



REPLACE FIRE ALARM
VCS Project NO. 2448035

SCHOOL BOARD MEMBERS

Board Chair
Board Vice Chair
Member
Member
Member

Superintendent

REPLACE FIRE ALARM SYSTEM THROUGHOUT CAMPUS.

A. SURVEY PARCEL ID	XXX
B. LEGAL DESCRIPTION	XXX
C. OCCUPANCY TYPE	EDUCATIONAL
D. CONSTRUCTION TYPE	TYPE I NON-COMBUSTIBLE
E. RISK CATEGORY	IV
F. AUTOMATIC SPRINKLER	UNSPRINKLED
G. BUILDING AREA	151,854 SF (ENTIRE CAMPUS)
H. BUILDING HEIGHT	40 FEET AND LOWER
I. OCCUPANT LOAD	XXX

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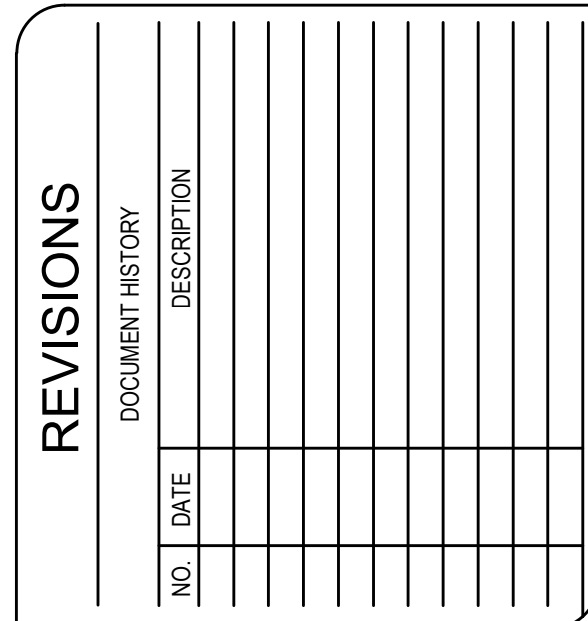
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MPE JOB # : 2024-227

<u>SHEET NO.</u>	<u>SHEET NAME</u>	<u>SCALE</u>
G001	COVER SHEET	NONE
E001	GENERAL NOTES, DEMO LEGEND, AND ABBREVIATIONS	NONE
E002	SYMBOL LEGEND	NONE
E003	SYSTEMS SYMBOL LEGEND	NONE
ED011	FIRE ALARM DEMOLITION SITE PLAN	1" = 60'-0"
ED100	FIRE ALARM DEMOLITION PLAN BUILDINGS 1 AND 2	1/8" = 1'-0"
ED101	FIRE ALARM DEMOLITION PLAN BUILDING 3 EAST WING	1/8" = 1'-0"
ED102	FIRE ALARM DEMOLITION PLAN BUILDING 3 WEST WING	1/8" = 1'-0"
ED103	FIRE ALARM DEMOLITION PLAN BUILDING 4 NORTH WING	1/8" = 1'-0"
ED104	FIRE ALARM DEMOLITION PLAN BUILDING 4 SOUTH WING	1/8" = 1'-0"
ED105	FIRE ALARM DEMOLITION PLAN BUILDING 5	1/8" = 1'-0"
ED106	FIRE ALARM DEMOLITION PLAN BUILDING 6 EAST WING	1/8" = 1'-0"
ED107	FIRE ALARM DEMOLITION PLAN BUILDING 6 WEST WING	1/8" = 1'-0"
ED108	FIRE ALARM DEMOLITION PLAN BUILDING 7	1/8" = 1'-0"
ED109	FIRE ALARM DEMOLITION PLAN BUILDING 8	1/8" = 1'-0"
ED110	FIRE ALARM DEMOLITION PLAN BUILDING 9	1/8" = 1'-0"
ED111	FIRE ALARM DEMOLITION PLAN BUILDING 10	1/8" = 1'-0"
ED112	FIRE ALARM DEMOLITION PLAN BUILDING 11	1/8" = 1'-0"
ED681	FIRE ALARM RISER DIAGRAM - DEMOLITION	NONE
E011	FIRE ALARM RENOVATION SITE PLAN	1"=60'-0"
E100	FIRE ALARM RENOVATION PLAN BUILDINGS 1 AND 2	1/8" = 1'-0"
E101	FIRE ALARM RENOVATION PLAN BUILDING 3 EAST WING	1/8" = 1'-0"
E102	FIRE ALARM RENOVATION PLAN BUILDING 3 WEST WING	1/8" = 1'-0"
E103	FIRE ALARM RENOVATION PLAN BUILDING 4 NORTH WING	1/8" = 1'-0"
E104	FIRE ALARM RENOVATION PLAN BUILDING 4 SOUTH WING	1/8" = 1'-0"
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E501	DETAILS	NONE
E502	DETAILS	NONE
E681	FIRE ALARM RISER DIAGRAM - RENOVATION	NONE

CONSTRUCTION DOCUMENTS

08/20/2025



HERITAGE MIDDLE SCHOOL
REPLACE FIRE ALARM
VCS Project NO. 2448035
1001 PARNELL COURT
DELTONA, FL 32738

Engineer Adrian W. Baus, P.E.		ARCHENGR OF RECORD 10/1/2023
DESIGNED BY AWB	DRAWN BY MM/AWB	
ISSUE DATE 08/20/2025	AE PROJECT NUMBER MPE 2023-159	
SHEET TITLE COVER SHEET		
DRAWING NO G001		

1. NO MULTI-WIRE BRANCH CIRCUITS ARE TO BE USED. EACH CIRCUIT IS TO HAVE SEPARATE INDIVIDUAL NEUTRAL.
2. 120 VOLT BRANCH CIRCUITS, WHERE THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 0-100 FEET, ARE TO HAVE #12 MINIMUM BRANCH CIRCUIT WIRING THROUGHOUT CIRCUIT. (CONDUIT SIZE PER SPECIFICATION AND NEC).
3. 120 VOLT BRANCH CIRCUITS, WHERE THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 101-125 FEET, ARE TO HAVE #10 MINIMUM BRANCH CIRCUIT WIRING HOMERUN (3/4") FROM PANEL CIRCUIT BREAKER TO FIRST DEVICE AND #12 BRANCH CIRCUIT WIRING THROUGHOUT THE REMAINDER OF THE CIRCUIT. (CONDUIT SIZE PER SPECIFICATION AND NEC). NOT LESS THAN THE FIRST 75 FEET OF COMBINED HOMERUN AND BRANCH CIRCUIT TO BE MINIMUM #10 WIRE (3/4").
4. 120 VOLT BRANCH CIRCUITS, WHERE THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 126-160 FEET, ARE TO HAVE #10 MINIMUM BRANCH CIRCUIT WIRING THROUGHOUT CIRCUIT (3/4").
5. 120 VOLT BRANCH CIRCUITS, WHERE THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 161-205 FEET, ARE TO HAVE #8 MINIMUM BRANCH CIRCUIT WIRING HOMERUN (1") FROM PANEL CIRCUIT BREAKER TO FIRST DEVICE AND #10 BRANCH CIRCUIT WIRING THROUGHOUT THE REMAINDER OF THE CIRCUIT (3/4"). NOT LESS THAN THE FIRST 125 FEET OF COMBINED HOMERUN AND BRANCH CIRCUIT TO BE MINIMUM #8 WIRE (1").
6. 120 VOLT BRANCH CIRCUITS, WHERE THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 206-230 FEET, ARE TO HAVE #8 MINIMUM BRANCH CIRCUIT WIRING THROUGHOUT CIRCUIT (1").
7. 120 VOLT BRANCH CIRCUITS, WHERE THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 231-250 FEET, ARE TO HAVE #6 MINIMUM BRANCH CIRCUIT WIRING HOMERUN (1-1/4") FROM PANEL CIRCUIT BREAKER TO FIRST DEVICE AND #10 BRANCH CIRCUIT WIRING THROUGHOUT THE REMAINDER OF THE CIRCUIT (3/4"). NOT LESS THAN THE FIRST 175 FEET OF COMBINED HOMERUN AND BRANCH CIRCUIT TO BE MINIMUM #6 WIRE (1-1/4").
8. 120 VOLT BRANCH CIRCUITS, WHERE THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 251-325 FEET, ARE TO HAVE #6 MINIMUM BRANCH CIRCUIT WIRING HOMERUN (1-1/4") FROM PANEL CIRCUIT BREAKER TO FIRST DEVICE AND #8 BRANCH CIRCUIT WIRING THROUGHOUT THE REMAINDER OF THE CIRCUIT (1"). NOT LESS THAN THE FIRST 250 FEET OF COMBINED HOMERUN AND BRANCH CIRCUIT TO BE MINIMUM #6 WIRE (1-1/4").
9. 120 VOLT BRANCH CIRCUITS, WHERE THE LENGTH OF CIRCUIT CONDUCTORS COMPLETE FROM CIRCUIT BREAKER IN SOURCE PANEL TO ANY DEVICE ON THE CIRCUIT IS 336-370 FEET FROM THE PANEL, ARE TO HAVE #6 MINIMUM BRANCH CIRCUIT WIRING THROUGHOUT CIRCUIT (1-1/4").
10. VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK FOR EXISTING SUBMITTAL PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
11. READ SPECIFICATIONS.
12. SEE RISER DIAGRAMS AND BUILDING PLANS.
13. ALL EMPTY CONDUITS ARE TO HAVE PULL-STRINGS PROVIDED IN THEM.
14. WHERE CONDUIT ROUTING IS SHOWN, THE CONDUITS ARE SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT. THE ROUTINGS SHOWN ARE PROPOSED CONDUIT ROUTINGS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND ROUTING OF CONDUIT PRIOR TO BID. CONTRACTOR IS RESPONSIBLE FOR RELOCATING CONDUIT FROM THE PROPOSED ROUTING SHOWN TO THE ROUTING REQUIRED TO FACILITATE INSTALLATION PER SPECIFICATIONS AND APPLICABLE CODES. COMPLETE WITH ALL COORDINATION AND EXISTING CONDITIONS TAKEN INTO ACCOUNT. CONTRACTOR IS RESPONSIBLE FOR ALL CEILING AND WALL REPAIR/REPLACEMENT AFTER ROUTING OF CONDUIT.
15. ALL CONDUIT TERMINATIONS AT TERMINAL BOARDS ARE TO HAVE BUSHED CONDUIT ENDS.
16. SPLICES IN POWER AND LIGHTING OUTLET BOXES SHALL BE KEPT TO A MINIMUM, PULL CONDUCTORS THROUGH TO DEVICES, EQUIPMENT CABINETS/PANELBOARDS. SPLICING IN WIREWAYS IS NOT PERMITTED UNLESS SPECIAL WRITTEN PERMISSION IS GRANTED BY A/E.
17. NO SPLICES SHALL BE MADE IN COMMUNICATIONS OUTLET BOXES OR PULL BOXES (I.E., FIRE ALARM, COMPUTER, TELEPHONE, ETC.) UNLESS SPECIFIC WRITTEN APPROVAL HAS BEEN GIVEN BY ENGINEER. PULL CABLES THROUGH TO EQUIPMENT/TERMINAL CABINETS.
18. NO SPLICES SHALL BE MADE IN UNDERGROUND (OR FLUSH) IN-GRADE PULL BOXES UNLESS ENGINEER HAS GIVEN SPECIFIC APPROVANCE.
19. CONTRACTOR SHALL INCLUDE IN HIS BID THE TRANSPORT AND DISPOSAL OR RECYCLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL RULES, REGULATIONS AND REGULATIONS APPLICABLE. CONTRACTOR SHALL COMPLY FULLY WITH FLORIDA STATUTE 403.7186 REGARDING MERCURY CONTAINING DEVICES AND LAMPS. LAMPS, BALLASTS AND OTHER MATERIALS SHALL BE TRANSPORTED AND DEPOSED OF IN ACCORDANCE WITH ALL DEP AND EPA GUIDELINES APPLICABLE AT TIME OF DISPOSAL. CONTRACTOR SHALL PROVIDE OWNER WITH WRITTEN CERTIFICATION OF ACCEPTED DISPOSAL.

19. EXISTING CONDITIONS AND UTILITIES INDICATED ARE TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS, VARIOUS SURVEYS, AND FIELD INVESTIGATIONS. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXCEPT AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND/OR BURIAL DEPTHS AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ENGINEER MAY BE NECESSARY AND IT IS INTENDED THAT SUCH DEVIATIONS SHALL BE CONSIDERED A PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL SITE UTILITIES, ETC., PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
21. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN ON PLANS OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE COMPLETION OF THIS WORK. THE CONTRACTOR SHALL LOCATE ALL UTILITIES (BOTH KNOWN AND UNKNOWN) IN AREA OF WORK PRIOR TO EXCAVATION WITH THE USE OF ELECTRONIC LOCATOR/TRACER DEVICES AND EQUIPMENT SUITABLE FOR SUCH USE. REFLECT LOCATED UTILITIES ON AS-BUILT DOCUMENTS.
22. REMOVE EXISTING POWER, LIGHTING, SYSTEMS, MATERIAL AND EQUIPMENT WHICH ARE MADE OBSOLETE OR WHICH INTERFERE WITH THE CONSTRUCTION OF THE PROJECT.
23. REINSTALL ANY SUCH POWER, LIGHTING, SYSTEMS, MATERIALS AND EQUIPMENT WHICH ARE REQUIRED TO REMAIN ACTIVE FOR THE FACILITY TO BE FULLY FUNCTIONAL.
24. ALL EXISTING ELECTRICAL IS NOT SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO BID, AND INCLUDE IN HIS BID THE REMOVAL OF ALL ELECTRICAL EQUIPMENT, WIRE, CONDUIT, DEVICES, FIXTURES, ETC. THAT IS NOT BEING REUSED, BACK TO ITS SOURCE.
25. ALL CONDUIT TO BE CONCEALED UNLESS IMPOSSIBLE DUE TO EXISTING CONDITIONS (I.E. EXPOSED CEILINGS, BUILDING EXTERIOR WALL RUNS, IMPOSSIBLE UNDERGROUND RUNS). CONCEAL ALL CONDUITS ABOVE CEILINGS OR IN WALL/COUNTERS.
26. ALL NEW DEVICES TO BE FLUSH MOUNTED UNLESS SPECIFICALLY NOTED OTHERWISE.
27. FURNISH AND INSTALL JUNCTION BOX(S) ABOVE ACCESSIBLE CEILING WITH FLEXIBLE CONDUIT FLUSH/CONCEALED DOWN EXISTING WALL(S) TO NEW FLUSH WALL DEVICES. REWORK EXISTING CIRCUITS AS REQUIRED TO MAINTAIN CIRCUIT CONTINUITY TO RECEPTACLE, DEVICES AND EQUIPMENT REMAINING. CUT AND PATCH WALL TO LIKE NEW CONDITION AS REQUIRED. (IF CONCEALING CONDUIT DOWN EXISTING WALL IS NOT FEASIBLE, EXPOSED WIREMOLD DROPPED DOWN WALL, UNLESS OTHERWISE NOTED BY SPECIFICATIONS, IS ACCEPTABLE. PAINT TO MATCH MOUNTING SURFACE.) METHOD OF ROUTING WIREMOLD SHALL BE SUBMITTED TO A/E FOR APPROVAL. A/E RESERVES THE RIGHT TO CONTROL SURFACE APPLICATIONS.
28. ALL OUTLET BOXES WHERE FIXTURES OR DEVICES ARE REMOVED SHALL BE REMOVED AND CEILING OR WALL SHALL BE PATCHED TO MATCH EXISTING OR NEW FINISH. IF OUTLET BOX MUST REMAIN TO MAINTAIN CONTINUITY OF CIRCUITING, AN APPROPRIATE ACCESSIBLE BLANK PLATE SHALL BE INSTALLED WITH FINISH TO MATCH EXISTING OR NEW, WHERE APPLICABLE. ALL OUTLET BOXES WHICH MUST BE REMOVED DUE TO REMOVAL OF WALL, AND WHICH MUST REMAIN ACTIVE IN ORDER TO MAINTAIN CIRCUIT CONTINUITY SHALL BE RELOCATED IN CEILING OR FLOOR, SHALL BE ACCESSIBLE, AND SHALL HAVE BLANK COVERPLATE AS DESCRIBED ABOVE.
29. ELECTRICAL CONTRACTOR SHALL INCLUDE ALL EXISTING PANELBOARD SCHEDULES FOR PANELBOARDS RELATED/ASSOCIATED WITH OR WITHIN CONTRACT LIMITS WHETHER SHOWN ON PLANS OR NOT AS PART OF A COMPLETE AS-BUILT SET OF DRAWINGS. SCHEDULES SHALL SHOW FINAL CONFIGURATION, ETC. OF CIRCUITS, CIRCUIT BREAKERS, DIRECTORY, ETC.
30. ALL EXISTING BRANCH CIRCUITS AND FEEDERS (REMAINING ACTIVE) WHICH ARE CONNECTED TO EXISTING PANELBOARDS THAT ARE AFFECTED BY THIS CONTRACT, SHALL BE TRACED-OUT AND PROPERLY NOTED AND IDENTIFIED ON NEW PANEL DIRECTORIES.
31. ALL EXISTING CONDUIT, WIRE, FITTINGS, BOXES, ETC. REMAINING AND/OR UTILIZED WITHIN AREA OF REMODEL/RENOVATION MUST COMPLY WITH SPECIFICATIONS. ELECTRICAL COMPONENTS WHICH DO NOT COMPLY WITH SPECIFICATIONS, AND IS NOT IN COMPLIANCE WITH NATIONAL ELECTRICAL CODE AND LOCAL CODES SHALL BE REPLACED AND/OR REWORKED AT NO ADDITIONAL COST TO OWNER UNDER THIS CONTRACT (I.E. CONDUIT SIZING, ROUTING, SUPPORTS, ETC.).
32. PROVIDE NEW TYPED PANEL DIRECTORIES FOR ALL EXISTING AND NEW PANELBOARDS FOR PANELBOARDS ASSOCIATED WITH CONTRACT WHETHER SHOWN ON PLANS OR NOT REGARDLESS IF SCHEDULES/CIRCUITRY HAS BEEN CHANGED.
33. PROVIDE NEW PHENOLIC LABELS (PER SPEC'S) ON ALL NEW (2) TWO POLE AND (3) THREE POLE CIRCUIT BREAKERS WITHIN ALL EXISTING AND NEW PANELBOARDS ASSOCIATED WITH CONTRACT WHETHER SHOWN ON PLANS OR NOT REGARDLESS IF SCHEDULES/CIRCUITRY HAS BEEN CHANGED.
34. ALL NEW CIRCUIT BREAKERS WITHIN EXISTING PANELBOARD SHALL BE THE SAME MFG. TYPE, STYLE AND A.L.C. RATING OF EXISTING PANELBOARD REGARDLESS OF WHAT IS SHOWN ON PANEL SCHEDULE. FIELD VERIFY ALL EXISTING PANELBOARD(S) RELATED WITH CONTRACT AND PROVIDE CIRCUIT BREAKERS AS NECESSARY TO COMPLY WITH THIS REQUIREMENT.
35. ALL CONCRETE, WALL PATCHING, CEILING REPAIR, WALL FINISHES, AND OTHER GENERAL WORK REQUIRED FOR INSTALLING ELECTRICAL SYSTEMS SHALL BE REPAIRED TO "LIKE NEW ORIGINAL WORK CONDITION."
36. ALL PATCHES OR CEILING PLATES SHALL BE PATCHED OR PAINTED AS DIRECTED BY ENGINEER.
37. PAINT ALL EXPOSED CONDUIT, BOXES, ETC. TO MATCH WALL SURFACE.

