU INTO EXISTING. AD-3
10. NEW 45"W X 46"H LOUVER TOOTH IN NEW CMU AND SALVAGED BRICK AROUND NEW LOUVER WHERE EXISTING LOUVER WAS REMOVED, REFER TO MECHANICAL.
11. NEW BACKER ROD AND SEALANT AROUND STONE SILLS AND CLEAN SILL FOR ENTIRE BAY OF WINDOWS OR ENTIRE LENGTH OF WALL AT ADMIN.
12. RESET SAGGED STONE SILL ABOVE EXISTING LOUVER SO THAT IT IS BACK INLINE WITH ADJACENT SILLS.
13. REPLACE CRACKED SECTION OF STONE SILL WITH NEW MATCHING COLOR AND PROFILE OF EXISTING.
14. CLEAN EXISTING CMU WALL.
15. NEW ALUMINUM DOWNSPOUT AND BOOT CONNECTED INTO STORM SEWER. ADJUST GUTTER TO WORK WITH NEW DOWNSPOUT LOCAITION, REFER TO CIVIL.
16. RELOCATE EXISTING ALUMINUM DOWNSPOUT AND BOOT AND CONNECT INTO STORM SEWER, REFER TO CIVIL.
17. EXISTING GUTTER AND DOWNSPOUT. MODIFY AS REQUIRED TO CONNECT NEW CANOPY GUTTER SYSTEM AND MAINTAIN POSITIVE DRAINAGE.
18. SALVAGED WOOD DOOR AND HARDWARE WITH NEW HOLLOW METAL FRAME. AD-1
19. RELOCATED SMART BOARD.
20. PUSH PAD FOR ADA OPERATOR, REFER TO ELECTRICAL DRAWINGS. AD-2
21. CARD/FOB READER, REFER TO ELECTRICAL DRAWINGS.
22. INSTALL SALVAGED KNOX BOX. REPLACE IF DAMAGED.
23. MECHANICAL YARD GATE (4 / A-402)
24. INFILL EXISTING WINDOW OPENING WITH NEW CMU AND BRICK TO MATCH ADJACENT WALLS. COORDINATE WITH NEW LOUVER OPENING.
25. EPOXY INJECT CRACKS IN THE CONCRETE STOOP AND THE FOUNDATION IN THIS AREA. AD-3

KEY PLAN

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PROJECT
23-140
DATE
10/13/23
COORDINATED BY
DTB
DRAWN BY
DTB
CHECKED BY
DTB DJW

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

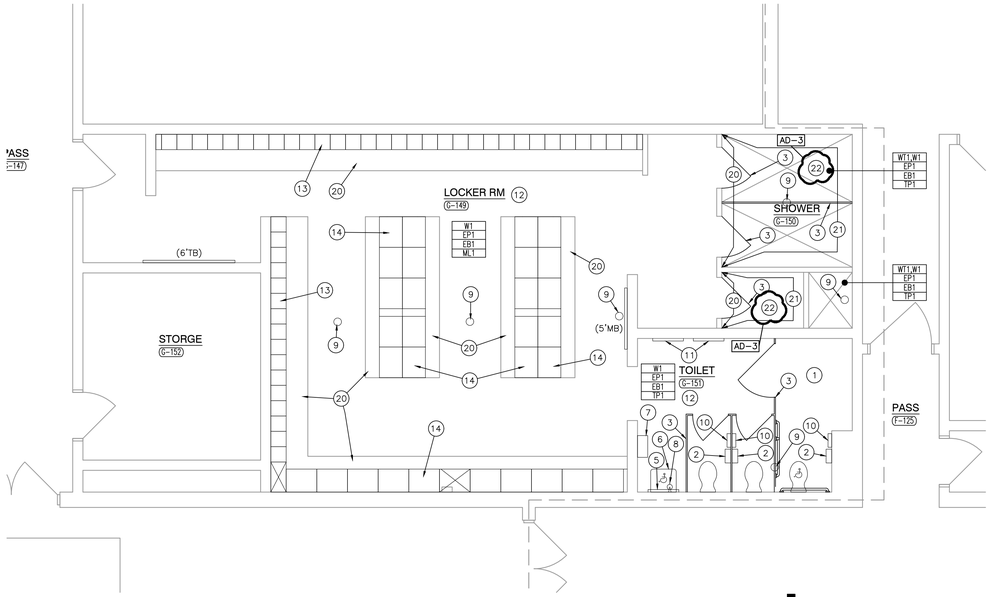
MARK	DATE	ISSUED FOR
AD-2	10/30/23	ADDENDUM NO.2
AD-3	11/03/23	ADDENDUM NO.3

DRAWING
UNIT "C" ARCHITECTURAL FIRST FLOOR PLAN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

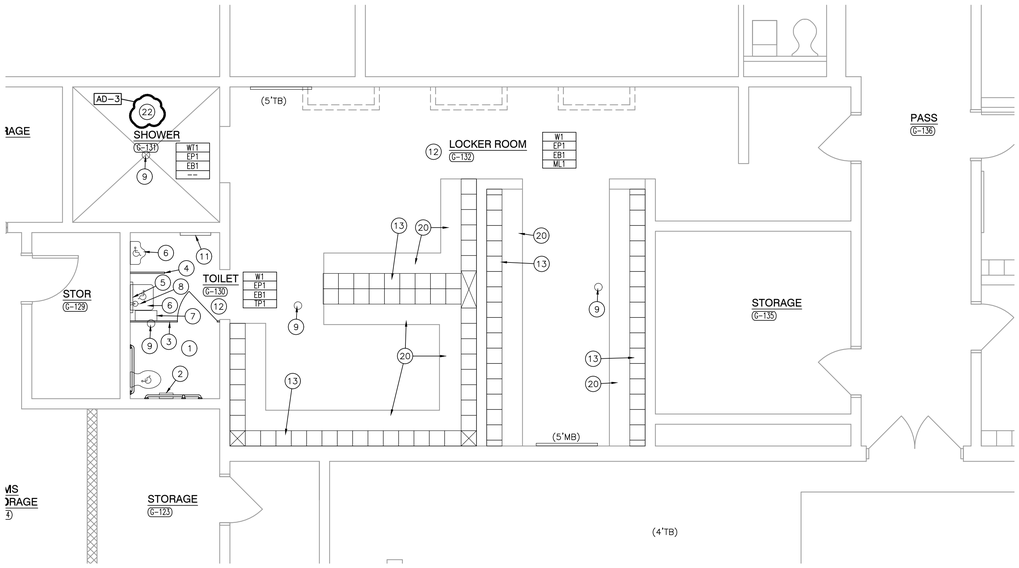
SHEET
JB A-103

Friday, 11/3/2023 - 1:08 PM - LAST SAVED BY:DBURNS
Y:\23-140 HANOVER CSC - JANE BALL ELEMENTARY SCHOOL RENOVATION\23-140 DRAWINGS\05 ARCH\A-103.DWG



LOCKER ROOM ARCHITECTURAL FLOOR PLAN

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



LOCKER ROOM ARCHITECTURAL FLOOR PLAN

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

GENERAL PLAN NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO G SERIES SHEETS.

B. PLAN DIMENSIONS TO MASONRY WALLS ARE TO FACE OF ROUGH MASONRY. PLAN DIMENSIONS TO STUD WALLS ARE TO FACE OF FINISHED GYPSUM BOARD OR PLASTER. PLAN DIMENSIONS TO STUD WALLS WITH CERAMIC TILE FINISH ARE TO THE FACE OF TILE BACKER BOARD.

C. REFER TO DEMOLITION SHEETS FOR ADDITIONAL PATCHING AND REPAIR WORK.

D. DEPTH OF ALL TOILET ENCLOSURES SHALL BE A MINIMUM OF 5'-0" CLEAR INSIDE DIMENSION UNLESS NOTED OTHERWISE.

E. REFER TO PLUMBING DRAWINGS FOR FIXTURE TYPES.

F. REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS.

G. COORDINATE HEIGHT OF GRAB BAR WITH TANK OF FLOOR MOUNTED WATER CLOSET OR FLUSH VALVE OF WALL MOUNTED WATER CLOSET.

H. INSTALL LAVATORIES AND URINALS AT 2'-6" ON CENTER MINIMUM UNLESS NOTED OTHERWISE.

I. WHERE EXISTING PARTITIONS ARE REPLACED AND NEW PARTITION BRACKETS DO NOT COVER OLD MOUNTING HOLES, PATCH HOLE OR REPLACE TILE TO MATCH ADJACENT WALL FINISH.

J. WHERE EXISTING PARTITIONS ARE REPLACED AND NO DIMENTIONS ARE INDICATED, VERIFY LOCATION OF EXISTING PARTITIONS AND INSTALL NEW PARTITIONS IN SAME LOCATION.

PLAN NOTES:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

1. ACCESSIBLE FACILITIES. → 1 / A-101
2. TOILET PAPER HOLDER. (OFCI)
3. TOILET PARTITION.
4. URINAL SCREEN WALL.
5. 2'-0" W x 3'-0" H MIRROR WITH BOTTOM OF REFLECTIVE SURFACE MOUNTED AT 40"A.F.F.
6. ACCESSIBLE FIXTURE (LAVATORY/URNAL). SEE PLUMBING DRAWINGS.
7. PAPER TOWEL DISPENSER. (OFCI)
8. SOAP DISPENSER. (OFCI)
9. FLOOR DRAIN. SEE PLUMBING DRAWINGS.
10. FEMININE NAPKIN DISPOSAL.
11. 2'-0" x 5'-0" MIRROR BOTTOM @ 1'-4" A.F.F.
12. NEW CLEANABLE ACT TILE (ACT1) AND GRID; HEIGHT AND LAYOUT TO MATCH EXISTING
13. NEW VENTED METAL LOCKERS TYPE A: 12"W X 12"D X 60"H
14. NEW VENTED METAL LOCKERS TYPE B: 24"W X 18"D X 60"H
15. PAINT LOCKER BENCH W?

PLAN NOTES, FINISH:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

20. WALL COATING, W1
21. WALL TILE, WT1
22. INSTALL SCHLUTER STRIP AT BOTTOM OF WALL TILE 4" ABOVE FINISH FLOOR FOR EPOXY BASE TO DIE INTO

AD-3

PLAN LEGEND:

(TB) INDICATES 4' HIGH TACK BOARD, LENGTH AS INDICATED, REFER TO G-301 FOR MOUNTING HEIGHT DRAWING.

(MB) INDICATES 4' HIGH MARKER BOARD, LENGTH AS INDICATED, REFER TO G-301 FOR MOUNTING HEIGHT DRAWING.

P1	WALL FINISH
C1	FLOOR FINISH
B1	BASE FINISH
--	MISC FINISH INFORMATION

ROOM FINISHES:

P1 (PAINT), SHERWIN WILLIAMS, CEILING BRIGHT WHITE 7007

W1 (WALL COATING), SHERWIN WILLIAMS, SW 7010 WHITE DUCK

WT1 (WALL TILE), CROSSVILLE, LAMINAM CALCE 3+, BIANCO

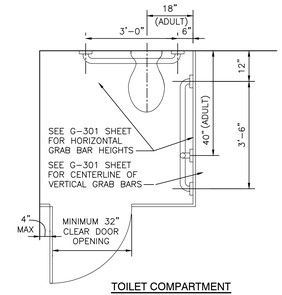
FP1 (EPOXY FLOOR), SHERWIN WILLIAMS, RESUFLOR DECO QUARTZ, MIDNIGHT.

