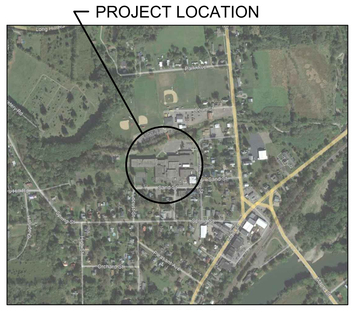
Afton Central School District

29 Academy St, Afton, NY 13730



LOCATION MAP

2024 Capital Project Phase 1

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HA PN: 2025-005

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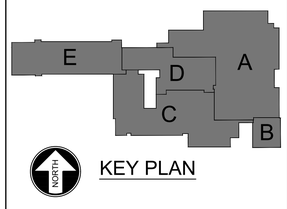

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project Phase 1

SEALS:

DRAWING TITLE:

COVER SHEET AND DRAWING INDEX

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A.L.	C.Z.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

G-000

CAD FILE: 5005-G-000.DWG PLOT DATE: 11/11/2025

GENERAL NOTES

ALL NOTES BELOW ARE THE RESPONSIBILITY OF ALL CONTRACTS

1. ANY ITEM SHOWN ON THE DRAWINGS AND NOT INCLUDED IN THE SPECIFICATIONS, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. SUBMIT SPECIFICATIONS TO THE ARCHITECT FOR APPROVAL.

2. CONTRACTOR IS TO PROVIDE ALL ITEMS GRAPHICALLY REPRESENTED IN THE DRAWINGS WHETHER IT IS DETAILED, DESIGNATED OR NOT INCLUDING BUT NOT LIMITED TO DOORS, GATES, STEPS, STAIRS, WALKS, CIVIL, ARCHITECTURAL, HVAC, ELECTRICAL, PLUMBING AND FIRE PROTECTION ELEMENTS ETC. REQUEST SPECIFICATION INFORMATION FROM THE ARCHITECT/ENGINEER.

3. THE CONTRACTOR SHALL INVESTIGATE JOB SITE TO COMPARE CONTRACT DOCUMENTS AND EXISTING CONDITIONS. INCLUDE COST FOR ALL WORK DESCRIBED IN CONTRACT DOCUMENTS AND REQUIRED OR IMPLIED BY EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND NEW WORK. OMISSIONS OR CONFLICTS IN THE DRAWINGS AND ANY RESTRICTIONS RELATED TO THE EXECUTION OF THE WORK.

4. CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH THE CONDITIONS OF THE CONTRACT, LOCAL CONDITIONS RELATING TO LOCATION, ACCESSIBILITY AND GENERAL CHARACTER OF THE CONSTRUCTION SITE AND LOCAL LABOR CONDITIONS SO THAT HE UNDERSTANDS THE NATURE, EXTENT, DIFFICULTIES, AND RESTRICTIONS RELATED TO THE EXECUTION OF WORK. NOTIFY ARCHITECT OF ALL DISCREPANCIES PRIOR TO COMMENCING WORK.

5. IF THERE IS A CONFLICT IN THE DOCUMENTS, THE BETTER QUALITY AND OR GREATER QUANTITY WILL BE PROVIDED BY THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST INTERPRETATION FROM THE ARCHITECT/ENGINEER PRIOR TO PROVIDING ANY ITEM IN QUESTION. IF THE CONFLICT IS NOT REPORTED TO THE ARCHITECT/ENGINEER, AND THE CONTRACTOR PROVIDES THE ITEM IN QUESTION, THE CONTRACTOR SHALL BE REQUIRED TO REPLACE THE ITEM AT NO ADDITIONAL COST TO THE OWNER.

6. THE CONTRACTOR SHALL ISSUE COMPLETE SETS OF THE CONTRACT DOCUMENTS TO EACH OF THE SUBCONTRACTORS FOR COORDINATION OF THEIR WORK AND DESCRIPTION OF SCOPE OF THE WORK. COORDINATE ALL DEMOLITION AND CONSTRUCTION WITH OTHER TRADES.

7. THE CONTRACTOR SHALL APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND APPROVALS BY LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT. PROVIDE COPIES OF ALL TRANSACTIONS TO OWNER. NOTIFY ARCHITECT OF ANY VARIANCE WITH CODES IN FORCE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK.

8. THE CONTRACTOR SHALL PROVIDE, AND PAY FOR ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT, WAREHOUSING, TRANSPORTATION AND DELIVERY COSTS, HOISTING, REMOVAL OF TRASH AND DEBRIS, AND OTHER FACILITIES AND SERVICES NECESSARY FOR THE EXECUTION AND COMPLETION OF THE WORK.

9. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR, AND HAVE CONTROL OVER, ALL CONSTRUCTION MEANS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK REQUIRED BY THE CONTRACT DOCUMENTS.

10. THE ARCHITECT/ENGINEER IS NOT RESPONSIBLE FOR ERRORS, OMISSIONS OR DELAYS BY THE CONTRACTOR.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTS AND OMISSIONS OF THE CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND ANY OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH A CONTRACTOR.

12. OTHER CONTRACTORS AND THEIR SUBCONTRACTORS MAY BE WORKING ON THE PREMISES SIMULTANEOUS WITH THE DURATION OF THIS CONTRACT. NO ACTION SHALL BE TAKEN ON THE PART OF THIS CONTRACTOR OR ANY SUBCONTRACTOR TO IMPEDE THE ACCESS OR OPERATION OF ANY OTHER CONTRACTOR ON THE PREMISES, UNION OR NON-UNION.

13. WORK SHALL BE DONE DURING NORMAL WORKING HOURS. CONTRACTOR SHALL SCHEDULE AND PERFORM ALL WORK SO AS NOT TO UNREASONABLY DISTURB ANY TENANT IN THE BUILDING AND SHALL BE RESPONSIBLE FOR ANY OVERTIME COSTS INCURRED THEREBY.

14. THE CONTRACTOR SHALL COMPLY AND COORDINATE ALL WORK WITH BUILDING OWNER REGARDING HEAT, WATER, ELECTRICITY, DELIVERIES, ACCESS, ELEVATOR AVAILABILITY, NOISE CONTROL, TRASH AND DEBRIS REMOVAL, HOISTING, AND ANY OTHER UTILITIES OR OWNER'S RULES AND REGULATIONS CONCERNING THE PROJECT SITE.

15. THE CONTRACTOR SHALL PROCURE MATERIALS SO AS NOT TO DELAY SUBSTANTIAL COMPLETION. NOTIFY ARCHITECT WITHIN 5 DAYS OF EXECUTION OF CONTRACT OF ANY MATERIAL DELIVERY WHICH COULD DELAY COMPLETION OF CONTRACT.

16. THE CONTRACTOR SHALL COORDINATE SCHEDULING, PROVISIONS FOR INSTALLATION, LOCATIONS AND THE ACTUAL INSTALLATION OF ITEMS FURNISHED BY OWNER OR BY OTHERS.

17. COORDINATE WORK WITH ALL TRADES ON THE PROJECT NOT UNDER CONTRACT TO THE CONTRACTOR. ANY CHANGES OR DELAYS ARISING FROM CONFLICTS BETWEEN SUCH TRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

18. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD. CONTRACT DRAWINGS ARE NOT INTENDED TO REPRESENT EXACT DIMENSIONS. VERIFICATION OF DIMENSIONS IS THE RESPONSIBILITY OF THE CONTRACTOR FOR ALL PHASES OF THE PROJECT INCLUDING BIDDING, FABRICATION, COORDINATION AND CONSTRUCTION. DIMENSIONS OF EXISTING ELEMENTS ARE FOR GENERAL INFORMATION ONLY AND MUST BE VERIFIED IN THE FIELD.

22. CHANGES IN DRAWINGS OR ACTUAL WORK SHALL BE ISSUED BY THE ARCHITECT.

23. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS.

24. PERFORM ALL WORK AND INSTALL MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS AND IN A MANNER CONSISTENT WITH INDUSTRY STANDARD OF WORKMANSHIP.

25. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL NECESSARY COVERINGS, PROTECTIVE ENCLOSURES, TEMPORARY DOORS AND PARTITIONS AND DUST BARRIERS TO PROTECT ALL OCCUPANTS, WORKERS AND EXISTING WORK AND FINISHES TO REMAIN. LOCATION OF SUCH PROTECTION SHALL BE VERIFIED WITH OWNER PRIOR TO COMMENCING WORK AND IN COORDINATION WITH PROGRESSION OF WORK SCHEDULE. PERFORM WORK IN A MANNER THAT WILL AVOID HAZARD TO PERSONS IN ADJACENT AREAS AND THAT WONT INTERFERE WITH WORK OR PASSAGE TO ANY OF THESE AREAS. REPAIR AND REPLACE ANY DAMAGED MATERIAL CAUSED BY IMPROPER PROTECTIONS AT NO ADDITIONAL CHARGE TO OWNER. A WEATHER TIGHT SYSTEM ENCLOSURE AND TEMPORARY HEAT WHEN REQUIRED TO COMPLETE THE WORK IS REQUIRED FOR THE COMPLETE BUILDING THROUGHOUT THE ENTIRE PROJECT.

26. CONTRACTOR TO REMOVE ANY STRAY PAINT, DIRT, OR STAINS INCURRED DURING THE CONSTRUCTION PROCESS. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TEMPORARY EQUIPMENT COVERINGS USED DURING CONSTRUCTION AND HE SHALL ALSO BE RESPONSIBLE FOR REMOVING HIS TRASH OFF OF THE JOB SITE DAILY.

27. WORK DAMAGED DURING CONSTRUCTION OR NOT CONFORMING TO SPECIFIED STANDARDS, TOLERANCES OR MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE WORK INCLUDES ALL BUILDING AND SITE ELEMENTS.

28. THE CONTRACTOR SHALL MAINTAIN ALL EXITS, EXIT LIGHTING, FIRE PROTECTION DEVICES AND LIFE SAFETY SYSTEMS IN WORKING ORDER AS REQUIRED BY CODE.

29. EXIT DOORS, EGRESS DOORS, AND OTHER DOORS REQUIRED FOR MEANS OF EGRESS DURING CONSTRUCTION SHALL BE OPERABLE FROM THE INSIDE WITHOUT USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

30. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND WELDING IN COMPLIANCE WITH THE PUBLISHED STANDARDS OF NFPA. THE CONTRACTOR SHALL PROVIDE FIRE WATCHES FOR ALL CUTTING, GRINDING, AND WELDING OPERATIONS. THE TRAINING OF THESE FIRE WATCHES AND THE USE OF THE CONTRACTOR'S SUPPLIED FIRE EXTINGUISHERS IS THE RESPONSIBILITY OF THE CONTRACTOR.

31. ANY AREA OUTSIDE THE LIMITS OF CONSTRUCTION DISTURBED BY OPERATIONS OF THE CONTRACTOR SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS AT THE CONTRACTOR'S EXPENSE.

32. THE USE OF RECYCLED FILL MATERIALS IS PROHIBITED UNDER ANY STRUCTURE. ALL FILL UNDER STRUCTURES IS TO BE ITEM 4 IN NEW YORK AND PENNDOT 2A SELECT STRUCTURAL FILL IN PENNSYLVANIA. NO SUBSTITUTIONS WILL BE ACCEPTED.

33. CONTRACTOR SHALL PROVIDE MEANS OF CONVEYING ALL MATERIALS TO AND FROM ROOF.

34. CONTRACTOR SHALL BE MADE AWARE THAT ANY EXISTING EQUIPMENT "TO REMAIN" MUST BE PROTECTED DURING THE DEMOLITION AND CONSTRUCTION PROCESS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO EQUIPMENT AND PROVIDE TEMPORARY COVERING FOR ALL EXISTING EQUIPMENT TO REMAIN.

35. REPAIR AND/OR REPLACE EXISTING ITEMS NOT SCHEDULED OR NOTED TO BE DEMOLISHED, AND NOT SPECIFIED TO BE REMOVED, BUT WHICH BECOME DAMAGED DURING THE PROGRESS OF THE WORK. MAKE ANY AND ALL SUCH REPAIRS, REPLACEMENTS AND MODIFICATIONS TO RESTORE THE DAMAGED ITEMS TO THEIR ORIGINAL CONDITION AT THE TIME OF DAMAGE, TO THE SATISFACTION OF AND AT NO ADDITIONAL COST TO THE OWNER.

36. 24 HOURS PRIOR TO OCCUPANCY OF ANY PHASE, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL SURFACES OF DUST, DEBRIS, LOOSE CONSTRUCTION MATERIAL AND EQUIPMENT. VACUUM OR MOP ALL FLOORS AND CLEAN WINDOWS.

37. THE CONTRACTOR SHALL PROVIDE A WARRANTY TO THE OWNER THAT ALL MATERIALS, AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW, UNLESS OTHERWISE SPECIFIED, AND THAT ALL WORK SHALL BE OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND SHALL CONFORM TO THE CONTRACT DOCUMENTS.

38. FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF SUBSTANTIAL COMPLETION, CONTRACTOR SHALL PROMPTLY CORRECT WORK FOUND NOT TO BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BEAR ALL COST OF CORRECTIONS.

39. THE CONTRACTOR. SHALL SUBMIT FOR ARCHITECT'S REVIEW ALL BUILDING STANDARD SAMPLES AND PRODUCT LITERATURE. CONTRACTOR TO ALSO SUBMIT SAMPLES AND PRODUCT LITERATURE AND OTHER PERTINENT DATA FOR ARCHITECT'S CONSIDERATION OF ANY PROPOSED SUBSTITUTIONS.

40. THE CONTRACTOR. SHALL SUBMIT FOR ARCHITECT'S REVIEW PRIOR TO FABRICATION OR PURCHASE, SHOP DRAWINGS OR SAMPLES FOR ALL MILLWORK, CUSTOM METALWORK, CUSTOM CASEWORK, AND ALL OTHER ITEMS AS REQUESTED BY THE ARCHITECT FOR ALL ABOVE BUILDING STANDARD ITEMS.

41. PERFORM ALL INTERIOR AND EXTERIOR WORK INSTALLING MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS AND IN A MANNER CONSISTENT WITH INDUSTRY STANDARD OF WORKMANSHIP. FOLLOW ALL SAFETY PROCEDURES TO PROTECT WORKERS, GENERAL PUBLIC, AND BUILDING OCCUPANTS.

42. NOTIFY AND SCHEDULE WITH BUILDING OWNER AND EVERYONE INVOLVED WITH PROJECT (IN ADVANCE), WHEN CERTAIN WORK OR CONSTRUCTION IS BEING PERFORMED THAT REQUIRES THE BUILDING TO BE EVACUATED. SCHEDULE ALL WORK SO AS NOT TO INTERFERE WITH BUILDING OCCUPANTS. PERFORM WORK ON OFF HOURS OR WORK SHIFTS WHEN BUILDING IS VACANT, AND ALLOW ENOUGH TIME FOR ANY ODORS TO DISSIPATE. PROVIDE PROPER EXHAUST VENTILATION AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. CONTRACTOR TO SUBMIT DUST AND H.V.A.C. (VENTILATION) CONTROL PLAN AND PROCEDURES TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO STARTING CONSTRUCTION.

43. CONTRACTOR SHALL FULLY ACQUAINT HIMSELF WITH THE CONDITIONS OF THE CONTRACT, LOCAL CONDITIONS RELATING TO LOCATION, ACCESSIBILITY AND GENERAL CHARACTER OF THE CONSTRUCTION SITE AND LOCAL LABOR CONDITIONS SO THAT HE UNDERSTANDS THE NATURE, EXTENT, DIFFICULTIES, AND RESTRICTIONS RELATED TO THE EXECUTION OF WORK. NOTIFY ARCHITECT OF ALL DISCREPANCIES PRIOR TO COMMENCING WORK.

44. REVIEW ALL PRODUCT M.S.D.S (MATERIAL SAFETY DATA SHEET) INFORMATION ON ALL MATERIALS AND FOLLOW ALL SAFETY AND APPLICATION PROCEDURES.

45. THE FOLLOWING LIST IS A SAMPLE OF ITEMS THAT REQUIRE SPECIAL PRECAUTIONS: PAINTS, STAINS, SOLVENTS, VAPORS, EPOXY, CORROSIVES, CONTAMINANTS, VAPOR EMISSION COMPLIANCE TREATMENTS, ADHESIVES, GLUES, CLEANING SOLUTIONS, PROPANE, FUELS, WELDING, CHEMICALS, ETC...

46. ANY FABRICATION AND/OR INSTALLATION WHICH HAS NOT BEEN PROPERLY COORDINATED WITH APPROVED EQUIPMENT MANUFACTURE AND MUST BE REPAIRED, RELOCATED, ALTERED, REPLACED, RE-INSTALLED OR MODIFIED IN ANY MANNER WILL BE DONE TO THE SATISFACTION OF THE OWNER WITH NO ADDITIONAL COST TO THE OWNER OR DESIGN PROFESSIONAL

CONCRETE WORK

47. ALL CONCRETE WALKS TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION ARE TO BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

48. FOR EXTERIOR CONCRETE SLABS AND WALKS, PROVIDE CONTRACTION JOINTS AT A MINIMUM EVERY 6 TO 8 FEET AND EXPANSION JOINTS AT A MINIMUM EVERY 20 FEET.

49. REINFORCING IS REQUIRED IN ALL CONCRETE PADS AND WALKS INCLUDING SITE EQUIPMENT PADS.

50. ALL CONCRETE SLABS, NEW OR EXISTING, ARE REQUIRED TO SLOPE TO FLOOR DRAINS UNLESS SPECIFICALLY DESIGNATED OTHERWISE.

MASONRY WORK

51. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL WEEP JOINTS AROUND WINDOWS AND EXTRUDED ALUM. STORE FRONTS FREE OF CAULK.

52. ALL MASONRY WEEP HOLES MUST BE LOCATED ABOVE GRADE, ABOVE CONCRETE WALKS, ABOVE PAVEMENT MULCH, ETC. DO NOT COVER WEEP HOLES UNDER ANY CIRCUMSTANCES. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL CIVIL WORK (TYPICAL).

53. MASONRY CONTRACTOR TO INSTALL BRICK WALLS AS PER DRAWINGS AND SPECIFICATIONS. ALL INSTALLATION METHODS, DETAILS, RECOMMENDATIONS, LATEST TECHNICAL DEVELOPMENTS, ETC. SHALL BE AS PER THE BRICK INSTITUTE OF AMERICA, 11490 COMMERCE PARK DRIVE RESTON VIRGINIA 22091. 703-620-0010.

54. PROPER BRICK BACK UP SYSTEM, ANCHORS, ETC. MUST BE IN PLACE PRIOR TO INSTALLING ANY BRICK. CONTRACTOR MUST NOT INSTALL ANY BRICK IF BACK UP SYSTEM IS NOT PROPERLY CONSTRUCTED. NOTIFY CONSTRUCTION MANAGER AND ARCHITECT IMMEDIATELY.

55. ALL CONCRETE MASONRY WALLS (C.M.U) TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL CONCRETE MASONRY ASSOCIATION. 2302 HORSE PEN ROAD, HERNDON, VIRGINIA 22071-3406

56. REFER TO WALL SECTIONS FOR WEEP VENTS, WEEP HOLES, FLASHINGS, ANCHORS, ETC.

STEEL AND METAL WORK

57. ANY STEEL THAT IS GRAPHICALLY REPRESENTED ON THE ARCHITECTURAL DRAWINGS MUST BE PROVIDED. REQUEST SIZE INFORMATION FROM THE ARCHITECT/ENGINEER. ANY STEEL NOT SHOWN ON THE STRUCTURAL DRAWINGS IS TO BE FURNISHED BY THE GENERAL TRADES CONTRACTOR.

58. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVISION AND INSTALLATION OF ALL SUPPLEMENTAL MISCELLANEOUS IRON AND/OR STRUCTURAL STEEL (16 GA.) STUDDING REQUIRED TO ADEQUATELY SUPPORT ALL GYPSUM WALLBOARD DROPS SOFFITS, CORNICES, ETC. FROM THE STRUCTURAL STEEL ABOVE.

59. GENERAL CONTRACTOR SHALL CLOSELY COORDINATE THE INSTALLATION OF THE REQUIRED SUPPLEMENTAL MISC. IRON AND/OR STRUCTURAL STEEL STUDDING SO AS CONDUIT, SPRINKLER SYSTEM AND/OR ACOUSTICAL SUSPENDED CEILING SYSTEM ETC... CAN BE INSTALLED PROPERLY.

60. CONTRACTOR TO SUBMIT DETAILED SHOP DRAWING OF SUPPLEMENTAL MISC. IRON AND/OR STRUCT. STL. STUDDING TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF SAME.

61. STRUCTURAL STEEL FABRICATOR AND INSTALLER SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL FRAMED OPENINGS IN ROOF WITH APPROVED EQUIPMENT MANUFACTURES. OPENINGS SUCH AS, BUT NOT LIMITED TO MECHANICAL UNITS, EXHAUST FANS, CURB MOUNTED EQUIPMENT, ROOF DRAINS, SKYLIGHTS, STAIR OPENINGS, ROOF HATCHES, SMOKE HATCHES, DUCT THROUGH ROOF PENETRATIONS, EXPANSION JOINTS, ETC. EXACT SIZES AND EXACT LOCATIONS OF ALL OPENINGS ARE TO BE VERIFIED WITH THE APPROVED SHOP DRAWINGS ISSUED FOR THE INSTALLATION. THE EXACT SIZES SHALL BE COORDINATED PRIOR TO ANY FABRICATION AND INSTALLATION BY ANY/ALL TRADES. SIZES AND LOCATIONS OF OPENINGS INDICATED ON THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND FOR GENERAL INFORMATION ONLY. ANY FABRICATION AND/OR INSTALLATION WHICH HAS NOT BEEN PROPERLY COORDINATED WITH APPROVED EQUIPMENT MANUFACTURE MUST BE REPAIRED, RELOCATED, ALTERED, REPLACED, REINSTALLED OR MODIFIED TO THE SATISFACTION OF THE OWNER WITH NO ADDITIONAL COST TO THE OWNER OR THE DESIGN PROFESSIONAL.

62. ALL EXTERIOR STRUCTURAL STEEL MEMBERS TO RECEIVE HIGH PERFORMANCE COATING UNLESS OTHERWISE NOTED. ALL INTERIOR STRUCTURAL STEEL IS TO BE FIREPROOFED AND IS TO HAVE NO PRIMER COAT, UNLESS OTHERWISE NOTED.

63. WHERE TWO DISSIMILAR METALS MEET, PAINT FACE OF ONE WITH BITUMINOUS PAINT.

64. ANY ADDITIONAL STEEL THAT IS REQUIRED DUE TO SUBSTITUTION OF EQUIPMENT OR SYSTEMS IS TO BE PROVIDED BY THE CONTRACTOR MAKING THE SUBSTITUTION AT NO ADDITIONAL COST TO THE OWNER.

THERMAL, MOISTURE AND SOUND ISOLATION PROTECTION, FIRE PROOFING

65. CONTRACTOR IS TO PROVIDE TEMPORARY WATERTIGHT WEATHERPROOF CLOSURES AT ALL ROOF OPENINGS UNTIL AFTER INSTALLATION OF MECHANICAL UNITS, DRAINS, VENTS, ETC. ROOF IS THEN TO BE RESEALED WEATHER-TIGHT.

66. ALL PENETRATIONS THROUGH RATED WALLS ARE TO BE SEALED TO MAINTAIN INTEGRITY OF WALL CONSTRUCTION AND RATING.

67. ALL INSULATION EXPOSED TO CEILING PLENUM IS TO BE FIRE AND DUST PROOF.

68. INSULATION WILL NOT BE LEFT EXPOSED IN ANY FINISHED SPACE. AT A MINIMUM, THE INSULATION WILL BE COVERED WITH GYPSUM BOARD, TAPED, SPACKLED, SANDED AND PAINTED.

69. CONTRACTOR IS TO REPLACE ANY SPRAY-ON FIREPROOFING DAMAGED DURING CONSTRUCTION SO AS TO MAINTAIN INTEGRITY OF INSTALLATION

70. WHEREVER A FOAM BACKER ROD AND SEALANT ARE USED, THE SEALANT AND BACKER ROD MUST BE COMPATIBLE WITH EACH OTHER. USE A SIZE BACKER ROD THAT COMPRESSES 25% WHEN INSERTED INTO THE JOINT. (TYPICAL ALL JOINTS)

71. ALL EXTERIOR WINDOWS, DOORS, LOUVERS, VENTS, EXHAUST FANS, PIPE PENETRATIONS, AND ALL OTHER PENETRATIONS THRU EXTERIOR WALLS SHALL BE SEALED ALL AROUND WITH SEALANT. (BOTH ON EXTERIOR AND INTERIOR SIDES)

72. ALL ROOF WORK SHALL BE DONE IN ACCORDANCE WITH EXIST. ROOF MANUFACTURES RECOMMENDATIONS SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES. CONSULT WITH EXISTING ROOF MANUFACTURER PRIOR TO DOING ANY WORK. PROVIDE ALL NECESSARY ROOF PROTECTION TO MAINTAIN ROOF PERFORMANCE AND WARRANTY.

73. ALL OPENINGS / PENETRATIONS IN WALLS, FLOORS AND CEILINGS SHALL BE SEALED WITH NELSON FIRE-STOP PRODUCTS (1-800-331-7325) OR APPROVED EQUAL. PRODUCT USE SHALL BE AS RECOMMENDED BY NELSON AND MUST MAINTAIN RATING OF ALL WALLS, FLOORS AND CEILINGS. ALL PENETRATIONS REQUIRE SEALANT, SUCH AS BUT NOT LIMITED TO THE FOLLOWINGS:
STRUCTURAL STEEL, PIPING, CONDUITS, DUCTWORK, WIRING ETC. CONTRACTOR MUST PROVIDE DETAILED SHOP DWGS. OF ALL PENETRATIONS FOR ARCHITECTS REVIEW, NO EXCEPTIONS.

74. FOR INSTALLATION OF INSULATION & VAPOR / AIR BARRIERS, INCLUDING ALL TYPES OF INSULATION: BATTS, SPRAY INSULATION, ACOUSTICAL, ETC. (REFER TO DRAWINGS AND SPECIFICATIONS FOR TYPES) CONTRACTOR MUST INSTALL INSULATIONS & VAPOR / AIR BARRIERS AS PER MANUFACTURER'S INSTRUCTIONS, SPECIFICATIONS, METHODS, RECOMMENDATIONS, STANDARDS, PROCEDURES, ETC. FOR EACH TYPE OF INSULATION & VAPOR / AIR BARRIER. SEALING OF ALL GAPS TO PROVIDE A CONTINUOUS ENVELOPE, ATTACHMENT, JOINT SEALING, CONDENSATION CONTROL, THERMAL PERFORMANCE, ACOUSTICAL PERFORMANCE, FIRE PERFORMANCE RATINGS, AESTHETICS, ASTM STANDARDS COMPLIANCE, INTERNATIONAL BUILDING CODE, LOCAL CODES, UNDERWRITERS LABORATORIES, FACTORY MUTUAL, EPA, ETC. MUST ALL BE FOLLOWED.

75. REFER TO MECHANICAL (HVAC), PLUMBING AND ELECTRICAL DRAWINGS FOR DETAILS OF UTILITY WALL PENETRATIONS.

ACOUSTICAL PERFORMANCE

76. ALL NEW STC RATED PARTITIONS SHALL HAVE SOUND ATTENUATION INSULATION BLANKETS FROM CONCRETE SLAB TO UNDERSIDE OF DECK ABOVE. THICKNESS OF INSULATION IS TO MATCH THICKNESS OF STUD FRAME TO FILL VOIDS COMPLETELY. SEE PARTITION LEGEND FOR ADDITIONAL INFORMATION.

77. ALL PERIMETER EDGES OF STC RATED PARTITIONS SHALL BE CAULKED WITH AN ACOUSTICAL SEALER, CONTINUOUS.

78. AT ALL PENETRATIONS (DUCTS, PIPES, CONDUITS, ETC.) THRU ANY STC RATED PARTITIONS, PROVIDE 1" SPACE AROUND PERIMETER. VOID SHALL BE PACKED WITH SOUND ATTENUATION BLANKETS AND CAULKED WITH ACOUSTICAL SEALANT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

79. WRAP BACKSIDE OF BOXES WITH MOLDABLE ACOUSTIC DEADENING SOUND MAT AND PACK AROUND ALL ELECTRICAL OUTLETS AND SWITCH BOXES WITH SOUND ATTENUATION INSULATION (THICKNESS TO MATCH VOID) AND CAULK WITH ACOUSTICAL SEALANT. ELECTRICAL CONTRACTOR SHALL NOT INSTALL ANY OUTLETS BACK TO BACK. INSTALL ONLY ONE BOX PER STUD CAVITY.

80. ALL WALL PANELS TO BE RECESSED IN A SOUND ATTENUATION LINED BOX. CONDUITS INTO BOX TO BE ACOUSTICALLY PACKED AND CAULKED WITH ACOUSTICAL SEALANT.

81. INSULATE AROUND ALL CONDUITS, PIPES, ETC. - RUN IN STUD PARTITIONS WITH 3\" SOUND ATTENUATION INSULATION.

OPENINGS, PENETRATIONS, WOODS, PLASTICS, STEEL FRAMING, STEEL STUDS AND BRACING

82. ALL EXTERIOR WINDOWS, DOORS, LOUVERS, VENTS, EXHAUST FANS, DUCTWORK, CONDUIT AND PIPE PENETRATIONS, AND ALL OTHER PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE SEALED COMPLETELY AROUND WITH SEALANT. (BOTH ON EXTERIOR AND INTERIOR SIDES)

83. ALL WOOD TO BE FIRE RETARDANT TYPICAL UNLESS OTHERWISE NOTED.

84. ALL WOOD ON EXTERIOR WALLS AND ROOF TO BE MOISTURE RESISTANT UNLESS OTHERWISE NOTED.

85. CONTRACTOR IS TO PROVIDE ALL MISC. FRAMING, BLOCKING, ETC. TO HANG SCREENS, BULLETIN BOARDS, RAILS, TOILET ACCESSORIES, WOODWORK, ETC.

86. ALL INTERIOR PARTITIONS WHICH RECEIVE CERAMIC TILE SHALL BE 20 GAGE MIN. AT 12\" O.C. WITH HORIZONTAL COLD ROLLED STIFFENER CHANNELS AT 4'-0\" O.C. (MAX.) AND EXTEND FROM FINISHED FLOOR TO STRUCTURE ABOVE. 20 GAGE DIAGONAL STUD KICKERS MUST ALSO BE INSTALLED AT EVERY OTHER VERTICAL STUD ABOVE CEILING.

87. PROVIDE STEEL AND OR STEEL FRAMING FOR ALL ROOF MOUNTED EQUIPMENT INCLUDING BUT NOT LIMITED TO HVAC, ELECTRICAL AND PLUMBING EQUIPMENT.

88. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLATION OF ALL SUPPLEMENTAL MISCELLANEOUS IRON AND/OR STRUCTURAL STEEL (16 GA.) STUDDING REQUIRED TO ADEQUATELY SUPPORT ALL GYPSUM WALLBOARD DROPS SOFFITS, CORNICES, ETC. FROM THE STRUCTURAL STEEL ABOVE.

89. CONTRACTOR IS TO COORDINATE WITH ALL TRADES FOR CEILING PENETRATIONS AND PROVIDE BRACING FOR EXTRA SUPPORT AS NECESSARY FOR PROPER INSTALLATION.

90. ALL PENETRATIONS THROUGH DRYWALL AND MASONRY SURFACES INCLUDING BUT NOT LIMITED TO PIPE, CONDUIT, DUCTWORK, GRILLES, REGISTERS, DEVICE BOXES, HANGER RODS, ETC. SHALL HAVE THEIR COMMON JOINTS WITH DRYWALL AND/OR MASONRY CAULKED TO PROVIDE AN AIR-TIGHT SEAL.

91. PROVIDE OPENINGS AS REQUIRED FOR MECH. AND ELECT. EQUIPMENT. DRYWALL CONTRACTOR TO PROVIDE STUD BRACING AS REQUIRED TO STABILIZE WALLS ABOVE CEILINGS AT HIGH AND LOW PARTITIONS.

92. PIPE SLEEVES ARE TO BE CONDUIT (LENGTH TO MATCH THE THICKNESS OF THE WALL), WITH INSULATED BUSHINGS AND ARE TO BE SEALED AFTER CONDUIT INSTALLATION TO MAINTAIN RATING. SLEEVES ARE TO BE PLACED IN FIRST BLOCK COURSE.

93. CONTRACTOR SHALL FRAME AND FINISH ALL MECHANICAL AND ELECTRICAL WALL AND ROOF PENETRATIONS.

94. CONTRACTOR IS TO PROVIDE STUD BRACING FOR METAL STUD PARTITIONS TALLER THAN 10'-0\" AFF. SPACING OF BRACING TO BE AS DETAILED OR AS REQUIRED.

95. 2 X 6 CONTINUOUS WOOD BLOCKING AND/OR MISCELLANEOUS FRAMING SHALL BE PROVIDED AT DRYWALL PARTITIONS FOR ALL WALL MOUNTED ELEMENTS INCLUDING BUT NOT LIMITED TO CABINET WORK AT TOP AND BOTTOM OF WALL MOUNTED UNITS AND UNDER COUNTER TOP LEVEL OF BASE CABINET, SHELVING, WALL MOUNTED FF&E ITEMS AND EQUIPMENT, PROJECTION SCREENS, MONITORS, BULLETIN BOARDS, WHITE BOARDS, SMART BOARDS, RAILS, TOILET ACCESSORIES, MILLWORK AND WOODWORK, ETC.

96. CONTRACTOR SHALL CLOSELY COORDINATE THE INSTALLATION OF THE REQUIRED SUPPLEMENTAL MISCELLANEOUS IRON AND/OR STRUCTURAL STEEL STUDDING WITH CONDUIT, SPRINKLER SYSTEM AND/OR ACOUSTICAL SUSPENDED CEILING SYSTEM.

97. EXACT SIZES AND EXACT LOCATIONS OF ALL OPENINGS ARE TO BE VERIFIED WITH THE APPROVED SHOP DRAWINGS ISSUED FOR THE INSTALLATION. THE EXACT SIZES SHALL BE COORDINATED PRIOR TO ANY FABRICATION AND INSTALLATION BY ANY/ALL TRADES. (SIZES AND LOCATIONS INDICATED ON CONTRACT DRAWINGS ARE DIAGRAMMATIC AND FOR INFORMATION ONLY.)

DOORS, WINDOWS AND HARDWARE

98. VERIFY ALL KEYING REQUIREMENTS OF ALL LOCKS WITH OWNER.

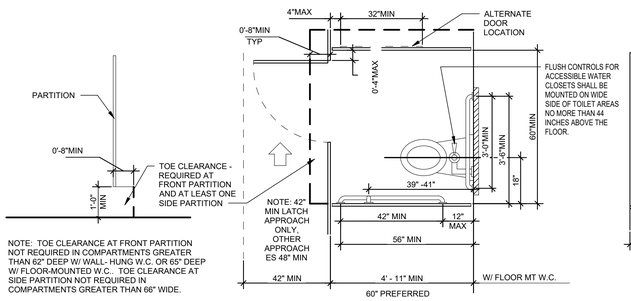
99. PROVIDE ELECTRICAL WORK FOR ALL HARDWARE REQUIRING ELECTRICAL, SHOWN ON THE DRAWINGS OR NOT SHOWN ON THE DRAWINGS. COORDINATION OF ALL ELECTRONIC HARDWARE IS REQUIRED. PROVIDE ALL HARDWARE REQUIRED IF NOTED ON ELECTRICAL, ARCHITECTURAL, SPECIAL SYSTEMS OR IT DRAWINGS.

100. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL WEEP JOINTS AROUND WINDOWS AND EXTRUDED ALUMINUM STORE FRONTS FREE OF CAULK.

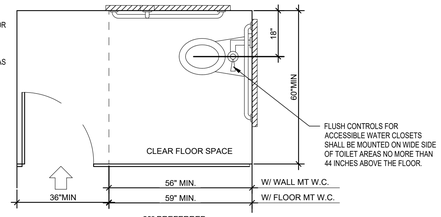
101. ALL EXTERIOR DOOR FRAMES SHALL RECEIVE FOAM INSULATION INSERTS TYP. AT HEAD AND JAMB. ALL EXTERIOR ENTRANCE DOORS AND FRAMES TO RECEIVE PERI

1 TYPICAL ACCESSIBLE TOILET ROOMS

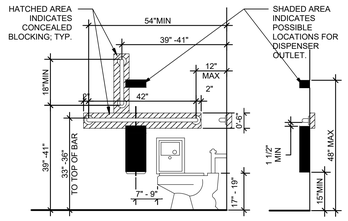
SCALE: 1/4"=1'-0"



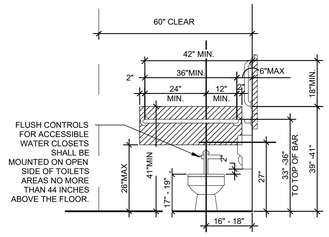
OUTSWING MINIMUM CLEARANCES



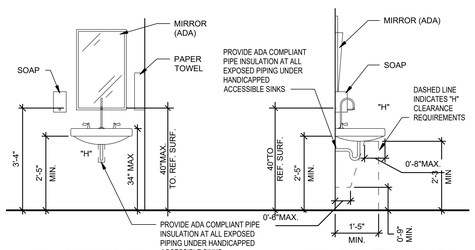
INSWING MINIMUM CLEARANCES



TOILET SIDE ELEVATION



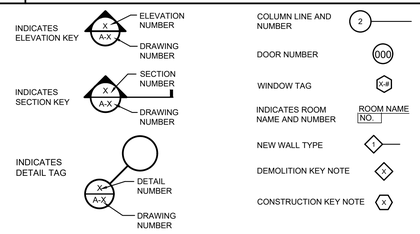
TOILET FRONT ELEVATION



WALL MOUNTED SINK (ADA)
FRONT ELEVATION

WALL MOUNTED SINK (ADA)
SIDE ELEVATION

2 ARCHITECTURAL SYMBOL LEGEND



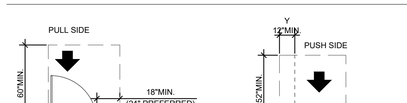
3 ARCHITECTURAL ABBREVIATIONS

DESIGNATION	DESCRIPTION	DESIGNATION	DESCRIPTION
'	FEET	MO	MASONRY OPENING
"	INCHES	MPH	MILES PER HOUR
#	POUNDS	MTD	MOUNTED
%	PERCENT	MTG	MOUNTING
&	AND	N	NORTH
@	AT	NA	NOT APPLICABLE
ACC	ACCESSIBLE	NIC	NOT IN CONTRACT
ACT	ACOUSTICAL CEILING TILE	NO	NUMBER
ADA	AMERICAN DISABILITIES ACT	NTS	NOT TO SCALE
ADJ	ADJUSTABLE, ADJUSTMENT	OC	ON CENTER
AFF	ABOVE FINISH FLOOR	OD	OUTSIDE DIAMETER, OUTSIDE DIMENSION
ALUM	ALUMINUM		
AP	ACCESS PANEL	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
APC	ACOUSTICAL PANEL CEILING		
APPROX	APPROXIMATE	OFF	OFFICE
ARCH	ARCHITECTURAL	OFOI	OWNER FURNISHED OWNER INSTALLED
ARF	ABOVE RAISED FLOOR	OH	OPPOSITE HAND
ASPH	ASPHALT	OPG	OPENING
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	OPP	OPPOSITE
		OSB	ORIENTED STRAND BOARD
ATC	ACOUSTICAL TILE CEILING	OVHD	OVERHEAD
AUTO	AUTOMATIC	PC	PRECAST
AV	AUDIO VISUAL	PERF	PERFORATED
AVG	AVERAGE	PERIM	PERIMETER
BD	BOARD	PERP	PERPENDICULAR
BLDG	BUILDING	PL	PROPERTY LINE
BLK	BLOCK(ING)	PLAM	PLASTIC LAMINATE
BM	BEAM	PLAS	PLASTER
BOS	BOTTOM OF SLAB, BOTTOM OF STEEL, BOTTOM OF STRUCTURE	PLUM	PLUMBING
		PLYWD	PLYWOOD
BRK	BRICK	PNL	PANEL
BSMT	BASEMENT	POL	POLISHED
BTM	BOTTOM	PR	PAIR
CAB	CABINET	PREFAB	PREFABRICATED
CCTV	CLOSED CIRCUIT TELEVISION	PROJ	PROJECT
CG	CORNER GUARD	PSF	POUNDS PER SQUARE FOOT
CJ	CONTROL JOINT	PSI	POUNDS PER SQUARE INCH
CL	CENTERLINE	PTD	PAINTED
CLG	CEILING	PTN	PARTITION
CLO	CLOSET	QT	QUARRY TILE
CLR	CLEAR, CLEARANCE	QTY	QUANTITY
CMU	CONCRETE MASONRY UNIT	R	RADIUS
CO	CLEAN OUT	RECEPT	RECEPTACLE
COL	COLUMN	REF	REFRIGERATOR
CONC	CONCRETE	REFL	REFLECTED, REFLECTIVE, REFECT
CONT	CONTINUOUS, CONTINUATION	REINF	REINFORCE, REINFORCING
COORD	COORDINATE	REQD	REQUIRED
CORR	CORRIDOR	RESIL	RESILIENT
CPT	CARPET	RET	RETURN
CRG	CLEAR RATED GLASS	REV	REVISE, REVISION
CT/CER	CERAMIC TILE/ CERAMIC	RM	ROOM
CTR	CENTER	RO	ROUGH OPENING
CUP	CENTRAL UTILITY PLANT	RTD	RATED
D	DEEP, DEPTH	RTG	RATING
DBL	DOUBLE	RWC	RAINWATER CONDUCTOR
DEPT	DEPARTMENT	RWL	RAINWATER LEADER
DET	DETAIL	S	SOUTH
DIA	DIAMETER	SAN	SANITARY
DIM	DIMENSION	SAN ST	SANITARY STACK
DISP	DISPENSER	SC	SOUND CONTROL
DIV	DIVISION, DIVIDE, DIVIDED	SCHED	SCHEDULE
DN	DOWN	SCR	SCREEN
DP	DAMPPROOF(ING)	SECT	SECTION
DR	DOOR	SERV	SERVICE
DRN	DRAIN	SF	SQUARE FEET, SQUARE FOOT
DS	DOWN SPOUT	SHT	SHEET
DW	DISH WASHER	SIM	SIMILAR
DWG	DRAWING	SK	SKETCH
E	EAST	SP	STANDPIPE
EA	EACH	SPEC	SPECIFICATION
EJ	EXPANSION JOINT	SPR	SPRINKLER
EL	ELEVATION	SQ	SQUARE
EIFS	EXTERIOR INSUL. FINISH SYSTEM	SS	STAINLESS STEAL
ELEC	ELECTRIC, ELECTRICAL	STG / STOR	STORAGE
ELEV	ELEVATOR	STL	STEEL
ENCL	ENCLOSURE	STRUCT	STRUCTURAL, STRUCTURE
EQ	EQUAL	SURF	SURFACE
EQUIP	EQUIPMENT	SUSP	SUSPEND, SUSPENDED
ETC	ET CETERA	SYMM	SYMMETRICAL
EX / EXIST	EXISTING	T	TILE
EXP	EXPANSION	T&B	TOP AND BOTTOM
EXT	EXTERIOR, EXTERNAL	T&G	TONGUE AND GROOVE
FD	FLOOR DRAIN	TEL	TELEPHONE
FE	FIRE EXTINGUISHER	TEMP	TEMPERED
FEC	FIRE EXTINGUISHER CABINET	TH	THRESHOLD
FF / FIN FLR	FINISH FLOOR	THK	THICK, THICKNESS
FHC	FIRE HOSE CABINET	THRU	THROUGH
FIN	FINISH, FINISHED	TO	TOP OF
FIXT	FIXTURE	TOS	TOP OF SLAB, TOP OF STEEL, TOP OF STRUCTURE
FLR	FLOOR		
FLSH/FLASH	FLASHING	TRTD	TREATED
FLUOR	FLUORESCENT	TV	TELEVISION
FOS	FACE OF STUDS	TYP	TYPICAL
FR(G)	FRAME(ING)	UL	UNDERWRITERS LABORATORY
FRP	FIBERGLASS REINFORCED POLYESTER	UNFIN	UNFINISHED
FT	FOOT, FEET	UON	UNLESS OTHERWISE NOTED
FUR	FURRING	V	VENT
FVC	FIRE VALVE CABINET	VAC	VACUUM
GA	GAGE, GAUGE	VCT	VINYL COMPOSTIE TILE
GALV	GALVANIZED	VENT	VENTILATE, VENTILATION
GC	GENERAL CONTRACTOR	VERT	VERTICAL
GL	GLASS	VEST	VESTIBULE
GM	GALVANIZED METAL	VIF	VERIFY IN FIELD
GR	GRADE	VOL	VOLUME
GYP	GYPSUM	VS	VERSUS
H	HIGH, HEIGHT	VWC	VINYL WALL COVERING
HB	HOSE BIB	W	WIDTH, WEST
H/C	HANDICAP	W/	WITH
HC	HOLLOW CORE	W/O	WITHOUT
HDW	HARDWARE	WC	WATER CLOSET
HID	HIGH INTENSITY DISCHARGE	WD	WOOD
HM	HOLLOW METAL	WG	WIRE GLASS
HOR	HORIZONTAL	WH	WATER HEATER
HT	HEIGHT	WK	WORK
HTR	HEATER	WP	WATERPROOF
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	WT	WEIGHT
		WxH	WIDTH x HEIGHT

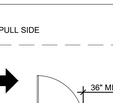
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER, INSIDE DIMENSION
IE	FOR EXAMPLE
IG	INSULATED GLASS
IN	INCH
INCD	INCANDESCENT
INCL	INCLUDED
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JC	JANITORS CLOSET
JT	JOINT
KO	KNOCKOUT
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LBS	POUNDS
LDG	LANDING
LIN	LINOLEUM
LP	LOW POINT
LT	LIGHT
MAINT	MAINTENANCE
MANUF, MFGR	MANUFACTURER
MAR	MARBLE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MC	MEDICINE CABINET
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY PLYWOOD
MECH	MECHANICAL
MEMB	MEMBRANE
MET, MTL	METAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MEZZ	MEZZANINE
MFGR	MANUFACTURER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS

4 TYPICAL MANEUVERING CLEARANCES & ACCESSIBLE ROUTES (ANSI 2017 A117.1)

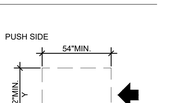
SCALE: 1/4"=1'-0"



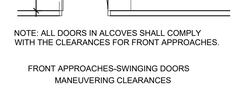
LATCH SIDE APPROACHES-SWINGING DOORS
MANEUVERING CLEARANCES



HINGE SIDE APPROACHES-SWINGING DOORS (A)

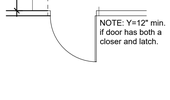


HINGE SIDE APPROACHES-SWINGING DOORS (B)

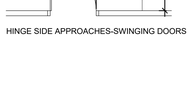


NOTE: ALL DOORS IN ALCOVES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES.

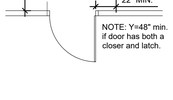
FRONT APPROACHES-SWINGING DOORS
MANEUVERING CLEARANCES



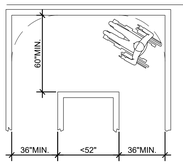
NOTE: Y=12" min. if door has both a closer and latch.



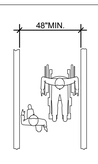
HINGE SIDE APPROACHES-SWINGING DOORS



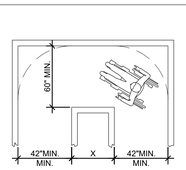
NOTE: Y=48" min. if door has both a closer and latch.



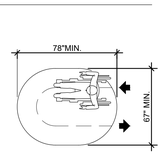
WIDTH OF ACCESSIBLE ROUTE FOR 90° TURN
ACCESSIBLE ROUTES



MINIMUM PASSAGE WIDTH FOR ONE WHEELCHAIR AND ONE AMBULATORY PERSON



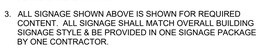
WIDTH OF ACCESSIBLE ROUTE FOR TURNS AROUND AN OBSTRUCTION



SPACE NEEDED FOR SMOOTH U-TURN IN A WHEELCHAIR

5 TYPICAL SIGNAGE DETAILS

TYPICAL ROOM SIGN AT NEW DOOR LOCATIONS

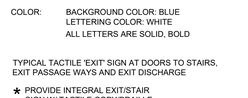


TYPICAL SIGNAGE NOTES:

1. ALL SIGNAGE (UNLESS OTHERWISE NOTED) IS TO BE ADA COMPLIANT FOR CONTENT, STYLE, & MOUNTING.
2. ALL INTERIOR SIGNAGE IS TO HAVE A CLASS A SURFACE FLAME SPREAD RATING.
3. ALL SIGNAGE SHOWN ABOVE IS SHOWN FOR REQUIRED CONTENT. ALL SIGNAGE SHALL MATCH OVERALL BUILDING SIGNAGE STYLE & BE PROVIDED IN ONE SIGNAGE PACKAGE BY ONE CONTRACTOR.
4. TEXT & SYMBOL COLOR MUST BE HIGH CONTRAST BACKGROUND COLORS AS PER ADA GUIDELINES.
5. ALL INTERIOR SIGNAGE SHALL NOT BE EASILY REMOVABLE FROM WALL & MUST BE CLEANABLE.
6. PROVIDE SHOP DRAWINGS OF ALL SIGNAGE FOR ARCHITECTS REVIEW.
7. SEE FLOOR PLAN FOR NAME OF EACH ROOM. COORDINATE NAMES w/ OWNER.

ADA EXIT SIGN

SCALE: N.T.S.



CODE: 2006 ICC - 1011.3 / ANSI A117.1 - 2003

SIZE: 8" x 6" w/ COPY AND BRAILLE

COLOR: BACKGROUND COLOR: BLUE
LETTERING COLOR: WHITE
ALL LETTERS ARE SOLID, BOLD

TYPICAL TACTILE 'EXIT' SIGN AT DOORS TO STAIRS, EXIT PASSAGE WAYS AND EXIT DISCHARGE

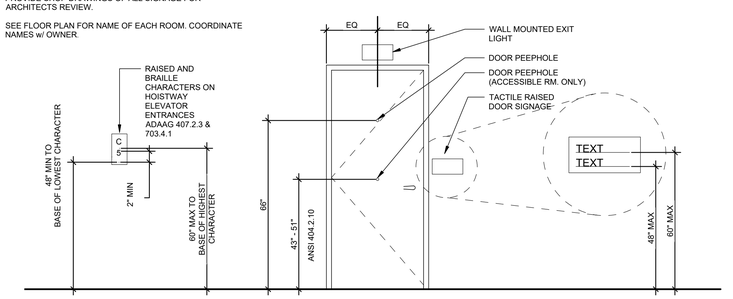
* PROVIDE INTEGRAL EXIT/STAIR SIGN W/ TACTILE COPY/BRAILLE

FIRE EXTINGUISHER SIGN

SCALE: N.T.S.

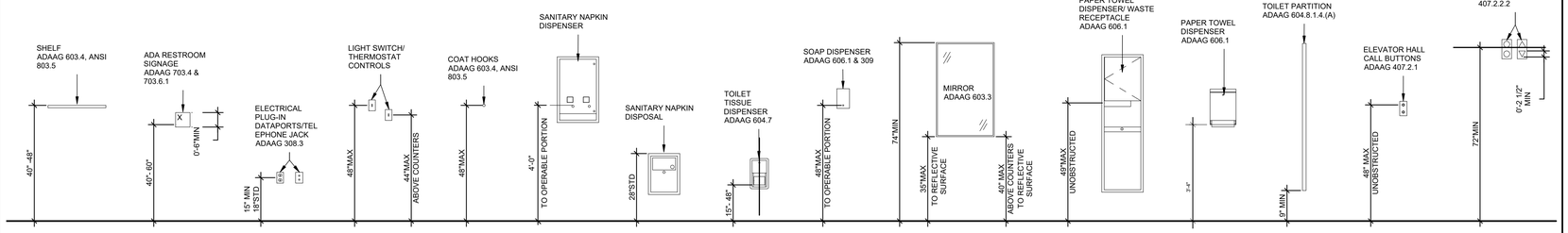
COLOR: RED ON WHITE COLOR

ALL FIRE EXTINGUISHER LOCATIONS (TYP.)



6 TYPICAL ACCESSORY MOUNTING HEIGHTS

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



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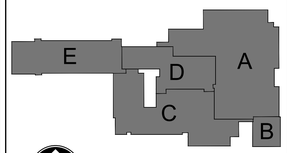

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

ADA COMPLIANCE, ABBREVIATIONS & SYMBOLS

DRAWN BY:	CHECKED BY:
A.L.	C.Z.
DATE:	PROJECT NO:
11/10/2025	2025-005

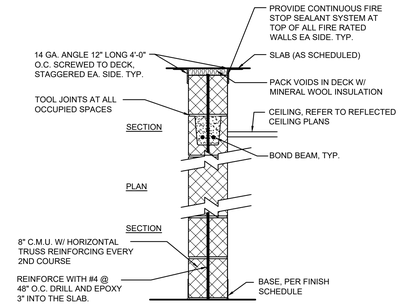
DRAWING NO:

G-002

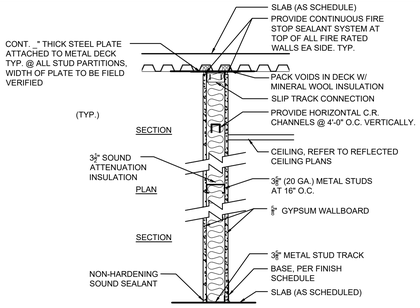
CAD FILE: 5005-G-002.DWG PLOT DATE: 11/10/2025

J:\2025-005 Afton CSD 2024 Capital Project__CAD\arch\5005-G-002.dwg, 11/10/2025 4:37:45 PM, _DWG To PDF.pc3

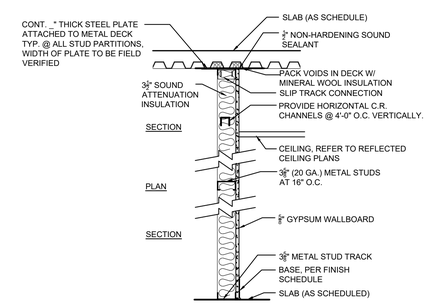
WALL TYPES



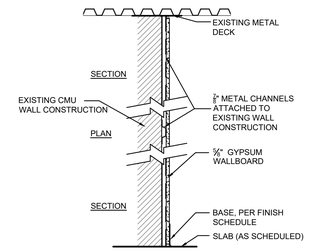
TYPE 1 — 7⅞" C.M.U. PARTITION	FIRE RATING	DESIGN NO.	DESIGN STC
1 — 8" LIGHT WEIGHT BLOCK PARTITION.	-	-	-
1A — 8" LIGHT WEIGHT BLOCK PARTITION.	2 HOUR	U.L. U905.	-
1B — 8" LIGHT WEIGHT BLOCK PARTITION.	1 HOUR	U.L. U905.	-
1C — 4" LIGHT WEIGHT BLOCK AROUND COLUMN.	-	-	-
1D — 12" LIGHT WEIGHT BLOCK PARTITION.	2 HOUR	U.L. U905.	-



TYPE 2 — 4⅞" PARTITION	FIRE RATING	DESIGN NO.	DESIGN STC
2 — PARTITION WITH 3⅝" METAL STUD AND ⅝" DRYWALL EACH SIDE w/ 3½" SOUND ATTENUATION INSULATION DRYWALL FROM FINISHED FLOOR TO DECK.	-	-	-
2A — PARTITION WITH 3⅝" METAL STUD AND ⅝" DRYWALL EACH SIDE WITH NO INSULATION. DRYWALL FROM FINISHED FLOOR TO DECK.	-	-	-
2B — PARTITION WITH 3⅝" METAL STUD AND ⅝" DRYWALL EACH SIDE WITH INSULATION. RUN DRYWALL FROM FINISHED FLOOR TO DECK.	1 HOUR	U.L. U465.	

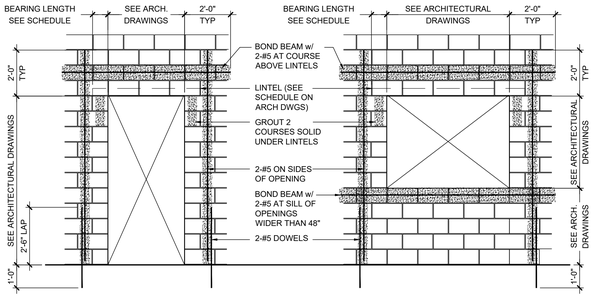


TYPE 3 — 4½" PARTITION	FIRE RATING	DESIGN NO.	DESIGN STC
3 — PARTITION W/ NO INSULATION. RUN GYPSUM BOARD FROM FINISHED FLOOR 6" ABOVE CEILING.	-	-	-
3A — PARTITION W/ INSULATION. RUN GYPSUM BOARD FROM FINISHED FLOOR TO DECK ABOVE.	-	-	-



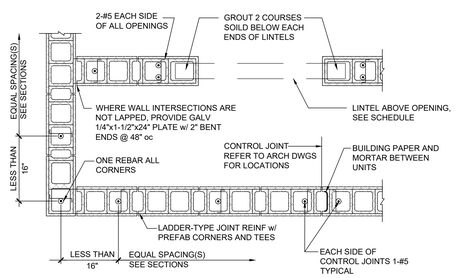
TYPE 4 — 1½" PARTITION	FIRE RATING	DESIGN NO.	DESIGN STC
4 — ⅞" METAL CHANNEL AND ⅝" DRYWALL. DRYWALL TO EXTEND FROM FINISHED FLOOR TO DECK.	-	-	-

NOTE: ALL GYPSUM WALLBOARD SHALL BE IMPACT RESISTANT TYPE GYPSUM WALLBOARD.