41. ALL OPENINGS IN FIRE RATED WALLS AND FLOORS, ETC. MADE BY RENOVATION SHALL BE SEALED AND FIREPROOFED. PROVIDE AND INSTALL FIRESTOPPING ON ALL NEW OR EXISTING CONDUIT OR CABLE THAT PENETRATES ANY FIRE RATED NEW OR EXISTING WALL IN ALL AREAS AFFECTED BY THIS PROJECT. FIELD VERIFY LOCATION OF FIRE RATED WALLS PRIOR TO BID. FIRESTOPPING SYSTEM SHALL BE AS REQUIRED BY UL FOR RATING OF WALL AND CONDUIT/CABLE PENETRATION.
39. DASHED ITEMS INDICATE EXISTING TO REMAIN.
40. "R" ADJACENT TO DEVICE INDICATES EXISTING TO BE REMOVED COMPLETE.
41. NEW UNDERGROUND RACEWAYS ARE TO BE HAND DUG. ROUTE UNDER EXISTING WALKWAYS AS REQUIRED BY OWNER.
42. ALL ITEMS REMOVED AND NOT RE-USED SHALL BE IMMEDIATELY TURNED OVER TO OWNER AS THEY ARE MADE AVAILABLE BY RENOVATION. REMOVE ITEMS FROM JOB SITE AND DELIVER TO OWNERS STORAGE LOCATION(S) AS DIRECTED BY PROJECT MANAGER. DISCARD COMPLETE ITEMS WHICH OWNER WANTS TO REFUSE.
43. WORK TO BE PERFORMED IN STRICT COMPLIANCE WITH ESTABLISHED WORK SCHEDULE BEING SET FORTH BY OWNER/TENANT. COORDINATE ALL WORK. THE CONTRACTOR SHALL FURNISH ADEQUATE FORCES, CONSTRUCTION PLANT, AND EQUIPMENT, AND SHALL WORK SUCH HOURS, INCLUDING NIGHT SHIFTS, OVERTIME OPERATIONS, SUNDAY, AND HOLIDAYS IN ACCORDANCE WITH THE OWNERS OPERATIONAL SCHEDULE. IF THE CONTRACTOR FALLS BEHIND PROGRESS REQUIRED IN THE OPERATIONAL SCHEDULE, THE CONTRACTOR SHALL TAKE SUCH STEPS AS MAY BE NECESSARY TO IMPROVE HIS PROGRESS, AND THE OWNER MAY REQUIRE HIM TO INCREASE THE NUMBER OF SHIFTS AND/OR OVERTIME OPERATIONS, DAY OF WORK AND/OR THE AMOUNT OF CONSTRUCTION PLANT. AT NO ADDITIONAL COST TO THE OWNER UNDER THIS CONTRACT. (IT SHALL BE UNDERSTOOD THAT SEVERAL BID PACKAGES MAY BE CONSTRUCTED BY VARIOUS CONTRACTOR/SUB-CONTRACTORS WITHIN THE SAME WORK SPACE SIMULTANEOUSLY.)
44. COORDINATE WITH OWNER WORK ON FIRE ALARM SERVICE TO CAMPUS. PROVIDE ALL ELECTRICAL AS REQUIRED WHETHER SHOWN OR NOT TO PROVIDE TEMPORARY OUTAGE AND REACTIVATION OF POWER, SECURITY, AND FIRE ALARM TO EXISTING CAMPUS DURING DEMOLITION AND NEW WORK.
45. EXISTING FIRE ALARM SYSTEM CONSISTS OF MANY DIFFERENT BRANDS. EXISTING SYSTEM WIRING/CONDUIT COULD NOT ALL BE VERIFIED. WHAT IS SHOWN IS FROM AS,BUILT DRAWINGS FURNISHED THIS ENGINEER AND IS SHOWN FOR CONVENIENCE OF CONTRACTOR. IN GENERAL, SYSTEM HAS TO BE REPLACED WITH NEW SYSTEM SHOWN. PROVIDE ALL WIRE/CONDUIT, ETC. AS REQUIRED FOR PROPER OPERATION OF NEW SYSTEM AS DIRECTED BY THE ENGINEER.
46. CONTRACTOR MAY REUSE EXISTING CONDUIT (MIN. OF 10' LENGTHS) AND ASSOCIATED FITTINGS, PULL BOXES, ETC., WHICH ARE IN "LIKE NEW CONDITION" AND WHICH MEET THE INTENT OF THE SPECIFICATIONS FOR NEW PRODUCTS. WHEN EXISTING RACEWAYS ARE REUSED, THE CONTRACTOR SHALL REMOVE EXISTING WIRING, PULL IN NEW WIRING, AND CONNECT TO NEW DEVICES AS SHOWN ON THE DRAWINGS AND CALLED FOR IN THE SPECIFICATIONS. REUSE OF EXISTING DEVICES AND WIRING SHALL NOT BE ALLOWED UNLESS SPECIFICALLY NOTED OTHERWISE. ALL EXISTING CONDUITS THAT ARE REUSED SHALL BE ACCEPTABLY IDENTIFIED IN ACCORDANCE WITH THE SPECIFICATIONS.
47. USE OF MC CABLE IS NOT PERMISSIBLE.
48. EMT FITTINGS SHALL BE STEEL SET SCREW TYPE. CONDUIT FITTINGS FOR RACEWAYS OTHER THAN EMT SHALL BE MADE OF STEEL OR MALLEABLE IRON.
49. SPRING STEEL CONDUIT STRAPS AND HANGERS (IE CADDY TYPE) SHALL NOT BE UTILIZED. CEILING WIRES AND INDEPENDENT SUPPORT WIRES SHALL NOT BE USED FOR SUPPORT OF CONDUITS OR BOXES.

(A) ABANDON COMPLETE. PULL OUT CONDUCTORS. REMOVE ALL VISIBLE SECTIONS OF RACEWAY.

(R/A) REMOVE COMPLETE AS NOTED ABOVE EXCEPT THAT PORTIONS OF CONDUIT CONCEALED UNDERGROUND OR IN CONCRETE MAY BE ABANDONED, AS NOTED ABOVE.

(R1) REMOVE ALL ELECTRICAL ASSOCIATED WITH THIS ITEM, COMPLETE BACK TO ITS SOURCE. SOURCE IS CONSIDERED TO BE FIRST UPSTREAM DEVICE OR CIRCUIT BREAKER THAT FEEDS THIS AFFECTED CIRCUIT. SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

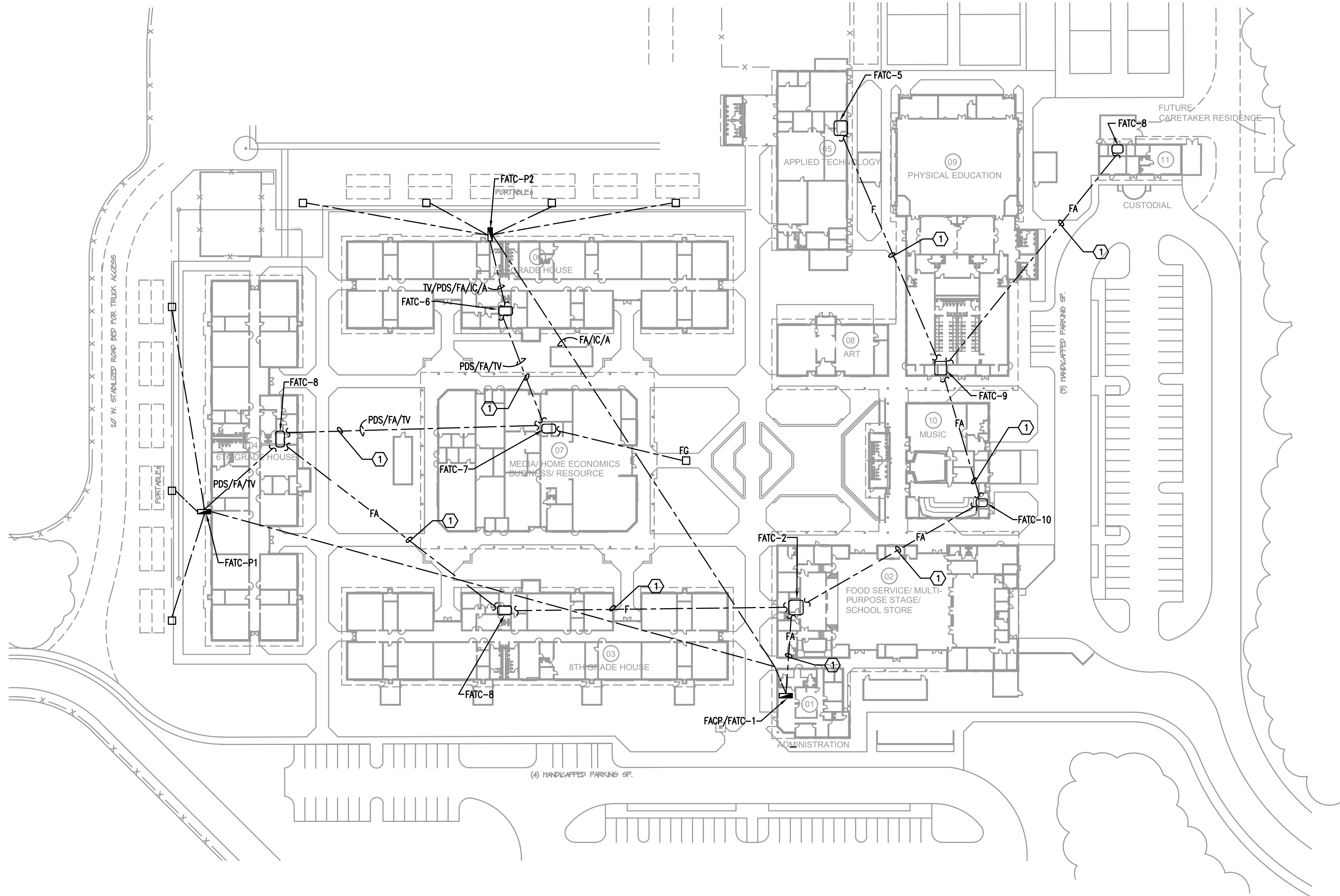
AC - AIR CONDITIONING	CONT. - CONTINUOUS	GND. - GROUND	MCP - MOTOR CIRCUIT PROTECTOR	SHT - SHEET
A.C. - ALTERNATING CURRENT	C.R.I. - COLOR RENDERING INDEX	HTG - HEATERS	M/D - MOUNTED	S/N - SOLID NEUTRAL
ADD #- ADDENDUM #	C.T. - CURRENT TRANSFORMER	HT - HEIGHT	N. - NEUTRAL	SPST - SINGLE POLE SINGLE THROW
A/E - ARCHITECT/ENGINEER (OR ENGINEER WHEN ARCHITECT IS NOT APPLICABLE)	C.U. - COPPER	HZ - HERTZ (CYCLES)	NEC - NATIONAL ELECTRIC CODE	SF - SQUARE FOOT
AF - ADJUSTABLE FREQUENCY DRIVE	C.H. - COMPRESSOR CONDENSER UNIT	HPF - HIGH POWER FACTOR	NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	SW - SWITCH
AFF - ABOVE FINISHED FLOOR	C.W. - COLD WATER	HPS - HIGH PRESSURE SODIUM	NFPA - NATIONAL FIRE PROTECTION ASSOCIATION	SWBD - SWITCHBOARD
AFB - ABOVE FINISHED GRADE	D.B. - DIRECT BURIAL	HP. - HORSEPOWER	N.P.T. - NATIONAL PIPE THREAD	SY. - SYSTEM
AHU - AIR HANDLER UNIT	D.C. - DIRECT CURRENT	HR. - HOUR	NF - NON FUSED	THHN; - THWN NYLON JACKETED WIRE
AMC - AMPS INTERRUPTING CAPACITY	DISC. - DISCONNECT	I.S. - HEAT STRIP	N.C. - NORMALLY CLOSED	T/B - TELEPHONE TERMINAL BOARD
AL - ALUMINUM	DN. - DOWN	IMC - INTERMEDIATE METALLIC CONDUIT	N.O. - NORMALLY OPEN	TTC - TELEPHONE TERMINAL CABINET
ALT - ALTERNATE	DPST - DOUBLE POLE SINGLE THROW	INCAND. - INCANDESCENT	NIC. - NOT IN CONTRACT	TV - TELEVISION
AMP - AMPERE	DWG - DRAWING	IN. - INCHES	NO. - NUMBER	TVTC - TELEVISION TERMINAL CABINET
ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE	E.C. - ELECTRICAL CONTRACTOR (OR GENERAL CONTRACTOR)	J.B. - JUNCTION BOX	OB - OUTLET BOX	TVEC - TELEVISION EQUIP. CABINET
AWG - AMERICAN WIRE GAUGE	ELEV. - ELEVATOR	K.V. - KILOVOLT AMPERE	OT - OUTSIDE DIAMETER	TYP - TYPICAL
⊙ - AT	EMT - ELECTRIC METALLIC TUBING	KW - KILOWATTS	O.L. - OVERLOAD	TEMP. - TEMPERATURE
B.C. - BARE COPPER	EQUIP. - EQUIPMENT	KWH - KILOWATT HOUR	OLS - OVERLOADS	U.L. - UNDERWRITERS' LABORATORIES
BIDS - BAGGAGE INFORMATION DISPLAY SYSTEM	EST - ESTIMATE	K - KELVIN	OLS&Y - OUTSIDE SCREW AND YOKE (SPRINKLER)	VFD - VARIABLE FREQUENCY DRIVE
BLDG - BUILDING	FAAP - FIRE ALARM ANNUNCIATOR PANEL	L.L.D. - LAMP LUMENS DEPRECIATION	% - PERCENT	VHF - VERY HIGH FREQUENCY
BRKR - BREAKER	FACP - FIRE ALARM CONTROL PANEL	LED - LIGHT EMITTING DIODE	φ - PHASE	VHO - VERY HIGH OUTPUT
BTU - BRITISH THERMAL UNIT	FATC - FIRE ALARM TERMINAL CABINET	LIU - LIGHT INTERFACE UNIT	P. - POLE	V. - VOLT
BTUH - BTU PER HOUR	FCPP - FIRE ALARM COMMAND CENTER PANEL	LT. - LIGHT	PL - COMPACT FLUORESCENT LAMP	VA - VOLT AMPERES
C. - CONDUIT	FHC - FIRE HOSE CABINET	LTG. - LIGHTING	P.T. - POTENTIAL TRANSFORMER	VOL. - VOLUME
C.B. - CIRCUIT BREAKER	FIDS - FLIGHT INFORMATION DISPLAY SYSTEM	LTS. - LIGHTS	PSF - POUNDS PER SQUARE FOOT	W - WIRE
CD. - CANDELA	F.L.A. - FULL LOAD AMPERES	L.P.F. - LOW POWER FACTOR	P. - POUNDS PER SQUARE INCH	W.P. - WEATHERPROOF
CBM - CERTIFIED BALLAST MANUFACTURERS	FT. - FEET	M.C.B. - MAIN CIRCUIT BREAKER	PB - PULLBOX	XFMR - TRANSFORMER
CFM - CUBIC FEET PER MINUTE	FLR - FLOOR	M.L.O. - MAIN LUGS ONLY	PNL - PANEL	Y - WYE
CKT. - CIRCUIT	F.C. - FOOTCANDLES	MAINT. - MAINTENANCE	PR - PAIR	YD. - YARD
C/K - CIRCUIT BREAKER	FVNR - FULL VOLTAGE NON-BREAKING	MH. - MANHOLE; METAL HALIDE	PRI. - PRIMARY	YR. - YEAR
C/L - CENTER LINE	GR. - GALVANIZED	MFG. - MANUFACTURER	PVC - POLYVINYL CHLORIDE	YR. - YEAR
CLG. - CEILING	GPH - GALLONS PER HOUR	MAX. - MAXIMUM	RECEPT. - RECEPTACLE	4X - STAINLESS STEEL DUSTIGHT, WATERTIGHT
COMP. - COMPRESSOR	GPM - GALLONS PER MINUTE	MCM - THOUSAND CIRCULAR MILS	RPM - REVOLUTIONS PER MINUTE	
CONN. - CONNECTION	GFI - GROUND FAULT INTERRUPTING	MOCP - MINIMUM OVERCURRENT PROTECTION	R.S. - RAPID START	
COND. - CONDENSER	GRS - GALVANIZED RIGID STEEL CONDUIT	MPH - MILES PER HOUR	SCA - SHORT CIRCUIT AMPS	
		MM - MILLIMETER	SEC. - SECONDARY	
		MIN. - MINIMUM		

[illegible]

HERITAGE MIDDLE SCHOOL
REPLACE FIRE ALARM
VCS Project NO. 2448035
1001 PARNELL COURT
DELTONA, FL 32738

Engineer Adrian W. Baus, P.E.	
DESIGNED BY AWB	DRAWN BY MM/AWB
ISSUE DATE 08/20/2025	AE PROJECT NUMBER MPE 2023-159
SHEET TITLE GENERAL NOTES, DEMO LEGEND, AND ABBREVIATIONS	

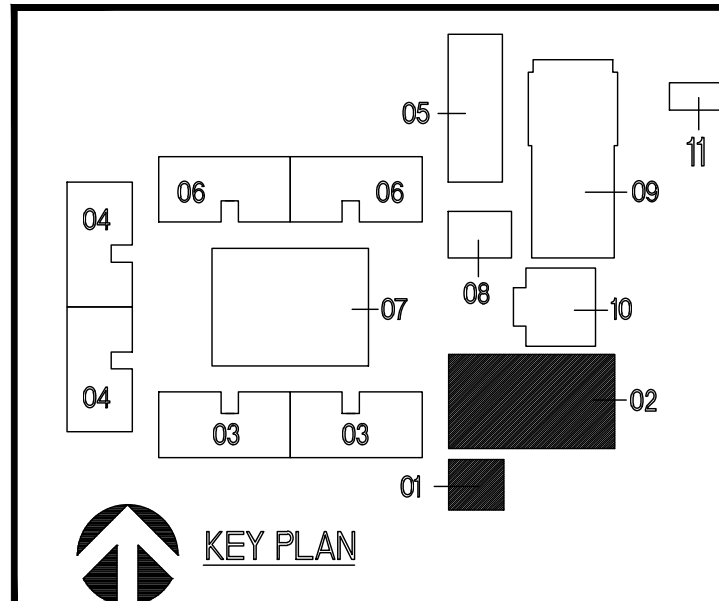
E001



FIRE ALARM DEMOLITION SITE PLAN
1"=60'-0"
0 30 60 120'

- GENERAL NOTES**
- 1) REFER TO SPECIFICATIONS.
 - 2) REFER TO GENERAL NOTES.
 - 3) EXISTING CONDUIT ROUTING IS UNKNOWN.
 - 4) WHERE CONDUIT ROUTING IS SHOWN, THE CONDUIT ROUTING IS SHOWN FOR DIAGRAMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
 - 5) RELOCATE/REWORK EXISTING AS REQUIRED TO FACILITATE PROJECT.
 - 6) REPLACE EXISTING DUCT DETECTORS WITH NEW ADDRESSABLE DUCT DETECTORS.
 - 7) REPLACE EXISTING HEAT DETECTORS WITH NEW ADDRESSABLE CEILING MOUNTED HEAT DETECTORS.
 - 8) REPLACE EXISTING SMOKE DETECTORS WITH NEW ADDRESSABLE SMOKE DETECTORS.
 - 9) REPLACE EXISTING PULL STATIONS WITH NEW ADDRESSABLE PULL STATIONS.
 - 10) REPLACE EXISTING NOTIFICATION APPLIANCES WITH NEW NOTIFICATION APPLIANCES. (I.E. SPEAKER/STROBE, STROBES).
 - 11) PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO FACILITATE A PHASED CONSTRUCTION OF PROJECT AND ROLLING TRANSITION OF AREAS FROM EXISTING SYSTEM TO NEW SYSTEM.
 - 12) FIRE ALARM STROBES WITHIN THE SAME ROOM SHALL FLASH IN SYNCHRONIZATION AS REQUIRED BY NFPA 72.

- HEX NOTES**
- 1) REMOVE EXISTING FIRE ALARM COPPER CABLEING FROM CONDUITS TO FACILITATE INSTALLATION OF NEW FIBER OPTIC CABLEING FOR NEW FIRE ALARM SYSTEM.



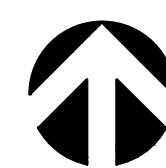
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CERT. OF AUTH. NO. 5596 FAX (407) 740-0365
MPE JOB # : 2023-159

REVISIONS

DOCUMENT HISTORY	
NO.	DESCRIPTION

HERITAGE MIDDLE SCHOOL
REPLACE FIRE ALARM
VCS Project NO. 2448035
1001 PARNELL COURT
DELTONA, FL 32738

Engineer Adrian W. Baus, P.E.	
DESIGNED BY AWB	DRAWN BY MM/AWB
ISSUE DATE 08/20/2025	AE PROJECT NUMBER MPE 2023-159
SHEET TITLE FIRE ALARM DEMOLITION SITE PLAN	
DRAWING NO. ED011	

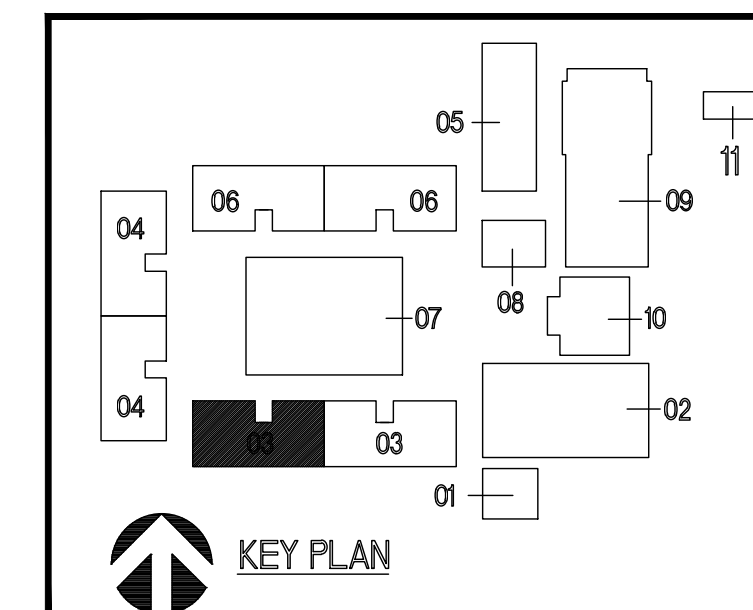


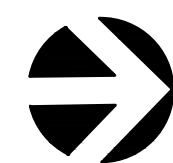
$1/8" = 1' - 0"$



A horizontal scale bar with alternating black and white segments. It is marked with the numbers 0, 4, 8, and 16, representing feet. The total length of the bar is 16 feet.

