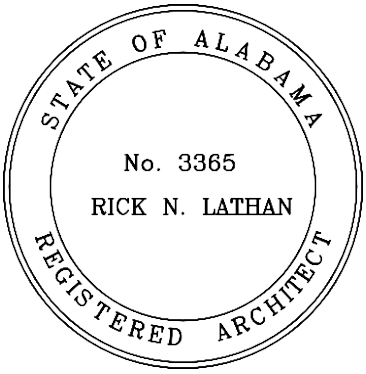


LATHAN ARCHITECTS

300 CHASE PARK SOUTH • SUITE 200 • HOOVER, ALABAMA 35244
205-988-9112

ADDENDUM NO. 1
ELEMENTARY ADDITION TO SUMTER CENTRAL HIGH SCHOOL
Architect Job No. 24-38
July 24, 2024
DCM # 20240619

BIDS DUE:
Thursday, August 1, 2024, until
2:00 p.m., local time,
at the Alabama Department of Education:
Birmingham Office,
1800 International Park Drive,
Suite 400
Birmingham, AL 35243

The Plans and Specifications are here by amended. The following supersedes all contrary and/or conflicting information and is made part of the contract documents.

GENERAL

1. See the attached Request for Proposals.

SPECIFICATIONS

1. **SECTION 01020 – ALLOWANCES** revise the schedule of allowances as follows:

   3.3 Schedule of Allowances

   Allowance No. 1: Include a contingency allowance of $250,000.00 for the Owner's use throughout the project for unforeseen conditions as directed by the Architect.

   Allowance No. 2: Include a quantity allowance of 200 cubic yards of replacement of unsuitable soils with compacted structural fill. This Base Bid grading shall include the required cutting and filling of the existing grade to the proposed subgrade elevation. Onsite Geotechnical engineer shall determine if unsuitable soils are present. Unit price is provided for the addition to or deletion from this assumed amount. Refer to Section 02300.

   Allowance No. 3: Include a contingency allowance of $75,000.00 to provide Fire Department Radio Transponder.

Allowance No. 4: Include a contingency allowance of $15,000.00 as an AID -to-Construction for utility fees.

Allowance No. 5: Include a quantity allowance under Base Bid for providing an additional 3 ton of in-place medium – heavy structural steel system construction, not otherwise indicated, to be shop fabricated, primed, and installed at the direction of the architect. This steel may be used throughout the project at multiple locations of any divisible quantity denomination or location, including but not limited to: lintels, beams, columns, shelf angles, edge angles, bent plates, rebar, joists, etc.

Allowance No. 6: Include a quantity allowance under Base Bid for providing an additional 1 ton of in-place miscellaneous steel system construction, not otherwise indicated, to be fabricated, primed, and installed at the direction of the architect. This steel may be used throughout the project at multiple locations of any divisible quantity denomination or location, including but not limited to: finished railings, clip angles, embeds, stair components, etc.

Allowance No. 7: Include a contingency allowance of $75,000 under Base Bid for providing CCTV System - includes installation of 39 camera, a 64 chancel NVR with 12TB HDD, 1 year of licenses and a 3-monitor video wall with a workstation.

Allowance No. 8: Include a contingency allowance of $10,000 under Base Bid for providing video access with intercom on main door, and access on interior door.

Allowance No. 9: Include a contingency allowance of $20,000 under Base Bid for providing a monument sign. Includes monument sign construction, providing electrical and data connection for new building.

DELETE: ~~Allowance No. 10: Include a quality allowance under Base Bid for providing an additional 3 ton of in-place medium-heavy structural steel system construction, not otherwise indicated to be shop fabricated, primed and installed at the direction of the architect. This steel may be used throughout the project at multiple locations of any divisible quantity denomination or location, including but not limited to: Lintels, beams, columns, shelf angles, edge angle, bent plates, rebar, joist, etc.~~

DELETE: ~~Allowance No. 11: Include a quality allowance under Base Bid for providing an additional 1 ton of in-place miscellaneous steel system construction, not otherwise indicated, to be fabricated, primed, and installed at the direction of the architect. This steel may be used throughout the project at multiple locations of any divisible quantity denomination of location, including but not limited to: Finished railings, clip angles, embeds, stair components, etc.~~

2. DELETE **SECTION 11481 – INDOOR GYMNASIUM SCOREBOARDS** in its entirety

DRAWINGS

1. Add the attached architectural addendum drawing – **ADD 1** in its entirety.

2. See attached revised Sheet **A2.2** to call out location for **NEW CANOPY.**

3. See attached revised Sheet **A10.1** added “LIGHT GAUGE STEEL TO 10’-9” A.F.F”.

4. See attached **A10.3** for revisions to the Reflected Ceiling Plan.

5. See Sheet **S3.1** – Sections and Details: Steel veneer lintel with anchorage revised to have plate extension to better coordinate with architectural drawings as well as “Contractor Option” added.

Revisions were made to both Section 6/S3.1 and Section 8/S3.1.

6. See attached revised Sheet **M0.2** added note 8 to Air Purification Schedules to note that Bipolar Ionization devices will be tied into the respective units. Revised Packaged Unit – Electric to add Two Speed Supply Fan Control. PACKAGED OUTSIDE AIR UNIT WITH ENERGY RECOVERY WHEEL schedule change Basis of Desing to Valent.

7. See attached Sheet **M0.3** revised **Occupied Mode** to add " FOR UNITS WITH COOLING CAPACITY EQUAL OR GREATER THAN 65 MBH. THE SUPPLY FAN SHALL HAVE TWO-SPEED FAN CONTROL AND SHALL ADJUST THE FAN SPEED TO 66% OF FULL FAN SPEED BASED ON COMPRESSOR STAGES AND ECONOMIZER OPERATION."

8. See attached Sheet **M1.0** added "PROVIDE MD IN VERTICAL (TYP.) and the following mechanical keyed note:
   Mechanical Keyed Notes:
   1. WALL HUNG UNIT WITH STACKED SIDEWALL SUPPLY AND RETURN GRILLES, COORDINATE MOUNTING HEIGHT WITH ARCHITECT.

9. See attached Sheet **M1.1** revised to add the following:
   Mechanical Keyed Notes:
   1. WALL HUNG UNIT WITH STACKED SIDEWALL SUPPLY AND RETURN GRILLES. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
   2. CONTRACTOR TOO COORDINATE THE INSTALLATION OF UNIT ON GRADE AND PAD WITH ARCHITECTURAL EXTERIOR FINISHES. DUCTWORK TO RUN UP EXTERIOR AND PENETRATE WALL WHERE ARCHITECT CALLS OUT FOR SPECIFIED GAP IN FINISHES. COORDINATE WITH ARCH AND GC.

10. See attached Sheet **M1.2** revised to add the following:
    Mechanical Keyed Notes:
    1. WALL HUNG UNIT WITH STACKED SIDEWALL SUPPLY AND RETURN GRILLES. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.

11. See attached Sheet **M2.0** revised Mechanical – Roof Plan – Part A.

12. See attached Sheet **M2.1** revised Mechanical – Roof Plan – B.

13. See attached Sheet **M2.2** revised Mechanical – Roof Plan – C.

14. See attached Sheet **M3.0** revised Mechanical Piping – Floor Plan – Part A.

15. See attached Sheet **M3.2** revised Mechanical Piping – Floor Plan – Part C.

16. See attached Sheet **FP0.1** for revisions to Fire Protection Schedules and Details.

17. See attached Sheet **FP0.2** and **FP0.3** for Fire Pump Details.

18. See ASST. OFFICE A112 on attached Sheet **FP1.1** for revisions to Fire Protection – Floor Plan – Part C.

19. See attached Sheet **P0.01** for revised Water Heater Schedule**.**

20. See attached Sheet **P1.0 for revised Non-Pressure Piping – Floor Plan – Part B.**

21. See attached Sheet **P1.1** for revised Non-Pressure Piping – Floor Plan – Part C & Gym.

22. See attached Sheet **P2.0** for revised Pressure Piping – Floor Plan – Part A & B.

23. See attached Sheet **P2.1** for revised Pressure Piping – Floor Plan – Part C & Gym.

24. See attached Sheet **P3.0** for revisions to Non-Pressure – Risers.

25. See attached Sheet **P3.1** for revisions to Pressure Risers.

26. See attached Sheet **E0.1** revised Legend to read: "WEATHERPROOF RECEPTACLE – NEMA 5-20R, GF, TR, WR W/ IN-USE EXTRA DUTY WET LOCATION COVER". Updated Applicable Building Code to for testing and providing of an emergency responder communication coverage amplifier system.

27. See attached Sheet **E0.2** revised to add note 2 "ALL SWITCHES SHOWN GROUPED SHALL BE GANGED UNDER A SINGLE COVERPLATE". Revised Luminaire Schedule, see Description and Comments/Options for changes. Revised LCP-1 Schedule to add Relay: 1, Panel: LP-2, Circuit Number: 28, Location Description: Parking Lot, Location Control: Exterior Override Switch.

28. See attached Sheet **E0.5** revised to identify ECB-SS previously shown as ECB.

29. See attached Sheet **E0.6** for revisions to Electrical Panelboard Schedules.

30. See attached Sheet **E0.7** for revised Electrical Generator Details.

31. See attached **E1.0** revised to include underground feeder route to storm shelter and to include tamper switches.

32. See attached **E2.0** revised to provide continuous dimming in addition to full ON and Full OFF.

33. See attached **E2.1** for Storage D103 to have vacancy wall switch "Manual on".

34. See attached **E2.2** for Storage A120 to have vacancy wall switch "Manual on". Revised for Workroom A106 to provide continuous dimming inn addition to full ON and Full OFF.

35. See attached Sheet **E3.0** for revisions to Power and Voice/Data – Floor Plan – Part A. Revised to include GFCI receptacles within 25' of HP units serving classrooms.

36. See attached **E3.1** revised Floor Plan Part B Key Note 1 to read "N/A". Revised to include GFCI receptacles within 25' of HP units serving classrooms.

37. See attached Sheet **E3.2** for revisions to Power and Voice/Data – Floor Plan – Part C. Revised to include GFCI receptacles within 25' of HP units serving classrooms.

38. See attached Sheet **E4.0** for revisions to Electrical – Roof Plan – Part A.

39. See attached Sheet **E4.1** for revisions to Electrical – Roof Plan – Part B.

40. See attached Sheet **E5.0** for revisions to Auxiliary – Floor Plan – Part A.

41. See attached Sheet **E5.1** for revisions to Auxiliary – Gym Floor Plan and Auxiliary – Floor Plan – Part B.

CLARIFICATIONS

1. The existing fire alarm manufacturer is Edwards, it is networkable, and will have no issue connecting to the additional work.

APPROVED MANUFACTURERS

The following manufacturers have submitted data for prior approval and have been approved by our office, **contingent upon the stipulation that their products must meet or exceed the contract specifications**.

Product		Manufacturer
08420 Entrances & Storefronts	FG3000T 2”x4-1/2” Thermal Storefront	Oldcastle Building Envelope
08420 Entrances & Storefronts	FL300T 2”x4-1/2” Thermal Storefront	Coral Industries
08420 Entrances & Storefront	CT451 Therma 2”x4-1/2” Storefront	Trulite Glass & Aluminum Solutions
09625 Modular Athletic Flooring	Maple Tuffshield Revolution MTSREV	SnapSports
15760 Mini Split Heat Pump System	Bryant 38 series condenser	Carrier Corporation
15760 Mini Split Heat Pump System	Bryant 40 Series Air Handler	Carrier Corporation
15770 Rooftop Units	Bryant 559 Series	Carrier Corporation

REQUEST FOR PROPOSALS

Sealed proposals, in duplicate, from Qualified General Contractors will be received by the Awarding Authority: Sumter County Board of Education, held at the Alabama Department of Education, Birmingham Office, 1800 International Park Drive, Suite 400, Birmingham, AL 35243, on Thursday, August 1, 2024, until 2:00 p.m., local time,

ELEMENTARY ADDITION TO SUMTER CENTRAL HIGH SCHOOL
Architect Job No. 24-38

At such time and place, the bids will be opened and read. Bids that are received via mail and not presented at the bid opening are to be considered non-responsive. It is the responsibility of the bidder to assure that bids are presented at the time of the bid if they choose to mail the bid. Contractors must notify the Awarding Authority if a bid is to be received by mail.

A cashier's check or bid bond payable to Sumter County Board of Education in an amount not less than five (5) percent of the amount of the proposal, but in no event more than $10,000.00, must accompany the bidder's proposal for each project. Performance and Payment Bonds and evidence of insurance as required in the bid documents will be required at the signing of the Contract.

Drawings and specifications for the project may be examined at the Digital Plan Room at Alabama Graphics (algraphicsplanroom.com). Private Jobs with Password. Password is lathan.

Prior to issuance of plans and specifications, all Contractors must provide evidence that they are properly licensed for the classification of work for this project. Evidence shall be in the form of a copy of current license clearly indicating all classifications, or sub-classifications, bid limits, license number; and expiration date.

Hard copy sets of drawings/ specifications will be available to General Contractors for purchase directly from the document printer: Alabama Graphics.

Bids must be submitted on proposal forms furnished by the Architect or copies thereof, issued either with the original contract documents or by addendum. General Contractors shall not use Proposal Forms other than those provided in the contract documents.

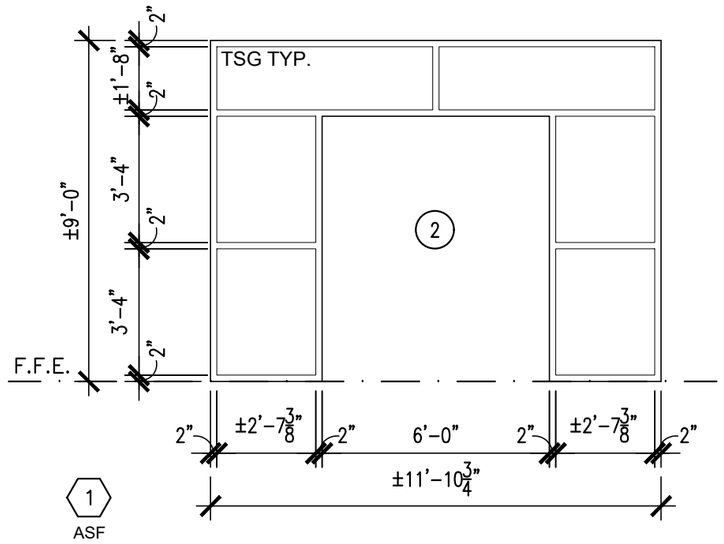
All bidders bidding in amounts exceeding that established by the State Licensing Board for General Contractors must be licensed under the provisions of Title 34, Chapter 8, Code of Alabama, 1975. The Bidder must display current General Contractor's License Number on the outside of the sealed envelope in which the proposal is delivered, or it will not be considered by the Architect or Owner. The Owner reserves the right to reject any or all proposals and to waive technical errors if, in the Owner's judgment, the best interests of the Owner will thereby be promoted.

Sumter County Board of Education
Awarding Authority

Lathan Associates Architects, P.C.
205-988-9112

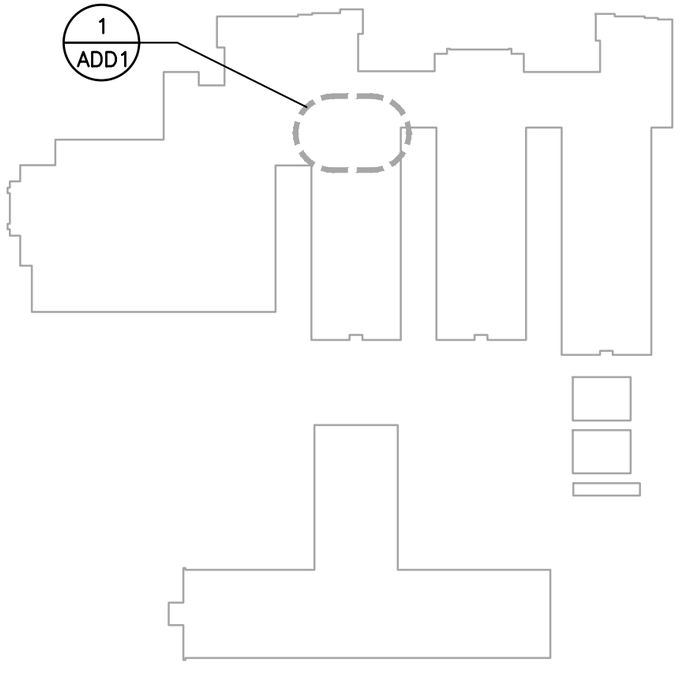
SYMBOLS LEGEND

NEW DOOR AND SWING	1C — DOOR TYPE / DOOR RATING; A — HARDWARE SYMBOL
1 — STOREFRONT	A — WALL PARTITION TYPE - ASSUME TYPE 'A' SEE A2.1



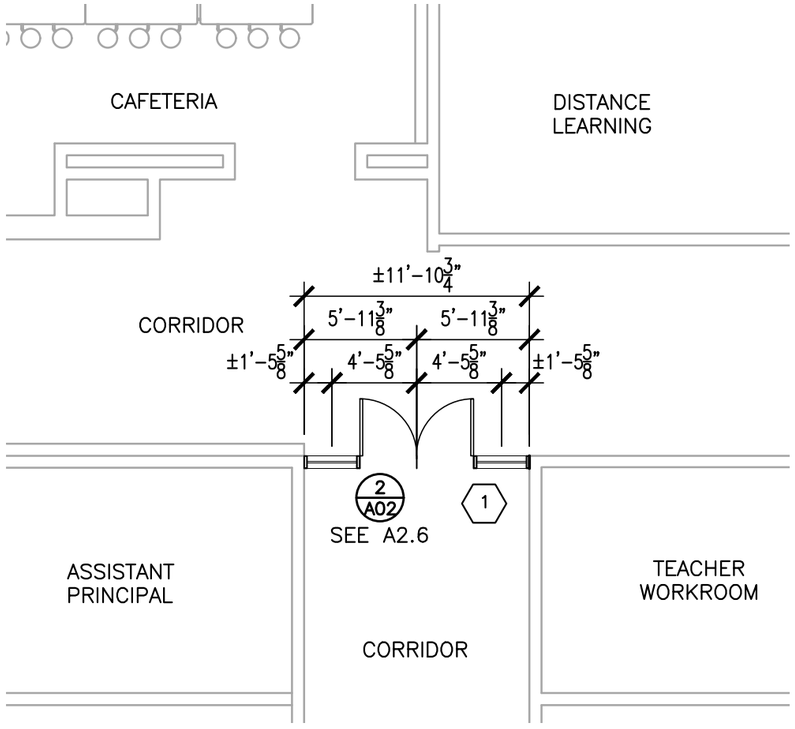
2 STOREFRONT SCHEDULE

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



EXISTING SCHOOL KEY PLAN

SCALE: N.T.S.



1 PARTIAL FLOOR PLAN

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

STATE OF ALABAMA
No. 3365
RICK N. LATHAN
REGISTERED ARCHITECT

LATHAN ARCHITECTS

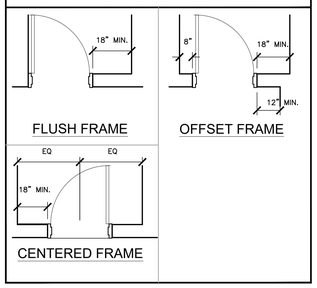
NOTE: GENERAL CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.

PROJECT:	PROJECT NO.	REFERENCE:
ELEMENTARY ADDITION TO SUMTER CENTRAL HIGH SCHOOL	24-38	ADDENDUM NO. 1
ARCHITECTURAL ADDENDUM DRAWING	DATE: 7/10/2024	SHEET NO. ADD 1

WALL TYPE LEGEND

EXTERIOR WALL	NEW 4" BRICK VENEER W/ AIR SPACE AND RIGID INSULATION ON REINFORCED CMU WITH DAMPPROOFING, PROVIDE BRICK WALL TIES @ 16" O.C.
CMU WALL	8" CONCRETE MASONRY WALL. SEE LIFE SAFETY PLAN FOR FIRE RATING.
EX WALL	EXISTING WALL TO REMAIN
SOUND ATTENUATION	SOUND ATTENUATION

DOOR PLACEMENT LEGEND



DOOR FIRE RATING LEGEND

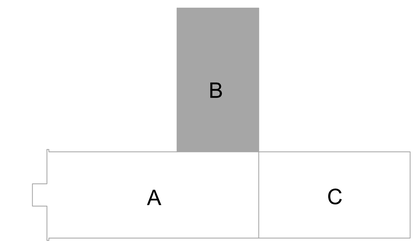
DOOR TYPE	(2)	NO RATING
DOOR TYPE + S	(2S)	SMOKE RATING

GENERAL NOTES

- EXTEND & KEY ALL WALLS TO BOTTOM OF TRUSS BEARING. SEE LIFE SAFETY DRAWINGS FOR RATED WALL LOCATIONS.
- COORDINATE W/ ELECTRICAL & MECHANICAL AND PROVIDE CONCRETE EQUIPMENT PAD AS REQUIRED
- SEE ELEVATIONS AND ROOF PLAN FOR DOWNSPOUT LOCATIONS
- SEE CIVIL DRAWINGS FOR CONTINUATION OF SIDEWALKS
- ALL PLAN DIMENSIONS ARE TO FACE OF CMU AND TO OUTSIDE OF BRICK UNLESS NOTED OTHERWISE
- WINDOWS ARE DIMENSIONED TO THE CENTER LINE
- SLOPE ALL SIDEWALKS AWAY FROM THE BUILDING
- DOWNSPOUTS SHALL BE PROVIDED WITH BOOTS AND 4" DIAMETER LEADER PIPING EXTENDED AND TIED INTO STORM DRAINAGE SYSTEM WHERE INDICATED
- SLOPE FINISH FLOOR TO FLOOR DRAINS. SEE PLUMBING FOR LOCATIONS OF FLOOR DRAINS.

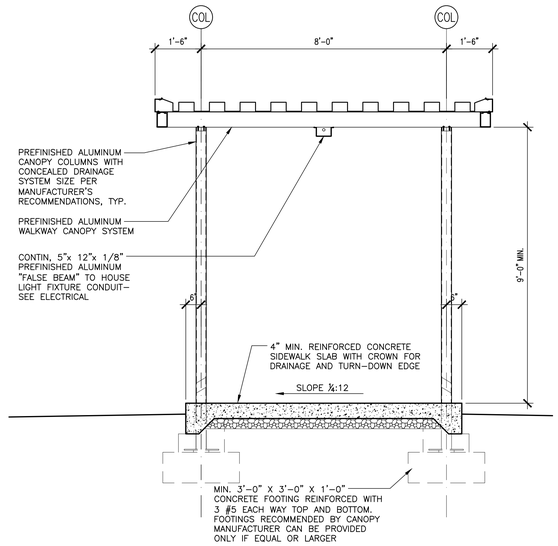
SYMBOLS LEGEND

TC / A	DOOR TYPE, DOOR RATING, HARDWARE SYMBOL, ACCESS CONTROL	TC / A	DOOR TYPE, DOOR RATING, HARDWARE SYMBOL
A / A1.1	ELEV. MARK, SHEET NUMBER	1 / A1.1	SECT. MARK, SHEET NUMBER
	NEW DOOR AND SWING	5 / A5.1	ELEV. MARK, SHEET NUMBER, INT. ELEVATION
EWC	ELECTRIC WATER COOLER	A	WALL PARTITION TYPE - ASSUME TYPE 'A' UNLESS NOTED OTHERWISE
TB	TACK BOARD	A	EXTERIOR WINDOW
MB	MARKER BOARD	1	STOREFRONT
FEC	RECESSED FIRE EXTINGUISHER CABINET WITH EXTINGUISHER	A	INTERIOR WINDOW
A200	ROOM NUMBER	FV	FIELD VERIFY
EJ	EXPANSION JOINT		AREA OF CONCRETE
FE	SURFACE MOUNT FIRE EXTINGUISHER	F.D.	FLOOR DRAIN
DS	DOWNSPOUT	CJ	CONTROL JOINT
SB	SPLASHBLOCK		
BT	BOOT		



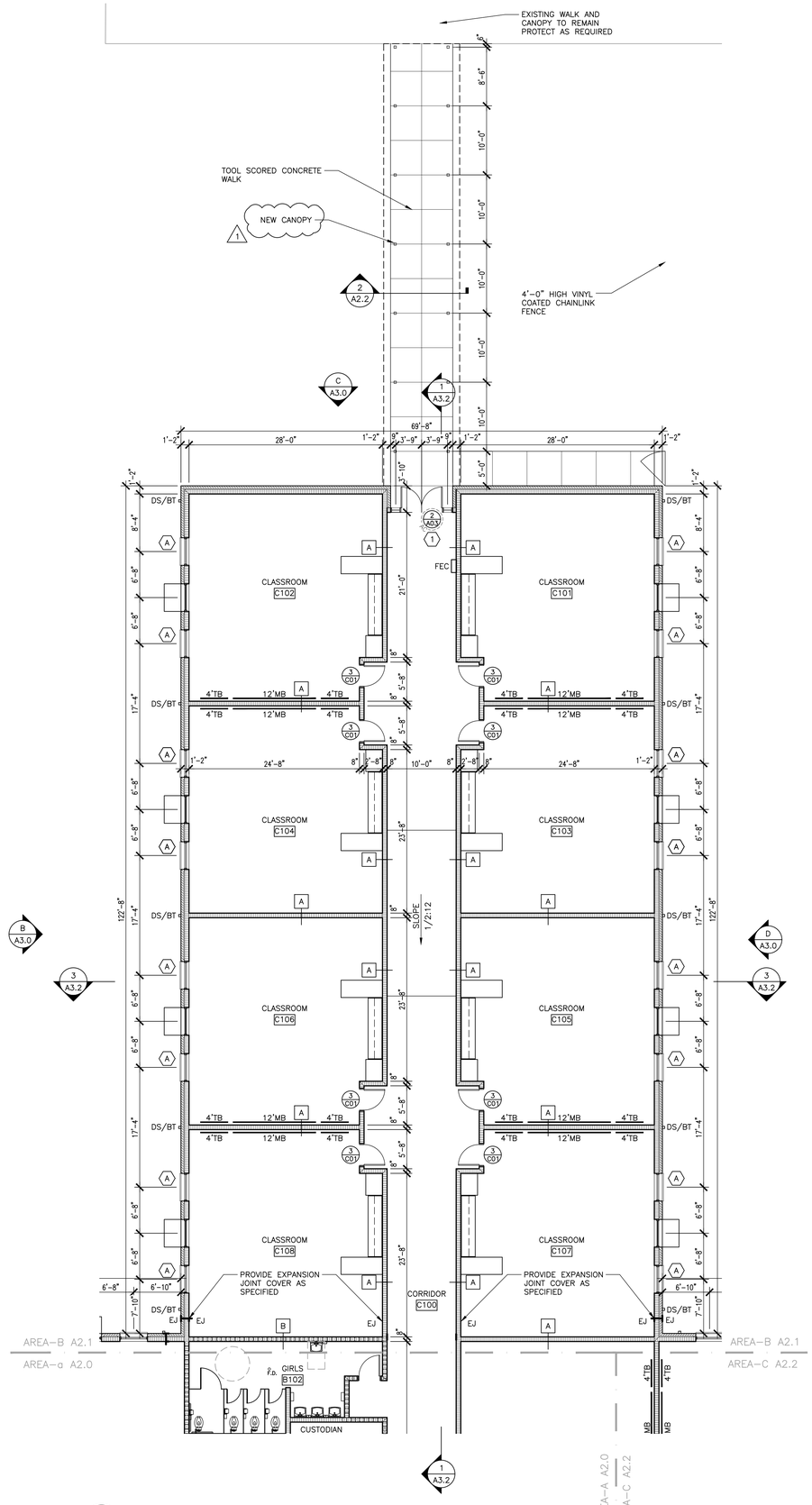
KEY PLAN

SCALE: N.T.S.



2 CONNECTOR CANOPY SECTION

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



1 PARTIAL FLOOR PLAN - AREA B

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

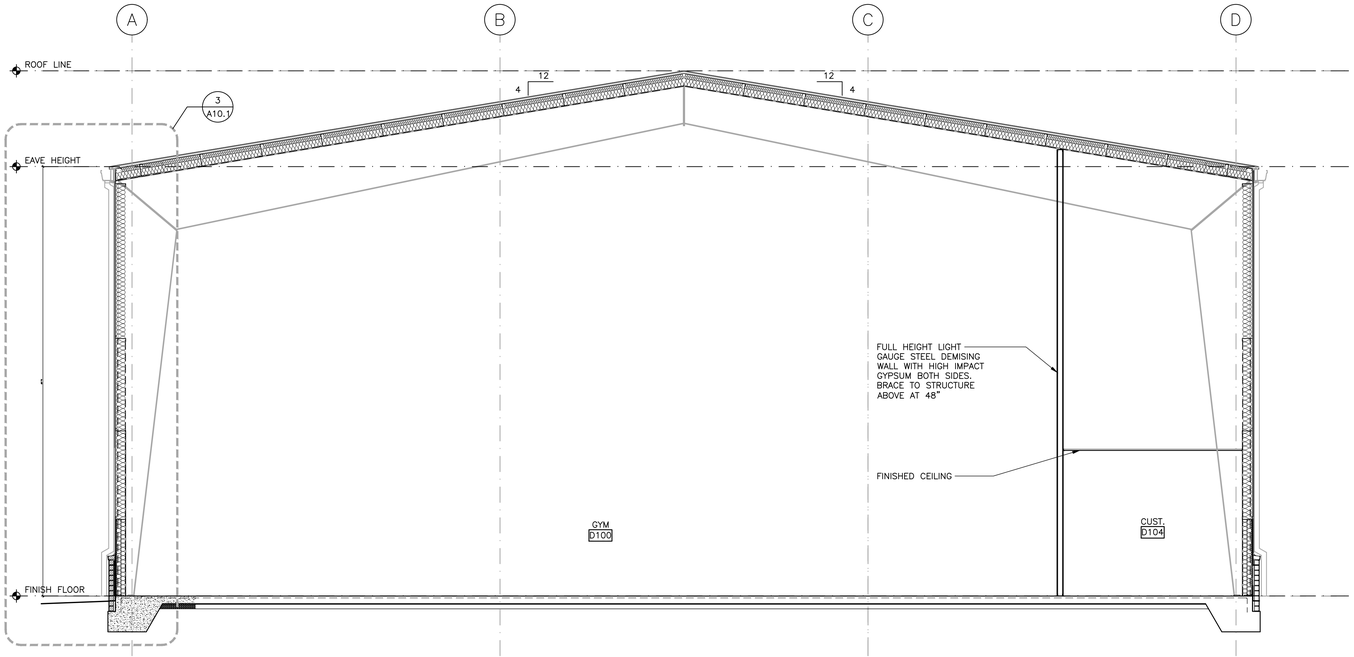
LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

SHEET TITLE:
PARTIAL FLOOR PLAN - AREA B

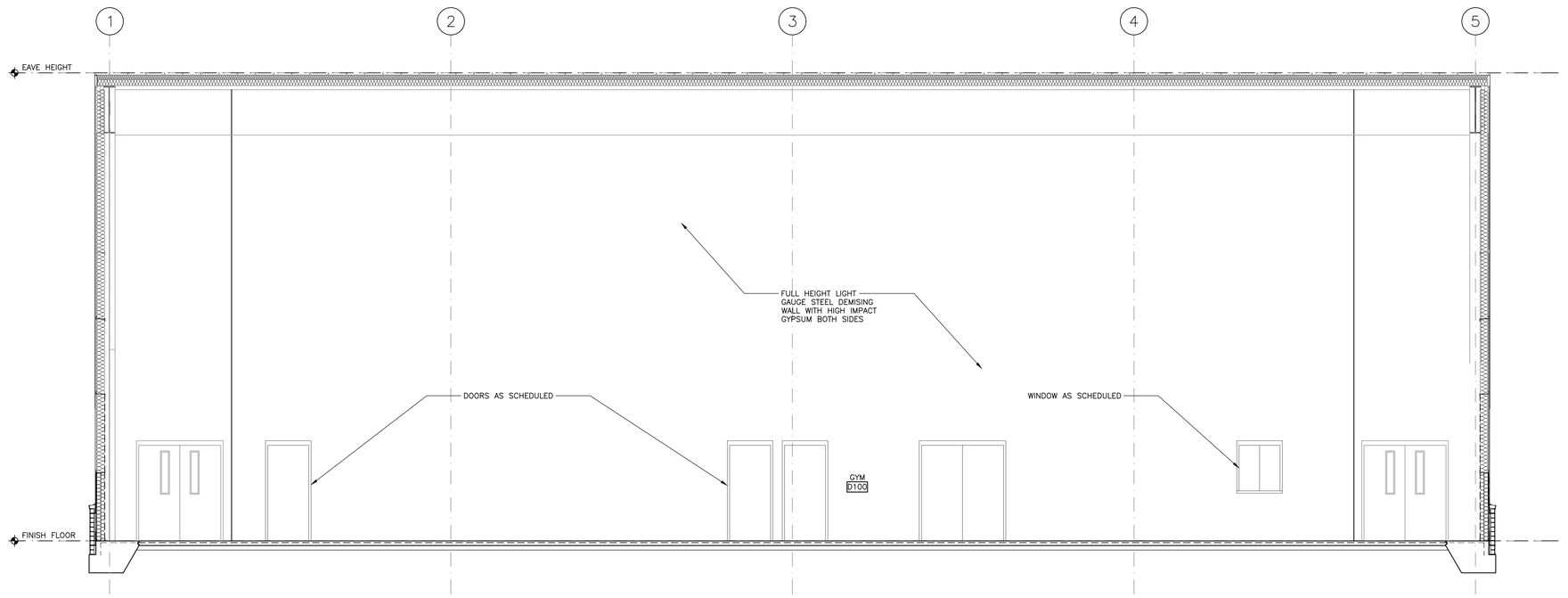
PROJ. MGR.: R. VERNON
DRAWN: JWW
DATE: 6/24/2024
REVISIONS
1 07.17.24 ADD #1

JOB NO. 24-38
SHEET NO:
A2.2
OF



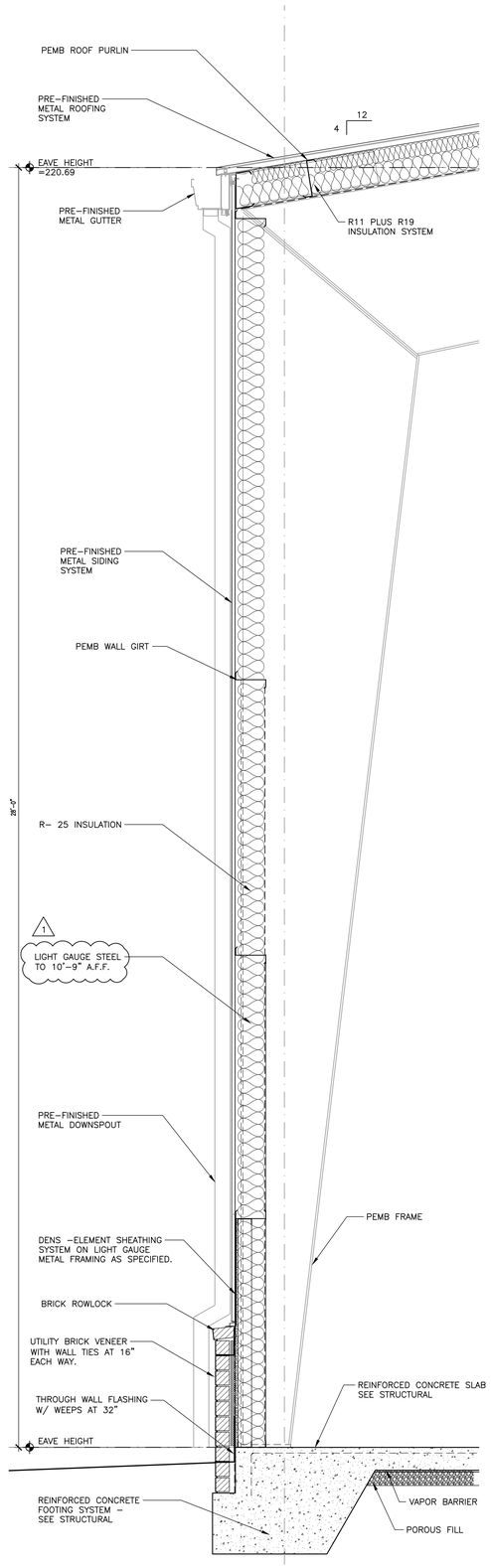
1 BUILDING SECTION

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



2 BUILDING SECTION

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



3 WALL SECTION

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

LATHAN ARCHITECTS

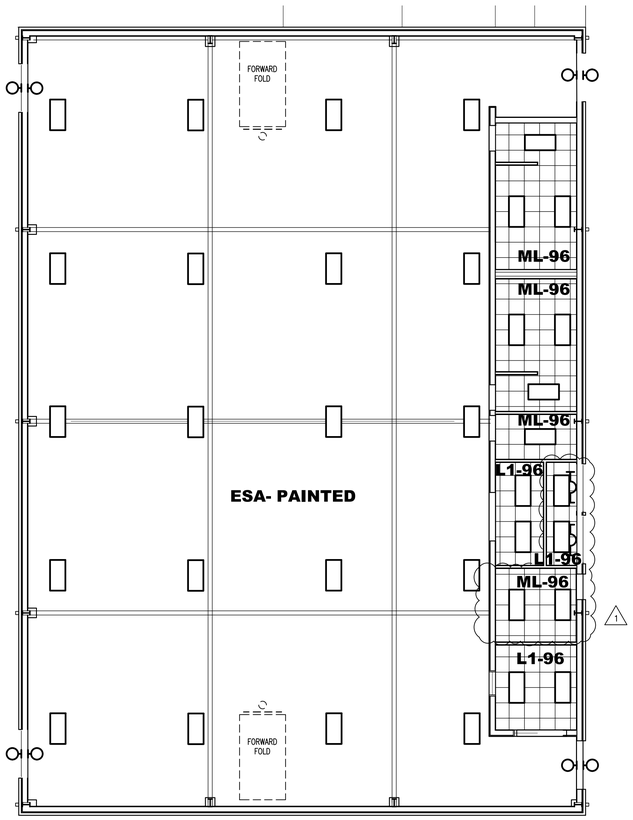
ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

SHEET TITLE:
GYM FLOOR PLAN & ELEVATIONS

PROJ. MGR.: R. VERNON
DRAWN: –
DATE: 6/24/2024
REVISIONS
1 07.16.24 ADD #1

JOB NO. 24-38
SHEET NO:
A10.1
27 OF 29

0 1" 2"



CEILING NOTES

1. ALL RATED GYPSUM BOARD CEILINGS TO BE TYPE "X" FIRE RATED GYPSUM BOARD. ALL GYPSUM BOARD WITHIN GYMNASIUM TO BE IMPACT RESISTANT
2. COORDINATE W/ MECH, PLUMBING, & ELECTRICAL DRAWINGS AND PROVIDE FRAMING AS REQUIRED TO ACCOMMODATE MECHANICAL, PLUMBING, & ELECTRICAL SYSTEMS.
3. AFF - ABOVE FINISHED FLOOR
4. ALL CEILING HEIGHTS INDICATED ARE FROM ADJACENT FINISHED FLOOR.
5. REFER TO ELECTRICAL DRAWINGS FOR FIXTURE TYPES.
6. ALL AREAS INDICATING NEW CEILING TO IMPLY DEMOLITION OF EXISTING CEILING SYSTEMS AS REQ'D THAT AREA.
7. ALL CEILING GRIDS ARE CENTERED IN ROOMS UNLESS NOTED OTHERWISE.
8. ALL MECHANICAL, ELECTRICAL AND PLUMBING ITEMS LOCATED IN ESA (EXPOSED STRUCTURE ABOVE) SHALL BE PAINTED AS DIRECTED BY ARCHITECT

CEILING LEGEND

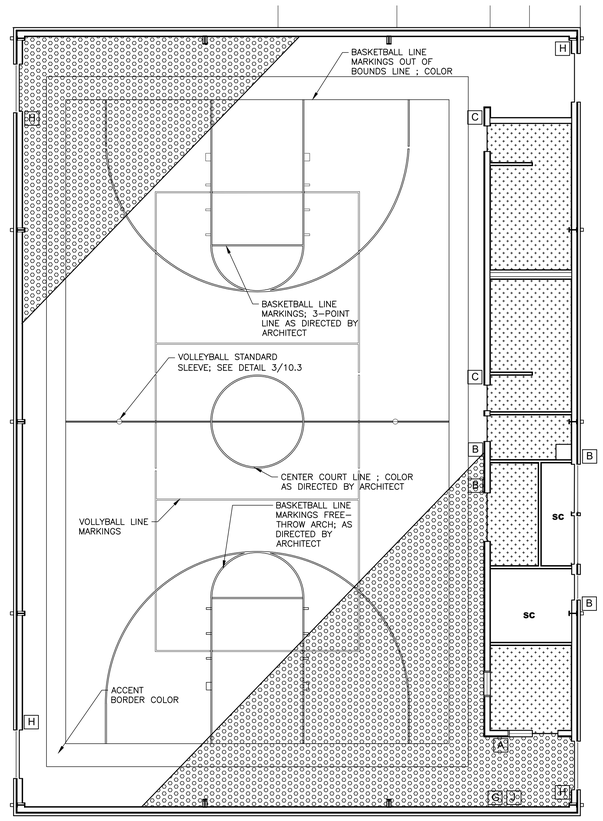
FIXTURE TYPES - SEE ELECTRICAL

CEILING TYPE	CEILING HEIGHTS
GB-GYPSUM BOARD	E = MAINTAIN EXIST. CEILING HEIGHT
MGB - MOISTURE RESISTANT GYPSUM BOARD	80 = 8'-0" AFF
EG - EXTERIOR GYPSUM BOARD	84 = 8'-4" AFF
L1 - 2 x 2 LAY-IN ACOUSTICAL CEILING TILE, AS SPECIFIED	86 = 8'-6" AFF
ML - 2 x 2 MOISTURE RESISTANT LAY-IN	88 = 8'-8" AFF
NC - NO CEILING	810 = 8'-10" AFF
ESA - EXPOSED STRUCTURE ABOVE; PAINT	90 = 9'-0" AFF
	92 = 9'-2" AFF
	93 = 9'-3" AFF
	94 = 9'-4" AFF
	96 = 9'-6" AFF
	98 = 9'-8" AFF
	100 = 10'-0" AFF
	106 = 10'-6" AFF
	110 = 11'-0" AFF
REFER TO FINISH SYMBOLS ON PLAN FOR MATERIALS AND CEILING HEIGHTS	1110 = 11'-10" AFF
	112 = 11'-2" AFF
	120 = 12'-0" AFF
	126 = 12'-6" AFF
	160 = 16'-0" AFF
	200 = 20'-0" AFF
	240 =24'-0" AFF
	260 = 26'-0" AFF

CEILING TYPE — GB–90 — CEILING HEIGHT

1 REFLECTED CEILING PLAN

1/8" = 1'–0"



FINISH PATTERN LEGEND

- LVT–1 LUXURY VINYL TILE
- ERF–1 EPOXY RESIN FLOOR
- SC SEALED CONCRETE
- MSC–1 MODULAR SPORT COURT

2 FLOOR FINISH PLAN

1/8" = 1'–0"

INTERIOR SIGNAGE LEGEND

A	SIGN WITH MESSAGE STRIP (OFFICES/CLASSROOM/INSTRUCTIONAL AREA)
B	ROOM NUMBER AND NAME (STORAGE, ELECTRICAL, ETC)
C	RESTROOM SIGNAGE WITH PICTOGRAM/BRAILLE
D	ELEVATOR SIGNAGE WITH PICTOGRAM/BRAILLE
E	STAIR SIGNAGE WITH PICTOGRAM/BRAILLE
F	AREA OF REFUGE SIGN
G	FRAMED CLEAR VIEW SIGNAGE (8.5X11)
H	TACTILE EXIT SIGN TO EXTERIOR (EXIT)
J	OCCUPANT LOAD SIGN (ASSEMBLY SPACES)
K	BUILDING DEDICATION PLAQUE

FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	MILLWORK FACE	MILLWORK TOP	WALLS NORTH	WALLS SOUTH	WALLS EAST	WALLS WEST	DOOR FRAME	NOTES
D100	GYM	MSC-1	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	
D101	OFFICE	LVT-1	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	
D102	RISER	SC	NO BASE			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	
D103	STORAGE	SC	RB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	
D104	CUSTODIAN	ERF-1	ERB-1	PL-1	PL-1	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	EPOXY PAINT IN ALL WET AREAS
D105	GIRLS	ERF-1	ERB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	EPOXY PAINT IN ALL WET AREAS
D106	BOYS	ERF-1	ERB-1			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	EPOXY PAINT IN ALL WET AREAS
D107	ELECTRICAL	SC	NO BASE			PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	

BASE(RUBBER/CERAMIC/PORCELAIN/WOOD)

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
RB–1	JOHNSONITE	COLOR-TO BE DETERMINED 4" RUBBER BASE	AS SCHEDULED
ERB–1	TORGINOL	MATCH ERF–1 4" INTEGRAL BASE	AS SCHEDULED

EPOXY RESIN

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
ERF–1	TORGINOL	COLOR: CUSTOM COLOR 4–COLOR MAX 1/4" BROADCAST FLAKES	AS SCHEDULED

LUXURY VINYL TILE

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
LVT–1	INTERFACE	COLOR: TO BE DETERMINED COLLECTION: STUDIO SET LVT	AS SCHEDULED

PLASTIC LAMINATE

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
PL–1	FORMICA	COLOR:5488–58 SMOKEY BROWN PEAR EDGEBAND:MATCH LAMINATE	COUNTERTOPS/CABINETS AND SINK BASE CABINETS

PAINT/STAIN

ITEM	MANUFACTURER	ITEM NUMBER/NAME	TYPE/LOCATION
PNT–1	SHERWIN WILLIAMS	COLOR: SW 7029 AGREEABLE GRAY	GENERAL WALLS EPOXY AT WET AREAS
PNT–2	SHERWIN WILLIAMS	COLOR: SW 7017 DORIAN GRAY	GENERAL TRIM

MODULAR SPORT COURT

ITEM	MANUFACTURER	ITEM NUMBER/NAME	LOCATION
MSC–1	SPORT COURT	COLOR: WOODGRAIN (LIGHT)	GYMNASIUM (FIELD)

FINISH ABBREVIATION LEGEND

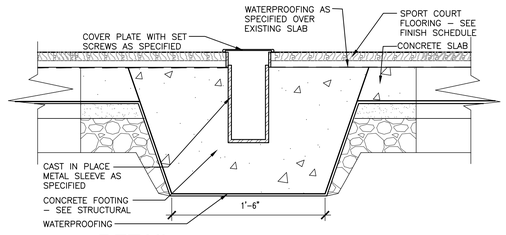
APF	ACOUSTIC PANEL FABRIC	PL	PLASTIC LAMINATE	TP	TACKABLE ACOUSTIC PANEL
CC	COATED CONCRETE	PM	PANEL MOULDING	TS	TACKABLE SURFACE
CM	CROWN MOLDING	PNT	PAINT	VCT	VINYL COMP. TILE
CPT	CARPET	PT	PORCELAIN TILE	WB	WOOD BASE
CR	CHAIR RAIL	PTB	PORCELAIN TILE BASE	WC	WALLCOVERING
CWT	CERAMIC WALL TILE	QT	QUARRY TILE	WF	WOOD FLOORING
EPB	EPOXY RESIN BASE	QTB	QUARRY TILE BASE	WP	WOOD PANELING
ERF	EPOXY RESIN FLOOR	RB	RUBBER BASE	WV	WOOD VENEER
ESD	STATIC CONTROL TILE	RF	RUBBER FLOOR		
GYP	GYPSUM BOARD	SC	SEALED CONCRETE		
IC	IMPRINTED CONCRETE	STC	STAINED CONCRETE		
LVT	LUXURY VINYL TILE	SS	SOLID SURFACE		
		ST	STAIN		

FINISH NOTES

ALL WALLS TO BE PAINTED PNT–1 UNLESS NOTED OTHERWISE.

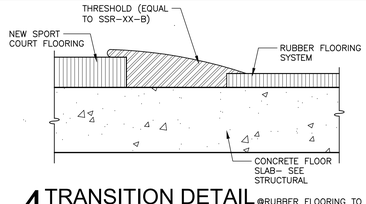
ALL WALLS LOCATED IN WET AREAS SHALL HAVE EPOXY BASED PAINT

ALL ROOM NUMBERS SHOULD BE USED FOR CONSTRUCTION PURPOSES ONLY.



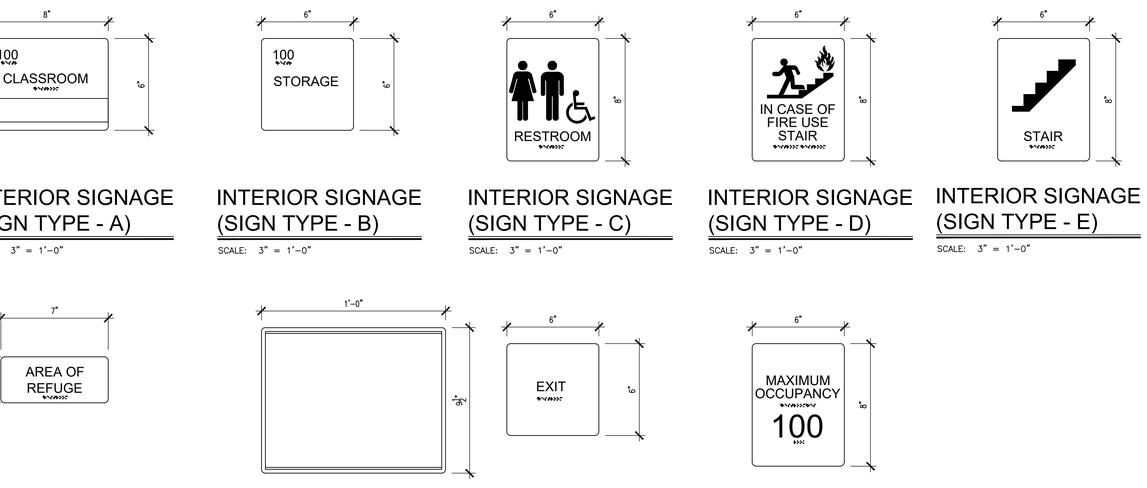
3 DETAIL @ NEWCOMB (VOLLEYBALL) POLE SLEEVE

SCALE: 1–1/2" = 1'–0"



4 TRANSITION DETAIL @RUBBER FLOORING TO SPORT COURT

NOT TO SCALE



INTERIOR SIGNAGE (SIGN TYPE - A)

SCALE: 3" = 1'–0"

INTERIOR SIGNAGE (SIGN TYPE - B)

SCALE: 3" = 1'–0"

INTERIOR SIGNAGE (SIGN TYPE - C)

SCALE: 3" = 1'–0"

INTERIOR SIGNAGE (SIGN TYPE - D)

SCALE: 3" = 1'–0"

INTERIOR SIGNAGE (SIGN TYPE - E)

SCALE: 3" = 1'–0"

INTERIOR SIGNAGE (SIGN TYPE - F)

SCALE: 3" = 1'–0"

INTERIOR SIGNAGE (SIGN TYPE - G)

SCALE: 3" = 1'–0"

INTERIOR SIGNAGE (SIGN TYPE - H)

SCALE: 3" = 1'–0"

INTERIOR SIGNAGE (SIGN - TYPE J)

SCALE: 3" = 1'–0"

LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

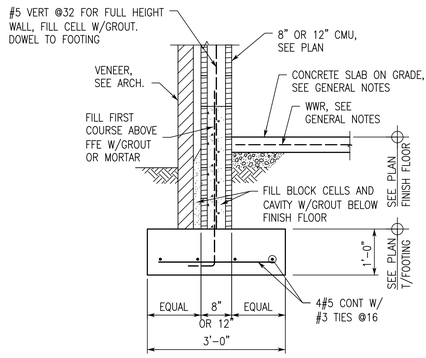
SHEET TITLE:
GYM REFLECTING CEILING PLAN AND FINISH FLOOR PLAN; LEGENDS AND SCHEDULES

PROJ. MGR.: R. VERNON
DRAWN: BL
DATE: 6/24/2024
REVISIONS
1 07.16.24 ADD #1

JOB NO. 24-38
SHEET NO:
A10.3
29 OF 29

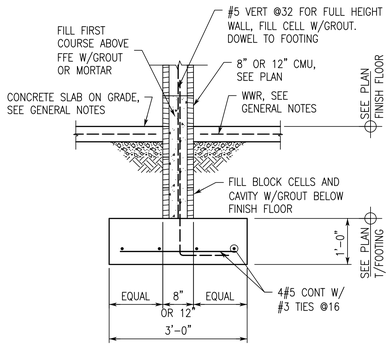
SDG
STRUCTURAL DESIGN GROUP
300 Chase Park South, Suite 125
Hoover, AL 35244
tel 205-824-5300
fax 205-824-5280
Job Number 24-109

LATHAN
ARCHITECTS

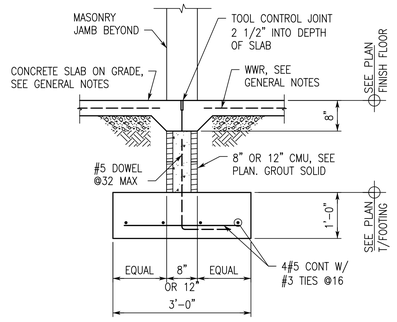


SECTION 1/S3.1
3/4"=1'-0"

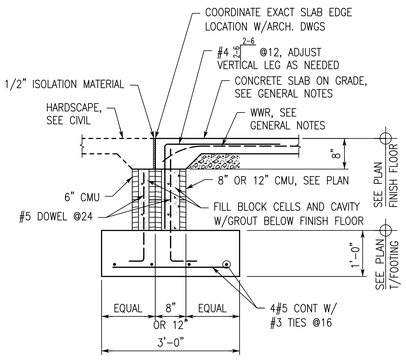
NOTE:
WHERE FINISH GRADE ELEVATION (FGE) IS HIGHER THAN FINISH FLOOR ELEVATION (FFE), FILL ALL BLOCK CELLS AND CAVITIES FROM FIRST COURSE ABOVE FGE AND BELOW W/GROUT. FOR FGE, SEE CIVIL.



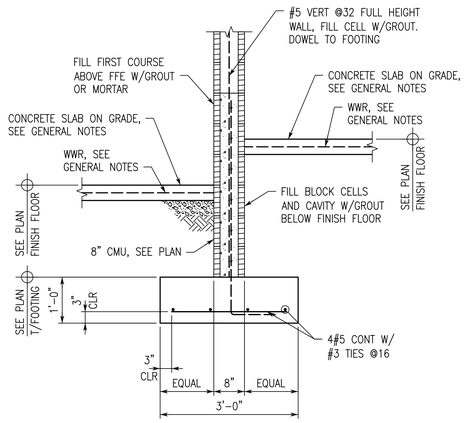
SECTION 2/S3.1
3/4"=1'-0"



SECTION 3/S3.1
3/4"=1'-0"

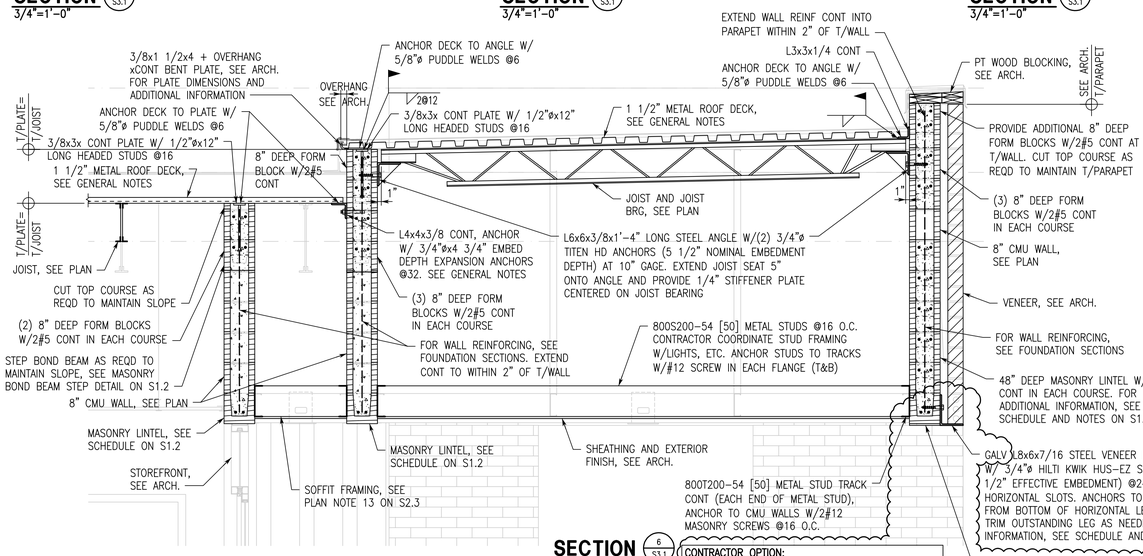


SECTION 4/S3.1
3/4"=1'-0"



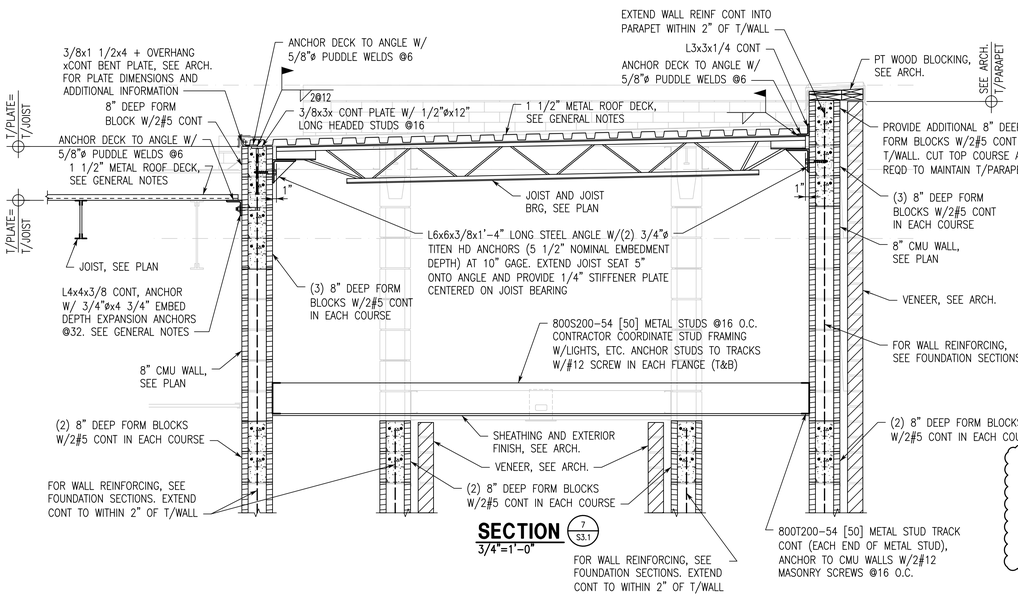
SECTION 5/S3.1
3/4"=1'-0"

NOTE:
AT SIMILAR CONDITION, FINISH FLOOR ELEVATION IN CORRIDOR VARIES DUE TO THE PRESENCE OF A RAMP.