TYPICAL MASONRY WALL OPENING DETAIL

NOT TO SCALE (32)



TYPICAL MASONRY WALL REINFG. SCHEMATIC

NOT TO SCALE (16)

1. USE REBAR POSITIONERS FOR ALL BARS
2. ALL REBAR TO BE SET IN 2000 PSI GROUT

GENERAL NOTES (MASONRY)

1. MASONRY WALLS HAVE BEEN DESIGNED AND SHALL BE CONSTRUCTED TO HAVE A STRENGTH OF f'm = 1500 PSI.
2. CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT (130 PCF) ASTM C90 WITH AN AVERAGE NET COMPRESSIVE STRENGTH OF 1900 PSI. MINIMUM FACE SHELL THICKNESS FOR 12" CMU SHALL BE 1.25".
3. PROVIDE SPECIAL SHAPES (CORNER, END, CONTROL JOINT, RADIUSED EDGE, DOUBLE OPEN END, ETC.) AS DETAILED ON DRAWINGS.
4. MORTAR SHALL BE ASTM C270. ALL CMU MASONRY SHALL BE LAID IN A FULL BED OF MORTAR (INCLUDING ALL WEBS)

ALL FOUNDATION AND RETAINING WALLS	TYPE M	2500 PSI
ALL ABOVE GRADE EXTERIOR WALLS	TYPE S	1800 PSI
ABOVE GRADE VENEER	TYPE N	750 PSI

5. GROUT SHALL CONFORM TO ASTM C476. GROUT SHALL HAVE A COMPRESSIVE STRENGTH OF 2000 PSI AND CONTAIN PEA GRAVEL AGGREGATE. GROUTING OF MASONRY w/ VERTICAL REINFORCEMENT SHALL BE PERFORMED IN 48" LIFT HEIGHTS (MAXIMUM) UNLESS CONTRACTOR CAN DEMONSTRATE EXPERIENCE WITH HIGH-LIFT GROUTING. HIGH LIFT GROUTING WOULD INVOLVE CREATING OUTLET HOLES AT THE BOTTOM OF EVERY VERTICAL GROUT COLUMN AND PUMPING GROUT CONTAINING "GLENIUM" FROM TOP OF WALL UNTIL GROUT FLOWS OUT OF BOTTOM OUTLET HOLE. HIGH LIFT MUST BE CONTINUOUSLY INSPECTED.
6. REFER TO ARCHITECTURAL ELEVATIONS FOR SURFACE TEXTURE AND COLOR OF UNITS AND MORTAR.
7. VERTICAL REINFORCING SHALL BE ASTM A615 GRADE 60 NEW REINFORCING. VERTICAL REINFORCING TO BE WELDED SHALL BE ASTM A706. USE 9 GAUGE GALVANIZED REBAR POSITIONERS BY WIRE BOND OR EQUAL IN EVERY FIFTH COURSE. GROUT ALL CELLS WITH VERTICAL REINFORCEMENT SOLID. LAP BARS 30". PROVIDE DOWELS INTO FOOTINGS FOR ALL VERTICAL BARS IN NEW CONSTRUCTION AND DRILL AND EPOXY 12" INTO EXISTING CONSTRUCTION.
8. HORIZONTAL REINFORCEMENT SHALLBE 9 GAUGE HOT-DIP GALVANIZED LADDER-TYPE CONFORMING TO ASTM A951, AT 16" O.C. ABOVE GRADE. PROVIDE PREFABRICATED TEES AND CORNERS.
9. BOND BEAMS SHALL BE CONTINUOUS AND SHALL HAVE CORNER BARS AT INTERSECTIONS. REFER TO STRUCTURAL AND ARCHITECTURAL SECTIONS FOR LOCATIONS.
10. REFER TO ARCHITECTURAL DRAWINGS FOR LINTEL SCHEDULE.

LINTEL SCHEDULES

C.M.U. LINTELS

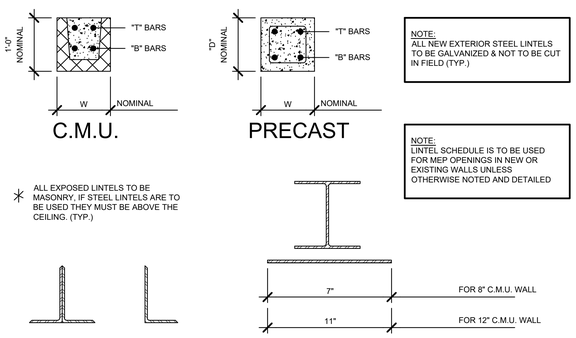
M.O.	W (IN.)	D (IN.)	"B" BARS	"T" BARS	MIN. BEARING EACH END (IN.)
3'-0"	6	8	1-#3	-	8
3'-0"	8	8	2-#3	-	8
3'-0"	12	8	2-#4	-	8
4'-0"	6	8	1-#3	-	8
4'-0"	8	8	2-#3	-	8
4'-0"	12	8	2-#4	-	8
5'-0"	6	8	1-#5	-	8
5'-0"	8	8	2-#4	-	8
5'-0"	12	8	2-#5	-	8
6'-0"	6	16	1-#4	-	8
6'-0"	8	8	2-#6	-	8
6'-0"	12	8	2-#7	-	8
6'-0"	12	16	2-#4	-	8
7'-0"	6	16	1-#4	-	8
7'-0"	8	16	2-#4	-	8
7'-0"	12	16	2-#5	-	8
8'-0"	6	16	1-#5	-	8
8'-0"	8	16	2-#5	-	8
8'-0"	12	16	2-#6	-	8

PRECAST LINTELS

M.O.	W (IN.)	D (IN.)	"B" BARS	"T" BARS	STIRRUPS	MIN. BEARING EACH END (IN.)
UP TO 4'-0"	8	8	2-#4	2-#4	-	8
UP TO 4'-0"	12	8	2-#4	2-#4	-	8
4'-0" TO 5'-0"	8	8	2-#4	2-#4	-	8
4'-0" TO 5'-0"	12	8	2-#4	2-#4	-	8
5'-0" TO 6'-0"	8	8	2-#4	2-#4	-	8
5'-0" TO 6'-0"	12	8	2-#5	2-#5	-	8
6'-0" TO 7'-0"	8	8	2-#4	2-#4	-	8
6'-0" TO 7'-0"	12	8	2-#5	2-#5	-	8
7'-0" TO 8'-0"	8	16	2-#5	2-#5	-	8
7'-0" TO 8'-0"	12	16	3-#5	3-#5	-	8
8'-0" TO 9'-0"	8	16	2-#5	2-#5	-	10
8'-0" TO 9'-0"	12	16	3-#5	3-#5	-	10
9'-0" TO 10'-0"	8	16	2-#6	2-#6	#3@6 1/2"	10
9'-0" TO 10'-0"	12	16	3-#6	3-#6	-	10
10'-0" TO 11'-0"	8	16	2-#6	2-#6	#3@6 1/2"	12
10'-0" TO 11'-0"	12	16	3-#6	3-#6	-	12
11'-0" TO 12'-0"	8	16	2-#6	2-#6	#3@6 1/2"	12
11'-0" TO 12'-0"	12	16	3-#6	3-#6	-	12

STEEL LINTELS

MASONRY OPN'G	8" C.M.U.	12" C.M.U.	MIN. BRG. EA. END
UP TO 3'-6"	2LS 3 1/2x3 1/2x5/16	3LS 3 1/2x3 1/2x5/16	8"
3'-7" TO 4'-6"	2LS 3 1/2x3 1/2x5/16	3LS 3 1/2x3 1/2x5/16	8"
4'-7" TO 5'-6"	2LS 5x3 1/2x5/16 LLV	3LS 5x3 1/2x5/16 LLV	8"
5'-7" TO 6'-6"	2LS 6x3 1/2x5/16 LLV	3LS 6x3 1/2x5/16 LLV	8"
6'-7" TO 7'-6"	2LS 6x3 1/2x3/8" LLV	3LS 6x3 1/2x3/8" LLV	8"
7'-7" TO 8'-6"	W 8x10+5/16 BOTT. PL.	W 8x10+5/16 BOTT. PL.	8"
8'-7" TO 9'-6"	W 8x10+5/16 BOTT. PL.	W 8x10+5/16 BOTT. PL.	10"
9'-7" TO 10'-6"	W 8x13+5/16 BOTT. PL.	W 8x13+5/16 BOTT. PL.	10"
10'-7" TO 11'-6"	W 8x13+5/16 BOTT. PL.	W 8x13+5/16 BOTT. PL.	12"
11'-7" TO 12'-6"	W 8x13+5/16 BOTT. PL.	W 8x15+5/16 BOTT. PL.	12"
12'-7" TO 13'-6"	W 8x13+5/16 BOTT. PL.	W 8x15+5/16 BOTT. PL.	13"
13'-7" TO 14'-6"	W 10x15+5/16 BOTT. PL.	W 10x19+5/16 BOTT. PL.	14"



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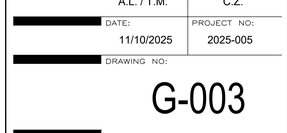

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

WALL TYPES, DETAILS, AND LINTEL SCHEDULE

DRAWN BY:	CHECKED BY:
A.L. / T.M.	C.Z.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

G-003

CAD FILE: 5005-G-003.DWG PLOT DATE: 11/10/2025

CODE COMPLIANCE AND LIFE SAFETY LEGEND

- INDICATES 1 HOUR BARRIER
- INDICATES 2 HOUR BARRIER
- INDICATES 2 HOUR WALL
- INDICATES AREA OF ALTERATION
- INDICATES COMMON PATH OF EGRESS
- MRP 169' — MOST REMOTE POINT TO EGRESS ACCESS WITH TOTAL LENGTH OF TRAVEL
- EXIT — BUILDING EXIT
- EXISTING EXIT SIGNS
- R — EXISTING RESCUE WINDOW LOCATIONS
- FE — EXISTING FIRE EXTINGUISHER LOCATIONS
- DF — EXISTING DRINKING FOUNTAIN LOCATIONS
- EXISTING ACCESSIBLE ENTRANCE

ROOM OCCUPANCY TAG

	OCCUPANCY
	AREA SQUARE FOOTAGE GROSS OR NET DEPENDING ON OCCUPANCY TYPE
E	200 SF
10	20 OCC
	OCCUPANT LOAD
	OCCUPANT LOAD FACTOR

CODE REVIEW

AFTON CENTRAL SCHOOL DISTRICT
MAIN BLDG / HIGH SCHOOL / MIDDLE SCHOOL / ELEMENTARY SCHOOL
29 ACADEMY STREET - AFTON, NEW YORK 13730

APPLICABLE CODES:
2020 BUILDING CODE OF NEW YORK STATE
2020 NYS EXISTING BUILDING CODE
2020 FIRE CODE OF NYS
2020 NYS PLUMBING CODE
2020 NYS MECHANICAL CODE
2020 NYS ENERGY CODE
2020 NYS ELECTRICAL CODE
2020 NYS ACCESSIBILITY CODE
2010 ADA STANDARDS
2022 NYSED MANUAL OF PLANNING STANDARDS
*ALL REFERENCED STANDARDS

BUILDING USE GROUP:
E - Educational

EXISTING CONSTRUCTION TYPE:
THE EXISTING FACILITY WAS CONSTRUCTED OVER MANY YEARS.
- ORIGINAL BUILDING AREA #1(1908 - TYPE 3B)
- BUILDING AREA #2 (1955 W/ 1967 ADDITION - TYPE 2B)
- BUILDING AREA #3 (1967 ADDITION - TYPE 2B)
- BUILDING AREA #4 (1994 ADDITION - TYPE 2B)
- BUILDING AREA #5 (2002 ADDITION - TYPE 2A)
- BUILDING AREA #6 (2020 ADDITION - TYPE 2A)

ALL BUILDING AREAS ARE SEPARATED WITH RATED FIRE WALLS (1 HOUR BARRIERS, 2 HOUR BARRIERS, AND 2 HOUR WALLS).

CONSTRUCTION TYPE:
Type 2B Non-Combustible Construction
EXISTING BUILDING CODE:
Alteration Level 2 - Work area is less than 50% of the Existing Building Area

AUTOMATIC SPRINKLER SYSTEM:
- Existing building - not sprinklered.
- Per Section 803.2.2 Exception #2 of the Existing Building Code, the work area is not required to be sprinklered when the work area is less than 50% of the Floor Area.

EXISTING BUILDING AREA AND HEIGHT:
GROUND FLOOR - 72,042 S.F.
FIRST FLOOR - 104,030 S.F.
SECOND FLOOR - 41,173 S.F.
THIRD FLOOR - 5,185 S.F.
BUILDING HEIGHT, 3-STORY

WORK AREAS
Media Center - Level 2 Alteration, 962 s.f.
Computer Lab - Level 2 Alteration, 382 s.f.
STEAM Lab - Level 2 Alteration, 1,102 s.f.
Engraving Room - Level 2 Alteration, 91 s.f.
Agriculture Lab/ CTE - Level 2 Alteration, 2,892 s.f.
Cafetorium - Level 1 Alteration, 3,848 s.f.
Gymnasium - Level 1 Alteration, 6,630 s.f.
Classroom (133) - Level 2 Alteration, 860 s.f.
Chorus Room - Level 2 Alteration, 1,653 s.f.
I.T. Center - Level 2 Alteration, 829 s.f.
eSports - Level 1 Alteration, 398 s.f.
Stairs - Level 1 Alteration

FIRE RESISTANCE RATING (TABLE 601):
Type 2A Fire Resistive Construction At Existing 2002 Work Area

Building Element	Fire Resistance Rating	U.L. Design
Primary Structural Frame	1 Hr. (Columns) (2Hr req'd at Labs)	X829
Bearing Walls - Exterior	1 Hr. U905	
Bearing Walls - Interior	1 Hr.U905	
Floor Construction and Secondary Members	1 Hr. (2 Hr. req'd at labs)	D916
Roof Construction and Secondary Members	0 Hr. Over 20 ft. 1 Hr.	D902
Boiler / Mechanical Room	2 Hr.	U905
Electrical Room	1 Hr.	U905
Exit Access Corridors	1 Hr. (w/out sprinklers)	U905
Shafts - Less than 4 stories	1 Hr.	
Boiler Rooms over 15psi and 10 Horsepower	2 Hr.	
Storage Rooms over 100 s.f.	1 Hr.	
Shops - Agriculture Lab (Floor & Walls)	2 Hr.	
Shops - Welding Room (1 Adjacent Accessory Use Classroom per NYSED-MPS)	2 Hr.	
STEAM Lab	1 Hr.	

MEANS OF EGRESS
Ground Floor
Occupant Load: 2,489 occupants
2,489 occ. x .2 (doors) = 497.8" exit width required.
Means of Egress provided - (5) 72" Doors, (1) 108" Door, and (3) 144" Doors.
Total exit width provided = 900"

First Floor
Occupant Load: 2,472 occupants
2,472 occ. x .2 (doors) = 494.4" exit width required.
Means of Egress provided - (3) 36" Doors, (5) 72" Doors, (3) 96" Doors, and (1) 108" Door.
Total exit width provided = 864"

Second Floor
Occupant Load: 832 occupants
832 occ. x .2 (doors) = 166.4" exit width required.
Means of Egress provided - (12) 36" Doors and (2) 40" Doors.
Total exit width provided = 512"

Third Floor
Occupant Load: 12 occupants
832 occ. x .3 (stairs) = 3.6" exit width required.

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE
E Occupancy - 200 ft. without sprinklers.

TABLE 1006.2.1 COMMON PATH OF EGRESS TRAVEL DISTANCE
E Occupancy - 75 ft. without sprinklers.

805.6 DEAD END CORRIDOR (EXISTING BUILDING CODE)
Dead End Corridor in any work area shall not exceed 35 ft.

DEAD END CORRIDOR (NYSED MPS-MOST RESTRICTIVE)
S107-1, C CORRIDORS:
Corridor pockets and dead end corridors shall be restricted to a depth of 1 and 1/2 times the width of the pocket, or to 1 and 1/2 times the width of the corridor, whichever is less.
PLUMBING FIXTURE CALCULATION
ALTERATION LEVEL 2

809.1 Minimum Fixtures: The occupant load for the Renovated work areas has not increased the existing occupant load and is less than 20% of the story. (No additional plumbing fixtures are required).

2020 ENERGY CONSERVATION CODE

Afton NY, Chenago County - Climate Zone 6A

ROOF
Insulation entirely above roof deck: R-30 c.i.

WALLS
Mass Wall - Masonry: R-13.3 c.i.
Metal Framed: R-13 + R 7.5 c.i. (U - 0.064)

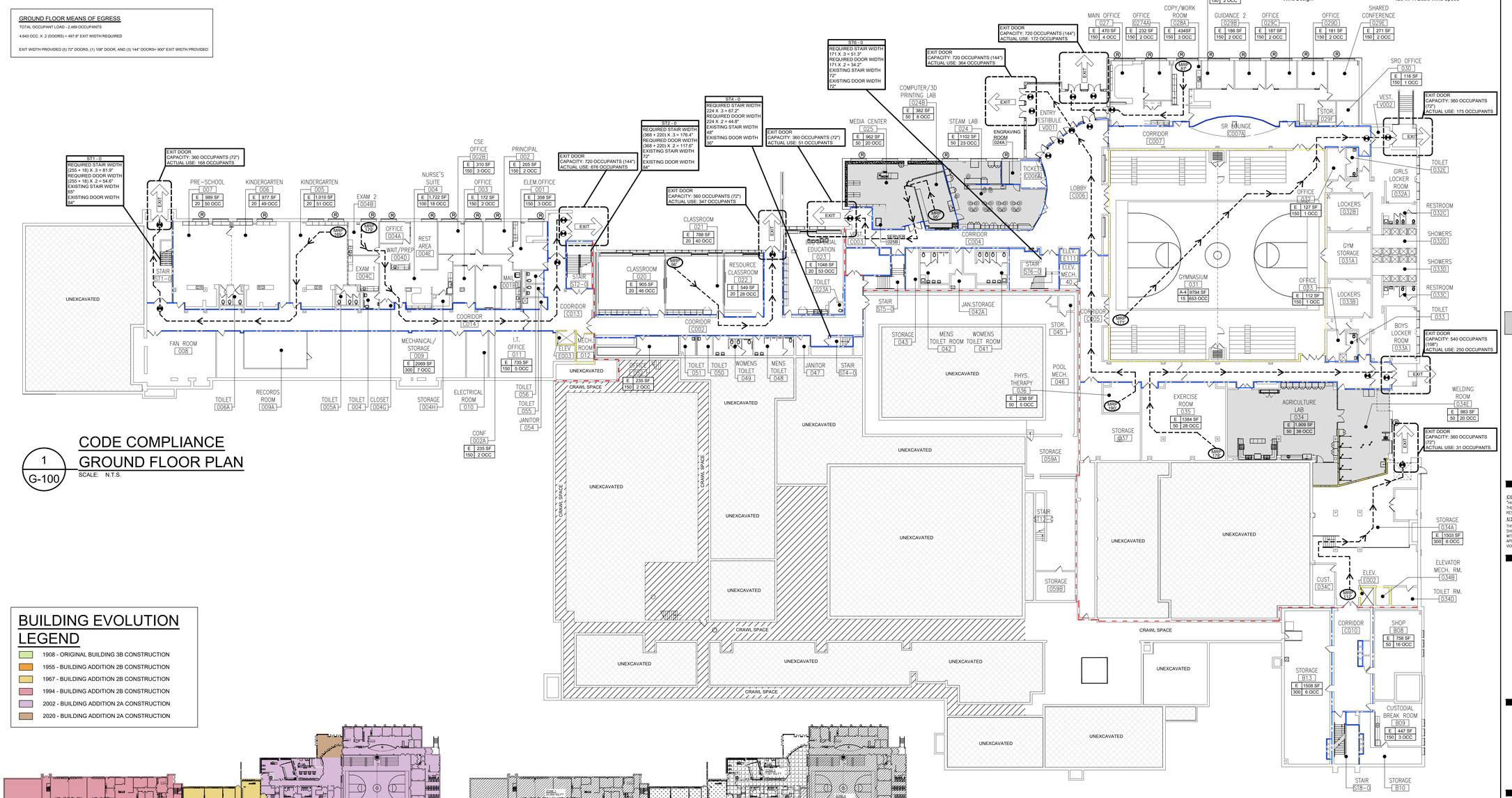
SLAB ON GRADE FLOORS
Unheated Slab: R-10 for 24" below

OPAQUE DOORS: R-4.75, U-0.37

FIXED GLASS /STOREFRONT: U Value: 0.36
Operable Windows: U Value: 0.43
Storefront Entrance Doors: U Value: 0.77

SEISMIC DESIGN
Exposure Category: C
Risk Category: III
Seismic Design Category: B
Seismic Importance Factor: 1.25
Wind Design: 120 MPH Basic Wind Speed

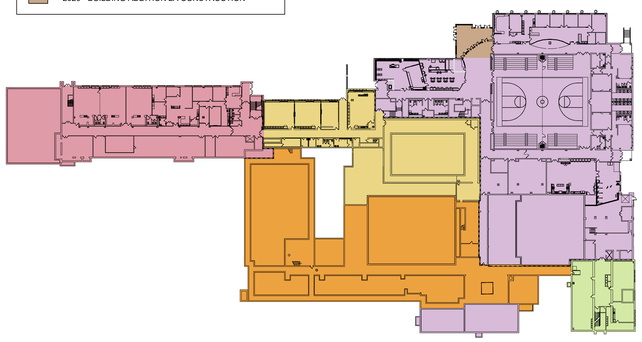
GROUND FLOOR MEANS OF EGRESS
TOTAL OCCUPANT LOAD - 2,489 OCCUPANTS
4,643 OCC. X .2 (DOORS) = 497.8" EXIT WIDTH REQUIRED
EXIT WIDTH PROVIDED (5) 72" DOORS, (1) 108" DOOR, AND (3) 144" DOORS= 900" EXIT WIDTH PROVIDED



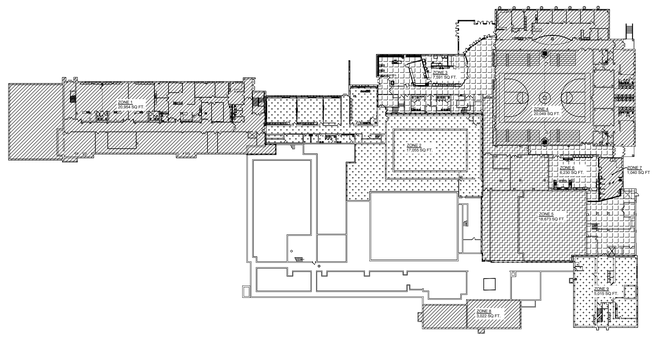
1 / G-100 CODE COMPLIANCE GROUND FLOOR PLAN
SCALE: N.T.S.

BUILDING EVOLUTION LEGEND

- 1908 - ORIGINAL BUILDING 3B CONSTRUCTION
- 1955 - BUILDING ADDITION 2B CONSTRUCTION
- 1967 - BUILDING ADDITION 2B CONSTRUCTION
- 1994 - BUILDING ADDITION 2B CONSTRUCTION
- 2002 - BUILDING ADDITION 2A CONSTRUCTION
- 2020 - BUILDING ADDITION 2A CONSTRUCTION



BUILDING EVOLUTION KEY PLAN



SMOKE ZONE PLAN

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102 Highland Avenue
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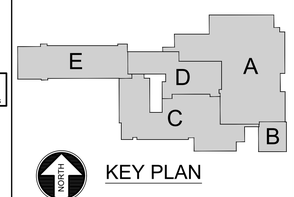

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

GROUND FLOOR CODE COMPLIANCE PLAN

DRAWN BY:	CHECKED BY:
R.J.C. / A.L. / T.M.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

G-100

CAD FILE: 5005-G-100.DWG PLOT DATE: 11/10/2025

J:\2025-005 Afton CSD 2024 Capital Project__CAD\arch\5005-G-100.DWG, 11/10/2025 4:38:20 PM, _DWG To PDF.pc3

CODE COMPLIANCE AND LIFE SAFETY LEGEND

- INDICATES 1 HOUR BARRIER
- INDICATES 2 HOUR BARRIER
- INDICATES 2 HOUR WALL
- INDICATES AREA OF ALTERATION
- INDICATES COMMON PATH OF EGRESS
- MRP 169' — MOST REMOTE POINT TO EGRESS ACCESS WITH TOTAL LENGTH OF TRAVEL
- EXIT — BUILDING EXIT
- EXISTING EXIT SIGNS
- (R) — EXISTING RESCUE WINDOW LOCATIONS
- (FE) — EXISTING FIRE EXTINGUISHER LOCATIONS
- DF — EXISTING DRINKING FOUNTAIN LOCATIONS
- EXISTING ACCESSIBLE ENTRANCE

ROOM OCCUPANCY TAG

E	200 SF
10	20 OCC

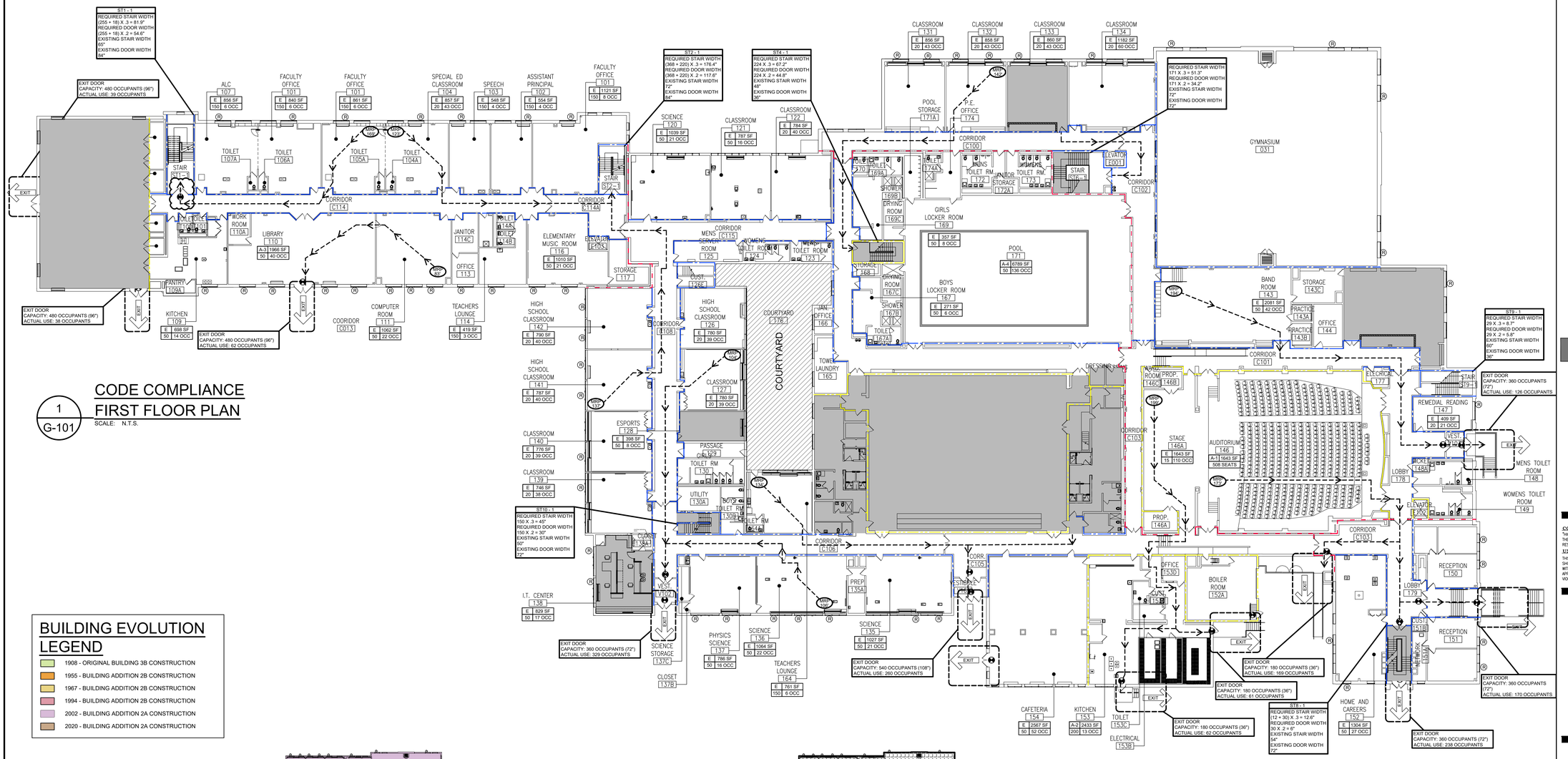
- OCCUPANCY
- AREA SQUARE FOOTAGE GROSS OR NET DEPENDING ON OCCUPANCY TYPE
- OCCUPANT LOAD
- OCCUPANT LOAD FACTOR

FIRST FLOOR MEANS OF EGRESS

TOTAL OCCUPANT LOAD - 2,472 OCCUPANTS

2,472 OCC. X .2 (DOORS) = 494.4" EXIT WIDTH REQUIRED

EXIT WIDTH PROVIDED (3) 36" DOORS, (5) 72" DOORS, (3) 96" DOORS, AND (1) 108" DOOR = 864" EXIT WIDTH PROVIDED


ST1 - 1
REQUIRED STAIR WIDTH (255 + 18) X .3 = 81.9"
REQUIRED DOOR WIDTH (255 + 18) X .2 = 54.6"
EXISTING STAIR WIDTH 65"
EXISTING DOOR WIDTH 64"
EXIT DOOR CAPACITY: 480 OCCUPANTS (96") ACTUAL USE: 39 OCCUPANTS
ST2 - 1
REQUIRED STAIR WIDTH (368 + 220) X .3 = 176.4"
REQUIRED DOOR WIDTH (368 + 220) X .2 = 117.6"
EXISTING STAIR WIDTH 72"
EXISTING DOOR WIDTH 64"
ST4 - 1
REQUIRED STAIR WIDTH 224 X .3 = 67.2"
REQUIRED DOOR WIDTH 224 X .2 = 44.8"
EXISTING STAIR WIDTH 48"
EXISTING DOOR WIDTH 36"
REQUIRED STAIR WIDTH 171 X .3 = 51.3"
REQUIRED DOOR WIDTH 171 X .2 = 34.2"
EXISTING STAIR WIDTH 72"
EXISTING DOOR WIDTH 72"
ST9 - 1
REQUIRED STAIR WIDTH 29 X .3 = 8.7"
REQUIRED DOOR WIDTH 29 X .2 = 5.8"
EXISTING STAIR WIDTH 60"
EXISTING DOOR WIDTH 58"
ST10 - 1
REQUIRED STAIR WIDTH 150 X .3 = 45"
REQUIRED DOOR WIDTH 150 X .2 = 30"
EXISTING STAIR WIDTH 55"
EXISTING DOOR WIDTH 72"
ST8 - 1
REQUIRED STAIR WIDTH (12 + 30) X .3 = 12.6"
REQUIRED DOOR WIDTH 30 X .2 = 6"
EXISTING STAIR WIDTH 54"
EXISTING DOOR WIDTH 72"
EXIT DOOR CAPACITY: 480 OCCUPANTS (96") ACTUAL USE: 38 OCCUPANTS
EXIT DOOR CAPACITY: 480 OCCUPANTS (96") ACTUAL USE: 62 OCCUPANTS
EXIT DOOR CAPACITY: 360 OCCUPANTS (72") ACTUAL USE: 329 OCCUPANTS
EXIT DOOR CAPACITY: 540 OCCUPANTS (108") ACTUAL USE: 260 OCCUPANTS
EXIT DOOR CAPACITY: 180 OCCUPANTS (36") ACTUAL USE: 169 OCCUPANTS
EXIT DOOR CAPACITY: 180 OCCUPANTS (36") ACTUAL USE: 61 OCCUPANTS
EXIT DOOR CAPACITY: 180 OCCUPANTS (36") ACTUAL USE: 62 OCCUPANTS
EXIT DOOR CAPACITY: 360 OCCUPANTS (72") ACTUAL USE: 126 OCCUPANTS
EXIT DOOR CAPACITY: 360 OCCUPANTS (72") ACTUAL USE: 170 OCCUPANTS
EXIT DOOR CAPACITY: 360 OCCUPANTS (72") ACTUAL USE: 238 OCCUPANTS
ALC 107 E 856 SF 150 6 OCC
FACULTY OFFICE 101 E 840 SF 150 6 OCC
FACULTY OFFICE 101 E 861 SF 150 6 OCC
SPECIAL ED CLASSROOM 104 E 857 SF 20 43 OCC
SPEECH 103 E 548 SF 150 4 OCC
ASSISTANT PRINCIPAL 102 E 554 SF 150 4 OCC
FACULTY OFFICE 101 E 1121 SF 150 8 OCC
SCIENCE 120 E 1039 SF 50 21 OCC
CLASSROOM 121 E 787 SF 50 16 OCC
CLASSROOM 122 E 784 SF 20 40 OCC
CLASSROOM 131 E 856 SF 20 43 OCC
CLASSROOM 132 E 858 SF 20 43 OCC
CLASSROOM 133 E 860 SF 20 43 OCC
CLASSROOM 134 E 1182 SF 20 60 OCC
TOILET 107A
TOILET 106A
TOILET 105A
TOILET 104A
TOILET 114A
TOILET 114B
TOILET 124
TOILET 123
TOILET 174A
TOILET 169A
TOILET 173
TOILET 167A
TOILET 153C
MENS 172
WOMENS 173
JANITOR STORAGE 172A
STAIR ST1 - 1
STAIR ST2 - 1
STAIR ST4 - 1
STAIR ST9 - 1
STAIR ST8 - 1
ELEVATOR E105
ELEVATOR E001
ELEVATOR E101
ELEVATOR E102
ELEVATOR E103
ELEVATOR E104
CORRIDOR C114
CORRIDOR C114A
CORRIDOR C115
CORRIDOR C100
CORRIDOR C102
CORRIDOR C101
CORRIDOR C103
CORRIDOR C108
CORRIDOR C106
CORR. C105
CORRIDOR C013
CORRIDOR C111
CORRIDOR C112
CORRIDOR C113
CORRIDOR C104
CORRIDOR C107
CORRIDOR C109
CORRIDOR C110
CORRIDOR C116
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CORRIDOR C127
CORRIDOR C128
CORRIDOR C129
CORRIDOR C130
CORRIDOR C131
CORRIDOR C132
CORRIDOR C133
CORRIDOR C134
CORRIDOR C135
CORRIDOR

CODE COMPLIANCE AND LIFE SAFETY LEGEND

- INDICATES 1 HOUR BARRIER
- INDICATES 2 HOUR BARRIER
- INDICATES 2 HOUR WALL
- INDICATES AREA OF ALTERATION
- INDICATES COMMON PATH OF EGRESS
- MRP 169' — MOST REMOTE POINT TO EGRESS ACCESS WITH TOTAL LENGTH OF TRAVEL
- EXIT — BUILDING EXIT
- EXISTING EXIT SIGNS
- (R) — EXISTING RESCUE WINDOW LOCATIONS
- (FE) — EXISTING FIRE EXTINGUISHER LOCATIONS
- DF — EXISTING DRINKING FUNTAIN LOCATIONS
- EXISTING ACCESSIBLE ENTRANCE

ROOM OCCUPANCY TAG

E	200 SF
10	20 OCC

- OCCUPANCY
- AREA SQUARE FOOTAGE GROSS OR NET DEPENDING ON OCCUPANCY TYPE
- OCCUPANT LOAD
- OCCUPANT LOAD FACTOR

SECOND FLOOR MEANS OF EGRESS

TOTAL OCCUPANT LOAD - 832 OCCUPANTS

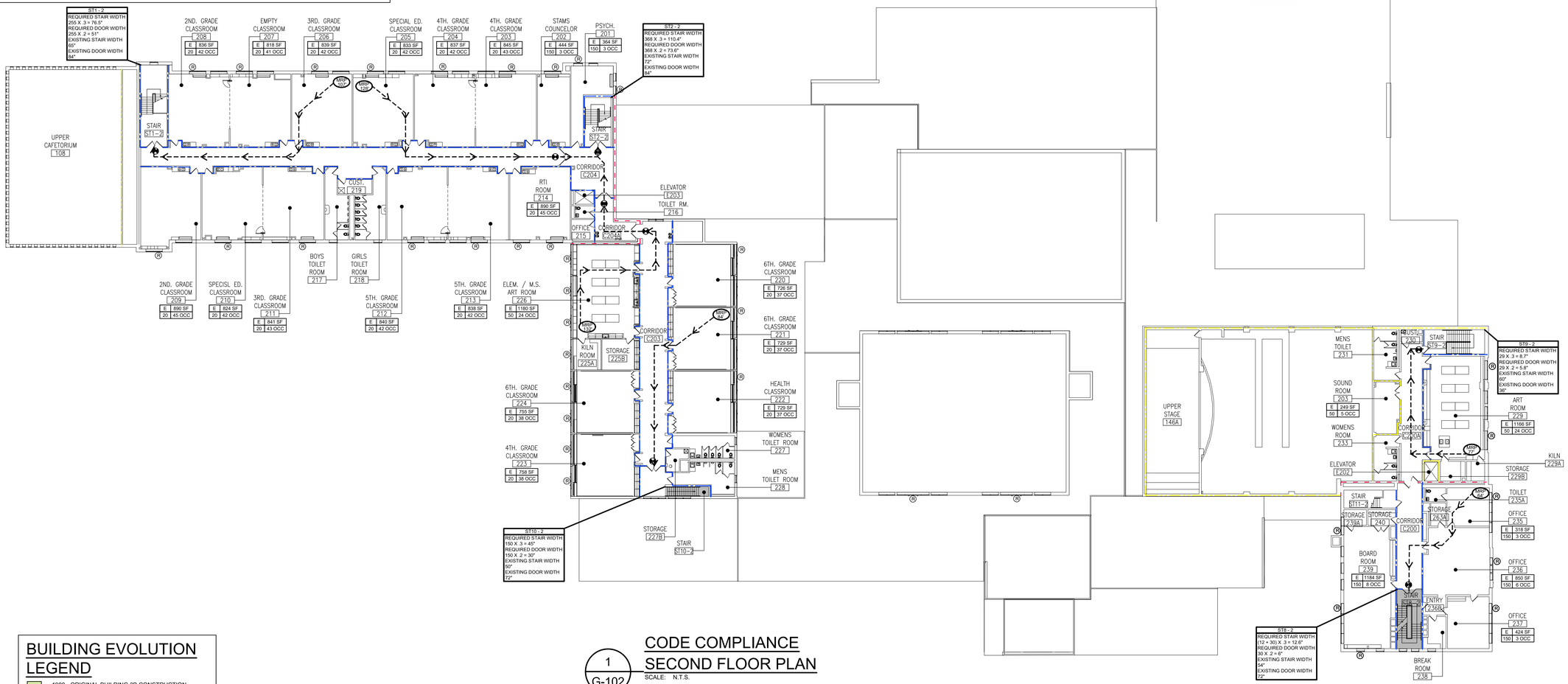
832 OCC. X .2 (DOORS) = 166.4" EXIT WIDTH REQUIRED

EXIT WIDTH PROVIDED (12) 36" DOORS AND (2) 40" DOOR = 512" EXIT WIDTH PROVIDED

THIRD FLOOR MEANS OF EGRESS

TOTAL OCCUPANT LOAD - 12 OCCUPANTS

12 OCC. X .3 (STAIRS) = 3.6" EXIT WIDTH REQUIRED



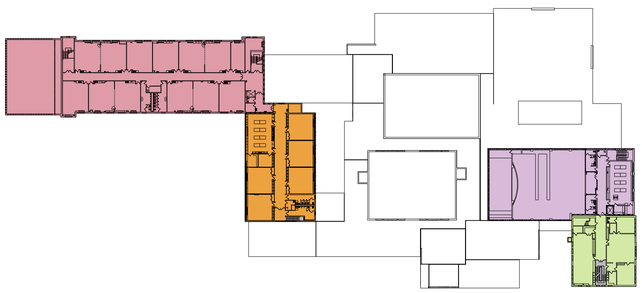
CODE COMPLIANCE SECOND FLOOR PLAN

1 / G-102

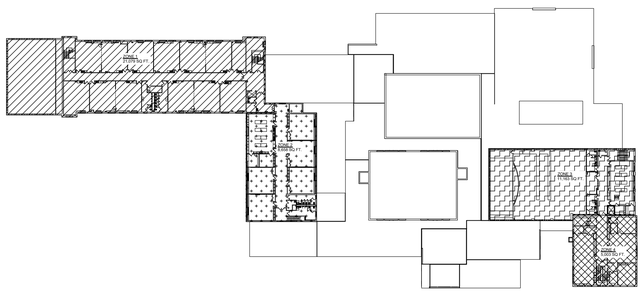
SCALE: N.T.S.

BUILDING EVOLUTION LEGEND

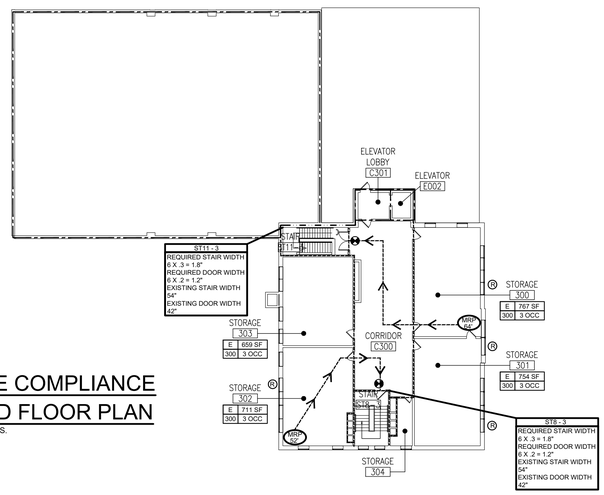
- 1908 - ORIGINAL BUILDING 3B CONSTRUCTION
- 1955 - BUILDING ADDITION 2B CONSTRUCTION
- 1967 - BUILDING ADDITION 2B CONSTRUCTION
- 1994 - BUILDING ADDITION 2B CONSTRUCTION
- 2002 - BUILDING ADDITION 2A CONSTRUCTION
- 2020 - BUILDING ADDITION 2A CONSTRUCTION



BUILDING EVOLUTION KEY PLAN



SMOKE ZONE PLAN



CODE COMPLIANCE THIRD FLOOR PLAN

2 / G-102

SCALE: N.T.S.

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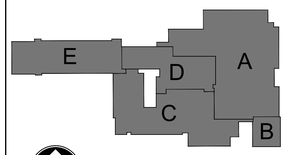

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

SECOND FLOOR AND THIRD FLOOR CODE COMPLIANCE PLAN

DRAWN BY:	CHECKED BY:
R.J.C. / A.L. / T.M.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

G-102

CAD FILE: 5005-G-102.DWG PLOT DATE: 11/10/2025

REQUIRED SPECIAL INSPECTIONS

OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO OBSERVE THE CONSTRUCTION OF THE FOLLOWING ITEMS FOR CONFORMANCE TO CONTRACT DOCUMENTS AND CODE REQUIREMENTS:

FOR ADDITIONAL INFORMATION REFER TO:
- 2018 INTERNATIONAL BUILDING CODE CHAPTER 17
- 2020 BUILDING CODE OF NEW YORK STATE
- 2016 AMERICAN SOCIETY OF CIVIL ENGINEERS 7
- 2014 AMERICAN CONCRETE INSTITUTE SECTION 26.13
- 2016 AMERICAN INSTITUTE OF STEEL CONSTRUCTION 360 CHAPTER N
- 2016 THE MASONRY SOCIETY 602 SPECIFICATION SECTION 1.6 TABLES 3 AND 4 FOR LEVEL 2

ALL COORDINATION AND SCHEDULING OF TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR.

SPECIAL INSPECTION AGENCY MUST OBTAIN APPROVAL IN WRITING FROM ENGINEER TO ALTER PROCEDURES OR INSPECTIONS OR WAIVE REQUIREMENTS.

CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL REQUIRED MUNICIPAL INSPECTIONS AND ALL SPECIAL INSPECTIONS WITH AUTHORITY HAVING JURISDICTION (AHJ).

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHARGES DUE TO ANY SPECIAL INSPECTIONS WHICH ARE CANCELED.

INSPECTION AGENCY SHALL REPORT TO THE OWNER, CONSTRUCTION MANAGER, CONTRACTOR AND ENGINEER WITHIN 24 HOURS AFTER COMPLETION OF TESTING THAT TESTING HAS TAKEN PLACE AND NO NEGATIVE RESULTS WERE FOUND. IF NEGATIVE RESULTS ARE FOUND, THEY SHALL BE REPORTED IMMEDIATELY TO ALL PARTIES FOR CORRECTIVE ACTION.

ITEMS FOR OBSERVATION AND TESTING (ALL TEST SPECIMENS SHALL BE PREPARED BY TESTING AGENCY, NOT CONTRACTOR):

C1. PERIODIC OBSERVATION OF SLAB, PIER, COLUMN, WALL, & FOOTING FORMWORK PRIOR TO PLACEMENT OF CONCRETE (FREE OF DEBRIS, LEVEL, DRY, USE OF BAR SUPPORTS / CHAIRS).

C2. PERIODIC OBSERVATION OF THE POSITION OF REINFORCING, PRIOR TO PLACING CONCRETE (PLUMB AND LEVEL; PROPERLY TIED; AT CORRECT SPACING; CORRECT SIZE; CORRECTLY SUPPORTED; CORRECT CLEARANCE).

C3. PERIODIC OBSERVATION OF LENGTH AND LOCATIONS OF REINFORCING LAPS.

C4. CONTINUOUS OBSERVATION OF CONCRETE PLACEMENT PROCEDURE (CHUTE, TREMIE, PUMPING AND VIBRATION TECHNIQUES).

C5. PERIODIC VERIFICATION THAT APPROVED CONCRETE MIX DESIGN IS IN USE.

C6. PERIODIC VERIFICATION THAT SPECIFIED CURING TEMPERATURES AND TECHNIQUES ARE IN USE AND BEING MAINTAINED.

C7. PERIODIC CONCRETE TESTING FOR COMPRESSIVE STRENGTH, AIR CONTENT, TEMPERATURE, WEIGHT, AND SLUMP; DATE AND TIME OF SAMPLES; SIX CYLINDERS PER 25 CUBIC YARDS FOR ALL STRUCTURAL AND NON-STRUCTURAL CONCRETE. TWO TESTED AT 7 DAYS, TWO TESTED AT 28 DAYS, AND TWO RESERVED FOR 56 DAYS. TESTING AGENCY SHALL PREPARE CYLINDERS AND SAMPLE AT THE POINT OF PLACEMENT AFTER THE FIRST YARD HAS DISCHARGED.

S1. PERIODIC VERIFICATION THAT BOLTS, NUTS AND WASHERS BEAR IDENTIFICATION MARKINGS CONFORMING TO ASTM MARKINGS FOR THOSE SPECIFIED IN CONSTRUCTION DOCUMENTS.

S2. PERIODIC INSPECTION OF BOLTED STRUCTURAL STEEL BEARING CONNECTIONS.

S3. CONTINUOUS INSPECTION OF ALL COMPLETE AND PARTIAL PENETRATION WELDS, MULTI-PASS FILLET WELDS (5/16" AND LARGER), PROPER PREHEATING PROCEDURES, ELECTRODES KEPT IN OVEN AND REMOVAL OF ANY GLAVANIZING (FOR WELDS PERFORMED IN THE FIELD AND IN THE FABRICATOR'S SHOP).

S6. PERIODIC INSPECTION OF FIELD SINGLE-PASS FILLET WELDS 5/16" AND SMALLER, VERIFICATION OF WELD FILLER MATERIAL, PROPER PREHEATING PROCEDURES, ELECTRODES KEPT IN OVEN AND REMOVAL OF ANY GALVANIZING FOR WELDS PERFORMED IN THE FABRICATOR'S SHOP AND IN THE FIELD.

S7. PERIODIC INSPECTION OF FRAMES AROUND ROOF AND FLOOR OPENINGS AS INDICATED ON DRAWINGS.

S8. PERIODIC OBSERVATION OF ROOF DECK TO ENSURE THAT NO INSTALLATIONS (ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, COMMUNICATION, ETC) ARE BEING SUSPENDED FROM ROOF DECK. NOTHING SHALL BE SUSPENDED FROM THE ROOF DECK OR THE FLOOR SLAB WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER. MISCELLANEOUS STEEL FOR THESE APPLICATIONS SHALL BE PROVIDED BY THE RESPECTIVE INSTALLERS.

M1. PERIODIC INSPECTION OF PROPORTIONS OF SITE-MIXED MORTAR.

M2. PERIODIC OBSERVATION OF CONSTRUCTION OF MORTAR JOINTS AND PLACEMENT OF FULL-BED MORTAR JOINTS FOR CMU.

M3. PERIODIC OBSERVATION OF LOCATION OF REINFORCEMENT, CLEARANCES, PLUMBNESS, SPACING, LENGTHS OF LAPS; VERIFICATION OF REINFORCING SIZE(S), GRADE AND SPACING; USE OF REBAR POSITIONERS.

M4. PERIODIC OBSERVATION OF MASONRY TIE ATTACHMENT TO COLUMNS AND BEAMS (TYPE AND SPACING).

M5. PERIODIC OBSERVATION OF JOINT REINFORCEMENT AND WEEP HOLES.

M6. PERIODIC OBSERVATION OF TYPE, SIZE, GRADE AND SPACING OF ANCHOR RODS, EXPANSION ANCHORS AND CHEMICAL ANCHORS.

M7. PERIODIC OBSERVATION OF TOP OF MASONRY WALL BRACING TO STRUCTURE.

M8. PERIODIC OBSERVATION THAT COLD AND/OR HOT WEATHER PROCEDURES ARE IN USE AND BEING MAINTAINED.

M9. PERIODIC INSPECTION OF SITE-MIXED GROUT.

M10. PERIODIC INSPECTION OF CMU CAVITIES, PRIOR TO GROUTING.

M11. PERIODIC OBSERVATION OF LOCATIONS OF BOND BEAMS.

M12. PERIODIC INSPECTION OF GROUTING PROCEDURE BENEATH LINTELS AND BEAMS BEARING ON MASONRY.

M13. MASONRY PRISM TESTING (ONE PER EVERY 5,000 SQUARE FEET OF WALL, BUT NOT LESS THAN ONE PER DAY). USE OF MORTAR AND GROUT CUBE TESTING IN LIEU OF PRISM TESTING MUST BE APPROVED BY ENGINEER.

M14. CONTINUOUS OBSERVATION OF GROUTING PROCEDURE, TO ENSURE COMPLIANCE WITH TMS 602 AND CONTRACT DOCUMENTS (INCLUDING MAXIMUM LIFT HEIGHT).

GENERAL NOTES:

UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING NOTES SHALL APPLY:

1. ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE ACI 318 (LATEST EDITION).
2. ALL POURED-IN-PLACE STONE CONCRETE SHALL DEVELOP A STRENGTH OF 4000 PSI AT 28 DAYS (U.O.N.).
3. ALL REINFORCEMENT SHALL BE DEFORMED BARS ASTM DESIGNATION A615, GRADE 60.
4. CONCRETE PROTECTION FOR REINFORCEMENT SHALL CONFORM TO LATEST A.C.I. SPECIFICATION.
5. ALL TEMPERATURE REINFORCING SHALL BE SUFFICIENTLY EMBEDDED TO DEVELOP FULL STRENGTH IN ALL CONCRETE WALLS AND SLABS.
6. PROVIDE ADEQUATE TIES FOR ALL REINFORCEMENT IN SLABS, BEAMS, PIERS AND WALLS. REINFORCEMENT TO BE HELD AT CORRECT DISTANCE FROM FORMS, EARTH AND METAL DECK BY STEEL CHAIRS OR TIES.
7. FOLLOW C.R.S.I. RULES FOR PLACING OF ALL REINFORCING STEEL AND ACCESSORIES.
8. NO CONCRETE SHALL BE POURED UNTIL THE PRELIMINARY TESTS REQUIRED HAVE BEEN MADE, REPORTS THEREOF FILED WITH THE ENGINEER, AND APPROVED. THE CONTROLLED CONCRETE TO BE USED SHALL CONFORM TO THE APPROVED DESIGN MIX OBTAINED AS A RESULT OF THE PRELIMINARY TESTS. THE USE OF ANY ADDITIVES NOT PRESENT IN THE PRELIMINARY TEST MIX IS PROHIBITED.
9. REPRESENTATIVE TEST CYLINDERS WILL BE TAKEN FROM THE CONCRETE PLACED EACH DAY IN ACCORDANCE WITH CONCRETE SPECIFICATIONS.
10. WELDED WIRE FABRIC SHALL HAVE A MINIMUM YIELD STRENGTH OF 70,000 PSI AND SHALL CONFORM TO ASTM A185 AND A1064.
11. ALL MESH SHALL BE SPLICED SO THAT THE OVERLAP BETWEEN OUTERMOST CROSS WIRES OF EACH SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES.
12. THIS CONTRACTOR SHALL COOPERATE WITH OTHER TRADES AND WHERE REQUIRED INSTALL ALL BUILT-IN WORK, SLEEVES, INSERTS, ETC. AS REQUIRED FOR A COMPLETE JOB.
13. STRUCTURAL SLABS ON GRADE SHALL BE OF A THICKNESS AND REINFORCED AS INDICATED ON THE DRAWINGS.
14. ALL SLABS ON GRADE SHALL HAVE THICKENINGS, DEPRESSIONS, OPENINGS, ETC. AS REQUIRED OR AS SHOWN HEREIN OR ON THE ARCHITECTURAL DRAWINGS.
15. PROVIDE 100% CONTINUITY OVER SUPPORTS FOR ALL CONTINUOUS SLABS AND BEAMS.
16. PROVIDE TWO #5 BARS ALL AROUND OPENINGS IN ANY CONCRETE WALL, BEAM, SLAB, GRADE BEAM OR MASONRY BEARING WALL.
17. PROVIDE POCKETS IN WALLS FOR COLUMNS, BEAMS AND SLABS.
18. MINIMUM BEARINGS ON WALLS OR BEAMS SHALL BE 4" FOR SLABS, 8" FOR BEAMS (U.O.N.).
19. TOP ELEVATION OF SLABS SHALL VARY ACCORDING TO FINISH FLOOR MATERIAL. SEE ARCHITECTURAL DRAWINGS.
20. IN ANY APPROVED CONSTRUCTION JOINT, PROVIDE 2"x4" KEY AND 50 BAR DIAMETER LAP (16" MIN) OR REINFORCING, EXCEPT FOR SLABS ON GRADE.
21. FOR SLAB ON GRADE, CONTRACTOR IS PERMITTED TO CAST AS MUCH CONCRETE AS CAN BE PLACED AND FINISHED IN ONE OPERATION SO THAT COLD JOINTS ARE NOT PRODUCED. MAXIMUM SPACING OF CONTRACTION JOINTS SHALL BE 15'-0" O.C.
22. ALL BACKFILL TO BE PLACED IN 6" LAYERS AND COMPACTED TO 95% OF MAXIMUM MODIFIED DENSITY.
23. PROVIDE PRECAST LINTELS FOR ALL OPENINGS OR RECESSES IN BLOCK WALLS WHERE NO SPECIFIC LINTEL IS NOTED.
24. ALL LINTELS SHALL HAVE 8" MINIMUM BEARING EACH END. WHERE STRUCTURAL MEMBERS INTERFERE WITH BEARINGS, PROVIDE CONNECTION TO MEMBER.
25. FILL TWO COURSES OF BLOCK WITH MORTAR UNDER ALL LINTEL BEARING AREAS.
26. SEE MECHANICAL AND ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS IN ROOF, FLOORS AND WALLS NOT SHOWN ON STRUCTURAL DRAWINGS.
27. SEE MECHANICAL AND ARCHITECTURAL DETAILS ON ROOF DRAINS AND MISCELLANEOUS ROOF OPENINGS FOR CURBS AND MISCELLANEOUS ANGLE IRON.
28. MISCELLANEOUS IRON CONTRACTOR TO PROVIDE MISCELLANEOUS STEEL SHOWN ON ARCHITECTURAL DRAWINGS THAT IS NOT SHOWN ON STRUCTURAL DRAWINGS.
29. EXACT SIZES AND LOCATIONS OF ALL OPENINGS ARE TO BE VERIFIED WITH THE APPROVED SHOP DRAWINGS ISSUED FOR THE INSTALLATION. THE EXACT SIZES SHALL BE COORDINATED PRIOR TO ANY FABRICATION AND INSTALLATION BY ANY AND ALL TRADES. SIZES AND LOCATIONS SHOWN ARE DIAGRAMMATIC AND FOR INFORMATION ONLY.
30. ANY FABRICATION AND/OR INSTALLATION WHICH HAS NOT BEEN PROPERLY COORDINATED WITH THE APPROVED EQUIPMENT MANUFACTURER(S), AND WHICH MUST BE REPAIRED, RELOCATED, ALTERED, REPLACED, REINSTALLED OR MODIFIED IN ANY MANNER SHALL BE DONE TO THE SATISFACTION OF THE OWNER AND WITH NO ADDITIONAL COST TO THE OWNER OR THE DESIGN PROFESSIONAL.
31. PROVIDE TWO #5 BARS 24" LONG AT EACH CORNER OF ALL OPENINGS IN FLOOR SLAB (SUPPORTED AND ON GRADE), INCLUDING IF SLAB IS POURED AROUND WALLS.
32. PROVIDE #4 DOWELS AT 16" O.C. (16"x16") FROM FOUNDATIONS INTO EXTERIOR SLABS OR SIDEWALKS AT ALL EXTERIOR DOORWAYS.
33. THIS PROJECT HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE SUPERIMPOSED LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING AND SHORING, UNDERPINNING, ETC.
34. NEW ROOF SHALL HAVE BEEN DESIGNED FOR THE UNIFORM SNOW AND LIVE LOADS LISTED IN THE DESIGN INFORMATION TABLE. THE USE OF ANY LIFTS OR STORED MATERIALS ON NEW OR EXISTING SHALL BE EVALUATED BY AN ENGINEER LICENSED IN THE STATE OF THE PROJECT IN THE EMPLOY OF THE CONTRACTOR. PROVIDE CALCULATIONS IF REQUESTED.