- ED102

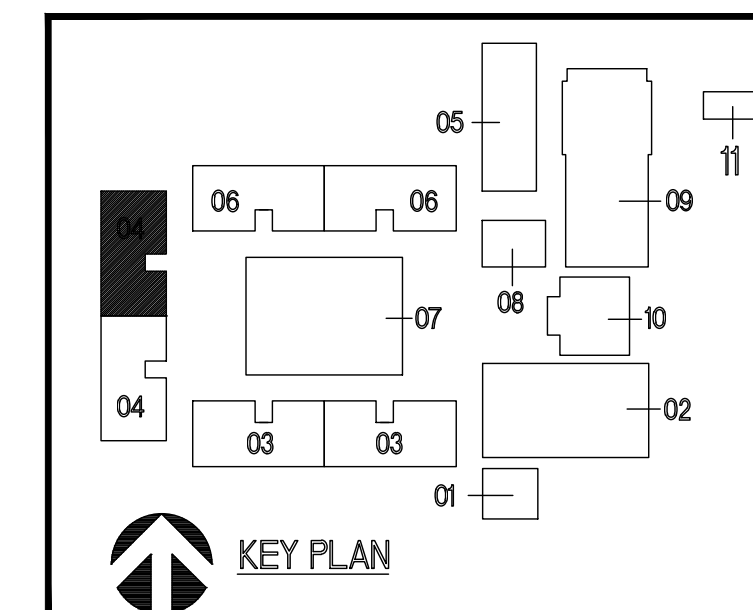


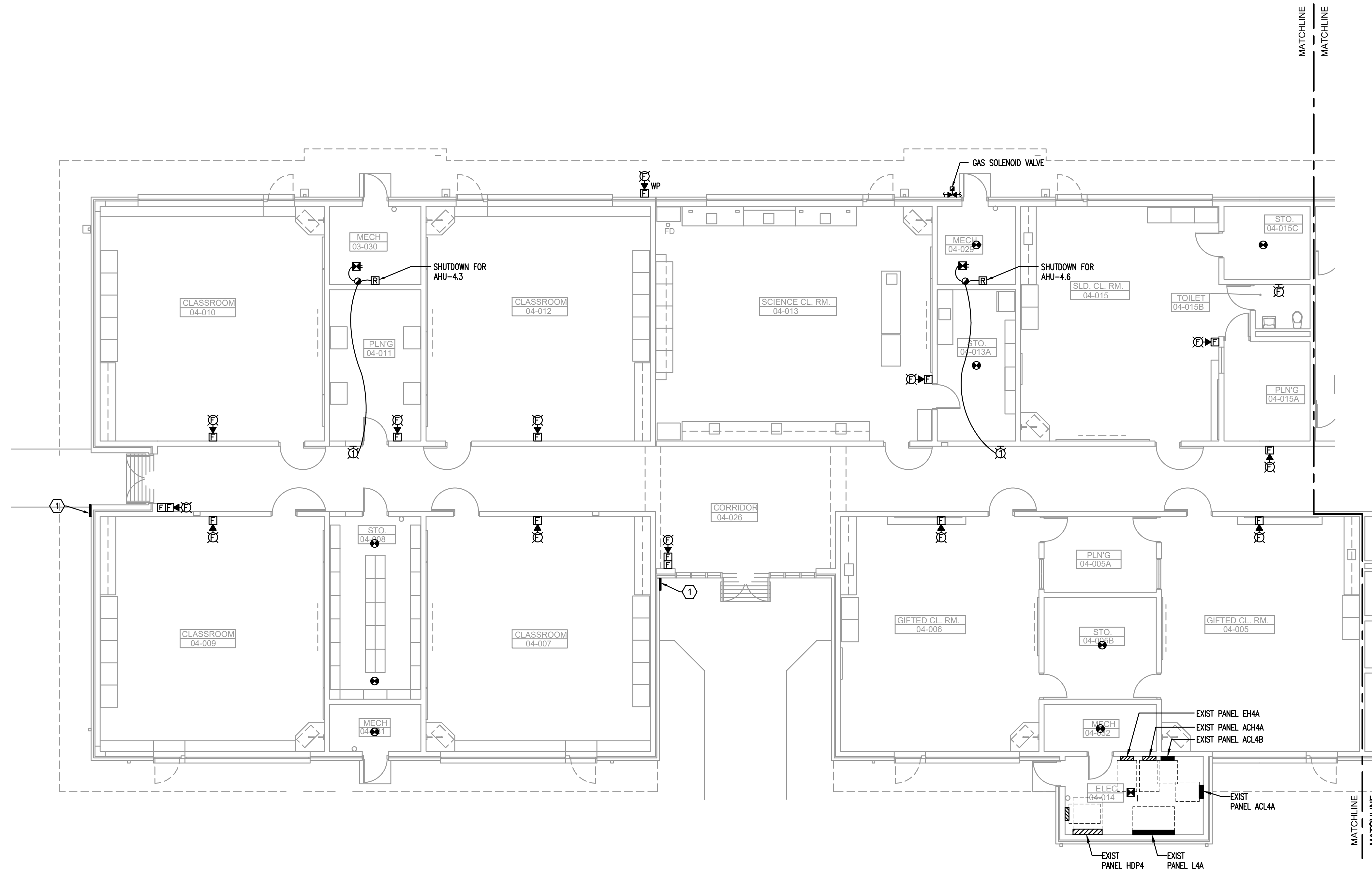


$1/8" = 1'-0"$

A horizontal graphic scale bar with tick marks at 0, 4, 8, and 16 feet. The bar is divided into alternating black and white segments.

- ED103





GENERAL NOTES

- 1) REFER TO SPECIFICATIONS.
- 2) REFER TO GENERAL NOTES.
- 3) EXISTING CONDUIT ROUTING IS UNKNOWN.
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- 12) FIRE ALARM STROBES WITHIN THE SAME ROOM SHALL FLASH IN SYNCHRONIZATION AS REQUIRED BY NFPA 72.

KEY NOTES

- 1 "FIRE ALARM PULL STATION INSIDE" SIGN.

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MPE JOB # 2023-159

REVISIONS

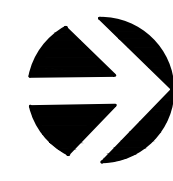
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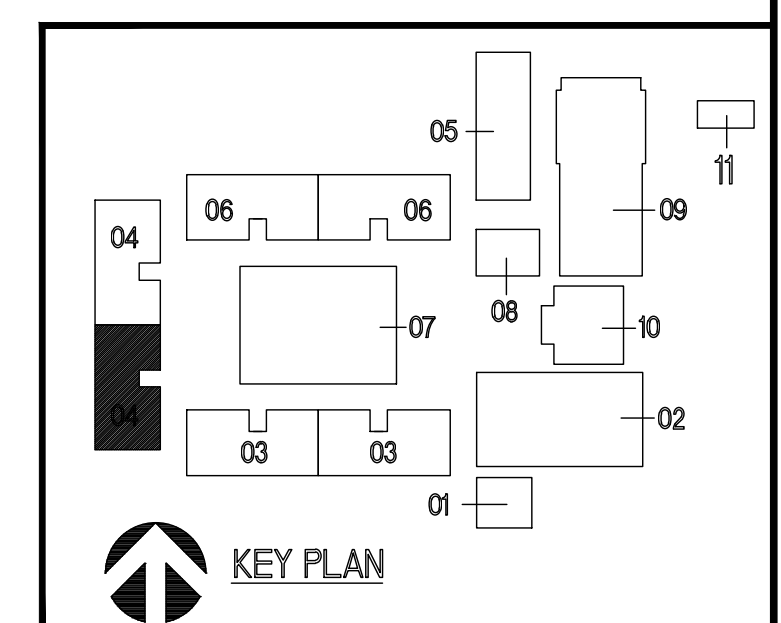
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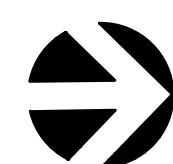
HERITAGE MIDDLE SCHOOL
REPLACE FIRE ALARM
VCS Project NO. 2448035
1001 PARNELL COURT
DELTONA, FL 32738

Engineer
Adrian W. Baus, P.E.

DESIGNED BY AWB	DRAWN BY MM/AWB
ISSUE DATE 08/20/2025	AE PROJECT NUMBER MPE 2023-159
SHEET TITLE FIRE ALARM DEMOLITION PLAN BUILDING 4 SOUTH WING	
DRAWING NO. ED104	

 **FIRE ALARM DEMOLITION PLAN BUILDING 4 SOUTH WING**
1/8"=1'-0"
0 4 8 16'

 **KEY PLAN**

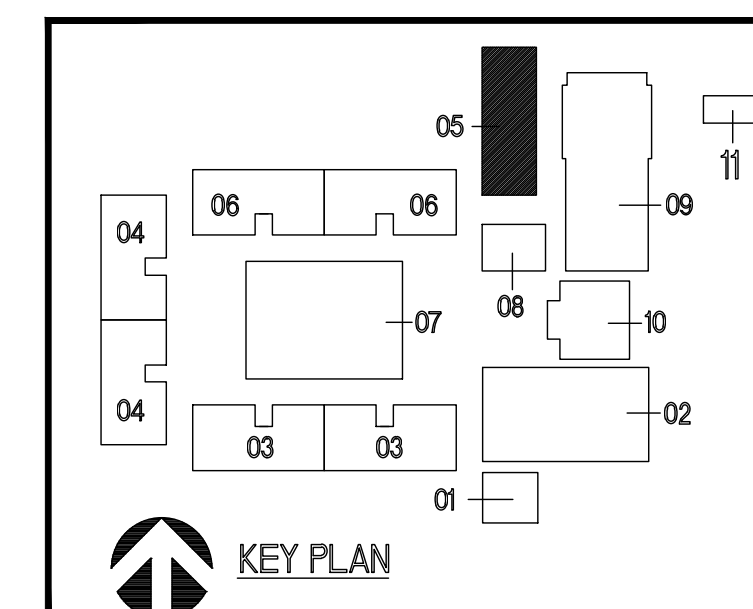


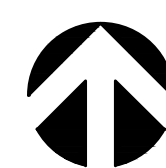
$1/8" = 1' - 0"$



A horizontal graphic scale bar with alternating black and white segments. It is marked with the numbers 0, 4, 8, and 16, representing feet. The total length of the bar is 16 feet.

- ED105



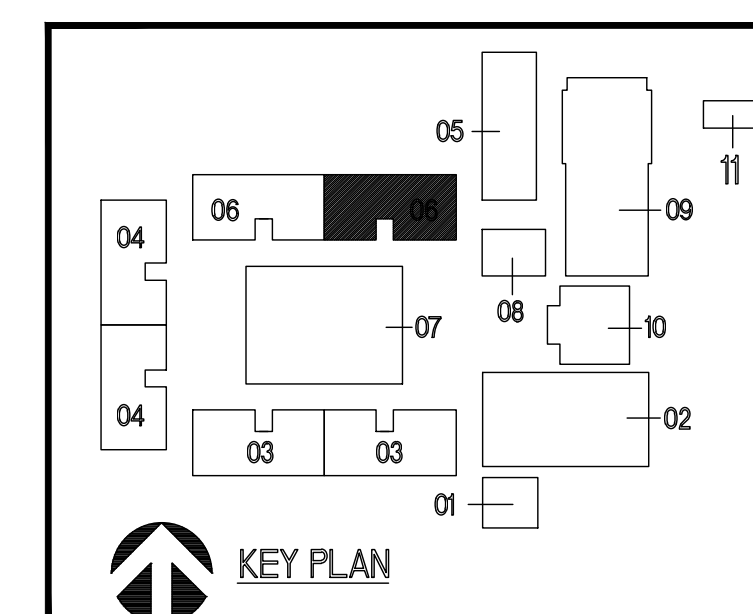


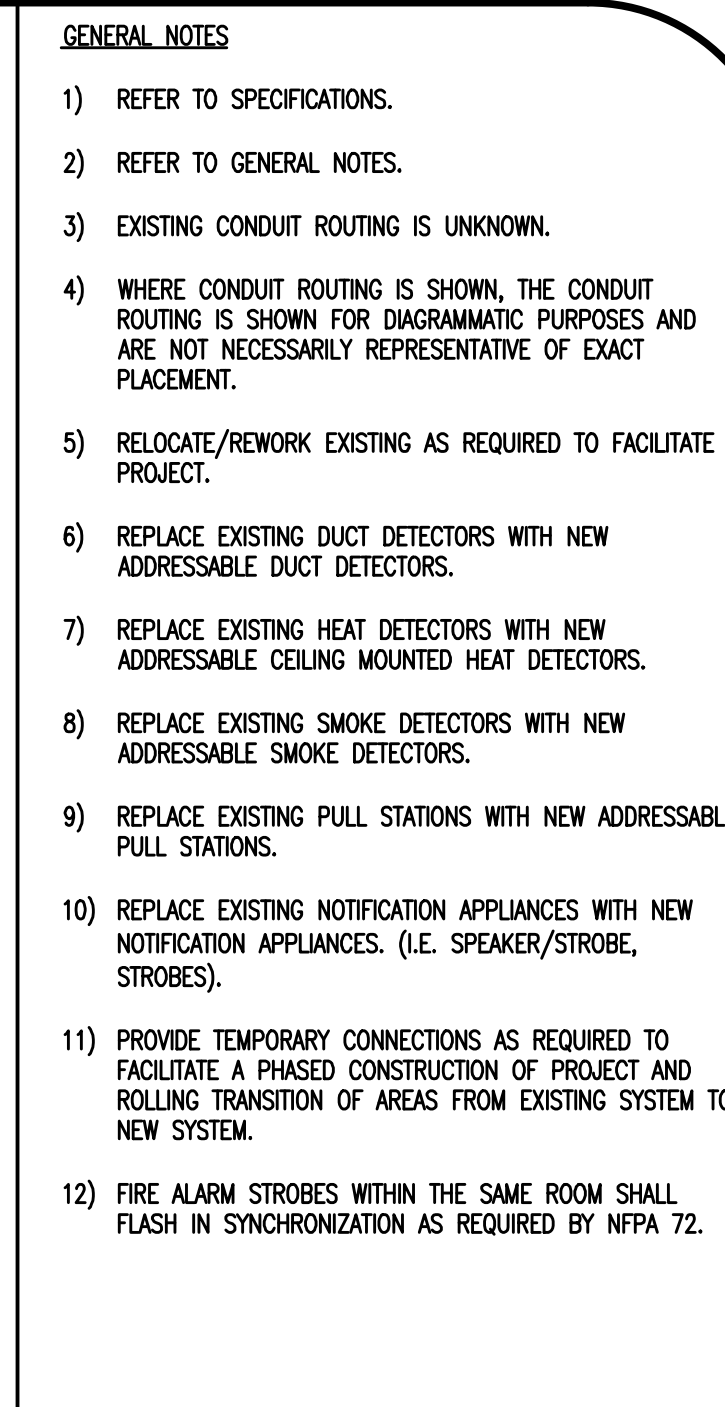
$1/8" = 1' - 0"$



A horizontal graphic scale bar with alternating black and white segments. It is marked with the numbers 0, 4, 8, and 16, representing feet. The total length of the bar is 16 feet.

- ED106





1 "FIRE ALARM PULL STATION INSIDE" SIGN.

DOCUMENT HISTORY		
NO.	DATE	DESCRIPTION

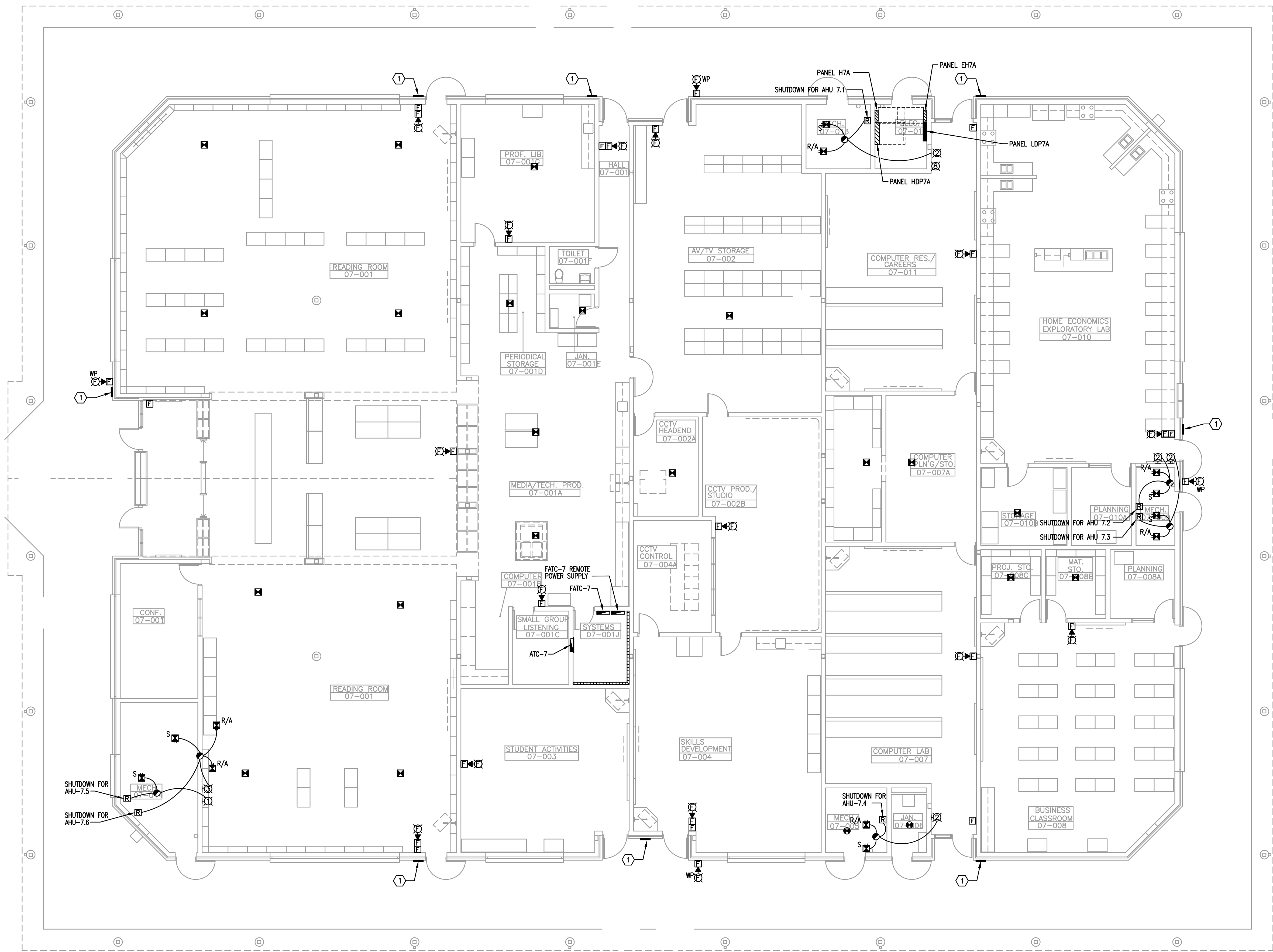
KEY PLAN

The key plan shows a building layout with the following rooms and features:

- 01: Small rectangular room at the bottom left.
- 02: Large rectangular room at the bottom right.
- 03: Two small rectangular rooms in the center bottom.
- 04: Two small rectangular rooms on the left side.
- 05: Shaded black rectangular room at the top left.
- 06: Small rectangular room at the top center.
- 07: Large rectangular room in the center.
- 08: Small square room in the center right.
- 09: Large rectangular room at the top right.
- 10: Small rectangular room at the bottom right of room 09.

Engineer Adrian W. Baus, P.E.		ARCHENGCH OF RECORD
DESIGNED BY AWB	DRAWN BY MM/AWB	
ISSUE DATE 08/20/2025	AE PROJECT NUMBER MP# 2023-159	
SHEET TITLE FIRE ALARM DEMOLITION PLAN BUILDING 6 WEST WING		
DRAWING NO. ED107		



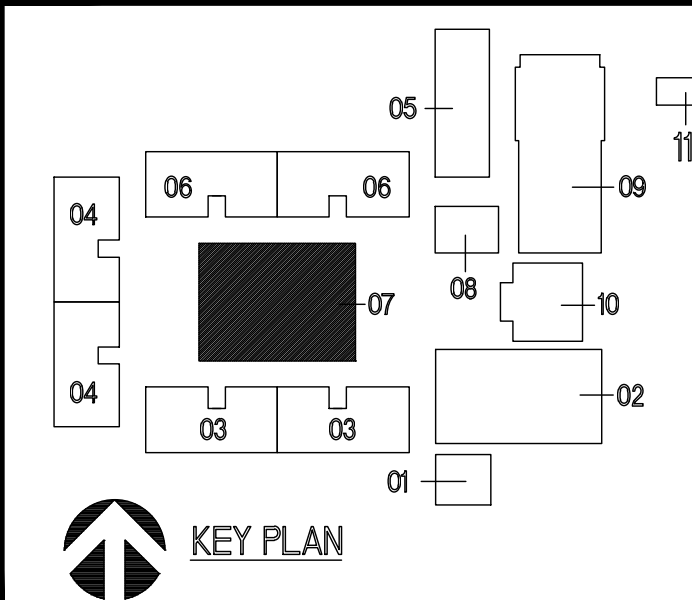


GENERAL NOTES

- 1) REFER TO SPECIFICATIONS.
- 2) REFER TO GENERAL NOTES.
- 3) EXISTING CONDUIT ROUTING IS UNKNOWN.
- 4) WHERE CONDUIT ROUTING IS SHOWN, THE CONDUIT ROUTING IS SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
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- 12) FIRE ALARM STROBES WITHIN THE SAME ROOM SHALL FLASH IN SYNCHRONIZATION AS REQUIRED BY NFPA 72.

KEY NOTES

- ① "FIRE ALARM PULL STATION INSIDE" SIGN.