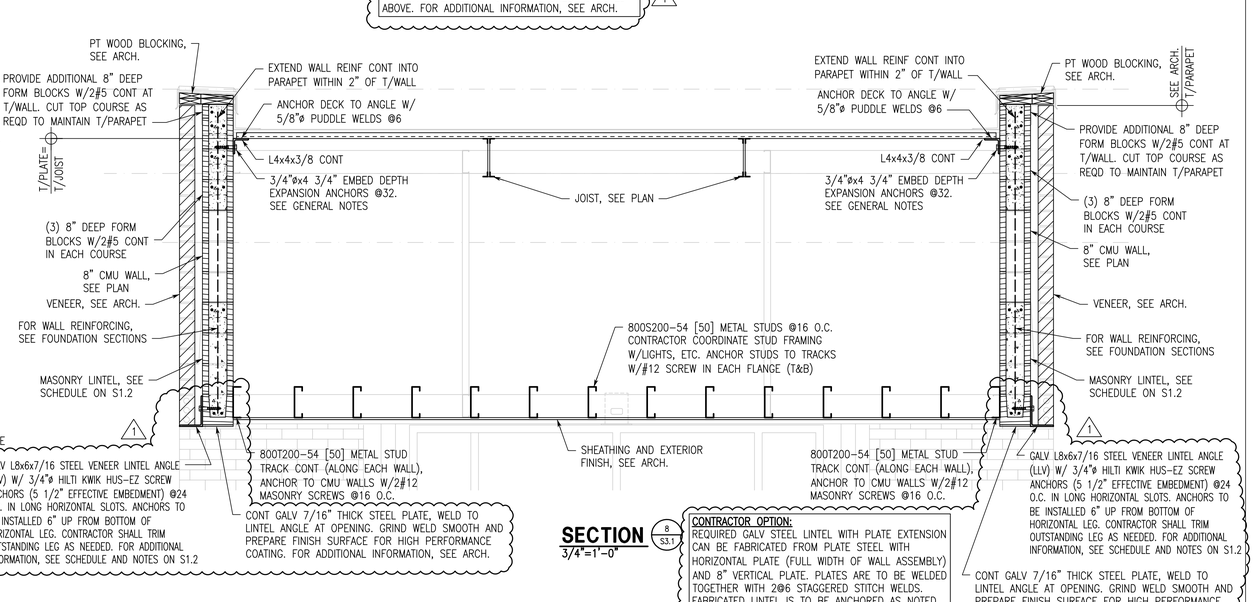


SECTION 6/S3.1
3/4"=1'-0"

CONTRACTOR OPTION:
REQUIRED GALV STEEL LINTEL WITH PLATE EXTENSION CAN BE FABRICATED FROM PLATE STEEL WITH HORIZONTAL PLATE (FULL WIDTH OF WALL ASSEMBLY) AND 8" VERTICAL PLATE. PLATES ARE TO BE WELDED TOGETHER WITH 2@6 STAGGERED STITCH WELDS. FABRICATED LINTEL IS TO BE ANCHORED AS NOTED ABOVE. FOR ADDITIONAL INFORMATION, SEE ARCH.



SECTION 7/S3.1
3/4"=1'-0"



SECTION 8/S3.1
3/4"=1'-0"

CONTRACTOR OPTION:
REQUIRED GALV STEEL LINTEL WITH PLATE EXTENSION CAN BE FABRICATED FROM PLATE STEEL WITH HORIZONTAL PLATE (FULL WIDTH OF WALL ASSEMBLY) AND 8" VERTICAL PLATE. PLATES ARE TO BE WELDED TOGETHER WITH 2@6 STAGGERED STITCH WELDS. FABRICATED LINTEL IS TO BE ANCHORED AS NOTED ABOVE. FOR ADDITIONAL INFORMATION, SEE ARCH.

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

ALABAMA REGISTERED No. 22596 PROFESSIONAL ENGINEER CRAIG WINN
H. Craig Winn, P.E.
7/16/2024

SHEET TITLE:
SECTIONS AND DETAILS

PROJ. MGR.:	HCW
DRAWN:	ABS
DATE:	6/24/2024
REVISIONS	
1	ADDENDUM NO. 1 07-16-2024

JOB NO. 24-38
SHEET NO:
S3.1
13 OF 16

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number :
50181596

LATHAN
ARCHITECTS

PACKAGED OUTSIDE AIR UNIT WITH ENERGY RECOVERY WHEEL

TYPE:
PACKAGED AC UNIT WITH DX COOLING COIL, ENERGY RECOVERY WHEEL, AND ELECTRIC HEAT.

NOTES:
1. COOLING CAPACITY IS NET CAPACITY @ 95°F AMBIENT.

ACCESSORIES:
1. 2" THICK THROWAWAY FILTER, MERV 8.
2. CONDENSER COIL GUARD.
3. BELT DRIVE SUPPLY AND EXHAUST FAN.
4. HEAD PRESSURE CONTROL TO 10°F AMBIENT.
5. HINGED ACCESS DOORS.
6. STAINLESS STEEL DRAIN PAN.
7. OSA INTAKE HOOD AND EXHAUST HOOD WITH AUTO DAMPERS.
8. HOT GAS REHEAT COIL.
9. HORIZONTAL DISCHARGE CURB.
10. FACTORY FABRICATED ROOF CURB.
11. DUEL ENTHALPY ECONOMIZER CONTROL.

MARK	SUPPLY FAN			EXHAUST FAN			SUMMER			WINTER			ELECTRICAL					DX COOLING COIL				HOT GAS REHEAT (MBH)	ELEC. HEAT		ISMRE2	WEIGHT (LBS)	ACCESSORIES	BASIS OF DESIGN
	CFM	E.S.P. (IN.-W.G.)	MOTOR (HP)	CFM	E.S.P. (IN.-W.G.)	MOTOR (HP)	OUTSIDE AIR EAT (DB°F/WB°F)	OUTSIDE AIR LAT (DB°F/WB°F)	EXHAUST ENTERING (DB°F/WB°F)	OUTSIDE AIR EAT (DB°F/WB°F)	OUTSIDE AIR LAT (DB°F/WB°F)	EXHAUST ENTERING (DB°F/WB°F)	V	PH	Hz	MCA (A)	MOCP (A)	LAT (DB°F/WB°F)	TOTAL (MBH)	SENS (MBH)	NOM. TONS	CIRCUITS		kW	STAGES				
ERU-1	1805	1.0	1.0	1710	1.0	1	95 / 78	81.1 / 68.4	75 / 62.5	17 / 13.9	51.8 / 45.1	70 / 58	480	3	60	28.7	30	53.5 / 53.5	85.4	54.8	7	1	57.2	15.0	SCR	7.4	3000	1,2,3,4,5,6,7,8,9,10,11	VALENT
ERU-2	1825	1.0	1.0	1755	1.0	1	95 / 78	80.9 / 68.1	75 / 62.5	17 / 13.9	52.4 / 45.6	70 / 58	480	3	60	28.7	30	54.0 / 53.9	85.9	56.3	7	1	58.8	15.0	SCR	7.4	3000	1,2,3,4,5,6,7,8,9,10,11	VALENT
ERU-3	1360	1.0	1.0	1160	1.0	1	95 / 78	82.2 / 69.3	75 / 62.5	17 / 13.9	48.9 / 42.7	70 / 58	480	3	60	28.4	30	53.5 / 53.4	69.6	43.0	6	1	47.1	15.0	SCR	8.0	3000	1,2,3,4,5,6,7,8,9,10,11	VALENT

PACKAGED UNIT - ELECTRIC

TYPE:
1. PACKAGED ROOFTOP UNIT, VERTICAL DISCHARGE.
2. PACKAGED AC UNIT, HORIZONTAL DISCHARGE.

NOTES:
1. COOLING CAPACITY IS NET CAPACITY @ 95°F AMBIENT.
* OUTSIDE AIR REQUIRED IS BEING PROVIDED BY ERU.

ACCESSORIES:
1. 2" THICK THROWAWAY FILTER, MERV 8.
2. CONDENSER COIL GUARD.
3. HEAD PRESSURE CONTROL TO 10°F AMBIENT.
4. OSA INTAKE HOOD WITH AUTO DAMPER, ECONOMIZER, AND BAROMETRIC RELIEF.
5. STEEL FACTORY FABRICATED INSULATED ROOF CURB.
6. HINGED ACCESS DOORS.
7. FACTORY ROOF CURB.
8. STAINLESS STEEL DRAIN PAN.
9. HOT GAS REHEAT COIL. MINIMUM 15°F RISE.
10. BIPOLAR IONIZATION.
11. TWO SPEED SUPPLY FAN CONTROL.

MARK	TYPE	SUPPLY FAN			MAX OSA (CFM)	MIN OSA (CFM)	DX COOLING CAPACITY				ELEC HEAT		ELECTRICAL					EER	WEIGHT (LBS)	ACCESSORIES	BASIS OF DESIGN
		AIRFLOW (CFM)	E.S.P. (IN.-W.G.)	MOTOR (HP)			EAT (DB°F/WB°F)	TOTAL (MBH)	SENS (MBH)	NOM. TONS	KW	STAGES	V	PH	HZ	MCA (A)	MOCP (A)				
AHU-GYM	2	9900	1.1	4.6	900	650	76.76 / 63.9	263.5	206.3	25	72	2	480 V	3	60	102	110	10.7	2100	1,2,3,4,5,6,8,9,10,11	TRANE
RTU-1	1	2400	0.9	2.75	0*	0*	75 / 63	72.6	58.2	6	18	2	480 V	3	60	47	50	12.1	1250	1,2,3,4,5,6,7,8,9,10,11	TRANE
RTU-2	1	2400	0.9	2.75	0*	0*	75 / 63	72.6	58.2	6	18	2	480 V	3	60	47	50	12.1	1250	1,2,3,4,5,6,7,8,9,10,11	TRANE
RTU-3	1	1200	0.8	1.5	0*	0*	75 / 63	36.0	28.7	3	12	2	480 V	3	60	29	30	12.1	900	1,2,3,4,5,6,7,8,9,10	TRANE
RTU-ADMIN	1	1600	0.9	1.5	0*	0*	75 / 63	44.7	38.1	4	12	2	480 V	3	60	29	30	13.0	1100	1,2,3,4,5,6,7,8,9,10	TRANE

FAN SCHEDULE

FAN TYPE:
1. CENTRIFUGAL SQUARE INLINE - DIRECT DRIVE.
2. CENTRIFUGAL ROOF FAN - DIRECT DRIVE.

FAN ACCESSORIES:
1. BACKDRAFT DAMPER.
2. DISCONNECT SWITCH.
3. BIRDSCREEN.
4. 5A-120V FAN SPEED CONTROLLER.
5. SPRING VIBRATION ISOLATORS.
6. FLEXIBLE CONNECTIONS.

MARK	FAN TYPE	AIRFLOW (CFM)	E.S.P. (IN.-W.G.)	WHEEL SIZE (INCHES)	SOUND CRITERIA (SONES/dBA)	RPM	MOTOR (HP / W)	ELECTRICAL			INTERLOCK WITH	WEIGHT (LBS)	ACCESSORIES	BASIS OF DESIGN
								V	PH	HZ				
EF-1	1	650	0.5	11.2	6.4 / 54	1260	1/4	120 V	1	60	OCCUPANCY	50	1,2,3,4,5,6	GREENHECK
EF-2	2	300	0.5	10.9	8.3 / 57	1669	1/10	120 V	1	60	T-STAT	50	1,2,3,4,6	GREENHECK

WALL HEATER SCHEDULE

HEATER TYPE:
1. ELECTRIC WALL HEATER.

ACCESSORIES:
1. SURFACE MOUNTING.
2. UNIT MOUNTED THERMOSTAT.
3. CONCEALED ON/OFF SWITCH.
4. HIGH LIMIT CONTROLS.
5. BUILT-IN CIRCUIT BREAKER.

MARK	SIZE (kW)	ELECTRICAL			ACCESSORIES	BASIS OF DESIGN
		V	PH	HZ		
EWH-1	4.0	277	1	60	1,2,3,4,5	MARKEL

AIR PURIFICATION SCHEDULE

FLOW	GPS MODEL	GPS QUANTITY	VOLTAGE	WATTS	MOUNTING LOCATION	MANUFACTURER
CV	GPS-IRIB	1 PER UNIT	115	5	UNIT SERVED	GLOBAL PLASMA SOLUTIONS

1. BASIS OF DESIGN: GLOBAL PLASMA SOLUTIONS: APPROVED EQUALS BY PHENOMENAL AIRE, ACTIVE AIR, AIRGENICS AND BIOXGEN SUBJECT TO SPECIFICATION COMPLIANCE.
2. MOUNT GPS-IRIB TO AIR INLET SIDE OF COOLING COIL.
3. IF CONTRACTOR SUBSTITUTES BASIS OF DESIGN WITH ANOTHER MANUFACTURER, CONTRACTOR SHALL COORDINATE ALL ELECTRICAL AND MECHANICAL CHANGES.
4. BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE NOT ACCEPTABLE.
5. ALL MANUFACTURER'S MUST PASS UL-867-2007 OZONE CHAMBER TESTING BY EITHER US OR ETL.
6. ION GENERATORS SHALL INCLUDE AN LED INDICATOR LIGHT.
7. PROVIDE GPS-IRIB FOR ALL DUCTWORK UNITS.
8. IONIZATION SYSTEMS SHALL DE-ENERGIZE WHILE AIR HANDLING UNIT SUPPLY FAN IS TURNED OFF.

PROVIDE FOR ALL WALL HUNG UNITS.

AIR PURIFICATION SCHEDULE

FLOW	GPS MODEL	GPS QUANTITY	VOLTAGE	WATTS	MOUNTING LOCATION	MANUFACTURER
CV	GPS-FC	1 PER UNIT	24	1.2	UNIT SERVED	GLOBAL PLASMA SOLUTIONS

1. BASIS OF DESIGN: GLOBAL PLASMA SOLUTIONS: APPROVED EQUALS BY PHENOMENAL AIRE, ACTIVE AIR, AIRGENICS AND BIOXGEN SUBJECT TO SPECIFICATION COMPLIANCE.
2. MOUNT GPS-FC TO AIR INLET SIDE OF COOLING COIL.
3. IF CONTRACTOR SUBSTITUTES BASIS OF DESIGN WITH ANOTHER MANUFACTURER, CONTRACTOR SHALL COORDINATE ALL ELECTRICAL AND MECHANICAL CHANGES.
4. BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE NOT ACCEPTABLE.
5. ALL MANUFACTURER'S MUST PASS UL-867-2007 OZONE CHAMBER TESTING BY EITHER US OR ETL.
6. PROVIDE 24 V TRANSFORMER AS REQUIRED.
7. PROVIDE GPS-FC-3 FOR 3/4 CEILING CASSETTE INDOOR SPLITS.
8. IONIZATION SYSTEMS SHALL DE-ENERGIZE WHILE AIR HANDLING UNIT SUPPLY FAN IS TURNED OFF.

PROVIDE FOR ALL FHP UNITS.

AIR PURIFICATION SCHEDULE

FLOW	GPS MODEL	GPS QUANTITY	MINIMUM NEEDLE SPACING	VOLTAGE	WATTS	MOUNTING LOCATION	MINIMUM ION DENSITY (IONS/CC)
CV	GPS-iMOD	1 PER COOLING COIL	1 EVERY 3/4"	115	15	UNIT SERVED	40 MILLION PER 0.75"

NOTES:

1. BASIS OF DESIGN: GLOBAL PLASMA SOLUTIONS: APPROVED EQUALS BY PHENOMENAL AIRE, ACTIVE AIR, AIRGENICS AND BIOXGEN SUBJECT TO SPECIFICATION COMPLIANCE.
2. MOUNT GPS-iMOD TO AIR INLET SIDE OF COOLING COIL.
3. IF CONTRACTOR SUBSTITUTES BASIS OF DESIGN WITH ANOTHER MANUFACTURER, CONTRACTOR SHALL COORDINATE ALL ELECTRICAL AND MECHANICAL CHANGES.
4. BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES ARE NOT ACCEPTABLE.
5. ALL MANUFACTURER'S MUST PASS UL-867-2007 OZONE CHAMBER TESTING BY EITHER US OR ETL.
6. IONIZATION BAR TO HAVE A MINIMUM OF 1 NEEDLEPOINT EVERY 0.75" OF COIL WIDTH. SYSTEMS WITH NEEDLES FURTHER APART SHALL NOT BE ACCEPTABLE.
7. IONIZATION SYSTEMS WITH MULTIPLE ION MODULES MOUNTED TO A BAR SHALL NOT BE AN ACCEPTABLE SUBSTITUTE.
8. IONIZATION SYSTEMS THAT DO NOT USE EPOXY TO PROTECT THE ION CIRCUITRY SHALL NOT BE ACCEPTABLE.
9. IONIZATION OUTPUT SHALL BE A MINIMUM OF 40 MILLION IONS/CC FOR EVERY 0.75" OF COIL WIDTH.
10. IONIZATION SYSTEMS SHALL DE-ENERGIZE WHILE AIR HANDLING UNIT SUPPLY FAN IS TURNED OFF.

PROVIDE FOR ALL RTU UNITS.

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

SHEET TITLE:
MECHANICAL SCHEDULES

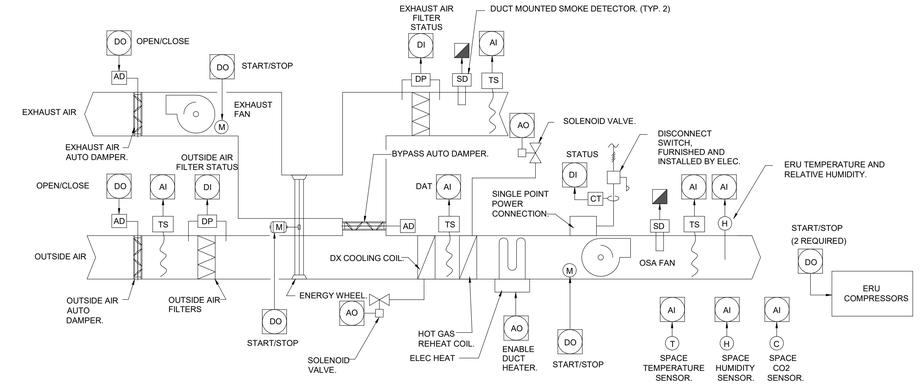
PROJ. MGR.:	–	JWS
DRAWN:		BDL
DATE:	–	07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
M0.2



PACKAGED OUTSIDE AIR UNIT WITH ENERGY RECOVERY WHEEL CONTROLS

ENERGY RECOVERY UNIT CONTROL SEQUENCE

THE CONTROLS FOR THE ENERGY RECOVERY UNIT ARE INTENDED TO BE STAND ALONE. ANY DIGITAL DEVICES SHOWN ARE INTENDED TO BE MONITORED OR CONTROLLED THROUGH THE FACTORY UNIT MOUNTED CONTROLLER.

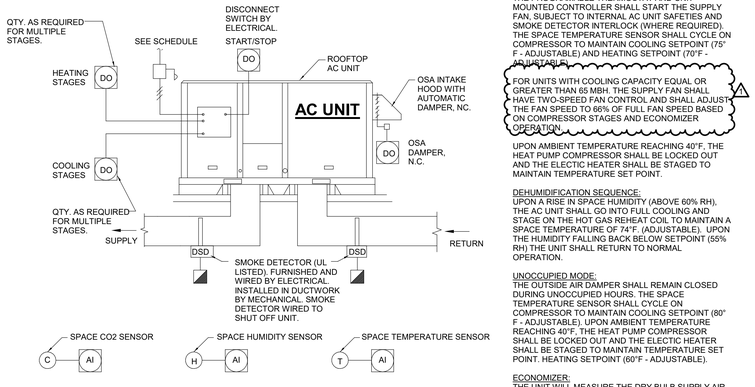
THE ENERGY RECOVERY UNIT (ERU) SHALL BE STARTED AND STOPPED BY THE UNIT MOUNTED CONTROLLER SUBJECT TO AN OWNER'S OCCUPANCY SCHEDULE AND SUBJECT TO INTERNAL UNIT SAFETIES. OCCUPIED AND UNOCCUPIED HOURS SHALL BE DETERMINED BY THE OWNER AND SHALL BE FULLY ADJUSTABLE AT THE UNIT MOUNTED CONTROLLER BY THE OWNER.

UNOCCUPIED MODE:
DURING UNOCCUPIED MODE, THE EXHAUST AIR AND OUTSIDE AIR AUTO DAMPERS SHALL BE CLOSED AND THE EXHAUST AIR AND OUTSIDE AIR FANS SHALL BE OFF.

OCCUPIED MODE:
DURING OCCUPIED HOURS, THE EXHAUST AIR AND OUTSIDE AIR DAMPERS SHALL OPEN. ONCE THE DAMPERS ARE PROVEN TO BE OPEN, THE WHEEL MOTOR SHALL START, THE SUPPLY FAN AND EXHAUST FAN SHALL BE STARTED BY THE UNIT MOUNTED CONTROLLER AND SHALL RUN CONTINUOUSLY. TEST AND BALANCE SHALL ADJUST THE FAN SPEED AT THE VARIABLE FREQUENCY DRIVE FOR EACH FAN TO PROVIDE THE SCHEDULED OUTSIDE AIR AND EXHAUST AIR CFM. THIS FAN SPEED SHALL BE SET AND SHALL BE DISPLAYED AT THE UNIT MOUNTED CONTROLLER. THE FAN SPEED FOR THE OUTSIDE AIR AND EXHAUST AIR FANS SHALL NOT VARY.

THE UNIT MOUNTED CONTROLLER SHALL STAGE ON COMPRESSORS AND OPEN/CLOSE SOLENOID VALVE(S) AT THE DX COIL TO MAINTAIN A 54°F SUPPLY AIR TEMPERATURE AS MEASURED AT THE TEMPERATURE SENSOR DOWNSTREAM OF THE DX COIL. THE HOT GAS REHEAT IN THE ERU SHALL MODULATE TO MAINTAIN A TEMPERATURE LEAVING THE ERU OF 72°F (SUMMER) AND 70°F (WINTER) AS MEASURED AT THE DISCHARGE AIR TEMPERATURE SENSOR. IN THE WINTER THE ELECTRIC HEATER SHALL STAGE ON TO PROVIDE A LEAVING AIR TEMPERATURE OF 70°F (ADJUSTABLE).

DEHUMIDIFICATION MODE:
IF THE SPACE MOUNTED RELATIVE HUMIDITY SENSOR RISES ABOVE 60% RH FOR LONGER THAN 10 MINUTES DURING OCCUPIED OR UNOCCUPIED MODES, THE ERU SHALL GO INTO DEHUMIDIFICATION MODE. IN DEHUMIDIFICATION MODE, THE EXHAUST AIR AND OUTSIDE AIR DAMPERS SHALL BE OPEN, THE EXHAUST AIR AND OUTSIDE AIR FANS SHALL RUN, THE CONDENSING UNIT SHALL BE ON AND PROVIDINING 100% COOLING, AND THE HOT GAS REHEAT AND ELECTRIC HEATER SHALL STAGE ON/OFF TO MAINTAIN A SPACE TEMPERATURE OF 72°F (SUMMER) AND 70°F (WINTER). ONCE THE HUMIDITY RETURNS TO BELOW 60% RH, THE ERU SHALL RETURN TO NORMAL OCCUPIED OR UNOCCUPIED MODE.



PACKAGED UNIT CONTROLS

NO SCALE

CONTROL SEQUENCE:

OCCUPIED MODE:
THE PROGRAMABLE THERMOSTAT AND UNIT MOUNTED CONTROLLER SHALL START THE SUPPLY FAN, SUBJECT TO INTERNAL AC UNIT SAFETIES AND SMOKE DETECTOR INTERLOCK (WHERE REQUIRED). THE SPACE TEMPERATURE SENSOR SHALL CYCLE ON COMPRESSOR TO MAINTAIN COOLING SETPOINT (75° F - ADJUSTABLE) AND HEATING SETPOINT (70°F - ADJUSTABLE).

FOR UNITS WITH COOLING CAPACITY EQUAL OR GREATER THAN 65 MBH. THE SUPPLY FAN SHALL HAVE TWO-SPEED FAN CONTROL AND SHALL ADJUST THE FAN SPEED TO 66% OF FULL FAN SPEED BASED ON COMPRESSOR STAGES AND ECONOMIZER OPERATION.

UPON AMBIENT TEMPERATURE REACHING 40°F, THE HEAT PUMP COMPRESSOR SHALL BE LOCKED OUT AND THE ELECTIC HEATER SHALL BE STAGED TO MAINTAIN TEMPERATURE SET POINT.

DEHUMIDIFICATION SEQUENCE:
UPON A RISE IN SPACE HUMIDITY (ABOVE 60% RH), THE AC UNIT SHALL GO INTO FULL COOLING AND STAGE ON THE HOT GAS REHEAT COIL TO MAINTAIN A SPACE TEMPERATURE OF 74°F. (ADJUSTABLE). UPON THE HUMIDITY FALLING BACK BELOW SETPOINT (55% RH) THE UNIT SHALL RETURN TO NORMAL OPERATION.

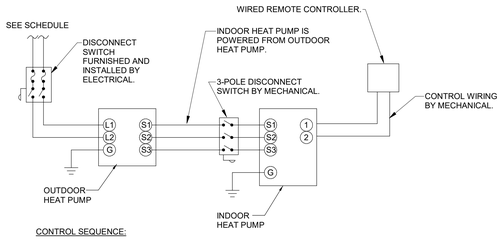
UNOCCUPIED MODE:
THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED DURING UNOCCUPIED HOURS. THE SPACE TEMPERATURE SENSOR SHALL CYCLE ON COMPRESSOR TO MAINTAIN COOLING SETPOINT (80° F - ADJUSTABLE). UPON AMBIENT TEMPERATURE REACHING 40°F, THE HEAT PUMP COMPRESSOR SHALL BE LOCKED OUT AND THE ELECTRIC HEATER SHALL BE STAGED TO MAINTAIN TEMPERATURE SET POINT. HEATING SETPOINT (60°F - ADJUSTABLE).

ECONOMIZER:
THE UNIT WILL MEASURE THE DRY BULB SUPPLY AIR TEMPERATURE AND THE DRY BULB OUTDOOR AIR TEMPERATURE AND ECONOMIZER WILL BE ENABLED WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW THE DRY BULB CHANGE OVER SETPOINT (55°F). WHEN ECONOMIZING IS ENABLED AND THE UNIT IS OPERATING IN COOLING MODE, THE OUTSIDE AIR DAMPER AND RETURN AIR DAMPER WILL BE MODULATED IN TANDEM TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. IF THE ECONOMIZER CANNOT MAINTAIN SPACE TEMPERATURE, THE COMPRESSORS SHALL BE ENABLED.

TO PREVENT SPACE OVER-PRESSURIZATION, THE BAROMETRIC RELIEF DAMPER AT THE AC UNIT SHALL OPEN DURING ECONOMIZER MODE.

CONTROL SYSTEM GENERAL NOTES

1. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT QUANTITY AND LOCATIONS OF 120 V CONTROLS POWER NECESSARY TO CONTROL PANELS THROUGHOUT PROJECT.
2. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT QUANTITY AND LOCATIONS OF 120 V CONTROL POWER NECESSARY TO POWER AUTOMATIC CONTROL VALVES, AUTOMATIC DAMPER ACTUATORS, AND SMOKE DAMPER ACTUATORS.
3. PROVIDE ALL NECESSARY RELAYS, SWITCHES, SENSORS, LOW VOLTAGE CONTROL WIRING, ACTUATORS, ETC. FOR A COMPLETE AND FUNCTIONAL CONTROLS SYSTEM.

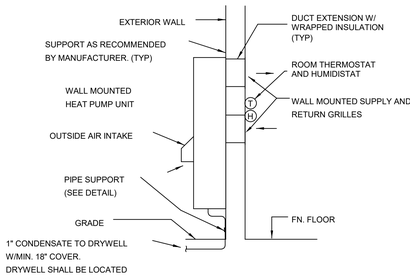


CONTROL SEQUENCE:

THE AC UNIT SHALL BE CONTROLLED BY A WIRED WALL MOUNTED REMOTE CONTROLLER. THE CONTROLLER SHALL CYCLE ON COMPRESSOR(S) TO MAINTAIN COOLING SETPOINT (74°F - ADJUSTABLE) AND HEATING SETPOINT (70°F - ADJUSTABLE). ALL MINI-SPLIT AC UNITS THAT SERVE ELECTRICAL AND IT ROOMS SHALL NOT SET THEIR TEMPERATURE BACK AT NIGHT. FOR ALL MINI-SPLIT AC UNITS THAT SERVE OFFICES, CLASSROOMS, ETC. SHALL SET THEIR TEMPERATURE BACK TO 4°F ABOVE SETPOINT IN SUMMER AND 4°F BELOW SETPOINT IN THE WINTER. COORDINATE WITH OWNER TO ESTABLISH OCCUPIED / UNOCCUPIED SCHEDULES.

DUCTLESS SPLIT SYSTEM CONTROLS

NO SCALE



CONTROL SEQUENCE

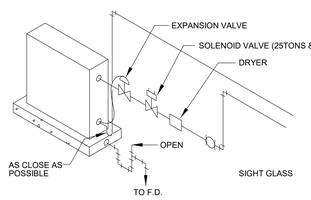
OCCUPIED MODE:
THE ROOM MOUNTED PROGRAMABLE THERMOSTAT SHALL INITIATE STARTING CONTROLS. THE SUPPLY FAN SHALL START SUBJECT TO THE SMOKE DETECTOR INTERLOCK SHALL MONITOR THE SPACE TEMPERATURE SENSOR TO CYCLE ON COMPRESSOR FOR COOLING TO MAINTAIN COOLING SETPOINT (75°F - ADJUSTABLE). COMPRESSOR AND ELEC STRIP HEAT TO STAGE AS REQUIRED TO MAINTAIN HEATING SETPOINT (72°F - ADJUSTABLE). THE OSA DAMPER SHALL REMAIN CLOSED.

UNOCCUPIED MODE:
THE SPACE TEMPERATURE SENSOR SHALL CYCLE THE SUPPLY FAN, DX COOLING, HEATING AND ELEC HEAT TO MAINTAIN THE UNOCCUPIED SPACE SETPOINT (60°F HEATING / 80°F COOLING - ADJUSTABLE). THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED.

DEHUMIDIFICATION SEQUENCE:
UPON A RISE IN SPACE HUMIDITY (ABOVE 60% RH), THE AC UNIT SHALL GO INTO FULL COOLING AND STAGE ON THE HOT GAS REHEAT COIL TO MAINTAIN A SPACE TEMPERATURE OF 75°F. (ADJUSTABLE). UPON THE HUMIDITY FALLING BACK BELOW SETPOINT THE UNIT SHALL RETURN TO NORMAL OPERATION.

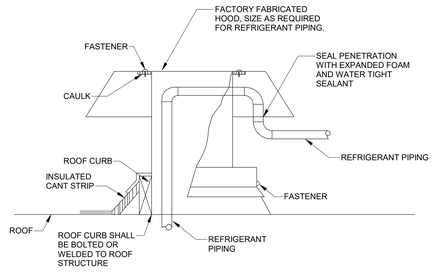
WALL-HUNG CLASSROOM UNIT DETAIL

NO SCALE



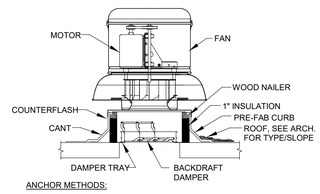
DX COIL PIPING DETAIL

NO SCALE



PIPE PENETRATION THRU ROOF

NO SCALE

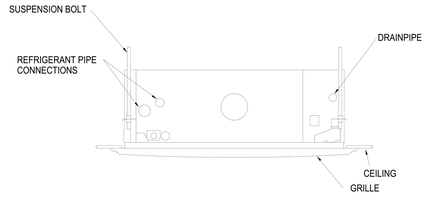


ANCHOR METHODS:

1. ANCHOR CURB TO ROOF STRUCTURE WITH 1/4"-14 SELF DRILLING SCREWS. MINIMUM OF 1/2" OF THREADS SHALL BE SHOWING ON THE UNDERSIDE OF THE STRUCTURE. PROVIDE MINIMUM (4) FASTENERS PER SIDE, (TOTAL OF 16), EQUALLY SPACED ON EACH SIDE.
2. ANCHOR FAN TO CURB WITH A MINIMUM OF (4) 1/4"-14 SELF DRILLING SCREWS ON EACH SIDE OF THE FAN (TOTAL OF 16 FASTENERS). ONE FASTENER SHALL BE INSTALLED 3" FROM EACH END ON THE SIDE OF THE FAN AND THE OTHER TWO SHALL BE EQUALLY SPACED ALONG THE SIDE.

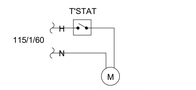
CENTRIFUGAL ROOF FAN INSTALLATION DETAIL

NO SCALE



INDOOR CEILING CASSETTE UNIT DETAIL

NO SCALE



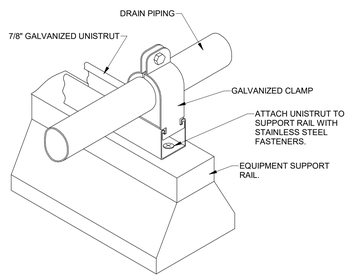
FAN MOTOR

EXHAUST FAN CONTROLLED BY T'STAT.

EXHAUST FAN SHALL ENERGIZE AND RESPECTIVE AUTO DAMPER SHALL OPEN WHEN TEMPERATURE EXCEDES ROOM SETPOINT (85 F ADJUSTABLE). FAN SHALL DE-ENERGIZE AND DAMPER SHALL CLOSE ONCE ROOM SET POINT IS REACHED

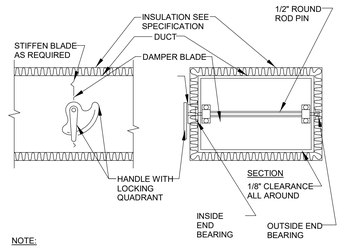
EXHAUST FAN CONTROLS

NO SCALE



PIPING SUPPORT DETAIL

NO SCALE

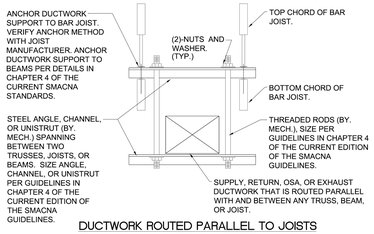


NOTE:

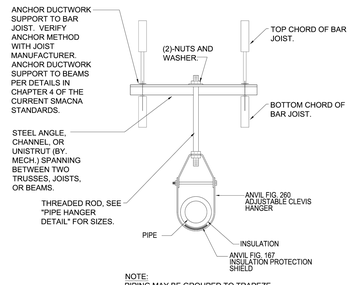
1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.
3. MANUAL DAMPERS SHALL BE EQUAL TO RUSKIN MD35 (FOR RECTANGULAR DUCTS) AND SHALL BE EQUAL TO RUSKIN MDRS25 (FOR ROUND DUCTS).

MANUAL DAMPER DETAIL

NO SCALE

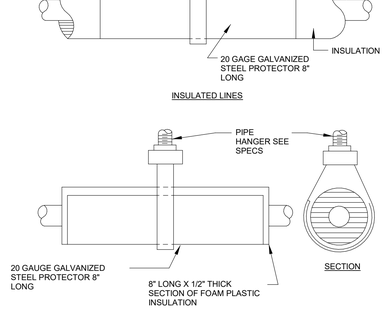


DUCTWORK ROUTED PARALLEL TO JOISTS



NOTE:
PIPING MAY BE GROUPED TO TRAPEZE HANGERS. SEE SPECIFICATION SECTION 15050.

PIPING ROUTED PARALLEL TO JOISTS



REFRIGERANT PIPING HANGER DETAIL

NO SCALE

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LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

No. 24747 PROFESSIONAL 07-16-24 ENGINEER WADE STEWART

SHEET TITLE:
MECHANICAL DETAILS AND CONTROLS

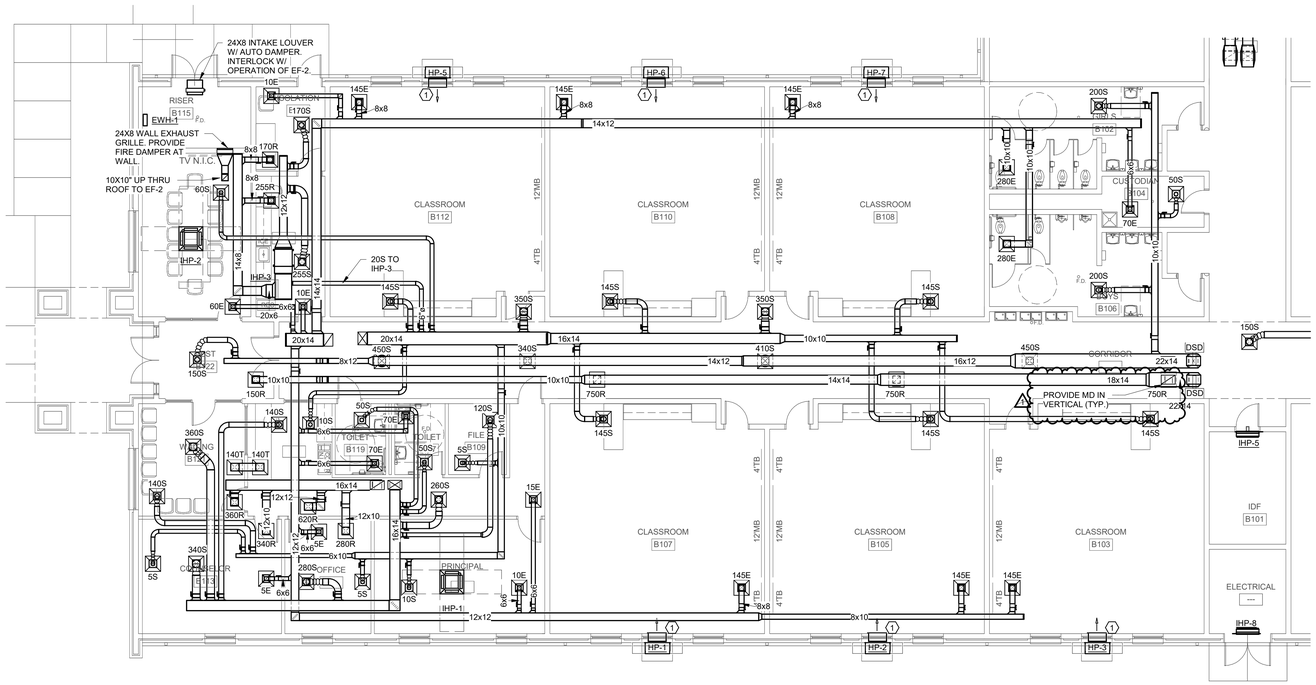
PROJ. MGR.:	–	JWS
DRAWN:		BDL
DATE:	–	07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO: M0.3

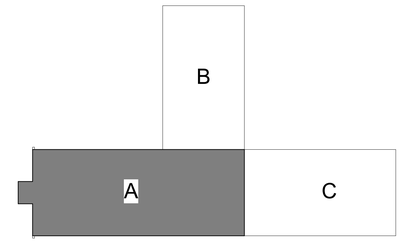


1 MECHANICAL - FLOOR PLAN - PART A

1/8" = 1'-0"

MECHANICAL KEYED NOTES:

1. WALL HUNG UNIT WITH STACKED SIDEWALL SUPPLY AND RETURN GRILLES. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.



KEY PLAN

SCALE: N.T.S.

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SUMTER COUNTY BOARD OF EDUCATION

BRADLEY STEWART No. 24747 PROFESSIONAL 07-16-24 ENGINEER

SHEET TITLE:
MECHANICAL - FLOOR PLAN - PART A

PROJ. MGR.: –	JWS
DRAWN:	BDL
DATE: –	07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO: M1.0

MECHANICAL KEYED NOTES:

1. WALL HUNG UNIT WITH STACKED SIDEWALL SUPPLY AND RETURN GRILLES. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.

2. CONTRACTOR TO COORDINATE THE INSTALLATION OF UNIT ON GRADE AND PAD WITH ARCHITECTURAL EXTERIOR FINISHES. DUCTWORK TO RUN UP EXTERIOR AND PENETRATE WALL WHERE ARCHITECT CALLS OUT FOR SPECIFIED GAP IN FINISHES. COORDINATE WITH ARCH AND GC.

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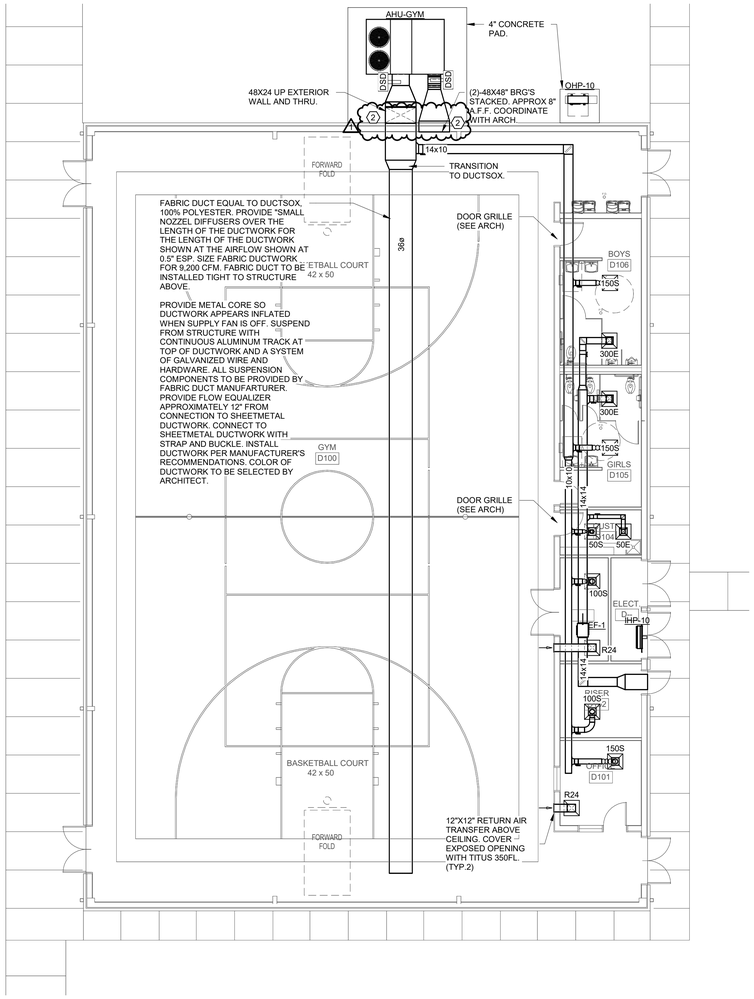
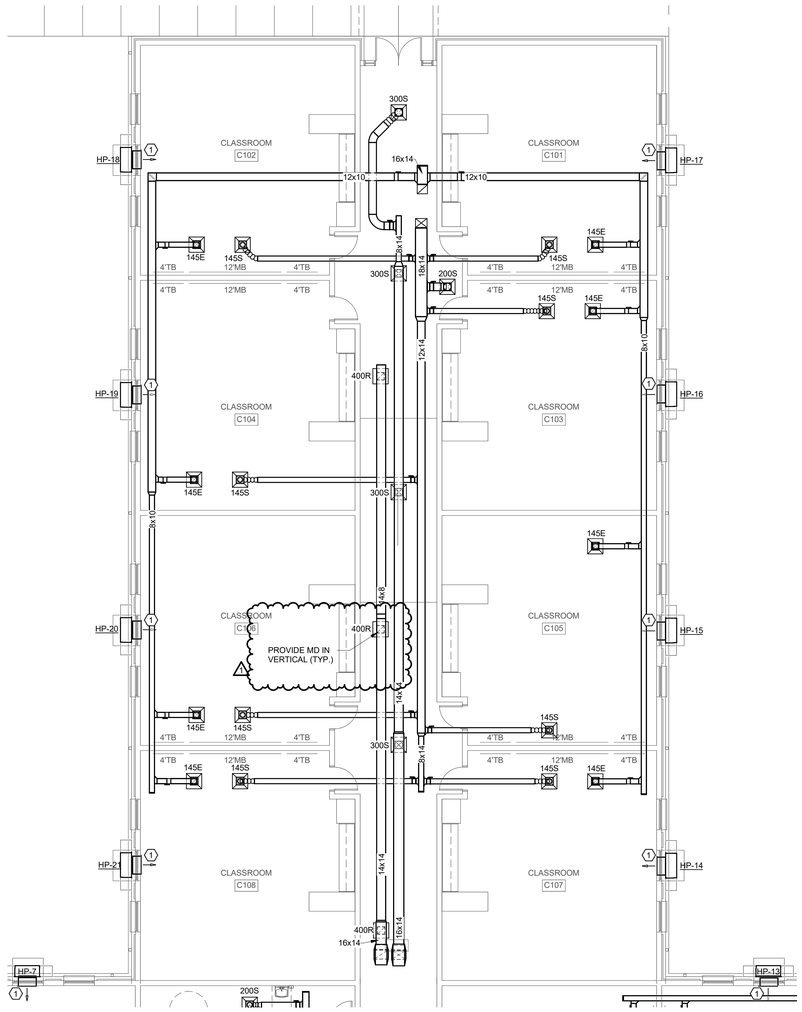
LATHAN ARCHITECTS



2 MECHANICAL - GYM FLOOR PLAN
1/8" = 1'-0"



1 MECHANICAL - FLOOR PLAN - PART B
1/8" = 1'-0"

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SHEET TITLE:
MECHANICAL - FLOOR PLAN - PART B

PROJ. MGR.: –		JWS
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DATE: –		07/16/24
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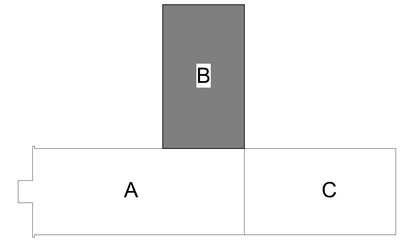
1	7/16/24	Addendum #1

JOB NO. 24-38

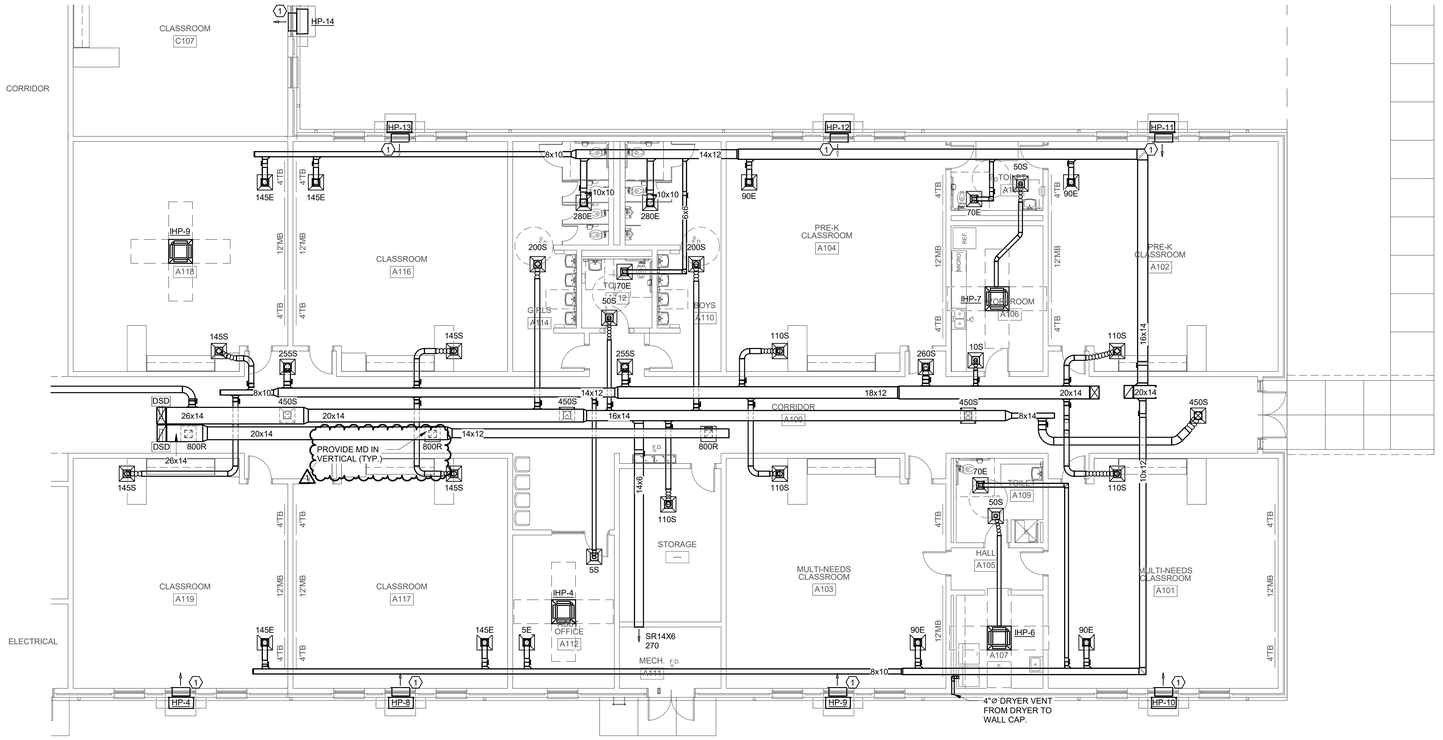
SHEET NO:
M1.1



KEY PLAN
SCALE: N.T.S.

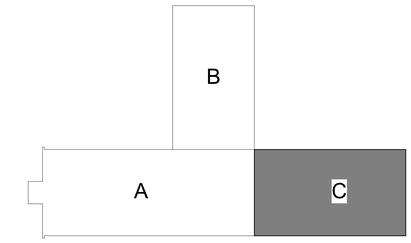
MECHANICAL KEYED NOTES:

1. WALL HUNG UNIT WITH STACKED SIDEWALL SUPPLY AND RETURN GRILLES. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.



1 MECHANICAL - FLOOR PLAN - PART C

1/8" = 1'-0"



KEY PLAN

SCALE: N.T.S.

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SUMTER COUNTY BOARD OF EDUCATION

ALABAMA No. 24747 PROFESSIONAL 07-16-24 ENGINEER WAYNE STEWART

SHEET TITLE:
MECHANICAL - FLOOR PLAN - PART C

PROJ. MGR.: –	JWS
DRAWN:	BDL
DATE: –	07/16/24

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1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO: M1.2

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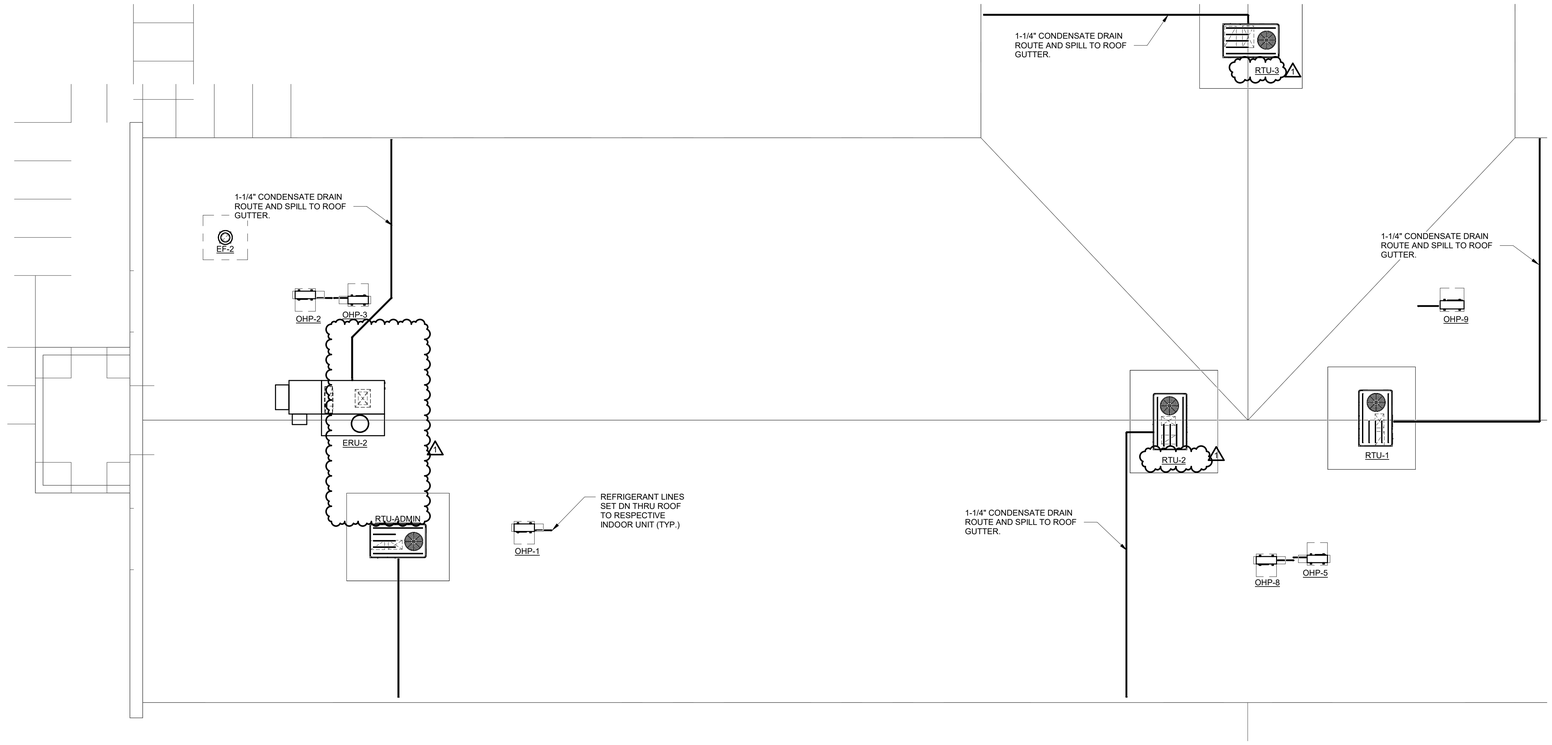
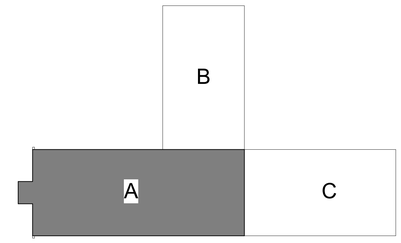


1 MECHANICAL - ROOF PLAN - PART A
1/8" = 1'-0"



KEY PLAN
SCALE: N.T.S.

LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

BRADE L. STEWART
No. 24747
PROFESSIONAL
07-16-24
ENGINEER
STATE OF ALABAMA

SHEET TITLE:
MECHANICAL - ROOF PLAN - PART A

PROJ. MGR.: –	JWS
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DATE: –	07/16/24

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1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
M2.0

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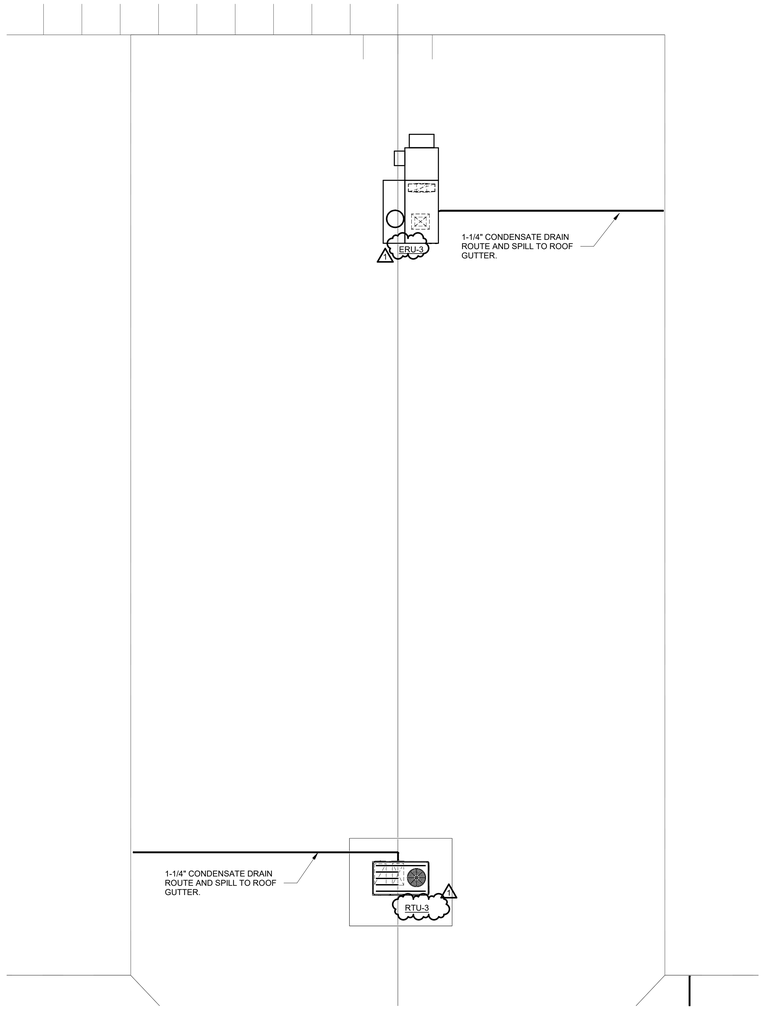
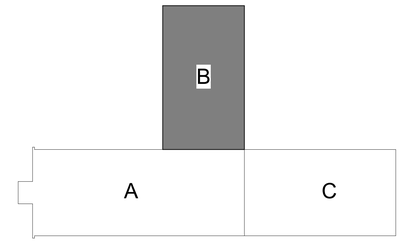


1 MECHANICAL - ROOF PLAN - PART B
1/8" = 1'-0"



KEY PLAN
SCALE: N.T.S.

LATHAN ARCHITECTS

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SHEET TITLE:
MECHANICAL - ROOF PLAN - PART B

PROJ. MGR.: –		JWS
DRAWN:		BDL
DATE: –		07/16/24
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JOB NO. 24-38

SHEET NO:
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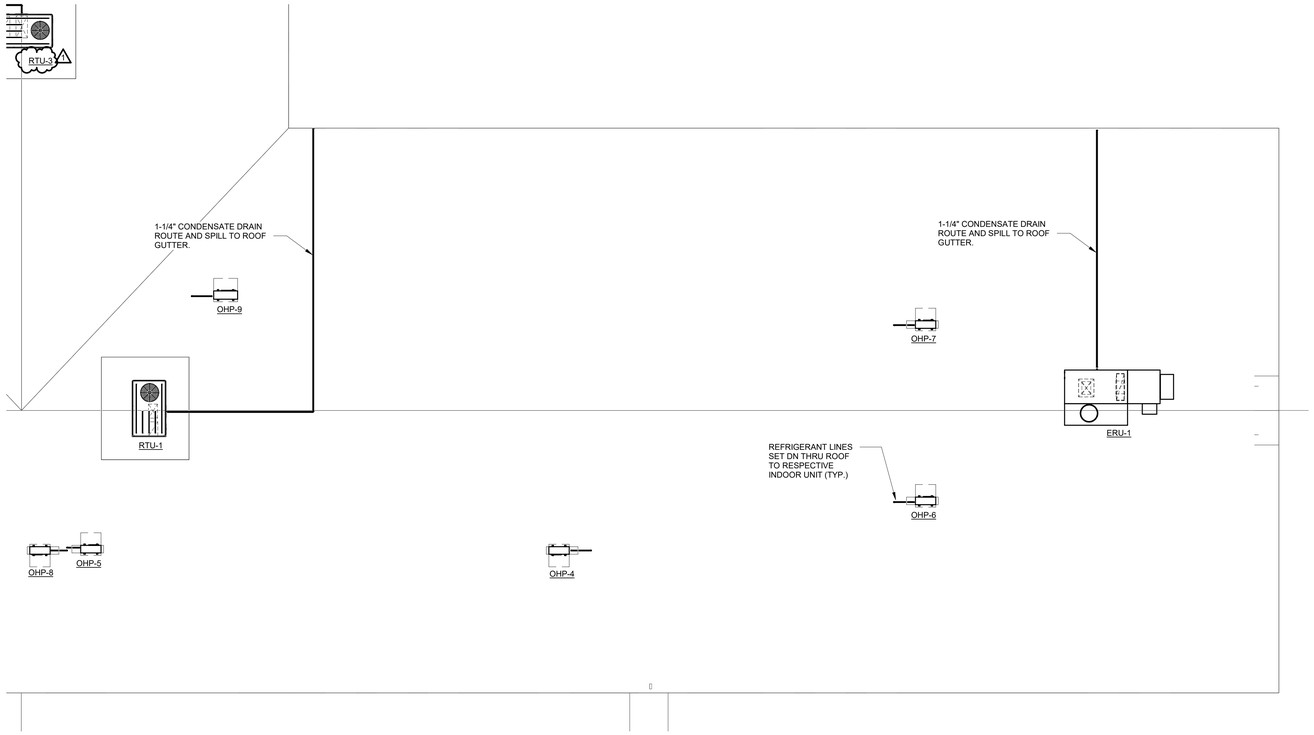
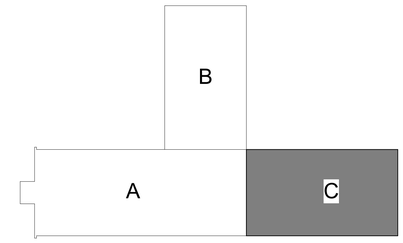


1 MECHANICAL - ROOF PLAN - PART C
1/8" = 1'-0"



KEY PLAN
SCALE: N.T.S.

LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

BRADLEY LEE STEWART
No. 24747
PROFESSIONAL
07-16-24
ENGINEER
BRADLEY STEWART

SHEET TITLE:
MECHANICAL - ROOF PLAN - PART C

PROJ. MGR.: –		JWS
DRAWN:		BDL
DATE: –		07/16/24
REVISIONS		
1	7/16/24	Addendum #1

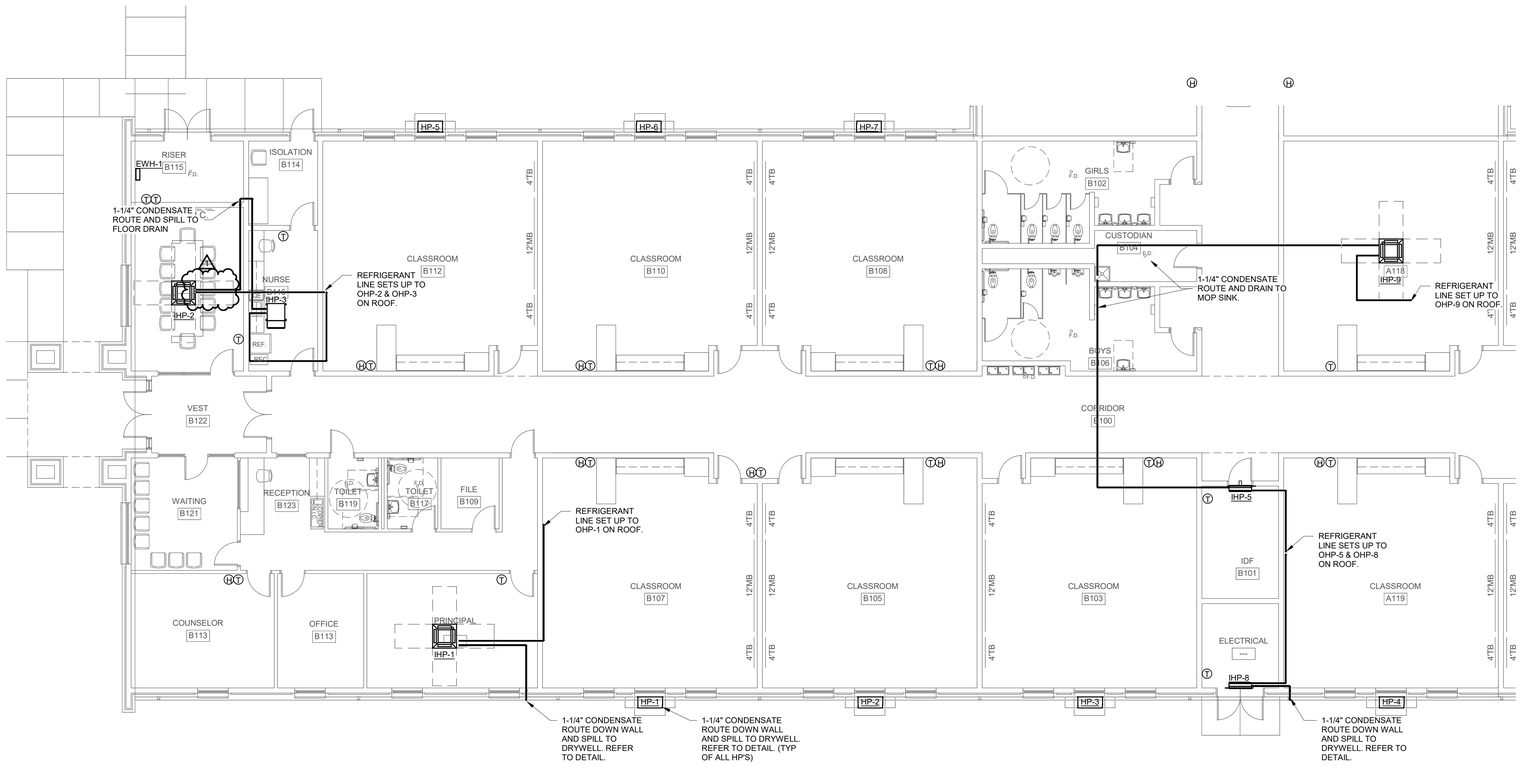
JOB NO. 24-38

SHEET NO:
M2.2

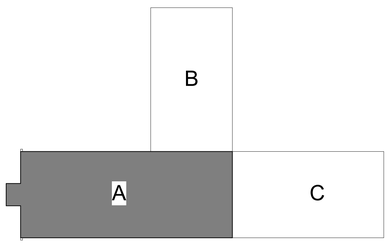
Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number :
50181596

LATHAN
ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION



1 MECHANICAL PIPING - FLOOR PLAN - PART A
1/8" = 1'-0"



KEY PLAN
SCALE: N.T.S.

SHEET TITLE:
MECHANICAL PIPING - FLOOR PLAN - PART A

PROJ. MGR.: –	JWS
DRAWN:	BDL
DATE: –	07/16/24

REVISIONS

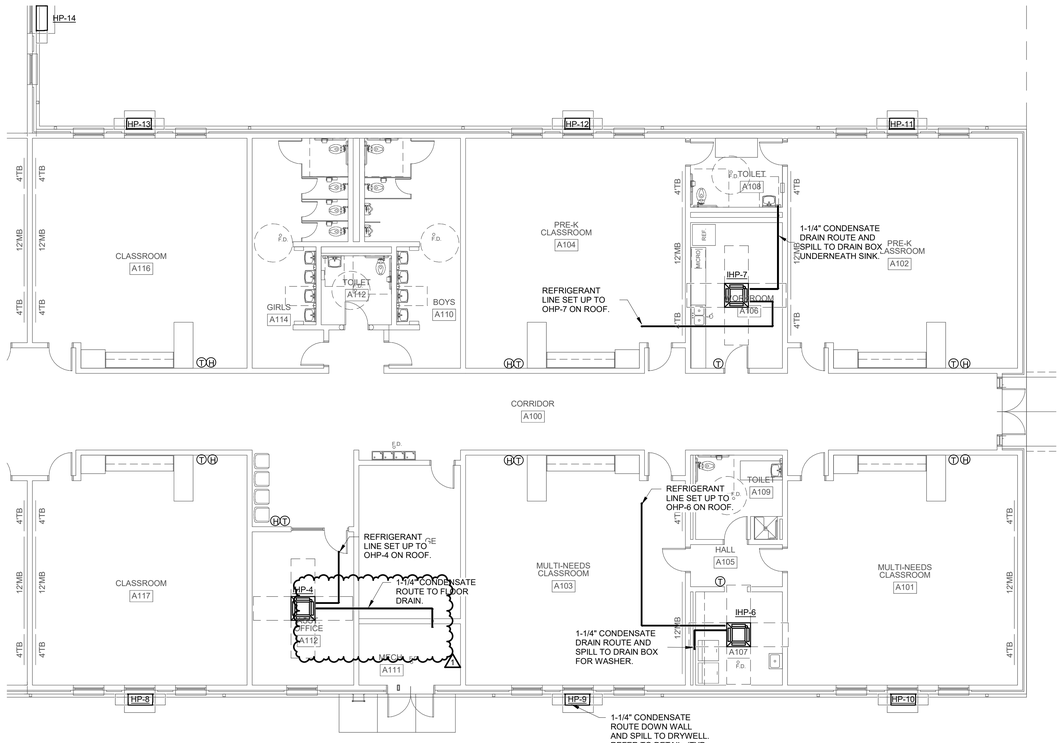
1	7/16/24	Addendum #1

JOB NO. 24-38

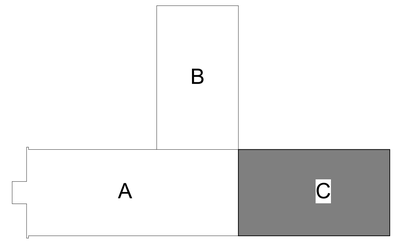
SHEET NO:
M3.0

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com

Project Number :
50181596



1 MECHANICAL PIPING - FLOOR PLAN - PART C
1/8" = 1'-0"



KEY PLAN
SCALE: N.T.S.

LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

No. 24747
PROFESSIONAL
07-16-24
ENGINEER
JOE STEWART

SHEET TITLE:
MECHANICAL PIPING - FLOOR PLAN - PART C

PROJ. MGR.: –		JWS
DRAWN:		BDL
DATE: –		07/16/24
REVISIONS		
1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
M3.2

FIRE PROTECTION GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BID. CONTRACTOR SHALL VERIFY EXACT SIZE, LOCATION, ELEVATION OF EXISTING STRUCTURE, CEILINGS, MECHANICAL, AND ELECTRICAL PRIOR TO INSTALLING ANY NEW PIPE.
2. CONTRACTOR SHALL COORDINATE ALL PIPE ROUTING TO AVOID CONFLICTS WITH ALL STRUCTURAL, ELECTRICAL, AND MECHANICAL FEATURES OF THE BUILDING.
3. ALL HORIZONTAL PIPING IS RUN ABOVE THE CEILING OR IN JOIST SPACE. ALL PIPING SHALL DRAIN DOWN AS REQUIRED BY NFPA 13. PIPING TO BE INSTALLED TO CONCEAL AS MUCH AS POSSIBLE.
4. INSTALL ALL FIRE PROTECTION MATERIALS IN AREAS WITH EXPOSED CEILINGS IN A NEAT FIRST CLASS MANNER. ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH INDUSTRY BEST PRACTICES. PIPING SHALL BE INSTALLED PARALLEL AND/OR PERPENDICULAR TO BUILDING STRUCTURE UNLESS INDICATED OTHERWISE.
5. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING PROJECT ENGINEERS FOR INSPECTION AND TESTING. PROVIDE A MINIMUM OF A WEEKS NOTICE.
6. CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR NEW WORK AREAS, CEILING HEIGHTS, SECTIONS, AND RATED WALLS.
7. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF PIPING WEIGHT AND LOCATION PRIOR TO INSTALLATION OF ANY PIPE.
8. PIPING LAYOUT AND SIZING SHOWN ON PLANS IS DIAGRAMMATIC AND SHOWN FOR SPACE REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR LAYOUT SHOP DRAWINGS, CALCULATIONS, SUBMITTAL DATA, TESTING, OWNER TRAINING AND CERTIFYING SYSTEM MEETS NFPA 13 AND CONTRACT DOCUMENTS.
9. CONTRACTOR SHALL OBTAIN APPROVAL FROM ARCHITECT PRIOR TO INSTALLING ANY SPRINKLER HEADS DIFFERENT FROM THE SPECIFIED SPRINKLERS HEADS.
10. CONTRACTOR SHALL OBTAIN APPROVAL OF "SPRINKLER HEAD TYPE" FROM ARCHITECT PRIOR TO INSTALLING ANY SPRINKLER HEADS.
11. CONTRACTOR SHALL PAINT ALL EXPOSED PIPING TO MATCH STRUCTURE. COORDINATE EXACT COLOR WITH ARCHITECT.

FIRE PROTECTION SHOP DRAWINGS AND SUBMITTALS

1. PROVIDE A NFPA 13 COMPLIANT SYSTEM TO PROVIDE COVERAGE TO NEW WORK AREA. CONTRACTOR RESPONSIBLE TO PROVIDE DETAILED SHOP DRAWINGS AND CALCULATIONS COMPLETE.
2. SHOP DRAWINGS SHALL INCLUDE:
   - A. A REFLECTED CEILING PLAN INDICATING LOCATION OF SPRINKLER HEADS, LIGHTS, CEILING DEVICES, GRILLES, AUDIO VISUAL, AND ANY DEVICES ATTACHED TO LIFT OUT CEILINGS. ALL SPRINKLER HEADS IN LAY-IN CEILINGS TO BE CENTERED IN TILES. COORDINATE EXACT LOCATION OF SPRINKLER HEADS IN HARD CEILINGS WITH ARCHITECT AND ENGINEER.
   - B. PREPARE A WORKING PIPE SHOP DRAWING BASED ON HYDRAULIC CALCULATIONS. THE PIPING DRAWINGS SHALL INDICATE THE ELEVATION OF THE PIPE, THE CONFIGURATION OF THE PIPING AND HANGERS, SIZE OF THE PIPE AND COORDINATION OF PIPING WITH OTHER DISCIPLINES, STRUCTURE AND DUCTWORK.
   - C. HYDRAULIC CALCULATIONS ARE TO BE PREPARED USING A FLOW TEST WITHIN 90 DAYS.
   - D. THE CONTRACTOR IS RESPONSIBLE FOR INCORPORATING LOCAL AUTHORITY HAVING JURISDICTION COMMENTS FOR COMPLIANCE.
   - E. ALL ADDITIONAL MATERIALS TO BE INDICATED ON SHOP DRAWINGS.
   - F. ALL LOW-POINT DRAIN DOWN LOCATION AND PENETRATIONS OF BUILDING STRUCTURE TO BE INDICATED ON SHOP DRAWINGS.
3. CONTRACTOR SHALL BE LICENSED IN THE STATE IN WHICH THE WORK IS PREFORMED. THE CONTRACTOR SHALL BE A NICET LEVEL III OR LEVEL IV OR SPECIAL HAZARD SUPPRESSION SYSTEMS. THE NICET LEVEL III DESIGNER SHALL BE AN EMPLOYEE OF FIRE PROTECTION CONTRACTOR.
4. ALL ELECTRICAL FIRE ALARM REQUIREMENTS TO BE COORDINATED WITH THE ELECTRICAL THE FLOW AND TAMPER SWITCHES TO BE PROVIDED UNDER FIRE PROTECTION CONTRACT. CONDUIT, ALARM WIRING AND PROGRAMMING THE RESPONSIBILITY OF THE FIRE ALARM CONTRACT AND SHALL BE COORDINATED WITH ELECTRICAL. NICET LEVEL III DESIGNER SHALL INSPECT PROJECT.
5. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITHIN 45 DAYS PRIOR TO THE START OF THE SPRINKLER SYSTEM INSTALLATION.

FIRE PROTECTION DESIGN ANALYSIS

REFER TO ARCHITECTURAL PLANS FOR COMPLIANCE NFPA 101
TYPE OF CONSTRUCTION: REFER TO ARCHITECTURAL

OCCUPANCY: REFERENCE ARCHITECTURAL LIFE SAFETY PLAN

FIRE DESIGN CODES /STANDARDS

APPLICABLE CODES AND STANDARDS:
INTERNATIONAL BUILDING CODE (IBC)
INTERNATIONAL FIRE CODE (IFC)
INTERNATIONAL PLUMBING CODE (IPC)
NATIONAL ELECTRIC CODE (NEC)
NATIONAL FIRE ALARM CODE NFPA 72
NATIONAL ENERGY CODE
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13,20,24,101

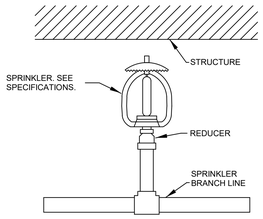
FIRE PROTECTION LEGEND

FIRE MAIN (F)	F — F
FIRE DRAIN LINE	FD — FD
BALL VALVE	
OS&Y VALVE (WITH TAMPER SWITCH)	TS — COORDINATE WITH ELECTRICAL FIRE ALARM SIGNAL TO BUILDING ALARM PANEL
FLOW SWITCH	FS — COORDINATE WITH ELECTRICAL FIRE ALARM SIGNAL TO BUILDING ALARM PANEL
	PIPE DOWN
	PIPE UP
GPM	GALLONS PER MINUTE
PSI	POUNDS PER SQUARE INCH
S/P	FULLY RECESSED PENDENT SPRINKLER HEAD (PENDENT HEADS SHALL BE WHITE W/ WHITE ESCUTCHEON UNLESS APPROVED BY ARCHITECT)
S/U	UPRIGHT SPRINKLER HEAD

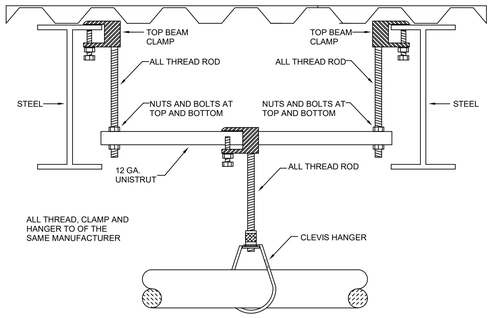
ARCHITECT TO SELECT COLORS ON ALL SPINKLER HEADS

FIRE PROTECTION HYDRAULIC DEMANDS

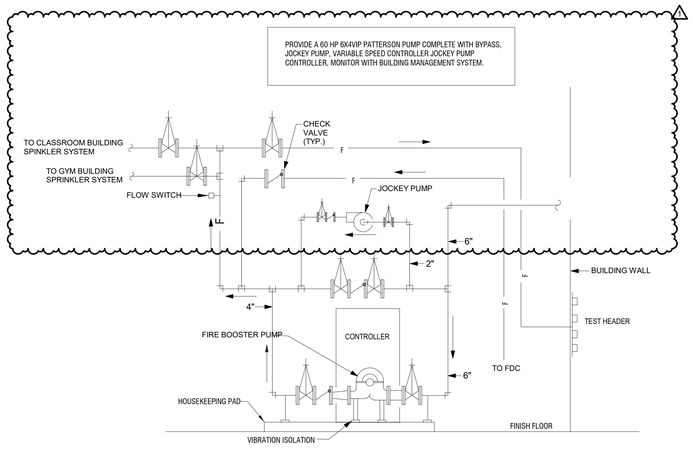
1. SPRINKLER PROTECTION
   - A. ALL OFFICES, TEACHER WORKROOMS, LOBBIES, VESTIBULES, CLASSROOMS, GYMNASIUMS, CAFETERIAS, TOILETS, COMMON AREAS, CORRIDORS: LIGHT HAZARD 0.10 GPM OVER HYDRAULICALLY MOST REMOTE 1500 SQ. FT.
   - B. MECHANICAL EQUIPMENT ROOMS, TRANSFORMER ROOMS, GENERAL PURPOSE STORAGE LESS THAN 100 SQ. FT.: ORDINARY HAZARD, GROUP 2, 0.20 GPM OVER HYDRAULICALLY MOST REMOTE 2000 SQ. FT.
   - C. GENERAL STORAGE, STORAGE HEIGHT LIMIT LESS THAN 12FT, LIMITED COMBUSTIBLES LESS THAN 25 GALLONS: ORDINARY GROUP 1 PER NFPA 13, 0.15 GPM PER 1500 SQ. FT.
2. HYDRAULIC CALCULATION SHALL BE CALCULATED WITH 10% SAFETY FACTOR OF SUPPLY CURVE.
3. FLOW DATA TO BE RESPONSIBILITY OF CONTRACTOR.



QUICK RESPONSE UPRIGHT SPRINKLER
NO SCALE

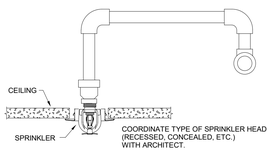


TRAPEZE HANGER DETAIL - UNISTRUT
NO SCALE

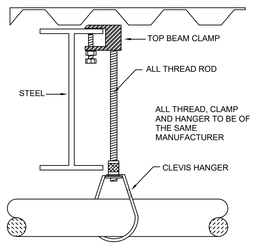


NOTE: FIRE PUMP SHALL BE MONITORED BY CAMPUS BMCS. COORDINATE WITH CONTROLS CONTRACTOR.

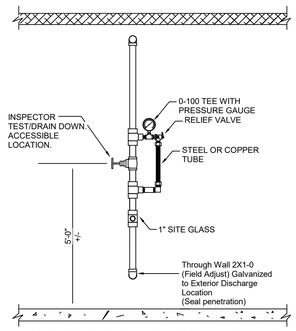
FIRE PUMP
NO SCALE



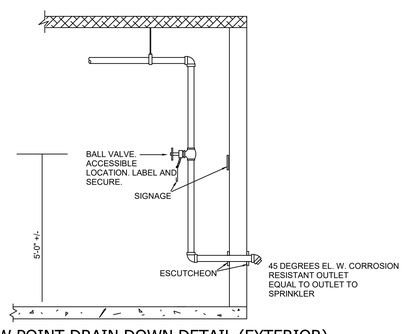
CENTER OF TILE FABRICATION AND INSTALLATION
NO SCALE



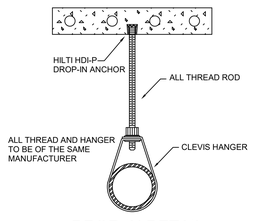
TOP BEAM CLAMP DETAIL
NO SCALE



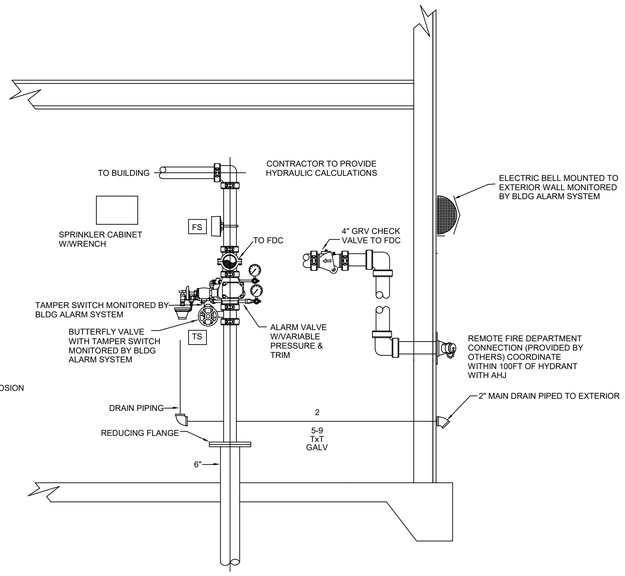
INSPECTOR'S TEST CONNECTION
NO SCALE



LOW POINT DRAIN DOWN DETAIL (EXTERIOR)
NO SCALE



DROP-IN DETAIL
NO SCALE



FIRE SERVICE ENTRY - BUILDING
NO SCALE

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com

Project Number : 50181596

LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

SHEET TITLE:
FIRE PROTECTION SCHEDULES AND DETAILS

PROJ. MGR.: –	SMC
DRAWN:	ZDE
DATE: –	07/16/24

REVISIONS

1	7/16/24	Addendum #1

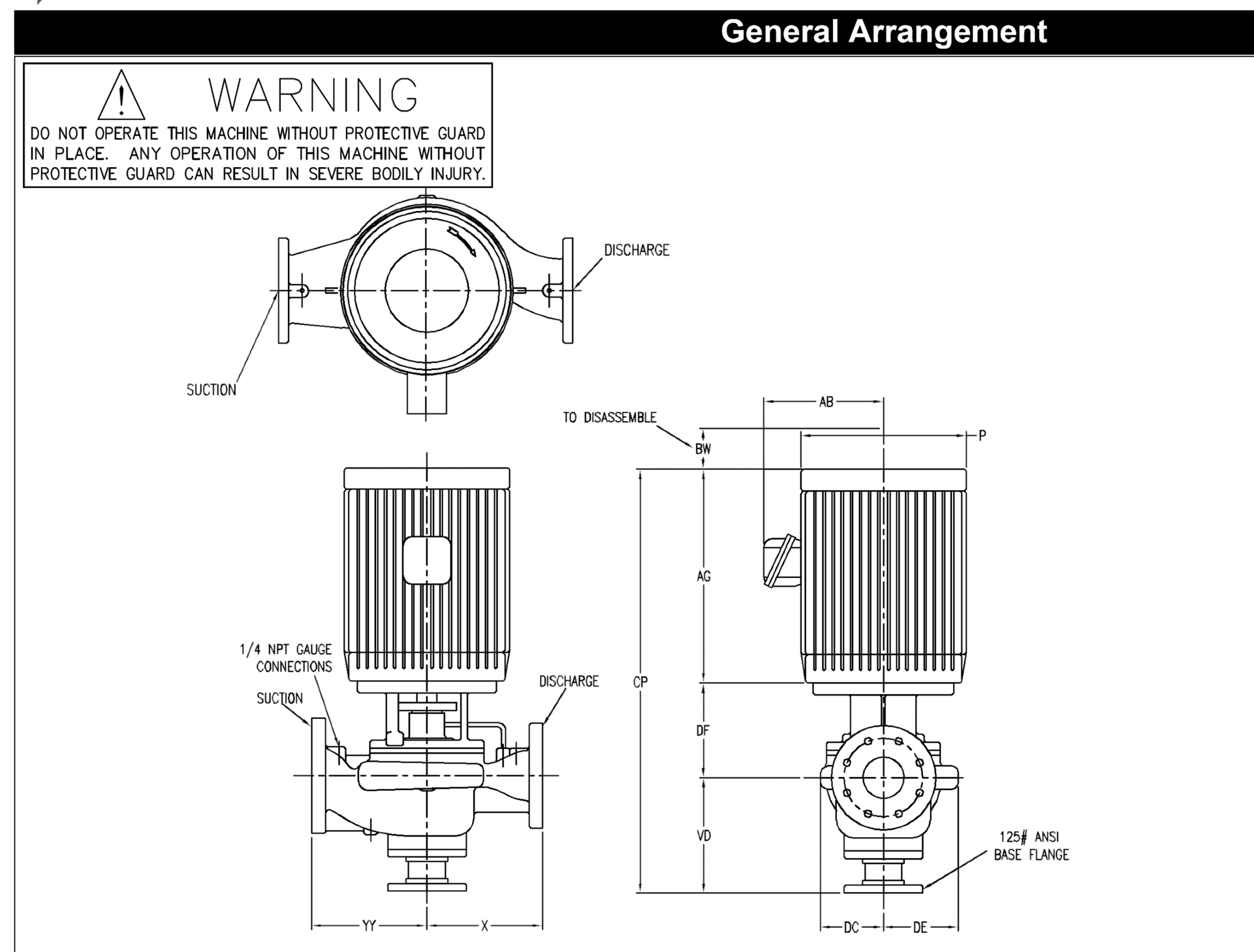
JOB NO. 24-38

SHEET NO:
FP0.1

PENTAIR

Encompass 3.0 - 24.1.1

General Arrangement



X	YY	BW	VD	DF	DC
14.00	14.00	5.00	13.06	9.06	7.00

DE	AG	P	AB	CP	Base Flange Size
8.50	24.00	17.75	13.25	46.13	4.00

NOTES:

Not for construction, installation, or application purposes unless certified.

All dimensions are in inches

Dimensions may vary ± .38" (10mm) due to normal manufacturing tolerances.

See configuration for estimated total weight.

Pump Data	
Series	Inline
Model	4-383-10B
Size	4x6x10B
Flow	750.0 USgpm
Rated Pressure	90.00 psi.g
RPM	3500 rpm
Rotation	Right handed
Liquid Type	Water
Discharge Size	4.00 in
Suction Size	6.00 in
Impeller Diameter	8.00 in
Connection Type	125/125
Base Type	Pipe flange support
-	-
Pump Materials of Construction	
Pump	Bronze fitted with Cast Iron casing
Shaft	Carbon Steel
Motor Data	
Power	60.00 hp
Phase	3
Frequency	60 Hz
Volts	230/460 V
RPM	3560
Frame	326JP
Service Factor	1.15
Enclosure	ODP
Manufacturer	Weg
Site Information	
Elevation	300.0 ft
Temperature	77.00 deg F
Estimated Weights	
Pump	351.0 lb
Driver	475.0 lb

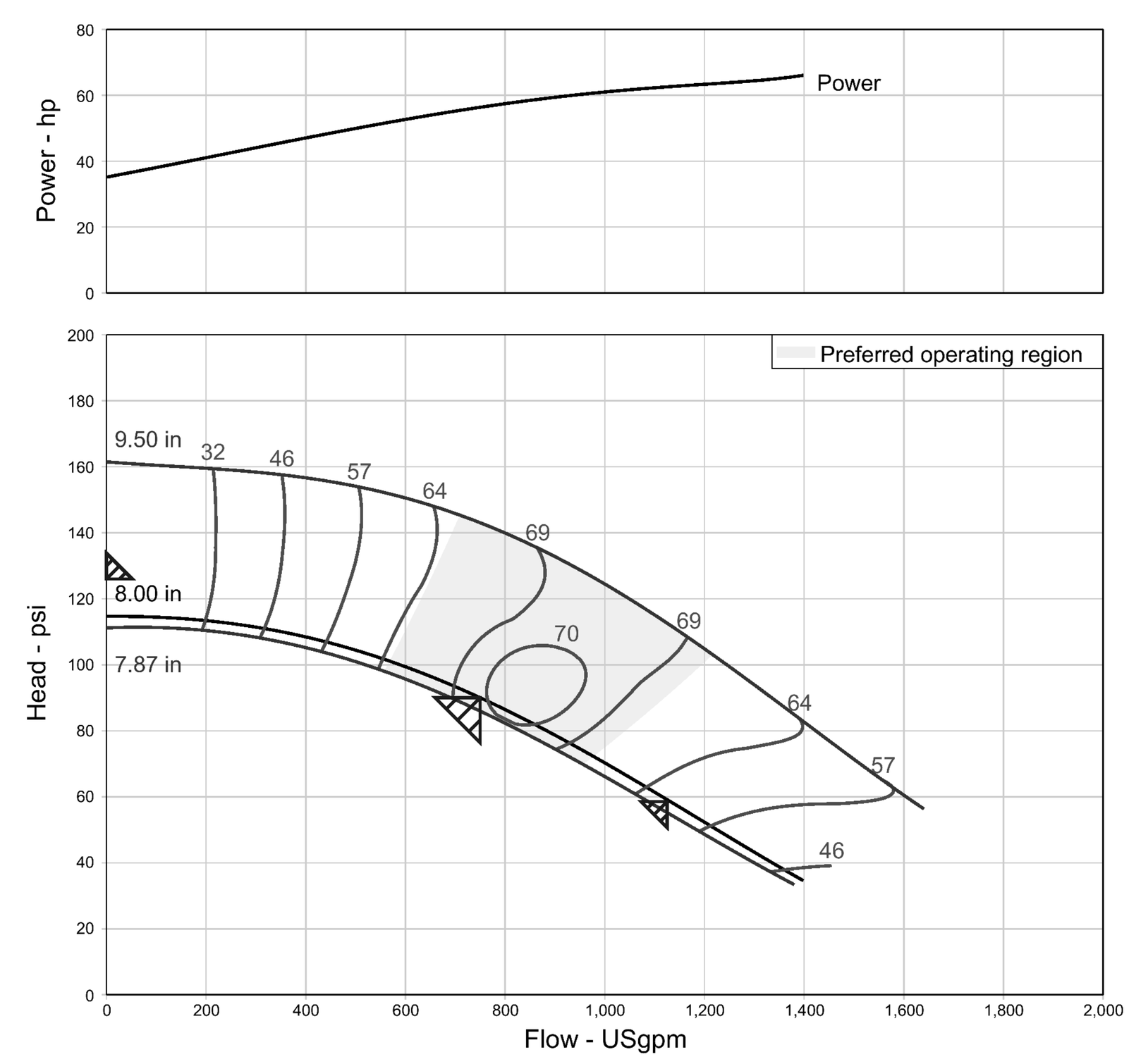
Quote Information	
Customer	Hydro Technologies
Customer Quote	2284946
Job Name	SUMTER CO HIGH SCHOOL
Market	-
Quote Item	001
Quote Date	27 Jun 2024

PENTAIR

Customer : Hydro Technologies
Project name : SUMTER CO HIGH SCHOOL

Pump Performance Curve

Encompass 3.0 - 24.1.1



Item Number / Tags	: 001	Size	: 4-383-10B
Service	:	Stages	: 1
Quantity	: 1	Driver type	: Motor
Quote number	: DEWBERRY ENGINEERING	Frequency	: 60 Hz
Date last saved	: 27 Jun 2024 11:15 AM	Speed	: 3500 rpm
Flow, rated	: 750.0 USgpm	Based on curve number	: 383-4X6X10B-3500
Head, rated	: 90.00 psi	Efficiency	: 69.85 %
Flange rating (suction / discharge)	: 125/125	Max working pressure, allowable	: 175.0 psi.g
Secondary Point (150% of rated flow)	: 1,125.0 USgpm	Max Shutoff Head (Calculated)	: 117.0 psi
Secondary Point (65% of rated head)	: 58.50 psi	Max suction pressure, allowable	: 58.00 psi.g
Max Shutoff per NFPA	: 126.0 psi	Suction pressure, max (user specified)	: 0.00 psi.g
		Pump shutoff w/ suction pressure	: 117.0 psi.g
		Power driver, minimum	: 60.00 hp

FT90 Bid Submittal
BN124049EN

Eaton EPCT Fire

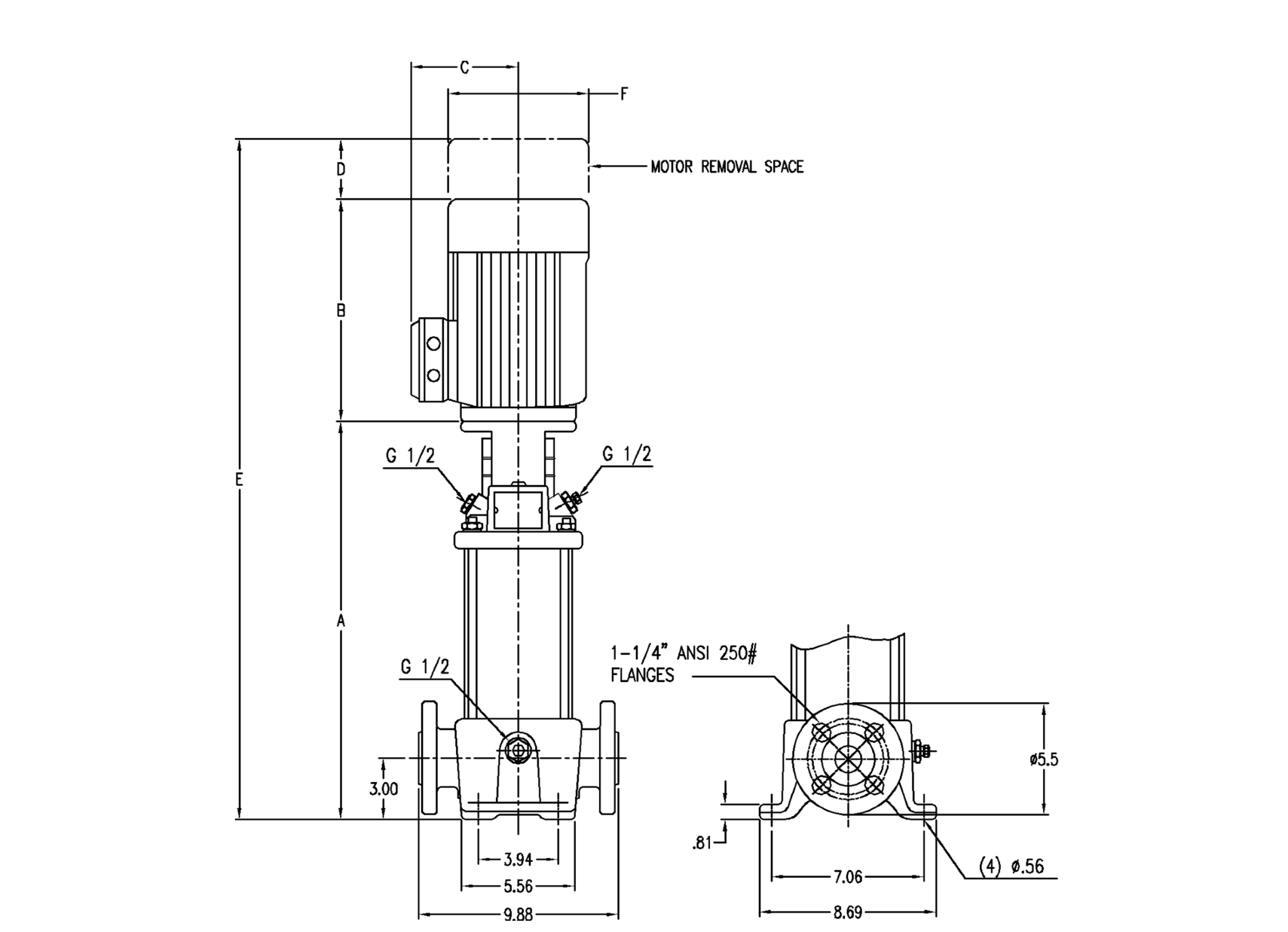
Touchscreen based electric fire pump controllers

EATON
Powering Business Worldwide

PENTAIR

Encompass 3.0 - 24.1.1

General Arrangement



A	B	C	D	E	F
15.50	10.40	7.20	2.10	28.00	7.20

NOTES:

All dimensions are in inches.

Dimensions may vary ± 1/4" (6mm) due to normal manufacturing tolerances

-

-

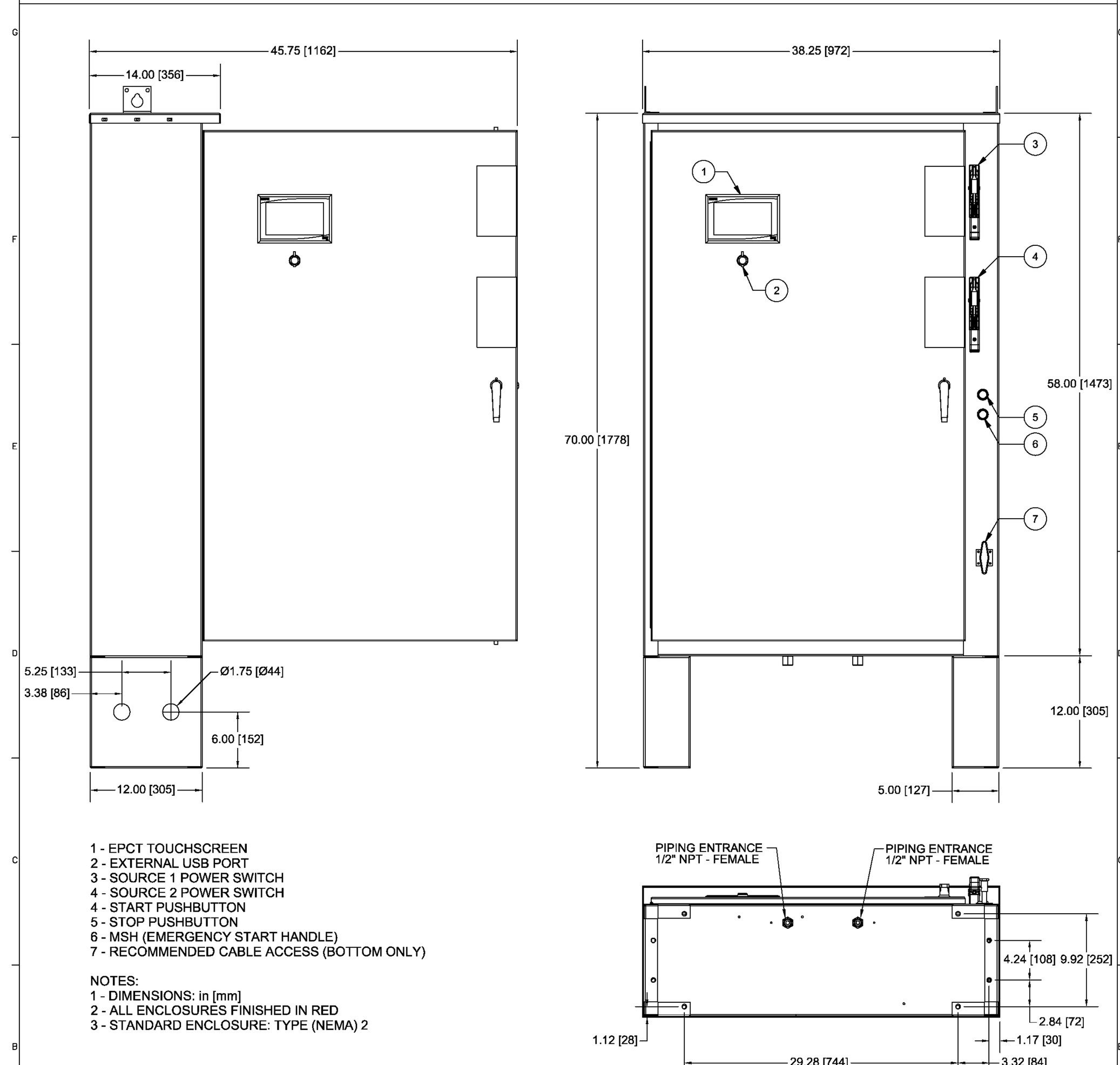
Pump Data	
Model	PVM1-9
Stages	9
Flow	7.50 USgpm
Head	100.0 psi
Rotation	Right Hand
Suc/Disch Size	0.00 in
Connection Suc/Disch	1.25" ANSI 250# flg w/ 1.25" NPT female
Motor Data	
Power	1.00 hp
Phase	3
Frequency	60 Hz
Voltage	230/460
Speed	3500
Frame Size	56CZ
Efficiency	premium
Enclosure	TEFC
Pump Materials of Construction	
Pump Material	Cast Iron
Elastomer	-
Estimated Weights	
Pump	100.0 lb
Motor	0.00 lb
Additional Options	

Quote Information	
Customer	Hydro Technologies
Customer Quote	2284946
Job Name	SUMTER CO HIGH SCHOOL
Market	-
Quote Item	001
Quote Date	27 Jun 2024

PENTAIR

EATON

EPCT FIRE - FT90 SMALL HP
DIMENSIONAL DRAWING - NEMA 2, 3, 3R, 4, 4X, 12



1 - EPCT TOUCHSCREEN
2 - EXTERNAL USB PORT
3 - SOURCE 1 POWER SWITCH
4 - SOURCE 2 POWER SWITCH
4 - START PUSHBUTTON
5 - STOP PUSHBUTTON
6 - MSH (EMERGENCY START HANDLE)
7 - RECOMMENDED CABLE ACCESS (BOTTOM ONLY)

NOTES:
1 - DIMENSIONS: in [mm]
2 - ALL ENCLOSURES FINISHED IN RED
3 - STANDARD ENCLOSURE: TYPE (NEMA) 2

Motor HP	Line voltage	Withstand rating Standard	Intermediate	High	Approximate weight Lbs. (Kg)
5 - 40	200 - 208V	100,000	150,000	200,000	405 (183)
5 - 50	220 - 240V				
5 - 75	380 - 415V				
5 - 100	440 - 480V				
5 - 100	550 - 600V	25,000	100,000		

REVISION	DATE	DRAWING NO.
001	09/14/18	CE16491H17

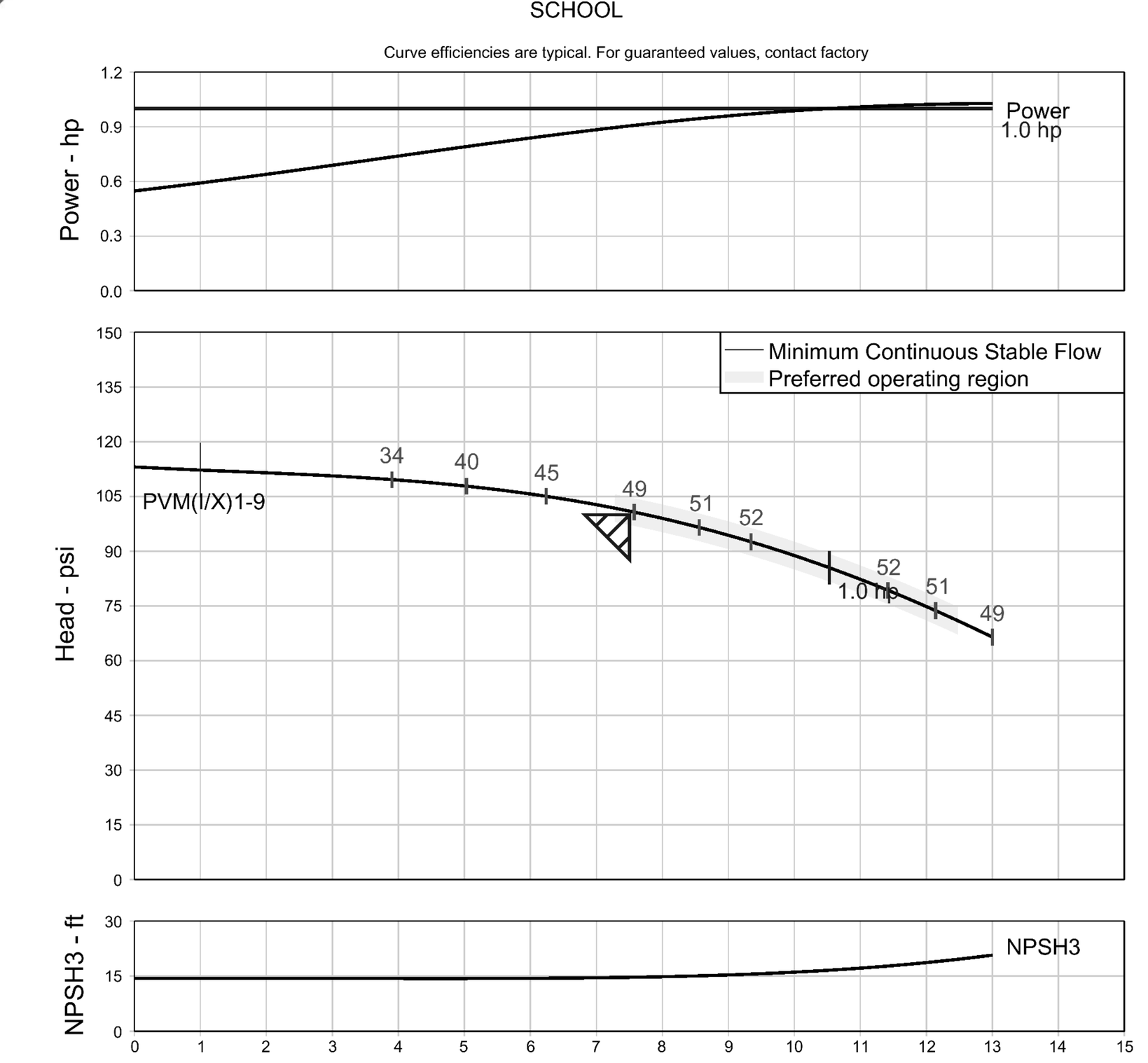
PENTAIR

Customer : Hydro Technologies
Project name : SUMTER CO HIGH SCHOOL

Jockey Pump Curve

Encompass 3.0 - 24.1.1

Curve efficiencies are typical. For guaranteed values, contact factory



Item Number / Tags	: 001	Size	: PVM(X)1-9
Service	:	Stages	: 9
Quantity	: 1	Speed	: 3500 rpm
Quote number	: DEWBERRY ENGINEERING	Based on curve number	: PVM(X)1-9
Date last saved	: 27 Jun 2024 11:15 AM	Efficiency	: 48.83 %
Flow, rated	: 7.50 USgpm	Power, rated	: 0.90 hp
Head, rated	: 100.0 psi	NPSH required	: 14.67 ft
Fluid density	: 0.999 / 0.999 SG	Viscosity	: 1.00 cP
		Cq/Ch/Ce/Cn [ANSI/HI 1.1-1.5-1994]	: 1.00 / 1.00 / 1.00 / 1.00

PENTAIR

MULLER INVESTMENTS, LLC
HYDRO TECHNOLOGIES
1047 SLEDGE DRIVE - MOBILE, ALABAMA 36606
PHONE: - FAX:

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com

Project Number : 50181596

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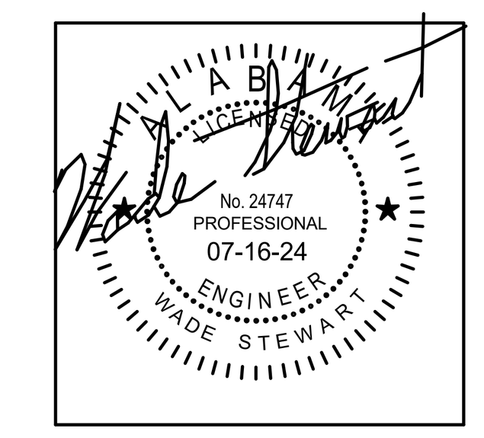


SHEET TITLE:
FIRE PUMP DETAILS

PROJ. MGR.: – SMC
DRAWN: ZDE
DATE: – 07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO.
FP0.2

Jockey Pump Controllers

JOCKEY Touch

Microprocessor Based with Color Touchscreen

Product Description

ACROSS THE LINE

JOCKEY PUMP CONTROLLERS

The JOCKEY Touch - Jockey Pump Controllers operate across-the-line. Full voltage is applied to the motor for starting by the use of a single motor starter. Starting inrush current is approximately 600% of rated full load amperes.

WYE-DELTA (Star-Delta)

JOCKEY PUMP CONTROLLERS

When six or twelve-lead delta connected jockey pump motors are started wye (star) connected, approximately 58% of line voltage is applied to each winding. The motor develops 33% of full-voltage starting torque and draws 33% of normal locked-rotor current from the line. After an adjustable time delay (during which the motor accelerates), it is reconnected for normal operation.

Product Features

Combination Motor Controllers

All JOCKEY Touch controllers are supplied with EATON combination motor controllers, which combine the circuit breaker and overload in one device.

Sealed Rotary Handle Mechanism

The rotary handle mechanism can be padlocked in the OFF position.

XT Power Controls

The JOCKEY Touch - Jockey Pump Controllers incorporate Eaton's XT Power Controls which are designed for the global marketplace. The XT controls carry global ratings, are small in size and are available in a wide variety of operating voltages. They are easy to install and maintain, due to their modular, plug-in design.

Universal Supply Voltage

The controllers will auto-detect three phase voltage supply from 200VAC to 600VAC, 50/60Hz and single phase from 110VAC to 240VAC, 50/60Hz, without the use of a control transformer.

NEMA 2 Enclosures

Enclosures have an oven baked powder paint finish and are supplied with NEMA 2 rating, unless otherwise ordered. Available options include: NEMA 3R, 4, 4X, 12.

Programmable Functions

Inputs, Outputs, Timers and Virtual LED's are programmable via the touchscreen display.

Starting Methods

There are four methods of starting the controller: Auto, Hand, Remote Start and Pump Start.

Diagnostics / Statistics

Eight diagnostics and seven statistics parameters can be monitored.

Alarm Setpoints

Four alarm setpoints can be programmed from the Alarm Setpoints sub-menu.

Color Touchscreen Display

The JOCKEY Touch - Jockey Pump Controllers are supplied with a microprocessor based, color touchscreen. The touchscreen display allows the user to monitor and program functions and values.
Pressure input is provided by a 4-20mA pressure sensor.

Technical Data

ACROSS-THE-LINE (Direct On Line)

JOCKEY PUMP CONTROLLERS

Line Voltage						
200-208V	220-240V	380-415V	440-480V	550-600V	120V-1Ph	240V-1Ph
Motor Horsepower						
1/3-2Hp	1/3-2Hp	1/3-4Hp	1/3-5Hp	1/3-5Hp	1/3-2Hp	1/3-1Hp

WYE-DELTA (Star-Delta)

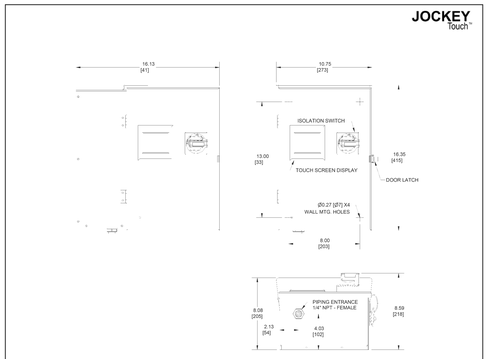
JOCKEY PUMP CONTROLLERS

Line Voltage				
200-208V	220-240V	380-415V	440-480V	550-600V
Motor Horsepower				
1/3-4Hp (0.74-29.42Kw)	1/3-4Hp (0.74-29.42Kw)	1/3-5Hp (0.74-36.78Kw)	1/3-5Hp (0.74-36.78Kw)	1/3-5Hp (0.74-36.78Kw)

Standards & Certification

The JOCKEY Touch - Jockey Pump Controllers meet the requirements of the latest edition of NFPA 20 as well as meeting CE mark requirements. They meet or exceed the requirements of UL 508 (Underwriters Laboratories (UL)) and are approved by (Canadian Standards Association (CSA)).

EATON
Powering Business Worldwide



200-208V		220-240V		380-415V		440-480V		550-600V	
Motor Hp	Withstand Rating (kA)	Motor Hp	Withstand Rating (kA)	Motor Hp	Withstand Rating (kA)	Motor Hp	Withstand Rating (kA)	Motor Hp	Withstand Rating (kA)
0.33 - 0.75	50	0.33 - 0.75	50	0.33 - 1.5	50	0.33 - 2	50	0.33 - 7.5	50
1 - 2	65	1 - 3	65	2 - 5	65	3 - 5	65	10 - 30	10 *
3 - 4	42	4 - 5	42	7.5	42	7.5 - 10	42		
5 - 10	18	7.5 - 10	18	10 - 15	18	15 - 20	18		

120V 1ph		208V 1ph		240V 1ph		Approx. Weight
Motor Hp	Withstand Rating (kA)	Motor Hp	Withstand Rating (kA)	Motor Hp	Withstand Rating (kA)	Lbs (Kg)
0.33 - 0.5	65	0.33 - 1	65	0.33	50	18 (8)
0.75 - 1	42	1.5 - 2	42	0.5 - 1.5	65	
1.5 - 2	18	3 - 4	18	2	42	
				3 - 5	18	

NOTES:
1. * Upstream circuit breaker required to maintain kA rating.
2. All enclosures finished in FirePump red.
3. Cable Entrance either top or bottom.
4. Standard Enclosure type NEMA 2

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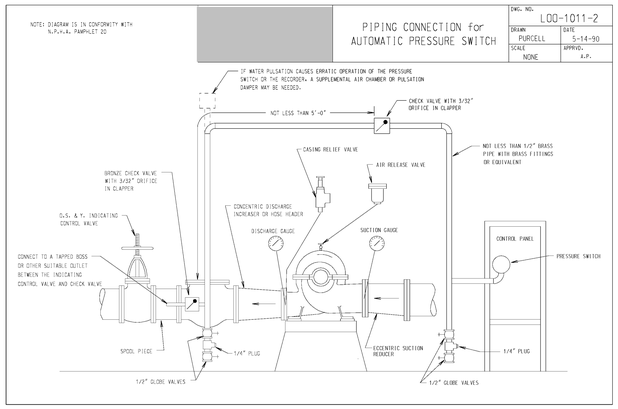
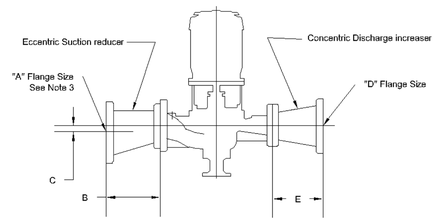


General Arrangement



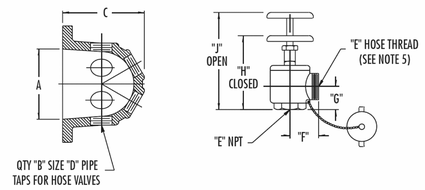
Suction Size	A	B	C	Suction Reducer Flange Rating
8x6	8.00	11.00	1.00	125 lb

Discharge Size	D	E	Discharge Increaser Flange Rating
4x6	6.00	9.00	125 lb

NOTES:
1. Dimensions are in inches (mm) and may vary ± 1/4".
2. Dimensions applicable to both Class 125 & Class 250 fittings.
3. Illustrations show the intended installation positions and orientation of each fitting. Eccentric Suction Reducers are to be installed with the straight side to the top to prevent air entrapment.
4. Proper pipe supports are required to prevent strain on pump casing.
5. Fittings shown are intended to adapt the fire pump suction and discharge flanges to the actual system manifold pipe sizes. Refer to NFPA 20 for the minimum system manifold size for each flow rating (GPM), but in no case should the system suction pipe be a smaller pipe size than that of the pump suction flange.

Quote Information			
Customer	Hydro Technologies		
Customer Quote	2284946		
Job Name	SUMTER CO HIGH SCHOOL		
Market	-		
PENTAIR		Quote Item	001
		Quote Date	27 Jun 2024

General Arrangement



A	B	C	D
6.00	3.00	10.62	2.50

E	F	G	H	J
2.50	3.50	2.75	9.50	11.00

NOTES:
1. Dimensions are in inches (mm) and may vary ±1/4 (6).
2. Components shown are shipped loose for field installation and assembly.
3. Manifold supply size "A" and the number of hose valves ("B") meets or exceeds the minimums specified by N.F.P.A. 20 for the pump ratings indicated.
4. Manifolds for 3000 through 5000 GPM ratings consist of multiple sections and may require support (by others).
5. 1-1/2" Hose valves furnished with 1-1/2" National Standard Fire Hose Thread: 1.9900 (50.55) O.D. (max.) , 6 threads per inch. 2-1/2" Hose valves are furnished with 2-1/2" National Standard Fire Hose Thread: 3.0686 (77.94) O.D. (max.), 7-1/2 threads per inch. Refer to factory for other thread conventions or adaptors.

Quote Information			
Customer	Hydro Technologies		
Customer Quote	2284946		
Job Name	SUMTER CO HIGH SCHOOL		
Market	-		
PENTAIR		Quote Item	001
		Quote Date	27 Jun 2024

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number : 50181596

LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

SHEET TITLE:
FIRE PUMP DETAILS (CONT.)

