ADDENDUM NO. 4

June 11, 2021

HANOVER COMMUNITY SCHOOL CORPORATION - NEW RESOURCE CENTER AND RELATED WORK
Cedar Lake, IN 46303

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 May 17, 2021 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 pages ADD 4-1 through ADD 4-3 and attached Addendum No. 4 from Gibraltar Design dated June 11, 2021 and consisting of 7 pages, Specification Section 11 11 44 - Maintenance and Mechanics Equipment, Specification Section 08 11 13 - Standard Steel Doors and Frames, and 46 Drawing Sheets.

A. SPECIFICATION SECTION 00 00 10 - TABLE OF CONTENTS

1. **Add:**

   Specification Section 11 11 44 - Maintenance and Mechanics Equipment

2. **Replace:**

   Specification Section 08 11 13 - Standard Steel Doors and Frames

A. SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY

1. BID CATEGORY NO. 1 - SITEWORK/UTILITES/PAVING

a. **Revise:**

Clarification No. 10
The **Bid Category No. 1 Contractor** is responsible to provide all earthwork required for their scope of work including establishing the building pad extended to 5' around the building perimeter to within 12" below the finished floor elevation at slab type "A" and 10" below the finished floor elevation at slab type "B". The **Bid Category No. 2 Contractor** is responsible to provide excavation and backfill required to provide foundations, structural and architectural work including thickened slabs, recessed/raised slabs on grade, etc. from these elevations. The **Bid Category No. 2 Contractor** shall stockpile excavation spoils at agreed upon areas outside the building footprint for re-use or hauling off-site by the Upper Elementary School Site Contractor.

b. **Add:**

Clarification No. 14
Reference Drawings Sheet C-1.1; All mass excavation and grading was provided by a previous package to an elevation of 749.5. The **Bid Category No. 1 Contractor** shall verify all grades as required for their respective scope of work.

2. BID CATEGORY NO. 2 - GENERAL TRADES

a. **Revise:**

Clarification No. 6
The **Bid Category No. 1 Contractor** is responsible to provide all earthwork required for their scope of work including establishing the building pad extended to 5' around the building perimeter to within 12" below the finished floor elevation at slab type "A" and 10" below the finished floor elevation at slab type "B". The **Bid Category No. 2 Contractor** is responsible to provide excavation and backfill required to provide foundations, structural and architectural work including thickened slabs, recessed/raised slabs on grade, etc. from these elevations. The **Bid Category No. 2 Contractor** shall stockpile excavation spoils at agreed upon areas outside the building footprint for re-use or hauling off-site by the Upper Elementary School Site Contractor.

b. **Add:**

Specification Section 11 11 44 - Maintenance and Mechanics Equipment

Clarification No. 14
Reference Specification Section 11 11 44 Maintenance and Mechanics Equipment; All compressors under this section shall be provided by The **Bid Category No. 9 Contractor.** The **Bid Category No. 9 and 10 Contractors** shall make final connections as required. All remaining requirements under this section shall be provided by the **Bid Category No. 2 Contractor.**

Clarification No. 15
The **Bid Category No. 2 Contractor** shall provide all ancillary components and work that may not be shown on the documents but is required by the bus wash manufacturer to provide a complete and fully operational system. All equipment labeled as "by bus wash manufacturer" is to be provided by the **Bid Category No. 2 Contractor**.

3. **BID CATEGORY NO. 9 - MECHANICAL**

a. **Add:**

Clarification No. 5
Reference Specification Section 11 11 44 Maintenance and Mechanics Equipment; All compressors under this section shall be provided by The **Bid Category No. 9 Contractor.** The **Bid Category No. 9 and 10 Contractors** shall make final connections as required. All remaining requirements under this section shall be provided by the **Bid Category No. 2 Contractor.**

4. **BID CATEGORY NO. 10 - ELECTRICAL**

a. **Add:**

Clarification No. 7
Reference Specification Section 11 11 44 Maintenance and Mechanics Equipment; All compressors under this section shall be provided by The **Bid Category No. 9 Contractor.** The **Bid Category No. 9 and 10 Contractors** shall make final connections as required. All remaining requirements under this section shall be provided by the **Bid Category No. 2 Contractor.**

ADDENDUM FOUR

Addendum Four (AD.04) to the drawings and specifications prepared by Gibraltar Design and The Skillman Corporation for **Hanover CSC New Resource Center and Related Work** 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 BID CATEGORY NO. Documents. All Contractors shall acknowledge on their bid form that they have received this Addendum, Addendum One, Addendum Two, and Addendum Three, and include the appropriate content of same within their bid proposal.

SPECIFICATIONS

1. Specification Section 00 01 00 Table of Contents

A. Add new Specification Sections as follows:

1. 11 11 44 Maintenance and Mechanics Equipment

2. Specification Section 04 20 00 Unit Masonry

A. Revise Paragraph 2.6 A.3 to read:

"3. Products:

a. Type "A": Belden 481-483 Velour, 4"X4"X12", utility.

b. Type "B": Not Used.

c. Type "C": Glen-Gery/Sioux City, Dekota Velour, 4"X4"x12", utility.

d. Type "D": Glen-Gery/Sioux City, Kodiac Velour, 4"X4"X12", utility."

3. Specification Section 08 11 13 Standard Steel Doors and Frames

A. Substitute New Specification Section 08 11 13, Standard Steel Doors and Frames, included in this addendum. Note added door panel information.

4. Specification Section 08 71 00 Door Hardware

A. Hardware Group No. 24 – Remove narration stating "Operation: Pressing either actuator will cycle automatic operator and momentarily open door."

5. Specification Section 10 14 00 Signage

A. Add new Paragraph 2.1A.3. as follows:

"3. Letter/Number size is 12-inches high, cut aluminum plate, with minimum of 3-studs for anchoring to substrate, baked enamel finish. Color to be selected from manufacturers standard colors.

B. Add to Paragraph 2.1.B. just after the word 'Provide' the following: "cut Aluminum Letters....."

C. Delete Paragraph 2.1.B.1. in its entirety, adjust other numbers accordingly.

D. Add new Paragraph 2.D.1. as follows:

"1. Letter/Number size is to be 8-inches high, white vinyl, for text and number refer to front sheet for address of complex."

6. Specification Section 11 11 26 Vehicle Wash System

A. Add Paragraph 2.2. B. and 2.2. C. to read:

"B. Ross & White Company, Cary, Illinois.

C. InterClean Equipment, LLC, Ypsilanti, Michigan."

B. Add new Paragraph 2.4. as follows:

"2.4. Accessories

A. Vehicle Wash System Supplier to provide the following equipment sized as required for complete system operation:

1. Air Compressor System, Air Compressor Control Panel and all support equipment as required for complete operational system.
2. Water Softener System: Provide Size of water softener unit to operate with once-a-week refilling of unit for minimum forty (40) washing of buses each week for operation of the system.
3. Water Heater Unit: Provide a water heater unit sized for full system operation and for duration of standard daily operations for a facility of this size.
4. Water Pump: Provide a water pump unit sized for full system operation and for duration of standard daily operations for a facility of this size."

C. Clarification: Piping to be utilized in Bus Wash System is required to be Copper as specified in Construction Documents

7. Specification Section 11 11 33 In-Ground Vehicle Lifts

A. Add Paragraph 2.4. A. 3. and 2.4. A.4. to read:

"3. Control: Provide wire and remote-control operators.

4. Size: Twenty-Four (24) Feet."

B. Revise Paragraph 2.4. B. 1. to read:

"1. Provide Two-Post Configuration #FD2343 with addition of AK-HTA70-2PK Adaptor Kit."

8. Specification Section 11 11 44 Maintenance and Mechanics Equipment

A. Add Specification Section 11 11 44, Maintenance and Mechanics Equipment, included in this Addendum, to the Project Manual.

9. Specification Section 13 33 00 Pre-Engineered Metal Canopies

A. Add Paragraph 2.1 B. to read:

"B. TFC Canopy, Garrett, Indiana."

10. Specification Section 13 34 19 Canopies

A. Paragraph 1.1 A.: Add "Light Fixtures" directly after "...metal roof".

B. Add Paragraph 2.2 C. to read:

"C. Light Fixtures: Canopy manufacturer's standard 2X2 LED fixtures, total 8 fixtures centered over bus pathway, equally spaced."

C. Add Paragraph 2.3 C.2 to read:

"2. Painted Finish: Provide for three (3) colors for fascia, fascia trim and soffit panels either in fluorocarbon or baked enamel paint, as selected by Architect from manufacturer's standard colors."

D. Paragraph 3.2 L.: Add second sentence to paragraph to read: "Contractor is to run conduit and wiring to connect power to canopy manufacturer's light fixtures."

11. Specification Section 13 34 19 Pre-Engineered Buildings

A. Add Paragraphs 2.1 A.6 and 2.1 A.7 to read:

"6. Schulte Building Systems, Hockley, Texas.

7. CECO Building Systems, Tremont, Illinois."

12. Specification Section 13 33 00 Pre-Engineered Metal Canopies

A. Add Paragraph 2.1 B. to read:

"B. TFC Canopy, Garrett, Indiana."

13. Specification Section 22 05 00 Plumbing General Conditions

A. Add Paragraph 2.19 Compressed Air Piping to read:

"A. Compressed air piping shall be Schedule 40, Steel Pipe conforming to ASTM A53/A53M, Type E or S, Grade B, back or hot dip zinc coated with ends threaded according to ASME B1.20.1.

1. Compressed Air Fittings:

a. Steel Nipples: ASTM A733, made of ASTM A53/A53M or ASTM A106, Schedule 40,galvanized seamless steel pipe. Include ends matching joining method.

b. Malleable-Iron Fittings: ASME B16.3, Class 150 or 300, threaded.
c. Malleable-Iron Unions: ASME B16.39, Class 150 or 300, threaded.
d. Steel Flanges: ASME B16.5, Class 150 or 300, carbon steel, threaded.
e. Wrought-Steel Butt-Welding Fittings: ASME B16.9, Schedule 40.
f. Steel Flanges: ASME B16.5, Class 150 or 300, carbon steel."

14. Specification Section 23 88 00 Ductwork

A. Paragraph 2.4 D.1: Change ductwork lining thickness to 1-1/2".

15. Specification Section 26 06 30 Standby Power Generator System

A. Section 10.3 C.: Add Generac to list of acceptable manufacturers.

DRAWINGS

16. Sheet C-2.1

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

1. Proposed flagpole on a 10'X10' concrete with two lights. Coordinate lighting with MEP plans.

a. Fuel depot location is revised.

b. Removed radii of pavement at the bus rolling gate entrance.

17. Sheet C-3.1

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

1. Along the south line of the property, the water line of 400'-8" DIWM CL 52 is corrected to 400'-10" DIWM CL 52.

18. Sheet C-4.1

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

1. Two (2) manholes, MH #44A and MH 44#B are added along the 12" RCP storm line, south of the Administration Center.

19. Sheet C-6.0

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

1. Fuel Depot Detail is added.

20. Sheet S-001

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

1. Information added to the "Structural Legend" – F – 2", 20 Gauge composite galvanized metal floor deck and direction of span. (Two or more span loading condition).
2. Lintel Schedule added to identify all brick lintels required for the Resource Center building.

21. Sheet SB102

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

1. Revised foundation section cut from 12/S-301 to 16/S-302; noting the foundation for buildings B & C only need be 8" CMU full grouted versus 14" CMU.

22. Sheet SB103

A. Refer to revised, full size drawing included in this Addendum for added column piers and footing pads at grids 6 & 7/H.

23. Sheet S-301

A. On Detail Cut 17/S-301 the pier size is identified on the drawing by showing a section through the pier near the top and refer to 15A/S-301. Therefore, along the PEMB typical framed bay 17/S-301 is used and along end bays 16/S-301 is required (See Plans

24. Sheet S-302

A. Refer to revised, full size drawing included in this Addendum for added Detail 16/S-302 that shows 8" CW fully grouted foundation wall on footing.

25. Sheets A-101

A. Refer to A-102 for correct wall types.

26. Sheets A-102, A-103, A-104, A-105

A. Refer to Four (4) revised, full size drawings included in this Addendum for revisions.

27. Sheet A-109

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

28. Sheet A-405

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

29. Sheet A-410

A. All soldier course to be 12" high in lieu of 8". Limestone windowsill on section 1/A-410 is to increase in height, refer to detail 1 on A-603 for dimensions.

30. Sheet A-602

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

31. Sheet A-603

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

32. Sheet A-701

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

33. Sheet A-705

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

34. Sheet A-804

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

35. Sheet A-810

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

36. Sheet A-830

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

37. Sheet A-904

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

38. Sheet M-101

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

1. Add base bid note to UH-12 and UH-13

39. Sheet M-104

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

1. Add base bid note to UH-12 and UH-13

40. Sheet M-601

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

1. Adjust remarks for resource center mechanical equipment schedule.

41. Sheet M-602

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

1. Adjusted heat recovery schedule.

42. Sheet M-603

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

1. Added emergency generator to Resource Center gas schedule

43. Sheet P-001

A. Refer to revised, full size drawing included in this Addendum for the following revisions to Plumbing Fixture and Equipment Schedule:

1. Revised Sinks S-1 andS-2 model numbers.
2. Remove WS-1 from equipment schedule.

44. Sheet P-102

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

1. Revised OS-2 symbol.

45. Sheet P-103

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

1. Remove WS-1 from equipment schedule.

46. Sheet P-111

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

1. Clarified length of trench drains in garage.
2. Added domestic water piping in bus wash bay.
3. Revised size of cold water piping to bus wash equipment.

47. Sheet P-112

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

1. Revised symbol for OS-2.

48. Sheet P-113

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

1. Revised symbol for OS-1.

49. Sheet P-502

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

1. Revised domestic water pipe size to bus wash bay.

50. Sheet E-002

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

1. Added two flagpole lights.
2. Revised sheet notes and general notes.
3. Added/revised fuel pump station electrical components (associated panel schedules have been updated).

51. Sheet EL-101 through EL-104

A. Refer to (4) four revised, full size drawings included in this Addendum for the following revisions:

1. Revised general note #3 to remove the reference to UL924 devices and include inverters or integral batteries.

52. Sheet EP-103

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

1. Added General Note #5 for bus lift coordination.
2. Revised Sheet Note #4 to refer to technology drawings for conduit information.

53. Sheet EP-104

A. Refer to revised, full size drawing included in this Addendum for the following revisions:
1. Revised Sheet Note #8 to refer to technology drawings for conduit information.

54. Sheet E-502

A. Refer to revised, full size drawing included in this Addendum for the following revisions:
1. Added flagpole light to luminaire schedule.

55. Sheet E-505

A. Refer to revised, full size drawing included in this Addendum for the following revisions:
1. Added flood light detail.

56. Sheet TS-001

A. Refer to revised, full size drawing included in this Addendum for the following revisions:
1. Location of the Middle connection.
2. Rerouted conduits.

57. Sheet T-101

A. Refer to revised, full size drawing included in this Addendum for the following revisions:
1. Addition of Plan Note 1 for overhead door controller.
2. Addition of Card Reader for man door to A112.

58. Sheet T-104

A. Refer to revised, full size drawing included in this Addendum for the following revisions:
1. Omit Card Reader for Door D-106b.
2. Omit Card Reader for Door D-134b.
3. Relocation of Card Reader for Door D-131a.

Pages 1 through 7, inclusive, Two Specification Sections, 08 11 13 and 11 11 44, and Forty-six (46) full size drawings constitute the total makeup of **Addendum Four**.

GIBRALTAR DESIGN

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SECTION 08 11 13
STANDARD STEEL DOORS AND FRAMES

1 General

1.1 Section Includes

A. Steel doors, panels, and frames.

1.2 Related Sections

A. Section 08 14 16 - Wood Doors.

B. Section 08 71 00 - Door Hardware.

C. Section 08 81 00 - Glazing.

D. Section 09 91 00 - Painting: Field painting of doors and frames.

1.3 References

A. ANSI A250.8 – SDI-100, Standard Steel Doors and Frames.

B. ANSI A250.11 – Erection Instructions for Steel Frames.

C. ASTM A366 – Steel, Sheet, Carbon, Cold-Rolled, Commercial Quality.

D. ASTM A568 – Steel, Sheet, Carbon, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, General Requirements.

E. ASTM A569 - Steel, Carbon (0.25 Maximum Percent), Hot-Rolled Sheet and Strip Commercial Quality.

F. ASTM A620 – Steel Sheet, Carbon, Cold-Rolled Drawing Quality, Special Killed.

G. ASTM A653 – Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

H. ASTM A924 – General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.

I. DHI - Door Hardware Institute: The Installation of Commercial Steel Doors and Steel Frames, Insulated Steel Doors in Wood Frames and Builder's Hardware.

1.4 Regulatory Requirements

A. Conform to applicable code for fire rated frames and doors.

1.5 Submittals

A. Submit shop drawings, product data, and manufacturer's installation instructions under provisions of Division 1.

1. Indicate frame configuration, anchor types and spacings, location of cutouts for hardware, reinforcement, and finish.

2. Indicate door elevations, internal reinforcement, closure method, and cut outs for glazing.

1.6 Quality Assurance

A. Conform to requirements of ANSI A250.8

1.7 Delivery, Storage, And Protection

A. Protect products under provisions of Division 1.

B. Protect doors and frames with resilient packaging.

2 Products

2.1 Standard Steel Doors and Frames - Acceptable Manufacturers

A. Ceco Door Division, Oak Brook, Illinois.

B. Curries, Mason City, Iowa.

C. Deansteel Manufacturing Inc., San Antonio, Texas.

D. Metal Products, Inc., Corbin, Kentucky.

E. Republic Builders Products Corporation, Jackson, Tennessee.

F. Steelcraft, Cincinnati, Ohio.

2.2 Materials

A. Steel:

1. Doors and Frames: Commercial quality, stretcher leveled flatness, cold rolled steel, ASTM A366 or ASTM A620 and A568 general requirements or Ggalvanized steel sheet, ASTM A924 or A653 hot dip galvanized to A60 minimum coating weight standard.

2. Internal Reinforcing: Hot rolled pickled and oiled steel, ASTM A569.

2.3 Doors And Frames

A. Interior Doors: ANSI A250.8, Level III (Extra Heavy Duty), Model 2 (Seamless); 16 gage minimum thickness.

B. Interior Frames: 16 gage thick material.

2.4 Door Core

A. Interior Doors: Impregnated cardboard honeycomb for interior doors.

2.5 Accessories

A. Jamb Anchors: Stirrup and strap type.

B. Glazing Stops: Rolled steel channel shape, mitered corners; prepared for countersunk style screws.

2.6 Protective Coatings

A. Bituminous Coating: As recommended by the manufacturer.

1. Touch up damaged areas in the field.

B. Primer: As recommended by the manufacturer.

1. Touch up damaged areas in the field.

2.7 Fabrication

A. Fabricate frames as welded unit for knock down field assembly type.

1. Grind all welds smooth.

2. Verify throat opening and wall thickness prior to fabrication.

3. Omit stops at transoms to receive louvers.

B. Fabricate doors to 1 3/4 inches in thickness.

C. Frabricate all exterior door leafs with solid welded cap flush with edge of door to prevent water from ponding on top of door leaf.

D. Fabricate transom panels same as doors.

E. Fabricate frames and doors with hardware reinforcement plates welded in place.

1. Frames:

a. Hinges: Minimum 7 gage by 1-1/4 inches by 10 inches long.

b. Strike: Minimum 12 gage.

c. Flush Bolts: Minimum 12 gage.

d. Closers: Minimum 12 gage.

e. All Other Surface Mounted Hardware: Minimum 12 gage.

2. Doors:

a. Hinges: Minimum 7 gage.

b. Lock Face and Flush Bolts: Minimum 14 gage.

c. All Other Surface Mounted Hardware: Minimum 16 gage.

3. Provide mortar guard boxes.

F. Prepare interior frames for silencers.

1. Provide three single rubber silencers for single doors on strike side.

2. Provide two single silencers on frame head at double doors.

G. Reinforce frames wider than 48 inches with roll formed steel channels fitted tightly into frame head, flush with top.

H. Attach fire rating label to each frame and door unit where required.

I. Close top edge of exterior door flush with inverted steel channel closure.

1. Weld in place.

2. Seal joints watertight.

J. Provide junction boxes in all exterior door frames and in interior door frames specifically noted on the Drawings to receive electric or electronic hardware.

1. Provide a junction box at the center hinge mounting location in the hinge jamb, the lock jamb behind the box strike, and 1/3 of the way from the latch side at the head.

2. Verify locations with the hardware supplier.

2.8 Finish

A. Primer: Baked on.

B. At frames installed in masonry, coat inside of frame profile in masonry with bituminous coating to a minimum thickness of 1/16 inch.

1. Coating may be shop or field applied.

3 Execution

3.1 Installation

A. Install frames in accordance with ANSI A250.11.

B. Install doors in accordance with DHI.

C. Coordinate with wall construction for anchor placement.

D. Install roll formed steel reinforcement channels between two abutting frames. Anchor to structure and floor.

E. Coordinate installation of glass and glazing.

1. Install glazing beads on corridor side of frame where possible.

F. Install sound isolating doors in accordance with the manufacturer's recommendations.

3.2 Tolerances

A. Maximum Diagonal Distortion: 1/16 inch measured with straight edge, corner to corner.

3.3 Adjusting

A. Adjust hardware for smooth and balanced door movement.

END OF SECTION

SECTION 11 11 44
MAINTENANCE AND MECHANICAL EQUIPMENT

1 General

1.1 Section Includes

A. Packaged Storage Units for Operations.

B. Compressors.

1.2 Submittals

A. Submit Shop Drawings and Product Data under provisions of Division 1.

B. Submit manufacturers product and installation instructions under provisions of Division 1.

1.3 Delivery, Storage, and Protection

A. Protect Products under provisions of Division 1.

2 Products

2.1 Equipment

A. Diesel Exhaust Fluid (DEF) Storage Units: Provide one (1) 330 gallon steel IBC Tote, double layered unit, caged on pallet, is to include compatible hose, dispenser and pump system for full operation.

1. Manufacturers/Suppliers: Innovative Fluids, LLC, The Cary Company, Transtore, Snyder Industries, and Metano.

2. Location: Mechanics Building, verify/coordinate exact location with Owner prior to delivery and installation.

B. Diesel Coolant Storage Units: Provide one (1) 350 gallon steel IBC Tote, double layered unit, caged on pallet, is to include compatible hose, dispenser and pump system for full operation.

1. Manufacturers/Suppliers: Innovative Fluids, LLC, The Cary Company, Transtore, Snyder Industries, and Metano.

2. Location: Mechanics Building, verify/coordinate exact location with Owner prior to delivery and installation.

C. Washer Fluid Storage Units: Provide one (1) 350 gallon steel IBC Tote, double layered unit, caged on pallet, is to include compatible hose, dispenser and pump system for full operation.

1. Manufacturers/Suppliers: Innovative Fluids, LLC, The Cary Company, Snyder Industries, and Metano.

2. Location: Mechanics Building, verify/coordinate exact location with Owner prior to delivery and installation.

D. Oil Storage and Waste Oil Units: Provide steel tanks, double layered unit, caged on pallet for raising off floor, is to include compatible hose, dispenser and pump system for full operation.

1. Manufacturers/Suppliers: Innovative Fluids, LLC, The Cary Company, Snyder Industries, and Metano.

2. Units Required: One (1) Vertical 500-gallon Container for 15W 40 Oil, One (1) Vertical 350-gallon for 15W 40 Oil, One (1) Vertical 350-gallon for Tranmission Fluid, and One (1) Vertical 330-gallon Waste Oil.

3. Location: Mechanics Building, verify/coordinate exact location with Owner prior to delivery and installation.

2.2 Compressors

A. Air Compressor Units: Provide Two (2) stationairy air-compressor units for the Mechanics Building, coordinate exact location for units with Owner.

1. Size: 120 Gallon Tank.

2. Electrical: 200/240 Volt, 3-Phase.

3. Motor: 10 HP.

4. CFM at Max Pressure: 72 to 75.

5. Max Pressure: 175 PSI.

B. Manufacturers: Provide from one of the following:

1. Ingersoll Rand.

2. Speedaire Grainger.

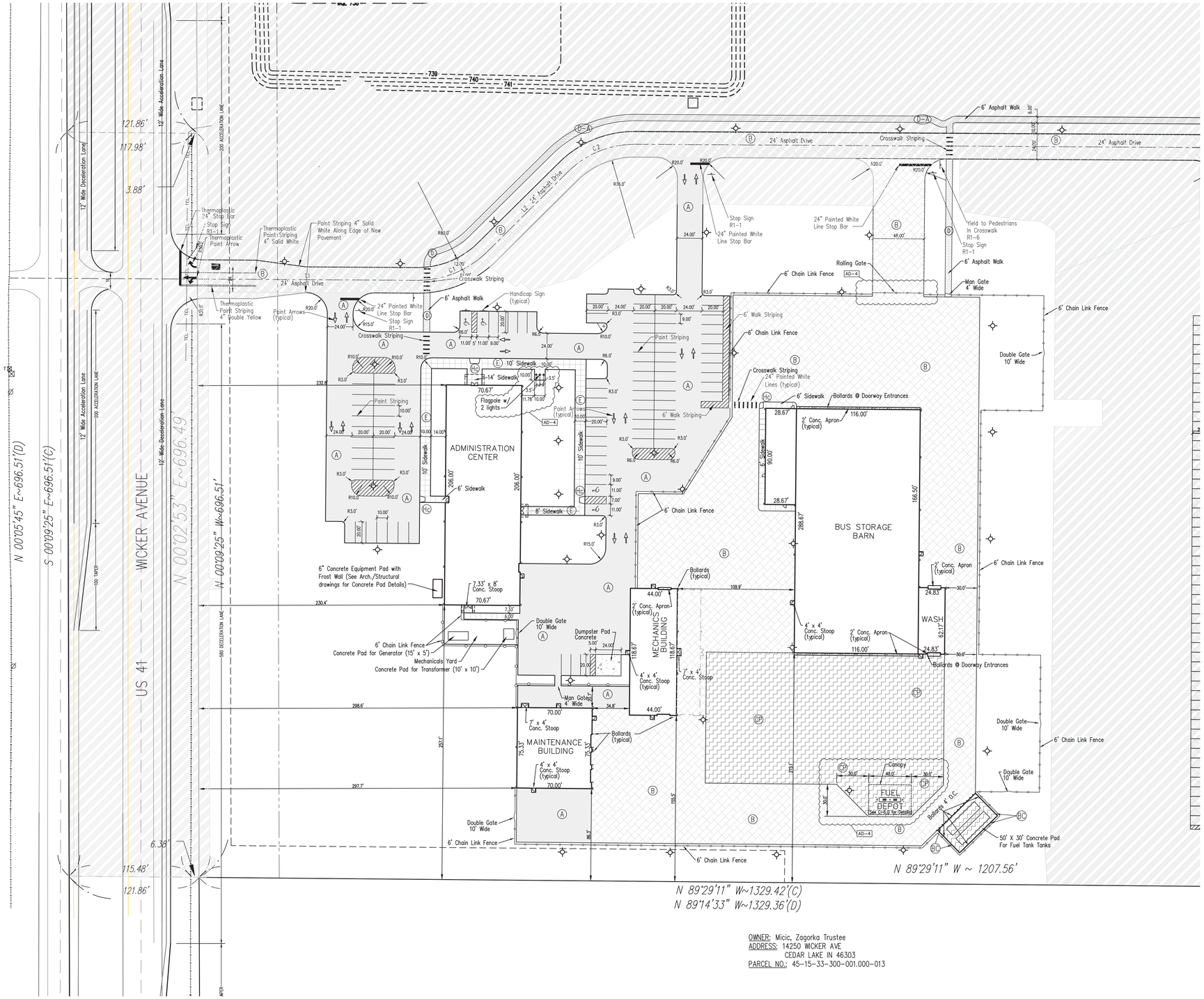
3 Execution

3.1 Installation

A. Install equipment and systems in accordance with Manufacturers specifications and recommendations.

B. Coordinate all system with other trades and Construction Manager.

END OF SECTION



OWNER: Micic, Zagorka Trustee
ADDRESS: 14250 WICKER AVE
CEDAR LAKE IN 46303
PARCEL NO.: 45-15-33-300-001.000-013

LEGEND:

PROPOSED

- (A) TYPICAL ASPHALT
- (B) HEAVY DUTY ASPHALT
- (CP) CONCRETE PAVEMENT
- (D) ASPHALT SIDEWALK — AD-1
- (E) CONCRETE SIDEWALK
- (BC) BARRIER CURB
- (Hc) HANDICAP ACCESS RAMP
- PAINTED LINES FOR PARKING/TRAFFIC
- LIGHT POLE
- STREET SIGN WITH MUTCD INDOT DESIGNATION
- HATCHED AREAS INDICATE NO WORK IN THIS AREA AND IS NOT PART OF THIS PROJECT.

NORTH
GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

TORRENGA ENGINEERING, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
907 RIDGE ROAD
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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 20-141
DATE 05/14/21
COORDINATED BY DCT
DRAWN BY DCT/NM/EM
CHECKED BY DCT

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

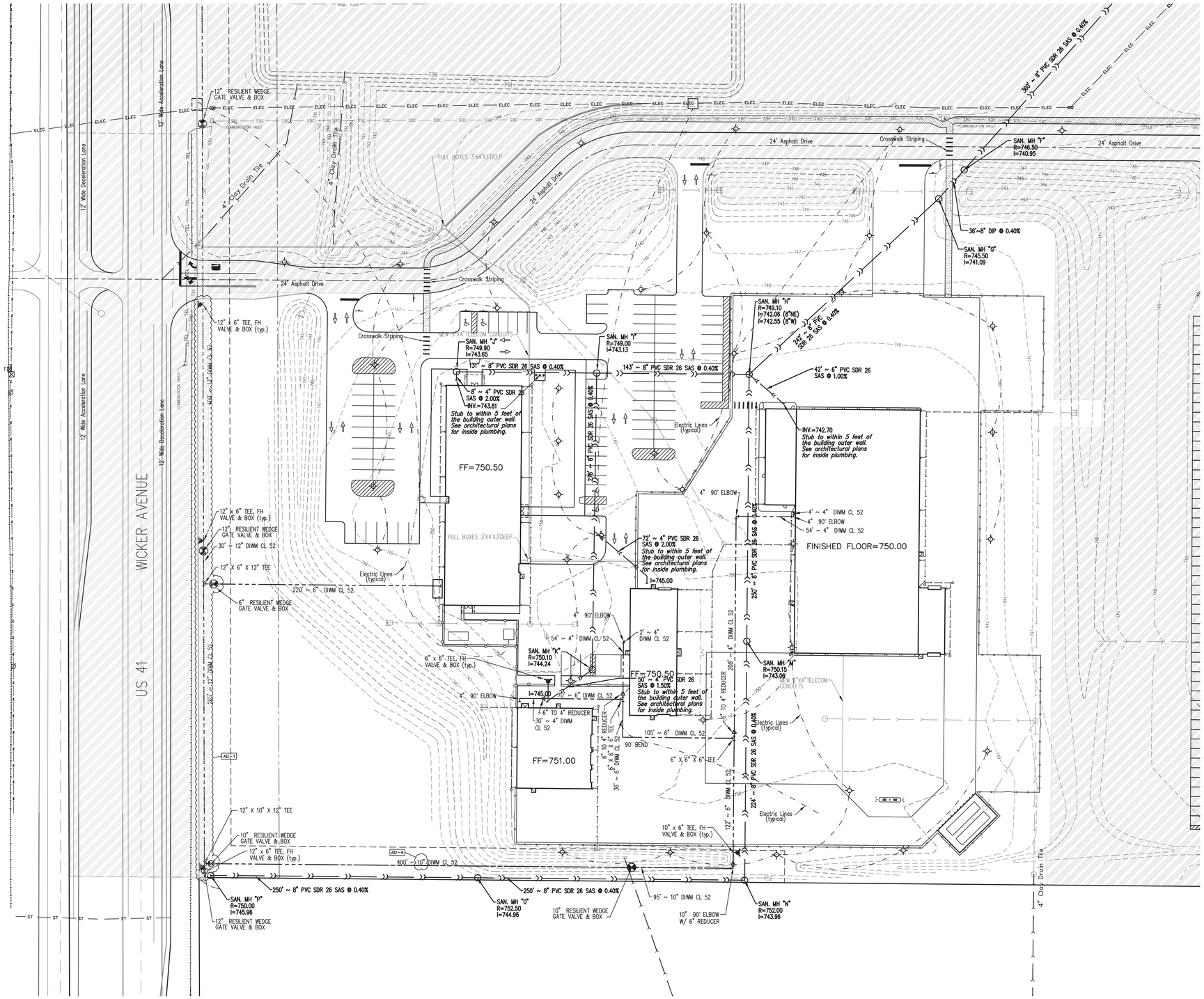
REVISIONS

MARK	DATE	ISSUED FOR
AD-1	05/27/2021	ADDENDUM NO. 1
AD-4	06/10/2021	ADDENDUM NO. 4

DRAWING
SITE PLAN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
C-2.1



LEGEND:

PROPOSED

- FIRE HYDRANT
- WATER GATE VALVE & BOX
- WATER MAIN
- SANITARY SEWERS
- STORM SEWERS
- CONTOURS

HATCHED AREAS INDICATE NO WORK IN THIS AREA AND IS NOT PART OF THIS PROJECT.

NORTH

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

Z:\2020-5032 Hanover Elementary School\dwg\2020-5032 Package - Resource Center.dwg 4/22/2021 3:57:07 PM CDT

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

TORRENGA ENGINEERING, INC.
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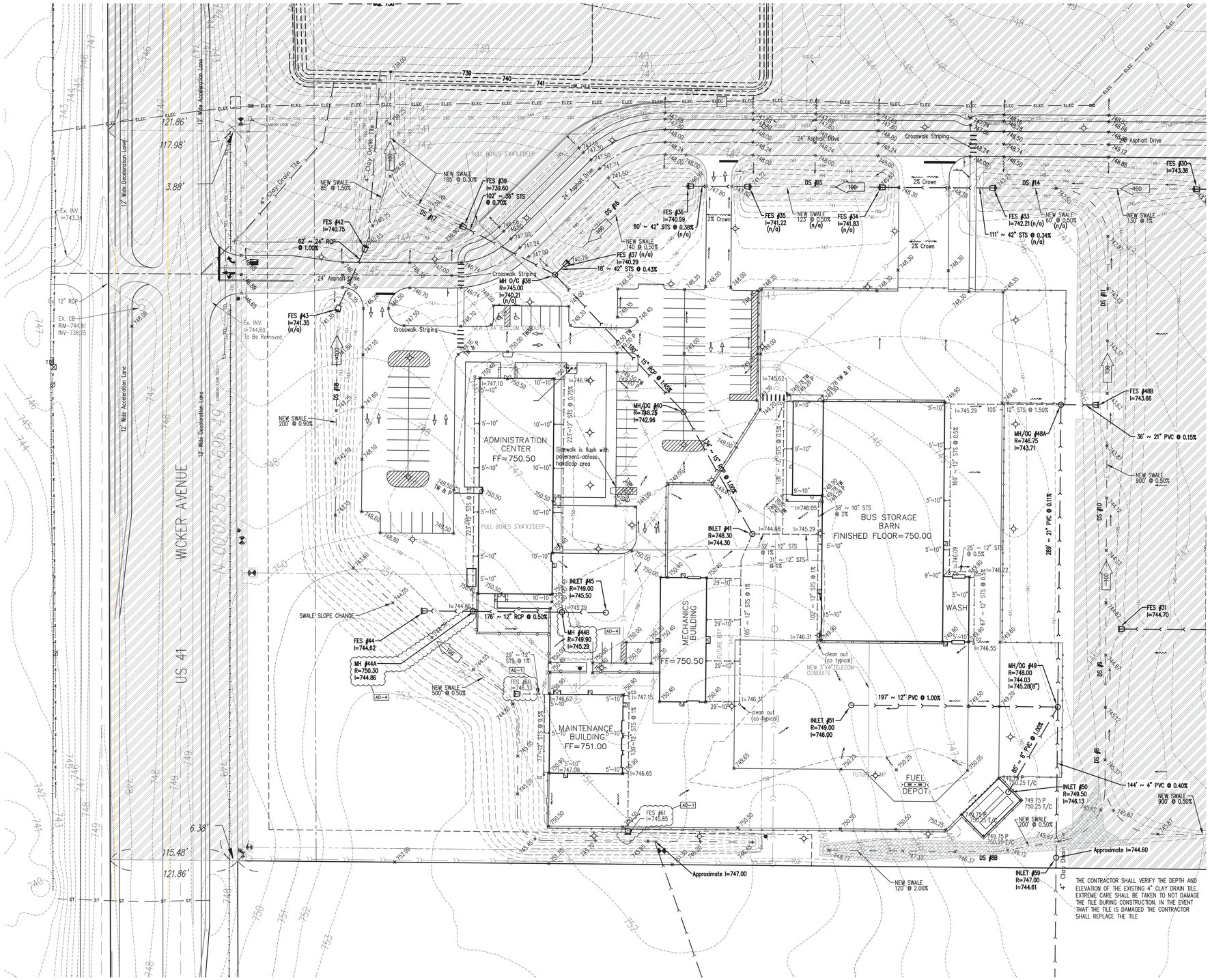
AD-1	05/27/2021	ADDENDUM NO. 1
AD-4	06/09/2021	ADDENDUM NO. 4

DRAWING
SANITARY SEWERS & WATER MAIN PLAN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
C-3.1



NOTE:

1) 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.

2) All drain tiles found to be actively servicing off-site/adjacent properties shall be tied into the proposed stormwater management system. All drain tiles that solely service the subject property or are considered no longer functioning shall be removed in their entirety. Non-active drain tiles shall not be abandoned in place.

3) The USDA Soil Survey shows Pewamo Silty Clay in some areas of the site. If unsuitable material is found in this area it shall be removed to an approved depth and replaced with acceptable sub base material.

4. The Contractor is responsible for all tree and shrub removal on the Project Site.

THE CONTRACTOR SHALL VERIFY THE DEPTH AND ELEVATION OF THE EXISTING 4" CLAY DRAIN TILE. EXTREME CARE SHALL BE TAKEN TO NOT DAMAGE THE TILE DURING CONSTRUCTION. IN THE EVENT THAT THE TILE IS DAMAGED THE CONTRACTOR SHALL REPLACE THE TILE

LEGEND
PROPOSED

- MANHOLE
- CATCH BASIN/INLET
- FIRE HYDRANT
- WATER VALVE
- GRADE PROPOSED
- FG=000.00 FINISHED GRADE
- STORM SEWER
- SANITARY SEWER
- WATER MAIN
- (n/a) CONSTRUCTED UNDER SEPARATE CONTRACT
- HATCHED AREAS INDICATE NO WORK IN THIS AREA AND IS NOT PART OF THIS PROJECT.

NORTH
GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

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PROJECT
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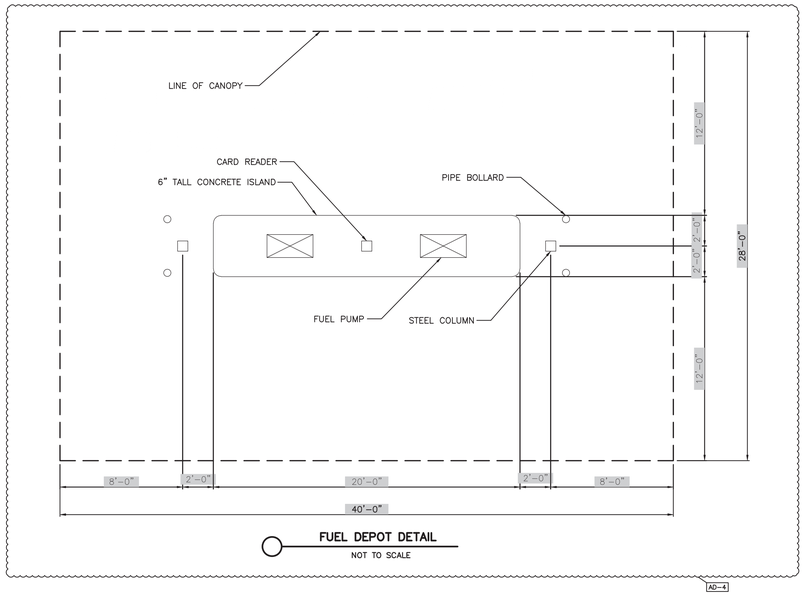
REVISIONS

MARK	DATE	ISSUED FOR
AD-1	05/27/2021	ADDENDUM NO. 1
AD-4	06/09/2021	ADDENDUM NO. 4

DRAWING
STORM SEWERS & GRADING PLAN

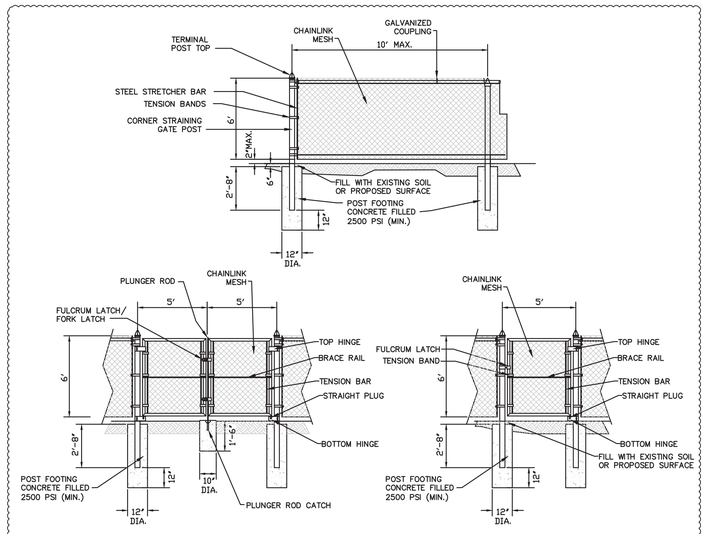
PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
C-4.1



FUEL DEPOT DETAIL
NOT TO SCALE

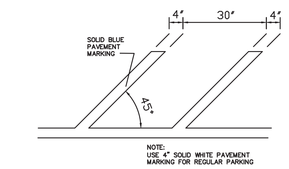
AD-4



NOTES:
1) THE ROLLING GATE ACROSS THE ENTRANCE AREA SHALL BE CONSTRUCTED OF CHAIN LINK DESIGNED TO FIT THE OPENING BY HOOVER FENCE COMPANY, 4521 WARREN RAVENNA ROAD, NEWTON FALLS, OH 44444. (330) 358-2335.

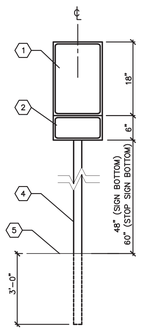
FENCE/GATE DETAIL
NOT TO SCALE

AD-1



NOTE:
USE 4" SOLID WHITE PAVEMENT MARKING FOR REGULAR PARKING

ACCESSIBILITY AND PARKING STRIPING DETAIL
NOT TO SCALE



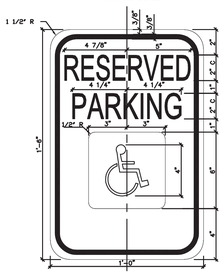
R8-3
NO PARKING

R1-1
STOP SIGN

KEYED NOTES

1. STANDARD USDOT R7 SIGN (BOTH SIDES-WHERE APPLICABLE).
2. SUPPLEMENTAL SIGNS, $-FINE AS APPLICABLE.
4. 2"x2" STEEL TUBE EXTENDED INTO GROUND, 3'-0"
5. FINISH GRADE.
6. R8-3 NO PARKING
7. R1-1 STOP SIGN

SIGN AND POST (FREE STANDING)
NOT TO SCALE

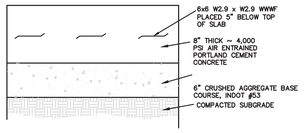


NOTE (R7 SIGN): THIS IS A STANDARD SIGN AND MAY BE ORDERED FROM ANY TRAFFIC SIGN SUPPLIER BY NUMBER. THE SIGN MUST BE SUPPLEMENTED WITH AMOUNT OF THE FINE FOR ILLEGALLY PARKING IN THE RESERVED SPACE(S) A MUNICIPALITY MAY IMPOSE. CONFIRM WITH LOCAL REGULATIONS.

ACCESSIBILITY SIGNAGE
NOT TO SCALE

Figure 43a
INTERNATIONAL SYMBOL OF ACCESSIBILITY PROPORTIONS
NOT TO SCALE

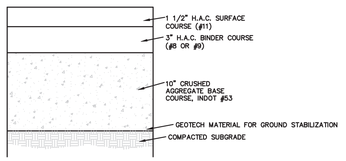
Figure 4b
INTERNATIONAL SYMBOL OF ACCESSIBILITY DISPLAY CONDITIONS
NOT TO SCALE



CONCRETE PAVEMENT SECTION DETAIL
NOT TO SCALE

NOTES:

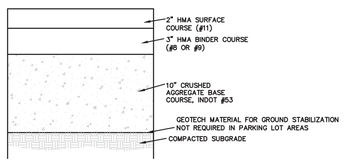
1. WHERE FILL IS REQUIRED, SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 METHOD OF TESTING.
2. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY PONDING PROBLEMS THAT MAY OCCUR AFTER THE FINAL SURFACE IS LAID.



NOTES:

1. WHERE FILL IS REQUIRED, SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 METHOD OF TESTING.

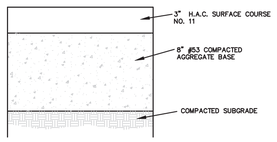
ASPHALT PAVEMENT SECTION
(NO SCALE)



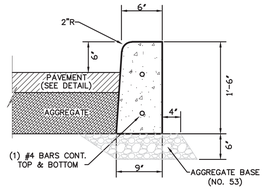
NOTES:

1. WHERE FILL IS REQUIRED, SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 METHOD OF TESTING.

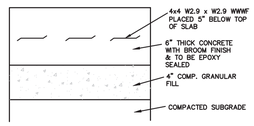
(PARKING LOT) HEAVY DUTY ASPHALT PAVEMENT SECTION
(NO SCALE)



LIGHT DUTY PAVEMENT (PLAY AREA) ASPHALT PAVEMENT SECTION
NOT TO SCALE



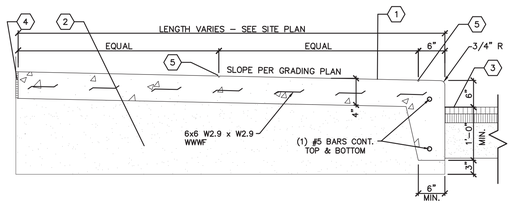
BARRIER CURB TYPE D
NOT TO SCALE



DUMPSTER PAD
NOT TO SCALE

NOTES:

1. WHERE FILL IS REQUIRED, SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 METHOD OF TESTING.
2. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY PONDING PROBLEMS THAT MAY OCCUR AFTER THE FINAL SURFACE IS LAID.