SHOP DRAWING REQUIREMENTS

1. STRUCTURAL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW OF ALL STRUCTURAL ITEMS IN A TIMELY MANNER.
2. INCOMPLETE SHOP DRAWINGS AND SHOP DRAWINGS NOT CHECKED BY THE DETAILER AND THE CONTRACTOR SHALL BE REJECTED. MISSING MEMBERS AND DIMENSIONS, AND LACK OF COORDINATION SHALL BE CONSIDERED EVIDENCE OF INCOMPLETENESS.
3. CONTRACTOR SHALL REVIEW DRAWINGS FOR COMPLETENESS AND CONFORMANCE TO THE DESIGN DOCUMENTS PRIOR TO SUBMISSION TO THE ENGINEER.
4. THE STRUCTURAL ENGINEER SHALL HAVE A MINIMUM OF TEN WORKING DAYS TO PROCESS SHOP DRAWINGS.
5. RESUBMITTED SHOP DRAWINGS SHALL HAVE ALL REVISIONS CLOUDED
6. SHOP DRAWINGS COMBINING WITH STRUCTURAL STEEL AND MISC METALS SHALL BE REJECTED.
7. AT PROJECT CLOSE-OUT, PROVIDE RECORD COPY OF COMPLETE SET OF SHOP DRAWINGS WITH ALL CORRECTIONS MADE - IF REQUESTED.
8. DRAWINGS SHALL NOT BE RESUBMITTED UNLESS MARKED FOR RESUBMISSION.
9. CONTRACTOR SHALL ENSURE CORRECTIONS MARKED IN SHOP DRAWINGS ARE BEING IMPLEMENTED.
10. ALL ITEMS MARKED VERIFY, VERIFY IN FIELD, VIF, ETC SHALL BE VERIFIED BY THE GENERAL CONTRACTOR OR THE CONSTRUCTION MANAGER
11. SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER FOR CONFORMANCE WITH DESIGN INTENT AND RETURNED MARKED ON THE SHOP DRAWING STAMP WITH ONE OF THE FOLLOWING:

    NO EXCEPTIONS TAKEN - PRODUCTION / FABRICATION MAY PROCEED WITHOUT RESUBMITTAL OF DOCUMENTS.

    MAKE CORRECTIONS NOTED - PRODUCTION / FABRICATION MAY PROCEED AFTER THE COMMENTS AND CORRECTIONS HAVE BEEN MADE WITHOUT RESUBMITTAL OF DOCUMENTS.

    RESUBMIT - ITEMS SPECIFICALLY MARKED AS RESUBMIT SHALL NOT BE PRODUCED / MANUFACTURED BUT SHALL BE CORRECTED AND RESUBMITTED TO THE ENGINEER FOR REVIEW WITH CORRECTIONS CLOUDED.

    REVIEWED - ITEMS WHICH HAVE BEEN DESIGNED, SIGNED, AND SEALED BY ANOTHER ENGINEER SHALL BE MARKED REVIEWED AND WILL BE REVIEWED FOR CONFORMANCE WITH DESIGN INTENT ONLY.

GENERAL NOTES (STRUCTURAL STEEL)

UNLESS OTHERWISE NOTED OR SHOWN ON PLAN, THE FOLLOWING SHALL APPLY:

1. STEEL FRAMING CONNECTIONS SHALL BE MADE USING ASTM F3125 HIGH-STRENGTH BOLTS.
2. WIDE FLANGE SHAPES SHALL BE ASTM A992 UNLESS NOTED. HOLLOW STRUCTURAL TUBE SECTIONS SHALL BE ASTM A500, GRADE C. CHANNELS, ANGLES AND PLATES SHALL BE ASTM A36. ANCHOR RODS SHALL BE ASTM F1554, GRADE 60, WELDABLE. HOLLOW STRUCTURAL SECTION MEMBERS SHALL BE FURNISHED WITH 1/4" (MINIMUM) CLOSURE PLATES.
3. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS USING TYPE E70XX ELECTRODES AND SHALL CONFORM TO THE CODE FOR WELDING IN BUILDING CONSTRUCTION OF THE A.W.S.
4. METAL ROOF DECK SHALL BE ATTACHED TO FRAMING BY WELDING PER MANUFACTURER AND STEEL DECK INSTITUTE STANDARDS.
5. ALL STEEL JOISTS AND JOIST GIRDERS SHALL BE FABRICATED AND INSTALLED WITH THE LATEST S.J.I. SPECIFICATIONS INCLUDING BRIDGING, ANCHORAGE, ERECTION, ETC.
6. BEAM AND GIRDER CONNECTIONS SHALL BE DESIGNED TO SUPPORT A MINIMUM REACTION DETERMINED BY THE FORMULA Wc/2L AS DEFINED BY THE AISC MANUAL OF STEEL CONSTRUCTION (CHAPTER 2) OR THE REACTION SHOWN ON THE DRAWINGS, WHICHEVER IS GREATER. REACTIONS FOR COMPOSITE BEAMS TO BE DETERMINED BY THE FORMULA Wc/2L x 1.33 OR THE REACTION SHOWN ON THE DRAWINGS, WHICHEVER IS GREATER.
7. STRUCTURAL STEEL FABRICATOR AND INSTALLER SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL FRAMED OPENINGS IN FRAMED FLOORS AND ROOF WITH APPROVED EQUIPMENT MANUFACTURER(S). OPENINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO: MECHANICAL UNITS, EXHAUST FANS, CURB MOUNTED EQUIPMENT, ROOF DRAINS, SKYLIGHTS, STAIRS, SMOKE HATCHES, DUCT PENETRATIONS, EXPANSION JOINTS, ETC.
8. AT ROOF DECK PENETRATIONS, STEEL FABRICATOR TO PROVIDE 16 GAUGE GALVANIZED PLATE, 16"x16", FASTENED WITH (8)-#10 SCREWS, FOR ALL OPENINGS THROUGH METAL ROOF DECK UP TO 13"x13" OR 13" DIAMETER.
9. STRUCTURAL STEEL SHALL BE PRIME PAINTED (SEE SPECIFICATIONS).
10. NO LIGHT GAUGE FRAMING, MECHANICAL OR ELECTRICAL EQUIPMENT, OR OTHER EQUIPMENT OF ANY TYPE SHALL BE SUSPENDED FROM ROOF DECK OR JOIST BRIDGING.
11. THE GENERAL CONTRACTOR SHALL VERIFY THE EQUIPMENT WEIGHTS, LOCATIONS AND ROOF OPENING SIZES WITH THE MECHANICAL CONTRACTOR. THE OWNER'S EQUIPMENT SUPPLIER, AND ANY OF HIS SUBCONTRACTORS' APPROVED SHOP DRAWINGS, AND WITH THE ACTUAL EQUIPMENT PURCHASED. EQUIPMENT CANNOT BE ROTATED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED, IN WRITING, OF ANY DEVIATIONS FROM THE CONTRACT DRAWINGS, INCLUDING ANY CHANGES TO THE INDICATED WEIGHTS OF THE EQUIPMENT.
12. OPENINGS SHALL NOT BE CUT IN ROOF DECK UNTIL IMMEDIATELY PRIOR TO SETTING EQUIPMENT AS PER OSHA 1926.754(e).
13. THIS STRUCTURE HAS BEEN DESIGNED TO ACT AS A STRUCTURAL UNIT UPON COMPLETION. CONTRACTOR IS RESPONSIBLE TO DESIGN AND PROVIDE ALL NECESSARY BRACING, TEMPORARY SUPPORTS AND SHORING AS NEEDED TO RESIST FORCES - INCLUDING UPLIFT - DURING THE CONSTRUCTION OF THIS PROJECT.
14. ANY AND ALL COSTS FOR MODIFICATION TO SUPPORT STRUCTURE REQUIRED BY CHANGES TO THE MECHANICAL UNIT AFTER APPROVAL OF SHOP DRAWINGS SHALL BE BORNE BY THE MECHANICAL CONTRACTOR
15. ALL CONNECTIONS SHOWN ARE DIAGRAMMATIC AND SHALL BE DESIGNED BY THE FABRICATOR'S CONNECTION DESIGN ENGINEER REGISTERED IN THE STATE OF THE PROJECT. ANALYSIS AND DESIGN CALCULATIONS SHALL BE SIGNED AND SEALED BY CONNECTION ENGINEER AND SUBMITTED FOR REVIEW.

GENERAL NOTES (MASONRY)

1. **MASONRY WALLS HAVE BEEN DESIGNED AND SHALL BE CONSTRUCTED TO HAVE A STRENGTH OF f'm = 1500 PSI.**
2. **NORMAL WEIGHT CONCRETE MASONRY UNITS SHALL WEIGH 130 PCF**
   LIGHT WEIGHT CONCRETE MASONRY UNITS SHALL WEIGH 105 PCF
   ALL CONCRETE MASONRY UNITS PLACED ON SLABS-ON-DECK SHALL BE LIGHT WEIGHT UNITS
3. **CONCRETE MASONRY UNITS SHALL HAVE AN AVERAGE NET COMPRESSIVE STRENGTH OF 1900 PSI**
4. **CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90**
   MINIMUM FACE SHELL THICKNESS FOR 12" CMU SHALL BE 1.25".
5. **PROVIDE SPECIAL SHAPES (CORNER, END, CONTROL JOINT, RADIUSED EDGE, DOUBLE OPEN END, ETC.) AS REQUIRED AND DETAILED ON DRAWINGS.**
6. **MORTAR SHALL CONFORM TO ASTM C270. ALL CMU MASONRY SHALL BE LAID IN A FULL BED OF MORTAR INCLUDING ALL WEBS**

ALL FOUNDATION AND RETAINING WALLS	TYPE M	2500 PSI
ALL ABOVE GRADE WALLS	TYPE S	1800 PSI
ABOVE GRADE VENEER	TYPE N	750 PSI

7. **GROUT SHALL CONFORM TO ASTM C476. GROUT SHALL HAVE A COMPRESSIVE STRENGTH OF 2000 PSI AND CONTAIN PEA GRAVEL AGGREGATE. GROUTING OF MASONRY w/ VERTICAL REINFORCEMENT SHALL BE PERFORMED IN 48" LIFT HEIGHTS (MAXIMUM) UNLESS CONTRACTOR CAN DEMONSTRATE EXPERIENCE WITH HIGH-LIFT GROUTING. HIGH LIFT GROUTING WOULD INVOLVE CREATING**
   OUTLET HOLES AT THE BOTTOM OF EVERY VERTICAL GROUT COLUMN AND PUMPING GROUT CONTAINING "GLENIUM" FROM TOP OF WALL UNTIL GROUT FLOWS OUT OF BOTTOM OUTLET HOLE. HIGH LIFT MUST BE CONTINUOUSLY INSPECTED.
8. **REFER TO ARCHITECTURAL ELEVATIONS FOR SURFACE TEXTURE AND COLOR OF UNITS AND MORTAR.**
9. **VERTICAL REINFORCING SHALL BE ASTM A615 GRADE 60 NEW REINFORCING MANUFACTURED UN USA. VERTICAL REINFORCING TO BE WELDED SHALL BE ASTM A706.**
10. **USE 9 GAUGE GALVANIZED REBAR POSITIONERS BY WIRE BOND OR EQUAL IN EVERY FIFTH COURSE.**
11. **GROUT ALL CELLS WITH VERTICAL REINFORCEMENT SOLID.**
12. **HORIZONTAL REINFORCMENT SHALLBE 9 GAUGE GALVANIZED LADDER-TYPE CONFORMING TO ASTM A951, AT 16" O.C. ABOVE GRADE AND 8" O.C. BELOW GRADE (TRUSS-TYPE INTERFERES WITH GROUTING) WITH PREFABRICATED TEES AND CORNERS.**
13. **BOND BEAMS SHALL BE CONTINUOUS AND SHALL HAVE CORNER BARS AT INTERSECTIONS. REFER TO STRUCTURAL AND ARCHITECTURAL SECTIONS FOR LOCATIONS.**
14. **REFER TO ARCHITECTURAL DRAWINGS FOR LINTEL SCHEDULE**

STRUCTURAL ABBREVIATIONS

℄	CENTERLINE
Ø	DIAMETER
ADD'N	ADDITIONAL
ADJ	ADJACENT
AHJ	AUTHORITY HAVING JURISDICTION
BOTT	BOTTOM
B/S	BOTH SIDES
CL	CENTERLINE
CLR	CLEAR
C/C	CENTER TO CENTER
COL	COLUMN
CONT	CONTINUOUS
CONX	CONNECTION
D	DEEP
EF	EACH FACE
EOJ	EDGE OF JOIST
EOS	EDGE OF SLAB
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
FLG	FLANGE
FTG	FOOTING
FS	FAR SIDE
GA	GAUGE
H	HIGH
HEF	HORIZONTAL EACH FACE
HIF	HORIZONTAL INSIDE FACE
HOF	HORIZONTAL OUTSIDE FACE
IF	INSIDE FACE
JT	JOINT
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
MC	MOMENT CONNECTION
MO	MASONRY OPENING
NS	NEAR SIDE
oc	ON CENTER
OF	OUTSIDE FACE
PAF	POWDER ACTUATED FASTENER
Pc	PIECE
PROV'D	PROVIDE
PTD	PAINTED
REQ'D	REQUIRED
SCHD	SCHEDULE
SUP'T	SUPPORTED
TF	TOP OF FOOTING
TOS	TOP OF STEEL
TP	TOP OF PIER
UON	UNLESS OTHERWISE NOTED
VIF	VERTICAL INSIDE FACE
VOF	VERTICAL OUTSIDE FACE
VWM	VERIFY WITH MANUFACTURER
W	WIDE
WP	WORK POINT
WWF	WELDED WIRE FABRIC

STRUCTURAL SYMBOLS

- SPAN DIRECTION
- NEW COLUMN CENTERLINE
- EXISTING COLUMN CENTERLINE
- NEW & EXISTING COLUMN CENTERLINE
- MOMENT CONNECTION
- BEAM SHEAR SPLICE

DESIGN INFORMATION

THIS PROJECT HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:

2020 BUILDING CODE OF NEW YORK STATE
2018 INTERNATIONAL BUILDING CODE
2016 ASCE 7 - MIN DESIGN LOADS FOR BUILDINGS AND STRUCTURES
2014 ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
2013 TMS 402, 602 BUILDING CODE AND SPECS. FOR MASONRY STRUCTURES

FACTORY MUTUAL STANDARDS NOT APPLICABLE

RISK CATEGORY	III

IMPORTANCE FACTORS:

SNOW	Is = 1.10
WIND	Iw = 1.00
SEISMIC	Ie = 1.25

DEAD LOADS

ANALYSIS 1967 HIGH SCHOOL POOL ADDITION ROOF:

BUILT-UP ROOFING WITH BALLAST	14 PSF
2" GYPSUM ON INSUL. BD. AND BULB TEES	10 PSF
MECH, ELEC, PLUMB	5 PSF
CEILINGS AND SOFFITS	5 PSF
	34 PSF

ANALYSIS HIGH SCHOOL 2001 ADDITION ROOF:

BUILT-UP ROOFING WITH BALLAST	14 PSF
1" FIBER BOARD	1 PSF
3" RIGID INSULATION	5 PSF
2 PLY VAPOR BARRIER	1 PSF
1/2" GYP. BOARD	2 PSF
1-1/2" METAL DECK	2 PSF
MECH, ELEC, PLUMB	5 PSF
CEILINGS AND SOFFITS	5 PSF
	35 PSF

ANALYSIS HIGH SCHOOL 1955 ADDITION ROOF:

BUILT-UP ROOFING WITH BALLAST	14 PSF
2" PRECAST GYPCRETE PLANKS	12 PSF
3" RIGID INSULATION	5 PSF
MECH, ELEC, PLUMB	5 PSF
CEILINGS AND SOFFITS	5 PSF
	41 PSF

NO PROVISION FOR SOLAR PANELS

LIVE LOADS

ROOF: ORDINARY	20 PSF

SNOW LOADS

GROUND SNOW LOAD	pg = 41 PSF	
SNOW EXPOSURE FACTOR	Ce = 1.1	SHELTERED
THERMAL FACTOR	Ct = 1.0	INSULATED
ROOF FACTOR	0.7	
FLAT ROOF SNOW LOAD	pf = 32 PSF	

ADDITIONAL SNOW DRIFTS AT CHANGES IN ROOF HEIGHTS HAVE BEEN CONSIDERED

ELEVATION	1023 FT

WIND LOAD

BASIC WIND SPEED (V3S)	118 MPH
EXPOSURE CATEGORY	C

SEISMIC DESIGN DATA

SPECTRAL RESPONSE COEFFICIENTS:

0.2 SEC SPECTRAL RESPONSE ACCELERATION	Ss = 0.125g
1.0 SEC SPECTRAL RESPONSE ACCELERATION	S1 = 0.048g
	Sds = 0.133g
	Sd1 = 0.076g
SITE CLASS	ASSUMED
SEISMIC DESIGN CATEGORY	B
SEISMIC RESPONSE COEFFICIENT	Cs = 0.055 (5.5%)
SEISMIC FORCE RESISTING SYSTEM	STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
RESPONSE MODIFICATION FACTOR	R = 3
OVERSTRENGTH FACTOR	Ωo = 3
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE

THE FOLLOWING ITEMS ARE DELEGATED DESIGNS AND SHALL BE DESIGNED AND DETAILED BY THE CONTRACTOR'S ENGINEER(S) TO COMPLY WITH CODE AND THE LOADS LISTED IN THE DESIGN INFORMATION TABLE. THE CONTRACTOR'S ENGINEER(S) SHALL PREPARE A SUBMITTALS WHICH SHALL INCLUDE DRAWINGS, PRODUCT DATA, AND CALCULATIONS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION REGISTERED IN THE STATE OF THE PROJECT. REFER TO THE SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FURTHER INFORMATION

- STRUCTURAL STEEL CONNECTIONS
- INTERIOR AND EXTERIOR LIGHT-GAUGE STUD FRAMING

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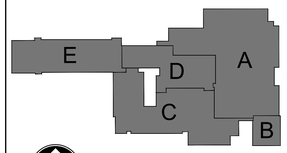

KEY PLAN

SED SUBMISSION
SED # 08-01-01-04-0-001-019

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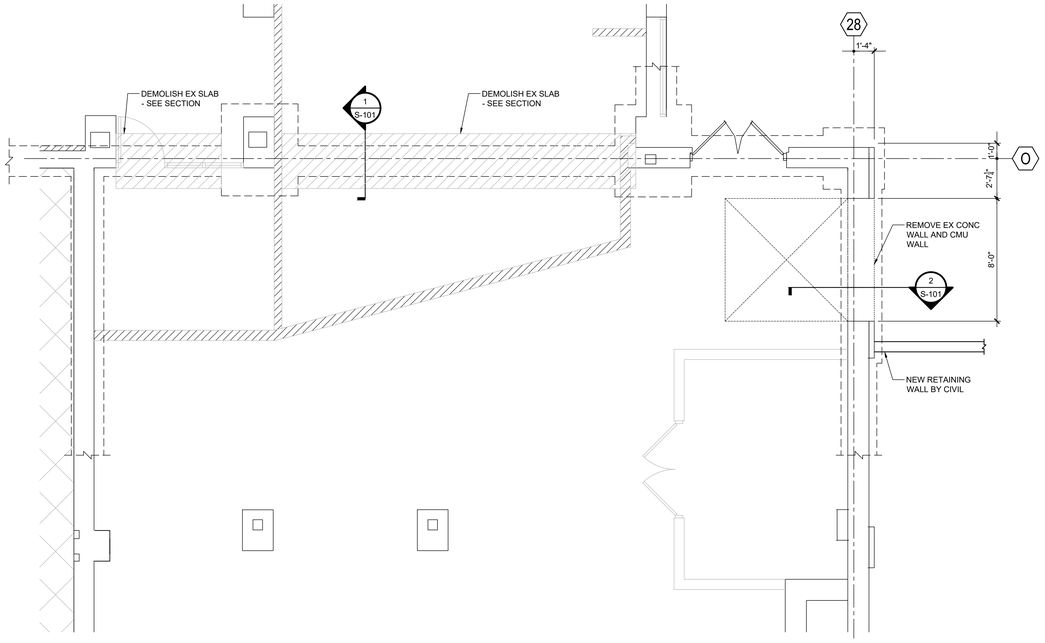
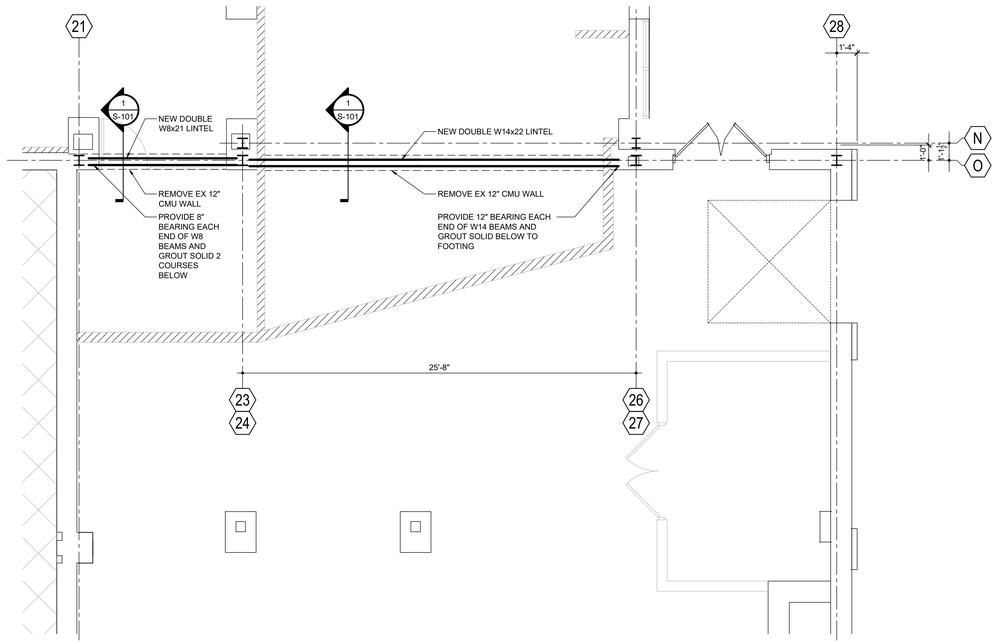


FOUNDATION PLAN

SCALE: 1"=1'-0"

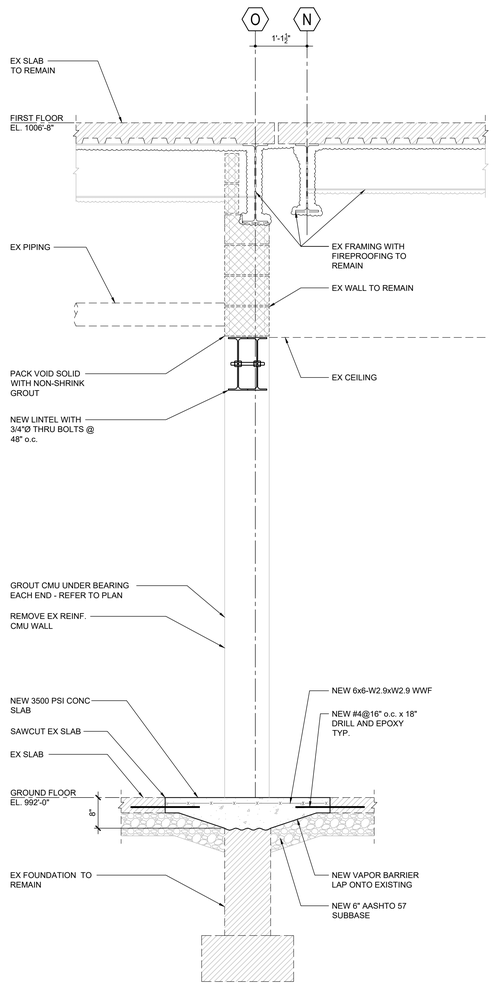
- FINISHED FLOOR ELEVATION 0'-0" (DATUM) UNLESS NOTED.



LINTEL FRAMING PLAN

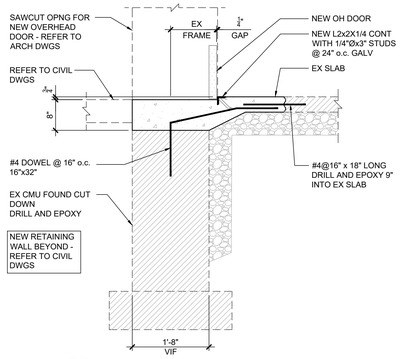
SCALE: 1/8"=1'-0"

SHORE EXISTING MASONRY WALL AS REQUIRED.
PROVIDE SHORING DRAWING WITH AN ENGINEER'S STAMP LICENSED IN THE STATE OF NEW YORK



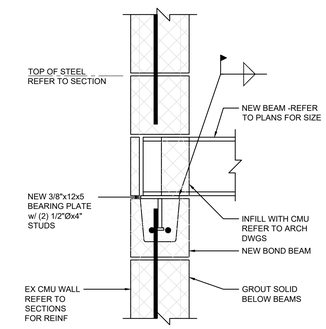
1 S-101 **SECTION AT NEW WALL OPENING**

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



2 S-101 **SECTIONT: OVERHEAD DOOR**

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



TYPICAL BEAM BEARING DETAIL

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

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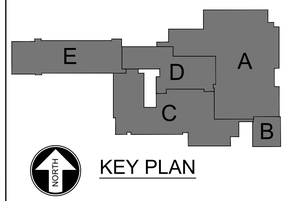

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

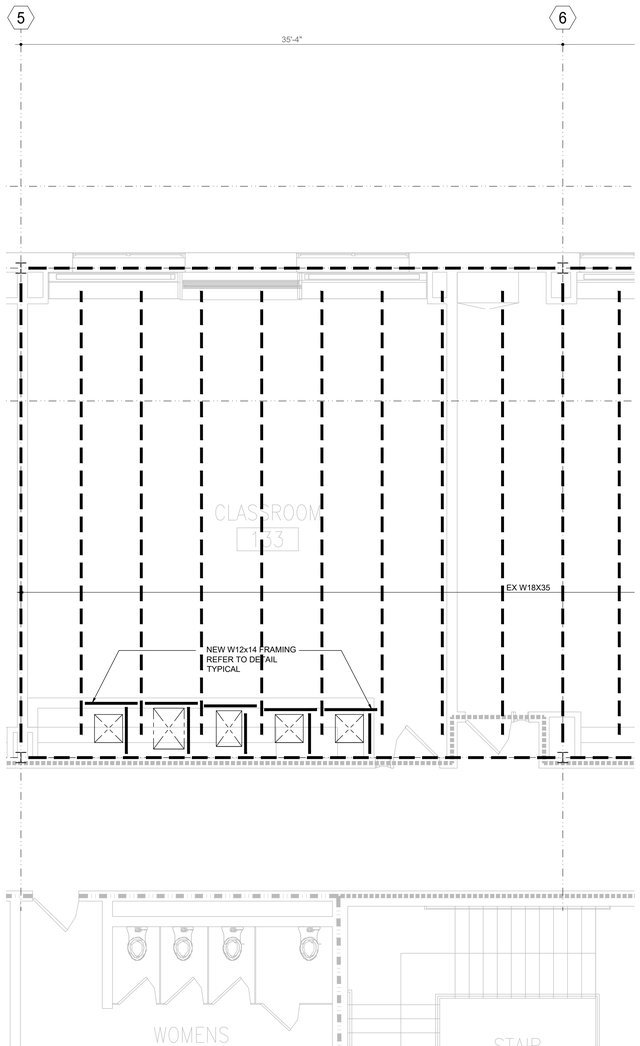
AGRICULTURE LABS FOUNDATION AND LINTEL PLAN

DRAWN BY:	CHECKED BY:
NAC	EDM
DATE:	PROJECT NO:
06/27/2025	2025-005

DRAWING NO:

S-101

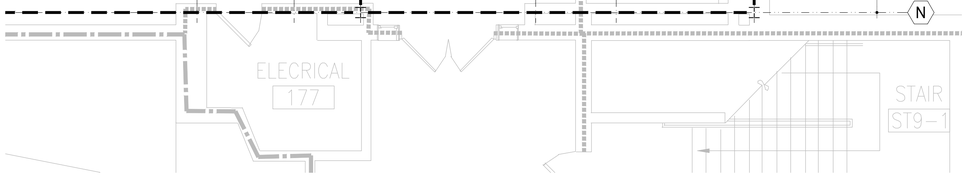
CAD FILE: 5005-S101.DWG PLOT DATE: 10/31/2025



CLASS ROOM CHASES FOR RTU-2

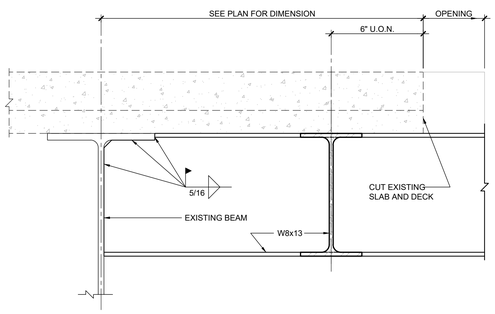
SCALE: 1/4" = 1'-0"

1. EXISTING FLOOR SLAB CONSTRUCTION: 4" CONCRETE ON 1-1/2" COMPOSITE METAL DECK. TOTAL SLAB THICKNESS 5-1/2"
2. EXISTING DIMENSIONS AND MEMBER SIZES SHOWN ARE FOR REFERENCE ONLY AND ARE BASED ON DRAWINGS PREPARED BY PALUCCI ENGINEERING
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS AND SIZES WITHIN AREA OF WORK



CHORUS ROOM CHASES FOR RTU-1

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



TYPICAL OPENING DETAIL IN EXISTING SLAB

NOT TO SCALE (4)

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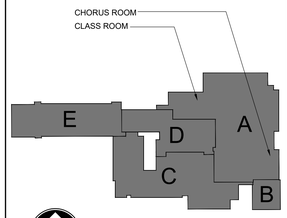

NORTH

KEY PLAN

SED SUBMISSION

SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central
School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

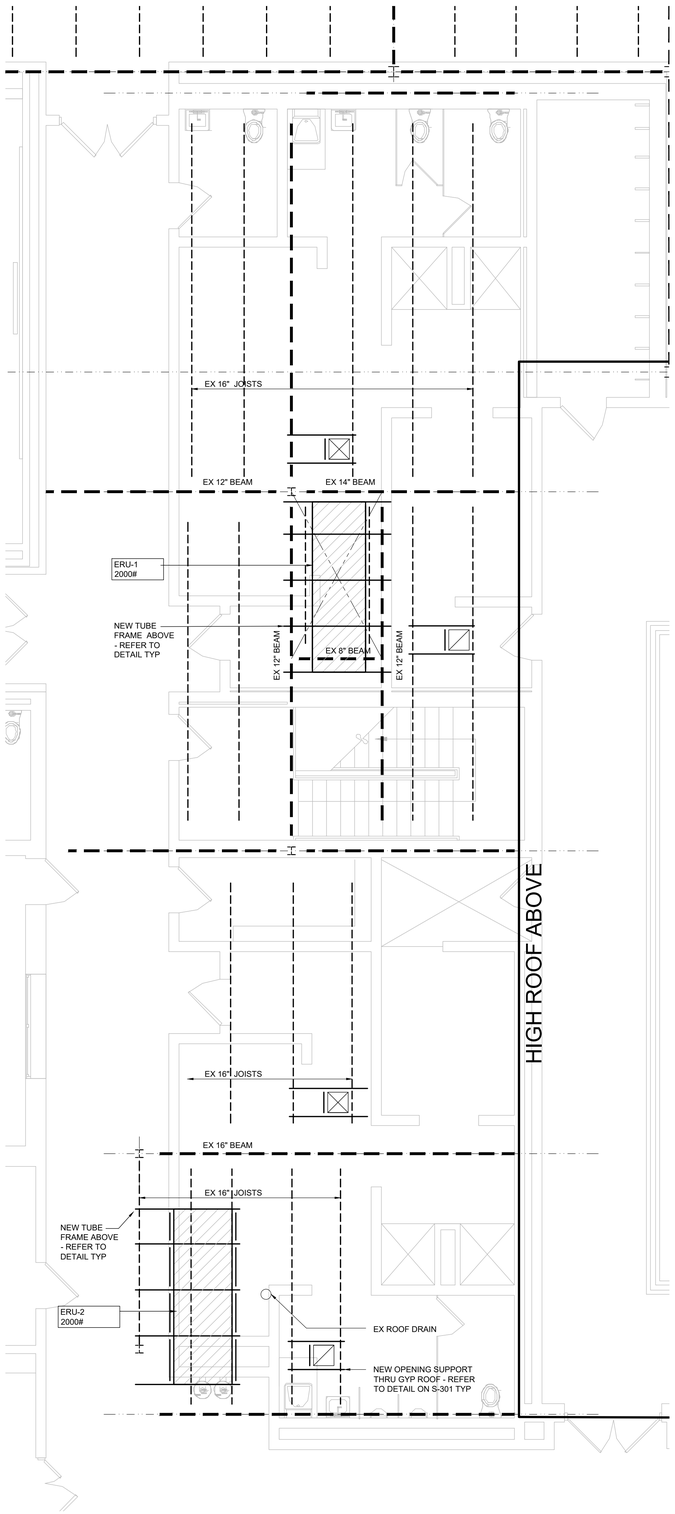
PARTIAL FLOOR
FRAMING PLANS

DRAWN BY:	CHECKED BY:
NAC	EDM
DATE:	PROJECT NO:
06/27/2025	2025-005

DRAWING NO:

S-201

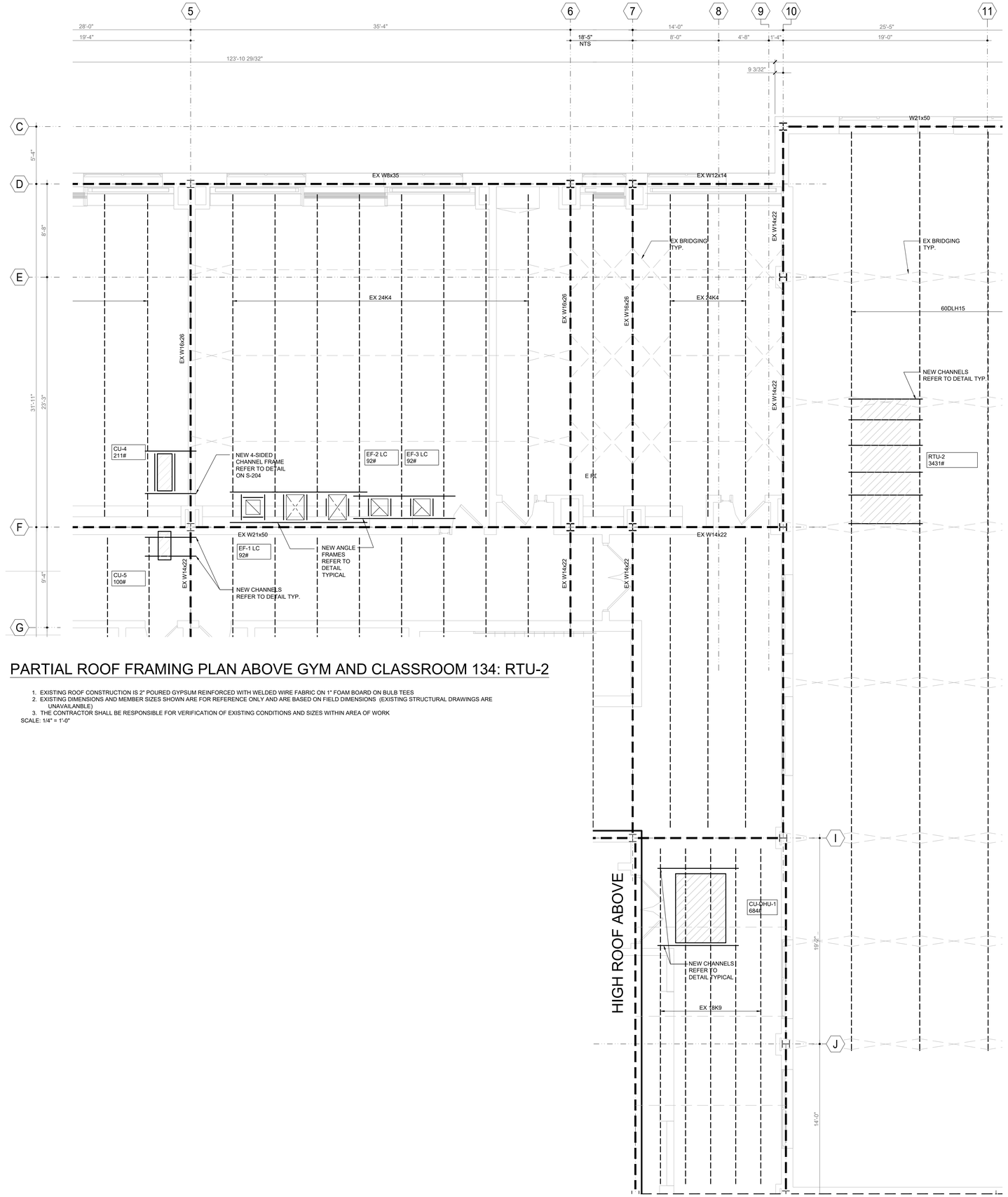
CAD FILE: 5005-S201.DWG PLOT DATE: 10/31/2025



PARTIAL ROOF FRAMING PLAN SHOWER ROOMS ERU-1 & 2

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

1. EXISTING ROOF CONSTRUCTION IS 2" POURED GYPSUM REINFORCED WITH WELDED WIRE FABRIC ON 1" FOAM BOARD ON BULB TEES
2. EXISTING DIMENSIONS AND MEMBER SIZES SHOWN ARE FOR REFERENCE ONLY AND ARE BASED ON FIELD DIMENSIONS (EXISTING STRUCTURAL DRAWINGS ARE UNAVAILANBLE)
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS AND SIZES WITHIN AREA OF WORK



PARTIAL ROOF FRAMING PLAN ABOVE GYM AND CLASSROOM 134: RTU-2

1. EXISTING ROOF CONSTRUCTION IS 2" POURED GYPSUM REINFORCED WITH WELDED WIRE FABRIC ON 1" FOAM BOARD ON BULB TEES
2. EXISTING DIMENSIONS AND MEMBER SIZES SHOWN ARE FOR REFERENCE ONLY AND ARE BASED ON FIELD DIMENSIONS (EXISTING STRUCTURAL DRAWINGS ARE UNAVAILANBLE)
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS AND SIZES WITHIN AREA OF WORK

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

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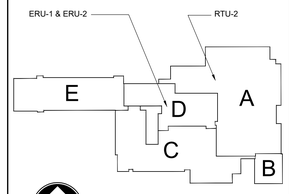

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

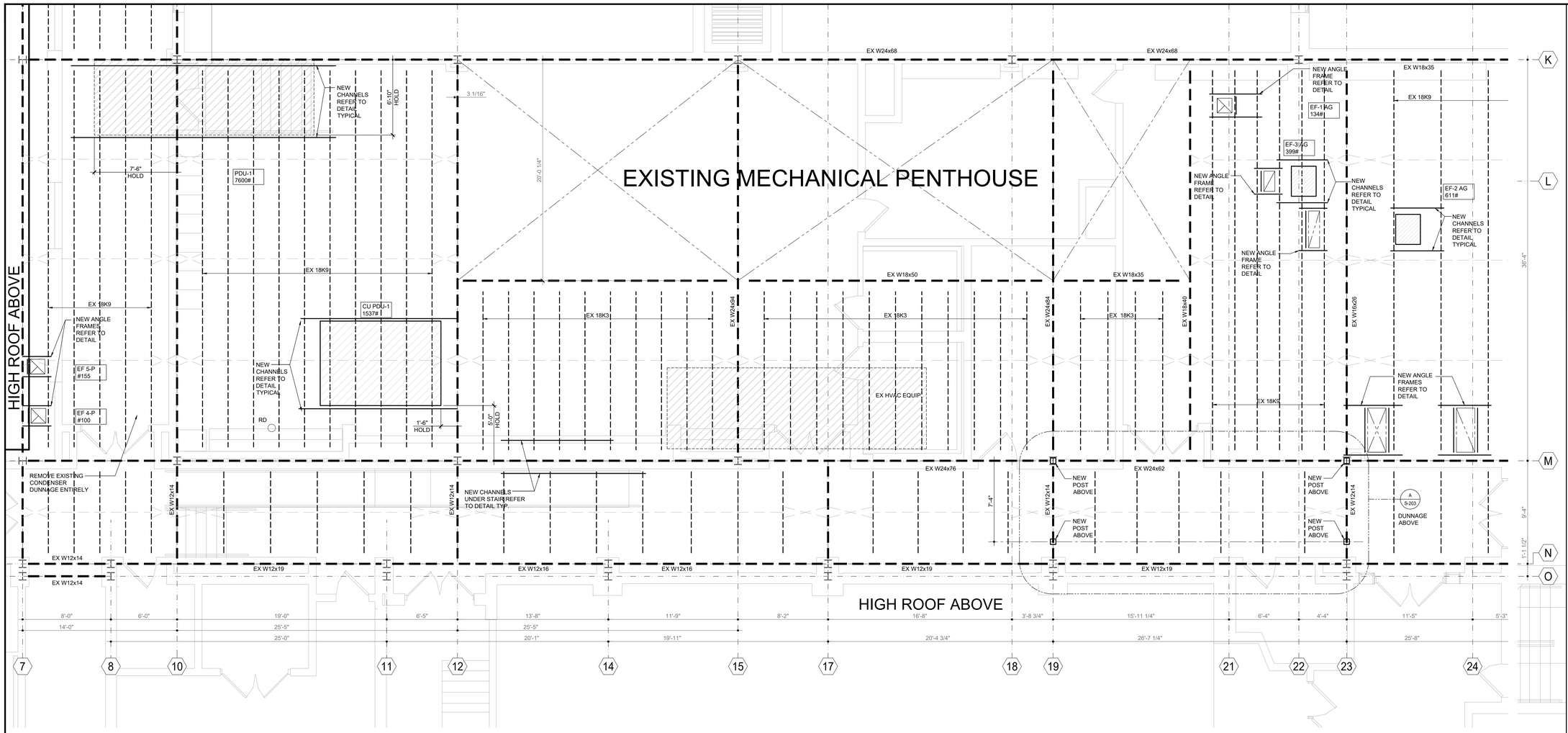
DRAWING TITLE:
PARTIAL ROOF FRAMING PLANS

DRAWN BY:	CHECKED BY:
DJL	EDM
DATE:	PROJECT NO:
06/27/2025	2025-005

DRAWING NO:

S-202

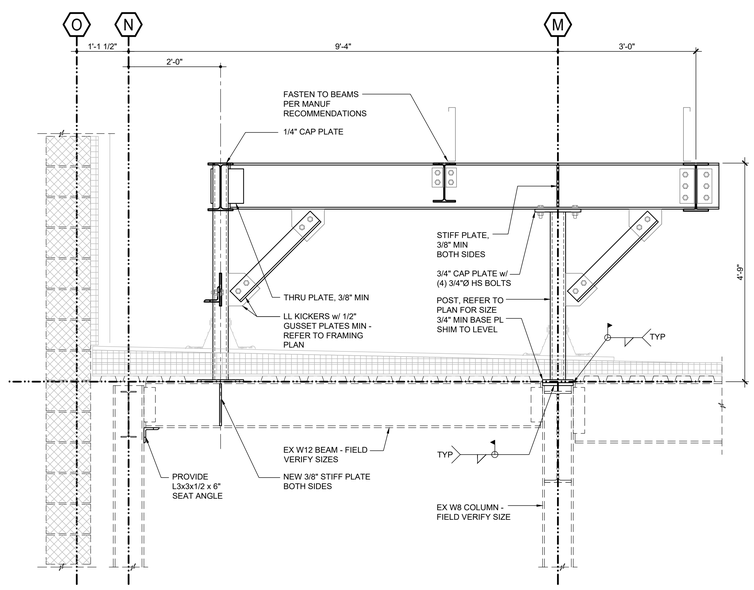
CAD FILE: 5005-S202.DWG PLOT DATE: 10/31/2025



PARTIAL ROOF FRAMING PLAN RTU-1

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

1. EXISTING ROOF CONSTRUCTION IS 1-1/2" 22 GA GALV DECK
2. EXISTING DIMENSIONS AND MEMBER SIZES SHOWN ARE FOR REFERENCE ONLY AND ARE BASED ON EXISTING STRUCTURAL STEEL AND JOIST SHOP DRAWINGS E6 AND JE4
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS AND SIZES WITHIN AREA OF WORK

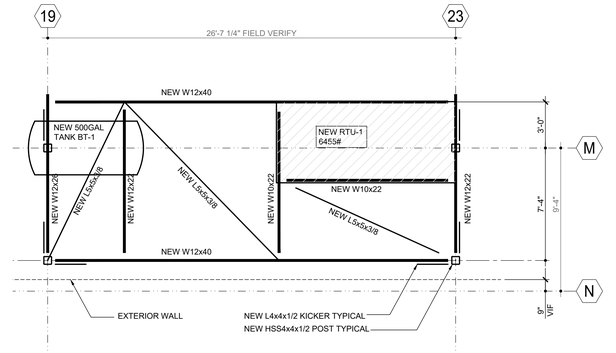


1 S-203 **SECTION: RTU-1 DUNNAGE**

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

ALL CONNECTIONS SHOWN ARE DIAGRAMMATIC AND SHALL BE DESIGNED BY THE FABRICATOR'S CONNECTION DESIGN ENGINEER REGISTERED IN THE STATE OF THE PROJECT. ANALYSIS AND DESIGN CALCULATIONS SHALL BE SIGNED AND SEALED BY CONNECTION ENGINEER AND SUBMITTED FOR REVIEW.

ALL ROOF WORK SHALL BE DONE IN ACCORDANCE WITH EXISTING ROOF MANUFACTURER'S RECOMMENDATIONS SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES. CONSULT WITH EXISTING ROOF MANUFACTURER PRIOR TO DOING ANY WORK. PROVIDE ALL NECESSARY ROOF PROTECTION TO MAINTAIN ROOF PERFORMANCE AND WARRANTY.



A S-203 **DUNNAGE FRAMING PLAN**

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

1. ALL STEEL SHALL BE HOT-DIPPED GALVANIZED
2. SHIM EQUIPMENT AS REQUIRED TO LEVEL USING GALVANIZED PLATES AS REQUIRED BY MANUFACTURER
3. STRUCTURAL STEEL FABRICATOR SHALL FURNISH A COPY OF THE DUNNAGE FRAMING SHOP DRAWING TO THE EQUIPMENT SUPPLIER FOR THEIR REVIEW FOR FRAMING CONFORMANCE WITH THE REQUIREMENTS OF THE UNIT(S) BEING FURNISHED FOR THIS PROJECT. THE EQUIPMENT SUPPLIER SHALL SIGNOFF ON THE STRUCTURAL FRAMING LAYOUT (INCLUDING LOCATIONS OF FRAMING RELATIVE TO THE REQUIRED SUPPORT POINTS OF THE UNIT(S)) PRIOR TO FABRICATION AND INSTALLATION OF THE DUNNAGE FRAMING.

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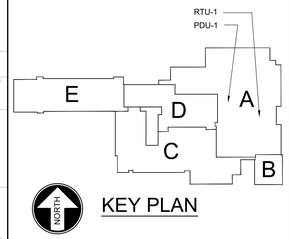

KEY PLAN

SED SUBMISSION
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

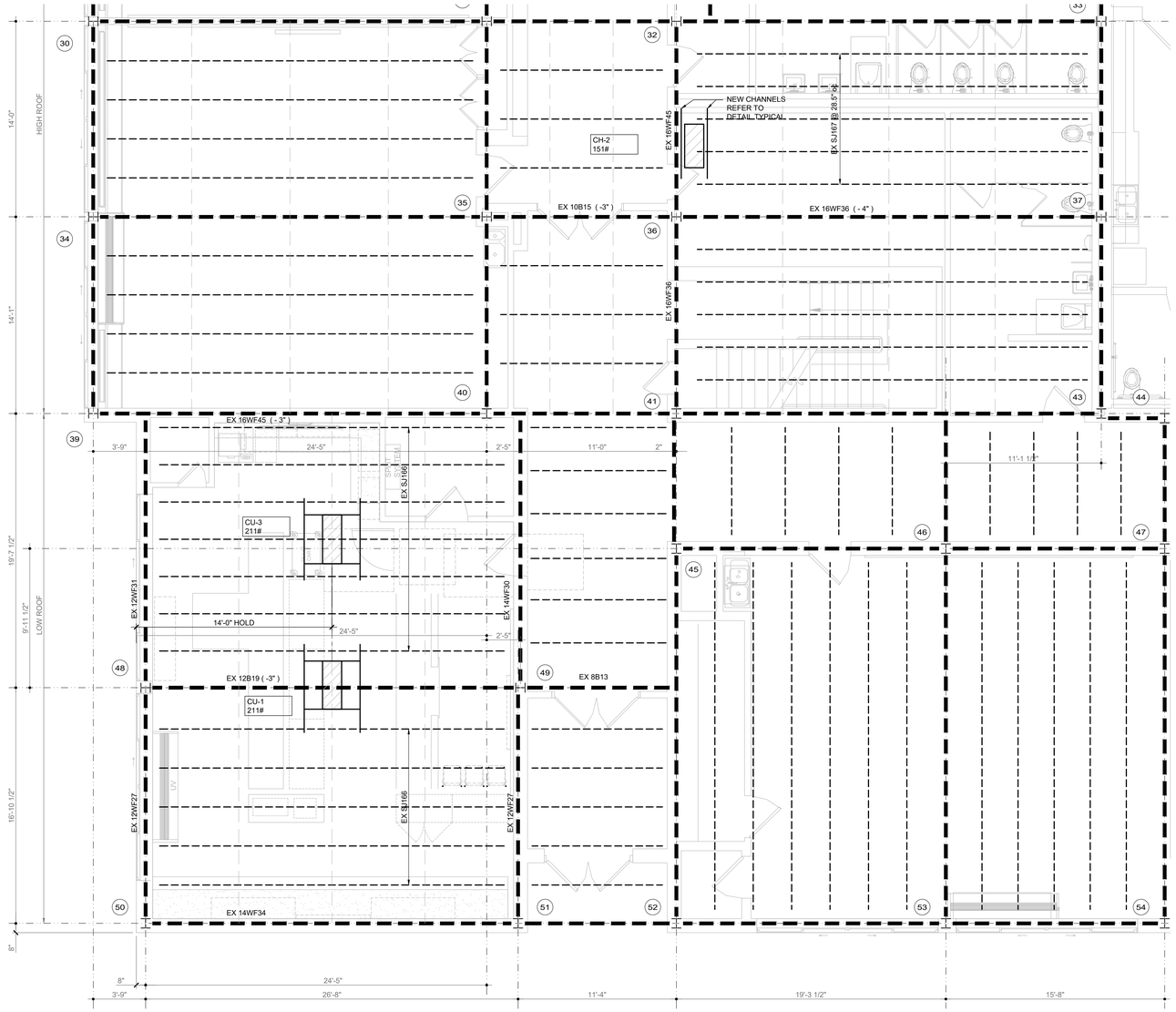
PARTIAL ROOF AND DUNNAGE FRAMING PLANS

DRAWN BY:	CHECKED BY:
DJL	EDM
DATE:	PROJECT NO:
06/27/2025	2025-005

DRAWING NO:

S-203

CAD FILE: 5005-S202.DWG PLOT DATE: 10/31/2025

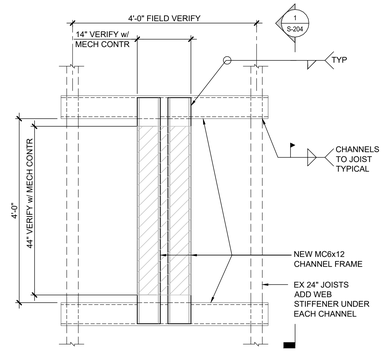


PARTIAL ROOF FRAMING PLAN CU-1, 2, 3

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

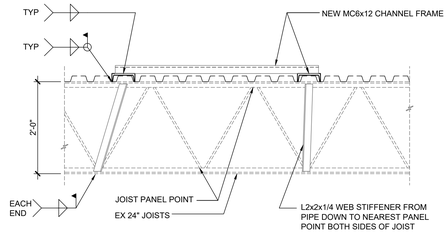
1. EXISTING ROOF CONSTRUCTION IS 2" PRECAST CRETEPLANK
2. EXISTING DIMENSIONS AND MEMBER SIZES SHOWN ARE FOR REFERENCE ONLY AND ARE BASED ON EXISTING 1955 DRAWINGS PREPARED BY ECKERLIN & KLEPPER
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS AND SIZES WITHIN AREA OF WORK

ALL ROOF WORK SHALL BE DONE IN ACCORDANCE WITH EXISTING ROOF MANUFACTURER'S RECOMMENDATIONS SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES. CONSULT WITH EXISTING ROOF MANUFACTURER PRIOR TO DOING ANY WORK. PROVIDE ALL NECESSARY ROOF PROTECTION TO MAINTAIN ROOF PERFORMANCE AND WARRANTY.