FIRE ALARM DEMOLITION PLAN BUILDING 7

1/8"=1'-0"
0 4 8 16'

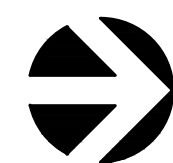
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MPE JOB # 2023-159

REVISIONS

DOCUMENT HISTORY	
NO.	DESCRIPTION

HERITAGE MIDDLE SCHOOL
REPLACE FIRE ALARM
VCS Project NO. 2448035
1001 PARNELL COURT
DELTONA, FL 32738

Engineer Adrian W. Baus, P.E.	
DESIGNED BY AWB	DRAWN BY MM/AWB
ISSUE DATE 08/20/2025	AE PROJECT NUMBER MPE 2023-159
SHEET TITLE FIRE ALARM DEMOLITION PLAN BUILDING 7	
DRAWING NO. ED108	

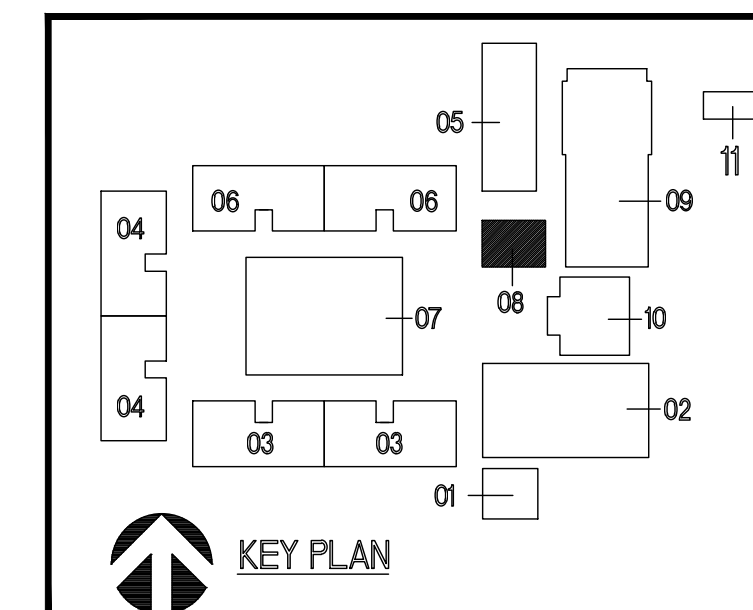


$1/8" = 1'-0"$



A horizontal scale bar with tick marks at 0, 4, 8, and 16 feet. The bar is divided into four equal segments, each representing 4 feet.

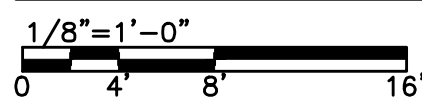
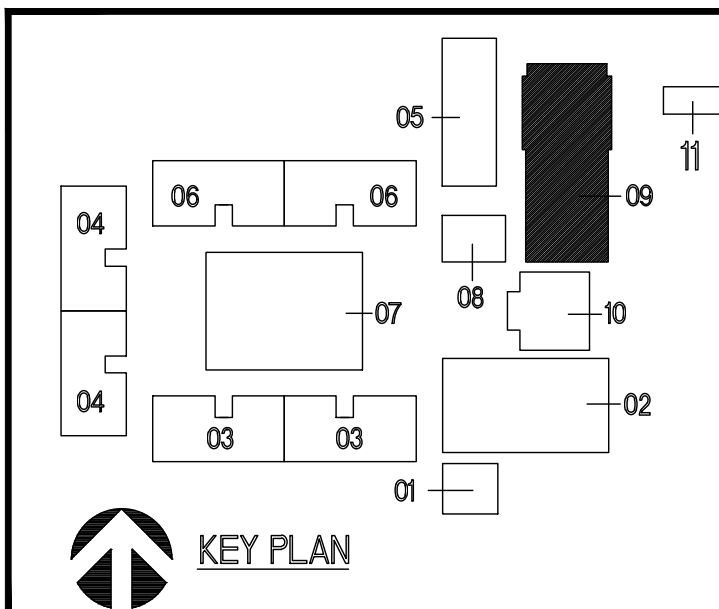
- ED109



① "FIRE ALARM PULL STATION INSIDE" SIGN

- 1) REFER TO SPECIFICATIONS.
- 2) REFER TO GENERAL NOTES.
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HERITAGE MIDDLE SCHOOL
REPLACE FIRE ALARM
VCS Project NO. 2448035
1001 PARNELL COURT
DELTONA, FL 32738

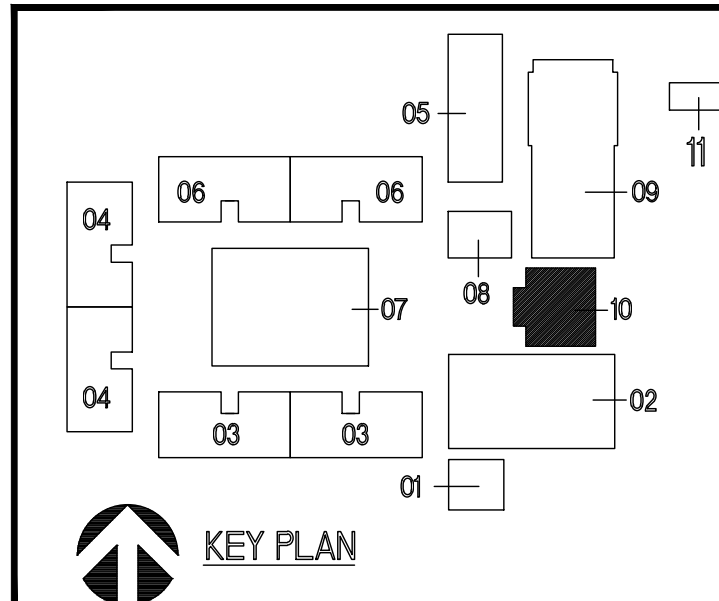
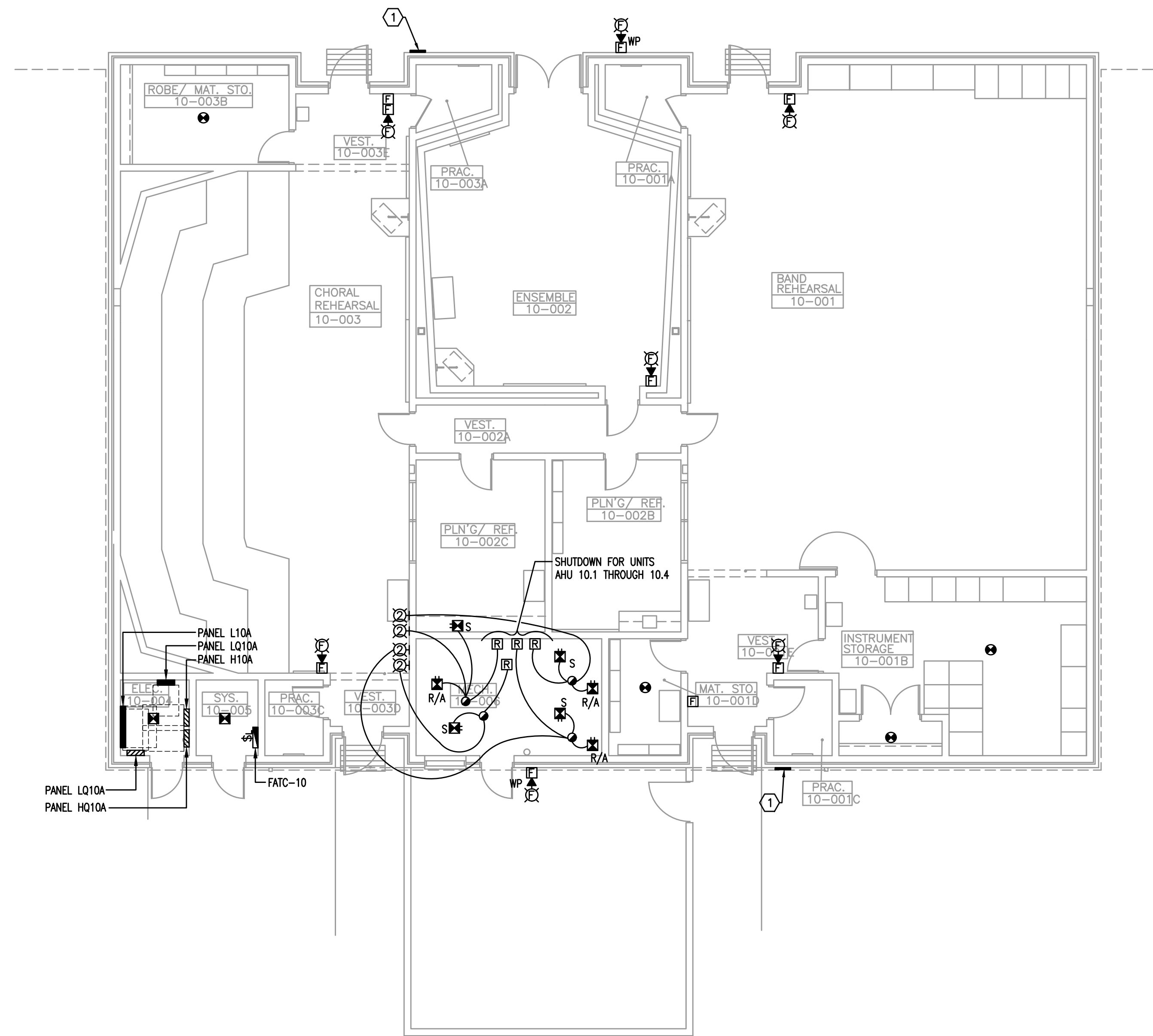
ED110

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MPE JOB # 2023-159



- 1) REFER TO SPECIFICATIONS.
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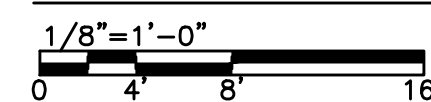
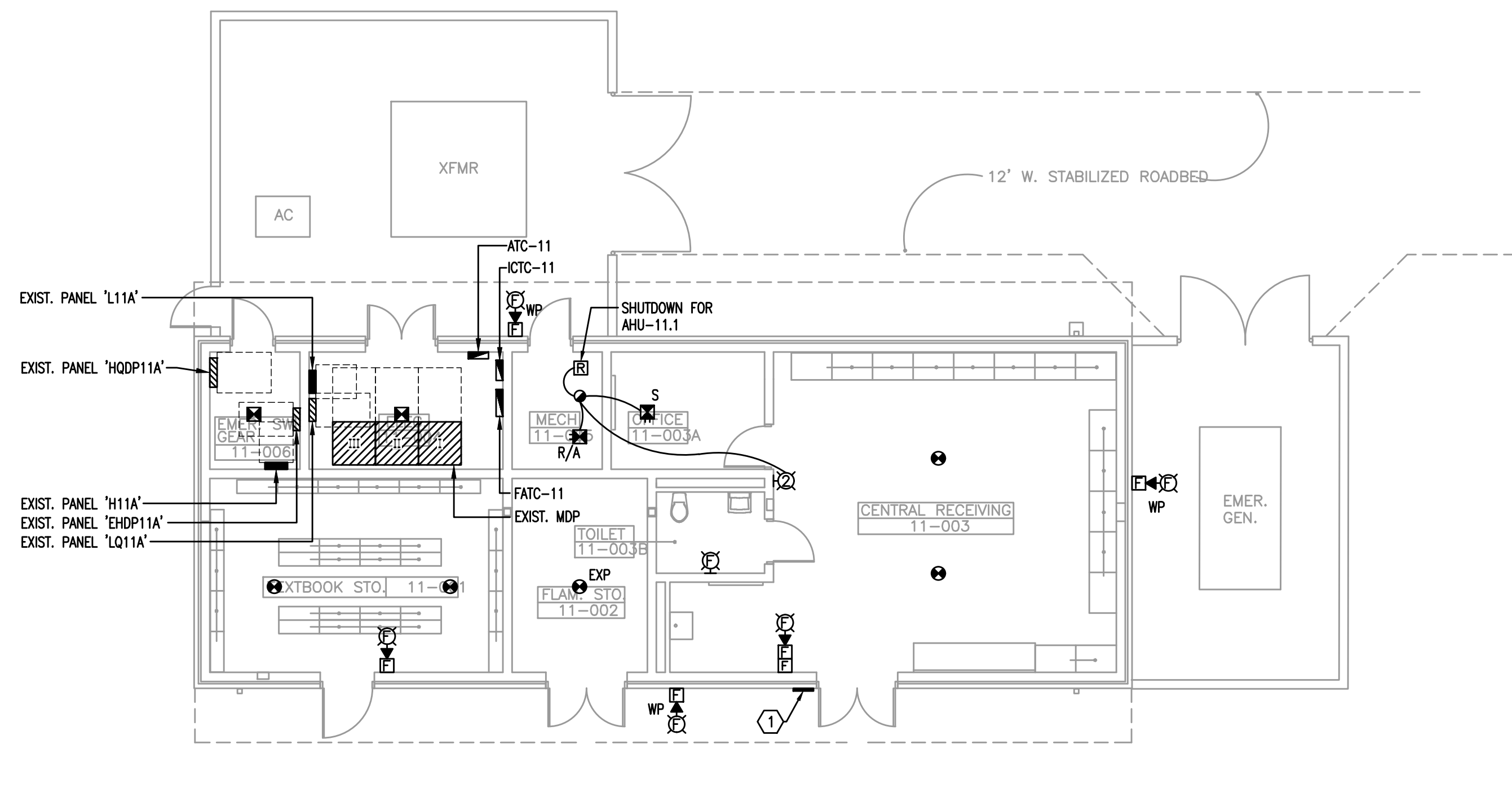
1 "FIRE ALARM PULL STATION INSIDE" SIGN.

DOCUMENT HISTORY		
NO	DATE	DESCRIPTION

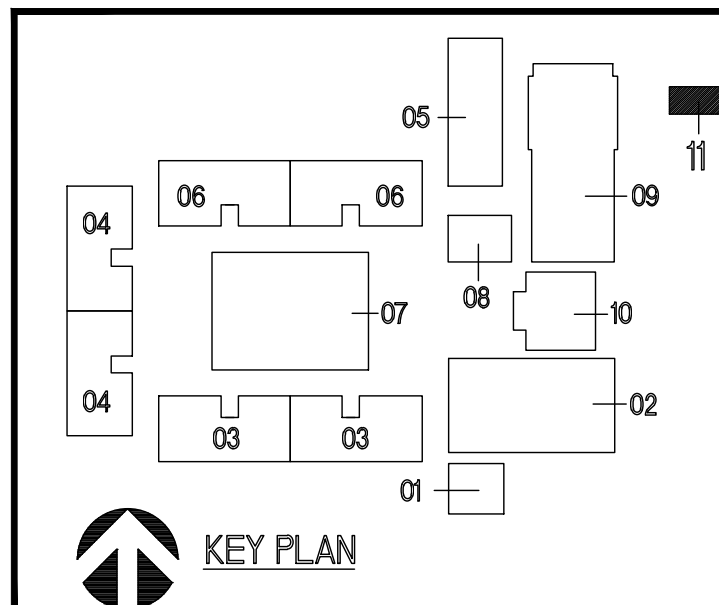
HERITAGE MIDDLE SCHOOL
REPLACE FIRE ALARM
VCS Project NO. 2448035
1001 PARNELL COURT
DELTONA, FL 32738

ED111

ARCH/ENGR OF REC'D



FIRE ALARM DEMOLITION PLAN BUILDING 11



GENERAL NOTES

- 2) REFER TO SPECIFICATIONS.
- 2) REFER TO GENERAL NOTES.
- 3) EXISTING CONDUIT ROUTING IS UNKNOWN.
- 4) WHERE CONDUIT ROUTING IS SHOWN, THE CONDUIT ROUTING IS SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
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- 12) FIRE ALARM STROBES WITHIN THE SAME ROOM SHALL FLASH IN SYNCHRONIZATION AS REQUIRED BY NFPA 72.

HEX NOTES

- 1 "FIRE ALARM PULL STATION INSIDE" SIGN.

[illegible]

HERITAGE MIDDLE SCHOOL
REPLACE FIRE ALARM
VCS Project NO. 2448035
1001 PARNELL COURT
DELTONA, FL 32738

Engineer Adrian W. Baus, P.E.		ARCHITECT OF RECORD
DESIGNED BY AWB	DRAWN BY MM/AWB	
ISSUE DATE 08/20/2025	AE PROJECT NUMBER MPE 2023-159	
SHEET TITLE FIRE ALARM DEMOLITION PLAN BUILDING 11		
DRAWING NO.		

DRAWING NO. **ED112**

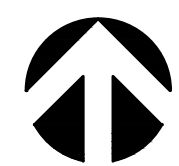
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CERT. OF AUTH. NO. 5096 FAX (407) 740-0385

MPE JOB # - 2023-159



FIRE ALARM RENOVATION SITE PLAN

1"=60'-0"

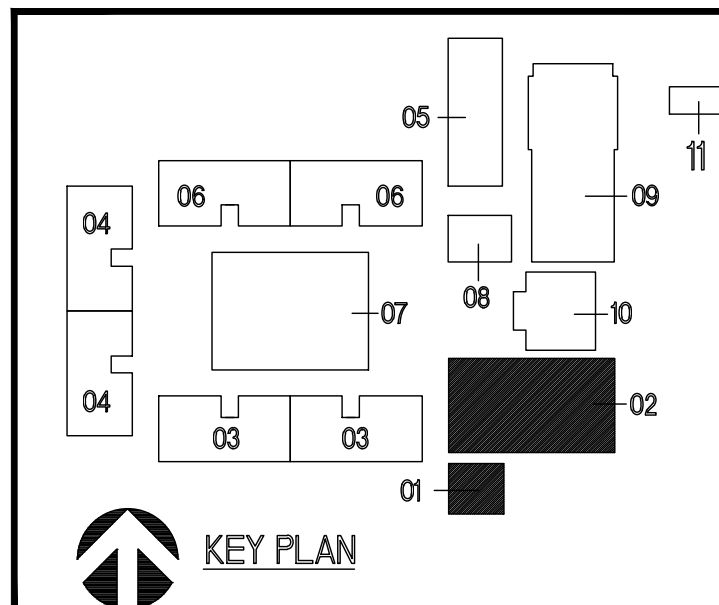
0 30' 60' 120'

GENERAL NOTES

- 1) REFER TO SPECIFICATIONS.
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- 4) WHERE CONDUIT ROUTING IS KNOWN, THE CONDUIT ROUTING IS SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
- 5) RELOCATE/REMOVE EXISTING AS REQUIRED TO FACILITATE PROJECT.
- 6) REPLACE EXISTING DUCT DETECTORS WITH NEW ADDRESSABLE DUCT DETECTORS.
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HEX NOTES

- 1 PROVIDE NEW FIBER OPTIC BACKBONE CABLES FOR FIRE ALARM SYSTEM IN EXISTING FIRE ALARM SITE DISTRIBUTION CONDUIT.



REVISIONS		
DOCUMENT HISTORY		
NO.	DATE	DESCRIPTION

HERITAGE MIDDLE SCHOOL
REPLACE FIRE ALARM
VCS Project NO. 2448035
1001 PARNELL COURT
DELTONA, FL 32738

Engineer
Adrian W. Baus, P.E.

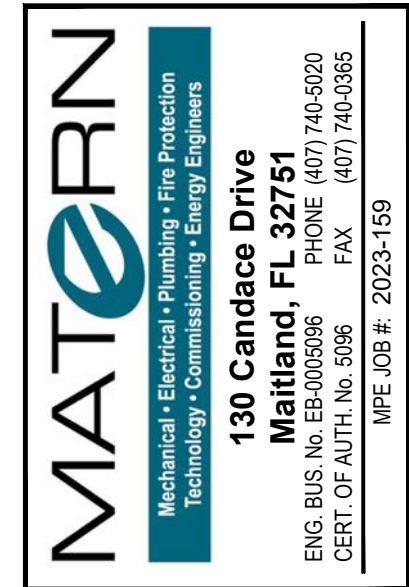
DESIGNED BY AWB	DRAWN BY MM/AWB
ISSUE DATE 08/20/2025	AE PROJECT NUMBER MPE 2023-159

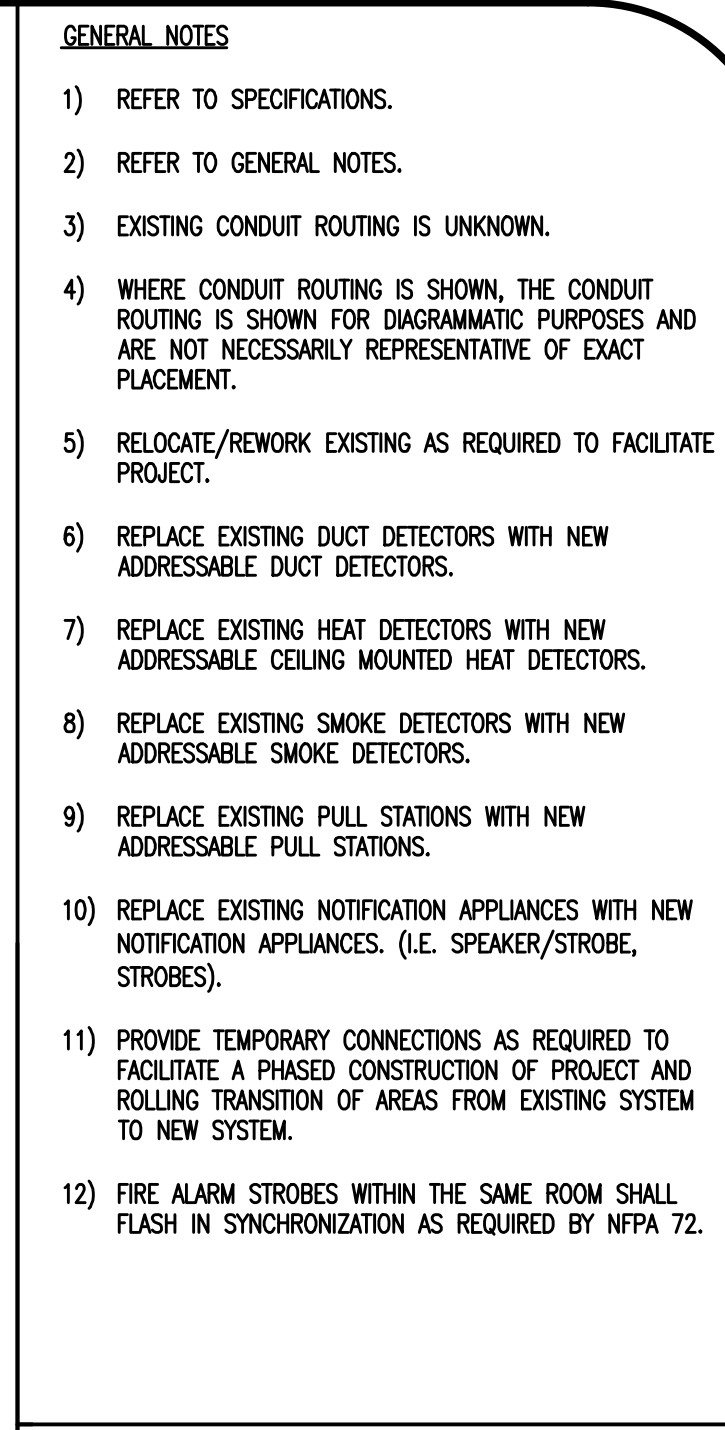
SHEET TITLE

FIRE ALARM
RENOVATION SITE PLAN

DRAWING NO.