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)

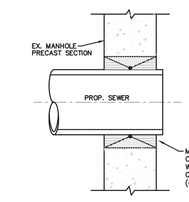
TYPICAL PERIMETER SIDEWALK
NOT TO SCALE

STORM SEWER STRUCTURE DATA

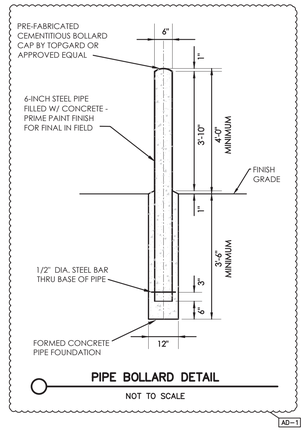
STRUCTURE NUMBER	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	CASTING TYPE	LENGTH & SLOPE	RIM ELEVATION	INVERT UPSTREAM	INVERT DOWNSTREAM	REMARKS
~~STR #1~~	~~Outlet Structure~~	~~Neenah R-1713~~	~~Ex. 12" RCP~~	~~744.66~~	~~739.51~~	~~738.15~~	~~Connect to EX. 12" RCP~~
~~STR #1A~~	~~FES~~		~~15' ~ 12" PVC @ 0.66%~~		~~740.10~~	~~740.05~~	~~Connect to STR#1~~
~~STR #2~~	~~Outlet Structure~~	~~Neenah R-1713~~	~~Ex. 12" RCP~~	~~745.66~~	~~740.03~~	~~740.28~~	~~Connect to EX. 12" RCP~~
~~STR #2B~~	~~FES~~		~~16' ~ 12" PVC @ 0.56%~~		~~741.06~~	~~740.97~~	~~Connect to STR#2~~
~~STR #3~~	~~Outlet Structure~~	~~Neenah R-1713~~	~~17' ~ 12" RCP @ 0.59%~~	~~741.90~~	~~736.13~~	~~735.97~~	~~Connect to FES #4~~
~~STR #3B~~	~~FES~~		~~16' ~ 12" PVC @ 0.56%~~		~~736.80~~	~~736.73~~	~~Connect to STR#3~~
~~STR #4~~	~~FES~~				~~736.37~~		
~~STR #5~~	~~FES~~				~~739.08~~		
~~STR #6~~	~~MH / OG~~	~~Neenah R-2561~~	~~335' ~ 36" RCP @ 0.56%~~	~~747.66~~	~~739.68~~	~~739.50~~	~~Connect to STR #5~~
~~STR #7~~	~~FES~~		~~16' ~ 24" RCP @ 1.00%~~		~~742.08~~	~~741.92~~	~~Connect to STR #6~~
~~STR #8~~	~~FES~~					~~744.67~~	
~~STR #9~~	~~MH / OG~~	~~Neenah R-2561~~	~~115' ~ 42" RCP @ 0.56%~~	~~747.58~~	~~746.04~~	~~744.75~~	~~Connect to STR #8~~
~~STR #10~~	~~FES~~					~~745.55~~	
~~STR #11~~	~~FES~~					~~746.57~~	
~~STR #12~~	~~FES~~		~~16' ~ 24" RCP @ 1.00%~~		~~746.54~~	~~746.12~~	~~Connect to STR #6~~
~~STR #13~~	~~FES~~					~~741.16~~	
~~STR #14~~	~~FES~~		~~58' ~ 24" RCP @ 0.70%~~		~~741.14~~	~~740.73~~	~~Connect to STR #13~~
~~STR #15~~	~~FES~~					~~741.55~~	
~~STR #16~~	~~MH / OG~~	~~Neenah R-2561~~	~~16' ~ 24" RCP @ 0.70%~~	~~746.66~~	~~744.69~~	~~744.58~~	~~Connect to STR #15~~
~~STR #17~~	~~MH / OG~~	~~Neenah R-2561~~	~~58' ~ 24" RCP @ 0.35%~~	~~746.66~~	~~742.07~~	~~741.99~~	~~Connect to STR #16~~
~~STR #18~~	~~Inlet~~	~~Neenah R-2561~~	~~70' ~ 18" RCP @ 0.78%~~	~~746.99~~	~~742.63~~	~~742.07~~	~~Connect to STR #17~~
~~STR #19~~	~~FES~~		~~58' ~ 24" RCP @ 0.32%~~		~~742.20~~	~~742.07~~	~~Connect to STR #17~~
~~STR #20~~	~~FES~~					~~744.50~~	
~~STR #21~~	~~MH / OG~~	~~Neenah R-2561~~	~~189' ~ 42" RCP @ 1.00%~~	~~750.00~~	~~745.00~~	~~744.00~~	~~Connect to STR #20~~
~~STR #22~~	~~FES~~					~~740.40~~	
~~STR #23~~	~~FES~~		~~90' ~ 15" RCP @ 1.00%~~		~~744.09~~	~~743.49~~	~~Connect to STR #22~~
~~STR #24~~	~~FES~~					~~747.55~~	
~~STR #25~~	~~FES~~					~~745.70~~	
~~STR #26~~	~~MH / OG~~	~~Neenah R-2561~~	~~178' ~ 12" RCP @ 0.56%~~	~~756.66~~	~~746.93~~	~~746.76~~	~~Connect to STR #25~~
~~STR #27~~	~~FES~~		~~90' ~ 15" RCP @ 0.78%~~		~~746.66~~	~~744.58~~	~~Connect to STR #26~~
~~STR #28~~	~~FES~~					~~744.50~~	
~~STR #29~~	~~FES~~		~~90' ~ 15" RCP @ 1.00%~~		~~744.16~~	~~743.96~~	~~Connect to STR #28~~
~~STR #30~~	~~FES~~				~~743.96~~		
~~STR #34~~	~~FES~~					~~744.78~~	
~~STR #35~~	~~Inlet~~	~~Neenah R-2070, Type D~~	~~333' ~ 42" RCP @ 0.39%~~	~~756.66~~	~~746.76~~	~~744.70~~	~~Connect to STR #34~~
~~STR #33~~	~~FES~~		~~111' ~ 42" STG @ 0.34%~~		~~746.21~~	~~744.83~~	~~Connect to STR #34~~
~~STR #34~~	~~FES~~					~~741.83~~	
~~STR #35~~	~~FES~~		~~60' ~ 42" STG @ 0.36%~~		~~741.22~~	~~740.60~~	~~Connect to STR #36~~
~~STR #36~~	~~FES~~					~~740.90~~	
~~STR #37~~	~~FES~~		~~19' ~ 42" STG @ 0.42%~~		~~740.29~~	~~740.21~~	~~Connect to STR #38~~
~~STR #38~~	~~MH / OG~~	~~Neenah R-2561~~	~~102' ~ 48" RCP @ 0.39%~~	~~745.66~~	~~740.21~~	~~739.80~~	~~Connect to STR #39~~
~~STR #39~~	~~FES~~					~~739.60~~	
STR #40	MH/OG	Neenah R-2070, Type D	180' ~ 15" RCP @ 1.45%	748.25	742.96	740.35	Connect to STR #38
STR #41	INLET INDOT Type R	INDOT Type 13	134' ~ 15" RCP @ 1.00%	748.30	744.30	742.96	Connect to STR #40
~~STR #42~~	~~FES~~					~~740.85~~	
STR #43	FES		60' ~ 24" RCP @ 1.00%		741.35	740.75	Connect to STR #42
STR #44	FES					744.62	
STR #45	Inlet	Neenah R-2070, Type D	176' ~ 12" RCP @ 0.50%	749.00	745.50	744.62	Connect to STR #44
STR #48B	FES					743.66	
STR #48A	MH/OG	Neenah R-2070, Type D	36' ~ 21" PVC @ 0.15%	746.75	743.71	743.66	Connect to STR #48B
STR #49	MH / OG	Neenah R-2561	289' ~ 21" PVC @ 0.11%	748.00	744.03	743.71	Connect to STR #48A
STR #50	INLET	Neenah R-2070, Type D	85' ~ 8" PVD @ 1.00%	749.50	746.13	745.28	Connect to STR #49
STR #51	INLET INDOT Type R	INDOT Type 13	197' ~ 12" PVC @ 1.00%	749.00	746.00	744.03	Connect to STR #49
~~STR #52~~	~~MH / OG~~	~~Neenah R-2561~~	~~301' ~ 21" RCP @ 0.14%~~	~~749.66~~	~~745.67~~	~~745.71~~	~~Connect to STR #51~~
~~STR #53~~	~~MH / OG~~	~~Neenah R-2561~~	~~267' ~ 18" RCP @ 0.18%~~	~~749.66~~	~~744.19~~	~~745.67~~	~~Connect to STR #52~~
~~STR #54~~	~~INLET~~	~~Neenah R-2561~~	~~80' ~ 12" RCP @ 0.38%~~	~~749.66~~	~~744.59~~	~~744.43~~	~~Connect to STR #53~~
~~STR #55~~	~~MH / OG~~	~~Neenah R-2561~~	~~116' ~ 15" RCP @ 0.39%~~	~~749.66~~	~~744.44~~	~~744.19~~	~~Connect to STR #53~~
~~STR #56~~	~~Inlet~~	~~Neenah R-2561~~	~~139' ~ 15" RCP @ 0.36%~~	~~748.66~~	~~744.75~~	~~744.44~~	~~Connect to STR #55~~
~~STR #57~~	~~Outlet Structure~~	~~Neenah R-1713~~	~~Ex. 18" RCP~~	~~744.66~~	~~739.09~~		~~Connect to EX. 18" RCP~~
~~STR #57B~~	~~FES~~		~~26' ~ 12" PVC @ 0.50%~~		~~739.00~~	~~738.99~~	~~Connect to STR #57~~
~~STR #58~~	~~Outlet Structure~~	~~Neenah R-1713~~	~~Ex. 12" RCP~~	~~749.26~~	~~736.54~~	~~736.46~~	~~Connect to EX. 12" RCP~~
~~STR #58B~~	~~FES~~		~~15' ~ 12" PVC @ 0.40%~~		~~738.00~~	~~737.60~~	~~Connect to STR #58~~
STR #59	INLET	Neenah R-2561	144' ~ 4" PVC @ 0.40%	747.00	744.60	744.03	Connect to STR #49
~~STR #60~~	~~INLET~~	~~Neenah R-2561~~	~~44' ~ 12" RCP @ 0.26%~~	~~746.66~~	~~741.80~~	~~741.74~~	~~Connect to STR #61~~
~~STR #61~~	~~MH / OG~~	~~Neenah R-2561~~	~~126' ~ 12" RCP @ 0.26%~~	~~746.66~~	~~741.74~~	~~741.68~~	~~Connect to STR #60~~

THE CONTRACTOR CAN SUBSTITUTE THE EQUIVALENT TYPE OF CASTING FOR EJIW

THIS SCHEDULE IS PROVIDED ONLY FOR THE CONVENIENCE OF THE CONTRACTOR AND SUPPLIER AND SHOULD BE VERIFIED WITH THE ENGINEERING PLANS BEFORE STRUCTURES ARE ORDERED



PIPE CONNECTION DETAIL TO EXISTING MANHOLE
NOT TO SCALE



PIPE BOLLARD DETAIL
NOT TO SCALE

AD-1

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ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

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

REVISIONS

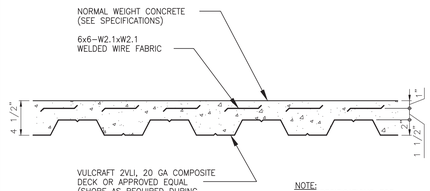
MARK	DATE	ISSUED FOR
AD-1	05/27/2021	ADDENDUM NO. 1
AD-4	06/09/2021	ADDENDUM NO. 4

DRAWING
DETAILS AND SPECIFICATIONS

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
C-6.0

FIBROUS REINFORCING MAY NOT BE SUBSTITUTED FOR WELD WIRE FABRIC



4 1/2" COMPOSITE SLAB
SCALE: 1 1/2" = 1'-0"

SLAB SCHEDULE

MARK	DEPTH	REINFORCEMENT	REMARKS
A	6"	WWF 6x6 W2.1xW2.1	6" DRAINAGE FILL
B	4"	WWF 6x6 W2.1xW2.1	6" DRAINAGE FILL
C	4 1/2"	WWF 6x6 W2.1xW2.1	USE 2" – 20GA COMPOSITE DECK

NOTE:
1. VAPOR BARRIER TO BE PROVIDED DIRECTLY UNDER SLAB AND MAY BE OMITTED FOR EXTERIOR SLABS.
2. SEE SPECIFICATION 03001 FOR FIBER-ADDITIVE REQUIREMENTS.

FOOTING SCHEDULE

MARK	WIDTH	DEPTH	REINFORCEMENT
F24	24"	12"	3-#5 LONGITUDINAL #5 AT 24" O.C. TRANSVERSE
F30	30"	12"	4-#6 LONGITUDINAL #5 AT 24" O.C. TRANSVERSE

NOTE:
ALL WALL FOOTINGS ARE DESIGNED FOR 2400 PSF SOIL BEARING

PAD SCHEDULE
NOTE: ALL PADS ARE DESIGNED FOR 3000 PSF SOIL BEARING.

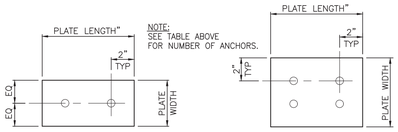
MARK	WIDTH	DEPTH	LENGTH	REINFORCEMENT (1/2 EACH WAY)
P4	4'-0"	1'-0"	4'-0"	10 – #5
P5	5'-0"	1'-2"	5'-0"	12 – #5
P6	6'-0"	1'-4"	6'-0"	14 – #6
P7	7'-0"	1'-6"	7'-0"	16 – #7

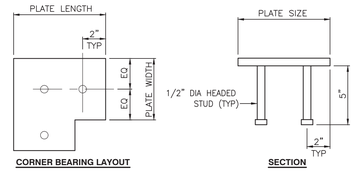
PIER SCHEDULE

MARK & SIZE	REINFORCING	
	VERTICAL	TIES
PR20– 20"x20"	4 – #6	#3 @ 12"
PR24– 24"x24"	6 – #6	#3 @ 12"

BEARING PLATE SCHEDULE

BEARING PLATE MARK	SIZE THK x W x L	NUMBER ANCHOR RODS	REMARKS
BP1	1/2" x 7" x 7"	4	TYPICAL BEAM BEARING
BP2	1/2" x 6" x 9"	3	CORNER BEAM BEARING
BP3	1/2" x 7 1/2" x 12"	4	BEAM BEARING





BEARING PLATE SCHEDULE
SCALE: NTS

1. Where lintels are not specifically shown or noted on the Structural or Architectural Drawings, provide the following lintels over all openings and recesses in both interior and exterior, non-load bearing walls.

   A) Brick: Masonry Opening — Angle Size
   - Up to 5'-0" — L4 x 4 x 5/16
   - Over 5'-0" & up to 7'-0" — L6 x 4 x 5/16
   - Over 7'-0" — L7 x 4 x 7/16

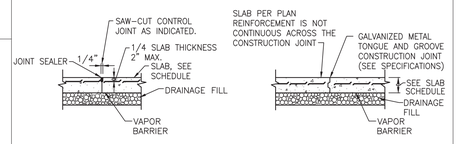
   All angles are LLV (long leg vertical), unless noted otherwise. Provide 1" of bearing per foot of span each end with minimum 8".

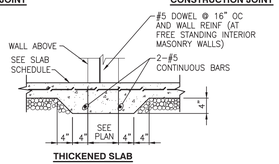
   B) Block: For openings up to 8'-0" long exposed in the finished room,use use lintel block filled with grout. Grout all exposed joints and reinforce as follows:
   1) For 6" thick block: 1-#5 bar
   2) For 8" thick block: 2-#5 bars

2. All lintels in exterior walls are to be galvanized.

RESOURCES CENTER BLDG-BRICK LINTEL SCHEDULE
SCALE: NTS

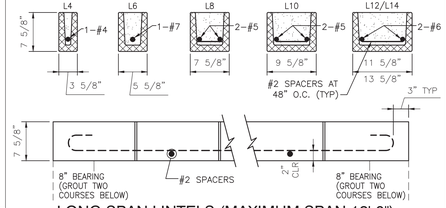
AD-4



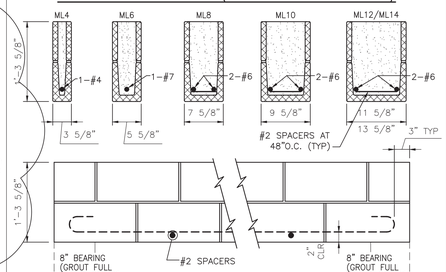


TYPICAL SLAB ON GRADE
SCALE: 3/4" = 1'-0"

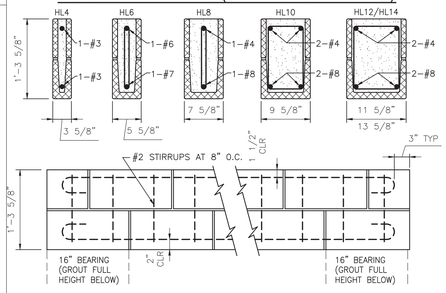
SHORT SPAN LINTELS (MAXIMUM SPAN 8'-0")



LONG SPAN LINTELS (MAXIMUM SPAN 12'-0")

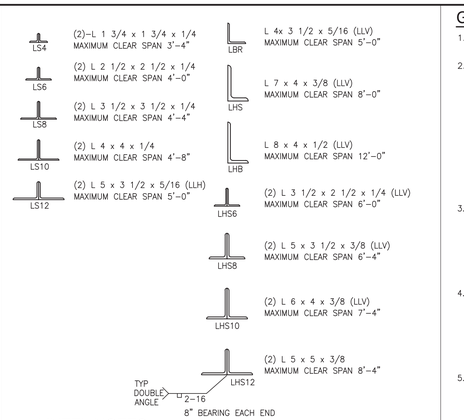


LONG SPAN LINTELS (MAXIMUM SPAN 16'-0")



CMU LINTEL NOTES
1. FILL 4" AND 6" MASONRY UNITS WITH FINE GROUT AND ALL OTHERS WITH COARSE GROUT. REFER TO SPECIFICATIONS SECTION DETAILS.
2. ALL REINFORCING BARS ARE HOOKED AT THE ENDS.
3. FOR TYPE OF CMU AND TYPE OF BOND REFERENCE SPECIFICATION SECTION 04200.
4. LINTELS SHALL BEAR ON SOLID CMU OR BEAR ON 2 FILLED COURSED, UON.
5. MAXIMUM SPANS DO NOT APPLY TO LOAD BEARING WALLS.
6. BOND PATTERN OF LINTEL TO MATCH ADJACENT WALL.
7. BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED.
8. 14" LINTELS MAY BE MADE UP OF TWO PIECES OF 8" BOND BEAM UNITS IF 14" BOND BEAM UNITS ARE NOT AVAILABLE. (JOINT TO BE AT CENTER OF WALL)
9. FURNISH AND INSTALL ALL LINTELS REQUIRED FOR ALL OPENING IN MASONRY, INCLUDING MECHANICAL AND ELECTRICAL WORK, WHETHER SPECIFICALLY NOTED ON DRAWINGS OR NOT.

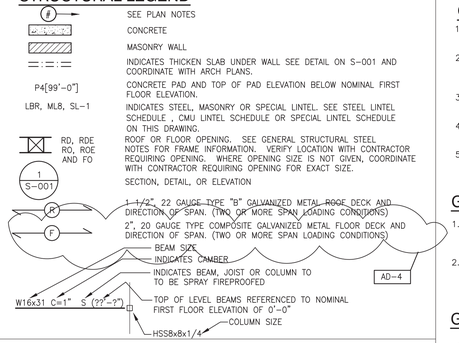
CMU LINTEL SCHEDULE
SCALE: NTS



LINTEL NOTES
1. LINTELS SHALL BEAR ON SOLID MASONRY OR ON TWO CMU COURSES FULLY GROUTED, UON.
2. FURNISH AND INSTALL ALL LOOSE LINTELS REQUIRED FOR ALL OPENINGS IN MASONRY, INCLUDING MECHANICAL AND ELECTRICAL WORK, WHETHER SPECIFICALLY NOTED ON DRAWINGS OR NOT.
3. ALL LINTELS AT EXTERIOR LOCATIONS OR OTHERWISE SUBJECT TO WEATHER OR CORROSIVE ATMOSPHERE SHALL BE GALVANIZED.

STEEL LINTEL SCHEDULE

STRUCTURAL LEGEND



STRUCTURAL ABBREVIATIONS

ALT	ALTERNATE	LAT	LATERAL
ARCH	ARCHITECTURAL	LONG	LONGITUDINAL
B/	BOTTOM OF	MAX	MAXIMUM
BM	BEAM	MECH	MECHANICAL
BOTT	BOTTOM	MIN	MINIMUM
BRG	BEARING	MAS	MASONRY
CL	CENTERLINE	N	NORTH
CMU	CONCRETE MASONRY UNIT	NIC	NOT IN CONTRACT
C TO C	CENTER TO CENTER	NO/#	NUMBER
CLR	CLEAR/CLEARANCE	O.C.	ON CENTER
COL	COLUMN	O TO O	OUT TO OUT
CONC	CONCRETE	OPNG	OPENING
CONSTR	CONSTRUCTION	OPP HD	OPPOSITE HAND
CONT	CONTINUOUS	PL	PLATE
CONTR	CONTRACTOR	PSF	POUNDS PER SQUARE FOOT
DET	DETAIL	PSI	POUNDS PER SQUARE INCH
DWG	DRAWING	REF	REFER TO
E	EAST	REINF	REINFORCING
EA	EACH	REQ'D	REQUIRED
EF	EACH FACE	S	SOUTH
ELEC	ELECTRICAL	SECT	SECTION
EL	ELEVATION	SIM	SIMILAR
EQU	EQUAL	SPA	SPACE
EQUIP	EQUIPMENT	SPEC	SPECIFICATIONS
EW	EACH WAY	STD	STANDARD
EXIST	EXISTING	STL	STEEL
EXP	EXPANSION	STRUCT	STRUCTURAL
FIN	FINISH	T/	TOP OF
FL	FLOOR	TOM	TOP OF MASONRY
FDN	FOUNDATION	TOS	TOP OF STEEL
FTG	FOOTING	THK	THICK/THICKNESS
GA	GAUGE	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UON	UNLESS OTHERWISE NOTED
HORIZ	HORIZONTAL	VIF	VERIFY IN FIELD
HS	HIGH STRENGTH	VERT	VERTICAL
JST	JOIST	W	WEST
JT	JOINT	W/	WITH
L	ANGLE	WWF	WELDED WIRE FABRIC
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		

PANEL MARK	CMU THICKNESS (BACK-UP)	VERTICAL REINFORCING SIZE	VERTICAL REINFORCING SPA	TOP OF BOND BEAM ELEVATIONS	REMARKS	DETAIL
PANEL 1	8"	#5	40"	SEE ARCH	INSP	1/A-401

NOTE:
1. (INSP) = MASONRY INSPECTION REQUIRED (SEE SPECIFICATIONS.
2. FOR HORIZONTAL JOINT REINFORCING SIZE AND SPACING SEE SPECIFICATIONS.
3. REINFORCING SCHEDULED HERE IN APPLIES TO THAT PORTION OF THE WALL ABOVE THE FOUNDATION WALL. SEE FOUNDATION PLANS FOR FOUNDATION WALL REINFORCING.
4. ALL REINFORCED MASONRY WALLS TO HAVE BOND BEAM AT OR NEAR TOP OF WALL. (HORZ BAR SIZE; 8" CMU: 2-#6, 10" CMU: 2-#6)

MASONRY WALL PANEL SCHEDULE

GENERAL DESIGN NOTES
1. BUILDING CODE 2014
   INTERNATIONAL BUILDING CODE – (WITH INDIANA ADMENDMENTS)
2. DESIGN LOADS:

   ROOF LOADS: DL (PSF)

GENERAL	CLASSROOM	CORRIDORS	OFFICE	ENTRY
34	32	65	32	29

   FLOOR LOADS: DL (PSF)

MEZZ/ STORAGE
150

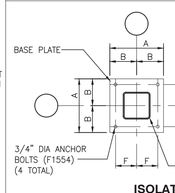
   FLOOR LOADS: LL (PSF) — GENERAL: 40
   ROOF LOADS: LL (PSF) — GENERAL: 20
3. SNOW LOAD INFORMATION:
   GROUND SNOW LOAD (Pg) – 30 PSF
   SNOW EXPOSURE FACTOR (Ce) – 0.9
   SNOW LOAD IMPORTANCE FACTOR (Is) – 1.1
   THERMAL FACTOR (Ct) – 1.0
   FLAT ROOF SNOW LOAD (Pf) – 28 PSF
4. WIND LOAD INFORMATION:
   BASIC WIND SPEED; V ult – 120 MPH
   WIND IMPORTANCE FACTOR – 1.15
   BUILDING CATEGORY – III
   WIND EXPOSURE – C
   INTERNAL PRESSURE COEFFICIENT (GCpi) – ±0.18
5. SEISMIC DESIGN DATA:
   SEISMIC USE GROUP – II
   SPECTRAL RESPONSE COEFFICIENTS
   Sds – 0.14
   Sd1 – 0.10
   SITE CLASS – D
   BASIC SEISMIC-FORCE-RESISTING SYSTEM – 2P
   DESIGN BASE SHEAR (V) – 0.043W
   ANALYSIS PROCEDURE – EQUIVALENT LATERAL FORCE
6. VERIFY ALL EXISTING CONDITIONS. WHERE ACTUAL CONDITIONS ARE DIFFERENT THAN INDICATED ON THE DRAWINGS, CONTACT THE ARCHITECT/ENGINEER IMMEDIATELY.

GENERAL FOUNDATION/CONCRETE NOTES
1. ALL CONCRETE SHALL BE STONE/GRAVEL AGGREGATE CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS AS NOTED IN THE SPECIFICATIONS.
2. ALL REINFORCING STEEL SHALL CONFORM, TO ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE.
3. ALL FOOTINGS COLUMN PADS ARE DESIGNED TO BEAR ON UNDISTURBED SOIL WITH AN ALLOWABLE BEARING CAPACITY OF 3000 PSF.

GENERAL STRUCTURAL STEEL NOTES
1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE STANDARD SPECIFICATION FOR STRUCTURAL STEEL, ASTM A992, UNLESS NOTED OTHERWISE.
2. ALL JOIST ANCHORS, BEAM BEARING PLATES, LINTELS, METAL DECK ANCHORS, AND NEEDLE BEAMS ARE TO BE FURNISHED BY THE STRUCTURAL METALS CONTRACTOR AND INSTALLED BY THE MASONRY CONTRACTOR.
3. PROVIDE CURB ANGLES 3x3x1/4 TO SUPPORT ROOF DECK AT OPENINGS, UNLESS NOTED OTHERWISE.
4. STRUCTURAL STEEL FABRICATOR SHALL PROVIDE STEEL FILLERS ON BEAM FLANGES WHERE REQUIRED FOR THE BEARING OF METAL DECK.
5. STRUCTURAL STEEL FABRICATOR SHALL PROVIDE SUPPORTS FOR METAL DECK AT PERIMETER COLUMNS, BUILDING CORNERS AND ALL OTHER LOCATIONS AS REQUIRED FOR COMPLETE INSTALLATION OF DECK.

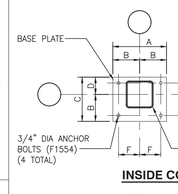
GENERAL STEEL DECK NOTES
1. METAL DECK MANUFACTURER SHALL PROVIDE 6" WIDE, 22 GAUGE COVER PLATES AT ALL DECK SPLICE LOCATIONS WHERE THE ROOF DECK HAS A CHANGE IN DIRECTION OR SLOPE.
2. METAL DECK MANUFACTURER SHALL PROVIDE RECESSED SUMP PANS TO ACCOMMODATE ROOF DRAINS IN ALL METAL ROOF DECKS.

GENERAL MASONRY NOTES
1. ALL CONCRETE MASONRY ASSEMBLAGES ARE DESIGNED FOR AN ULTIMATE COMPRESSIVE STRENGTH f'm = 1500 PSI.
2. ALL BEAMS AND LINTELS WHICH BEAR ON MASONRY SHALL BEAR A MINIMUM OF 8 INCHES ONTO MASONRY UNLESS OTHERWISE NOTED.
3. BLOCK WALLS SHALL BE LAID UP IN A RUNNING BOND PATTERN UNLESS OTHERWISE NOTED.
4. PROVIDE BRACING FOR ALL NON-LOAD BEARING BLOCK PARTITION WALLS PER THE TYPICAL BRACING DETAILS.
5. ALL MASONRY WALLS ON FOUNDATIONS (INTERIOR AND EXTERIOR) SHALL BE REINFORCED WITH #5 AT 48" C TO C UNLESS OTHERWISE NOTED.



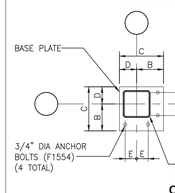
COLUMN SIZE	MARK					
	A	B	C	D	E	F
HSS10x10	16"	8"	--	--	--	6 1/2"
HSS8x8	14"	7"	--	--	--	5 1/2"
HSS7x7	13"	6 1/2"	--	--	--	5"
HSS6x6	12"	6"	--	--	--	4 1/2"
HSS5x5	11"	5 1/2"	--	--	--	4"
HSS4x4	10"	5"	--	--	--	3 1/2"

ISOLATED PIER AND FOOTING



COLUMN SIZE	MARK					
	A	B	C	D	E	F
HSS10x10	16"	8"	13 1/2"	5 1/2"	4"	6 1/2"
HSS8x8	14"	7"	11 1/2"	4 1/2"	3"	5 1/2"
HSS7x7	13"	6 1/2"	10 1/2"	4"	2 1/2"	5"
HSS6x6	12"	6"	9 1/2"	3 1/2"	2"	4 1/2"
HSS5x5	11"	5 1/2"	8 1/2"	3"	1 1/2"	4"
HSS4x4	10"	5"	7 1/2"	2 1/2"	1"	3 1/2"

INSIDE CORNER AND ALONG WALL



COLUMN SIZE	MARK					
	A	B	C	D	E	F
HSS10x10	--	8"	13 1/2"	5 1/2"	4"	--
HSS8x8	--	7"	11 1/2"	4 1/2"	3"	--
HSS7x7	--	6 1/2"	10 1/2"	4"	2 1/2"	--
HSS6x6	--	6"	9 1/2"	3 1/2"	2"	--
HSS5x5	--	5 1/2"	8 1/2"	3"	1 1/2"	--
HSS4x4	--	5"	7 1/2"	2 1/2"	1"	--

OUTSIDE CORNER

TYPICAL BASE PLATE
SCALE: 1/2" = 1'-0"

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

GIBRALTAR DESIGN
9102 N. Meridian St., Ste. 300
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Email info@GibraltarDesign.com
Phone 317.580.5777 Fax 317.580.5778

PROJECT 20-141
DATE 05/17/21
COORDINATED BY RM
DRAWN BY RM
CHECKED BY JB

ROGER MALONE REGISTERED NO. PE 19800200 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	05/28/21	ADDENDUM NO. 1
AD-4	06/10/21	ADDENDUM NO. 4

DRAWING
STRUCTURAL SECTIONS, DETAILS AND NOTES

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
S-001

Wednesday, 6/9/2021 - 4:59 PM - LAST SAVED BY:RMALONE
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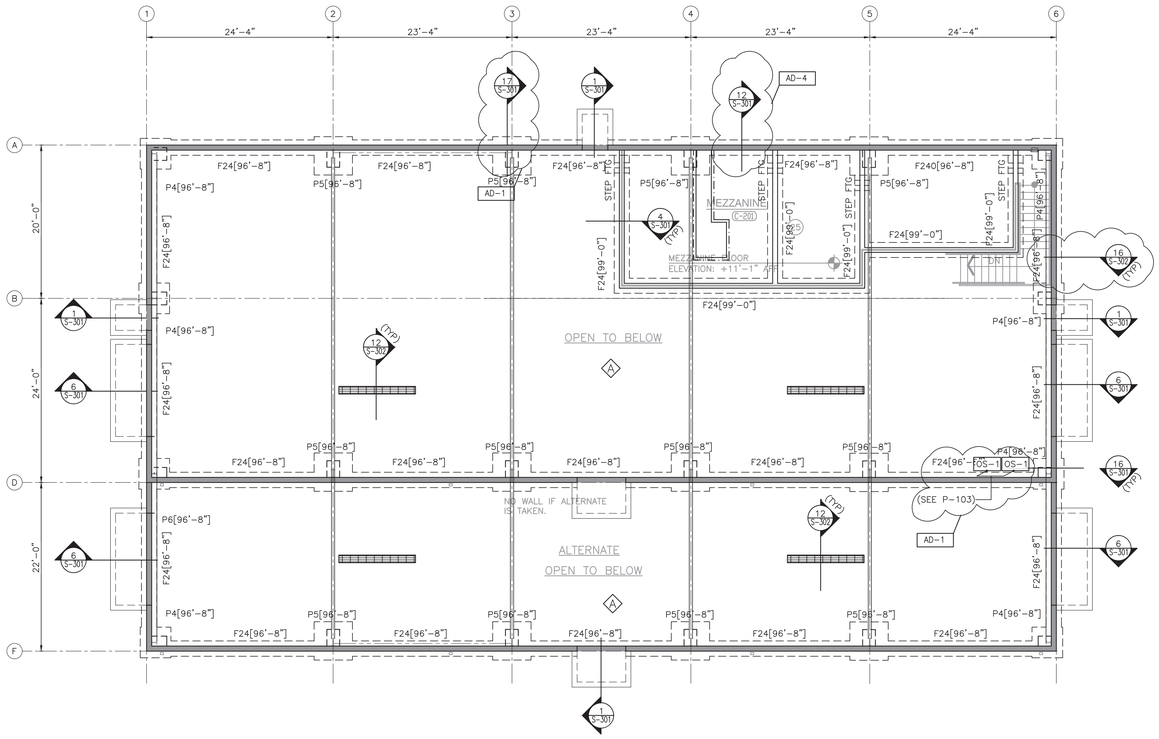


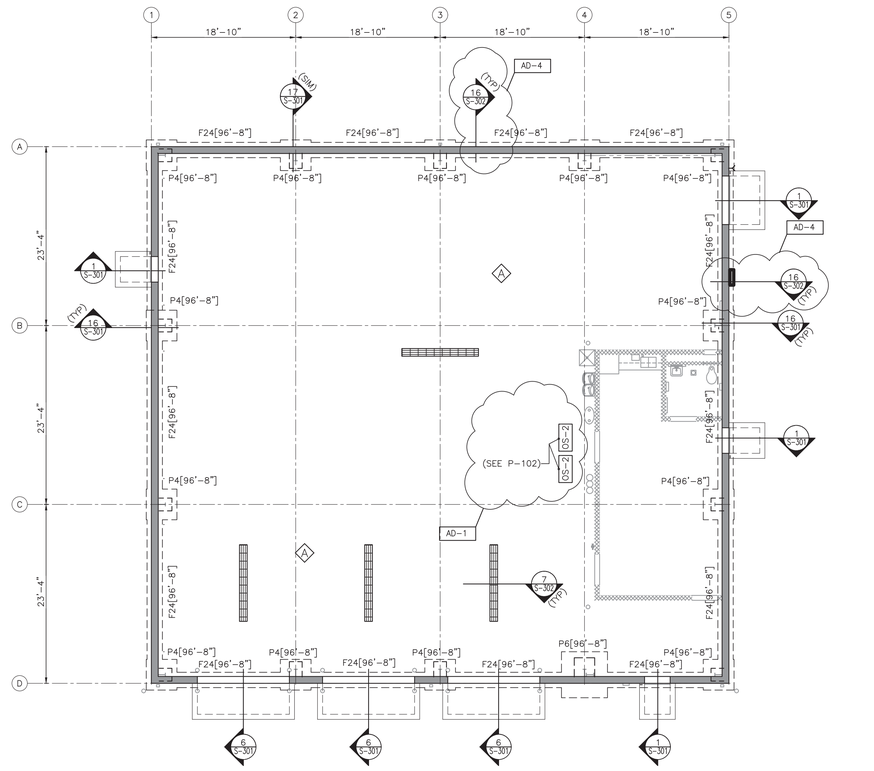
MECHANICS BUILDING - STRUCTURAL FOUNDATION PLAN

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

NORTH

FOUNDATION/SLAB PLAN NOTES

1. SEE SHEET S-001 FOR GENERAL NOTES, STRUCTURAL LEGEND, SCHEDULES AND TYPICAL DETAILS.
2. ALL ELEVATIONS ARE REFERENCED FROM A FINISH FLOOR ELEVATION OF 100'-0" PER AREA. SEE PLAN AND VERIFY WITH ARCHITECTURAL FLOOR PLANS
3. SLAB CONTROL AND CONSTRUCTION JOINTS ARE TO BE LAID OUT PER CONTRACTOR PLANNED SEQUENCE OF COMPLETION. (SEE SPECIFICATION)
4. SEE S-301 AND S-302 FOR FOUNDATION AND FRAMING DETAILS.



MAINTENANCE BUILDING - STRUCTURAL FOUNDATION PLAN

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

NORTH

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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PROJECT 20-141
DATE 05/17/21
COORDINATED BY
DRAWN BY
CHECKED BY

ROGER MALONE REGISTERED NO. PE 19800200 STATE OF INDIANA PROFESSIONAL ENGINEER

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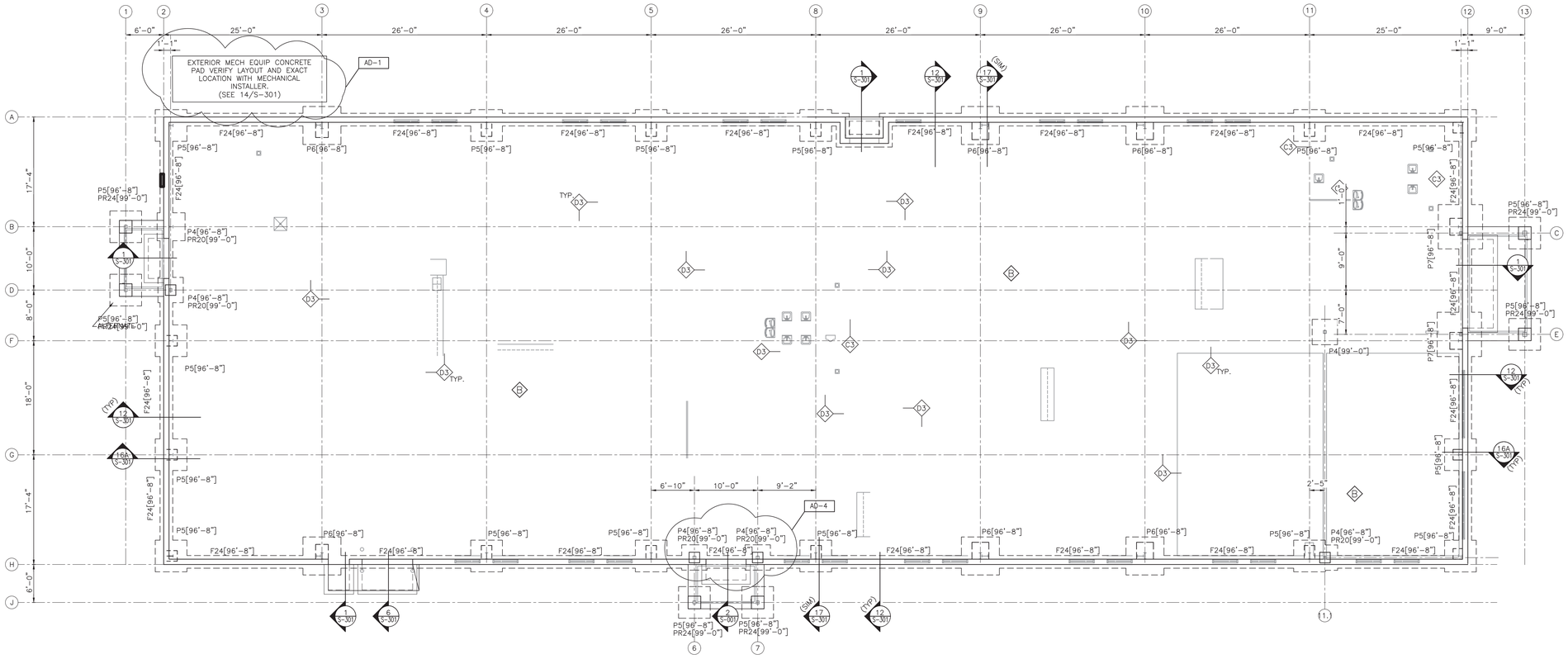
DRAWING
STRUCTURAL FOUNDATION PLAN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
SB102



RESOURCES CENTER - FOUNDATION PLAN

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

NORTH

FOUNDATION/SLAB PLAN NOTES

1. SEE SHEET S-001 FOR GENERAL NOTES, STRUCTURAL LEGEND, SCHEDULES AND TYPICAL DETAILS.
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4. SEE S-301 AND S-302 FOR FOUNDATION AND FRAMING DETAILS.

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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PROJECT 20-141
DATE 05/17/21
COORDINATED BY
DRAWN BY
CHECKED BY

ROGER MALONE REGISTERED NO. PE 19800200 STATE OF INDIANA PROFESSIONAL ENGINEER

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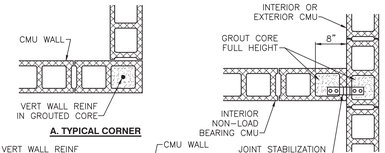
AD-4	06/10/21	ADDENDUM NO. 4

DRAWING
STRUCTURAL FOUNDATION PLAN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
SB103

Wednesday, 6/9/2021 - 5:43 PM - LAST SAVED BY:RMALONE
Y:\20-141 HANOVER CSC - NEW RESOURCE CENTER\20-141 DRAWINGS\04 STRC\SB101A.DWG

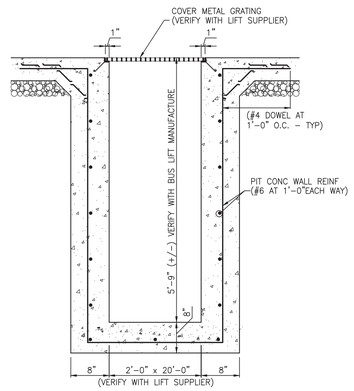


NOTE:

1. REINFORCING SHOWN IS IN ADDITION TO REINFORCING SHOWN ON PLANS AND SPECIAL DETAILS.
2. REINFORCING TO BE SAME SIZE AS ADJACENT WALL REINFORCING INDICATED ON PLANS.
3. TYPICAL DETAILS APPLIES TO ALL EXTERIOR WALLS AND INTERIOR LOAD BEARING WALLS.

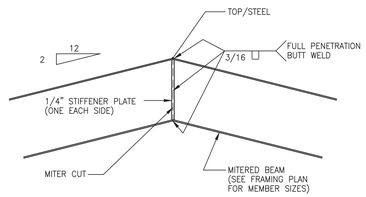
TYPICAL VERTICAL CMU WALL REINFORCING

SCALE: NTS — 15 / S-302



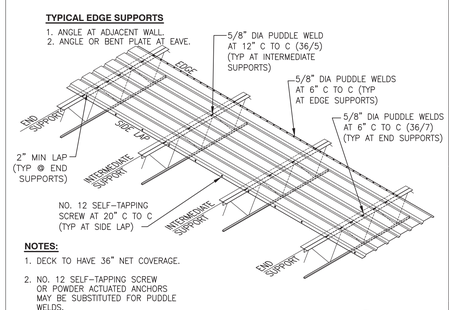
BUS LIFT DEEP - UTILITY PIT

SCALE: 3/4" = 1'-0" — 12 / S-302



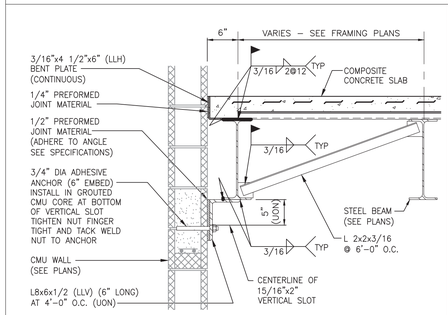
TYPICAL MITERED BEAM (M)

SCALE: 1" = 1'-0" — 8 / S-302



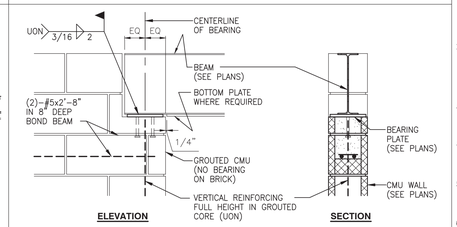
TYPICAL ROOF DECK ATTACHMENT

SCALE: NTS — 4 / S-302

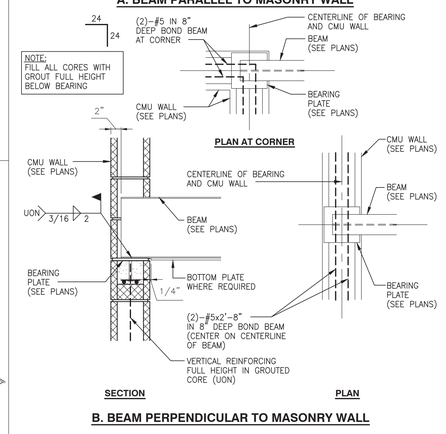


TYPICAL FLOOR EDGE SECTION

SCALE: 1" = 1'-0" — 9 / S-302



A. BEAM PARALLEL TO MASONRY WALL



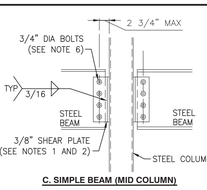
B. BEAM PERPENDICULAR TO MASONRY WALL

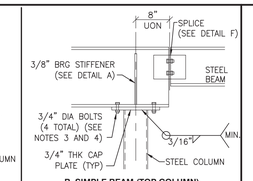
BEAM BEARING ON MASONRY

SCALE: 1" = 1'-0" — 5 / S-302

MECHANICAL DECK EDGE

SCALE: 1" = 1'-0" — 6 / S-302





NOTES:

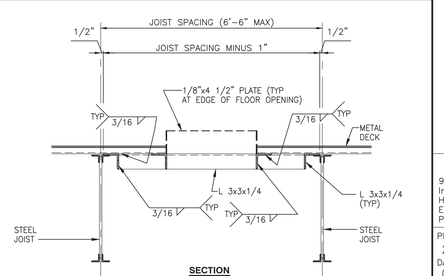
1. WT-SHAPE (WELD ALL AROUND PER STRUCTURAL WELDING CODE, AWS D1.1)

HSS4-WT4x6.5	HSS8-WT4x14
HSS6-WT4x6.5	HSS10-WT5x22.5
HSS7-WT4x10.5	HSS12-WT5x26.5

2. SHEAR PLATES WELDED TO FACE OF COLUMN MAY BE USED IN LIEU OF WT FOR COLUMNS WITH WALL THICKNESS OF 1/2" OR GREATER. SHEAR PLATES TO BE 5/8" THICK FOR W27 BEAMS AND LARGER.
3. EXTEND DEEPER BEAM OVER TOP OF COLUMNS AND FRAME OTHER MEMBERS INTO IT UNLESS OTHERWISE NOTED.
4. AT CORNERS OR END WALLS USE 2 BOLTS AND EXTEND BEAM AND CAP PLATE 1/2" BEYOND EXTERIOR FACE OF COLUMN.
5. SHEAR PLATES WELDED TO WEB OF BEAM TO BE 5/8" THICK FOR W27 BEAMS AND LARGER.
6. DESIGN CONNECTIONS IN ACCORDANCE WITH AISC FOR REACTIONS INDICATED ON PLANS UNLESS OTHERWISE NOTED. WHERE REACTIONS ARE NOT SHOWN, THE CONNECTION SHALL BE DESIGNED FOR THE 50% OF THE TOTAL ALLOWABLE UNIFORM LOAD ON THE SPAN PER THE LATEST EDITION OF THE ASIC MANUAL.
7. DOUBLE ANGLES MAY BE USED IN LIEU OF WT AND SHEAR PLATES. (MINIMUM THICKNESS OF ANGLES SHALL BE 1/4" AND OUTSTANDING LEG SHALL BE 3 1/2" MINIMUM).

TYPICAL STEEL FRAMING DETAILS

SCALE: NTS — 1 / S-302



NOTE:

FRAMES REQUIRED FOR HVAC EQUIPMENT. FINAL OPENING SIZE AND LOCATION TO BE DETERMINED FROM THE HVAC APPROVED SHOP DRAWINGS AND VERIFIED IN THE FIELD.

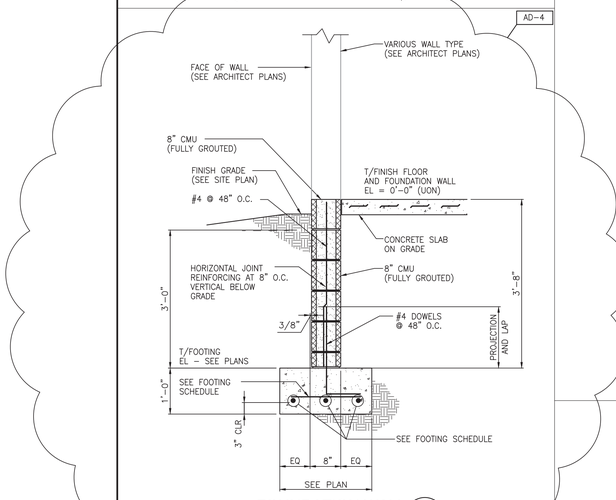
MAXIMUM LOAD 800 POUNDS

IN ADDITION TO OPENING FRAMES SHOWN ON DRAWINGS FURNISH AND INSTALL 5 ADDITIONAL FRAMES TO BE LOCATED BY THE ARCHITECT DURING CONSTRUCTION.

TYPICAL OPENING FRAME (RD) (RO) (RV) (RH) (FO)

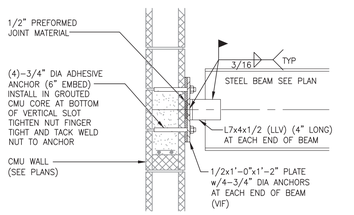
SCALE: 1" = 1'-0" — 2 / S-302

AD-4



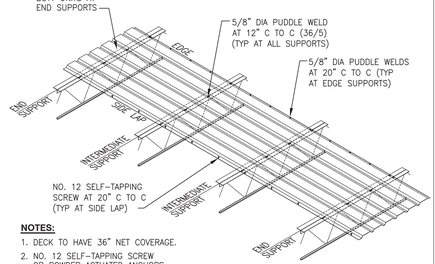
FOUNDATION WALL

SCALE: 3/4" = 1'-0" — 16 / S-302



CANOPY BEAM WALL BRACE / SUPPORT

SCALE: 1" = 1'-0" — 13 / S-302



NOTES:

1. DECK TO HAVE 36" NET COVERAGE.
2. NO. 12 SELF-TAPPING SCREW OR POWDER ACTUATED ANCHORS MAY BE SUBSTITUTED FOR PUDDLE WELDS.

TYPICAL EDGE SUPPORTS

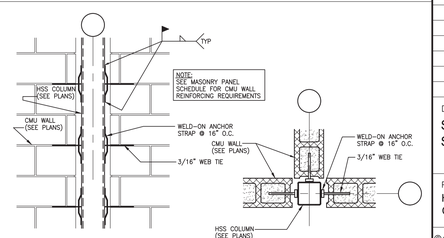
1. ANGLE OR BENT PLATE AT ADJACENT WALL.
2. ANGLE OR BENT PLATE AT EDGE OF SLAB.

TYPICAL COMPOSITE FLOOR DECK ATTACHMENT

SCALE: NTS — 10 / S-302

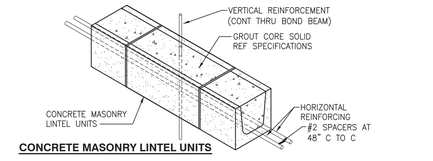
INTERIOR TRENCH

SCALE: 3/4" = 1'-0" — 7 / S-302

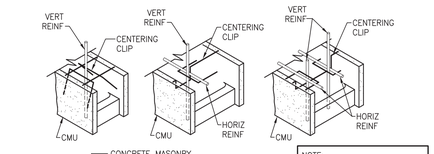


TYPICAL COLUMN ATTACHMENT TO CMU

SCALE: 1" = 1'-0" — 3 / S-302



CONCRETE MASONRY LINTEL UNITS



NOTE:
ALL BOND BEAMS SHALL BE CONTINUOUS AND SHALL BE FILLED WITH GROUT AND REINFORCED AS FOLLOWS:

BOND BEAM	REINFORCING
4" CMU	1-#3
6" CMU	1-#4
8" CMU	2-#6
10" CMU	2-#6
12" CMU	2-#6

TYPICAL CMU BOND BEAM

SCALE: NTS — 14 / S-302

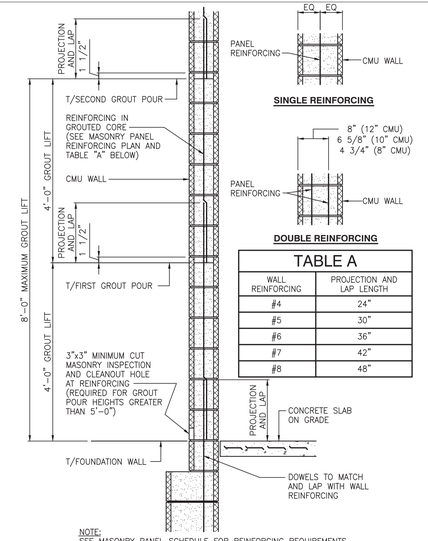


TABLE A	
WALL REINFORCING	PROJECTION AND LAP LENGTH
#4	24"
#5	30"
#6	36"
#7	42"
#8	48"

NOTE:
SEE MASONRY PANEL SCHEDULE FOR REINFORCING REQUIREMENTS. MULTI-WYTHE WALLS MAY REQUIRE REINFORCING IN EACH WYTHE.

TYPICAL REINFORCED CMU WALL

SCALE: 3/4" = 1'-0" — 11 / S-302

GIBRALTAR DESIGN
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PROJECT
20-141
DATE
05/17/21
COORDINATED BY
RM
DRAWN BY
RM
CHECKED BY
JB

ROGER WALDRON REGISTERED NO. PE 19800200 STATE OF INDIANA PROFESSIONAL ENGINEER

REVISIONS

MARK	DATE	ISSUED FOR
AD-4	06/10/21	ADDENDUM NO. 4

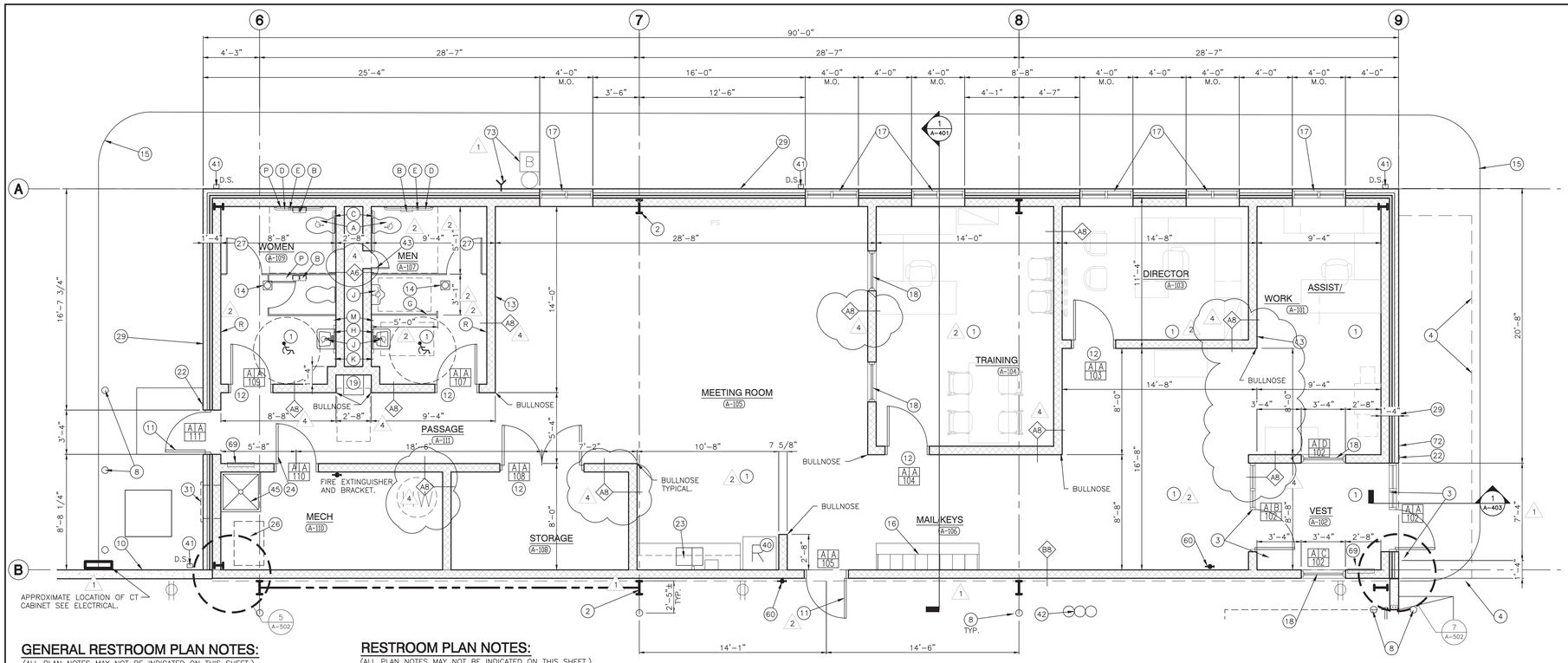
PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

DRAWING
STRUCTURAL STEEL SECTIONS AND DETAILS

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
S-302



BUILDING 'A' OFFICE PLAN BUS GARAGE

(1/A-102) (4) SCALE: 1/4" = 1'-0"

NORTH

GENERAL RESTROOM PLAN NOTES:

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

A. FOR GENERAL NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC. SEE SHEET G-301.

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

C. REFER TO PLUMBING DRAWINGS FOR FIXTURE TYPES.

D. REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS.

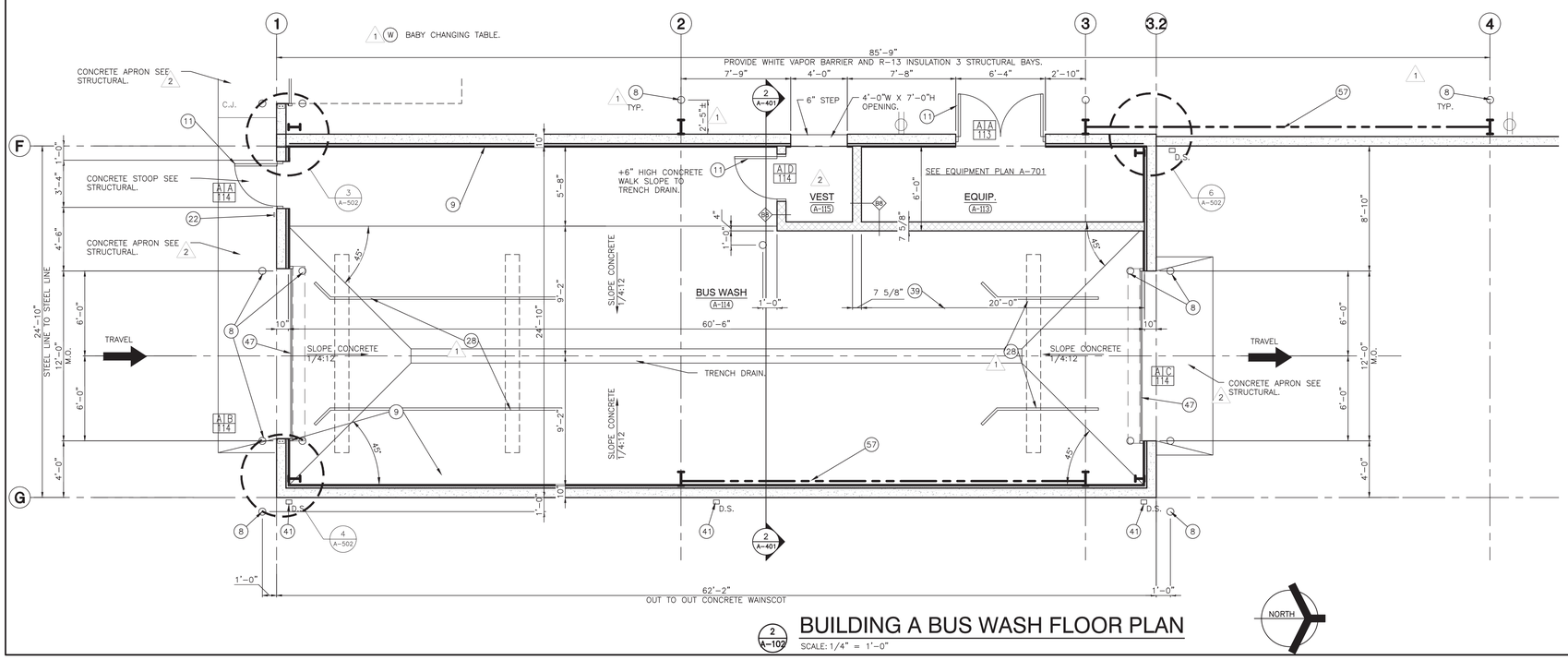
E. COORDINATE HEIGHT OF GRAB BAR WITH TANK OF FLOOR MOUNTED WATER CLOSET OR FLUSH VALVE OF WALL MOUNTED WATER CLOSET.