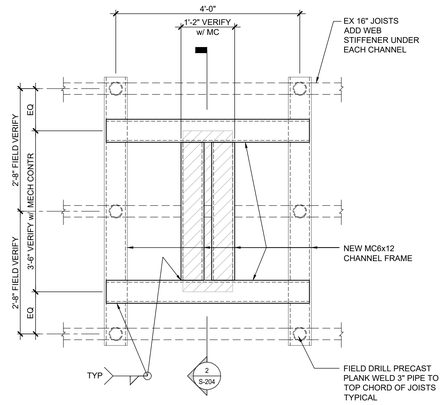
CONDENSER SUPPORT FRAME: PLAN: CU-4

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



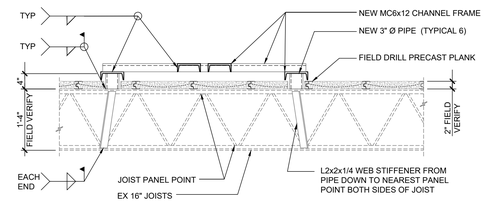
2 S-204 CONDENSER SUPPORT FRAME: SECTION: CU-4

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



CONDENSER SUPPORT FRAME: PLAN: CU-1, 2, & 3

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



2 S-204 CONDENSER SUPPORT FRAME: SECTION: CU-1, 2, & 3

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

ALL STEEL TO BE PAINTED
ALL NOTES ARE TYPICAL
ALL NEW STRUCTURAL MEMBERS TO BE FULLY WELDED INTO A RIGID FRAME
EXISTING FRAMING AND UNIT LOCATION TO BE CONFIRMED WITH A/E PRIOR TO FABRICATION

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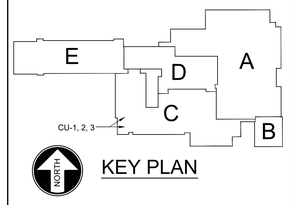

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

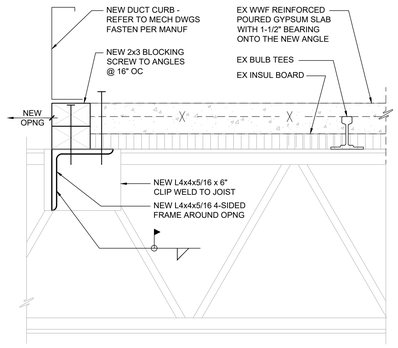
DRAWING TITLE:
PARTIAL ROOF FRAMING PLAN AND DETAILS

DRAWN BY:	CHECKED BY:
DJL	EDM
DATE:	PROJECT NO:
06/27/2025	2025-005

DRAWING NO:

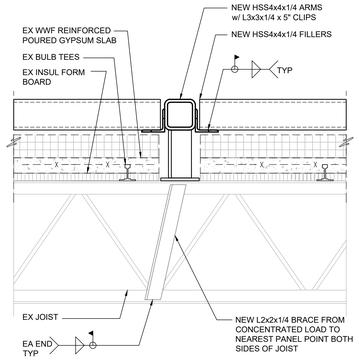
S-204

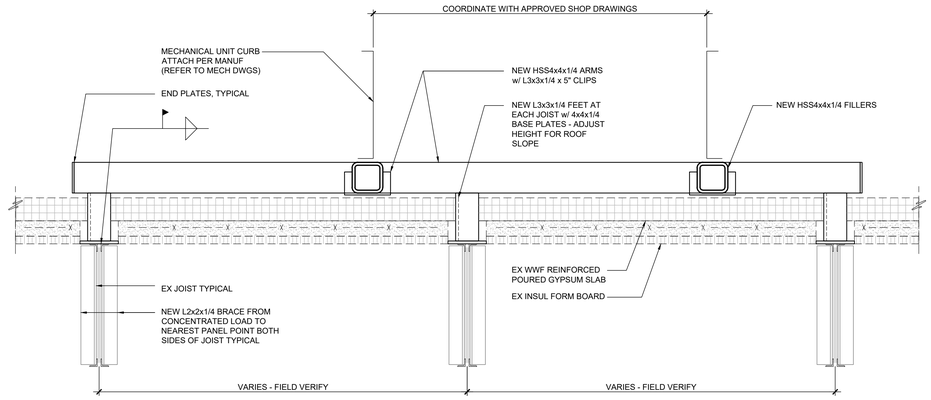
CAD FILE: S005-S202.DWG PLOT DATE: 10/31/2025



NEW OPENING DETAIL THRU GYPSUM DECK

NOT TO SCALE (4)

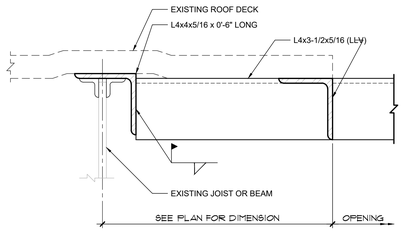


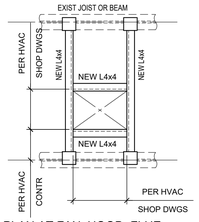


TYPICAL ROOFTOP MECHANICAL UNIT SUPPORTS ON POURED GYPSUM ROOFS

NOT TO SCALE (8)

field locate bulb tees and adjust unit location to avoid cutting bulb tees



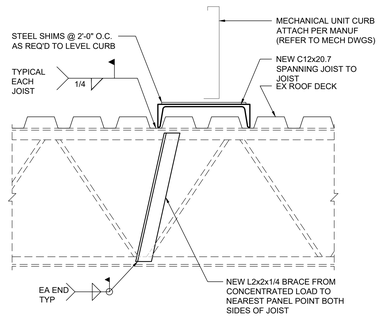


PLAN AT FAN, HOOD, FLUE, COND

TYPICAL DROP-IN FRAME DETAIL REQUIRED FOR ALL NEW ROOF OPENINGS

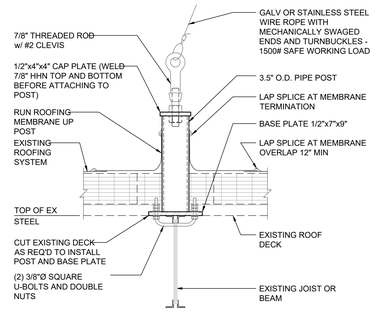
NOT TO SCALE (4)

- ALL NEW STEEL ANGLES AND SUPPORTS TO BE PRIME PAINTED
- DROP-IN FRAMES ARE REQUIRED FOR ALL OPENINGS LARGER THAN 13"x13" AND FOR SUPPORT OF CONDENSERS



TYPICAL ROOF MECHANICAL UNIT SUPPORTS

NOT TO SCALE (8)



TYPICAL DETAIL AT GUY WIRE ON EXISTING STEEL

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

NOTES:

FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO STARTING WORK

REMOVE EXISTING ROOFING AND INSULATION AS REQUIRED TO INSTALL PIPE POST, INFILL VOID WITH RIGID INSULATION AND REPAIR ROOF

ALL ROOF WORK SHALL BE DONE IN ACCORDANCE WITH EXISTING ROOF MANUFACTURER'S RECOMMENDATIONS SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES. CONSULT WITH EXISTING ROOF MANUFACTURER PRIOR TO DOING ANY WORK

REFER TO MECH DWGS FOR GUY WIRE LOCATIONS

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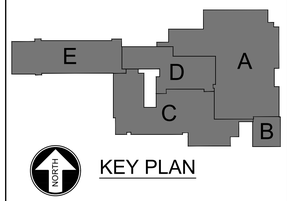

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project Phase 1

SEALS:

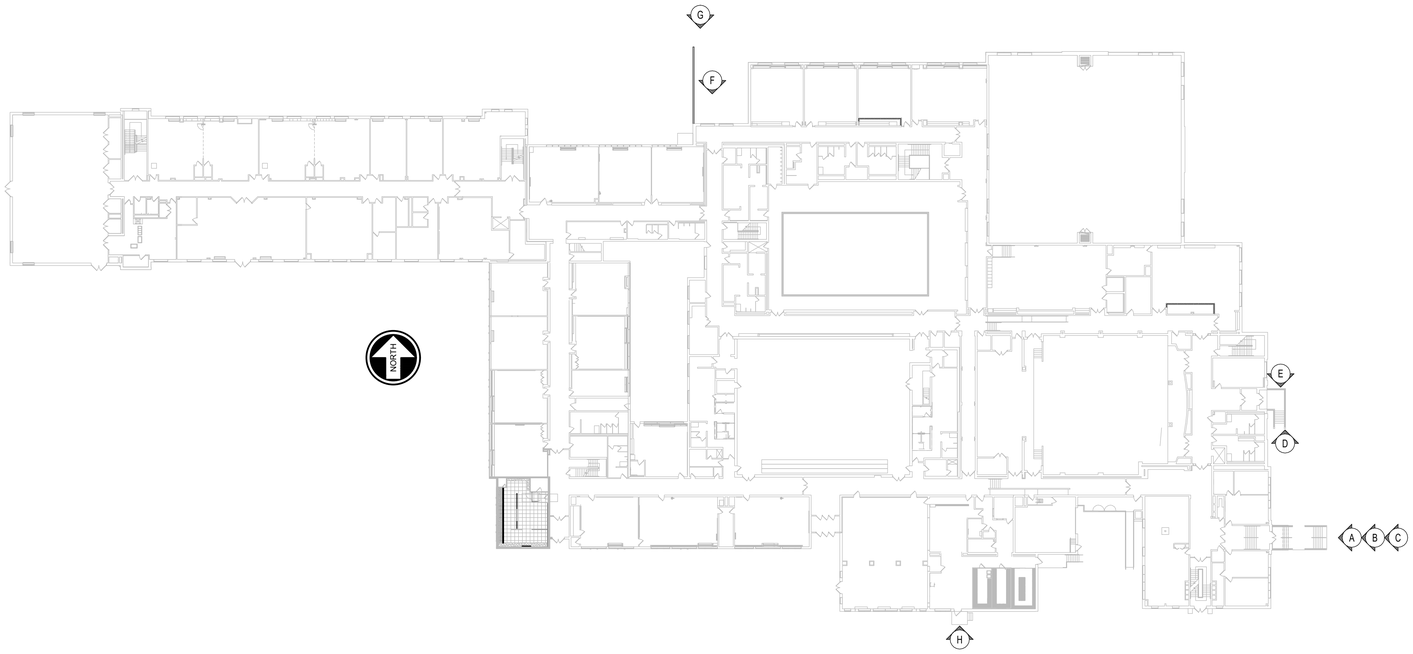
DRAWING TITLE:
SECTIONS AND DETAILS

DRAWN BY:	CHECKED BY:
DJL	EDM
DATE:	PROJECT NO:
06/27/2025	2025-005

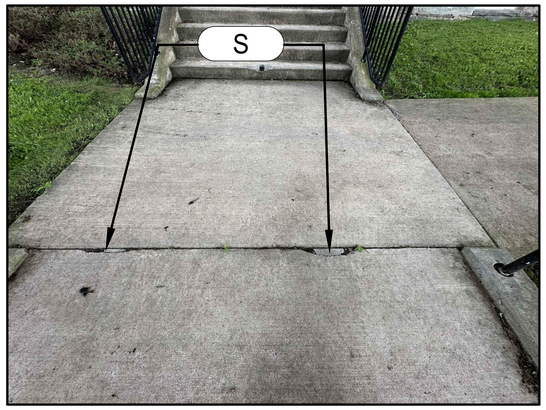
DRAWING NO:

S-301

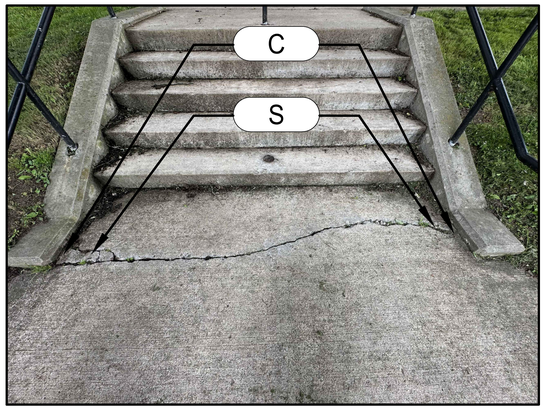
CAD FILE: 5005-S301.DWG PLOT DATE: 10/31/2025



A S-701 **STAIR A SPALLING REPAIR**
SCALE: NOT TO SCALE

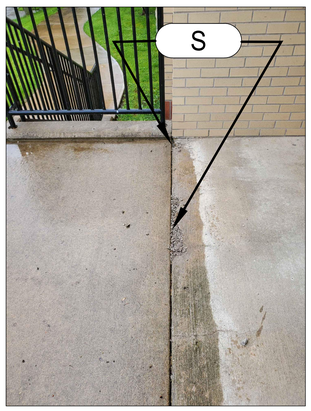


B S-701 **STAIR A CONCRETE SEALING**
SCALE: NOT TO SCALE



C S-701 **STAIR A CONCRETE SEALING**
SCALE: NOT TO SCALE

D S-701 **STAIR B CONCRETE SEALING**
SCALE: NOT TO SCALE



E S-701 **STAIR B SPALLING REPAIR**
SCALE: NOT TO SCALE

GENERAL NOTES

1. THE SCOPE OF WORK SHALL INCLUDE THE FURNISHING OF ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND SERVICES REQUIRED TO COMPLETE CONCRETE REPAIR WORK.
2. GENERAL CONTRACTOR SHALL COORDINATE ALL CONTRACT WORK, INCLUDING SCHEDULING WORK OF SUB-CONTRACTORS, INSPECTIONS, TESTING AGENCIES, ETC. AS MAY BE REQUIRED FOR PROPER PERFORMANCE OF THE WORK.
3. THE ARCHITECT RESERVES THE RIGHT TO REJECT ANY MATERIAL, WHICH DOES NOT CONFORM TO CONTRACT DOCUMENTS ANY TIME BEFORE FINAL ACCEPTANCE.
4. MANUFACTURER SHALL BE PRODUCER OF PRODUCTS SPECIFICALLY DESIGNED FOR VERTICAL / OVERHEAD CONCRETE REPAIRS.
5. INSTALLER SHALL HAVE A MINIMUM OF 5 YEARS EXPERIENCE WITH INSTALLATION OF CONCRETE REPAIRS IN NORTHEASTERN UNITED STATES.
6. ONE INSTALLER SHALL PERFORM ALL THE WORK.
7. ONE MANUFACTURER SHALL SUPPLY ALL PRODUCTS UNLESS SPECIFICALLY NOTED OTHERWISE HEREIN.
8. ALL PREPARATION SHALL BE CONSIDERED INCIDENTAL. ADDITIONAL STEPS OF PREPARATION MAY BE REQUIRED. REFER TO MANUFACTURER'S LITERATURE FOR EXACT STEPS REQUIRED, HOT AND COLD WEATHER PROTECTION OF ADJACENT SURFACES, CURING, BARRICADES, PROTECTION UNTIL OWNER ACCEPTANCE.
10. ALL REPAIRS SHALL BE IN FULL CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS (INCLUDING WAIT, SET AND WORKING TIMES) AND INTERNATIONAL CONCRETE REPAIR INSTITUTE GUIDELINES.
11. SUBMITTALS:

A. MANUFACTURER'S LITERATURE:

1. LITERATURE FOR EACH PRODUCT WITH ENOUGH INFORMATION TO PROVE THE REQUIREMENTS HAVE BEEN MET.
2. SHIP LIST FROM MATERIAL SUPPLIER INDICATING QUANTITIES OF EACH PRODUCT PURCHASED.
3. SAMPLE COLOR CHIPS.
4. MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AS PROVIDED TO THE INSTALLER.

B. APPLICATOR QUALIFICATIONS:

1. LETTER ATTESTING TO MANUFACTURER'S QUALIFICATIONS AS REQUIRED BY QUALITY ASSURANCE. LIST REPAIR PROJECTS WITHIN THE LAST 5 YEARS OF SIMILAR SIZE AND SCOPE.
2. LETTER OF COMPLETION OF PROJECTS STATING INSTALLATION HAS BEEN PERFORMED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTION.

C. MANUFACTURER'S REPRESENTATIVE LETTER:

1. LETTER ATTESTING TO MANUFACTURER'S REPRESENTATIVE TO INSTRUCT INSTALLER ON SITE IN PROPER INSTALLATION TECHNIQUES.

12. CONDITION PRODUCTS TO SPACE FOR 24 HOURS PRIOR TO USE. HANDLE ALL PRODUCTS WITH APPROPRIATE PRECAUTIONS AND CARE AS STATED ON MATERIAL SAFETY DATA SHEET.
13. PROTECT SURROUNDINGS EXISTING AREAS AND NEW WORK FROM DAMAGE DUE TO CONCRETE REPAIRS, PAINT REMOVERS, SAND BLASTING, WATER BLASTING, APPLICATION OF COATINGS, ETC.
14. CLEAN UP:
    1. REMOVE ALL PRIMERS, PATCHING MATERIALS, SEALANTS, ETC. FROM SURROUNDING AREAS.
    2. ANY REPAIRS REQUIRED SHALL BE PERFORMED TO THE SATISFACTION OF THE ARCHITECT.
    3. DISPOSE OF ALL DEBRIS IN AN APPROVED LEGAL MANNER.
15. PRODUCT MANUFACTURER'S REPRESENTATIVE SHALL VISIT PROJECT SITE UPON COMPLETION OF PREPARATION TO VERIFY PREPARATION IS IN ACCORDANCE WITH MANUFACTURER'S PROCEDURES AND INSTRUCT INSTALLER IN APPLICATION PROCEDURE AND WITNESS APPLICATION OF PRODUCTS.
16. OWNER'S PROJECT REPRESENTATIVE SHALL BE PRESENT ON A ROUTINELY CONSTANT BASIS TO MONITOR THE PROGRESS AND VERIFY EACH STEP OF THE REPAIR PROCESS IS FOLLOWED.
17. APPROXIMATE EXTENT OF REPAIRS HAVE BEEN INDICATED BASED ON FIELD CONDITION AT TIME DRAWINGS WERE PREPARED. CONTRACTOR SHALL BE RESPONSIBILE TO VISIT THE SITE AND ASCERTAIN EXACT EXTENT OF REQUIRED REPAIRS AT BID TIME.

ALL CONCRETE REPAIR WORK SHALL BE CONTINUOUSLY INSPECTED BY AN INSPECTION AND TESTING AGENCY CONTRACTED WITH THE OWNER INSPECTOR SHALL HOLD AN INTERNATIONAL CONCRETE REPAIR INSTITUTE - CONCRETE SURFACE REPAIR TECHNICIAN (CSRT) CERTIFICATION, GRADE 1
PROVIDE ALL TEMPORARY SUPPORTS, BARRICADES, AND TEMPORARY PROTECTION UNTIL COMPLETION OF PROJECT

T CONCRETE CURB SEALING

THE ENTIRE CONCRETE CURB AROUND PERIMETER OF PIER (INCLUDING INTERIOR AND ENTIRE EXTERIOR EXPOSED FACES) SHALL BE PREPARED AND SEALED AS FOLLOWS:

CONCRETE SEALANT MATERIAL:
READY-TO-USE, WATER BASED, SILANE/SILOXANE, PENETRATING WATER REPELLANT AND SEALER WATER AND CHLORIDE BARRIER FOR MARINE ENVIRONMENTS

PRODUCT: EUCLID BARACADE WB244

1. STORE MATERIALS BETWEEN 40° AND 90°, PROTECT FROM FREEZING
2. REMOVE LOOSE MATERIAL BY PRESSURE WASHING. SURFACE SHALL BE CLEAN, SOUND, FREE OF ANY COATINGS, PAINT, EFFLORESCENCE, CURING COMPOUND, FOREIGN PARTICLES, OIL, DIRT, GREASE, LAITANCE, ETC. WHICH WILL ADVERSELY AFFECT BONDING OF SEALER
3. ALLOW SURFACE TO COMPLETELY DRY FOR A MINIMUM OF 24 HOURS
4. MASK ALL ADJACENT SURFACES
5. DO NOT APPLY IF RAIN IS EXPECTED WITHIN 12 HOURS
6. SURFACE TEMPERATURE SHALL BE 45° F. AND RISING. PROVIDE VENTED HEATERS AND TENTING AS REQUIRED.
7. FLOOD SURFACE USING LOW-PRESSURE, NON-ATOMIZING, AIRLESS SPRAYER. DISTRIBUTE EVENLY; DO NOT ALLOW TO PUDDLE. WORK VERTICAL SURFACES FROM BOTTOM UP.
8. PROVIDE PROTECTION UNTIL COMPLETION OF PROJECT.

FOR ADDITIONAL REQUIREMENTS, REFER TO MANUFACTURER'S INSTRUCTIONS.

C HORIZONTAL CRACK REPAIRS

ALL CRACKS IN WIDER THAN 1/32" SHALL BE REPAIRED AS FOLLOWS:

SURFACE CRACK REPAIR MATERIAL:
TWO-COMPONENT, ULTRA-LOW VISCOSITY, HYBRID URETHANE ELASTOMERIC SEALANT

PRODUCT: EUCLID EUCO QUIKSTITCH

1. CONDITION ALL MATERIALS TO 60° TO 80°
2. CLEAN JOINTS WITH DIAMOND BLADE SAW, WIRE WHEEL GRINDER, AND WIRE HAND BRUSH FREE OF MOISITURE, COATINGS, PAINT, CURING COMPOUND, FOREIGN PARTICLES, PREVIOUS COATINGS, OIL, DUST GREASE, WAX LAITANCE, ETC.
3. REMOVE DUST AND DEBRIS USING INDUSTRIAL VACUUM OR OIL-FREE COMPRESSED AIR. ALL SURFACES MUST BE CLEAN AND DRY PRIOR TO PROCEEDING.
4. SHAKE CARTRIDGES FOR NOT LESS THAN TWO MINUTES AND ALLOW TO STAND ONE MINUTE.
5. FILL CRACKS 3/16" AND LARGER WITH KILN-DRIED MEDIUM GRADE (30 MESH) SILICA SAND.
6. GUN DIRECTLY INTO CRACKS AND ALLOW TO PENETRATE AND SATURATE CRACK. TOP OFF AS REQUIRED.
7. SPRINKLE SURFACE WITH KILN-DRIED MEDIUM GRADE SILICA SAND TO MATCH TEXTURE OF SURROUNDING SURFACES.

FOR ADDITIONAL REQUIREMENTS, REFER TO MANUFACTURER'S INSTRUCTIONS.

S SPALL REPAIRS

ALL CONCRETE SPALLS IN THE EXSITING CONCRETE SHALL BE REPAIRED AS FOLLOWS:

SPALL REPAIR MATERIAL:
ONE COMPONENT, SHRINKAGE-COMPENSATING, POLYMER AND MICROFIBER-MODIFIED REPAIR MORTAR, PRODUCING A TROWEL-GRADE MORTAR SUITABLE FOR VERTICAL OR OVERHEAD REPAIRS, PLACEABLE FROM 1" TO 6" PER LIFT, INTEGRAL CORROSION INHIBITOR, AND RAPID CHLORIDE PERMEABILITY RESISTANCE.

PRODUCT: EUCLID EUCOREPAIR SCC

REINFORCEMENT CORROSION INHIBITOR:
THREE COMPONENT, EPOXY AND CEMENTITIOUS PRODUCT SPECIFICALLY FORMULATED AS A BONDING AGENT AND ANTI-CORROSION COATING

PRODUCT: DURAL PREP AC.

1. CONDITION ALL MATERIAL TO 60° TO 90°
2. REMOVE LOOSE MATERIAL BY HAND OR MECHANICALLY WITH CHIPPING HAMMER, CHISEL, SANDBLASTING UNTIL SOUND MATERIAL IS REACHED FOR AN APPROXIMATE SIZE INDICATED ON PLAN
3. PREPARE EXISTING CONCRETE TO HAVE A FRACTURED AGGREGATE PROFILE OF ; 1/16 INCH TO ENSURE PROPER ADHESION (EQUIVALENT TO ICRI CSP5-7 / MEDIUM TO HEAVY SHOT-BLAST).
4. CLEAN ANY EXPOSED REINFORCING TO WHITE METAL FINISH BY SAND-BLASTING. CHIP BACK BEHIND/OVER REBAR TO A DISTANCE OF 3/4" ALL-AROUND. PRESSURE WASH TO REMOVE CHLORIDE CONTAMINATION.
5. SAW-CUT STRAIGHT EDGES AROUND PERIMETER OF PATCHING AREA TO A MINIMUM DEPTH OF 1" TO ELIMINATE FEATHER-EDGES.
6. INSPECT SURFACES TO RECEIVE REPAIR MORTAR TO ENSURE THAT SUBSTRATE IS CLEAN, SOUND, FREE OF ANY COATINGS, PAINT, EFFLORESCENCE, CURING COMPOUND, FOREIGN PARTICLES, OIL, DIRT, GREASE, LAITANCE, ETC. WHICH WILL ADVERSELY AFFECT BONDING OF REPAIR MATERIALS.
7. SURFACE TEMPERATURE SHALL BE 45° F. AND RISING. PROVIDE VENTED HEATERS AND TENTING AS REQUIRED.
8. SATURATE BASE CONCRETE TO BE REPAIRED, THEN ALLOW SURFACE TO DRY TO "SATURATED SURFACE DRY" CONDITION.
9. CONSTRUCT FORMWORK AS RQUIRED AND TEST FOR WATER-TIGHTNESS
10. PRE-MIX COMPONENTS (A) AND (B) OF CORROSION INHIBITOR SEPARATELY FOR I MINUTE EACH MINIMUM WITH LOW-SPEED DRILL AND #P1 OR #P2 PADDLES IN A NEW CLEAN DRY CONTAINER. COMBINE ALL OF COMPONENTS (A) AND (B) AND MIX FOR 45 SECONDS. GRADUALLY ADD COMPONENT (C) AND MIX FOR A MINIMUM OF 3 MINUTES. SCRAPE BOTTOM AND SIDES AT LEAST ONCE DURING MIXING BUT NOT AFTERWARDS.
11. APPLY ANTI-CORROSION INHIBITOR TO ALL SURFACES OF REINFORCING AND EMBEDDED METALS INCLUDING BACK FACES. APPLY FIRST COAT TO THICKNESS OF 25 MILS.
12. ALLOW 3 TO 6 HOURS TO DRY.
13. APPLY SECOND COAT OF ANTI-CORROSION INHIBITOR TO 25 MILS THICKNESS.
14. MIX SPALL REPAIR MATERIAL USING HORIZONTAL SHAFT PADDLE-TYPE MIXER. IN A NEW CLEAN DRY CONTAINER COMBINE WATER THEN DRY PRODUCT. USE NO MORE THAN 1/2 GALLON OF POTABLE WATER PER BAG. MIX A MINIMUM OF 3 MINUTES.
15. APPLY SPALL REPAIR MATERIAL AS A SCRUB-COAT TO THE SATURATED SURFACE DRY CONCRETE BY STIFF BRISTLE BRUSH WORKING INTO SUBSTRATE TO ENSURE A COMPLETE COVERAGE OF CONCRETE INCLUDING BACK FACE BEHIND REINFORCING.
16. PLACE SPALL REPAIR MATERIAL ONTO SCRUB COAT. DO NOT APPLY PATCH TO DRY SCRUB COAT. KEY IN AND COMPACT THOROUGHLY TO SECURE BOND.
17. WET CURE PATCH AREA WITH PLASTIC FOR 2 WEEKS. PROVIDE PROTECTION UNTIL COMPLETION OF PROJECT.

FOR ADDITIONAL REQUIREMENTS, REFER TO MANUFACTURER'S INSTRUCTIONS.

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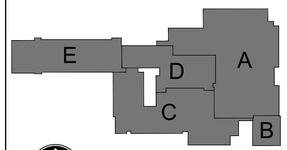

KEY PLAN

SED SUBMISSION
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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

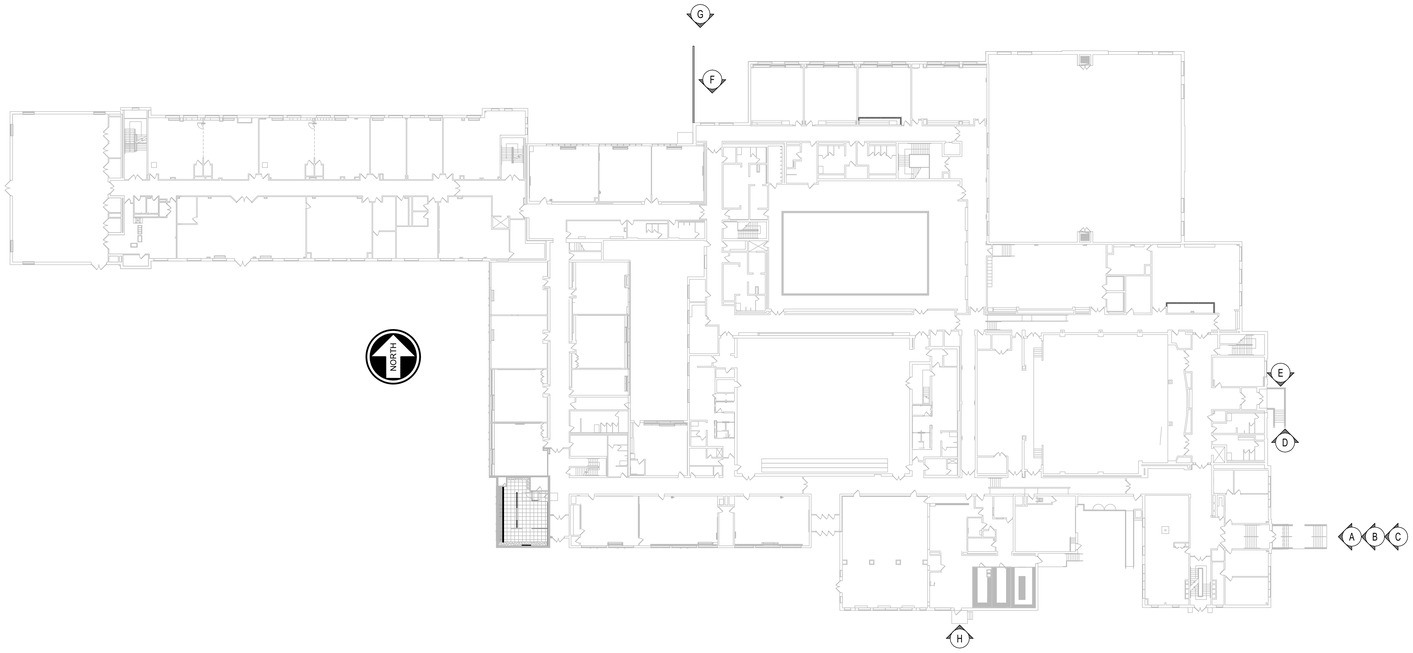
EXTERIOR CONCRETE REPAIRS

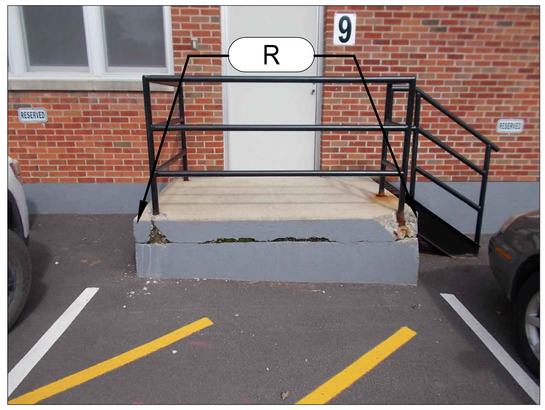
DRAWN BY:	CHECKED BY:
NAC	EDM
DATE:	PROJECT NO:
06/27/2025	2025-005

DRAWING NO:

S-701

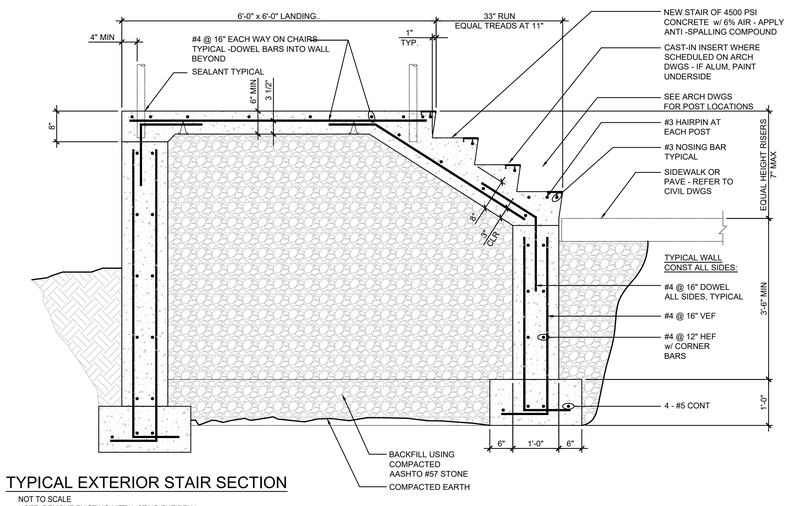
CAD FILE: 5005-S701.DWG PLOT DATE: 10/31/2025



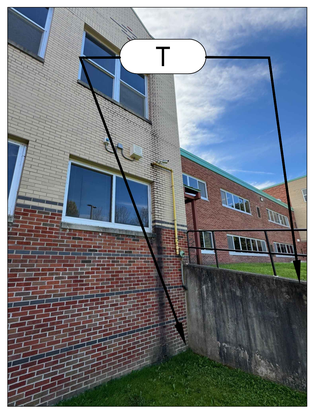


H S-701 **DOOR 9 LANDING AND STAIR REPLACEMENT**
SCALE: NOT TO SCALE

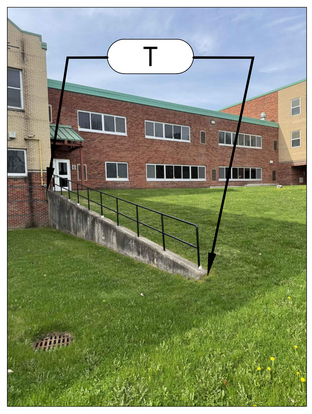
R PHOTO F
REFER TO SECTION ON THIS SHEET



TYPICAL EXTERIOR STAIR SECTION
NOT TO SCALE
NOTE: REMOVE EXISTING METAL STAIR ENTIRELY



F S-701 **RETAINING WALL SEALING**
SCALE: NOT TO SCALE



G S-701 **RETAINING WALL SEALING**
SCALE: NOT TO SCALE

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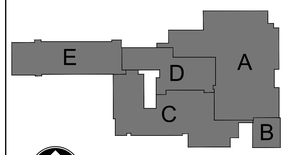

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:
EXTERIOR CONCRETE REPAIRS

DRAWN BY:	CHECKED BY:
NAC	EDM
DATE:	PROJECT NO:
06/27/2025	2025-005

DRAWING NO:
S-702

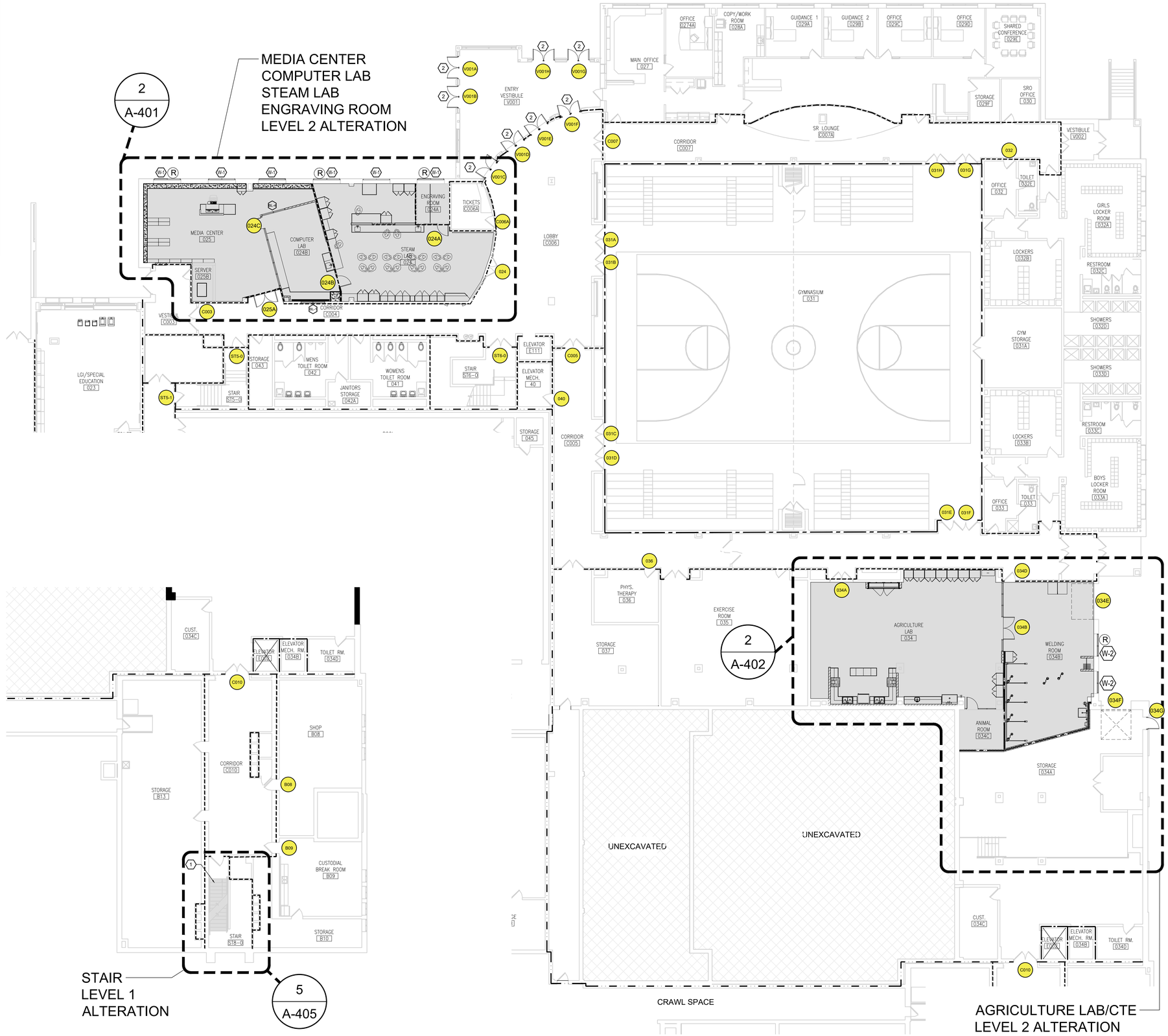
CAD FILE: 5005-S701.DWG PLOT DATE: 10/31/2025

DRAWING LEGEND

- INDICATES AREA OF ALTERATION
- EXISTING WALL CONSTRUCTION TO REMAIN
- NEW WALL CONSTRUCTION
- EXISTING DOOR TO REMAIN
- WIRE GLASS REPLACEMENT IN EXISTING DOOR (XXX)
- NEW DOOR AND FRAME
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- 000 — INDICATES DOOR NUMBER
- W-X — INDICATES WINDOW TYPE
- X — CONSTRUCTION KEY NOTE INDICATOR
- BL-X — INDICATES BORROWED LITE TYPE

CONSTRUCTION KEY NOTES

1. REPLACE RUBBER STAIR TREADS, RISERS, AND LANDINGS TO MATCH EXISTING.
2. REMOVE AND REPLACE ENTIRE DOOR.



2 / A-100 — GROUND FLOOR COMPOSITE PLAN (PART B)
SCALE: 3/32" - 1'-0"

1 / A-100 — GROUND FLOOR COMPOSITE PLAN (PART A)
SCALE: 3/32" - 1'-0"

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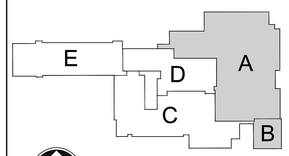

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

GROUND FLOOR COMPOSITE PLAN (PART A/B)

DRAWN BY:	CHECKED BY:
R.J.C. / A.L.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

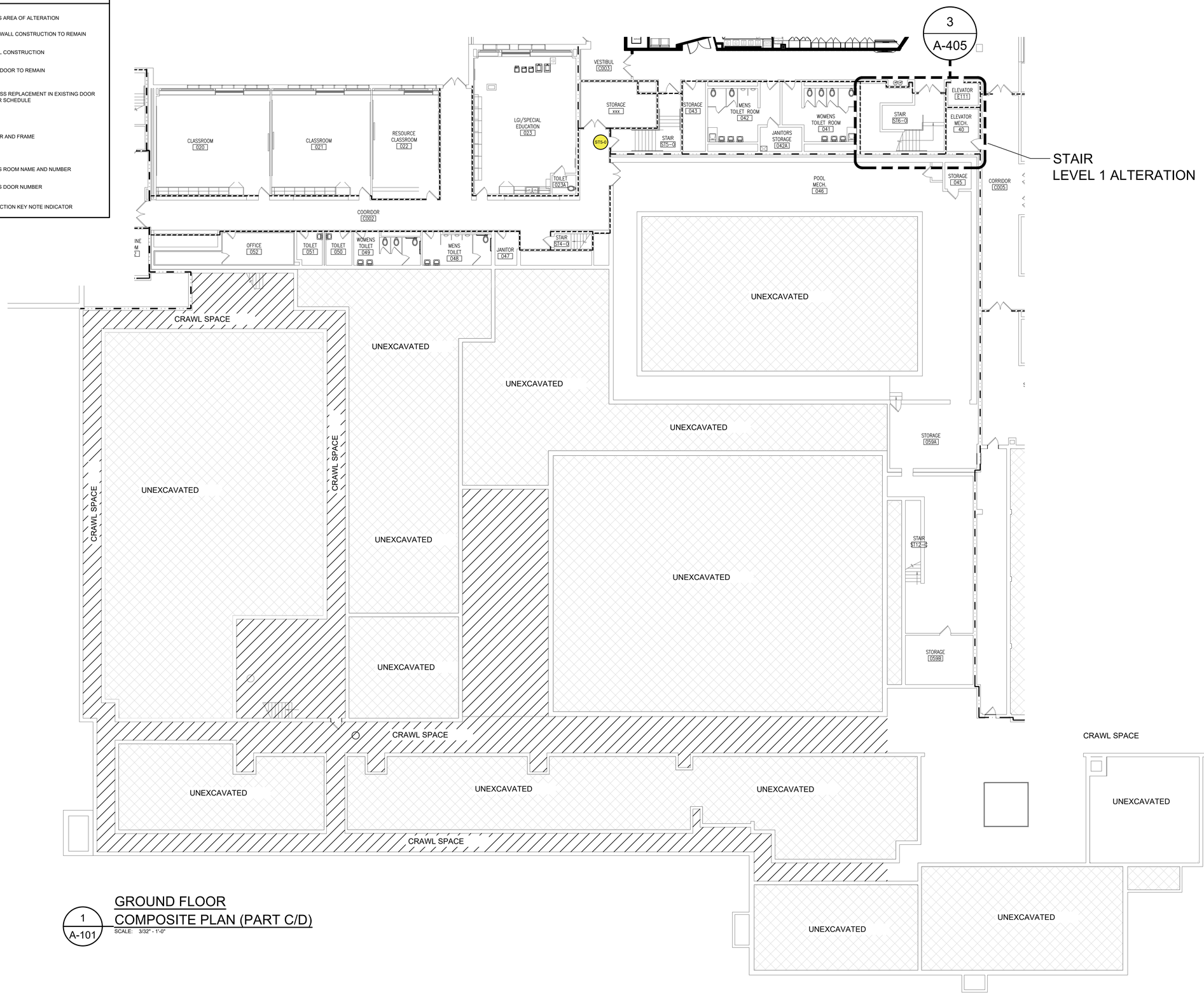
DRAWING NO:

A-100

CAD FILE: 5005-A-100.DWG PLOT DATE: 11/10/2025

DRAWING LEGEND

- INDICATES AREA OF ALTERATION
- EXISTING WALL CONSTRUCTION TO REMAIN
- NEW WALL CONSTRUCTION
- EXISTING DOOR TO REMAIN
- XXX — WIRE GLASS REPLACEMENT IN EXISTING DOOR SEE DOOR SCHEDULE
- NEW DOOR AND FRAME
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- 000 — INDICATES DOOR NUMBER
- X — CONSTRUCTION KEY NOTE INDICATOR



1 / A-101 GROUND FLOOR COMPOSITE PLAN (PART C/D)
SCALE: 3/32" - 1'-0"

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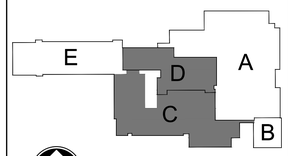

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PROJECT TITLE:

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29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:
GROUND FLOOR COMPOSITE PLAN (PART C/D)

DRAWN BY:	CHECKED BY:
R.J.C. / A.L.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

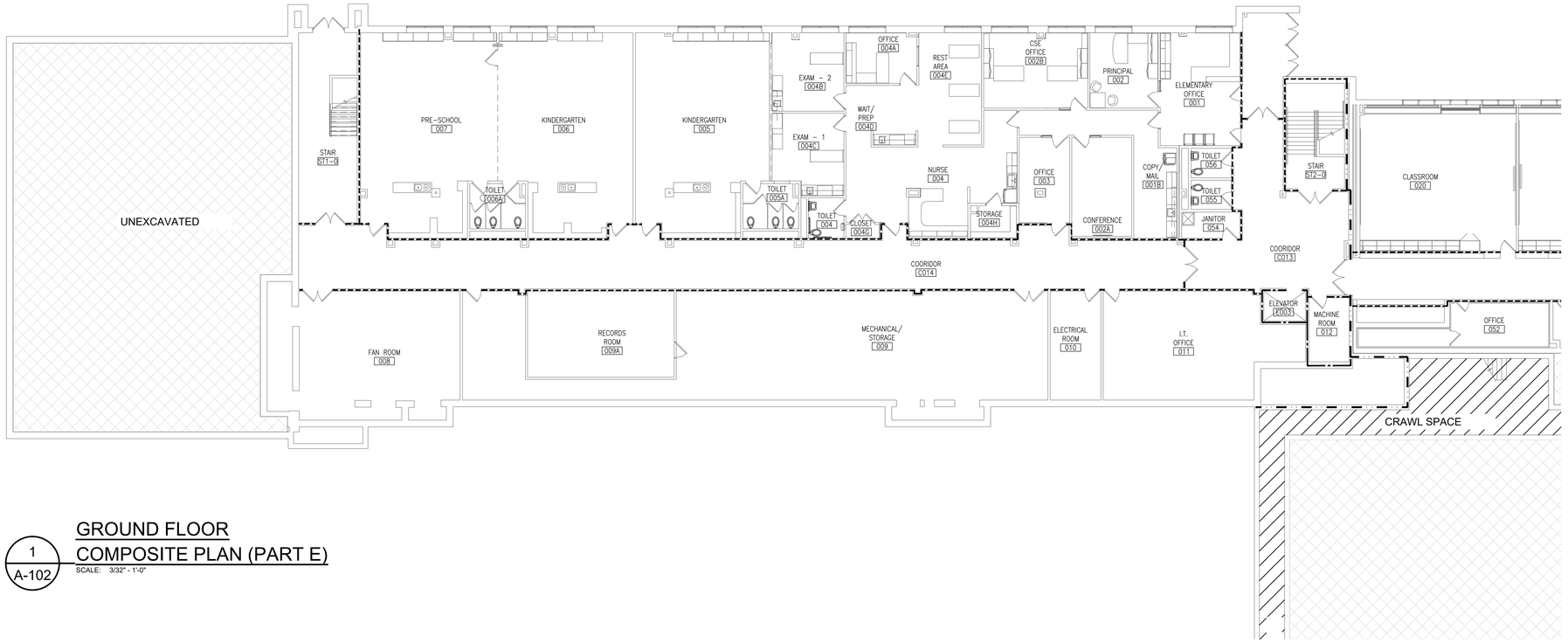
A-101

CAD FILE: 5005-A-101.DWG PLOT DATE: 11/10/2025

DRAWING LEGEND

- INDICATES AREA OF ALTERATION
- EXISTING WALL CONSTRUCTION TO REMAIN
- NEW WALL CONSTRUCTION
- EXISTING DOOR TO REMAIN
- WIRE GLASS REPLACEMENT IN EXISTING DOOR (XXX)
- NEW DOOR AND FRAME
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- (000) — INDICATES DOOR NUMBER
- (X) — CONSTRUCTION KEY NOTE INDICATOR

NOTE: NO CONSTRUCTION IN THIS AREA.



1 / A-102 GROUND FLOOR COMPOSITE PLAN (PART E)

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

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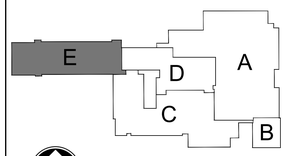

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PROJECT TITLE:

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29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

GROUND FLOOR COMPOSITE PLAN (PART E)

DRAWN BY:	CHECKED BY:
R.J.C. / A.L.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

A-102

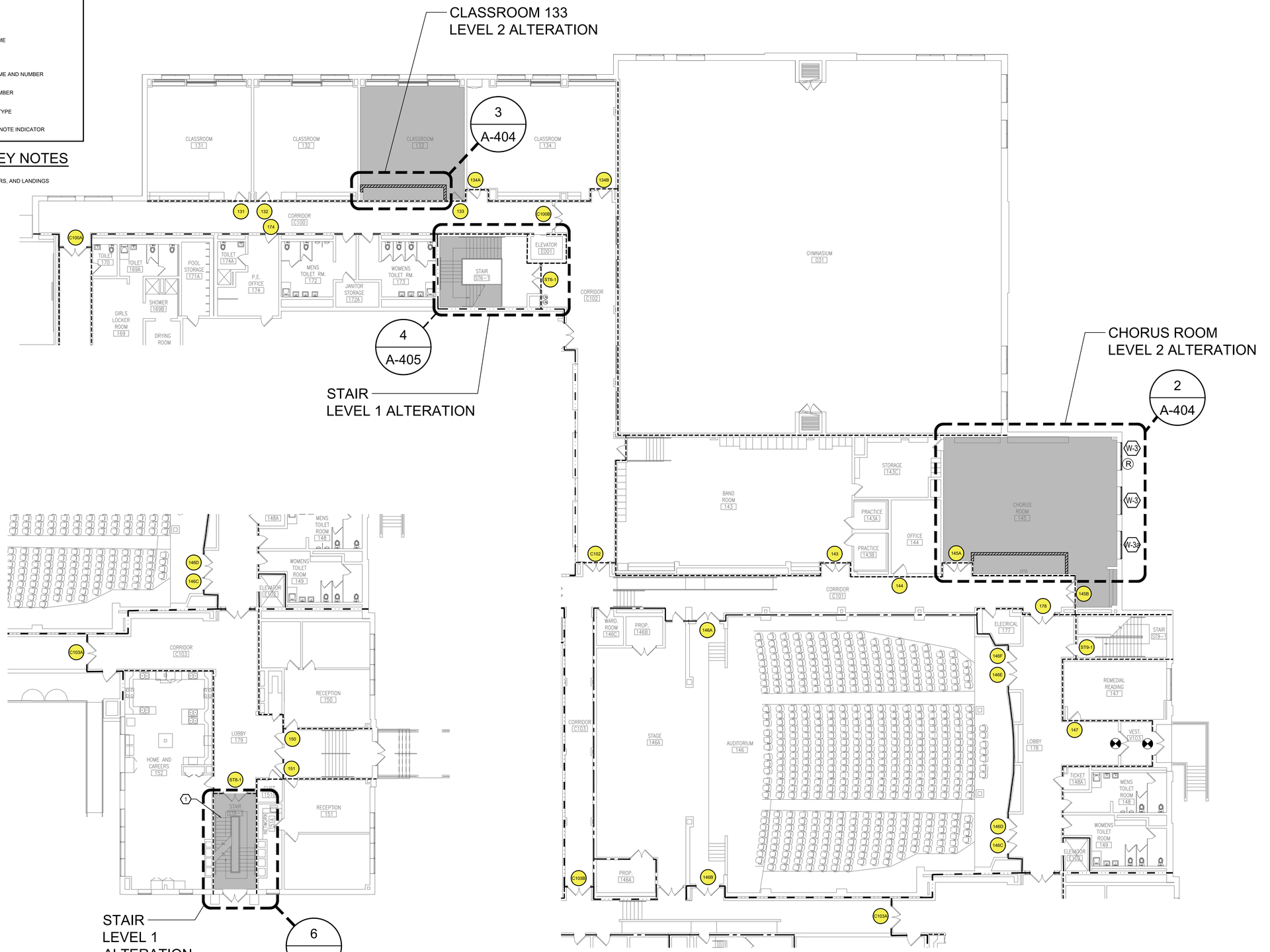
CAD FILE: 5005-A-102.DWG PLOT DATE: 11/10/2025

DRAWING LEGEND

- INDICATES AREA OF ALTERATION
- EXISTING WALL CONSTRUCTION TO REMAIN
- NEW WALL CONSTRUCTION
- EXISTING DOOR TO REMAIN
- WIRE GLASS REPLACEMENT IN EXISTING DOOR — XXX
- NEW DOOR AND FRAME
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- 000 — INDICATES DOOR NUMBER
- W-X — INDICATES WINDOW TYPE
- X — CONSTRUCTION KEY NOTE INDICATOR

CONSTRUCTION KEY NOTES

1. REPLACE RUBBER STAIR TREADS, RISERS, AND LANDINGS TO MATCH EXISTING.



2 A-103 FIRST FLOOR COMPOSITE PLAN (PART B)
SCALE: 3/32" - 1'-0"

1 A-103 FIRST FLOOR COMPOSITE PLAN (PART A)
SCALE: 3/32" - 1'-0"

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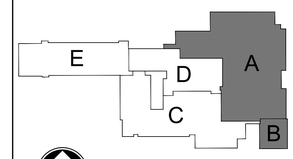

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:
FIRST FLOOR COMPOSITE PLAN (PART A/B)

DRAWN BY:	CHECKED BY:
R.J.C. / A.L.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

A-103

CAD FILE:5005-A-103.DWG PLOT DATE:11/10/2025

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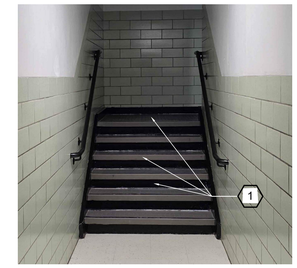
DRAWING LEGEND

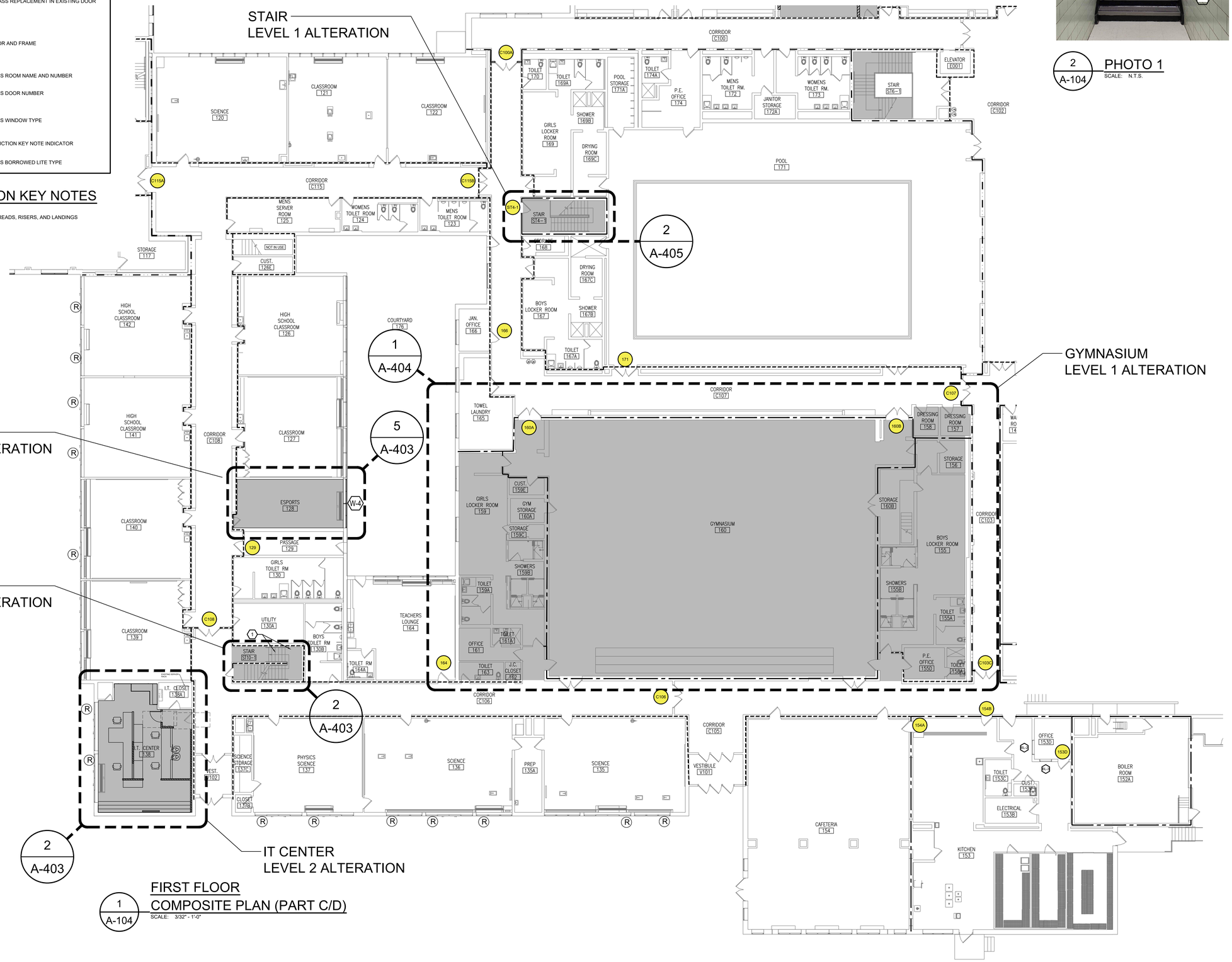
- INDICATES AREA OF ALTERATION
- EXISTING WALL CONSTRUCTION TO REMAIN
- NEW WALL CONSTRUCTION
- EXISTING DOOR TO REMAIN
- WIRE GLASS REPLACEMENT IN EXISTING DOOR
- XXX — NEW DOOR AND FRAME
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- 000 — INDICATES DOOR NUMBER
- W-# — INDICATES WINDOW TYPE
- X — CONSTRUCTION KEY NOTE INDICATOR
- BL-X — INDICATES BORROWED LITE TYPE

CONSTRUCTION KEY NOTES

1. REPLACE RUBBER STAIR TREADS, RISERS, AND LANDINGS TO MATCH EXISTING.



2 / A-104 — PHOTO 1
SCALE: N.T.S.