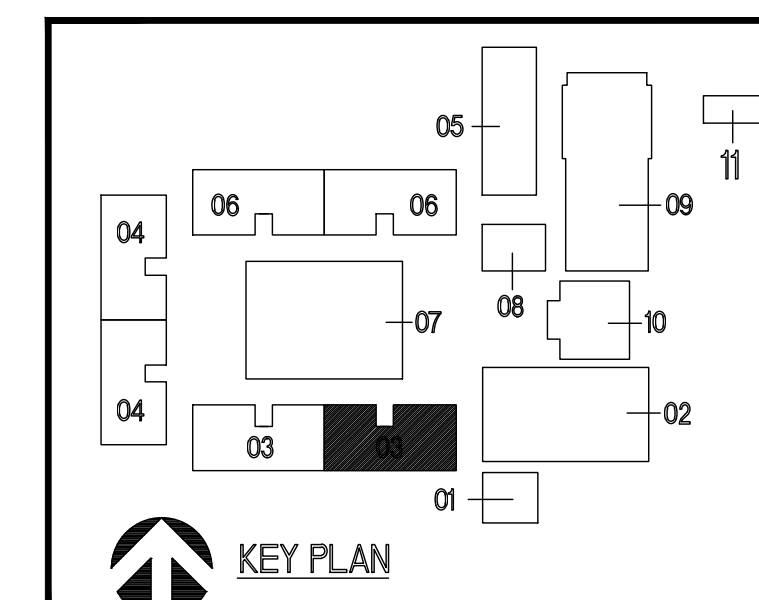
E011



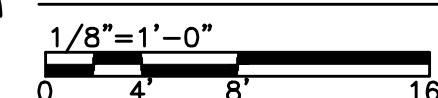


- [illegible]

ENGINEER drian W. Baus, P.E.		ARCHENGR OF RECORD	
DESIGNED BY WB	DRAWN BY MM/AWB		
DATE 3/20/2025	AS PROJECT NUMBER MPE 2023-159		
TITLE FIRE ALARM RENOVATION PLAN BUILDING 3 EAST WING			
DRAWING NO. E101			



FIRE ALARM RENOVATION PLAN BUILDING 3 EAST WING



GENERAL NOTES

- 1) REFER TO SPECIFICATIONS.
- 2) REFER TO GENERAL NOTES.
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- 4) WHERE CONDUIT ROUTING IS SHOWN, THE CONDUIT ROUTING IS SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
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- 6) REPLACE EXISTING DUCT DETECTORS WITH NEW ADDRESSABLE DUCT DETECTORS.
- 7) REPLACE EXISTING HEAT DETECTORS WITH NEW ADDRESSABLE CEILING MOUNTED HEAT DETECTORS.
- 8) REPLACE EXISTING SMOKE DETECTORS WITH NEW ADDRESSABLE SMOKE DETECTORS.
- 9) REPLACE EXISTING PULL STATIONS WITH NEW ADDRESSABLE PULL STATIONS.
- 10) REPLACE EXISTING NOTIFICATION APPLIANCES WITH NEW NOTIFICATION APPLIANCES. (I.E.: SPEAKER/STROBES, STROBES).
- 11) PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO FACILITATE A PHASED CONSTRUCTION OF PROJECT AND ROLLING TRANSITION OF AREAS FROM EXISTING SYSTEM TO NEW SYSTEM.
- 12) FIRE ALARM STROBES WITHIN THE SAME ROOM SHALL FLASH IN SYNCHRONIZATION AS REQUIRED BY NFPA 72.

HEX NOTES

- ① REPLACE EXISTING "FIRE ALARM PULL STATION INSIDE" SIGN IF EXISTING SIGN IS DAMAGED OR MISSING.

REVISIONS

DOCUMENT HISTORY

NO. DATE DESCRIPTION

HERITAGE MIDDLE SCHOOL REPLACE FIRE ALARM VCS Project NO. 2448035 1001 PARNELL COURT DELTONA, FL 32738

Engineer
Adrian W. Baus, P.E.

DESIGNED BY
AWB

DRAWN BY
MM/AWB

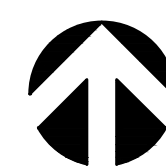
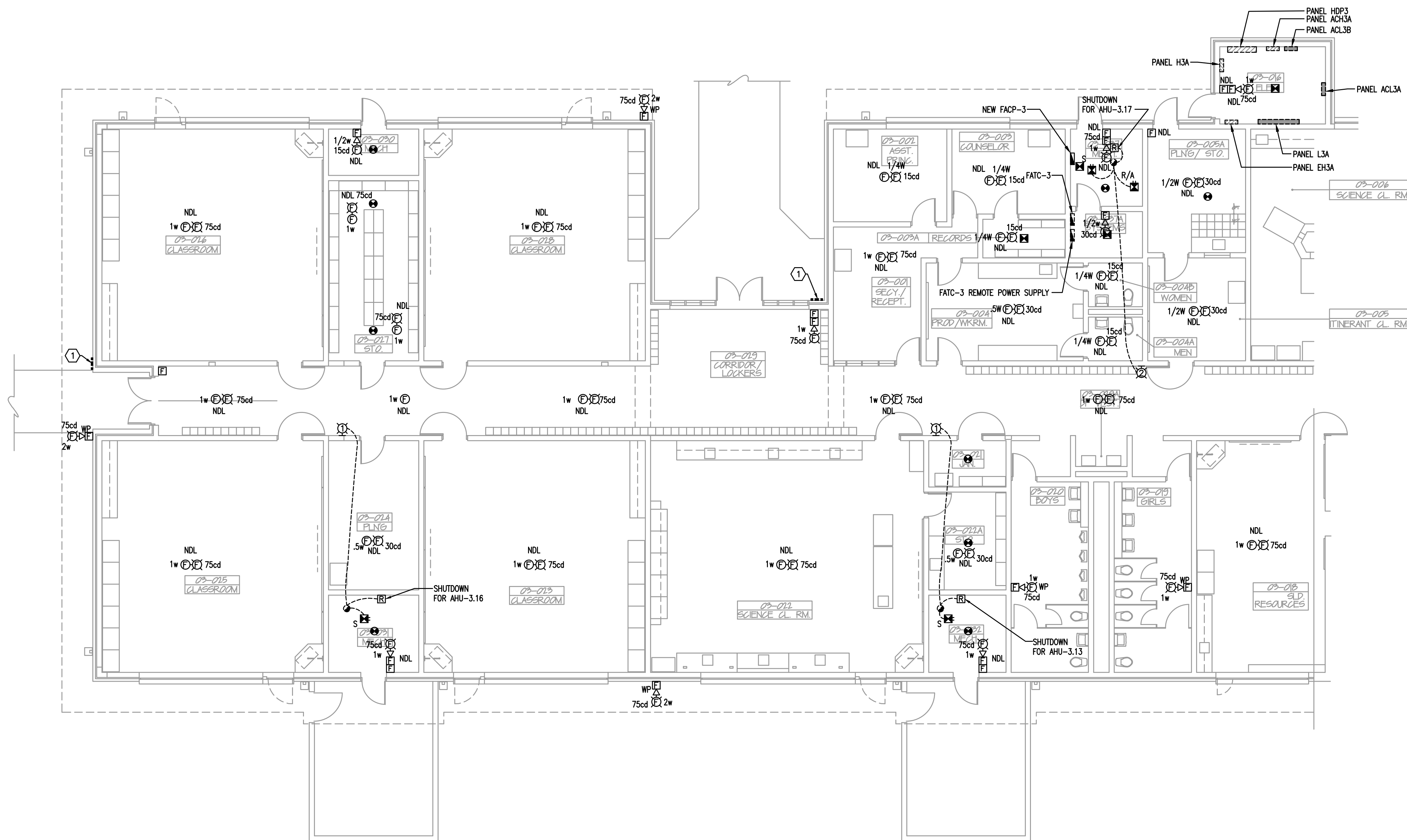
ISSUE DATE
08/20/2025

AE PROJECT NUMBER
MPE 2023-159

SHEET TITLE
FIRE ALARM
RENOVATION PLAN
BUILDING 3 WEST WING

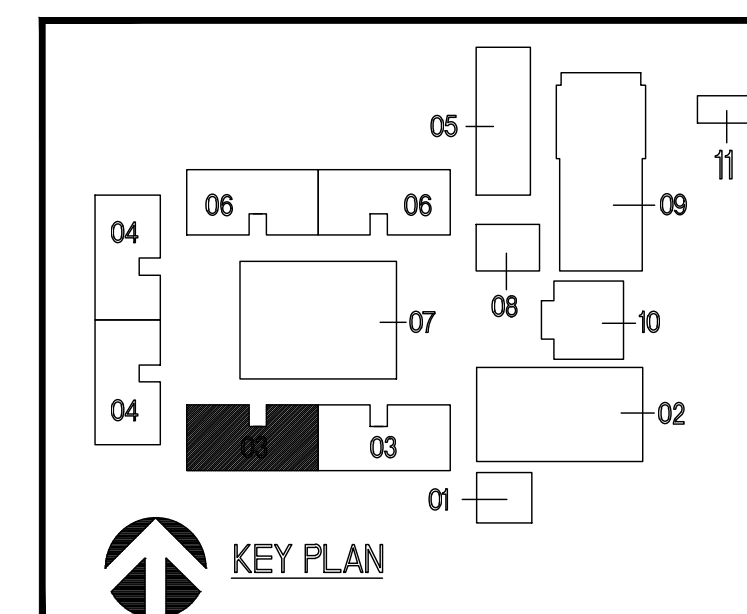
DRAWING NO.

E102

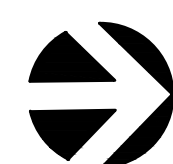


FIRE ALARM RENOVATION PLAN BUILDING 3 WEST WING

1/8"=1'-0"
0 4 8 16'



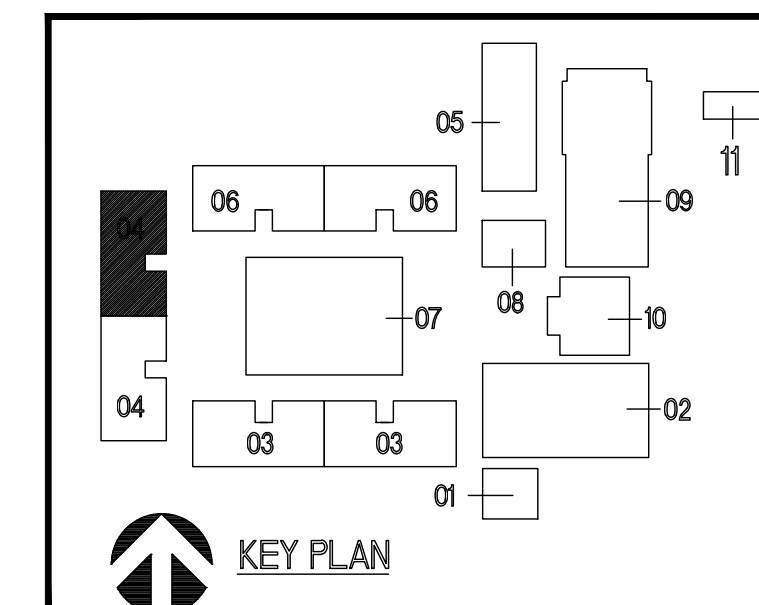
KEY PLAN

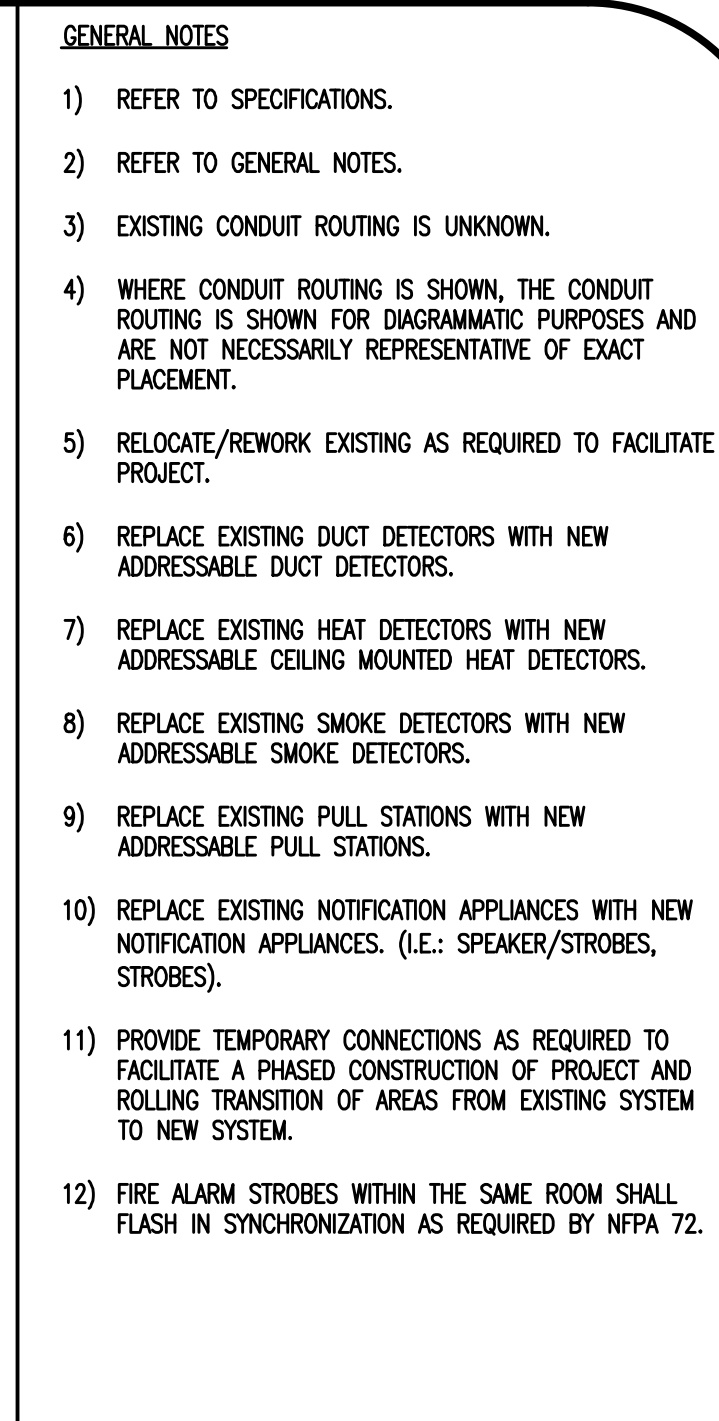


$1/8" = 1' - 0"$

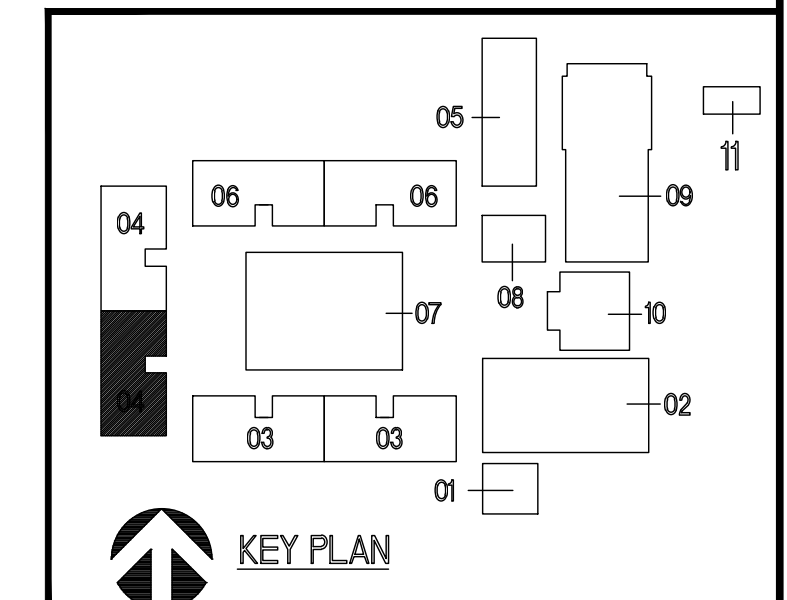
A horizontal graphic scale bar with alternating black and white segments. It is marked with the numbers 0, 4, 8, and 16, representing feet. The total length of the bar is 16 feet.

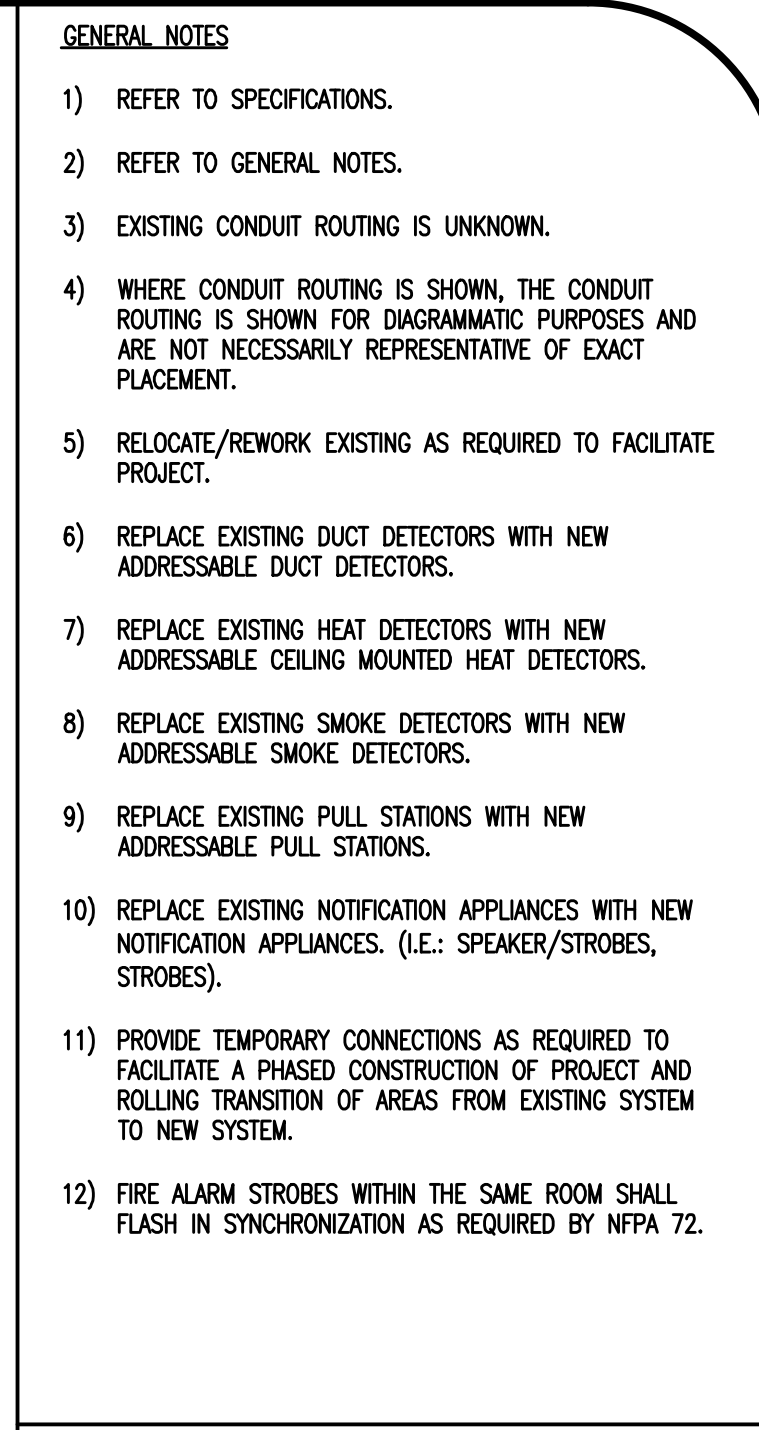
- E103



[illegible]

HERITAGE MIDDLE SCHOOL
REPLACE FIRE ALARM
VCS Project NO. 2448035
1001 PARNELL COURT
DELTONA, FL 32738

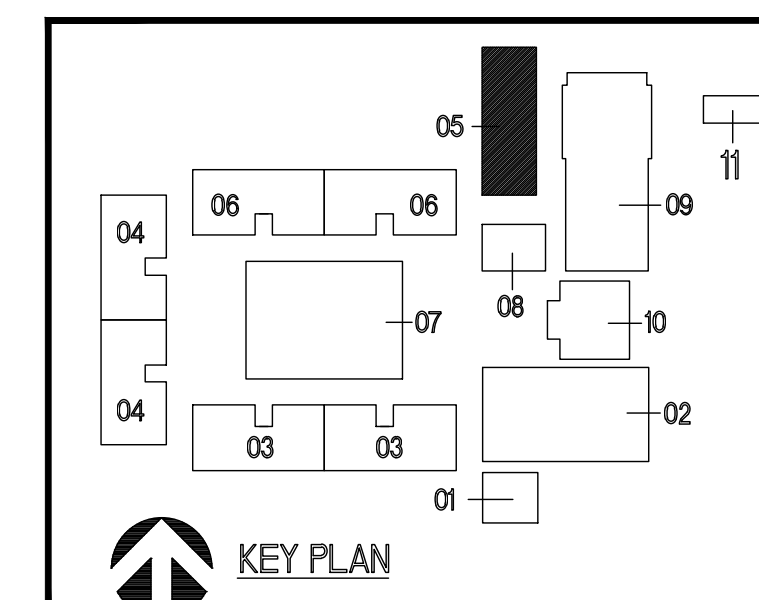


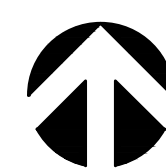


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HERITAGE MIDDLE SCHOOL
REPLACE FIRE ALARM
VCS Project NO. 2448035
1001 PARNELL COURT
DELTONA, FL 32738

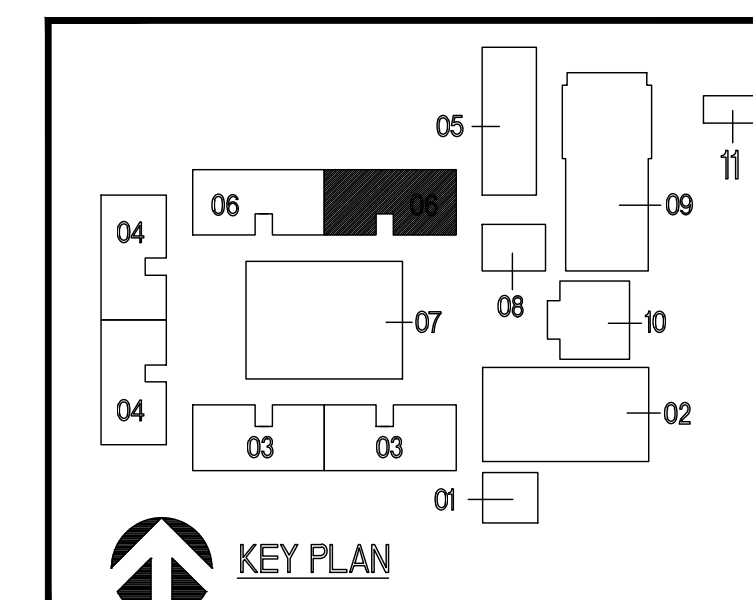
A key plan of the building layout. The plan shows a central corridor (07) connecting various rooms. Rooms are numbered 01 through 11. Room 05 is a large rectangular room at the top. Room 06 is a large rectangular room to the left of 05. Room 08 is a small square room below 05. Room 09 is a large rectangular room to the right of 05. Room 10 is a small rectangular room below 09. Room 02 is a large rectangular room at the bottom right. Room 03 is a small rectangular room at the bottom left. Room 04 is a small rectangular room on the far left. Room 01 is a small rectangular room at the bottom center. A north arrow is located at the top right of the plan.