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

RESTROOM PLAN NOTES:

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

(A) ACCESSIBLE FIXTURE. SEE PLUMBING.
(B) TOILET PAPER HOLDER. (OFCI)
(C) 3'-0" HANDICAPPED GRAB BAR.
(D) 3'-6" HANDICAPPED GRAB BAR.
(E) 18" VERTICAL HANDICAPPED GRAB BAR.
(F) TOILET PARTITION.
(G) URINAL SCREEN WALL.
(H) 2'-0" W x 3'-0" H MIRROR WITH BOTTOM OF REFLECTIVE SURFACE MOUNTED AT 40"A.F.F.
(J) ACCESSIBLE FIXTURE (LAVATORY/URINAL). SEE PLUMBING DRAWINGS.
(K) PAPER TOWEL DISPENSER. (OFCI)
(L) 24"x24" ACCESS PANEL. MOUNT TOP OF PANEL AT 5'-4" A.F.F. COORDINATE LOCATION WITH SENSOR HEIGHT.
(M) SOAP DISPENSER. (OFCI)
(N) FLOOR DRAIN. SEE PLUMBING DRAWINGS.
(P) FEMININE NAPKIN DISPOSAL.
(Q) FEMININE NAPKIN DISPENSER.
(R) 2'-0" x 5'-0" MIRROR BOTTOM AT 1'-4" A.F.F.
(S) MOP SINK. SEE PLUMBING.
(W) BABY CHANGING TABLE.



BUILDING A BUS WASH FLOOR PLAN

(2/A-102) SCALE: 1/4" = 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) 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. REFER TO FINISH PLANS FOR LOCATION AND EXTENT OF FINISHED FLOOR AND WALL MATERIAL.

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

PLAN LEGEND:

INDICATES STOREFRONT, CURTAIN WALL, OR WINDOW SYSTEM. REFER TO A-603 BUILDING 'D' ONLY FOR ELEVATIONS AND DETAILS.

INDICATES WALL TYPES REFER TO G-301 FOR WALL THICKNESS, HEIGHT, AND COMPOSITION.

PLAN NOTES:

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

1. 2X2 ACOUSTICAL CEILING TILE.
2. EXPOSED STRUCTURE PAINTED.
3. ALUMINUM STOREFRONT.
4. CANOPY.
5. OVERHEAD POWER CHORD REELS REF "E" SERIES DRAWINGS.
6. SCHOOL BUS OUTLINE POSITION.
7. 12'-0" X12'-0" MOTOR OPERATED SECTIONAL OVERHEAD INSULATED GARAGE DOOR AND TRACK WITH VISION PANELS. VISION PANEL LOCATION TO BE DETERMINED IN SUBMITTAL PROCESS.
8. 6" DIAMETER CONCRETE FILLED STEEL PIPE BOLLARDS. REFER TO SPECIFICATIONS.
9. PREFINISHED METAL WALL AND CEILING LINE PANELS WITH SEAM RAPE AND GASKETED SCREWS. SEE BUILDING SECTIONS.
10. PEMB (PRE-ENGINEERED METAL BUILDING)-INSULATED WALLS MIN. R-13 AND ROOF MIN. R-19.
11. EXTERIOR SINGLE DOORS (3'-0"W) AND DOUBLE (6'-0"W) TO BE FRP WITH ALUMINUM FRAME.
12. ALL INTERIOR DOORS TO BE 3'-0" SOLID CORE WOOD WITH HOLLOW METAL FRAMES UNLESS NOTED OTHERWISE.
13. ALL INTERIOR WALLS TO BE TYPE B8 AND INTERIOR CHASE WALLS TO BE TYPE B6.
14. FLOOR DRAIN. SEE PLUMBING.
15. CONCRETE WALK. SEE CIVIL.
16. PLASTIC LAMINATED MAILBOXES. SEE A700 SERIES.
17. 4'-0"W X 6'-0"H FIXED ALUMINUM WINDOW.
18. HOLLOW METAL FRAMED WINDOW.
19. ELECTRIC WATER COOLER. ADA ACCESSIBLE. SEE PLUMBING.
20. 3/4" FIRE TREATED PLYWOOD FROM FLOOR TO 8'-0" A.F.F. ON ALL SIDES OF INTERIOR PEMB GIRT SYSTEM. HOLD OFF FLOOR 1/2". PAINT.
21. ELECTRICAL EQUIPMENT. SEE ELECTRICAL.
22. DOOR ACCESS CONTROL.
23. KITCHENETTE: BASE/WALL CABINETS, SS SINK. SEE A700 SERIES.
24. HOLLOW METAL DOOR AND FRAME.
25. 4" THICK 5'-0" X 5'-0" MIN. CONCRETE STOOP SLOPE AWAY FROM DOOR AT 1/4:12. TURN EDGES DOWN.
26. FURNACE. SEE MECHANICAL.
27. SOLID PLASTIC TOILET PARTITIONS. REFER TO SPECIFICATIONS.
28. AUTOMATIC BUS WASHING SYSTEM. REFER TO SPECIFICATIONS.
29. BRICK VENEER OVER PEMB.
30. INSULATED METAL PANELS OVER 8" CMU WALL CONSTRUCTION.
31. WALL LOUVER. SEE MECHANICAL.
32. MILLWORK. SEE A700 SERIES.
33. SPECIALTY BACK WALL (USE OF ACRYLIC).
34. MANUAL OPERATION FOLDING WALL SYSTEM WITH POCKET DOORS.
35. VMC, PANELIZED BACK WALL (WOOD OR P.LAM) W/ REPRESSED TECHNOLOGY BOARDS.
36. BUS WASH EQUIPMENT. SEE PLUMBING.
37. IN-GROUND BUS LIFT. SEE STRUCTURAL.
38. FIRE CONNECTION. SEE CIVIL.
39. TRENCH DRAIN CONNECT TO OIL SEPARATOR. SEE PLUMBING.
40. REFRIGERATOR BY OWNER.
41. PREFINISHED METAL DOWNSPOUT WITH ALUMINUM BOOT. COORDINATE WITH CIVIL.
42. OIL SEPARATOR. SEE PLUMBING.
43. ACCESS DOOR 16" X 24".
44. EYEWASH STATION. SEE PLUMBING.
45. MOP BASIN. CONNECT TO OIL SEPARATOR. SEE PLUMBING.
46. CLEAN SINK. CONNECT TO OIL SEPARATOR. SEE PLUMBING.
47. 12'-0" X 12'-0" MOTOR OPERATED ROLL-UP DOOR WITH VISION PANEL.
48. ADA 36"X36" TRANSFER SHOWER. SEE PLUMBING.
49. ALTERNATE: CHECKER PLATE STEEL STAIR.
50. ALTERNATE: METAL GUARD RAIL.
51. WALL EXHAUST FAN MOUNTED TO ROOF STRUCTURE. SEE MECHANICAL EQUIPMENT SCHEDULE FOR UNIT WEIGHT.
52. UNIT HEATER MOUNTED TO ROOF STRUCTURE. SEE MECHANICAL EQUIPMENT SCHEDULE FOR UNIT WEIGHT.
53. ROOF EXHAUST FAN. SEE MECHANICAL EQUIPMENT SCHEDULE FOR UNIT WEIGHT.
54. WALL MOUNT EXHAUST LOUVER ABOVE DOOR. SEE MECHANICAL.
55. PACKAGE A/C UNIT. SEE MECHANICAL.
56. FRP PANEL ON FIRE RETARDANT TREATED PLYWOOD 8'-0" HIGH.
57. PEMB CROSS BRACING. PAINT.
58. METAL LOCKERS (ONE ADA).
59. ADA CLOTHES HOOK.
60. FIRE EXTINGUISHER AND CABINET.
61. ALTERNATE: APPROXIMATE LOCATION OF ROOFTOP HVAC UNIT. SEE MECHANICAL. PROVIDE ROOF CURB FOR STANDARD PEMB ROOFING.
62. WALL MOUNTED ELECTRIC CABINET HEATER. SEE MECHANICAL.
63. 12" WIDE SHELF WITH CLOTHES ROD. SEE A700 SERIES.
64. CAST-IN-PLACE CONCRETE WALL 4'-0" HIGH.
65. POWER RECEPTACLE. SEE ELECTRICAL.
66. BASE/WALL CABINETS. SEE A700 SERIES.
67. 8'-0" X 8'-0" SECTIONAL OVERHEAD INSULATED DOOR AND TRACK.
68. AUTOMATIC DOOR ACTUATOR FOR HC/ADA DOOR OPERATOR. COORDINATE WITH DOOR SCHEDULE AND ELECTRICAL. PROVIDE CONDUIT AND BOX IN (1) MASONRY PIER, GYPSUM BOARD WALL OR ALUMINUM MULLION.
69. WALL MOUNTED ELECTRICAL CABINET HEATER. SEE MECHANICAL.
70. CHAIN-LINK FENCE ENCLOSURE. 8'-0" HIGH.
71. ALTERNATE: IN-GROUND BUS LIFT AT SECOND SERVICE POSITION.
72. FIRE DEPARTMENT KNOX BOX. COORDINATE INSTALL LOCATION WITH LOCAL FIRE DEPARTMENT. TYPICAL (4) BUILDINGS.
73. FIRE DEPARTMENT SPRINKLER CONNECTION AND ALARM BELL SEE FIRE PROTECTION SHEETS.

GIBRALTAR DESIGN
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PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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PROJECT 20-141
DATE 05/17/21
COORDINATED BY CD
DRAWN BY JKF, AB
CHECKED BY JPB

MICHAEL I. ROSSILLO REGISTERED ND. AR11600005 STATE OF INDIANA ARCHITECT

REVISIONS

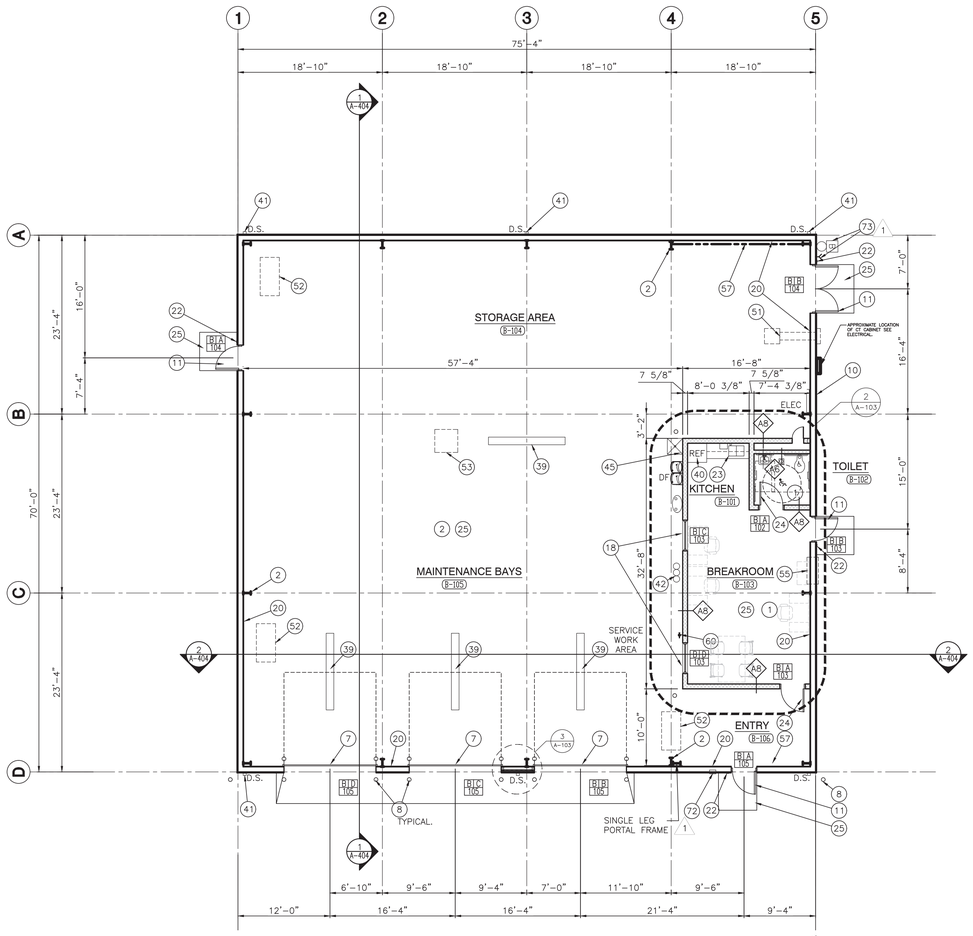
MARK	DATE	ISSUED FOR
1	05/28/21	ADDENDUM #1
2	06/03/21	ADDENDUM #2
3	06/08/21	ADDENDUM #3
4	06/10/21	ADDENDUM #4

DRAWING
ENLARGED PLANS
BUS GARAGE
BUILDING A

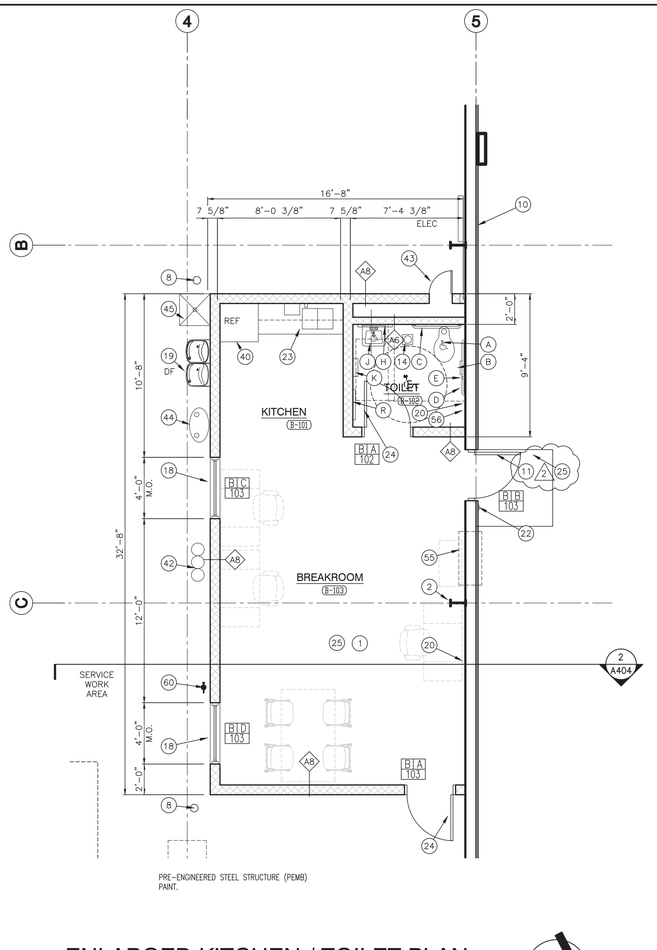
PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
A-102

ENLARGED BLDG A.DWG
Z:\cadprojects\2020 - 2029\2021 Projects\2104 Gibralter Design Hanover\05 Arch\A-102 PLAN ENLARGED BLDG A.dwg, 6/10/2021 3:58:36 PM, JFitzgerald



1 BUILDING 'B' MAINTENANCE BUILDING PLAN
A-103
SCALE: 1/8" = 1'-0"



PRE-ENGINEERED STEEL STRUCTURE (PEMB) PAINT.

2 ENLARGED KITCHEN / TOILET PLAN
A-103
SCALE: 1/4" = 1'-0"

NORTH

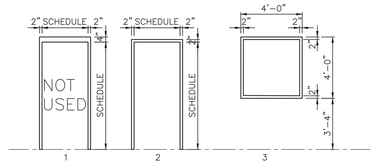
GLASS SCHEDULE	
MK	GLASS TYPES
A	1/4" CLEAR TEMPERED
B	1" INSUL. GLASS
C	1" INSUL. SPANDREL GLASS
D	1/4" FIRE RATED
E	3/8" LAMINATED SAFETY GLASS

LOUVER SCHEDULE	
MK	LOUVER SIZE

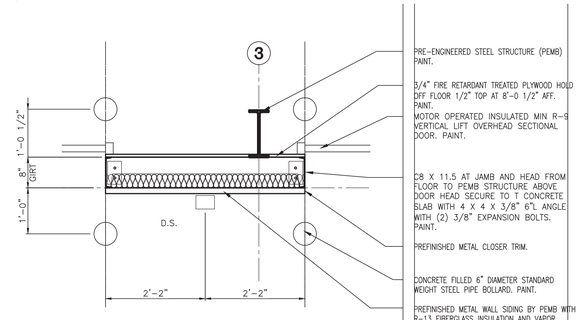
SCHEDULE
SEE SCHEDULE

DOOR AND FRAME SCHEDULE

NO.	DESCRIPTION	DOOR TYPE	DOOR SIZE (WxH) (INCHES)	DOOR MATERIAL	DOOR LOU	GLASS DOOR	GLASS SIDE LGT	GLASS TRA	FRAME MAT'L	FRAME WIDTH	FRAME JAMB	FRAME HEAD	FRAME SILL	FRAME ELEV	LABEL	HARDWARE EXIT DEVICE	HARDWARE CLOSER	NOTES
102–A	SINGLE	1	36 x 86	HM	–	–	–	–	HM	8 3/4"	1	1	–	2	–	–	–	–
103–A	SINGLE	3	36 x 86	HM	–	A	–	–	HM	8 3/4"	1	1	–	2	–	–	–	–
103–B	SINGLE	2	36 x 86	FRP	–	B	–	–	ALUM	4 1/2"	6	6	–	2	–	YES	YES	4,10,11
103–C	FRAMED WINDOW	–	–	–	–	A	–	–	HM	7 5/8"	2	2	2	3	–	–	–	–
103–D	FRAMED WINDOW	–	–	–	–	A	–	–	HM	7 5/8"	2	2	2	3	–	–	–	–
104–A	SINGLE	2	36 x 86	FRP	–	B	–	–	ALUM	4 1/2"	6	6	–	2	–	YES	YES	4,10,11
104–B	DOUBLE	2	72 x 86	FRP	–	B	–	–	ALUM	4 1/2"	6	6	–	2	–	YES	YES	4,5,10,11
105–A	SINGLE	2	36 x 86	FRP	–	B	–	–	ALUM	4 1/2"	6	6	–	2	–	YES	YES	4,10,11
105–B	OVERHEAD SECTIONAL	4	144 x 144	STEEL	–	–	–	–	STEEL	–	2 A502	2 A403	–	–	–	–	–	13
105–C	OVERHEAD SECTIONAL	4	144 x 144	STEEL	–	–	–	–	STEEL	–	2 A502	2 A403	–	–	–	–	–	13
105–D	OVERHEAD SECTIONAL	4	144 x 144	STEEL	–	–	–	–	STEEL	–	2 A502	2 A403	–	–	–	–	–	13



FRAME TYPE ELEVATIONS
SCALE: 1/4" = 1'-0"



3 DETAIL: PLAN
A-103
SCALE: 3/4" = 1'-0"

NORTH

GENERAL DOOR NOTES

A. JAMB, HEAD, AND SILL DO NOT SHOW WALL CONSTRUCTION. SEE FLOOR PLAN FOR WALL MATERIALS. REFER TO A800 SERIES DRAWINGS FOR WALL FINISHES.
B. SEAL ALL JAMBS AND HEADS WHERE FRAMES MEET EXPOSED MASONRY AND/OR GYPSUM BOARD.
C. PROVIDE A SCRIBE MOLD AT ALL EXTERIOR DOOR FRAMES AND WHERE NOTED ON DRAWINGS. SCRIBE MOLD TO BE 3/4" X 3/4" METAL AT EXTERIOR OF METAL FRAMES AND AT BOTH SIDES OF ALUMINUM FRAMES. SET SCRIBE MOLDS IN SEALANT.
D. PROVIDE GLAZING AND GLASS STOPS AS REQUIRED.
E. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS, BOTH NEW AND EXISTING.
F. SHIM SPACE IS NOT SHOWN ON DOOR FRAME ELEVATIONS FOR ALUMINUM STOREFRONT. TAKE THESE DIMENSIONS INTO ACCOUNT AND ADJUST DIMENSIONS ACCORDINGLY.
G. FOR DOOR POSITION WITHIN WALL REFER TO FRAME MOUNTING DETAIL 2–A601.
H. FOR ELECTRICAL ROUGH–IN AT DOORS REFER TO DETAIL 1–A601.
I. FOR HOLLOW METAL FRAME ELEVATIONS (HM) REFER TO A301. FOR HOLLOW METAL (HM) FRAME PROFILES REFER TO A601.
J. FOR ALUMINUM STOREFRONT ELEVATIONS (SF) REFER TO A301. FOR STOREFRONT (SF) FRAME PROFILES REFER TO A601.
K. GLASS NOTED IN SIDELIGHT COLUMN FOR STOREFRONT WITH NO DOOR APPLIES TO ALL OPENINGS IN FRAME UNLESS NOTED OTHERWISE.
L. REFER TO FLOOR PLANS FOR LOCATIONS OF NEW AND EXISTING ADA PUSH PADS FOR POWER ASSISTED OPERATORS.

DOOR SCHEDULE NOTES (REMARKS):

1. INSULATED OVERHEAD COILING DOOR. MOTOR OPERATED.
2. FIELD VERIFY WALL THICKNESSES AND OPENING DIMENTSIONS FOR DOORS AND FRAMES PRIOR TO STARTING CONSTRUCTION.
3. INSULATED DOOR.
4. PROVIDE ALUMINUM THRESHOLD SET IN FULL BED OF MASTIC.
5. KEYED REMOVABLE MULLION.
6. WALL MOUNTED ELECTROMAGNETIC DOOR HOLDER(S) BY DIVISION 26, DOOR MOUNTED ARMATURE SHALL BE INSTALLED BY HARDWARE INSTALLER.
7. PROVIDE HOLD OPEN ON EACH DOOR.
8. (NOT USED)
9. PROVIDE DOOR RELEASE ON AI PHONE LOCATED AT RECEPTION DESK.
10. PANIC DEVICE TO HAVE ELECTRIC LATCH BOLT. PREPARE FRAME FOR ELECTRIFIED HINGE.
11. DOOR TO BE CONTROLLED BY CARD READER/FOB. REFER TO ELECTRICAL DRAWINGS FOR ROUGH IN.
12. PROVIDE POWER ASSISTED OPERATOR ON ONE LEAF OF DOUBLE DOORS.
13. MOTOR OPERATED INSULATED OVERHEAD SECTIONAL DOOR WITH VISION PANELS. VISION PANEL LOCATION TO BE DETERMINED IN SUBMITTAL PROCESS.

GENERAL RESTROOM PLAN NOTES:

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

A. FOR GENERAL NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC. SEE SHEET G–301.
B. DEPTH OF ALL TOILET ENCLOSURES SHALL BE A MINIMUM OF 5'–0" CLEAR INSIDE DIMENSION UNLESS NOTED OTHERWISE.
C. REFER TO PLUMBING DRAWINGS FOR FIXTURE TYPES.
D. REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS.
E. COORDINATE HEIGHT OF GRAB BAR WITH TANK OF FLOOR MOUNTED WATER CLOSET OR FLUSH VALVE OF WALL MOUNTED WATER CLOSET.
F. INSTALL LAVATORIES AND URINALS AT 2'–6" ON CENTER MINIMUM UNLESS NOTED OTHERWISE.

RESTROOM PLAN NOTES:

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

(A) ACCESSIBLE FIXTURE. SEE PLUMBING.
(B) TOILET PAPER HOLDER. (OFCI)
(C) 3'–0" HANDICAPPED GRAB BAR.
(D) 3'–6" HANDICAPPED GRAB BAR.
(E) 18" VERTICAL HANDICAPPED GRAB BAR.
(F) TOILET PARTITION.
(G) URINAL SCREEN WALL.
(H) 2'–0" W x 3'–0" H MIRROR WITH BOTTOM OF REFLECTIVE SURFACE MOUNTED AT 40"A.F.F.
(J) ACCESSIBLE FIXTURE (LAVATORY/URINAL). SEE PLUMBING DRAWINGS.
(K) PAPER TOWEL DISPENSER. (OFCI)
(L) 24"x24" ACCESS PANEL. MOUNT TOP OF PANEL AT 5'–4" A.F.F. COORDINATE LOCATION WITH SENSOR HEIGHT.
(M) SOAP DISPENSER. (OFCI)
(N) FLOOR DRAIN. SEE PLUMBING DRAWINGS.
(P) FEMININE NAPKIN DISPOSAL.
(Q) FEMININE NAPKIN DISPENSER.
(R) 2'–0" x 5'–0" MIRROR BOTTOM AT 1'–4" A.F.F.
(S) MOP SINK. SEE PLUMBING.
(W) BABY CHANGING TABLE.

GENERAL PLAN NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO G1 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) 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. REFER TO FINISH PLANS FOR LOCATION AND EXTENT OF FINISHED FLOOR AND WALL MATERIAL.
K. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSED, EXCEPT AT MASONRY BULKHEADS AND EXTERIOR WINDOW JAMBS.

PLAN LEGEND:

INDICATES STOREFRONT, CURTAIN WALL, OR WINDOW SYSTEM. REFER TO A–603 BUILDING 'D' ONLY FOR ELEVATIONS AND DETAILS.

INDICATES WALL TYPES REFER TO G–301 FOR WALL THICKNESS, HEIGHT, AND COMPOSITION.

PLAN NOTES:

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

(1) 2X2 ACOUSTICAL CEILING TILE.
(2) EXPOSED STRUCTURE PAINTED.
(3) ALUMINUM STOREFRONT.
(4) CANOPY.
(5) OVERHEAD POWER CHORD REELS REF "E" SERIES DRAWINGS.
(6) SCHOOL BUS OUTLINE POSITION.
(7) 12'–0" X12'–0" MOTOR OPERATED SECTIONAL OVERHEAD INSULATED GARAGE DOOR AND TRACK WITH VISION PANELS. VISION PANEL LOCATION TO BE DETERMINED IN SUBMITTAL PROCESS.
(8) 6" DIAMETER CONCRETE FILLED STEEL PIPE BOLLARDS REFER TO SPECIFICATIONS.
(9) PREFINISHED METAL WALL AND CEILING LINE PANELS WITH SEAM RAPE AND CASKETED SCREWS. SEE BUILDING SECTIONS.
(10) PEMB (PRE–ENGINEERED METAL BUILDING)–INSULATED WALLS MIN. R–13 AND ROOF MIN. R–19.
(11) EXTERIOR SINGLE DOORS (3'–0"W) AND DOUBLE (6'–0"W) TO BE FRP WITH ALUMINUM FRAME.
(12) ALL INTERIOR DOORS TO BE 3'–0" SOLID CORE WOOD WITH HOLLOW METAL FRAMES UNLESS NOTED OTHERWISE.
(13) ALL INTERIOR WALLS TO BE TYPE B8 AND INTERIOR CHASE WALLS TO BE TYPE B6.
(14) FLOOR DRAIN. SEE PLUMBING.
(15) CONCRETE WALK. SEE CIVIL.
(16) PLASTIC LAMINATED MAILBOXES. SEE A700 SERIES.
(17) 4'–0"W X 6'–0"H FIXED ALUMINUM WINDOW.
(18) HOLLOW METAL FRAMED WINDOW.
(19) ELECTRIC WATER COOLER. ADA ACCESSIBLE. SEE PLUMBING.
(20) 3/4" FIRE TREATED PLYWOOD FROM FLOOR TO 8'–0" A.F.F. ON ALL SIDES OF INTERIOR PEMB GIRT SYSTEM. HOLD OFF FLOOR 1/2", PAINT.
(21) ELECTRICAL EQUIPMENT. SEE ELECTRICAL.
(22) DOOR ACCESS CONTROL.
(23) KITCHENETTE: BASE/WALL CABINETS, SS SINK. SEE A700 SERIES.
(24) HOLLOW METAL DOOR AND FRAME.
(25) 4" THICK 5'–0" X 5'–0" MIN. CONCRETE STOOP SLOPE AWAY FROM DOOR AT 1/4:12. TURN EDGES DOWN.
(26) FURNACE. SEE MECHANICAL.
(27) SOLID PLASTIC TOILET PARTITIONS. REFER TO SPECIFICATIONS.
(28) AUTOMATIC BUS WASHING SYSTEM. REFER TO SPECIFICATIONS.
(29) BRICK VENEER OVER PEMB.
(30) INSULATED METAL PANELS OVER 8" CMU WALL CONSTRUCTION.
(31) WALL LOUVER. SEE MECHANICAL.
(32) MILLWORK. SEE A700 SERIES.
(33) SPECIALTY BACK WALL (USE OF ACRYLIC).
(34) MANUAL OPERATION FOLDING WALL SYSTEM WITH POCKET DOORS.
(35) VMC, PANELIZED BACK WALL (WOOD OR P.LAM) W/ REPRESSED TECHNOLOGY BOARDS.
(36) BUS WASH EQUIPMENT. SEE PLUMBING.
(37) IN–GROUND BUS LIFT. SEE STRUCTURAL.
(38) FIRE CONNECTION. SEE CIVIL.
(39) TRENCH DRAIN CONNECT TO OIL SEPARATOR. SEE PLUMBING.
(40) REFRIGERATOR BY OWNER.
(41) PREFINISHED METAL DOWNSPOUT WITH ALUMINUM BOOT. COORDINATE WITH CIVIL.
(42) OIL SEPARATOR. SEE PLUMBING.
(43) ACCESS DOOR 16" X 24".
(44) EYEWASH STATION. SEE PLUMBING.
(45) MOP BASIN. CONNECT TO OIL SEPARATOR. SEE PLUMBING.
(46) CLEAN SINK. CONNECT TO OIL SEPARATOR. SEE PLUMBING.
(47) 12'–0" X 12'–0" MOTOR OPERATED ROLL–UP DOOR WITH VISION PANEL.
(48) ADA 36"X36" TRANSFER SHOWER. SEE PLUMBING.
(49) ALTERNATE: CHECKER PLATE STEEL STAIR.
(50) ALTERNATE: METAL GUARD RAIL.
(51) WALL EXHAUST FAN MOUNTED TO ROOF STRUCTURE. SEE MECHANICAL EQUIPMENT SCHEDULE FOR UNIT WEIGHT.
(52) UNIT HEATER MOUNTED TO ROOF STRUCTURE. SEE MECHANICAL EQUIPMENT SCHEDULE FOR UNIT WEIGHT.
(53) ROOF EXHAUST FAN. SEE MECHANICAL EQUIPMENT SCHEDULE FOR UNIT WEIGHT.
(54) WALL MOUNT EXHAUST LOUVER ABOVE DOOR. SEE MECHANICAL.
(55) PACKAGE A/C UNIT. SEE MECHANICAL.
(56) FRP PANEL ON FIRE RETARDANT TREATED PLYWOOD 8'–0" HIGH.
(57) PEMB CROSS BRACING. PAINT.
(58) METAL LOCKERS (ONE ADA).
(59) ADA CLOTHES HOOK.
(60) FIRE EXTINGUISHER AND CABINET.
(61) ALTERNATE: APPROXIMATE LOCATION OF ROOFTOP HVAC UNIT. SEE MECHANICAL. PROVIDE ROOF CURB FOR STANDARD PEMB ROOFING.
(62) WALL MOUNTED ELECTRIC CABINET HEATER. SEE MECHANICAL.
(63) 12" WIDE SHELF WITH CLOTHES ROD. SEE A700 SERIES.
(64) CAST–IN–PLACE CONCRETE WALL 4'–0" HIGH.
(65) POWER RECEPTACLE. SEE ELECTRICAL.
(66) BASE/WALL CABINETS. SEE A700 SERIES.
(67) 8'–0" X 8'–0" SECTIONAL OVERHEAD INSULATED DOOR AND TRACK.
(68) AUTOMATIC DOOR ACTUATOR FOR HC/ADA DOOR OPERATOR. COORDINATE WITH DOOR SCHEDULE AND ELECTRICAL. PROVIDE CONDUIT AND BOX IN MASONRY PIER, GYPSUM BOARD WALL OR ALUMINUM MULLION.
(69) WALL MOUNTED ELECTRICAL CABINET HEATER. SEE MECHANICAL.
(70) CHAIN–LINK FENCE ENCLOSURE. 8'–0" HIGH.
(71) ALTERNATE: IN–GROUND BUS LIFT AT SECOND SERVICE POSITION.
(72) FIRE DEPARTMENT KNOX BOX. COORDINATE INSTALL LOCATION WITH LOCAL FIRE DEPARTMENT. TYPICAL (4) BUILDINGS.
(73) FIRE DEPARTMENT SPRINKLER CONNECTION AND ALARM BELL SEE FIRE PROTECTION SHEETS.

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

GIBRALTAR DESIGN
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Indianapolis, IN 46260
Homepage www.GibraltarDesign.com
Email info@GibraltarDesign.com
Phone 317.580.5777 Fax 317.580.5778

PROJECT 20–141
DATE 05/17/21
COORDINATED BY CD
DRAWN BY JKF, AB
CHECKED BY JPB

MICHAEL J. ROSSLER REGISTERED NO. AR11600005 STATE OF INDIANA ARCHITECT

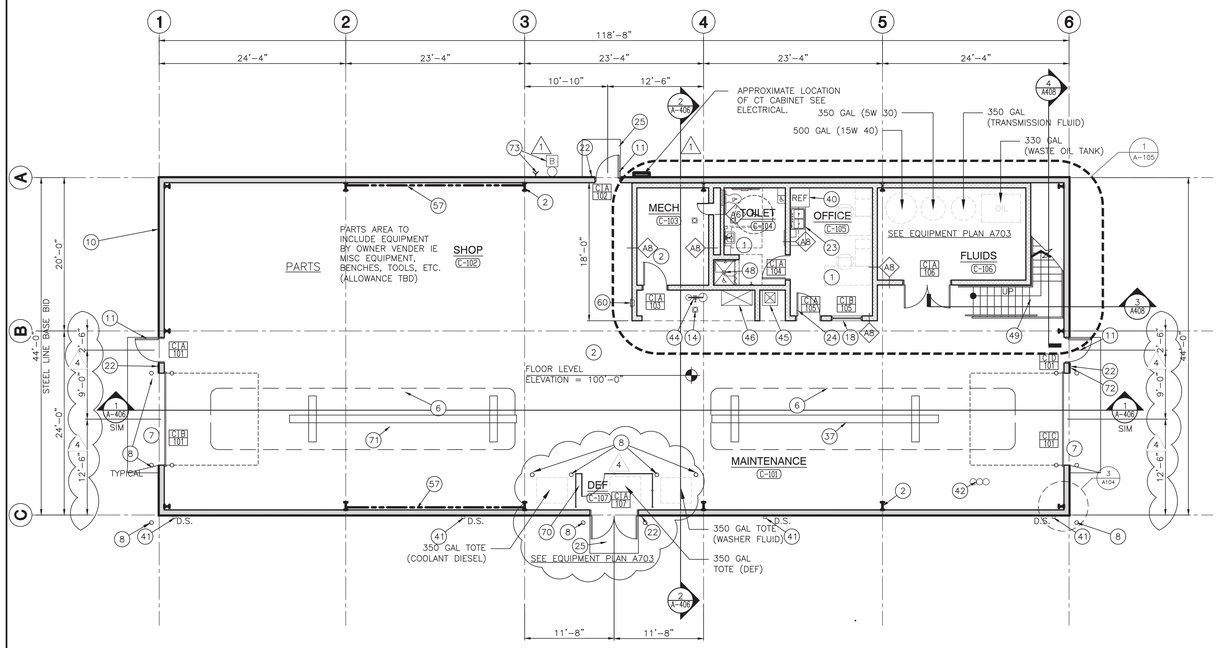
REVISIONS

MARK	DATE	ISSUED FOR
1	05/28/21	ADDENDUM #1
2	06/03/21	ADDENDUM #2
3	06/08/21	ADDENDUM #3
4	06/10/21	ADDENDUM #4

DRAWING
FLOOR PLAN
MAINTENANCE BUILDING
BUILDING B

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
A-103



MECHANICS BUILDING PLAN
BUILDING C - BASE BID

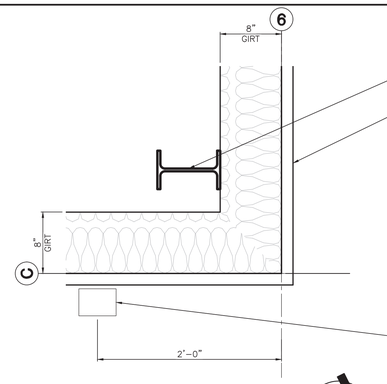
1/A-104 SCALE: 1/8" = 1'-0"

NORTH

MECHANICS BUILDING PLAN
BUILDING C - ALTERNATE

2/A-104 SCALE: 1/8" = 1'-0"

NORTH



2/3 A-104 DETAIL: PLAN

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

NORTH

GENERAL PLAN NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO G1 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) 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. REFER TO FINISH PLANS FOR LOCATION AND EXTENT OF FINISHED FLOOR AND WALL MATERIAL.

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

PLAN LEGEND:

INDICATES STOREFRONT, CURTAIN WALL, OR WINDOW SYSTEM. REFER TO A-603 BUILDING 'D' ONLY FOR ELEVATIONS AND DETAILS.

INDICATES WALL TYPES REFER TO G-301 FOR WALL THICKNESS, HEIGHT, AND COMPOSITION.

PLAN NOTES:

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

1. 2X2 ACOUSTICAL CEILING TILE.
2. EXPOSED STRUCTURE PAINTED.
3. ALUMINUM STOREFRONT.
4. CANOPY.
5. OVERHEAD POWER CHORD REELS REF "E" SERIES DRAWINGS.
6. SCHOOL BUS OUTLINE POSITION.
7. 12'-0" X12'-0" MOTOR OPERATED SECTIONAL OVERHEAD INSULATED GARAGE DOOR AND TRACK WITH VISION PANELS. VISION PANEL LOCATION TO BE DETERMINED IN SUBMITTAL PROCESS.
8. 6" DIAMETER CONCRETE FILLED STEEL PIPE BOLLARDS. REFER TO SPECIFICATIONS.
9. PREFINISHED METAL WALL AND CEILING LINE PANELS WITH SEAM RAPE AND GASKETED SCREWS. SEE BUILDING SECTIONS.
10. PEMB (PRE-ENGINEERED METAL BUILDING)-INSULATED WALLS MIN. R-13 AND ROOF MIN. R-19.
11. EXTERIOR SINGLE DOORS (3'-0"W) AND DOUBLE (6'-0"W) TO BE FRP WITH ALUMINUM FRAME.
12. ALL INTERIOR DOORS TO BE 3'-0" SOLID CORE WOOD WITH HOLLOW METAL FRAMES UNLESS NOTED OTHERWISE.
13. ALL INTERIOR WALLS TO BE TYPE B8 AND INTERIOR CHASE WALLS TO BE TYPE B6.
14. FLOOR DRAIN. SEE PLUMBING.
15. CONCRETE WALK. SEE CIVIL.
16. PLASTIC LAMINATED MAILBOXES. SEE A700 SERIES.
17. 4'-0"W X 6'-0"H FIXED ALUMINUM WINDOW.
18. HOLLOW METAL FRAMED WINDOW.
19. ELECTRIC WATER COOLER. ADA ACCESSIBLE. SEE PLUMBING.
20. 3/4" FIRE TREATED PLYWOOD FROM FLOOR TO 8'-0" A.F.F. ON ALL SIDES OF INTERIOR PEMB GIRT SYSTEM. HOLD OFF FLOOR 1/2". PAINT.
21. ELECTRICAL EQUIPMENT. SEE ELECTRICAL.
22. DOOR ACCESS CONTROL.
23. KITCHENETTE: BASE/WALL CABINETS, SS SINK. SEE A700 SERIES.
24. HOLLOW METAL DOOR AND FRAME.
25. 4" THICK 5'-0" X 5'-0" MIN. CONCRETE STOOP SLOPE AWAY FROM DOOR AT 1/4:12. TURN EDGES DOWN.
26. FURNACE. SEE MECHANICAL.
27. SOLID PLASTIC TOILET PARTITIONS. REFER TO SPECIFICATIONS.
28. AUTOMATIC BUS WASHING SYSTEM. REFER TO SPECIFICATIONS.
29. BRICK VENEER OVER PEMB.
30. INSULATED METAL PANELS OVER 8" CMU WALL CONSTRUCTION.
31. WALL LOUVER. SEE MECHANICAL.
32. MILLWORK. SEE A700 SERIES.
33. SPECIALTY BACK WALL (USE OF ACRYLIC).
34. MANUAL OPERATION FOLDING WALL SYSTEM WITH POCKET DOORS.
35. VMC, PANELIZED BACK WALL (WOOD OR P.LAM) W/ REPRESSED TECHNOLOGY BOARDS.
36. BUS WASH EQUIPMENT. SEE PLUMBING.
37. IN-GROUND BUS LIFT. SEE STRUCTURAL.
38. FIRE CONNECTION. SEE CIVIL.
39. TRENCH DRAIN CONNECT TO OIL SEPARATOR. SEE PLUMBING.
40. REFRIGERATOR BY OWNER.
41. PREFINISHED METAL DOWNSPOUT WITH ALUMINUM BOOT. COORDINATE WITH CIVIL.
42. OIL SEPARATOR. SEE PLUMBING.
43. ACCESS DOOR 16" X 24".
44. EYEWASH STATION. SEE PLUMBING.
45. MOP BASIN. CONNECT TO OIL SEPARATOR. SEE PLUMBING.
46. CLEAN SINK. CONNECT TO OIL SEPARATOR. SEE PLUMBING.
47. 12'-0" X 12'-0" MOTOR OPERATED ROLL-UP DOOR WITH VISION PANEL.
48. ADA 36"X36" TRANSFER SHOWER. SEE PLUMBING.
49. ALTERNATE: CHECKER PLATE STEEL STAIR.
50. ALTERNATE: METAL GUARD RAIL.
51. WALL EXHAUST FAN MOUNTED TO ROOF STRUCTURE. SEE MECHANICAL EQUIPMENT SCHEDULE FOR UNIT WEIGHT.
52. UNIT HEATER MOUNTED TO ROOF STRUCTURE. SEE MECHANICAL EQUIPMENT SCHEDULE FOR UNIT WEIGHT.
53. ROOF EXHAUST FAN. SEE MECHANICAL EQUIPMENT SCHEDULE FOR UNIT WEIGHT.
54. WALL MOUNT EXHAUST LOUVER ABOVE DOOR. SEE MECHANICAL.
55. PACKAGE A/C UNIT. SEE MECHANICAL.
56. FRP PANEL ON FIRE RETARDANT TREATED PLYWOOD 8'-0" HIGH.
57. PEMB CROSS BRACING. PAINT.
58. METAL LOCKERS (ONE ADA).
59. ADA CLOTHES HOOK.
60. FIRE EXTINGUISHER AND CABINET.
61. ALTERNATE: APPROXIMATE LOCATION OF ROOFTOP HVAC UNIT. SEE MECHANICAL. PROVIDE ROOF CURB FOR STANDARD PEMB ROOFING.
62. WALL MOUNTED ELECTRIC CABINET HEATER. SEE MECHANICAL.
63. 12" WIDE SHELF WITH CLOTHES ROD. SEE A700 SERIES.
64. CAST-IN-PLACE CONCRETE WALL 4'-0" HIGH.
65. POWER RECEPTACLE. SEE ELECTRICAL.
66. BASE/WALL CABINETS. SEE A700 SERIES.
67. 8'-0" X 8'-0" SECTIONAL OVERHEAD INSULATED DOOR AND TRACK.
68. AUTOMATIC DOOR ACTUATOR FOR HC/ADA DOOR OPERATOR. COORDINATE WITH DOOR SCHEDULE AND ELECTRICAL. PROVIDE CONDUIT AND BOX IN MASONRY PIER, GYPSUM BOARD WALL OR ALUMINUM MULLION.
69. WALL MOUNTED ELECTRICAL CABINET HEATER. SEE MECHANICAL.
70. CHAIN-LINK FENCE ENCLOSURE. 8'-0" HIGH.
71. ALTERNATE: IN-GROUND BUS LIFT AT SECOND SERVICE POSITION.
72. FIRE DEPARTMENT KNOX BOX. COORDINATE INSTALL LOCATION WITH LOCAL FIRE DEPARTMENT. TYPICAL (4) BUILDINGS.
73. FIRE DEPARTMENT SPRINKLER CONNECTION AND ALARM BELL SEE FIRE PROTECTION SHEETS.

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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PROJECT 20-141
DATE 05/17/21
COORDINATED BY CD
DRAWN BY JKF, AB
CHECKED BY JPB

MICHAEL L. ROSSELLO REGISTERED NO. AR11600005 STATE OF INDIANA ARCHITECT

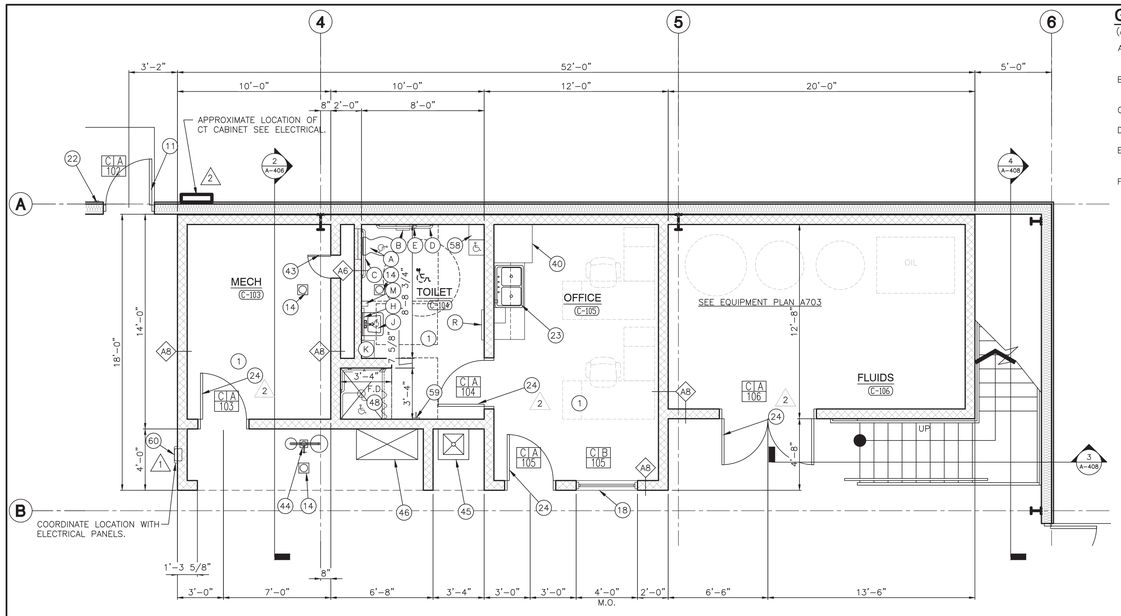
REVISIONS

MARK	DATE	ISSUED FOR
1	05/28/21	ADDENDUM #1
2	06/03/21	ADDENDUM #2
3	06/08/21	ADDENDUM #3
4	06/10/21	ADDENDUM #4

DRAWING
FLOOR PLANS
MECHANICS BUILDING
BUILDING C

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
A-104



1 A-105 BUILDING 'C' MECHANICS ENLARGED PLAN

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

GLASS SCHEDULE

MK	GLASS TYPES
A	1/4" CLEAR TEMPERED
B	1" INSUL. GLASS
C	1" INSUL. SPANDREL GLASS
D	1/4" FIRE RATED
E	3/8" LAMINATED SAFETY GLASS

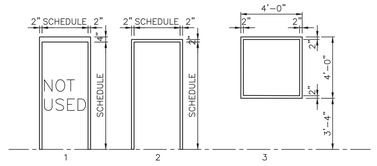
LOUVER SCHEDULE

MK	LOUVER SIZE

DOOR AND FRAME SCHEDULE

NO.	DESCRIPTION	TYPE	DOOR SIZE (WxH) (INCHES)	MATERIAL	LOU	GLASS: DOOR	GLASS: SIDE LGT	GLASS: TRA	FRAME: MAT'L	FRAME: WIDTH	FRAME: JAMB	FRAME: HEAD	FRAME: SILL	FRAME: ELEV	LABEL	HARDWARE: EXIT DEVICE	HARDWARE: CLOSER	NOTES
101–A	SINGLE	2	36 x 86	FRP	–	B	–	–	ALUM	4 1/2"	5	5	–	2	–	YES	YES	4,10,11
101–B	OVERHEAD SECTIONAL	4	144 x 168 4	STEEL	–	–	–	–	STEEL	–	2 A502	2 A403	–	–	–	–	–	13 4
101–C	OVERHEAD SECTIONAL	4	144 x 168 4	STEEL	–	–	–	–	STEEL	–	2 A502	2 A403	–	–	–	–	–	13 4
101–D	SINGLE	2	36 x 86	FRP	–	B	–	–	ALUM	4 1/2"	5	5	–	2	–	YES	YES	4,10,11
101–E	OVERHEAD SECTIONAL ALTERNATE	4	144 x 168 4	STEEL	–	–	–	–	STEEL	–	2 A502	2 A403	–	–	–	–	–	13 4
101–F	OVERHEAD SECTIONAL ALTERNATE	4	144 x 168 4	STEEL	–	–	–	–	STEEL	–	2 A502	2 A403	–	–	–	–	–	13 4
102–A	SINGLE	2	36 x 86	FRP	–	B	–	–	ALUM	4 1/2"	5	5	–	2	–	YES	YES	4,10,11
103–A	SINGLE	1	36 x 86	HM	–	–	–	–	HM	8 3/4"	1	1	–	2	–	–	–	–
104–A	SINGLE	1	36 x 86	HM	–	–	–	–	HM	8 3/4"	1	1	–	2	–	–	–	–
105–A	SINGLE	3	36 x 86	HM	–	A	–	–	HM	8 3/4"	1	1	–	2	–	–	–	–
105–B	FRAMED WINDOW	–	–	–	–	A	–	–	HM	7 5/8"	2	2	2	3	–	–	–	4
106–A	DOUBLE	1	72 X 86	HM	–	–	–	–	HM	8 3/4"	1	1	–	2	–	–	–	–
107–A	DOUBLE	1	72 x 86	FRP	–	–	–	–	ALUM	4 1/2"	6	6	–	2	–	–	YES	4,10,11 2

4



FRAME TYPE ELEVATIONS

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

GENERAL DOOR NOTES

A. JAMB, HEAD, AND SILL DO NOT SHOW WALL CONSTRUCTION. SEE FLOOR PLAN FOR WALL MATERIALS. REFER TO A800 SERIES DRAWINGS FOR WALL FINISHES.
B. SEAL ALL JAMBS AND HEADS WHERE FRAMES MEET EXPOSED MASONRY AND/OR GYPSUM BOARD.
C. PROVIDE A SCRIBE MOLD AT ALL EXTERIOR DOOR FRAMES AND WHERE NOTED ON DRAWINGS. SCRIBE MOLD TO BE 3/4" X 3/4" METAL AT EXTERIOR OF METAL FRAMES AND AT BOTH SIDES OF ALUMINUM FRAMES. SET SCRIBE MOLDS IN SEALANT.
D. PROVIDE GLAZING AND GLASS STOPS AS REQUIRED.
E. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS, BOTH NEW AND EXISTING.
F. SHIM SPACE IS NOT SHOWN ON DOOR FRAME ELEVATIONS FOR ALUMINUM STOREFRONT. TAKE THESE DIMENSIONS INTO ACCOUNT AND ADJUST DIMENSIONS ACCORDINGLY.
G. FOR DOOR POSITION WITHIN WALL REFER TO FRAME MOUNTING DETAIL 2–A601.
H. FOR ELECTRICAL ROUGH–IN AT DOORS REFER TO DETAIL 1–A601.
I. FOR HOLLOW METAL FRAME ELEVATIONS (HM) REFER TO A105. FOR HOLLOW METAL (HM) FRAME PROFILES REFER TO A601.
J. FOR ALUMINUM STOREFRONT ELEVATIONS (SF) REFER TO A105. FOR STOREFRONT (SF) FRAME PROFILES REFER TO A601.
K. GLASS NOTED IN SIDELIGHT COLUMN FOR STOREFRONT WITH NO DOOR APPLIES TO ALL OPENINGS IN FRAME UNLESS NOTED OTHERWISE.
L. REFER TO FLOOR PLANS FOR LOCATIONS OF NEW AND EXISTING ADA PUSH PADS FOR POWER ASSISTED OPERATORS.