1 / A-104 — FIRST FLOOR COMPOSITE PLAN (PART C/D)
SCALE: 3/32" = 1'-0"

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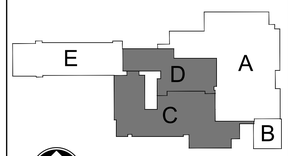

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SEALS:

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DATE:	PROJECT NO:
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DRAWING NO:

A-104

CAD FILE: 5005-A-104.DWG PLOT DATE: 11/10/2025

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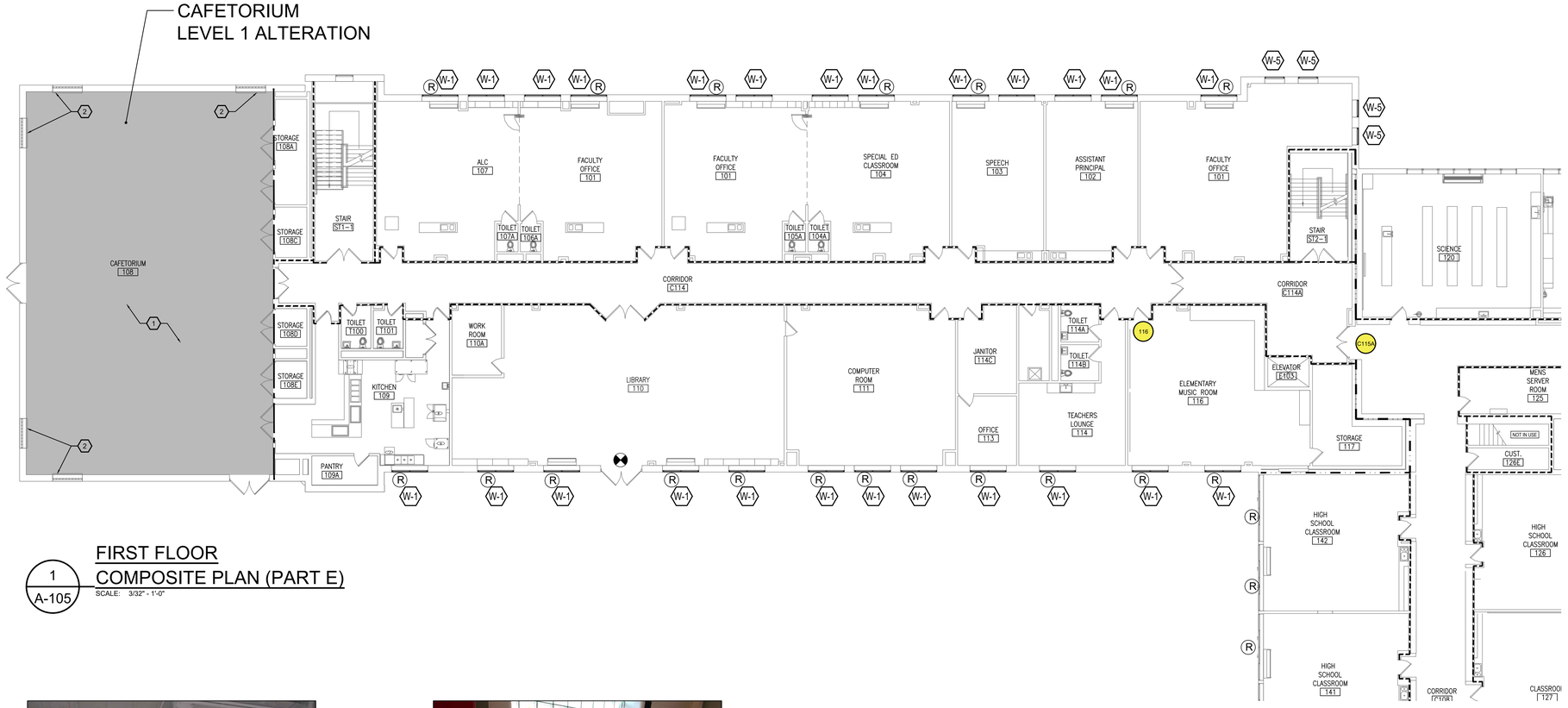
DRAWING LEGEND

- INDICATES AREA OF ALTERATION
- EXISTING WALL CONSTRUCTION TO REMAIN
- NEW WALL CONSTRUCTION
- EXISTING DOOR TO REMAIN
- WIRE GLASS REPLACEMENT IN EXISTING DOOR (XXX)
- NEW DOOR AND FRAME
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- (000) — INDICATES DOOR NUMBER
- (W-#) — INDICATES WINDOW TYPE, REFER TO WINDOW TYPE SHEET
- (X) — CONSTRUCTION KEY NOTE INDICATOR

CONSTRUCTION KEY NOTES

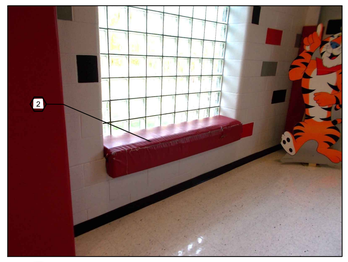
1. PREP AREA TO PAINT EXISTING DUCTWORK AND STEEL BEAMS DURING DEMOLITION.
2. REPLACE WALL PAD WINDOW SILLS WITH NEW WALL PADS TO MATCH EXISTING.

CAFETORIUM
LEVEL 1 ALTERATION



1 / A-105 — FIRST FLOOR COMPOSITE PLAN (PART E)
SCALE: 3/32" = 1'-0"

2 / A-105 — PHOTO 1
SCALE: N.T.S.



3 / A-105 — PHOTO 2
SCALE: N.T.S.

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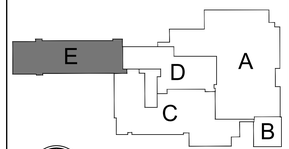

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2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

FIRST FLOOR COMPOSITE PLAN (PART E)

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DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

A-105

CAD FILE:2025-A-105.DWG PLOT DATE:11/10/2025

DRAWING LEGEND

- INDICATES AREA OF ALTERATION
- EXISTING WALL CONSTRUCTION TO REMAIN
- NEW WALL CONSTRUCTION
- EXISTING DOOR TO REMAIN
- WIRE GLASS REPLACEMENT IN EXISTING DOOR (XXX)
- NEW DOOR AND FRAME
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- (000) — INDICATES DOOR NUMBER
- (X) — CONSTRUCTION KEY NOTE INDICATOR

CONSTRUCTION KEY NOTES

1. REPLACE RUBBER STAIR TREADS, RISERS, AND LANDINGS TO MATCH EXISTING.

1 A-106 — SECOND FLOOR COMPOSITE PLAN (PART A)
SCALE: 3/32" - 1'-0"

2 A-106 — SECOND FLOOR COMPOSITE PLAN (PART B)
SCALE: 3/32" - 1'-0"

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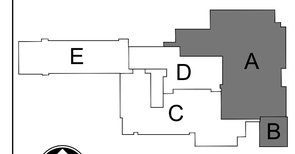

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2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

SECOND FLOOR COMPOSITE PLAN (PART A/B)

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R.J.C. / A.L.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

A-106

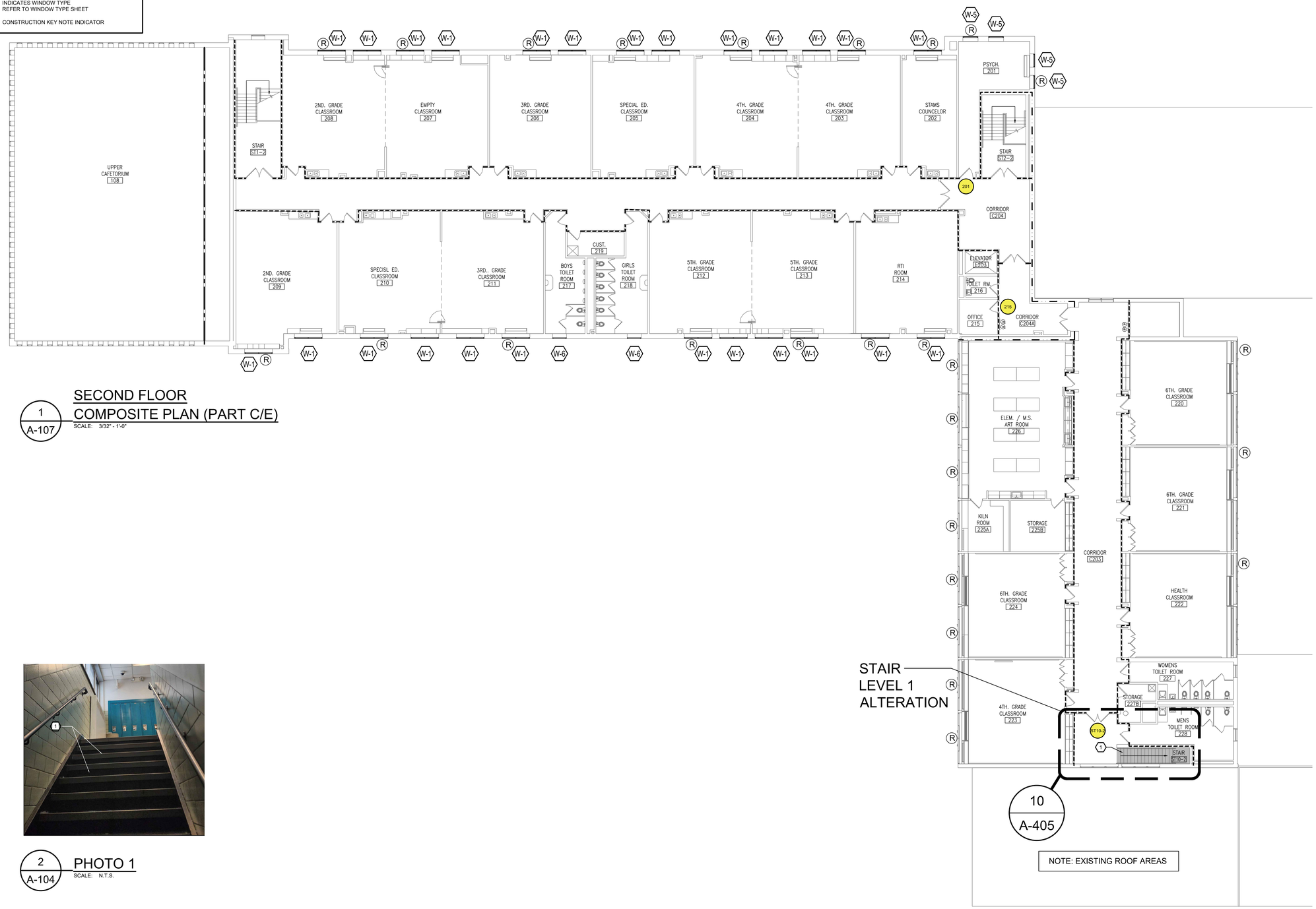
CAD FILE:5005-A-106.DWG PLOT DATE:11/10/2025

DRAWING LEGEND

- INDICATES AREA OF ALTERATION
- EXISTING WALL CONSTRUCTION TO REMAIN
- NEW WALL CONSTRUCTION
- EXISTING DOOR TO REMAIN
- WIRE GLASS REPLACEMENT IN EXISTING DOOR
- XXX
- NEW DOOR AND FRAME
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- 000 — INDICATES DOOR NUMBER
- W-# — INDICATES WINDOW TYPE. REFER TO WINDOW TYPE SHEET
- X — CONSTRUCTION KEY NOTE INDICATOR

CONSTRUCTION KEY NOTES

1. REPLACE RUBBER STAIR TREADS, RISERS, AND LANDINGS TO MATCH EXISTING.



1 / A-107 — SECOND FLOOR COMPOSITE PLAN (PART C/E)
SCALE: 3/32" - 1'-0"

2 / A-104 — PHOTO 1
SCALE: N.T.S.

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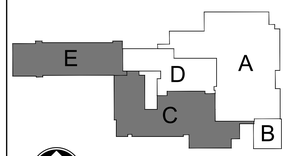

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2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:
SECOND FLOOR COMPOSITE PLAN (PART C/E)

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R.J.C. / A.L.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:
A-107

CAD FILE:5005-A-107.DWG PLOT DATE:11/10/2025

DRAWING LEGEND

(X) CONSTRUCTION KEY NOTE INDICATOR

CONSTRUCTION KEY NOTES

(1) GENERAL CONTRACTOR SHALL PROVIDE NEW ROOF CURBS AND PATCH EXISTING ROOF AS NEEDED FOR NEW STRUCTURAL AND MECHANICAL WORK. SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR SCOPE.

1 / A-108 ROOF COMPOSITE PLAN
SCALE: 1/16" - 1'-0"

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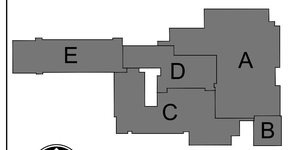

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2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:
ROOF COMPOSITE PLAN (PART A)

DRAWN BY:	CHECKED BY:
R.J.C.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:
A-108

CAD FILE: 5005-A-108.DWG PLOT DATE: 11/10/2025

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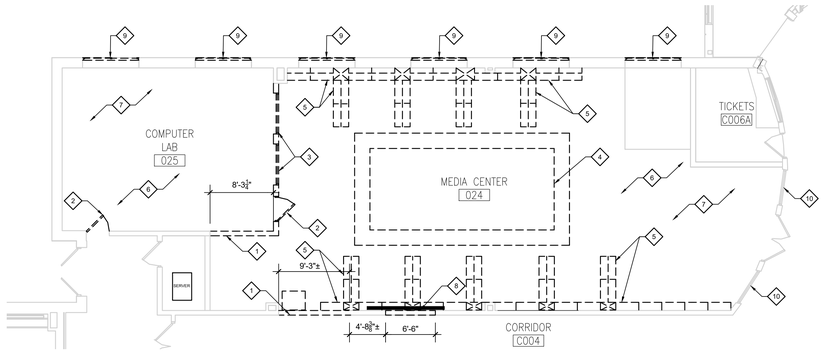


MEDIA CENTER DEMOLITION PLAN GROUND FLOOR (PART A)

1 / A-401

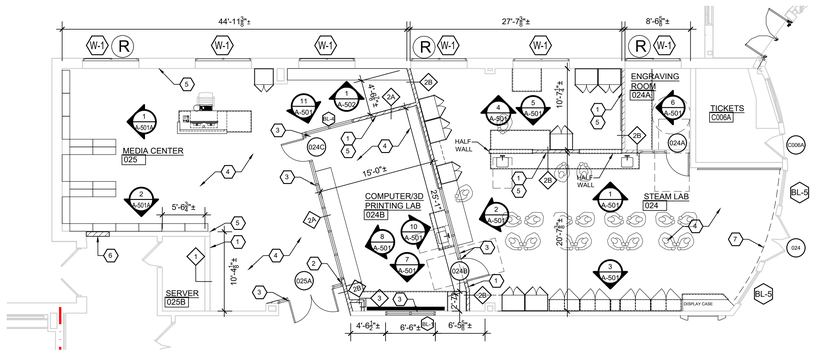
SCALE: 1/8"=1'-0"

DEMOLITION LEGEND

- EXISTING WALL CONSTRUCTION TO REMAIN
- EXISTING WALL CONSTRUCTION TO BE DEMOLISHED IN ITS ENTIRETY
- EXISTING DOOR TO REMAIN
- EXISTING DOOR, FRAME, AND HARDWARE TO BE REMOVED IN ITS ENTIRETY UNLESS OTHERWISE SPECIFIED
- DEMOLITION KEY NOTE INDICATOR

DEMOLITION KEY NOTES

1. REMOVE EXISTING INTERIOR WALL CONSTRUCTION IN ITS ENTIRETY INCLUDING WALL BASE, MISCELLANEOUS BRACING, ELEC. OUTLETS, WIRING, PIPING, ETC. (COORDINATE WITH ALL MEP DWGS.).
2. REMOVE EXISTING DOOR, FRAME, AND ALL ASSOCIATED HARDWARE.
3. REMOVE INTERIOR WINDOW AND FRAME.
4. REMOVE EXISTING CEILING SYSTEM(S), LIGHTING, DIFFUSERS AND SOFFITS IN THEIR ENTIRETY AS REQUIRED FOR NEW CONSTRUCTION.
5. REMOVE EXISTING SHELVING IN THEIR ENTIRETY AND HAND OVER TO OWNER.
6. REMOVE EXISTING CEILING SYSTEM(S), LIGHTING, DIFFUSERS AND SOFFITS IN THEIR ENTIRETY AS REQUIRED FOR NEW CONSTRUCTION.
7. ALL FLOOR FINISHES TO BE REMOVED. PATCH/REPAIR AND PREP SUBFLOOR FOR NEW FLOOR FINISHES.
8. REMOVE PART OF EXISTING INTERIOR WALL TO PREPARE FOR NEW 4'-10" X 6'-6" INTERIOR WINDOW. REMOVE PART OF WALL STARTING AT 3'-6" ABOVE EXISTING FLOOR.
9. REMOVE EXTERIOR WINDOW AND FRAME .
10. REMOVE EXISTING WIRED GLASS FROM EXISTING BORROWED LITE FRAME BL-5. GLASS TO BE REPLACED WITH FRSG FRAME TO REMAIN.



LEARNING COMMONS RENOVATION PLAN GROUND FLOOR (PART A)

2 / A-401

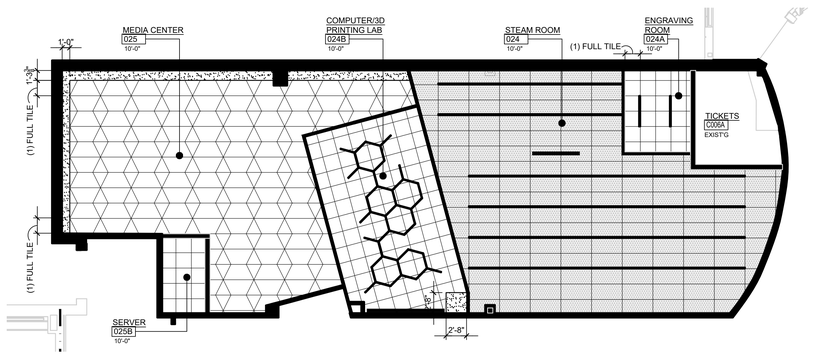
SCALE: 1/8"=1'-0"

CONSTRUCTION LEGEND

- EXISTING WALL CONSTRUCTION TO REMAIN
- NEW WALL CONSTRUCTION
- EXISTING DOOR TO REMAIN
- NEW DOOR AND FRAME
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- 000 — INDICATES DOOR NUMBER, SEE DOOR SCHEDULE AND DETAILS SHEET
- AV-# — WINDOW TAG, SEE WINDOW TYPES SHEET
- BL-X — BORROWED LIGHT WINDOW TYPE, SEE WINDOW TYPES SHEET
- X — NEW WALL TYPE, SEE WALL TYPE SHEET G-003
- X — CONSTRUCTION KEY NOTE INDICATOR

CONSTRUCTION KEY NOTES

1. PROVIDE NEW PARTITIONS AS INDICATED ON PLAN, REFER TO WALL LEGEND FOR WALL TYPE CONSTRUCTION. REFER TO WALL TYPES FOR RATED WALLS.
2. PROVIDE 1-HR FIRE RATED WALL INDICATED ON PLAN ADJACENT TO CORRIDOR.
3. PROVIDE NEW FIRE-RATED FRAMES, DOORS, AND WINDOWS AT NEW WORK AREAS. ONE HOUR RATED WINDOWS AND 45 MINUTE DOORS. REFER TO DOOR SCHEDULE FOR DETAILS.
4. PREPARE FLOOR TO RECEIVE NEW FLOOR FINISH AND WALL BASE. REFER TO INTERIOR FINISH SCHEDULE.
5. PATCH, REPAIR, PRIME AND PAINT ALL WALLS.
6. INFILL WALL TO MATCH EXISTING.
7. PROVIDE ROLLER SHADE.



LEARNING COMMONS REFLECTED CEILING PLAN GROUND FLOOR (PART A)

3 / A-401

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

CEILING LEGEND

- ROOM NAME / NO. / 9'-0" — INDICATES ROOM NAME AND NUMBER AND CEILING HEIGHT
- X — RCP KEY NOTE INDICATOR
- EXISTING 2'X2' ACT CONSTRUCTION TO REMAIN
- EXISTING 2'X4' ACT CONSTRUCTION TO REMAIN
- NEW 2'x2' ACOUSTICAL GRID WITH NEW ACOUSTIC CEILING TILE
- NEW 2'x4' ACOUSTICAL GRID WITH NEW ACOUSTIC CEILING TILE
- PAINTED GYP CEILING
- PAINTED GYP SOFFIT
- SUPPLY AIR DIFFUSER / RETURN GRILLES. COORDINATE WITH MECH. DWGS.
- LIGHT FIXTURES. COORDINATE WITH ELEC. DWGS.
- EMERGENCY LIGHT FIXTURES. COORDINATE WITH ELEC. DWGS.
- NEW "TRIANGLE" & "TRAPEZOID" SHAPED ACOUSTICAL CEILING TILES & GRID
- NEW 2'x4' METAL CEILING TILES & GRID

GENERAL DRAWING NOTES

1. CONTRACTOR TO COORDINATE WITH MEP CONTRACTOR AND DRAWINGS FOR LOCATIONS OF NEW CEILING MOUNTED DEVICES.
2. REFER TO FINISH DRAWINGS FOR FINISH INFORMATION. SEE A-701 FOR FINISH SCHEDULE, LEGEND, AND NOTES.

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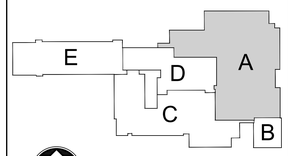

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

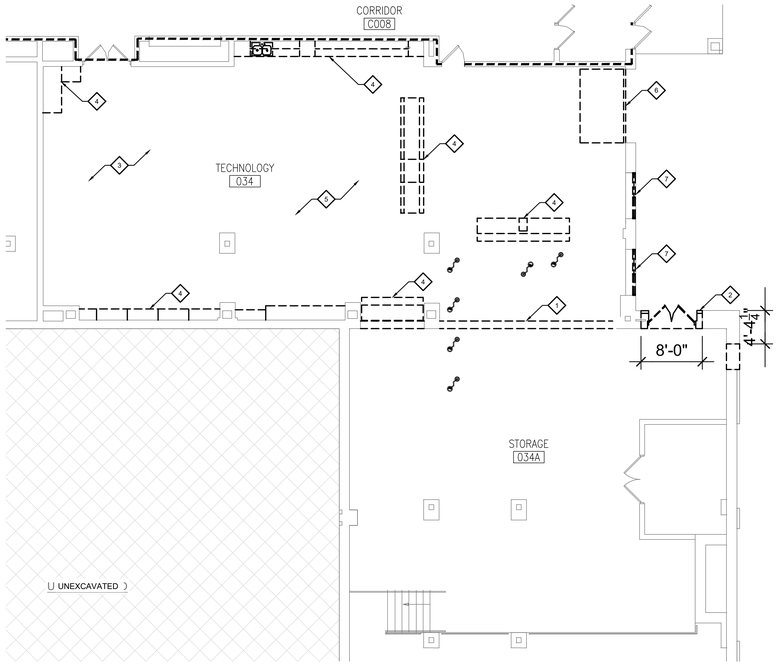
LEARNING COMMONS ENLARGED DEMO PLAN, RENO PLAN & RCP

DRAWN BY:	CHECKED BY:
A.L.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

A-401

CAD FILE: 5005A-401.DWG PLOT DATE: 11/10/2025



1 / A-402

AGRICULTURE LAB / CTE
DEMOLITION PLAN- GROUND FLOOR (PART A)

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

DEMOLITION LEGEND

- EXISTING WALL CONSTRUCTION TO REMAIN
- EXISTING WALL CONSTRUCTION TO BE DEMOLISHED IN ITS ENTIRETY
- EXISTING DOOR TO REMAIN
- EXISTING DOOR, FRAME, AND HARDWARE TO BE REMOVED IN ITS ENTIRETY UNLESS OTHERWISE SPECIFIED
- DEMOLITION KEY NOTE INDICATOR

DEMOLITION KEY NOTES

1. REMOVE EXISTING INTERIOR MASONRY WALL CONSTRUCTION IN ITS ENTIRETY INCLUDING WALL BASE, MISCELLANEOUS BRACING, ELEC. OUTLETS, WIRING, PIPING, ETC. (COORDINATE WITH ALL MEP DWGS.).
2. REMOVE 8'-0" PORTION OF EXISTING EXTERIOR MASONRY WALL WITH BRICK VENEER CONSTRUCTION. REFER TO STRUCTURAL NOTES.
3. REMOVE EXISTING CEILING SYSTEM(S), LIGHTING, DIFFUSERS AND SOFFITS IN THEIR ENTIRETY AS REQUIRED FOR NEW CONSTRUCTION.
4. REMOVE EXISTING MILLWORK IN ITS ENTIRETY.
5. ALL FLOOR FINISHES TO BE REMOVED. PATCH/REPAIR AND PREP SUBFLOOR FOR NEW FLOOR FINISHES.
6. REMOVE OVERHEAD DOOR IN ITS ENTIRETY.
7. REMOVE EXISTING WINDOW AND FRAME.

CONSTRUCTION LEGEND

- EXISTING WALL CONSTRUCTION TO REMAIN
- NEW WALL CONSTRUCTION
- EXISTING DOOR TO REMAIN
- NEW DOOR AND FRAME
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- 000 — INDICATES DOOR NUMBER
- BL-X — BORROWED LIGHT WINDOW TYPE
- W-#? — WINDOW TAG. REFER TO WINDOW TYPES SHEET
- # — NEW WALL TYPE SEE WALL TYPES SHEET G-003
- X — CONSTRUCTION KEY NOTE INDICATOR

CONSTRUCTION KEY NOTES

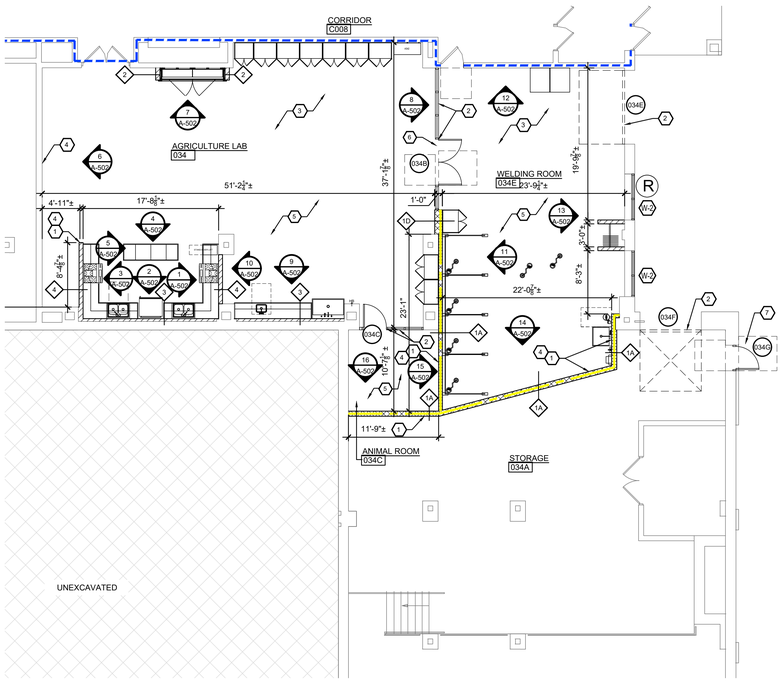
1. PROVIDE NEW PARTITIONS AS INDICATED ON PLAN, REFER TO WALL LEGEND FOR WALL TYPE CONSTRUCTION. REFER TO WALL TYPES FOR RATED WALLS.
2. PROVIDE NEW FIRE-RATED FRAMES, DOORS, AND WINDOWS AT NEW WORK AREAS. REFER TO DOOR SCHEDULE FOR DETAILS.
3. PREPARE FLOOR TO RECEIVE NEW FLOOR FINISH AND WALL BASE. REFER TO INTERIOR FINISH SCHEDULE.
4. PATCH, REPAIR, PRIME AND PAINT ALL WALLS. FIRE STOP SEAL AT ALL EXISTING WALLS AT 2 HOUR LOCATIONS
5. ADD ADDITIONAL 2 HOUR SPRAY FIRE PROOFING TO STEEL BEAMS, FLOOR DECK, AND STEEL COLUMNS.
6. PROVIDE A SIGN AT DOOR 034B, AGRICULTURE LAB SIDE, WHICH READS "EMERGENCY ESCAPE". THE SIGN SHALL HAVE A BRIGHT YELLOW BACKGROUND WITH BLACK LETTERS, MINIMUM SIZE: 5 INCHES BY 8 INCHES.
7. GRADE SITE TO ACCOMMODATE NEW MAN DOOR.

CEILING LEGEND

- ROOM NAME / NO. / 9'-0" — INDICATES ROOM NAME AND NUMBER AND CEILING HEIGHT
- X — RCP KEY NOTE INDICATOR
- EXISTING 2'X2' ACT CONSTRUCTION TO REMAIN
- EXISTING 2'X4' ACT CONSTRUCTION TO REMAIN
- NEW 2'x2' ACOUSTICAL GRID WITH NEW ACOUSTIC CEILING TILE
- NEW 2'x4' ACOUSTICAL GRID WITH NEW ACOUSTIC CEILING TILE
- PAINTED GYP CEILING
- PAINTED GYP SOFFIT
- SUPPLY AIR DIFFUSER / RETURN GRILLES. COORDINATE WITH MECH. DWGS.
- LIGHT FIXTURES. COORDINATE WITH ELEC. DWGS.
- EMERGENCY LIGHT FIXTURES. COORDINATE WITH ELEC. DWGS.
- HEXAGON CANOPY PENDANT:
  - INDICATES DIRECT LIGHT SEGMENT
  - INDICATES EMERGENCY LIGHT SEGMENT
  - HATCH WITHIN PENDANTS INDICATES ACOUSTICAL INFILL PANEL, COLORS VARY - SEE INTERIOR FINISH LEGEND.
  - COORDINATE WITH ELEC. DWGS.

GENERAL DRAWING NOTES

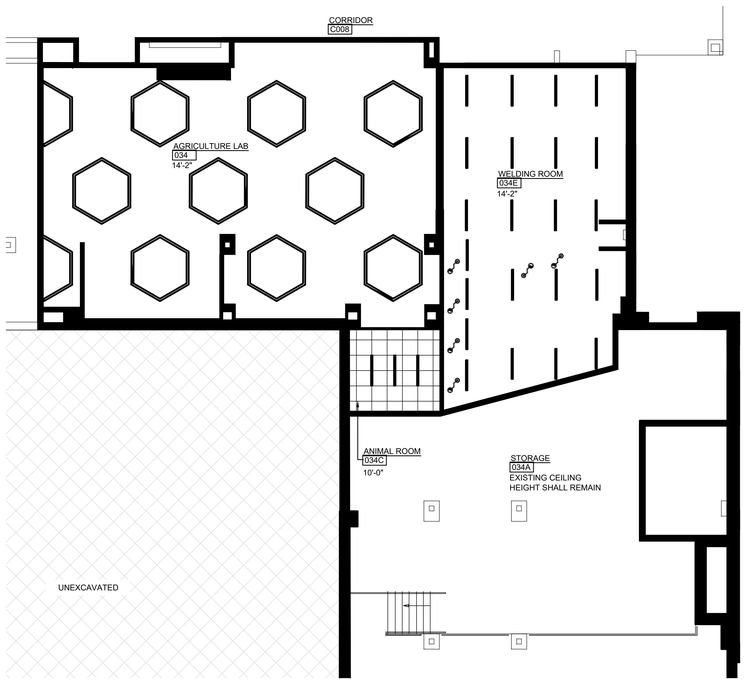
1. CONTRACTOR TO COORDINATE WITH MEP CONTRACTOR AND DRAWINGS FOR LOCATIONS OF NEW CEILING MOUNTED DEVICES.
2. REFER TO FINISH DRAWINGS FOR FINISH INFORMATION. SEE A-701 FOR FINISH SCHEDULE, LEGEND, AND NOTES.



2 / A-402

AGRICULTURE LAB / CTE
RENOVATION PLAN- GROUND FLOOR (PART A)

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



3 / A-402

AGRICULTURE LAB / CTE
REFLECTED CEILING PLAN- GROUND FLOOR (PART A)

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

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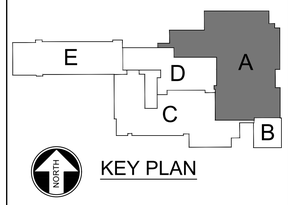

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

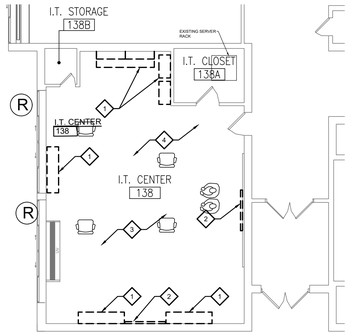
AGRICULTURE LAB / CTE
ENALRGED DEMO PLAN,
RENO PLAN & RCP

DRAWN BY:	CHECKED BY:
A.L.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

A-402

CAD FILE: 5005-A-402.DWG PLOT DATE: 11/10/2025



I.T. CENTER DEMOLITION PLAN- FIRST FLOOR

1 / A-403

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

DEMOLITION LEGEND

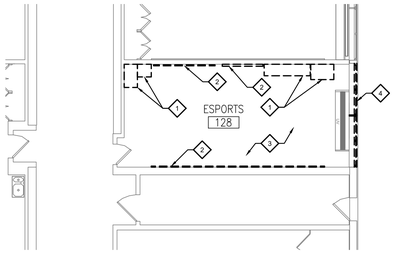
- EXISTING WALL CONSTRUCTION TO REMAIN
- EXISTING WALL CONSTRUCTION TO BE DEMOLISHED IN ITS ENTIRETY
- EXISTING DOOR TO REMAIN
- EXISTING DOOR, FRAME, AND HARDWARE TO BE REMOVED IN ITS ENTIRETY UNLESS OTHERWISE SPECIFIED
- 4 — DEMOLITION KEY NOTE INDICATOR

DEMOLITION KEY NOTES

1. REMOVE EXISTING MILLWORK IN ITS ENTIRETY.
2. REMOVE EXISTING SMART-BOARD AND DRY ERASE BOARD.
3. ALL FLOOR FINISHES TO BE REMOVED. PATCH/REPAIR AND PREP SUBFLOOR FOR NEW FLOOR FINISHES.
4. REMOVE EXISTING CEILING SYSTEM(S), LIGHTING, DIFFUSERS AND SOFFITS IN THEIR ENTIRETY AS REQUIRED FOR NEW CONSTRUCTION.

GENERAL DRAWING NOTES

1. PATCH AND REPAIR WALLS AFTER REMOVING MILLWORK AND BOARDS.



ESPORTS DEMOLITION PLAN FIRST FLOOR

4 / A-403

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

DEMOLITION LEGEND

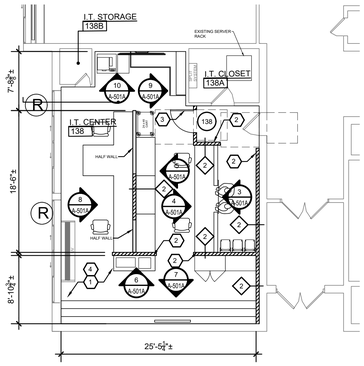
- EXISTING WALL CONSTRUCTION TO REMAIN
- EXISTING WALL CONSTRUCTION TO BE DEMOLISHED IN ITS ENTIRETY
- EXISTING DOOR TO REMAIN
- EXISTING DOOR, FRAME, AND HARDWARE TO BE REMOVED IN ITS ENTIRETY UNLESS OTHERWISE SPECIFIED
- 4 — DEMOLITION KEY NOTE INDICATOR

DEMOLITION KEY NOTES

1. REMOVE EXISTING MILLWORK IN ITS ENTIRETY.
2. REMOVE EXISTING SMART-BOARD, DRY ERASE BOARD, AND BULLETIN BOARD FROM EXISTING WALLS.
3. ALL FLOOR FINISHES TO BE REMOVED. PATCH/REPAIR AND PREP SUBFLOOR FOR NEW FLOOR FINISHES.
4. REMOVE EXISTING WINDOW AND FRAME.

GENERAL DRAWING NOTES

1. PATCH AND REPAIR WALLS AFTER REMOVING MILLWORK AND BOARDS.



I.T. CENTER RENOVATION PLAN- FIRST FLOOR

2 / A-403

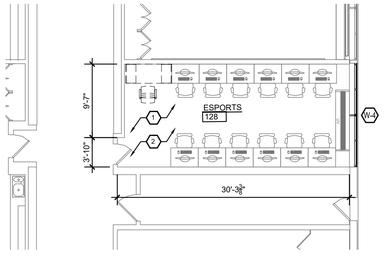
SCALE: 1/8"=1'-0"

CONSTRUCTION LEGEND

- EXISTING WALL CONSTRUCTION TO REMAIN
- NEW WALL CONSTRUCTION
- EXISTING DOOR TO REMAIN
- NEW DOOR AND FRAME
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- 000 — INDICATES DOOR NUMBER REFER TO DOOR SCHEDULE
- BL-X — BORROWED LIGHT WINDOW TYPE
- X — NEW WALL TYPE SEE WALL TYPES SHEET G-003
- X — CONSTRUCTION KEY NOTE INDICATOR

CONSTRUCTION KEY NOTES

1. PREPARE FLOOR TO RECEIVE NEW FLOOR FINISH AND WALL BASE. SEE INTERIOR FINISH SCHEDULE.
2. PROVIDE NEW PARTITIONS AS INDICATED ON PLAN, REFER TO WALL LEGEND FOR WALL TYPE CONSTRUCTION. REFER TO WALL TYPES FOR RATED WALLS.
3. PROVIDE NEW DOOR AS INDICATED ON PLAN, REFER TO DOOR SCHEDULE FOR DOOR TYPE CONSTRUCTION.
4. PATCH, REPAIR, PRIME AND PAINT ALL WALLS.



ESPORTS RENOVATION PLAN FIRST FLOOR

5 / A-403

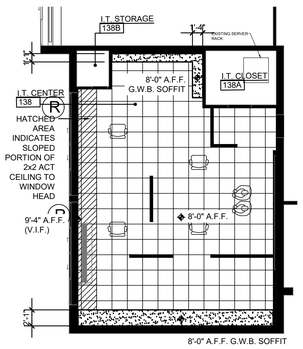
SCALE: 1/8"=1'-0"

CONSTRUCTION LEGEND

- EXISTING WALL CONSTRUCTION TO REMAIN
- NEW WALL CONSTRUCTION
- EXISTING DOOR TO REMAIN
- NEW DOOR AND FRAME
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- 000 — INDICATES DOOR NUMBER REFER TO DOOR SCHEDULE
- BL-X — BORROWED LIGHT WINDOW TYPE
- W-# — WINDOW TAG REFER TO WINDOW TYPE SHEET
- X — NEW WALL TYPE
- X — CONSTRUCTION KEY NOTE INDICATOR

CONSTRUCTION KEY NOTES

1. PREPARE FLOOR TO RECEIVE NEW FLOOR FINISH AND WALL BASE. SEE INTERIOR FINISH SCHEDULE.
2. PATCH, REPAIR, PRIME AND PAINT ALL WALLS.



I.T. CENTER REFLECTED CEILING PLAN- FIRST FLOOR

3 / A-403

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

CEILING LEGEND

- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- X — RCP KEY NOTE INDICATOR
- EXISTING 2'X2' ACT CONSTRUCTION TO REMAIN
- EXISTING 2'X4' ACT CONSTRUCTION TO REMAIN
- NEW 2'x2' ACOUSTICAL GRID WITH NEW ACOUSTIC CEILING TILE
- NEW 2'x4' ACOUSTICAL GRID WITH NEW ACOUSTIC CEILING TILE
- PAINTED GYP CEILING
- PAINTED GYP SOFFIT
- SUPPLY AIR DIFFUSER / RETURN GRILLES. COORDINATE WITH MECH. DWGS.
- LIGHT FIXTURES. COORDINATE WITH ELEC. DWGS.
- EMERGENCY LIGHT FIXTURES. COORDINATE WITH ELEC. DWGS.

GENERAL DRAWING NOTES

1. CONTRACTOR TO COORDINATE WITH MEP CONTRACTOR AND DRAWINGS FOR LOCATIONS OF NEW CEILING MOUNTED DEVICES.

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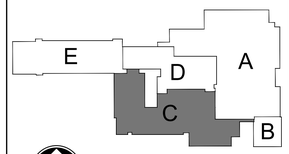

KEY PLAN

BID DOCUMENTS

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

IT CENTER & ESPORTS ENLARGED DEMO PLANS, RENO PLANS, & RCP'S

DRAWN BY:	CHECKED BY:
A.L.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

A-403

CAD FILE: 5005-A-403.DWG PLOT DATE: 11/10/2025

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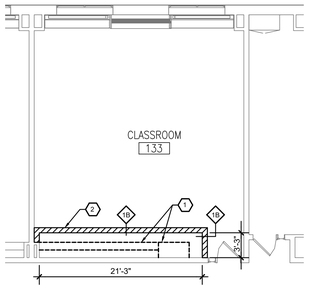


CLASSROOM 133 RENOVATION PLAN
FIRST FLOOR

3 / A-404

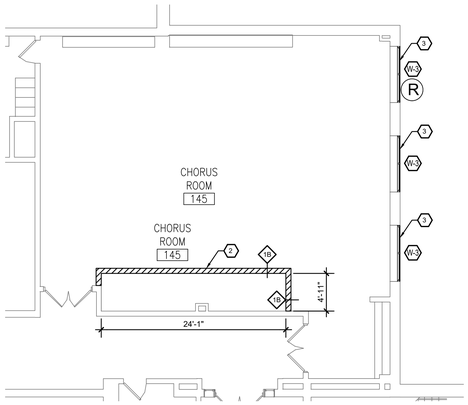
SCALE: 1/8"=1'-0"

CONSTRUCTION LEGEND

- EXISTING WALL CONSTRUCTION TO REMAIN
- NEW WALL CONSTRUCTION
- EXISTING DOOR TO REMAIN
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- 4 — NEW WALL TYPE SEE WALL TYPES SHEET G-003
- W-#? — NEW WINDOW TAG REFER TO WINDOW TYPES SHEET
- X — CONSTRUCTION KEY NOTE INDICATOR

CONSTRUCTION KEY NOTES

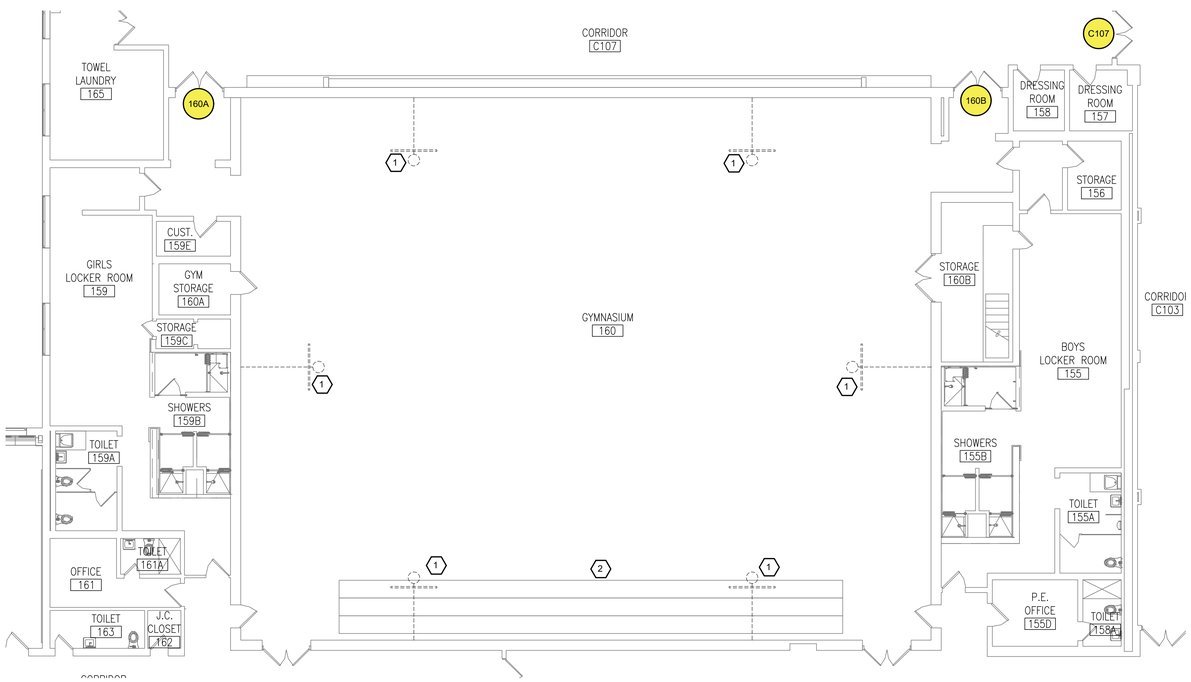
1. REMOVE AND RELOCATE EXISTING SHELVING AND MILLWORK.
2. PROVIDE NEW PARTITIONS AS INDICATED ON PLAN TO ACCOMMODATE NEW CHASE. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF NEW CHASE. REFER TO WALL LEGEND FOR WALL TYPE CONSTRUCTION. REFER TO WALL TYPES FOR RATED WALLS.
3. EXISTING WINDOW TO BE REMOVED AND REPLACED.



CHORUS ROOM RENOVATION PLAN
FIRST FLOOR

2 / A-404

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



GYMNASIUM RENOVATION PLAN
FIRST FLOOR

1 / A-404

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

CONSTRUCTION LEGEND

- EXISTING WALL CONSTRUCTION TO REMAIN
- EXISTING DOOR TO REMAIN
- XXX — WIRE GLASS REPLACEMENT IN EXISTING DOOR
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- XXX — INDICATES DOOR NUMBER REFER TO DOOR SCHEDULE
- 4 — NEW WALL TYPE SEE WALL TYPES SHEET G-003
- X — CONSTRUCTION KEY NOTE INDICATOR

CONSTRUCTION KEY NOTES

1. REPLACE BASKETBALL HOOP.
2. REPLACE BLEACHERS.

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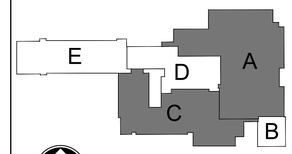

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

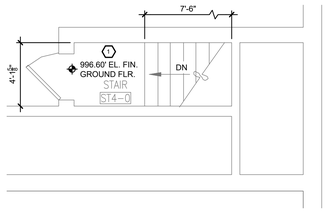
UPPER GYMNASIUM & CHORUS ROOM & CLASSROOM ENLARGED PLANS

DRAWN BY:	CHECKED BY:
A.G. / T.M.	C.Z.
DATE:	PROJECT NO:
11/10/2025	2025-005

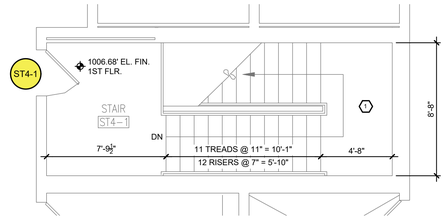
DRAWING NO:

A-404

CAD FILE: 5005-A-404.DWG PLOT DATE: 11/10/2025



1 A-405 STAIR ST4 ENLARGED PLAN
GROUND FLOOR- BUILDING PART D
SCALE: 1/4"=1'-0"



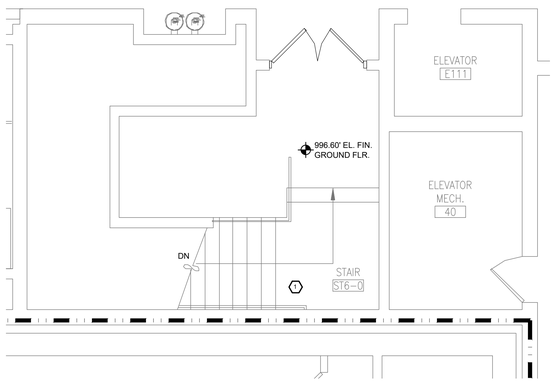
2 A-405 STAIR ST4 ENLARGED PLAN
FIRST FLOOR- BUILDING PART D
SCALE: 1/4"=1'-0"

CONSTRUCTION LEGEND

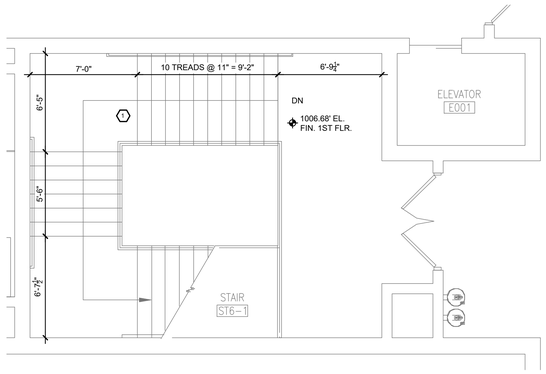
- EXISTING WALL CONSTRUCTION TO REMAIN
- EXISTING DOOR TO REMAIN
- ROOM NAME / NO. — INDICATES ROOM NAME AND NUMBER
- 000 — INDICATES DOOR NUMBER REFER TO DOOR SCHEDULE
- X — CONSTRUCTION KEY NOTE INDICATOR

CONSTRUCTION KEY NOTES

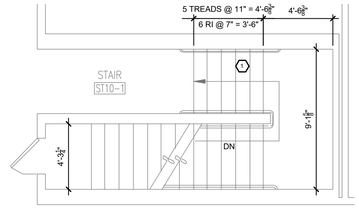
1 REPLACE RUBBER STAIR TREADS, RISERS, AND LANDINGS TO MATCH EXISTING.