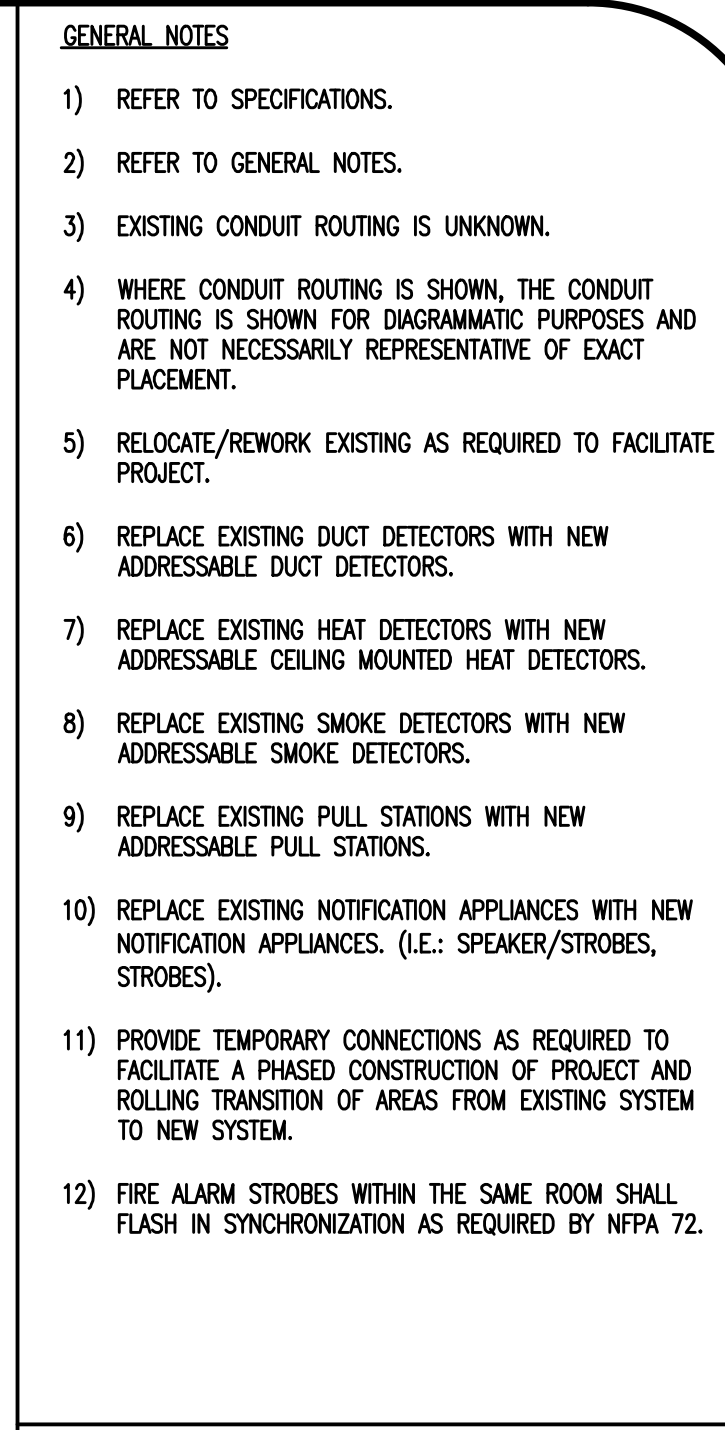


$1/8" = 1' - 0"$

- E106



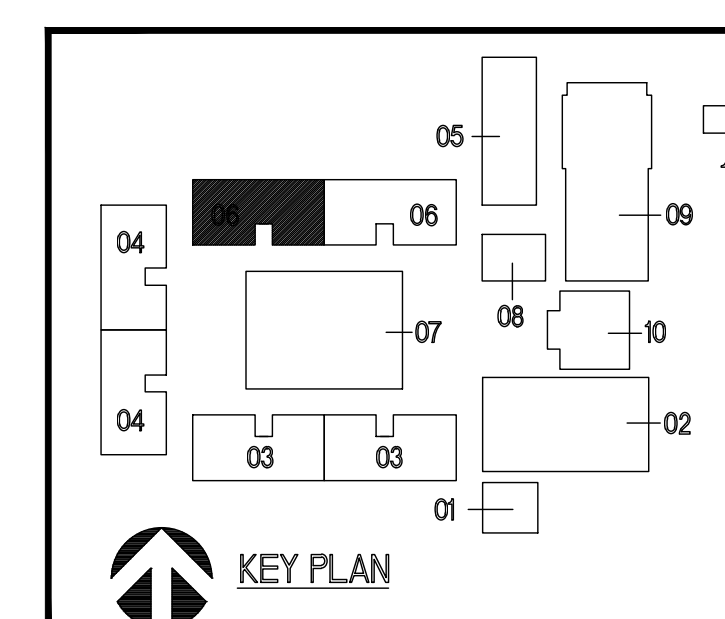
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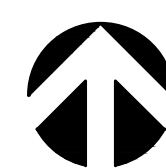
1 REPLACE EXISTING "FIRE ALARM PULL STATION INSIDE" SIGN IF EXISTING SIGN IS DAMAGED OR MISSING.

[illegible]

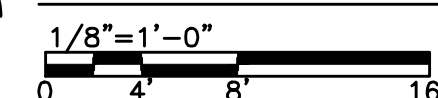
HERITAGE MIDDLE SCHOOL
REPLACE FIRE ALARM
VCS Project NO. 2448035
1001 PARNELL COURT
DELTONA, FL 32738

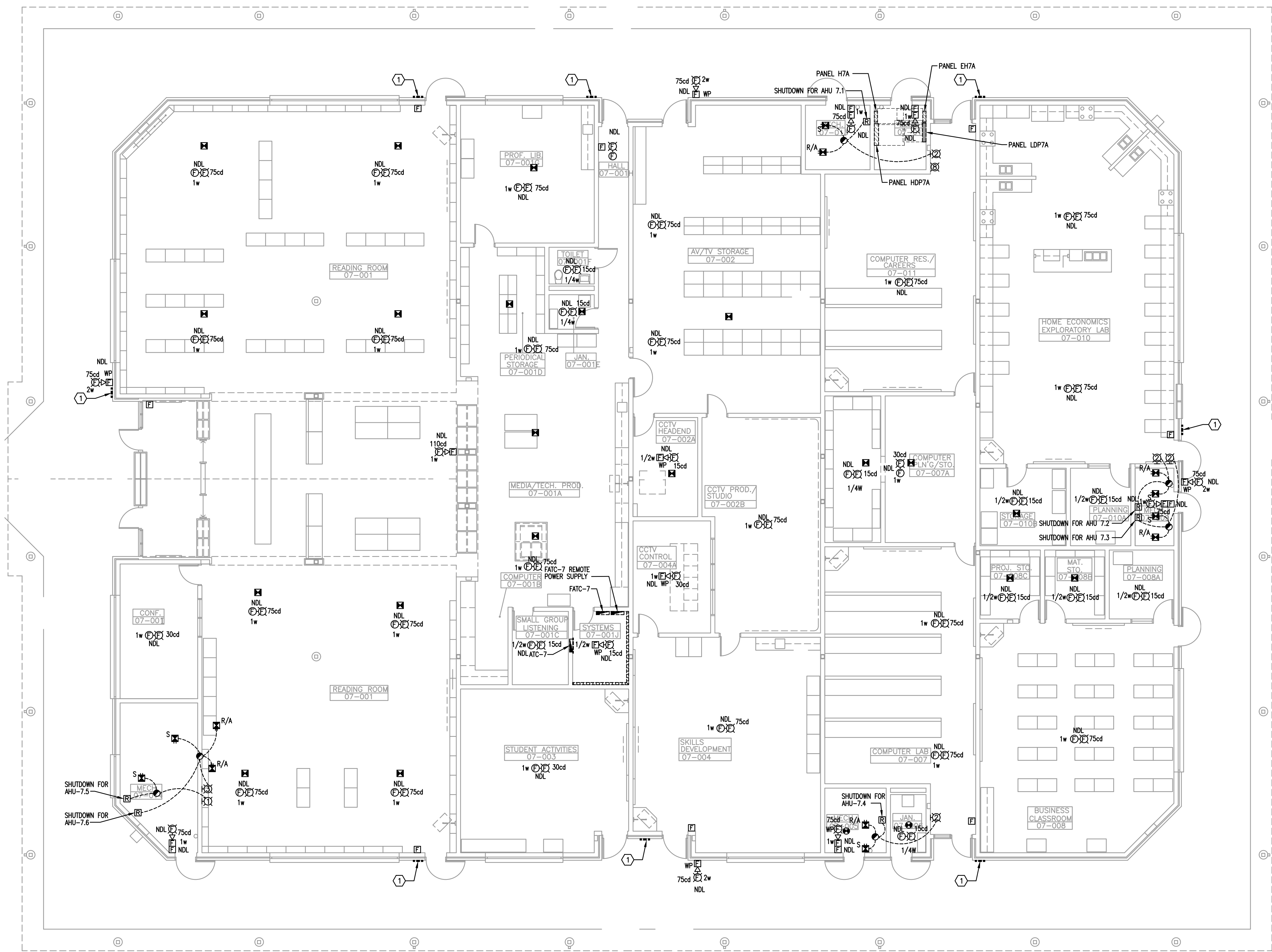


E107



FIRE ALARM RENOVATION PLAN BUILDING 6 WEST WING



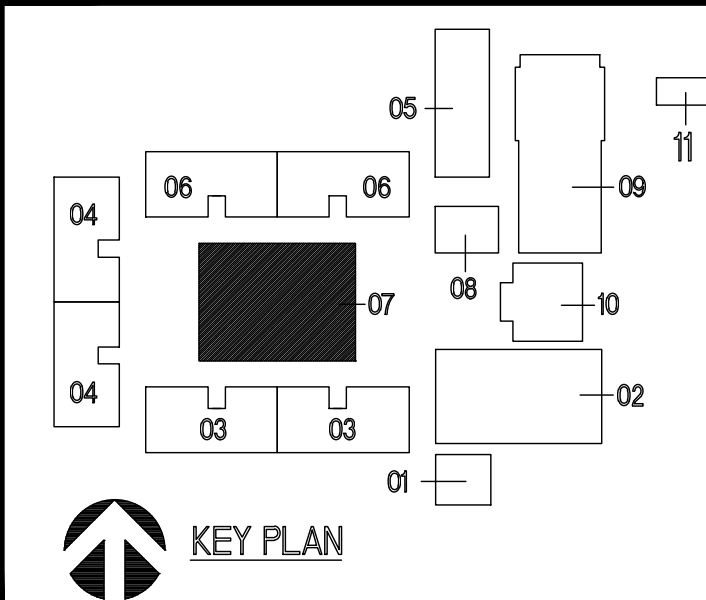


GENERAL NOTES

- 1) REFER TO SPECIFICATIONS.
- 2) REFER TO GENERAL NOTES.
- 3) EXISTING CONDUIT ROUTING IS UNKNOWN.
- 4) WHERE CONDUIT ROUTING IS SHOWN, THE CONDUIT ROUTING IS SHOWN FOR DIAGRAMMATIC PURPOSES AND ARE NOT NECESSARILY REPRESENTATIVE OF EXACT PLACEMENT.
- 5) RELOCATE/REWORK EXISTING AS REQUIRED TO FACILITATE PROJECT.
- 6) REPLACE EXISTING DUCT DETECTORS WITH NEW ADDRESSABLE DUCT DETECTORS.
- 7) REPLACE EXISTING HEAT DETECTORS WITH NEW ADDRESSABLE CEILING MOUNTED HEAT DETECTORS.
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- 11) PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO FACILITATE A PHASED CONSTRUCTION OF PROJECT AND ROLLING TRANSITION OF AREAS FROM EXISTING SYSTEM TO NEW SYSTEM.
- 12) FIRE ALARM STROBES WITHIN THE SAME ROOM SHALL FLASH IN SYNCHRONIZATION AS REQUIRED BY NFPA 72.

HEX NOTES

- 1) REPLACE EXISTING "FIRE ALARM PULL STATION INSIDE" SIGN IF EXISTING SIGN IS DAMAGED OR MISSING.



MATERN
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Technology • Commissioning • Energy Engineer
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MPE JOB # 2023-159

REVISIONS

DOCUMENT HISTORY

NO. DATE DESCRIPTION

HERITAGE MIDDLE SCHOOL

REPLACE FIRE ALARM

VCS Project NO. 2448035

1001 PARNELL COURT
DELTONA, FL 32738

Engineer
Adrian W. Baus, P.E.

DESIGNED BY
AWB

DRAWN BY
MM/AWB

ISSUE DATE
08/20/2025

AE PROJECT NUMBER
MPE 2023-159

SHEET TITLE
FIRE ALARM
RENOVATION PLAN
BUILDING 7

DRAWING NO.

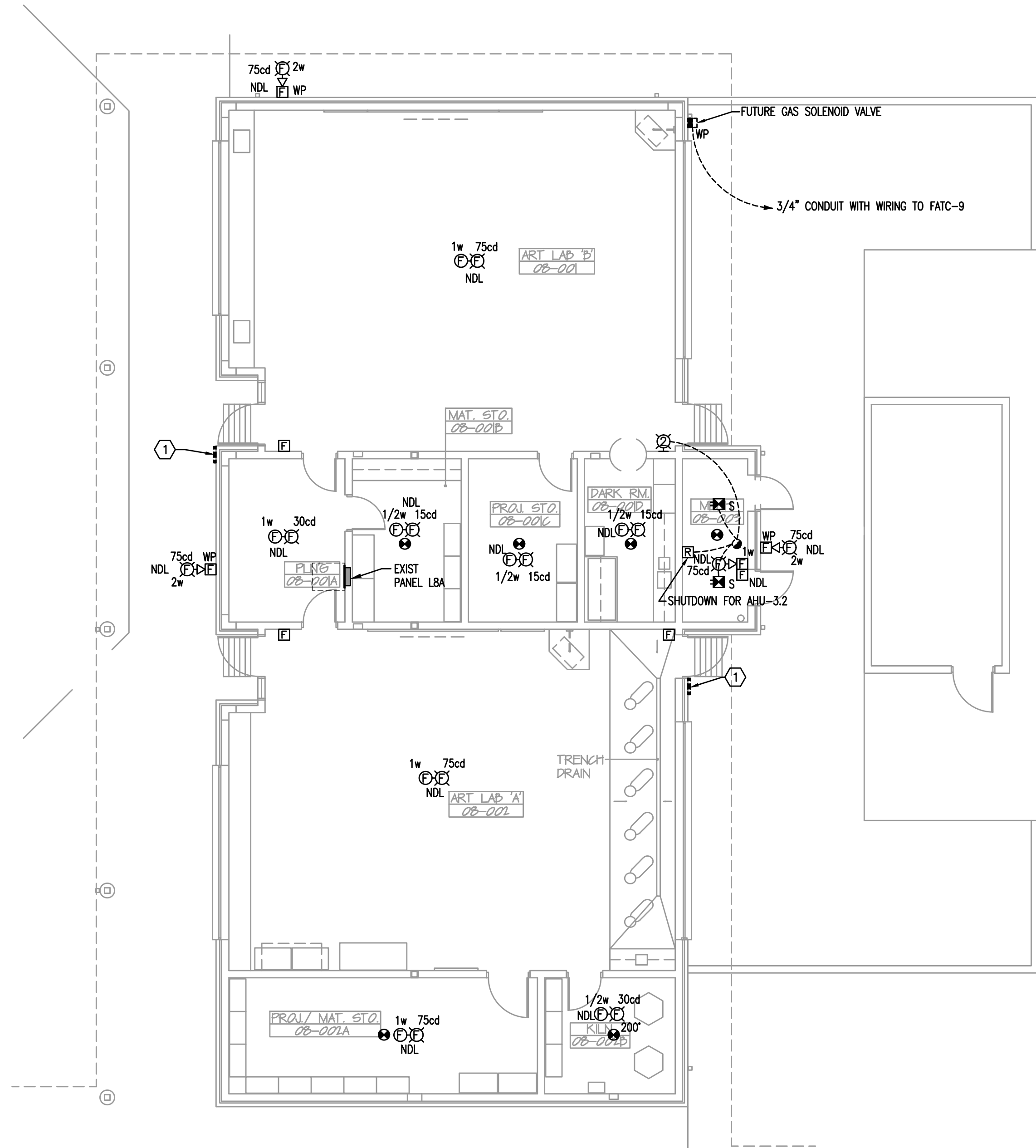
E108



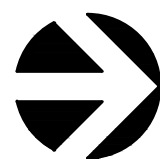
FIRE ALARM RENOVATION PLAN BUILDING 7

1/8" = 1'-0"

0 4 8 16



NOTE: FIRE ALARM DEVICES IN BUILDING 8
SHALL BE CONNECTED TO EQUIPMENT IN
BUILDING 9.



FIRE ALARM RENOVATION PLAN BUILDING 8

1/8"=1'-0"
0 4 8 16'

GENERAL NOTES

- 1) REFER TO SPECIFICATIONS.
- 2) REFER TO GENERAL NOTES.
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HEX NOTES

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Technology • Commissioning • Energy Engineering

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CERT. OF AUTH. No. 5596 FAX (407) 740-0366
MPE JOB # 2023-159

REVISIONS

DOCUMENT HISTORY
NO. DATE DESCRIPTION

HERITAGE MIDDLE SCHOOL
REPLACE FIRE ALARM
VCS Project NO. 2448035
1001 PARNELL COURT
DELTONA, FL 32738

Engineer
Adrian W. Baus, P.E.

DESIGNED BY
AWB

DRAWN BY
MM/AWB

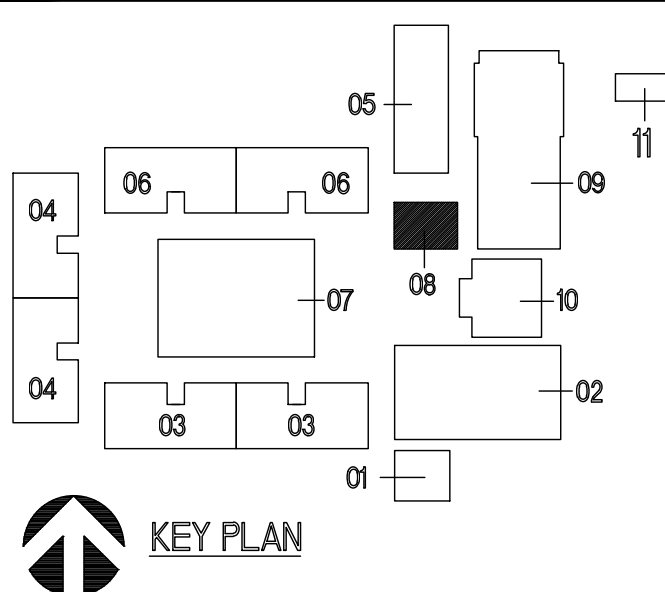
ISSUE DATE
08/20/2025

AE PROJECT NUMBER
MPE 2023-159

SHEET TITLE
**FIRE ALARM
RENOVATION PLAN
BUILDING 8**

DRAWING NO.