PROJ. MGR.: –	SMC
DRAWN:	ZDE
DATE: –	07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

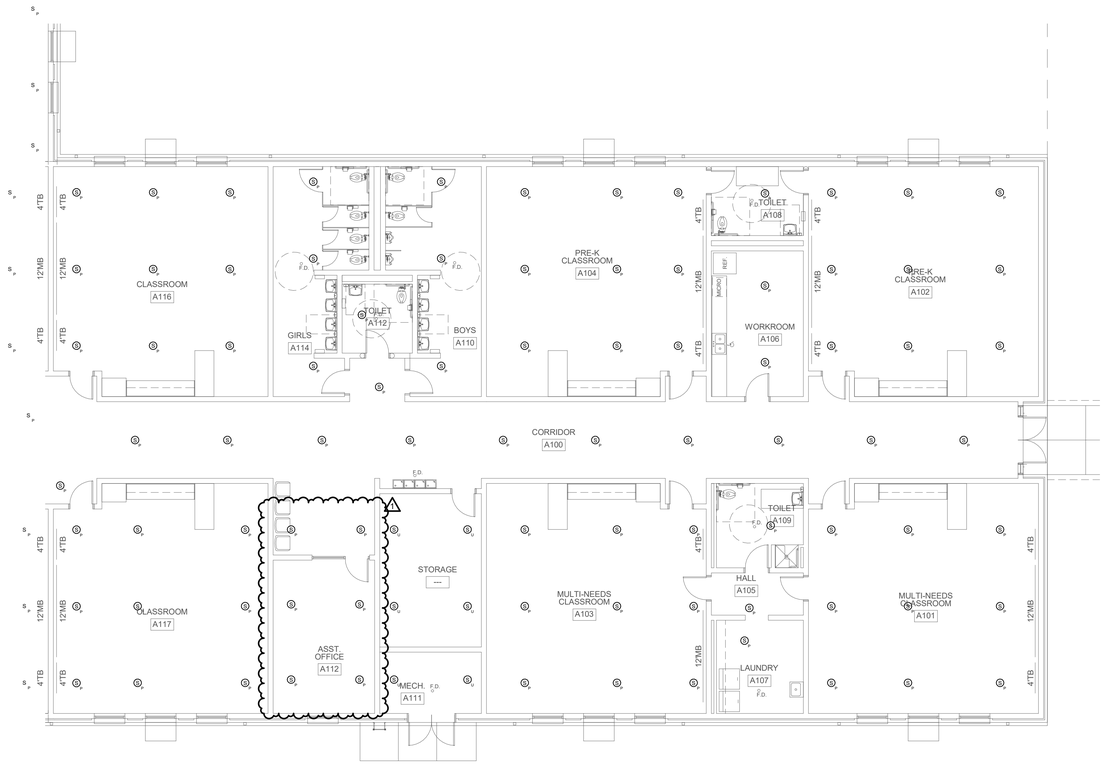
FP0.3

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com

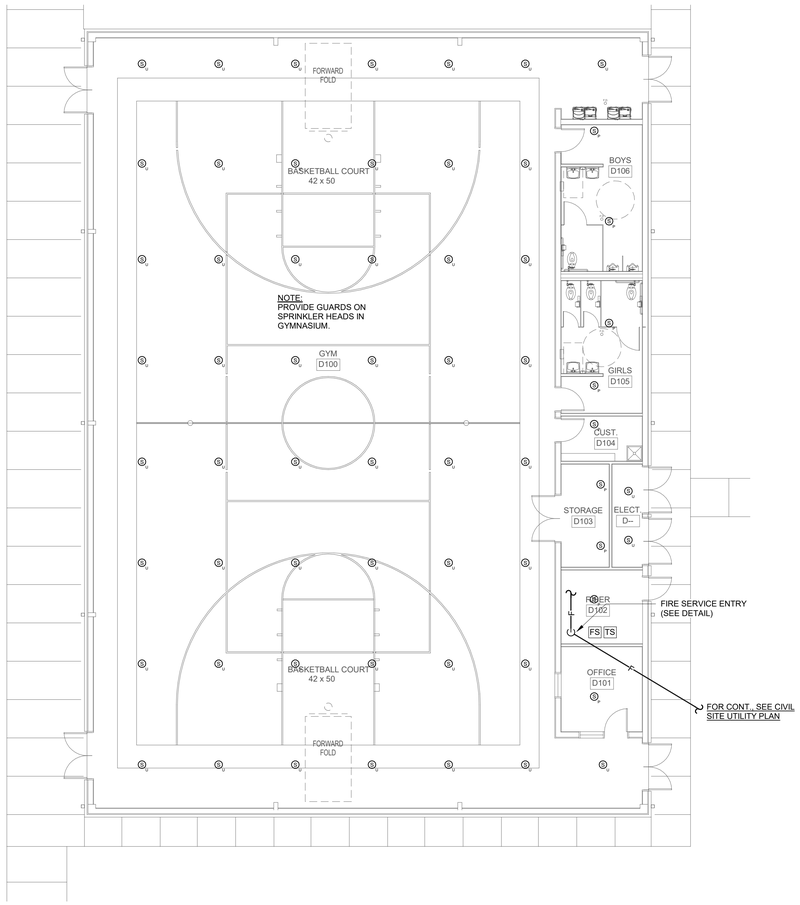
Project Number :
50181596

LATHAN ARCHITECTS

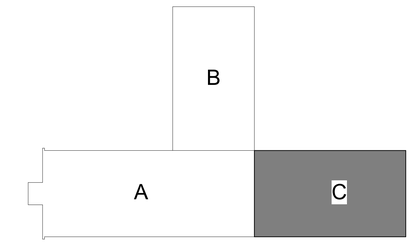
ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION



1 FIRE PROTECTION - FLOOR PLAN - PART C
1/8" = 1'-0"



2 FIRE PROTECTION - GYM FLOOR PLAN
1/8" = 1'-0"



KEY PLAN
SCALE: N.T.S.

SHEET TITLE:
FIRE PROTECTION - FLOOR PLAN - PART C & GYM

PROJ. MGR.: --		SMC
DRAWN:		ZDE
DATE: --		07/16/24
REVISIONS		
1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
FP1.1

GENERAL NOTES

1. LOCATIONS OF UTILITIES SHOWN ON PLANS ARE APPROXIMATE. VERIFY WITH LOCAL UTILITY PRIOR TO BIDDING.
2. CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE, AND ELEVATION OF ALL EXISTING SERVICES PRIOR TO INSTALLING ANY NEW PIPE.
3. ALL OUTSIDE CLEANOUTS SHALL BE BROUGHT TO GRADE AND EMBEDDED IN 18"X18"X16" THICK CONCRETE PAD. (J.R. SMITH 4258 OR EQUAL.)
4. WHEREVER DISSIMILAR METALS ARE CONNECTED ON WATER LINES, A DIELECTRIC UNION SHALL BE USED.
5. ALL HORIZONTAL WATER AND VENT PIPING SHALL BE RUN ABOVE CEILING ON PLAN WHERE SHOWN UNLESS OTHERWISE NOTED.
6. ALL HORIZONTAL SANITARY PIPING IS RUN BELOW FLOOR ON PLAN WHERE SHOWN UNLESS OTHERWISE NOTED.
7. ALL WATER PIPING BELOW SLAB ON GRADE SHALL BE BENT UP AT ENDS SO THAT NO JOINTS OCCUR BELOW FLOOR.
8. ALL WALL HYDRANTS AND HOSE BIBBS SHALL BE MOUNTED 24" ABOVE FINISH GRADE OF FINISH FLOOR UNLESS OTHERWISE NOTED.
9. ALL WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF THE EXTERIOR WALL INSULATION.
10. NO VENT THRU ROOF IS TO BE LOCATED WITHIN 10 FEET OF ANY BUILDING AIR INTAKES, PER CODE. COORDINATE WITH MECHANIAL AND GENERAL CONTRACTORS.
11. DOMESTIC WATER PIPING AND FIRE PROTECTION PIPING LOCATED ABOVE THE CEILING, SHALL BE INSTALLED BELOW CEILING INSULATION.
12. CONTRACTOR SHALL COORDINATE MECHANICAL FLOOR DRAIN LOCATIONS WITH MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.
13. CONTRACTOR SHALL PROVIDE SHOCK ARRESTORS ON ALL BRANCH LINES.
14. CONTRACTOR SHALL COORDINATE ALL SINKS WITH CASEWORK PRIOR TO ORDERING SINKS.
15. DOMESTIC WATER PIPING SHALL NOT BE INSTALLED IN EXTERIOR WALLS.
16. PROVIDE DISINFECTION OF WATER PIPING SYSTEM WITH CHLORINE SOLUTION AS PER CODE.
17. INSTALLATION OF BACKFLOW PREVENTER SHALL COMPLY WITH CURRENT INTERNATIONAL BUILDING CODE AND CURRENT INTERNATIONAL PLUMBING CODE.
18. ALL OVERHEAD WATER PIPING TO BE RUN BELOW INSULATION AT BOTTOM OF TRUSSES FOR FREEZE PROTECTION.
19. ALL WALL HYDRANTS TO BE FREEZE PROOF AND TO HAVE VACUUM BREAKERS.
20. INSULATION ON ALL PIPING SHALL MEET SMOKE/ FLAME RATING OF 25 & 50.
21. NO JOINTS IN WATER PIPING BELOW SLAB.
22. THE LOCATION OF LAVATORIES AND WATER CLOSETS RELATIVE TO THE FINISHED WALL IS CRITICAL. REFER TO ARCHITECTURAL AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL WATER CLOSETS TO BE 18" FROM FINISH WALL TO CENTER OF WATER CLOSET.
23. WATER HAMMER ARRESTORS ARE REQUIRED TO PROTECT WATER PIPING SYSTEMS WHERE QUICK-CLOSING VALVES ARE UTILIZED. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
24. THESE DRAWINGS NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE PROJECT, CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
25. COORDINATE PLUMBING PIPING WITH STRUCTURAL, PLUMBING, HVAC, AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE PROJECT.
26. COORDINATE ALL PLUMBING IN SLAB WITH BUILDING FOOTINGS.
27. NO PIPING TO BE RUN ABOVE ELECTRICAL PANELS. MAINTAIN ALL REQUIRED CLEARANCES.
28. CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS BEFORE SUBMITTING A PRICE, ORDERING MATERIALS OR PERFORMING ANY WORK. NOTIFY THE ARCHITECT OF ANY DEVIATION FROM PLUMBING PLAN.
29. SUPPORT PIPE AS REQUIRED BY THE CURRENT INTERNATIONAL PLUMBING CODE.
30. ALL FOOTINGS AT PLUMBING CHASE WALLS SHALL BE MIN 24" BELOW FINISHED GRADE TO COORDINATE WITH WASTE PIPING IN SLAB.
31. FIRESTOP ALL RATED WALL AND FLOOR PENETRATIONS. SEE ARCHITECTURAL DRAWINGS FOR RATED WALL AND FLOOR LOCATIONS.
32. OFFSET ALL VTR'S TO BACKSIDE OF ROOF RIDGE.
33. DO NOT BEGIN WORK UNTIL ELEVATION OF FINAL CONNECTION POINT IS VERIFIED AND GRADING OF ENTIRE SYSTEM CAN BE DETERMINED (EVEN IF FINAL CONNECTION IS SPECIFIED UNDER ANOTHER SECTION).

PLUMBING LEGEND

(line symbol)	DOMESTIC COLD WATER	(symbol)	CHECK VALVE	DN	DOWN
(line symbol)	DOMESTIC HOT WATER SUPPLY	PRV	PRESSURE RELIEF VALVE	WH - #	WATER HEATER
(line symbol)	DOMESTIC HOT WATER RETURN	CO	CLEANOUT	GPH	GALLONS PER HOUR
(line symbol)	SOIL, WASTE, OR SANITARY SEWER	FD	FLOOR DRAIN	GPM	GALLONS PER MINUTE
(line symbol)	VENT	FS	FLOOR SINK	HW	HOT WATER
(symbol)	PIPE TURNING DOWN	P-#	PLUMBING FIXTURE	HWR	HOT WATER RETURN
(symbol)	PIPE TURNING UP	WH	WALL HYDRANT	TYP	TYPICAL
(symbol)	TEE DOWN	ABV	ABOVE	VS	VENT STACK
(symbol)	TEE UP	AFF	ABOVE FINISHED FLOOR	VSTR	VENT THROUGH ROOF
(symbol)	UNION	BFP	BACKFLOW PREVENTER	MFD	MECHANICAL FLOOR DRAIN
(symbol)	BALANCE VALVE	BFF	BELOW FINISHED FLOOR	WS	WASTE STACK
(symbol)	BALL VALVE	CW	COLD WATER	HB	HOSE BIBB
#	RISER NUMBER				

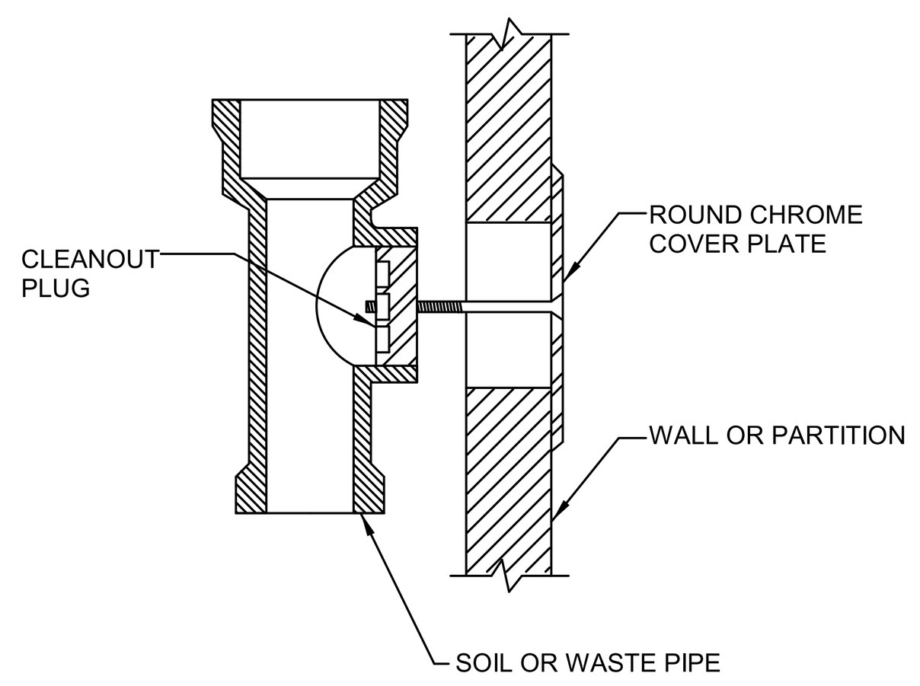
PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	WASTE	CW	HW	REMARKS
FD	FLOOR DRAIN	SEE PLAN	-	-	J.R. SMITH #2010 WITH 6" ROUND NICKEL BRONZE GRATE. PROVIDE WITH J.R. SMITH TRAP INSERT.
FS	FLOOR SINK	SEE PLAN	-	-	J.R. SMITH #3100, 8" SQUARE, PORCELAIN ENAMELED CAST IRON INTERIOR WITH 3/4 CAST IRON PORCELAIN ENAMELED GRATE AND DOME BOTTOM STRAINERS. PROVIDE WITH J.R. SMITH TRAP INSERT.
MFD	MECHANICAL FLOOR DRAIN	<varies>	-	-	J.R. SMITH #2240 WITH SEDIMENT BUCKET. PROVIDE WITH J.R. SMITH TRAP INSERT.
P-1	WATER CLOSET - ADA COMPLIANT	4"	1"	-	FLOOR MOUNTED - KOHLER K-96057-SS-0 COMPLETE SLOAN #111 FLUSH VALVE WITH YJ BRACKET AND CHURCH "DURA GUARD" MODEL # 2155 SSC SEAT.
P-2	WATER CLOSET	4"	1"	-	FLOOR MOUNTED - KOHLER K-96053-SS-0 COMPLETE SLOAN #111 FLUSH VALVE WITH YJ BRACKET AND CHURCH "DURA GUARD" MODEL #2155 SSC SEAT.
P-3	URINAL - ADA COMPLIANT	3"	1"	-	WALL MOUNTED-KOHLER K-5016-ET COMPLETE, K-9183 STAINLESS STEEL STRAINER, J.R. SMITH #623 FIXTURE SUPPORT, AND SLOAN #186 FLUSH VALVE WITH YJ BRACKET. SET LIP 17" AFF.
P-4	URINAL	3"	1"	-	WALL MOUNTED-KOHLER K-5016-ET COMPLETE, K-9183 STAINLESS STEEL STRAINER, J.R. SMITH #623 FIXTURE SUPPORT, AND SLOAN #186 FLUSH VALVE WITH YJ BRACKET.
P-5	LAVATORY - ADA COMPLIANT	1 1/4"	1/2"	1/2"	WALL HUNG - KOHLER K-2032 (20" X 18") COMPLETE, SYMMONS S-20-0 FAUCET, K7715 OUTLET WITH TAILPIECE, J.R. SMITH #700-M31-Z FIXTURE SUPPORT, MCGUIRE #165 SUPPLIES WITH STOPS AND MCGUIRE #8872 P-TRAP. INSULATE P-TRAP, STOPS AND SUPPLIES WITH "PRO-WRAP" BY MCGUIRE. MOUNT WITH RIM MAXIMUM 34" AFF. PROVIDE LAWLER 570 THERMOSTATIC MIXING VALVE MOUNTED BELOW LAVATORY. RUN 100° F WATER TO FAUCET. MUST MEET A.D.A. GUIDELINES.
P-6	LAVATORY	1 1/4"	1/2"	1/2"	WALL HUNG - KOHLER K-2032 (20" X 18") COMPLETE, SYMMONS S-20-0 FAUCET, K7715 OUTLET WITH TAILPIECE, J.R. SMITH #700-M31-Z FIXTURE SUPPORT, MCGUIRE #165 SUPPLIES WITH STOPS AND MCGUIRE #8872 P-TRAP. INSULATE P-TRAP, STOPS AND SUPPLIES WITH "PRO-WRAP" BY MCGUIRE. PROVIDE LAWLER 570 THERMOSTATIC MIXING VALVE MOUNTED BELOW LAVATORY. RUN 100° F WATER TO FAUCET.
P-7	DOUBLE BOWL SINK	1 1/2"	1/2"	1/2"	ELKAY LRAD-3321, LK-35 STRAINERS, SYMMONS S-23-3 FAUCET WITH SPRAY. MCGUIRE #8912 P-TRAP, CONTINUOUS WASTE OUTLET, AND #165 STOPS WITH SUPPLIES.
P-8	MOP SINK	3"	1/2"	1/2"	STERN WILLIAMS #SBC-1700 (24" X 24") COMPLETE, T-35 HOSE WITH WALL HOOK, STAINLESS STEEL BACKSPLASH AND CHICAGO FAUCET #897 FAUCET.
P-9	REF. ICE MAKER BOX	-	1/2"	-	FURNISHED AND INSTALLED UNDER ANOTHER SECTION. PROVIDE IN WALL BEHIND REFRIGERATOR A GUY GRAY MODEL "B" 16 GAUGE ALL METAL BOX LESS DRAIN AND SUPPLIES. PROVIDE IN BOX A 1/2" BALL VALVE WITH 10 FEET OF 1/4" SOFT COPPER COILED IN BOX FOR CONNECTION TO REFRIGERATOR ICE MAKER.
P-10	WASHING MACHINE BOX (RESIDENTIAL)	1 1/2"	1/2"	1/2"	GUY GRAY # WB-200. PROVIDE SHOCK ARRESTORS PDI SIZE "B" ABOVE CEILING ON HOT AND COLD WATER LINES.
P-11	WATER COOLER - ADA COMPLIANT	1 1/2"	1/2"	-	ELKAY # EZSTL8WSSK BI-LEVEL WATER COOLER WITH BOTTLE FILLER STATION. COMPLETE WITH STAINLESS STEEL CABINET AND WATERWAYS THAT ARE MANUFACTURED OF 100% LEAD FREE MATERIAL, J.R. SMITH #834 FIXTURE SUPPORT EBC TA150 P-TRAP AND EBC LA10 STOP WITH SUPPLY. FULLY INSULATE P-TRAP WITH EBC IK INSULATOR. INSTALL WITH LOWER SPOUT OUTLET MAXIMUM 36" AFF. MUST MEET A.D.A. INSTALL WITH BOTTLE FILLER. INSTALL COMPLETE. PROVIDE WITH ELKAY MODEL #LKAPREZL CANE APRON AS REQUIRED.
P-12	WATER COOLER - ADA COMPLIANT	1 1/2"	1/2"	-	ELKAY EZSTL8C BI-LEVEL, STAINLESS STEEL CABINET, WITH WATERWAYS MANUFACTURED OF 100% LEAD FREE MATERIAL, J.R. SMITH #834 FIXTURE SUPPORT, BALL VALVE STOP WITH SUPPLY, SAFETY-GUARD BUBBLER. MCGUIRE #8872 P-TRAP. FULLY INSULATE P-TRAP. MOUNT WITH LOWER SPOUT OUTLET 36" ABOVE FINISH FLOOR. PROVIDE COLOR CHART FOR ARCHITECT COLOR SELECTION. PROVIDE WITH ELKAY MODEL #LKAPREZL CANE APRON AS REQUIRED.
P-14	SHOWER - ADA COMPLIANT	SD	1/2"	1/2"	CHICAGO FAUCET 1907-CP THERMOSTATIC/PRESSURE BALANCING SHOWER VALVE, 151-ACP HAND SHOWER AND GRAB BAR, 763-CP DIVERTER VALVE, FIXED SHOWER HEAD, WITH BLADE HANDLE, AND TRIM. ADJUST FOR 109°F MAXIMUM TEMP. PROVIDE BACK PLATE.
P-15	WATER CLOSET - ADA COMPLIANT	4"	1/2"	-	FLOOR MOUNTED - KOHLER K-3493-SS-0 PRESSURE ASSISTED TANK TYPE WATER CLOSET AND CHURCH "DURA GUARD" MODEL # 2155 SSC SEAT. PROVIDE WITH MAGUIRE #LFBV2166 STOP AND SUPPLY.
P-16	ICE MACHINE	-	1/2"	-	FURNISHED AND INSTALLED UNDER ANOTHER SECTION, ROUGH AND CONNECT COMPLETE, PROVIDE BALL VALVE STOP ON SUPPLY AND PIPE WASTE(S) TO FLOOR DRAIN. PROVIDE WATTS LF9D ON COLD WATER SUPPLY IF REQUIRED BY LOCAL CODES. PIPE RELIEF FULL SIZE TO FS.
P-17	SINK	1 1/4"	1/2"	1/2"	ELKAY LRAD-2219 DRAIN OFFSET TO BACK, LK-35 STRAINER, CHICAGO FAUCET #786-FC RIGID FAUCET, MCGUIRE #1912 P-TRAP AND #165 STOPS WITH SUPPLIES.
P-25	DRAIN BOX	1 1/2"	-	-	PROVIDE A SIOUX CHIEF MODEL #696-3F DRAIN BOX, #696-LC LOUVERED COVER, #696-CF SECONDARY DRAINAGE FUNNEL, AND J.R. SMITH TRAP SEAL INSERT. BOX TO COME COMPLETE WITH WALL FLANGE AND LOUVER. COORDINATE WITH MECHANICAL TO RECEIVE CONDENSATE WASTE. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.
SD	SHOWER DRAIN	2"	-	-	J.R. SMITH #2010 WITH 6" ROUND NICKEL BRONZE GRATE. PROVIDE WITH J.R SMITH TRAP INSERT.
WH-1	WALL HYDRANT	-	3/4"	-	J.R. SMITH #5509-QT, WITH INTEGRAL BACKFLOW PREVENTER, LATCHING COVER, FREEZE-PROOF AND OF PROPER LENGTH FOR WALL IN WHICH INSTALLED, ALL BRONZE BOX. VALVE SEAT MUST BE ON BUILDING SIDE OF EXTERIOR WALL INSULATION. INSTALL WITH CENTER LINE 24" ABOVE FINISH GRADE. PROVIDE OWNER WITH ONE (1) LOOSE KEY FOR EACH WALL HYDRANT.

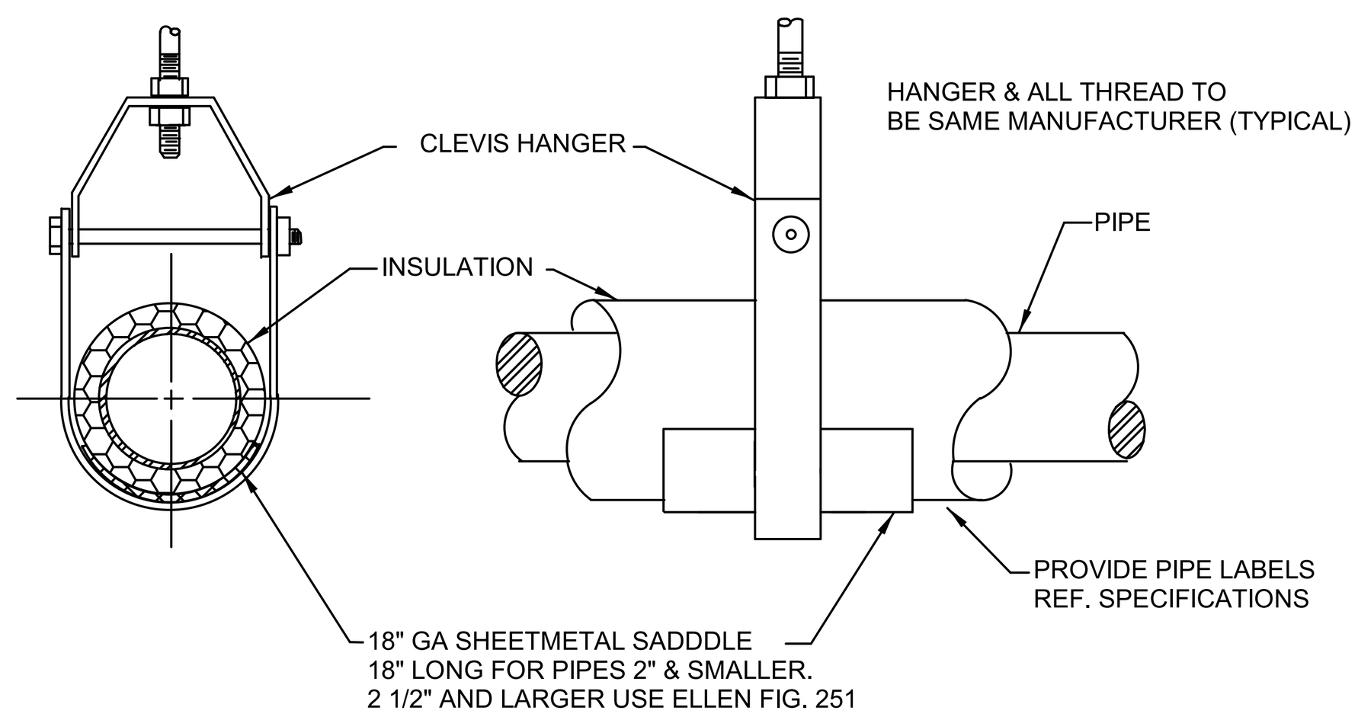
WATER HEATER SCHEDULE

MARK	FIXTURE	ELEC INFO.	REMARKS
CP-1	CIRCULATION PUMP	1/12 HP, 115/1/60.	ARMSTRONG COMPASS. PROVIDE WITH TIMER AND AQUASTAT EQUAL TO HONEYWELL L6006A.
CP-2	CIRCULATION PUMP	1/12 HP, 115/1/60.	ARMSTRONG COMPASS. PROVIDE WITH TIMER AND AQUASTAT EQUAL TO HONEYWELL L6006A.
ET-1	EXPANSION TANK		AMTROL THERM - X-TROL #ST-12 EXPANSION TANK, PRE-CHARGED, WELDED STEEL CONSTRUCTION. ISOLATION BETWEEN WATER AND AIR SHALL BE BY A BUTYL DIAPHRAM.
ET-2	EXPANSION TANK	-	AMTROL THERM - X-TROL #ST-5 EXPANSION TANK, PRE-CHARGED, WELDED STEEL CONSTRUCTION. ISOLATION BETWEEN WATER AND AIR SHALL BE BY A BUTYL DIAPHRAM.
MMV-1	MASTER MIXING VALVE		SYMMONS TEMPCONTROL 7-500A-W COMPLETE. WALL MOUNTING BRACKET. SET OUTLET TEMPERATURE AT 125°F.
TWH-1	TANKLESS WATER HEATER	208V, 1PHASE, 3.6KW.	EEMAX MODEL AM005240T WITH INTEGRAL ASSE 1070 MIXING VALVE. PROVIDES 68°F TEMP. RISE AT 0.5 GPM. MOUNT BELOW LAVATORY WHERE SHOWN ON DRAWINGS. PIPE TO HW INLET OF FAUCET.
TWH-1	TANKLESS WATER HEATER	208V, 1PHASE, 3.6KW.	EEMAX MODEL AM005240T WITH INTEGRAL ASSE 1070 MIXING VALVE. PROVIDES 68°F TEMP. RISE AT 0.5 GPM. MOUNT BELOW LAVATORY WHERE SHOWN ON DRAWINGS. PIPE TO HW INLET OF FAUCET.
TWH-1	TANKLESS WATER HEATER	208V, 1PHASE, 3.6KW.	EEMAX MODEL AM005240T WITH INTEGRAL ASSE 1070 MIXING VALVE. PROVIDES 68°F TEMP. RISE AT 0.5 GPM. MOUNT BELOW LAVATORY WHERE SHOWN ON DRAWINGS. PIPE TO HW INLET OF FAUCET.
WH-1	ELECTRIC WATER HEATER	208V, 1PHASE, 4.5 KW.	LOCHINVAR LTD-40JK, 40 GALLON STORAGE, 19 GALLON RECOVERY AT 100°F RISE. NEW P&T RELIEF VALVE. SET OUTLET TEMPERATURE AT 130°F. INSTALL AS DETAILED ON DRAWINGS. VERIFY VOLTAGE WITH ELECTRICAL SECTION.
WH-2	ELECTRIC WATER HEATER	208V, 1PHASE, 4.5 KW.	LOCHINVAR LTJ-20JK, 20 GALLON STORAGE, 19 GALLON RECOVERY AT 100°F RISE. NEW P&T RELIEF VALVE. SET OUTLET TEMPERATURE AT 125°F. INSTALL AS DETAILED ON DRAWINGS. VERIFY VOLTAGE WITH ELECTRICAL SECTION.

1



WALL CLEANOUT
NO SCALE



SUSPENDED PIPE SUPPORT
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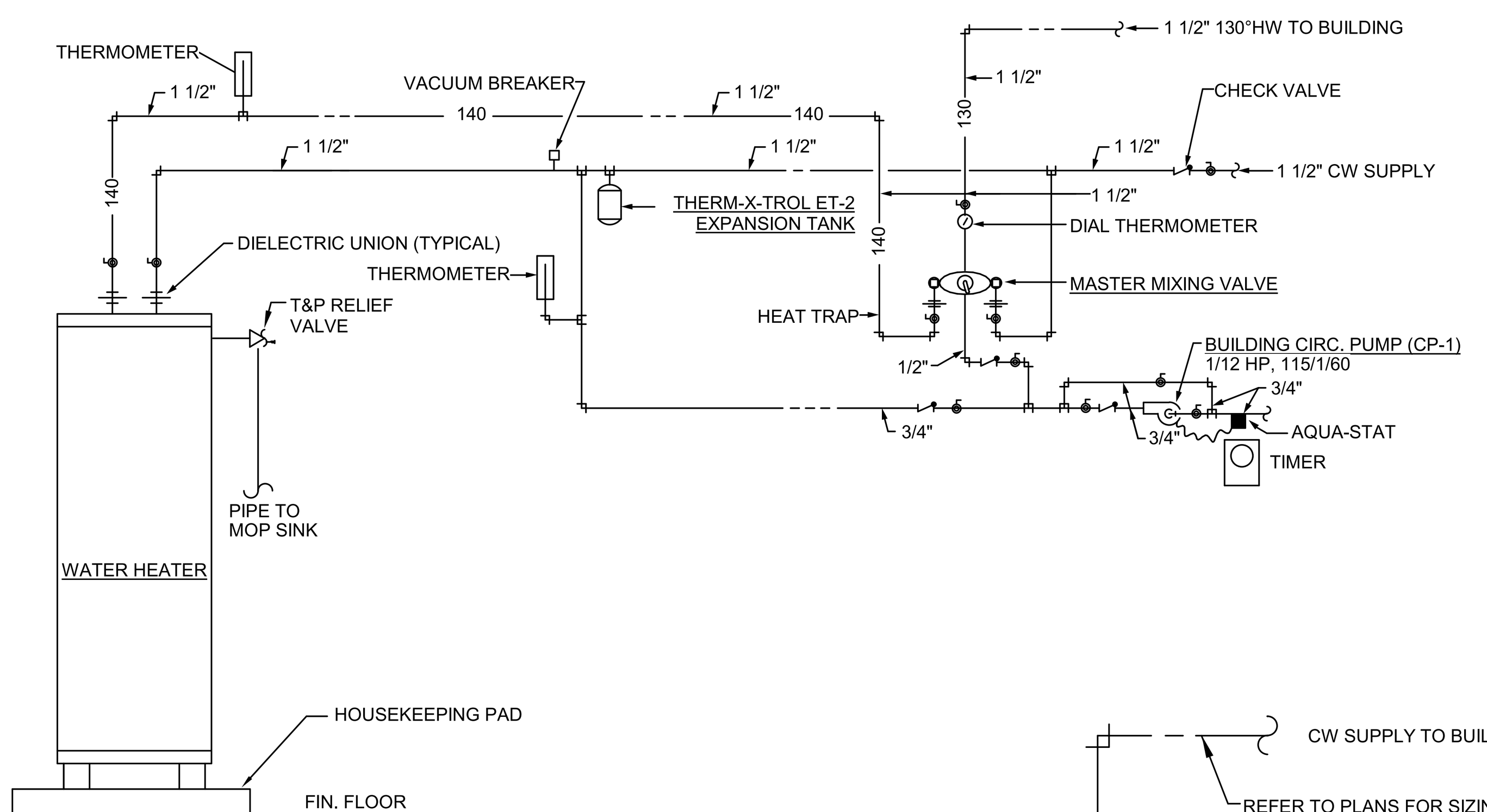

DETAIL OF WATER HEATER-WH-1
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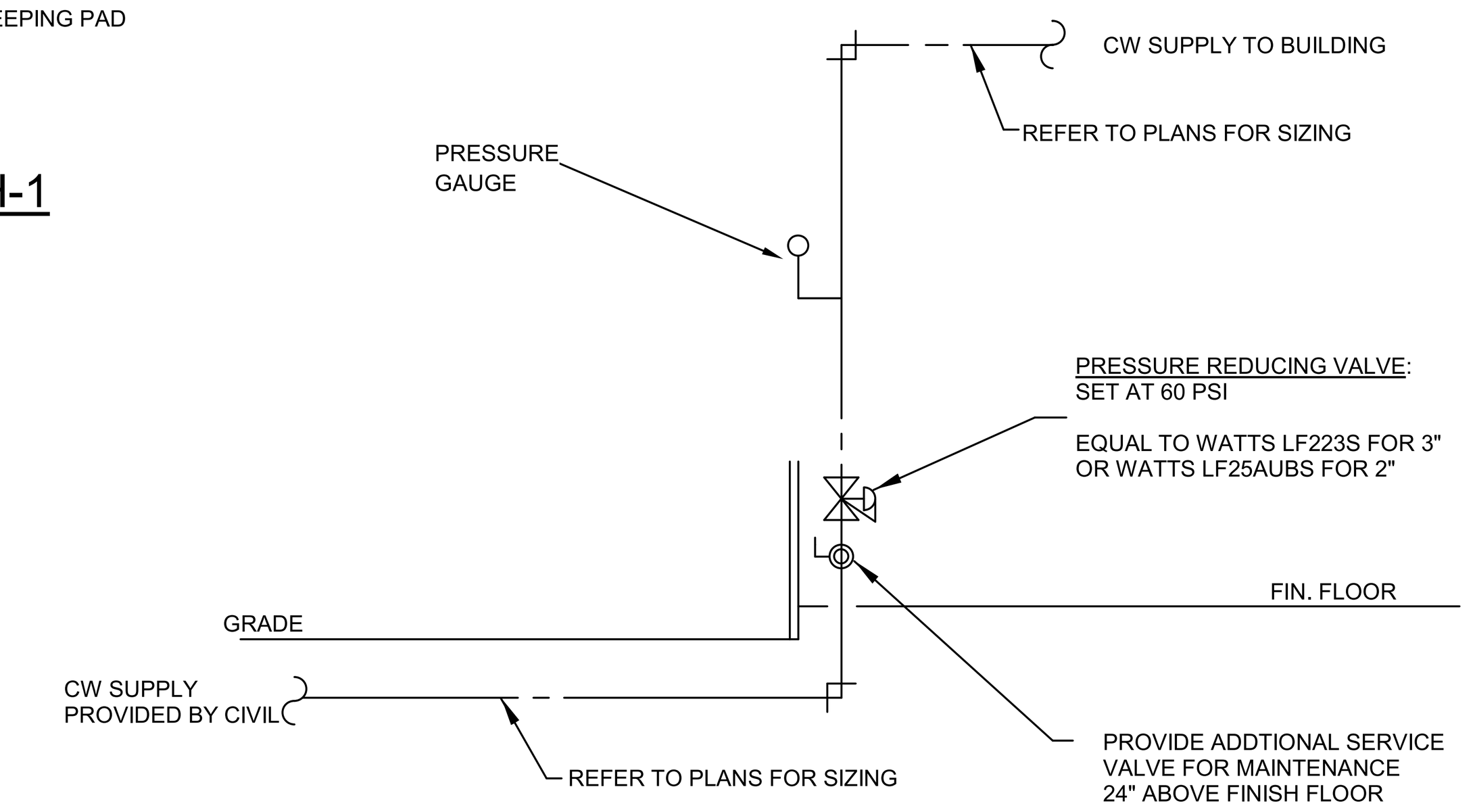

DETAIL OF WATER ENTRY
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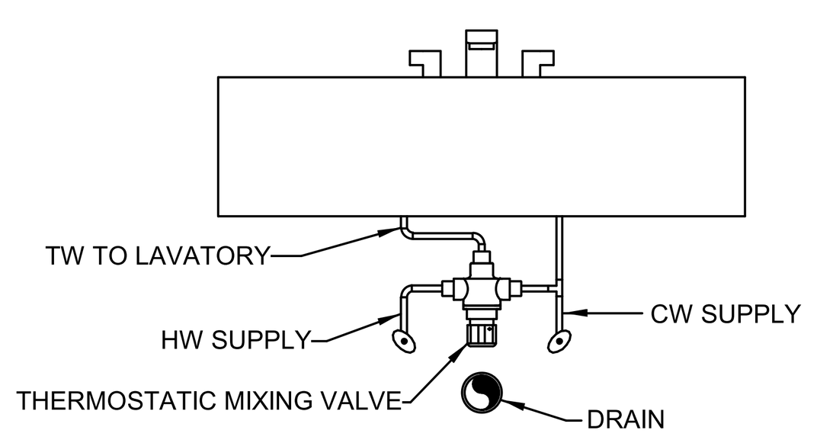
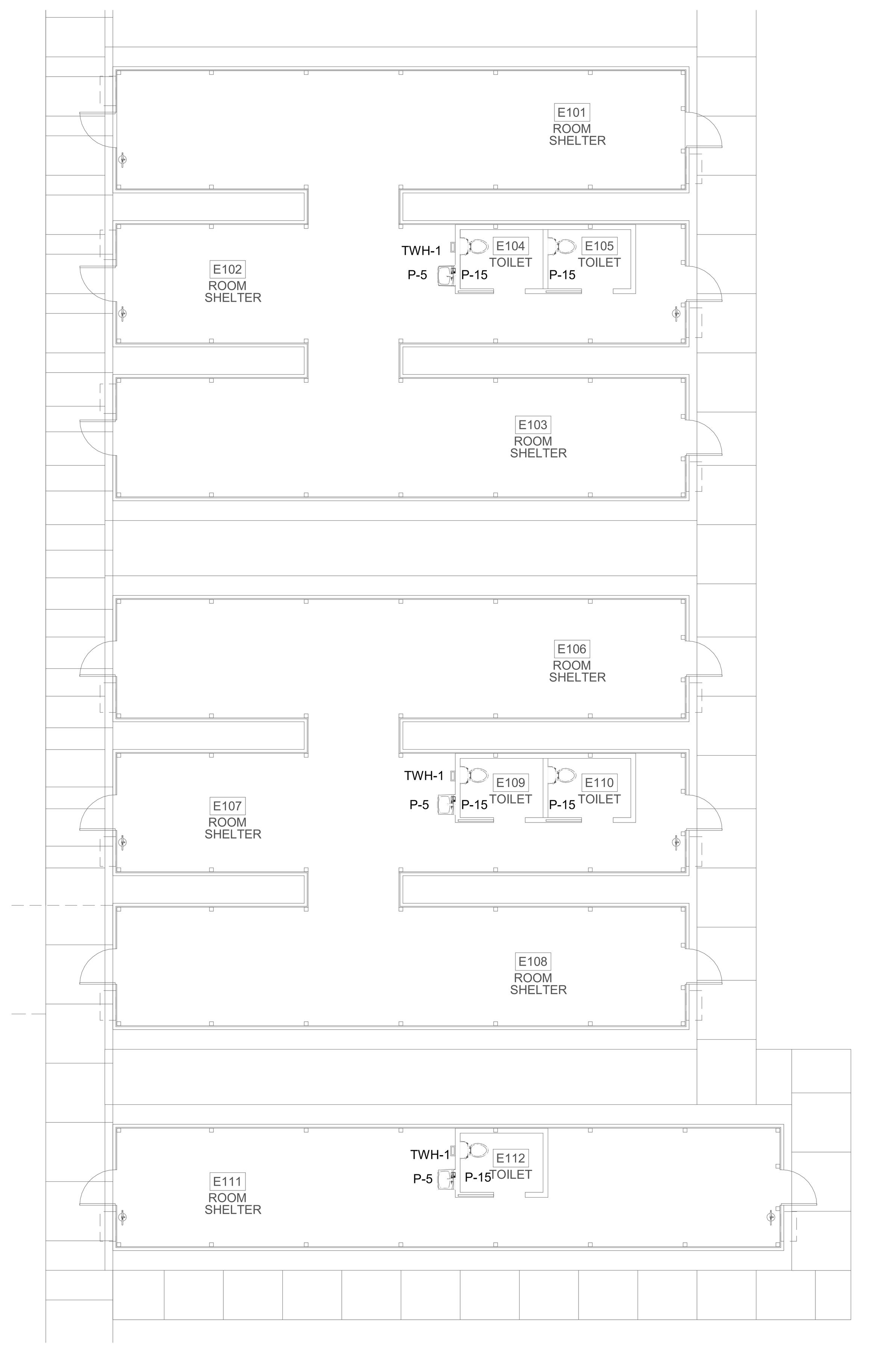
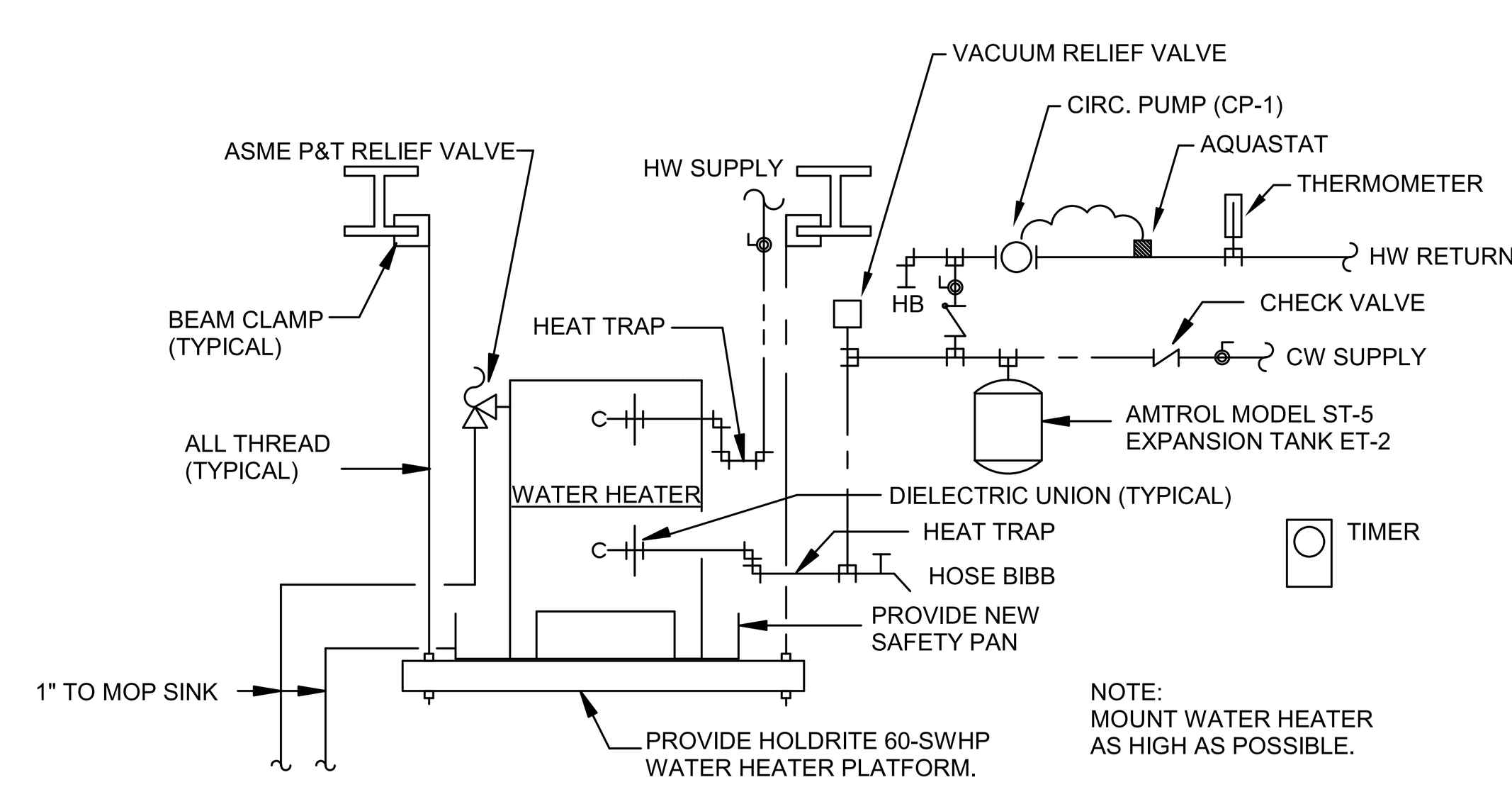
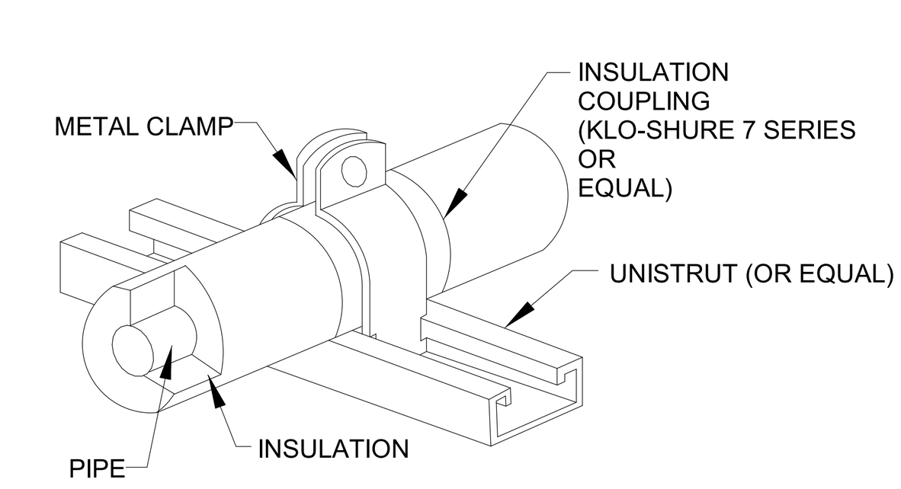


DETAIL OF TMV BELOW LAVATORY
NO SCALE



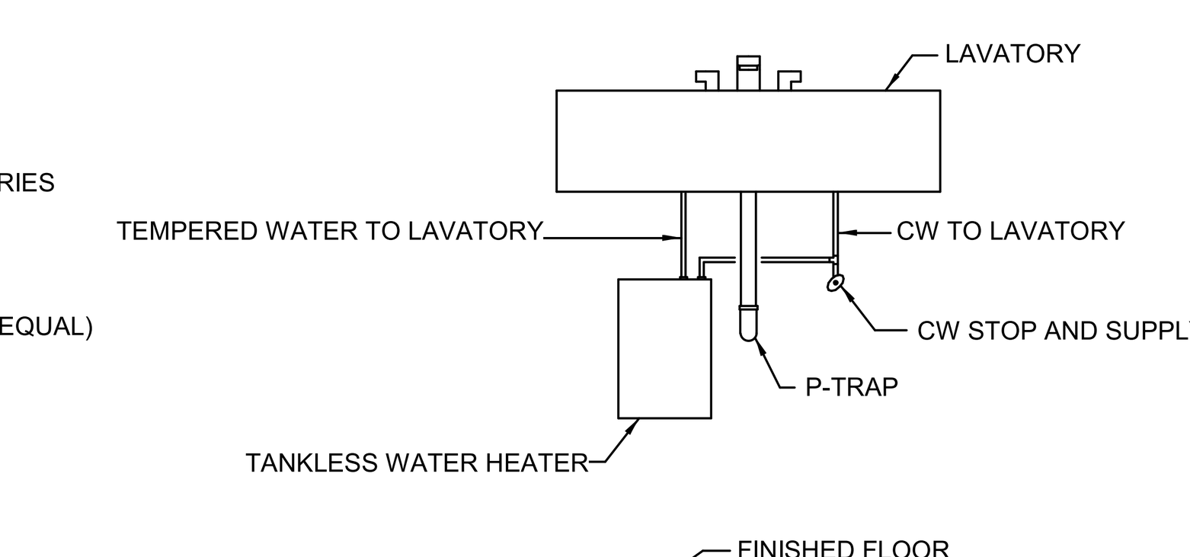


DETAIL OF PIPING AT WATER HEATER WH-2
NO SCALE

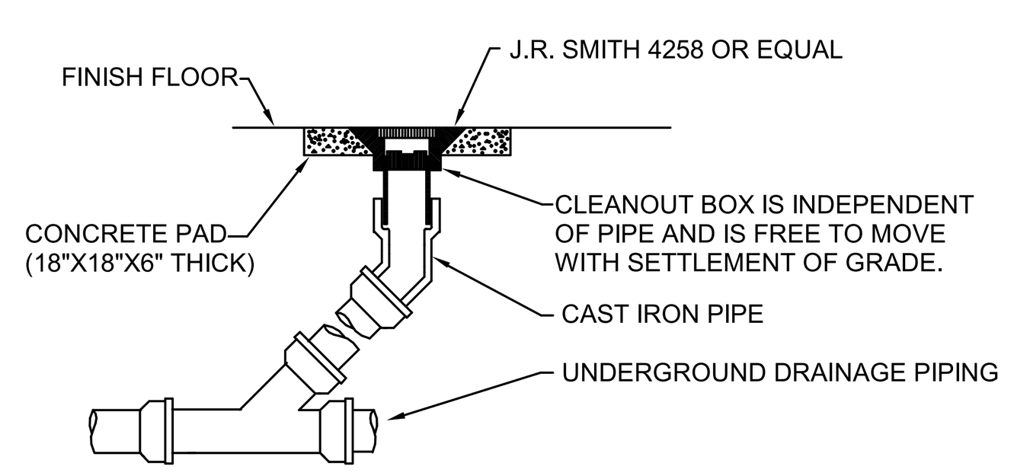


NOTES:
1. APPLICATION: FOR STRUT MOUNTED, 4 INCH AND SMALLER, COFFEE PIPE WITH FOAMED PLASTIC (ARMAFLEX) OR FIBERGLASS INSULATION.
2. ALLOWED FOR HORIZONTAL OR VERTICAL INSTALLATION.
3. FOR COLD PIPE APPLICATION, APPLY ADHESIVE TO END OF FOAMED PLASTIC INSULATION PRIOR TO INSERTING INTO COUPLING.

STRUT-MOUNTED PIPING SUPPORT INSULATION COUPLING DETAIL
NO SCALE



DETAIL OF TANKLESS WATER HEATER AT LAVATORY
NO SCALE



DETAIL OF CLEANOUT TO GRADE
NO SCALE

1 PLUMBING - STORM SHELTER FLOOR PLAN
1/8" = 1'-0"

Dewberry
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13878 US HIGHWAY 11, YORK, AL 36925
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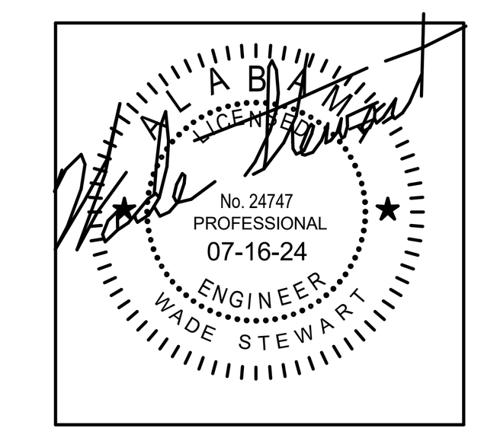

SHEET TITLE:
PLUMBING SCHEDULES AND NOTES

PROJ. MGR.: —	SMC
DRAWN:	ZDE
DATE: —	07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38
SHEET NO:
P0.01

0 1" 2"

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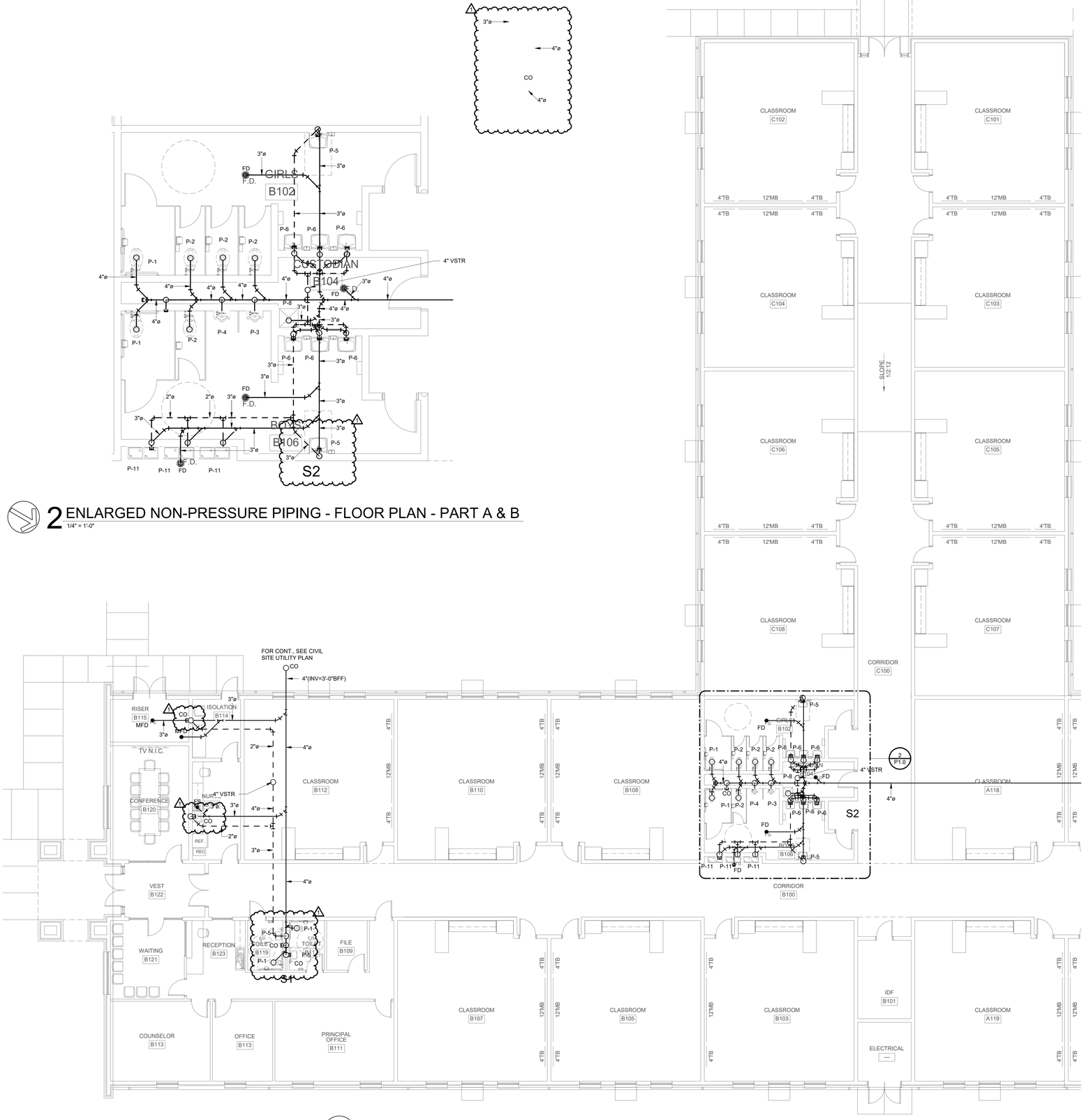
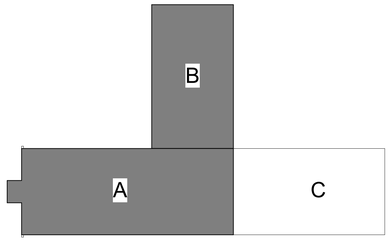
2 ENLARGED NON-PRESSURE PIPING - FLOOR PLAN - PART A & B
1/4" = 1'-0"



1 NON-PRESSURE PIPING - FLOOR PLAN - PART A & B
1/8" = 1'-0"



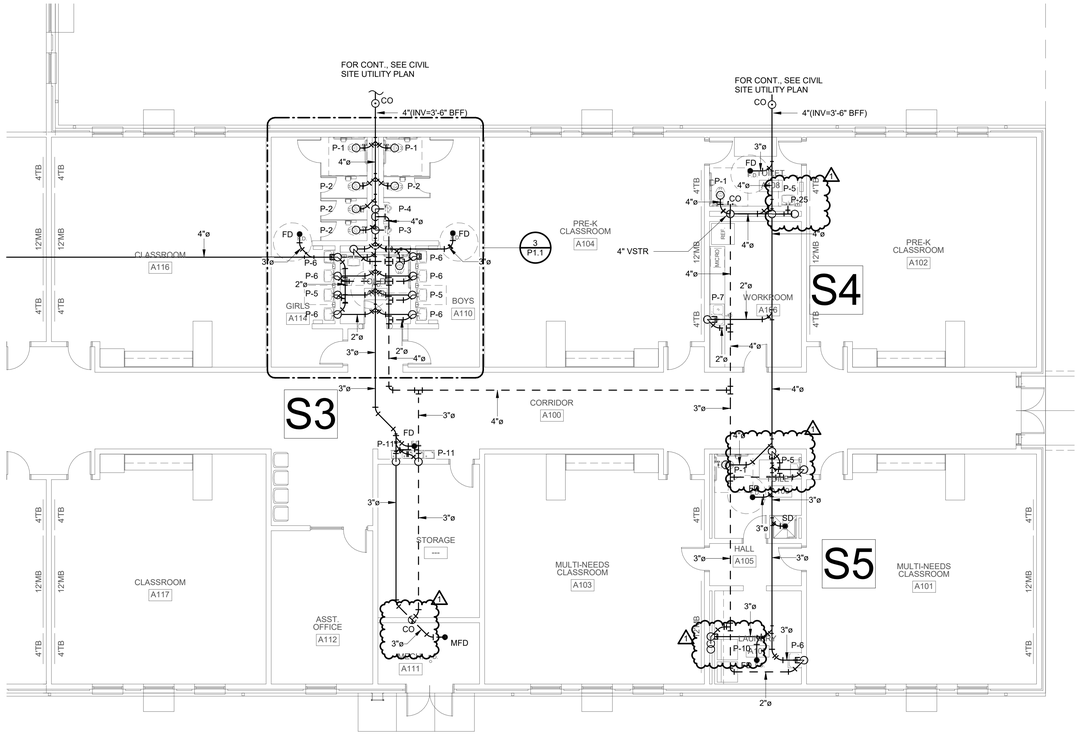
KEY PLAN
SCALE: N.T.S.