DOOR SCHEDULE NOTES (REMARKS):

1. INSULATED OVERHEAD COILING DOOR. MOTOR OPERATED.
2. FIELD VERIFY WALL THICKNESSES AND OPENING DIMENTSIONS FOR DOORS AND FRAMES PRIOR TO STARTING CONSTRUCTION.
3. INSULATED DOOR.
4. PROVIDE ALUMINUM THRESHOLD SET IN FULL BED OF MASTIC.
5. KEYED REMOVABLE MULLION.
6. WALL MOUNTED ELECTROMAGNETIC DOOR HOLDER(S) BY DIVISION 26, DOOR MOUNTED ARMATURE SHALL BE INSTALLED BY HARDWARE INSTALLER.
7. PROVIDE HOLD OPEN ON EACH DOOR.
8. (NOT USED)
9. PROVIDE DOOR RELEASE ON AI PHONE LOCATED AT RECEPTION DESK.
10. PANIC DEVICE TO HAVE ELECTRIC LATCH BOLT. PREPARE FRAME FOR ELECTRIFIED HINGE.
11. DOOR TO BE CONTROLLED BY CARD READER/FOB. REFER TO ELECTRICAL DRAWINGS FOR ROUGH IN.
12. PROVIDE POWER ASSISTED OPERATOR ON ONE LEAF OF DOUBLE DOORS.
13. MOTOR OPERATED INSULATED OVERHEAD SECTIONAL DOOR WITH VISION PANELS. VISION PANEL LOCATION TO BE DETERMINED IN SUBMITTAL PROCESS.

4

GENERAL RESTROOM PLAN NOTES:

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

A. FOR GENERAL NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC. SEE SHEET G–301.
B. DEPTH OF ALL TOILET ENCLOSURES SHALL BE A MINIMUM OF 5'–0" CLEAR INSIDE DIMENSION UNLESS NOTED OTHERWISE.
C. REFER TO PLUMBING DRAWINGS FOR FIXTURE TYPES.
D. REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS.
E. COORDINATE HEIGHT OF GRAB BAR WITH TANK OF FLOOR MOUNTED WATER CLOSET OR FLUSH VALVE OF WALL MOUNTED WATER CLOSET.
F. INSTALL LAVATORIES AND URINALS AT 2'–6" ON CENTER MINIMUM UNLESS NOTED OTHERWISE.

RESTROOM PLAN NOTES:

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

A ACCESSIBLE FIXTURE. SEE PLUMBING.
B TOILET PAPER HOLDER. (OFCI)
C 3'–0" HANDICAPPED GRAB BAR.
D 3'–6" HANDICAPPED GRAB BAR.
E 18" VERTICAL HANDICAPPED GRAB BAR.
F TOILET PARTITION.
G URINAL SCREEN WALL.
H 2'–0" W x 3'–0" H MIRROR WITH BOTTOM OF REFLECTIVE SURFACE MOUNTED AT 40"A.F.F.
J ACCESSIBLE FIXTURE (LAVATORY/URINAL). SEE PLUMBING DRAWINGS.
K PAPER TOWEL DISPENSER. (OFCI)
L 24"x24" ACCESS PANEL. MOUNT TOP OF PANEL AT 5'–4" A.F.F. COORDINATE LOCATION WITH SENSOR HEIGHT.
M SOAP DISPENSER. (OFCI)
N FLOOR DRAIN. SEE PLUMBING DRAWINGS.
P FEMININE NAPKIN DISPOSAL.
Q FEMININE NAPKIN DISPENSER.
R 2'–0" x 5'–0" MIRROR BOTTOM AT 1'–4" A.F.F.
S MOP SINK. SEE PLUMBING.

W BABY CHANGING TABLE.

GENERAL PLAN NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO G1 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) 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. REFER TO FINISH PLANS FOR LOCATION AND EXTENT OF FINISHED FLOOR AND WALL MATERIAL.
K. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSED, EXCEPT AT MASONRY BULKHEADS AND EXTERIOR WINDOW JAMBS.

PLAN LEGEND:

INDICATES STOREFRONT, CURTAIN WALL, OR WINDOW SYSTEM. REFER TO A–603 BUILDING 'D' ONLY FOR ELEVATIONS AND DETAILS.

INDICATES WALL TYPES REFER TO G–301 FOR WALL THICKNESS, HEIGHT, AND COMPOSITION.

PLAN NOTES:

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

1 2X2 ACOUSTICAL CEILING TILE.
2 EXPOSED STRUCTURE PAINTED.
3 ALUMINUM STOREFRONT.
4 CANOPY.
5 OVERHEAD POWER CHORD REELS REF "E" SERIES DRAWINGS.
6 SCHOOL BUS OUTLINE POSITION.
7 12'–0" X12'–0" MOTOR OPERATED SECTIONAL OVERHEAD INSULATED GARAGE DOOR AND TRACK WITH VISION PANELS. VISION PANEL LOCATION TO BE DETERMINED IN SUBMITTAL PROCESS. 4
8 6" DIAMETER CONCRETE FILLED STEEL PIPE BOLLARDS REFER TO SPECIFICATIONS.
9 PREFINISHED METAL WALL AND CEILING LINE PANELS WITH SEAM RAPE AND GASKETED SCREWS. SEE BUILDING SECTIONS.
10 PEMB (PRE–ENGINEERED METAL BUILDING)–INSULATED WALLS MIN. R–13 AND ROOF MIN. R–19. 4
11 EXTERIOR SINGLE DOORS (3'–0"W) AND DOUBLE (6'–0"W) TO BE FRP WITH ALUMINUM FRAME.
12 ALL INTERIOR DOORS TO BE 3'–0" SOLID CORE WOOD WITH HOLLOW METAL FRAMES UNLESS NOTED OTHERWISE.
13 ALL INTERIOR WALLS TO BE TYPE B8 AND INTERIOR CHASE WALLS TO BE TYPE B6.
14 FLOOR DRAIN. SEE PLUMBING.
15 CONCRETE WALK. SEE CIVIL.
16 PLASTIC LAMINATED MAILBOXES. SEE A700 SERIES.
17 4'–0"W X 6'–0"H FIXED ALUMINUM WINDOW.
18 HOLLOW METAL FRAMED WINDOW.
19 ELECTRIC WATER COOLER. ADA ACCESSIBLE. SEE PLUMBING.
20 3/4" FIRE TREATED PLYWOOD FROM FLOOR TO 8'–0" A.F.F. ON ALL SIDES OF INTERIOR PEMB GIRT SYSTEM. HOLD OFF FLOOR 1/2". PAINT.
21 ELECTRICAL EQUIPMENT. SEE ELECTRICAL.
22 DOOR ACCESS CONTROL.
23 KITCHENETTE: BASE/WALL CABINETS, SS SINK. SEE A700 SERIES.
24 HOLLOW METAL DOOR AND FRAME.
25 4" THICK 5'–0" X 5'–0" MIN. CONCRETE STOOP SLOPE AWAY FROM DOOR AT 1/4:12. TURN EDGES DOWN.
26 FURNACE. SEE MECHANICAL.
27 SOLID PLASTIC TOILET PARTITIONS. REFER TO SPECIFICATIONS.
28 AUTOMATIC BUS WASHING SYSTEM. REFER TO SPECIFICATIONS.
29 BRICK VENEER OVER PEMB.
30 INSULATED METAL PANELS OVER 8" CMU WALL CONSTRUCTION.
31 WALL LOUVER. SEE MECHANICAL.
32 MILLWORK. SEE A700 SERIES.
33 SPECIALTY BACK WALL (USE OF ACRYLIC).
34 MANUAL OPERATION FOLDING WALL SYSTEM WITH POCKET DOORS.
35 VMC, PANELIZED BACK WALL (WOOD OR P.LAM) W/ REPRESSED TECHNOLOGY BOARDS.
36 BUS WASH EQUIPMENT. SEE PLUMBING.
37 IN–GROUND BUS LIFT. SEE STRUCTURAL.
38 FIRE CONNECTION. SEE CIVIL.
39 TRENCH DRAIN CONNECT TO OIL SEPARATOR. SEE PLUMBING.
40 REFRIGERATOR BY OWNER.
41 PREFINISHED METAL DOWNSPOUT WITH ALUMINUM BOOT. COORDINATE WITH CIVIL.
42 OIL SEPARATOR. SEE PLUMBING.
43 ACCESS DOOR 16" X 24".
44 EYEWASH STATION. SEE PLUMBING.
45 MOP BASIN. CONNECT TO OIL SEPARATOR. SEE PLUMBING.
46 CLEAN SINK. CONNECT TO OIL SEPARATOR. SEE PLUMBING.
47 12'–0" X 12'–0" MOTOR OPERATED ROLL–UP DOOR WITH VISION PANEL. 2
48 ADA 36"X36" TRANSFER SHOWER. SEE PLUMBING.
49 ALTERNATE: CHECKER PLATE STEEL STAIR.
50 ALTERNATE: METAL GUARD RAIL.
51 WALL EXHAUST FAN MOUNTED TO ROOF STRUCTURE. SEE MECHANICAL EQUIPMENT SCHEDULE FOR UNIT WEIGHT.
52 UNIT HEATER MOUNTED TO ROOF STRUCTURE. SEE MECHANICAL EQUIPMENT SCHEDULE FOR UNIT WEIGHT.
53 ROOF EXHAUST FAN. SEE MECHANICAL EQUIPMENT SCHEDULE FOR UNIT WEIGHT.
54 WALL MOUNT EXHAUST LOUVER ABOVE DOOR. SEE MECHANICAL.
55 PACKAGE A/C UNIT. SEE MECHANICAL.
56 FRP PANEL ON FIRE RETARDANT TREATED PLYWOOD 8'–0" HIGH.
57 PEMB CROSS BRACING. PAINT.
58 METAL LOCKERS (ONE ADA).
59 ADA CLOTHES HOOK.
60 FIRE EXTINGUISHER AND CABINET.
61 ALTERNATE: APPROXIMATE LOCATION OF ROOFTOP HVAC UNIT. SEE MECHANICAL. PROVIDE ROOF CURB FOR STANDARD PEMB ROOFING.
62 WALL MOUNTED ELECTRIC CABINET HEATER. SEE MECHANICAL.
63 12" WIDE SHELF WITH CLOTHES ROD. SEE A700 SERIES.
64 CAST–IN–PLACE CONCRETE WALL 4'–0" HIGH.
65 POWER RECEPTACLE. SEE ELECTRICAL.
66 BASE/WALL CABINETS. SEE A700 SERIES.
67 8'–0" X 8'–0" SECTIONAL OVERHEAD INSULATED DOOR AND TRACK.
68 AUTOMATIC DOOR ACTUATOR FOR HC/ADA DOOR OPERATOR. COORDINATE WITH DOOR SCHEDULE AND ELECTRICAL. PROVIDE CONDUIT AND BOX IN MASONRY PIER, GYPSUM BOARD WALL OR ALUMINUM MULLION. 1
69 WALL MOUNTED ELECTRICAL CABINET HEATER. SEE MECHANICAL.
70 CHAIN–LINK FENCE ENCLOSURE. 8'–0" HIGH.
71 ALTERNATE: IN–GROUND BUS LIFT AT SECOND SERVICE POSITION.
72 FIRE DEPARTMENT KNOX BOX. COORDINATE INSTALL LOCATION WITH LOCAL FIRE DEPARTMENT. TYPICAL (4) BUILDINGS. 1
73 FIRE DEPARTMENT SPRINKLER CONNECTION AND ALARM BELL SEE FIRE PROTECTION SHEETS.

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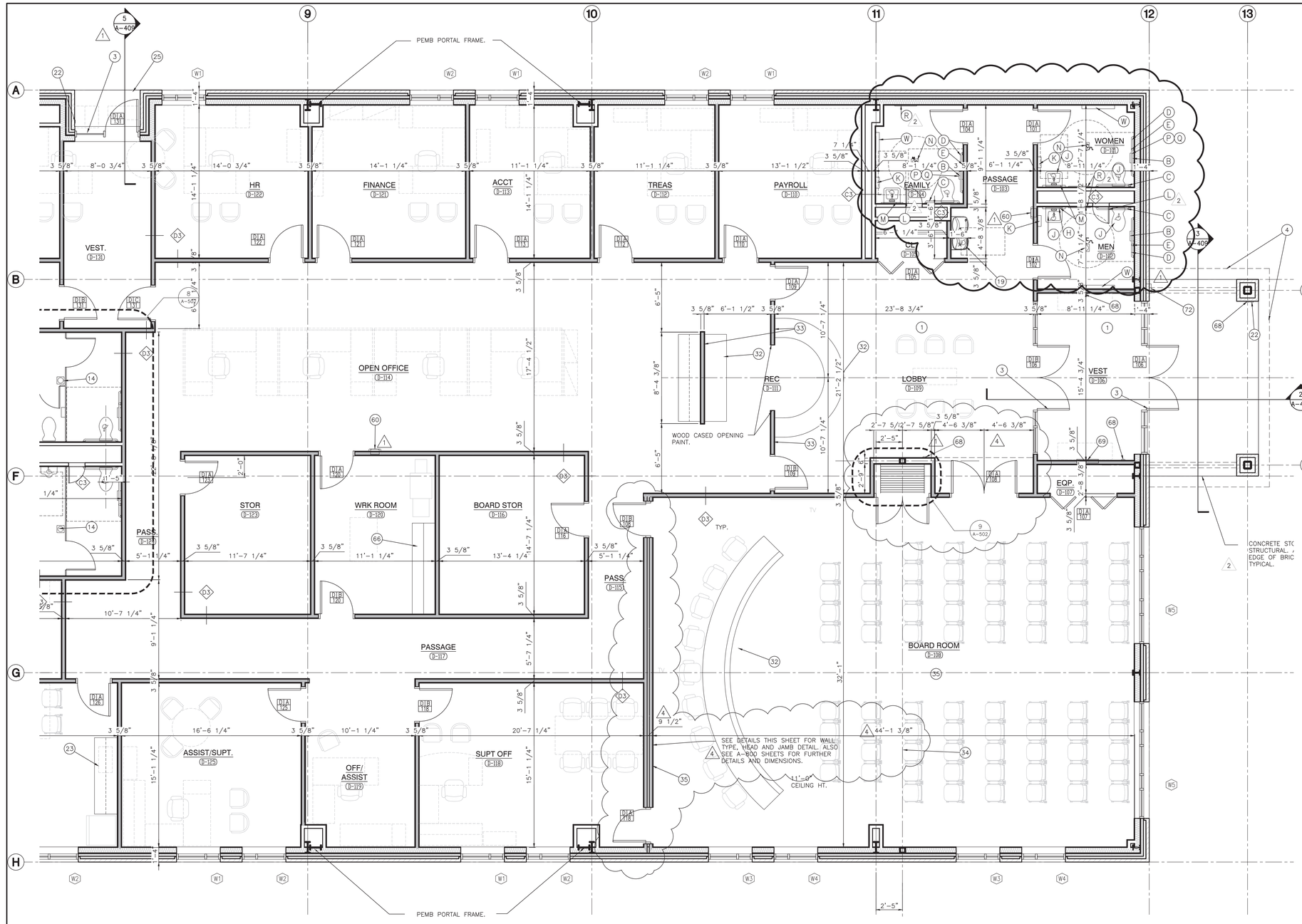
DRAWING
FLOOR PLANS
MECHANICS BUILDING
BUILDING C

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

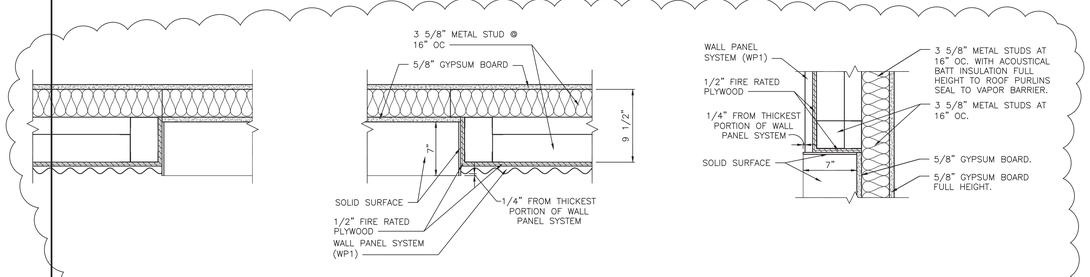
SHEET A-105



RESOURCE CENTER BUILDING D FLOOR PLAN

1/A-104 — SCALE: 1/4" = 1'-0"

NORTH



DETAIL: JAMB SOUTH WALL BOARD ROOM D-108

4/2/A-104 — SCALE: 1 1/2" = 1'-0"

DETAIL: HEAD SOUTH WALL BOARD ROOM D-108

4/3/A-104 — SCALE: 1 1/2" = 1'-0"

GENERAL RESTROOM PLAN NOTES:

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

A. FOR GENERAL NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC. SEE SHEET G-301.

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

C. REFER TO PLUMBING DRAWINGS FOR FIXTURE TYPES.

D. REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN LOCATIONS.

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

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

RESTROOM PLAN NOTES:

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

(A) ACCESSIBLE FIXTURE. SEE PLUMBING.
(B) TOILET PAPER HOLDER. (OFCI)
(C) 3'-0" HANDICAPPED GRAB BAR.
(D) 3'-6" HANDICAPPED GRAB BAR.
(E) 18" VERTICAL HANDICAPPED GRAB BAR.
(F) TOILET PARTITION.
(G) URINAL SCREEN WALL.
(H) 2'-0" W x 3'-0" H MIRROR WITH BOTTOM OF REFLECTIVE SURFACE MOUNTED AT 40"A.F.F.
(J) ACCESSIBLE FIXTURE (LAVATORY/URINAL). SEE PLUMBING DRAWINGS.
(K) PAPER TOWEL DISPENSER. (OFCI)
(L) 24"x24" ACCESS PANEL. MOUNT TOP OF PANEL AT 5'-4" A.F.F. COORDINATE LOCATION WITH SENSOR HEIGHT.
(M) SOAP DISPENSER. (OFCI)
(N) FLOOR DRAIN. SEE PLUMBING DRAWINGS.
(P) FEMININE NAPKIN DISPOSAL.
(Q) FEMININE NAPKIN DISPENSER.
(R) 2'-0" x 5'-0" MIRROR BOTTOM AT 1'-4" A.F.F.
(S) MOP SINK. SEE PLUMBING.

(W) BABY CHANGING TABLE.

GENERAL PLAN NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO G1 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) 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. REFER TO FINISH PLANS FOR LOCATION AND EXTENT OF FINISHED FLOOR AND WALL MATERIAL.

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

PLAN LEGEND:

INDICATES STOREFRONT, CURTAIN WALL, OR WINDOW SYSTEM. REFER TO A-603 BUILDING 'D' ONLY FOR ELEVATIONS AND DETAILS.

INDICATES WALL TYPES REFER TO G-301 FOR WALL THICKNESS, HEIGHT, AND COMPOSITION.

PLAN NOTES:

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

(1) 2X2 ACOUSTICAL CEILING TILE.
(2) EXPOSED STRUCTURE PAINTED.
(3) ALUMINUM STOREFRONT.
(4) CANOPY.
(5) OVERHEAD POWER CHORD REELS REF "E" SERIES DRAWINGS.
(6) SCHOOL BUS OUTLINE POSITION.
(7) 12'-0" X12'-0" MOTOR OPERATED SECTIONAL OVERHEAD INSULATED GARAGE DOOR AND TRACK WITH VISION PANELS. VISION PANEL LOCATION TO BE DETERMINED IN SUBMITTAL PROCESS.
(8) 6" DIAMETER CONCRETE FILLED STEEL PIPE BOLLARDS REFER TO SPECIFICATIONS.
(9) PREFINISHED METAL WALL AND CEILING LINE PANELS WITH SEAM RAPE AND CASKETED SCREWS. SEE BUILDING SECTIONS.
(10) PEMB (PRE-ENGINEERED METAL BUILDING)-INSULATED WALLS MIN. R-13 AND ROOF MIN. R-19.
(11) EXTERIOR SINGLE DOORS(3'-0"W) AND DOUBLE (6'-0"W) TO BE FRP WITH ALUMINUM FRAME.
(12) ALL INTERIOR DOORS TO BE 3'-0" SOLID CORE WOOD WITH HOLLOW METAL FRAMES UNLESS NOTED OTHERWISE.
(13) ALL INTERIOR WALLS TO BE TYPE B8 AND INTERIOR CHASE WALLS TO BE TYPE B6.
(14) FLOOR DRAIN. SEE PLUMBING.
(15) CONCRETE WALK. SEE CIVIL.
(16) PLASTIC LAMINATED MAILBOXES. SEE A700 SERIES.
(17) 4'-0"W X 6'-0"H FIXED ALUMINUM WINDOW.
(18) HOLLOW METAL FRAMED WINDOW.
(19) ELECTRIC WATER COOLER. ADA ACCESSIBLE. SEE PLUMBING.
(20) 3/4" FIRE TREATED PLYWOOD FROM FLOOR TO 8'-0" A.F.F. ON ALL SIDES OF INTERIOR PEMB GIRT SYSTEM. HOLD OFF FLOOR 1/2". PAINT.
(21) ELECTRICAL EQUIPMENT. SEE ELECTRICAL.
(22) DOOR ACCESS CONTROL.
(23) KITCHENETTE: BASE/WALL CABINETS, SS SINK. SEE A700 SERIES.
(24) HOLLOW METAL DOOR AND FRAME.
(25) 4" THICK 5'-0" X 5'-0" MIN. CONCRETE STOOP SLOPE AWAY FROM DOOR AT 1/4:12. TURN EDGES DOWN.
(26) FURNACE. SEE MECHANICAL.
(27) SOLID PLASTIC TOILET PARTITIONS. REFER TO SPECIFICATIONS.
(28) AUTOMATIC BUS WASHING SYSTEM. REFER TO SPECIFICATIONS.
(29) BRICK VENEER OVER PEMB.
(30) INSULATED METAL PANELS OVER 8" CMU WALL CONSTRUCTION.
(31) WALL LOUVER. SEE MECHANICAL.
(32) MILLWORK. SEE A700 SERIES.
(33) SPECIALTY BACK WALL (USE OF ACRYLIC).
(34) MANUAL OPERATION FOLDING WALL SYSTEM WITH POCKET DOORS.
(35) VMC, PANELIZED BACK WALL (WOOD OR P.LAM) W/ REPRESSED TECHNOLOGY BOARDS.
(36) BUS WASH EQUIPMENT. SEE PLUMBING.
(37) IN-GROUND BUS LIFT. SEE STRUCTURAL.
(38) FIRE CONNECTION. SEE CIVIL.
(39) TRENCH DRAIN CONNECT TO OIL SEPARATOR. SEE PLUMBING.
(40) REFRIGERATOR BY OWNER.
(41) PREFINISHED METAL DOWNSPOUT WITH ALUMINUM BOOT. COORDINATE WITH CIVIL.
(42) OIL SEPARATOR. SEE PLUMBING.
(43) ACCESS DOOR 16" X 24".
(44) EYEWASH STATION. SEE PLUMBING.
(45) MOP BASIN. CONNECT TO OIL SEPARATOR. SEE PLUMBING.
(46) CLEAN SINK. CONNECT TO OIL SEPARATOR. SEE PLUMBING.
(47) 12'-0" X 12'-0" MOTOR OPERATED ROLL-UP DOOR WITH VISION PANEL.
(48) ADA 36"X36" TRANSFER SHOWER. SEE PLUMBING.
(49) ALTERNATE: CHECKER PLATE STEEL STAIR.
(50) ALTERNATE: METAL GUARD RAIL.
(51) WALL EXHAUST FAN MOUNTED TO ROOF STRUCTURE. SEE MECHANICAL EQUIPMENT SCHEDULE FOR UNIT WEIGHT.
(52) UNIT HEATER MOUNTED TO ROOF STRUCTURE. SEE MECHANICAL EQUIPMENT SCHEDULE FOR UNIT WEIGHT.
(53) ROOF EXHAUST FAN. SEE MECHANICAL EQUIPMENT SCHEDULE FOR UNIT WEIGHT.
(54) WALL MOUNT EXHAUST LOUVER ABOVE DOOR. SEE MECHANICAL.
(55) PACKAGE A/C UNIT. SEE MECHANICAL.
(56) FRP PANEL ON FIRE RETARDANT TREATED PLYWOOD 8'-0" HIGH.
(57) PEMB CROSS BRACING. PAINT.
(58) METAL LOCKERS (ONE ADA).
(59) ADA CLOTHES HOOK.
(60) FIRE EXTINGUISHER AND CABINET.
(61) ALTERNATE: APPROXIMATE LOCATION OF ROOFTOP HVAC UNIT. SEE MECHANICAL. PROVIDE ROOF CURB FOR STANDARD PEMB ROOFING.
(62) WALL MOUNTED ELECTRIC CABINET HEATER. SEE MECHANICAL.
(63) 12" WIDE SHELF WITH CLOTHES ROD. SEE A700 SERIES.
(64) CAST-IN-PLACE CONCRETE WALL 4'-0" HIGH.
(65) POWER RECEPTACLE. SEE ELECTRICAL.
(66) BASE/WALL CABINETS. SEE A700 SERIES.
(67) 8'-0" X 8'-0" SECTIONAL OVERHEAD INSULATED DOOR AND TRACK.
(68) AUTOMATIC DOOR ACTUATOR FOR HC/ADA DOOR OPERATOR. COORDINATE WITH DOOR SCHEDULE AND ELECTRICAL. PROVIDE CONDUIT AND BOX IN MASONRY PIER, GYPSUM BOARD WALL OR ALUMINUM MULLION.
(69) WALL MOUNTED ELECTRICAL CABINET HEATER. SEE MECHANICAL.
(70) CHAIN-LINK FENCE ENCLOSURE. 8'-0" HIGH.
(71) ALTERNATE: IN-GROUND BUS LIFT AT SECOND SERVICE POSITION.
(72) FIRE DEPARTMENT KNOX BOX. COORDINATE INSTALL LOCATION WITH LOCAL FIRE DEPARTMENT. TYPICAL (4) BUILDINGS.
(73) FIRE DEPARTMENT SPRINKLER CONNECTION AND ALARM BELL SEE FIRE PROTECTION SHEETS.

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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PROJECT 20-141
DATE 05/17/21
COORDINATED BY CD
DRAWN BY JKF, AB
CHECKED BY JPB

MICHAEL L. ROUSEY — REGISTERED — NO. AR11600005 — STATE OF INDIANA — ARCHITECT

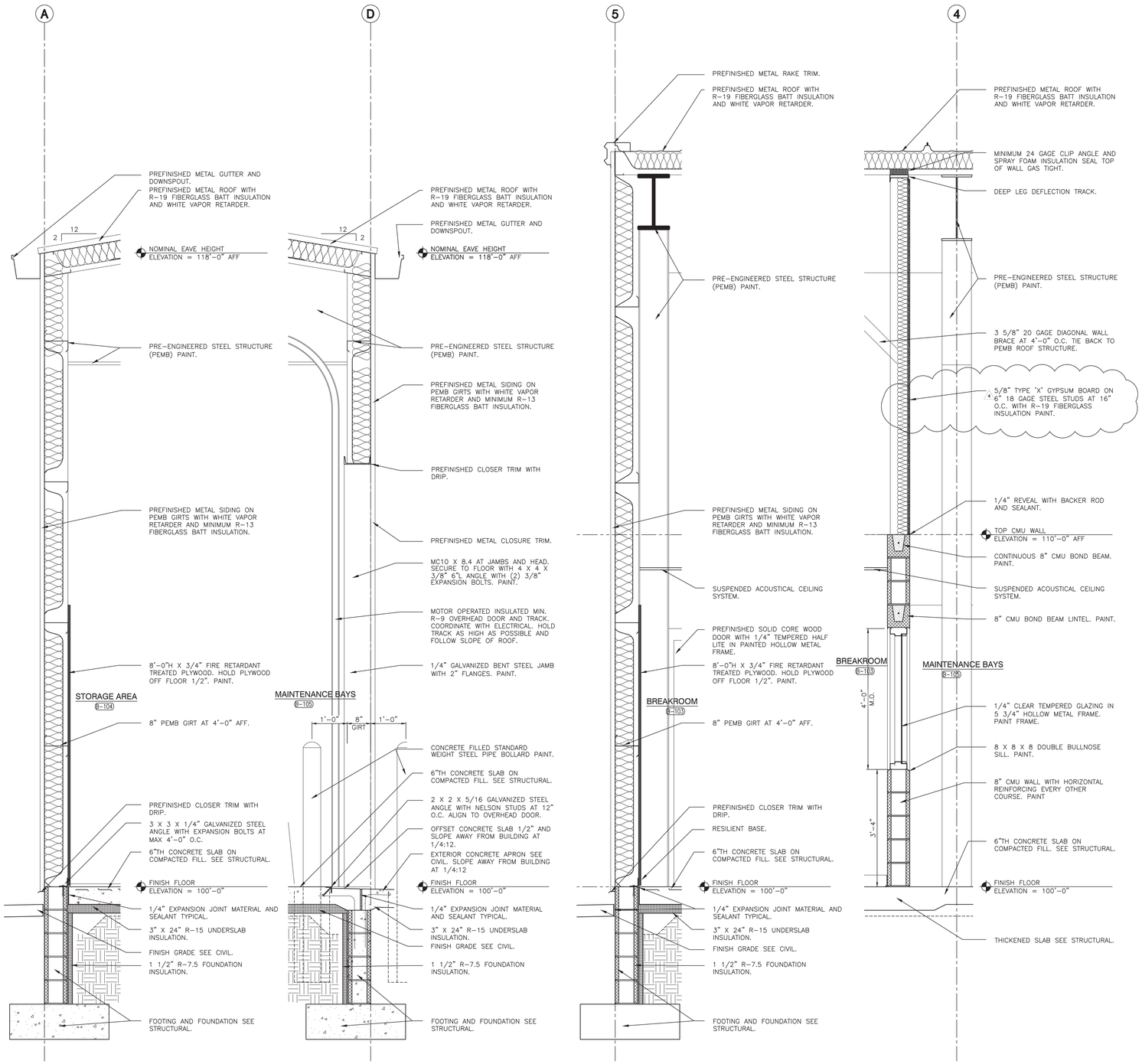
REVISIONS

MARK	DATE	ISSUED FOR
1	05/28/21	ADDENDUM #1
2	06/03/21	ADDENDUM #2
3	06/08/21	ADDENDUM #3
4	06/10/21	ADDENDUM #4

DRAWING
ENLARGED FLOOR PLAN RESOURCE CENTER BUILDING D

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
A-109



1 A-405 WALL SECTION
SCALE: 3/4" = 1' - 0"

2 A-405 WALL SECTION
SCALE: 3/4" = 1' - 0"

3 A-405 WALL SECTION
SCALE: 3/4" = 1' - 0"

4 A-405 WALL SECTION
SCALE: 3/4" = 1' - 0"

WALL SECTS.DWG
Z:\cadprojects\2020 - 2029\2021 Projects\2104 Gibraltar Design Hanover\05 Archt\A-405 UNIT B WALL SECTS.dwg, 6/10/2021 2:27:34 PM, JFitzgerald

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PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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PROJECT
20-141
DATE
05/17/21
COORDINATED BY
CD
DRAWN BY
JKF, AB
CHECKED BY
JPB

MICHAEL L. ROSILER
REGISTERED
NO.
AR11600005
STATE OF
INDIANA

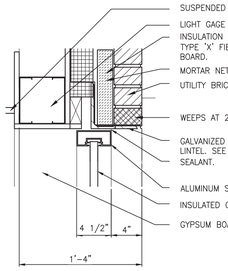
REVISIONS

MARK	DATE	ISSUED FOR
1	05/28/21	ADDENDUM #1
2	06/03/21	ADDENDUM #2
3	06/08/21	ADDENDUM #3
4	06/10/21	ADDENDUM #4

DRAWING
WALL SECTIONS
MAINTENANCE GARAGE
BUILDING B

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

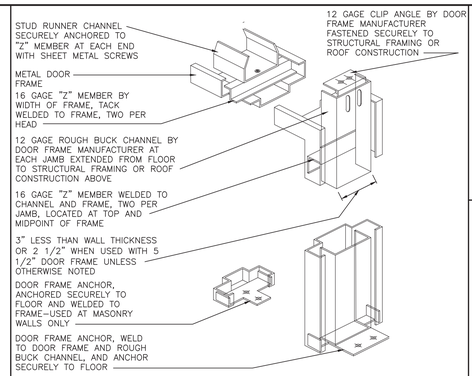
SHEET
A-405



DETAIL: HEAD

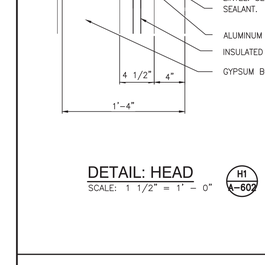
SCALE: 1 1/2" = 1' - 0"

H1 / A-602



TYPICAL HEAD & JAMB ANCHORAGE

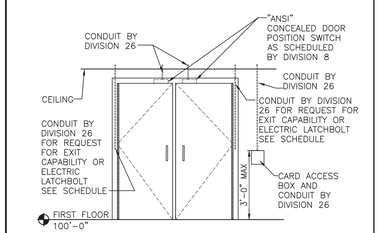
SCALE: NTS



FRAME MOUNTING DETAILS

SCALE: NTS

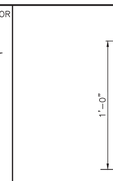
2 / A-602



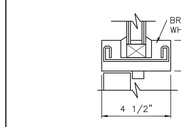
ELECRTICAL ROUGH-IN AT DOOR FRAMES

SCALE: NTS

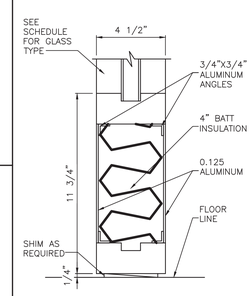
1 / A-602



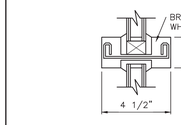
(ALUMINUM) 11



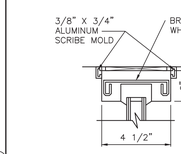
(ALUMINUM) 11



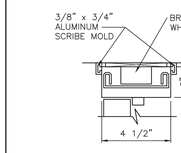
(ALUMINUM) 17



(ALUMINUM) 9



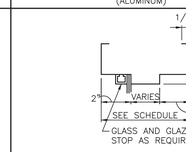
(ALUMINUM) 7



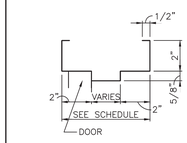
(ALUMINUM) 5

DOOR NOTES

1. JAMB, HEAD, AND SILL DO NOT SHOW WALL CONSTRUCTION. SEE FLOOR PLAN FOR WALL MATERIALS. SEE ROOM FINISH SCHEDULE FOR WALL FINISHES.
2. SEAL ALL JAMBS AND HEADS ONLY WHERE FRAMES MEET EXPOSED MASONRY.
3. PROVIDE A SCRIBE MOLD AT ALL EXTERIOR DOORS AND WHERE OTHERWISE NOTED. SCRIBE MOLD TO BE 3/8" X 3/4" METAL AT EXTERIOR OF METAL FRAMES AND AT BOTH SIDES OF ALUMINUM FRAMES. SET SCRIBE MOLDS IN SEALANT.
4. PROVIDE GLAZING AND GLASS STOPS AS REQUIRED.
5. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS, BOTH NEW AND EXISTING.
6. NOTE: 1/4" SHIM SPACE IS NOT SHOWN ON DOOR FRAME ELEVATIONS FOR ALUMINUM STOREFRONT. TAKE THESE DIMENSIONS INTO ACCOUNT AND ADJUST DIMENSIONS ACCORDINGLY.



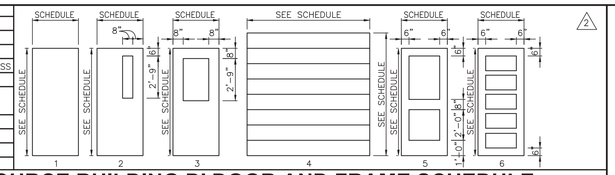
(HOLLOW METAL) 2



(HOLLOW METAL) 1

FRAME PROFILES

GLASS SCHEDULE	
MK	GLASS TYPES
A	1/4" CLEAR TEMPERED
B	1" INSUL. GLASS
C	1" INSUL. SPANDREL GLASS
D	1/4" FIRE RATED
E	3/8" LAMINATED SAFETY GLASS



'RESOURCE BUILDING D' DOOR AND FRAME SCHEDULE

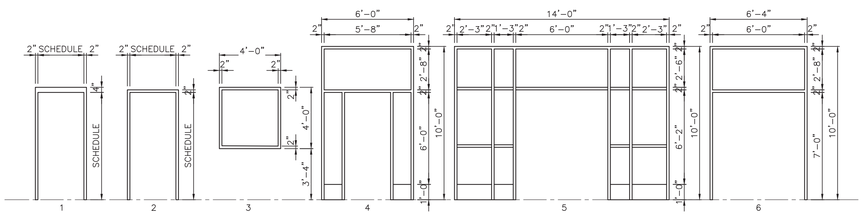
	DOOR								FRAME					LABEL	HARDWARE		NOTES
NO.	DESCRIPTION	TYPE	DOOR SIZE (WxH) (INCHES)	MATERIAL	LOU	GLASS DOOR	GLASS SIDE LGT	GLASS TRA	MAT'L	WIDTH	JAMB	HEAD	SILL	ELEV		EXIT DEVICE	CLOSER	
101-A	SINGLE	1	36 x 84	WD	–	–	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
102-A	SINGLE	1	36 x 84	WD	–	–	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
104-A	SINGLE	1	36 x 84	WD	–	–	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
105-A	BI-FOLD	1	72 x 84	WD	–	–	–	–	HM	5 7/8"	3	3	–	2	–	–	–	–
106-A	DOUBLE	5	72 x 84	ALUM	–	B	B	B	ALUM	4 1/2"	5	5	–	5	–	YES	YES	3,4,5,10 11,12
106-B	DOUBLE	5	72 x 84	ALUM	–	A	A	A	ALUM	4 1/2"	5	5	–	5	–	YES	YES	3,5,7,12
107-A	BI-FOLD	1	72 x 84	WD	–	–	–	–	HM	5 7/8"	3	3	–	2	–	–	–	–
108-A	DOUBLE	6	72 x 84	WD	–	–	–	–	WD	5 7/8"	4	4	–	2	–	YES	–	–
108-B	SINGLE	1	36 x 84	WD	–	–	–	–	HM	11 5/8"			–	2	–	YES	–	–
108-C	SINGLE	1	36 x 84	WD	–	–	–	–	HM	5 7/8"	4	4	–	2	–	YES	–	–
109-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	YES	–	–
109-B	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	YES	–	–
110-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
112-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
113-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
116-A	SINGLE	1	36 x 84	WD	–	–	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
118-A	SINGLE	1	36 x 84	WD	–	–	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
118-B	SINGLE	2	36 x 84	WD	–	A	–	–	HM	11 5/8"			–	2	–	–	–	–
120-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
120-B	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
121-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
122-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
123-A	SINGLE	1	36 x 84	WD	–	–	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
125-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
126-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
127-A	BI-FOLD	1	72 x 84	WD	–	–	–	–	HM	5 7/8"	3	3	–	2	–	–	–	–
128-A	SINGLE	1	36 x 84	WD	–	–	–	–	HM	5 7/8"	4	4	–	2	–	–	YES	–
129-A	SINGLE	1	36 x 84	WD	–	–	–	–	HM	5 7/8"	4	4	–	2	–	–	YES	–
130-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
131-A	SINGLE	5	36 x 86	ALUM	–	B	B	B	ALUM	4 1/2"	5	5	–	2	–	YES	YES	3,4,10,11
131-B	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	YES	YES	–
131-C	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	YES	YES	–
132-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
134-A	DOUBLE	5	72 x 86	ALUM	–	B	–	B	ALUM	4 1/2"	5	5	–	6	–	YES	YES	3,4,5,10 11
134-B	DOUBLE	5	72 x 86	ALUM	–	A	–	A	ALUM	4 1/2"	5	5	–	6	–	YES	YES	5
135-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	YES	–	–
135-B	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	YES	–	–
136-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
138-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
139-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
140-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
141-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
142-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
142-B	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
143-A	SINGLE	2	36 x 84	WD	–	A	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
144-A	SINGLE	1	36 x 84	WD	–	–	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
145-A	DOUBLE	1	72 x 84	WD	–	–	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
146-A	SINGLE	1	36 x 84	WD	–	–	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
147-A	DOUBLE	5	72 x 86	ALUM	–	B	–	B	ALUM	4 1/2"	5	5	–	6	–	YES	YES	3,4,5,10 11
147-B	DOUBLE	5	72 x 86	ALUM	–	A	–	A	ALUM	4 1/2"	5	5	–	6	–	YES	YES	5
149-A	DOUBLE	1	72 x 84	WD	–	–	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
150-A	SINGLE	1	36 x 84	WD	–	–	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
151-A	SINGLE	1	36 x 84	WD	–	–	–	–	HM	5 7/8"	4	4	–	2	–	–	–	–
152-A	SINGLE	1	36 x 86	FRP	–	–	–	–	ALUM	4 1/2"	–	–	–	2	–	–	YES	3,4,10,11
152-B	OVERHEAD COILING	4	96 x 96	STEEL	–	–	–	–	–	–	–	–	–	–	–	–	–	1

GENERAL DOOR NOTES

A. JAMB, HEAD, AND SILL DO NOT SHOW WALL CONSTRUCTION. SEE FLOOR PLAN FOR WALL MATERIALS. REFER TO A800 SERIES DRAWINGS FOR WALL FINISHES.
B. SEAL ALL JAMBS AND HEADS WHERE FRAMES MEET EXPOSED MASONRY AND/OR GYPSUM BOARD.
C. PROVIDE A SCRIBE MOLD AT ALL EXTERIOR DOOR FRAMES AND WHERE NOTED ON DRAWINGS. SCRIBE MOLD TO BE 3/4" X 3/4" METAL AT EXTERIOR OF METAL FRAMES AND AT BOTH SIDES OF ALUMINUM FRAMES. SET SCRIBE MOLDS IN SEALANT.
D. PROVIDE GLAZING AND GLASS STOPS AS REQUIRED.
E. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS, BOTH NEW AND EXISTING.
F. SHIM SPACE IS NOT SHOWN ON DOOR FRAME ELEVATIONS FOR ALUMINUM STOREFRONT. TAKE THESE DIMENSIONS INTO ACCOUNT AND ADJUST DIMENSIONS ACCORDINGLY.
G. FOR DOOR POSITION WITHIN WALL REFER TO FRAME MOUNTING DETAIL 2-A602.
H. FOR ELECTRICAL ROUGH-IN AT DOORS REFER TO DETAIL 1-A602.
I. FOR HOLLOW METAL FRAME ELEVATIONS (HM) REFER TO A602. FOR HOLLOW METAL (HM) FRAME PROFILES REFER TO A602.
J. FOR ALUMINUM STOREFRONT ELEVATIONS (SF) REFER TO A602. FOR STOREFRONT (SF) FRAME PROFILES REFER TO A602.
K. GLASS NOTED IN SIDELIGHT COLUMN FOR STOREFRONT WITH NO DOOR APPLIES TO ALL OPENINGS IN FRAME UNLESS NOTED OTHERWISE.
L. REFER TO FLOOR PLANS FOR LOCATIONS OF NEW AND EXISTING ADA PUSH PADS FOR POWER ASSISTED OPERATORS.

DOOR SCHEDULE NOTES (REMARKS):

1. INSULATED OVERHEAD COILING DOOR. MOTOR OPERATED.
2. FIELD VERIFY WALL THICKNESSES AND OPENING DIMENTSIONS FOR DOORS AND FRAMES PRIOR TO STARTING CONSTRUCTION.
3. INSULATED DOOR.
4. PROVIDE ALUMINUM THRESHOLD SET IN FULL BED OF MASTIC.
5. KEYED REMOVABLE MULLION.
6. WALL MOUNTED ELECTROMAGNETIC DOOR HOLDER(S) BY DIVISION 26, DOOR MOUNTED ARMATURE SHALL BE INSTALLED BY HARDWARE INSTALLER.
7. PROVIDE HOLD OPEN ON EACH DOOR.
8. (NOT USED)
9. PROVIDE DOOR RELEASE ON AI PHONE LOCATED AT RECEPTION DESK.
10. PANIC DEVICE TO HAVE ELECTRIC LATCH BOLT. PREPARE FRAME FOR ELECTRIFIED HINGE.
11. DOOR TO BE CONTROLLED BY CARD READER/FOB. REFER TO ELECTRICAL DRAWINGS FOR ROUGH IN.
12. PROVIDE POWER ASSISTED OPERATOR ON ONE LEAF OF DOUBLE DOORS.



FRAME TYPE ELEVATIONS

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

4

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PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
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Phone 317.580.5777 Fax 317.580.5778

PROJECT 20-141
DATE 05/17/21
COORDINATED BY CD
DRAWN BY JKF, AB
CHECKED BY JPB

MICHAEL L. ROSELLO REGISTERED NO. AR11600005 STATE OF INDIANA ARCHITECT

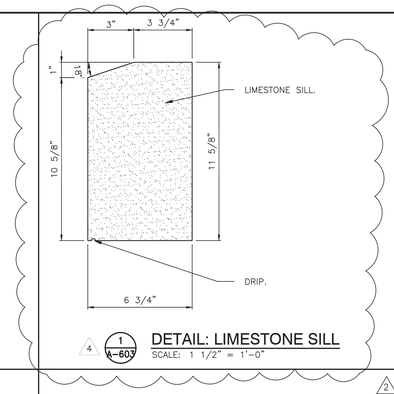
REVISIONS

MARK	DATE	ISSUED FOR
1	05/28/21	ADDENDUM #1
2	06/03/21	ADDENDUM #2
3	06/08/21	ADDENDUM #3
4	06/10/21	ADDENDUM #4

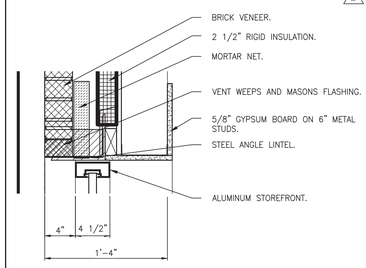
DRAWING
DOOR SCHEDULE, FRAME PROFILES, ELEVATIONS, AND DETAILS

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

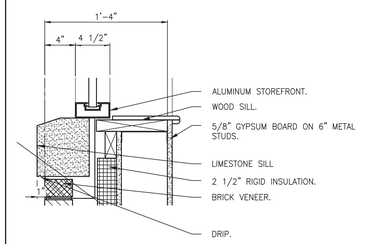
SHEET
A-602



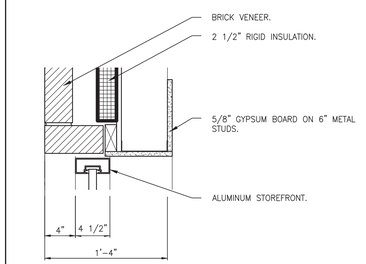
4 1 A-603 DETAIL: LIMESTONE SILL
SCALE: 1 1/2" = 1'-0"



2 DETAIL: HEAD H1 A-603
SCALE: 1 1/2" = 1' - 0"



DETAIL: SILL S1 A-603
SCALE: 1 1/2" = 1' - 0"



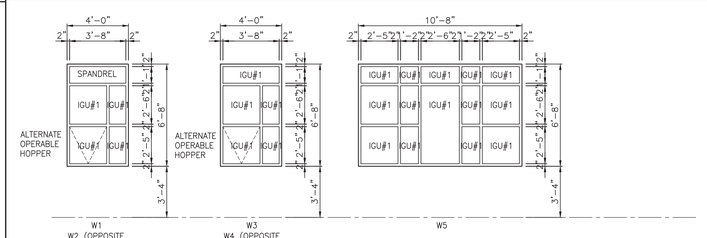
DETAIL: SILL J1 A-603
SCALE: 1 1/2" = 1' - 0"

ADMINISTRATION BUILDING 'D' WINDOW SCHEDULE

TYPE MARK	SIZE	MATERIAL	TYPE	GLAZING	DETAILS			U VALUE	REMARKS
					HEAD	JAMB	SILL		
W1/W2	4'-0"W X 6'-8"H	ALUM	FIXED/ OPERABLE	1" INSULATED GLASS	H1	J1	S1	.27	–
W3/W4	4'-0"W X 6'-8"H	ALUM	FIXED/ OPERABLE	1" INSULATED GLASS	H1	J1	S1	.27	–
W5	10'-8"W X 6'-8"H	ALUM	FIXED	1" INSULATED GLASS	H1	J1	S1	.27	–

NOTES - ALUMINUM WINDOWS (W)

1. PROVIDE SHIM SPACE, BACKER ROD AND SEALANT AROUND PERIMETER OF ALL WINDOW FRAMING WHERE FRAMING ABUTES DISIMILAR MATERIALS.
2. PROVIDE FOAM INSULATION IN SHIM SPACE AROUND PERIMETER OF ALL EXTERIOR WINDOW FRAMING.
3. DIMENSIONS SHOWN ARE NOMINAL. FIELD VERIFY ALL DIMENSIONS SHOWN PRIOR TO FABRICATION AND INSTALLATION.
4. ALL FRAMES IN EXTERIOR WALLS SHALL BE THERMALLY BROKEN WITH 1" INSULATED GLAZING.
5. ALL GLAZING SHALL CONFORM TO STATE AND LOCAL CODES.