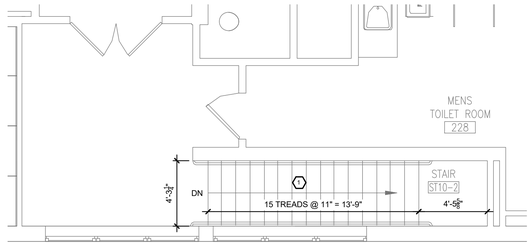
3 A-405 STAIR ST6 ENLARGED PLAN
GROUND FLOOR - BUILDING PART D
SCALE: 1/4"=1'-0"



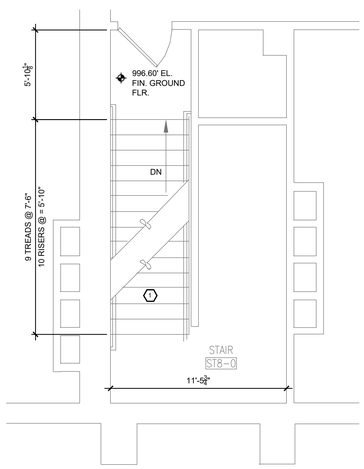
4 A-405 STAIR ST6 ENLARGED PLAN
FIRST FLOOR - BUILDING PART D
SCALE: 1/4"=1'-0"



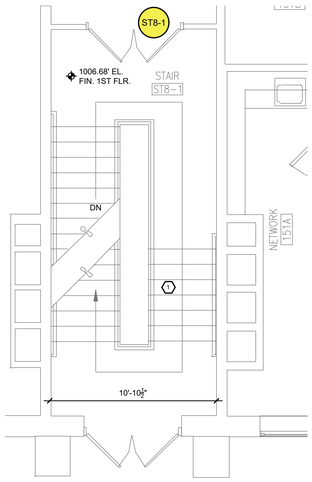
9 A-405 STAIR ST10 ENLARGED PLAN
FIRST FLOOR - BUILDING PART C
SCALE: 1/4"=1'-0"



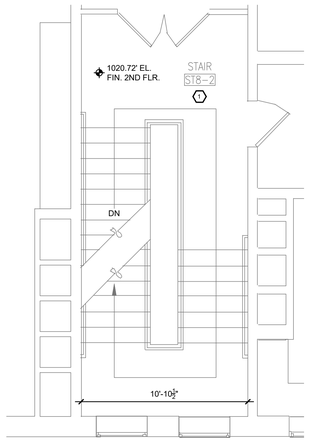
10 A-405 STAIR ST10 ENLARGED PLAN
SECOND FLOOR - BUILDING PART C
SCALE: 1/4"=1'-0"



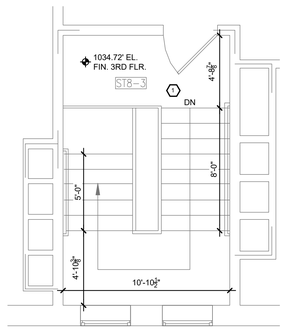
5 A-405 STAIR ST8 ENLARGED PLAN
GROUND FLOOR - BUILDING PART B
SCALE: 5



6 A-405 STAIR ST8 ENLARGED PLAN
FIRST FLOOR - BUILDING PART B
SCALE: 5



7 A-405 STAIR ST8 ENLARGED PLAN
SECOND FLOOR - BUILDING PART B
SCALE: 1/4"=1'-0"



8 A-405 STAIR ST8 ENLARGED PLAN
THIRD FLOOR - BUILDING PART B
SCALE: 1/4"=1'-0"

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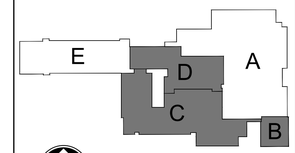

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

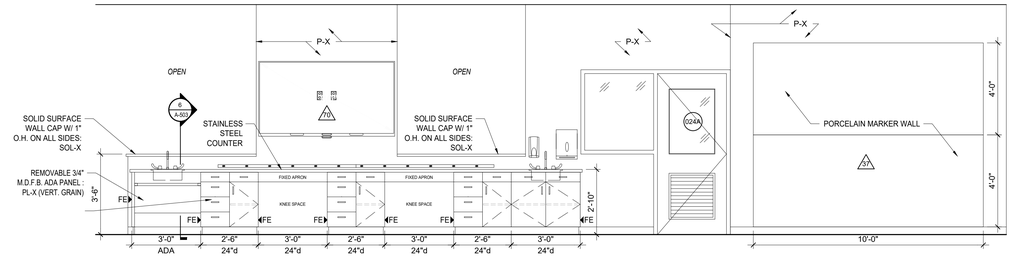
STAIR TOWERS
ENLARGED PLANS

DRAWN BY:	CHECKED BY:
S.C.	C.Z.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

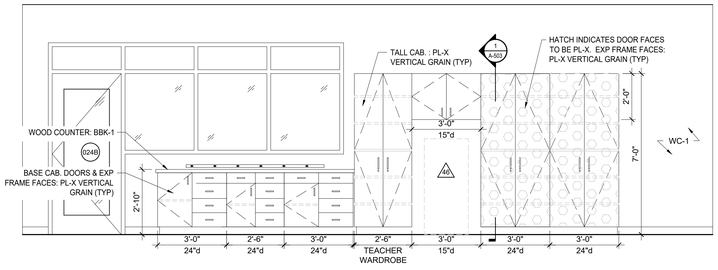
A-405

CAD FILE: 5005-A-405.DWG PLOT DATE: 11/10/2025



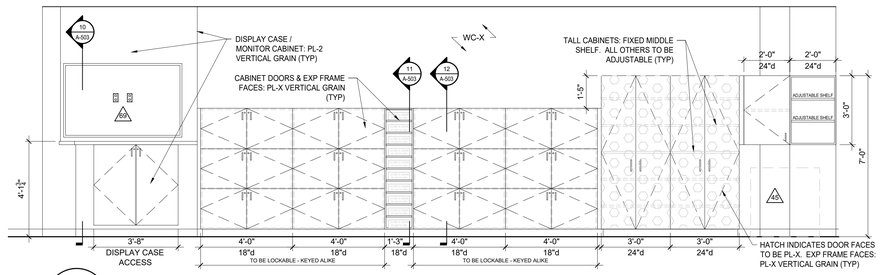
1 A-501 NORTH ELEVATION @ STEAM LAB 024

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



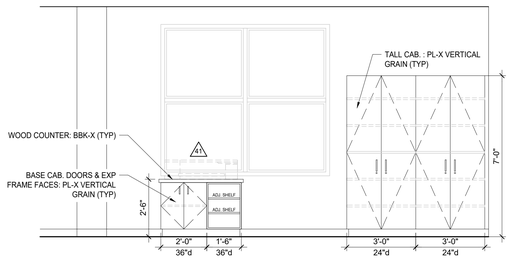
2 A-501 EAST ELEVATION @ STEAM LAB 024

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



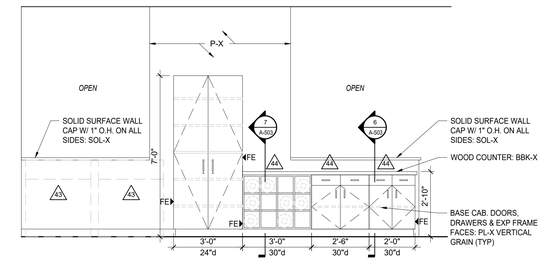
3 A-501 SOUTH ELEVATION @ STEAM LAB 024

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



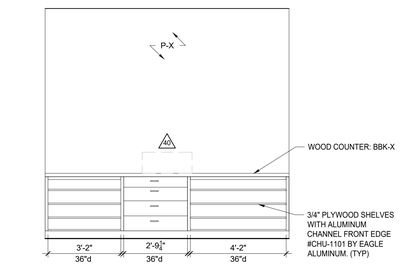
4 A-501 NORTH ELEVATION @ STEAM LAB 024

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



5 A-501 SOUTH ELEVATION @ STEAM LAB 024

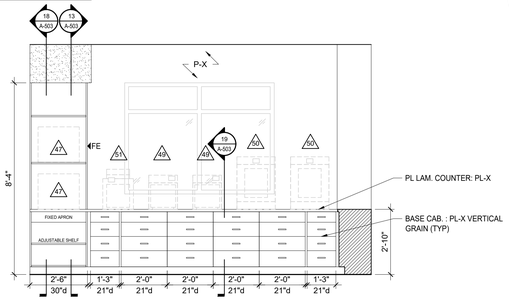
SCALE: 3/8"=1'-0"



SOUTH ELEVATION @ ENGRAVING RM 024A

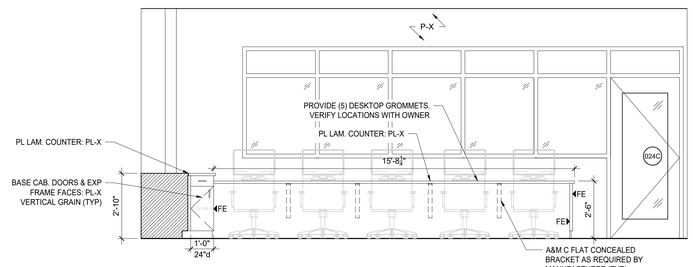
6 A-501

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



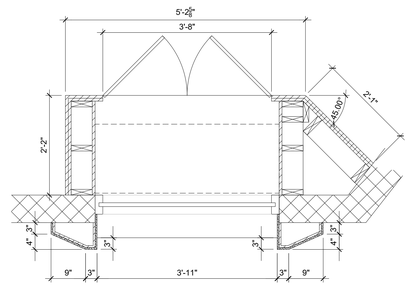
7 A-501 SOUTH ELEVATION @ COMP. LAB 024A

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



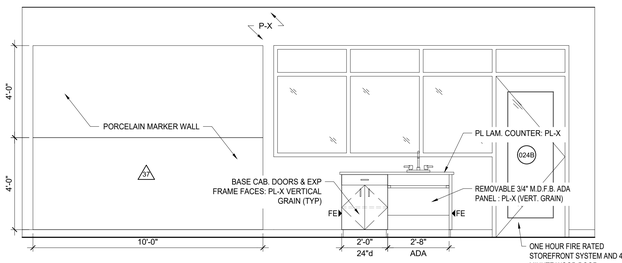
8 A-501 WEST ELEVATION @ COMP. LAB 024A

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



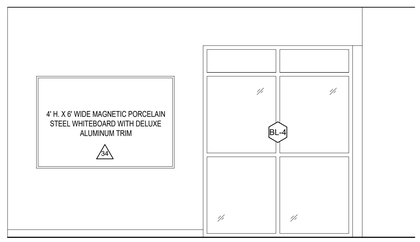
9 A-501 PLAN DETAIL - DISPLAY CASE

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



10 A-501 EAST ELEVATION @ COMP. LAB 024A

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

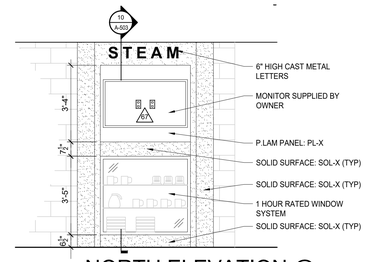


11 A-501 SOUTH ELEVATION @ LIBRARY 025

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

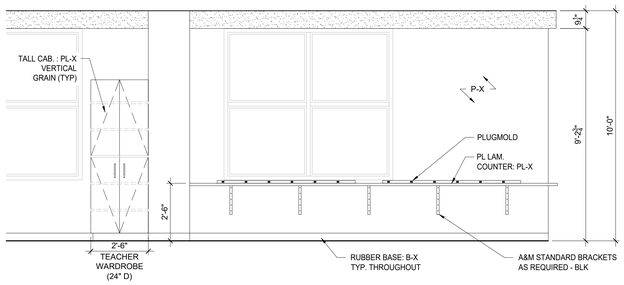
12 A-501 NOT USED

SCALE: -------



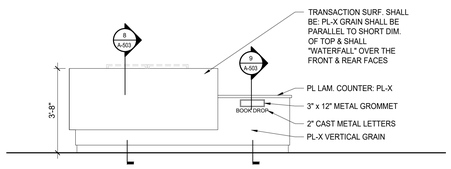
13 A-501 NORTH ELEVATION @ CORRIDOR C004

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



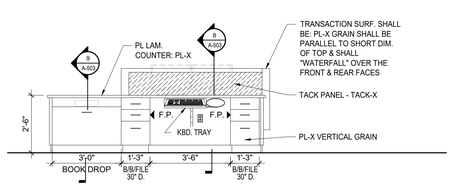
14 A-501 NORTH ELEVATION @ STEAM LAB 024

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



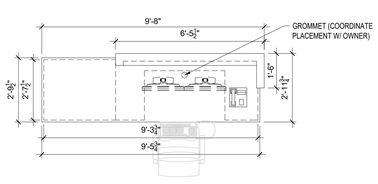
15 A-501 MILLWORK ELEVATION MEDIA CENTER DESK

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



16 A-501 MILLWORK ELEVATION MEDIA CENTER DESK

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



17 A-501 MILLWORK PLAN MEDIA CENTER DESK

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

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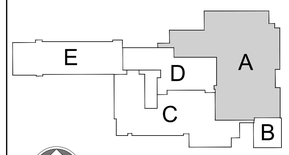

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

INTERIOR ELEVATIONS

DRAWN BY:	CHECKED BY:
A.L.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

A-501

CAD FILE: 5005-A-501.DWG

PLOT DATE: 11/10/2025

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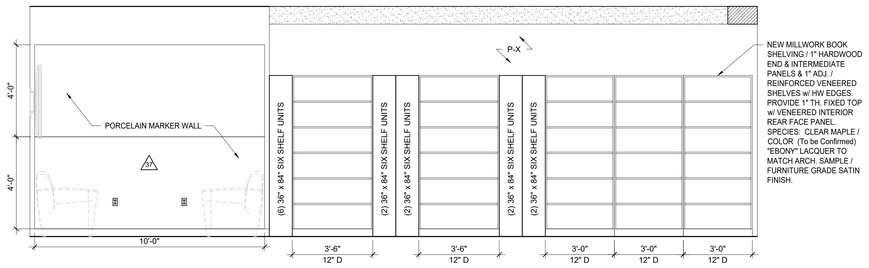

1 A-501A **WEST ELEVATION @ MEDIA CENTER**
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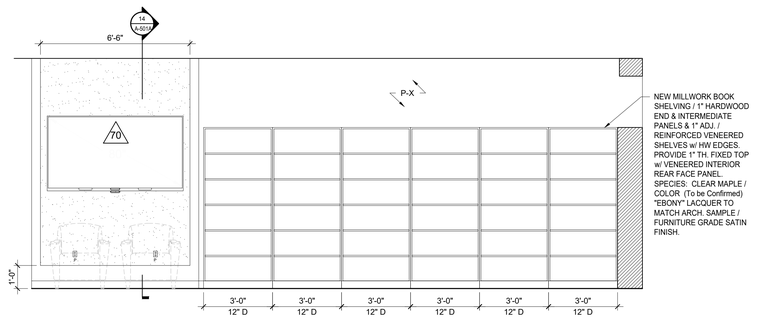

2 A-501A **SOUTH ELEVATION @ MEDIA CENTER**
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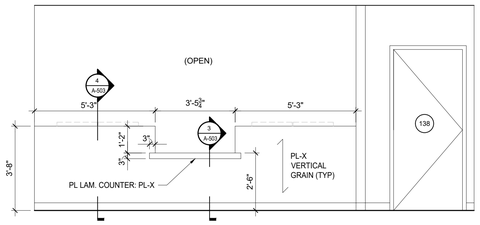
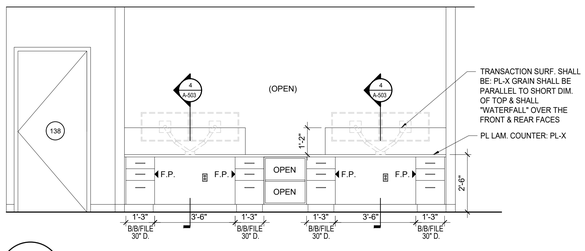
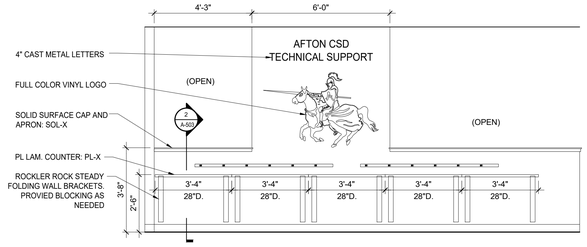


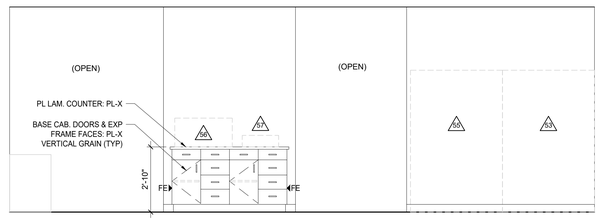
3 A-501A **ELEVATION @ I.T.**
SCALE: 3/8"=1'-0"



4 A-501A **ELEVATION @ I.T.**
SCALE: 3/8"=1'-0"



5 A-501A **ELEVATION @ I.T.**
SCALE: 3/8"=1'-0"



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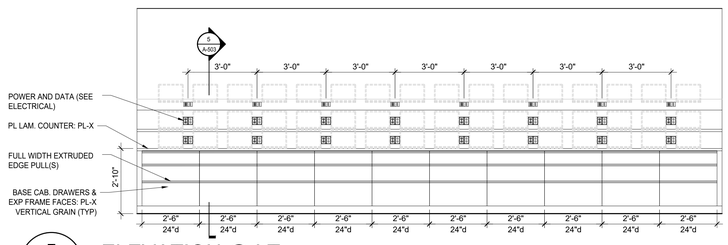

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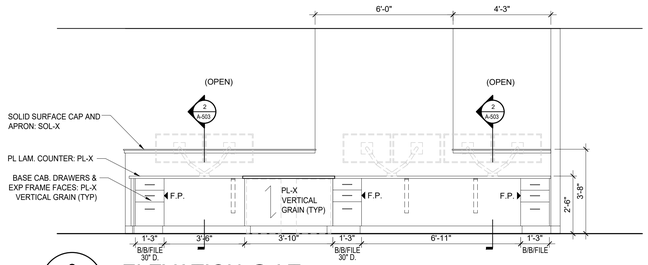

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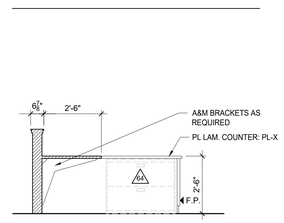

9 A-501A **ELEVATION @ I.T.**
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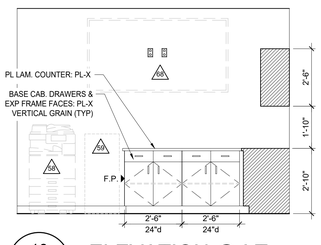
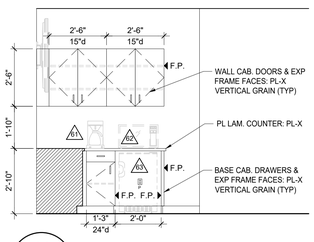


10 A-501A **ELEVATION @ I.T.**
SCALE: 3/8"=1'-0"



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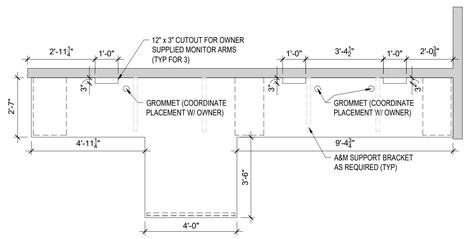

12 A-501A **MILLWORK PLAN DETAIL**
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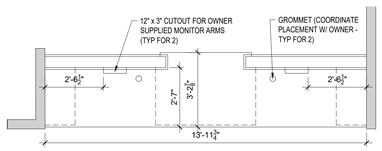
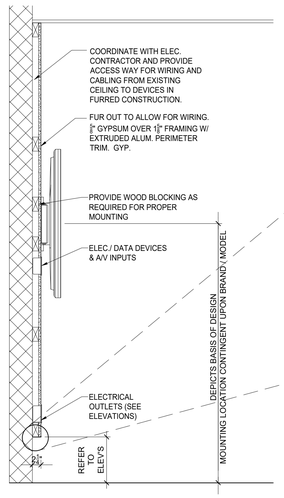


13 A-501A **MILLWORK PLAN DETAIL**
SCALE: 3/8"=1'-0"



14 A-501A **TYP. MONITOR WALL**
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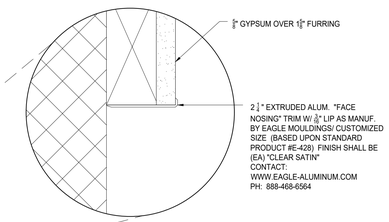

15 A-501A **DETAIL**
ALUMINUM TRIM
SCALE: 6"=1'-0"

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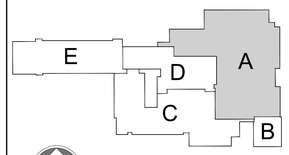

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

INTERIOR ELEVATIONS

DRAWN BY:	CHECKED BY:
A.L.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

A-501A

CAD FILE: 5005-A-501.DWG PLOT DATE: 11/10/2025

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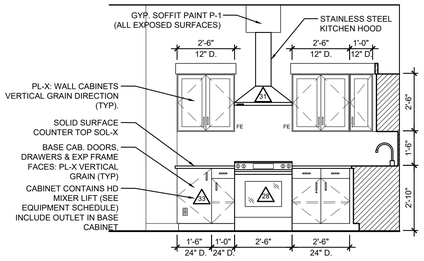

1 A-502 AG LAB - KITCHEN
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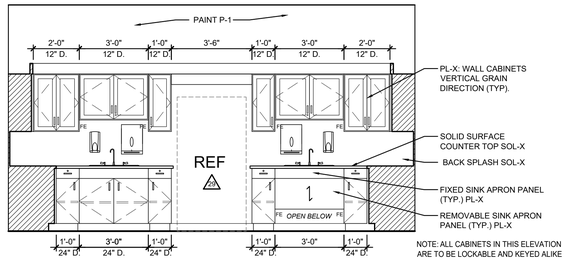

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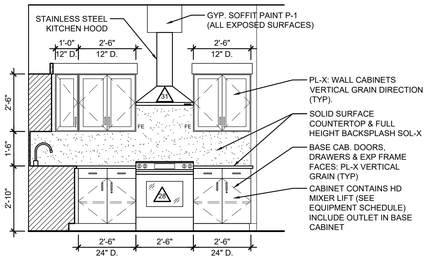

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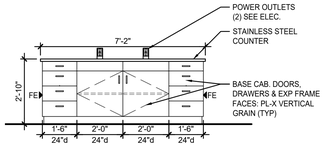

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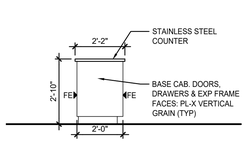

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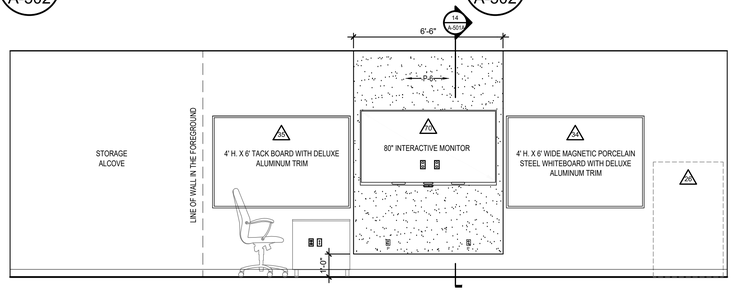

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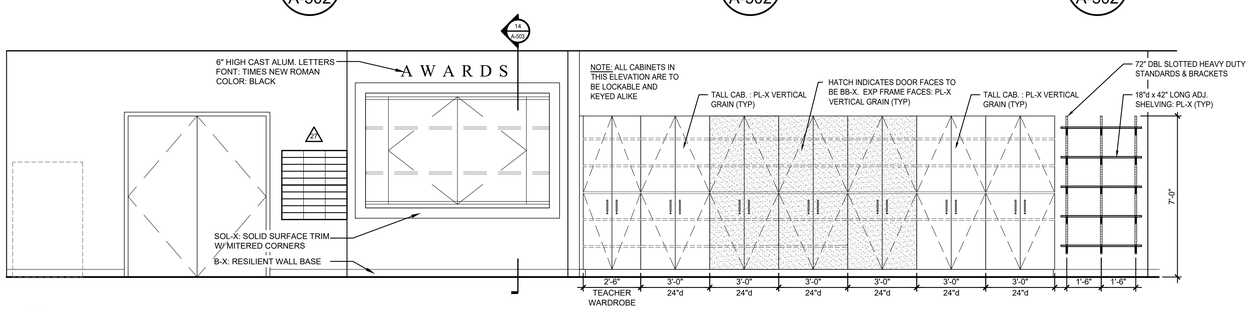
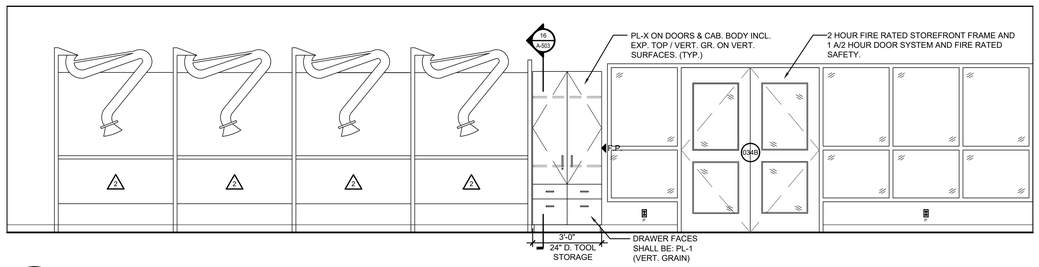


7 A-502 NORTH ELEVATION @ AG. LAB 034
SCALE: 3/8"=1'-0"

8 A-502 EAST ELEVATION @ AG. LAB 034
SCALE: 3/8"=1'-0"

9 A-502 SOUTH ELEVATION @ AG. LAB 034
SCALE: 3/8"=1'-0"

10 A-502 AG LAB - PLANTS
SCALE: 3/8"=1'-0"



11 A-502 WEST ELEVATION - AG MECHANICS
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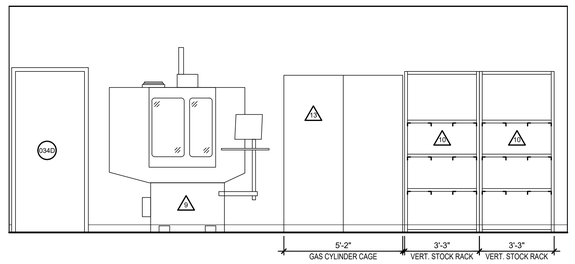

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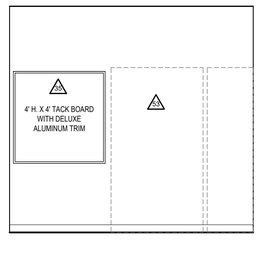
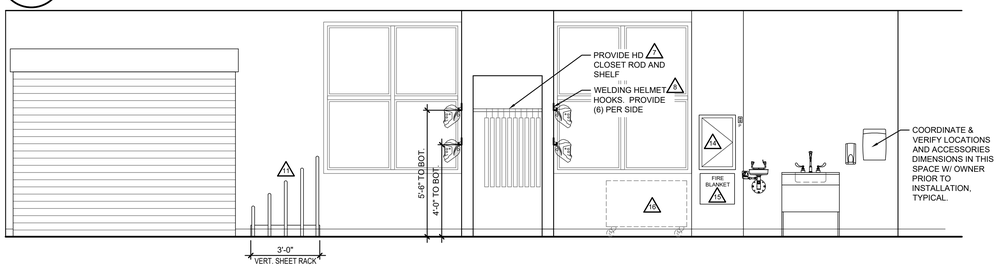


15 A-502 EAST ELEVATION - ANIMAL RM
SCALE: 3/8"=1'-0"



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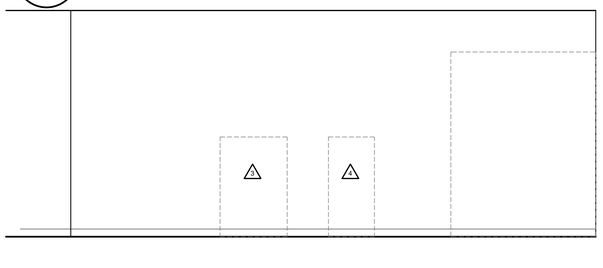

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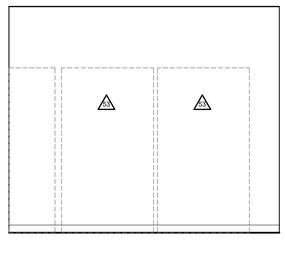

16 A-502 SOUTH ELEVATION - ANIMAL RM
SCALE: 3/8"=1'-0"

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Clarks Summit, PA 18411
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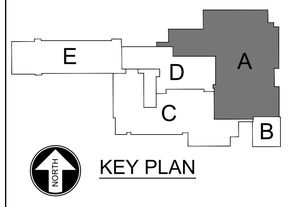

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

INTERIOR ELEVATIONS

DRAWN BY:	CHECKED BY:
A.L.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

A-502

CAD FILE: 5005-A-502.DWG PLOT DATE: 11/10/2025

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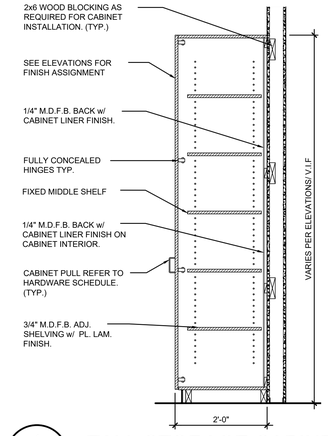

1 A-503 **TALL STORAGE CABINET**
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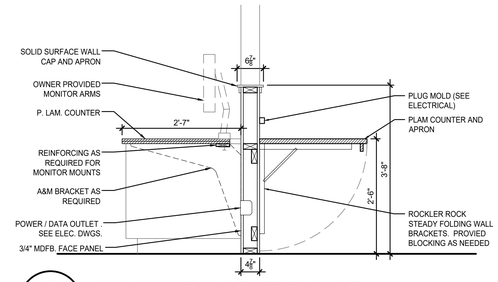

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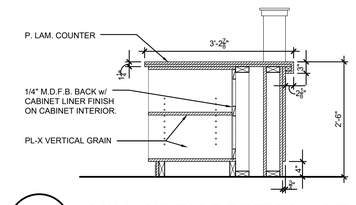

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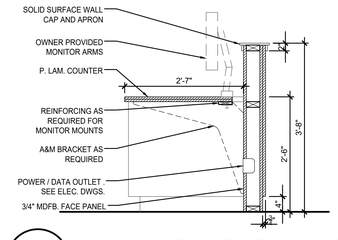

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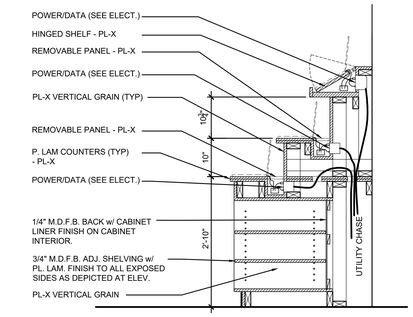

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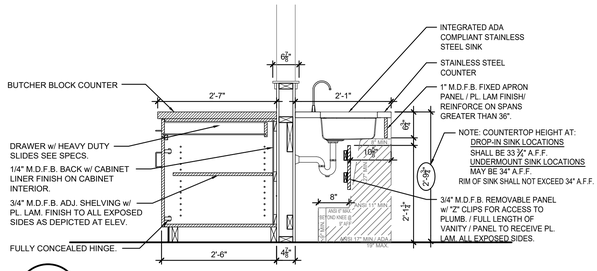

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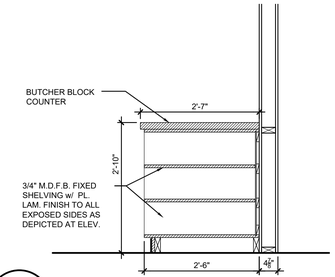

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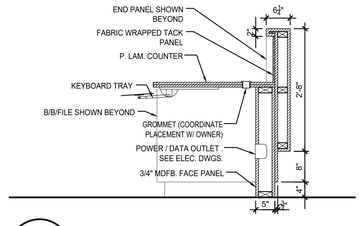

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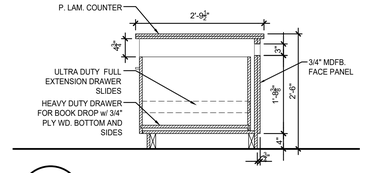

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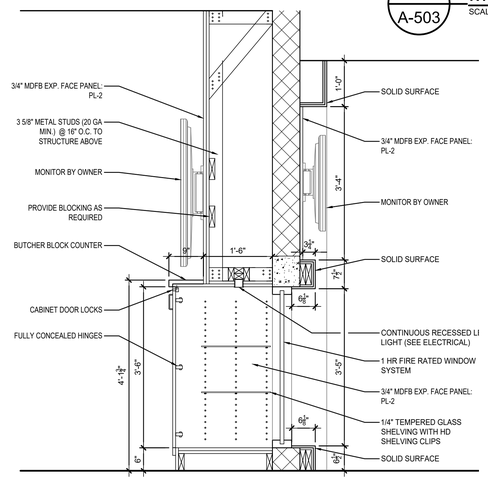

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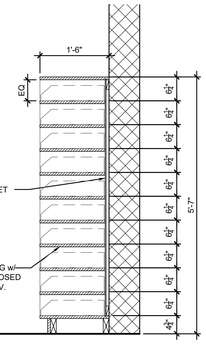

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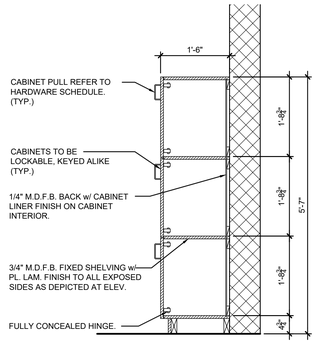

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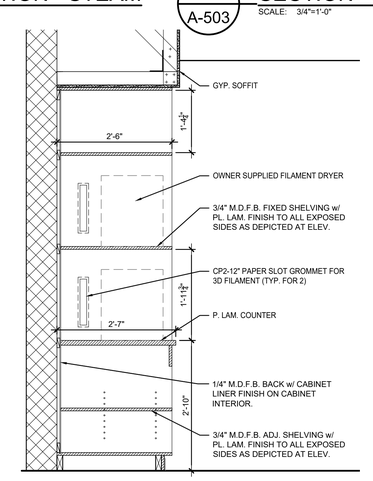

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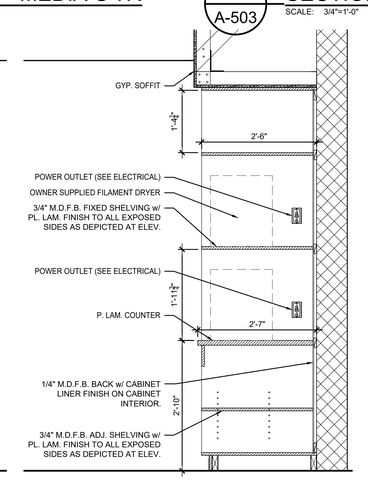

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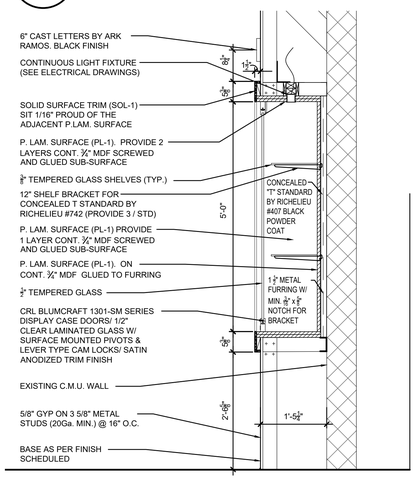

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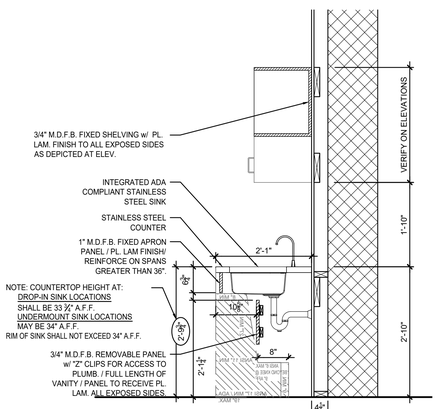

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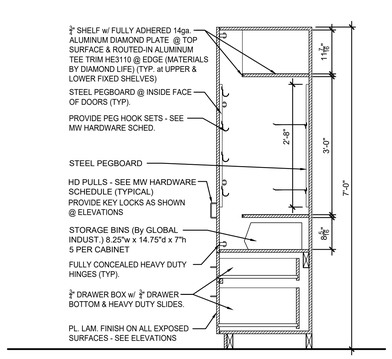

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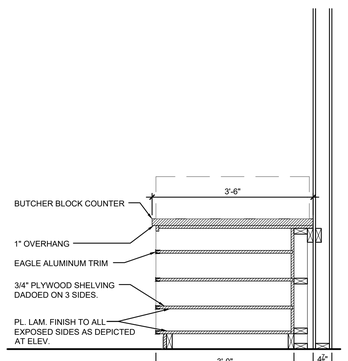

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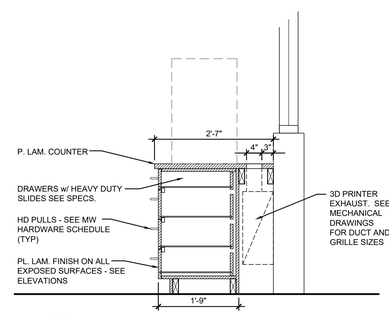

19 A-503 **SECTION - 3D PRINTING**
SCALE: 3/4"=1'-0"

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102 Highland Avenue
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www.highlandassociates.com
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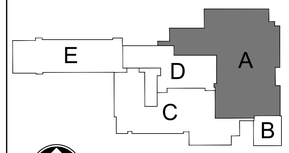

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

MILLWORK SECTIONS

DRAWN BY:	CHECKED BY:
A.L.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

A-503

CAD FILE: 5005-A-503.DWG PLOT DATE: 11/10/2025

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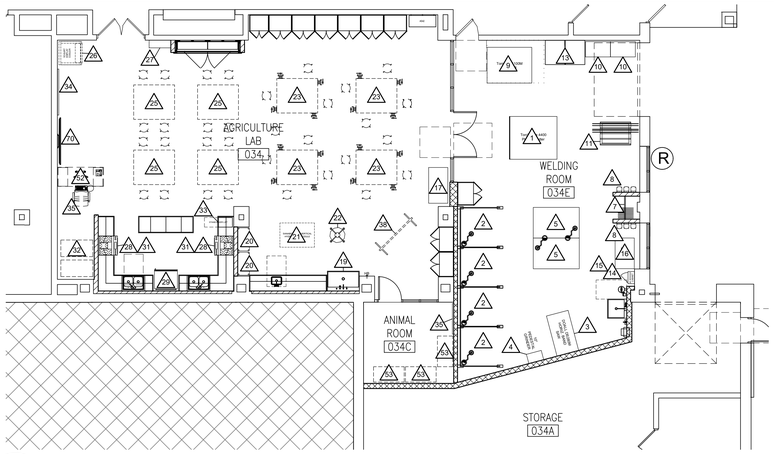
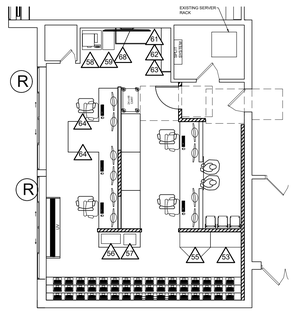


1 A-504 EQUIPMENT PLAN - AG LAB

SCALE: 3/16"=1'-0"



3 A-504 EQUIPMENT PLAN - I.T.

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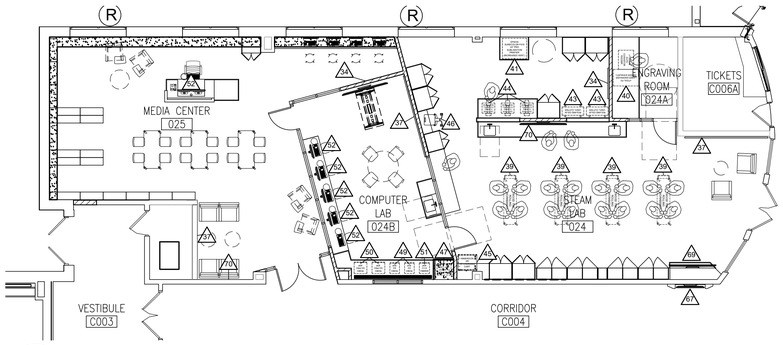
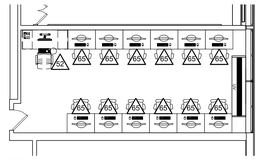


2 A-504 EQUIPMENT PLAN - LEARNING COMMONS

SCALE: 3/16"=1'-0"



4 A-504 EQUIPMENT PLAN - ESPORTS

SCALE: 3/16"=1'-0"

MILLWORK HARDWARE SCHEDULE

ITEM	MANUF.	MODEL NUMBER	DESCRIPTION
4" CABINET PULLS	BELLWITH PRODUCTS (HICKORY HARDWARE)	# BEL-3334-SS 3 3/4" (96 MM) C.C.	4 1/4" SATIN STAINLESS PULL FOR USE @ ALL CABINET DOORS AND DRAWERS UNLESS OTHERWISE NOTED
FULL WIDTH ALUMINUM EXTRUDED PULL	ORANGE ALUMINUM	SKU # PD630750-72CA	CLEAR ANODIZED / w/ BACK FLANGE FOR MECHANICAL FASTENING w/ SCREWS
SUPPORT BRACKET	A & M HARDWARE INC.	(ORDER BY SIZE & COLOR)	SIZES AS REQUIRED /COLOR: BLACK WEBSITE : www.aandmhardware.com
CONCEALED FLAT BRACKET	A & M HARDWARE INC.	(ORDER BY SIZE & COLOR)	SIZES AS REQUIRED /COLOR: BLACK WEBSITE : www.aandmhardware.com
CONCEALED FLAT BRACKET	COUNTERBALANCE	CCH-CBCF1-12BL	SEE 5/A-503
FOLDING WALL BRACKETS	ROCKLER	58798	
CAM LOCK w/ CYLINDER	HAFELE	CAT. # C8053-14A	CAM LOCK w/ KEYED DIFFERENT AND ALIKE OPTION WITH MASTER KEYS
CABINET HINGE	HAFELE GRASS TIOMOS OR EQUAL		SOFT CLOSE 110° CONCEALED EUROPEAN HINGE W/ 3 WAY ADJUSTMENT
ADA REMOVABLE PANEL ATTACHMENTS	KEKU (AS DISTRIBUTED BY HAFELE)	TWO PART SYSTEM: 262.49.368 262.49.351	COLOR: BLACK HOOK-ON VARIANTA EHS FRAME COMP. W/ SIDE GUIDE HOOK-ON VARIANTA PANEL COMP. W/O LIP
INSTITUTIONAL SHELF SUPPORT	TENN-TEX	T-803	FOR USE AT ALL ADJUSTABLE SHELVING AT OPEN CABINETS
DOUBLE SLOTTED STANDARDS, BRACKETS AND ACCESSORIES	KNAPE & VOGT	82 SERIES/ COLOR: "BLACK" / PROVIDE WITH: 182 SERIES BRACKETS & 182DP	HEAVY DUTY COMMERCIAL RATED/ LIFETIME WARRANTY/ PROVIDE & INSTALL w/ SHELF LOCKS
DESKTOP GROMMET	DOUG MOCKETT INC	FLX1-90	FLEX GROMMET / SOFT RUBBER TOP w/ STAR CUT TO PREVENT CABLES FROM FALLING THROUGH
SLOT GROMMET	DOUG MOCKETT INC	CP2-12"	
METAL GROMMET	ARCH HARDWARE	R44-REC (MODIFIED)	BLACK FINISH. DEPTH TO BE MODIFIED TO COVER FULL DEPTH OF THE OPENING
KEYBOARD TRAY	HUMANSCALE	2G 900 90G 22	CLIP MOUSE SYSTEM W/ 2G MECHANISM / 10" w/ FOAM PALM SUPPORT WEBSITE: www.humanscale.com
PENCIL TRAY INSERT/ ORGANIZER	DEFLECTO-O CORP.	ITEM #556859 Manf. # DEF38104	PLASTIC DESK ORGANIZER / 1" H. x 14" W. x 9" D. / Color: BLACK
SHELF EDGE	EAGLE ALUMINUM	CHU-1101	SEE 6/A-501
POWDER COATED STEEL PEGBOARD PANELS	WALL CONTROL	ITEM #30-P-3232 B	BLACK METAL PEGBOARD PACK. INCLUDE (2) ACCESSORY PACKS KT-200-DLX-R
12" SHELF BRACKET	RICHELIEU	742 BLACK POWDER COAT	SEE 14/A-503
CONCEALED "T" STANDARD	RICHELIEU	407 BLACK POWDER COAT	SEE 14/A-503

MILLWORK GENERAL NOTES:

1. ALL FIXED AND ADJUSTABLE SHELVING WITHIN OPEN CABINETS SHALL BE 1" M3 PARTICLE BOARD. PROVIDE EDGEBAND @ ALL EDGES & PL. LAM. FINISH TOP & UNDERSIDE.
2. ALL FIXED & ADJUSTABLE SHELVING WITHIN CLOSETS AND STORAGE AREAS SHALL BE 1" M3 PARTICLE BOARD. PROVIDE EDGEBAND @ ALL EDGES & PL. LAM. FINISH TOP & UNDERSIDE. ADJUSTABLE SHELVES SHALL BE PROVIDED WITH DOUBLE SLOTTED STANDARDS AND BRACKETS - SEE MILLWORK HW SCHEDULE.
3. REFERENCE ELEVATIONS FOR DEPTHS OF ALL CABINETS. ALL BASE & TALL CABINETS SHALL BE 24" DEEP UNLESS OTHERWISE NOTED.
4. PROVIDE WOOD BLOCKING AS REQUIRED FOR MILLWORK INSTALLATION.
5. PROVIDE HEAVY DUTY SLIDES AT ALL FILE DRAWERS, PAPER DRAWERS AND PULL OUT SHELVES.
6. ALL LAMINATE MILLWORK CABINETS (BASE, WALL AND SHELVING) SHALL RECEIVE PLASTIC LAMINATE FINISH ON ALL EXPOSED AND SEMI-EXPOSED SURFACES INCLUDING THE TOP AND BOTTOM SURFACES OF WALL CABINETS.
7. COORDINATE WITH MEP CONTRACTORS AND VERIFY IN FIELD ALL ROUGH PLUMBING, ELECTRICAL & HVAC SERVICE LOCATIONS WHICH INTERFACE WITH MILLWORK. DEPICT ALL ELECTRICAL DEVICES, MECHANICAL GRILLES, ETC. WHICH OCCUR ON OR WITHIN MILLWORK SURFACES IN SHOP DRAWINGS.
8. REFERENCE MILLWORK ELEVATIONS FOR ASSIGNMENT OF LAMINATE COLORS AND OTHER FINISH DESIGNATIONS.
9. ALL LAMINATE FACED MILLWORK SHALL HAVE 3MM PVC EDGES UNLESS OTHERWISE NOTED, INCLUDING ADJUSTABLE SHELVING (WHICH MAY BE BEHIND CABINET DOORS). SEE THE FINISH SCHEDULE FOR PVC EDGE COLORS.
10. ADJUSTABLE SHELVING @ ALL CABINETS SHALL RECEIVE INSTITUTIONAL SHELF SUPPORTS. SEE HARDWARE SCHEDULE.
11. PROVIDE MINIMUM OF (2) HINGES PER CABINET DOOR - (3) PER DOOR 3'-0" TO 48", QUANTITY PER MANF. RECOMMENDATIONS FOR DOORS GREATER THAN 48".
12. CONSTRUCTION OF ALL MILLWORK WITHIN EGRESS CORRIDORS SHALL BE CLASS A FIRE RATED MATERIALS (TYP).
13. PROVIDE TOP CAPS AND TRIM AT ALL LOW WALLS (TYPICAL). FINISH SHALL BE PL. LAMINATE OR SOLID SURFACE AS DENOTED AT THE ARCHITECTURAL DRAWINGS.
14. ALL TALL CABINETS, & FILE CABINETS SHALL BE PROVIDED WITH LOCKS. PROVIDE LOCKS @ BASE & WALL CABINETS ONLY AS SHOWN ON ELEVATIONS.
15. PROVIDE GROMMETS @ ALL WORKSURFACES W/ OPEN KNEESPACE BELOW. FIELD VERIFY GROMMET LOCATIONS.
16. ALL WARDROBE CABINETS SHALL HAVE A FIXED CENTER DIVIDER WITH THE FOLLOWING COMPONENTS ON ONE SIDE: HANGING ROD WITH FIXED SHELF, (ADJUSTABLE) SHELF, MIRROR AT INSIDE FACE OF DOOR AND (MIN. OF 2) COAT HOOKS.
17. PROVIDE A PENCIL TRAY INSERT @ TOP DRAWER OF EACH BOX/BOX/FILE PEDESTAL. REFERENCE MILLWORK HARDWARE SCHEDULE.

GENERAL EQUIPMENT & FIXTURES SCHEDULE

NO.	EQUIPMENT ITEM	MANUF.	MODEL #	OWNER PROVIDED	OWNER INSTALLED	CONTRACTOR PROVIDED	CONTRACTOR INSTALLED	REMARKS
1	PLASMA CUTTER	LINCOLN ELECTRIC	TORCHMATE 4400			●	●	
2	MULTI PROCESS WELDER	LINCOLN ELECTRIC	POWER MIG 215			●	●	EQUIPMENT ONLY. BOOTH BY OTHERS
3	HORIZONTAL BAND SAW	DoALL	DS-280M			●	●	
4	10" PEDESTAL GRINDER	PALMGREN	9682117			●	●	
5	MOBILE WELDING TABLE	BUILDPRO	TA5-7248Q-C1			●	●	
6	HOLD							
7	CLOSET ROD	RECHELIEU	1211604140			●	●	CHROME FINISH WITH CHROME CLOSED END SUPPORTS
8	WELDING HELMET HOOKS	MAKERTABLE.COM	IHD SLIM J HOOK			●	●	BLACK FINISH
9	CNC MILL	TORMACH	1100M			●	●	
10	MATERIAL STORAGE RACK	GLOBAL INDUSTRIAL	WB798899			●	●	
11	VERTICAL SHEET RACK	ULINE	H-8383			●	●	
12	HOLD							
13	FIRE RATED CYLINDER CABINET	USA SAFETY	CBAL16222SFWAAM			●	●	INCLUDE SAFETY CHAIN SET #CB001AM
14	GOGGLE SANITIZING CABINET	FLINN SCIENTIFIC	SE1094			●	●	
15	FIRE BLANKET	FLINN SCIENTIFIC	SE3006			●	●	
16	SCRAP BIN	EXISTING	-	●	●			
17	CHEST FREEZER	EXISTING	-	●			●	
18	HOLD							
19	50" UTILITY & GROOMING STATION	KANIS	-			●	●	LEFT RAMP WITH SHELF
20	WIRE SHELVING UNIT	METRO	-	●			●	36"W x 18"D x 74.5"H - CHROME
21	HYDROPONICS TABLE	EXISTING	SANANBIO RADIX	●			●	
22	AEROPONIC VERTICAL GARDEN WITH LIGHTS	EXISTING	HOME UNIT	●			●	
23	PROJECT TABLE WITH VICES	DIVERSIFIED SPACES	38296			●	●	4-STATION WORKBENCH W/ DOUBLE DOOR STORAGE & 4 VISES - BLACK BASE
24	HOLD							
25	PROJECT TABLE WITHOUT VICES	DIVERSIFIED SPACES	38295			●	●	4-STATION WORKBENCH W/ DOUBLE DOOR STORAGE - BLACK BASE
26	YOGURT COOLER	EXISTING	-	●			●	
27	STUDENT MAILBOXES	ULINE	H-4468BL			●	●	MAIL SORTER - STEEL - 30 COMPARTMENT - BLACK
28	ADA ACCESSIBLE ELECTRIC RANGE	FRIDGIDAIRE	FCFE3083AS			●	●	
29	SIDE BY SIDE REFRIGERATOR	FRIDGIDAIRE	GRSN2620AF			●	●	
30	HOLD							
31	KITCHEN HOOD	KITCHENAID	KVWB400D			●	●	STAINLESS STEEL 30" WALL MOUNT CANOPY HOOD
32	GROOMING TABLE - MOTORIZED	YNHUNDRETH	49" BLACK	●	●			
33	HEAVY DUTY MIXER LIFT W/ SHELF	REV-A-SHELF	ML-MPHDSCCR-18			●	●	
34	FRAMED MAGNETIC WHITEBOARDS	CLARIDGE	TABLEAU			●	●	4'H x WIDTH DESIGNATED- SEE INTERIOR ELEVATIONS
35	FRAMED TACKBOARDS	CLARIDGE	TABLEAU			●	●	4'H x WIDTH DESIGNATED- SEE INTERIOR ELEVATIONS
36	HOLD							
37	MAGNETIC PORCELAIN MARKER WALL	CLARIDGE	ARISE			●	●	SEE INTERIOR ELEVATIONS
38	MOBILE WHITE BOARD	EGAN	VSF4872ECCAEM					48"W x 72"H DOUBLE SIDED MOBILE WHITE BOARD / TACK BOARD
39	MOBILE WORKBENCH	SEVILLE CLASSICS	UHD20242B	●	●			ULTRAHD 12-DRAWER ROLLING WORKBENCH
40	LASER ENGRAVER	EXISTING	XTOOLP2	●	●			
41	SUBLIMATION PRINTER	EXISTING	EPSON F570	●	●			
42	HOLD							
43	VINYL CUTTER	ROLAND	GS-24	●	●			
44	CLAMSHELL HEAT PRESS	USCUTTER	FLHP450	●	●			
45	VR CHARGING CART	EXISTING	-	●	●			
46	PORTABLE LAPTOP CART	ERGOTRON	24-205-214	●	●			
47	FILAMENT DRYING CABINET	EXISTING	AW-3D80P	●	●			
48	HOLD							
49	3D PRINTER	EXISTING	ROBO E4	●	●			
50	3D PRINTER	EXISTING	ROBO E4 PRO	●	●			
51	3D PRINTER	EXISTING	BAMBU LAB X1	●	●			
52	PC	EXISTING	-	●	●			
53	TALL SHELVING UNIT	EXISTING	-	●	●			
54	HOLD							
55	TALL STORAGE CABINET	EXISTING	-	●	●			
56	IPAD CHARGING STATION	EXISTING	-	●	●			
57	IPAD CHARGING DOCK	EXISTING	-	●	●			
58	COPIER / PRINTER	EXISTING	IMAGERUNNER C359IF	●	●			
59	SHREDDER	EXISTING	FELLOWES 300CL	●	●			
60	HOLD							
61	COFFEE MAKER	EXISTING	-	●	●			
62	MICROWAVE	EXISTING	-	●	●			
63	UNDER-COUNTER REFRIGERATOR	SUMMIT	ALRF48	●	●			
64	LATERAL FILE	HON	H482.L.P	●	●			2 DRAWER LATERAL FILE - BLACK
65	ESPORTS DESK / CHAIR	EXISTING	-	●	●			
66	HOLD							
67	FLAT SCREEN DISPLAY (50" LCD) & BRACKET	BY OWNER	BY OWNER	●			●	COORD. w/ OWNER FOR MODEL# AND MOUNTING HEIGHTS PROVIDE IN WALL BLOCKING AS REQ'D.
68	FLAT SCREEN DISPLAY (65" LCD) & BRACKET	BY OWNER	BY OWNER	●			●	COORD. w/ OWNER FOR MODEL# AND MOUNTING HEIGHTS PROVIDE IN WALL BLOCKING AS REQ'D.
69	FLAT SCREEN DISPLAY (75" LCD) & BRACKET	BY OWNER	BY OWNER	●			●	COORD. w/ OWNER FOR MODEL# AND MOUNTING HEIGHTS PROVIDE IN WALL BLOCKING AS REQ'D.
70	FLAT SCREEN DISPLAY (80" LCD) & BRACKET	BY OWNER	BY OWNER	●			●	COORD. w/ OWNER FOR MODEL# AND MOUNTING HEIGHTS PROVIDE IN WALL BLOCKING AS REQ'D.

EQUIPMENT & FIXTURES SCHEDULE NOTES:

1. LOCATIONS AND SIZES OF VISUAL DISPLAY BOARDS (WHITEBOARDS AND TACKBOARDS) ARE TAGGED AT THE FF&E PLAN(S) @ SHEETS A-504. REFERENCE INTERIOR ELEVATIONS FOR SIZE AND PLACEMENT. PLEASE NOTE - FOR THOSE SPACES WHICH DO NOT HAVE ELEVATIONS, THE SIZES OF THE BOARDS ARE DENOTED IN THE FLOOR PLAN.
2. ALL BUILT-IN WORKSTATIONS AND INSTRUCTORS WORKSTATIONS SHALL RECEIVE TELEPHONE AND DESKTOP PC WORKSTATIONS
3. COORDINATE WITH THE DISTRICT FOR SPECIFICATIONS, CUT SHEETS AND INSTALLATION INSTRUCTIONS FOR AUDIO/VIDEO ITEMS WHICH ARE DESIGNATED TO BE PROVIDED "BY OWNER" AND INSTALLED BY THE CONTRACTOR.
4. REFERENCE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR DEVICES REQUIRING GROUND FAULT PROTECTION, SPECIALTY CONNECTIONS AND LOCATIONS FOR ALL FIRE ALARM, AND SPECIAL SYSTEMS DEVICES.
5. REFERENCE SECURITY AND ELECTRICAL DRAWINGS, AS WELL AS SPECIFICATIONS FOR CARD READER AND CAMERA LOCATIONS AND OTHER SECURITY SYSTEM DEVICES AND INFORMATION.
6. REFERENCE PLUMBING DRAWINGS AND SPECIFICATIONS FOR ASSOCIATED PRODUCT AND INSTALLATION INFORMATION.
7. FINAL HOOK-UP OF ALL OWNER PROVIDED EQUIPMENT AND APPLIANCES REQUIRING MECHANICAL, PLUMBING OR HARDWIRED ELECTRICAL SERVICES SHALL BE BY THE CONTRACTOR.
8. REFERENCE ARCHITECTURAL FLOOR PLANS FOR LOCATIONS OF THE FOLLOWING:
   - FIRE EXTINGUISHERS
   - TACKBOARD/WHITEBOARDS (ALSO SEE NOTE #1 ABOVE)
   - TOILET ROOM ACCESSORIES
9. ENLARGED TOILET ROOM PLANS DO NOT COVER ALL PLUMBING ACCESSORY LOCATIONS. SEE FLOOR PLANS AND INTERIOR ELEVATIONS FOR ADDITIONAL FIXTURE LOCATIONS:
   - ALL SINKS WITHIN CLASSROOMS, STAFF BREAK AREAS, KITCHEN AREAS, NURSES SUITE ETC. SHALL RECEIVE PAPER TOWEL AND SOAP DISPENSERS ACCORDING TO THE ACCESSORY SCHEDULE UNLESS OTHERWISE NOTED.
   - WASH FOUNTAIN AT THE TECHNOLOGY LAB SHALL RECEIVE A MIRROR - SEE ELEVATIONS

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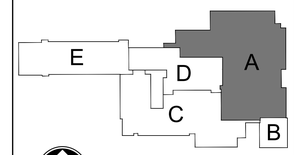

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

EQUIPMENT PLANS AND SCHEDULE

DRAWN BY:	CHECKED BY:
A.L.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

A-504

CAD FILE: 5005-A-504.DWG PLOT DATE: 11/10/2025

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DOOR SCHEDULE

	DOOR NO.	TYPE	MAT'L	NOMINAL SIZE WIDTH	NOMINAL SIZE HEIGHT	NOMINAL SIZE THKNS.	GLASS TYPE	FRAME TYPE	FRAME MAT'L	JAMB TYPE	JAMB MAT'L	HEAD TYPE	HEAD MAT'L	THRESHOLD TYPE	THRESHOLD MAT'L	HARD-WARE SET	FIRE RATING	REMARKS
GROUND FLOOR	V001A	-	-	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	-	DOORS BY OWNER
	V001B	-	-	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	-	DOORS BY OWNER
	V001C	-	-	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	-	DOORS BY OWNER
	V001D	-	-	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	-	DOORS BY OWNER
	V001E	-	-	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	-	DOORS BY OWNER
	V001F	-	-	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	-	DOORS BY OWNER
	V001G	-	-	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	-	DOORS BY OWNER
	V001H	-	-	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	-	DOORS BY OWNER
	C003	M	WD	EXIST	EXIST	EXIST	FRSG	F-11	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR AND FRAME
	ST5-0	F	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	ST5-1	D	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	90 MIN.	REPLACE GLASS IN EXISTING DOOR
	ST6-0	E	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	C005	M	WD	EXIST	EXIST	EXIST	FRSG	F-11	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR AND FRAME
	C006A	M	WD	EXIST	EXIST	EXIST	FRSG	F-11	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR AND FRAME
	024	L	WD	EXIST	EXIST	EXIST	FRSG	F-14	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR AND FRAME
	024A	P	WD	3' - 0"	7' - 0"	1 3/4"	FRSG	F4	HM	J-2	HM	H-2	HM	T-1	ALUM.	1	45 MIN.	
	024B	Q	WD	3' - 0"	7' - 0"	1 3/4"	FRSG	F6	HM	J-2	HM	H-2	HM	T-1	ALUM.	1	45 MIN.	
	024C	Q	WD	3' - 0"	7' - 0"	1 3/4"	TEMP	F8	HM	J-2	HM	H-2	HM	T-1	ALUM.	2	-	
	025A	R	ALUM	3' - 0"	7' - 0"	1 3/4"	FRSG	F-13	HM	J-1	HM	H-1	HM	T-1	ALUM.	3	45 MIN.	
	C007	M	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	031A	G	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	90MIN.	REPLACE GLASS IN EXISTING DOOR
	031B	G	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	90 MIN.	REPLACE GLASS IN EXISTING DOOR
	031C	G	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	90 MIN	REPLACE GLASS IN EXISTING DOOR
	031D	G	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	90 MIN.	REPLACE GLASS IN EXISTING DOOR
	031E	F	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	90 MIN.	REPLACE GLASS IN EXISTING DOOR
	031F	G	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	90MIN.	REPLACE GLASS IN EXISTING DOOR
	031G	G	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	90 MIN.	REPLACE GLASS IN EXISTING DOOR
	031H	G	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	90 MIN.	REPLACE GLASS IN EXISTING DOOR
	032	F	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	034A	E	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	034B	T	WD	(2) 3' - 0"	7' - 0"	1 3/4"	FRSG	F10	HM	J-2	HM	H-2	HM	T-1	ALUM.	4	90 MIN.	MAG DOOR HOLD OPEN TIED INTO FIRE ALARM
	034C	R	WD	3' - 0"	7' - 0"	1 3/4"	FRSG	F5	HM	J-2	HM	H-2	HM	T-1	ALUM.	1	90 MIN.	
	034D	D	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	034E	O	AL	9'-7"	8'-0"	1 3/4"	-	-	-	J-5	STL	-	-	-	-	5	-	
	034F	O	AL	8'-0"	8'-0"	1 3/4"	-	-	-	J-5	STL	-	-	-	-	5	-	
	034G	A	WD	3' - 0"	7' - 0"	1 3/4"	FRSG	F1	HM	J-3	HM	H-4	HM	T-1	ALUM.	1	45 MIN.	
	036	D	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	040	D	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	C010	-	-	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	90 MIN.	REPLACE GLASS IN EXISTING DOOR
	B08	-	-	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	-	REPLACE GLASS IN EXISTING DOOR
	B09	-	-	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	-	REPLACE GLASS IN EXISTING DOOR
FIRST FLOOR	129	J	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	131	I	WD	EXIST	EXIST	EXIST	FRSG	F3	HM	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR AND FRAME
	132	I	WD	EXIST	EXIST	EXIST	FRSG	F3	HM	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR AND FRAME
	133	I	WD	EXIST	EXIST	EXIST	FRSG	F3	HM	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR AND FRAME
	134A	I	WD	EXIST	EXIST	EXIST	FRSG	F3	HM	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR AND FRAME
	134B	I	WD	EXIST	EXIST	EXIST	FRSG	F3	HM	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR AND FRAME
	C100A	G	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	90 MIN.	REPLACE GLASS IN EXISTING DOOR
	C100B	M	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	C102	L	WD	EXIST	EXIST	EXIST	FRSG	F10	HM	J-2	HM	H-2	HM	T-1	ALUM.	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR AND FRAME
	C107	G	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	ST6-1	E	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	-	REPLACE GLASS IN EXISTING DOOR
	138	R	WD	3' - 0"	7' - 0"	1 3/4"	FRSG	F-1	HM	J-1	HM	H-1	HM	T-1	ALUM.	2	-	
	143	E	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	144	D	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	145A	E	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	145B	E	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	ST9-1	D	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	146A	G	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	146B	G	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	146C	F	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	146D	G	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	146E	G	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	146F	F	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	147	I	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	C103A	M	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	C103B	E	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	C103C	G	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	150	I	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	151	I	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	153D	I	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	ST8-1	B	WD	EXIST	EXIST	EXIST	FRSG	F12	HM	J-2	HM	H-2	HM	T-1	ALUM.	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR AND FRAME
	154A	I	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	90 MIN.	REPLACE GLASS IN EXISTING DOOR
	154B	F	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	90 MIN.	REPLACE GLASS IN EXISTING DOOR
	C106	W	WD	EXIST	EXIST	EXIST	FRSG	F12	HM	J-2	HM	H-2	HM	T-1	ALUM.	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR AND FRAME
	C115A	M	WD	EXIST	EXIST	EXIST	FRSG	F1	HM	J-3	HM	H-3	HM	T-1	ALUM.	-	90 MIN.	REPLACE GLASS IN EXISTING DOOR AND FRAME
	C115B	M	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	116	F	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	ST4-1	I	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	90 MIN.	REPLACE GLASS IN EXISTING DOOR
	160A	E	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	160B	E	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	164	F	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	166	I	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	171	H	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	174	F	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	178	E	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
SECOND FLOOR	201	F	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	ST9-2	D	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	215	F	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	229A	I	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	229B	I	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	C200	G	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	90 MIN	REPLACE GLASS IN EXISTING DOOR
	ST8-2	K	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	236	I	WD	EXIST	EXIST	EXIST	FRSG	-	-	-	-	-	-	-	-	-	45 MIN.	REPLACE GLASS IN EXISTING DOOR
	ST10-2	M	WD	EXIST	EXIST	EXIST	FRSG	F11	HM	J-2	HM	H-2	HM	T-1	ALUM.	-	45 MIN	REPLACE GLASS IN EXISTING DOOR AND FRAME

DOOR & HARDWARE NOTES

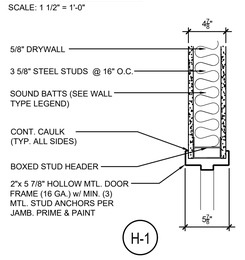
1. GENERAL CONTRACTOR SHALL VERIFY ALL DOOR / FRAME SIZES, DIMENSIONS, DOOR SWINGS, DOOR / FRAME MATERIALS, DOOR / FRAME TYPES, FRAME WIDTH AND DEPTH, THROAT DEPTH AND FRAME HEAD HEIGHT.
2. GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE ALL DOOR HARDWARE REQUIREMENTS FOR ALL FRAMES INDICATED. ALL SUBMITTALS ISSUED TO THE ARCHITECT SHALL REFLECT THIS FIELD VERIFIED COORDINATION.
3. ALL FRAMES SHALL BE SHIMMED / CAULKED IN ACCORDANCE WITH ACCEPTED PRACTICES.
4. ALL EXTERIOR HOLLOW METAL DOORS / FRAMES INDICATED SHALL BE GALVANIZED STEEL AND ALL EXTERIOR DOORS AND FRAMES SHALL BE INSULATED.
5. ALL HOLLOW METAL FRAMES IN MASONRY WALLS ARE TO BE GROUTED SOILD, INCLUDING HEADS.
6. ANY / ALL WOOD DOORS ARE TO BE SOLID CORE. ALL WOOD DOOR EDGES SHALL BE FACTORY FINISHED TO MATCH DOOR FACE VENEER / FINISH.
7. SEE SPECIFICATIONS FOR HARWARE SETS FOR ALL DOORS.
8. REFER TO FINISH SCHEDULE FOR FINISHES.
9. REFER TO FLOOR PLANS FOR APPROPRIATE DOOR SWINGS.
10. ALL HOLLOW METAL FRAMES SHALL BE WELDED, NO KNOCK-DOWN FRAMES WILL BE ACCEPTED.
11. GENERAL CONTRACTOR SHALL VERIFY ALL THRESHOLDS, DOOR UNDERCUTS/LOUVER SIZES, W/ NEW AND EXISTING DOORS.
12. THE USE OF THRU-BOLTING FOR ANY DOOR HARDWARE WILL NOT BE ACCEPTED.
13. GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY DOORS / FRAMES THAT REQUIRE CONDUITS OR WIRING INSTALLATION FOR FUTURE ELECTRICAL CONNECTIONS REQUIRED FOR HARDWARE, LIGHTING, ETC.
14. ALL EXTERIOR DOORS/FRAMES INDICATED SHALL BE HOLLOW METAL AND ALL EXTERIOR DOORS/FRAMES SHALL BE INSULATED AND FRAMES TO BE THERMALLY BROKEN.
15. ALL SEALANTS / CAULK TO BE PICK-RESISTANT CAULK AS MANUFACTURED BY: SUREBOND SB-190 EVERSEAL, BASF MASTEREAL CR 190 OR PECORA DYNAFLEX SC.
16. PROVIDE ACCESS CONTROL.
17. PROVIDE HANDS-FREE OPERATION.