SHEET TITLE:
NON-PRESSURE PIPING - FLOOR PLAN - PART A & B

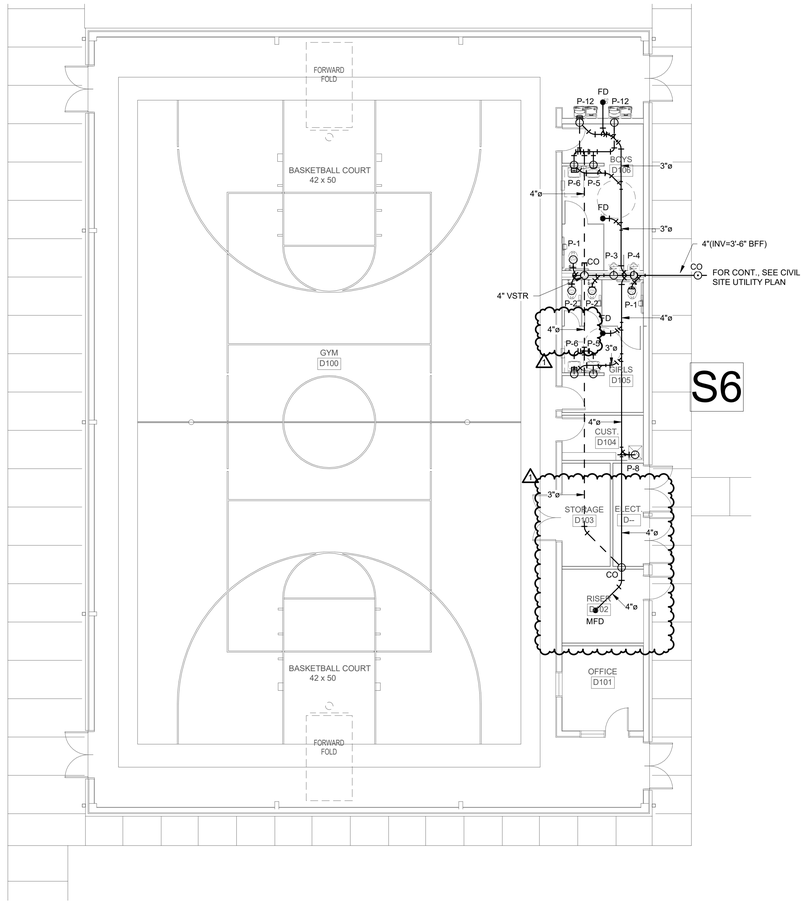
PROJ. MGR.: –		SMC
DRAWN:		ZDE
DATE: –		07/16/24
REVISIONS		
1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
P1.0



1 NON-PRESSURE PIPING - FLOOR PLAN - PART C
1/8" = 1'-0"



2 NON-PRESSURE PIPING - GYM FLOOR PLAN
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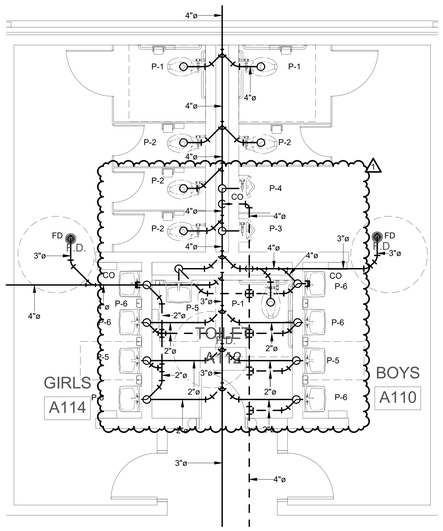
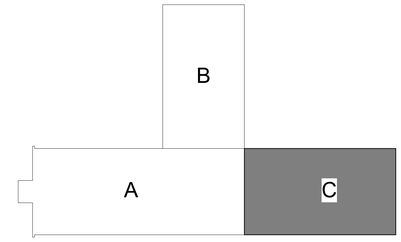


3 ENLARGED NON-PRESSURE PIPING - FLOOR PLAN - PART C
1/4" = 1'-0"



KEY PLAN
SCALE: N.T.S.

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ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

No. 24747
PROFESSIONAL
07-16-24
ENGINEER
WADE STEWART

SHEET TITLE:
NON-PRESSURE PIPING - FLOOR PLAN - PART C & GYM

PROJ. MGR.:	– SMC
DRAWN:	ZDE
DATE:	– 07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
P1.1

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SUMTER CENTRAL HIGH SCHOOL
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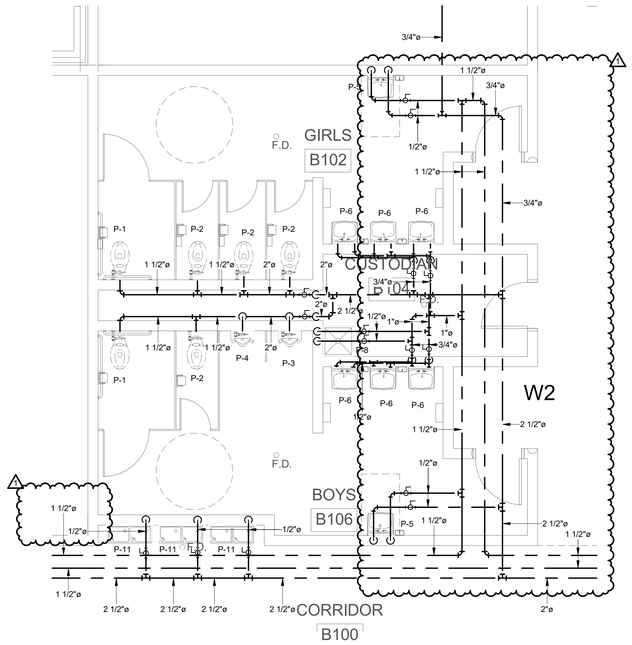
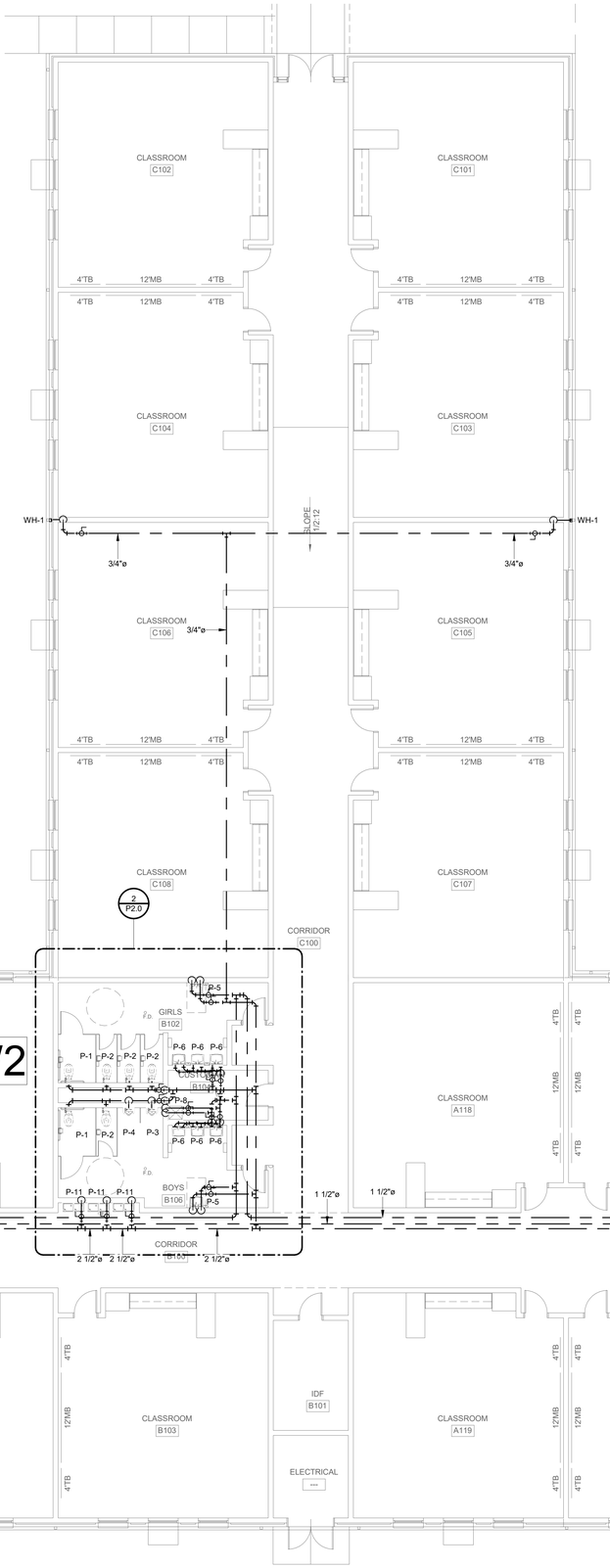
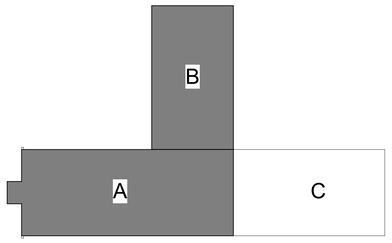
SUMTER COUNTY BOARD OF EDUCATION



2 PRESSURE PIPING - ENLARGED FLOOR PLAN - AREA A
1/4" = 1'-0"



1 PRESSURE PIPING - FLOOR PLAN - PART A & B
1/8" = 1'-0"



KEY PLAN
SCALE: N.T.S.

SHEET TITLE:
PRESSURE PIPING - FLOOR PLAN - PART A & B

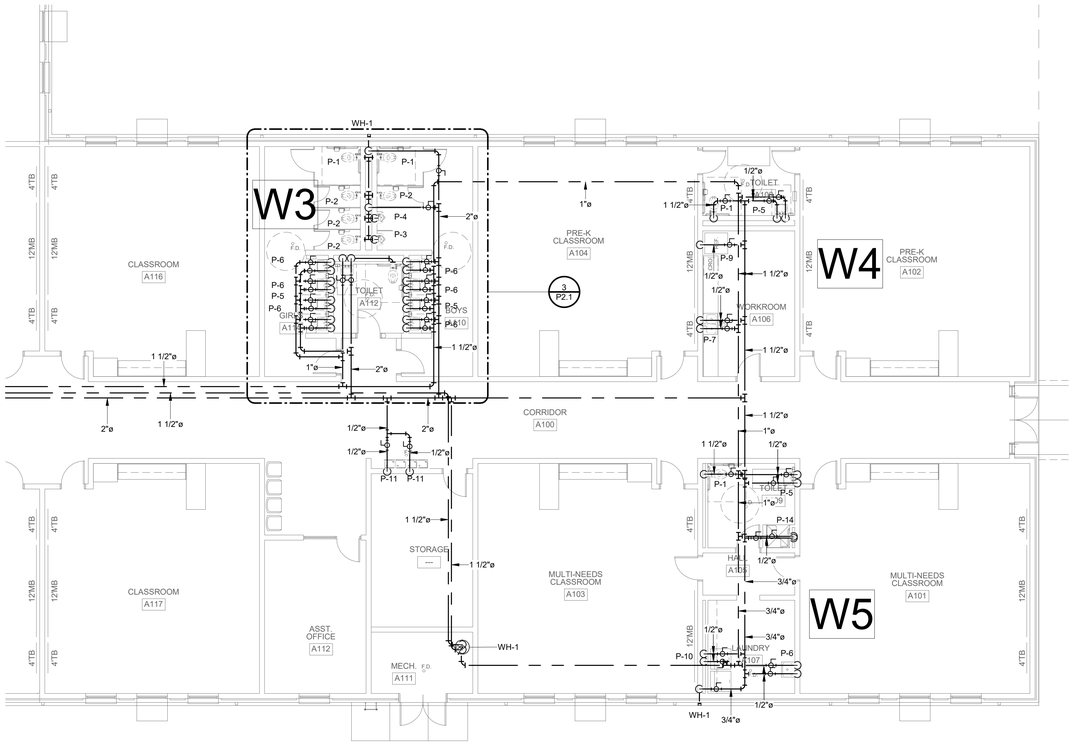
PROJ. MGR.:	–	SMC
DRAWN:		ZDE
DATE:	–	07/16/24

REVISIONS

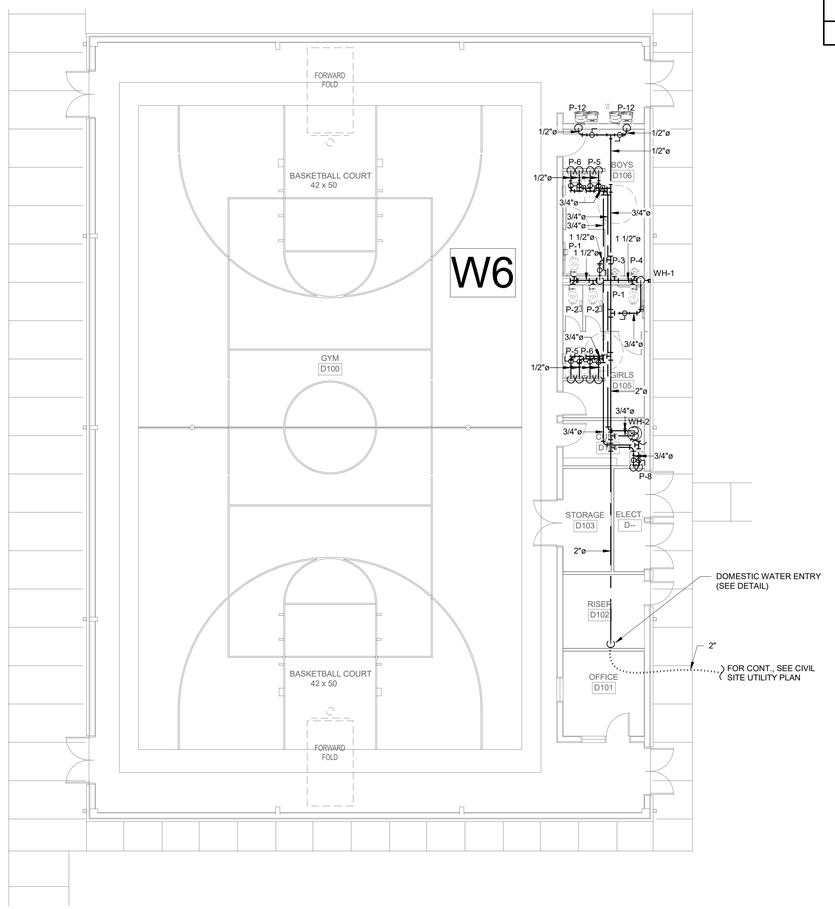
1	7/16/24	Addendum #1

JOB NO. 24-38

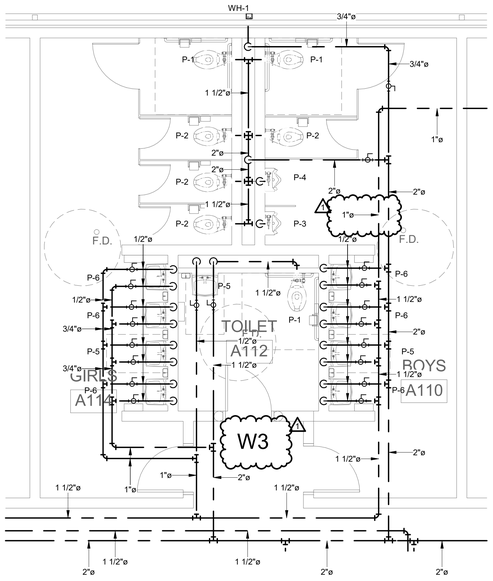
SHEET NO:
P2.0



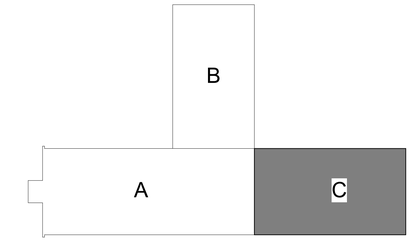
1 PRESSURE PIPING - FLOOR PLAN - PART C
1/8" = 1'-0"



2 PRESSURE PIPING - GYM FLOOR PLAN
1/8" = 1'-0"



3 PRESSURE PIPING - ENLARGED FLOOR PLAN AREA B
1/4" = 1'-0"



KEY PLAN
SCALE: N.T.S.

Dewberry
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Project Number :
50181596

LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

No. 24747
PROFESSIONAL
07-16-24
ENGINEER
WADE STEWART

SHEET TITLE:
PRESSURE PIPING - FLOOR PLAN - PART C & GYM

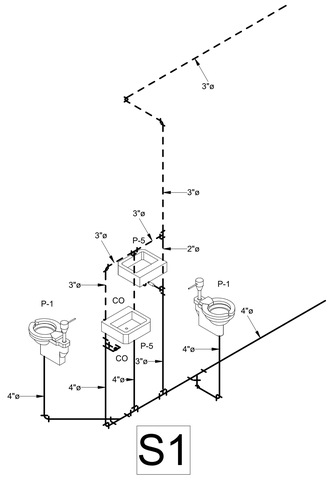
PROJ. MGR.: –	SMC
DRAWN:	ZDE
DATE: –	07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
P2.1



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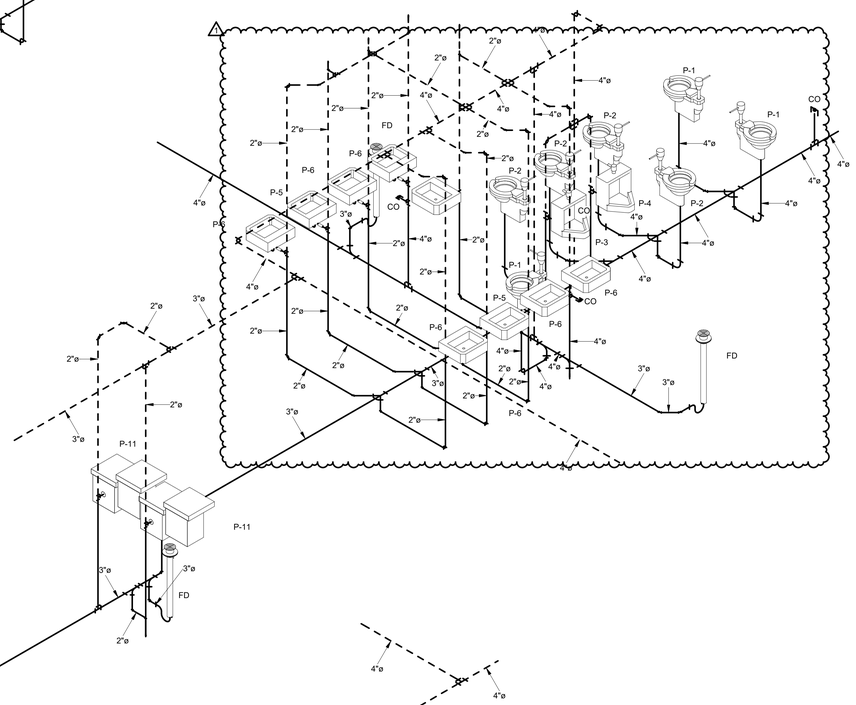

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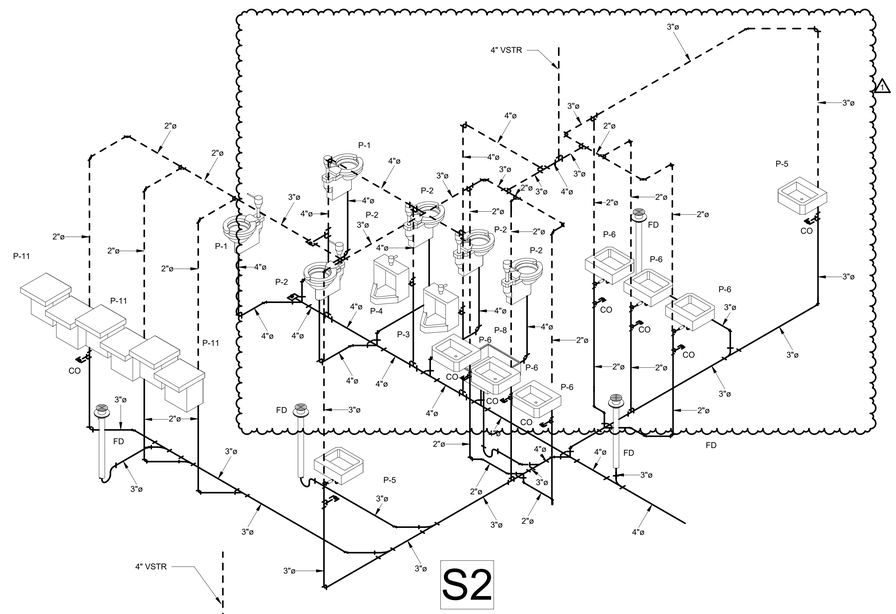

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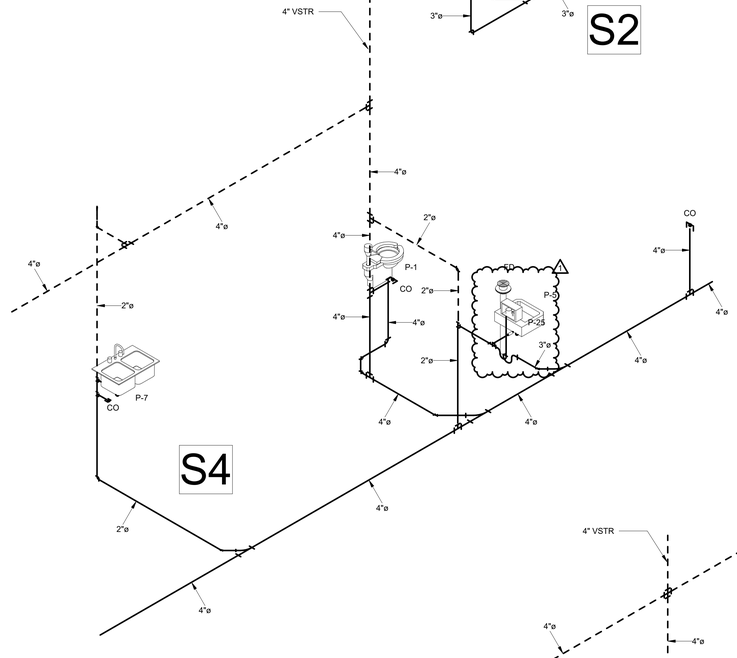

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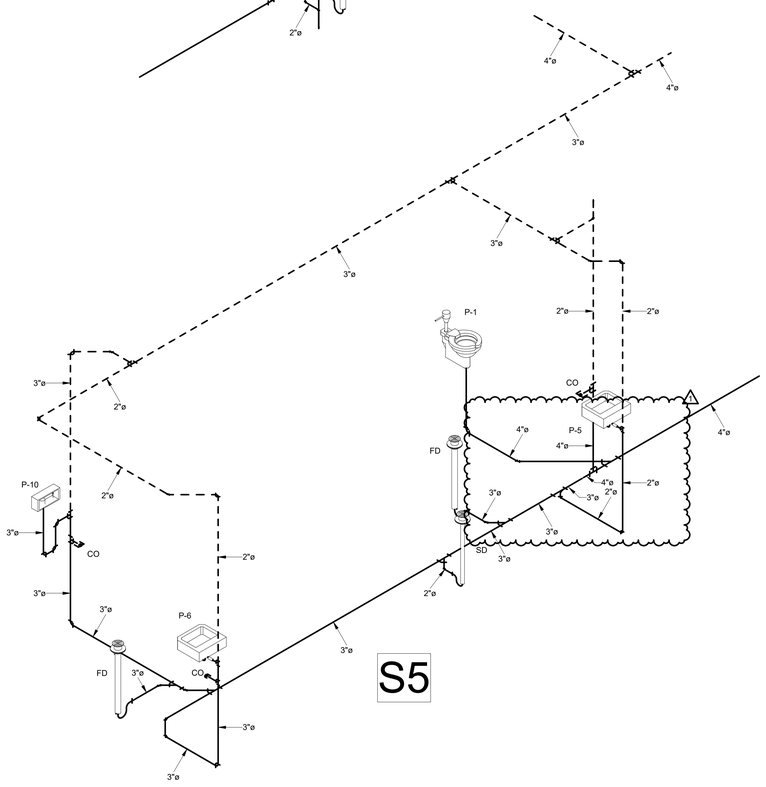

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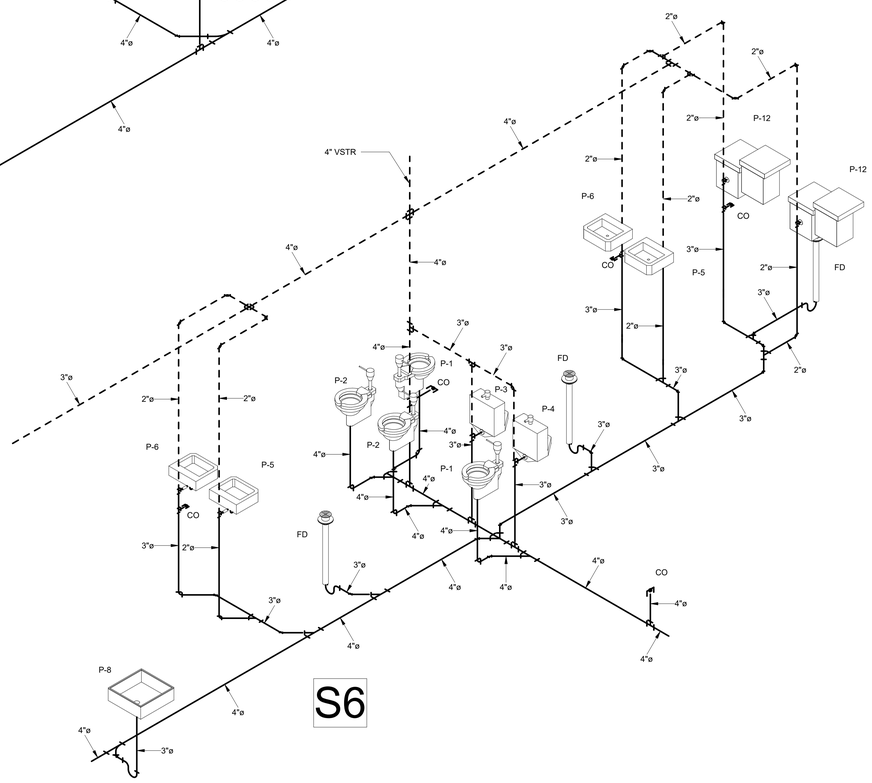

S6

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LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

ALABAMA
No. 24747
PROFESSIONAL
07-16-24
ENGINEER
WADE STEWART

SHEET TITLE:
NON-PRESSURE - RISERS

PROJ. MGR.:	– SMC
DRAWN:	ZDE
DATE:	– 07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
P3.0

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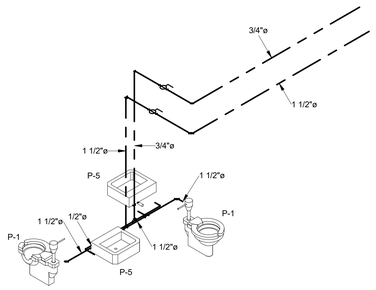

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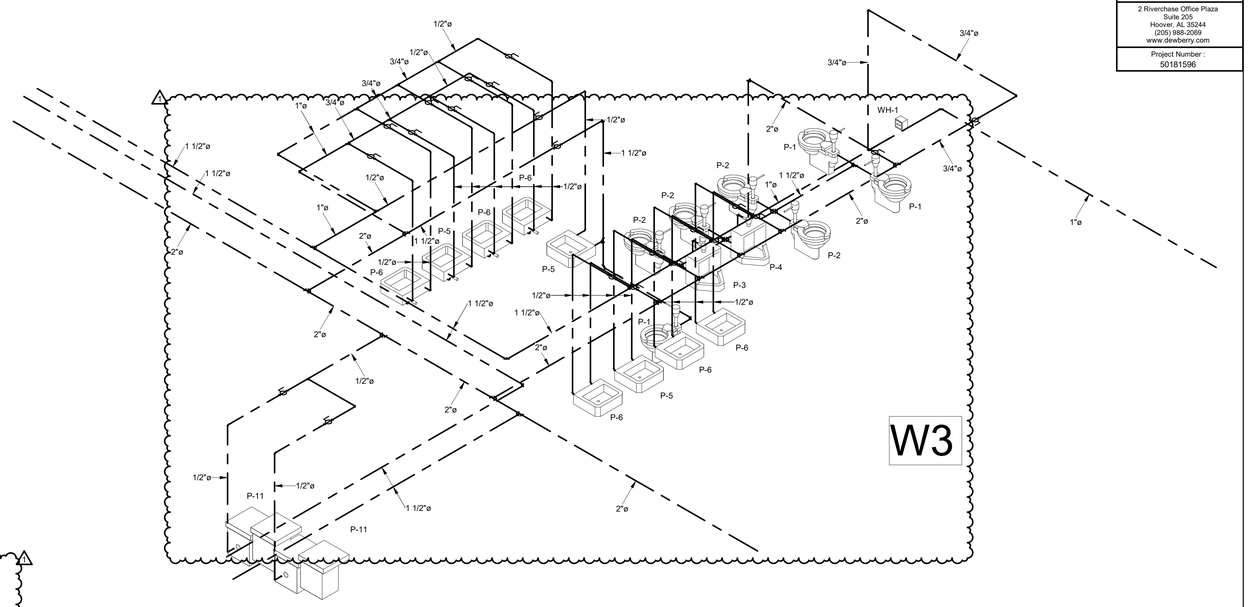

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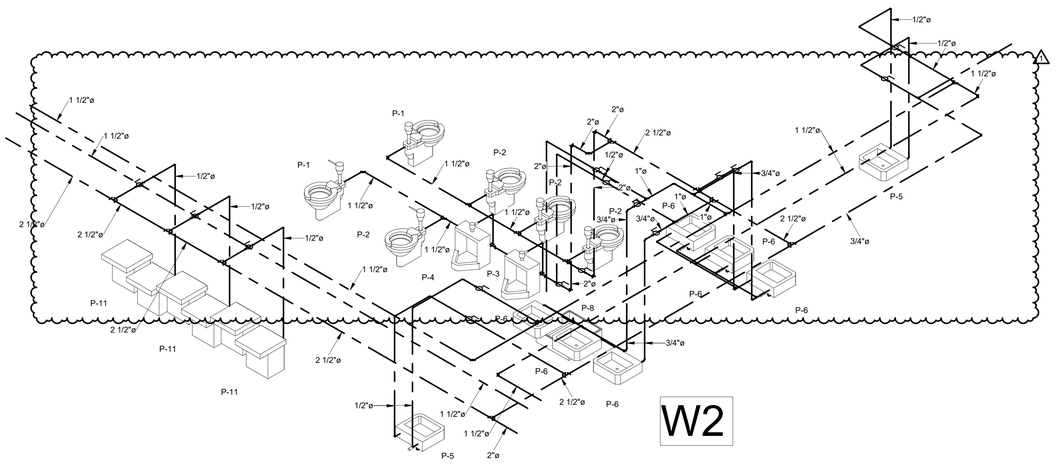

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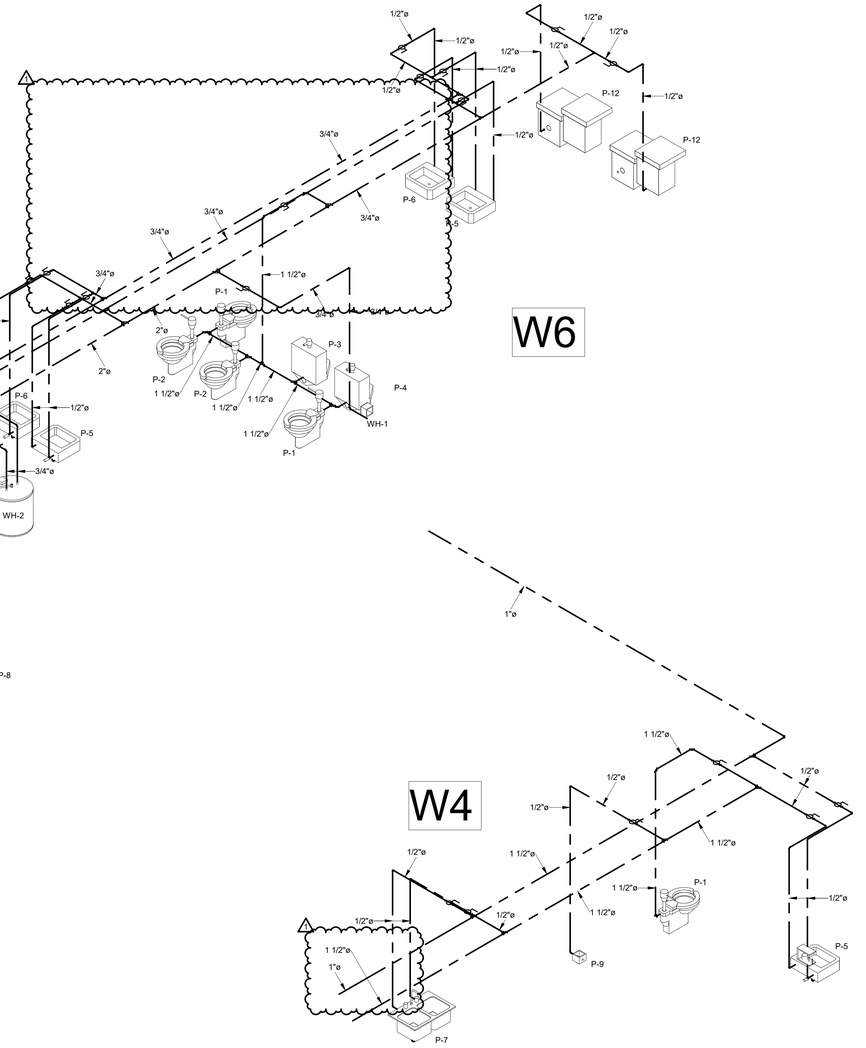

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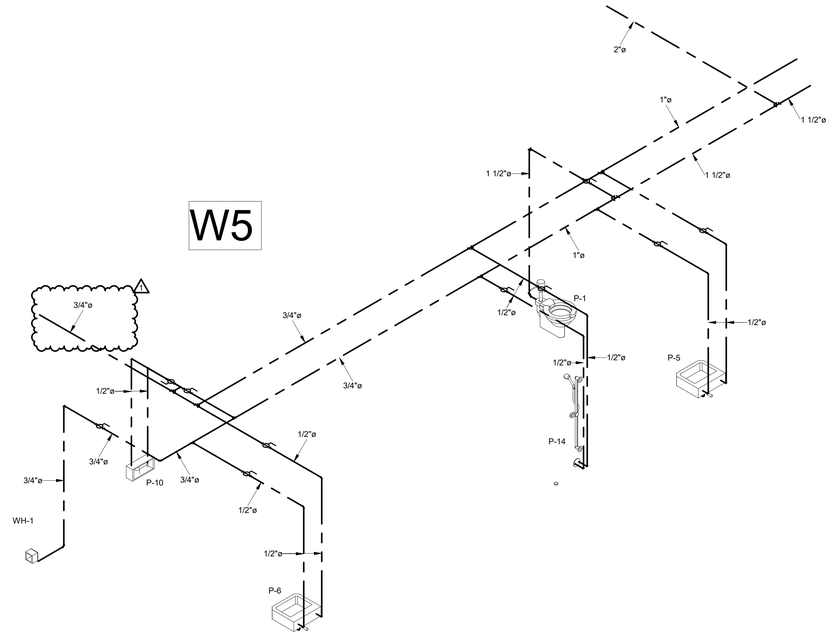


W5

W4

SHEET TITLE:
PRESSURE - RISERS

PROJ. MGR.: –		SMC
DRAWN:		ZDE
DATE: –		07/16/24
REVISIONS		
1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
P3.1

SECURITY

Symbol	Description
B	BELL
CR	CARD READER
	CCTV CAMERA - CEILING
	CCTV CAMERA - WALL
MTV	CCTV MONITOR
CCTV	CCTV OUTLET - POWER SUPPLY
B	DOOR BUZZER
DC	DOOR CONTACT
DL	ELECTRIC DOOR LOCK-HINGE OR MOTORIZED BOLT
ML	ELECTRIC DOOR MOTOR LOCK
ES	ELECTRIC DOOR STRIKE
●	PUSH BUTTON
S	HORN SPEAKER - CEILING
S	HORN SPEAKER - WALL
IC	INTERCOM CALL STATION
DS	INTERCOM DUTY STATION
MI	INTERCOM MASTER STATION
KP	KEYPAD
MD	MOTION DETECTOR
SCP	SECURITY CONTROL PANEL
J CR	JUNCTION BOX - WALL MOUNTED. FUTURE CARD READER WITH 3/4" EMPTY CONDUIT TO ABOVE ACCESSIBLE CEILING.
J KP	JUNCTION BOX - WALL MOUNTED. FUTURE KEY PAD WITH 3/4" EMPTY CONDUIT TO ABOVE ACCESSIBLE CEILING.

AUDIO - VISUAL

Symbol	Description
A	AMPLIFIER
	TV ANTENNA
C	CAMERA
M	MICROPHONE OUTLET, CEILING MOUNTED
M	MICROPHONE OUTLET, WALL MOUNTED
M	MICROPHONE OUTLET, FLOOR MOUNTED
C	COMBINATION WALL MOUNTED CLOCK & DIGITAL DISPLAY
S C	COMBINATION WALL MOUNTED CLOCK, DIGITAL DISPLAY, SPEAKER & MICROPHONE
IC	INTERCOM CALL-IN STATION
MI	INTERCOM MASTER STATION
	EQUIPMENT RACK
S	SPEAKER, CEILING MOUNTED, FLUSH ('S' DENOTES SURFACE MOUNTED)
SM	SPEAKER WITH INTERCOMM MICROPHONE, CEILING MOUNTED
TV	TV / MONITOR
VC	VOLUME CONTROL
S	SPEAKER, WALL MTD, FLUSH ('S' DENOTES SURFACE MOUNTED)
P	PROJECTOR
V	VIDEO CONNECTOR OUTLET, CEILING MOUNTED
V	VIDEO CONNECTOR OUTLET, WALL MOUNTED
V	VIDEO CONNECTOR OUTLET, FLOOR MOUNTED
A	AUDIO CONNECTOR OUTLET, CEILING MOUNTED
A	AUDIO CONNECTOR OUTLET, WALL MOUNTED
A	AUDIO CONNECTOR OUTLET, FLOOR MOUNTED
S	SPEAKER CONNECTOR OUTLET, FLOOR MOUNTED
A V M	MULTI-SERVICE WALL BOX
A V M	MULTI-SERVICE FLOOR BOX
A/V	AUDIO/VIDEO POKE-THRU

STANDARD WALL MOUNTING HEIGHTS

DEVICE OR EQUIPMENT TYPE	MOUNTING HEIGHT (AFF/AFG)	MEASURED TO	NOTES
PANELBOARDS	78"	TOP	1, 3
PLUGMOLD AND WIREMOLD	SEE NOTES	TOP	1, 4
RECEPTACLES - NORMAL AREAS	18"	CENTER	1
RECEPTACLES - ABOVE COUNTER	SEE NOTES	TOP	1, 4
RECEPTACLES - EXTERIOR AREAS	18"	CENTER	1
RECEPTACLES - UNDER COUNTER	18"	CENTER	1
SAFETY SWITCHES	78"	TOP	1, 3
SENSORS - WALL MOUNTED	96"	TOP	1, 2
ENCLOSED CIRCUIT BREAKERS	78"	TOP	1, 3
FA NOTIFICATION DEVICES	84"	BOTTOM	1
FA PULL STATIONS	48"	TOP	1
LIGHT SWITCHES	48"	TOP	1
AV, COAX, DATA & TELECOM	18"/ SEE NOTES	CENTER	1, 4
DOOR ACCESS & CONTROLS	48"	TOP	1
VARIABLE FREQUENCY DRIVES	78"	TOP	1, 3
WALL PHONE	48"	TOP	1
MOTOR STARTERS	78"	TOP	1, 3
CLOCKS	90"	CENTER	1
CARD READERS	48"	TOP	1
INTERCOMM CALL INS	48"	TOP	1
WALL EXIT/ EMERGENCY FIXTURE	90"	CENTER	1

△1

NOTES:

1. UNLESS NOTED OTHERWISE. WALL MOUNTING HEIGHTS INDICATED ON DRAWINGS OR DETAILS SHALL SUPERSEDE STANDARD WALL MOUNTING HEIGHTS LISTED HERE. COORDINATE ALL DEVICE LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO INSTALLATION. ADJUST TO MATCH MASONRY COURSES, IF APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB.
2. CEILING HEIGHT PERMITTING, OTHERWISE MOUNT 12" BELOW CEILING TO TOP OF BOX.
3. MOUNTING HEIGHT AS MEASURED TO TOP OF ENCLOSURE OR CENTER OF OPERATING HANDLE AT HIGHEST POSITION, WHICHEVER IS HIGHER. STACKING OF SAFETY SWITCHES, ENCLOSED CIRCUIT BREAKERS AND MOTOR STARTERS IS PERMITTED.
4. MOUNT 6" ABOVE COUNTERTOP OR BACKSPLASH (IF APPLICABLE) TO TOP OF BOX. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO INSTALLATION.

TELE/DATA

Symbol	Description
	DATA OUTLET AT CEILING FOR WIRELESS ACCESS POINT. 1 DATA CONNECTION.
▷	DATA OUTLET, 2 DATA CONNECTION.
▶	TELEPHONE OUTLET, 1 VOICE CONNECTION.
W ▶	WALL TELEPHONE WITH CONDUIT, TO ABOVE ACCESSIBLE CEILING U.O.N. 1 VOICE CONNECTION. TO BE MOUNTED AT 4'-6" AFF
#V #D	VOICE/DATA OUTLET WITH CONDUIT STUBBED ABOVE ACCESSIBLE CEILING U.O.N.
#V #D AC	ABOVE COUNTER VOICE/DATA OUTLET WITH CONDUIT STUBBED ABOVE ACCESSIBLE CEILING U.O.N.
#V #D	VOICE/DATA OUTLET WITH FLEXIBLE FURNITURE CONNECTION AND CONDUIT STUBBED ABOVE ACCESSIBLE CEILING U.O.N.
☎	EMERGENCY PHONE
	WALL MOUNTED DATA RACK/CABINET
	FLOOR MOUNTED DATA RACK/CABINET
TBB	BACKBOARD, 4'X8'X3/4" PLYWOOD WITH 2 COATS OF FIRE RETARDENT BLUE ENAMEL PAINT.
T	CONDUIT WITH NYLON FISH CORD
T	CONDUIT WITH NYLON FISH CORD AND BUSHINGS TO NEAREST V/D PATHWAY.

TELE/DATA CONDUIT SIZING CHART	
TOTAL NUMBER OF CABLES	CONDUIT SIZE
1-6	1"C.
6-12	1 1/4"C.

NOTES

1. CONDUIT SIZES ARE BASED ON NEC 40% FILL CAPACITY WITH CAT6e CABLES.
2. #V AND #D DENOTE THE NUMBER OF VOICE AND DATA CABLES RESPECTIVELY.
3. PROVIDE 2 GANG BOX WITH 1 GANG PLASTER RING FOR ALL OUTLETS.
4. ALL VOICE/DATA OUTLETS ARE TO HAVE TWO (2) VOICE AND TWO (2) DATA CONNECTIONS U.O.N.
   ALL VOICE ONLY OUTLETS ARE TO HAVE TWO (2) VOICE CONNECTIONS U.O.N.
   ALL DATA ONLY OUTLETS ARE TO HAVE TWO (2) DATA CONNECTIONS U.O.N.
5. ALL VOICE/DATA CABLES SHALL BE CAT6e.

FIRE ALARM

DETECTION / INITIATION

Symbol	Description
	DUCT SMOKE DETECTOR WITH REMOTE LED INDICATOR WHERE REQUIRED. 'R' - RETURN, 'S' - SUPPLY
FS	FIRE ALARM FLOW SWITCH
TS	FIRE ALARM TAMPER SWITCH
F	FLAME DETECTOR - FLAME
	HEAT DETECTOR
	SMOKE DETECTOR
CO	CARBON MONOXDIDE
F	FIRE ALARM PULL BOX

CONTROLS AND SUPERVISORY

Symbol	Description
R	RELAY
CM	CONTROL MODULE WITH RELAY
MM	MONITOR MODULE

PANELS

Symbol	Description
	CONTROL PANEL - BASIC SHAPE
HVAC	CONTROL PANEL FOR HVAC EQUIPMENT
FAA	FIRE ALARM ANNUNCIATOR
FAC	FIRE ALARM COMMUNICATOR
FACP	FIRE ALARM CONTROL PANEL SURFACE OR FLUSH MOUNTED. (AS SHOWN ON PLANS).
NAC	FIRE ALARM NAC
FATC	FIRE ALARM TERMINAL CABINET
FTR	FIRE ALARM TRANSPONDER
SAP	SPRINKLER ALARM PANEL
EVAC	VOICE EVACUATION PANEL

NOTIFICATION

Symbol	Description
■	FIRE ALARM DOOR HOLDER
F	FIRE ALARM MINI HORN
F	FIRE ALARM SPEAKER - WALL
F	FIRE ALARM SPEAKER - CEILING
F	FIRE ALARM STROBE
F	FIRE ALARM - COMBINATION SPEAKER AND STROBE.
F	FIRE ALARM STROBE - CEILING
F	FIRE ALARM - COMBINATION SPEAKER AND STROBE - CEILING
MIC	REMOTE MIC FOR EVACUATION
RTS	REMOTE TEST SWITCH
	REMOTE LED INDICATOR

BRANCH CIRCUITS

Symbol	Description
	CONCEALED IN CEILING, WALL, OR IN CEILING SLAB.
	CONCEALED IN OR BELOW FLOOR OR UNDERGROUND.
	EXPOSED.
E	EMERGENCY.
O	EMPTY CONDUIT, 3/4" UNLESS OTHERWISE NOTED WITH NYLON PULL CORD.
SF	CONDUIT SEAL FITTING.
	HOMERUN TO PANELBOARD AND 20A, 1P BREAKER, UON.

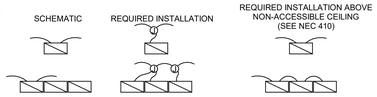
NOTE: SHOWN 2#12 AND 1#12(G)-3/4"C,

Symbol	Description
///	3#12 AND 1#12(G)-3/4"C
////	4#12 AND 1#12(G)-3/4"C
10	2#10 AND 1#10(G)-3/4"C
10 ///	3#10 AND 1#10(G)-3/4"C

SIZE CONDUIT PER NEC FOR GREATER NUMBER OF CONDUCTORS OR AS NOTED. THE NUMBER IN THE CIRCUIT INDICATES AWG WIRE SIZE AND HASHMARKS INDICATE NUMBER OF WIRES REQUIRED. GROUND WIRE SHALL BE SIZED IN ACCORDANCE WITH NEC TABLE 250-122. NUMBER OF HASHMARKS DO NOT INCLUDE GROUND WIRE.

Symbol	Description
●	RISER: UP, RUNNING TO SOURCE.
○	RISER: DOWN, RUNNING TO SOURCE.

BRANCH CIRCUIT WIRING FOR LIGHTING IS SHOWN SCHEMATICALLY.
EACH LUMINAIRE IS TO BE INSTALLED WITH AN INDIVIDUAL FLEXIBLE CONNECTION.
FOR EXAMPLE:



PANELBOARDS

Symbol	Description
	LIGHTING & APPLIANCE ELECTRICAL PANEL: SEE PANELBOARD SCHEDULE AND SPECIFICATIONS.
	POWER DISTRIBUTION ELECTRICAL PANEL: SEE PANELBOARD SCHEDULE AND SPECIFICATIONS.
	ELECTRICAL SWITCHBOARD OR SWITCHGEAR: SEE PANELBOARD SCHEDULE AND SPECIFICATIONS.

RECEPTACLES

NOTE:

ALL 15-AND 20-AMPERE, 125-AND 250-VOLT NONLOCKING-TYPE RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS OTHERWISE NOTED BELOW. SEE NEC 406.12.

EXCEPTIONS:

1. RECEPTACLES LOCATED MORE THAN 5 1⁄2 FT ABOVE THE FLOOR
2. RECEPTACLES THAT ARE PART OF A LUMINAIRE OR APPLIANCE.
3. A SINGLE RECEPTACLE, OR A DUPLEX RECEPTACLE FOR TWO APPLIANCES, LOCATED WITHIN THE DEDICATED SPACE FOR EACH APPLIANCE THAT, IN NORMAL USE, IS NOT EASILY MOVED FROM ONE PLACE TO ANOTHER AND THAT IS CORD-AND-PLUG-CONNECTED IN ACCORDANCE WITH NEC 400.10(A)(6), (A)(7), OR (A)(8).

WALL MOUNTED

Symbol	Description
	DUPLEX RECEPTACLE - NEMA 5-20R
	RECEPTACLE - MTD ABOVE COUNTER - NEMA 5-20R
	SPLIT WIRED RECEPTACLE - NEMA 5-20R
IG	ISOLATED GROUND RECEPTACLE - NEMA 5-20R IG
	GROUND FAULT RECEPTACLE - NEMA 5-20R GF
	GROUND FAULT RECEPTACLE - MTD ABOVE COUNTER - NEMA 5-20R GF
WP	WEATHER PROOF RECEPTACLE - NEMA 5-20 GF, TR, WR W/ IN-USE EXTRA DUTY WET LOCATION COVER △1
	QUADRUPLEX GROUND FAULT RECEPTACLE - NEMA 5-20R GF
	QUADRUPLEX GROUND FAULT RECEPTACLE - MTD ABOVE COUNTER - NEMA 5-20R GF
	QUADRUPLEX RECEPTACLE - NEMA 5-20R
	QUADRUPLEX RECEPTACLE - MTD ABOVE COUNTER - NEMA 5-20R
	SIMPLEX RECEPTACLE - NEMA 5-20R
	SIMPLEX RECEPTACLE - NEMA 5-20R, DEDICATED SERVICE/CIRCUIT
	SINGLE RECEPTACLE - EQUIPMENT CONNECTION OR PROVISION
	SINGLE RECEPTACLE - SPECIAL PURPOSE
	SINGLE RECEPTACLE - A=NEMA 5-30R; B=NEMA 6-30R; C=NEMA 14-30R
X	SINGLE RECEPTACLE - A=NEMA 5-50R; B=NEMA 6-50R; C=NEMA 14-50R
	MULTI-SERVICE WALL RECEPTACLE
USB	DUPLEX RECEPTACLE - NEMA 5-20R WITH TWO FULL OUTPUT USB PORTS
TL	SINGLE RECEPTACLE - TWISTLOCK, AS SPECIFIED.

CEILING MOUNTED

Symbol	Description
	DUPLEX RECEPTACLE - NEMA 5-20R
	DUPLEX RECEPTACLE - NEMA 5-20R, DEDICATED SERVICE/CIRCUIT
	SIMPLEX RECEPTACLE - NEMA 5-20R
	SINGLE RECEPTACLE - EQUIPMENT CONNECTION OR PROVISION
	SINGLE RECEPTACLE - SPECIAL PURPOSE

POWER

Symbol	Description
GA	GENERATOR ALARM / ANNUNCIATOR PANEL
	FAN / FAN-COIL UNIT
	PACKAGED AIR CONDITIONING UNIT
	ELECTRIC DUCT HEATER
	UNIT HEATER WITH FAN
	ELECTRIC BASEBOARD HEATER
H	ELECTRIC CABINET HEATER
☒	MAGNETIC MOTOR STARTER
☒	COMBINATION MAGNETIC STARTER & DISCONNECT SWITCH
R	RELAY
	ELECTRIC MOTOR
	DISCONNECT SWITCH, UNFUSED, 30A, 3P UNLESS OTHERWISE NOTED.
	DISCONNECT SWITCH, FUSED, 30A, 3P UNLESS OTHERWISE NOTED.
TS	TIME CLOCK SWITCH
VD	VARIABLE SPEED / VARIABLE FREQUENCY DRIVE
C	CONTACTOR
	CIRCUIT BREAKER, INDIVIDUALLY ENCLOSED
CP	CONTROL PANEL
ATS	AUTOMATIC TRANSFER SWITCH
MTS	MANUAL TRANSFER SWITCH
M	METER (WITH SOCKET ASSSEMBLY)
T	TRANSFORMER, GENERAL PURPOSE DRY-TYPE, REFER TO SCHEDULE
EPO	ABORT SWITCH - EMERGENCY POWER OFF
	POWER POLE

JUNCTION & OUTLET BOXES

Symbol	Description
J	JUNCTION BOX - CEILING MOUNTED
V/D J	VOICE/DATA JUNCTION BOX - CEILING MOUNTED
J	JUNCTION BOX - FLOOR MOUNTED
J	JUNCTION BOX - WALL MOUNTED
J	OUTLET BOX - WALL MOUNTED, WITH FLEXIBLE HARD WIRED CONNECTION TO EQUIPMENT
V/D J	OUTLET BOX - WALL MOUTNED, VOICE/DATA WITH FLEXIBLE HARD WIRED CONNECTION TO EQUIPMENT
J	OUTLET BOX - FLOOR MOUNTED, WITH FLEXIBLE HARD WIRED CONNECTION TO EQUIPMENT

POWER AND AUXILIARY - FLOOR OUTLETS

POUR IN PLACE (FLUSH UNLESS OTHERWISE NOTED)

Symbol	Description
	NEMA 5-20R DUPLEX RECEPTACLE.
	30A RECEPTACLE
	50A RECEPTACLE
	SPECIAL-PURPOSE RECEPTACLE
#V #D	MULTI-SERVICE W/ NEMA 5-20R DUPLEX RECEPTACLE & VOICE/DATA OUTLET #V AND #D INDICATE NUMBER OF VOICE DATA OUTLETS.
FP	MULTI-SERVICE FLOOR POCKET W/ NEMA 5-20R RECEPTACLE VOICE/DATA, AND MICROPHONE OUTLETS. #V AND #D INDICATE NUMBER OF VOICE DATA OUTLETS.
	VOICE/DATA WITH FLEXIBLE CONNECTION TO EQUIPMENT
	DEVICE WITH DIRECT FLEXIBLE CONNECTION TO EQUIPMENT.

NOTE: VERIFY LOCATION OF EQUIPMENT PRIOR TO ROUGH-IN.

LIGHTING (SEE LUMINAIRE SCHEDULE)

CEILING-RECESSED

Symbol	Description
	RECESSED LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN
	RECESSED LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN. CRITICAL LIGHTING.
	RECESSED LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN. LIFE SAFETY EMERGENCY EGRESS LIGHTING.
	RECESSED LUMINAIRE
	RECESSED LUMINAIRE. CRITICAL LIGHTING.
	RECESSED LUMINAIRE. LIFE SAFETY EMERGENCY EGRESS LIGHTING.
	RECESSED WALL WASHER
	RECESSED WALL WASHER. CRITICAL LIGHTING.
	RECESSED WALL WASHER. LIFE SAFETY EMERGENCY EGRESS LIGHTING.

CEILING-SURFACE/PENDANT

Symbol	Description
	SURFACE OR STEM MOUNTED LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN.
	SURFACE OR STEM MOUNTED LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN. CRITICAL LIGHTING.
	SURFACE OR STEM MOUNTED LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN. CONNECTED TO LIFE SAFETY EMERGENCY POWER SYSTEM.
○	SURFACE OR PENDANT MOUNTED LUMINAIRE
	SURFACE OR PENDANT MOUNTED LUMINAIRE. CRITICAL LIGHTING.
●	SURFACE OR PENDANT MOUNTED LUMINAIRE. LIFE SAFETY EMERGENCY EGRESS LIGHTING.
	SURFACE MOUNTED WALL WASHING LUMINAIRE
	SURFACE MOUNTED WALL WASHING LUMINAIRE. CRITICAL LIGHTING.
	SURFACE MOUNTED WALL WASHING LUMINAIRE. LIFE SAFETY EMERGENCY EGRESS LIGHTING.
	SURFACE OR STEM MOUNTED STRIP LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN.
	SURFACE OR STEM MOUNTED STRIP LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN. CRITICAL LIGHTING.
	SURFACE OR STEM MOUNTED STRIP LUMINAIRE - SINGLE OR CONTINUOUS LENGTHS AS SHOWN. LIFE SAFETY EMERGENCY EGRESS LIGHTING.
	TRACK LIGHT WITH TRACK LENGTH AS NOTED OR SCHEDULED
	CEILING FAN
	EXIT SIGN - CEILING MOUNTED, SINGLE FACE WITH CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE
	EXIT SIGN - CEILING MOUNTED WITH EMERGENCY EGRESS LIGHT, SINGLE FACE WITH CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE
	EXIT SIGN - CEILING MOUNTED, DOUBLE FACE WITH CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE

WALL

Symbol	Description
	WALL MOUNTED SCONCE LUMINAIRE AS SCHEDULED
	WALL MOUNTED SCONCE LUMINAIRE. CRITICAL LIGHTING. AS SCHEDULED
	WALL MOUNTED SCONCE LUMINAIRE LIFE SAFETY EMERGENCY EGRESS LIGHTING. AS SCHEDULED
	WALL MOUNTED BRACKET, LINEAR OR STRIP LUMINAIRE
	WALL MOUNTED BRACKET, LINEAR OR STRIP LUMINAIRE - CRITICAL LIGHTING.
	WALL MOUNTED BRACKET, LINEAR OR STRIP LUMINAIRE - LIFE SAFETY EMERGENCY EGRESS LIGHTING.
	EXIT SIGN - BACK MOUNTED, SINGLE FACE WITH CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE
	EXIT SIGN - BACK MOUNTED WITH EMERGENCY EGRESS LIGHT, SINGLE FACE WITH CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE
	EXIT SIGN - END MOUNTED, DOUBLE FACE WITH CHEVRONS AS SHOWN. SEE LUMINAIRE SCHEDULE
	EMERGENCY EGRESS LIGHT.

LIGHTING - EXTERIOR

Symbol	Description
	BOLLARD
	GROUND MOUNTED SPOT, FLOOD OR WELL LIGHT
	POLE-ARM MOUNTED AREA LIGHT
	POLE-TOP MOUNTED AREA LIGHT
	WALL MOUNTED FLOOD OR AREA LIGHT

SWITCHES

Symbol	Description
$	SINGLE POLE SWITCH, 20A, 125/277V.
3$	THREE WAY SWITCH, 20A, 125/277V.
4$	FOUR WAY SWITCH, 20A, 125/277V.
2$	DOUBLE POLE SWITCH, 20A, 125/277V.
MC$	MOMENTARY CONTACT SWITCH, 1-POLE, 20A, 125/277V.
P$	PILOT LIGHT SWITCH (LIGHT ON WHEN IN 'ON' POSITION) 1-POLE, 20A, 125/277V.
L$	LIGHTED TOGGLE (LIGHT ON WHEN SWITCH IS 'OFF' POSITION) 1-POLE, 20A, 125/277V.
K$	KEY OPERATED SWITCH, 1-POLE, 20A, 125/277V.
T$	TIME SWITCH, 1-POLE, 20A, 125/277V.
LV	LOW VOLTAGE DIMMING SWITCH - "ON/OFF/RAISE-LOWER"
LV$	LOW VOLTAGE SWITCH - TWO BUTTON "ON/OFF"
M#$	MOTOR RATED SWITCH, 20A RATED UNLESS OTHERWISE NOTED, NUMERIC SUBSCRIPT INDICATES # OF POLES. 125/250/277/600V RATED.
MS#$	MANUAL MOTOR STARTER SWITCH, 20A RATED UNLESS OTHERWISE NOTED, NUMERIC SUBSCRIPT INDICATES # OF POLES. 125/250/277/600V RATED.
D$	DIMMER SWITCH, ON/OFF AND 0-10V DIMMING
TO	MOMENTARY PUSHBUTTON, 2-HOUR TIMED OVERRIDE
	VACANCY SENSOR, WALL MTD (MANUAL ON / AUTO OFF), SUBSCRIPT 'D' INDICATES DIMMING.
	OCCUPANCY SENSOR, WALL MTD (AUTO ON / AUTO OFF), SUBSCRIPT 'D' INDICATES DIMMING.
	VACANCY SENSOR, CEILING MTD (MANUAL ON / AUTO OFF)
	OCCUPANCY SENSOR, CEILING MTD (AUTO ON / AUTO OFF)
	DAYLIGHT SENSOR, CEILING MTD
PE	PHOTO-ELECTRIC / PHOTOCELL SWITCH
LM	LIGHTING CONTROL MODULE.
LE	LIGHTING CONTROL MODULE - EMERGENCY BYPASS, UL 924 LISTED.
RM	RECEPTACLE CONTROL MODULE.
LCP-XX	LIGHTING CONTROL PANEL, SURFACE MOUNTED / FLUSH MOUNTED AS SHOWN.