EB1 (EPOXY BASE), SHERWIN WILLIAMS, RESUFLOR DECO QUARTZ, MIDNIGHT.

TP1 (TOILET PARTITION), SCRANTON PRODUCTS, CHARCOAL GREY, ORANGE PEEL FINISH.

ACT1 (ACOUSTICAL CEILING TILE), CERTAINTEED, VINYLSHIELD, WHITE, 24" X 24"

ML1 (VENTED METAL LOCKERS), LYON, RED VELVET.



TOILET COMPARTMENT

ACCESSIBLE FACILITIES

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

1 / A-101

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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PROJECT 23-140
DATE 10/13/23
COORDINATED BY DTB
DRAWN BY DTB
CHECKED BY DTB DJW

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-3	11/03/23	ADDENDUM NO.3

DRAWING
HIGH SCHOOL LOCKER ROOM ARCHITECTURAL FLOOR PLAN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET HS A-110

PARTIAL ARCHITECTUREAL ROOF PLAN

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

NORTH

GENERAL ROOF PLAN NOTES:

A. FOR GENERAL NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC. SEE SHEET GI201.

B. THERE MAY BE LOCATIONS ON THE EXISTING ROOF WHERE THE EXISTING ROOF DECK MAY NOT BE STRUCTURALLY SOUND. CONTRACTORS SHOULD USE EXTREME CAUTION IN WORKING THESE ROOF AREAS TO MAINTAIN SAFE WORKING CONDITIONS.

C. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, 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.

D. THE ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ALL DAMAGE CAUSED BY THE IMPROPER STORAGE OR STACKING OF ROOFING MATERIALS.

E. ALL DIMENSIONS INDICATED ON THE ROOF PLAN ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ACCURATE FIELD MEASUREMENTS FOR THE EXECUTION OF HIS WORK AND PRIOR TO ANY FABRICATION OF THE VARIOUS MATERIALS.

F. THE ROOF CONTRACTOR SHALL PROTECT ALL ROOF DRAINS, SCUPPERS AND DOWNSPOUTS FROM DEBRIS CREATED DURING DEMOLITION AND/OR NEW CONSTRUCTION. THE ROOF CONTRACTOR SHALL INSPECT AND CLEAR ALL DRAINS, SCUPPERS AND DOWNSPOUTS PRIOR TO COMPLETION OF WORK AND TO ENSURE THAT THEY ARE FREE OF DEBRIS AND ARE FUNCTIONING PROPERLY.

G. ROOF DRAIN LOCATION INDICATE DESIGN INTENT. COORDINATE LOCATIONS WITH STRUCTURAL AND MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

H. LOCATION AND QUANTITY OF ALL ROOF DRAINS, FLUES, VENTS, POWER AND GRAVITY VENTILATORS, ETC., SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD.

I. FOR NEW AND/OR EXISTING PLUMBING VENT LOCATIONS REFER TO MECHANICAL ROOF PLANS.

J. EXTEND ALL PLUMBING VENTS SO THAT THE TOP IS A MINIMUM OF 12" ABOVE THE ROOFING MEMBRANE.

K. PROVIDE NEW FLASHING AND TWO PIECE COUNTER-FLASHING WHERE NEW ROOFING ABUTS A NEW OR EXISTING WALL, UNLESS OTHERWISE NOTED OR DETAILED.

L. PROVIDE FLASHING AND SADDLES FOR ALL EQUIPMENT PROVIDED UNDER MECHANICAL.

M. FLASHING OF ALL VENTS, FAN CURBS, MASONRY WALLS, FLUES, DRAINS, FASCIAS, ETC., SHALL BE PERFORMED IN ACCORDANCE WITH THESE SPECIFICATIONS AND DRAWINGS, AND WITH ROOFING MANUFACTURERS STANDARD DETAILS AND SPECIFICATIONS.

N. CONTRACTOR TO PROVIDE CRICKETS AND/OR ROOF SADDLES AS REQUIRED TO PROMOTE POSITIVE DRAINAGE AROUND ALL ROOF TOP PENETRATIONS.

O. SADDLES AND TAPERED INSULATION SYMBOLS INDICATE DESIGN INTENT TO SLOPES TO DRAIN. CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS FOR TAPERED INSULATION AND SADDLES TO ENSURE POSITIVE SLOPE.

P. ALL NEW WOOD BLOCKING AND NAILERS SHALL BE TREATED WOOD.

Q. DEMOLITION AND REMOVAL OPERATIONS ARE TO BE PERFORMED CARE-FULLY AND ALL PORTIONS OF THE BUILDING SHALL BE PROTECTED DURING THESE OPERATIONS. ITEMS TO BE REUSED AND REINSTALLED ARE TO BE CAREFULLY REMOVED AND STORED. DAMAGES INCURRED DURING REMOVAL OR STORAGE SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

R. REMOVE ALL POWER VENTILATORS, FANS AND GRAVITY VENTILATORS. REPLACE ALL DETERIORATED, LOOSE, OR FAULTY WOOD BLOCKING. REPLACE AND EXTEND CURBS WITH NEW TREATED WOOD BLOCKING WITH TOP AT 12" MINIMUM ABOVE THE NEW ROOFING MEMBRANE. REINSTALL FANS AND VENTILATORS WITH "KORFUND ELASTO-RIB" VIBRATION ELIMINATOR, SET ON THE CURB TOP OF ALL POWER DRIVEN FANS AND VENTS.

S. REMOVE ALL EXISTING ROOF GRAVEL, RESIDUE, AND ALL PROJECTIONS WHICH WOULD PREVENT THE NEW ROOF INSULATION FROM LAYING FLAT OVER THE EXISTING ROOF SURFACES.

T. REMOVE AND CLEAN ROOF DRAIN STRAINERS AND CLAMP RINGS. REINSTALL AFTER NEW ROOF INSULATION AND ROOFING MEMBRANE ARE IN PLACE, ANY BROKEN OR MISSING ROOF DRAIN STRAINER SHALL BE REPLACED WITH A NEW STRAINER.

U. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF ROOF TOP EQUIPMENT TO BE REMOVED.

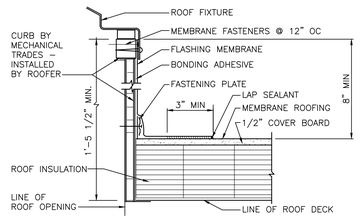
ROOF TYPES:

(A) STANDING SEAM METAL ROOF SLOPE TO BE 4:12.
(B) REMOVE EXISTING ROOF SYSTEM, TECTUM DECK AND JOISTS, INSTALL NEW STRUCTURE, METAL DECK, INSULATION, 1/2" COVER BOARD AND EPDM ROOF MEMBRANE TO MACH ADJACENT ROOF. LAP NEW MEMBRANE OVER EXISTING MEMBRANE AND ADHERE AS REQUIRED TO MAINTAIN ROOF WARRANTY REFER TO STRUCTURAL.
(C) EXISTING STANDING SEAM METAL ROOF SYSTEM.
(D) EXISTING MEMBRANE ROOF SYSTEM.

ROOF PLAN NOTES:

(ALL PLAN NOTES MAY NOT BE INDICATED ON THIS SHEET.)

(1) NEW 6X6 ALUMINUM GUTTER
(2) MODIFY EXISTING GUTTER AS REQUIRED TO CONNECT NEW GUTTER AND MAINTAIN POSITIVE DRAINAGE.
(3) ALUMINUM DOWNSPOUT AND BOOT, REFER TO CIVIL.
(4) RELOCATED DOWNSPOUT AND BOOT. MODIFY EXISTING GUTTER TO SLOPE TO NEW DOWNSPOUT LOCATION, REFER TO CIVIL.
(5) MECHANICAL UNIT, REFER TO MECHANICAL.
(6) MECHANICAL UNIT TO BE DEMOLISHED, REFER TO MECHANICAL. CURB TO REMAIN, INSULATE TOP WITH 2" RIGID INSULATION, 1/2" COVER BOARD AND COVER WITH EPDM ROOF MEMBRANE, SLOPE AS REQUIRED FOR POSITIVE DRAINAGE.



ROOF CURB FLASHING DETAIL

SCALE: 3" = 1'-0"

1 A-201

GIBRALTAR
DESIGN
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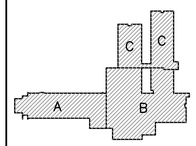
PROJECT

HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA



KEY PLAN

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PROJECT 23-140
DATE 10/13/23
COORDINATED BY DTB
DRAWN BY DTB
CHECKED BY DTB DJW

JOSEPH P. BRIGGS REGISTERED NO. 11600109 STATE OF INDIANA ARCHITECT

REVISIONS

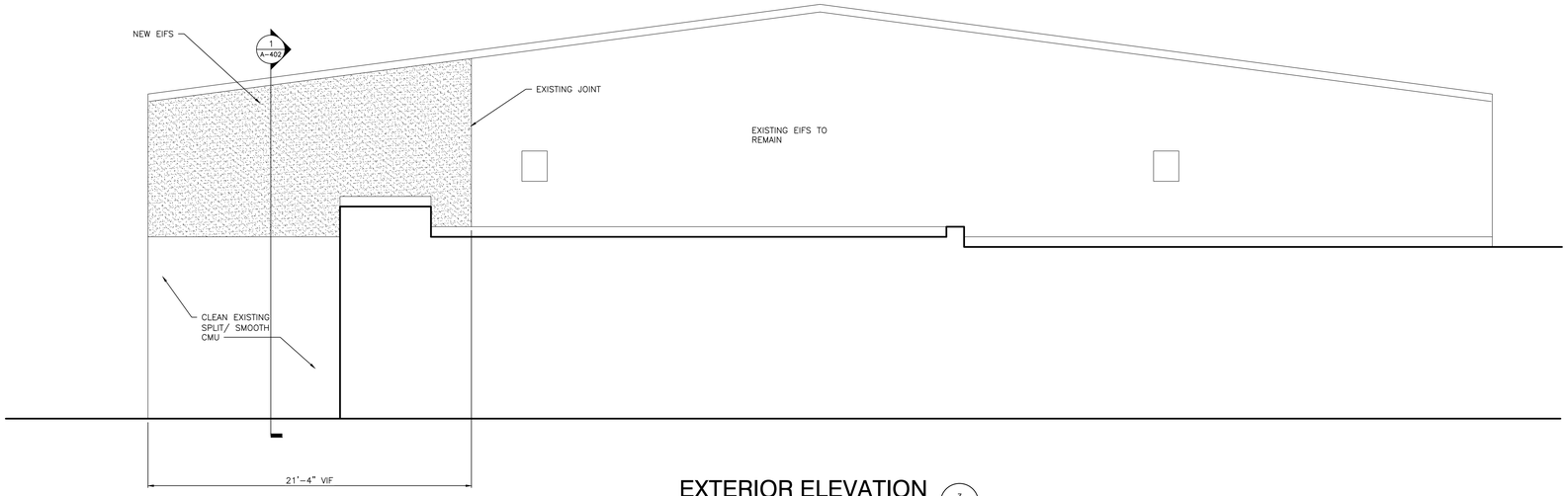
MARK	DATE	ISSUED FOR
AD-3	11/03/23	ADDENDUM NO.3