FRAME TYPE ELEVATIONS
SCALE: 1/4" = 1'-0"

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PROJECT 20-141
DATE 05/17/21
COORDINATED BY CD
DRAWN BY JKF, AB
CHECKED BY JPB

MICHAEL J. BRADLEY REGISTERED ARCHITECT NO. AR11600005 STATE OF INDIANA

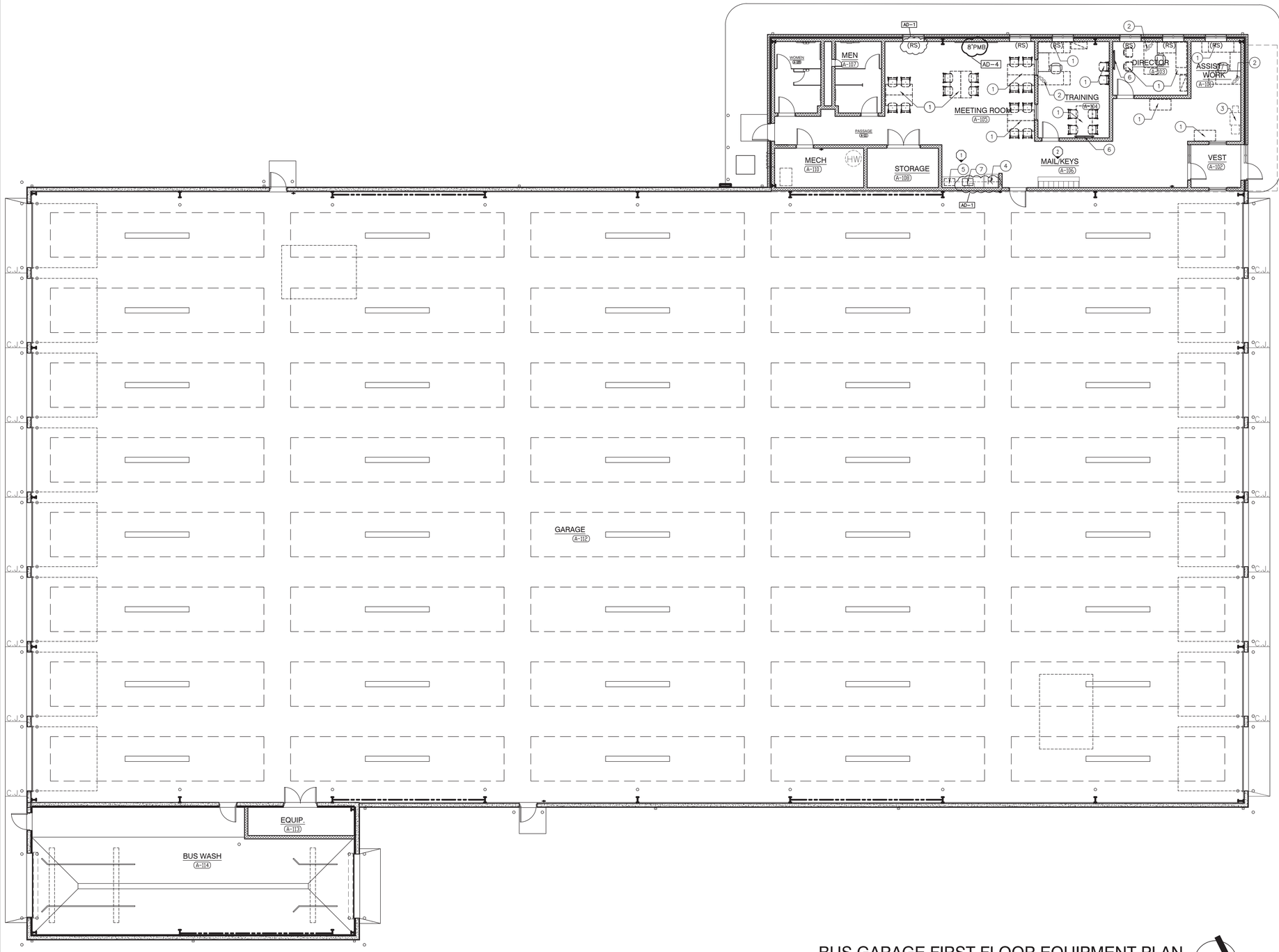
REVISIONS

MARK	DATE	ISSUED FOR
1	05/28/21	ADDENDUM #1
2	06/03/21	ADDENDUM #2
3	06/08/21	ADDENDUM #3
4	06/10/21	ADDENDUM #4

DRAWING
DOOR SCHEDULE, FRAME PROFILES, ELEVATIONS, AND DETAILS

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
A-603



BUS GARAGE FIRST FLOOR EQUIPMENT PLAN

SCALE: 1/8" = 1'-0" (PRE-ENGINEERED METAL BUILDING)

NORTH

GENERAL EQUIPMENT NOTES:

A. REFER TO SPECIFICATIONS AND FINISH LEGEND FOR ADDITIONAL INFORMATION.

B. REFER TO G-301 FOR MOUNTING HEIGHTS

PLAN LEGEND:

- INDICATES MISCELLANEOUS CASEWORK ELEVATION SYMBOL – REFER TO A-720 SERIES DRAWINGS FOR ELEVATIONS AND DETAILS.
- INDICATES ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE BY OWNER. (NOT INCLUDED IN CONSTRUCTION CONTRACT)
- INDICATES BULKHEADS OR OTHER OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).
- (CG) INDICATES CORNER GUARD.
- (RS) INDICATES ROLLER SHADE.
- (PMB) INDICATES 4' HIGH PROJECTABLE MARKER BOARD
- (MB) INDICATES 4' HIGH MARKER BOARD AD-4

PLAN NOTES:

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

1. LOOSE FURNITURE, BY OWNER, INDICATED ON PLAN FOR ELECTRICAL AND TECHNOLOGY COORDINATION
2. COMPUTER/MONITOR, BY OWNER
3. PRINTER/COPIER, BY OWNER
4. REFRIGERATOR, BY OWNER
5. MICROWAVE, BY OWNER
6. TV MONITOR, REFER TO TECHNOLOGY DRAWINGS
7. SINK, REFER TO PLUMBING DRAWINGS

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PROJECT 20-141
DATE 05/17/21
COORDINATED BY MLR
DRAWN BY ARM
CHECKED BY NAS

MICHAEL L. ROSSILLO REGISTERED NO. AR11600005 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	5/27/21	ADDENDUM #1
AD-4	6/10/21	ADDENDUM #4

DRAWING
FIRST FLOOR EQUIPMENT PLAN - BUILDING A

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
A-701

GENERAL EQUIPMENT NOTES:

A. REFER TO SPECIFICATIONS AND FINISH LEGEND FOR ADDITIONAL INFORMATION.

B. REFER TO G-301 FOR MOUNTING HEIGHTS

PLAN LEGEND:

(--#) INDICATES MISCELLANEOUS CASEWORK ELEVATION SYMBOL – REFER TO A-720 SERIES DRAWINGS FOR ELEVATIONS AND DETAILS.

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(CG) INDICATES CORNER GUARD.

(RS) INDICATES ROLLER SHADE.

(PMB) INDICATES 4' HIGH PROJECTABLE MARKER BOARD

(MB) INDICATES 4' HIGH MARKER BOARD AD-4

PLAN NOTES:

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

1. LOOSE FURNITURE, BY OWNER, INDICATED ON PLAN FOR ELECTRICAL AND TECHNOLOGY COORDINATION
2. COMPUTER/MONITOR, BY OWNER
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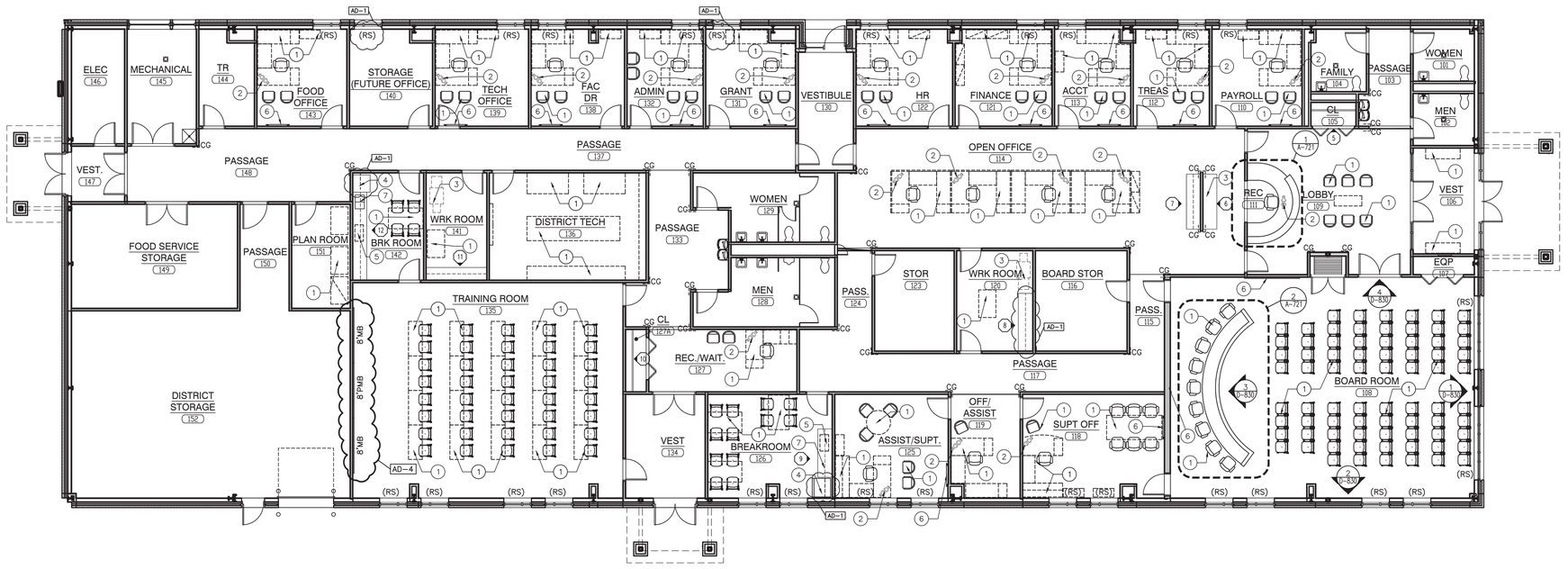
4. REFRIGERATOR, BY OWNER
5. MICROWAVE, BY OWNER
6. TV MONITOR, REFER TO TECHNOLOGY DRAWINGS
7. SINK, REFER TO PLUMBING DRAWINGS



RESOURCE CENTER FIRST FLOOR EQUIPMENT PLAN

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

NORTH

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PROJECT
20-141
DATE
05/17/21
COORDINATED BY
MLR
DRAWN BY
ARM
CHECKED BY
NAS

MICHAEL L. ROSSILLO REGISTERED NO. AR11600005 STATE OF INDIANA ARCHITECT

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AD-4	6/10/21	ADDENDUM #4

DRAWING
FIRST FLOOR EQUIPMENT PLAN - BUILDING D

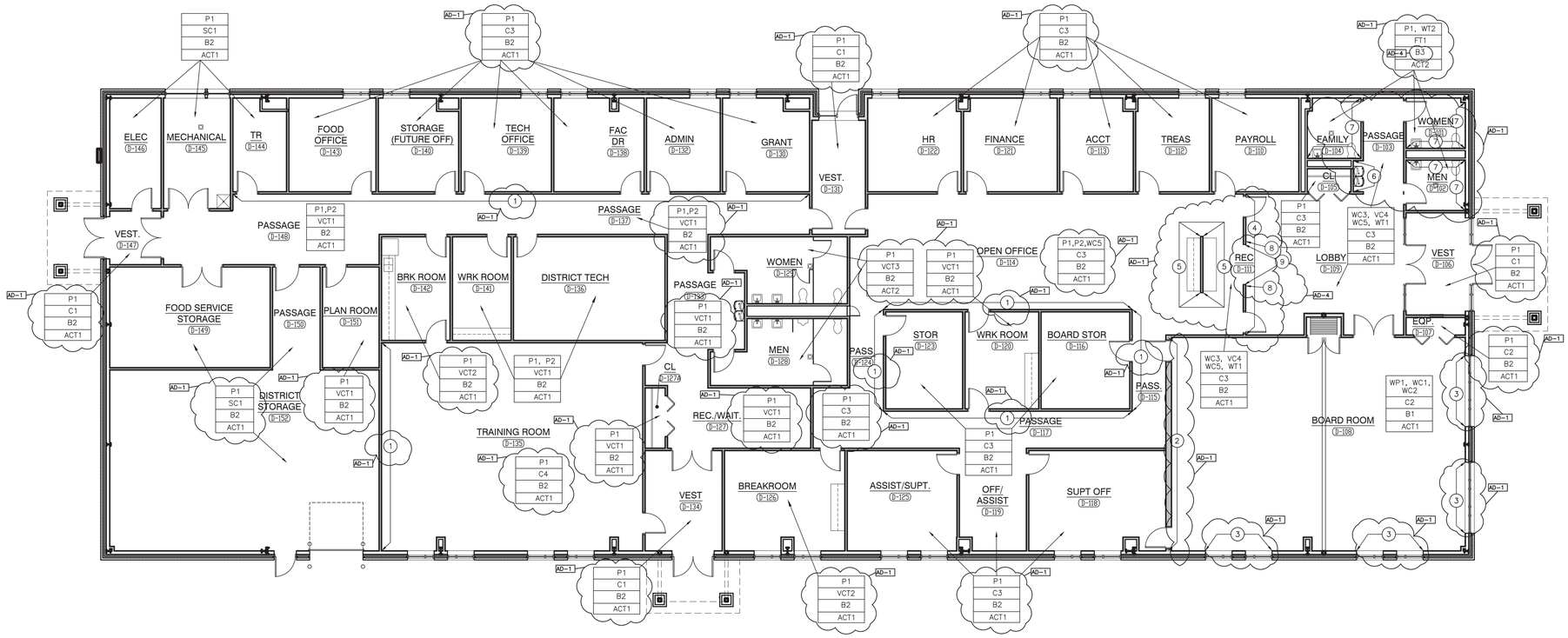
PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
A-705

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

Thursday, 6/10/2021 - 9:02 AM - LAST SAVED BY:AMILLER
Y:\20-141 HANOVER CSC - NEW RESOURCE CENTER\20-141 DRAWINGS\05 ARCH\A-705.DWG



GENERAL NOTES:

REFERENCE FINISH LEGEND (A-810) FOR FINISH INFORMATION.

REFERENCE WRITTEN SPECIFICATIONS AND REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION.

GENERAL FINISH NOTES:

A. PRIOR TO INSTALLATION OF NEW FINISHES CONTRACTOR SHALL INSPECT ALL SUBSTRATES. IF A SUBSTRATE IS DEEMED UNACCEPTABLE THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO RECTIFY THE SITUATION OR CONTACT THE ARCHITECT WITH THE CONCERN. PROCEEDING WITH THE INSTALLATION OF FINISHES WILL BE CONSTRUED THAT THE INSTALLER AND/OR FINISHER HAS ACCEPTED SAID SUBSTRATE. NO CHANGE ORDER WILL BE ISSUED TO RECTIFY CONCEALED, OR UNSATISFACTORY SUBSTRATE ONCE FINISH WORK HAS PROCEEDED.

B. PREPARE ALL WALL CONSTRUCTION, NEW AND EXISTING, TO RECEIVE NEW FINISHES AS PER MANUFACTURER'S RECOMMENDED INSTALLATION METHODS AND MATERIALS FOR ALL FINISHES.

C. ALL FLOORING IS TO BE LEVELED WITHIN 1/4" IN 10'-0" WITH LATEX MATERIAL. MOISTURE CONTENT IN AREA IS TO BE TESTED PRIOR TO INSTALLATION OF FLOORING MATERIAL. CONTRACTOR TO INSTALL FLOORING PER MANUFACTURER'S RECOMMENDED METHOD.

D. FLOORING CONTRACTOR TO SUBMIT A SEAMING DIAGRAM FOR FLOORING MATERIALS INCLUDING NOTATION OF MATERIAL DIRECTION.

E. ALL FLOORING TRANSITIONS SHALL COMPLY WITH ADA GUIDELINES.

F. ALL EXPOSED METAL SURFACES, SUCH AS GRILLES, FIRE EXTINGUISHER CABINETS, ETC. THAT ARE NOTED TO BE PAINTED, ARE TO BE PAINTED WITH ALKYD TYPE PAINT, COLOR TO BE COORDINATED WITH DESIGNER UNLESS OTHERWISE NOTED.

G. CONTRACTOR TO PROVIDE AND INSTALL FLOORING TRANSITIONS AS INDICATED ON THE FLOOR PATTERN PLANS. WHERE NONE ARE NOTED, CONTRACTOR TO VERIFY REQUIRED TYPE/COLOR WITH DESIGNER.

H. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ALL NEW INTERIOR WALL AND CEILING FINISHES WILL BE CLASS B MINIMUM, WITH A FLAME SPREAD RATING OF 75 MAXIMUM, AND A SMOKE DEVELOPED INDEX OF 450 MAXIMUM, PER IBC SECTION 803.

I. ALL EXISTING AND NEW HALLOW METAL DOOR FRAMES TO BE PAINTED, P4, UNLESS NOTED OTHERWISE.

FINISH SYMBOL LEGEND:

P1	WALL FINISH
C1	FLOOR FINISH
B1	BASE FINISH
--	CEILING FINISH

PLAN NOTES:

1. PAINT, P2
2. WALL PANEL, WP1, TO BE PAINTED, P3
3. WALL COVERING, WC2
4. WALL COVERING, WC4
5. WALL COVERING, WC5
6. WALL TILE, WT1
7. WALL TILE, WT2
8. INDICATED WALL COVERING TO DIE INTO WOOD CASING.

1 A-804 FIRST FLOOR FINISH PLAN - BUILDING D

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

NORTH

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PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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PROJECT 20-141
DATE 05/17/21
COORDINATED BY MLR
DRAWN BY JFK,AB,ARM
CHECKED BY JPB NAS

MICHAEL L. ROSSILLO REGISTERED NO. AR11600005 STATE OF INDIANA ARCHITECT

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	5/27/21	ADDENDUM #1
AD-4	6/10/21	ADDENDUM #4

DRAWING
FIRST FLOOR FINISH PLAN
RESOURCE CENTER
BUILDING D

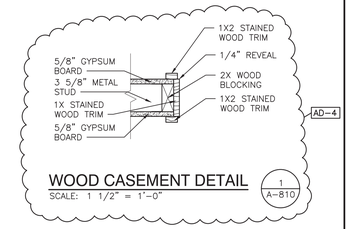
PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
A-804

Thursday, 6/10/2021 - 2:25 PM - LAST SAVED BY:DBURNS
Y:\20-141 HANOVER CSC - NEW RESOURCE CENTER\20-141 DRAWINGS\05 ARCH\A-804 BLDG D FINISH.DWG

FINISH LEGEND

SURFACE	MARK	DESCRIPTION	MANUFACTURER	PATTERN/FINISH	NUMBER/COLOR	SIZE	COMMENTS
CEILING MATERIALS							
	ACT1	ACOUSTICAL CEILING	ARMSTRONG	SQUARE LAY-IN	1728 FINE FISSURED	2'X2'	WITH HUMIGUARD PLUS PERFORMANCE
	ACT2	ACOUSTICAL CEILING	ARMSTRONG	CLEAN ROOM	VL-NONPERFORATED	2'X2'	WITH HUMIGUARD PLUS PERFORMANCE
	ESSP	EXPOSED STRUCTURE PAINTED	SHERWIN WILLIAMS	SW 7007	CEILING BRIGHT WHITE	--	
	ESSNP	EXPOSED STRUCTURE NON-PAINTED					
WALL BASE							
	B1	WOOD BASE	--	EASED EDGE	STAIN TO MATCH DOOR	6"H X 1/2"	
	B2	RESILIENT BASE	JOHNSONITE	CHOC	20 CHARCOAL	4"	AD-4
	B3	PORCELAIN BASE	DALTILE	PORTFOLIO	PF06 IRON GREY	6" X 12"	
FLOOR MATERIALS							
	C1	CARPET TILE	TARKETT	ABRASIVE ACTION II	WINTER GRAY 19103	24"X24"	
	C2	CARPET TILE	TARKETT	AIDA CLOTH	INDIGO RUN	18"X36"	
	C3	CARPET TILE	TARKETT	11563 GUARDIAN NXT	38501 DEEP SKY	24"X24"	
	C4	CARPET TILE	TARKETT	01957 CRAYON	48002 TIDAL WAVE	24"X24"	
	FT1	PORCELAIN TILE	DALTILE	PORTFOLIO	PF06 IRON GREY	12"X24"	
	VCT1	VINYL COMPOSITE TILE	ARMSTRONG	IMPERIAL TEXTURE	57551 PERFECT STORM	12"X12"	
	VCT2	VINYL COMPOSITE TILE	ARMSTRONG	CROWN TEXTURE	5C230 VICTORIA BLUE	12"X12"	
	VCT3	VINYL COMPOSITE TILE	ARMSTRONG	IMPERIAL TEXTURE	51934 LAVENDER SHADOW	12"X12"	
	SC	SEALED CONCRETE					
WALL MATERIALS							
	P1	PAINT	SHERWIN WILLIAMS	PASSIVE	SW 7064		
	P2	PAINT	SHERWIN WILLIAMS	ACIER	SW 9170 AD-4		
	P3	PAINT	SHERWIN WILLIAMS	MARCH WIND	SW 7668		
	P4	PAINT	SHERWIN WILLIAMS	WEB GRAY	SW 7075		
	WC1	WALLCOVERING	MDC-BOLTA CONTRACT	BEAD BARE	PENCIL		
	WC2	WALLCOVERING	MDC-BOLTA CONTRACT	BEAD BARE	CHANTON SHADOW		
	WC3	WALLCOVERING	SYMPHONY	ON STAGE	VENUE GREY		
	WC4	WALLCOVERING	SYMPHONY	ON STAGE	MOONDANCE		
	WC5	WALLCOVERING	SYMPHONY	ON STAGE	SAPPHIRE SOLO		
	WT1	WALL TILE	CROSSVILLE LAMINAM	CALCE	GRIGO	1MX3M	
	WT2	WALL TILE	CROSSVILLE LAMINAM	NATURALI	OSSIDIANA VENA CHIARA	1MX3M	
AD-1	WP1	WALL PANEL	MODULARARTS	INTERLOCKING ROCK	VEIL PANELS	32"X32"	
CASEWORK AND MILLWORK							
	SS1	SOLID SURFACE	CORIAN		LIMESTONE PRIMA	--	
	SS2	SOLID SURFACE	CORIAN		SILVER GRAY AD-4	--	
	PLT	PLASTIC LAMINATE	WILSONART	FINEGRAIN FINISH	MONTANA WALNUT	--	
	PL2	PLASTIC LAMINATE	FORMICA	MATTE FINISH	FOLKSTONE CELESTA	--	
	PL3	PLASTIC LAMINATE	FORMICA	MATTE FINISH	GRAPHITE TWILL	--	
	PL4	PLASTIC LAMINATE	FORMICA	PAPER FINISH	NATURAL GRAY FELT	--	
	PL5	PLASTIC LAMINATE	FORMICA	MATTE FINISH	STORM	--	
	PL6	PLASTIC LAMINATE	FORMICA	MATTE FINISH	FOLKSTONE GRAFIX	--	
MISC.						AD-4	
	TRIM1	TILE TRIM	SCHLUTER	CORNER	FULL RANGE	--	
	TRIM2	TILE TRIM	SCHLUTER	EDGE	--	--	
	CG1	CORNER GUARD	CS	FS SERIES	--	--	FULL HEIGHT
	WG1	WALL PROTECTION	ACROVYN	--	FULL RANGE	--	
	WD1	WOOD DOOR	SHERWIN WILLIAMS	--	NUTMEG - MATCH DOOR MANUFACT.	--	
	TP1	TOILET PARTITION	SCRANTON	--	--	--	



WOOD CASEMENT DETAIL (1 / A-810)
SCALE: 1 1/2" = 1'-0"

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PROJECT 20-141
DATE 05/17/21
COORDINATED BY MR
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MICHAEL L. ROSSILLO REGISTERED NO. AR11600005 STATE OF INDIANA ARCHITECT

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AD-4	6/10/21	ADDENDUM #4

DRAWING
FINISH LEGEND

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
A-810

ELEVATION GENERAL NOTES:

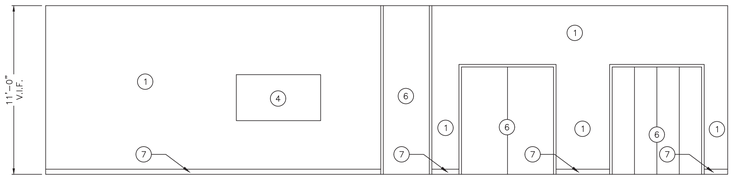
A. REFERENCE FINISH LEGEND (A-810) FOR FINISH INFORMATION.

B. REFERENCE WRITTEN SPECIFICATIONS, EQUIPMENT PLANS, FINISH PLANS AND REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION

ELEVATION NOTES:

1. WALL COVERING, WC1
2. WALL COVERING, WC2
3. WINDOW
4. TV MONITOR
5. WALL PANEL, WP1, PAINT P3
6. DOOR
7. WALL BASE, B1
8. "V" JOINT
9. SIGNAGE REFER TO SPECIFICATIONS

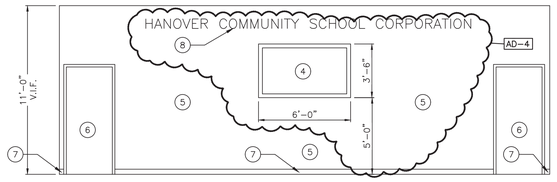
AD-4



INTERIOR ELEVATION

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

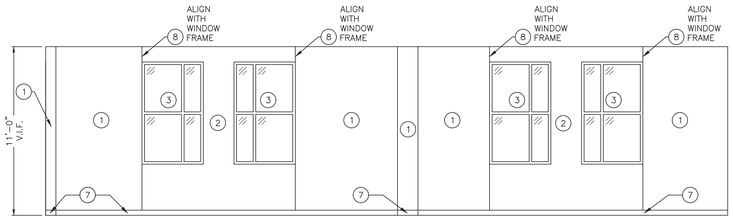
4 / A-830



INTERIOR ELEVATION

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

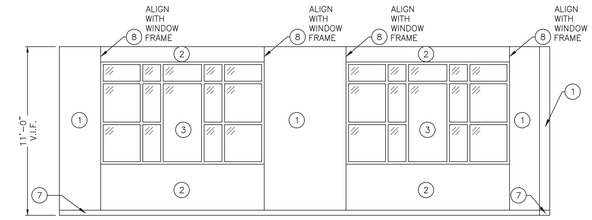
3 / A-830



INTERIOR ELEVATION

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

2 / A-830



INTERIOR ELEVATION

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

1 / A-830

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COORDINATED BY MLR
DRAWN BY ARM
CHECKED BY NAS

MICHAEL L. ROSSILLO REGISTERED NO. AR11600005 STATE OF INDIANA ARCHITECT

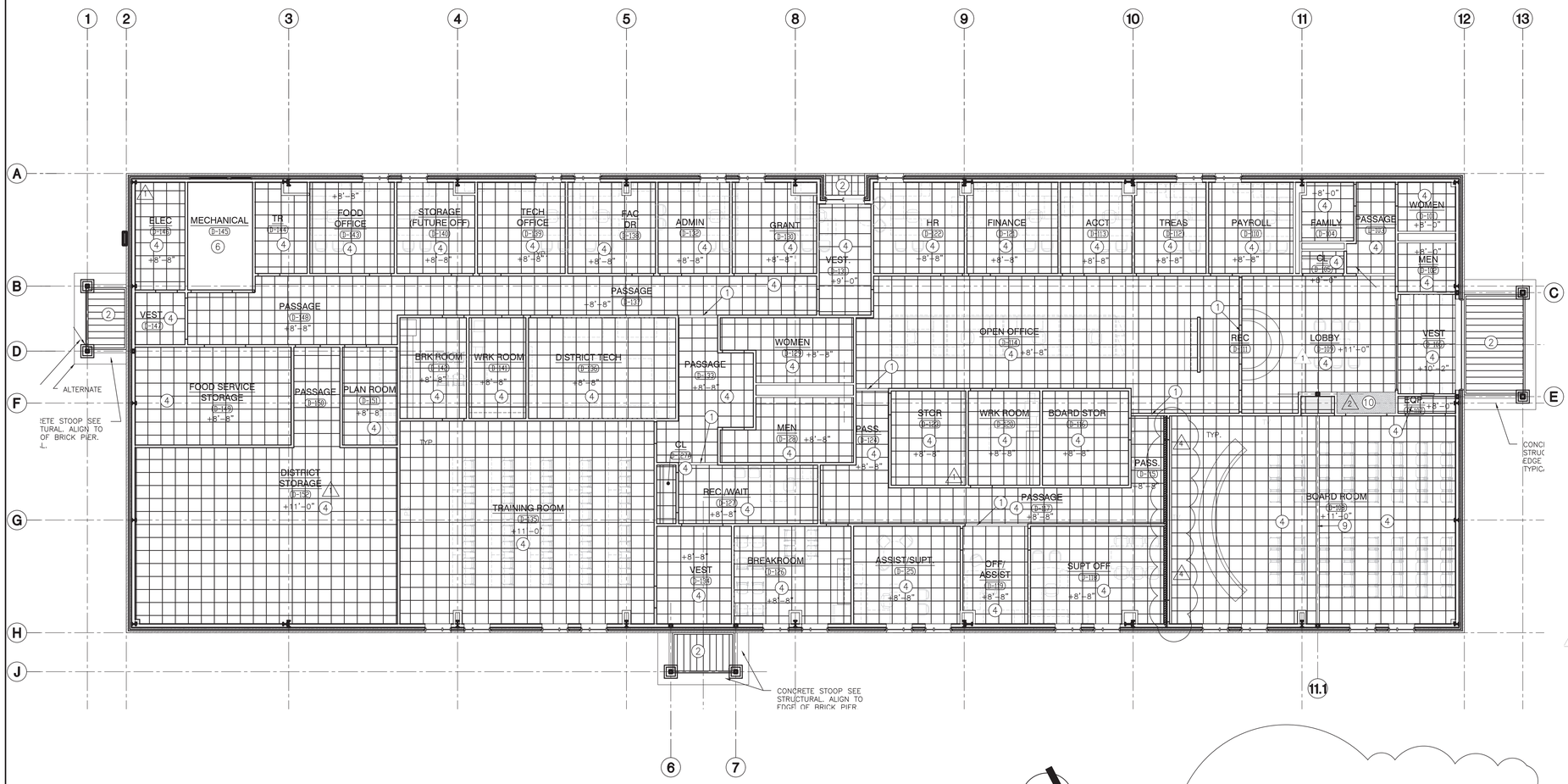
REVISIONS

MARK	DATE	ISSUED FOR
AD-4	6/10/21	ADDENDUM #4

DRAWING
INTERIOR ELEVATIONS AND DETAILS

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
A-830



1 / A-904 FIRST FLOOR REFLECTED CEILING PLAN - BUILDING D

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

NORTH

GENERAL REFLECTED CEILING PLAN NOTES:

A. FOR GENERAL PROJECT NOTES, MATERIAL INDICATIONS LEGEND, SYMBOL LEGEND, ABBREVIATIONS, ETC., REFER TO G1 SERIES SHEETS.

B. THE ARCHITECTURAL REFLECTED CEILING PLAN GOVERN THE LAYOUT OF ALL CEILING ELEMENTS AND PENETRATIONS.

C. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT THE ROOF DECK.

D. REFER TO FLOOR PLANS FOR WALL TYPES

E. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL CEILING MOUNTED ELECTRICAL ITEMS.

F. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL CEILING MOUNTED TECHNOLOGY ITEMS.

G. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF CEILING DIFFUSERS, RETURN AIR GRILLS, AND CEILING CABINET HEATERS.

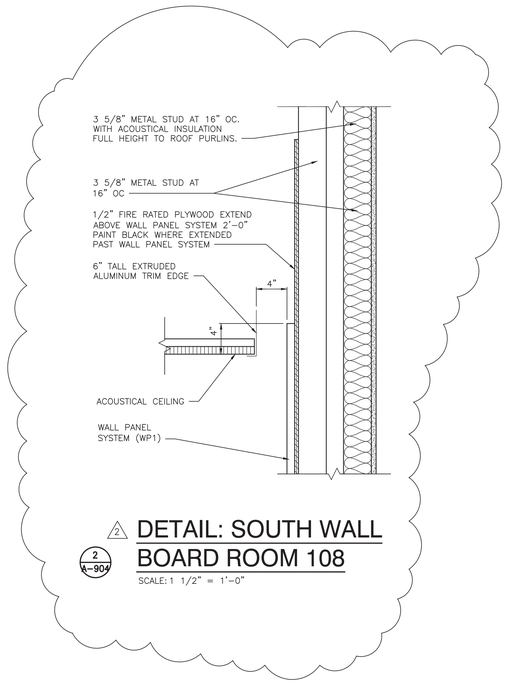
REFLECTED CEILING PLAN LEGEND:

- GYPSUM BOARD BULKHEAD/CEILING
- 2'-0" & 2'-0" ACST. BD. CEILING SEE ROOM FINISH SCHEDULE
- PREFINISHED METAL CEILING SEE ROOM FINISH SCHEDULE
- LED LIGHT
- EXIT LIGHT
- 1x4 LIGHT FIXTURE
- 2x4 LIGHT FIXTURE
- SUPPLY AIR DIFFUSER
- RETURN, EXHAUST, AND TRANSFER AIR GRILLE
- (S) CEILING SPEAKER
- (OS) OCCUPANCY SENSOR

REFLECTED CEILING PLAN NOTES:

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

1. GYPSUM BOARD BULKHEAD BOTTOM AT 8'-0" AFF.
2. PREFINISHED METAL SOFFIT PANELS.
3. CMU LINTEL. PAINT.
4. SUSPENDED ACOUSTICAL CEILING SYSTEM.
5. PREFINISHED METAL CEILING PANELS WITH GASKETED FASTENERS AND CONTINUOUS SEAM TAPE. APPLY SEALANT AT WALL TO CEILING JOINTS FOR WEATHERTIGHT SEAL. TYPICAL IN BUS WASH BUILDING A.
6. EXPOSED STEEL STRUCTURE, BEAMS FRAMES, PURLINS, GIRTS ETC. PAINT.
7. MECHANICAL EQUIPMENT SEE MECHANICAL DRAWINGS.
8. MOTOR OPERATED OVERHEAD SECTIONAL DOORS TIGHT TO CEILING.
9. MOVEABLE WALL TRACK SUSPENDED FROM STEEL STRUCTURE.
10. GYPSUM BOARD BULKHEAD BOTTOM AT 10'-0" AFF.



2 / A-904 DETAIL: SOUTH WALL BOARD ROOM 108

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

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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Indianapolis, IN 46260
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Email info@GibraltarDesign.com
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PROJECT 20-141
DATE 05/17/21
COORDINATED BY CD
DRAWN BY JKF, AB
CHECKED BY JPB

MICHAEL J. ROSSELOT REGISTERED NO. AR11600005 STATE OF INDIANA ARCHITECT

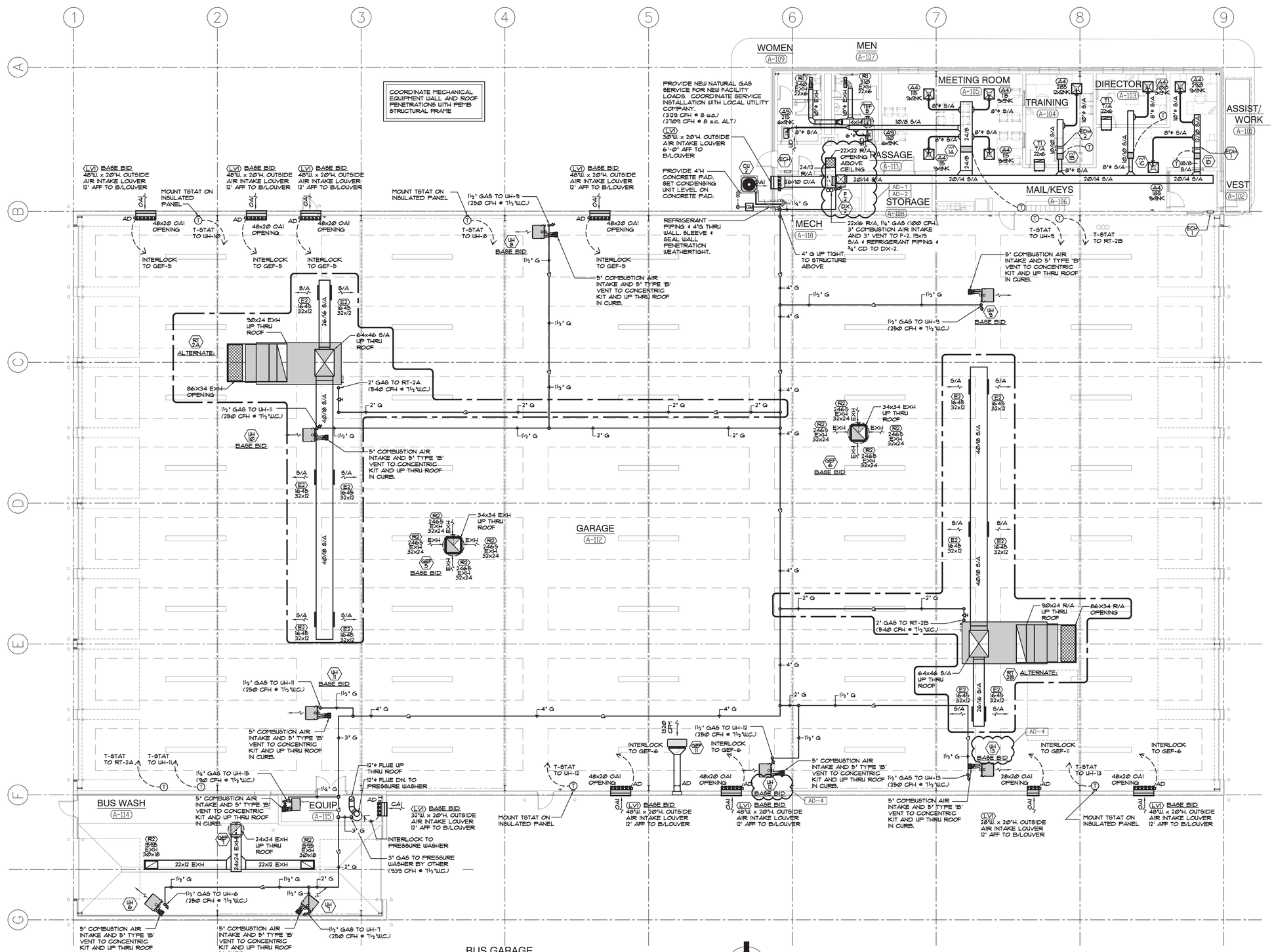
REVISIONS

MARK	DATE	ISSUED FOR
1	05/28/21	ADDENDUM #1
2	06/03/21	ADDENDUM #2
3	06/08/21	ADDENDUM #3
4	06/10/21	ADDENDUM #4

DRAWING
REFLECTED CEILING PLAN
RESOURCE CENTER
BUILDING D

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET A-904



BUS GARAGE
MECHANICAL HVAC FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

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MILLIES ENGINEERING GROUP
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www.milliesengineeringgroup.com

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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PROJECT 20–141
DATE 05/17/21
COORDINATED BY JC
DRAWN BY RH/GL/LvB
CHECKED BY DJ

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

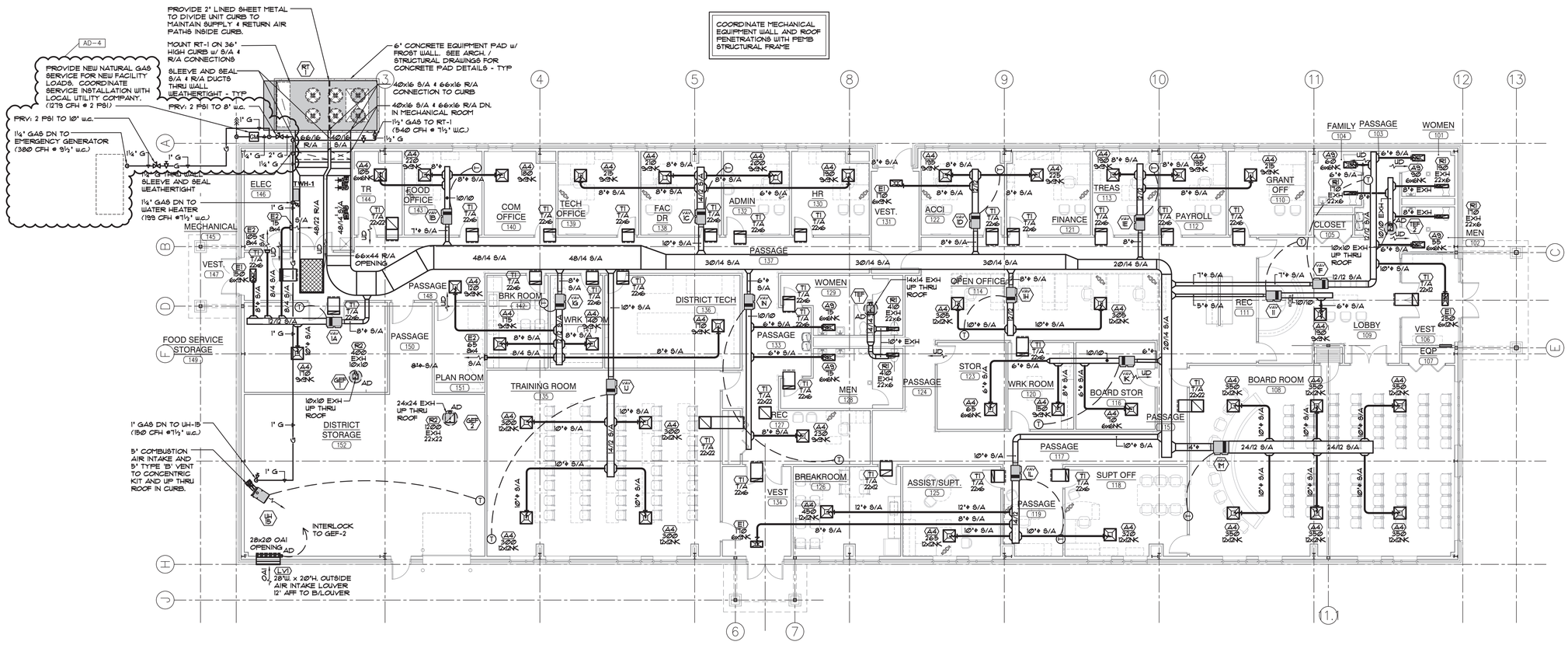
REVISIONS

MARK	DATE	ISSUED FOR
AD-1	05/28/21	ADDENDUM NO. 1
AD-2	06/04/21	ADDENDUM NO. 2
AD-4	06/10/21	ADDENDUM NO. 4

DRAWING
BUS GARAGE
MECHANICAL HVAC
FIRST FLOOR PLAN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
M-101



MECHANICAL FLOOR PLAN
RESOURCE CENTER BUILDING D

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

NORTH

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ENGINEERING GROUP
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PROJECT
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PROJECT 20-141
DATE 05/17/21
COORDINATED BY JC
DRAWN BY RH/GL/LvB
CHECKED BY DJ

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

REVISIONS

MARK	DATE	ISSUED FOR
AD-4	06/10/21	ADDENDUM NO. 4

DRAWING
MECHANICAL FLOOR PLAN
RESOURCE CENTER
BUILDING D

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
M-104

MECHANICAL EQUIPMENT SCHEDULE - RESOURCE CENTER

TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	EFFICIENCY	FAN MOTOR DATA							EXHAUST FANS					DX COOLING EQUIPMENT/COIL DATA								GAS FIRED HEATING EQUIPMENT DATA					ELECTRICAL DATA										UNITS CONTROLLED BY	EQUIPMENT WEIGHT	REMARKS
						MIN																							LOAD								STARTER:					
					CFM	OAI	TSP	ESP	BHP	HP	RPM	CFM	ESP	BHP	HP	RPM	MBH	SHC	EDB	EWB	LDB	LWB	CAT	STAGES	MBH (IN)	MBH (OUT)	EAT	LAT	STAGES	HP	MCA	FLA	AMPS	MOCP	VOLT	PHASE	HZ	MC.	EC.			
RT-1	AAON	RN-040	GRADE MOUNTED PACKAGED HVAC ROOFTOP - DX/GAS FIRED (VAV)	10 EER	9985	2275	-	2	8.21	15	1375	9985	Ø.55	1.6	3	1265	411	303	79.7	64.8	80.4	49.8	95	MOD	540	432	39.7	79.8	MOD	-	217	-	-	250	208	3	60	X	-	FMS	7435	NOTE 1
UH-15	STERLING	XF-150	INTERIOR SUSPENDED GAS FIRED UNIT HEATER	-	2400	-	-	-	-	1/4	1050	-	-	-	-	-	-	-	-	-	-	-	-	150	124.5	60	90	1	-	-	-	4.1	-	120	1	60	-	X	FMS	157	NOTE 2
GEF-1	TWIN CITY	DCRD-Ø35BE	ROOF MOUNTED GENERAL EXHAUST FAN	-	-	-	-	-	-	-	-	395	Ø.5	-	1/4	1341	-	-	-	-	-	-	-	-	-	-	-	-	-	1/4	-	-	-	-	120	1	60	-	X	FMS	100	NOTE 3.
GEF-2	TWIN CITY	DCRD-160BE	ROOF MOUNTED GENERAL EXHAUST FAN	-	-	-	-	-	-	-	-	1200	Ø.5	-	1	919	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	120	1	60	-	X	FMS	200	NOTE 3.
TEF-1	TWIN CITY	DCRD-120BE	ROOF MOUNTED TOILET EXHAUST FAN	-	-	-	-	-	-	-	-	820	Ø.5	-	1/2	1304	-	-	-	-	-	-	-	-	-	-	-	-	-	1/2	-	-	-	-	120	1	60	-	X	WALL SWITCH	175	NOTE 3.
TEF-2	TWIN CITY	DCRD-Ø35BE	ROOF MOUNTED TOILET EXHAUST FAN	-	-	-	-	-	-	-	-	530	Ø.5	-	1/4	1422	-	-	-	-	-	-	-	-	-	-	-	-	-	1/4	-	-	-	-	120	1	60	-	X	WALL SWITCH	100	NOTE 3.