APPLICABLE BUILDING CODE:

2021 INTERNATIONAL BUILDING CODE (IBC)
2021 INTERNATIONAL PLUMBING CODE (IPC)
2021 INTERNATION MECHANICAL CODE (IMC)
2020 NATIONAL ELECTRICAL CODE (NFPA 70)
2021 INTERNATIONAL FIRE CODE (IFC)
ANSI/ASHRAE/IES STANDARD 90.1-2013 (WITH EXCEPTIONS PERMIITED TO:
    6.5.1 - ECONOMIZERS,
    8.4.2 - AUTOMATIC RECEPTACLE CONTROL
    8.4.3 - ELECTRICAL ENERGY MONITORING)
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
2020 ICC/NSSA-500 STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS
2019 NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72)

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NOTE:
AUTOMATIC RECEPTACLE CONTROLS IN ASHRAE 90. 1-2013 SECTION 8.4.2 AND ENERGY MANAGEMENT METERING IN ASHRAE 90.1-2013 SECTION 8.4.3 HAS BEEN TAKEN AS AN EXCEPTION FOR THIS PROJECT.

ELECTRICAL NOTES

1. THESE DRAWINGS ARE A PART OF A COMPLETE SET OF ARCHITECTURAL/ENGINEERING CONTRACT DOCUMENTS. ELECTRICAL CONTRACTOR SHOULD REFER TO THE ARCHITECTURAL DRAWINGS FOR ACTUAL LOCATION OF ITEMS WHERE SPECIFIED. SEE SAID CONFIGURATIONS FOR WALL DEFINITIONS, ELEVATIONS, CASEWORK, REFLECTED CEILING PLAN, ETC. ROUGH-IN INSTALLATIONS WHICH ARE NOT LOCATED ACCORDING TO THE ARCHITECTURAL ELEVATIONS SHALL BE RELOCATED AT NO ADDITIONAL COST.
2. CEILING CLEARANCES ARE CRITICAL FOR THIS PROJECT. GENERAL CONTRACTOR MUST COORDINATE ALL TRADES TO AVOID POTENTIAL INTERFERENCES. CONFLICTS BETWEEN TRADES SHALL BE REFERRED TO THE ARCHITECT FOR RESOLUTION.
3. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEC AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
4. ALL SYMBOLS SHOWN ON THIS LEGEND MAY NOT BE USED.
5. ALL PANELBOARDS ARE 3Ø 4W UNLESS OTHERWISE NOTED.
6. ALL BRANCH CIRCUIT CONDUIT SHALL BE 3/4" CONDUIT MINIMUM PER SPECIFICATIONS.
7. ALL CIRCUITS SHOWN CONCEALED SHALL BE RUN IN FURRED CEILING SPACES AND SHALL BE CONCEALED IN CONCRETE SLAB ONLY WHEN NO FURRED CEILING SPACE IS PROVIDED.
8. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.
9. ALL OUTLET BOXES MOUNTED BACK-TO-BACK IN WALLS SHALL HAVE SOUND INSULATING MATERIAL INSTALLED BETWEEN THE BOXES TO PREVENT SOUND TRANSMISSION FROM ONE ROOM TO THE OTHER.
10. ALL FLUSH MOUNTED PANELS SHALL HAVE 3-1" EMPTY CONDUITS STUBBED OUT ABOVE CEILING FOR FUTURE CIRCUITS.
11. ALL WALL OUTLETS NOT PROVIDED WITH A DEVICE BY THIS CONTRACTOR SHALL BE PROVIDED WITH BLANK WALL PLATES.
12. ALL BRANCH CIRCUITS SHALL INCLUDE A GREEN COVERED GROUND WIRE SIZED PER NEC OR AS SHOWN. CONNECT TO EACH DEVICE AND OUTLET BOX ON THE CIRCUIT AND TO THE PANELBOARD GROUND BUS. MULTIPLE WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL REQUIRE ONLY ONE GROUND WIRE. NUMBER OF WIRES SHOWN ON DRAWINGS DOES NOT INCLUDE GROUND WIRE.
13. FINAL EQUIPMENT CONNECTIONS - THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR & MATERIALS REQUIRED TO MAKE FINAL CONNECTIONS TO ALL EQUIPMENT FURNISHED BY THIS CONTRACTOR AND/OR EQUIPMENT FURNISHED BY OTHERS. VERIFY ALL REQUIREMENTS, CONDUCTOR SIZE, OVERCURRENT PROTECTION, PHASE, VOLTAGE, MOTOR ROTATION, ETC., WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE FUSED DISCONNECT IF REQUIRED BY MANUFACTURER.
14. FURNISH & INSTALL FIRE ALARM SYSTEM WHICH CONFORMS TO ALL NATIONAL, STATE, & LOCAL CODES. PROVIDE ADDITIONAL DEVICES AS REQUIRED. PROVIDE TO ARCHITECT A COMPLETE SET OF MANUFACTURER'S SYSTEM INSTALLATION PLANS INCLUDING RISER DIAGRAM, CONDUIT & WIRING, INTERCONNECTION DIAGRAMS, DEVICE LOCATIONS AND ALL REQUIRED CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS. PROVIDE CONDUIT & WIRING AS DIRECTED BY SYSTEM SUPPLIER. FIRE ALARM CONTRACTOR TO HOLD A CURRENT LICENSE TO CONDUCT BUSINESS ISSUED BY THE STATES FIRE MARSHAL'S OFFICE.
15. CONTRACTOR SHALL PROVIDE WARNING LABELS COMPLYING WITH NEC ARTICLE 110.16 ON NEW ELECTRICAL EQUIPMENT OR EXISTING EQUIPMENT THAT IS MODIFIED.
16. CONDUCTOR SIZES INDICATED ON THE DRAWINGS INCLUDE AMBIENT TEMPERATURE AND VOLTAGE DROP COMPENSATIONS. VOLTAGE DROP COMPENSATION INCLUDED IS UP TO 200' FOR 120/208V CIRCUITS AN 400' FOR 277/480V CIRCUITS. ADJUST CONDUCTOR SIZE TO LIMIT BRANCH CIRCUIT VOLTAGE DROP TO 3% IF INSTALLED FIELD LENGTHS ARE GREATER.
17. CONTRACTOR SHALL LABEL ALL PANELS WITH AVAILABLE FAULT CURRENT IN ACCORDANCE WITH NEC.
18. CONTRACTOR SHALL LABEL ELECTRICAL PANELBOARDS TO INDICATE THE DEVICE OR EQUIPMENT WHERE FEEDER ORIGINATES IN ACCORDANCE WITH NEC 408.4(B).
19. ALL BREAKERS IN SWITCHBOARD AND PANELBOARDS SHALL BE FULLY RATED. SERIES RATING IS NOT ALLOWED, UNLESS SPECIFICALLY NOTED.
20. FOR ALL CONDUITS PASSING THROUGH RATED WALLS: PROVIDE FIRESTOPPING FOR RACEWAYS PENETRATING THROUGH RATED WALLS IN ACCORDANCE WITH NEC 300.21. PROVIDE ACCORDINGLY TO MAINTAIN FLOOR AND/OR WALL FIRE ASSEMBLY DESIGN AS INDICATED ON THE ARCHITECTURAL DRAWINGS AND AS REQUIRED.
21. PROVIDE THE SERVICES OF A THIRD PARTY CONTRACTOR TO CONDUCT A RADIO SIGNAL STRENGTH TEST WITHIN THE BUILDING TO DETERMINE ID A TWO WAY RADIO SIGNAL ENHANCEMENT SYSTEM IS REQUIRED IN ACCORDANCE WITH NFPA 1:11:10 AND NFPA 72. TESTING SHALL BE TIMED AND COORDINATED WITH THE ARCHITECT AND AHJ SO THAT BUILDING ELEMENTS THAT MIGHT AFFECT THE FINAL SIGNAL STRENGTH ARE IN PLACE.

    IF THE TEST RESULTS DO NOT MEET THE REQUIREMENTS OF NFPA 1:11:10, NFPA 1221, AND/OR THE AHJ THEN PROVIDE A COMPLETE, APPROVED TWO WAY RADIO SIGNAL ENHANCEMENT SYSTEM WITHIN THE FACILITY TO MEET THE COVERAGE AS DEFINED BY NFPA 1221-9.6:

    PROVIDE THE FOLLOWING COVERAGE PER NFPA 1221-9.6:
    NFPA 1221-9.6.7.1 : RADIO COVERAGE: RADIO COVERAGE SHALL BE PROVIDED THROUGHOUT THE BUILDING AS A PERCENTAGE OF FLOOR AREA AS SPECIFIED IN SECTION BELOW THROUGH SECTION ON AMPLIFICATION COMPONENTS.

    NFPA 1221-9.6.8 : SIGNAL STRENGTH-9.6.8.1 INBOUND: A MINIMUM INBOUND SIGNAL STRENGTH SUFFICIENT TO PROVIDE USABLE VOICE COMMUNICATIONS, AS SPECIFIED BY AHJ, SHALL BE PROVIDED THROUGHOUT THE COVERAGE AREA. THE INBOUND SIGNAL LEVEL SHALL BE SUFFICIENT TO PROVIDE A MINIMUM OF DAQ 3.0 FOR EITHER ANALOG OR DIGITAL SIGNALS.

    NFPA 1221-9.6.8.2 : OUTBOUND: A MINIMUM OUTBOUND STENGTH SUFFICIENT TO PROVIDE USABLE VOICE COMMUNICATIONS, AS SPECIFIED BY AHJ, SHALL BE PROVIDED THEOUGHOUT THE COVERAGE AREA. THE OUTBOUND SIGNAL LEVEL SHALL BE SUFFICIENT TO PROVIDE A MINIMUM OF DAQ 3.0 FOR EITHER ANALOG OR DIGITAL SIGNALS.

    THE CONTRACTOR SAHLL INCLUDE IN THEIR BID PRICE AN ALLOWANCE OF $75,000 FOR THE SYSTEM DESIGN, PURCHASE, AND INSTALLATION OF ALL REQUIRED MATERIALS AND EQUIPMENT FOR THE SYSTEM. AN ALLOWANCE OF INCLUSION IN THE CONTRACT SUM IS SPECIFIED IN DIVISION ONE SUPPLEMENT, SECTION 01800 FOR THE COST OF THE SYSTEM. REFER TO THE DRAWINGS FOR GENERAL SYSTEM REQUIREMENTS AND PROVISIONS. SUPPLEMENTARY INSTRUCTIONS WILL BE ISSUED BY THE PROFESSIONAL TO PROVIDE A COMPLIANT SYSTEM AFTER REVIEW OF THE TEST RESULTS AS NECESSARY.

ABBREVIATIONS

A	AMPERES
AA	AMBIENT AIR COOLED
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERES INTERUPTING CAPACITY
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT RACEWAY
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CRKT/ CKTS	CIRCUITS △1
CTTS	CLOSED TRANSITION TRANSFER SWITCH
CU	COPPER
DIA	DIAMETER
EC	ELECTRICAL CONTRACTOR
EGB	EXTERNAL GROUND BUS
EM	EMERGENCY
EP	EXPLOSION PROOF
ERMS	ENERGY REDUCING MAINTENANCE SWITCH AS REQUIRED BY NEC 240.87
EWC	ELECTRIC WATER COOLER
FA	FORCED AIR COOLED
FMC	FLEXIBLE METAL CONDUIT
G	GROUND
GFPE	GROUND FAULT PROTECTION FOR EQUIPMENT
GFI OR GFCI	GROUND FAULT PROTECTION FOR PERSONNEL
H	MOUNTING HEIGHT TO CENTERLINE
HID	HIGH INTENSITY DISCHARGE
HP	HORSE POWER
IG	ISOLATED GROUND
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LT	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LSIA	BREAKER WITH LONG TIME, SHORT TIME, AND INSTANTANIOUS ADJUSTMENTS AND GROUND FAULT INDICATION ONLY
LSIG	BREAKER WITH LONG TIME, SHORT TIME, INTANTANIOUS, AND GROUND FAULT ADJUSTMENTS
MB	MAIN BREAKER
MLO	MAIN LUGS ONLY
MV	MEDIUM VOLTAGE
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
P	POLES
PF	POWER FACTOR
PH	PHASES
PVC	POLYVINYL CHLORIDE RACEWAY
RELT	REDUCED ENERGY LET THROUGH AS REQUIRED BY NEC 240.87
RGS	RIGID GALVANIZED STEEL
SPD	SURGE PROTECTIVE DEVICE
TBB	TELEPHONE BACKBOARD
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS
TR	TAMPER RESISTANT
TX	TRANSFORMER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
W	WIRES
WP	WEATHERPROOF, NEMA 3R.
EX	EXISTING TO REMAIN
XR	EXISTING, REMOVE
XRR	EXISTING, REMOVE & RELOCATE
XRL	EXISTING, RELOCATED
XRB	EXISTING, REMOVE DEVICE AND INSTALL BLANK COVER
XRP	EXISTING, REMOVE AND REPLACE W/ NEW

DRAWING CONVENTIONS

Symbol	Description
○	NEW WORK
EX	EXISTING TO REMAIN
XR	EXISTING TO REMOVE

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com

Project Number :
50181596

LATHAN
ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

Alfred Maiola III
No. 51403
07/16/2024
ALFRED MICHAEL MAIOLA III

SHEET TITLE:
ELECTRICAL LEGEND AND NOTES

PROJ. MGR.: –	AMM
DRAWN:	DB
DATE: –	07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
E0.1

0 1" 2"

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LUMINAIRE SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	VOLT	LAMP	WATT	COLOR TEMP	DESCRIPTION	COMMENTS / OPTIONS
A	METALUX LITHONIA HE WILLIAMS	24CZ2-45-UNV-L835-CD-1 2BLT4-45L-ADP-GZ10-LP835 LT24-L52-835-AF-L45-DIM-U	277	LED 4500 LM	36 W	3500 K	2X4 LED LAY-IN TROFFER, FROSTED ACRYLIC CURVED LENS.	
AE	METALUX LITHONIA HE WILLIAMS	24CZ2-45-UNV-L835-CD-1-EL14W 2BLT4-45L-ADP-GZ10-LP835-EL14L LT24-L52-835-AF-L45-DIM-U-EM/12W	277	LED 4500 LM	36 W	3500 K	2X4 LED LAY-IN TROFFER, FROSTED ACRYLIC CURVED LENS. EMERGENCY.	PROVIDE WITH EMERGENCY BATTERY PACK.
C	FC LIGHTING BROWNLEE LIGHTING HALO	FCW3800-UNV-35-CRI85-20L-BKE 7200-XX-L32-35K SMD14R-20-9S-WH-E-SMD14RTRXXX	277	LED 4000 LM	20 W	3500 K	SURFACE MOUNT ROUND EXTERIOR CANOPY LED LUMINAIRE, DIE-CAST ALUMINUM HOUSING. IP66 RATED. FLUSH LENS. MEDIUM LIGHT THROW DISTRIBUTION.	PROVIDE UNISTRUT MOUNTING SO THAT THERE IS NO PENETRATIONS ON THE ROOF CANOPY. PROVIDE EMERGENCY REMOTE BATTERY UNIT WHERE NOTED ON PLANS.
F	METALUX LITHONIA HE WILLIAMS	4SNLED-LD5-48SL-UNV-L835-CD-1-U-AIRCRAFT CABLE ZL1D-L48-5000LM-FST-MVOLT-35K-80CR-WH-ZACVH M100 75R-4-L50-8-35K-ACF/D48-DIM-UNV	277	LED 5000 LM	50 W	3500 K	AIRCRAFT CABLE SUSPENDED 48" LED STRIP LIGHT.	PROVIDE AIRCRAFT CABLE AND ALL REQUIRED MOUNTING HARDWARE. AIRCRAFT CABLE SHALL BE FIELD ADJUSTABLE.
FE	METALUX LITHONIA HE WILLIAMS	4SNLED-LD5-48SL-UNV-EL14W-L835-CD-1-U-AIRCRAFT CABLE ZL1D-L48-5000LM-FST-MVOLT-35K-80CR-E7W-WH-ZACVH M100 75R-4-L50-8-35K-EM10WLP-ACF/D48-DIM-UNV	277	LED 5000 LM	50 W	3500 K	AIRCRAFT CABLE SUSPENDED 48" LED STRIP LIGHT.	PROVIDE AIRCRAFT CABLE AND ALL REQUIRED MOUNTING HARDWARE. PROVIDE BATTERY BACKUP. AIRCRAFT CABLE SHALL BE FIELD ADJUSTABLE.
FWE	METALUX LITHONIA HE WILLIAMS	4SNLED-LD5-48SL-UNV-EL14W-L835-CD-1-U ZL1D-L48-5000LM-FST-MVOLT-35K-80CR-E7W-WH 75R-4-L50-8-35K-EM10WLP-DIM-UNV	277	LED 4800 LM	35 W	3500 K	WALL MOUNTED 48" LED STRIP LIGHT	SURFACE MOUNT ABOVE DOOR AND PROVIDE ALL MOUNTING ACCESSORIES, PROVIDE EMERGENCY BATTERY BACKUP.
G	LITHONIA HE WILLIAMS METALUX	IBG 24000LM SEF ACL GND MVOLT GZ10 35K 80CRI WGIBG24 IBAC120M100 GH-4-L240/835-FA-GC2-Y18-10-WG11-DIM-UNV OHBL-245E-W-UNV-L835-CD-U/OHB-WG162-Y-TOGGLE10-U	277	LED 24000 LM	144 W	3500 K	2X4 LED HIGH BAY FIXTURE MOUNTED FROM THE STRUCTURE VIA AIRCRAFT CABLES.	PROVIDE WIRE GUARD AND AIRCRAFT CABLES. MOUNT SO THAT FIXTURES ARE 20'-0" AFF. PROVIDE UNISTRUT AS REQUIRED FOR MOUNTING.
GE	LITHONIA HE WILLIAMS METALUX	IBG 24000LM SEF ACL GND MVOLT GZ10 35K 80CRI IE20WCPHE WGIBG24 IBAC120M100 GH-4-L240/835-FA-EM20W-GC2-Y18-10-WG11-DIM-UNV OHBL-245E-W-UNV-L835-EL20W-CD-U/OHB-WG162-Y-TOGGLE10-U	277	LED 24000 LM	144 W	3500 K	2X4 LED HIGH BAY FIXTURE MOUNTED FROM THE STRUCTURE VIA AIRCRAFT CABLES.	PROVIDE EMERGENCY BATTERY, WIRE GUARD, AND AIRCRAFT CABLES. MOUNT SO THAT FIXTURES ARE 20'-0" AFF. PROVIDE UNISTRUT AS REQUIRED FOR MOUNTING.
SL-4	LITHONIA SIGNIFY MCGRAW-ED/HAPCO	DSX0 LED P4 40K 80CRI T4M MVOLT RPA HS DBLXD / RTS-2S-5-9B-DM49AS-DDBXD OPF-S-A03-P05-830-T4M-BLC-AR1-277-BK / 06TRS-11-D4-XX GALN-SA2B-735-U-T4-XX-HSS / RTS25B61-4-XX	277	LED 11000 LM	556 W	4000 K	LED AREA LIGHT FOUR HEAD TYPE 4 DISTRIBUTION ON 25' ROUND TAPERED POLE. BLACK FINISH.	INSTALL POLE PER DETAIL. CONFIRM COLOR FINISH WITH ARCHITECT TO MATCH EXISTING SITE LIGHTING. PRIOR TO ORDERING, CONFIRM EXISTING SITE LIGHTING POLE HEIGHT MATCHES THE 25' POLE (27'-5" TOTAL WITH BASE). WHERE THERE IS A DISCREPANCY, NOTIFY ARCHITECT AND AWAIT SUPPLEMENTAL INSTRUCTION.
W1	LITHONIA SIGNIFY NLS LIGHTING	WEDGE2 LED P2 40K 80CRI VF MVOLT DBLXD GWM-A06-840-T4M-277-BK TWA-T4-16L-35-35K8-UNV-WM-XX	277	LED 2000 LM	15 W	4000 K	WALL MOUNTED LED LUMINAIRE, DIE CAST ALUMINUM HOUSING, TYPE IV DISTRIBUTION, BLACK FINISH.	COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
WE	LITHONIA SIGNIFY NLS LIGHTING	WEDGE2 LED P2 40K 80CRI VF MVOLT E20WC DBLXD GWM-A06-840-T4M-277-EC-BK TWA-T4-16L-35-35K8-UNV-WM-EM8-XX	277	LED 2000 LM	15 W	4000 K	WALL MOUNTED LED LUMINAIRE, DIE CAST ALUMINUM HOUSING, TYPE IV DISTRIBUTION, BLACK FINISH. EMERGENCY.	PROVIDE EMERGENCY BATTERY PACK. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
X1	LITHONIA HE WILLIAMS EXITRONIX	LHQM-LED-R/HO EXIT/EM/LED-R-WHT-HL-D QCSS-R-WH	277	LED 1100 LM	5 W	3500 K	WALL/CEILING MOUNTED COMBINATION EXIT SIGN AND EMERGENCY EGRESS LIGHT. EGRESS LIGHTING HEADS SHALL BE HIGH OUTPUT TYPE AND INTEGRAL TO THE FIXTURE. REMOVABLE DIRECTIONAL ARROWS AND REMOVABLE 2ND BACK EXIT FACE.	WALL/CEILING MOUNT AS SHOWN ON FLOOR PLANS. WHERE SHOWN WALL MOUNTED, SEE STANDARD ELEVATIONS FOR HEIGHTS. PROVIDE BATTERY BACKUP AND INTEGRAL EGRESS LAMPS.

LUMINAIRE SCHEDULE NOTES:

1. MANUFACTURER CATALOG NUMBERS ARE SHOWN FOR GENERAL DESCRIPTIVE PURPOSES AND TO ESTABLISH STANDARD OF QUALITY ONLY. PROVIDE LUMINAIRES COMPLETE WITH ALL OPTIONS AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. ALL PRODUCTS SHALL BE UL LISTED. ALL SUBSTITUTION REQUEST SHALL BE SUBMITTED FOR REVIEW PRIOR TO BID PER SPECIFICATIONS.

2. VERIFY CONSTRUCTION OF CEILINGS BEING INSTALLED AND PROVIDE THE LUMINAIRES SPECIFIED IN APPROPRIATE CONFIGURATION WITH ALL HARDWARE AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

3. PROVIDE LUMINAIRES WITH JOINING PLATES, END CAPS, CANOPIED, MOUNTING HARDWARE, ETC. AS REQUIRED FOR COMPLETE INSTALLATION.

4. EXIT LIGHTS SHALL BE PROVIDED WITH COLOR OF LETTERS REQUIRED BY LOCAL CODE AUTHORITY. FURNISH WITH CHEVRON DIRECTIONAL INDICATORS AS INDICATED AND REQUIRED.

5. PROVIDE DEVICES FOR SECURING LAY-IN TYPE LUMINAIRES TO CEILING GRID TO COMPLY WITH ARTICLE 410 OF THE NATIONAL ELECTRIC CODE.

6. FURNISH LINEAR LUMINAIRES IN CONTINUOUS ROWS OR PATTERNS AS INDICATED ON DRAWINGS. PROVIDE WITH CORNER, ANGLE AND END PIECES AS REQUIRED FOR A COMPLETE INSTALLATION.

7. FURNISH LUMINAIRES IN MECHANICAL SPACES COMPLETE WITH PENDANT STEMS OR CHAIN HANGERS AS REQUIRED TO MOUNT BELOW PIPING, DUCT, CONDUIT, ETC. MAINTAIN UNIFORM MOUNTING HEIGHT FOR ALL LUMINAIRES THROUGHOUT THE MECHANICAL AREA.

8. PENDANT MOUNTED LUMINAIRES WITH AIRCRAFT CABLE SUSPENSION SYSTEMS SHALL BE FURNISHED WITH ADJUSTABLE CABLE GRIP HARDWARE. CABLE SIZE SHALL BE SELECTED MY MANUFACTURER TO PROVIDE ADEQUATE SUPPORT OF LUMINAIRES SPECIFIED.

9. EMERGENCY BATTERY PACKS FOR LED LUMINAIRES SHALL OPERATE FOR 90 MINUTES MINIMUM.

10. LED FIXTURES: TO INSURE A FIXTURE WILL PERFORM "AS ADVERTISED" ON A CUT SHEET, THE PUBLISHED SPECIFICATION SHALL BE SUPPORTED BY LM-79 TEST RESULTS. LED FIXTURES WHICH ARE BUILT USING LED'S SHALL HAVE SUCCESSFULLY PASSED LM-80. LED'S SHALL YIELD A LM-80 RESULT OF A MINIMUM OF 70% OF THE ORIGINAL LIGHT OUTPUT OF THE LED STILL BEING DELIVERED AFTER 50,000 HOURS OF OPERATION. THE POWER SUPPLY UNIT (DRIVER) SHALL HAVE 150,000 HOURS MTBF (MEAN TIME BETWEEN FAILURES). AN INTEGRATED BATTERY BACKUP SOLUTION FOR THE LED FIXTURE IS REQUIRED. REPLACEABLE LED BOARDS TO ALLOW FIXTURE UPGRADE.

11. VERIFY CONSTRUCTION OF CEILINGS BEING INSTALLED AND PROVIDE THE LUMINAIRES SPECIFIED IN APPROPRIATE CONFIGURATION WITH ALL HARDWARE AND ACCESSORIES REQUIRED FOR COMPATIBLE INSTALLATION.

12. PROVIDE FUSES FOR UNGROUNDED CONDUCTORS SUPPLYING LED DRIVERS, PROVIDE FUSED SIZED FOR RATING OF LED DRIVER.

13. POLE MANUFACTURER SHALL COORDINATE WITH LUMINAIRE MANUFACTURER TO PROVIDE ADEQUATE STRENGTH TO SUPPORT THE FIXTURE. PROVIDE APPROPRIATE MOUNTING HARDWARE, ANCHOR BOLTS, BOLT/BASEPLATE COVERS AND GROUNDING LUG. MANUFACTURER SHALL FURNISH AN ANCHOR BOLT TEMPLATE TO ENSURE PROPER MOUNTING AND LUMINAIRE ORIENTATION FOR CORRECT LIGHT DISTRIBUTION.

LCP-1 SCHEDULE

Relay	Panel	Circuit Number	Location Description	LOCAL CONTROL
1	LP-2	28	PARKING LOT	EXTERIOR OVERRIDE SWITCH
2	LP-2	39	NORTH EXTERIOR WALL	EXTERIOR OVERRIDE SWITCH
3	LP-2	38	NORTH EXTERIOR WALL	EXTERIOR OVERRIDE SWITCH
4	LP-2	37	NORTH EXTERIOR WALL	EXTERIOR OVERRIDE SWITCH

LCP-G SCHEDULE

Relay	Panel	Circuit Number	Location Description	LOCAL CONTROL
1	MP-G	2	GYM LIGHTING	2 HOUR TIMED OVERRIDE SWITCH
2	MP-G	7	GYM EXTERIOR WALLS	EXTERIOR OVERRIDE SWITCH

LIGHTNING CONTROL PANEL NOTES FOR EACH LCP:

A. LIGHTING CONTROL PANEL SHALL HAVE A MINUMUM 7-DAY CLOCK.

B. LIGHTING CONTROL PANEL SHALL BE CAPABLE OF BEING SET FOR SEVEN DIFFERENT DAY TYPES PER WEEK.

C. LIGHTING CONTROL PANEL SHALL INCORPORATE AN AUTOMATIC HOLIDAY "SHUTOFF" FEATURE, WHICH TURNS OFF ALL CONTROLLED LIGHTING LOADS FOR AT LEAST 24 HOURS AND THEN RESUMES NORMALLY SCHEDULED OPERATIONS.

D. EACH LIGHTING CONTROL PANEL SHALL HAVE A PROGRAM BACKUP CAPABILITIES, WHICH PREVENT THE LOSS OF PROGRAM AND TIME SETTINGS FOR AT LEAST 10 HOURS, IF PROGRAM IS INTERRUPTED.

E. PROVIDE AT A MINIMUM FOUR (4) SPARE RELAYS IN EACH LIGHTING CONTROL PANEL.

F. OVERRIDE SWITCHES SHALL TURN THE RESPECTIVE ZONE "ON" DURING OFF HOURS FOR 2 HOURS MAXIMUM.

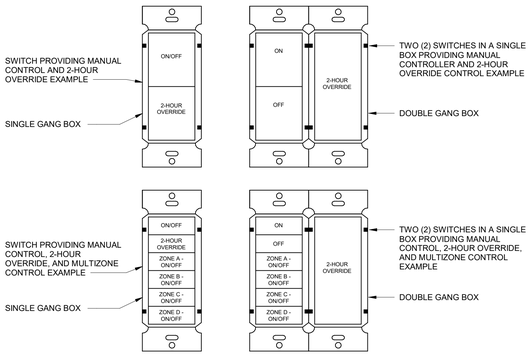
G. ALL OVERRIDE SWITCHES SHALL BE LABELED WITH THE "DESCRIPTION " AREA".

H. PROVIDE DRY CONTACTS FOR A RELAY TO CONNECT FIRE ALARM WIRING INTERFACE. ALL AUTOMATICALLY SWITCHED LIGHTING WITHIN THE MEANS OF EGRESS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM. UPON ACTIVATION, THE LIGHTS SHALL BE SWITCHED TO "ON" AND FULL BRIGHT.

I. PROVIDE PHOTOCELL/PHOTOSENSOR CONNECTED TO THE LCP.

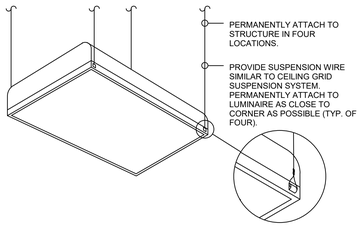
J. CONFIRM ON/OFF SCHEDULING WITH THE OWNER. LIGHTING CONTROL PANEL SHALL BE PROGRAMMED FOR THE OWNER.

K. LIGHTING CONTROL PANEL VENDOR SHALL PROVIDE SHOP DRAWINGS OF ALL LOCATIONS OF DEVICES AND EQUIPMENT ON THE FLOOR PLAN FOR SUBMITTAL REVIEW AND FOR INSTALLATION PURPOSE. LIGHTING CONTROL PANEL VENDOR SHALL PROVIDE DETAILED WIRING DIAGRAMS FOR ALL DEVICES AND EQUIPMENT WITHIN LCP SYSTEM.

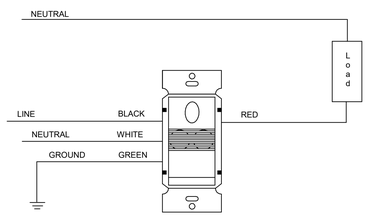


NOTE:
1. COORDINATE ALL SWITCH REQUIREMENTS WITH CONTROLS MANUFACTURER TO COMPLY WITH ALL CONTROL REQUIREMENTS OF EACH INDIVIDUAL SPACE. SEE LIGHTING CONTROL SCHEDULES AND SWITCH LEGEND. WHERE A MANUFACTURER REQUIRES A TWO GANG BOX OR A SINGLE GANG BOX, PROVIDE ALL RESULTING COSTS IN ADDITIONAL ROUGH-IN REQUIREMENTS.
2. ALL SWITCHES SHOWN GROUPED SHALL BE GANGED UNDER A SINGLE COVERPLATE.

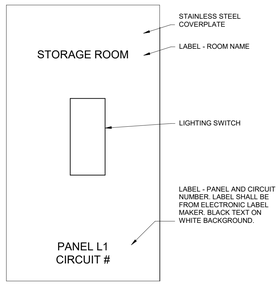
MULTIZONE SWITCH AND OVERRIDE SWITCH SCHEMATIC



DETAIL - TYPICAL MOUNTING TROFFER
NOT TO SCALE

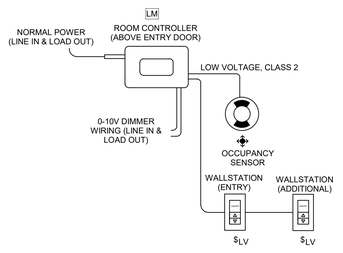


DETAIL - WALL SWITCH SENSOR
NOT TO SCALE



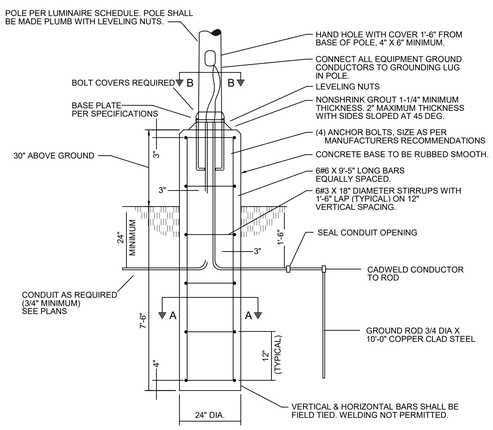
DETAIL

LIGHTING SWITCH FACEPLATE
NO SCALE



ROOM CONTROLLER TYPICAL WIRING DIAGRAM
NO TO SCALE

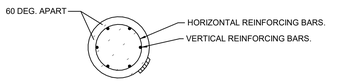
NOTES:
1. DETAIL IS DIAGRAMMATIC. COORDINATE WITH LIGHTING CONTROLS MANUFACTURER AND PROVIDE ALL REQUIRED COMPONENTS FOR A COMPLETE OPERATIONAL SYSTEM THAT MEETS THE INTENT OF THE CONTROL SCHEME. WHERE EMERENCY AND NORMAL ROOM CONTROLLERS ARE SHOWN IN THE SAME ROOM AND/OR CONTROLLING THE SAME ZONES, COORDIANTE WITH LIGHTING CONTROLS MANUFACTURER TO PROVIDE A LIGHTING CONTROLS SYSTEM WHICH MEETS THE INTENT OF THE CONTROL SCHEME. IT IS PERMITTED TO HAVE ONE (1) ROOM CONTROLLER AS A SYSTEM OR MULTIPLE ROOM CONTROLLERS WORKING AS A SYSTEM WHICH MEETS THE INTENT
2. ALL LOW VOLTAGE WIRES AND ABOVE CEILING CONTROLLERS SHALL BE PLENUM RATED.
3. ALL LOW VOLTAGE WIRES SHALL BE INSTALLED ON J-HOOKS. PROVIDE QUANTITY AS REQUIRED TO SUPPORT EVERY 5'-0".



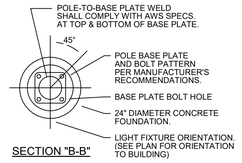
NOTES:

1. 3500 PSI MINIMUM 28 DAY COMPRESSIVE STRENGTH CONCRETE WITH GRADE 60 RE-BARS.
2. IF WATER IS PRESENT IN HOLE, REMOVE BEFORE POURING CONCRETE.
3. FOUNDATION EXCAVATION SHALL BE BY 24" AUGAR IN UNDISTURBED OR PROPERLY COMPACTED FILL.
4. MINIMUM ALLOWABLE SOIL BEARING PRESSURE 3000 PSF. NOTIFY ENGINEER IF BEARING PRESSURE IS LESS.
5. AIR ENTRAINMENT: 4 TO 6%.

DETAIL - POLE BASE LIGHTING STANDARD FOR POLE MOUNTED FIXTURES
NOT TO SCALE



SECTION "A-A"



SECTION "B-B"

DETAIL - SECTION THRU POLE BASE
NOT TO SCALE

SHEET TITLE:
ELECTRICAL LUMINAIRE SCHEDULE AND DETAILS

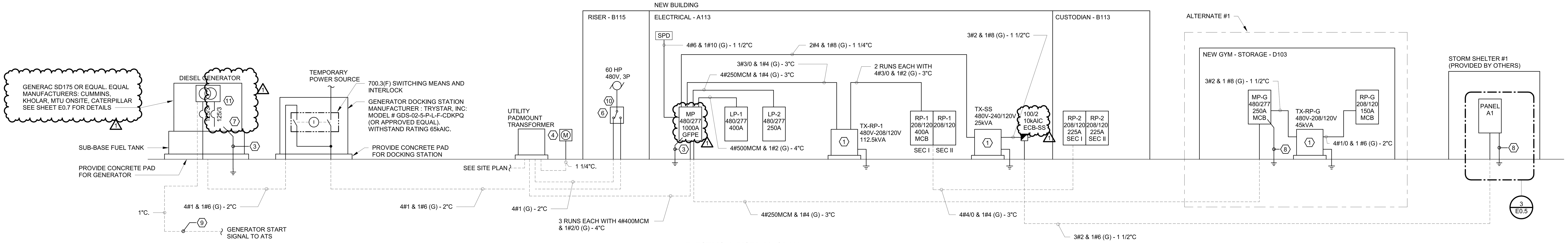
PROJ. MGR.:	–	AMM
DRAWN:		DB
DATE:	–	07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
E0.2



1 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

RISER DIAGRAM KEYNOTES:

1. SEE WIRING DIAGRAM DRY-TYPE TRANSFORMER GROUNDING DETAIL. PROVIDE 4" HOUSEKEEPING PAD WITH CHAMFERED EDGES (1"). MOUNT WITH VIBRATION ISOLATORS. SEE CONDUIT TERMINATION WITH FLEXIBLE CONNECTION TO TRANSFORMER DETAIL.
2. CONCEAL CONDUIT AS MUCH AS POSSIBLE. STUB OUT OF BUILDING AND SURFACE MOUNT ALONG EXISTING EXTERIOR WALL TO TRANSITION TO UNDERGROUND. MINIMIZE SURFACE MOUNTED CONDUIT AND RUN UNDERGROUND FROM EXISTING BUILDING TO NEW BUILDING TO COMPLETE THE CONNECTION.
3. SEE SERVICE GROUNDING DETAIL.
4. UTILITY METER PER UTILITY SPECIFICATIONS. COORDINATE SPECIFICATIONS AND REQUIREMENTS WITH UTILITY. SEE DETAIL.
5. MOUNT SURGE SUPPRESSOR ADJACENT TO PANEL. LEAD LENGTH NOT TO EXCEED 12 INCHES.
6. FIRE PUMP CONTROLLER AND FIRE PUMP (RESPECTIVELY). COORDINATE WITH EQUIPMENT PROVIDER.

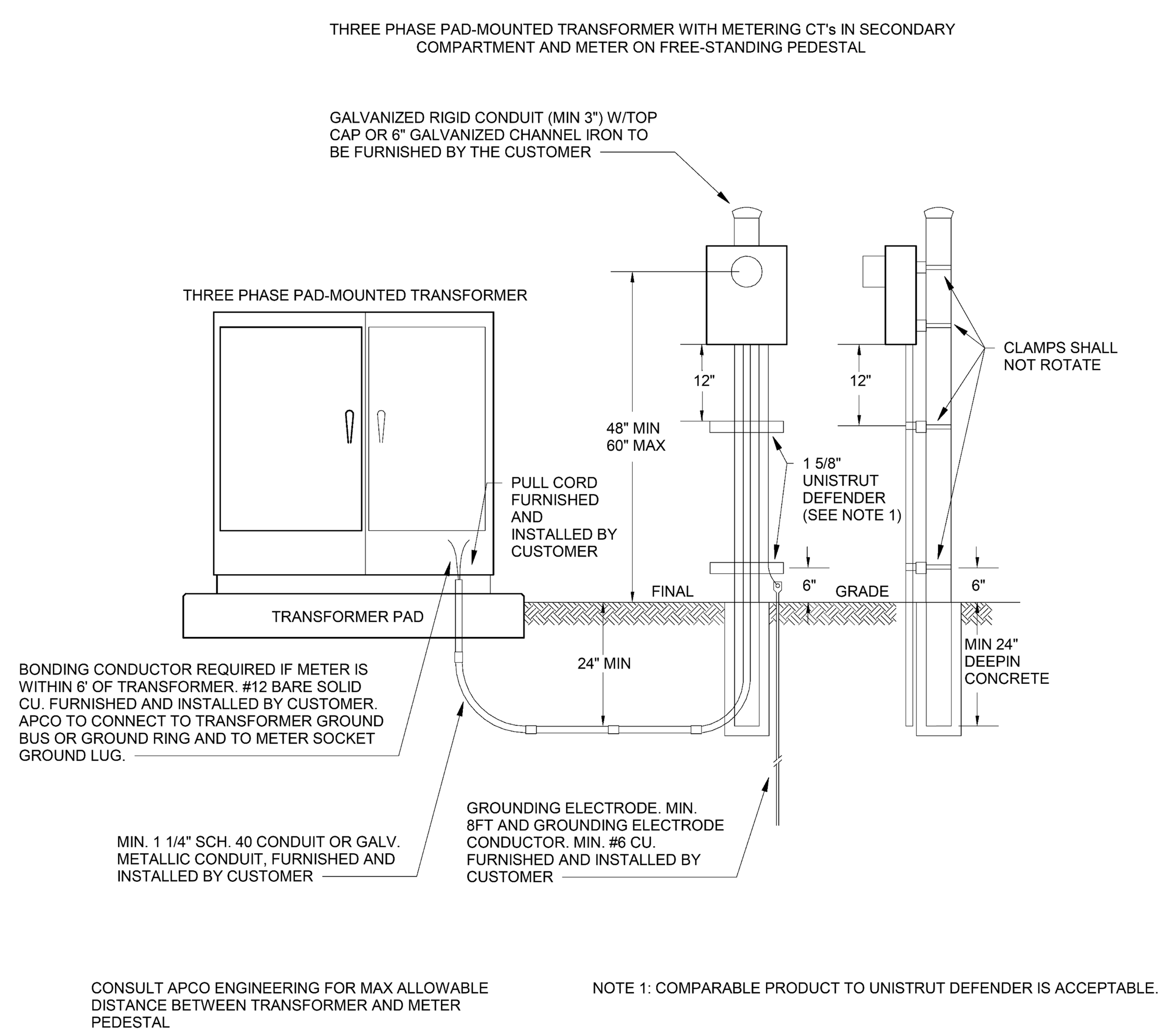
RISER DIAGRAM KEYNOTES (CONTINUED):

7. DIESEL GENERATOR WITH SUB-BASE TANK 175KW, 219KVA WITH 12 HOURS OF RUNTIME. UNIT SHALL INCLUDE A WEATHERPROOF SOUND ATTENUATED ENCLOSURE
8. SEE GROUNDING DETAIL - OUTSIDE FEEDER
9. CONTROL CONDUCTORS INSTALLED BETWEEN THE FIRE PUMP POWER TRANSFER SWITCH AND THE STANDBY GENERATOR SUPPLYING THE FIRE PUMP DURING NORMAL POWER LOSS SHALL BE KEPT ENTIRELY INDEPENDENT OF ALL OTHER WIRING. THE INTEGRITY OF THE GENERATOR REMOTE START CIRCUIT SHALL BE MONITORED FOR BROKEN, DISCONNECTED, OR SHORTED WIRES. LOSS OF INTEGRITY SHALL START THE GENERATOR(S). PROVIDE CABLING AS RECOMMENDED BY THE MANUFACTURER. PROVIDE 3 WIRE START CIRCUIT.
10. A LISTED SURGE PROTECTION DEVICE SHALL BE INSTALLED IN OR ON THE FIRE PUMP CONTROLLER. COORDINATE WITH FIRE PROTECTION CONTRACTOR AND CONNECT/INSTALL AS REQUIRED.

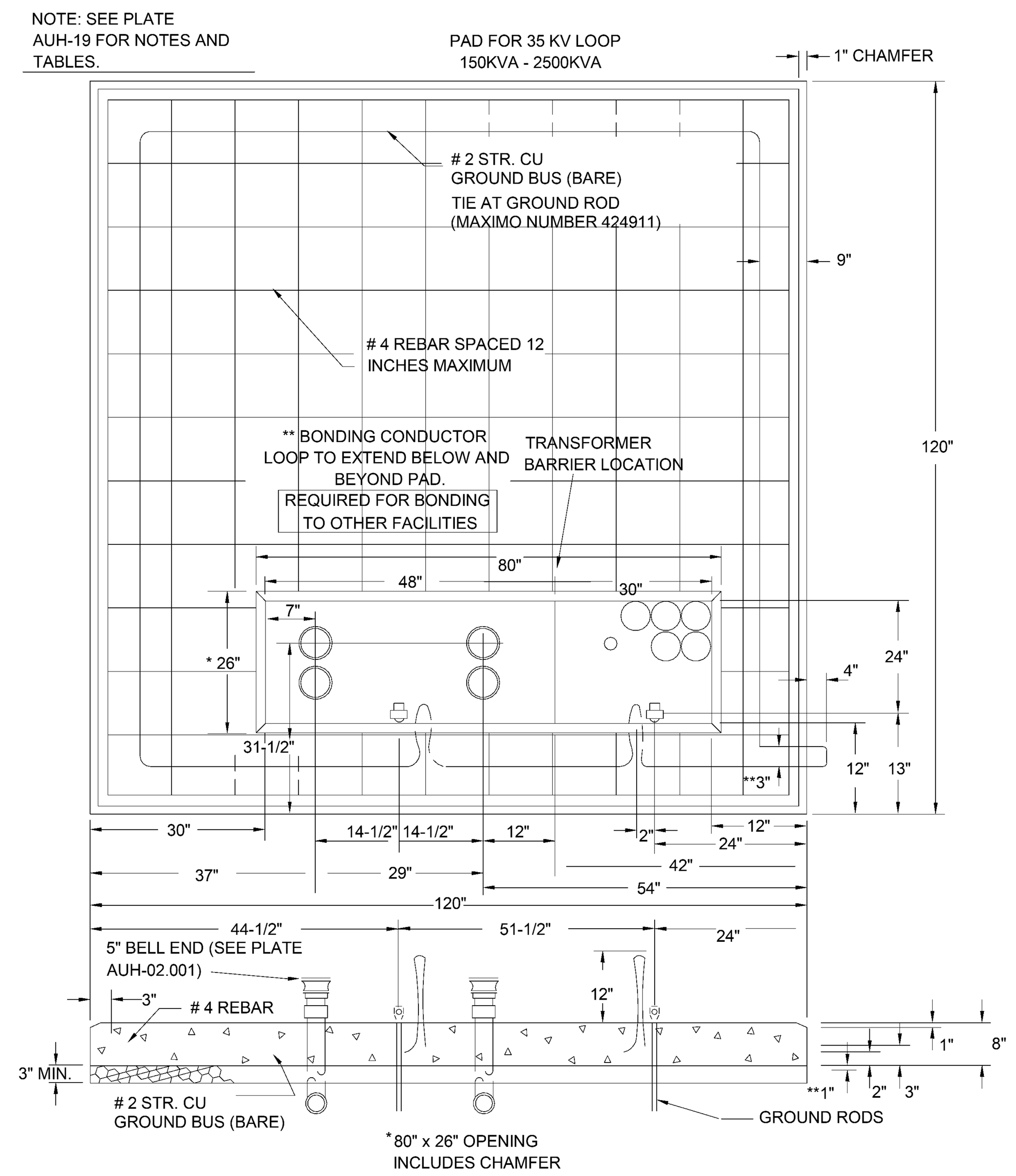
GENERAL NOTES:

A. SEE PANEL SCHEDULES FOR ALL BREAKERS

11. PROVIDE SPARE BREAKER FOR LOAD BANK TEST. GENERATOR SHALL AUTOMATICALLY DUMP LOAD BANK UPON FAILURE OF NORMAL POWER.



DETAIL - APCO METER PEDESTAL
NOT TO SCALE



DETAIL - APCO UTILITY PADMOUNT
NOT TO SCALE

Panel:	MP	Enclosure:	NEMA 1	Volts:	480/277 Wye	Bus Rating:	1000 A	A.I.C. Rating:	42,000
Location:	ELECTRICAL - A113	Mounting:	SURFACE	Phases:	3	Main Device Type:	MCB		
Fed From:	UTILITY			Wires:	4	Main Device Size:	1000 A	Fault Current:	36166

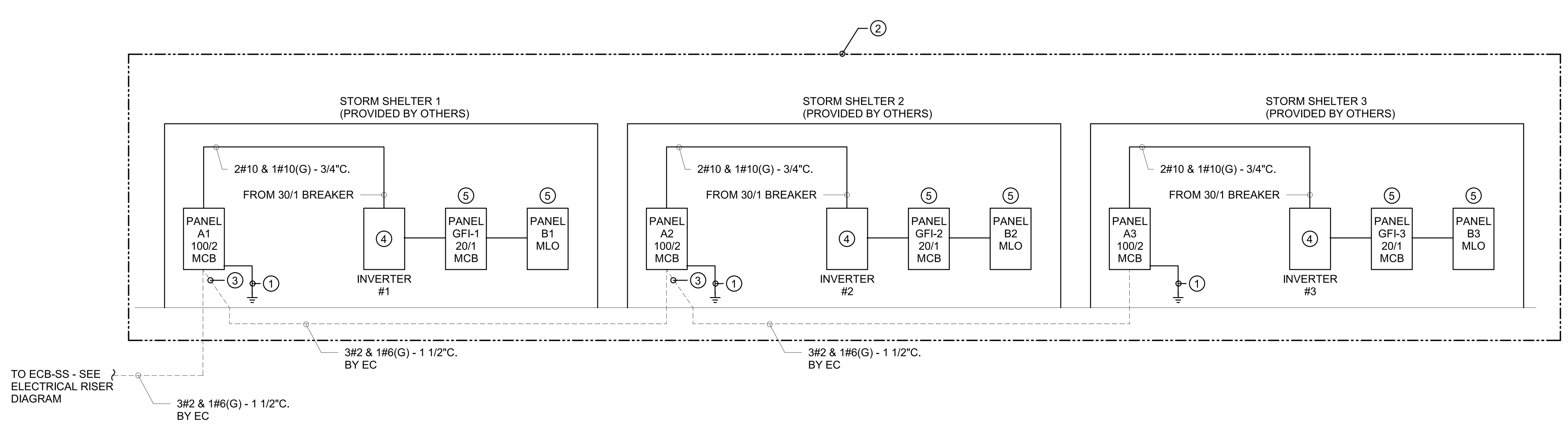
Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A		B		C		Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	LP-1		Motor; Power; Lighting	400	3	68141	44154					3	200	HVAC; Motor; Electric...		TX-RP-1	2
3	--		--	--	--			65659	40515			--	--	--		--	4
5	--		--	--	--					65459	38511	--	--	--		--	6
7	LP-2		Motor; Heating;...	250	3	38999	6426					3	50	HVAC		RTU-ADMIN	8
9	--		--	--	--			39595	6426			--	--	--		--	10
11	--		--	--	--					40692	6426	--	--	--		--	12
13	RTU-2		HVAC	60	3	10415	10415					3	60	HVAC		RTU-1	14
15	--		--	--	--			10415	10415			--	--	--		--	16
17	--		--	--	--					10415	10415	--	--	--		--	18
19	RTU-3		HVAC	50	3	6426	6360					3	50	HVAC		ERU-2	20
21	--		--	--	--			6426	6360			--	--	--		--	22
23	--		--	--	--					6426	6360	--	--	--		--	24
25	ERU-3		HVAC	50	3	6360	6360					3	50	HVAC		ERU-1	26
27	--		--	--	--			6360	6360			--	--	--		--	28
29	--		--	--	--					6360	6360	--	--	--		--	30
31	MP-G		HVAC; Motor; Heating;...	250	3	31449	3050					2	20	Power		TX-SS	32
33	--		--	--	--			29333	3050			--	--	--		--	34
35	--		--	--	--					28209	--	1	--	--		Space	36
37	Space		--	--	1	--	--					1	--	--		Space	38
39	Space		--	--	1			--	--			1	--	--		Space	40
41	Space		--	--	1					--	--	1	--	--		Space	42
	Total Phase Connected Load (VA):					238542		230912		225629							
	Total Phase Connected Current (A):					864		837		815							

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Electric Clothes Dryer	5000 VA	100.00%	5000 VA	Total Connected Load (VA):	695079 VA
Heating	13000 VA	100.00%	13000 VA	Total Demand Load (VA):	662759 VA
Lighting	23199 VA	125.00%	28999 VA	Total Connected Current (A):	836 A
Lighting - Exterior	1677 VA	125.00%	2097 VA	Highest Connected Phase Current (A):	864 A
Motor	298523 VA	101.17%	302030 VA	Total Demand Current (A):	797 A
Power	13212 VA	100.00%	13212 VA		
Receptacle	93980 VA	55.32%	51990 VA		
HVAC	246724 VA	100.00%	246724 VA		

SEE NOTE B

Notes:
A. UL LISTED FOR SERVICE ENTRANCE
B. DEMAND LOAD PER NEC 220.86 = 663 AMPS
C. PROVIDE GFPE MAIN BREAKER

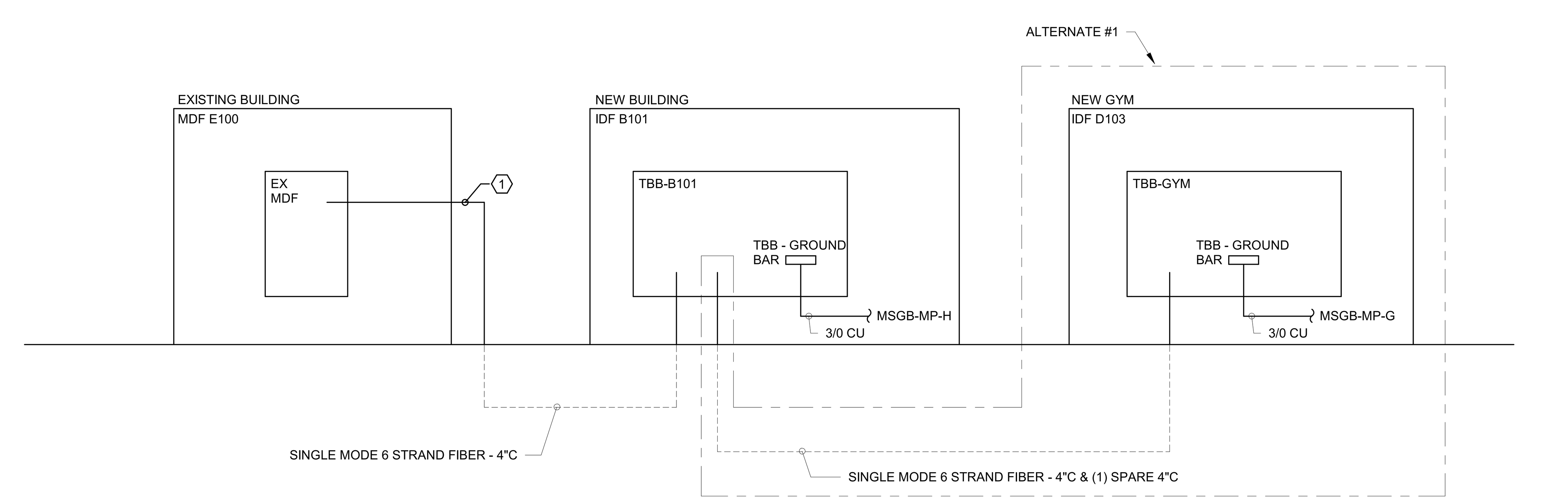
Circuit Notes:



3 STORM SHELTER RISER DIAGRAM
NOT TO SCALE

STORM SHELTER RISER DIAGRAM KEYNOTES:

1. GROUND PER NEC (SEE DETAIL). DO NOT BOND NEUTRAL AND GROUND AT THIS PANEL. (BY EC)
2. UNLESS OTHERWISE NOTED, ALL PANELS/EQUIPMENT/WORK IS PROVIDED BY OTHERS IN THE PRE-MANUFACTURED STORM SHELTER UNIT. COORDINATE WITH STORM SHELTER/EQUIPMENT PROVIDER FOR EXACT LOCATIONS. STORM SHELTER RISER SHOWN FOR REFERENCE.
3. CONNECT FROM LISTED DOUBLE LUGS. CONNECTION BY EC.
4. INVERTER WITH 2 HOUR RUN TIME MINIMUM.
5. FEEDS ALL REQUIRED STANDBY LIGHTING AND VENTILATION FANS. SEE STORM SHELTER DRAWINGS.



2 STRUCTURED CABLING RISER DIAGRAM
NOT TO SCALE

STRUCTURED CABLING RISER DIAGRAM KEYNOTE:

1. CONCEAL CONDUIT AS MUCH AS POSSIBLE. STUB OUT OF BUILDING AND SURFACE MOUNT ALONG EXISTING EXTERIOR WALL TO TRANSITION TO UNDERGROUND. MINIMIZE SURFACE MOUNTED CONDUIT AND RUN UNDERGROUND FROM EXISTING BUILDING TO NEW BUILDING TO COMPLETE THE CONNECTION.