E109



HEX NOTES

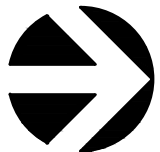
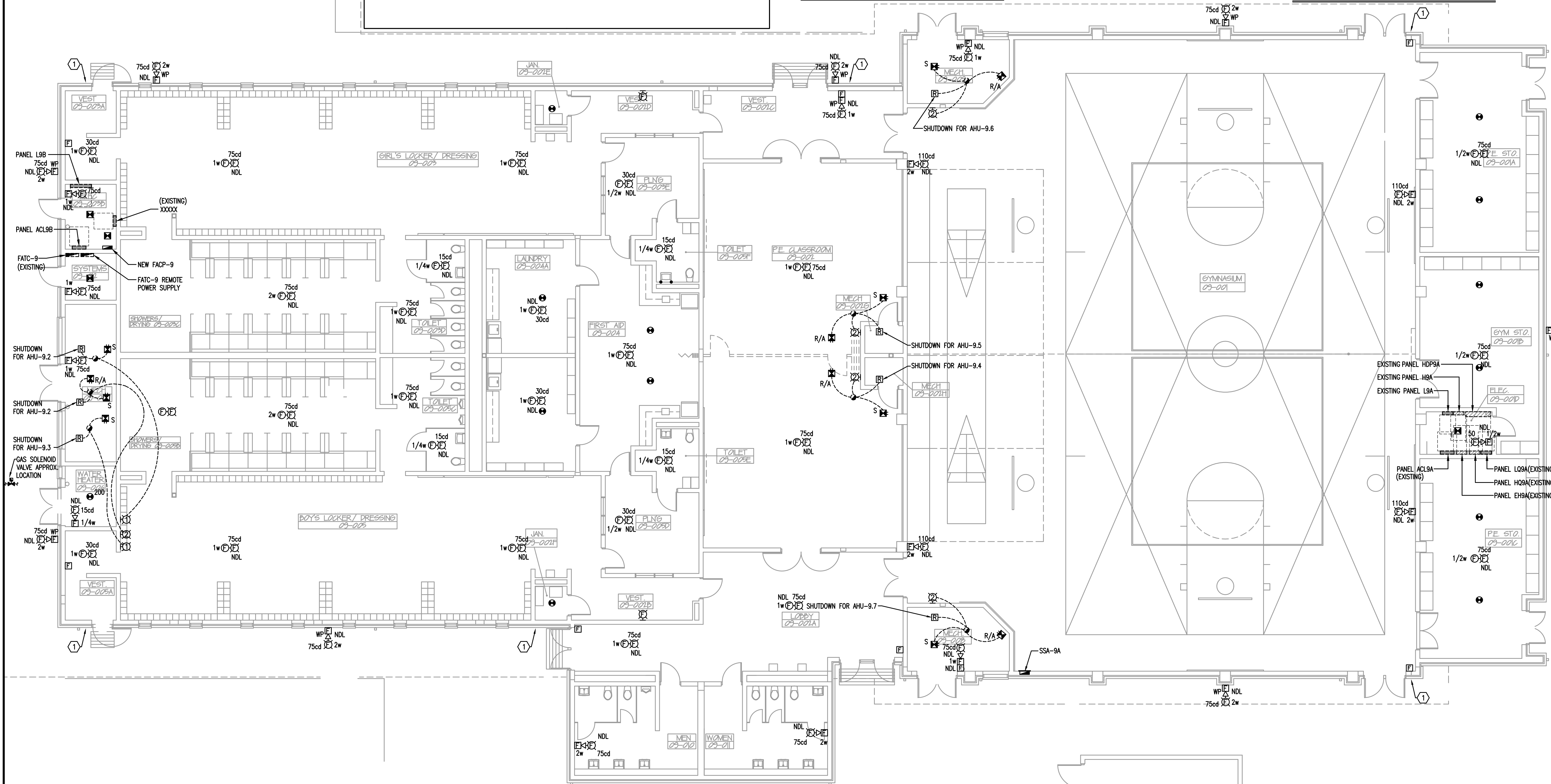
- 1) REPLACE EXISTING "FIRE ALARM PULL STATION INSIDE" SIGN IF EXISTING SIGN IS DAMAGED OR MISSING.

GENERAL NOTES

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- 6) REPLACE EXISTING DUCT DETECTORS WITH NEW ADDRESSABLE DUCT DETECTORS.

GENERAL NOTES CONTINUED

- 7) REPLACE EXISTING HEAT DETECTORS WITH NEW ADDRESSABLE CEILING MOUNTED HEAT DETECTORS.
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FIRE ALARM RENOVATION PLAN BUILDING 9

1/8"=1'-0"
0 4 8 16



KEY PLAN

MATERN
Mechanical • Electrical • Plumbing • Fire Protection
Technology • Commissioning • Energy Engineering

130 Candace Drive
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CERT. OF AUTH. No. 5596 FAX (407) 740-0366
MPE JOB # 2023-159

REVISIONS

DOCUMENT HISTORY

NO. DATE DESCRIPTION

HERITAGE MIDDLE SCHOOL

REPLACE FIRE ALARM

VCS Project NO. 2448035

1001 PARNELL COURT
DELTONA, FL 32738

Engineer
Adrian W. Baus, P.E.

DESIGNED BY
AWB

DRAWN BY
MM/AWB

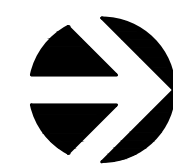
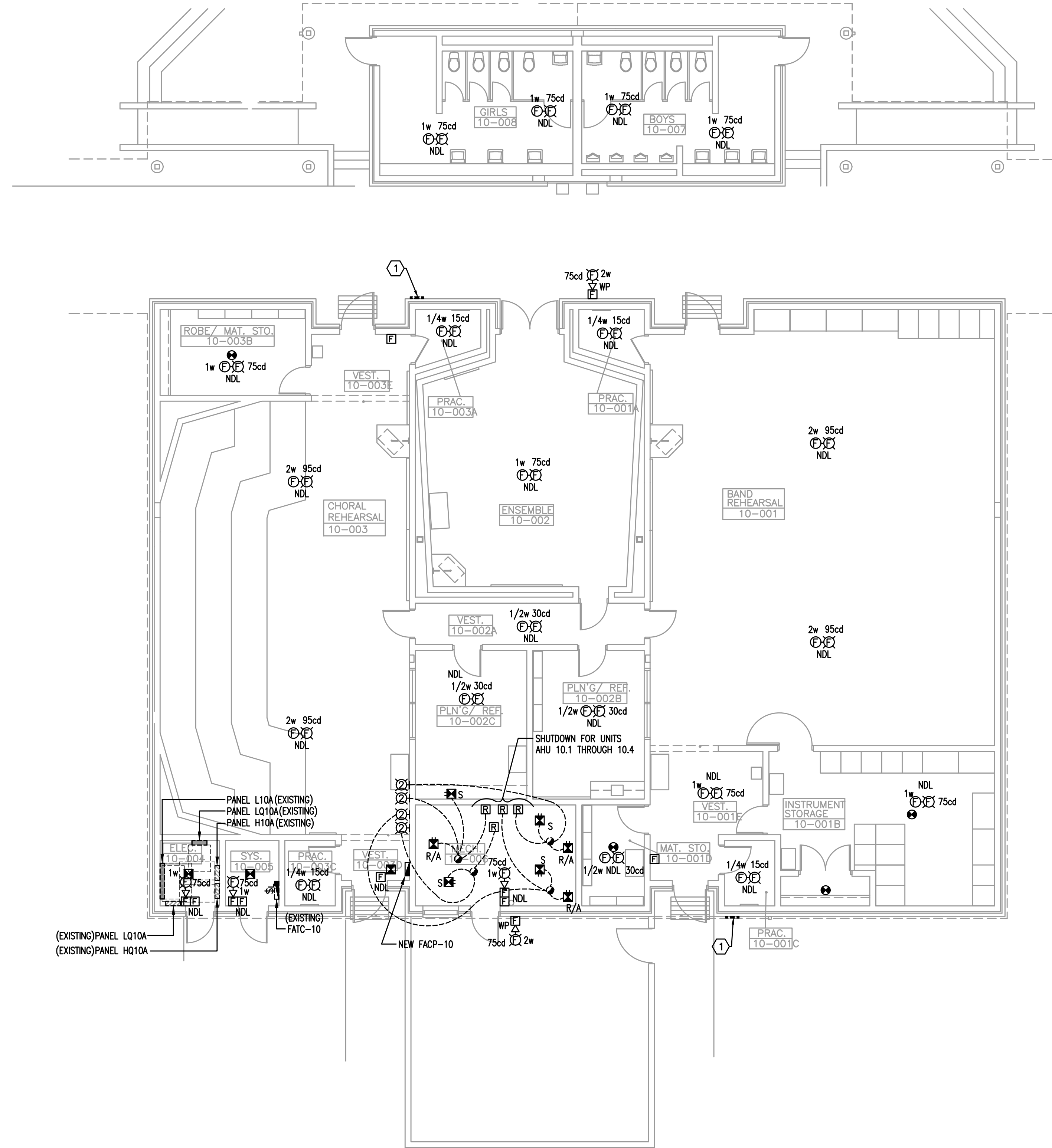
ISSUE DATE
08/20/2025

AE PROJECT NUMBER
MPE 2023-159

SHEET TITLE
FIRE ALARM
RENOVATION PLAN
BUILDING 9

DRAWING NO.

E110



FIRE ALARM RENOVATION PLAN BUILDING 10

1/8"=1'-0"
0 4 8 16'

GENERAL NOTES

- 1) REFER TO SPECIFICATIONS.
- 2) REFER TO GENERAL NOTES.
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HEX NOTES

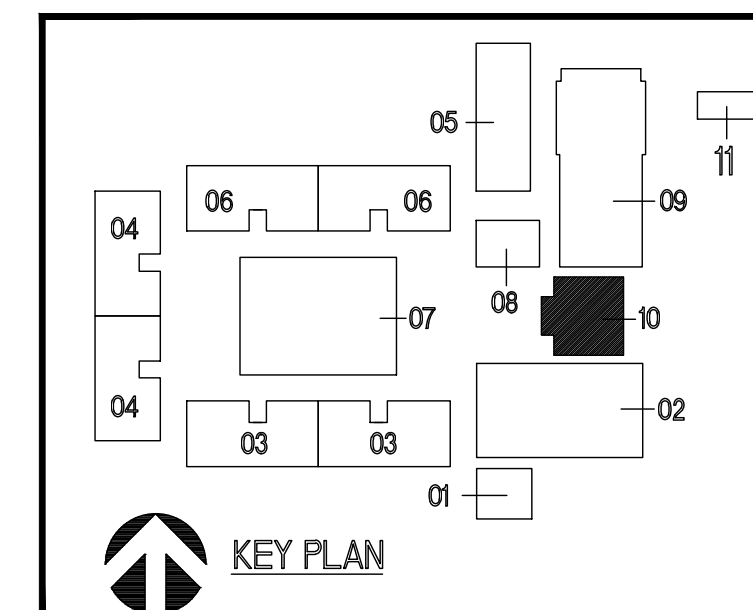
- ① REPLACE EXISTING "FIRE ALARM PULL STATION INSIDE" SIGN IF EXISTING SIGN IS DAMAGED OR MISSING.

REVISIONS

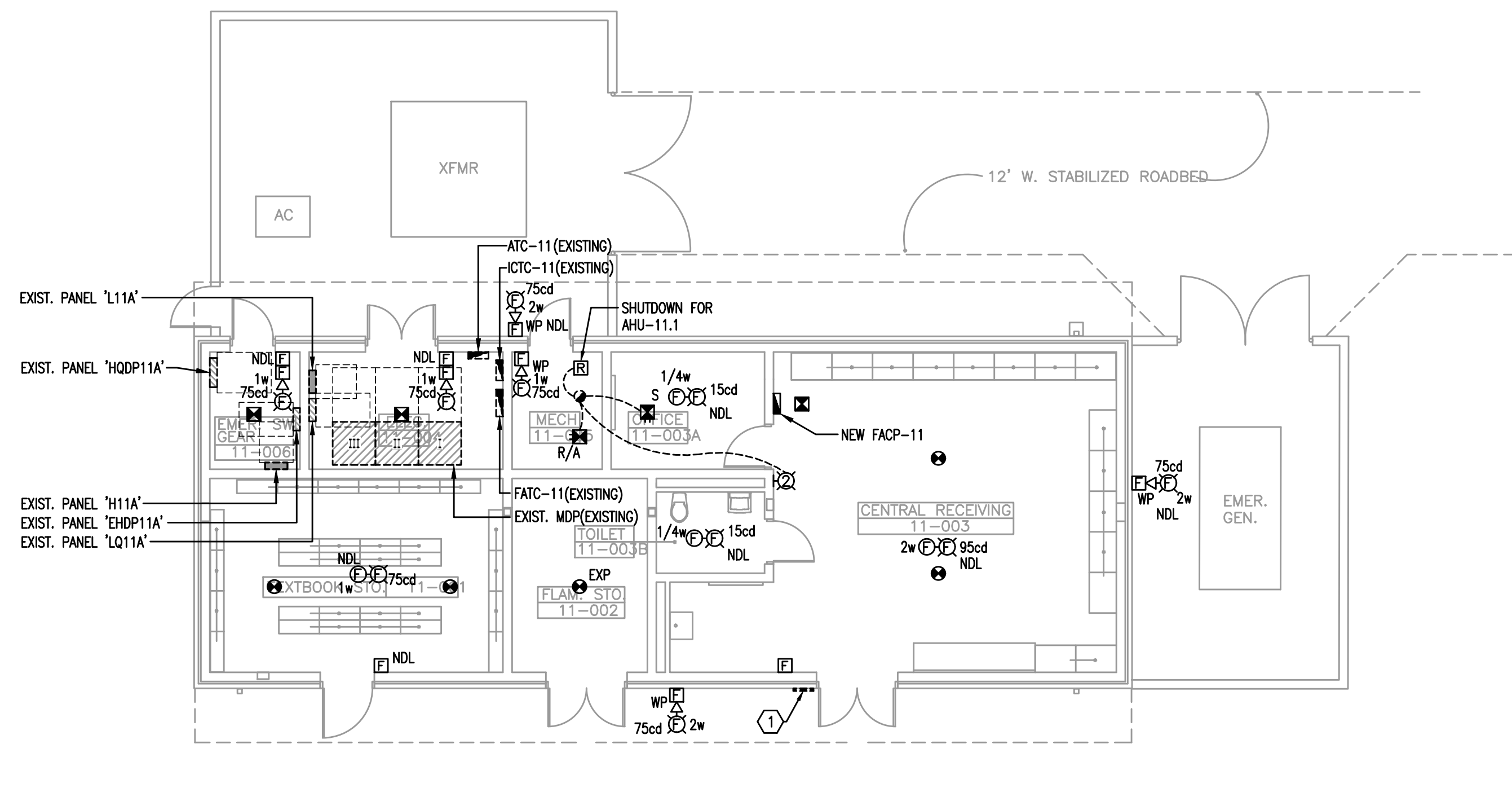
DOCUMENT HISTORY

NO. DATE DESCRIPTION

HERITAGE MIDDLE SCHOOL REPLACE FIRE ALARM VCS Project NO. 2448035 1001 PARNELL COURT DELTONA, FL 32738



Engineer Adrian W. Baus, P.E.	
DESIGNED BY AWB	DRAWN BY MM/AWB
ISSUE DATE 08/20/2025	AE PROJECT NUMBER MPE 2023-159
SHEET TITLE FIRE ALARM RENOVATION PLAN BUILDING 10	
DRAWING NO. E111	



FIRE ALARM

1/8"=1'-0"

0 4' 8' 16'

FIRE ALARM RENOVATION PLAN BUILDING 11

GENERAL NOTES

- 1) REFER TO SPECIFICATIONS.
- 2) REFER TO GENERAL NOTES.
- 3) EXISTING CONDUIT ROUTING IS UNKNOWN.
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HEX NOTES

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[illegible]

HERITAGE MIDDLE SCHOOL
REPLACE FIRE ALARM
VCS Project NO. 2448035
1001 PARNELL COURT
DELTONA, FL 32738

Engineer
Adrian W. Baus, P.E.

DESIGNED BY AWB	DRAWN BY MM/AWB
---------------------------	---------------------------

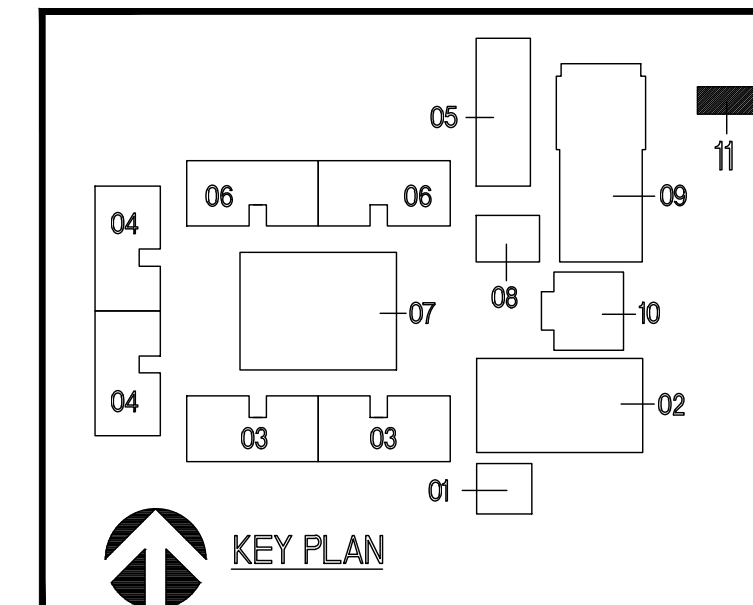
ISSUE DATE	AE PROJECT NUMBER
08/20/2025	MPE 2023-159

SHEET TITLE

FIRE ALARM
RENOVATION PLAN
BUILDING 11

DRAWING NO.

E112



F RATING--3 HR
T RATING--0 HR



N.T.S.	UL SYSTEM #202	(1 OR 2 HOUR RATING)
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Pipe Conduit or Tubing Type	Max Nom Pipe Conduit or Tubing Diam In.	F Rating Hr	Max Annular Space In.
2-1/2	1/2-12	3	3/4
2-1/2	1/2-12	3	3/4
4-1/2	1/2-6	3	1-1/2
4-1/2	1/2-12	3	3/4
4-1/2	1/2-20	2	7/8

3. Fill/Void or Cavity Materials* - Putty - Moldable putty material kneaded by hand and applied to fill annular space to a min depth of 1 in., flush with top surface of floor. In wall assemblies, required putty thickness to be installed symmetrically on both sides of wall.

MINNESOTA MINING & MFG CO - MPS-2+

*Bearing the UL Classification Marking

System No.W-L-1003
September 03, 2004
(Formerly System No. 147)
F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr



N.T.S. UL SYSTEM #147A (1 OR 2 HOUR RATING)

NOTES FOR FIRE STOPPING DETAILS (NEC & UL)

- 1) FIRE STOPPING DETAILS ARE SHOWN FOR GENERAL INTENT. PROVIDE FIRE STOPPING ASSEMBLY SUITABLE FOR THE APPLICATION IN COMPLIANCE WITH FLORIDA BUILDING CODE AND U.L.
- 2) DETAILS ARE BASED ON 3M PRODUCTS AND THEIR RECOMMENDED USAGE/ DETAILS. SUBSTITUTED PRODUCTS SHALL BE SUBMITTED AS OUTLINED IN SPECIFICATIONS. U.L. FIRE STOPPING ASSEMBLY DETAILS SHALL BE INCLUDED WITH PRODUCT DATA FOR REVIEW PRIOR TO INSTALLATION.

MATERN

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MPE JOB # - 2023-1659

REVISIONS

[illegible]

HERITAGE MIDDLE SCHOOL
REPLACE FIRE ALARM
VCS Project NO. 2448035
1001 PARNELL COURT
DELTONA, FL 32738

Engineer
Adrian W. Baus, P.E.

DESIGNED BY AWB	DRAWN BY MM/AWB
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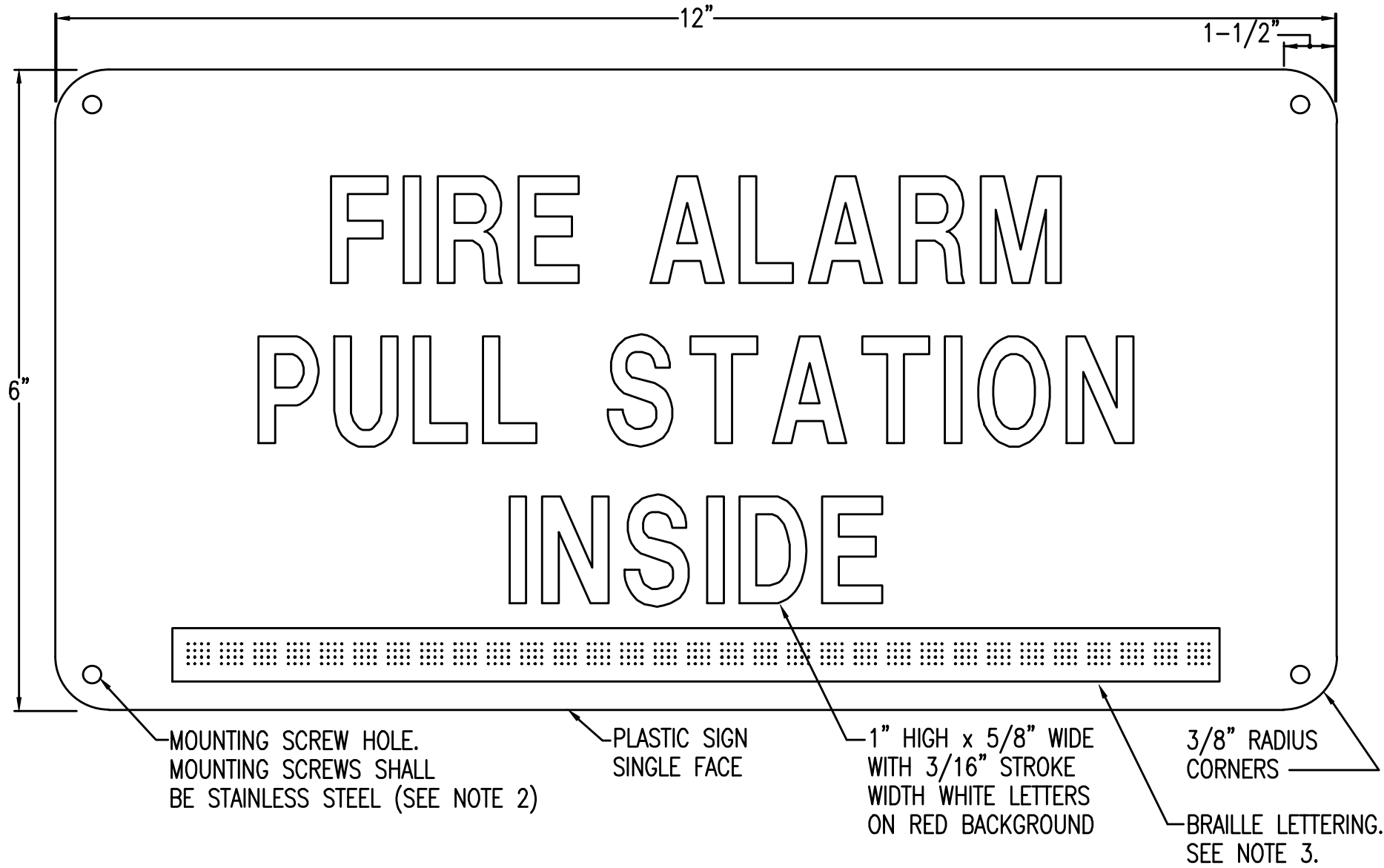
ISSUE DATE	AE PROJECT NUMBER
08/20/2025	MPE 2023-159

SHEET TITLE

DETAILS

DRAWING NO.