NOTE:
1. PROVIDE WITH:
 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,
 - S/A & POW EXH DIRECT DRIVE FANS W/VFD,
 - NON-FUSED DISCONNECT SWITCH
 - HINGED ACCESS PANELS
 - VIBRATION ISOLATION CURB W/ HUSHCORE DECK DS-52 ACOUSTICAL TREATMENT.
 - POWERED EXHAUST FAN W/BLDG PRESSURIZATION CONTROL.
 - ~~VARIABLE SPEED HEAT EXCHANGER~~ AD-4
 - MODULATING GAS W/HIGH TURNDOWN (SEE SCHEDULE)
 - FLUE DEFLECTOR
 - METAL MESH OUTSIDE AIR INTAKE HOOD FILTER
 - CONDENSER FAN W/VFD W/HEAD PRESSURE CONTROL & SITE GLASS
 - VAV HEATING & COOLING
 - HAIL CONDENSER COIL GUARD PROTECTION
 - FILTERS: ERV(OAI) - 2" 30%, ERV(EXH) - 2" 30%, EVAPORATOR - 4" MERV 13

SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. PROVIDE WITH:
 - VIBRATION ISOLATION HANGERS
 - CONCENTRIC VENT KIT

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

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

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

MECHANICAL EQUIPMENT SCHEDULE - BUS GARAGE

TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	EFFICIENCY	FAN MOTOR DATA							EXHAUST FANS					DX COOLING EQUIPMENT/COIL DATA								GAS FIRED HEATING EQUIPMENT DATA					ELECTRICAL DATA										UNITS CONTROLLED BY	EQUIP WEIGHT	REMARKS
						MIN																							LOAD								STARTER:					
					CFM	OAI	TSP	ESP	BHP	HP	RPM	CFM	ESP	BHP	HP	RPM	MBH	SHC	EDB	EWB	LDB	LWB	CAT	STAGES	MBH (IN)	MBH (OUT)	EAT	LAT	STAGES	HP	MCA	FLA	AMPS	MOCP	VOLT	PHASE	HZ	MC.	EC.			
RT-2A	AAON	RN-031	ROOF MOUNTED PACKAGED HVAC ROOFTOP - HEATING ONLY GAS FIRED (CV)	-	9810	9810	-	1	7.9	15	1358	9810	Ø.5	5.9	Ø.25	1247	-	-	-	-	-	-	-	-	540	432	42	82.5	MOD	-	50	-	-	70	460	3	60	X	-	CO2 SENSOR CONTROL	5768	NOTE 1
RT-2B	AAON	RN-031	ROOF MOUNTED PACKAGED HVAC ROOFTOP - HEATING ONLY GAS FIRED (CV)	-	9810	9810	-	1	7.9	15	1358	9810	Ø.5	5.9	Ø.25	1247	-	-	-	-	-	-	-	-	540	432	42	82.5	MOD	-	50	-	-	70	460	3	60	X	-	CO2 SENSOR CONTROL	5768	NOTE 1
F-2/DX-2	CARRIER	59TP6B100//CNPVP60	VERTICAL UPFLOW GAS FIRED FURNACE (96% AFUE) / DX COOLING COIL	-	1780	360	-	Ø.5	-	-	-	-	-	-	-	-	55.5	40.3	77.9	65.1	56.7	54.9	-	-	100	97	-	-	2	-	19.4	-	-	20	120	1	60	X	-	FMS/WALL MTD TSTAT	-	NOTE 2
CU-2	CARRIER	24ABB36	GRADE-MOUNTED AIR COOLED CONDENSING UNIT (14.0 SEER)	-	-	-	-	-	-	-	-	-	-	-	-	-	55.5	-	-	-	-	-	95	1	-	-	-	-	-	-	10.5	-	-	15	460	3	60	X	-	INTERK TO F-2	230	NOTE 3
UH-6	STERLING	XF-250	INTERIOR SUSPENDED GAS FIRED UNIT HEATER	82%	2950	-	-	-	-	1/3	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	250	207	60	100	1	-	-	-	5.8	-	120	1	60	X	-	WALL MTD TSTAT	292	NOTE 4
UH-7	STERLING	XF-250	INTERIOR SUSPENDED GAS FIRED UNIT HEATER	82%	2950	-	-	-	-	1/3	1725	-	-	-	-	-	-	-	-	-	-	-	-	-	250	207	60	100	1	-	-	-	5.8	-	120	1	60	X	-	WALL MTD TSTAT	260	NOTE 4
UH-8	STERLING	XF-250	INTERIOR SUSPENDED GAS FIRED UNIT HEATER	82%	2950	-	-	-	-	1/3	1725	-	-	-	-	-	-	-	-	-	-	-	-	-	250	207	60	100	1	-	-	-	5.8	-	120	1	60	X	-	WALL MTD TSTAT	260	NOTE 4
UH-9	STERLING	XF-250	INTERIOR SUSPENDED GAS FIRED UNIT HEATER	82%	2950	-	-	-	-	1/3	1725	-	-	-	-	-	-	-	-	-	-	-	-	-	250	207	60	100	1	-	-	-	5.8	-	120	1	60	X	-	WALL MTD TSTAT	260	NOTE 4
UH-10	STERLING	XF-250	INTERIOR SUSPENDED GAS FIRED UNIT HEATER	82%	2950	-	-	-	-	1/3	1725	-	-	-	-	-	-	-	-	-	-	-	-	-	250	207	60	100	1	-	-	-	5.8	-	120	1	60	X	-	WALL MTD TSTAT	260	NOTE 4
UH-11	STERLING	XF-250	INTERIOR SUSPENDED GAS FIRED UNIT HEATER	82%	2950	-	-	-	-	1/3	1725	-	-	-	-	-	-	-	-	-	-	-	-	-	250	207	60	100	1	-	-	-	5.8	-	120	1	60	X	-	WALL MTD TSTAT	260	NOTE 4
UH-12	STERLING	XF-250	INTERIOR SUSPENDED GAS FIRED UNIT HEATER	82%	2950	-	-	-	-	1/3	1725	-	-	-	-	-	-	-	-	-	-	-	-	-	250	207	60	100	1	-	-	-	5.8	-	120	1	60	X	-	WALL MTD TSTAT	260	NOTE 4
UH-13	STERLING	XF-250	INTERIOR SUSPENDED GAS FIRED UNIT HEATER	82%	2950	-	-	-	-	1/3	1725	-	-	-	-	-	-	-	-	-	-	-	-	-	250	207	60	100	1	-	-	-	5.8	-	120	1	60	X	-	WALL MTD TSTAT	260	NOTE 4
UH-14	STERLING	GG-30	INTERIOR SUSPENDED GAS FIRED UNIT HEATER	82%	1100	-	-	-	-	1/10	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	90	73.8	60	100	1	-	-	-	4.2	-	120	1	60	X	-	WALL MTD TSTAT	95	NOTE 4
GEF-5	TWIN CITY	DCRD-360D	ROOF MOUNTED GENERAL EXHAUST FAN	-	-	-	-	-	-	-	-	9810	Ø.5	-	2	457	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	480	3	60	X	-	CO2 SENSOR CONTROL	400	NOTE 5
GEF-6	TWIN CITY	DCRD-360D	ROOF MOUNTED GENERAL EXHAUST FAN	-	-	-	-	-	-	-	-	9810	Ø.5	-	2	457	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	480	3	60	X	-	CO2 SENSOR CONTROL	400	NOTE 5
GEF-7	TWIN CITY	DCRD-180BE	ROOF MOUNTED GENERAL EXHAUST FAN	-	-	-	-	-	-	-	-	3190	Ø.5	-	1	1027	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	120	1	60	X	-	CO2 SENSOR CONTROL	250	NOTE 5
GEF-11	TWIN CITY	T1500H	CABINET GENERAL EXHAUST FAN w/INTEGRAL GRILLE	-	-	-	-	-	-	-	-	1320	Ø.5	-	3/4	940	-	-	-	-	-	-	-	-	-	-	-	-	-	3/4	-	-	-	-	120	1	60	-	X	CONTINUOUS	50	NOTE 6
TEF-5	TWIN CITY	DCRD-Ø85BE	ROOF MOUNTED TOILET EXHAUST FAN	-	-	-	-	-	-	-	-	1110	Ø.5	-	1/6	1145	-	-	-	-	-	-	-	-	-	-	-	-	-	1/6	-	-	-	-	120	1	60	-	X	WALL SWITCH	100	NOTE 5

NOTE:
1. PROVIDE WITH:
 PROVIDE WITH:
 - INTEGRATED ECONOMIZER WITH DIFFERENTIAL ENTHALPY SENSORS
 - FEEDBACK SIGNAL W/ IECC 2015 COMPLIANT LOW LEAK ECONOMIZER DAMPER,
 - S/A & POW EXH DIRECT DRIVE FANS W/VFD,
 - NON-FUSED DISCONNECT SWITCH
 - HINGED ACCESS PANELS
 - 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(EXH) - 2" 30%, EVAPORATOR - 4" MERV 13

SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

2. PROVIDE WITH:
 - CASED DX COIL
 - CONCENTRIC VENT ADAPTER KIT
 - 30% FILTERS AND RACK
 - PROGRAMMABLE THERMOSTAT

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

3. PROVIDE WITH:
 - NON FUSED DISCONNECT
 - 4" CONCRETE EQUIPMENT PAD

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

4. PROVIDE WITH:
 - VIBRATION ISOLATION HANGERS
 - CONCENTRIC VENT KIT

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

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

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

6. PROVIDE WITH:
 - BUILT IN BACK DRAFT DAMPER
 - VIBRATION ISOLATORS
 - WALL CAP

SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

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PROJECT
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PROJECT
20-141
DATE
05/17/21
COORDINATED BY
JC
DRAWN BY
RH/GL/LvB
CHECKED BY
DJ

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

REVISIONS

MARK	DATE	ISSUED FOR
AD-4	06/10/21	ADDENDUM NO. 4

DRAWING
MECHANICAL SCHEDULES

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
M-601

MECHANICAL EQUIPMENT SCHEDULE - MAINTENANCE GARAGE

TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	EFFICIENCY	FAN MOTOR DATA							EXHAUST FANS					DX COOLING EQUIPMENT/COIL DATA								GAS FIRED HEATING EQUIPMENT DATA					ELECTRICAL DATA										UNITS CONTROLLED BY	EQUIPMENT WEIGHT	REMARKS
					CFM	MIN OAI	TSP	ESP	BHP	HP	RPM	CFM	ESP	BHP	HP	RPM	MBH	SHC	EDB	EWB	LDB	LWB	CAT	STAGES	MBH (IN)	MBH (OUT)	EAT	LAT	STAGES	LOAD HP	MCA	FLA	AMPS	MOCP	VOLT	PHASE	HZ	STARTER BY: MC.	STARTER BY: EC.			
PTAC-1	FRIGIDAIRE	FRP18T	PACKAGED TERMINAL AIR CONDITIONING UNIT W/ELECTRIC HEAT	-	315	35	-	-	-	-	-	-	-	-	-	-	14.6	-	-	-	-	-	95	1	-	-	-	-	-	-	20.5	-	-	30	208	1	60	-	-	INTEGRAL T-STAT	117	NOTE 1
UH-3	STERLING	GG-120	INTERIOR SUSPENDED GAS FIRED UNIT HEATER	82%	1475	-	-	-	-	1/10	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	120	98.4	60	100	1	-	-	-	4.2	-	120	1	60	X	-	WALL MTD T-STAT	110	NOTE 2
UH-4	STERLING	GG-120	INTERIOR SUSPENDED GAS FIRED UNIT HEATER	82%	1475	-	-	-	-	1/10	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	120	98.4	60	100	1	-	-	-	4.2	-	120	1	60	X	-	WALL MTD T-STAT	110	NOTE 2
UH-5	STERLING	GG-120	INTERIOR SUSPENDED GAS FIRED UNIT HEATER	82%	1475	-	-	-	-	1/10	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	120	98.4	60	100	1	-	-	-	4.2	-	120	1	60	X	-	WALL MTD T-STAT	110	NOTE 2
GEF-4	TWIN CITY	DCRD-160BE	ROOF MOUNTED GENERAL EXHAUST FAN	-	-	-	-	-	-	-	-	2050	Ø.5	-	1	1108	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	115	1	60	-	X	CO2 SENSOR SYS	250	NOTE 3
GEF-10	TWIN CITY	T30ØV	CABINET GENERAL EXHAUST FAN W/INTEGRAL GRILLE	-	-	-	-	-	-	-	-	140	Ø.5	-	1/3	686	-	-	-	-	-	-	-	-	-	-	-	-	-	1/3	-	-	-	-	115	1	60	-	X	CONTINUOUS	50	NOTE 4
TEF-4	TWIN CITY	DCRD-060BE	ROOF MOUNTED TOILET EXHAUST FAN	-	-	-	-	-	-	-	-	130	Ø.4	-	1/6	1630	-	-	-	-	-	-	-	-	-	-	-	-	-	1/6	-	-	-	-	115	1	60	-	X	WALL SWITCH	90	NOTE 3

NOTE:
1. PROVIDE WITH:
   - INTEGRAL S/A & R/A GRILLES
   - WALL SLEEVE AND LOUVER

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
2. PROVIDE WITH:
   - VIBRATION ISOLATION HANGERS
   - CONCENTRIC VENT KIT

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
3. PROVIDE WITH:
   - DISCONNECT SWITCH
   - ECM MOTOR WITH POTENTIOMETER SPEED CONTROLLER
   - MOTORIZED DAMPER
   - BIRD SCREEN
   - ROOF CURB

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
4. PROVIDE WITH:
   - BUILT IN BACK DRAFT DAMPER
   - VIBRATION ISOLATORS
   - WALL CAP

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

MECHANICAL EQUIPMENT SCHEDULE - MECHANICS BUILDING

TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	EFFICIENCY	FAN MOTOR DATA							EXHAUST FANS					DX COOLING EQUIPMENT/COIL DATA								GAS FIRED HEATING EQUIPMENT DATA					ELECTRICAL DATA										UNITS CONTROLLED BY	EQUIP WEIGHT	REMARKS
					CFM	MIN OAI	TSP	ESP	BHP	HP	RPM	CFM	ESP	BHP	HP	RPM	MBH	SHC	EDB	EWB	LDB	LWB	CAT	STAGES	MBH (IN)	MBH (OUT)	EAT	LAT	STAGES	LOAD HP	MCA	FLA	AMPS	MOCP	VOLT	PHASE	HZ	STARTER BY: MC.	STARTER BY: EC.			
F-1/DX-1	CARRIER	59TP6B060/CNPVP36	VERTICAL UPFLOW GAS FIRED FURNACE (96% AFUE) / DX COOLING COIL	96.30%	1050	145	-	Ø.5	-	-	-	-	-	-	-	-	31	25.5	78.5	64.7	56	54.9	-	-	60	58	59	109.9	2	-	10.9	-	-	15	120	1	60	X	-	WALL MTD T-STAT	188	NOTE 1
CU-1	CARRIER	24ABB336	GRADE-MOUNTED AIR COOLED CONDENSING UNIT (14.0 SEER)	11 EER	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-	95	1	-	-	-	-	-	-	7.1	-	-	15	460	3	60	X	-	INTERLOCK TO F-1	170	NOTE 2
UH-1	STERLING	XF-175	INTERIOR SUSPENDED GAS FIRED UNIT HEATER	82%	2850	-	-	-	-	1/3	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	175	145.2	60	100	1	-	-	-	5.8	-	120	1	60	X	-	WALL MTD T-STAT	195	NOTE 3
UH-2	STERLING	XF-175	INTERIOR SUSPENDED GAS FIRED UNIT HEATER	82%	2851	-	-	-	-	1/3	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	175	145.2	60	100	1	-	-	-	5.8	-	120	1	60	X	-	WALL MTD T-STAT	195	NOTE 3
UH-1A	STERLING	XF-175	INTERIOR SUSPENDED GAS FIRED UNIT HEATER (ALTERNATE)	82%	2852	-	-	-	-	1/3	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	175	145.2	60	100	1	-	-	-	5.8	-	120	1	60	X	-	WALL MTD T-STAT	195	NOTE 3
UH-2A	STERLING	XF-175	INTERIOR SUSPENDED GAS FIRED UNIT HEATER (ALTERNATE)	82%	2853	-	-	-	-	1/3	1050	-	-	-	-	-	-	-	-	-	-	-	-	-	175	145.2	60	100	1	-	-	-	5.8	-	120	1	60	X	-	WALL MTD T-STAT	195	NOTE 3
GEF-3	TWIN CITY	DCRD-160BE	ROOF MOUNTED GENERAL EXHAUST FAN	-	-	-	-	-	-	-	-	2445	Ø.5	-	1	1207	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	115	1	60	-	X	CO2 SENSOR SYS	250	NOTE 4
GEF-3A	TWIN CITY	DCRD-180BE	ROOF MOUNTED GENERAL EXHAUST FAN (ALTERNATE)	-	-	-	-	-	-	-	-	4405	Ø.5	-	2	1245	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	208	1	60	-	X	CO2 SENSOR SYS	275	NOTE 4
GEF-8	TWIN CITY	T30ØV	CABINET GENERAL EXHAUST FAN W/INTEGRAL GRILLE	-	-	-	-	-	-	-	-	165	Ø.5	-	1/3	710	-	-	-	-	-	-	-	-	-	-	-	-	-	1/3	-	-	-	-	115	1	60	-	X	CONTINUOUS	50	NOTE 5
GEF-9	TWIN CITY	T10ØH	CABINET GENERAL EXHAUST FAN W/INTEGRAL GRILLE	-	-	-	-	-	-	-	-	295	Ø.5	-	1/2	1104	-	-	-	-	-	-	-	-	-	-	-	-	-	1/2	-	-	-	-	115	1	60	-	X	CONTINUOUS	50	NOTE 5
TEF-3	TWIN CITY	DCRD-095BE	ROOF MOUNTED TOILET EXHAUST FAN	-	-	-	-	-	-	-	-	230	Ø.5	-	1/4	1281	-	-	-	-	-	-	-	-	-	-	-	-	-	1/4	-	-	-	-	115	1	60	-	X	WALL SWITCH	100	NOTE 4

NOTE:
1. PROVIDE WITH:
   - CASED DX COIL
   - CONCENTRIC VENT ADAPTER KIT
   - 30% FILTERS AND RACK
   - PROGRAMMABLE THERMOSTAT

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
2. PROVIDE WITH:
   - NON FUSED DISCONNECT
   - 4" CONCRETE EQUIPMENT PAD

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
3. PROVIDE WITH:
   - VIBRATION ISOLATION HANGERS
   - CONCENTRIC VENT KIT

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
4. PROVIDE WITH:
   - DISCONNECT SWITCH
   - ECM MOTOR WITH POTENTIOMETER SPEED CONTROLLER
   - MOTORIZED DAMPER
   - BIRD SCREEN
   - ROOF CURB

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
5. PROVIDE WITH:
   - BUILT IN BACK DRAFT DAMPER
   - VIBRATION ISOLATORS
   - WALL CAP

   SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

HEAT RECOVERY SCHEDULE

AD-4

UNIT TAG	MIXED SUPPLY AIR SUMMER CFM	MIXED SUPPLY AIR SUMMER DB	MIXED SUPPLY AIR SUMMER WB	MIXED SUPPLY AIR WINTER DB	MIXED SUPPLY AIR WINTER WB	RETURN AIR SUMMER CFM	RETURN AIR SUMMER DB	RETURN AIR SUMMER WB	RETURN AIR WINTER DB	RETURN AIR WINTER WB	EXHAUST AIR SUMMER CFM	EXHAUST AIR SUMMER DB	EXHAUST AIR SUMMER WB	EXHAUST AIR WINTER DB	EXHAUST AIR WINTER WB	OUTSIDE AIR SUMMER CFM	OUTSIDE AIR SUMMER DB	OUTSIDE AIR SUMMER WB	OUTSIDE AIR WINTER DB	OUTSIDE AIR WINTER WB	HEAT WHEEL DISCHARGE SUMMER CFM	HEAT WHEEL DISCHARGE SUMMER DB	HEAT WHEEL DISCHARGE SUMMER WB	HEAT WHEEL DISCHARGE WINTER DB	HEAT WHEEL DISCHARGE WINTER WB	REMARKS
		F		F			F		F			F		F			F		F			F		F		
RT-2A	9,810	81.2	66.9 F	41.9	36.0 F	Ø	75	63 F	70	53 F	9,810	88.4	70.1 F	16.0	16.0 F	9,810	95	75 F	-10	-11 F	9,810	81.2	66.9 F	41.9	36.0 F	-
RT-2B	9,810	81.2	66.9 F	41.9	36.0 F	Ø	75	63 F	70	53 F	9,810	88.4	70.1 F	16.0	16.0 F	9,810	95	75 F	-10	-11 F	9,810	81.2	66.9 F	41.9	36.0 F	-

MECHANICAL EQUIPMENT SCHEDULE - ELECTRIC HEATERS

TAG	MANUFACTURER	MODEL NUMBER	DESCRIPTION	FAN DATA S/A CFM	ELECTRIC HEAT DATA MBH	KW	EAT	LAT	ELECTRICAL DATA LOAD HP	MCA	FLA	AMPS	MOCP	VOLT	PHASE	HZ	DISC. SWT. MC.	DISC. SWT. EC.	UNITS CONTROLLED BY	EQUIP WEIGHT	REMARKS
ECH-1	QMARK	AWH4404F	WALL MOUNTED ELECTRIC CABINET HEATER	100	10.2	3.0	60	154	-	-	-	14.4	-	208	1	60	-	X	INTEGRAL T-STAT	40	-

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.	-
A3	NAILOR	6500-O	SUPPLY CEILING DIFFUSER	3-WAY	2' X 1' LAY-IN PANEL	SEE PLANS	O.B.D.	-
A9	NAILOR	6500-O	SUPPLY CEILING DIFFUSER	4-WAY	2' X 1' LAY-IN PANEL	SEE PLANS	O.B.D.	-
E1	NAILOR	61DH-O	SUPPLY CEILING REGISTER	DOUBLE DEFLECTION	2' X 1' LAY-IN PANEL	SEE PLANS	O.B.D.	HORIZONTAL FRONT BARS, VERTICAL BACK BARS
E2	NAILOR	61DH-O	SUPPLY CEILING REGISTER	DOUBLE DEFLECTION	SURFACE MOUNTED	SEE PLANS	O.B.D.	HORIZONTAL FRONT BARS, VERTICAL BACK BARS
K1	NAILOR	61DHC	SUPPLY REGISTER	DOUBLE DEFLECTION	DUCT MOUNTED	SEE PLANS	FULL LENGTH EXTRACTOR	PROVIDE W/ MILL FINISH
R1	NAILOR	6145H-O	RETURN/EXHAUST REGISTER	LOUVERED GRILLE	LAY-IN PANEL	SEE PLANS	O.B.D.	-
R2	NAILOR	6145H-O	RETURN/EXHAUST REGISTER	LOUVERED GRILLE	SURFACE MOUNTED	SEE PLANS	O.B.D.	-
T1	NAILOR	6145H	RETURN/EXHAUST/T.A. GRILLE	LOUVERED GRILLE	LAY-IN PANEL	SEE PLANS	-	-
T2	NAILOR	6145H	RETURN/EXHAUST/T.A. GRILLE	LOUVERED GRILLE	SURFACE MOUNTED	SEE PLANS	-	-

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

RT-1 VAV TERMINAL SCHEDULE

TAG	MANUFACTURER	MODEL	INLET DIA.	CFM SETTING MAX CFM	CFM SETTING MIN CFM	HEATING MIN CFM	ELEC REHEAT COIL DATA KW	ELEC REHEAT COIL DATA NO OF STEPS	ELECTRICAL DATA VOLTS	PHASE	HZ	REMARKS
1A	NAILOR	D30RE-08	8"	620	137	250	5.0	3	208	3	60	NOTE 1
1B	NAILOR	D30RE-07	7"	505	111	250	4.0	3	208	1	60	NOTE 1
1C	NAILOR	D30RE-10	10"	815	180	333	6.5	3	208	3	60	NOTE 1
1D	NAILOR	D30RE-08	8"	590	130	250	4.5	3	208	3	60	NOTE 1
1E	NAILOR	D30RE-08	8"	600	132	250	4.5	3	208	3	60	NOTE 1
1F	NAILOR	D30RE-07	7"	475	105	250	3.5	3	208	1	60	NOTE 1
1G	NAILOR	D30RE-08	8"	640	141	250	2.0	2	208	1	60	NOTE 2
1H	NAILOR	D30RE-08	8"	785	173	250	2.0	2	208	1	60	NOTE 2
1I	NAILOR	D30RE-05	5"	190	42	167	1.5	2	208	1	60	NOTE 2
1J	NAILOR	D30RE-10	10"	1,205	266	333	9.5	3	208	3	60	NOTE 1
1K	NAILOR	D30RE-06	6"	285	63	167	1.5	2	208	1	60	NOTE 2
1L	NAILOR	D30RE-10	10"	1,125	248	333	9.0	3	208	3	60	NOTE 1
1M	NAILOR	D30RE-14	14"	2,085	460	750	16.0	3	208	3	60	NOTE 1
1N	NAILOR	D30RE-06	6"	390	86	167	1.5	2	208	1	60	NOTE 2

NOTE 1: OPEN/CLOSE/OPEN SEQUENCE
NOTE 2: OPEN/CLOSE SEQUENCE

LOUVER SCHEDULE

TAG	MANUFACTURER	MODEL NO.	DESCRIPTION	SIZE	REMARKS
LV-1	NAILOR	1605WD	OUTSIDE AIR INTAKE LOUVER	SEE DRAWINGS	ALUMINUM KYNAR 500 CUSTOM FINISH SUBMIT COLOR CHARTS FOR APPROVAL

F-2 VVT TERMINAL SCHEDULE

TAG	MANUFACTURER	MODEL	INLET	CFM SETTING MAX.	CFM SETTING MIN.	MAX FPD	REMARKS
1A	CARRIER	33CSDC2408	8x24	1,180	186	.1"	-
1B	CARRIER	33CSDCDR08	8"	285	45	.1"	-
1C	CARRIER	33CSDCDR08	8"	200	31	.1"	-
1D	CARRIER	33CSDC1808	8x18	625	98	.1"	-

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PROJECT
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HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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PROJECT 20-141
DATE 05/17/21
COORDINATED BY JC
DRAWN BY RH/GL/LvB
CHECKED BY DJ

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

REVISIONS

MARK	DATE	ISSUED FOR
AD-4	06/10/21	ADDENDUM NO. 4

DRAWING
MECHANICAL SCHEDULES

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
M-602

DUCTWORK INSULATION/LINING SCHEDULE

REFER TO SPECIFICATIONS FOR ADDITIONAL INSULATION REQUIREMENTS

DUCTWORK TYPE	INSULATION TYPE	
	CONCEALED	EXPOSED
SUPPLY AIR DUCTWORK		
RECTANGULAR	1½" LINER	1½" LINER
ROUND	1½" WRAP, NOTE 1.	PERFORATED DOUBLE WALL
RETURN AIR DUCTWORK		
RECTANGULAR	1½" LINER, WITHIN 30'-0" OF UNIT	1½" LINER, WITHIN 30'-0" OF UNIT
ROUND	PERFORATED DOUBLE WALL, WITHIN 30'-0" OF UNIT	PERFORATED DOUBLE WALL, WITHIN 30'-0" OF UNIT
VAV BOXES		
INLET COLLAR	1½" WRAP	1½" WRAP
HOT WATER REHEAT COIL	1½" WRAP	1½" WRAP
EXHAUST DUCTWORK		
WITHIN 10'-0" OF EXHAUST FAN	½" LINER	½" LINER

NOTE 1: ROUND DUCT SUPPLYING ONE DIFFUSER AND MORE THAN 30'-0" FROM UNIT

ELECTRIC DUCT HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	INLET SIZE	MAX CFM	ELEC REHEAT COIL DATA		ELECTRICAL DATA			REMARKS
					KW	NO OF STEPS	VOLTS	PHASE	HZ	
EDH-1	THERMOLEC	SC-	10x12	475	3.5	1	208	1	60	-
EDH-2	THERMOLEC	SC-	10x10	285	2.0	1	208	1	60	-

NATURAL GAS CONNECTION SCHEDULE - BUS GARAGE

TAG	DESCRIPTION	LOCATION	CAPACITY CFH	REMARKS
F-2	VERTICAL UPFLOW GAS FIRED FURNACE (96% AFUE)	MECH	100	-
UH-6	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	BUS WASH	250	-
UH-7	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	BUS WASH	250	-
UH-8	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	GARAGE	250	-
UH-9	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	GARAGE	250	-
UH-10	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	GARAGE	250	-
UH-11	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	GARAGE	250	-
UH-12	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	GARAGE	250	-
UH-13	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	GARAGE	250	-
UH-14	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	EQUIP	90	-
	PRESSURE WASHER	EQUIP	939	ESTIMATE
		TOTAL	3129	CFH @ 8" w.c.

NATURAL GAS CONNECTION SCHEDULE - BUS GARAGE ALT

TAG	DESCRIPTION	LOCATION	CAPACITY CFH	REMARKS
RT-2A	INTERIOR SUSPENDED HEATING/VENTILATING UNIT (ALTERNATE)	GARAGE	540	-
RT-2B	INTERIOR SUSPENDED HEATING/VENTILATING UNIT (ALTERNATE)	GARAGE	540	-
F-2	VERTICAL UPFLOW GAS FIRED FURNACE (96% AFUE)	MECH	100	-
UH-6	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	BUS WASH	250	-
UH-7	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	BUS WASH	250	-
UH-14	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	EQUIP	90	-
	PRESSURE WASHER	EQUIP	939	ESTIMATE
		TOTAL	2709	CFH @ 8" w.c.

NATURAL GAS CONNECTION SCHEDULE - MECHANICS BUILDING

TAG	DESCRIPTION	LOCATION	CAPACITY CFH	REMARKS
F-1	VERTICAL UPFLOW GAS FIRED FURNACE (96% AFUE)	GRADE	60	-
UH-1	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	MAINTENANCE	175	-
UH-2	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	MAINTENANCE	175	-
UH-1A	INTERIOR SUPSENDED GAS FIRED UNIT HEATER (ALTERNATE)	MAINTENANCE	175	-
UH-2A	INTERIOR SUPSENDED GAS FIRED UNIT HEATER (ALTERNATE)	MAINTENANCE	175	-
		TOTAL	760	CFH @ 8" w.c.

NATURAL GAS CONNECTION SCHEDULE - MAINTENANCE GARAGE

TAG	DESCRIPTION	LOCATION	CAPACITY CFH	REMARKS
UH-3	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	STORAGE	120	-
UH-4	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	MAINTENANCE	120	-
UH-5	INTERIOR SUPSENDED GAS FIRED UNIT HEATER	MAINTENANCE	120	-
		TOTAL	360	CFH @ 8" w.c.

NATURAL GAS CONNECTION SCHEDULE - RESOURCE CENTER

TAG	DESCRIPTION	LOCATION	CAPACITY CFH	REMARKS
RT-1	GRADE MOUNTED PACKAGED HVAC ROOFTOP - DX/GAS FIRED (SZVAV)	GRADE	540	-
UH-15	VERTICAL UPFLOW GAS FIRED FURNACE (96% AFUE)	DISTRICT STORAGE	150	-
	TANKLESS WATER HEATER	MECHANICAL	199	-
	EMERGENCY GENERATOR	GRADE	380	-
		TOTAL	1269	CFH @ 2 PSI

AD-4

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DRAWING
MECHANICAL SCHEDULES

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
M-603

PLUMBING EQUIPMENT AND 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)	ELECTRICAL DATA HP	KW	FLA	AMPS	MOCP	VOLT	PH	HZ.
WC-1	WATER CLOSET	VITREOUS CHINA, WALL MOUNTED	AMERICAN STANDARD #2257.101	NOTE #1	MANUAL FLUSH VALVE	SLOAN "REGAL PRO" #116-1.6	NOTE #10	BEMIS #1155-C SEAT	-	-	-	-	-	-	-	-
WC-2	WATER CLOSET	VITREOUS CHINA, WALL MOUNTED, ADA	AMERICAN STANDARD #2257.101	NOTE #1	MANUAL FLUSH VALVE	SLOAN "REGAL PRO" #111-1.6	NOTE #10	BEMIS #1155-C SEAT	-	-	-	-	-	-	-	-
UR-1	URINAL	VITREOUS CHINA, WALL MOUNTED, ADA	AMERICAN STANDARD #6501.001	NOTE #1	MANUAL FLUSH VALVE	SLOAN "REGAL PRO" #186-1.0	NOTE #10	-	-	-	-	-	-	-	-	-
L-1	LAVATORY	VITREOUS CHINA, WALL MOUNTED, 20"x18", ADA	AMERICAN STANDARD #0355.012	NOTE #1	ELECTRONIC BATTERY SENSOR, 4" CENTERS	SLOAN #EBF-187	NOTE #11	MCGUIRE #PW-2150-WC 1-1/2" PROWRAP, MCGUIRE #155167CCLK SUPPLIES	-	-	-	-	-	-	-	-
EWC-1	ELECTRIC WATER COOLER	ELECTRIC WALL MOUNTED W/ BOTTLE FILLER	ELKAY #LZS8WSLP	NOTE #2	-	-	-	-	-	-	-	-	-	120	1	60
EWC-2	ELECTRIC WATER COOLER	ELECTRIC WALL MOUNTED , DUAL LEVEL W/ BOTTLE FILLER	ELKAY #LZSTL8WSLP	NOTE #2	-	-	-	-	-	-	-	-	-	115	1	60
SH-1	SHOWER	-	-	-	1-HANDLE PRESSURE/TEMP. BALANCED	POWERS #E710-M-2-6-B-W	NOTE #11	HANDHELD SHOWER HEAD, HOSE, WALL BRACKET, VACUUM BREAKER AND 24" SLIDEBAR	-	-	4.8	-	-	115	1	60
S-1	SINK	TWO COMPARTMENT SINK (AD-4)	ELKAY #LRADQ-3319	NOTE #3	2 HANDLE, HIGH GOOSENECK	CHICAGO FAUCET CO. #785	NOTE #11	ELKAY #35 STRAINER, ELKAY #LK-53 DRAIN ASSEMBLY, MCGUIRE #155167CCLK SUPPLIES	-	-	-	-	-	-	-	-
S-2	SINK	SINGLE COMPARTMENT 48"x20"x5-1/2"	ELKAY #EMA48204	NOTE #3	WALL MOUNTED SERVICE FAUCET	CHICAGO FAUCET CO. #897	NOTE #11	STRAINER, DRAIN ASSEMBLY, MCGUIRE #155167CCLK SUPPLIES	-	-	-	-	-	-	-	-
MB-1	MOP BASIN	MOLDED STONE, 36"x36"x6"H	FIAT #SB-3636	NOTE #4	WALL MOUNTED SERVICE FAUCET	CHICAGO FAUCET CO. #897	NOTE #11	W/ 3/4" HOSE THREAD, VACUUM BREAKER, WALL BRACE	-	-	-	-	-	-	-	-
FD-1	FLOOR DRAIN	CAST IRON BODY, ADJUSTABLE 6"x6" NICKEL BRONZE TOP	WADE #1100-G6	NOTE #5	-	-	-	VANDALPROOF SCREWS, PLUGGED TRAP PRIMER	-	-	-	-	-	-	-	-
FS-1	FLOOR SINK	CAST IRON, 8-1/8" DEEP, ACID RESISTING, 12"x12" TOP	WADE #3140	NOTE #5	-	-		ALUMINUM DOME STRAINER, SECURED HINGED GRATE, SLOPED RIM	-	-	-	-	-	-	-	-
SC-1	SILLCOCK	NON-FREEZE, VACUUM BREAKER, REMOVABLE KEY	WADE #8600	NOTE #6	-	-	-	-	-	-	-	-	-	-	-	-
TW-1	TEMPERED WATER VALVE	TEMPERED WATER VALVE	BRADLEY #559-4000A TMV	NOTE #7	-	-	-	-	-	-	-	-	-	-	-	-
DB-1	DOMESTIC BOOSTER PUMP	75 GPM @ 65 PSI DISCHARGE W/ SUCTION @ 30 PSI	METROPOLITAN #M8-MT111-2D-FHI-35B	-	-	-		W/ 106 GAL. TANK, 3" SUCTION/ 3" DISCHARGE, (50-GPM @ 80-FT. TDH EA. PUMP)	(2) 2	-	-	-	-	480	3	60
TWH-1	TANKLESS WATER HEATER	199 MBH, 4.1 GPM @ 90 DEGREE RISE (GAS FIRED)	NORITZ #NCC199I-DV	-	-	-	-	ISOLATION KIT, TEMP. RELIEF VALVE, DRAIN VALVE AND CONDENSATE PIPED TO FLOOR DRAIN	-	-	-	-	-	120	1	60
WH-1	WATER HEATER	15 KW, 77 GPH, 50 GAL. STORAGE	STATE #CSB 52 15 SFE	NOTE #8	-	-	-	-	-	15	-	-	-	208	1	60
WH-2	WATER HEATER	6 KW, 24 GPH, 30 GAL. STORAGE	STATE #PCE 30 20L6A	NOTE #8	-	-	-	-	-	6	-	-	-	208	1	60
IWH-1	WATER HEATER	56° RISE @ 0.5 GPM FLOW RATE, UNIT TO OPERATE AT 30 PSI MIN.	EEMAX #5PEX4208T	-	-	-	-	-	-	4.1	-	-	-	208	1	60
IWH-2	WATER HEATER	56° RISE @ 0.5 GPM FLOW RATE, UNIT TO OPERATE AT 30 PSI MIN.	EEMAX #5PEX4208T	-	-	-	-	-	-	4.1	-	-	-	208	1	60
IWH-3	WATER HEATER	59° RISE @ 1 GPM FLOW RATE, UNIT TO OPERATE AT 30 PSI MIN.	EEMAX #5PEX12240T	-	-	-	-	-	-	8.7	-	-	-	208	1	60
IWH-4	WATER HEATER	59° RISE @ 1 GPM FLOW RATE, UNIT TO OPERATE AT 30 PSI MIN.	EEMAX #5PEX12240T	-	-	-	-	-	-	8.7	-	-	-	208	1	60
OS-1	OIL SEPARATOR	314 GPM, 560 GAL. STORAGE	STRIEM OT-500	-	-	-	-	-	-	-	-	-	-	-	-	-
OS-2	OIL SEPARATOR	314 GPM, 560 GAL. STORAGE	STRIEM OT-500	-	-	-	-	-	-	-	-	-	-	-	-	-
OS-3	OIL SEPARATOR	100 GPM, 250 GAL. STORAGE	STRIEM OS-100	-	-	-	-	-	-	-	-	-	-	-	-	-
EMEW-1	EMERGENCY EYEWASH	BOWL AND DUST COVER, ADA	BRADLEY #S19224	-	-	-	-	PROVIDED W/ NAVIGATOR 813-2000 EFX8 EMERGENCY THERMOSTATIC MIXING VALVE	-	-	-	-	-	-	-	-
SD-1	SEDIMENT BASIN	INSTALLED IN "TD-1" TRENCH DRAIN	ZURN #Z887-6-HD	-	-	-	-	-	-	-	-	-	-	-	-	-
TD-1	TRENCH DRAIN	PRESLOPED HIGH DENSITY POLYPROPYLENE	ZURN #Z-886-LC	-	-	-	-	STAINLESS STEEL LOCKDOWN, WITH HEAVY DUTY GRATE	-	-	-	-	-	-	-	-
RCP-1	RECIRCULATING PUMP	2.5 GPM @ 14' HEAD, ALL BRONZE CONSTRUCTION	B&G #PL-36	NOTE #3	-	-	-	W/ STRAP ON AQUASTAT	1/6	-	-	-	-	120	1	60

NOTE #1: GERBER, CRANE, KOHLER, ZURN

NOTE #2: OASIS, HAWS, SUNROC

NOTE #3: JUST

NOTE #4: MUSTEE, SWAN

NOTE #5: ZURN, JOSAM, J.R. SMITH, MIFAB

NOTE #6: JOSAM, ZURN, J.R. SMITH, WOODFORD

NOTE #7: LEONARD, POWERS, LAWLER

NOTE #8: LOCHINVAR, A.O. SMITH

NOTE #9: METROPOLITAN, TACO

NOTE #10: ZURN, TOTO

NOTE #11: ZURN, 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. LAYOUT WORK TO AVOID CONFLICTS BETWEEN DUCTWORK, LIGHTING, CEILINGS, PIPING AND BUILDING STRUCTURE.

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

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

G. COORDINATE VENT THROUGH ROOF LOCATIONS WITH OUTDOOR AIR INTAKE LOCATIONS TO MAINTAIN A MINIMUM SEPARATION OF TEN FEET.

H. PROVIDE AND INSTALL PLENUM WRAP, TESTED TO UL 84 AND UL 910, ON ALL EXISTING PVC PIPING IN NEW OR EXISTING RETURN AIR CEILING PLENUMS.

I. 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.

J. ISOLATION VALVES SHALL BE INSTALLED OVER ACCESSIBLE CEILINGS. WHEN ISOLATION VALVES ARE INSTALLED OVER INACCESSIBLE CEILING AREAS, IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO FURNISH AND INSTALL 12" X 12" (MINIMUM) CEILING ACCESS DOORS. TYPE TO BE VANDALPROOF, TAMPERPROOF ASSEMBLIES. INSTALLATION TO BE COORDINATED WITH GENERAL CONTRACTOR.

K. INVERT ELEVATIONS SHALL BE FIELD COORDINATED WITH FINAL GRADING PLANS TO ENSURE PROPER INSTALLATION.

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

M. PROTECT DRAIN OPENINGS AND SANITARY LINES DURING CONSTRUCTION TO PREVENT BLOCKAGE

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

SYMBOLS AND ABBREVIATIONS

- UNDERGROUND SANITARY SEWER
- COLD WATER PIPING
- HOT WATER PIPING
- HOT WATER RECIRCULATION PIPING
- VENT PIPING
- OVERHEAD SANITARY PIPING
- OIL WASTE SANITARY
- PIPE DOWN
- PIPE UP
- SHUT-OFF VALVE
- CHECK VALVE
- HOSE BIBB/SILL COCK
- RELIEF VALVE
- SHOWER HEAD
- BALANCING COCK/MANUAL FLOW CONTROL VALVE
- THERMOMETER
- PRESSURE GAUGE
- SHEET NOTE TAG

CO	CLEANOUT
CW	COLD WATER
DBP	DOMESTIC BOOSTER PUMP
DN	DOWN
EMSH	EMERGENCY SHOWER AND EYEWASH
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FIN. FL.	FINISHED FLOOR
FIN. GR.	FINISHED GRADE
FS	FLOOR SINK
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
IM	ICEMAKER VALVE BOX
INV. EL.	INVERT ELEVATION
IWH	INSTANTANEOUS WATER HEATER
L	LAVATORY
MB	MOP BASIN
RCP	HOT WATER RECIRCULATION PUMP
S	SINK
SC	SILL COCK
SH	SHOWER
TD	TRENCH DRAIN
TW	TEMPERED WATER
TWH	TANKLESS WATER HEATER
UR	URINAL
V	VENT
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WH	WATER HEATER
YCO	YARD CLEANOUT

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PROJECT 20-141
DATE 05/17/21
COORDINATED BY JC
DRAWN BY RH/GL/LvB
CHECKED BY DJ

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

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	05/28/21	ADDENDUM NO. 1
AD-2	06/04/21	ADDENDUM NO. 2
AD-4	06/10/21	ADDENDUM NO. 4

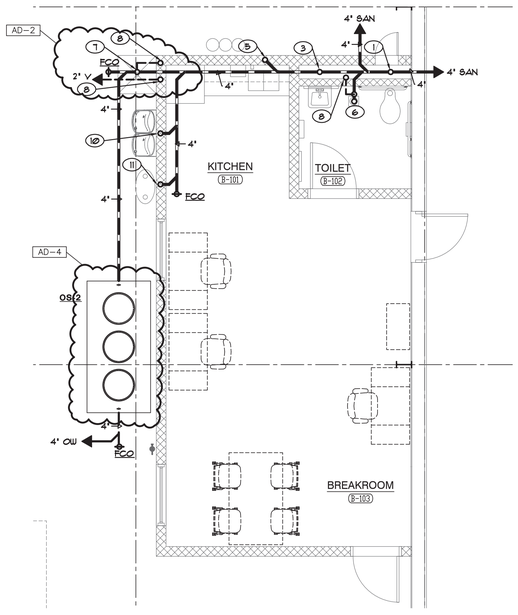
DRAWING
PLUMBING NOTES, SYMBOLS, ABBREVIATIONS & SCHEDULES

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET P-001

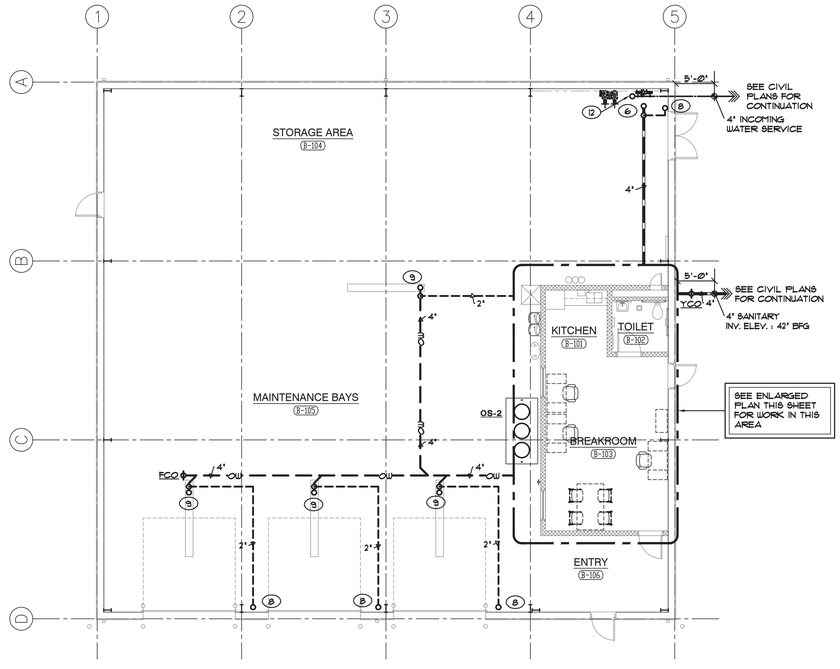
SHEET NOTES

1. 4" SANITARY UP TO WATER CLOSET
2. 2" SANITARY UP TO URINAL
3. 1½" SANITARY UP TO LAVATORY
4. 2" SANITARY UP TO (2) LAVATORY
5. 2" SANITARY UP TO SINK
6. 4" SANITARY UP TO FLOOR DRAIN/SINK
7. 4" SANITARY UP TO MOP BASIN
8. 2" VENT UP
9. 4" SANITARY UP TO TRENCH DRAIN
10. 1½" SANITARY UP TO ELECTRIC WATER COOLER
11. 2" SANITARY UP TO EMERGENCY EYEWASH
12. 4" INCOMING WATER SERVICE UP



ENLARGED KITCHEN/TOILET
PLUMBING UNDERFLOOR PLAN
SCALE: 1/4" = 1'-0"

NORTH



PLUMBING UNDERFLOOR PLAN
MAINTENANCE BUILDING
BUILDING B
SCALE: 1/8" = 1'-0"

NORTH

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AD-4	06/10/21	ADDENDUM NO. 4

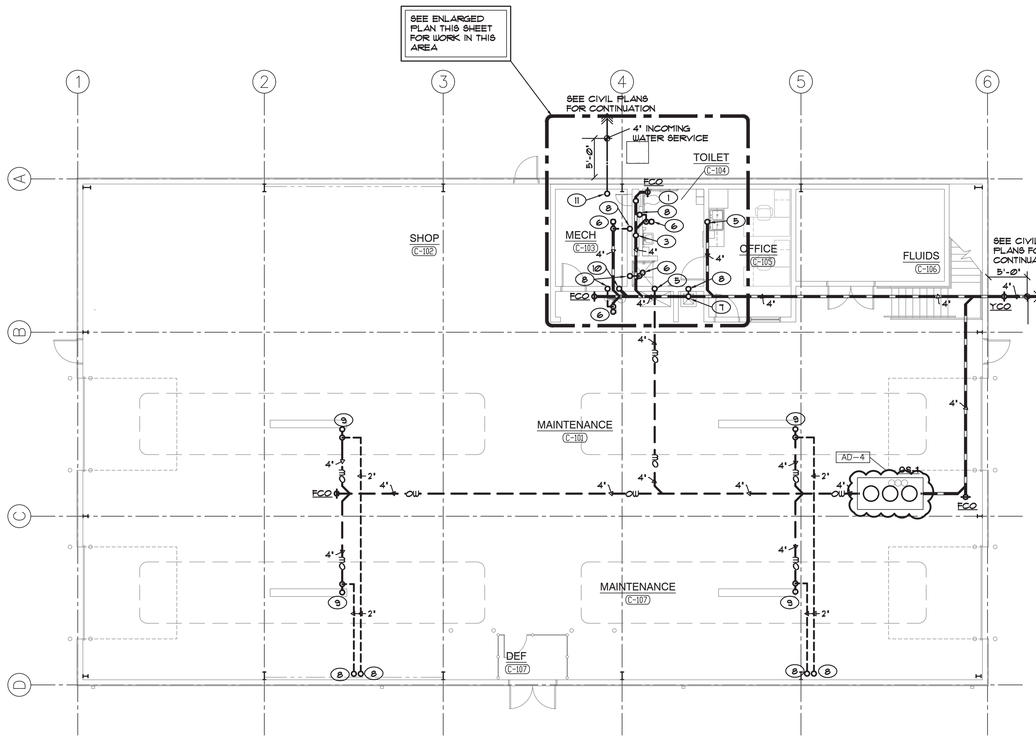
DRAWING
PLUMBING UNDERFLOOR PLANS
MAINTENANCE BUILDING
BUILDING B

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
P-102

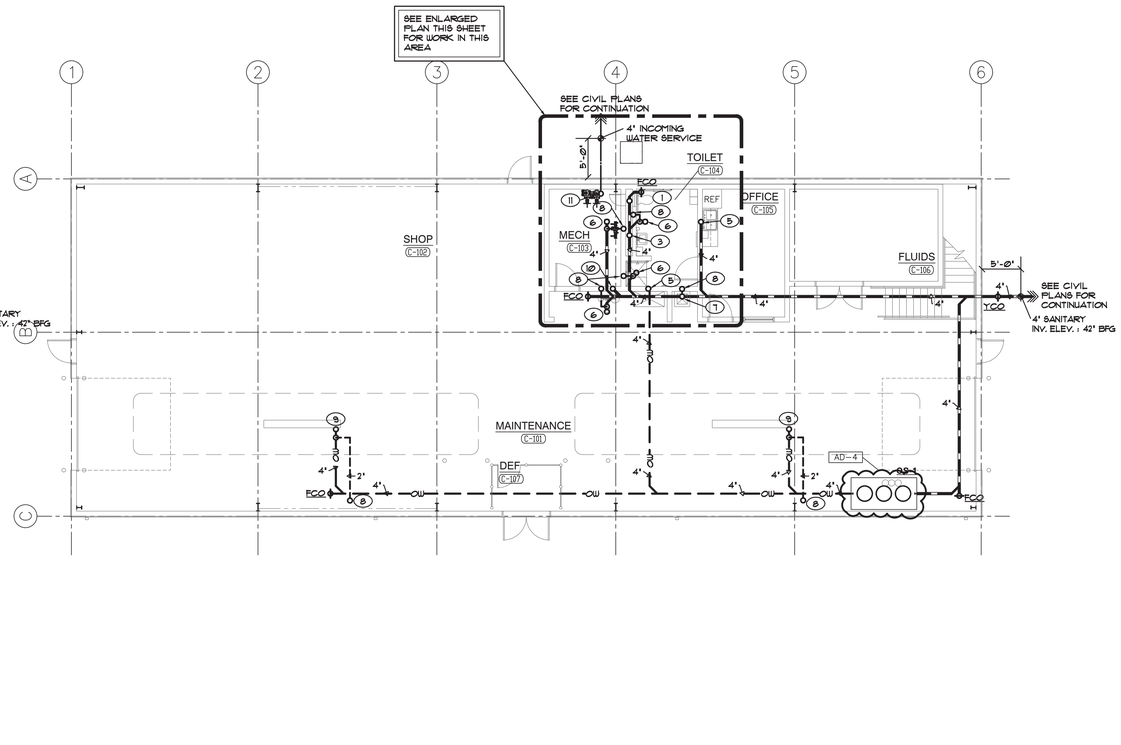
SHEET NOTES

1. 4" SANITARY UP TO WATER CLOSET
2. 2" SANITARY UP TO URINAL
3. 1½" SANITARY UP TO LAVATORY
4. 2" SANITARY UP TO (2) LAVATORY
5. 2" SANITARY UP TO SINK
6. 4" SANITARY UP TO FLOOR DRAIN/SINK
7. 4" SANITARY UP TO MOP BASIN
8. 2" VENT UP
9. 4" SANITARY UP TO TRENCH DRAIN
10. 2" SANITARY UP TO EMERGENCY EYEWASH
11. 4" INCOMING WATER SERVICE UP



PLUMBING UNDERFLOOR PLAN
MECHANICS BUILDING
BUILDING C - ALTERNATE
SCALE: 1/8" = 1'-0"

NORTH



PLUMBING UNDERFLOOR PLAN
MECHANICS BUILDING
BUILDING C - BASE BID
SCALE: 1/8" = 1'-0"

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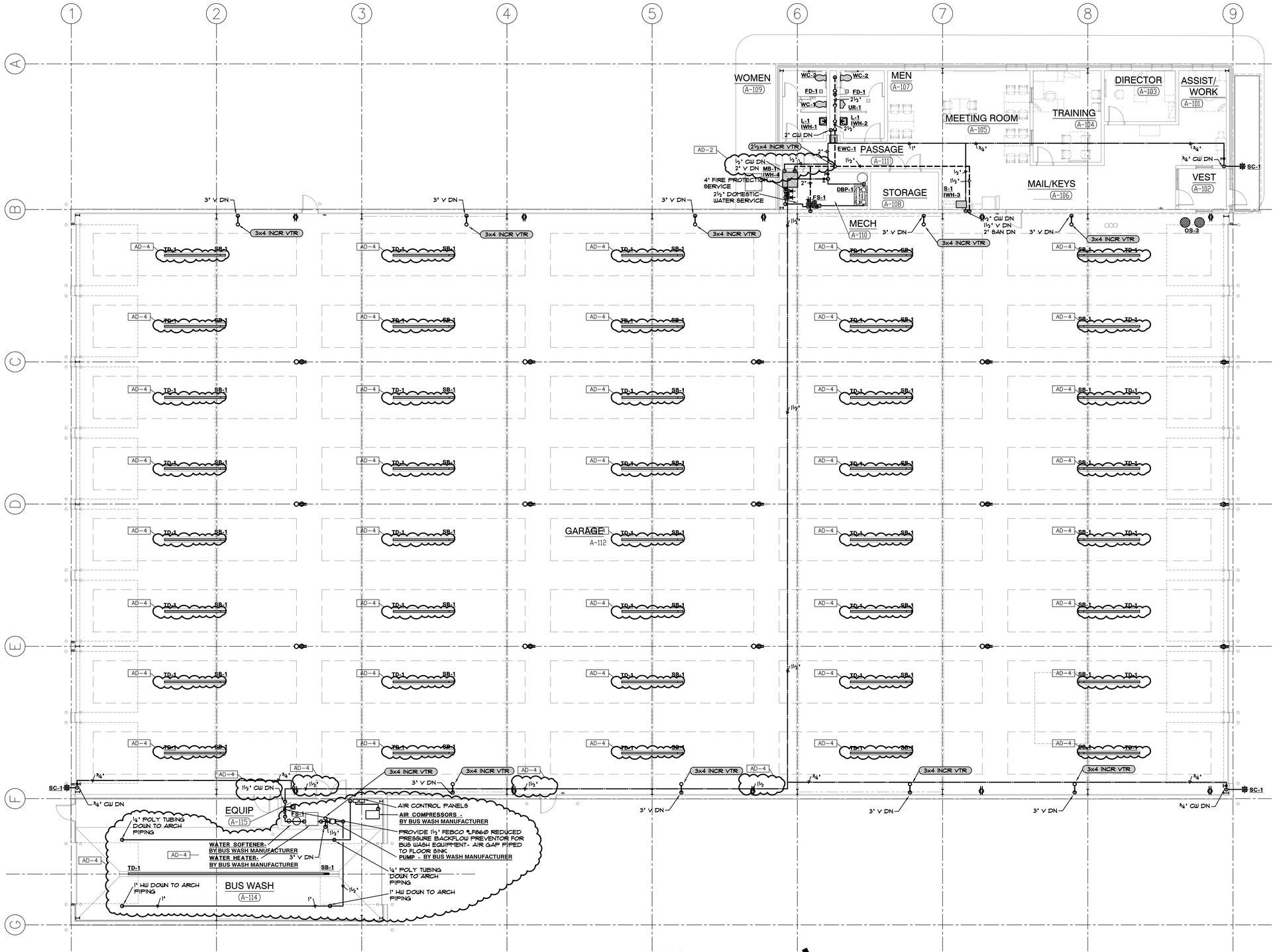
REVISIONS

MARK	DATE	ISSUED FOR
AD-4	06/10/21	ADDENDUM NO. 4

DRAWING
PLUMBING UNDERFLOOR PLANS
MECHANICS BUILDING
BUILDING C

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
P-103



PLUMBING FLOOR PLAN
BUS GARAGE BUILDING A
SCALE: 1/8" = 1'-0"

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DAVID G. JANNETT
NO. 10302590
STATE OF INDIANA

REVISIONS

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AD-4	06/10/21	ADDENDUM NO. 4