DRAWING
PARTIAL ARCHITECTURAL ROOF PLAN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
A-201

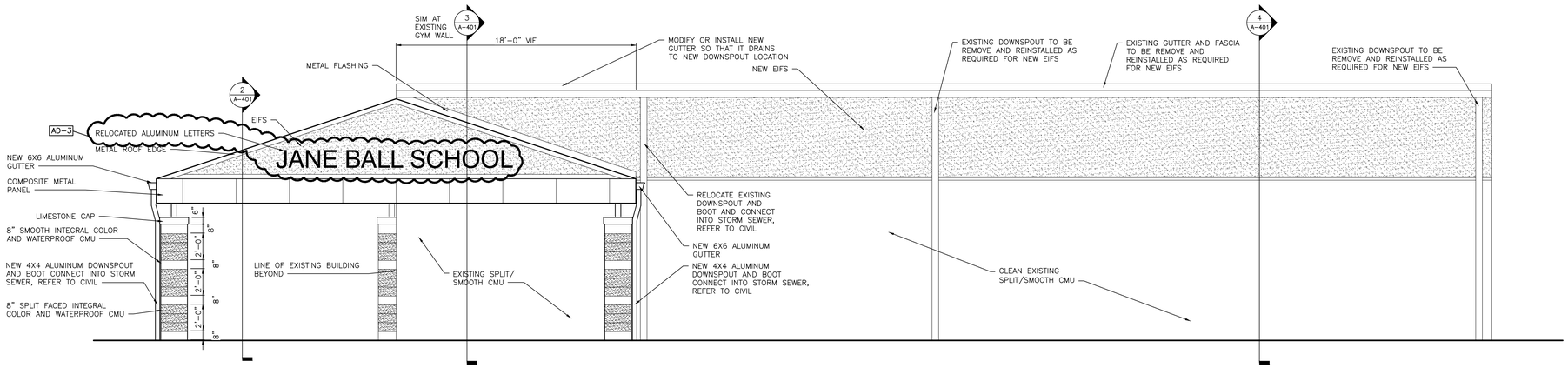
Friday, 11/3/2023 - 5:21 PM - LAST SAVED BY:DBURNS
Y:\23-140 HANOVER CSC - JANE BALL ELEMENTARY SCHOOL RENOVATION\23-140 DRAWINGS\05 ARCH\A-201.DWG



EXTERIOR ELEVATION

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

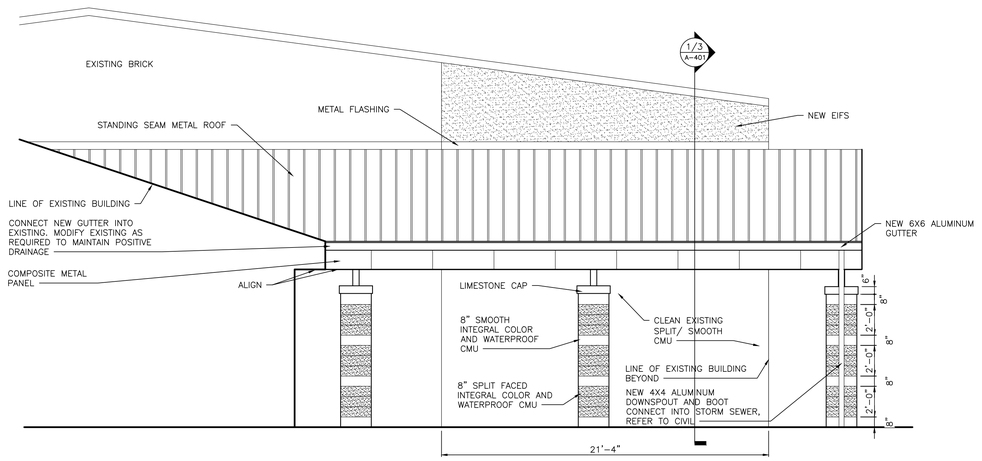
3 A-301



EXTERIOR ELEVATION

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

2 A-301



EXTERIOR ELEVATION

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

1 A-301

GIBRALTAR DESIGN
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PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

PROJECT 23-140
DATE 10/13/23
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EXTERIOR ELEVATIONS

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SHEET
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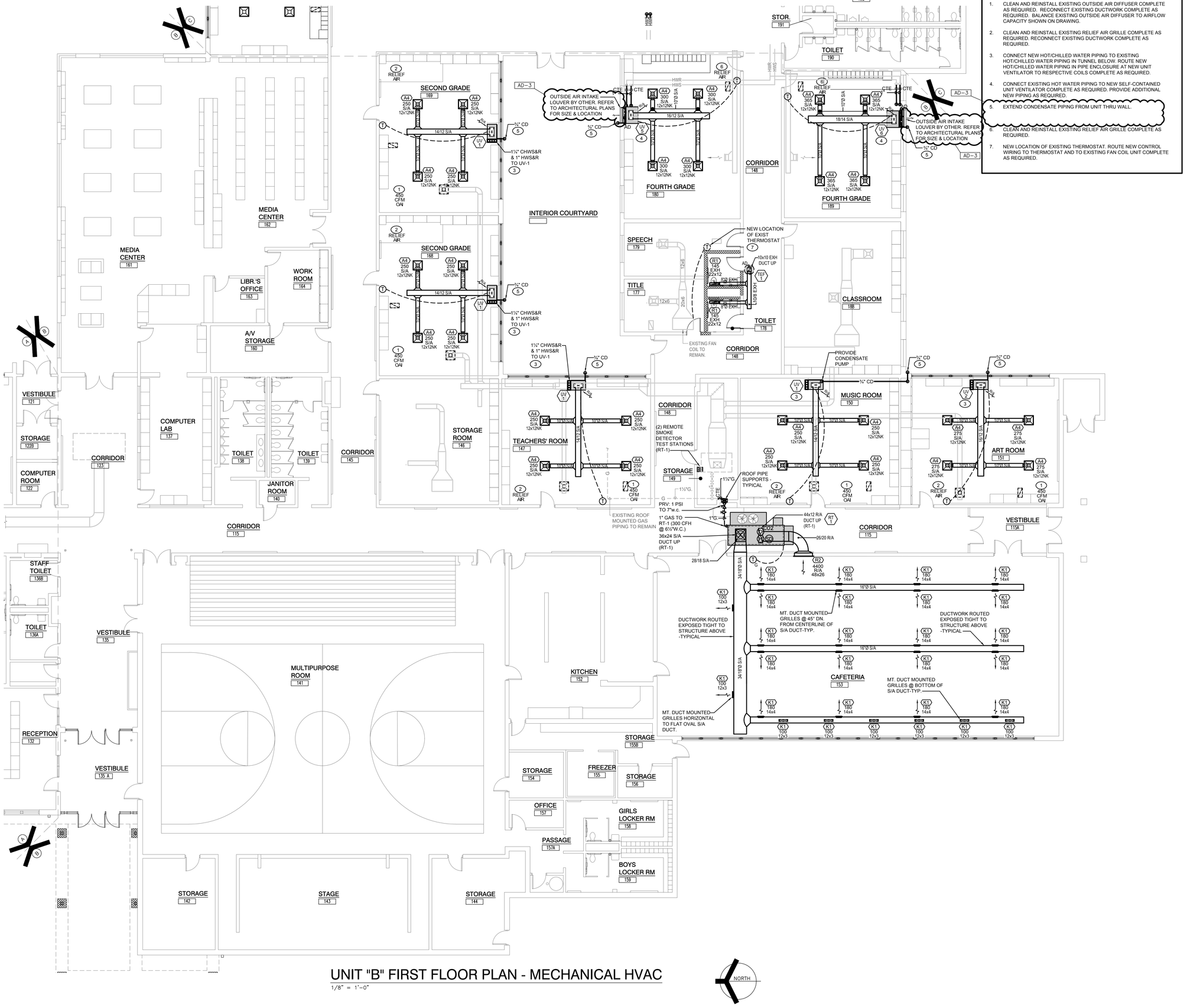

SHEET NOTES

1. CLEAN AND REINSTALL EXISTING OUTSIDE AIR DIFFUSER COMPLETE AS REQUIRED. RECONNECT EXISTING DUCTWORK COMPLETE AS REQUIRED. BALANCE EXISTING OUTSIDE AIR DIFFUSER TO AIRFLOW CAPACITY SHOWN ON DRAWING.
2. CLEAN AND REINSTALL EXISTING RELIEF AIR GRILLE COMPLETE AS REQUIRED. RECONNECT EXISTING DUCTWORK COMPLETE AS REQUIRED.
3. CONNECT NEW HOT/CHILLED WATER PIPING TO EXISTING HOT/CHILLED WATER PIPING IN TUNNEL BELOW. ROUTE NEW HOT/CHILLED WATER PIPING IN PIPE ENCLOSURE AT NEW UNIT VENTILATOR TO RESPECTIVE COILS COMPLETE AS REQUIRED.
4. CONNECT EXISTING HOT WATER PIPING TO NEW SELF-CONTAINED UNIT VENTILATOR COMPLETE AS REQUIRED. PROVIDE ADDITIONAL NEW PIPING AS REQUIRED.
5. EXTEND CONDENSATE PIPING FROM UNIT THRU WALL.
6. CLEAN AND REINSTALL EXISTING RELIEF AIR GRILLE COMPLETE AS REQUIRED.
7. NEW LOCATION OF EXISTING THERMOSTAT. ROUTE NEW CONTROL WIRING TO THERMOSTAT AND TO EXISTING FAN COIL UNIT COMPLETE AS REQUIRED.

UNIT "B" FIRST FLOOR PLAN - MECHANICAL HVAC

1/8" = 1'-0"

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PROJECT

HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

KEY PLAN

GIBRALTAR DESIGN
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PROJECT 23-140
DATE 10/13/23
COORDINATED BY JC
DRAWN BY JC, RH
CHECKED BY DJ