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number : 50181596

LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 51403 07/16/2024 ALFRED MICHAEL MAIORANA III

SHEET TITLE: ELECTRICAL RISER DIAGRAM

PROJ. MGR.: -- AMM
DRAWN: DB
DATE: -- 07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38
SHEET NO: E0.5

Panel: MP-G | **Location:** ELECT.D | **Fed From:** MP | **Enclosure:** NEMA 1 | **Mounting:** SURFACE | **Volts:** 480/277 Wye | **Phases:** 3 | **Wires:** 4 | **Bus Rating:** 250A | **Main Device Type:** MCB | **Main Device Size:** 250A | **A.I.C. Rating:** 25,000 | **Fault Current:** 13296

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A	B	C	Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	TX-RP-HG		HVAC, Motor - Heating ...	100	3	6032	2888		1	20	Lighting		GYM LTG	2
3	--		--	--	--		5862	908	1	20	Lighting		GYM LTG - MISC	4
5	--		--	--	--			5606 22603	3	125	HVAC		AHU-GYM	6
7	LGT - EXTERIOR WALLS		Lighting - Exterior	20	1	60	22603		--	--	--		--	8
9	Spare		--	20	1		0	22603	--	--	--		--	10
11	Spare		--	20	1			0 --	1	--	--		Space	12
13	Spare		--	20	1	0	--		1	--	--		Space	14
15	Spare		--	20	1		0	--	1	--	--		Space	16
17	Spare		--	20	1			0 --	1	--	--		Space	18
19	Spare		--	20	1	0	--		1	--	--		Space	20
21	Spare		--	20	1		0	--	1	--	--		Space	22
23	Spare		--	20	1			0 --	1	--	--		Space	24
25	Spare		--	20	1	0	--		1	--	--		Space	26
27	Spare		--	20	1		0	--	1	--	--		Space	28
29	Spare		--	20	1			0 --	1	--	--		Space	30
31	Spare		--	20	1	0	--		1	--	--		Space	32
33	Spare		--	20	1		0	--	1	--	--		Space	34
35	Spare		--	20	1			0 --	1	--	--		Space	36
37	Spare		--	20	1	0	--		1	--	--		Space	38
39	Spare		--	20	1		0	--	1	--	--		Space	40
41	Spare		--	20	1			0 --	1	--	--		Space	42
	Total Phase Connected Load (VA):					31449	29333	28209						
	Total Phase Connected Current (A):					114	107	102						

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Heating	4500 VA	100.00%	4500 VA	**Total Connected Load (VA):**	88983 VA
Lighting	4951 VA	125.00%	6189 VA	**Total Demand Load (VA):**	90378 VA
Lighting - Exterior	60 VA	125.00%	75 VA	**Total Connected Current (A):**	107 A
Motor	696 VA	125.00%	870 VA	**Highest Connected Phase Current (A):**	114 A
Power	3712 VA	100.00%	3712 VA	**Total Demand Current (A):**	109 A
Receptacle	5560 VA	100.00%	5560 VA		
HVAC	69640 VA	100.00%	69640 VA		

Notes:

Circuit Notes:

Panel: RP-1 | **Location:** ELECTRICAL - A113 | **Fed From:** TX-RP-1 | **Enclosure:** NEMA 1 | **Mounting:** SURFACE | **Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Bus Rating:** 400 A | **Main Device Type:** MCB | **Main Device Size:** 400 A | **A.I.C. Rating:** 10,000 | **Fault Current:** 6751

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A	B	C	Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	OPH-4 HVAC		HVAC	30	2	915 24799			3	225	HVAC, Motor - Receptacle, ...		RP-2	2
3	--		--	--	--		915 22490		--	--	--		--	4
5	OPH-8 HVAC		HVAC	30	2			915 20831	--	--	--		--	6
7	--		--	--	--	915 915			2	30	HVAC		OPH-6 HVAC	8
9	OPH-7 HVAC		HVAC	30	2		915 915		--	--	--		--	10
11	--		--	--	--			915 540	1	20	Receptacle		REC - IDF B101	12
13	REC - IDF B101		Receptacle	20	1	720 180			1	20	Receptacle		REC - COND. PUMP #8	14
15	REC - IDF B101		Receptacle	20	1		1440 720		1	20	Receptacle		REC - IDF B101	16
17	REC - IDF B101		Receptacle	20	1			720 720	1	20	Receptacle		REC - IDF B101	18
19	REC - ELECTRICAL		Receptacle	20	1	180 540			1	20	Receptacle		REC - CORRIDOR B100	20
21	REC - COND. PUMP #5		Receptacle	20	1		180 720		1	20	Receptacle		REC - CLASSROOM A119	22
23	REC - CLASSROOM A119		Receptacle	20	1			900 900	1	20	Receptacle		REC - CLASSROOM A119	24
25	REC - CLASSROOM A117		Receptacle	20	1	900 900			1	20	Receptacle		REC - CLASSROOM A117	26
27	REC - CLASSROOM A117		Receptacle	20	1		720 720		1	20	Receptacle		REC - CLASSROOM A118	28
29	REC - CLASSROOM A118		Receptacle	20	1			900 900	1	20	Receptacle		REC - CLASSROOM A118	30
31	REC - CLASSROOM A116		Receptacle	20	1	900 900			1	20	Receptacle		REC - CLASSROOM A116	32
33	REC - CLASSROOM A116		Receptacle	20	1		720 720		1	20	Receptacle		REC - CLASSROOM A103	34
35	REC - CLASSROOM A103		Receptacle	20	1			900 900	1	20	Receptacle		REC - CLASSROOM A103	36
37	REC - CLASSROOM A104		Receptacle	20	1	720 900			1	20	Receptacle		REC - CLASSROOM A104	38
39	REC - CLASSROOM A104		Receptacle	20	1		900 900		1	20	Receptacle		REC - CLASSROOM A101	40
41	REC - CLASSROOM A101		Receptacle	20	1			900 720	1	20	Receptacle		REC - CLASSROOM A101	42
43	REC - CLASSROOM A102		Receptacle	20	1	900 900			1	20	Receptacle		REC - CLASSROOM A102	44
45	REC - CLASSROOM A102		Receptacle	20	1		720 720		1	20	Receptacle		REC - ASST. OFFICE A112	46
47	REC - MECH A111		Receptacle	20	1			360 720	1	20	Receptacle		REC - A107 LAUNDRY & A109 TLT	48
49	REC - LAUNDRY A107	1	Electric Clothes Dryer	30	2	2500 180			1	20	Receptacle	1	REC - LAUNDRY A107	50
51	--		--	--	--		2500 720		1	20	Receptacle		REC - WRKRM A106 & TLT A108	52
53	REC - WORKROOM A106	1	Receptacle	20	1			800 1260	1	20	Receptacle		REC - TLT A110, A112, & A114	54
55	REC - EWC CORRIDOR A100	1	Receptacle	20	1	800 800			1	20	Receptacle	1	REC - EWC CORRIDOR A100	56
57	REC - CLASSROOM C108		Receptacle	20	1		720 900		1	20	Receptacle		REC - CLASSROOM C108	58
59	REC - CLASSROOM C108		Receptacle	20	1			900 360	1	30	Receptacle		DATA RACK RECEPTACLE	60
61	REC - MECH POWER		Receptacle	20	1	900 360			1	20	Receptacle		REC - MECH POWER	62
63	REC - MECH POWER		Receptacle	20	1		180 360		1	20	Receptacle		REC - IDF B101	64
65	FACP	2	Power	20	1			200 2250	2	30	Heating		WH1	66
67	MICROWAVE - WORKROOM	1	Receptacle	20	1	180 2250								68
69	SPARE		--	20	1		0 720		1	20	Receptacle		Receptacle - EXTERIOR	70
71	SPARE		--	20	1			0 --	1	--	--		Space	72
73	SPARE		--	20	1	0 --			1	--	--		Space	74
75	SPARE		--	20	1		0 --		1	--	--		Space	76
77	SPARE		--	20	1			0 --	1	--	--		SPACE	78
79	SPARE		--	20	1	0 --			1	--	--		SPACE	80
81	SPARE		--	20	1		0 --		1	--	--		SPACE	82
83	SPARE		--	20	1			0 --	1	--	--		SPACE	84
	Total Phase Connected Load (VA):					44154	40515	38511						
	Total Phase Connected Current (A):					371	340	321						

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Electric Clothes Dryer	5000 VA	100.00%	5000 VA	**Total Connected Load (VA):**	123179 VA
Heating	4500 VA	100.00%	4500 VA	**Total Demand Load (VA):**	84689 VA
Motor	3260 VA	122.09%	3980 VA	**Total Connected Current (A):**	342 A
Power	3200 VA	100.00%	3200 VA	**Highest Connected Phase Current (A):**	371 A
Receptacle	88420 VA	55.65%	49210 VA	**Total Demand Current (A):**	235 A
HVAC	18799 VA	100.00%	18799 VA		

Notes:
A. PROVIDE TWO EQUAL SECTIONS

Circuit Notes:
1. PROVIDE GFI BREAKER
2. RED LOCK-ON BREAKER

Panel: RP-2 | **Location:** CUSTODIAN - B104 | **Fed From:** RP-1 | **Enclosure:** NEMA 1 | **Mounting:** RECESSED | **Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Bus Rating:** 225 A | **Main Device Type:** MLO | **Main Device Size:** 225 A | **A.I.C. Rating:** 10,000 | **Fault Current:** 6684

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A	B	C	Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	OHP-2 HVAC		HVAC	30	2	915 1414			2	30	HVAC		OHP-3 HVAC	2
3	--		--	--	--		915 1414		--	--	--		--	4
5	OHP-1 HVAC		HVAC	30	2			915 915	2	30	HVAC		OHP-5 HVAC	6
7	--		--	--	--	915 915			--	--	--		--	8
9	REC - GIRLS B102		Receptacle	20	1		720 1581		2	50	HVAC		OHP-9 HVAC	10
11	REC - CORRIDOR B100		Receptacle	20	1			720 1581	--	--	--		--	12
13	REC - RECEPTION B123		Receptacle	20	1	1260 720			1	20	Receptacle		REC - COUNSELOR B113	14
15	REC - OFFICE B113		Receptacle	20	1		720 720		1	20	Receptacle		REC - PRINCIPAL B111	16
17	REC - COPIER B123		Receptacle	20	1			800 720	1	20	Receptacle		REC - TOILET & FILE B109	18
19	REC - CONFERENCE B120		Receptacle	20	1	1260 180			1	20	Receptacle		REC - RISER B115	20
21	REC - NURSE B116 & ISO B114		Receptacle	20	1		1080 1200		1	20	Receptacle	1	REC - NURSE B116	22
23	REC - CORRIDOR B100		Receptacle	20	1			720 720	1	20	Receptacle		REC - CLASSROOM B112	24
25	REC - CLASSROOM B112		Receptacle	20	1	900 900			1	20	Receptacle		REC - CLASSROOM B112	26
27	REC - CLASSROOM B110		Receptacle	20	1		720 900		1	20	Receptacle		REC - CLASSROOM B110	28
29	REC - CLASSROOM B110		Receptacle	20	1			900 900	1	20	Receptacle		REC - CLASSROOM B108	30
31	REC - CLASSROOM B108		Receptacle	20	1	900 720			1	20	Receptacle		REC - CLASSROOM B108	32
33	REC - CLASSROOM B107		Receptacle	20	1		720 900		1	20	Receptacle		REC - CLASSROOM B107	34
35	REC - CLASSROOM B107		Receptacle	20	1			900 900	1	20	Receptacle		REC - CLASSROOM B105	36
37	REC - CLASSROOM B105		Receptacle	20	1	900 720			1	20	Receptacle		REC - CLASSROOM B105	38
39	REC - CLASSROOM B103		Receptacle	20	1		900 900		1	20	Receptacle		REC - CLASSROOM B103	40
41	REC - CLASSROOM B103		Receptacle	20	1			720 720	1	20	Receptacle		REC - CLASSROOM C107	42
43	REC - CLASSROOM C107		Receptacle	20	1	900 900			1	20	Receptacle		REC - CLASSROOM C107	44
45	REC - CLASSROOM C105		Receptacle	20	1		720 900		1	20	Receptacle		REC - CLASSROOM C105	46
47	REC - CLASSROOM C105		Receptacle	20	1			900 720	1	20	Receptacle		REC - CLASSROOM C106	48
49	REC - CLASSROOM C106		Receptacle	20	1	900 900			1	20	Receptacle		REC - CLASSROOM C106	50
51	REC - CLASSROOM C104		Receptacle	20	1		720 900		1	20	Receptacle		REC - CLASSROOM C104	52
53	REC - CLASSROOM C104		Receptacle	20	1			900 720	1	20	Receptacle		REC - CLASSROOM C103	54
55	REC - CLASSROOM C103		Receptacle	20	1	900 900			1	20	Receptacle		REC - CLASSROOM C103	56
57	REC - CLASSROOM C101		Receptacle	20	1		720 900		1	20	Receptacle		REC - CLASSROOM C101	58
59	REC - CLASSROOM C101		Receptacle	20	1			900 720	1	20	Receptacle		REC - CLASSROOM C102	60
61	REC - CLASSROOM C102		Receptacle	20	1	900 900			1	20	Receptacle		REC - CLASSROOM C102	62
63	REC - BOYS B106		Receptacle	20	1		540 1200		1	20	Receptacle		REC - NURSE B116	64
65	BATTERY CHARGER		Power	20	1			1000 1000	1	20	Power		BLOCK HEATER	66
67	GEN ALT STP HEAT & REC		Receptacle, Power	20	1	1180 200			1	15	Motor		EF-2	68
69	REC - EWC	1	Receptacle	20	1		800 800		1	20	Receptacle	1	REC - EWC	70
71	REC - EWC	1	Receptacle	20	1			800 180	1	15	Motor		DAMPER RISER B115	72
73	JOCKEY PUMP		Motor	40	1	2880 720			1	20	Receptacle		REC - EXTERIOR	74
75	REC - EXTERIOR		Receptacle	20	1		720 180		1	20	Receptacle		REC - DOCKING STATION	76
77	REC - DOCKING STATION		Receptacle	20	1			360 500	1	20	Receptacle		REC - DOCKING STATION	78
79	Space		--	1	--	--			1	--			Spare	80
81	Space		--	1			-- --		1	--	--	1	Spare	82
83	Space		--	1				-- --	1	--	--	1	Spare	84
	Total Phase Connected Load (VA):					24799	22490	20831						
	Total Phase Connected Current (A):					209	190	174						

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Motor	3260 VA	122.09%	3980 VA	**Total Connected Load (VA):**	68119 VA
Power	3000 VA	100.00%	3000 VA	**Total Demand Load (VA):**	48649 VA
Receptacle	50380 VA	59.92%	30190 VA	**Total Connected Current (A):**	189 A
HVAC	11479 VA	100.00%	11479 VA	**Highest Connected Phase Current (A):**	209 A
				Total Demand Current (A):	135 A

Notes:
A. PROVIDE TWO EQUAL SECTIONS
B. EACH PANEL SHALL HAVE 3-1" EMPTY CONDUITS STUBBED OUT ABOVE CEILING FOR FUTURE CIRCUITS.

Circuit Notes:
1. PROVIDE GFI BREAKER

Panel: LCP-G | **Location:** STORAGE - D103 | **Fed From:** TX-RP-G | **Enclosure:** NEMA 1 | **Mounting:** SURFACE | **Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **Bus Rating:** 225 A | **Main Device Type:** MCB | **Main Device Size:** 150 A | **A.I.C. Rating:** 10,000 | **Fault Current:** 2461

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A	B	C	Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	LCP-G		Power	20	1	200	540		1	20	Receptacle		REC - OFFICE D101	2
3	REC - GYM D100		Receptacle	20	1		360	180	1	20	Receptacle		REC - RISER D102	4
5	REC - BTHRM D105, D106, & D104		Receptacle	20	1			540	800	1	20	Receptacle	1	REC - EWC GYM D100	6
7	REC - EWC GYM D100	1	Receptacle	20	1	800	1656			1	20	Power		GOAL RAISE/LOWER	8
9	GOAL RAISE/LOWER		Power	20	1			1656 696		1	20	Motor		EF-1	10
11	REC - EXTERIOR		Receptacle	20	1				180 916	2	30	HVAC		OHP-10 HVAC	12
13	Space		--	1	--	916				--	--	--		--	14
15	Space		--	1				-- 360		1	20	Receptacle		REC - TBB-G	16
17	Space		--	1					-- 720	1	20	Receptacle		REC - TBB-G	18
19	Space		--	1	--	540				1	20	Receptacle		REC - ELEC, STOR, CON-PUMP	20
21	Space		--	1			--	0		1	20	Power		AUX PWR - BBALL CTL PNL	22
23	Space		--	1					-- 0	1	20	Power		BBALL CTL PNL	24
25	Space		--	1	--	0				1	20	Power		BBALL CTL PNL	26
27	Space		--	1			--	360		1	20	Receptacle		REC - GYM D100	28
29	Space		--	1				--	200	1	20	Power		NAC	30
31	Space		--	1	--	1200				1	20	Lighting		SIGNAGE	32
33	Space		--	1			--	2250		2	30	Heating		WH-2	34
35	Space		--	1					-- 2250	--	--	--		--	36
37	Space		--	1	--	180				1	20	Receptacle	2	REC - CIRC PUMP	38
39	Space		--	1			--	0		1	20	--		SPARE	40
41	Space		--	1				--	0	1	20	--		SPARE	42
	Total Phase Connected Load (VA):					6032	5862	5606						
	Total Phase Connected Current (A):					51	49	47						

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Heating	4500 VA	100.00%	4500 VA	**Total Connected Load (VA):**	17499 VA
Lighting	1200 VA	125.00%	1500 VA	**Total Demand Load (VA):**	17973 VA
Motor	696 VA	125.00%	870 VA	**Total Connected Current (A):**	49 A
Power	3712 VA	100.00%	3712 VA	**Highest Connected Phase Current (A):**	51 A
Receptacle	5560 VA	100.00%	5560 VA	**Total Demand Current (A):**	50 A
HVAC	1831 VA	100.00%	1831 VA		

Notes:

Circuit Notes:
1. PROVIDE GFI BREAKER
2. RED LOCK-ON BREAKER

Panel: LP-1 | **Location:** ELECTRICAL - A113 | **Fed From:** MP | **Enclosure:** NEMA 1 | **Mounting:** SURFACE | **Volts:** 480/277 Wye | **Phases:** 3 | **Wires:** 4 | **Bus Rating:** 400A | **Main Device Type:** MLO | **Main Device Size:** N/A | **A.I.C. Rating:** 42,000 | **Fault Current:** 34308

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A	B	C	Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	HP-1		Motor	25	3	4676 4676			3	25	Motor		HP-2	2
3	--		--	--	--		4676 4676		--	--	--		--	4
5	--		--	--	--			4676 4676	--	--	--		--	6
7	HP-3		Motor	25	3	4676 4676			3	25	Motor		HP-4	8
9	--		--	--	--		4676 4676		--	--	--		--	10
11	--		--	--	--			4676 4676	--	--	--		--	12
13	HP-5		Motor	25	3	4676 4676			3	25	Motor		HP-6	14
15	--		--	--	--		4676 4676		--	--	--		--	16
17	--		--	--	--			4676 4676	--	--	--		--	18
19	HP-7		Motor	25	3	4676 4676			3	25	Motor		HP-8	20
21	--		--	--	--		4676 4676		--	--	--		--	22
23	--		--	--	--			4676 4676	--	--	--		--	24
25	HP-9		Motor	25	3	4676 4676			3	25	Motor		HP-10	26
27	--		--	--	--		4676 4676		--	--	--		--	28
29	--		--	--	--			4676 4676	--	--	--		--	30
31	HP-11		Motor	25	3	4676 4676			3	25	Motor		HP-12	32
33	--		--	--	--		4676 4676		--	--	--		--	34
35	--		--	--	--			4676 4676	--	--	--		--	36
37	HP-13		Motor	25	3	4676 4676			3	25	Motor		HP-14	38
39	--		--	--	--		4676 4676		--	--	--		--	40
41	--		--	--	--			4676 4676	--	--	--		--	42
43	LIGHTING - CORRIDOR B100		Lighting	20	1	1900 916			1	20	Lighting		Lighting	44
45	LCP-1		Power	20	1		200 --		1	--	--		Space	46
47	Space		--	--	1			-- --	1	--	--		Space	48
49	Space		--	--	1	-- --			1	--	--		Space	50
51	Space		--	--	1		-- --		1	--	--		Space	52
53	Space		--	--	1			-- --	1	--	--		Space	54
	Total Phase Connected Load (VA):					68141	65659	65459						
	Total Phase Connected Current (A):					246	237	236						

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Lighting	2815 VA	125.00%	3519 VA	**Total Connected Load (VA):**	199256 VA
Motor	196378 VA	101.79%	199885 VA	**Total Demand Load (VA):**	203433 VA
Power	200 VA	100.00%	200 VA	**Total Connected Current (A):**	240 A
				Highest Connected Phase Current (A):	246 A
				Total Demand Current (A):	245 A

Notes:

Circuit Notes:

Panel: LP-2 | **Location:** ELECTRICAL - A113 | **Fed From:** MP | **Enclosure:** NEMA 1 | **Mounting:** SURFACE | **Volts:** 480/277 Wye | **Phases:** 3 | **Wires:** 4 | **Bus Rating:** 250A | **Main Device Type:** MLO | **Main Device Size:** N/A | **A.I.C. Rating:** 42,000 | **Fault Current:** 32631

Ckt	Description	Ckt Notes	Load Class	Trip (A)	Poles	A	B	C	Poles	Trip (A)	Load Class	Ckt Notes	Description	Ckt
1	HP-15		Motor	25	3	4676 4676			3	25	Motor		HP-16	2
3	--		--	--	--		4676 4676		--	--	--		--	4
5	--		--	--	--			4676 4676	--	--	--		--	6
7	HP-17		Motor	25	3	4676 4676			3	25	Motor		HP-18	8
9	--		--	--	--		4676 4676		--	--	--		--	10
11	--		--	--	--			4676 4676	--	--	--		--	12
13	HP-19		Motor	25	3	4676 4676			3	25	Motor		HP-20	14
15	--		--	--	--		4676 4676		--	--	--		--	16
17	--		--	--	--			4676 4676	--	--	--		--	18
19	HP-21		Motor	25	3	4676 1266			1	20	Lighting		LIGHTING - ADMIN	20
21	--		--	--	--		4676 562		1	20	Lighting		LTG - CONFERENCE & NURSE	22
23	--		--	--	--			4676 1050	1	20	Lighting		LTG - CORRIDOR B100 & A100	24
25	LIGHTING NW WING		Lighting	20	1	630 105			1	20	Lighting - Exterior		LIGHTING - EXTERIOR	26
27	LIGHTING - EXTERIOR		Lighting - Exterior	20	1		133 1200		1	20	Lighting - Exterior		LIGHTING - PARKING LOT	28
29	LTG - NW EXTERIOR CANOPY		Lighting	20	1			420 570	1	20	Lighting		LTG - IDF, ELECTRICAL, MECH.	30
31	LTG - CLASSROOM A101-A104		Lighting	20	1	2000 2000			1	20	Lighting		LTG - CLASSROOM A116-A119	32
33	LTG - CLASSROOM B103-B112		Lighting	20	1		3000 2000		1	20	Lighting		LTG - CLASSROOM C105-C108	34
35	LTG - CLASSROOM C101-C104		Lighting	20	1			2000 4000	1	20	Heating		EWH-1	36
37	Lighting - Exterior		Lighting - Exterior	20	1	193 178			1	20	Lighting - Exterior		Lighting - Exterior	38
39	SPARE		--	20	1		0 --		1	--	--		Space	40
41	SPACE		--	--	1			-- --	1	--	--		Space	42
	Total Phase Connected Load (VA):					38999	39595	40692						
	Total Phase Connected Current (A):					141	143	147						

Load Classification	Connected Load (VA)	Demand Factor	Demand Load (VA)	Panel Totals:	
Heating	4000 VA	100.00%	4000 VA	**Total Connected Load (VA):**	119285 VA
Lighting	15527 VA	125.00%	19408 VA	**Total Demand Load (VA):**	127068 VA
Lighting - Exterior	1619 VA	125.00%	2024 VA	**Total Connected Current (A):**	143 A
Motor	98189 VA	103.57%	101696 VA	**Highest Connected Phase Current (A):**	147 A
				Total Demand Current (A):	153 A

Notes:

Circuit Notes:

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com

Project Number : 50181596

LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

ALABAMA LICENSED Professional Engineer
No. 51603
PROFESSIONAL
07/16/2024
ENGINEER
ANTONIO MICHAEL MARSHALL

SHEET TITLE:
ELECTRICAL PANELBOARD SCHEDULES

PROJ. MGR.:	--	AMM
DRAWN:		DB
DATE:	--	07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
E0.6

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number :
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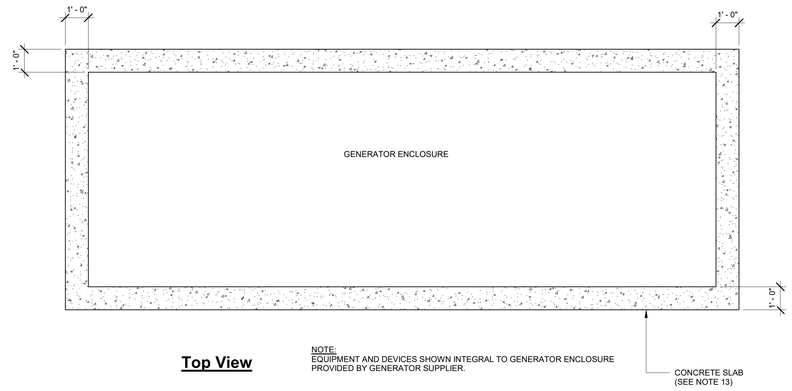
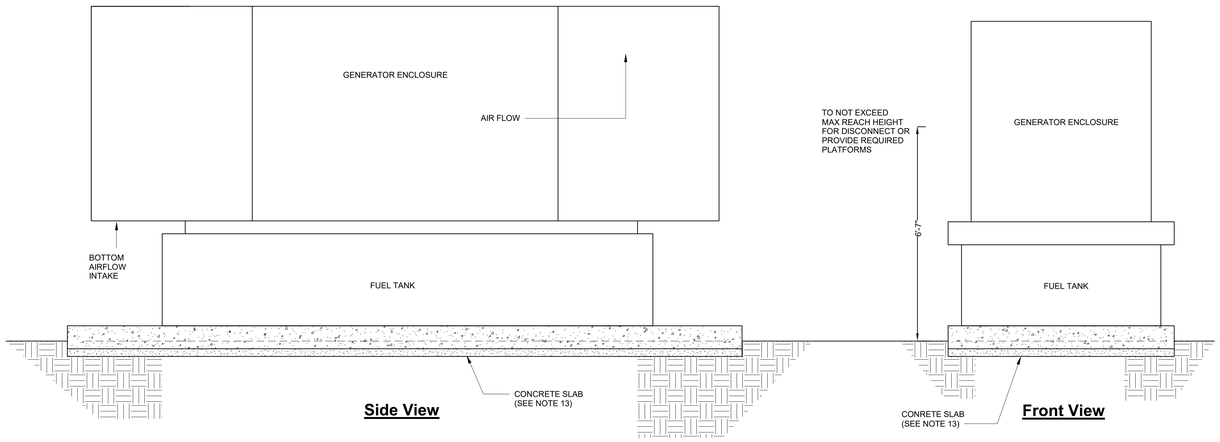
LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

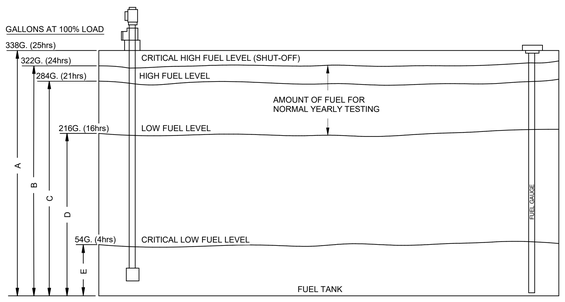


Top View

NOTE:
EQUIPMENT AND DEVICES SHOWN INTEGRAL TO GENERATOR ENCLOSURE PROVIDED BY GENERATOR SUPPLIER.



Side View **Front View**



NFPA 110

A = FULL TANK CAPACITY

B = CRITICAL HIGH LEVEL SHUT OFF AT 95% OF TANK CAPACITY.

C = HIGH LEVEL ALARM AT 90% OF TANK CAPACITY 16 = HOURS OF RUN TIME AT 100% LOAD + 33% (TOTAL OF 21 HOURS OF RUNTIME).

D = LOW FUEL LEVEL (16 = HOURS OF RUN TIME AT 100% LOAD).

E = CRITICAL LOW FUEL LEVEL (4 HOURS REMAINING AT 100% LOAD)

175KW GENERATOR : DIESEL FUEL USAGE:
13.5 GALLONS PER HOUR USAGE AT 100% LOAD.

GENERATOR REQUIRED USEABLE CAPACITY.
13.5G/HR X 21HR RUNTIME = 284 GALLONS

GENERATOR LOW FUEL ALARM LEVEL:
13.5G/HR X 16HR RUNTIME = 216 GALLONS
LOW FUEL ALARM LEVEL SET AT 216 GALLONS

175KW., 219KVA., 277/480V., 3PH, 4W. (0.8 P.F.) DIESEL EMERGENCY GENERATOR WITH WEATHERPROOF/SOUND ATTENUATED ENCLOSURE. 16 HOUR RUNTIME.
PROVIDE 322 GALLONS OF USEABLE SUB-BASE FUEL TANK. FUEL TANK SIZE TO BE SIZED BASE OFF OF SUBMITTED GENERATOR FUEL USAGE. PROVIDE UP-WARD EXHAUST ON GENERATOR. PROVIDE VEEDER-ROOT SYSTEM. UL 2200 LISTED.

NOTES:

1. REFER TO SPECIFICATION FOR ADDITIONAL REQUIRMENTS.
2. ALL PIPING SHALL BE PERFORMED BY A LICENSED PLUMBER. FOLLOW ALL FEDERAL, STATE AND LOCAL CODES.
3. THESE DETAILS ARE TO SHOW THE MINIMAL INSTALLATION REQUIREMENTS. REFER TO MANUFACTURER SHOP DRAWINGS AND INSTALLATION REQUIREMENTS.
4. PROVIDE LOCKS FOR ALL ADJUSTABLE VALVES. LOCKS SHALL BE OF A SINGLE KEYED CONFIGURATION.
5. ALL FUEL PIPING SHALL BE A MINIMUM OF 1/2 INCH. NPT. SIZE TO HANDLE FLOW RATE OF THE GENERATOR.
6. PROVIDE COMPLETE PIPING PLAN ALONG WITH THE GENERATOR SUBMITTALS FOR REVIEW.
7. ALL FUEL SYSTEM EQUIPMENT, DEVICES AND PIPING SHALL BE FDEP APPROVED. PROVIDE FDEP NUMBERS OF EQUIPMENT WITH SHOP DRAWINGS.
8. ALL EXPOSED GENERATOR FUEL PIPING SHALL BE PROVIDED WITH IMPACT PROTECTION. PROVIDE SHOP DRAWINGS WITH SUBMITTALS INDICATING HOW PROTECTION SHALL BE PROVIDED. PROTECTION PROVIDED SHALL BE NEAT AND SHALL NOT CAUSE OBSTRUCTION.

NOTES CONTINUED:

9. PROVIDE LEAK DETECTION AND OVER-FILL ALARM. VEEDER ROOT LEAK DETECTION PROBE TO BE LOCATED AT LOWEST POINT OF INTERSTITIAL SPACE TO REPORT ALARM. ALARM TO ACTIVATE WHEN LOW FUEL AND CRITICAL LOW FUEL POINTS REACHED.
10. OVER-FILL ALARM AND SWITCH MOUNTED AT FILL. DEVICE TO ALARM WHEN FUEL LEVEL IS AT 90% OF THE TANK CAPACITY. VEEDER ROOT MODEL #790091-001 AND 790095-001 OR EQUAL.
11. FUEL TANK SHALL BE DOUBLE WALL ABOVE GRADE FUEL TANK. TANK MUST COMPLY WITH UL2085.
12. PROVIDE FUEL TANK HOLD DOWN APPROPRIATELY SIZED BY TANK MANUFACTURER, ATTACHED TANK TO SLAB PER MANUFACTURER'S SPECIFICATIONS.
13. CONCRETE SLAB:
    a. VERIFY FINAL DESIGN REQUIREMENTS WITH STRUCTURAL AND TANK MANUFACTURER.
    b. 12" THICK FOUNDATION WITH TOP AT 6" ABOVE GRADE. POUR ON TOP OF 4" MIN. COMPACTED CRUSHED STONE.
    c. EXTEND 12" MIN. AROUND ALL SIDES OF GENSET.

2 ELECTRICAL FUEL TANK LEVEL SENSING DETAIL
12" = 1'-0"

1 ELECTRICAL GENERATOR DETAILS
3/8" = 1'-0"

ALABAMA LICENSED
No. 51403
PROFESSIONAL
07/16/2024
ENGINEER
FRED MICHAEL MANGRUM

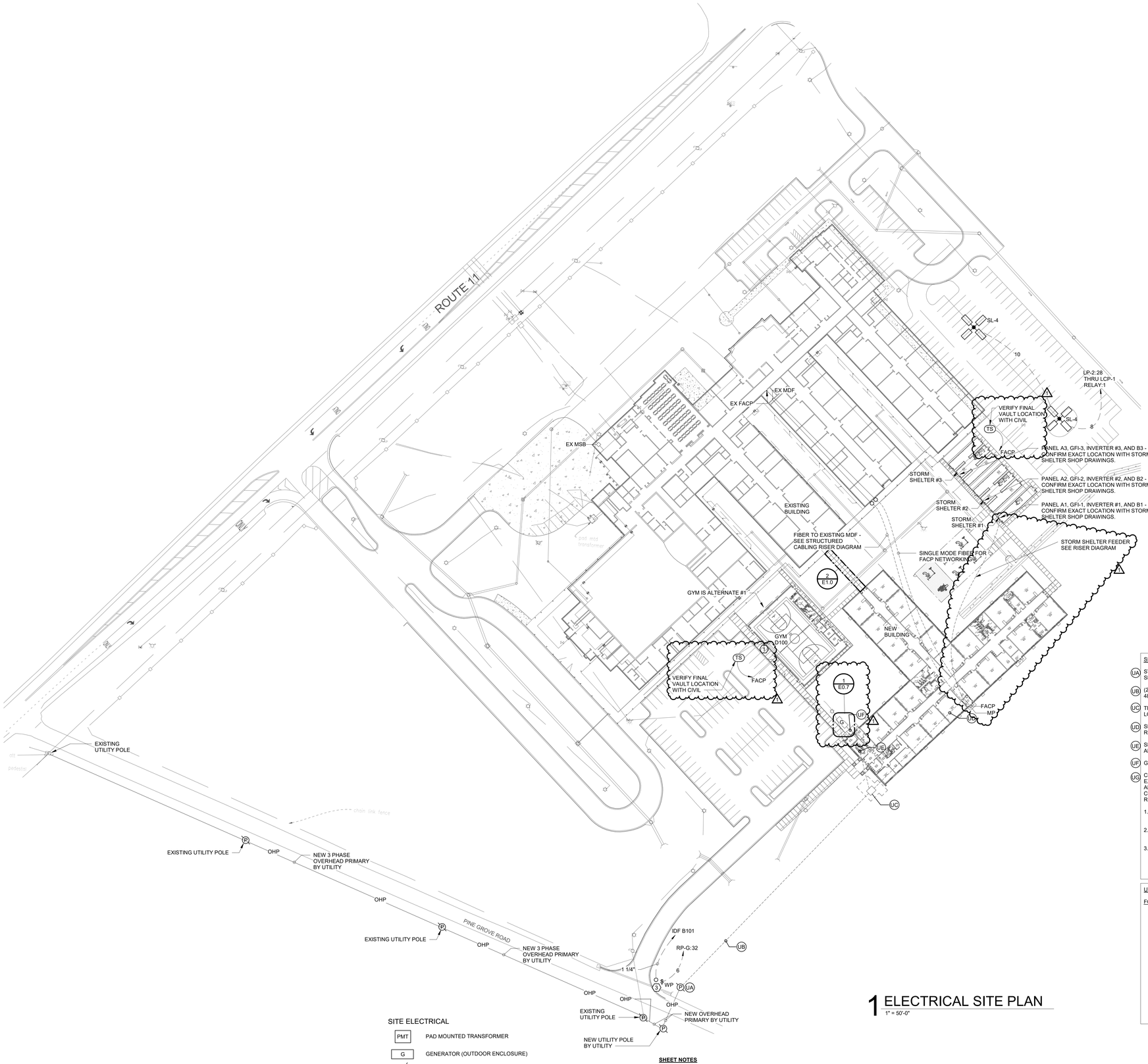
SHEET TITLE:
ELECTRICAL GENERATOR DETAILS

PROJ. MGR.: –	AMM
DRAWN:	DB
DATE: –	07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38
SHEET NO: E0.7



SITE ELECTRICAL

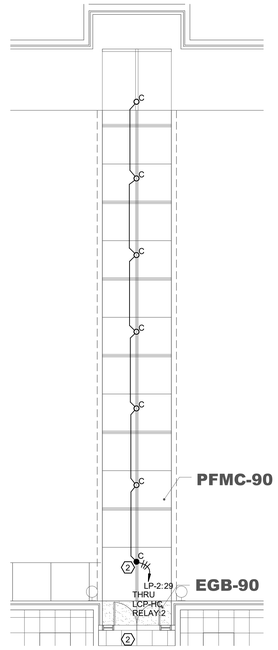
PMT	PAD MOUNTED TRANSFORMER
G	GENERATOR (OUTDOOR ENCLOSURE)
P	UTILITY POLE

1 ELECTRICAL SITE PLAN
1" = 50'-0"

0' 50' 100'
SCALE: 1" = 50'

SHEET NOTES

1. AS A PART OF ALTERNATE NUMBER 1, COORDINATE WITH CIVIL TO DEMOLISH EXISTING LIGHT POLE. INTERCEPT, EXTEND, AND REROUTE EXISTING SITE LIGHTING CIRCUIT TO MAKE THE CIRCUIT CONTINUOUS TO OTHER POLES.
2. PROVIDE WITH CONCEALED, REMOTE BATTERY PACK FOR EMERGENCY EGRESS. MOUNT ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE SURE-LITE EBPLED14W OR EQUAL.
3. FOR POWER AND DATA TO MONUMENT SIGN. CONFIRM LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE DATA CABLES AS RECOMMENDED BY SIGNAGE PROVIDER. PROVIDE UL LISTED WIRE ADAPTERS TO ACCOUNT FOR VOLTAGE DROP.



2 LIGHTING - SITE CANOPY ENLARGED
1/8" = 1'-0"

NORTH

SITE POWER AND TELEPHONE NOTES:

- (UA) STUB-OUT AND TERMINATE PER UTILITY COMPANY REQUIREMENTS. VERIFY LOCATION OF HIGH VOLTAGE SERVICE POINT PRIOR TO BIDDING AND INCLUDE ALL COST IN BID.
- (UB) (2)-5"C FOR HIGH VOLTAGE SERVICE - VERIFY LOCATION AND ROUTING. HIGH VOLTAGE CONDUIT SHALL BE 48" DEEP.
- (UC) TRANSFORMER SLAB-BOX. WITH TRAFFIC GUARDS PER UTILITY COMPANY REQUIREMENTS. VERIFY SIZE, LOCATION AND ORIENTATION WITH UTILITY COMPANY.
- (UD) SECONDARY FROM TRANSFORMER TO MAIN DISCONNECT. VERIFY ROUTING WITH UTILITY COMPANY AND ROUTE TO CLEAR STRUCTURAL FOOTING. SEE RISER DIAGRAM.
- (UE) SECONDARY FROM TRANSFORMER TO FIRE PUMP CONTROLLER. VERIFY ROUTING WITH UTILITY COMPANY AND ROUTE TO CLEAR STRUCTURAL FOOTING. SEE RISER DIAGRAM.
- (UF) GENERATOR FEED TO FIRE PUMP CONTROLLER. ROUTE TO CLEAR STRUCTURAL FOOTING.
- (UG) CONCEAL CONDUIT AS MUCH AS POSSIBLE. STUB OUT OF BUILDING AND SURFACE MOUNT ALONG EXISTING EXTERIOR WALL TO TRANSITION TO UNDERGROUND. MINIMIZE SURFACE MOUNTED CONDUIT AND RUN UNDERGROUND FROM EXISTING BUILDING TO NEW BUILDING TO COMPLETE THE CONNECTION. CONFIRM EXACT LOCATION FOR SURFACE MOUNTING AND FIELD VERIFY CONDUIT ROUTE PRIOR TO ROUGH-IN.

1. ALL UTILITY SERVICE SHALL BE VERIFIED WITH THE UTILITY COMPANIES PRIOR TO BIDDING AND ALL RESULTING COSTS SHALL BE INCLUDED IN BID.
2. ACTUAL INSTALLATION OF ALL UTILITY SERVICES SHALL BE ACCORDING TO FINAL UTILITY COMPANY PLANS. SEE "UTILITY NOTES".
3. UTILITY CONTACTS:

   ELECTRIC UTILITY - ALABAMA POWER COMPANY - CHARLES ELLEDGE; CELLEDGE@SOUTHERNCO.COM; 1-334-289-6541

UTILITY NOTES:

FOR POWER SERVICE:

A. CONTRACTOR WILL PROVIDE (2)-5"C FOR HIGH VOLTAGE CIRCUITS FROM PROPERTY LINE TO TRANSFORMER SLABS. CONDUIT TO BE 48" DEEP AND TERMINATED IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS INCLUDING TRENCHING AND BACKFILL TO 90% COMPACTION.

B. CONTRACTOR WILL PROVIDE TRANSFORMER SLABS INSTALLED COMPLETE IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.

C. CONTRACTOR WILL PROVIDE SECONDARY CONDUITS FOR LOW VOLTAGE CIRCUITS FROM TRANSFORMER SLABS TO BUILDING EQUIPMENT ROOMS. CONDUIT TO BE 48" DEEP AND TERMINATED IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

D. PROVIDE PULLWIRE IN ALL EMPTY CONDUITS.

E. USE JOINT TRENCHING WHEREVER POSSIBLE.

F. PROVIDE ADEQUATE GUARD RAILING AROUND POWER TRANSFORMERS IN PARKING AREAS.\

G. PROVIDE $15,000 AID TO CONSTRUCTION FOR ALABAMA POWER UTILITY WORK.

Know what's below. Call before you dig.

Dewberry
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Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number :
50181596

LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

ALABAMA LICENSED PROFESSIONAL No. 51403 07/16/2024 ENGINEER DAVID MICHAEL MARTIN

SHEET TITLE:
ELECTRICAL SITE PLAN

PROJ. MGR.: –		AMM
DRAWN:		DB
DATE: –		07/16/24
REVISIONS		
1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
E1.0

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2 Riverchase Office Plaza
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(205) 988-2069
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LATHAN
ARCHITECTS

ELEMENTARY ADDITION TO
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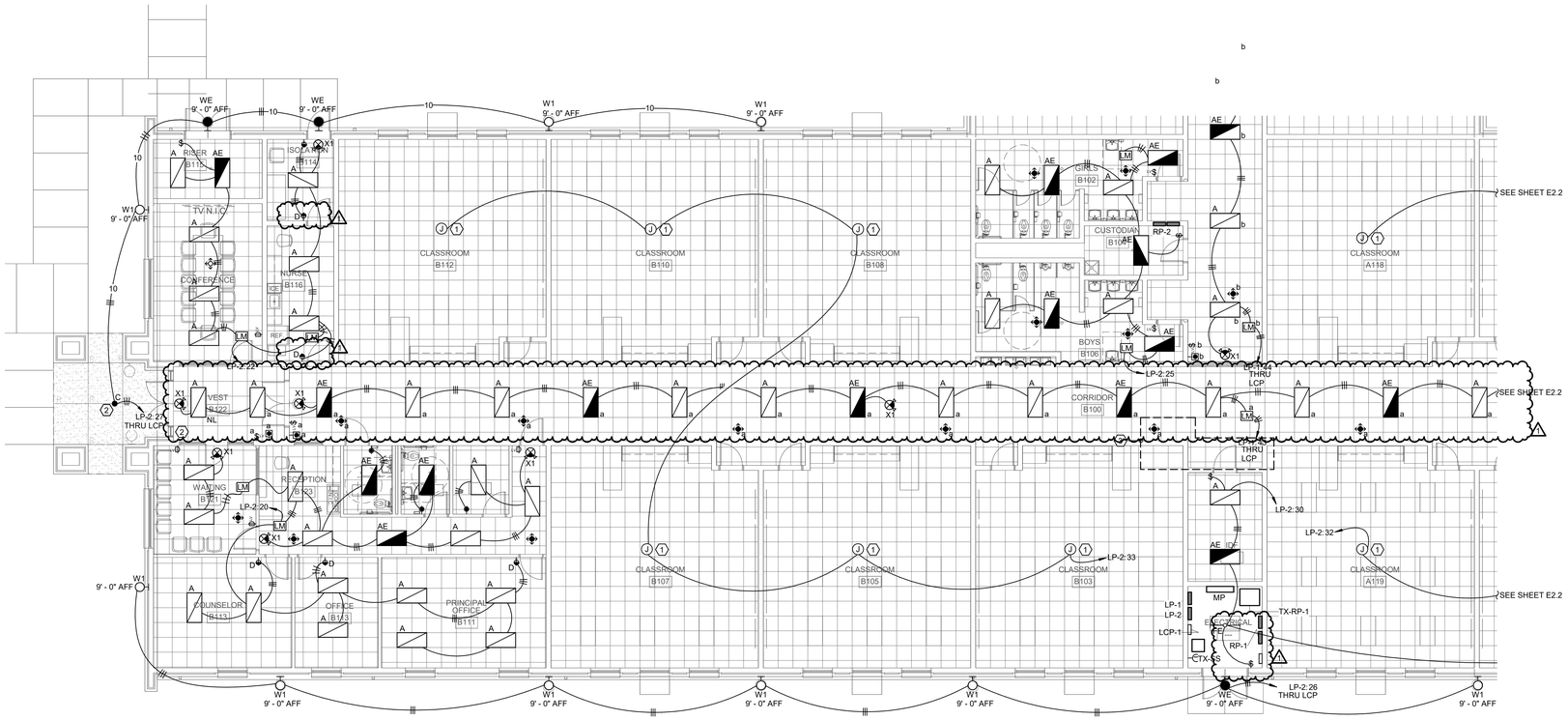
SUMTER COUNTY BOARD OF EDUCATION



1 LIGHTING - FLOOR PLAN - PART A
1/8" = 1'-0"

NORTH

LIGHTING - FLOOR PLAN - PART A

1. REFER TO E6.0 FOR TYPICAL CLASSROOM LIGHTING CIRCUITS AND CONTROLS.
2. PROVIDE WITH CONCEALED, REMOTE BATTERY PACK FOR EMERGENCY EGRESS. MOUNT ABOVE NEAREST ACCESSIBLE CEILING. PROVIDE SURE-LITE EBPLED14W OR EQUAL.
3. TYPICAL FOR ALL CORRIDOR LIGHTING: LIGHTS AND CONTROLS SHALL BE AS FOLLOWS: SCHEDULE ON/SCHEDULE OFF WITH 2 HOUR TIMED OVERRIDE SWITCH. DURING "ON" HOURS, OCCUPANCY SENSORS SHALL OPERATE AS AUTOMATIC ON (FULL BRIGHT)/AUTOMATIC DIM TO 50%. DURING "ON" HOURS, SWITCHES SHALL BE MANUAL ON/MANUAL OFF.

GENERAL NOTES:

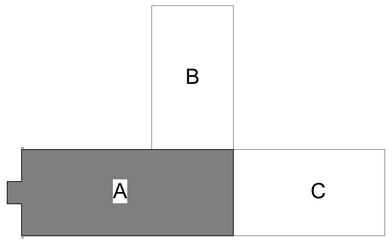
A. LOW VOLTAGE CIRCUITRY IS NOT SHOWN ON THE FLOOR PLANS FOR CLARITY. LOW VOLTAGE CIRCUITRY SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE LIGHTING CONTROL VENDOR'S INSTRUCTIONS AND AS REQUIRED BETWEEN ALL LOW VOLTAGE CONTROLS AND FIXTURES.

B. LIGHTING CONTROLS VENDOR SHALL PRODUCE AND SUBMIT JOB SPECIFIC SHOP DRAWINGS SHOWING ALL DEVICE LOCATIONS, SENSOR COVERAGES, AND TERMINAL-TO-TERMINAL WIRING DIAGRAMS SPECIFIC TO THIS PROJECT.

C. OCCUPANCY/VACANCY COVERAGE SHOWN AS A BASIS OF DESIGN. ADD DEVICES AS REQUIRED FOR FULL COVERAGE WITHIN THE APPLICABLE AREA/ROOM.

D. UP TO (3) 20 AMP CIRCUIT MAY BE COMBINED IN THE SAME CONDUIT. NEUTRALS MAY NOT BE SHARED. SEE SPECIFICATIONS FOR ALL DETAILS/REQUIREMENTS.

E. UPON LOSS OF POWER AND/OR ACTIVATION OF THE FIRE ALARM, ALL AUTOMATICALLY CONTROLLED EMERGENCY LIGHTING SHALL AUTOMATICALLY TURN ON AND FULL BRIGHT. PROVIDE FIRE ALARM RELAY AND LIGHTING CONTROL DEVICES AS REQUIRED.



KEY PLAN
SCALE: N.T.S.

ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 51403
07/16/2024
ANTHONY MICHAEL MARSH

SHEET TITLE:
LIGHTING - FLOOR PLAN - PART A

PROJ. MGR.:	–	AMM
DRAWN:		DB
DATE:	–	07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
E2.0

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
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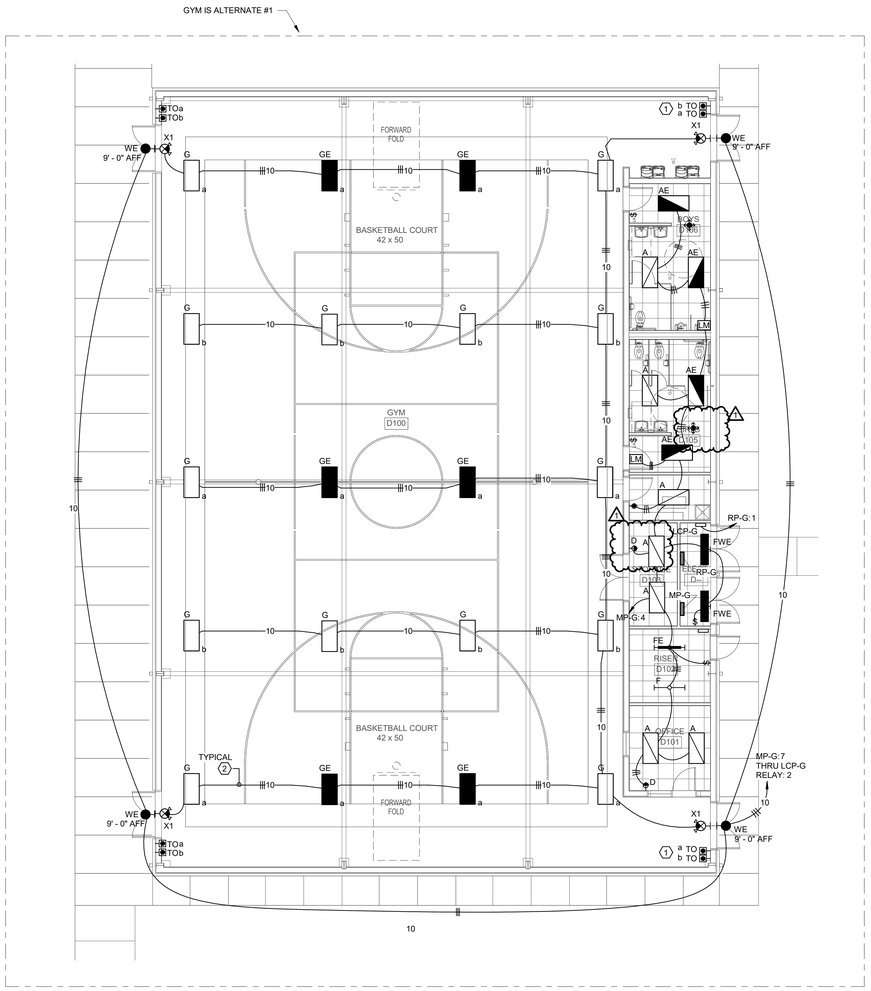


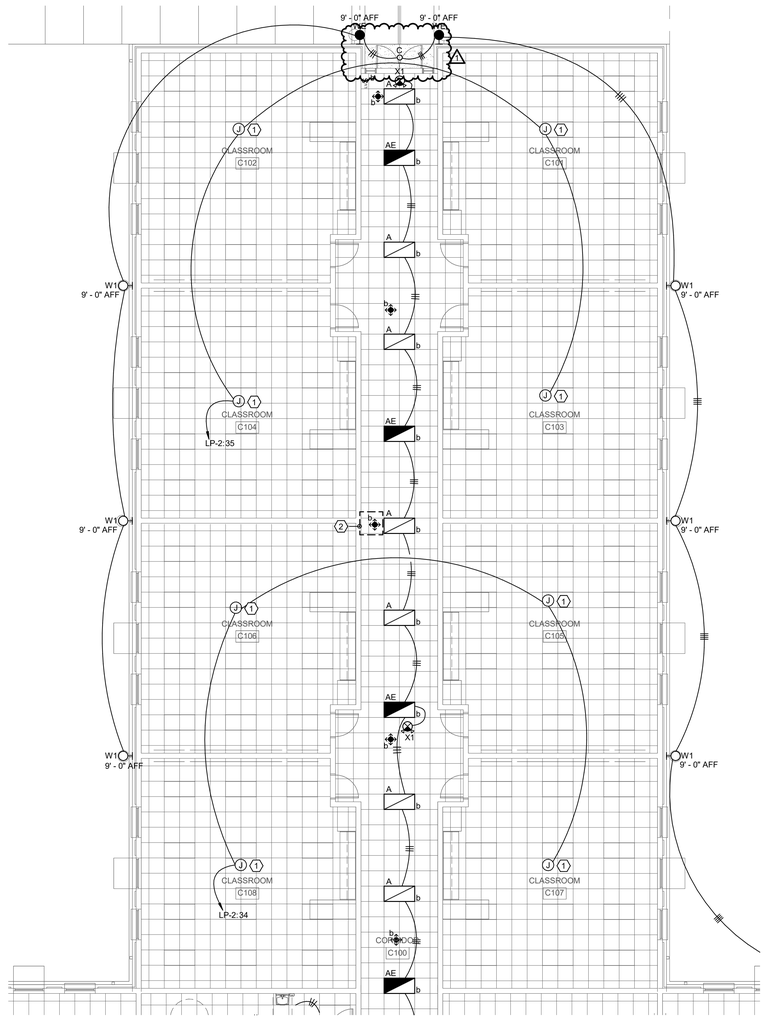
NORTH

2 LIGHTING - GYM FLOOR PLAN

1/8" = 1'-0"

LIGHTING - GYM FLOOR PLAN KEYNOTES:

1. TIME OVERRIDE SHALL INCLUDE ON OFF FUNCTION DURING OPERABLE DURING "ON" HOURS. SEE DETAIL "MULTIZONE SWITCH AND OVERRIDE SWITCH SCHEMATIC". TYPICAL FOR ALL LCP TIME OVERRIDE SWITCHES.
2. COORDINATE WITH GC AND PAINT ALL EXPOSED CONDUIT. CONFIRM COLOR FINISH WITH ARCHTECT. MINIMIZE EXPOSED CONDUIT AS MUCH AS POSSIBLE.



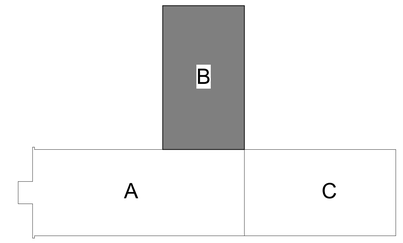
NORTH

1 LIGHTING - FLOOR PLAN - PART B

1/8" = 1'-0"

LIGHTING - FLOOR PLAN - PART B

1. REFER TO E6.0 FOR TYPICAL CLASSROOM LIGHTING CIRCUITS AND CONTROLS.
2. TYPICAL FOR ALL CORRIDOR LIGHTING: LIGHTS AND CONTROLS SHALL BE AS FOLLOWS: SCHEDULE ON/SCHEDULE OFF WITH 2 HOUR TIMED OVERRIDE SWITCH. DURING "ON" HOURS, OCCUPANCY SENSORS SHALL OPERATE AS AUTOMATIC ON (FULL BRIGHT)/AUTOMATIC DIM TO 50%. DURING "ON" HOURS, SWITCHES SHALL BE MANUAL ON/MANUAL OFF.



KEY PLAN

SCALE: N.T.S.

ALABAMA LICENSED No. 51403 PROFESSIONAL 07/16/2024 ENGINEER ANN MICHAEL MARTIN III

SHEET TITLE:
LIGHTING - FLOOR PLAN - PART B

PROJ. MGR.:	– AMM
DRAWN:	DB
DATE:	– 07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
E2.1

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
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Project Number :
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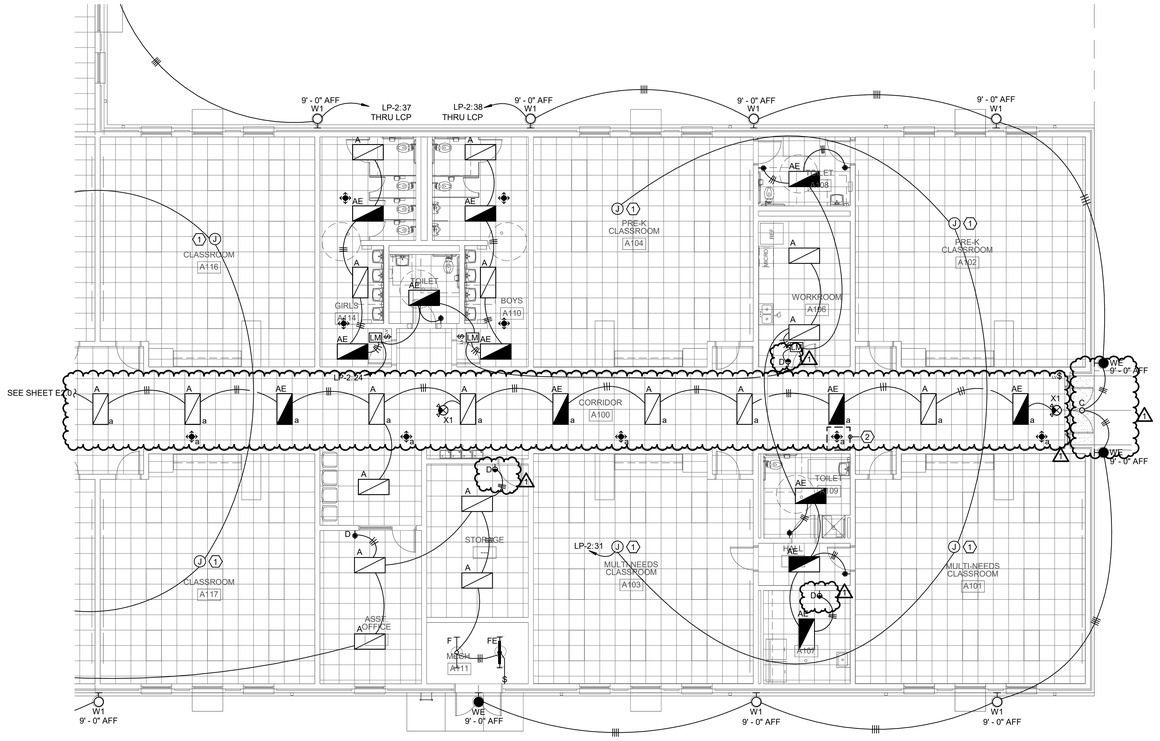
LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

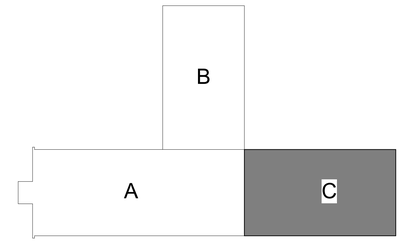


1 LIGHTING - FLOOR PLAN - PART C
1/8" = 1'-0"

NORTH

LIGHTING - FLOOR PLAN - PART C

1. REFER TO E6.0 FOR TYPICAL CLASSROOM LIGHTING CIRCUITS AND CONTROLS.
2. TYPICAL FOR ALL CORRIDOR LIGHTING: LIGHTS AND CONTROLS SHALL BE AS FOLLOWS: SCHEDULE ON/SCHEDULE OFF WITH 2 HOUR TIMED OVERRIDE SWITCH. DURING "ON" HOURS, OCCUPANCY SENSORS SHALL OPERATE AS AUTOMATIC ON (FULL BRIGHT/AUTOMATIC DIM TO 50%. DURING "ON" HOURS, SWITCHES SHALL BE MANUAL ON/MANUAL OFF.



KEY PLAN
SCALE: N.T.S.