DRAWING
PLUMBING FLOOR PLAN
BUS GARAGE
BUILDING A

PROJECT
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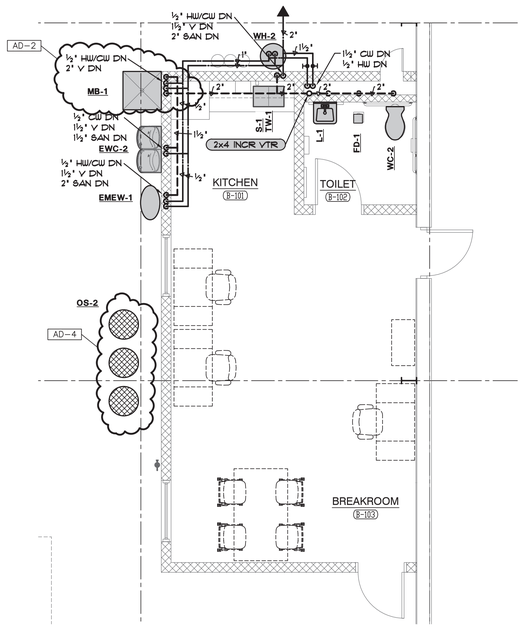
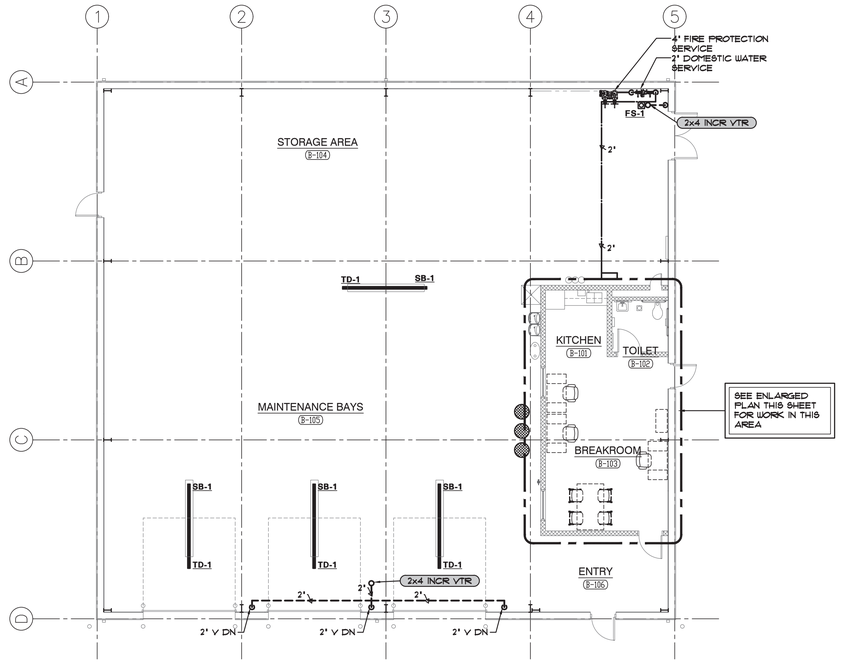
SHEET
P-111



ENLARGED KITCHEN/TOILET
PLUMBING FLOOR PLAN

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

NORTH



PLUMBING FLOOR PLAN
MAINTENANCE BUILDING
BUILDING B

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

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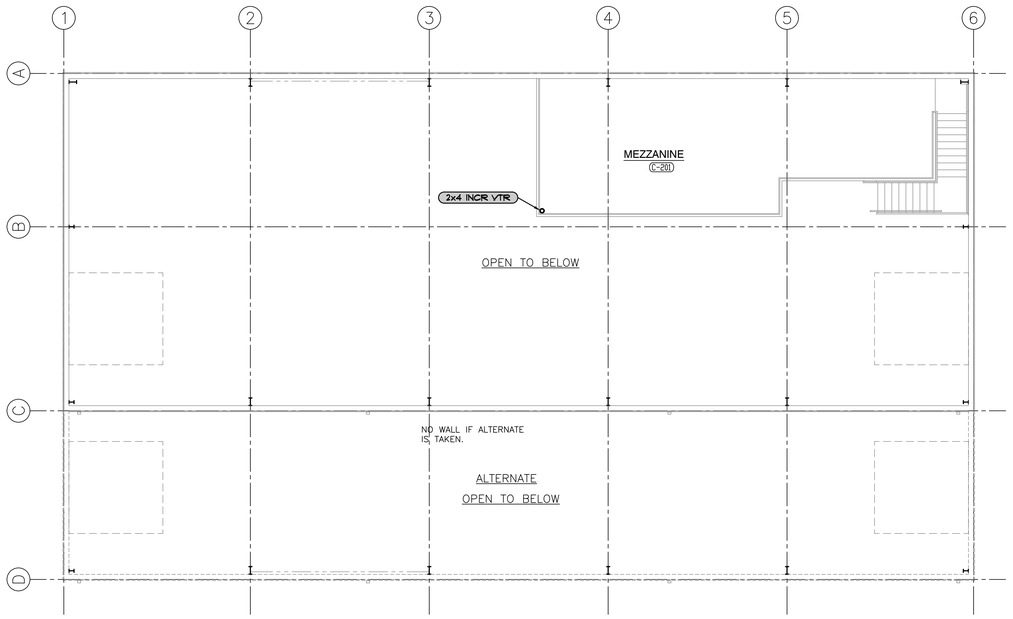
DRAWING
PLUMBING PLANS
MAINTENANCE BUILDING
BUILDING B

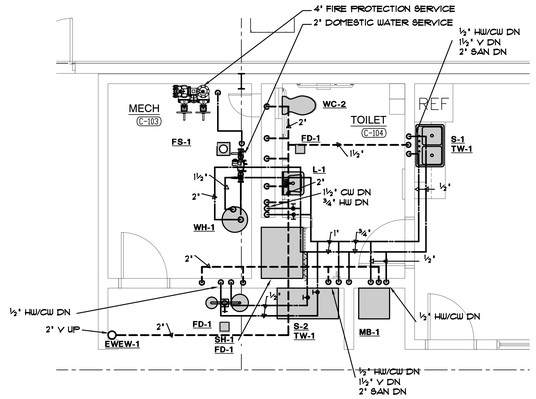
PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
P-112



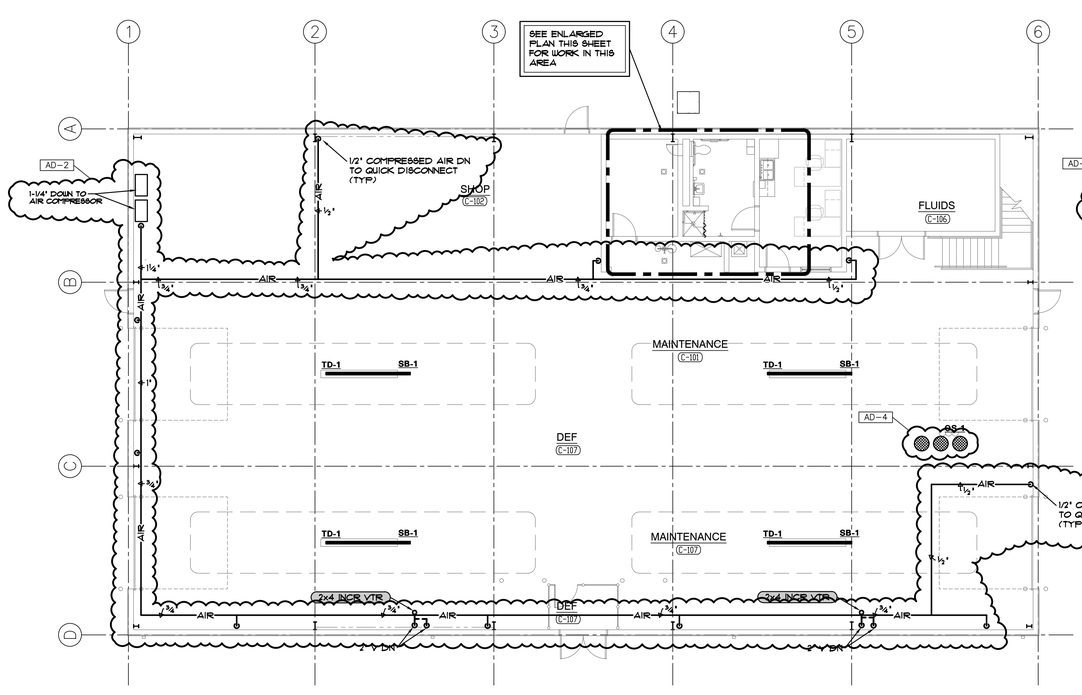
PLUMBING MEZZANINE PLAN
MECHANICS BUILDING
BUILDING C
SCALE: 1/8" = 1'-0"

NORTH



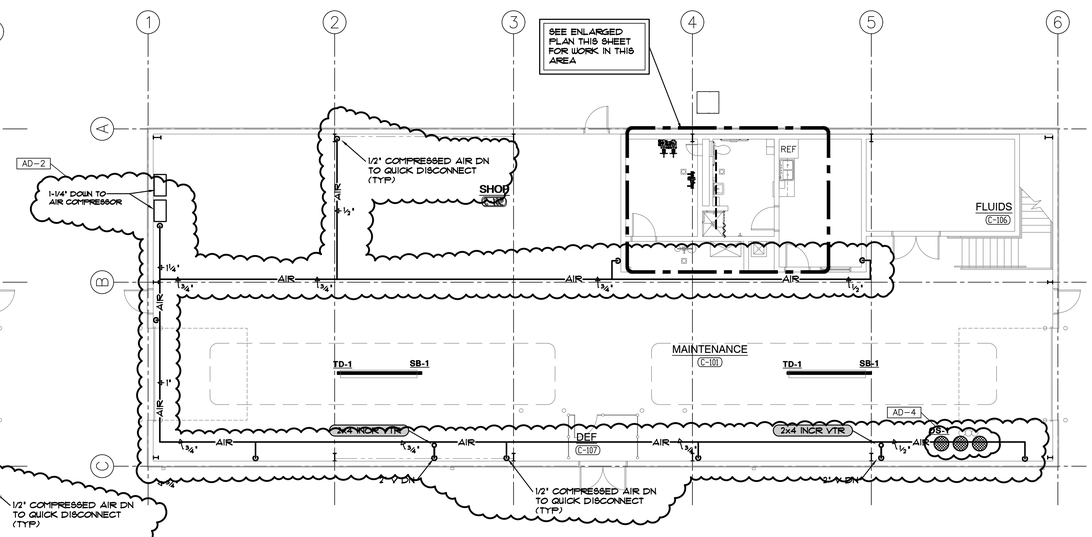
PLUMBING ENLARGED PLAN
MECHANICS BUILDING
BUILDING C
SCALE: 1/4" = 1'-0"

NORTH



PLUMBING FLOOR PLAN
MECHANICS BUILDING
BUILDING C - ALTERNATE
SCALE: 1/8" = 1'-0"

NORTH



PLUMBING FLOOR PLAN
MECHANICS BUILDING
BUILDING C - BASE BID
SCALE: 1/8" = 1'-0"

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STATE OF INDIANA
PROFESSIONAL ENGINEER

REVISIONS

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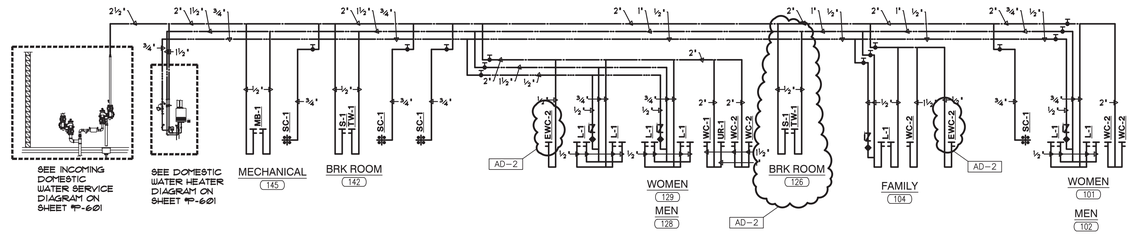
AD-4	06/10/21	ADDENDUM NO. 4

DRAWING
PLUMBING PLANS
MECHANICS BUILDING
BUILDING C

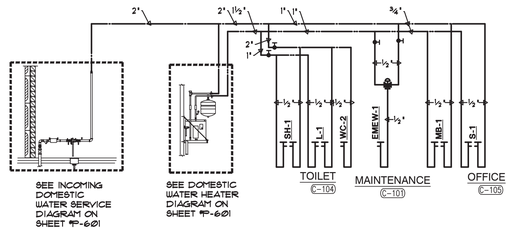
PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
P-113

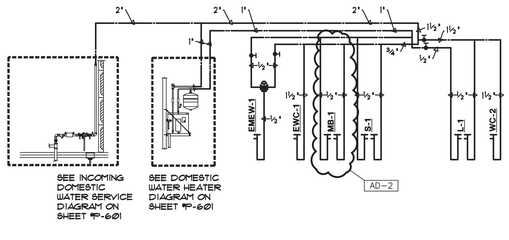
DOMESTIC COLD, HOT AND HOT RETURN WATER PIPING DIAGRAM



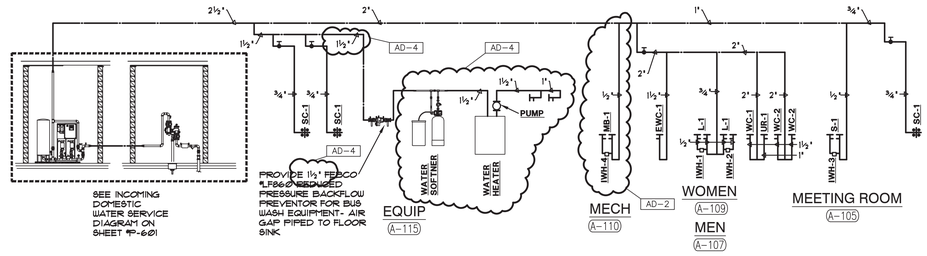
RESOURCE CENTER



MECHANICS BUILDING/
MECHANICS BUILDING
(ALTERNATE)

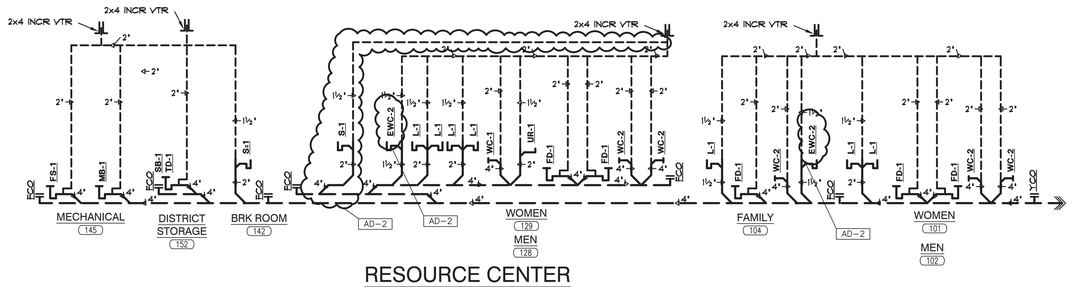


MAINTENANCE BUILDING

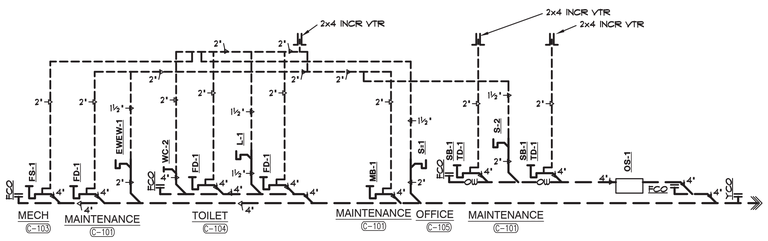


BUS GARAGE

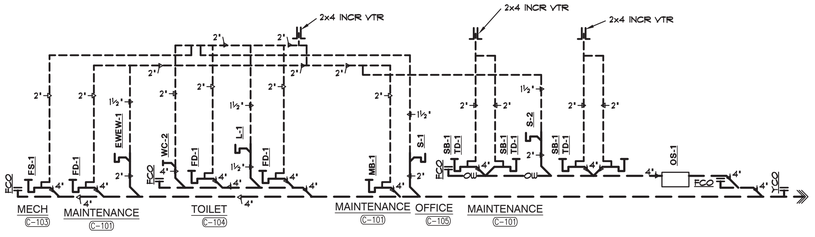
SANITARY AND VENT PIPING DIAGRAM



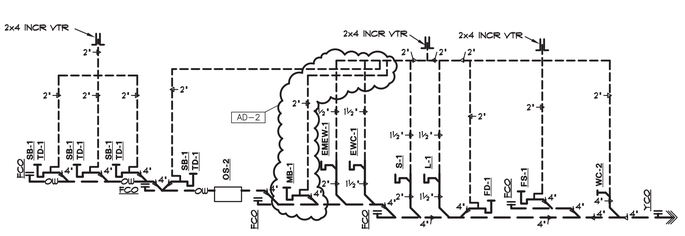
RESOURCE CENTER



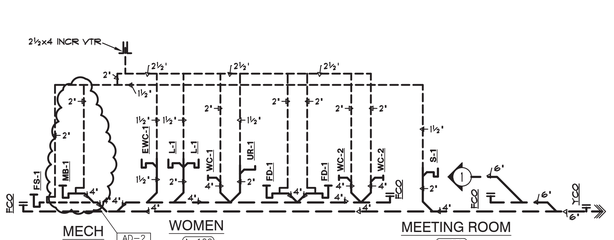
MECHANICS BUILDING



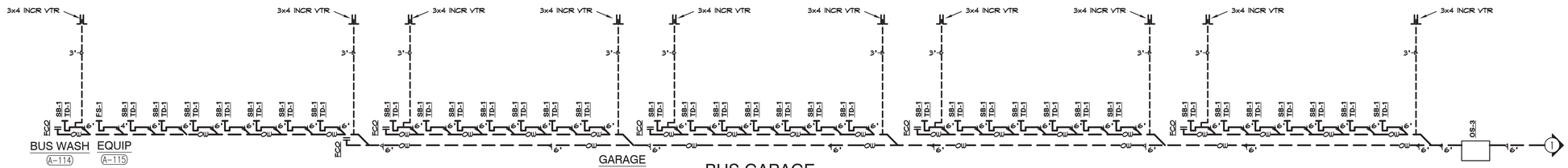
MECHANICS BUILDING
(ALTERNATE)



MAINTENANCE BUILDING



BUS GARAGE



BUS GARAGE

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PROJECT 20-141
DATE 05/17/21
COORDINATED BY JC
DRAWN BY RH/GL/LvB
CHECKED BY DJ

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

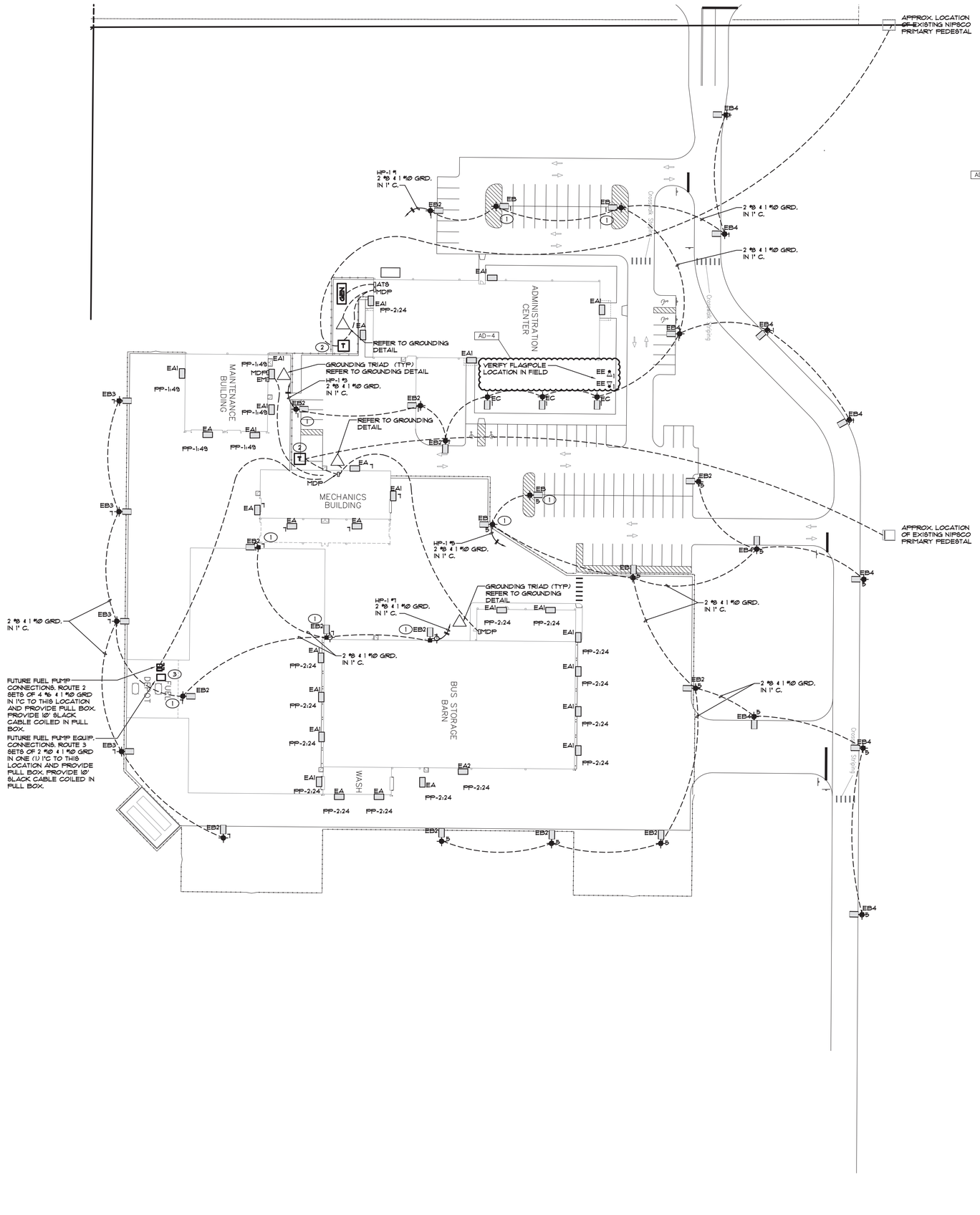
REVISIONS

MARK	DATE	ISSUED FOR
AD-2	06/04/21	ADDENDUM NO. 2
AD-4	06/10/21	ADDENDUM NO. 4

DRAWING
PLUMBING RISER DIAGRAMS

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
P-502



SHEET NOTES

1. PROVIDE 30' POLE BASE FOR FIXTURE LOCATED IN ASPHALT AREA.
2. UTILITY COMPANY PAD MOUNTED TRANSFORMER. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
3. PROVIDE THE ADDITIONAL CONDUITS (IN ADDITION TO WHAT IS SHOWN ON THE PLAN) FOR THE PUMPING SYSTEM. PROVIDE TWO (2) 2" AND FIVE (5) ¾" EMPTY CONDUITS FOR LOW VOLTAGE CABLING. PROVIDE ONE (1) ¾" CONDUIT WITH DEDICATED 30A CIRCUIT FOR CONTROL EQUIPMENT AND ONE (1) ¾" CONDUIT WITH 30A DEDICATED CIRCUIT FOR LIGHTING. VERIFY ALL LOCATIONS AND ROUTING OF CONDUIT WITH FINAL APPROVED PUMPING EQUIPMENT SHOP DRAWINGS. PROVIDE ALL ADDITIONAL CONDUITS AND POWER CONNECTIONS AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION. CONNECT BRANCH CIRCUITS SHOWN ON PLAN AND THE ADDITIONAL CIRCUITS IN THIS NOTE TO PANEL PP-1 IN MECHANICS BUILDING, COMPLETE AS REQUIRED.

AD-4

AD-4

GENERAL NOTES

1. SITE LIGHTING CONDUCTORS SHALL BE #8 AWG MINIMUM AND SIZED TO MEET NEC VOLTAGE DROP REQUIREMENTS.
2. UNLESS OTHERWISE NOTED, ROUTE LIGHTING TO CIRCUITS INDICATED IN PANEL HIP-1 IN MECHANICS BUILDING.
3. ALL FIXTURES WITH 'EB' TAG TO BE MOUNTED 25' A.F.G.
4. ALL FIXTURES WITH 'EC' TAG TO BE MOUNTED 15' A.F.G.
5. REFER TO LIGHTING FLOOR PLAN DRAWINGS FOR CIRCUITING INFORMATION FOR ALL WALL PACK FIXTURE LOCATIONS, TYPICAL
6. PROVIDE 6' POLE BASE UNLESS OTHERWISE NOTED. REFER TO SHEET NOTE #1 FOR 30' POLE BASE LOCATIONS.
7. REFER TO TECHNOLOGY DRAWINGS FOR TECHNOLOGY SITE WORK AND PROVIDE RACEWAY AND HAND-HOLE ROUGH-INS AS INDICATED.

NORTH

ELECTRICAL SITE PLAN
SCALE: 1"=40'0"

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DRAWING
ELECTRICAL SITE PLAN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

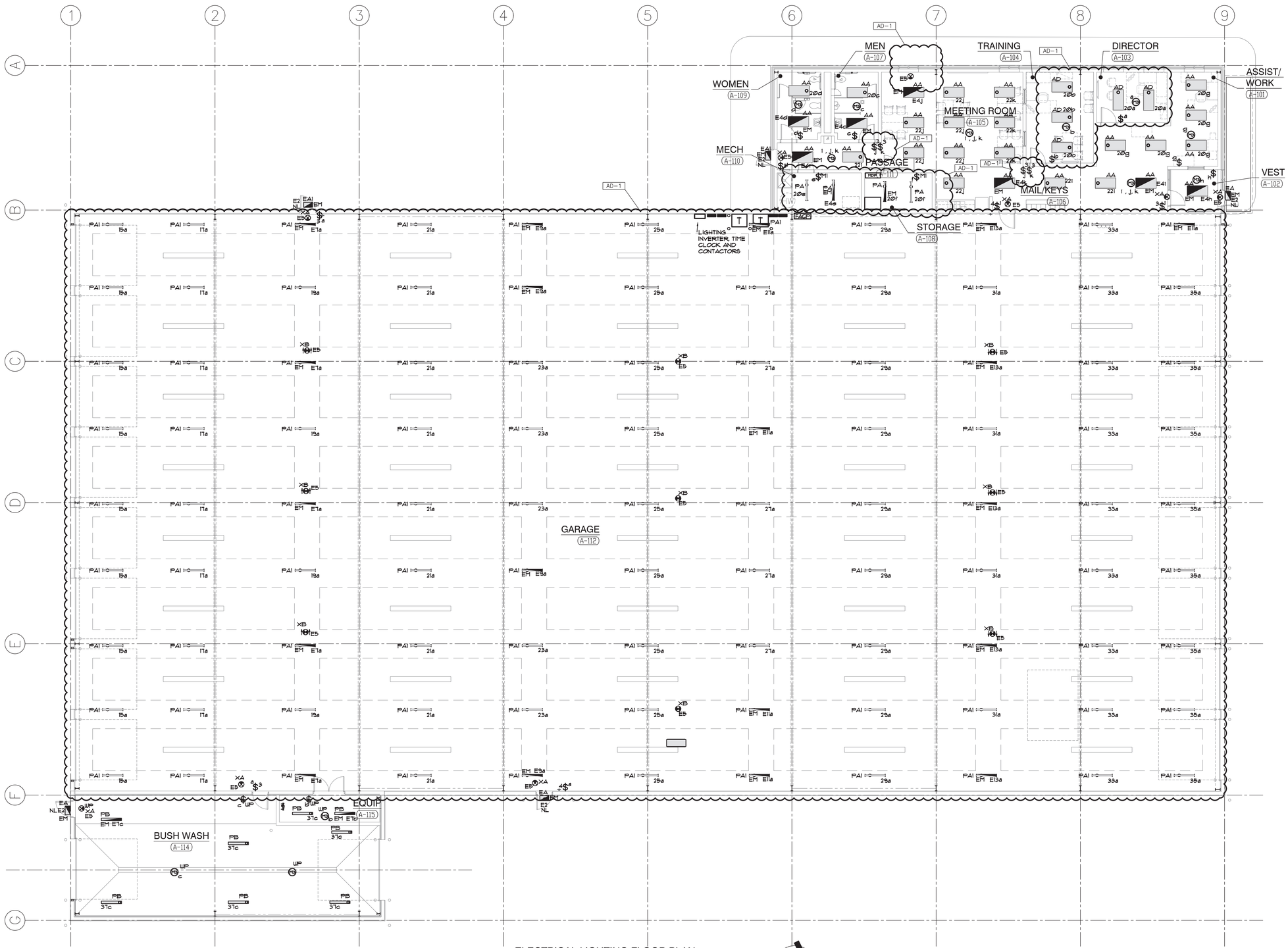
SHEET
E-002

GENERAL NOTES

1. INTERIOR LIGHTING SHALL BE CONNECTED TO CIRCUITS INDICATED IN PANEL PP-2 UNLESS NOTED OTHERWISE. INTERIOR LIGHTING CIRCUIT TAGS WITH AN 'E' PREFIX SHALL BE CIRCUITED TO CIRCUIT INDICATED IN PANEL EM. EMERGENCY FIXTURES WITH SWITCH TAG SHALL BE PROVIDED WITH CONSTANT HOT FEED AS REQUIRED.
2. EXTERIOR LIGHTING SHALL BE CONNECTED TO CIRCUITS INDICATED IN PANEL PP-2 VIA TIME CLOCK, PHOTOCELL AND CONTACTORS UNLESS NOTED OTHERWISE.

AD-4

3. EXTERIOR LIGHTING WITH AN 'E' PREFIX CIRCUIT TAG SHALL BE CONNECTED TO CIRCUIT INDICATED IN PANEL EM VIA TIME CLOCK, PHOTOCELL, CONTACTORS, AND LIGHTING INVERTER (OR INTEGRAL BATTERIES).



ELECTRICAL LIGHTING FLOOR PLAN
BUS GARAGE BUILDING A
SCALE: 1/8" = 1'-0"

NORTH

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AD-4	06/10/21	ADDENDUM NO. 4

DRAWING
ELECTRICAL LIGHTING FLOOR PLAN
BUS GARAGE
BUILDING A

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

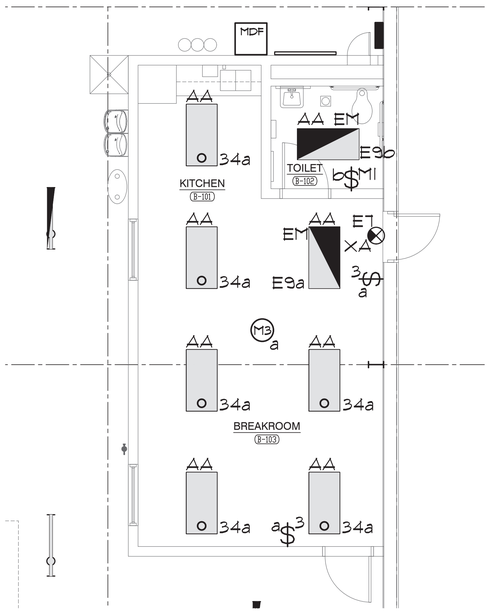
SHEET
EL101

GENERAL NOTES

1. INTERIOR LIGHTING SHALL BE CONNECTED TO CIRCUITS INDICATED IN PANEL PP-1 UNLESS NOTED OTHERWISE. INTERIOR LIGHTING CIRCUIT TAGS WITH AN 'E' PREFIX SHALL BE CIRCUITED TO CIRCUIT INDICATED IN PANEL EM. EMERGENCY FIXTURES WITH SWITCH TAG SHALL BE PROVIDED WITH CONSTANT HOT FEED AS REQUIRED.
2. EXTERIOR LIGHTING SHALL BE CONNECTED TO CIRCUITS INDICATED IN PANEL PP-1 VIA TIME CLOCK, PHOTOCELL AND CONTACTORS UNLESS NOTED OTHERWISE.

AD-4

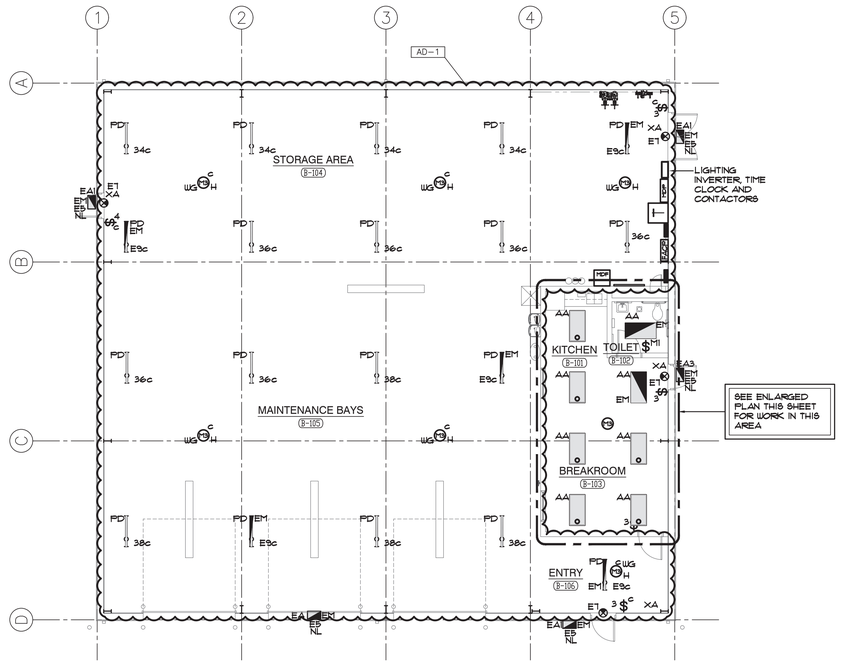
3. EXTERIOR LIGHTING WITH AN 'E' PREFIX CIRCUIT TAG SHALL BE CONNECTED TO CIRCUIT INDICATED IN PANEL EM VIA TIME CLOCK, PHOTOCELL, CONTACTORS, AND LIGHTING INVERTER (OR INTEGRAL BATTERIES).



ENLARGED KITCHEN, TOILET AND BREAK ROOM LIGHTING FLOOR PLAN

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

NORTH



ELECTRICAL LIGHTING FLOOR PLAN MAINTENANCE BUILDING BUILDING B

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

NORTH

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DRAWING

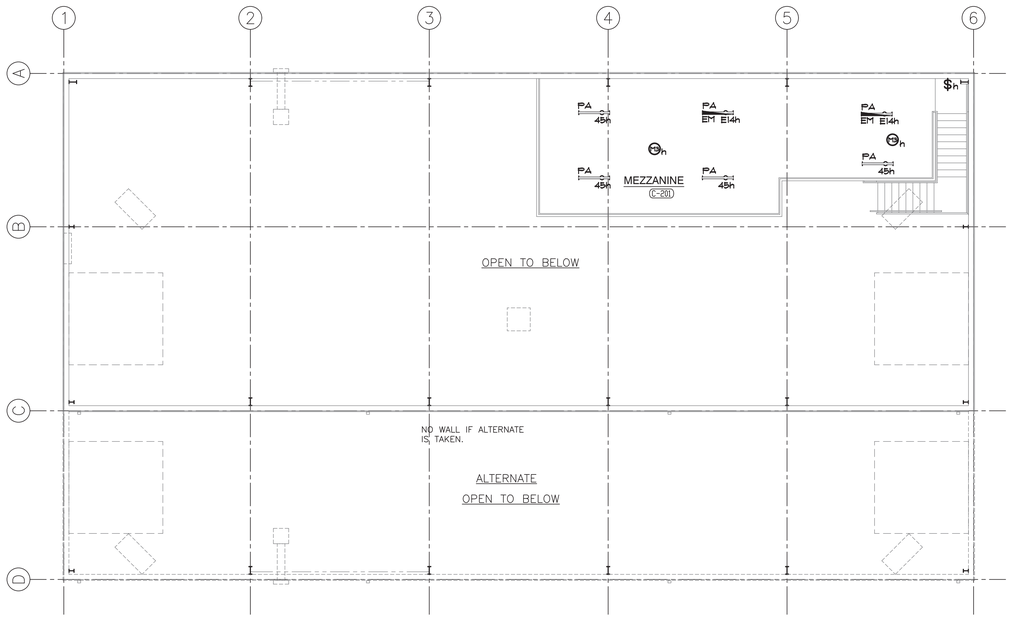
ELECTRICAL LIGHTING PLANS MAINTENANCE BUILDING BUILDING B

PROJECT

HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET

EL102



ELECTRICAL LIGHTING MEZZANINE PLAN
MECHANICS BUILDING
BUILDING C
SCALE: 1/8" = 1'-0"

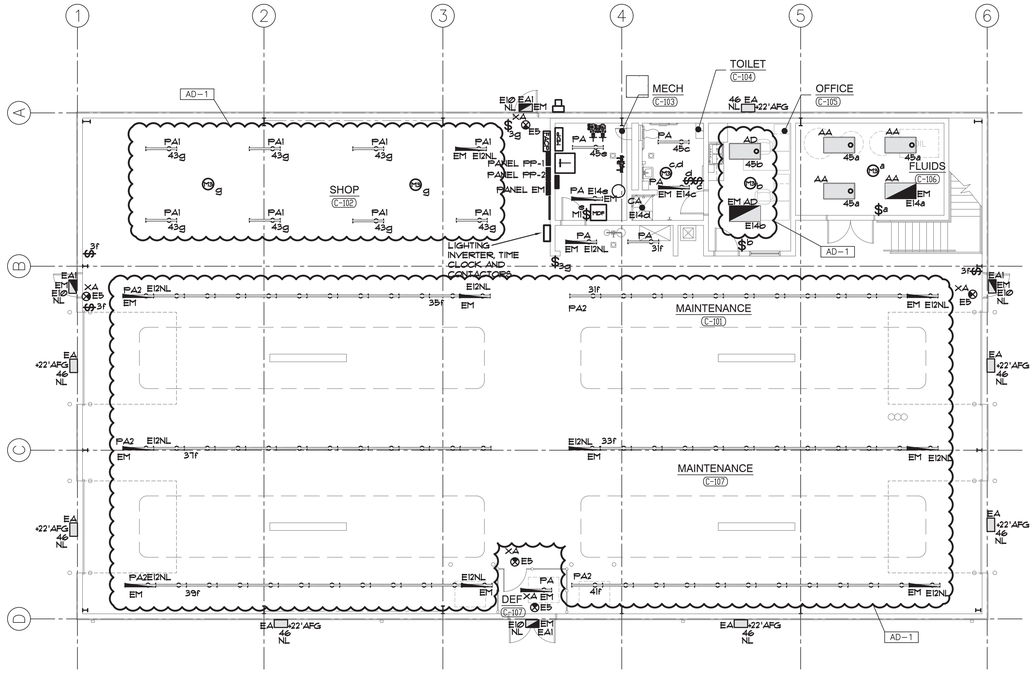
NORTH

GENERAL NOTES

1. INTERIOR LIGHTING SHALL BE CONNECTED TO CIRCUITS INDICATED IN PANEL PP-1 UNLESS NOTED OTHERWISE. INTERIOR LIGHTING CIRCUIT TAGS WITH AN 'E' PREFIX SHALL BE CIRCUITED TO CIRCUIT INDICATED IN PANEL EM. EMERGENCY FIXTURES WITH SWITCH TAG SHALL BE PROVIDED WITH CONSTANT HOT FEED AS REQUIRED.
2. EXTERIOR LIGHTING SHALL BE CONNECTED TO CIRCUITS INDICATED IN PANEL PP-1 VIA TIME CLOCK, PHOTOCELL AND CONTACTORS UNLESS NOTED OTHERWISE.

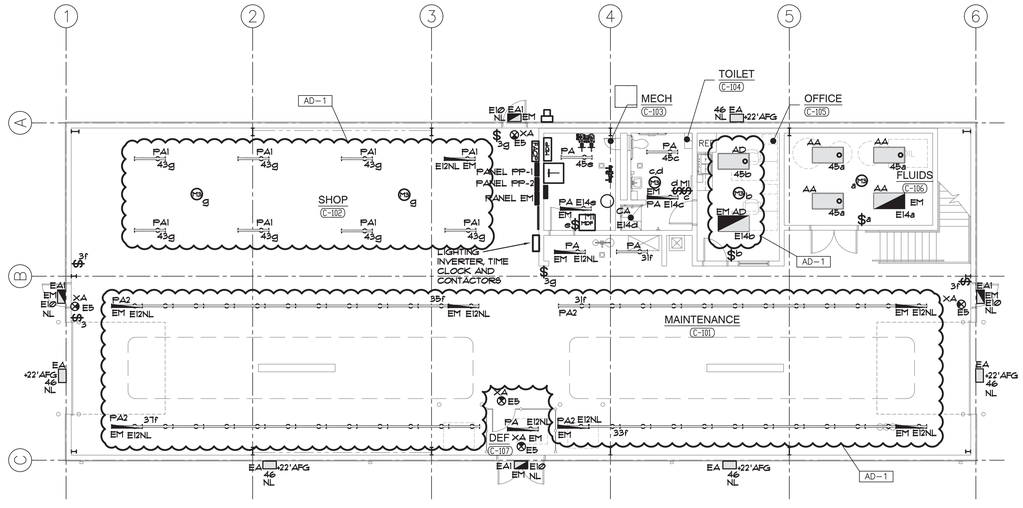
AD-4

3. EXTERIOR LIGHTING WITH AN 'E' PREFIX CIRCUIT TAG SHALL BE CONNECTED TO CIRCUIT INDICATED IN PANEL EM VIA TIME CLOCK, PHOTOCELL, CONTACTORS, AND LIGHTING INVERTER (OR INTEGRAL BATTERIES).



ELECTRICAL LIGHTING FLOOR PLAN
MECHANICS BUILDING
BUILDING C - ALTERNATE
SCALE: 1/8" = 1'-0"

NORTH



ELECTRICAL LIGHTING FLOOR PLAN
MECHANICS BUILDING
BUILDING C - BASE BID
SCALE: 1/8" = 1'-0"

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DRAWING
ELECTRICAL LIGHTING PLANS
MECHANICS BUILDING
BUILDING C

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

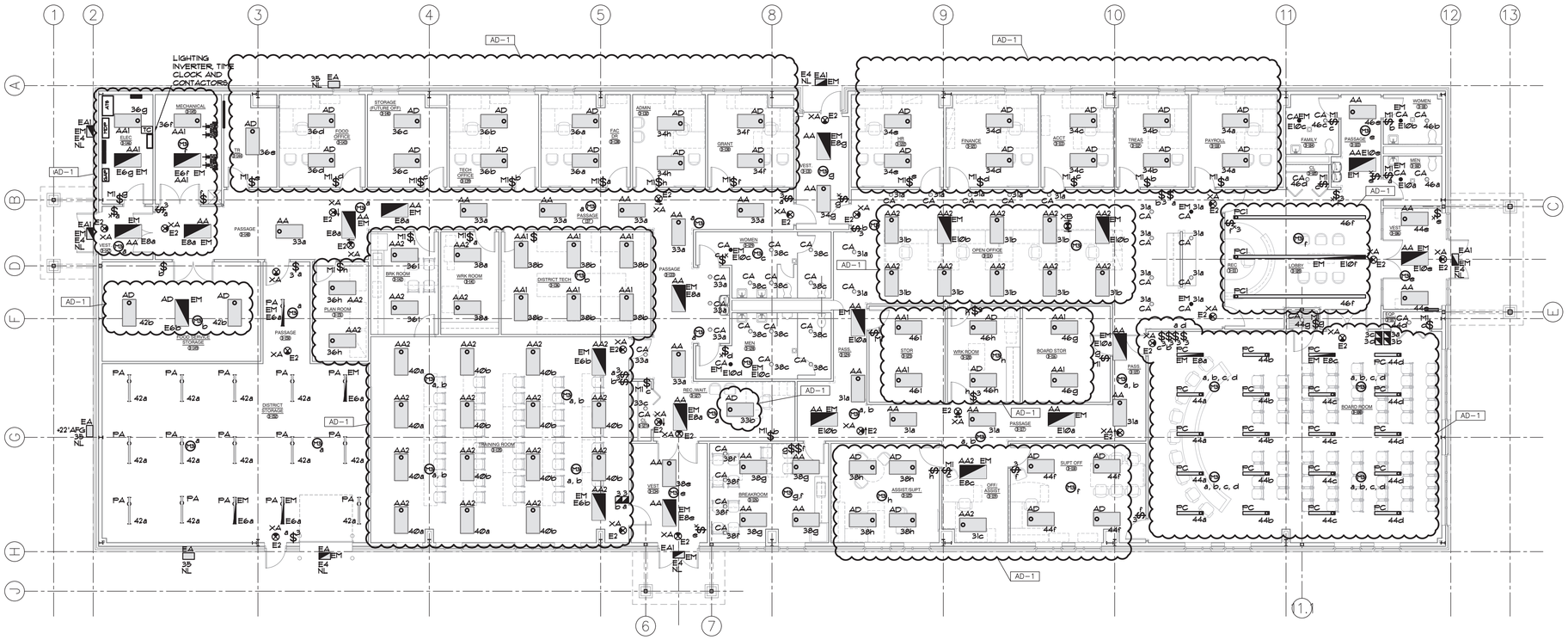
SHEET
EL103

GENERAL NOTES

1. INTERIOR LIGHTING SHALL BE CONNECTED TO CIRCUITS INDICATED IN PANEL PP-2 UNLESS NOTED OTHERWISE. INTERIOR LIGHTING CIRCUIT TAGS WITH AN 'E' PREFIX SHALL BE CIRCUITED TO CIRCUIT INDICATED IN PANEL EM. EMERGENCY FIXTURES WITH SWITCH TAG SHALL BE PROVIDED WITH CONSTANT HOT FEED AS REQUIRED.
2. EXTERIOR LIGHTING SHALL BE CONNECTED TO CIRCUITS INDICATED IN PANEL PP-2 VIA TIME CLOCK, PHOTOCELL AND CONTACTORS UNLESS NOTED OTHERWISE.

AD-4

3. EXTERIOR LIGHTING WITH AN 'E' PREFIX CIRCUIT TAG SHALL BE CONNECTED TO CIRCUIT INDICATED IN PANEL EM VIA TIME CLOCK, PHOTOCELL, CONTACTORS, AND LIGHTING INVERTER (OR INTEGRAL BATTERIES).



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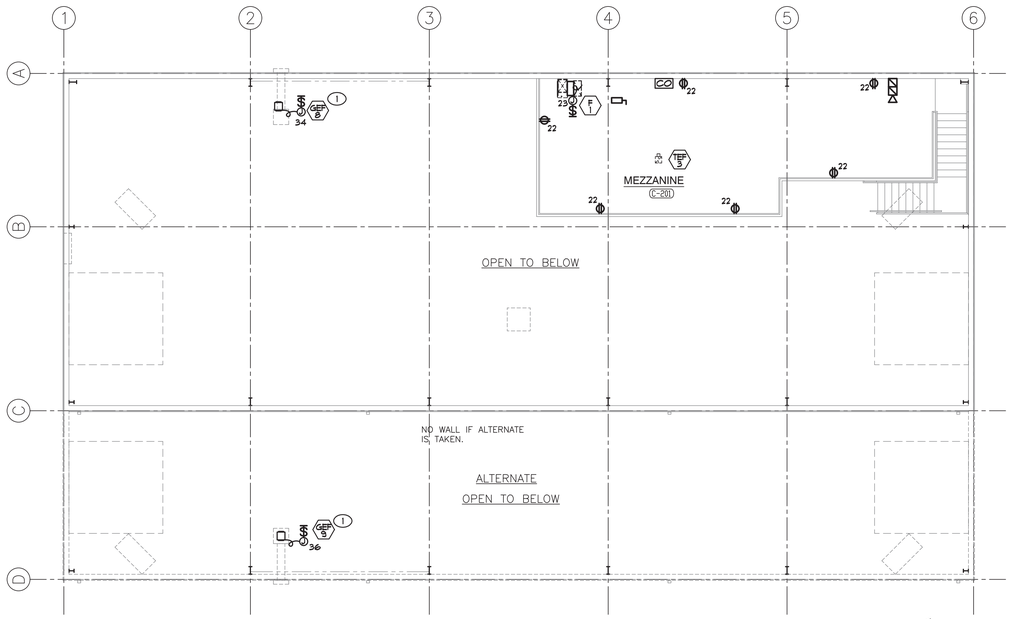
AD-4	06/10/21	ADDENDUM NO. 4

DRAWING
ELECTRICAL LIGHTING FLOOR PLAN
RESOURCE CENTER
BUILDING D

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
EL104



ELECTRICAL POWER MEZZANINE PLAN
MECHANICS BUILDING
BUILDING C
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

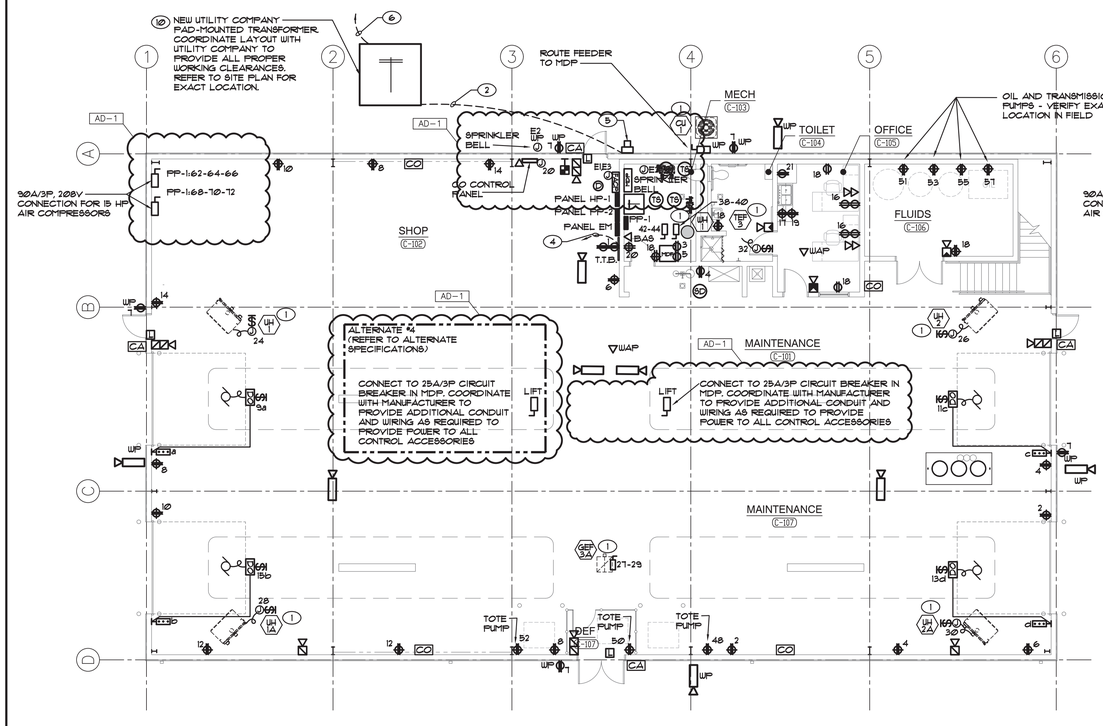
1. ALL DEVICES SHALL BE CIRCUITED TO CIRCUIT INDICATED IN PANEL PP-1, UNLESS OTHERWISE NOTED.
2. ALL DEVICES WITH AN 'E' PREFIX SHALL BE CIRCUITED TO PANEL EM.
3. CONTACT UTILITY COMPANY TO DETERMINE EXACT ELECTRICAL BOX LOCATION, AND ALL CONDUIT/WIRE SIZES AND ROUTING PRIOR TO CALCULATING FINAL WIRE LENGTHS AND ORDERING EQUIPMENT. VERIFY ALL LOCATIONS IN FIELD, COMPLETE AS REQUIRED.
4. FOR SITE LIGHTING AND BUILDING MOUNTED EXTERIOR LIGHTING CIRCUITS CALCULATE FINAL WIRE LENGTHS IN FIELD AND PROVIDE LARGER, PROPERLY SIZED WIRE TO COMPLY WITH NEC VOLTAGE DROP REQUIREMENTS PRIOR TO ROUGH-IN. COMPLETE AS REQUIRED.

AD-4

5. CONTRACTOR SHALL COORDINATE REQUIREMENTS FOR LIFTS AND SHOP EQUIPMENT WITH APPROVED FINAL EQUIPMENT SHOP DRAWINGS. PROVIDE ALL DISCONNECT SWITCHES, POWER CONNECTIONS, FEEDERS, CIRCUIT BREAKERS, ACCESSORIES, ETC. FOR A COMPLETE AND PROPER INSTALLATION.