REGISTERED PROFESSIONAL ENGINEER — DAVID G. JANES — NO. 10302590 — STATE OF INDIANA

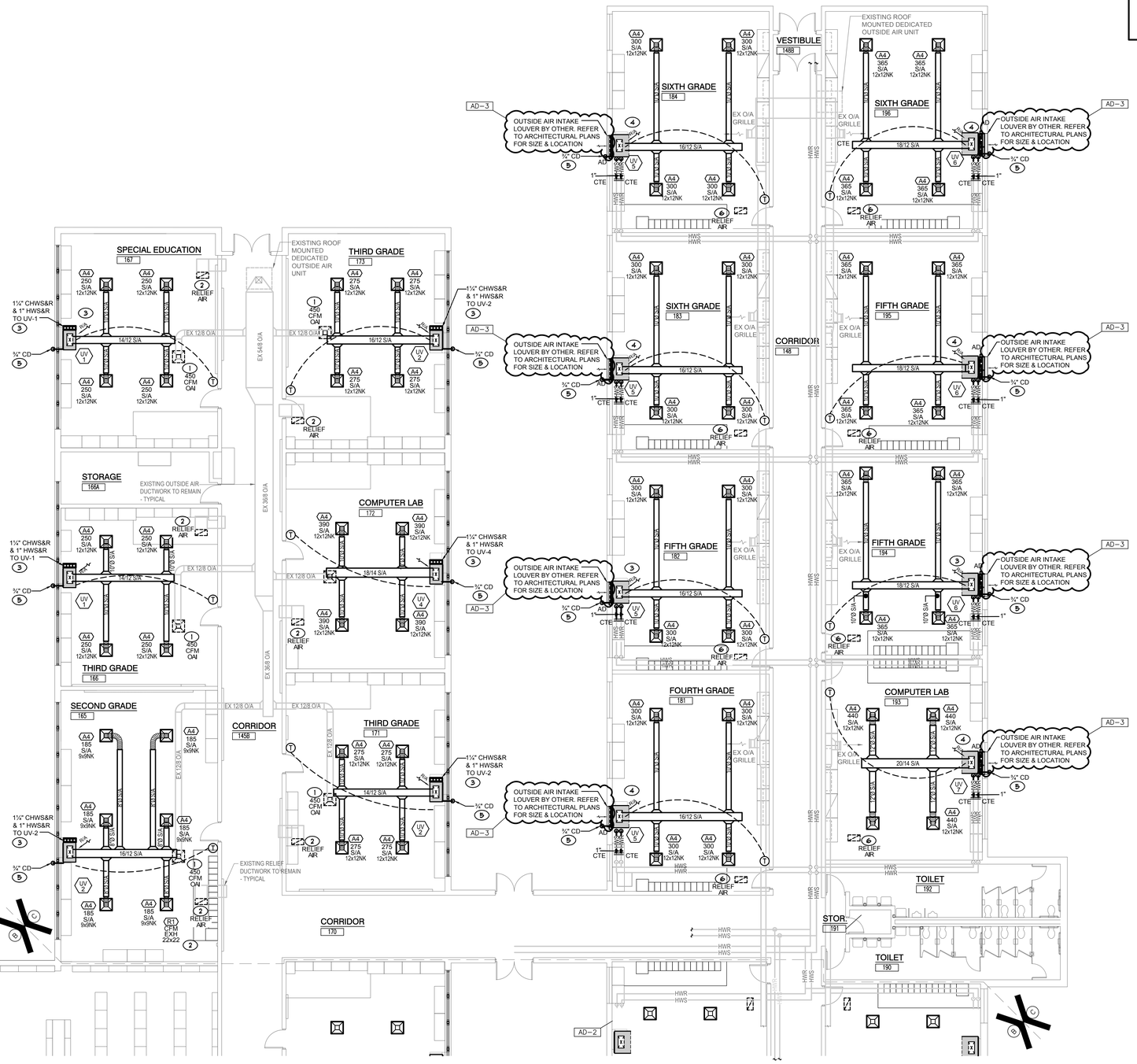
REVISIONS

MARK	DATE	ISSUED FOR
AD-2	10/30/23	ADDENDUM NO. 2
AD-3	11/03/23	ADDENDUM NO. 3

DRAWING
UNIT "B" FIRST FLOOR PLAN - MECHANICAL HVAC

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
JB M-102



UNIT "C" FIRST FLOOR PLAN - MECHANICAL HVAC

1/8" = 1'-0"

SHEET NOTES

1. CLEAN AND REINSTALL EXISTING OUTSIDE AIR DIFFUSER COMPLETE AS REQUIRED. RECONNECT EXISTING DUCTWORK COMPLETE AS REQUIRED. BALANCE EXISTING OUTSIDE AIR DIFFUSER TO AIRFLOW CAPACITY SHOWN ON DRAWING.
2. CLEAN AND REINSTALL EXISTING RELIEF AIR GRILLE COMPLETE AS REQUIRED. RECONNECT EXISTING DUCTWORK COMPLETE AS REQUIRED.
3. CONNECT NEW HOT/CHILLED WATER PIPING TO EXISTING HOT/CHILLED WATER PIPING IN TUNNEL BELOW. ROUTE NEW HOT/CHILLED WATER PIPING IN PIPE ENCLOSURE AT NEW UNIT VENTILATOR TO RESPECTIVE COILS COMPLETE AS REQUIRED.
4. CONNECT EXISTING HOT WATER PIPING TO NEW SELF-CONTAINED UNIT VENTILATOR COMPLETE AS REQUIRED. PROVIDE ADDITIONAL NEW PIPING AS REQUIRED.

AD-3

5. EXTEND CONDENSATE PIPING FROM UNIT THRU WALL.
6. CLEAN AND REINSTALL EXISTING RELIEF AIR GRILLE COMPLETE AS REQUIRED

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A B

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DRAWING
UNIT "C" FIRST FLOOR PLAN - MECHANICAL HVAC

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
JB M-103

MECHANICAL EQUIPMENT SCHEDULE - JANE BALL ES

TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	EFF	FAN MOTOR DATA						EXHAUST FANS				DX COOLING EQUIP/COIL DATA								GAS FIRED HEATING EQUIP DATA				CHILLED WATER COOLING EQUIP/COIL DATA									HOT WATER HEATING EQUIP/COIL DATA							ELECTRICAL DATA										UNITS	EQUIP	REMARKS
					CFM	MIN OAI HIGH	MIN OAI LOW	ESP	HP	RPM	CFM	TSP	HP	RPM	MBH	SHC	EDB	EWB	LDB	LWB	CAT	STAGES	MBH (IN)	MBH (OUT)	EAT	LAT	STAGES	MBH	SHC	GPM	EDB	EWB	LDB	LWB	EWT	LWT	MAX WPD	CAT	MBH (OUT)	GPM	EAT	LAT	EWT	LWT	MAX WPD	LOAD HP	MCA	FLA	AMPS	MOCP	VOLT	PHASE	HZ.	STARTER: MC.	STARTER: EC.	CONTROLLED BY	WEIGHT	
UV-1	SYSTEMAIR	S12211B	VERTICAL UNIT VENTILATOR - 4 PIPE HOT/CHILLED WATER	-	1000	0	0	0.5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.8	27.6	8	76.7	63.9	51.6	51.2	44.0	53.2	12	-	20.8	8.0	69.8	110.3	180	169	12	-	5	-	-	15	208	1	60	X	-	TSTAT/EX FMS	700	NOTE 1
UV-2	SYSTEMAIR	S12211B	VERTICAL UNIT VENTILATOR - 4 PIPE HOT/CHILLED WATER	-	1100	0	0	0.5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.0	24.8	5	76.1	64.0	55.6	54.9	44.0	56.0	12	-	20.7	6.0	69.9	107.1	180	165	12	-	5	-	-	15	208	1	60	X	-	TSTAT/EX FMS	700	NOTE 1
UV-3	SYSTEMAIR	S12211B	VERTICAL UNIT VENTILATOR - 4 PIPE HOT/CHILLED WATER	-	1200	0	0	0.5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.5	27.1	5	76.3	63.3	55.8	54.7	44.0	56.2	12	-	16.9	6.0	70	105.8	180	164	12	-	5	-	-	15	208	1	60	X	-	TSTAT/EX FMS	700	NOTE 1
UV-4	SYSTEMAIR	S12211B	VERTICAL UNIT VENTILATOR - 4 PIPE HOT/CHILLED WATER	-	1560	0	0	0.5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37.9	34.4	6	76.3	63.0	56.2	54.7	44.0	56.6	12	-	17	5.0	69.9	100.4	180	159	12	-	7.4	-	-	15	208	1	60	X	-	TSTAT/EX FMS	700	NOTE 1
UV-5	SYSTEMAIR	SOPHOMORE SERIES	VERTICAL UNIT VENTILATOR - SELF CONTAINED	11.3 EER	1200	0	0	0.5	0.5	-	-	-	-	-	36.3	27.7	80	67	-	-	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.4	6	70.2	111.5	180	140	12	-	23	-	-	30	208	3	60	X	-	TSTAT/EX FMS	750	NOTE 2
UV-6	SYSTEMAIR	SOPHOMORE SERIES	VERTICAL UNIT VENTILATOR - SELF CONTAINED	10.7 ERR	1460	0	0	0.5	0.75	-	-	-	-	-	46.1	35	80	67	-	-	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.7	6	70.2	108	180	140	12	-	33	-	-	40	208	3	60	X	-	TSTAT/EX FMS	750	NOTE 2
UV-7	SYSTEMAIR	SOPHOMORE SERIES	VERTICAL UNIT VENTILATOR - SELF CONTAINED	10.9 ERR	1760	0	0	0.5	1	-	-	-	-	-	56.8	42.1	80	67	-	-	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.5	6	69.7	104.2	180	140	12	-	35	-	-	50	208	3	60	X	-	TSTAT/EX FMS	750	NOTE 2
RT-1	VALENT	VXE-112-36D-12.5I	ROOF MOUNTED GAS HEATING/DX COOLING ROOFTOP UNIT - SZVAV	10.8 EER	4400	2185	440	1.1	5	2276	4400	0.2	3	1974	146	116	77.9	64.6	53.8	53.6	95	MOD	300	243	58.2	109	MOD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	TSTAT/EX FMS	3200	NOTE 3
TEF-1	GREENHECK	G-095	ROOF MOUNTED TOILET EXHAUST FAN	-	-	-	-	-	-	-	290	0.4	1/12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EX FMS	31	NOTE 4

NOTES:

1. PROVIDE WITH:
   - INTEGRATED ENTHALPY ECONOMIZER
   - DISCONNECT SWITCH
   - FACE/BYPASS DAMPER
   - FILTERS
   - CONDENSATE PUMP (WHERE INDICATED ON PLANS)
   - 10" WIDE SIDE MOUNTED PIPE CHASE W/ ACCESS DOOR

   SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. PROVIDE WITH:
   - INTEGRATED ENTHALPY ECONOMIZER
   - DOORS W/PUNCHED GRILLES
   - DISCONNECT SWITCH
   - STAINLESS STEEL CD DRIP PAN
   - FILTERS: 2" MERV 8
   - ECM SUPPLY FAN
   - DDC READY CONTROLS
   - EXTERIOR LOUVER & WALL SLEEVE
   - ECM CONDENSING FAN

   SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

3. PROVIDE WITH:
   - DX COOLING CAPACITIES INDICATED BASED ON A TOTAL EQUIVALENT COOLING FROM A COMBINATION OF DX SECTION & ERV COOLING
   - INTEGRATED ECONOMIZER WITH DIFFERENTIAL ENTHALPY SENSORS
   - FEEDBACK SIGNAL w/ IECC 2015 COMPLIANT LOW LEAK ECONOMIZER DAMPER.
   - DIGITAL SCROLL (LEAD ONLY) OR VARIABLE SPEED COMPRESSORS
   - S/A & POW EXH DIRECT DRIVE FANS W/VFD,
   - NON-FUSED DISCONNECT SWITCH
   - SHORT CIRCUIT RATING XX K
   - PHASE & BROWN-OUT PROTECTION
   - HINGED ACCESS DOORS
   - VIBRATION ISOLATION CURB w/ HUSHCORE DECK DS-52 ACOUSTICAL TREATMENT.
   - POWERED EXHAUST FAN W/BLDG PRESSURIZATION CONTROL.
   - ENERGY RECOVERY WHEEL w/DEFROST & ECONOMIZER BYPASS - SEE HEAT RECOVERY SCHEDULE
   - MODULATING HOT GAS REHEAT AND DEHUMIDIFICATION CONTROLS
   - STAINLESS STEEL HEAT EXCHANGER
   - MODULATING GAS w/HIGH TURNDOWN (SEE SCHEDULE)
   - FLUE DEFLECTOR
   - METAL MESH OUTSIDE AIR INTAKE HOOD FILTER
   - CONDENSER FAN w/VFD FOR HEAD PRESSURE CONTROL
   - SITE GLASS
   - SINGLE ZONE VAV HEATING & COOLING
   - HAIL CONDENSER COIL GUARD PROTECTION
   - FILTERS: ERV(OAI) - 2" 30%, ERV(EXHI) - 2" 30%, EVAPORATOR - 4" MERV 13
   - R/A MOUNTED CO2 SENSOR FOR DEMAND CONTROL VENTILATION

   SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

4. PROVIDE WITH:
   - PROVIDE WITH DISCONNECT SWITCH
   - ECM MOTOR WITH POTENTIOMETER SPEED CONTROLLER
   - MOTORIZED DAMPER
   - BIRD SCREEN
   - ROOF CURB

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

MECHANICAL EQUIPMENT SCHEDULE - HANOVER HIGH SCHOOL

TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	FAN MOTOR DATA			EXHAUST FANS					HOT WATER HEATING EQUIPMENT/COIL DATA								ELECTRICAL DATA											UNITS	EQUIP	REMARKS
				CFM	HP	RPM	CFM	ESP	BHP	HP	RPM	MBH (IN)	MBH (OUT)	GPM	EAT	LAT	EWT	LWT	MAX WPD	LOAD HP	MCA	FLA	AMPS	MOCP	VOLT	PHASE	HZ.	STARTER: MC.	STARTER: EC.	CONTROLLED BY	WEIGHT	
CH-1	VULCAN	C-1180-10	SUSPENDED HORIZONTAL CABINET HEATER - HOT WATER	1060	1/10,1/15	1050	-	-	-	-	-	-	72	6.2	60	134	180	160	5	-	-	-	2.2	15	120	1	60	x	-	FMS	185	NOTE 1
TEF-1	GREENHECK	G-100-VG	ROOF MOUNTED TOILET EXHAUST FAN - BOYS SHOWER	-	-	-	780	0.6	0.15	1/4	1391	-	-	-	-	-	-	-	-	-	4.8	-	-	15	120	1	60	-	x	FMS	38	NOTE 2
TEF-2	GREENHECK	G-095-VG	ROOF MOUNTED TOILET EXHAUST FAN - GIRLS SHOWER	-	-	-	560	0.6	0.13	1/6	1633	-	-	-	-	-	-	-	-	-	3.5	-	-	15	120	1	60	-	x	FMS	29	NOTE 2
GEF-1	GREENHECK	G-095-VG	ROOF MOUNTED GENERAL EXHAUST FAN - LOCKER ROOM	-	-	-	750	0.5	0.15	1/6	1684	-	-	-	-	-	-	-	-	-	3.5	-	-	15	120	1	60	-	x	FMS	29	NOTE 2
GEF-2	GREENHECK	G-095-VG	ROOF MOUNTED GENERAL EXHAUST FAN - LOCKER ROOM	-	-	-	750	0.5	0.15	1/6	1684	-	-	-	-	-	-	-	-	-	3.5	-	-	15	120	1	60	-	x	FMS	29	NOTE 2

NOTES:

1. PROVIDE WITH:
   - VIBRATION ISOLATION HANGERS
   - DISCONNECT SWITCH
   - WALL THERMOSTAT

   SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. PROVIDE WITH:
   - PROVIDE WITH DISCONNECT SWITCH
   - ECM MOTOR WITH POTENTIOMETER SPEED CONTROLLER
   - MOTORIZED DAMPER
   - BIRD SCREEN
   - ROOF CURB

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

HEAT RECOVERY SCHEDULE - JANE BALL ES

UNIT TAG	MIXED SUPPLY AIR						RETURN AIR						EXHAUST AIR						OUTSIDE AIR						HEAT WHEEL DISCHARGE						REMARKS
	CFM	SUMMER DB	SUMMER WB		WINTER DB	WINTER WB	CFM	SUMMER DB	SUMMER WB		WINTER DB	WINTER WB	CFM	SUMMER DB	SUMMER WB		WINTER DB	WINTER WB	CFM	SUMMER DB	SUMMER WB		WINTER DB	WINTER WB	CFM	SUMMER DB	SUMMER WB		WINTER DB	WINTER WB	
RT-1	4,400	77.9	64.6	F	58.2	-	F	2,215	75	62.4	F	72	55.7	F	2,185	89.2	71.6	F	16.2	16.1	F	2,185	95	75	F	-10	-11	F	2,185	80.8	66.7	F	44.2	38.3	F	-

GRILLE, REGISTER & DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL NO.	DESCRIPTION	AIR PATTERN	MOUNTING	SIZE	TYPE OF CONTROL	REMARKS
A4	NAILOR	6500-O	SUPPLY CEILING DIFFUSER	4-WAY	2' X 2' LAY-IN PANEL	SEE PLANS	O.B.D.	-
R1	NAILOR	6145H-O	RETURN/EXHAUST REGISTER	LOUVERED GRILLE	LAY-IN PANEL	SEE PLANS	O.B.D.	-

* ALL DIFFUSERS AND REGISTERS SHALL HAVE A WHITE FINISH UNLESS OTHERWISE NOTED

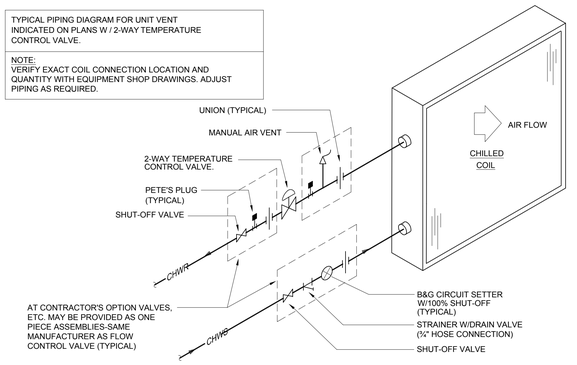
AD-3

CHILLED WATER HEATING COIL PIPING DIAGRAM

SCHEMATIC ONLY

TYPICAL PIPING DIAGRAM FOR UNIT VENT INDICATED ON PLANS W / 2-WAY TEMPERATURE CONTROL VALVE.

NOTE:
VERIFY EXACT COIL CONNECTION LOCATION AND QUANTITY WITH EQUIPMENT SHOP DRAWINGS. ADJUST PIPING AS REQUIRED.

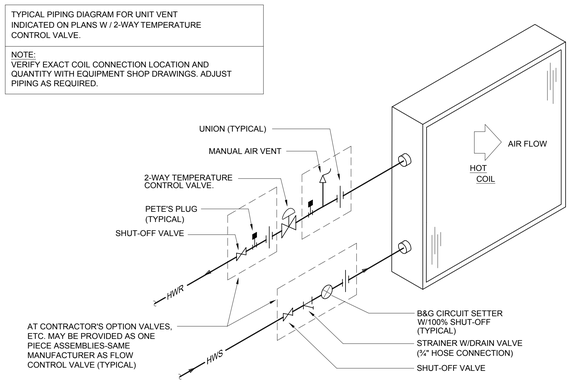


HOT WATER HEATING COIL PIPING DIAGRAM

SCHEMATIC ONLY

TYPICAL PIPING DIAGRAM FOR UNIT VENT INDICATED ON PLANS W / 2-WAY TEMPERATURE CONTROL VALVE.

NOTE:
VERIFY EXACT COIL CONNECTION LOCATION AND QUANTITY WITH EQUIPMENT SHOP DRAWINGS. ADJUST PIPING AS REQUIRED.



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DAVID G. JANNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-3	11/03/23	ADDENDUM NO. 3

DRAWING
MECHANICAL NOTES, SCHEDULES AND DETAILS

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
M-200

GENERAL NOTES

A. WORK SHALL COMPLY WITH LOCAL, MUNICIPAL, AND STATE HVAC CODES.

B. COMMISSIONING: THE OWNER WILL HIRE A COMMISSIONING AGENCY (CXA) TO COMMISSION THE MECHANICAL SYSTEMS FOR THIS PROJECT. THE CXA WILL DEVELOP A COMMISSIONING PLAN THAT WILL OUTLINE THE REQUIREMENTS AND PROCEDURES FOR EACH COMMISSIONED SYSTEM AND WILL BE RESPONSIBLE THAT THE COMMISSIONING MEETS THE REQUIREMENTS OF THE CURRENT ENERGY CODE. THE COMMISSIONING PLAN WILL BE DEVELOPED AFTER CONTRACTS HAVE BEEN AWARDED AND PRIOR TO COMPLETION OF THE SYSTEMS TO BE COMMISSIONED.

C. THE SCOPE OF WORK SPECIFIED HEREIN AND IN THE SPECIFICATIONS SHALL BE PERFORMED UNDER THE DIRECTION OF A CONSTRUCTION MANAGER. REFER TO THE CONSTRUCTION MANAGER'S INSTRUCTIONS AND DIRECTIONS FOR DETAILS RELATING TO THE EXACT SCOPE OF EACH TRADE. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND CONSTRUCTION MANAGER'S DIRECTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR CLARIFICATION. THE ARCHITECT/ENGINEER'S DECISION SHALL BE FINAL.

D. LAYOUT IS DIAGRAMMATIC AND CONTRACTOR SHALL INSTALL DUCTWORK, PIPING AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS. REVIEW PROJECT SPECIFICATIONS BEFORE STARTING ANY WORK. SUBMIT SHOP DRAWINGS OF WORK AS PER SPECIFICATIONS.

E. LAYOUT WORK TO AVOID CONFLICTS BETWEEN DUCTWORK, LIGHTING, CEILINGS, PIPING AND BUILDING STRUCTURE.

F. COORDINATE EQUIPMENT ELECTRICAL REQUIREMENTS (VOLTAGES, PHASE, LOAD, ETC.) BEFORE ORDERING ANY EQUIPMENT.

G. COORDINATE EXACT LOCATION OF CEILING REGISTERS, GRILLES AND DIFFUSERS WITH LIGHTING LAYOUT, SPRINKLER HEADS, AND CEILING GRID. SEE ARCHITECTURAL REFLECTED CEILING PLAN. VERIFY EXACT LOCATION IN FIELD PRIOR TO INSTALLATION. VERIFY CEILING STYLES AND TYPES BEFORE ORDERING REGISTERS, GRILLES AND DIFFUSERS. PROVIDE APPROPRIATE FRAME STYLES AS REQUIRED TO MATCH CEILING STYLE AND TYPES. SET ADJUSTABLE BLADES AS REQUIRED FOR OPTIMUM AIR PATTERN AND TO PREVENT DRAFTS. THE MINIMUM DISTANCE BETWEEN SUPPLY DIFFUSERS/REGISTERS AND SMOKE OR HEAT DETECTORS IS TO BE A MINIMUM OF 3'. COORDINATE WITH FIRE ALARM SYSTEM AS REQUIRED.

H. ROUTE DUCTWORK AS HIGH AS POSSIBLE TO AVOID CONFLICTS WITH OTHER TRADES. ROUTE DUCTWORK BETWEEN AND THROUGH JOIST SPACES AND BETWEEN LIGHT FIXTURES AS REQUIRED. VERIFY CONDITIONS AND DUCTWORK ROUTING IN FIELD PRIOR TO INSTALLATION.

I. DUCTWORK, PIPING, EQUIPMENT, ETC. SHALL NOT BE SUPPORTED FROM THE BOTTOM CHORD OF ENGINEERED JOISTS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

J. ACOUSTICAL FLEXIBLE DUCTWORK AT THE INLET TO AIR DIFFUSERS MAY BE USED. FLEXIBLE CONNECTIONS SHALL BE 5'-0" MAXIMUM LENGTH, AND SHALL BE SUPPORTED WHERE REQUIRED TO PREVENT MOVEMENT.