MATERIALS

HOLLOW METAL - H.M.
ALUMINUM - AL., ALUM.
WOOD - WD
STEEL - STL.
LAMINATED SAFETY GLASS - LAM
FIRE RATED SAFETY GLASS - FRS
TEMPERED SAFETY GLASS - TEMP

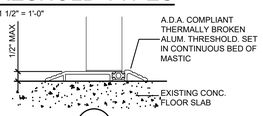
HEAD TYPES

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



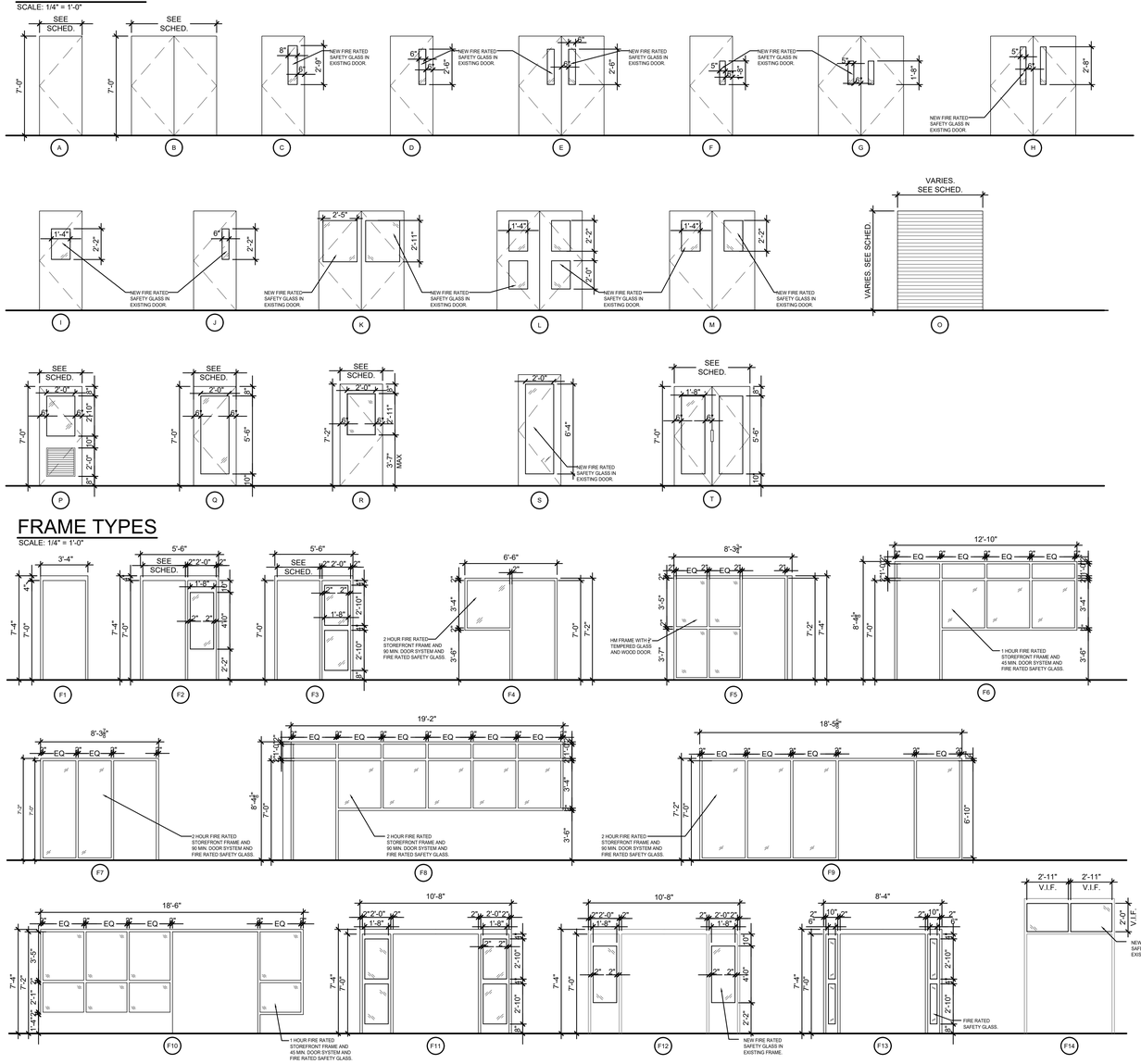
THRESHOLD TYPES

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



DOOR TYPES

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

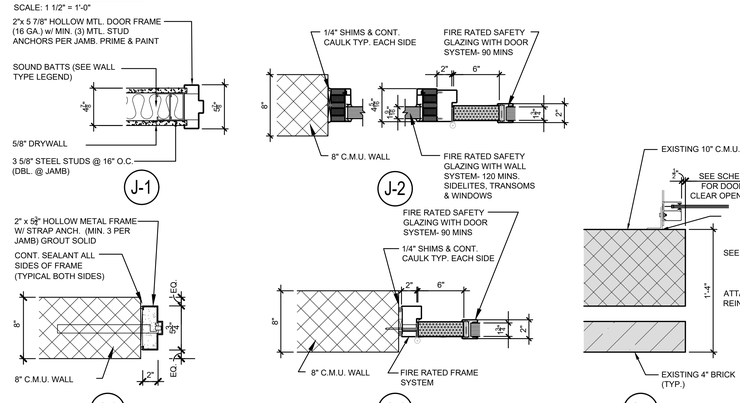


FRAME TYPES

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

JAMB TYPES

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



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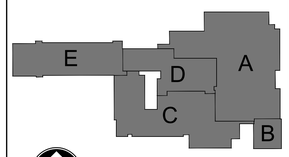

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

DOOR SCHEDULE, TYPES & DETAILS

DRAWN BY:	CHECKED BY:
A.L. / T.M. / A.G.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

A-601

CAD FILE: 5005-A-601.DWG PLOT DATE: 11/10/2025

WINDOW LEGEND:

(R)	RESCUE WINDOW TYPICAL
(R) SLIDER	RESCUE WINDOW TO PROVIDE MIN. CLEAR OPENING OF AT LEAST 6 SQ. FT. AND MIN. DIM. OF 24". COMPLY WITH NYSED REQUIREMENT. 7.5 SQ. FT. CLEAR AREA PROVIDED.
5" MIN. MATCH EXISTING SIZE. RESCUE WINDOW 5" MIN. MATCH EXISTING. SCALE: N.T.S.	STICKER TO HAVE BRIGHT YELLOW BACKGROUND W/ BLACK LETTERS TEXT TO BE READABLE FROM BOTH SIDES OF WINDOW. ANY WINDOW COVERINGS ALSO TO HAVE LABELS AND WINDOW OPERATING INSTRUCTIONS IF NOT READILY APPARENT.
	NOTE: REFER TO DRAWINGS FOR RESCUE WINDOW LOCATIONS

NOTE:
DURING INSTALLATION MAKE SURE THAT TOP OF SILL HAS SLIGHT SLOPE TO EXTERIOR.

END DAM TURNED UP 2"

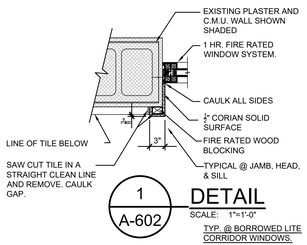
.063 EXTRUSION ALUMINUM ALLOY ONE PIECE SILL PAN

SET IN A CONT. BED OF MASTIC

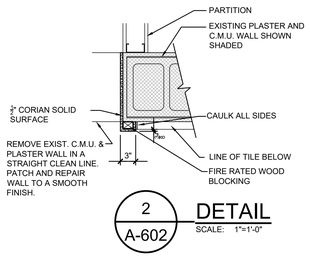
TYPICAL SILL PAN ISO- METRIC DETAIL @ WINDOWS
SCALE: N.T.S.

NOTE:

1. CONTRACTOR/WINDOW MFG. TO FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
2. PROVIDE ALUM. SILL FLASHING BY WINDOW MFGR. TO MATCH EXISTING. FIELD VERIFY ALL EXISTING CONDITIONS.
3. ALL EXISTING INTERIOR WINDOW SILLS TO MATCH EXISTING. WINDOW MFGR TO PROVIDE ALUM. EXTENDER TRIM @ HEAD, JAMB, AND SILL TO MATCH WINDOW SYSTEM.
4. PROVIDE CONTINUOUS SEALANT AT HEAD, JAMBS AND SILL - EXTERIOR AND INTERIOR.



1 / A-602 DETAIL
SCALE: 1"=1'-0"
TYP. @ BORROWED LITE CORRIDOR WINDOWS.



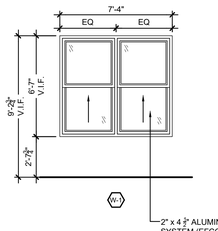
2 / A-602 DETAIL
SCALE: 1"=1'-0"

EXTERIOR WINDOW TYPES

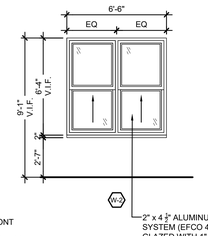
BUILDING PART E FIRST FLOOR (25)

BUILDING PART E SECOND FLOOR (25)

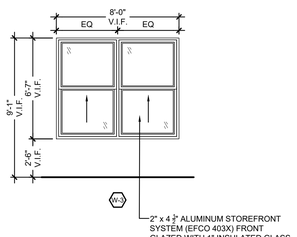
LEARNING COMMONS (6)



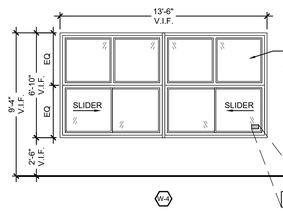
WELDING ROOM (2)



CHORUS ROOM (3)

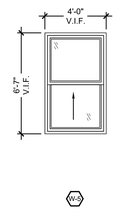


ESPORTS (1)

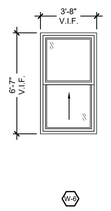


BUILDING PART "E" FIRST FLOOR (4)

BUILDING PART "E" SECOND FLOOR (4)

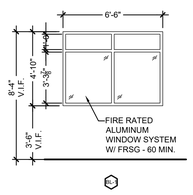


BUILDING PART "E" SECOND FLOOR (2)

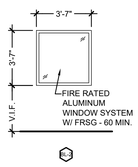


BORROWED LITE TYPES:

CORRIDOR 4 - C004 (1)

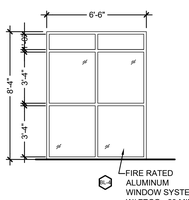


OFFICE - 153D (1)

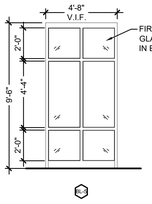


OFFICE - 153D (1)

COMPUTER LAB - 024B (1)



STEAM LAB - 024 (2)



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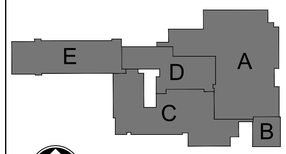

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

WINDOW TYPES AND DETAILS

DRAWN BY:	CHECKED BY:
T.M.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

A-602

CAD FILE: 5005-A-602.DWG PLOT DATE: 11/10/2025

ROOM FINISH SCHEDULE

	SPACE NO.	SPACE NAME	FLOOR	BASE	WALLS (NOTE: FOR PURPOSES OF THE FINISH SCHEDULE "NORTH" SHALL BE CONSIDERED TO BE THE TOP OF THE SHEET.) N	WALLS E	WALLS S	WALLS W	CEILING FIN.	CEILING HGT.	DOORS	FRAMES	NOTES
GROUND FLOOR	C006A	TICKETS	-	-	-	-	-	-	-	-	-	-	SEE NOTES: -
	024	STEAM LAB	F-4 / COLOR 1	B-1	P-X	P-X	WC-1	WC-1	C-2 / P-3	10'-0"	D-1	FR-1	SEE NOTES: -
	024A	ENGRAVING ROOM	F-4 / COLOR 1	B-1	P-X	P-X	P-X	P-X	C-1	10'-0"	D-1	FR-1	SEE NOTES: -
	024B	COMPUTER / 3D PRINTING LAB	F-4 / COLOR 1	B-1	P-X	P-X	P-X	P-X	C-4	10'-0"	D-1	FR-1	SEE NOTES: -
	025	LIBRARY / MEDIA CENTER	F-1	B-1	P-X	P-X	P-X	P-X	C-3	10'-0"	D-1	FR-1	SEE NOTES: -
	025A	ROOM NOT USED	-	-	-	-	-	-	-	-	-	-	-
	025B	SERVER	F-1	B-1	P-X	P-X	P-X	P-X	C-1	10'-0"	EXIST'G	FR-1	SEE NOTES: -
	034	AGRICULTURE LAB	F-4 / COLOR 2	B-1	P-X	P-X	P-X	P-X	NOTE #X	14'-2"	D-1	FR-1	SEE NOTES: -
	034A	STORAGE	EXISTING	B-1	P-X	-	-	-	EXIST.	14'-2"	D-1	FR-1	SEE NOTES: -
	034B	WELDING ROOM	F-4 / COLOR 2	B-1	P-X	P-X	P-X	P-X	P-X / C-6	14'-2"	D-1	FR-1	SEE NOTES: -
	034C	ANIMAL ROOM	F-4 / COLOR 2	B-1	P-X	P-X	P-X	P-X	C-1	10'-0"	D-1	FR-1	SEE NOTES: -
FIRST FLOOR	128	eSPORTS ROOM	F-2	B-1	WC-1	P-X	WC-1	P-X	EXIST'G	-	EXIST'G	FR-1	SEE NOTES: -
	138	I.T. CENTER	F-3	B-1	P-X	P-X	P-X	P-X	EXIST'G	-	D-1	FR-1	SEE NOTES: -
	138A	I.T. CLOSET	F-3	B-1	P-X	P-X	P-X	P-X	EXIST'G	-	EXIST'G	FR-1	SEE NOTES: -
	138B	I.T. STORAGE	F-3	B-1	P-X	P-X	P-X	P-X	EXIST'G	-	EXIST'G	FR-1	SEE NOTES: -

ATTIC STOCK:

CONTRACTOR SHALL PROVIDE MATERIAL FOR ATTIC STOCK AS LISTED BELOW.

NOTE: PROVIDE ALL ATTIC STOCK MATERIALS IN ORIGINAL CARTONS. ALSO WRAP AND LABEL ANY FULL SIZE TILES AND USABLE CUTS FROM OPEN CARTONS REMAINING FROM INSTALLATION, AND PLACE IN STORAGE AS DIRECTED BY THE OWNER.

FLOOR FINISHES:

PRODUCT F-1: (1) FULL CARTON OF ALL STYLES, REMAINING FULL SIZE TILES FROM INSTALLATION & USABLE CUTS FROM INSTALLATION OF ALL STYLES.
PRODUCT F-2: (1) FULL CARTON (XX SF) AND REMAINING FULL SIZE TILES FROM INSTALLATION.
PRODUCT F-3: (1) FULL CARTON (XX SF) AND REMAINING FULL SIZE TILES FROM INSTALLATION.

CEILING TILES :

C-1:	OPTIMA TEGULAR #3251:	2' X 2' x 1"	2 CARTONS (48 S.F. per CARTON)
C-2:	VAPOR "CLUSTER" DENSE:	2' X 4' x 1-1/2"	TBD
C-3:	CALLA SHAPES for DESIGNFLEX:		
	#100106 60° TRAPEZOID, 48" BASE	2' X 4' X 1"	
	#100101: 60° TRIANGLE, 24" BASE		
C-4:	CIRRUS HIGH-NRC #556:	2' X 2' X 7/8"	1 CARTON (40 S.F. per CARTON)

WALL PROTECTION:

CG-1: CO-8 SERIES 90° SURFACE MOUNTED CORNER GUARD: PROVIDE A QUANTITY OF (2) FOR ATTIC STOCK.

ADDITIONAL FINISHES SCOPE:

1. REFERENCE ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND ABATEMENT DRAWINGS FOR FULL EXTENT OF SPACES THAT ARE AFFECTED BY DEMOLITION AND/ OR RENOVATIONS. PATCH AND REPAIR EXISTING FINISHES IN KIND WHICH ARE DISTURBED BY DEMOLITION AND/OR RENOVATION AT ALL AREAS WITHIN THE SCOPE OF WORK WHICH ARE NOT OTHERWISE ADDRESSED ON A ROOM BY ROOM BASIS IN THE FINISH SCHEDULE AT THIS SHEET, AS WELL AS SPACES WITHIN THE FINISH SCHEDULE WHICH ARE DESIGNATED w/ EXISTING FINISHES TO REMAIN.
   - ANTICIPATE SURFACE PREP & REPAIRS RELATED TO DEMOLITION AS WELL AS SURFACE PREP AND REPAIRS WHICH MAY BE REQUIRED FOR INSTALLATION OF NEW & PATCHING OF EXIST'G FINISHES.
   - INSTALLATION OF NEW DOORS AND/OR FRAMES WHICH OCCUR IN SPACES WHICH ARE NOT DESIGNATED TO RECEIVE NEW FINISHES WITHIN THE SCHEDULE ABOVE SHALL REQUIRE PATCH AND REPAIR OF EXIST'G FINISHES TO REMAIN. PROVIDE WALL FINISH, FLOOR FINISH & BASE MATERIAL PATCHES AND REPAIRS AT EACH LOCATION.
   - WALL PAINTS WHICH CANNOT BE MATCHED FOR COLOR AND/OR SHEEN SHALL BE RE-PAINTED IN THEIR ENTIRETY.
   - ALL EXISTING HM DOORS AND/ OR HM FRAMES OCCURRING WITHIN WALLS PAINTED IN THEIR ENTIRETY WHETHER DESIGNATED IN THE FINISH SCHEDULE OR PAINTED DUE TO PATCH AND REPAIR SHALL ALSO BE PAINTED IN THEIR ENTIRETY.
   - ANTICIPATE PATCH AND REPAIR OF FLOORINGS & BASE AS WELL AS PAINTS AT WALLS FOR UNDER FLOOR DEMOLITION AND /OR INSTALLATIONS REQUIRED FOR MEP SCOPE OF WORK.
   - ANTICIPATE PATCH AND REPAIR OF CEILINGS AS WELL AS PAINTS AT WALLS AND SOFFITS FOR ABOVE CEILING DEMOLITION AND/OR INSTALLATIONS REQUIRED FOR MEP SCOPE OF WORK.

GENERAL NOTES for INTERIOR FINISHES:

1. FOR PURPOSES OF THE FINISH SCHEDULE, NORTH SHALL BE CONSIDERED TO BE THE TOP OF THE SHEET MS - PLEASE NOTE - THIS IS NOT CONSISTENT WITH "TRUE NORTH" AS INDICATED ON THE FLOOR PLANS.
2. PAINTED FINISHES SHALL BE AS FOLLOWS:
   - UNLESS OTHERWISE NOTED, PAINTED GYPSUM WALLS, CEILINGS, AND SOFFITS SHALL BE SATIN FINISH - SHERWIN WILLIAMS PROMAR 200 ZERO VOC INTERIOR LATEX SERIES.
     - ADJUST SHEEN PER MFGR. RECOMMENDATIONS FOR DARKER COLORS TO AVOID BURNISHING.
   - UNLESS OTHERWISE NOTED, PAINTED H.M. AND WOOD DOORS, FRAMES AND TRIMS SHALL BE SEMI-GLOSS FINISH - SHERWIN WILLIAMS ACRYLIC SERIES.
   - UNLESS OTHERWISE NOTED, PAINTED WOOD TRIMS & CHAIR RAILS SHALL BE SEMI-GLOSS FINISH - SHERWIN WILLIAMS PRO INDUSTRIAL ACRYLIC SERIES.
3. INSTALL VAPOR EMISSIONS CONTROL PRODUCT AT ALL (CONCRETE) FLOOR AREAS DESIGNATED TO RECEIVE RESILIENT VINYL TILE, MODULAR CARPETING, OR OTHER RESINOUS OR ADHERED FLOORING MATERIALS. PRODUCT SHALL BE KOESTER VAP I 2000 SYSTEM AS MANUFACTURED BY KOESTER AMERICAN CORPORATION OR EQUAL SYSTEM. REFERENCE ARCHITECTURAL SPECIFICATIONS AND MANUFACTURER'S PRODUCT LITERATURE FOR SYSTEM REQUIREMENTS (TYPICAL).
4. ALL WOOD TRIMS, CASINGS, BASE AND MISC. EDGE BANDS, VENEERS OR TRIMS TO BE STAINED SHALL BE STAINED AND FINISHED TO MATCH ONE ANOTHER USING THE ARCHITECT'S SAMPLE (OR ADJACENT FINISH AS INDICATED IN THE FINISH NOTES) AS THE CONTROL SAMPLE. FIELD FINISHED MATERIALS SHALL BE PREPARED AND TREATED SO AS TO ACHIEVE A FURNITURE GRADE "SATIN" FINISH. SUBMIT ACTUAL SAMPLES ON ACTUAL WOOD MATERIAL(S) FOR APPROVAL BY ARCHITECT PRIOR TO FINISHING OF ANY PROJECT MATERIALS.
5. FACES AND DOORS OF ELEC. PANELS, ACCESS PANELS, HATCHES, ETC. WHICH FULLY OCCUR AT WALLS TO RECEIVE WALLCOVERING OR FINISHED WALL PANELS SHALL ALSO BE COVERED W/ WALLCOVERING OR FINISHED PANEL - MATCH ANY PATTERNS IN HORIZONTAL AND VERTICAL DIRECTIONS. PANELS, HATCHES, ETC. WHICH OCCUR AT PAINTED WALLS (OR CEILINGS) OR WHICH SPAN A TRANSITION BETWEEN PAINT AND WALLCOVERING SHALL BE PAINTED TO MATCH THE WALL/ CEILING AT WHICH IT OCCURS (INCLUDING NEW ITEMS THAT HAVE AN UNMATCHED FACTORY ENAMEL FINISH - THE EXCEPTION SHALL BE ITEMS WHICH HAVE A BRASS, STAINLESS STEEL, ANOD. ALUM., OR BRONZE FACTORY FINISH. POWDER COATED OR FACTORY PAINTED "WHITE" ENAMEL HATCHES WHICH OCCUR AT "WHITE" PAINTED CEILINGS MAY ALSO BE EXCLUDED.
6. PROVIDE AND INSTALL REDUCERS, ADAPTERS, TRANSITIONS, AND THRESHOLDS (INCLUDING AT DOORWAYS) AS REQUIRED AT TRANSITIONS AND/OR TERMINATIONS OF FLOORINGS. COLOR OF RESILIENT REDUCERS SHALL BE AS INDICATED IN THE FINISH LEGEND.
7. AS PER REGULATIONS DO NOT PAINT SPRINKLER HEADS, COVERS, OR TRIM.
8. SEE NOTES @ THIS SHEET FOR ATTIC STOCK REQUIREMENTS.
9. ALL FURNITURE SHOWN AT PLAN ARE N.I.C.
10. ALL PRODUCTS UTILIZED FOR WHICH SPECIFICATION SELECTIONS HAVE NOT BEEN ISSUED SHALL BE CONSIDERED THE BASIS OF DESIGN AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SUBMITTAL INFORMATION IS TO BE PROVIDED AS DESCRIBED IN DIVISION 01 OF THE SPECIFICATIONS FOR ALL PRODUCTS.

ROOM FINISH LEGEND:

FLOORINGS

F-1: MODULAR CARPET
THE FOLLOWING STYLES ARE USED TO CREATE FLOOR FINISH PATTERN(S):

MFGR: MOHAWK GROUP
STYLE(S): #1: -
COLOR:
#2: -
COLOR:
#3: -
COLOR:
INSTALLATION: TBD
SEE FLOOR FINISH PLAN
CONTACT: CONNIE HASARA
PH: -

F-2: MODULAR CARPET
MFGR: -
STYLE: -
COLOR: "TBD"
INSTALLATION: -
SEE FLOOR FINISH PLAN
CONTACT: -
PH: -

F-3: STATIC DISSIPATIVE TILE
MFGR: ROPPE
STYLE: ESD RUBBER STATIC CONTROL TILE
COLOR: "TBD"
INSTALLATION: -
SEE FLOOR FINISH PLAN
CONTACT: MARILYN SAENZ
PH: -

F-4: DECORATIVE FLAKE BROADCAST FLOOR SYSTEM
MFGR: TORGINOL
DISTR'B: SHERWIN WILLIAMS
SERIES: POLYMER FLAKE
COLOR(S): #1: "CUSTOM BLEND" of the following colors:
#--- - XX% (½" FLAKE SIZE)
#--- - XX% (½" FLAKE SIZE)
#--- - XX% (½" FLAKE SIZE)
#--- - XX% (½" FLAKE SIZE)
#2: "CUSTOM BLEND" of the following colors:
#--- - XX% (½" FLAKE SIZE)
#--- - XX% (½" FLAKE SIZE)
#--- - XX% (½" FLAKE SIZE)
#--- - XX% (½" FLAKE SIZE)
COVERAGE: FULL COVERAGE
THICKNESS: 1/8" THICK (TOTAL SYSTEM)
CONTACT: JOEL STILWELL
PH: 412-389-5635

BASE MATERIALS:

B-EX: WALL BASE (TO MATCH EXISTING)
MFGR: TO MATCH EXISTING
MATERIAL: TO MATCH EXISTING
SIZE: TO MATCH EXISTING
COLOR: TO MATCH EXISTING

B-1: 4" RUBBER BASE & TRANSITIONS
MFGR: ROPPE
STYLE: PINNACLE
PROFILE: 4"H
COLOR: #100 "BLACK"

RESILIENT TRANSITIONS:
PROVIDE ROPPE REDUCERS/ADAPTERS & TRANSITIONS:
- AS REQUIRED AT EDGES OF DIFFERENT HEIGHT FLOORINGS.
- AT EDGES OF SAME OR VERY SIMILAR HEIGHT FLOORINGS.

COLOR: #100 "BLACK"
CONTACT: MARILYN SAENZ
PH: 215-932-2291

B-2: INTEGRAL EPOXY COVE BASE SYSTEM
MFGR: TORGINOL
PRODUCT: TO MATCH FLOOR FINISH F-4: (DECORATIVE FLAKE BROADCAST FLOOR SYSTEM)
HEIGHT: 4"H
CORNER: ¾" RADIUS COVE

WALL FINISHES / PAINTS:

P-EX: PAINT (TO MATCH EXISTING)
VARIOUS EXISTING PAINT COLORS EXIST WITHIN THE SCHOOL AT WALLS, CEILINGS, DOORS AND FRAMES. COLOR INFORMATION MAY BE AVAILABLE FROM THE DISTRICT, HOWEVER, COLOR MATCHING MAY ALSO BE REQUIRED. FIELD VERIFY COLOR AND SHEEN AT AREAS OF PATCH AND REPAIR WORK.

P-1: PAINT
MFGR: SHERWIN WILLIAMS
COLOR: # SW ---- "PURE WHITE"

P-2: PAINT
MFGR: SHERWIN WILLIAMS
COLOR: # SW 6258 "TRICORN BLACK"

P-3: PAINT
MFGR: SHERWIN WILLIAMS
COLOR: # SW 6868 "REAL RED"

P-4: PAINT
MFGR: SHERWIN WILLIAMS
COLOR: # SW ---- "ZIRCON"

P-5: PAINT
MFGR: SHERWIN WILLIAMS
COLOR: # SW ---- "TBD"

P-6: PAINT
MFGR: SHERWIN WILLIAMS
COLOR: # SW ---- "TBD"

P-7: PAINT
MFGR: SHERWIN WILLIAMS
COLOR: # SW ---- "TBD"

WALL FINISHES / PANELS:

WC-1: VINYL SUPER-GRAPHIC WALLCOVERING
MFGR: TAKEFORM
STYLE: AMPLIFY / SELF-ADHESIVE
PRODUCT #: SA-105 "TRAFFIC"
THICKNESS: 4 MIL
ROLL WIDTH: 54"W
FLAMMABILITY: ASTM E84 CLASS A/1
NOTE: Graphic To Be Confirmed by Architect in Shop Drawing Review
CONTACT: PH: 800-528-1398

WALL PROTECTION PRODUCTS:

WPP-1: METAL SHEET
MFGR: ACROVYN
DISTR'B: CONSTRUCTION SPECIALTIES
MATERIAL: TYPE 304 STAINLESS STEEL
SIZE: 4' x 8' SHEET
FINISH: "DIAMOND PLATE"
NOTE: MECHANICALLY FASTENED
CONTACT: WADE BROWN
PH: 570-220-6017

CG-1: STAINLESS STEEL CORNER GUARDS
MFGR: IN-PRO CORP.
STYLE: 90° SURFACE MOUNTED
SIZE: 2" TYPE 304 /16 GAUGE FULL HEIGHT
MOUNT: MECHANICALLY FASTEN
CONTACT: ABBEY RICE
PH: 800-222-5556 x5094

CEILINGS:

C-1: HIGH-NRC ACOUSTICAL CEILING TILE
MFGR: ARMSTRONG
PRODUCT: ULTIMA HIGH NRC (0.85 NRC / 35 CAC / 170 AC)
ITEM #: # 2081
SIZE: 24" X 24" X 1"
COLOR: WHITE (WH)
EDGE: BEVELED TEGULAR
GRID: 15/16" PRELUDE / COLOR: WHITE
CONTACT: BENJAMIN HINKLE
PH: 717-719-3764

C-2: METAL PERFORATED CEILING TILE
MFGR: ARKTURA
DISTR'B: NOLAN BRANDS
STYLE: VAPOR
PATTERN: "CLUSTER" - DENSE
PROD. NO.: -
SIZE: 24" x 48" x 1-1/2" TOTAL THICKNESS
MATERIAL: POWDER COATED ALUMINUM
COLOR: "TBD"
GRID: MFGR: ARMSTRONG
STYLE: 15/16" FLAT T-GRID
COLOR: TBD
NOTE: COORDINATE W/ ELECTRICAL DWGS FOR INTEGRAL LIGHT FIXTURE LAYOUT.
CONTACT: RYAN GRAVER
PH: 609-668-5954

C-3: DECORATIVE ACT
MFGR: ARMSTRONG
PRODUCT: CALLA SHAPES FOR DESIGNFLEX
PATTERN: STYLE # SH 32
ACOUSTICS: (0.80 NRC / 35 CAC)
SIZE(S): SHAPES USED IN THIS PATTERN:
#100109: 60° TRAPEZOID, 48" BASE
#100101: 60° TRIANGLE, 24" BASE
COLOR: WHITE (WH)
EDGE: SQUARE TEGULAR
GRID: 9/16" SUPRAFINE XM for SHAPES
2' MAIN BEAM SPACING / COLOR: WHITE
NOTE: AXIS GEOMETRIX LIGHTING & PRICE INDUSTRIES SHAPED DIFFUSERS SHALL BE INSTALLED WITH THIS CEILING TYPE. REFERENCE RCP, MECH. & ELECT. DRAWINGS.
CONTACT: BENJAMIN HINKLE
PH: 717-719-3764

C-4: ACOUSTICAL CEILING TILE
MFGR: ARMSTRONG
PRODUCT: CIRRUS HIGH-NRC
ITEM #: # 556
SIZE: 24" X 24" X 7/8"
COLOR: TECH BLACK (BL)
EDGE: ANGLED TEGULAR
GRID: 15/16" PRELUDE / COLOR: BLACK
CONTACT: BENJAMIN HINKLE
PH: 717-719-3764

C-5: ACOUSTICAL CANOPY W/ INTEGRATED LIGHTING
MFGR: AXIS
PRODUCT: STENCIL SOFTZONE - HEXAGON (FULL)
ITEM #: +HE2
SIZE: 24' X 48" X 1"
INFILL COLOR(S): #1: CARBON (CAR)
#2: CONCRETE (CON)
#3: MAROON (CUSMAN)
OPTICS: BLANK (-), DIRECT LENS (SO), & INDIRECT (-)
NOTE: REFERENCE RCP & ELECTRICAL DRAWINGS
CONTACT: ---
PH:

C-6: DIRECT-ATTACH ACT - (.60 NRC)
MFGR: ARMSTRONG
PRODUCT: TECTUM DIRECT-ATTACH HIGH NRC
ITEM #: 5338WZL04T10TWH
SIZE: 24" X 48" X 1"
EDGE: LONG EDGES BEVELED / SHORT EDGES SQUARE
MOUNTING: D-20
COLOR: WHITE
CONTACT: BENJAMIN HINKLE
PH: 717-719-3764

NOTE: CEILING PAINTS ARE REFERENCED FROM THE LIST OF WALL PAINTS AT LEFT

C-X: ACOUSTICAL CEILING TILE
MFGR: ARMSTRONG
STYLE: CERAMAGUARD FINE FISSURED
ITEM: # 607 (0.55 NRC / 38 CAC)
EDGE: SQUARE LAY-IN 15/16
SIZE: 2' x 2' X 5/8"
COLOR: WHITE (WH)
GRID: PRELUDE PLUS XL ALUMINUM 15/16" EXPOSED TEE / COLOR: WHITE ALUMINUM (WA)
CONTACT: BENJAMIN HINKLE
PH: 717-719-3764

DOORS:

D-1: PRE-FINISHED WOOD
MFGR: VT INDUSTRIES (or EQUAL)
SPECIES: NATURAL BIRCH
STAIN: # AL18 - "ALPINE"
CONTACT: DOUG BACHAND
Cell: 919-452-3716

D-2: ALUMINUM GLAZED
STYLE: PER ARCH. SPECIFICATION
COLOR: TO BE SELECTED FR. MANF. STANDARD COLORS
NOTE: NO FIELD-FINISHING REQUIRED.

FRAMES:

FR-1: PAINTED H.M.
MFGR: SHERWIN WILLIAMS
COLOR: # SW 6258 "TRICORN BLACK"

FR-2: ALUMINUM
STYLE: PER ARCH. SPECIFICATION
COLOR: TO BE SELECTED FR. MANF. STANDARD COLORS
NOTE: NO FIELD-FINISHING REQUIRED.

NOTE: UTILIZE INDUSTRIAL PAINT SYSTEM SUITABLE FOR BOTH NEW AND PREVIOUSLY PAINTED HM FRAMES

MILLWORK:

PL-1: PLASTIC LAMINATE
MFGR: -
DISTR'B: -
COLOR: -
FINISH: -
CONTACT: -
PH: -

PL-2: PLASTIC LAMINATE
MFGR: -
DISTR'B: -
COLOR: -
FINISH: -
CONTACT: -
PH: -

PL-3: PLASTIC LAMINATE
MFGR: FORMICA
COLOR: #M3091 - "CRYSTAL WHITE MAGNETIC MARKERBOARD"
FINISH: #90 - GLOSS

PL-4: PLASTIC LAMINATE
MFGR: WILSONART
COLOR: #5013 - "MUSHROOM"
FINISH: #19 - "LENO WEAVE w/ AEON SCRATCH-RESISTANCE TECH."

SOL-1: SOLID SURFACE
MFGR: MEGANITE
DISTR'B: RICHELIEU
SERIES: STONE
COLOR: # 519SA - "RAIN CLOUD"
FINISH: SEMI-GLOSS
CONTACT: TIM KENNY
PH: 732-710-7820

SOL-2: SOLID SURFACE
MFGR: MEGANITE
DISTR'B: RICHELIEU
SERIES: VIVID
COLOR: # 088A - "FIRE"
FINISH: MATTE
CONTACT: TIM KENNY
PH: 732-710-7820

BBK-1: BUTCHER BLOCK COUNTERTOP
SPECIES: MAPLE
STAIN: CLEAR / NATURAL
FINISH: SATIN / ANTIMICROBIAL
THICKNESS: 2" (NOMINAL)

SS-1: STAINLESS STEEL COUNTERTOP
MFGR: -
DISTR'B: -
STYLE: -
COLOR: -
SHEET SIZE: -
CONTACT: -
PH: -

MISCELLANEOUS:

WS-1: MANUAL SOLAR SHADE
MFGR: MECHO SHADE
SYSTEM: -
MOUNT: -
STYLE: THERMOVEIL 1500 SERIES
OPENNESS: 3%
COLOR: #1520 "SHADOW GREY"
CONTACT: DOUGLAS MCCOY
PH: 267-889-3948

WS-2: AUTOMATED PRIVACY SHADE
MFGR: MECHO SHADE
SYSTEM: -
MOUNT: -
STYLE: THERMOVEIL 1500 SERIES
OPENNESS: 3%
COLOR: #1520 "SHADOW GREY"
CONTACT: DOUGLAS MCCOY
PH: 267-889-3948

DF-1: DECORATIVE WINDOW FILM
MFGR: TAKEFORM
STYLE: AMPLIFY / SELF-ADHESIVE
PRODUCT #: TBD
FLAMMABILITY: SELF-EXTINGUISHING
NOTE: SEE INTERIOR ELEVATIONS
CONTACT: PH: 800-528-1398

TACK-1: TACK PANEL FABRIC
MFGR: TBD
SYSTEM: -
MOUNT: -
STYLE: THERMOVEIL 1500 SERIES
OPENNESS: 3%
COLOR: #1520 "SHADOW GREY"
CONTACT: -
PH: -

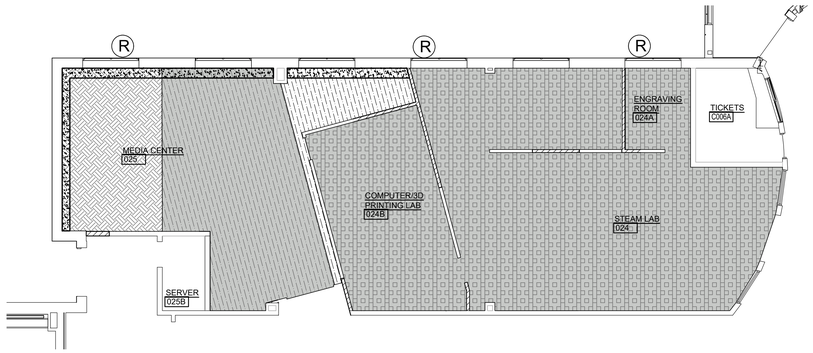
DIMENSIONAL LETTERS & LOGOS:
MFGR: TAKEFORM
STYLE: ETHOS
COLOR(S): #1: XXX @
#2 : XXX @
#3: XXX @
MOUNTING: TBD
NOTE: RBG HALO LIGHTING TO BE INCLD. SEE INTERIOR ELEVATIONS
CONTACT: PH: 800-528-1398

PVC EDGE SCHEDULE	
LAMINATE DESIGNATIONS	DOELLKEN WOODTAPE PVC COLOR
PL-1	#- "TBD"
PL-2	#- "TBD"
PL-3	#- "TBD"

NOTES:
1. ALL DOORS, DRAWERS, AND COUNTERTOPS & ADJUSTABLE SHELVES THAT RECEIVE PL. LAM. FINISH SHALL RECEIVE 3mm PVC EDGES.
2. ALL CABINETS FRAMES THAT RECEIVE PL. LAM. FINISH SHALL RECEIVE 3mm PVC EDGES.
3. EDGEBANDING FOR PL-1 LAMINATE IS NOT TYPICALLY STOCKED - ALLOW FOR LONGER LEAD TIME.

INTERIOR FINISHES NOTES:

1. REFERENCE PARTIAL FLOOR FINISH PLANS @ SHEET A-702 FOR EXTENTS, LAYOUT & PATTERNING OF FLOOR FINISHES.
2. INSTALL MODULAR CARPET TILE (F-1 / ALL STYLES) AT MEDIA CENTER & SERVER. PROVIDE FOR AN ADA-COMPLIANT FLOOR TRANSITIONS BETWEEN DIFFERING FLOOR FINISHES AT THRESHOLDS (ONLY).
3. INSTALL ELECTRO-STATIC DISSIPATIVE TILE (F-3) AT I.T. CENTER AND ADJACENT SPACES AS LISTED IN THE ROOM FINISH SCHEDULE. FLOOR TILE SHALL BE INSTALLED W/ SPECIAL ADHESIVE AND COOPER GROUNDING STRIPS PER MANUFACTURER'S RECOMMENDED INSTALLATION METHODS. COORDINATE W/ ELECTRICAL DRAWINGS AS REQUIRED.
4. INSTALL DECORATIVE FLAKE BROADCAST FLOOR SYSTEM (F-4 / COLOR 1) AT STEAM LAB, ENGRAVING ROOM, & 3D PRINTING ROOM, AND INSTALL (F-4 / COLOR 2) AT AG LAB, ANIMAL ROOM, AND WELDING ROOM. PLEASE NOTE THAT THE DESIRED APPEARANCE SHALL BE "FULL COVERAGE" - THE PIGMENTED BASE COAT SHALL COVERED IN ITS ENTIRETY UPON INSTALLATION OF THE BROADCAST FLAKES. PROVIDE FOR A SLIP-RESISTANT TOP COAT FINISH. REFERENCE FINISH LEGEND FOR CUSTOM BLEND COLORS.
5. INSTALL INSTALL RUBBER BASE (B-1) AT ALL AREAS INDICATED AT FINISH SCHEDULE. RUBBER BASE STYLES MAY DIFFER BASED ON THE FLOOR FINISH TYPE AT WHICH IT OCCURS. HEIGHT = 4"H (TYPICAL).
6. ALL FINISHES WITHIN TICKETS C006A SHALL BE EXISTING TO REMAIN.
7. PROVIDE & INSTALL SUPER GRAPHIC WALLCOVERING (WC-1) AT ENTIRETY OF "SOUTH" & "WEST" WALLS WITHIN STEAM LAB. ALL OTHER WALLS WITHIN SPACE SHALL BE PAINTED P-X "COLOR TBD".
8. EXISTING WALL PAINT TO REMAIN AT WALLS @ CORRIDOR XXX. PATCH & MATCH PAINT (P-EX) TO MATCH EXISTING WALL PAINT PATTERN. TRANSITION PAINT AT AN INSIDE OR OUTSIDE CORNER (ONLY).
9. PAINT EXISTING PLASTER-PORTION OF CEILINGS BEING EFFECTED BY DEMOLITION, CONSTRUCTION / RENOVATION AND MEP WORK: P-EX (TO MATCH EXISTING CONDITIONS), TYPICAL,
10. REFERENCE REFLECTED CEILING PLANS FOR HEIGHTS, EXTENTS, & LAYOUTS / CONFIGURATIONS OF CEILING FINISHES.
11. INSTALL NEW PERFORATED METAL CEILING TILE & GRID (C-3) @ STEAM LAB. EXPOSED CEILING ABOVE METAL PERFORATED TILES SHALL BE VISIBLE, THEREFORE, PAINT ENTIRE EXPOSED CEILING ABOVE CEILING (C-3): P-3 "REAL RED", INCLUDING STRUCTURAL STEEL, EXPOSED DUCTWORK, CONDUIT, PIPING, MISCELLANEOUS METALS, HANGERS AND SUPPORTS. ALSO NOTE THE FOLLOWING:
    - CEILING PANELS HAVE A (4) TILE PATTERN CONFIGURATION (A, B, C, D). SEE RCP FOR LAYOUT SEQUENCE.
    - CEILING TILES HAVE A THICKNESS THAT PROJECT DOWN FROM CEILING GRID - CEILING SHALL BE AT 10'-0" A.F.F. TO THE BOTTOM FACE OF THE CEILING TILE (NOT THE GRID).
    - PAINT SHALL BE DRY FALL, UNLESS OTHERWISE NOTED - SEE GENERAL NOTES.
    - COORDINATE W/ ELECTRICAL DRAWINGS FOR INTEGRAL "IN-LINE" LIGHT FIXTURE LAYOUT.
12. INSTALL NEW DECORATIVE ACOUSTICAL CEILING TILE & GRID (C-3) @ MEDIA CENTER. PATTERN CONSISTS OF "TRAPEZOID" AND "TRIANGLE" SHAPED CEILING TILES - REFERENCE REFLECTED CEILING PLAN FOR CONFIGURATIONS & PATTERN REPEAT, AND ALSO NOTE THE FOLLOWING:
    - "TRAPEZOID" AND "TRIANGLE" SHAPED LIGHT FIXTURES & DIFFUSERS SHALL BE INSTALLED WITH THIS CEILING TYPE (ONLY) - REFERENCE MECHANICAL & ELECTRICAL DRAWINGS.
13. PAINT ENTIRE EXPOSED CEILING ABOVE AG LAB & WELDING ROOM: P-X "COLOR TBD", INCLUDING STRUCTURAL STEEL, EXPOSED DUCTWORK, CONDUIT, PIPING, MISCELLANEOUS METALS, HANGERS AND SUPPORTS.
14. INSTALL NEW ACOUSTICAL CANOPY CEILING (C-5) THROUGHOUT AG LAB, AND NOTE THE FOLLOWING:
    - CANOPY CEILING IS CONSISTS OF "BLANK" SECTIONS AND SECTIONS TO RECEIVE ACOUSTICAL INFILL PANELS - REFERENCE REFLECTED CEILING PLAN FOR CONFIGURATIONS, ACOUSTICAL INFILL PANEL COLOR(S), AND PATTERN LAYOUT.
    - NEW CORD REELS ARE SUSPENDED FROM THE EXISTING EXPOSED CEILING AND ARE INTENDED TO HANG BETWEEN THE "BLANK" SECTIONS OF THE CANOPY - COORDINATE LAYOUT W/ ELECTRICAL DRAWINGS.
    - INTEGRATED LIGHT FIXTURE LAYOUT CONSISTS OF A COMBINATION OF BLANK (-), DIRECT (SO), AND INDIRECT (-) SEGMENTS - REFERENCE ELECTRICAL DRAWINGS FOR LIGHTING CONFIGURATIONS.
15. INSTALL NEW DIRECT-ATTACHED CEILING PANELS (C-6) AT AVAILABLE DECK SPACE OF EXPOSED CEILING @ AG LAB AND WELDING ROOM, AND NOTE THE FOLLOWING:
    - NEW PANELS TO COVER AT LEAST 75% OF THE CEILING.
    - PANELS SHALL BE AFFIXED TO THE EXISTING CEILING DECK WITH 4" MINIMUM CLEARANCE BETWEEN THE CEILING AND BACK-SIDE OF THE PANEL TO ACHIEVE AN ACOUSTICAL RATING OF XX NRC - SEE MANUFACTURER'S RECOMMENDING MOUNTING METHODS FOR ADDITIONAL INSTALLATION REQUIREMENTS.
    - PANELS SHALL BE COORDINATED WITH LIGHTING, DUCTWORK, CONDUIT, PIPING, ETC. LOCATED IN THE CEILING. DIMENSIONS TO BE V.I.F. WITH EXISTING FRAMING.
    - INSTALL PANELS UPON COMPLETION OF PAINTING EXPOSED CEILING.
16. PAINT ALL FACES OF NEW AND EXISTING GYPSUM SOFFITS AND BULKHEADS: P-EX (TO MATCH EXISTING), TYPICAL UNLESS OTHERWISE NOTED.
17. NEW PRE-FINISHED WOOD DOOR (D-1) SPECIES & STAIN COLOR ARE INTENDED TO MATCH EXISTING WOOD DOORS. ARCHITECT SHALL VERIFY SPECIES AND STAIN COLOR DURING SHOP DRAWING REVIEW.
18. HM DOOR FRAMES WITHIN RENOVATION AREA SHALL BE PAINTED IN THEIR ENTIRETY INCLUDING NEW HM FRAMES, EXISTING HM FRAMES RECEIVING NEW DOORS AND EXISTING HM FRAMES OCCURRING AT WALLS RECEIVING NEW FINISHES. REMAINING FRAMES (OCCURRING IN WALLS WITH EXISTING FINISHES TO REMAIN) MAY ALSO BE "EXIST'G TO REMAIN", HOWEVER TOUCH UP OF EXISTING COLOR MAY BE REQUIRED. FRAME COLOR FOR FULLY PAINTED FRAMES SHALL BE AS NOTED AT THE FINISH SCHEDULE. EXISTING TO REMAIN SHALL BE P-EX TO MATCH EXISTING.
19. PAINT NEW HM DOOR FRAMES: P-2 "TRICORN BLACK", UNLESS OTHERWISE NOTED.
20. PATCH & MATCH SHALL BE REQUIRED @ FLOOR, BASE & WALL FINISHES AT EXISTING CORRIDOR WHERE NEW DOOR IS BEING ADDED FOR MEDIA CENTER. REFERENCE DEMO PLANS & FLOOR PLANS TO REVIEW CONDITIONS.
21. PROVIDE & INSTALL NEW SOLID SURFACE SILLS (SOL-1) AT TOP OF LOW WALLS AT STEAM LAB. ALL EXPOSED EDGES SHALL BE EASED AND POLISHED. CAULKED SEAMS/EDGES SHALL BE COLOR-MATCHED TO SOLID SURFACE MATERIAL.
22. PROVIDE & INSTALL SOLID SURFACE SURROUND (SOL-2) AT NEW DISPLAY CASE, BOTH SIDES WITHIN STEAM LAB AND AT EXISTING CORRIDOR. REFERENCE PLAN AND SECTION DETAILS @ SHEET A-XXX. ALL EXPOSED EDGES SHALL BE EASED AND POLISHED. CAULKED SEAMS/EDGES SHALL BE COLOR-MATCHED TO SOLID SURFACE MATERIAL. FINAL FINISH SHALL BE A "MATTE" SHEEN (TYPICAL).
23. NEW ELECTRICAL / DATA DEVICES, RECEPTACLES & ASSOCIATED COVERS SHALL BE THE FOLLOWING COLORS:
    - DEVICES WHICH OCCUR AT MAROON OR DARK-COLORED WALL FINISHES / SURFACES = BLACK.
    - DEVICES WHICH OCCUR AT WHITE, GREY, OR LIGHT-COLORED WALL FINISHES / SURFACES = WHITE.
      - COLORS AND FINISHES SHALL BE CONFIRMED DURING SHOP DRAWING REVIEW.
21. INSTALL STAINLESS STEEL CORNER GUARDS AT OUTSIDE

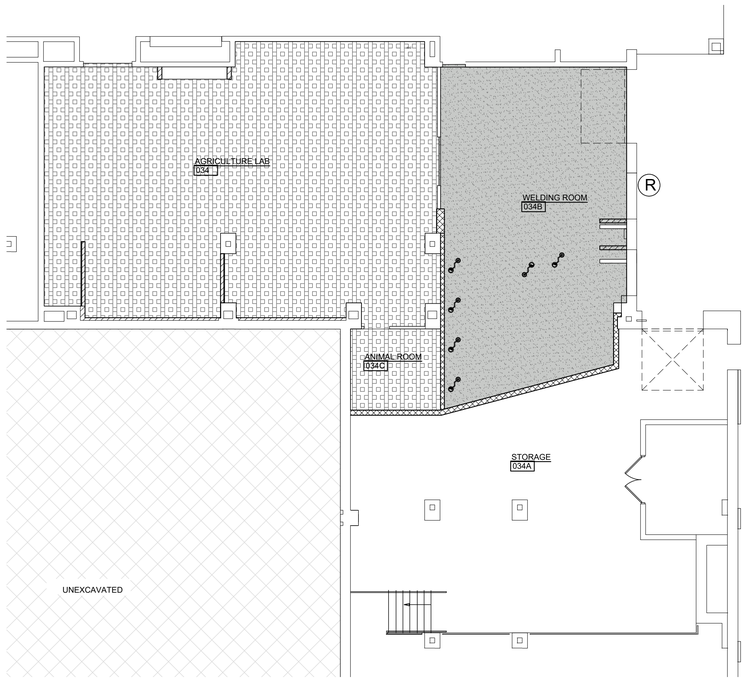


1 A-702 LEARNING COMMONS FLOOR FINISH PLAN

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

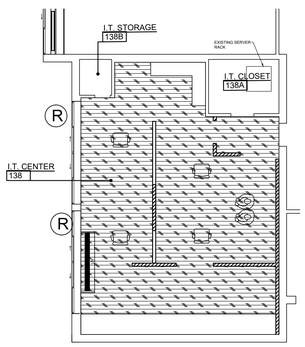
FLOORING LEGEND:

- F-X: MODULAR CARPET PLANK
  STYLE: ---
  COLOR #1: "XXX"
- F-X: MODULAR CARPET PLANK
  STYLE: ---
  COLOR #2: "XXX"
- F-X: MODULAR CARPET TILE
  STYLE: ---
  COLOR #3: "XXX"
- F-X: DECORATIVE FLAKE
  STYLE: ---
  COLOR #3: "XXX"



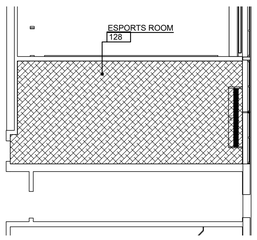
2 A-702 CTE / AGRICULTURE LAB FINISH PLAN

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



3 A-702 I.T. CENTER FINISH PLAN

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



4 A-702 ESPORTS FINISH PLAN

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

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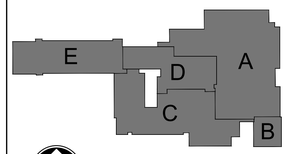

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

FINISH PLANS

DRAWN BY:	CHECKED BY:
A.L. / E.V.	D.G.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

A-702

CAD FILE: 5005-A-702.DWG PLOT DATE: 11/10/2025

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GENERAL NOTES:

1. THESE GENERAL NOTES SHALL APPLY TO ALL M SERIES DRAWINGS, IN COORDINATION WITH DIVISION 23 SECTIONS, AND FRONT END (DIVISION 0 AND 1) REQUIREMENTS. ALL WORK ASSOCIATED WITH THE M SERIES DRAWINGS SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID CONFLICTS.