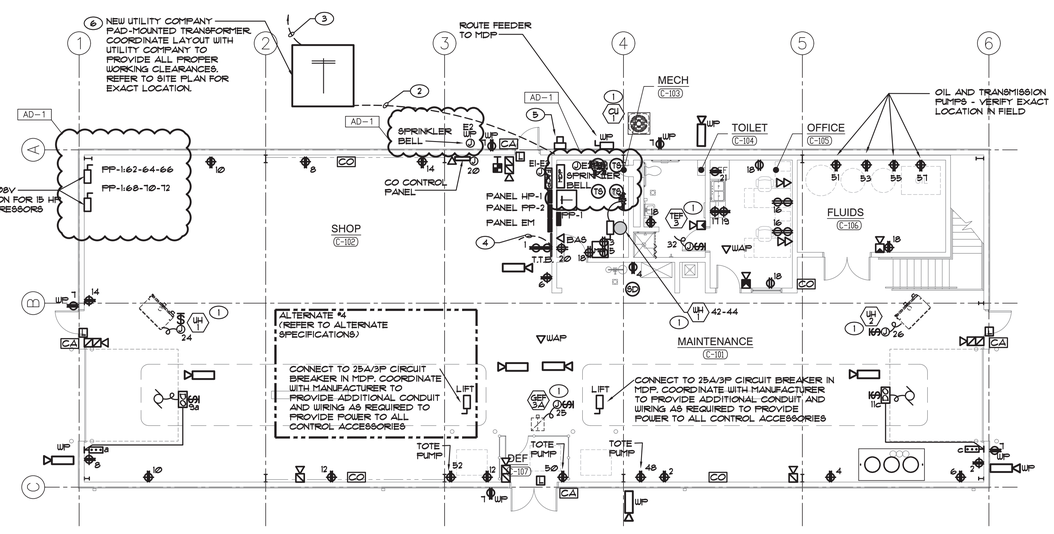
SHEET NOTES

1. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE AND ONE-LINE DIAGRAM FOR ADDITIONAL CIRCUITING AND WIRING INFORMATION.
2. MAIN SERVICE SECONDARY FEEDER. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
3. UTILITY PRIMARY FEED. COORDINATE WITH UTILITY COMPANY TO ROUTE CONDUIT, UNDERGROUND, TO UTILITY COMPANY ELECTRICAL BOX. VERIFY EXACT ROUTING, CONDUIT SIZE AND ELECTRICAL BOX LOCATION IN FIELD WITH UTILITY COMPANY. PROVIDE PULL BOX TO MATCH UTILITY COMPANY STANDARDS. AD-4
4. PROVIDE LOW VOLTAGE SERVICE ROUGH-IN CONDUIT. VERIFY REQUIREMENTS WITH LOW VOLTAGE TECHNOLOGY DRAWINGS.
5. APPROXIMATE LOCATION OF EXTERIOR MOUNTED UTILITY METER AND C/T CABINET FOR MAIN ELECTRICAL SERVICE. PROVIDE C/T CABINET AND UTILITY METER PER UTILITY COMPANY REQUIREMENTS. COORDINATE PROPER CLEARANCES, GROUNDING, MOUNTING, MOUNTING HEIGHT, LOCATION AND ANY ADDITIONAL REQUIREMENTS WITH UTILITY COMPANY STANDARDS PRIOR TO PROVIDING BID. VERIFY EXACT LOCATION IN FIELD WITH UTILITY COMPANY AND OWNER'S REPRESENTATIVE.
6. UTILITY COMPANY PAD MOUNTED TRANSFORMER. COORDINATE WITH ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL TRANSFORMER PAD PER UTILITY COMPANY STANDARDS AND SPECIFICATIONS, INCLUDING GROUNDING, PAD SIZE, CLEARANCES, ETC.



ELECTRICAL POWER FLOOR PLAN
MECHANICS BUILDING
BUILDING C - ALTERNATE #1
SCALE: 1/8" = 1'-0"

NORTH



ELECTRICAL POWER FLOOR PLAN
MECHANICS BUILDING
BUILDING C - BASE BID
SCALE: 1/8" = 1'-0"

NORTH

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DRAWING
ELECTRICAL POWER PLANS
MECHANICS BUILDING
BUILDING C

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

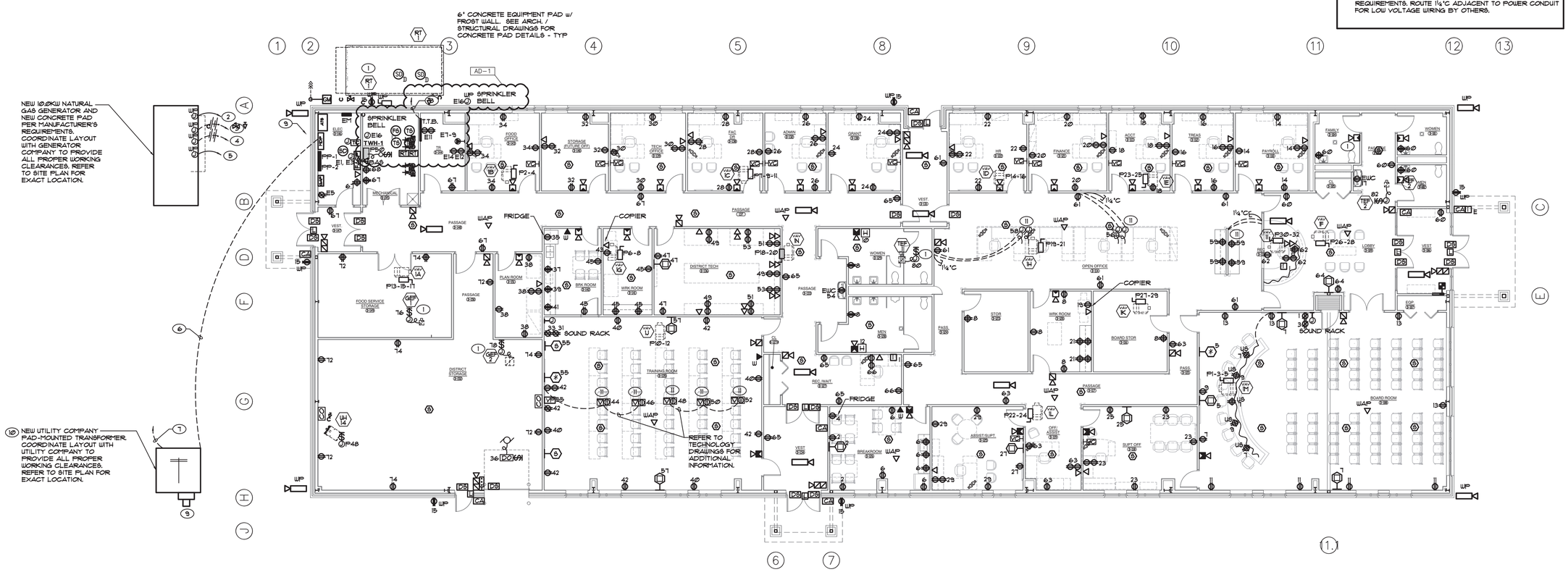
SHEET
EP103

GENERAL NOTES

1. ALL DEVICES SHALL BE CIRCUITED TO CIRCUIT INDICATED IN PANEL PP-1, UNLESS OTHERWISE NOTED. CIRCUIT TAGS WITH A 'P' PREFIX SHALL BE CONNECTED TO CIRCUITS INDICATED IN PANEL PP-2.
2. ALL DEVICES WITH AN 'E' PREFIX SHALL BE CIRCUITED TO PANEL EM.
3. CONTACT UTILITY COMPANY TO DETERMINE EXACT ELECTRICAL BOX LOCATION, AND ALL CONDUIT/WIRE SIZES AND ROUTING PRIOR TO CALCULATING FINAL WIRE LENGTHS AND ORDERING EQUIPMENT. VERIFY ALL LOCATIONS IN FIELD, COMPLETE AS REQUIRED.
4. FOR SITE LIGHTING AND BUILDING MOUNTED EXTERIOR LIGHTING CIRCUITS CALCULATE FINAL WIRE LENGTHS IN FIELD AND PROVIDE LARGER, PROPERLY SIZED WIRE TO COMPLY WITH NEC VOLTAGE DROP REQUIREMENTS PRIOR TO ROUGH-IN, COMPLETE AS REQUIRED.

SHEET NOTES

1. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE AND ONE-LINE DIAGRAM FOR ADDITIONAL CIRCUITING AND WIRING INFORMATION.
2. NEW FEEDER FROM GENERATOR TO ATS-EM, REFER TO ONE-LINE DIAGRAM AND GENERATOR WIRING SCHEMATIC FOR ADDITIONAL INFORMATION.
3. ROUTE 3 #2 & 1 #2 GRD. IN 1"C. FROM ENGINE BLOCK HEATER TO PANEL EM.
4. ROUTE 3 #2 & 1 #2 GRD. IN 1"C. FROM BATTERY CHARGER TO PANEL EM.
5. ROUTE ONE (1) 1"C. FROM GENERATOR TO ATS-EM FOR CONTROL WIRING.
6. MAIN SERVICE SECONDARY FEEDER, REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
7. UTILITY PRIMARY FEED. COORDINATE WITH UTILITY COMPANY TO ROUTE CONDUIT, UNDERGROUND, TO UTILITY COMPANY ELECTRICAL BOX. VERIFY EXACT ROUTING, CONDUIT SIZE AND ELECTRICAL BOX LOCATION IN FIELD WITH UTILITY COMPANY. PROVIDE PULL BOX TO MATCH UTILITY COMPANY STANDARDS. AD-4
8. PROVIDE LOW VOLTAGE SERVICE ROUGH-IN CONDUIT. VERIFY REQUIREMENTS WITH LOW VOLTAGE TECHNOLOGY DRAWINGS.
9. APPROXIMATE LOCATION OF EXTERIOR MOUNTED UTILITY METER FOR MAIN ELECTRICAL SERVICE. PROVIDE C/T AND UTILITY METER PER UTILITY COMPANY REQUIREMENTS. COORDINATE PROPER CLEARANCES, GROUNDING, MOUNTING, MOUNTING HEIGHT, LOCATION AND ANY ADDITIONAL REQUIREMENTS WITH UTILITY COMPANY STANDARDS PRIOR TO PROVIDING BID. VERIFY EXACT LOCATION IN FIELD WITH UTILITY COMPANY AND OWNER'S REPRESENTATIVE.
10. UTILITY COMPANY PAD MOUNTED TRANSFORMER. COORDINATE WITH ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL TRANSFORMER PAD PER UTILITY COMPANY STANDARDS AND SPECIFICATIONS, INCLUDING GROUNDING, PAD SIZE, CLEARANCES, ETC.
11. ROUTE CONDUIT, CONCEALED WITHIN FLOOR, FROM WALL TO FURNITURE LOCATIONS AND STUB UP INTO FLOOR BOX OR FURNITURE SYSTEM. EXTEND WIRING AND CONDUIT WITHIN FURNITURE SYSTEMS WITH FLEXIBLE CONDUIT. COORDINATE FURNITURE FEEDS WITH FURNITURE LOCATIONS AND REQUIREMENTS. ROUTE 1¼"C ADJACENT TO POWER CONDUIT FOR LOW VOLTAGE WIRING BY OTHERS.



ELECTRICAL POWER FLOOR PLAN
RESOURCE CENTER BUILDING D
SCALE: 1/8" = 1'-0"

NORTH

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PROJECT
20-141
DATE
05/17/21
COORDINATED BY
JC
DRAWN BY
RH/GL/LvB
CHECKED BY
DJ

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

REVISIONS

MARK	DATE	ISSUED FOR
AD-1	05/28/21	ADDENDUM NO. 1
AD-4	06/10/21	ADDENDUM NO. 4

DRAWING
ELECTRICAL POWER FLOOR PLAN
RESOURCE CENTER
BUILDING D

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

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SHEET
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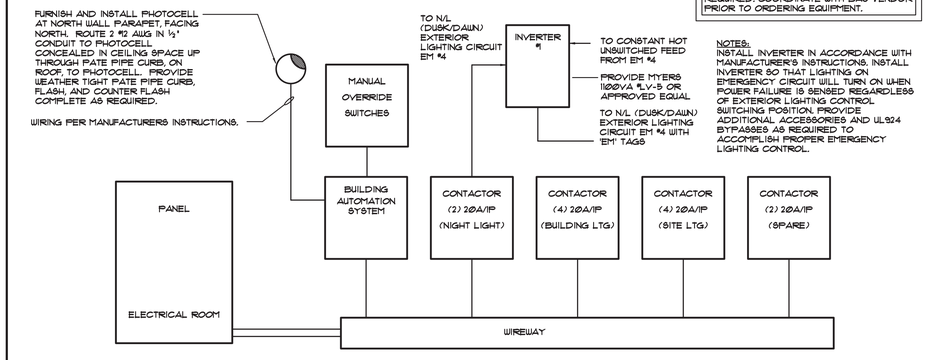
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK
HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

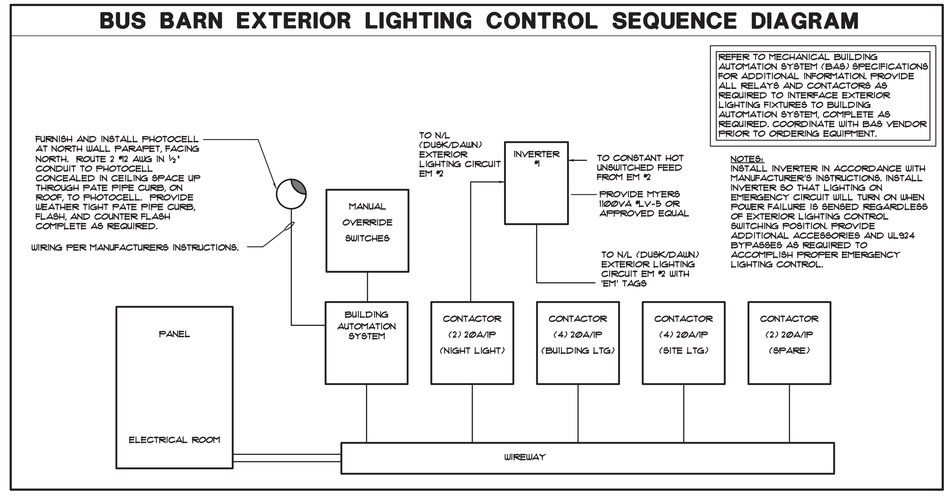
FIXTURE GENERAL NOTES

1. INTERIOR FIXTURES, EXTERIOR FIXTURES AND POLE FINISHES AND COLORS TO BE SELECTED BY ARCHITECT. THE ARCHITECT MAY, AT THEIR DISCRETION, CHOOSE A CUSTOM COLOR AT NO ADDITIONAL CHARGE.
2. PENDANT FIXTURES SPECIFIED ON THIS PROJECT SHALL BE CAREFULLY COORDINATED WITH CONTRACT DOCUMENTS AND FIXTURE MANUFACTURER AS EACH PENDANT FIXTURE IS A CUSTOM MANUFACTURED FIXTURE. PROVIDE PENDANT EMERGENCY SECTIONS AND EMERGENCY CIRCUITS AS SHOWN. COORDINATE WITH FIXTURE MANUFACTURER AND PROVIDE ADDITIONAL ACCESSORIES FOR A COMPLETE AND PROPER INSTALLATION. PROVIDE PROPER FIXTURE LENGTH, FEEDS, SINGLE AND DUAL CIRCUITING AND SUSPENSION LENGTH AS SHOWN ON DRAWINGS. PROVIDE FABRICATION DRAWINGS FOR REVIEW AS PART OF THE SHOP DRAWING SUBMITTAL PROCESS.
3. LED FIXTURES (LESS THAN 10000 LUMENS) SHALL BE PROVIDED WITH FACTORY INSTALLED INTEGRAL EMERGENCY BATTERY UNITS BATTERY UNITS SHALL PROVIDE A MINIMUM OF 1400 LUMENS.
4. FIXTURES THAT CANNOT BE PROVIDED WITH EMERGENCY BALLASTS OR FIXTURES WITH GREATER THAN 10000 LUMENS SHALL BE PROVIDED WITH EMERGENCY INVERTER (MYERS ®LV SERIES OR APPROVED EQUAL) WITH SUITABLE CAPACITY TO POWER FIXTURE FOR A MINIMUM OF 90 MINUTES PER CODE. VERIFY SIZING AND REQUIREMENTS WITH CONTRACT DOCUMENTS PRIOR TO ORDERING.
5. SHADED FIXTURES SHALL HAVE AN EMERGENCY SOURCE OF POWER AS SPECIFIED.
6. EXTERIOR LIGHTING POLES SHALL BE PROVIDED WITH STRAIGHT SQUARE STEEL POLES WITH CAST BASE COVERS AND VIBRATION DAMPENERS. THE POLES SHALL BE SIZED PROPERLY TO SUPPORT FIXTURE WEIGHT AT 100 MPH WIND WITH A 1.3 GUST FACTOR. MINIMUM POLE SIZE TO BE 5" SQUARE. PROVIDE ADDITIONAL MOUNTING ACCESSORIES AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION.
7. FOR EXTERIOR POLE MOUNTED LIGHTING, PROVIDE FACTORY MOUNTED HOUSE SIDE SHIELDS INTEGRAL TO THE FIXTURE AS SPECIFIED. ADDITIONALLY, PROVIDE CUSTOM FABRICATED POLE MOUNTED HOUSE SIDE SHIELDING AS REQUIRED TO CONTROL LIGHT TRESPASS AND COMPLY WITH LOCAL REQUIREMENTS.
8. FIXTURES WITH EMERGENCY BATTERIES SHALL BE PROVIDED WITH CONSTANT HOT SENSING WIRE SO THAT FIXTURE CAN BE SWITCHED ON AND OFF WITHOUT ACTIVATING EMERGENCY BALLAST. UPON LOSS OF POWER, THE FIXTURE SHALL BE ILLUMINATED FOR A MINIMUM OF 90 MINUTES REGARDLESS OF THE LIGHT SWITCH POSITION. PROVIDE TEST SWITCH AND CHARGING INDICATOR FOR EMERGENCY BATTERY AS SPECIFIED.
9. CAREFULLY COORDINATE MOUNTING REQUIREMENTS FOR FIXTURES WITH CONTRACT DOCUMENTS AND FIXTURE MANUFACTURER. PROVIDE APPROPRIATE MOUNTING FRAMES FOR LAY-IN OR GYPSUM CEILINGS. VERIFY CEILING REQUIREMENTS WITH FINAL ARCHITECTURAL REFLECTED CEILING PLAN.
10. VERIFY FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
11. PROVIDE CUSTOM ANTI-SWAY BRACING FOR PENDANT TO ELIMINATE PENDANT MOVEMENT DUE TO AIR MOVEMENT OR ENVIRONMENTAL CAUSES.
12. COORDINATE LOCATIONS OF INTERIOR AND EXTERIOR LIGHTING FIXTURES WITH FINAL ARCHITECTURAL DRAWINGS. FIXTURES THAT ARE NOT INSTALLED IN THE CORRECT LOCATION SHALL BE RELOCATED AND REINSTALLED IN THE CORRECT LOCATION AT NO ADDITIONAL CHARGE.
13. FIXTURES SHALL BE CAREFULLY COORDINATED WITH MANUFACTURER TO DELIVER THE SPECIFIED PRODUCT IN SUFFICIENT TIME TO MEET PROJECT DEADLINES. EQUIPMENT DELIVERY LEAD TIME SHALL NOT BE HELD AS A VALID REASON FOR REQUESTING LUMINAIRE SUBSTITUTION UNLESS LUMINAIRE LEAD TIME FROM SPECIFIED MANUFACTURER IS IN EXCESS OF 14 WEEKS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DETERMINE NECESSARY EQUIPMENT LEAD TIMES, DELIVER SUBMITTALS FOR REVIEW IN A TIMELY FASHION, AND PLACE ORDERS ACCORDINGLY TO ENSURE TIMELY DELIVERY.
14. EVALUATION OF APPROVED EQUALS SHALL BE AT THE SOLE DISCRETION OF THE ARCHITECT AND ENGINEER. IF THE PRODUCT SUBMITTED DURING THE REVIEW PROCESS IS NOT JUDGED AS AN EQUAL BY THE REVIEWING ENGINEER, THE CONTRACTOR SHALL PROVIDE THE PRODUCT SPECIFIED.
15. CAREFULLY COORDINATE VOLTAGES OF FIXTURES PRIOR TO ORDERING FIXTURES.
16. APPROVED EQUALS WILL BE CONSIDERED FROM THE FOLLOWING VENDORS: KSA LIGHTING (630.307.6955), FORCE CHICAGO (312.986.1515) OR PG ENLIGHTEN (847.228.1199).
17. CAREFULLY VERIFY COLOR TEMPERATURE OF FIXTURES WITH ARCHITECT PRIOR TO ORDERING.

ADMIN BLDG EXTERIOR LIGHTING CONTROL SEQUENCE DIAGRAM



BUS BARN EXTERIOR LIGHTING CONTROL SEQUENCE DIAGRAM



INTERIOR LIGHTING LUMINAIRE SCHEDULE

TAG	SYMBOL	DESCRIPTION	MANUFACTURER SERIES OR CATALOG NUMBER	VOLTAGE/ BALLAST	LAMPS/CROSS SECTION	MOUNTING	REMARKS
AA		2' X 4' LED DIRECT/INDIRECT FIXTURE	LITHONIA ®VTL4-40L-ADP-EZI-LP840 COLUMBIA ®LCAT24-40LW-G-EDI-U METALUX ®24CZ2-40-UNV-L840-CDI-U	277 VOLT 0-10V DIM - -	LED 4000K MAX 32 W MIN 4000 LM	RECESSED LAY-IN	- - - -
AA1		2' X 4' LED DIRECT/INDIRECT FIXTURE	LITHONIA ®VTL4-48L-ADP-EZI-LP840 COLUMBIA ®LCAT24-40ML-G-EDI-U METALUX ®24CZ2-50-UNV-L840-CDI-U	277 VOLT 0-10V DIM - -	LED 4000K MAX 38 W MIN 4800 LM	RECESSED LAY-IN	- - - -
AA2		2' X 4' LED DIRECT/INDIRECT FIXTURE	LITHONIA ®VTL4-60L-ADP-EZI-LP840 COLUMBIA ®LCAT24-40HL-G-EDI-U METALUX ®24CZ2-60-UNV-L840-CDI-U	277 VOLT 0-10V DIM - -	LED 4000K MAX 48 W MIN 6000 LM	RECESSED LAY-IN	- - - -
AB		2' X 2' LED DIRECT/INDIRECT FIXTURE	LITHONIA ®VTL2-48L-ADP-EZI-LP840 COLUMBIA ®LCAT22-40LV-G-EDI-U METALUX ®22CZ2-50-UNV-L840-CDI-U	277 VOLT 0-10V DIM - -	LED 4000K MAX 38 W MIN 4800 LM	RECESSED LAY-IN	- - - -
AC		2' X 4' LED KITCHEN FIXTURE	LITHONIA ®2GTL4-60L-EZI-LP840 COLUMBIA ®LJT24-40HLG-RSA12-EU METALUX ®2AGRLED-LD5-64-FI-UNV-L840-CDI-U	277 VOLT 0-10V DIM -	LED 4000K MAX 48 W MIN 6000 LM	RECESSED LAY-IN	- - -
AD		2' X 4' LED DIRECT/INDIRECT FIXTURE	LITHONIA ®VTL4-85L-ADP-EZI-LP840 OR APPROVED EQUAL BY COLUMBIA OR METALUX	120/277 VOLT 0-10V DIM - -	LED 4000K MAX 68 W MIN 8500 LM	RECESSED LAY-IN	- - - -
CA	○	LED 6" DOWNLIGHT WITH TRIM FINISH TO BE SELECTED BY ARCHITECT	LITHONIA ®LDN6-35-I5-L06-XX-L86-MVOLT-EZI LITEISTRY ®LTR-6RD-H-8L18L-DMI-LTR-6RD-T-8L-40K8-MD-8/B24 HALO ®HC6ISD2010 / HM6IRB40 / 6JMDHWF	120/277 VOLT 0-10V DIM -	LED 4000K MAX 18 W MIN 1800 LM	RECESSED GRID/GYPSUM MOUNTED	-VERIFY TRIM FINISH WITH ARCHITECT
PA		4', LED INDUSTRIAL FIXTURE WITH WIREGUARD AND SAFETY CHAINS	LITHONIA ®CLX-L48-5000LM-SEF-RDL-MVOLT-EZI-40K-80CRI COLUMBIA ®IP84-40HL-C-W-EDI-U/IP85WG4/CSHC METALUX ®6SNLED-LD5-8LW-528L-UNV-L840-CDI-U/4S-9NF-4FT/AYC-CHAINSET	277 VOLT 0-10V DIM -	LED 4000 K MIN 5000 LM MAX 36 W	SUSPENDED @13'-0" AFF	-COORD LOCATIONS WITH DUCTWORK & PIPING
PA1		4', LED INDUSTRIAL FIXTURE WITH WIREGUARD AND SAFETY CHAINS	LITHONIA ®CLX-L48-10000LM-SEF-RDL-MVOLT-EZI-40K-80CRI OR APPROVED EQUAL BY COLUMBIA OR METALUX	120/277 VOLT 0-10V DIM -	LED 4000 K MIN 10000 LM MAX 74 W	SUSPENDED CHAIN	-COORD LOCATIONS WITH DUCTWORK & PIPING
PA2		4', LED INDUSTRIAL FIXTURE WITH WIREGUARD AND SAFETY CHAINS	LITHONIA ®CLX-L48-10000LM-SEF-RDL-MVOLT-EZI-40K-80CRI OR APPROVED EQUAL BY COLUMBIA OR METALUX	120/277 VOLT 0-10V DIM -	LED 4000 K MIN 10000 LM MAX 120 W	SUSPENDED CHAIN	-COORD LOCATIONS WITH DUCTWORK & PIPING
PB		HIGH PRESSURE WET LOCATION SPECIAL ENVIRONMENT FIXTURE FOR BUS WASH AREA	LITHONIA ®LHF-L24-8000LM-ACL-MD-MVOLT-GZ10-35K-80CRI-XX-XX OR APPROVED EQUAL	MVOLT			
PC		LED 4' CONTINUOUS DIRECT/INDIRECT PENDANT FIXTURE	AXIS LIGHTING ®TB4DILED-400-1000-80-40-80-80-XX-XX-UNV-DP-I-XX OR APPROVED EQUAL BY NULITE OR LUMENIERX	277 VOLT 0-10V DIM - -	LED 4000 K MIN 1400LM MAX 12W/ft	SUSPENDED @9'-0" AFF.	-VERIFY FINISH WITH ARCHITECT. -COORDINATE RUN LENGTHS WITH DRAWINGS
PC1		LED 4' CONTINUOUS DIRECT/INDIRECT PENDANT FIXTURE	AXIS LIGHTING ®TB4ILED-800-0-80-40-80-80-XX-XX-UNV-DP-I-XX OR APPROVED EQUAL BY NULITE OR LUMENIERX	277 VOLT 0-10V DIM - -	LED 4000 K MIN 800LM MAX 32W/ft	SUSPENDED @9'-0" AFF.	-VERIFY FINISH WITH ARCHITECT. -COORDINATE RUN LENGTHS WITH DRAWINGS
PD		LED HIGH BAY FIXTURE	LITHONIA ®IBE-L48-22000LM-ATC-MD-MVOLT-GZ10-40K-80CRI-WGX-X-X OR APPROVED EQUAL BY METALUX OR COLUMBIA	120/277 VOLT	LED 4000 K MIN 22000LM MAX 165W	PENDANT MOUNTED	-PROVIDE WIRE GUARD PROTECTION -PROVIDE RIGID MOUNTING -
XA		SINGLE FACE EXIT 6" GREEN LETTERS CAST ALUM BODY, AC ONLY	LITHONIA ®LE SERIES DUAL LITE ®EDG SERIES SURE LITES ®CX6-I-G	120/277 VOLT	LED MAX 5W	CEILING/ WALL	-FINISH WITH ARROWS AS REQ'D BY CODE -PROVIDE WIREGUARD WHERE INDICATED ON PLANS
XB		DOUBLE FACE EXIT 6" GREEN LETTERS CAST ALUM BODY, AC ONLY	LITHONIA LE SERIES DUAL LITE ®EDG SERIES SURE LITES ®EL SERIES	120/277 VOLT	LED. MAX 5W	CEILING/ WALL	-FINISH WITH ARROWS AS REQ'D BY CODE -PROVIDE WIREGUARD WHERE INDICATED ON PLANS
NL		CONSTANT HOT, UNSWITCHED NIGHT LIGHT FIXTURE					
EM		FIXTURE ON EMERGENCY CIRCUIT WITH 90 MINUTE, HIGH OUTPUT (MIN 1400LM) BATTERY UNIT OR INVERTER	FIXTURES LESS THAN 10000 LM: BODINE FACTORY INSTALLED BATTERY OR, AT CONTRACTOR'S DISCRETION, MYERS LV SERIES INVERTER (SIZE AND QUANTITY AS REQUIRED) FIXTURES GREATER THAN 10000LM: MYERS LV SERIES INVERTER (SIZE AND QUANTITY AS REQUIRED)	120/277 VOLT	-	IN FIXTURE/ REMOTE	-PROVIDE TEST SWITCH AND CHARGING INDICATOR -INTEGRAL BATTERIES NOT ALLOWED IN FIXTURES WITH GREATER THAN 10000 LUMENS

EXTERIOR LIGHTING LUMINAIRE SCHEDULE

TAG	SYMBOL	DESCRIPTION	MANUFACTURER SERIES OR CATALOG NUMBER	VOLTAGE/ BALLAST	LAMPS/CROSS SECTION	MOUNTING	REMARKS
EA		EXTERIOR LED WALLPACK	LITHONIA ®TWU-LED-P1-SR3-40K-MVOLT HUBBELL ®QSP1-12L20-4K7-3-UNV-XX MCGRAW EDISON ®S6 SERIES	MVOLT - -	LED 2244 LM 20 W 4000K	WALL MTD 10'-0" AFG OR AS NOTED ON DWGS.	-
EA1		EXTERIOR LED WALLPACK	LITHONIA ®TWU-LED-P3-SR3-40K-MVOLT HUBBELL ®QSP2-24L50-4K7-4-UNV-XX MCGRAW EDISON ®S6 SERIES	MVOLT - -	LED 4486 LM 40 W 4000K	WALL MTD 10'-0" AFG OR AS NOTED ON DWGS.	-
EA2		EXTERIOR LED WALLPACK	LITHONIA ®TWU-LED-P4-SR4-40K-MVOLT HUBBELL ®QSP2-24L70-4K7-4-UNV-XX MCGRAW EDISON ®S6 SERIES	MVOLT - -	LED 5991 LM 61 W 4000K	WALL MTD 9'-0" AFG	-
EB		EXTERIOR LED FIXTURE MOUNTED ON A STRAIGHT, ROUND 30' ALUMINUM POLE	LITHONIA ®OMERO MR2-LED-60C-1000-40K-T3M KIM ®JR2B-96L-1T0-4K7-3-480-A34-XX/RSA30 MCGRAW EDISON ®TOP TIER POST TOP	MVOLT (480V) -	LED 21418 LM 206 W 4000K	POLE MTD 30'-0" AFG -	-
EB1		EXTERIOR LED FIXTURE MOUNTED ON A STRAIGHT, ROUND 30' ALUMINUM POLE	LITHONIA ®OMERO MR2-LED-60C-1000-40K-T5M KIM ®JR2B-96L-1T0-4K7-5-480-A34-XX/RSA30 MCGRAW EDISON ®TOP TIER POST TOP	MVOLT (480V) -	LED 21641 LM 206 W 4000K	POLE MTD 30'-0" AFG -	-
EB2		EXTERIOR LED FIXTURE MOUNTED ON A STRAIGHT, ROUND 30' ALUMINUM POLE	LITHONIA ®OMERO MR2-LED-60C-1000-40K-T4M KIM ®JR2B-96L-1T0-4K7-4-480-A34-XX/RSA30 MCGRAW EDISON ®TOP TIER POST TOP	MVOLT (480V) -	LED 21282 LM 206 W 4000K	POLE MTD 30'-0" AFG -	-
EB3		EXTERIOR LED FIXTURE MOUNTED ON A STRAIGHT, ROUND 30' ALUMINUM POLE	LITHONIA ®OMERO-MR2-LED-60C-1000-40K-T4M1-HS KIM ®JR2B-96L-1T0-4K7-4-480-A34-XX/RSA30 MCGRAW EDISON ®TOP TIER POST TOP	MVOLT (480V) -	LED 21282 LM 206 W 4000K	POLE MTD 30'-0" AFG -	-
EB4		EXTERIOR LED FIXTURE MOUNTED ON A STRAIGHT, ROUND 30' ALUMINUM POLE	LITHONIA ®OMERO MR2-LED-60C-1000-40K-T2M KIM ®JR2B-96L-1T0-4K7-2-480-A34-XX/RSA30 MCGRAW EDISON ®TOP TIER POST TOP	MVOLT (480V) -	LED 20724 LM 206 W 4000K	POLE MTD 30'-0" AFG -	-
EC		EXTERIOR LED FIXTURE MOUNTED ON A STRAIGHT, ROUND 15' ALUMINUM POLE	LITHONIA ®OMERO-MRP-LED-42C-530-40K-SR3-MVOLT KIM ®JR20-28L-1T0-4K7-3-UNV-FM33-XX/RSA15 INVUE ®IES A LED	MVOLT (480V) -	LED 6581 LM 75 W 4000K	POLE MTD 15'-0" AFG -	-
EC1		EXTERIOR LED FIXTURE MOUNTED ON A STRAIGHT, ROUND 15' ALUMINUM POLE	LITHONIA ®OMERO-MRP-LED-42C-530-40K-SR2-MVOLT KIM ®JR20-28L-1T0-4K7-2-UNV-FM33-XX/RSA15 INVUE ®IES A LED	MVOLT (480V) -	LED 6605 LM 75 W 4000K	POLE MTD 15'-0" AFG -	-
ED	○	LED 6" DOWNLIGHT WITH TRIM FINISH TO BE SELECTED BY ARCHITECT	LITHONIA ®LDN6-35-I5-L06-XX-L86-MVOLT-EZI LITEISTRY ®LTR-6RD-H-8L18L-DMI-LTR-6RD-T-8L-40K8-MD-8 HALO ®HC6ISD2010 / HM6IRB40 / 6JMDHWF	120/277 VOLT 0-10V DIM - -	LED 4000K MAX 18 W MIN 1800 LM	RECESSED CANOPY MOUNTED	-VERIFY TRIM FINISH WITH ARCHITECT
EE		FLAGPOLE FLOOD LIGHT WITH FULL SHIELD	LITHONIA ®DSXF3-LED-6-FP1-40K-N9P-MVOLT-XX-XX -FV-VG-XX OR APPROVED EQUAL	MVOLT - -	LED 4000K, MIN 11816LM MAX 167W	MTD ON CONCRETE PAD	-STANDARD COLOR TO BE SELECTED BY ARCHITECT -PROVIDE MTG ACCESS AS REQUIRED

AD-4

AD-1

AD-1

AD-1

AD-1

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PROJECT
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HANOVER COMMUNITY SCHOOL CORPORATION
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PROJECT 20-141
DATE 05/17/21
COORDINATED BY JC
DRAWN BY RH/GL/LvB
CHECKED BY DJ

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

REVISIONS

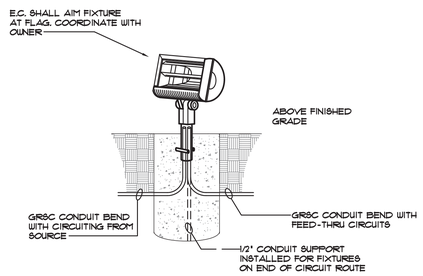
MARK	DATE	ISSUED FOR
AD-1	05/28/21	ADDENDUM NO. 1
AD-4	06/10/21	ADDENDUM NO. 4

DRAWING
ELECTRICAL DETAILS & DIAGRAMS

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
E-502

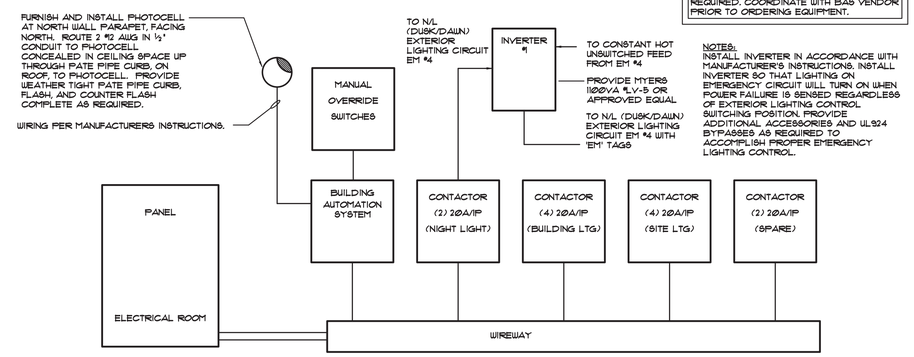
FLOODLIGHT "EE" INSTALLATION DETAIL



AD-4

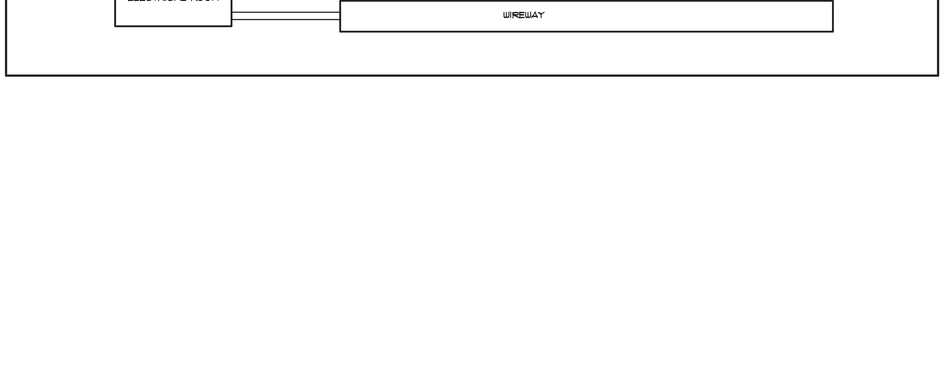
MECHANICS EXTERIOR LIGHTING CONTROL SEQUENCE DIAGRAM

REFER TO MECHANICAL BUILDING AUTOMATION SYSTEM (BAS) SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE ALL RELAYS AND CONTACTORS AS REQUIRED TO INTERFACE EXTERIOR LIGHTING FIXTURES TO BUILDING AUTOMATION SYSTEM, COMPLETE AS REQUIRED. COORDINATE WITH BAS VENDOR PRIOR TO ORDERING EQUIPMENT.



MAINTENANCE EXTERIOR LIGHTING CONTROL SEQUENCE DIAGRAM

REFER TO MECHANICAL BUILDING AUTOMATION SYSTEM (BAS) SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE ALL RELAYS AND CONTACTORS AS REQUIRED TO INTERFACE EXTERIOR LIGHTING FIXTURES TO BUILDING AUTOMATION SYSTEM, COMPLETE AS REQUIRED. COORDINATE WITH BAS VENDOR PRIOR TO ORDERING EQUIPMENT.



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PROJECT 20-141
DATE 05/17/21
COORDINATED BY JC
DRAWN BY RH/GL/LvB
CHECKED BY DJ

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

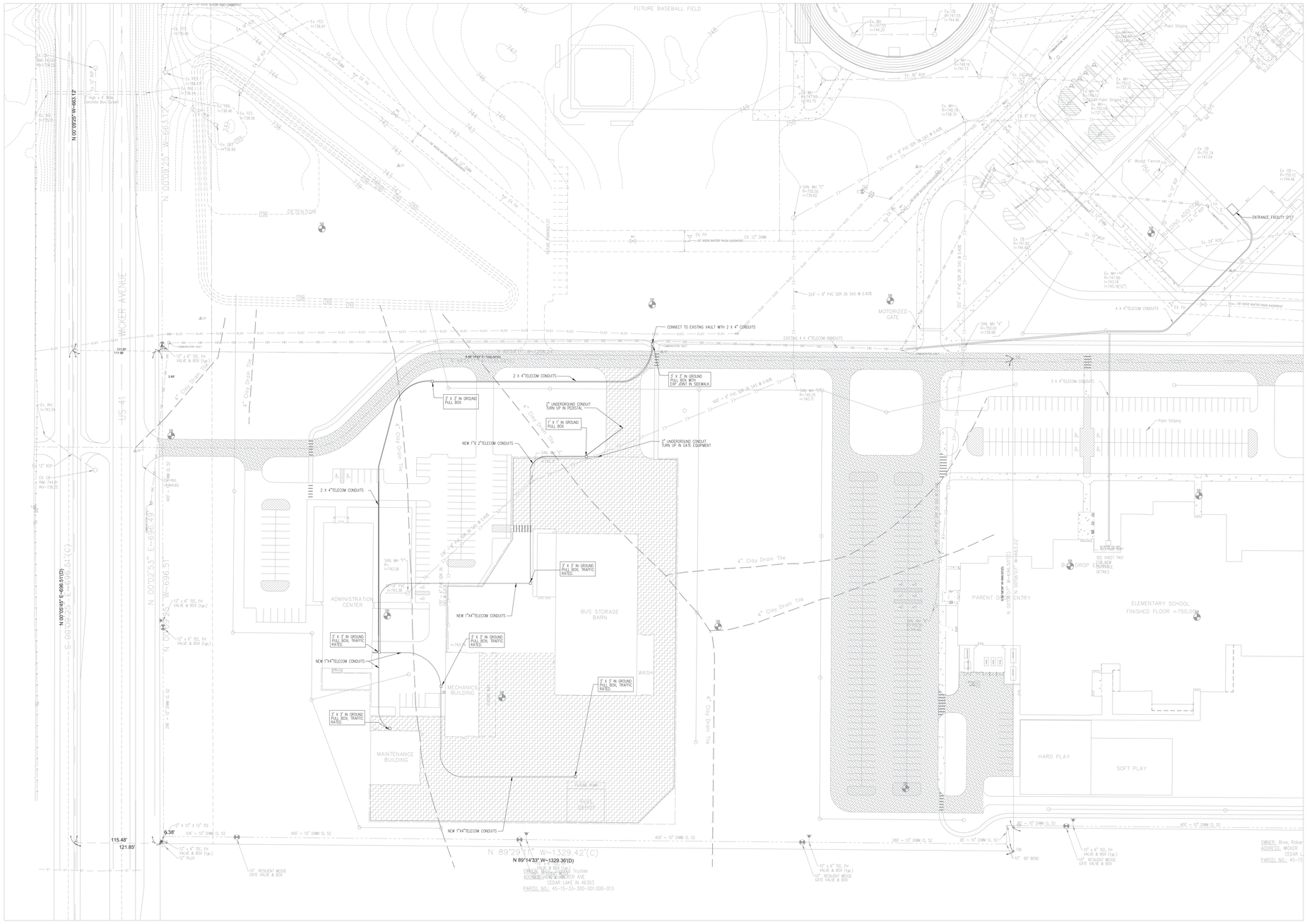
REVISIONS

MARK	DATE	ISSUED FOR
AD-4	06/10/21	ADDENDUM NO. 4

DRAWING
ELECTRICAL DIAGRAMS

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
E-505



LEGEND:

PROPOSED

- TYPICAL ASPHALT
- HEAVY DUTY ASPHALT
- CONCRETE PAVEMENT
- ASPHALT SIDEWALK
- CONCRETE SIDEWALK
- BARRIER CURB

AD-4 — ENTIRE SHEET REVISED IN THIS ADDENDUM

NORTH
NOT TO SCALE

TECHNOLOGY DYNAMICS
16414 ALLISONVILLE RD., SUITE 216
FISHERS, IN 46038
317.524.6338
www.techdyn.net

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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 20-141
DATE 05/17/21
COORDINATED BY BKS
DRAWN BY TP
CHECKED BY BKS

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
BICSI
Brian K Scott
BICSI ID#114038
EXPIRES 12-31-21

REVISIONS

MARK	DATE	ISSUED FOR
AD-4	6/10/21	ADDENDUM 4

DRAWING
TELECOMMUNICATIONS SITE PLAN

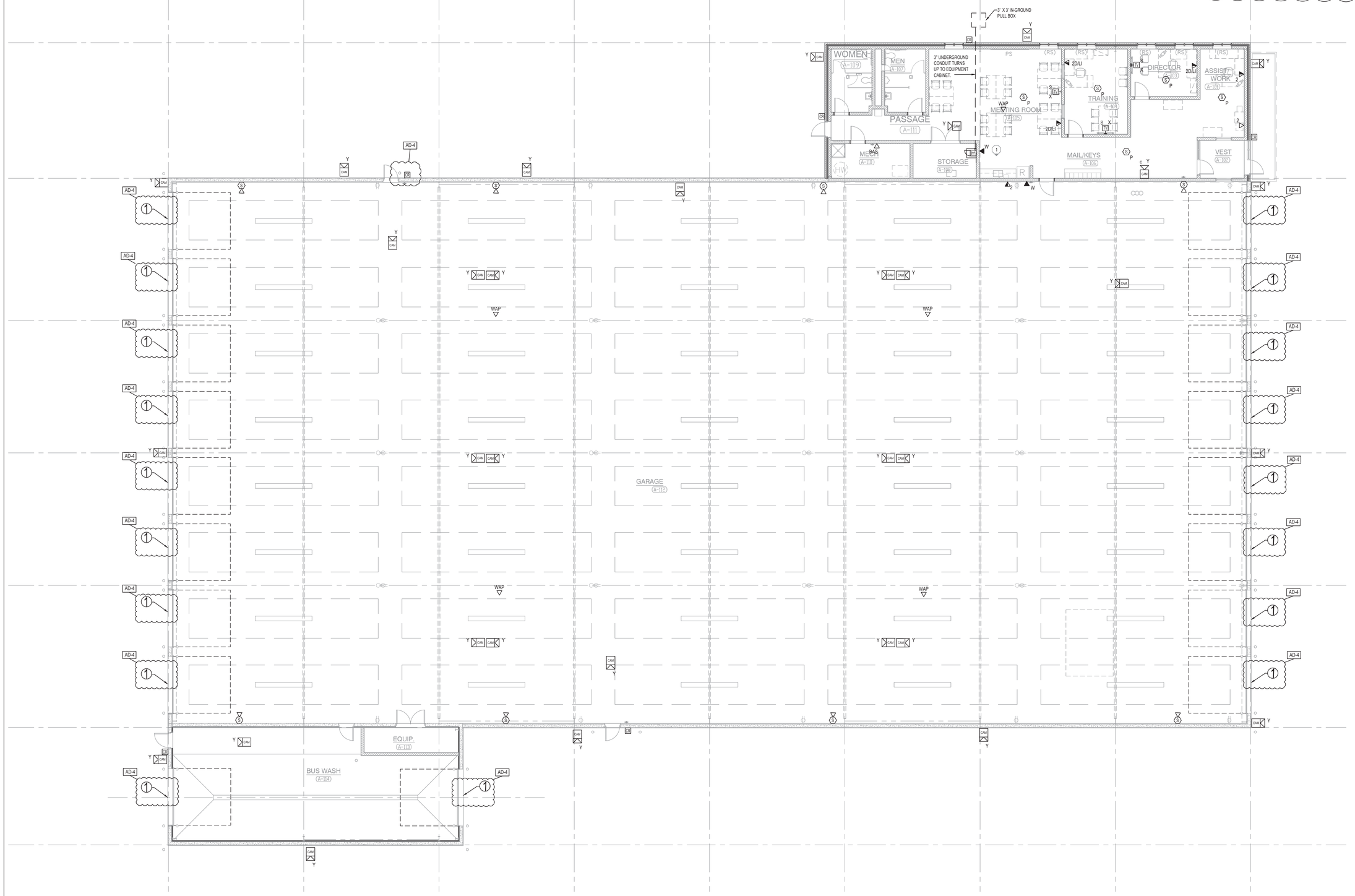
PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
TS-001

AD-4

PLAN NOTES:

1. OVERHEAD DOOR WITH CONTROLLER. SEE DETAIL 1/T781. BUS CONDUIT BETWEEN DOORS AND CONTINUING TO STORAGE ROOM TELECOM BACKBOARD SHALL BE A MINIMUM OF 2" TRADE SIZE CONDUIT.



1 TELECOMMUNICATIONS BUS GARAGE BUILDING A PLAN

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

NORTH

TECHNOLOGY DYNAMICS
10412 ALLISONVILLE RD., SUITE 216
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PROJECT

HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

FIRST FLOOR KEY PLAN

GIBRALTAR DESIGN
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PROJECT 20-141
DATE 05/17/21
COORDINATED BY BKS
DRAWN BY CN
CHECKED BY BKS

BICSI RCDD Brian K Scott BICSI ID # 114038 Expires 12-31-21

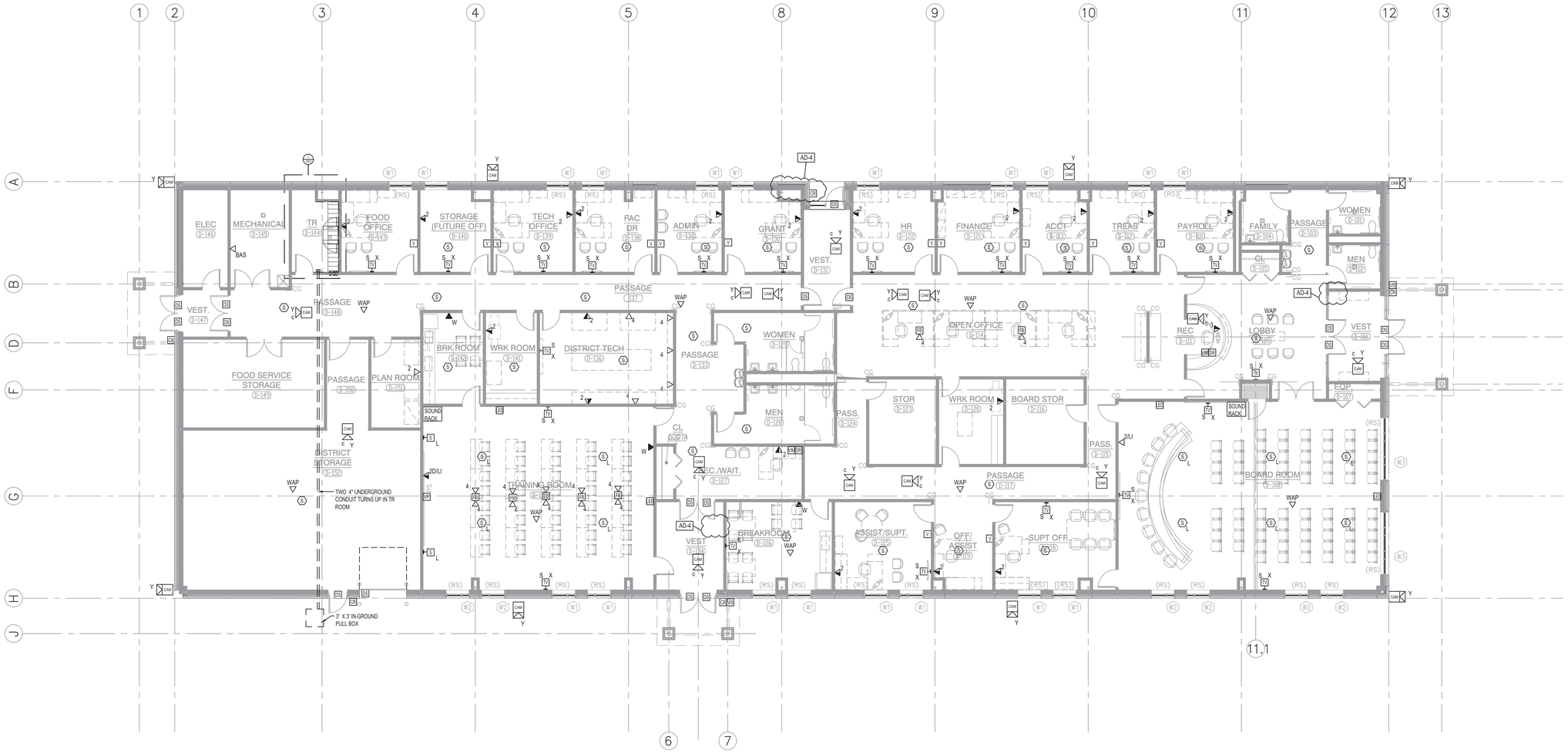
REVISIONS

MARK	DATE	ISSUED FOR
AD-4	6/10/21	ADDENDUM 4

DRAWING
TELECOMMUNICATIONS BUS GARAGE BUILDING A PLAN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
A
T101



1 TELECOMMUNICATIONS RESOURCE CENTER BUILDING D PLAN

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

NORTH

TECHNOLOGY DYNAMICS
16412 ALLISONVILLE RD., SUITE 216
FISHERS, IN 46038
317.524.6338
www.techdyn.net

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

FIRST FLOOR KEY PLAN

GIBRALTAR DESIGN
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DRAWN BY CN
CHECKED BY BKS

BICSI REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Brian K Scott
BICSI ID # 114038
EXPIRES 12-31-21

REVISIONS

MARK	DATE	ISSUED FOR
AD-4	6/10/21	ADDENDUM 4

DRAWING
TELECOMMUNICATIONS RESOURCE CENTER BUILDING D PLAN

PROJECT
HANOVER CSC NEW RESOURCE CENTER AND RELATED WORK

SHEET
D
T104