K. PROVIDE MANUAL BALANCING DAMPERS AT EACH LOW PRESSURE SUPPLY AIR, RETURN AIR AND EXHAUST DUCTWORK TAKE-OFF INCLUDING TAKEOFFS TO EACH AIR DISTRIBUTION DEVICE. DAMPERS SHALL HAVE LOCKING QUADRANT REGULATORS WITH SPRING LOADED END BEARING. INSTALLATION SHALL BE RATTLE FREE. BE RESPONSIBLE FOR LOCATING BALANCING DEVICES AND COORDINATE LOCATIONS FOR TESTING AND BALANCING.

L. VERIFY EXACT THERMOSTAT AND SENSOR LOCATIONS IN FIELD PRIOR TO ROUGH-IN OR INSTALLATION. CONTROL WIRING TO BE ROUTED IN CONDUIT.

M. COORDINATE PHASING OF WORK AND PROVIDE TEMPORARY EQUIPMENT, DUCTWORK AND PIPING AS REQUIRED FOR THE IMPLEMENTATION OF WORK WHILE MAINTAINING SERVICES TO PORTIONS OF BUILDING TO REMAIN OCCUPIED.

N. SCHEDULE WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES. REQUIRED SHUTDOWN OF EXISTING UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL. NOTIFY OWNER'S REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO ANY SHUTDOWN OF EXISTING MECHANICAL SYSTEMS.

O. VERIFY IF EXISTING ASBESTOS WILL BE ENCOUNTERED PRIOR TO STARTING ANY WORK. IF ASBESTOS IS PRESENT, THE OWNER WILL PROVIDE FOR THE REMOVAL OF ANY MATERIAL CONTAINING ASBESTOS. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.

P. VISIT SITE PRIOR TO BIDDING TO FULLY DETERMINE FIELD CONDITIONS AND TO VERIFY EXISTING MECHANICAL SYSTEMS INCLUDING QUANTITIES AND LOCATIONS TO DETERMINE THE FULL EXTENT OF NEW AND DEMOLITION WORK.

Q. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. ANY EXISTING CONDUIT, PIPING, DUCTWORK, EQUIPMENT, ETC., SHALL BE REWORKED AS REQUIRED TO AVOID CONFLICTS WITH THE INSTALLATION OF THE NEW MECHANICAL SYSTEMS. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE ANY CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED.

R. EXISTING INFORMATION IDENTIFIED ON THE CONTRACT DOCUMENTS IS SCHEMATIC ONLY. BE RESPONSIBLE TO PROPERLY ADDRESS EXISTING CONDITIONS FOR A COMPLETE AND PROPER INSTALLATION OF NEW SYSTEMS. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE REVIEWED AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.

S. ANY HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPORTED IN WRITTEN FORM FOR REVIEW AND DIRECTION. OTHERWISE, BE RESPONSIBLE FOR ANY AND REQUIRED CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION.

T. EXISTING EQUIPMENT SHALL REMAIN PROPERTY OF THE OWNER AND OWNER SHALL DETERMINE IF EQUIPMENT IS TO BE STORED ON SITE AT OWNER SELECTED LOCATION OR IF EQUIPMENT IS TO BE ABANDONED OR REMOVED FROM SITE.

U. PATCH EXISTING CEILING, FLOOR, WALL AND ROOF OPENINGS AND SURROUNDING FINISHES RESULTING FROM REMOVAL OF EXISTING MATERIALS SO THAT FINISH WILL MATCH EXISTING IN SURROUNDING AREAS.

V. PROVIDE FINISHING OF EXISTING CEILING, FLOOR, AND WALL SURFACES AT LOCATIONS AFFECTED BY REMOVAL OF EXISTING MATERIALS SO THAT NEW FINISH WILL MATCH EXISTING IN SURROUNDING AREAS.

W. REMOVE EXISTING CEILINGS AND LIGHT FIXTURES REQUIRED FOR INSTALLATION OF NEW WORK. REINSTALL CEILING AND LIGHT FIXTURES UPON COMPLETION OF WORK. REPLACE DAMAGED CEILING MATERIALS TO MATCH EXISTING.

X. PROVIDE CUTTING, CORE DRILLING AND PATCHING OF EXISTING WALL AND ROOF CONSTRUCTIONS REQUIRED FOR THE INSTALLATION OF NEW DUCTWORK, PIPING AND EQUIPMENT. SEAL PENETRATIONS THROUGH WALL AND ROOF STRUCTURE WATERTIGHT AND WITH AN APPROVED FIRE STOPPING MATERIAL, INCLUDING APPROVED FIRE RATED SLEEVE.

Y. PROVIDE STEEL LINTELS FOR NEW OPENINGS THROUGH EXISTING MASONRY WALLS AS REQUIRED. LINTELS TO BE AS FOLLOWS UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS: TWO (2) 3-1/2"x3-1/2"x 5/16" ANGLES WITH 5/16" PLATE (1/2" LESS THAN WALL THICKNESS). PROVIDE W8x10 WITH 5/16" PLATE FOR OPENINGS ABOVE 48" WIDE.

Z. MOUNT NEW THERMOSTATS IN EXISTING SPACES AT LOCATIONS VACATED BY OLD THERMOSTAT WHEN POSSIBLE. REUSE EXISTING CONDUIT IF FOUND TO BE IN GOOD CONDITION.

AA. PROVIDE AN APPROVED SURFACE MOUNTED RACEWAY AS REQUIRED FOR INSTALLATION OF NEW THERMOSTATS ON EXISTING WALLS TO CONCEAL CONTROL WIRING. SUBMIT SAMPLE OF RACEWAY FOR REVIEW. COORDINATE ROUTING OF RACEWAYS WITH EXISTING BUILDING CONDITIONS AND ADJUST ROUTING TO AVOID CONFLICTS AND TO MINIMIZE THE AMOUNT OF EXPOSED SURFACE MOUNTED RACEWAY.

BB. REPAIR AND/OR REPLACE DAMAGED PIPE INSULATION THAT OCCURS AS THE RESULT OF THIS CONSTRUCTION.

CC. MINIMUM SIZE FOR HOT WATER HEATING SUPPLY AND RETURN PIPING TO BE 3/4".

DD. JANE BALL ELEM ONLY: DRAIN AND REFILL EXISTING PIPING SYSTEMS AS REQUIRED FOR INSTALLATION OF NEW WORK. PROVIDE CHEMICAL TREATMENT, GLYCOL/ANTI-FREEZE MIXTURE FOR WATER PIPING SYSTEM ACCORDING TO OWNER'S REQUIREMENTS AFTER SYSTEM IS FILLED AND VENTED. PROPERLY VENT PIPING SYSTEMS.

EE. PROVIDE APPURTENANCES (I.E. EXPANSION COMPENSATORS, FLEXIBLE CONNECTIONS, EXPANSION LOOPS, JUNCTION BOXES, ETC.) NECESSARY TO CROSS EXPANSION JOINTS IN BUILDING CONSTRUCTION WITH CONDUIT, PIPING, DUCTWORK, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND QUANTITY OF EXPANSION JOINTS.

FF. REMOVE EXISTING DOORS AND PORTIONS OF WALLS, CEILINGS, ETC. AS REQUIRED TO INSTALL NEW MATERIAL AND EQUIPMENT IN EXISTING LOCATIONS. REBUILD WALLS, CEILINGS AND REINSTALL EXISTING DOORS AS REQUIRED AFTER INSTALLATION OF NEW MATERIAL AND EQUIPMENT. PATCH AND FINISH TO MATCH EXISTING.

GG. WORK ON THE ROOF SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE EXISTING ROOFING MANUFACTURER'S RECOMMENDATIONS. ROOF WORK SHALL BE PERFORMED BY CERTIFIED INSTALLERS AS TO MAINTAIN THE EXISTING ROOF WARRANTY. PRIOR TO THE START OF ANY WORK ON THE ROOF, EXISTING ROOF SHALL BE INSPECTED AND CERTIFIED BY THE EXISTING ROOFING MANUFACTURER. ANY DEFICIENCIES WHICH OCCUR BETWEEN THE INITIAL AND FINAL INSPECTIONS SHALL BE CORRECTED AT NO COST TO THE OWNER. CORRECTIVE MEASURES SHALL BE PERFORMED BY CERTIFIED INSTALLERS TO MAINTAIN THE EXISTING ROOF WARRANTY.

HH. ADJUST NEW ROOF-TOP EQUIPMENT LOCATIONS BEING INSTALLED ON EXISTING ROOF AS REQUIRED TO COORDINATE WITH EXISTING STRUCTURAL CONDITIONS. PROVIDE OUTSIDE AIR-INTAKE EXTENSIONS WITH DUCTWORK SUPPORTS AS REQUIRED TO MAINTAIN MINIMUM 10 FEET CLEARANCE BETWEEN OUTSIDE AIR INTAKE OPENING AND ANY EXHAUST OR VENT LOCATION. EXISTING CEILING SPACES ARE MINIMAL HEIGHT - COORDINATE DUCTWORK INSTALLATION BETWEEN STRUCTURAL JOISTS, CEILING AND LIGHT FIXTURES AS REQUIRED. PROVIDE INCREASE HEIGHT ROOF CURBS AS REQUIRED TO DUCTWORK TRANSITIONS TO ALLOW INSTALLATION BETWEEN EXISTING STRUCTURAL COMPONENTS.

II. PROVIDE ROOF PIPING SUPPORTS FOR PIPING ROUTED ALONG ROOF. SINGLE PIPE SUPPORTS TO BE EQUIVALENT TO PORTABLE PIPE HANGER, INC. TYPE PP-10 ROLLER GUIDE SUPPORT. MULTIPLE PIPE SUPPORTS TO BE EQUIVALENT TO PORTABLE PIPE HANGER, INC. TYPE PP10 CHANNEL GUIDE SUPPORT. SUPPORTS ARE TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS. SUPPORTS TO BE COMPATIBLE WITH AND MAINTAIN THE INTEGRITY (AND EXISTING WARRANTY IF APPLICABLE) OF THE EXISTING OR NEW ROOF SYSTEM.