ALABAMA LICENSED No. 31403 PROFESSIONAL ENGINEER ALFRED MICHAEL MANGAHAS 07/16/2024

SHEET TITLE:
LIGHTING - FLOOR PLAN - PART C

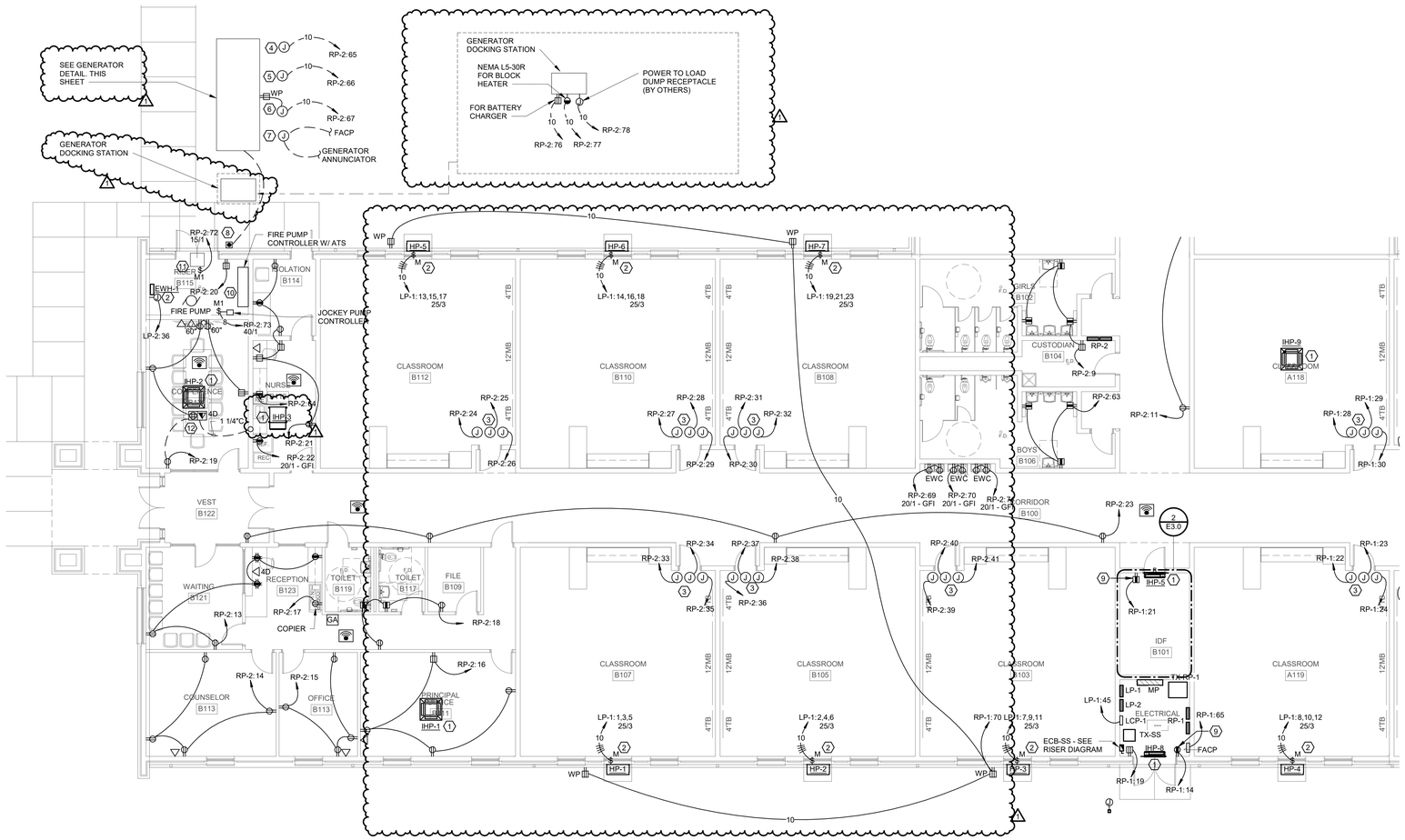
PROJ. MGR.:	AMM
DRAWN:	DB
DATE:	07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

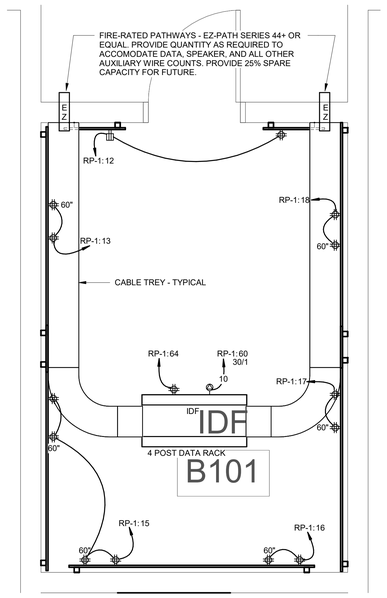
SHEET NO:
E2.2



1 POWER AND VOICE/DATA - FLOOR PLAN - PART A

1/8" = 1'-0"

NORTH



2 IDF COMMUNICATION RACK

1/2" = 1'-0"

GENERAL NOTES/APPLIES TO ALL SHEETS):

A. UP TO (3) 20 AMP CIRCUIT MAY BE COMBINED IN THE SAME CONDUIT. NEUTRALS MAY NOT BE SHARED. SEE SPECIFICATIONS FOR ALL DETAILS/REQUIREMENTS

B. SUPPORT OUTLET BOXES IN STUD PARTITIONS WITH SUPPORT THAT SPANS BETWEEN TWO STUDS.

C. SUPPORT ALL FLEXIBLE CONDUIT WITHIN 12" OF THE ELECTRICAL CONNECTION POINT OF THE EQUIPMENT.

D. PROVIDE ALL UNISTRUT AS REQUIRED FOR MOUNTING OF ELECTRICAL EQUIPMENT CORRESPONDING TO MECHANICAL AND PLUMBING EQUIPMENT.

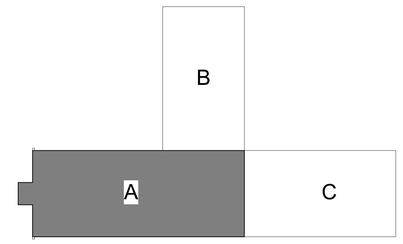
E. VERIFY FINAL LOCATIONS OF ALL MECHANICAL AND PLUMBING EQUIPMENT. COORDINATE CLEARANCES PER NEC 110.26 FOR ALL ELECTRICAL EQUIPMENT.

F. PROVIDE FUSE ADAPTERS FOR OVERSIZED DISCONNECTS SWITCHES AS REQUIRED.

G. ALL 15 AND 20 AMP OUTLETS SHALL BE TAMPER RESISTANT UNLESS PERMITTED IN E-001A NOTES.

SHEET KEYNOTES:

1. POWER FOR INDOOR HEAT PUMP UNITS ARE DERIVED FROM OUTDOOR HEAT PUMP. E.C. SHALL PROVIDE AND INSTALL 3-#12, 1-#12(G), 3/4"C. BETWEEN EACH INDOOR AND OUTDOOR UNIT. E.C. SHALL CONNECT 3-POLE DISCONNECT SWITCH PROVIDED BY MECHANICAL FOR EACH UNIT.
2. DISCONNECTING MEANS INTEGRAL TO THE UNIT. COORDINATE EXACT CONNECTION POINT WITH MECHANICAL EQUIPMENT SUBMITTALS.
3. CIRCUIT REPRESENTS THE TYPICAL CLASSROOM LAYOUT AND CIRCUIT. REFER TO E6.0 FOR TYPICAL CLASSROOM POWER AND VOICE/DATA LAYOUT AND CIRCUITING.
4. BATTERY CHARGER. 120V, 1PH
5. BLOCK HEATER. 120, 1PH
6. GENERATOR OUTLET, ALTERNATOR STRIP HEAT
7. (1) 1"C. TO FACP. (1) 1"C. TO GENERATOR ANNUCIATOR.
8. EMERGENCY POWER OFF BUTTON -1"C. FROM EPO TO GENERATOR.
9. FOR CONDENSATE PUMP. COORDINATE EXACT MOUNTING HEIGHT WITH MECHACNICAL CONTRACTOR AND LOCATE NEXT TO THE UNIT.
10. FIRE PUMP AND FIRE PUMP CONTROLLER (RESPECTIVELY). COORDINATE EXAT LOCATION AND CONNECTION POINTS WITH EEQUIPMENT SUBMITTALS. THE FEED FOR THE FIRE PUMP CONTROLLER SHALL BE ROUTED UNDERGROUND FROM BOTH THE GENERATOR AND THE UTILITY CONNECTION. DO NOT RUN UNPROTECTED THROUGH THE BUILDING AT ANY PIONT.
11. FOR CONNECTION TO AUTO DAMPER. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
12. FLOOR BOX SHALL BE PLACED IN THE CENTERED OF THE ROOM. PROVIDE LEGRAND (OR EQUAL) RFB6-OG WITH (2) RFB6DP FOR (2) DUPLEX OUTLETS AND (1) RFB62A FOR (4) DATA CONNECTIONS (1 1/4"C.). PROVIDE FLANGED COVER FPBTCXX AND CONFIRM COLOR FINISH WITH ARCHITECT PRIOR TO ORDERING.



KEY PLAN

SCALE: N.T.S.

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2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number :
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LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

ALABAMA LICENSED PROFESSIONAL No. 51403 07/16/2024 ENGINEER ANDREW MICHAEL MARSHALL

SHEET TITLE:
POWER AND VOICE/DATA - FLOOR PLAN - PART A

PROJ. MGR.:	–	AMM
DRAWN:		DB
DATE:	–	07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
E3.0

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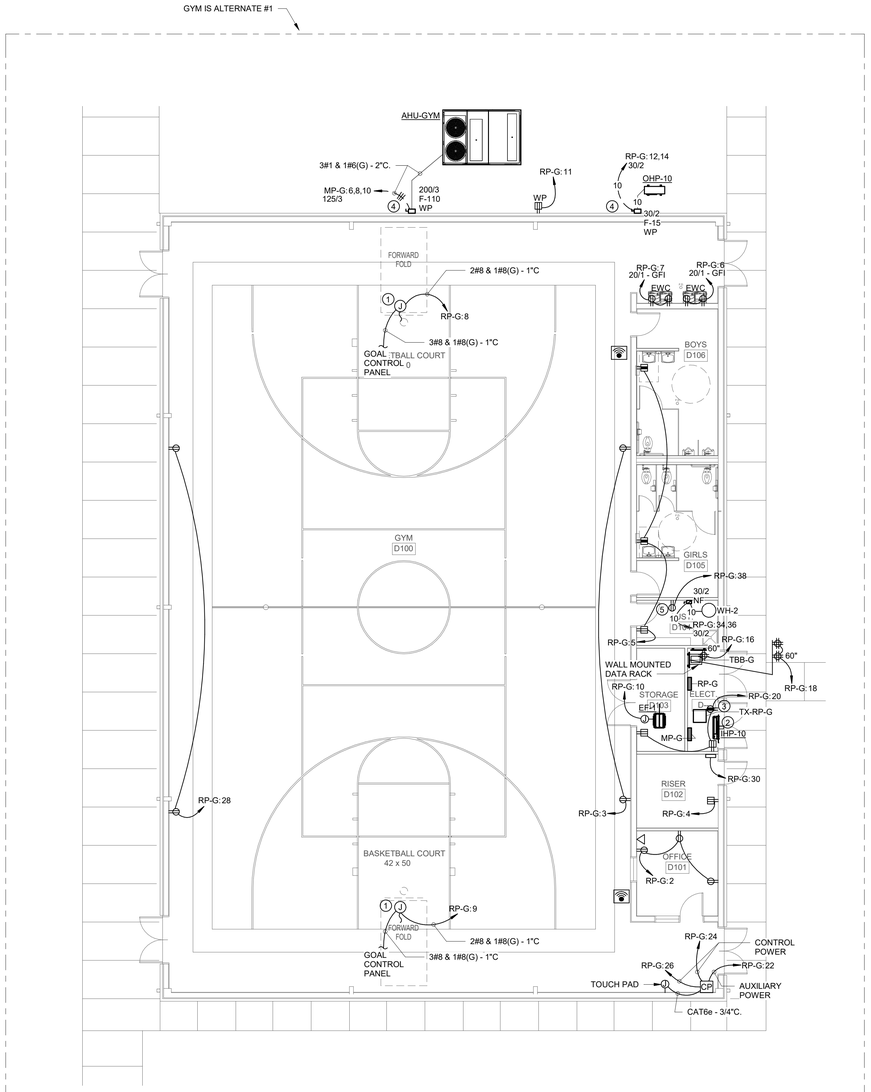
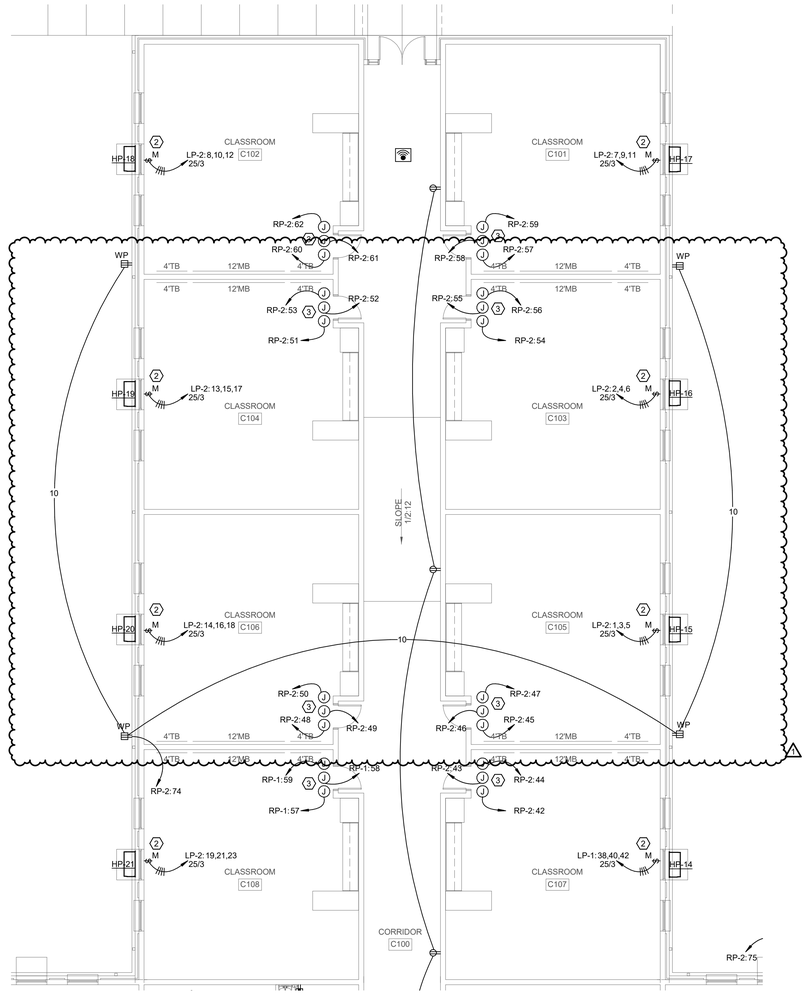




2 POWER AND VOICE/DATA - GYM FLOOR PLAN
NORTH
1/8" = 1'-0"

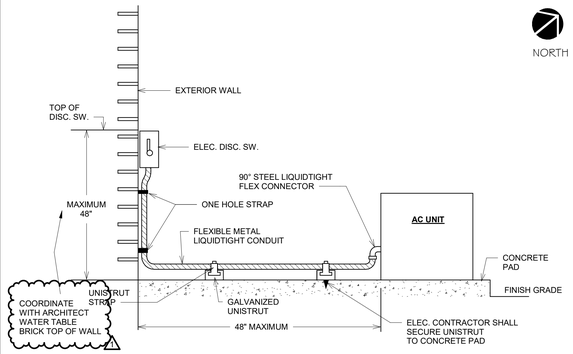
POWER AND VOICE/DATA - GYM FLOOR PLAN SHEET KEYNOTES:

1. FOR BASKETBALL GOAL RAISE/LOWER POWER AND CONTROL PANEL. COORDINATE WITH EQUIPMENT SUBMITTALS AND PROVIDE FINAL CONNECTION DEVICE. COORDINATE CONTROLS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. VERFIY LOCATION WITH OWNER & ARCHITECT PRIOR TO ROUGH-IN.
2. POWER FOR INDOOR HEAT PUMP UNITS ARE DERIVED FROM OUTDOOR HEAT PUMP. E.C. SHALL PROVIDE AND INSTALL 3-#12, 1-#12(G), 3/4"C. BETWEEN EACH INDOOR AND OUTDOOR UNIT. E.C. SHALL CONNECT 3-POLE DISCONNECT SWITCH PROVIDED BY MECHANICAL FOR EACH UNIT.
3. FOR CONDENSATE PUMP. COORDINATE EXACT MOUNTING HEIGHT WITH MECHACNICAL CONTRACTOR AND LOCATE NEXT TO THE UNIT.
4. SEE GROUND MOUNTED MECHANICAL UNIT CONNECTION DETAIL.
5. CIRCULATION PUMP - COORDINATE LOCATION PRIOR TO ROUGH-IN.

1 POWER AND VOICE/DATA - FLOOR PLAN - PART B
NORTH
1/8" = 1'-0"

POWER AND VOICE/DATA - FLOOR PLAN - PART B SHEET KEYNOTES:

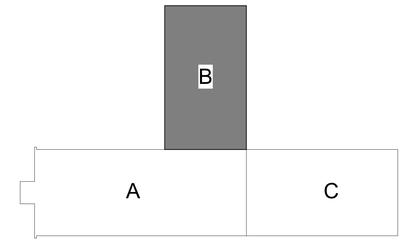
1. N/A
2. DISCONNECTING MEANS INTEGRAL TO THE UNIT. COORDINATE EXACT CONNECTION POINT WITH MECHANICAL EQUIPMENT SUBMITTALS.
3. CIRCUIT REPRESENTS THE TYPICAL CLASSROOM LAYOUT AND CIRCUIT. REFER TO E6.0 FOR TYPICAL CLASSROOM POWER AND VOICE/DATA LAYOUT AND CIRCUITING.



TYP. MECH. UNIT CONNECTION DETAIL

NO SCALE

NOTE:
FOR DISTANCES GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE TO WITHIN 6" OF MECH UNIT - STUB-UP WITH RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECH UNIT WITH CONNECTION MADE AT UNIT AS SHOWN ABOVE.



KEY PLAN
SCALE: N.T.S.

ALABAMA
LICENSED
No. 31603
PROFESSIONAL
07/16/2024
ENGINEER
ANTHONY MICHAEL MARSHALL

SHEET TITLE:
POWER AND VOICE/DATA - FLOOR PLAN - PART B

PROJ. MGR.:	AMM
DRAWN:	DB
DATE:	07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
E3.1

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LATHAN
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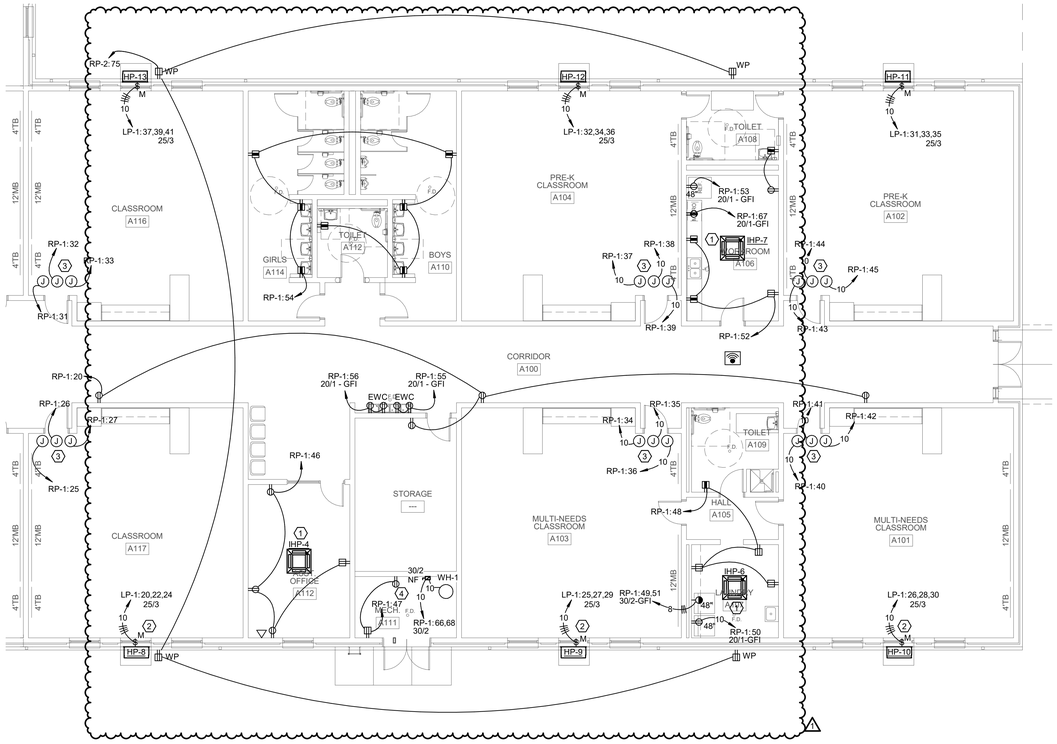

NORTH

1 POWER AND VOICE/DATA - FLOOR PLAN - PART C

1/8" = 1'-0"

SHEET KEYNOTES:

1. POWER FOR INDOOR HEAT PUMP UNITS ARE DERIVED FROM OUTDOOR HEAT PUMP. E.C. SHALL PROVIDE AND INSTALL 3-#12, 1-#12(G), 3/4"C. BETWEEN EACH INDOOR AND OUTDOOR UNIT. E.C. SHALL CONNECT 3-POLE DISCONNECT SWITCH PROVIDED BY MECHANICAL FOR EACH UNIT.
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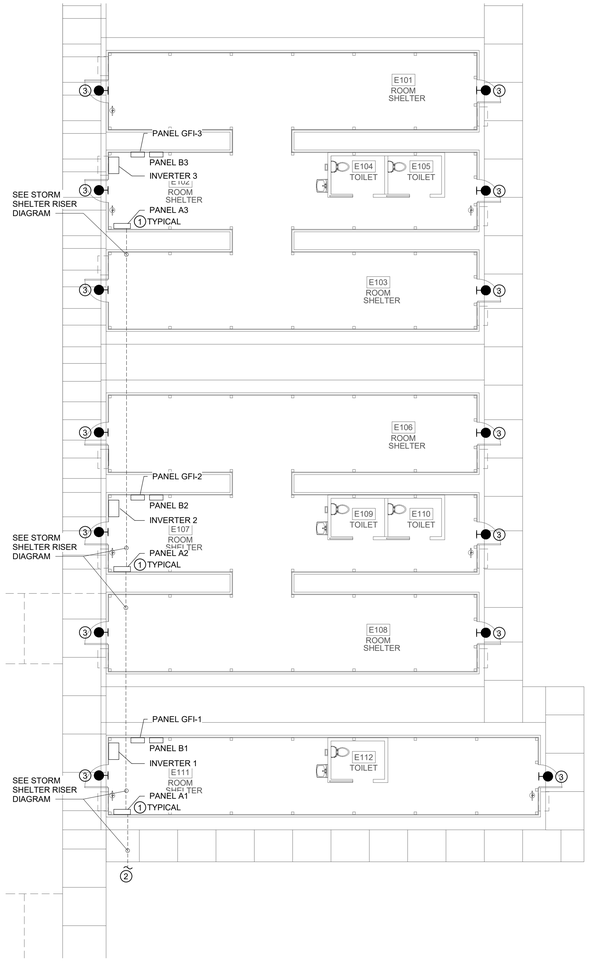
3. CIRCUIT REPRESENTS THE TYPICAL CLASSROOM LAYOUT AND CIRCUIT. REFER TO E6.0 FOR TYPICAL CLASSROOM POWER AND VOICE/DATA LAYOUT AND CIRCUITING.
4. CIRCULATION PUMP - COORDINATE LOCATION PRIOR TO ROUGH-IN.



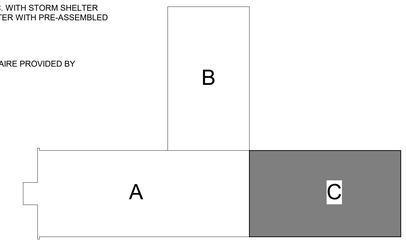
NORTH

2 ELECTRICAL - STORM SHELTER FLOOR PLAN

1/8" = 1'-0"

ELECTRICAL - STORM SHELTER FLOOR PLAN KEYNOTES:

1. COORDINATE ALL ROUGH-IN LOCATIONS, WIRING REQUIREMENTS, ETC. WITH STORM SHELTER VENDOR. STORM SHELTER IS A PRE-MANUFACTURERED STORM SHELTER WITH PRE-ASSEMBLED WIRING & SYSTEMS.
2. TO ECB-SS SEE RISER DIAGRAMS
3. EMERGENCY LIGHTING PROVIDED IN UNIT WITH BATTERY BACKUP, LUMINAIRE PROVIDED BY OTHERS IN THE PRE-MANUFACTURERED STORM SHELTER UNIT.



KEY PLAN

SCALE: N.T.S.

SHEET TITLE:
POWER AND VOICE/DATA - FLOOR PLAN - PART C

PROJ. MGR.:	–	AMM
DRAWN:		DB
DATE:	–	07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
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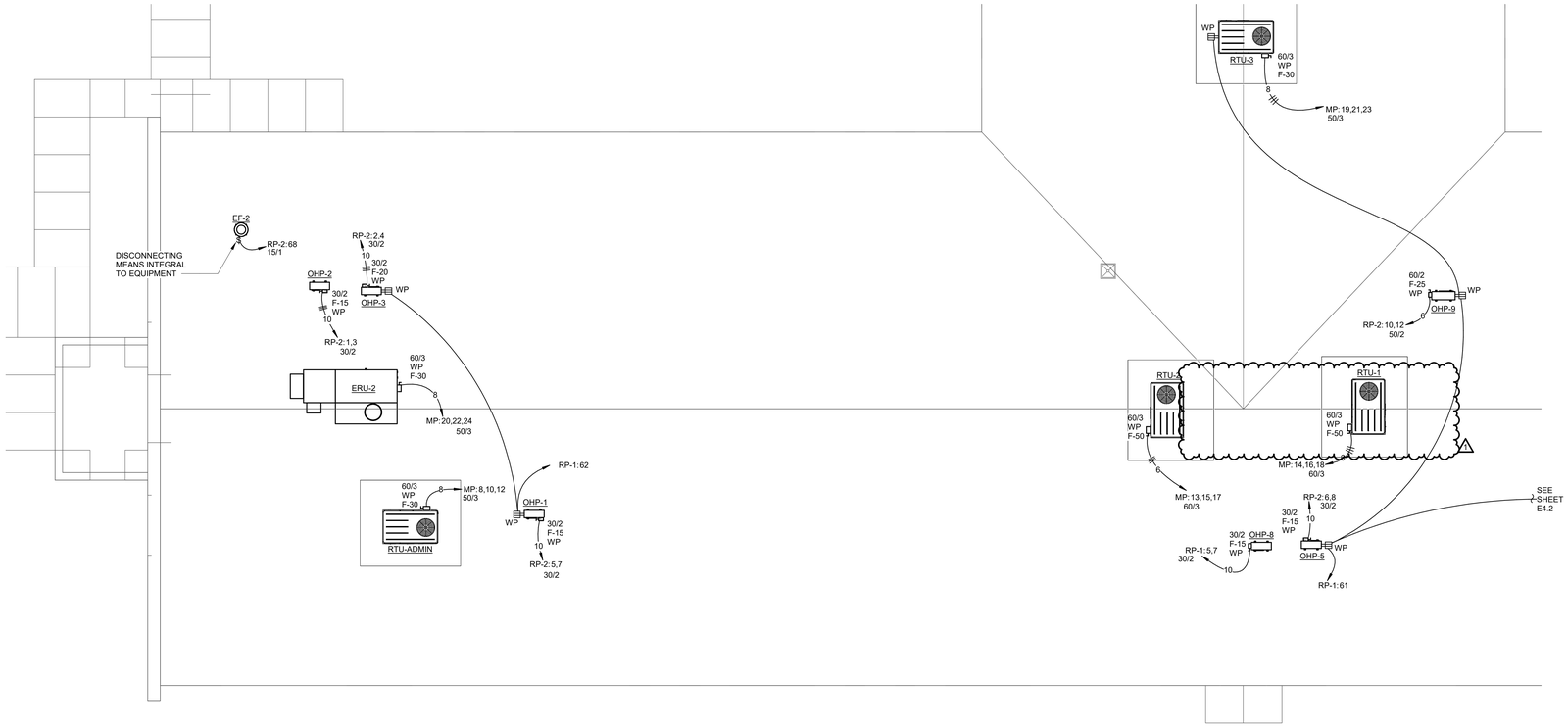
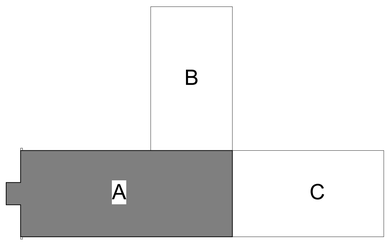


1 ELECTRICAL - ROOF PLAN - PART A

1/8" = 1'-0"

NORTH



KEY PLAN

SCALE: N.T.S.

LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
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13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

ALABAMA
LICENSED
No. 51403
PROFESSIONAL
07/16/2024
ENGINEER
ANDREW MICHAEL MARONEY

SHEET TITLE:
ELECTRICAL - ROOF PLAN - PART A

PROJ. MGR.: –		AMM
DRAWN:		DB
DATE: –		07/16/24
REVISIONS		
1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
E4.0

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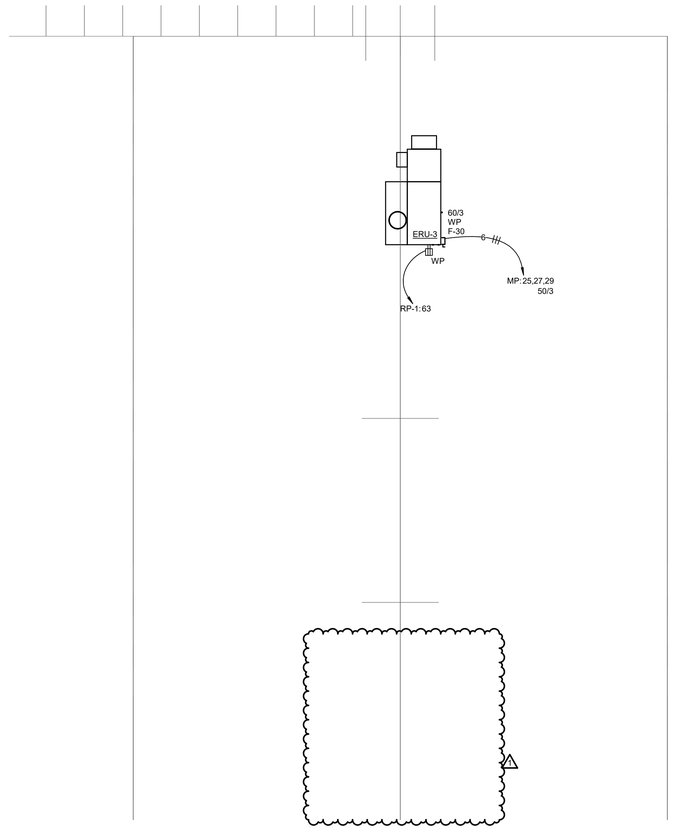
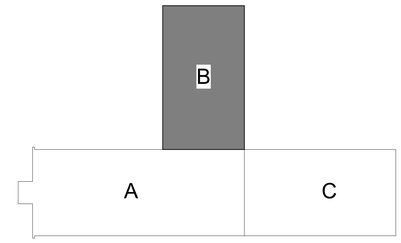


NORTH

1 ELECTRICAL - ROOF PLAN - PART B

1/8" = 1'-0"



KEY PLAN

SCALE: N.T.S.

LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

ALABAMA LICENSED No. 31403 PROFESSIONAL 07/16/2024 ENGINEER ALFRED MICHAEL MINGUS III

SHEET TITLE:
ELECTRICAL - ROOF PLAN - PART B

PROJ. MGR.:	–	AMM
DRAWN:		DB
DATE:	–	07/16/24

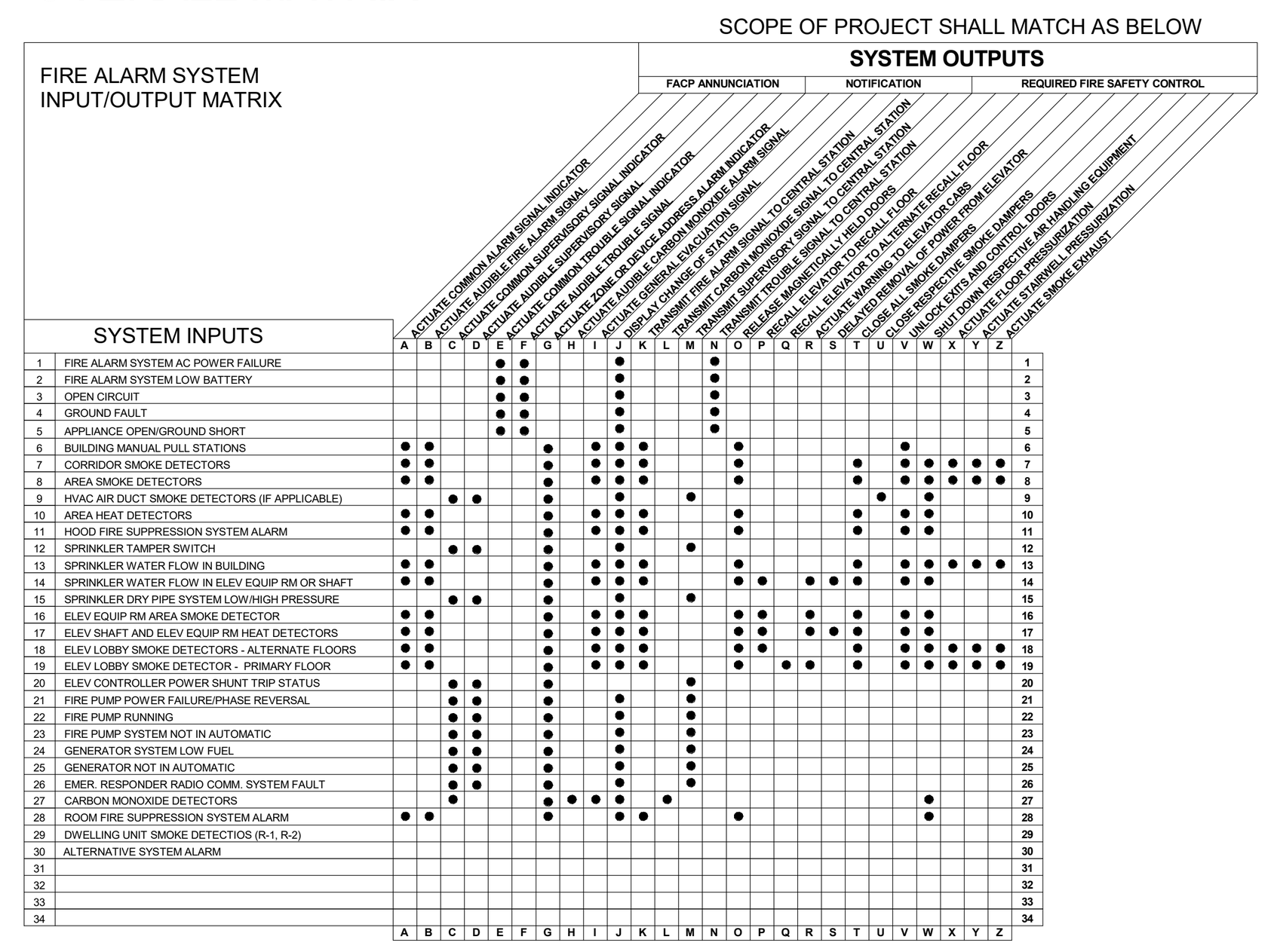
REVISIONS

1	7/16/24	Addendum #1

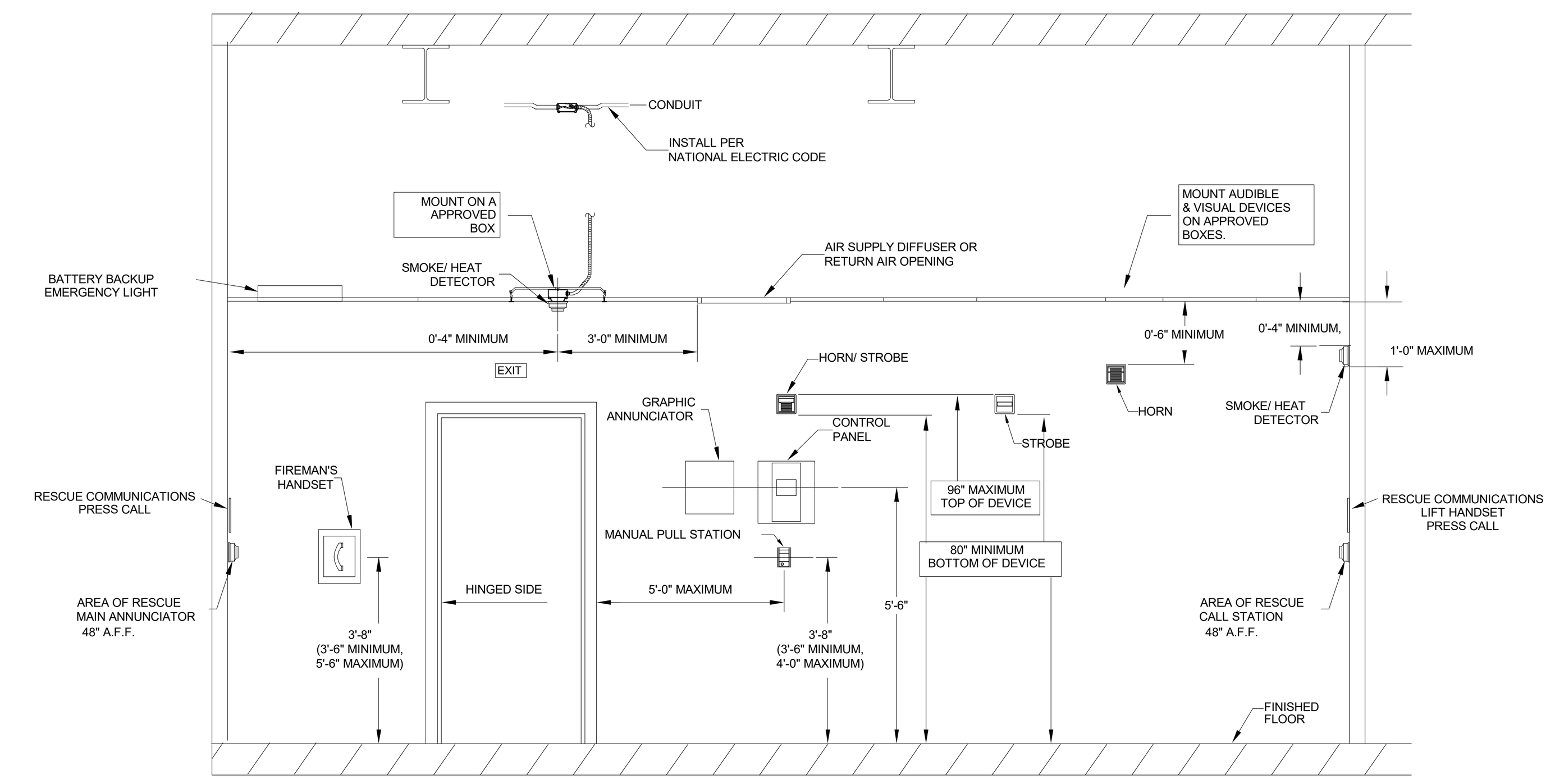
JOB NO. 24-38

SHEET NO:
E4.1

OVERALL MATRIX



INSTALLATION REQUIREMENTS



GENERAL FIRE ALARM NOTES (APPLIES TO ALL FIRE ALARM SHEETS):

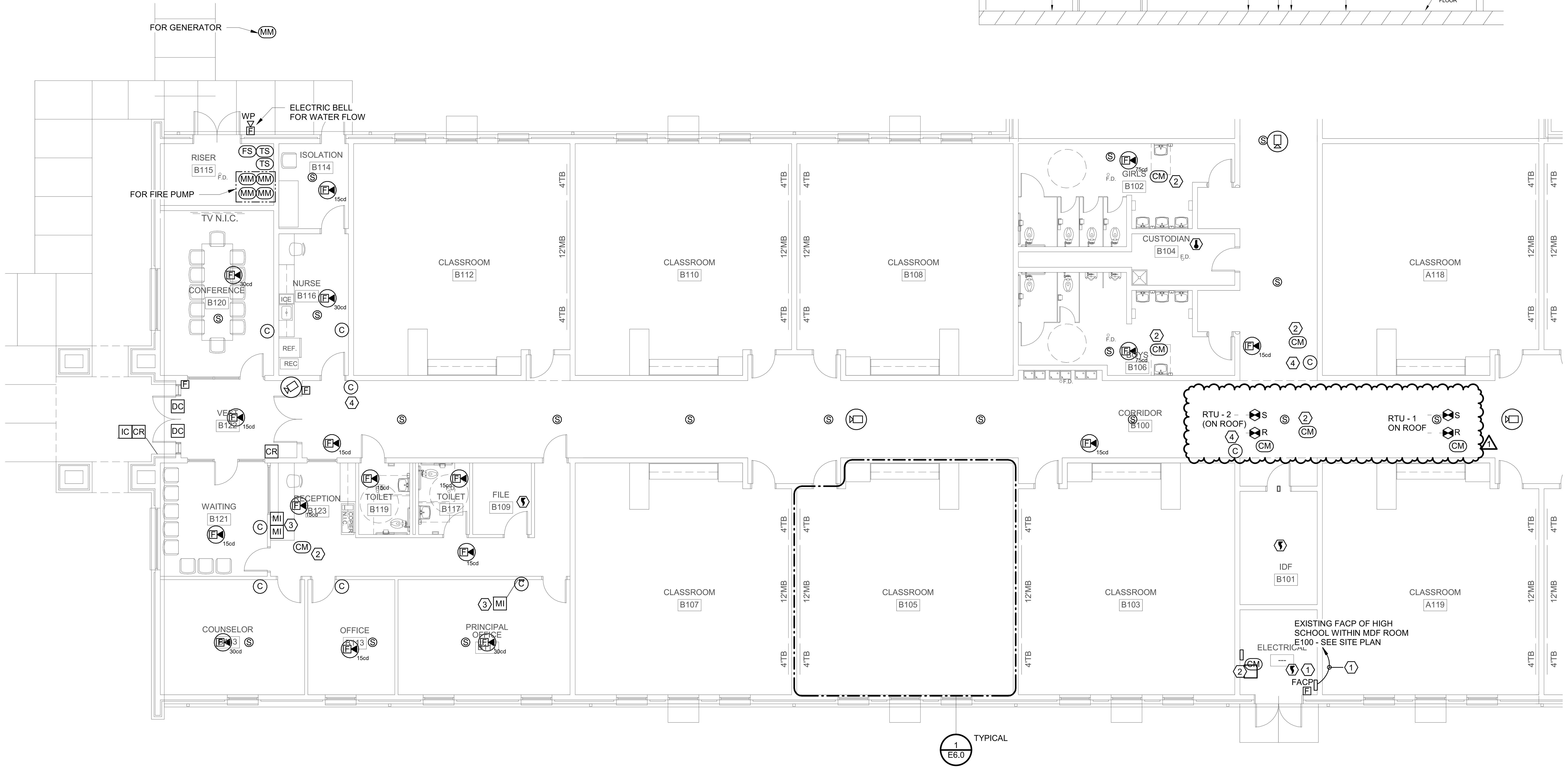
A. SOUND LEVELS SHALL BE 15 dBA ABOVE AMBIENT SOUND LEVEL THROUGHOUT THE ENTIRE BUILDING. DEVICES SHALL MEET THE FOLLOWING SPECIFICATION:
CEILING MOUNTED DEVICES
1/4W - 80 dBA
1/2W - 84 dBA
1W - 87 dBA
2W - 90 dBA
WALL MOUNTED DEVICES
1/4W - 77 dBA
1/2W - 80 dBA
1W - 83 dBA
2W - 86 dBA

B. ALL FIRE ALARM CABLING AND DEVICES SHALL BE IN CONDUIT. SEE SPECIFICATIONS.

C. NEW BUILDING AND EXISTING BUILDING SHALL BE NETWORKED TOGETHER.

D. FIRE ALARM MANUFACTURER SHALL BE EDWARDS TO MATCH EXISTING SYSTEM AND NETWORK.

E. (WHERE ALTERNATE IS TAKEN) GYM BUILDING AND NEW BUILDING SHALL BE ONE NOTIFICATION ZONE. PROVIDE 2 HOUR CABLING BETWEEN FACP AND NAC (WITHIN THE GYM). THE EXISTING BUILDING AND THE NEW BUILDING SHALL EVACUATE/ALARM SEPERATELY.



1 AUXILIARY - FLOOR PLAN - PART A
1/8" = 1'-0"
NORTH

AUXILIARY - FLOOR PLAN - PART A KEYNOTES:

1. NETWORK BACK TO THE EXISTING BUILDING'S FIRE ALARM CONTROL PANEL. PROVIDE SINGLE MODE FIBER.
2. FIRE ALARM WIRING INTERFACE TO LCP OR LIGHTING MODULE (RESPECTIVELY). ALL AUTOMATICALLY SWITCHED LIGHTING WITHIN THE MEANS OF EGRESS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM. UPON ACTIVATION, THE LIGHTS SHALL BE SWITCHED TO "ON" AND FULL BRIGHT.
3. ADMIN PHONE
4. PROVIDE CLOCK WITH DUAL FACE DISPLAY

GENERAL AUXILIARY NOTES:

A. SECURITY DEVICES ARE OFOI. EC SHALL PROVIDE ALL BOXES AND WIRE SUPPORTS OUTSIDE OF ALLOWANCE. PROVIDE THE FOLLOWING ALLOWANCES LISTED BELOW IN NOTES 1 AND 2. ALLOWANCES COVER:
- FURNISHING AND INSTALLING CAMERAS
- FURNISHING AND INSTALLING CARD READERS AT THE TWO FRONT MAIN DOORS
- FURNISHING AND INSTALLING VIDEO CALL IN FROM FRONT DOOR
- FURNISHING AND INSTALLING WIRING FOR ALL CAMERAS AND CARD READERS
- FURNISHING AND INSTALLING SECURITY ACCESS CONTROL PANELS
- FURNISHING AND INSTALLING 64 CHANNEL NVR WITH 12TB HDD AND A 3 MONITOR VIDEO WALL WITH A WORKSTATION. FURNISHING 1 YEAR OF LICENSES.

ALLOWANCES:

1. CCTV SYSTEM - $65,000.00. INCLUDES INSTALLATION OF 39 CAMERAS, A 64 CHANNEL NVR WITH 12TB HDD, 1 YEAR OF LICENSES AND A 3 MONITOR VIDEO WALL WITH A WORKSTATION.
2. ACCESS CONTROL - $9000.00. INCLUDES VIDEO ACCESS WITH INTERCOM ON MAIN DOOR, AND ACCESS ON INTERIOR DOOR.

B. EC SHALL PROVIDE ALL DEVICES, RACEWAYS, BOXES, J-HOOKS, DATA RACK, HORIZONTAL CABLING, FIBER OPTIC CABLING, TESTING, AND TERMINATING UNLESS OTHERWISE NOTED.

C. WIRELESS ACCESS POINT DEVICES ARE OFOI. EC SHALL PROVIDE ALL CABLING AND BOXES. SEE DETAIL FOR WIRELESS ACCESS POINTS.

D. UNESS OTHERWISE NOTED, ALL DATA CABLES WITHIN THE SCOPE OF WORK WIN THE SCHOOL SHALL SHALL BE ROUTED TO NEW IDF DATA RACK AND ALL DATA CABLES WITHIN THE GYM SHOULD BE ROUTED TO TBB-G.

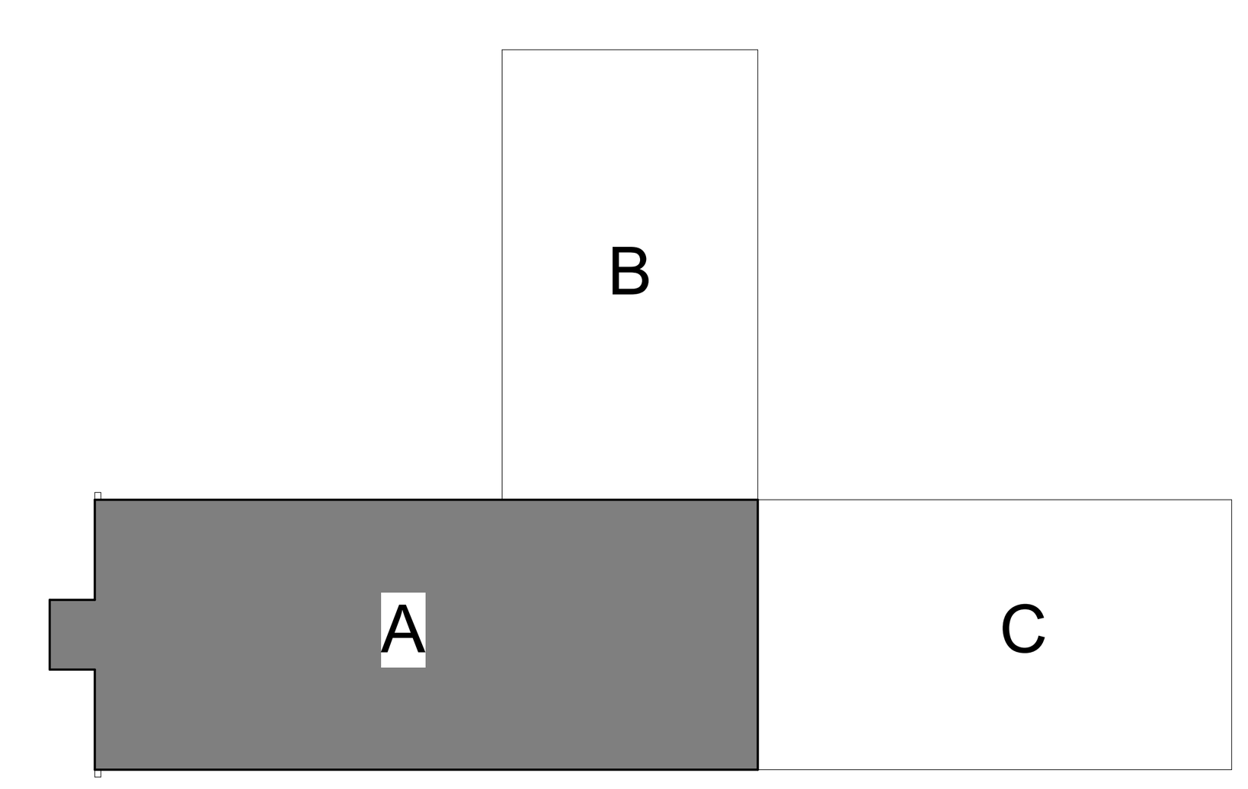
E. SPEAKERS, INTERCOM, AND ALL ASSOCIATED EQUIPMENT SHALL BE CFCI. PROVIDE RACEWAYS, PATHWAYS, AND BOXES AS REQUIRED.

F. PROVIDE BUSHING ON ALL EMPTY CONDUITS. PROVIDE PULLSTRINGS ON ALL EMPTY CONDUITS.

G. LOW VOLTAGE WIRING SHALL NOT BE PERMITTED TO RUN IN WALLS WITHOUT A RACEWAY. A 3/4" MINIMUM EMT CONDUIT SHALL BE PROVIDED TO STUB UP TO THE NEAREST ACCESSIBLE CEILING. PROVIDE J-HOOKS TO SUPPORT ALL LOW VOLTAGE CABLING (EXCPET FIRE ALARM) ABOVE ACCESIBLE CEILING. PROVIDE EMT CONDUIT SLEEVES ABOVE NON-ACCESIBLE CEILINGS AND WITHIN WALLS.

H. ALL FIRE ALARM SHALL BE IN CONDUIT.

I. SEE ROOF PLANS FOR ALL DUCT DETECTORS FOR HVAC UNIT SHUTDOWN.

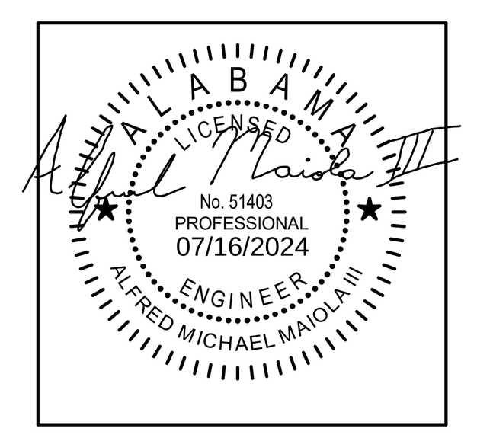


KEY PLAN
SCALE: N.T.S.

Dewberry
2 Riverchase Office Plaza
Suite 205
Hoover, AL 35244
(205) 988-2069
www.dewberry.com
Project Number :
50181596

LATHAN ARCHITECTS

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION



SHEET TITLE:
AUXILIARY - FLOOR PLAN - PART A

PROJ. MGR.:	AMM
DRAWN:	DB
DATE:	07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38
SHEET NO:
E5.0

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2 Riverchase Office Plaza
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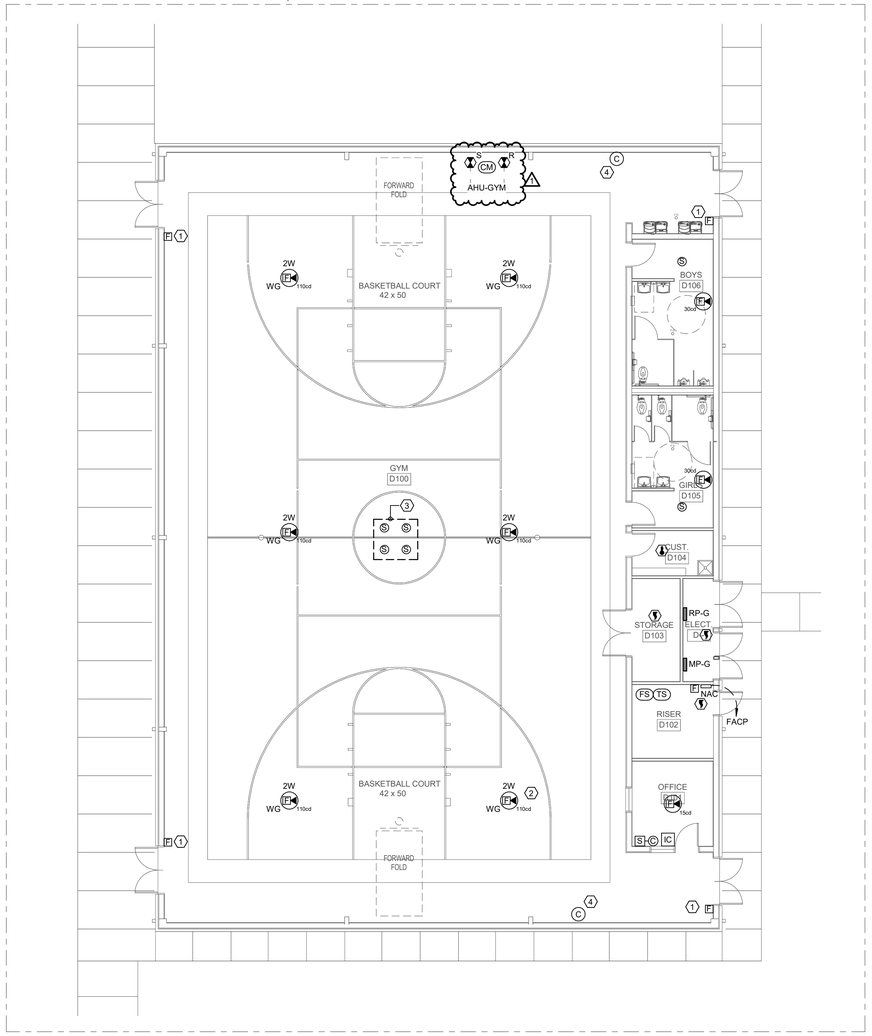
LATHAN ARCHITECTS

GYM IS ALTERNATE #1



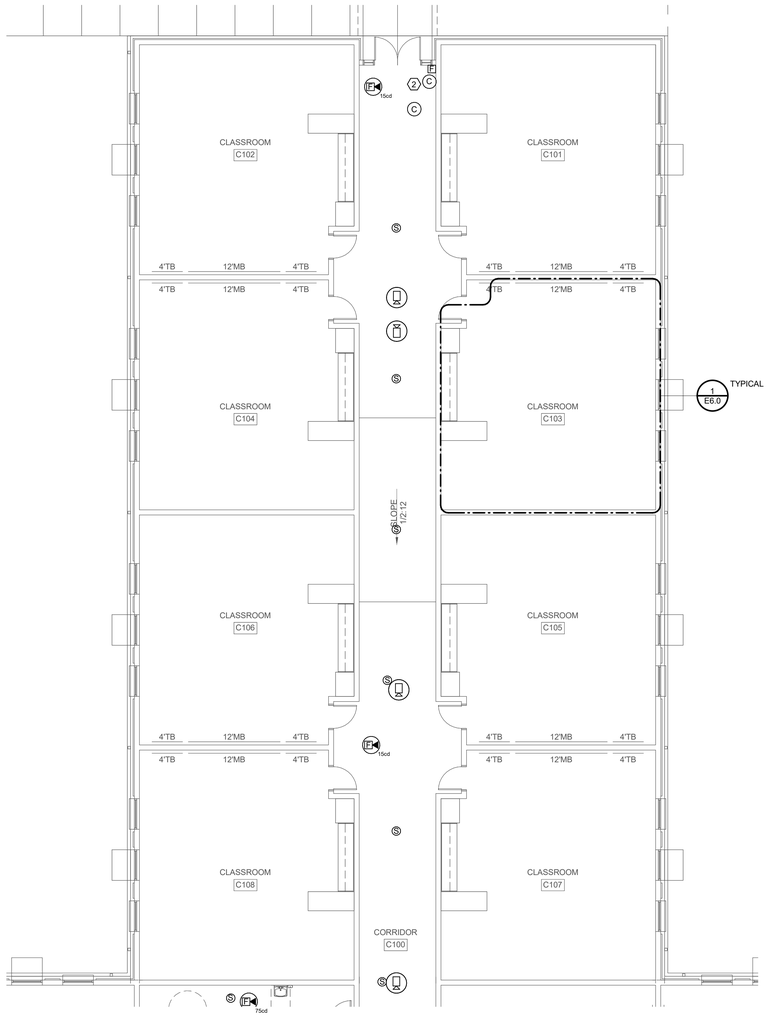
2 AUXILIARY - GYM FLOOR PLAN

NORTH

1/8" = 1'-0"

AUXILIARY - GYM FLOOR PLAN KEYNOTES:

1. PULL STATION SHALL HAVE A CLEAR, POLYCARBONATE COVER WITH WARING HORN. COVER SHALL BE UL LISTED AND ADA COMPLIANT. TYPICAL.
2. PROVIDE WIREGUARD FOR GYM NOTIFICATION DEVICES. TYPICAL.
3. PROVIDE (4) SPEAKER HORNS FOR INTERCOMM SYSTEM
4. PROVIDE (4) WITH WIRE GUARD



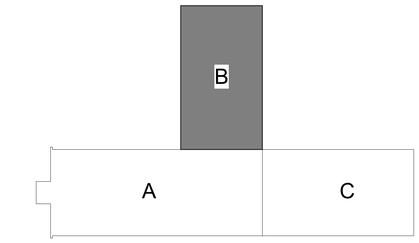
1 AUXILIARY - FLOOR PLAN - PART B

NORTH

1/8" = 1'-0"

AUXILIARY -FLOOR PLAN -PART B KEYNOTES:

1. N/A
2. PROVIDE CLOCK WITH DUAL FACE DISPLAY



KEY PLAN

SCALE: N.T.S.

ELEMENTARY ADDITION TO
SUMTER CENTRAL HIGH SCHOOL
13878 US HIGHWAY 11, YORK, AL 36925
SUMTER COUNTY BOARD OF EDUCATION

ALABAMA LICENSED PROFESSIONAL No. 51403 07/16/2024 ENGINEER ALFRED MICHAEL MINGLEDORFF

SHEET TITLE:
AUXILIARY - FLOOR PLAN - PART B

PROJ. MGR.:	– AMM
DRAWN:	DB
DATE:	– 07/16/24

REVISIONS

1	7/16/24	Addendum #1

JOB NO. 24-38

SHEET NO:
E5.1