E501



N.T.S.

Engineer Adrian W. Baus, P.E.	
DESIGNED BY AWB	DRAWN BY MM/AWB
ISSUE DATE 08/20/2025	AE PROJECT NUMBER MPE 2023-159
SHEET TITLE DETAILS	
DRAWING NO. E502	

INTRUSION DETECTION SYSTEM

INSTALLER:

- THE INSTALLER MUST BE PRE-APPROVED BY ENGINEER 10 DAYS BEFORE BID. THE INTRUSION DETECTION SYSTEM INSTALLER SHALL BE AN AUTHORIZED DEALER OF THE EQUIPMENT MANUFACTURER. INSTALLER SHALL CARRY SPARE PARTS AND A SERVICE ORGANIZATION TO PROVIDE EMERGENCY SERVICE. SERVICE AND INSTALLATION MODIFICATION CAPABILITY SHALL BE AVAILABLE LOCALLY. INSTALLER SHALL BE SIGNATURE SYSTEMS. NO OTHER INSTALLER IS ACCEPTABLE UNLESS SPECIFIC APPROVAL OF ALTERNATE INSTALLER GRANTED BY ENGINEER PRIOR TO BID VIA ADDENDUM. REQUESTS FOR INSTALLER APPROVALS SHALL BE SUBMITTED 14 DAYS BEFORE BID.

SITE INVESTIGATION PRIOR TO START OF WORK:

- TEST EACH AND EVERY DETECTOR THROUGHOUT CAMPUS. CONFIRM ZONING OF EACH DEVICE AND PROVIDE DRAWING SHOWING EACH DEVICE AND ITS ZONE ASSIGNMENT. DETERMINE LOCATIONS OF EXISTING EOLS AND NOTE ON DRAWING.
- CHECK MAIN EQUIPMENT CABINETS AND CONFIRM REPORTING OF EACH ZONE AT CMC.
- INTERFACE OF EXISTING NOTIFIER INTRUSION ZONES
- INTERFACE EXISTING NOTIFIER ZONE DEVICES WITH NEW SYSTEM.
- PROVIDE DRAWING SHOWING EXISTING DEVICES/ZONING AND LOCATIONS OF EOLS.

CMC PROGRAMMING:

- UPDATE PROGRAMMING OF DMP RECEIVER AT CMC FOR NEW EQUIPMENT. DEVICE IDS SHALL BE ACCEPTABLE OWNER AND SHALL BE ADJUSTED IF REQUESTED BY OWNER.
- UPDATE MICROKEY SOFTWARE TO REFLECT NEW DEVICES.
- UPDATE PROGRAMMING OF OPEN OPTIONS PLATFORM AT CMC FOR NEW EQUIPMENT.

TESTING:

- TEST 100 % OF THE INTRUSION DEVICES ON CAMPUS AND CONFIRM PROPER OPERATION AND REPORTING AT CMC.
- TEST 100 % OF THE FIRE ALARM DEVICES ON CAMPUS AND CONFIRM PROPER OPERATION AND REPORTING AT CMC.

DEMONSTRATION:

- DEMONSTRATE REPORTING OF FIRE ALARM AND INTRUSION DEVICES AT CMC TO THE SATISFACTION OF THE VOLUSIA COUNTY SCHOOLS BUILDING DEPARTMENT BUILDING OFFICIAL.

INSTRUCTION:

- THE MANUFACTURER'S REPRESENTATIVE SHALL CONDUCT A MINIMUM OF THREE ORIENTATION MEETINGS WITH VCS PERSONNEL. OPERATION AND MAINTENANCE OF THE EQUIPMENT SHALL BE FULLY EXPLAINED.
- AFTER TRAINING IS COMPLETE PROVIDE UP TO 4 SITE VISITS AT SITE OR VCS CMC TO ASSIST OWNER WITH ANY QUESTIONS THEY MAY HAVE WITH RESPECT TO EQUIPMENT OR SOFTWARE.

CMC PROGRAMMING:

- UPDATE PROGRAMMING OF DMP RECEIVER AT CMC FOR NEW EQUIPMENT. DEVICE IDS SHALL BE ACCEPTABLE OWNER AND SHALL BE ADJUSTED IF REQUESTED BY OWNER.
- UPDATE MICROKEY SOFTWARE TO REFLECT NEW DEVICES.
- UPDATE PROGRAMMING OF OPEN OPTIONS PLATFORM AT CMC FOR NEW EQUIPMENT.

TESTING:

- TEST 100 % OF THE INTRUSION DEVICES ON CAMPUS AND CONFIRM PROPER OPERATION AND REPORTING AT CMC.
- TEST 100 % OF THE FIRE ALARM DEVICES ON CAMPUS AND CONFIRM PROPER OPERATION AND REPORTING AT CMC.

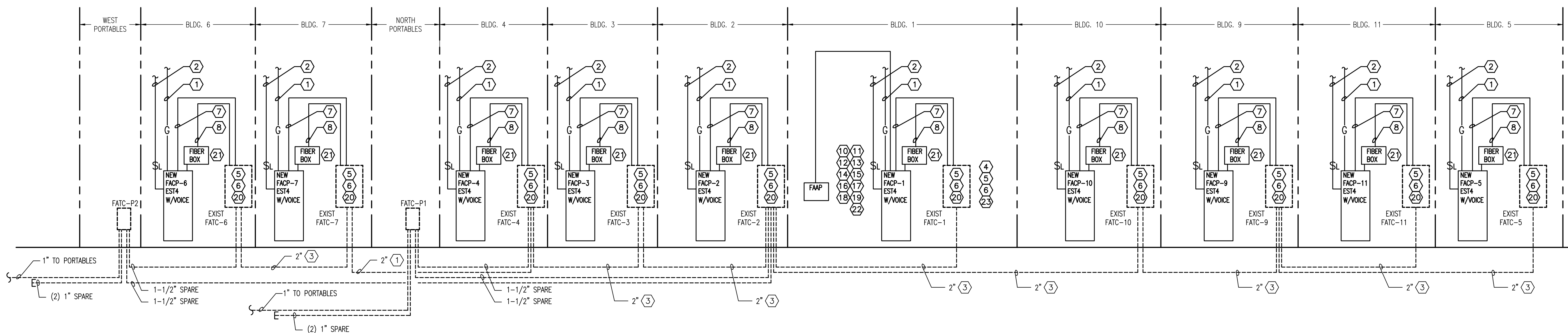
DEMONSTRATION:

- DEMONSTRATE REPORTING OF FIRE ALARM AND INTRUSION DEVICES AT CMC TO THE SATISFACTION OF THE VOLUSIA COUNTY SCHOOLS BUILDING DEPARTMENT BUILDING OFFICIAL.

INSTRUCTION:

- THE MANUFACTURER'S REPRESENTATIVE SHALL CONDUCT A MINIMUM OF THREE ORIENTATION MEETINGS WITH VCS PERSONNEL. OPERATION AND MAINTENANCE OF THE EQUIPMENT SHALL BE FULLY EXPLAINED.
- AFTER TRAINING IS COMPLETE PROVIDE UP TO 4 SITE VISITS AT SITE OR VCS CMC TO ASSIST OWNER WITH ANY QUESTIONS THEY MAY HAVE WITH RESPECT TO EQUIPMENT OR SOFTWARE.

NOTE: THIS CAMPUS HAS AN EXISTING NOTIFIER ADDRESSABLE INTRUSION SYSTEM. SCOPE OF WORK INCLUDES ADDING A UDACT-2 TO NOTIFIER SYSTEM AND PROVIDING INTRUSION CONTACT ID BACK TO CMC.



FIRE ALARM RISER DIAGRAM - RENOVATION

NOT TO SCALE

FIRE ALARM FIBER OPTIC BACKBONE CABLE SHALL BE 1 STRAND OM1 INDOOR/OUTDOOR RATED TIGHT BUFFERED CABLE WITH WATERBLOCKED CONSTRUCTION. CABLE SHALL BE UL LISTED.

PEX NOTES

- ① PROVIDE #6 GROUND WIRE IN CONDUIT TO GROUND BUS BAR.
(1) 3 1/4" WITH (2) #10, (1) #10 GROUND TO EXISTING EXISTING 120 VOLT EMERGENCY SOURCE. PROVIDE 1 POLE 20 AMP BREAKER.
- ③ PROVIDE NEW FIBER OPTIC CABLING IN EXISTING CONDUIT.
- ④ CONVERT EXISTING FIRE ALARM PANELS TO CONTAIN NEW EQUIPMENT. PROVIDE MOUNTING PANELS AND TERMINAL STRIPS AS REQUIRED. PROVIDE NEW LABELING AND STICKERS TO CLEARLY INDICATE NEW USE OF CABINET. MODEL OF SYSTEM AND ASSOCIATED FIRE ALARM INSTALLER. REPLACE EXISTING LOCK CYLINDERS WITH NEW LOCKS THAT MATCH KEY OF NEW EQUIPMENT.
- ⑤ PROVIDE ISOLATION MODULES TO ISOLATE PORTION OF ADDRESSABLE LOOP SERVING MODULES THAT MONITOR INITIATION CIRCUITS THAT LEAVE BUILDING. PROVIDE SURGE PROTECTION FOR BOTH THE HARD WIRED FIELD SIDE OF EACH MONITOR MODULE AS WELL AS FOR THE ADDRESSABLE LOOP.
- ⑥ PROVIDE SURGE PROTECTION FOR COPPER CIRCUITS ENTERING AND LEAVING BUILDING.
- ⑦ (2) 1" WITH COPPER CABLING.
- ⑧ (1) 1" WITH FIBER OPTIC CABLING.
- ⑨ (1) 1" WITH COPPER CABLING.
- ⑩ PROVIDE (1) DMP XR-550 TRANSMITTER, (1) DMP 714-16 16 ZONE SECURITY EXPANDER WITH LOCKABLE METAL ENCLOSURE, (1) DMP 714-8 8 ZONE SECURITY EXPANDER WITH LOCKING METAL ENCLOSURE AND (1) DMP 505-12-G POWER SUPPLY TO BE PLACED IN STACKED VERTICAL ARRANGEMENT IN OPEN WALL SPACE. PROVIDE 8 CONDUCTOR #18 AWG CABLE BETWEEN FIRE ALARM NETWORK CONTROL COMMUNICATOR AND DMP XR-550. CABLE SHALL BE TEXTURED TO REPORT ALARM, TROUBLE AND SUPERVISORY TO DMP XR-550 VIA CONTACT CLOSURES.
- ⑪ PROVIDE 120 VOLT POWER TO DMP XR-550 TRANSMITTER AND DMP 505-12-G FROM SAME 120 VOLT CIRCUIT FEEDING FIRE ALARM PANEL. PROVIDE SEPARATE SECURITY LOCKING KEY SWITCH AND EXDO HP121A SURGE SUPPRESSION UNIT FOR POWER FEED TO DMP EQUIPMENT.
- ⑫ PROVIDE (1) DMP DUALCONTACT-IP CONTACT ID COMMUNICATOR TO BE PLACED INSIDE PAIR ENCLASURE.

TEXT NOTES (CONTINUED)

13. FACP TO INCLUDE EST UNIVERSAL DIGITAL ALARM COMMUNICATOR TRANSMITTER. PROGRAM FIRE ALARM SYSTEM TO PROVIDE CONTACT ID TO DUALCOMF-LV. CONFIGURE FIRE ALARM SYSTEM TO ACCEPT OUTPUT 1 OF DUALCOMF-LV AS DUALCOMF-LV TROUBLE. FIRE ALARM SYSTEM TO PROVIDE 24 VOLT DC POWER TO DUALCOMF-LV. INTERCONNECT UDACT-2 AND DMP DUALCOMF-LV WITH (2) PAIR 24 AWG TELEPHONE CABLE CONNECTION.

14. PROVIDE HUBBELL RED WALL MOUNTED LOCKABLE TWO DOOR FIRE ALARM SECURE INTERCONNECTION BOX (HUBBELL FCWASPRGSA WITH ADDITIONAL FLOCK1) AND 4 PORT CAT 6 UTP INSERT. PROVIDE 1" CONDUIT FOR INTERCONNECTION OF DMP XR-550 ENCLOSURE WITH SECURE INTERCONNECTION BOX. PROVIDE RED CAT 6 PATCH CORDS FROM INTERCONNECTION BOX TO DMP XR-550 AND FROM INTERCONNECTION BOX TO DUALCOMF-LV IN NOTIFIER INTRUSION PANEL.

15. PROVIDE 1" CONDUIT FROM SECURE INTERCONNECTION BOX ENCLOSURE UP THROUGH CEILING AND OVER TO ABOVE IDF RACK. PROVIDE (4) RED CAT 6 CABLES FROM SECURE INTERCONNECTION BOX BACK TO IDF SERVING THIS FLOOR AREA.

16. PROVIDE 1" CONDUIT FROM EXISTING INTRUSION DETECTION PANEL TO DMP XR-550 FOR ROUTING OF NEW INTERFACE WIRING. PROVIDE CABLEING TO ALLOW INTERFACE OF EXISTING NOTIFIER SECURITY SYSTEM WITH NEW DMP EQUIPMENT.

17. FIELD VERIFY THE FUNCTIONAL STATE, ZONING AND PLACEMENT OF THE EXISTING MOTION DETECTORS THROUGHOUT CAMPUS AND PROVIDE UPDATED DRAWINGS SHOWING DEVICE LOCATIONS AND ASSOCIATED ZONE ASSIGNMENTS, ETC.

18. PROVIDE 1" CONDUIT FROM XR-550 AND FIRE ALARM NETWORK CONTROL ENCLOSURE FOR ROUTING OF INTERFACE WIRING.

19. PROVIDE 1" CONDUIT FROM FIRE ALARM NETWORK CONTROL ENCLOSURE UP THROUGH CEILING AND OVER TO ABOVE IDF RACK. PROVIDE (2) RED CAT 6 CABLES FROM 2 PORT BISCUIT JACK IN FIRE ALARM NETWORK CONTROL TO IDF SERVING THIS FLOOR AREA. PROVIDE RED CAT 6 PATCH CORD FOR CONNECTION OF DUALCOMF-LV TO BISCUIT JACK.

20. RECONDITION EXISTING FIRE ALARM CABINET(S). PROVIDE TERMINAL STRIPS AS REQUIRED. PROVIDE NEW LABELING AND STICKERS TO CLEARLY INDICATE NEW USE OF CABINET, MODEL OF SYSTEM, AND ASSOCIATED FIRE ALARM INSTALLER. REPLACE EXISTING LOCK CYLINDERS WITH NEW LOCKS THAT MATCH KEY OF NEW EQUIPMENT.

21. PROVIDE HUBBELL RED WALL MOUNTED LOCKABLE TWO DOOR FIRE ALARM SECURE FIBER BOX (HUBBELL FCWASPRGSA WITH ADDITIONAL FLOCK1) AND (4) 6 PORT ST FIBER CONNECTOR PANELS.

22. PROVIDE NOTIFIER UDACT-2 636 CHANNEL UNIVERSAL DIGITAL ALARM COMMUNICATOR TRANSMITTER IN EXISTING NOTIFIER INTRUSION PANEL. PROGRAM INTRUSION TO PROVIDE CONTACT ID TO DUALCOMF-LV. CONFIGURE INTRUSION SYSTEM TO ACCEPT OUTPUT 1 OF DUALCOMF-LV AS DUALCOMF-LV TROUBLE. INTRUSION SYSTEM TO PROVIDE 24 VOLT DC POWER TO DUALCOMF-LV. INTERCONNECT UDACT-2 AND DMP DUALCOMF-LV WITH (2) PAIR 24 AWG TELEPHONE CABLE CONNECTION.

23. PROVIDE YELLOW PUSHBUTTON WITH KEY RESET FOR ACTIVATION OF HAZ-MAT SEQUENCE. ACTIVATION OF HAZ-MAT SHALL SHUTDOWN AFU UNITS THAT HAVE FIRE ALARM SHUTDOWN RELAYS.

24. SIZE CONDUIT FOR ANNUNCIATOR PER FIRE ALARM INSTALLERS SHOP DRAWINGS.

GENERAL NOTES

- 1) REFER TO GENERAL NOTES.
- 2) REFER TO SPECIFICATIONS.
- 3) ALL HEX NOTES NOT NECESSARILY USED ON ALL SHEETS.
- 4) PROVIDE NEW ENGRAVED NAMEPLATES FOR ALL EQUIPMENT.
- 5) CONTRACTOR SHALL MAINTAIN CONTINUITY TO EXISTING DEVICES REMAINING.
- 6) RECONITION EXISTING FATC'S THAT ARE BEING USED FOR NEW SYSTEM. PROVIDE TERMINAL STRIPS AND OTHER ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
- 7) PROVIDE ISOLATION MODULES AND SURGE SUPPRESSION FOR ANY COPPER CABLING LEAVING OR ENTERING A BUILDING.
- 8) PROVIDE #6 GROUND CONDUCTOR FOR ALL REPLACED OR ADDED CABINETS CONNECTED TO SYSTEMS GROUND BUS BAR.
- 9) NEW FIRE ALARM EQUIPMENT SHALL BE FED FROM NEW 120 VOLT CIRCUITS AS REQUIRED.
- 10) PROVIDE NEW 120 VOLT SURGE SUPPRESSION FOR ALL FIRE ALARM EQUIPMENT. SURGE SUPPRESSION UNIT SHALL BE LOCATED OUTSIDE OF TERMINAL CABINETS.
- 11) WHERE EXISTING 120 VOLT CIRCUITS ARE PRESENT THEY SHALL BE REROUTED SO THAT 120 VOLT POWER DOES NOT PASS THROUGH FIRE ALARM TERMINAL CABINETS.
- 12) PROVIDE NEW SECURITY LOCKING KEY SWITCHES TO SERVE AS LOCAL KEY OPERATED DISCONNECTING MEANS FOR 120 VOLT CIRCUITS SERVING FIRE ALARM EQUIPMENT.
- 13) PRIOR TO MOUNTING ANY EQUIPMENT DETERMINE A PROPOSED LOCATION FOR ALL EQUIPMENT AND LAYOUT SAID LOCATION WITH BLUE TAPE BASED ON ACTUAL DIMENSIONS OF EQUIPMENT TO BE SUPPLIED. A PRE-INSTALLATION REVIEW SHALL BE SCHEDULED WITH ENGINEER AND OWNER TO REVIEW LOCATIONS PROPOSED.
- 14) PROVIDE NEW ENGRAVED NAMEPLATES FOR ALL EQUIPMENT.
- 15) ALL NEW AND EXISTING WIRING SHALL BE LABELED AT ALL TERMINATIONS.
- 16) COLOR CODING OF CONDUCTORS THAT ARE USED TO EXTEND AND EXISTING CIRCUIT TO NEW EQUIPMENT SHALL MATCH EXISTING CIRCUITS COLOR CODING.
- 17) REWORK/SUPPLEMENT GROUNDINGS EXISTING CABINETS/EQUIPMENT AS REQUIRED SO THAT EACH CABINET HAS A #6 GROUND WIRE TO SYSTEMS GROUND BUS BAR. PROVIDE ADDITIONAL LOCAL GROUND BARS WITHIN ENCLOSURES AS REQUIRED TO PROVIDE INDIVIDUAL TERMINATION FOR EACH GROUND WIRE SERVING A SURGE SUPPRESSION DEVICE OR OTHER ITEMS WITHIN RESPECTIVE ENCLOSURE.
- 18) NEW ENCLOSURES SHALL BE LARGEST SIZE OFFERED BY MANUFACTURER. MORE THAN ONE ENCLOSURE MAY BE REQUIRED TO ACCOMMODATE EQUIPMENT.
- 19) REMOTE ANNUNCIATOR BE PROVIDED AT BUILDING 1.
- 20) FIBER OPTIC CABLES SHALL BE INSTALLED AS A CLASS A RING IN AN EXISTING CLASS B CONDUIT SYSTEM.

MATERN

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MPE JOB # 2023-159

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HERITAGE MIDDLE SCHOOL
REPLACE FIRE ALARM
VCS Project NO. 2448035
1001 PARNELL COURT
DELTONA, FL 32738

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DESIGNED BY AWB	DRAWN BY MM/AWB
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