SYMBOLS/ABBREVIATIONS

SYMBOL	DESCRIPTION
	EXISTING DUCTWORK
	NEW DUCTWORK
	DUCTWORK TO BE REMOVED
	DUCT TRANSITION
	CAP EXISTING DUCTWORK AS REQUIRED
	NEW DUCTWORK TO TIE INTO EXISTING DUCTWORK
	SQUARE TO ROUND TRANSITION
	EXISTING DUCTWORK
	NEW DUCTWORK
	DUCTWORK TO BE REMOVED
	DUCT TRANSITION
	CAP EXISTING DUCTWORK AS REQUIRED
	NEW DUCTWORK TO TIE INTO EXISTING DUCTWORK
	SUPPLY OR OUTSIDE AIR DUCT DOWN
	SUPPLY OR OUTSIDE AIR DUCT UP
	RETURN OR EXHAUST OR RELIEF DUCT DOWN
	RETURN OR EXHAUST OR RELIEF DUCT UP
	RETURN OR EXHAUST REGISTER
	SUPPLY AIR DIFFUSER

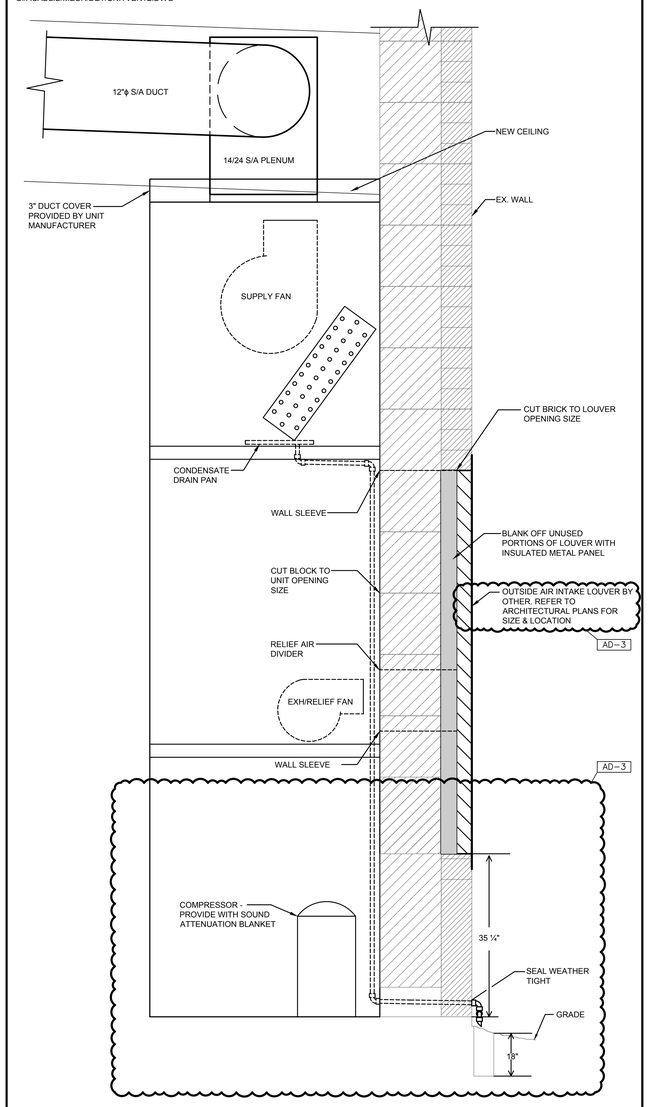
SYMBOL	DESCRIPTION
	FLEXIBLE DUCTWORK
	FLEXIBLE DUCTWORK
	AUTOMATIC (MOTORIZED) DAMPER
FD	FIRE DAMPER
	SEE SCHEDULES
	SHEET NOTE
T	THERMOSTAT - ADJUSTABLE
T_G	THERMOSTAT w/ COVER GUARD
SD	DUCT SMOKE DETECTORS
D CO_2	DUCT MOUNTED CARBON DIOXIDE SENSOR
H	HUMIDISTAT
HWS	HOT WATER SUPPLY PIPING
HWR	HOT WATER RETURN PIPING
CHWS	CHILLED WATER SUPPLY PIPING
CHWR	CHILLED WATER RETURN PIPING
	PIPING TO BE REMOVED
	EXISTING PIPING
	PIPE TURNED UP
	PIPE TURNED DOWN
	PIPE EXPANSION
G	GAS PIPING
	SHUT-OFF VALVE
	GAS COCK
	PRESSURE REDUCING VALVE

ABBREVIATIONS	DESCRIPTION
AD	AUTOMATIC (MOTORIZED) DAMPER
CAT	CONDENSING AIR TEMPERATURE
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CTE	CONNECT TO EXISTING
DN.	DOWN
DV	DRAIN VALVE
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EDB	ENTERING DRY BULB TEMPERATURE
ERV	ENERGY RECOVERY VENTILATOR
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
G	NATURAL GAS
GPM	GALLONS PER MINUTE
HP	HORSE POWER
HZ	HERTZ
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	1,000 BTU/HOUR
MC	MECHANICAL CONTRACTOR
MOD	MODULATING
NTS	NOT TO SCALE
O/A	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
R/A	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
RT	ROOF TOP UNIT
S/A	SUPPLY AIR
SHC	SENSIBLE HEAT CAPACITY
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UV	UNIT VENTILATOR
WC	WATER COLUMN
WPD	WATER PRESSURE DROP

TYPICAL SELF-CONTAINED UNIT VENTILATOR SECTION

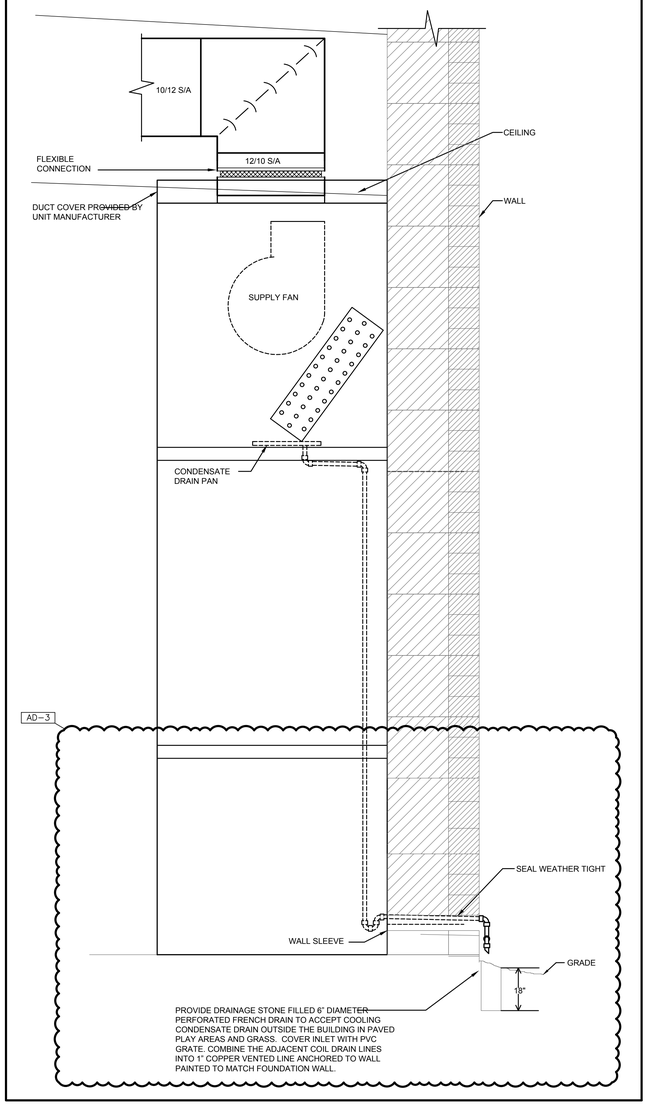
N.T.S.

G:/ACADLIB/MECH/DET/UNITVENT2.DWG



TYPICAL UNIT VENTILATOR SECTION

N.T.S.



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PROJECT

HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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PROJECT 23-140
DATE 10/13/23
COORDINATED BY JC
DRAWN BY JC,RH
CHECKED BY DJ

DAVID G. JARNEY REGISTERED NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-2	10/30/23	ADDENDUM NO. 2
AD-3	11/03/23	ADDENDUM NO. 3

DRAWING
MECHANICAL NOTES, SCHEDULES AND DETAILS

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

SHEET
M-201

PLUMBING FIXTURE SCHEDULE

TAG NO.	FIXTURE/EQUIPMENT TYPE	FIXTURE/EQUIPMENT DESCRIPTION	FIXTURE/EQUIPMENT MANUFACTURER AND MODEL NO.	ACCEPTABLE MANUF.	FIXTURE VALVE/FAUCET TYPE	FIXTURE VALVE/FAUCET TYPE	ACCEPTABLE MANUF.	ACCESSORIES/REMARKS (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)
WC-1	WATER CLOSET	VITREOUS CHINA, FLOOR MOUNTED	ZURN Z5655-BWL1	NOTE 1	BATTERY SENSOR FLUSH VALVE, 1.6 GPF	ZURN ZTR6200-WS1	NOTE 2	ZURN Z5955SS-EL SEAT
WC-2	WATER CLOSET	VITREOUS CHINA, FLOOR MOUNTED ADA	ZURN Z5665-BWL 1	NOTE 1	BATTERY SENSOR FLUSH VALVE, 1.6 GPF	ZURN ZTR6200-WS1	NOTE 2	ZURN Z5955SS-EL SEAT
UR-1	URINAL	VITREOUS CHINA, WALL MOUNTED, ADA	ZURN Z5755-U	NOTE 1	BATTERY SENSOR FLUSH VALVE, 0.125 GPF	ZURN ZTR6203-ULF	NOTE 2	-
L-1	LAVATORY	VITREOUS CHINA, WALL MOUNTED, 20"x18" ADA	ZURN Z5344	NOTE 1	0.5 GPM-BATTERY SENSOR,4" CENTERS	ZURN Z6915-XL-ALTMV-1	NOTE 3	PROVIDED WITH THERMOSTATIC MIXING VALVE. MCGUIRE PW-2150-WC 1-1/2" PROWRAP, MCQUIRE H2167CCLK SUPPLIES
SH-1	SHOWER	-	-	-	1.5 GPM SHOWER HEAD AND MIXING VALVE	BRADLEY WS-1WCA-6"-0"-TMV-S15-LHV-SD-SHH-VS	NOTE 3	THERMOSTATIC MIXING VALVE
FD-1	FLOOR DRAIN	CAST IRON BODY, ADJUSTABLE 6"x6" NICKEL BRONZE TOP	ZURN Z415S	-	- AD-3			HANDLE,ROOF SCREWS
-	-	-	-	-	-	-	-	-

NOTE #1: AMERICAN STANDARD, KOHLER, ZURN, SLOAN

NOTE #2: SLOAN, TOTO

NOTE #3: SLOAN,DELTA, T&S BRASS, CHICAGO FAUCET CO.

GENERAL NOTES

A. WORK SHALL COMPLY WITH LOCAL, MUNICIPAL, AND STATE PLUMBING CODES.

B. THE SCOPE OF WORK SPECIFIED HEREIN AND IN THE SPECIFICATIONS SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER - REFER TO THE SCOPE OF WORK FOR EACH TRADE. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND CONSTRUCTION MANAGERS SCOPE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR CLARIFICATION. THE ARCHITECT/ENGINEER'S DECISION SHALL BE FINAL.

C. LAYOUT IS DIAGRAMMATIC. INSTALL PIPING AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS. REVIEW PROJECT SPECIFICATIONS BEFORE STARTING ANY WORK. SUBMIT SHOP DRAWINGS OF WORK AS PER SPECIFICATIONS.

D. COORDINATE PHASING OF WORK AND PROVIDE TEMPORARY PIPING AND SERVICES AS REQUIRED FOR THE IMPLEMENTATION OF WORK WHILE MAINTAINING SERVICES TO PORTIONS OF BUILDING TO REMAIN OCCUPIED.

E. FIELD VERIFY IF EXISTING ASBESTOS WILL BE ENCOUNTERED PRIOR TO STARTING ANY WORK. IF ASBESTOS IS PRESENT, THE OWNER WILL PROVIDE FOR THE REMOVAL OF ANY MATERIAL CONTAINING ASBESTOS. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.

F. LAYOUT WORK TO AVOID CONFLICTS BETWEEN DUCTWORK, LIGHTING, CEILINGS, PIPING AND BUILDING STRUCTURE.

G. SCHEDULE WORK TO AVOID DOWNTIME AND INCONVENIENCE TO OWNER. OWNER'S EXISTING FACILITY SHALL REMAIN IN OPERATION AT TIMES. REQUIRED SHUTDOWN OF EXISTING UTILITIES SHALL BE SCHEDULED WITH OWNER'S OPERATING PERSONNEL. NOTIFY OWNER'S REPRESENTATIVE 48 HOURS IN ADVANCE PRIOR TO ANY SHUTDOWN OF EXISTING PLUMBING SYSTEMS.

H. VERIFY LOCATION AND ELEVATION OF PLUMBING EQUIPMENT, FIXTURES, PIPING, PANELS, ETC. EXPOSED WITHIN OCCUPIED SPACES BEFORE THE START OF ANY ROUGH-IN OR INSTALLATION.

I. VISIT SITE PRIOR TO BIDDING TO DETERMINE FIELD CONDITIONS. VERIFY EXISTING INTERIOR AND EXTERIOR PLUMBING SYSTEMS TO VERIFY QUANTITIES AND LOCATIONS OF EXISTING SYSTEMS TO DETERMINE EXTENT OF NEW AND DEMOLITION WORK. VERIFY EXISTING INTERIOR AND EXTERIOR STORM AND SANITARY PIPING SYSTEMS AS TO ROUTING, SIZE AND INVERT ELEVATION PRIOR TO ANY INSTALLATION OF NEW AND REMOVAL OF ANY EXISTING.

J. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. ANY EXISTING CONDUIT, PIPING, DUCTWORK, EQUIPMENT, ETC., SHALL BE REWORKED AS REQUIRED TO AVOID CONFLICTS WITH THE INSTALLATION OF THE NEW PLUMBING SYSTEMS. NO EXTRAS WILL BE ALLOWED AFTER BIDDING FOR ANY REWORK OF EXISTING FIELD CONDITIONS TO RESOLVE ANY CONFLICTS OR NOT FULLY UNDERSTANDING THE SCOPE OF THE WORK REQUIRED. EXISTING EQUIPMENT, FIXTURES AND PIPING, ETC., SHALL BE REMOVED AS NOTED ON DRAWINGS AND AS REQUIRED TO MEET NEW SCOPE OF WORK.

K. REMOVE EXISTING EQUIPMENT, FIXTURES, PIPING, ETC. PRESENTLY SERVING AREAS THAT ARE BEING RENOVATED AND THAT ARE NOT REQUIRED TO STAY IN SERVICE. NO EQUIPMENT, FIXTURES, PIPING, SUPPORTS, HANGERS, ETC, IS TO BE LEFT ABANDONED. VERIFY QUANTITY, LOCATION AND ELEVATION OF EXISTING TO BE REMOVED IN FIELD. REMOVE EXISTING ABANDONED EQUIPMENT, FIXTURES AND PIPING IN AREAS THAT ARE TO BE RENOVATED.

L. EXISTING INFORMATION IDENTIFIED ON THE CONTRACT DOCUMENTS IS SCHEMATIC ONLY AS AN AID TO THE CONTRACTOR. PROPERLY ADDRESS EXISTING CONDITIONS FOR A COMPLETE AND PROPER INSTALLATION OF NEW SYSTEMS. EXISTING EQUIPMENT NOT IDENTIFIED SHALL BE REPORTED IN WRITTEN FORM FOR REVIEW AS TO WHETHER THE EQUIPMENT SHALL REMAIN AND BE RECONNECTED TO THE NEW SERVICES, BE RELOCATED, BE ABANDONED, ETC.

M. ANY HIDDEN CONDITIONS IDENTIFIED THROUGH THE COURSE OF CONSTRUCTION SHALL BE IMMEDIATELY REPORTED IN WRITTEN FORM FOR REVIEW AND DIRECTION. FAILURE TO DO SO SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR ANY REQUIRED CHANGES AND COSTS TO CORRECT SAID HIDDEN CONDITION.

N. EXISTING EQUIPMENT SHALL REMAIN PROPERTY OF THE OWNER AND OWNER SHALL DETERMINE IF CONTRACTOR IS TO STORE EQUIPMENT ON SITE AT OWNER SELECTED LOCATION OR IF CONTRACTOR IS TO ABANDON OR REMOVE EQUIPMENT FROM SITE.

O. PATCH EXISTING CEILING, FLOOR, WALL AND ROOF OPENINGS AND SURROUNDING FINISHES RESULTING FROM REMOVAL OF EXISTING MATERIALS AND EQUIPMENT SO THAT FINISH WILL MATCH EXISTING IN SURROUNDING AREAS.

P. REMOVE EXISTING CEILINGS REQUIRED FOR INSTALLATION OF NEW WORK. REINSTALL CEILING UPON COMPLETION OF WORK. REPLACE DAMAGED CEILING MATERIALS TO MATCH EXISTING.

Q. PROVIDE CUTTING, CORE DRILLING AND PATCHING OF EXISTING FLOOR AND WALL CONSTRUCTIONS REQUIRED FOR THE INSTALLATION OF NEW PIPING. SEAL PENETRATIONS THROUGH FLOOR, WALL AND ROOF STRUCTURE WATERTIGHT AND WITH AN APPROVED FIRE STOPPING MATERIAL, INCLUDING APPROVED FIRE RATED SLEEVE.

R. PROVIDE CUTTING, TRENCHING AND PATCHING OF EXISTING FLOOR SLAB REQUIRED FOR THE INSTALLATION OF NEW UNDERGROUND PIPING.

S. CUT OR CHANNEL INTO EXISTING WALL CONSTRUCTIONS AS REQUIRED FOR INSTALLATION OF NEW PIPING WITHIN EXISTING WALLS. PATCH WALL SURFACES AND FINISH AS REQUIRED TO MATCH EXISTING CONDITIONS.

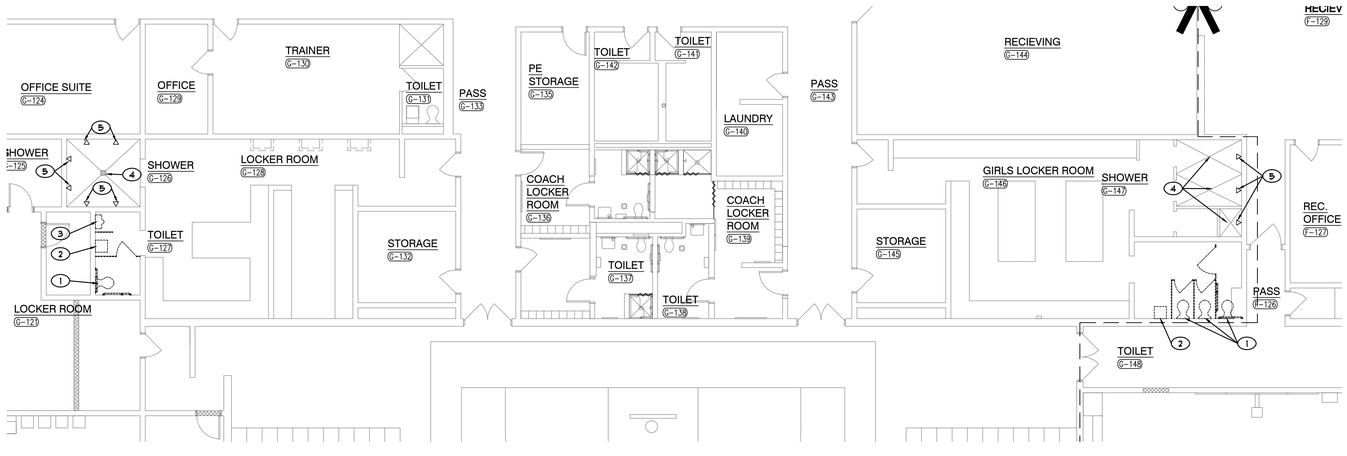
T. PROVIDE ROUGH-IN AND FINAL CONNECTIONS TO PLUMBING EQUIPMENT AND FIXTURES. SET FIXTURES/EQUIPMENT AND FURNISH AND INSTALL NECESSARY FITTINGS, TRAPS, STOPS, ETC. AS REQUIRED.

U. PLUMBING PIPING ROUTING TO BE FIELD COORDINATED WITH NEW AND EXISTING HVAC DUCTWORK, HVAC PIPING, FIRE PROTECTION PIPING, ELECTRICAL AND STRUCTURE TO ENSURE NO CONFLICTS WILL OCCUR DUE TO INTERFERENCE.

V. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR FINAL MOUNTING HEIGHTS OF PLUMBING FIXTURES.

W. PROTECT NEW AND EXISTING DRAIN OPENINGS AND SANITARY LINES DURING CONSTRUCTION TO PREVENT BLOCKAGE. ROD-OUT EXISTING SANITARY PIPING. PIPING SHALL BE FREE OF BLOCKAGE.

X. REPAIR AND/OR REPLACE DAMAGED PIPE INSULATION THAT OCCURS AS THE RESULT OF THIS CONSTRUCTION.



LOCKER ROOM PLUMBING DEMOLITION PLAN

1/8" = 1'-0"

DEMOLITION SHEET NOTES

1. REMOVE EXISTING WATER CLOSET AND ASSOCIATED SANITARY, VENT AND DOMESTIC WATER CONNECTIONS COMPLETE AS REQUIRED.
2. REMOVE EXISTING LAVATORY AND ASSOCIATED SANITARY, VENT AND DOMESTIC WATER CONNECTIONS COMPLETE AS REQUIRED.
3. REMOVE EXISTING URINAL AND ASSOCIATED SANITARY, VENT AND DOMETIC WATER CONNECTIONS COMPLETE AS REQUIRED.
4. REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED VENT PIPING AND CAP EXISTING SANITARY BELOW FLOOR AIR/WATERTIGHT COMPLETE AS REQUIRED.
5. REMOVE EXISTING SHOWER AND FAUCET AND ALL ASSOCIATED HOT/COLD WATER, SANITARY AND VENT PIPING COMPLETE AS REQUIRED.

LOCKER ROOM PLUMBING PLAN

1/8" = 1'-0"

SHEET NOTES

1. NEW FLOOR MOUNTED WATER CLOSET. CONNECT TO EXISTING SANITARY, VENT AND DOMESTIC WATER COMPLETE AS REQUIRED.
2. NEW WALL MOUNTED LAVATORY. CONNECT TO EXISTING SANITARY, VENT AND DOMESTIC WATER CONNECTIONS COMPLETE AS REQUIRED.
3. NEW WALL MOUNTED URINAL. CONNECT TO EXISTING SANITARY, VENT AND DOMESTIC WATER CONNECTIONS COMPLETE AS REQUIRED.
4. NEW FLOOR DRAIN AND ALL ASSOCIATED VENT PIPING AND SANITARY BELOW FLOOR AIR/WATERTIGHT COMPLETE AS REQUIRED.
5. NEW SHOWER AND FAUCET AND ALL ASSOCIATED HOT/COLD WATER, SANITARY AND VENT PIPING COMPLETE AS REQUIRED.

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PROJECT

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PROJECT 23-143
DATE 10/13/23
COORDINATED BY JC
DRAWN BY JC,RH
CHECKED BY DJ

REGISTERED DAVID G. JANNEY NO. 10302590 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-3	11/03/23	ADDENDUM NO. 3

DRAWING
LOCKER ROOM PLUMBING DEMOLITION/NEW PLAN

PROJECT
HANOVER CSC - JANE BALL ES RENOVATIONS AND HS IMPROVEMENTS

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SHEET P110