2. ALL WORK SHALL BE PERFORMED IN COOPERATION WITH THE OWNER (AND/OR OWNER'S REPRESENTATIVE) AND THE ARCHITECT/ENGINEER THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE CONSTRUCTION SCHEDULE ESTABLISHED BY THE OWNER AND ARCHITECT, AND SHALL IMMEDIATELY REPORT ANY DELAYS IN MATERIALS RECEIPT INCLUDING CIRCUMSTANCES CAUSING DELAYS.

3. CONTRACT DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND TO INDICATE THE GENERAL ARRANGEMENT AND APPROXIMATE LOCATION OF EQUIPMENT, DUCTWORK, PIPING, AND ACCESSORIES. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL CONDITIONS, DIMENSIONS, AND LOCATIONS PRIOR TO BIDDING PROJECT. CHECK PROJECT DRAWINGS PRIOR TO INSTALLATION FOR INTERFERENCES WITH OTHER TRADES. SHOULD THE CONTRACTOR FIND SUCH INTERFERENCES, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH OTHERS. THE OWNER RESERVES THE RIGHT TO MAKE REASONABLE CHANGES PRIOR TO ROUGH-IN WITHOUT ADDED EXPENSE. DIMENSIONS INDICATED ARE SUBJECT TO VERIFICATION OF EXACT SITE CONDITIONS AT THE TIME OF INSTALLATION.
   - THE CONTRACTOR SHALL INSTALL ALL DUCTWORK, PIPING, EQUIPMENT, ETC. IN A WORKMAN LIKE MANNER WITH QUALIFIED CONTRACTORS.

4. ALL MECHANICAL WORK SHALL BE INSTALLED PER LOCAL MECHANICAL CODE, HEALTH CODE, FIRE CODE, ENERGY CONSERVATION CODE, AND BUILDING CODE. ALL WORK SHALL COMPLY TO ACCORDANCE OF LOCAL, STATE AND FEDERAL REGULATIONS AND OTHER AUTHORITIES HAVING JURISDICTION.

5. CONTRACTOR RESPONSIBLE FOR PAYING FOR ALL FEES ASSOCIATED WITH OBTAINING PERMITS, INSPECTIONS, ETC.

6. THE MECHANICAL CONTRACTOR SHALL BE LICENSED IN THE LOCAL JURISDICTION PRIOR TO BIDDING ON PROJECT. CONTRACTOR TO CONTACT CITY/TOWNSHIP TO VERIFY LICENSE TO ENSURE THEY ARE CURRENT.

7. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. ANY CONFLICTS WITH INSTALLATION AND MANUFACTURER RECOMMENDATIONS SHALL BE REPORTED TO ENGINEER.

8. CUTTING AND PATCHING - ALL NOTES BELOW HOLD THE COMMON CONDITION "UNLESS OTHERWISE NOTED".
   - FOR RENOVATIONS: THE CONTRACTOR REQUIRING CUTTING SHALL BE RESPONSIBLE FOR HIS/HER OWN WORK WHETHER DESCRIBED IN THE CONTRACT DOCUMENTS OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CUTTING AND PATCHING REQUIREMENTS WITH OTHER TRADES.
   - FOR NEW CONSTRUCTION: ALL CUTTING AND PATCHING THROUGH ALL WALL, CEILING, ETC. SHALL BE PROVIDED BY MECHANICAL CONTRACTOR IN COORDINATION WITH THE GENERAL WORK. ALL PAINTING AND FINISHING SHALL BE DONE BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH GENERAL CONTRACTOR.
   - OPENINGS MADE POST-FINISH: IF AN OPENING IS REQUIRED IN A FINISHED SURFACE, AFTER COMPLETION, DUE TO LACK OF COORDINATION OR PROPER SCHEDULE MAINTENANCE, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CUTTING AND PATCHING REQUIRED TO FINISH SPECIFIC MECHANICAL WORK AND RESTORE THE FINISHED SURFACE TO PREVIOUS CONDITION.
   - UNDERGROUND PIPING (NEW CONSTRUCTION): TRENCHING SHALL BE BY GENERAL CONTRACTOR. PIPE INSTALLATION WITH APPROPRIATE BEDDING MATERIAL SHALL BE BY THE MECHANICAL CONTRACTOR. BACKFILL ABOVE PIPE AND BEDDING SHALL BE BY THE GENERAL CONTRACTOR BASED ON REQUIREMENTS OF THE STRUCTURAL PLANS AND SPECFICATIONS.
   - UNDERGROUND PIPING FINISHED FLOORS OTHER THAN CONCRETE: UNLESS OTHERWISE NOTED, TRENCHING, EXCAVATION, BACKFILLING, COMPACTION AND RESTORATION OF THE FLOORING SUBSTRATE SHALL BE PERFORMED BY THIS CONTRACTOR. FINAL FINISHED FLOOR SHALL BE BY OTHERS.
   - UNDERGROUND PIPING FOR FINISHED CONCRETE FLOORS: UNLESS OTHERWISE NOTES, TRENCHING, EXCAVATION, BACKFILLING, COMPACTION, AND RESTORATION OF FINISHED FLOORING SYSTEM SHALL BE PERFORMED BY THIS CONTRACTOR.
   - EQUIPMENT OPENINGS: OPENINGS REQUIRED FOR REMOVAL OF EXISTING EQUIPMENT OR INSTALLATION OF NEW EQUIPMENT SUPPLIED UNDER THIS CONTRACT SHALL BE CUT AND PATCHED BY THIS CONTRACTOR.

9. FURNISH AND INSTALL ALL NEW EQUIPMENT AND MATERIALS AS DESCRIBED HEREIN. ANY MATERIAL, OPERATION, METHOD, OR DEVICE MENTIONED, LISTED OR NOTED WITHIN THIS SPECIFICATION SHALL BE FURNISHED BY THIS CONTRACTOR UNLESS SPECIFICALLY MENTIONED AS BEING FURNISHED OR INSTALLED BY OTHERS.

10. ALL PIPING AND DUCT PENETRATING ALL FIRE-RATED WALLS, CEILINGS, FLOORS, ROOFS, ETC. SHALL BE FIRE STOPPED IN ACCORDANCE WITH DIVISION 7.

11. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE COMPLETE AND OPERABLE SYSTEMS, INCLUDING OPERATIONAL PROPERTIES TO THE EXTENT NECESSARY TO LINK MULTIPLE COMPONENTS OF THE SYSTEMS TOGETHER AND TO INTERFACE WITH SYSTEMS PROVIDED BY OTHERS. THE MECHANICAL CONTRACTOR SHALL GUARANTEE ALL SYSTEMS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THE CONTRACTOR SHALL PROVIDE OWNER WITH ALL NECESSARY OPERATION AND MAINTENANCE MANUALS, SHOP DRAWINGS, WIRING DIAGRAMS, AS-BUILT DRAWINGS, AND WARRANTY PAPERWORK UPON COMPLETION OF THE PROJECT.

12. THE CONTRACTOR SHALL COORDINATE WITH G.C. FOR LOCATIONS OF ACCESS PANELS PROVIDED BY G.C. IN NON-ACCESSIBLE CEILING AND WALLS FOR ALL VALVES, SHOCK ABSORBERS, VOLUME DAMPERS AND ALL OTHER ITEMS THAT REQUIRE ACCESS TO PROPERLY MAINTAIN OR SERVICE.

13. ALL PIPING PENETRATIONS THROUGH EXPOSED WALLS SHALL BE PROVIDED WITH CHROME ESCUTCHEONS AND SEAL TO WALL OR CEILING.

14. ALL NATURAL GAS PIPING SHALL BE INSTALL PER NEW YORK FUEL GAS CODE AND AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL PROVIDE SHUT OFF GAS VALVE FOR ALL EQUIPMENT UTILIZING GAS. CONTRACTOR SHALL PROVIDE 6" DIRT LEG (MINIMUM) FOR ALL EQUIPMENT UTILIZING GAS.

15. EQUIPMENT CONNECTIONS:
   - ALL EQUIPMENT SHALL BE PROVIDED WITH UNIONS AND SHUT-OFF VALVES WHETHER DETAILED OR NOT.
   - ALL MECHANICAL HYDRONIC OR REFRIGERANT EQUIPMENT SHALL BE PROVIDED WITH SHUT OFF VALVES.
   - THIS CONTRACTOR SHALL MAKE FINAL HYDRONIC AND REFRIGERANT CONNECTIONS TO PIPING/EQUIPMENT FURNISHED BY OTHERS, UNLESS OTHERWISE NOTED.

17. ALL PENETRATIONS THROUGH ROOFING MEMBRANE AND ROOF DECKING SHALL BE PERFORMED BY AN INSTALLER CERTIFIED BY THE ROOFING SYSTEM MANUFACTURER TO MAINTAIN ROOF SYSTEM WARRANTY.

18. FOR PROJECTS WITH APPROVED USE OF PVC AND CPVC PIPING, SUCH PIPING SHALL BE PROHIBITED IN THE FOLLOWING LOCATIONS.
   - AREAS OF ASSEMBLY.
   - RETURN AIR PLENUMS.
   - EXIT DISCHARGE CORRIDORS.
   - STAIRS.

19. RODENTPROOFING - IN OR ON STRUCTURES WHERE OPENINGS HAVE BEEN MADE IN FLOORS CEILINGS, OR WALLS FOR THE PASSAGE OF DUCT OR PIPE, SUCH OPENINGS SHALL BE CLOSED AND PROTECTED WITH APPROVED METAL COLLARS THAT ARE SECURELY FASTENED TO THE ADJOINING STRUCTURE.

20. STRUCTURAL SAFETY - IN THE PROCESS OF INSTALLING OR REPAIRING ANY PART OF A MECHANICAL SYSTEM, THE FINISHED FLOOR, WALLS, CEILINGS, TILE OR ANY OTHER PART OF THE BUILDING OR PREMISES THAT MUST BE CHANGED OR REPLACED SHALL REMAIN IN A STRUCTURALLY SAFE CONDITION IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE OF NEW YORK STATE.

21. PROTECTION OF DUCTS, PIPES AND MECHANICAL SYSTEM COMPONENTS - PIPING, DUCT AND OTHER SYSTEM COMPONENTS SHALL BE INSTALLED IN SUCH A MANNER SO AS TO PREVENT CORROSION, BREAKAGE, FREEZING, AND PHYSICAL DAMAGE BY OTHER BUILDING COMPONENTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE OF NEW YORK STATE.

22. EXISTING SITE UTILITIES - UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED, NOR IS THERE ANY GUARANTEE THAT ALL EXISTING UTILITIES, WHETHER FUNCTIONAL OR ABANDONED, WITHIN THE PROJECT AREA ARE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL DAMAGES RESULTING FROM THE CONTRACTOR'S WORK. CONTRACTOR SHALL CONTACT DIG SAFELY NEW YORK (DSNY) - 800-962-7962 FOR STAKEOUT REQUESTS.

23. COORDINATE ALL EQUIPMENT & DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS.

24. COORDINATE ALL PENETRATIONS THROUGH EXTERIOR WALLS WITH ARCHITECTURAL DRAWINGS.

25. THE CONTRACTOR SHALL CHECK AND VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE BEFORE PROCEEDING WITH THE WORK. HE SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER FOR CORRECTION PRIOR TO BEGINNING ANY WORK. DISCOVERY OF ANY DISCREPANCIES AFTER WORK HAS COMMENCED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

26. ALL EQUIPMENT-HVAC CONTRACTOR MUST REVIEW THE EQUIPMENT SCHEDULES, SPECIFICATIONS, AND DRAWINGS IN ALL CONTRACT DOCUMENTS AND SUBSEQUENT SHOP DRAWINGS. ALL LABOR AND MATERIALS FOR A COMPLETE AND OPERABLE SYSTEM AS PART OF THE CONTRACT. FAILURE TO REVIEW DOES NOT RELIEVE THE CONTRACTOR OF FULFILLING CONTRACTUAL OBLIGATIONS.

27. REFER TO ARCHITECTURAL DRAWINGS AND SHOP DRAWINGS FOR FINAL CONNECTIONS AND EXACT LOCATIONS FOR ALL WORK REQUIRED FOR EQUIPMENT NOT FURNISHED UNDER THIS CONTRACT.

28. COORDINATE INSTALLATION OF NEW WORK WITH ARCHITECTURAL, STRUCTURAL, PLUMBING, POWER AND LIGHTING PLANS. CONTRACTOR SHALL TAKE ALL INTERFERENCE INTO CONSIDERATION. PROVIDE ALL NECESSARY OFFSETS OR TRANSITIONS WITH EQUIVALENT AREAS TO MATCH DUCT SIZES AS INDICATED ON DRAWINGS.

29. DO NOT INSTALL ANY MECHANICAL WORK ABOVE ELECTRICAL PANELS.

30. DO NOT INSTALL ANY MECHANICAL WORK ABOVE OR THROUGH ELEVATOR EQUIPMENT ROOM UNLESS SPECIFICALLY SERVING EQUIPMENT ROOM.

31. FOR ALL BRANCH DUCT CONNECTIONS TO MAIN TRUNK, PROVIDE 45° TRANSITION FITTING OR CONICAL TAP FOR ROUND DUCT. BUTT FITTINGS ARE NOT PERMITTED. PROVIDE MANUAL VOLUME DAMPER WITH LOCKING QUADRANT AN ALL BRANCH RUNOUTS TO GRILLES AND DIFFUSERS.

32. PROVIDE TURNING VANES IN ALL MITERED ELBOWS OR PROVIDE ELBOWS WITH CENTERLINE RADIUS EQUAL TO 1.5 TIMES DUCT WIDTH.

33. INSTALL ALL FIRE DAMPERS AND CEILING RADIATION DAMPERS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION. PROVIDE UL FIRE DAMPERS WITH BLADES OUT OF AIR STREAM AND ACCESS DOORS. FIRE DAMPERS IN TRANSFER DUCTS ONLY MAY HAVE BLADES IN AIR STREAM.

34. SLEEVE AND SEAL ALL PIPE OR DUCT PENETRATIONS OF WALL AND FLOORS. PACK VOID BETWEEN PIPE OR DUCT AND SLEEVE WITH INSULATION IN NON-RATED WALLS AND FLOORS. PACK VOID BETWEEN PIPE OR DUCT AND SLEEVE WITH INSULATION IN FIRE-RATED WALLS AND FLOORS, APPLY INTUMESCENT FIRE SAFING COMPOUND AT PENETRATION, MAINTAINING INTEGRITY AND RATING OF FIRE SEPARATION. SLEEVES THROUGH FLOORS SHALL EXTEND 2" ABOVE FLOOR AND BE GROUTED INTO PLACE AND WATERPROOFED. PIPING THROUGH EXTERIOR WALLS SHALL BE SLEEVED AND SEALED WEATHER TIGHT.

35. SHUTDOWN OF SERVICES SHALL BE COORDINATED AND SCHEDULED WITH THE OWNER.

36. THE HVAC CONTRACTOR SHALL DISCONNECT AND CAP ALL SUPPLY, RETURN, AND EXHAUST AIR OUTLETS THAT ARE STILL ACTIVE IN THE PROJECT AREA DURING CONSTRUCTION.

37. THE HVAC CONTRACTOR SHALL REFER TO THE PHASING PLAN TO DETERMINE THE EXTENT OF WORK AND TEMPORARY SYSTEM CONNECTIONS NECESSARY FOR EACH PHASE.

38. ALL DUCT AND UNIT MOUNTED SMOKE DETECTORS FOR MECHANICAL EQUIPMENT AND DAMPERS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR, WIRED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR, WITH UNIT SHUTDOWN CONTROL WIRING BY THE MECHANICAL CONTRACTOR.

39. HVAC CONTRACTOR SHALL PROVIDE ALL TRANSFORMERS AS REQUIRED FOR DUCT-MOUNTED DAMPER ACTUATORS OR THE DDC CONTROLS SYSTEM.

40. ALL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER SO THAT DISRUPTION OF AREAS INVOLVED IS KEPT TO A MINIMUM. ANY ACCIDENTAL INTERRUPTIONS TO SERVICES SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR WITH OUT ANY ADDITIONAL COST TO THE OWNER.

41. PRIOR TO SUBMITTING BIDS AND DURING CONSTRUCTION, THE CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES AND COORDINATE THE INSTALLATION WITH ALL TRADES AND EXISTING CONDITIONS. COORDINATION OF WORK IF NECESSARY SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

42. THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL OFFSETS, BENDS, ACCESS PANELS AND SIMILAR PARTS WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING HIS WORK AND PROVIDE ALL FITTINGS, ACCESS PANELS, AND SIMILAR ACCESSORIES THAT MAYBE REQUIRED TO PROVIDE A COMPLETE AND OPERATING INSTALLATION AT NO ADDITIONAL COST TO THE OWNER.

43. PROVIDE ALL DAMPERS, SHEAVES, AND BELTS AS REQUIRED FOR BALANCING.

44. THE HVAC CONTRACTOR SHALL CENTER AND/OR ALIGN REGISTERS, DIFFUSERS, AND EQUIPMENT WITH ADJACENT ARCHITECTURAL FEATURES.

45. INSTALL FIRE DAMPERS AS REQUIRED PER NFPA 101 AND NFPA 90A.

46. ALL HVAC INSTALLATIONS SHALL COMPLY WITH NFPA 101.

47. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING, AND FIRE PROTECTION) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.

48. PROVIDE INTERNAL VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT, PIPING AND DUCTWORK AS SPECIFIED TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.

49. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.

50. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.

51. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENT BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.

52. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.

53. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 16 OF THE SPECIFICATION.

54. WHEN MECHANICAL WORK (HVAC, PLUMBING, SHEET METAL, FIRE PROTECTION, ETC.) IS SUBCONTRACTED, IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUBCONTRACTORS AND THE ASSOCIATED CONTRACTS. WHEN DISCREPANCIES ARISE PERTAINING TO WHICH CONTRACTOR PROVIDES A PARTICULAR ITEM OF THE MECHANICAL CONTRACT OR WHICH CONTRACT PROVIDES FINAL CONNECTIONS FOR A PARTICULAR ITEM OF THE MECHANICAL CONTRACT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE MECHANICAL CONTRACTOR, WHOSE DECISION SHALL BE FINAL.

55. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE RESPECTIVE CONTRACTOR.

56. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION. DUCT ACCESS PANELS INSTALLED BY HVAC CONTRACTOR.

57. ALL DUCTWORK, PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH GENERAL CONTRACTOR. ALL ATTACHMENTS TO STEEL BAR JOISTS, TRUSSES, OR JOIST GIRDERS SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.

58. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.

59. ALL ROOF MOUNTED EQUIPMENT CURBS FOR EQUIPMENT PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.

60. LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.

61. REFER TO TYPICAL DETAILS FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION.

62. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE HVAC SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

63. CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED ON THE CONTRACT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS.

64. UNLESS OTHERWISE SHOWN, LOCATE ALL ROOM THERMOSTATS 44" (CENTERLINE) ABOVE FINISHED FLOOR. NOTIFY THE ENGINEER OF ANY ROOMS WHERE THE ABOVE LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION. COORDINATE INSTALLATION WITH OTHER SENSORS AND SWITCHES TO MAINTAIN AESTHETIC APPEARANCE. WHERE THERMOSTATS ARE LOCATED NEAR LIGHT SWITCHES, THEY SHALL MATCH THE HEIGHT OF THE SWITCH. ATC CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND DETERMINE SUITABLE LOCATION IN WHICH THE SENSOR IS NOT NEGATIVELY EFFECTED BY HEAT OR COOLING SOURCES.

65. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.

66. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING, AND OTHER CEILING ITEMS AND MAKE MINOR DUCT MODIFICATIONS TO SUIT.

67. UNLESS OTHERWISE NOTED, ALL DUCTWORK IS OVERHEAD, TIGHT TO THE UNDERSIDE OF THE STRUCTURE, WITH SPACE FOR INSULATION IF REQUIRED.

68. PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS FOR ALL SMOKE DETECTORS, FIRE DAMPERS, SMOKE DAMPERS, VOLUME DAMPERS, HUMIDIFIERS, COILS, AND OTHER ITEMS LOCATED IN THE DUCTWORK WHICH REQUIRE SERVICE AND/OR INSPECTION.

69. PROVIDE ACCESS DOORS IN DUCTWORK FOR OPERATION, ADJUSTMENT, AND MAINTENANCE OF ALL FANS, VALVES, AND MECHANICAL EQUIPMENT.

70. SEE SPECIFICATIONS FOR DUCTWORK GAUGES, BRACING, HANGERS, AND OTHER REQUIREMENTS.

71. EXTERIOR LOUVERS ARE INDICATED IN THE MECHANICAL SCHEDULES. LOUVER SIZES, LOCATIONS, AND DETAILS SHALL BE COORDINATED WITH GENERAL CONTRACTOR. LOUVER SIZES, LOCATIONS, MOUNTING, AND DETAILS SHALL BE COORDINATED WITH OTHER TRADES INVOLVED.

72. STRUCTURAL STEEL FABRICATOR AND INSTALLER SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL FRAMED OPENINGS IN ROOF WITH APPROVED EQUIPMENT MANUFACTURERS. (OPENINGS SUCH AS, BUT NOT LIMITED TO MECHANICAL UNITS, EXHAUST FANS, CURB MOUNTED EQUIPMENT, ROOF DRAINS, SKYLIGHTS, STAIR OPENINGS, ROOF HATCHES, DUCT THROUGH ROOF PENETRATIONS, EXPANSION JOINTS, ETC.) EXACT SIZES AND EXACT LOCATIONS OF OPENINGS ARE TO BE VERIFIED WITH THE APPROVED SHOP DRAWINGS ISSUED FOR THE INSTALLATION. THE EXACT SIZES SHALL BE COORDINATED PRIOR TO ANY FABRICATION AND INSTALLATION BY ANY/ALL TRADES. SIZES AND LOCATIONS INDICATED ON CONTRACT DRAWINGS ARE DIAGRAMMATIC AND FOR INFORMATION ONLY.

73. ANY FABRICATION AND/OR INSTALLATION WHICH HAS NOT BEEN PROPERLY COORDINATED WITH APPROVED EQUIPMENT MANUFACTURER AND MUST BE REPAIRED, RELOCATED, ALTERED, REPLACED, RE-INSTALLED OR MODIFIED IN ANY MANNER, WILL BE DONE TO THE SATISFACTION OF THE OWNER, AT NO ADDITIONAL COST TO THE OWNER OR DESIGN PROFESSIONAL.

74. THESE DRAWINGS REFLECT INFORMATION ON EXISTING BUILDING SERVICES GATHERED BY LIMITED FIELD INVESTIGATION AND PREVIOUS CONSTRUCTION DRAWINGS (NOT AS-BUILT DRAWINGS). THE EXACT LOCATION, ARRANGEMENT, AND SIZES OF EXISTING DEVICES AND EQUIPMENT MAY BE DIFFERENT FROM THAT SHOWN ON THESE DRAWINGS. ALL BIDDERS ARE REQUIRED TO INVESTIGATE EXISTING BUILDING CONDITIONS (AND UNFORESEEN CONDITIONS) PRIOR TO SUBMITTING THEIR BIDS AND PROVIDE ALL REQUIRED FIELD AND SITE MEASUREMENTS PRIOR TO ORDERING ANY NEW COMPONENTS, DEVICES, CONTROLS, DUCTWORK/PIPING, OR EQUIPMENT.

75. THIS CONTRACTOR IS RESPONSIBLE FOR THE CUTTING AND PATCHING OF ALL OPENINGS RELATED TO HIS WORK. PATCHES SHALL MATCH SURROUNDING WALL SURFACES AND SHALL BE SEALED AND FIRESTOPPED AS REQUIRED.

76. CEILINGS THAT NEED TO BE TEMPORARILY REMOVED TO ALLOW FOR THE INSTALLATION OF DUCTWORK, PIPING OR EQUIPMENT, AND ARE NOT SCHEDULED TO BE REMOVED ON THE ARCHITECTURAL DRAWINGS, SHALL BE REMOVED AND REPLACE BY THIS CONTRACTOR. COORDINATE THE REMOVAL AND THE REPLACEMENT WITH THE ELECTRICAL CONTRACTOR AND THE FIRE PROTECTION CONTRACTOR.

77. MECHANICAL CONTRACTOR SHALL REPLACE (IN-KIND) ALL CEILING TILES AND CEILING GRID SEGMENTS THAT GET DAMAGED DURING DEMOLITION OR CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.

78. M.C. SHALL PROVIDE COORDINATION SHOP DRAWINGS OF HVAC DUCTWORK AND PIPING COORDINATED WITH LIGHTING, PLUMBING, AND FIRE PROTECTION. FIELD VERIFY ALL DIMENSIONS AND UNFORESEEN CONDITIONS WITH AT LEAST 1 SITE SURVEY.

LEGEND

(x/x)	EQUIPMENT TAG (SEE SCHEDULES)	SLR	GEOTHERMAL GROUND SOURCE RETURN
T	THERMOSTAT	HWS	HOT WATER SUPPLY
H	HUMIDITY SENSOR	HWR	HOT WATER RETURN
S	SWITCH	CD	CONDENSATE DRAIN
C	CO2 SENSOR	S.A.	SUPPLY AIR
SD	SMOKE DETECTOR	R.A.	RETURN AIR
	FIRE DAMPER	O.A.	OUTSIDE AIR
	COMBINATION FIRE / SMOKE DAMPER	E.A.	EXHAUST AIR
R	RISE	DL	DOOR LOUVER (SEE ARCH DWGS)
D	DROP	CO	CLEANOUT
D.X CFM	SUPPLY DIFFUSER	G	NATURAL GAS PIPING
R.X CFM	RETURN GRILLE		BALL VALVE
E.X CFM	EXHAUST GRILLE		BALANCING / SHUTOFF VALVE
F.C.	FLEXIBLE CONNECTION		GATE VALVE
MIN.	MINIMUM		CHECK VALVE
MAX.	MAXIMUM		STRAINER
E.S.P.	EXTERNAL STATIC PRESSURE		2 WAY CONTROL VALVE
TYP.	TYPICAL		3 WAY CONTROL VALVE
WMS	WIRE MESH SCREEN		GAS REGULATOR
(E)	EXISTING		POINT OF NEW CONNECTION
SLS	GEOTHERMAL GROUND SOURCE SUPPLY		POINT OF DISCONNECT

GAS PIPING NOTES:

1. ALL REGULATORS SHALL BE FACTORY EQUIPPED WITH INTERNAL RELIEF FOR OVERPRESSURE PROTECTION AND SHALL COME WITH STAINLESS STEEL BUG SCREEN. INSTALL WITH VENT POINTED DOWN TO PREVENT WATER AND DUST FROM ENTERING AND CLOGGING THE PORT.
2. PROVIDE ALL REDUCERS, COUPLINGS AND ADAPTORS REQUIRED FOR CHANGING PIPE SIZES TO VALVES, PRV'S AND EQUIPMENT INLETS/OUTLETS.
3. WHERE THE PIPING IS TO RUN HORIZONTAL AND LEVEL 12" ABOVE THE ROOF, PROVIDE MIRO MODEL S-SB-H FOR HEIGHTS UP TO 18" AND/OR MODEL 6-H SINGLE CLEVIS SUPPORT, WHICH CAN ACCOMMODATE UP TO 30". INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION DOCUMENTATION.
4. WHERE PIPING IS TO RUN PARALLEL TO THE ROOF PITCH, PROVIDE PIPING JOINTS TO ACCOUNT FOR CHANGES IN ROOF PITCH AT THE HIGH AND LOW POINTS. PROVIDE EITHER TWO-ELBOW "SWING TYPE" JOINT OF MITERED WELDED JOINT.
5. COORDINATE THE FINAL GAS CONNECTION POINT ON EACH PIECE OF EQUIPMENT WITH THE MECHANICAL CONTRACTOR BASED ON THE HIS APPROVED EQUIPMENT SHOP DRAWINGS. PROVIDE PIPING TO THE COORDINATED FINAL CONNECTION. ADJUST THE LOCATION OF THE BRANCH TAKE-OFF FROM THE MAIN AS NECESSARY TO ACCOMMODATE THE FINAL EQUIPMENT SELECTION.
6. IF EQUIPMENT BEING CONNECTED TO IS MOUNTED ON A SPRING ISOLATED CURB, ANY OTHER SPRING TYPE MOUNTING, OR ANY MOUNTING WHERE DEFLECTION CAN OCCUR, PROVIDE A FLEXIBLE CONNECTION AT THE UNIT.
7. FLEXIBLE CONNECTION SHALL BE UL LISTED AND FM GLOBAL APPROVED FOR NATURAL GAS SERVICE. INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.
8. ALL GAS PIPING OVER 4" SHALL BE WELDED BY A CERTIFIED WELDER SHOWING DOCUMENTATION BY A.P.I. 1104 OR A.S.M.E. B.31.1., NEED PROOF OF WELDING QUALIFICATIONS AND CERTIFICATION CURRENT TO DATE.

INTERIOR AND EXTERIOR GAS PIPING:

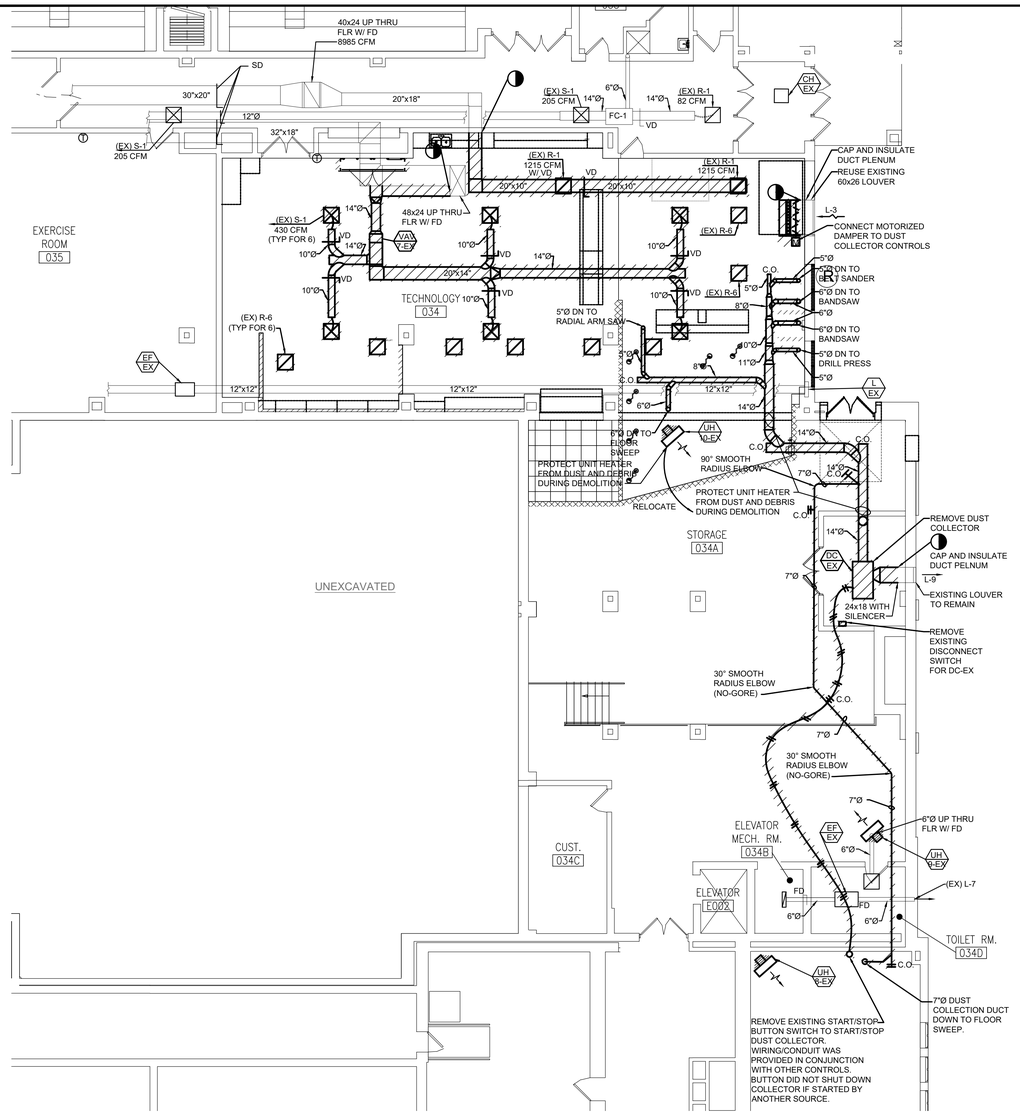
PIPE SHALL BE BLACK STEEL, ELECTRIC RESISTANCE WELDED, SCHEDULE 40, ASTM A-53.

FITTINGS: MALLEABLE IRON 150 PSIG CLASS, ASTM A-197 OR ANSI B16.9/ASTM A-234 WELDED.

JOINTS: ENTIRE PIPING SYSTEM SHALL CONSIST OF WELDED JOINTS AND FITTINGS. EXCEPTION IS SCREWED JOINTS MAY BE USED AT EQUIPMENT CONNECTIONS AND WHERE CONDITIONS PREVENT USE OF WELDED JOINTS. DO NOT USE GAS FITTER'S CEMENT EXCEPT ON OUTLET CAPS. NO THREADED JOINTS SHALL BE CONCEALED.

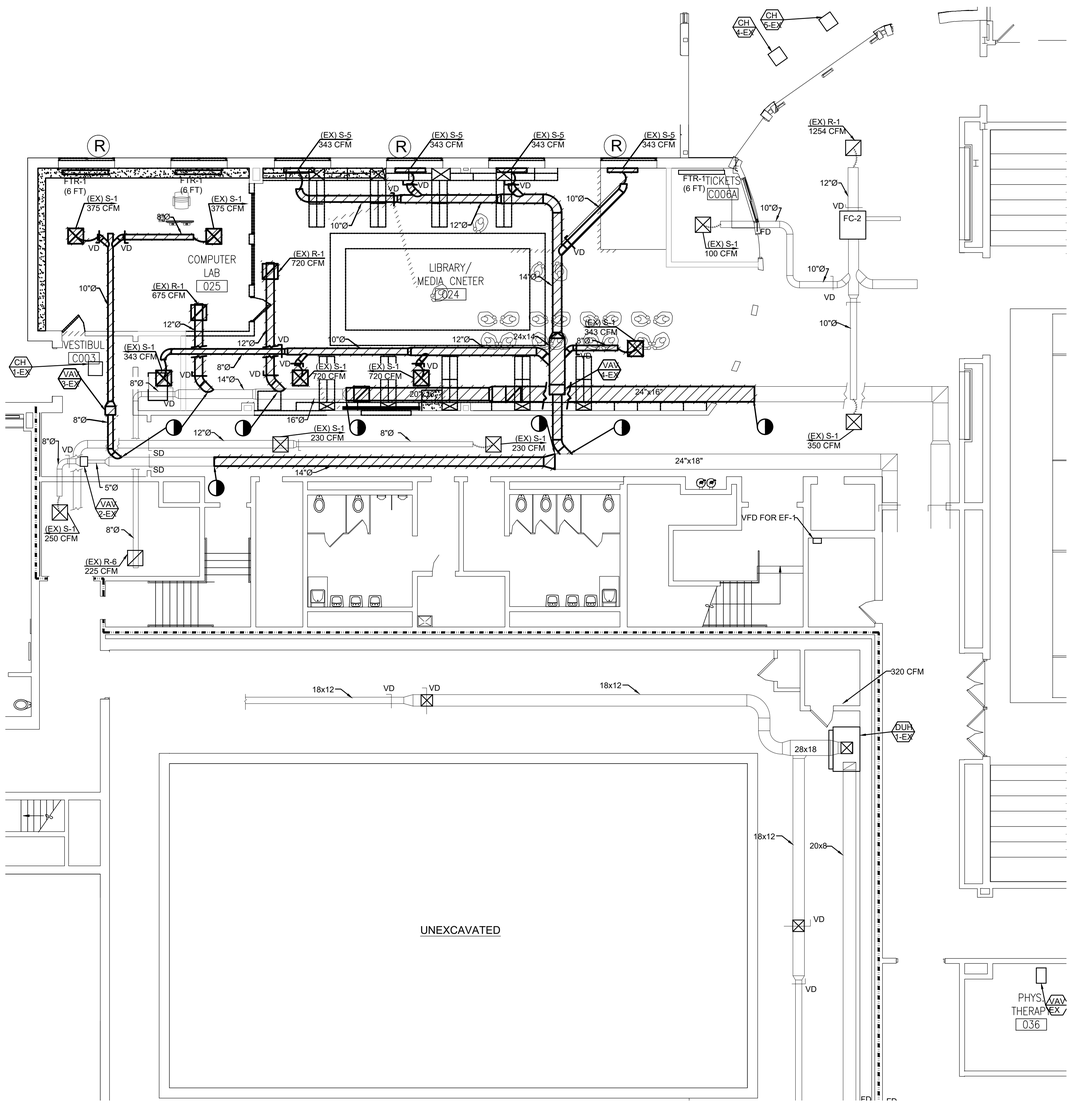
PROVIDE ALL FITTINGS REQUIRED TO ACCOMMODATE ANGLE CHANGES WHEN RUNNING GAS PIPING PARALLEL TO A PITCHED ROOF AT THE HIGH POINTS AND LOW POINTS. FITTINGS SHALL INCLUDE, BUT NOT LIMITED TO SWING JOINTS CONSISTING OF TWO ELBOWS OR MITERED WELDED JOINTS.

WHERE HVAC EQUIPMENT, PLUMBING EQUIPMENT OR ANY OTHER GAS APPLIANCE IS INSTALLED IN SPRING ISOLATORS, OR SPRING ISOLATED CURBS, OR ANY OTHER TYPE OF MOUNTING THAT PERMITS ANY MOVEMEN



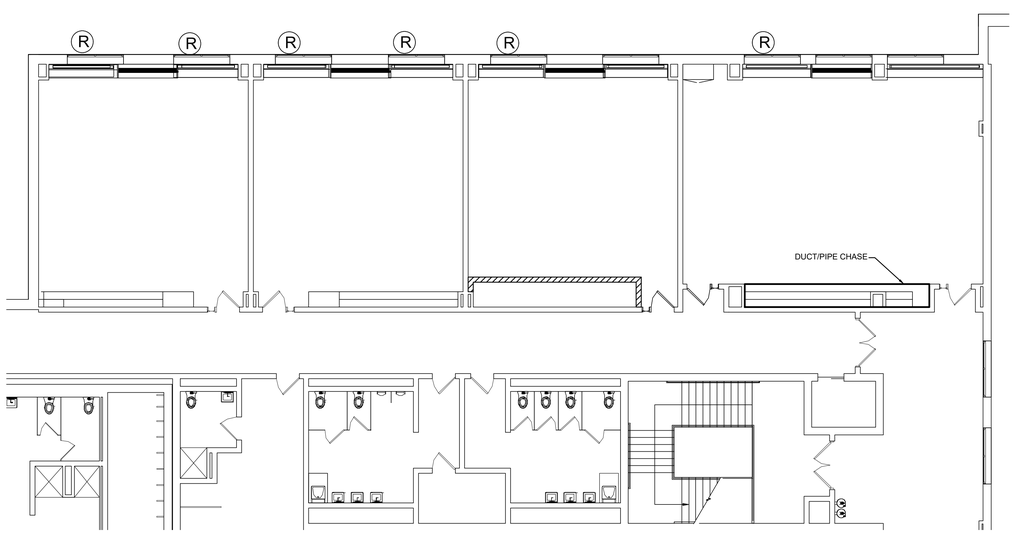
CTE AGRICULTURE LAB
DEMOLITION PLAN - DUCTWORK

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



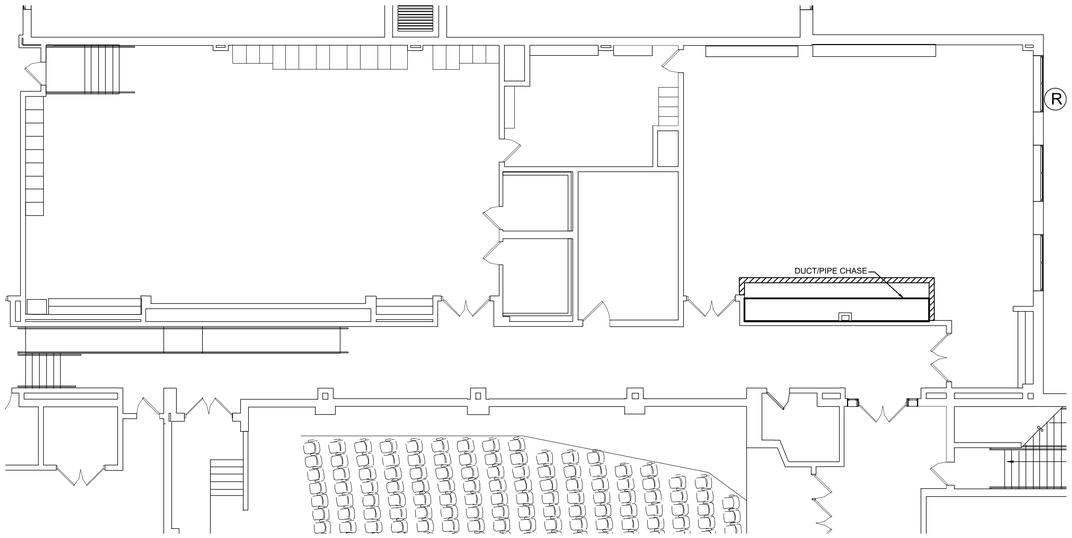
LIBRARY/MEDIA CENTER
DEMOLITION PLAN-DUCTWORK

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



FIRST FLOOR - DEMOLITION DUCTWORK

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



FIRST FLOOR - DEMOLITION DUCTWORK

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

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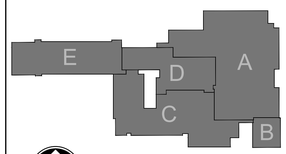

KEY PLAN

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29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

CTE AGRIG. LAB &
LIBRARY/MEDIA CENTER
DEMOLITION PLANS-DUCTWORK

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B.H.	M.P.
DATE:	PROJECT NO:
06/27/2025	2025-005

DRAWING NO:

MD-101

CAD FILE: 5005-MD-101.DWG PLOT DATE: 11/11/2025

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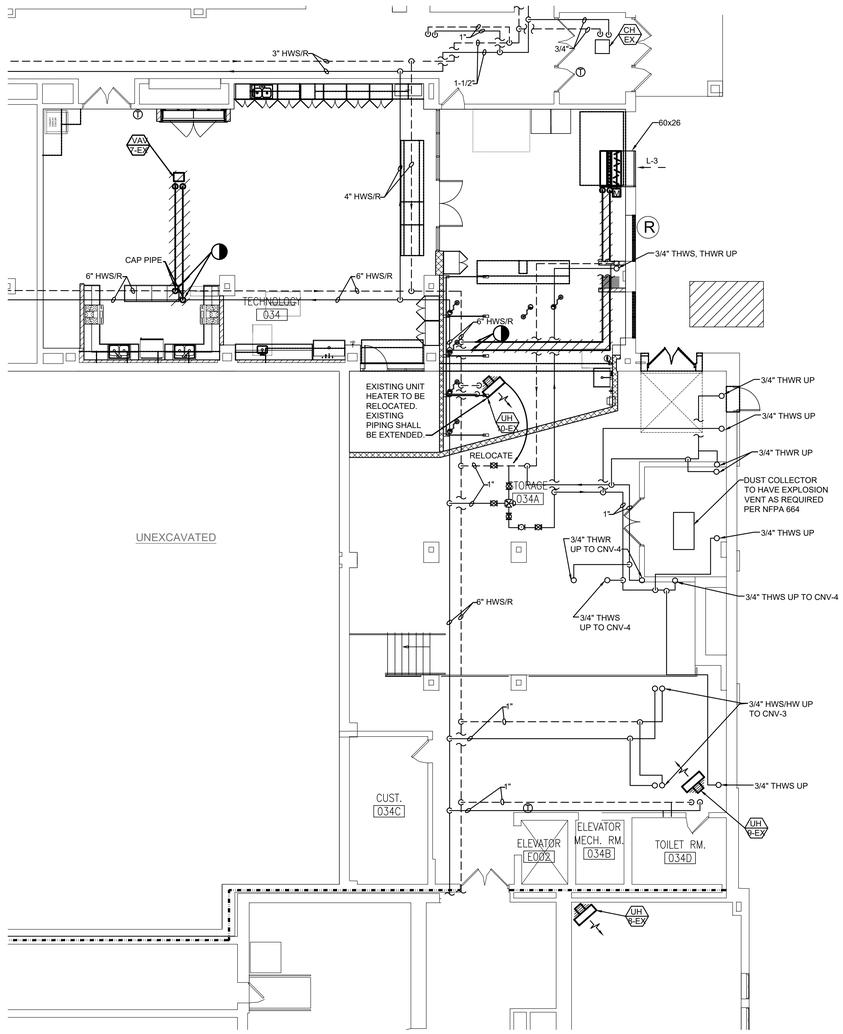
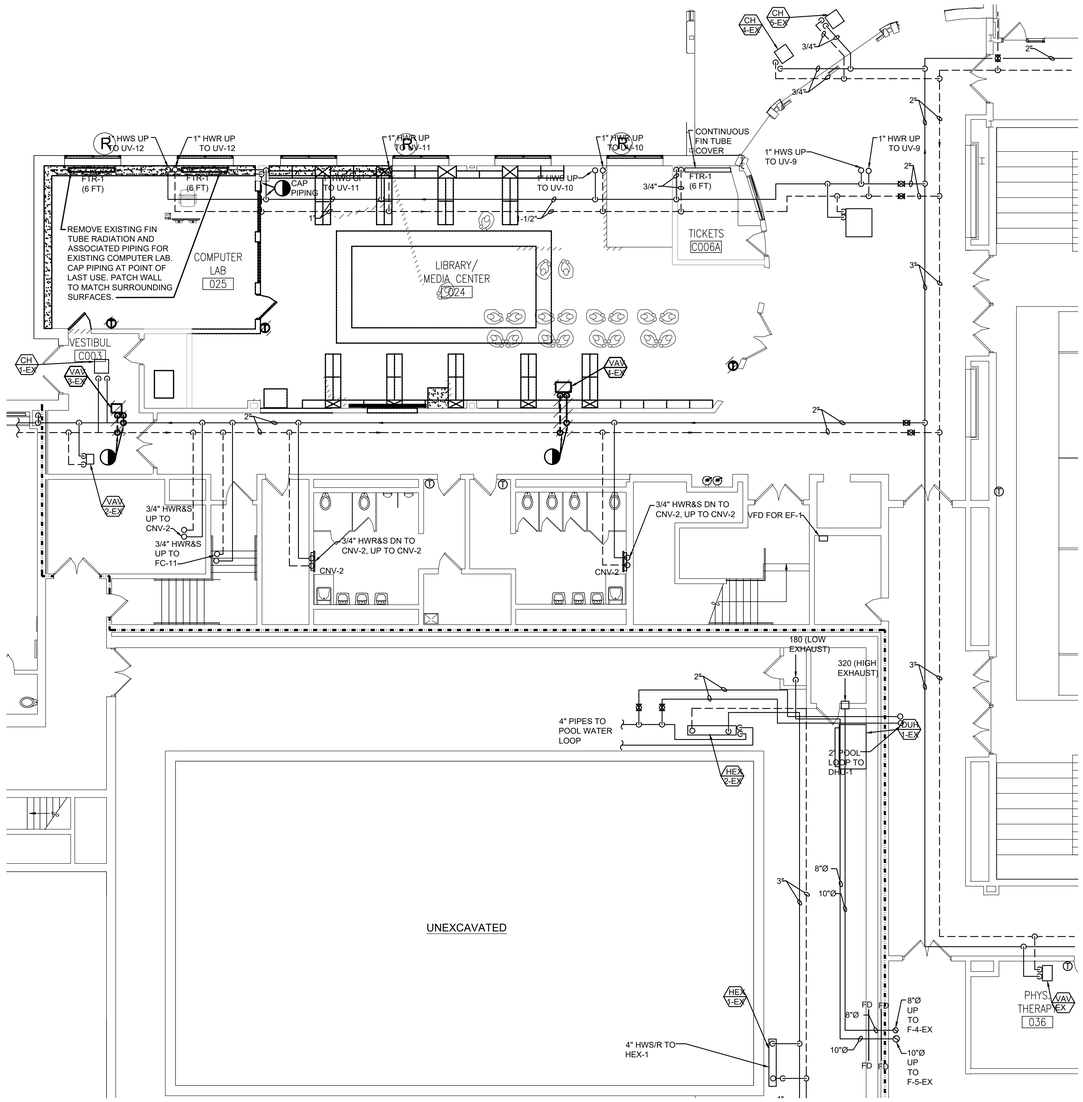


CTE AGRICULTURE LAB
DEMOLITION PLAN - PIPING
SCALE: 1/8"=1'-0"



LIBRARY/MEDIA CENTER
DEMOLITION PLAN-PIPING
SCALE: 1/8"=1'-0"

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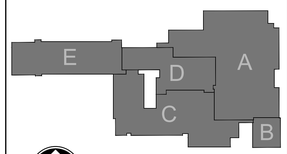

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PROJECT TITLE:

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2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:
CTE AGRIG. LAB &
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DEMOLITION PLANS-PIPING

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
06/25/2025	2025-005

DRAWING NO:

MD-102

CAD FILE: 5005-MD-102.DWG PLOT DATE: 11/11/2025

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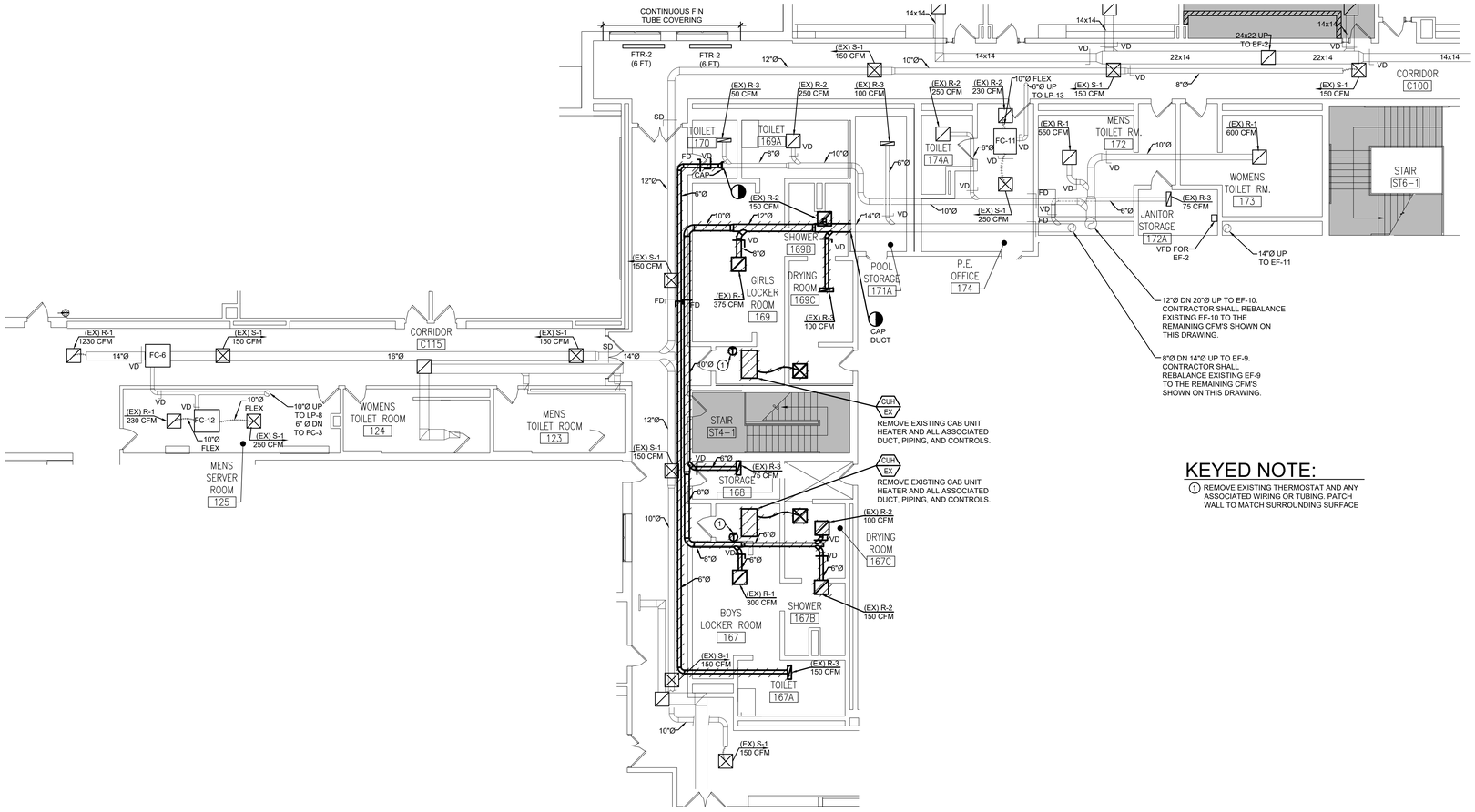
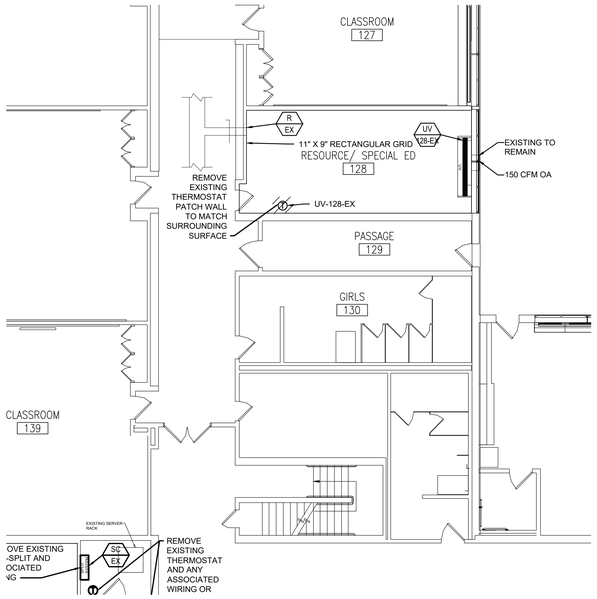


FIRST FLOOR CORRIDOR & LOCKER ROOMS DEMOLITION PLAN - DUCTWORK

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



FIRST FLOOR RESOURCE/SPECIAL ED ROOM 128 DEMOLITION PLAN - DUCTWORK

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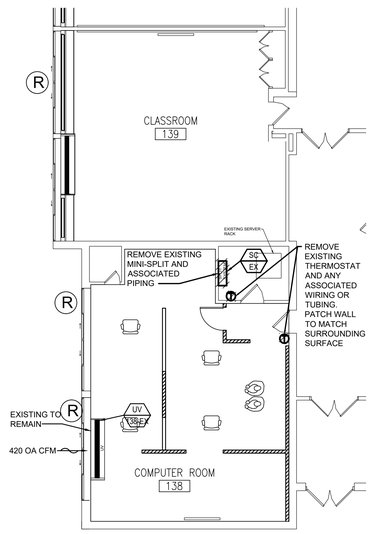

FIRST FLOOR COMPUTER ROOM 138 DEMOLITION PLAN - DUCTWORK

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

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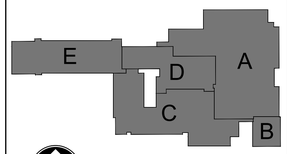
1	ADDENDUM #1	08/18/25

• NYSED REVIEW COMMENTS



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2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

FIRST FLR CORR., LCKR RMS, RM 128 & 138 DEMOLITION PLANS - DUCTWORK

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B.H.	M.P.
DATE:	PROJECT NO:
06/27/2025	2025-005

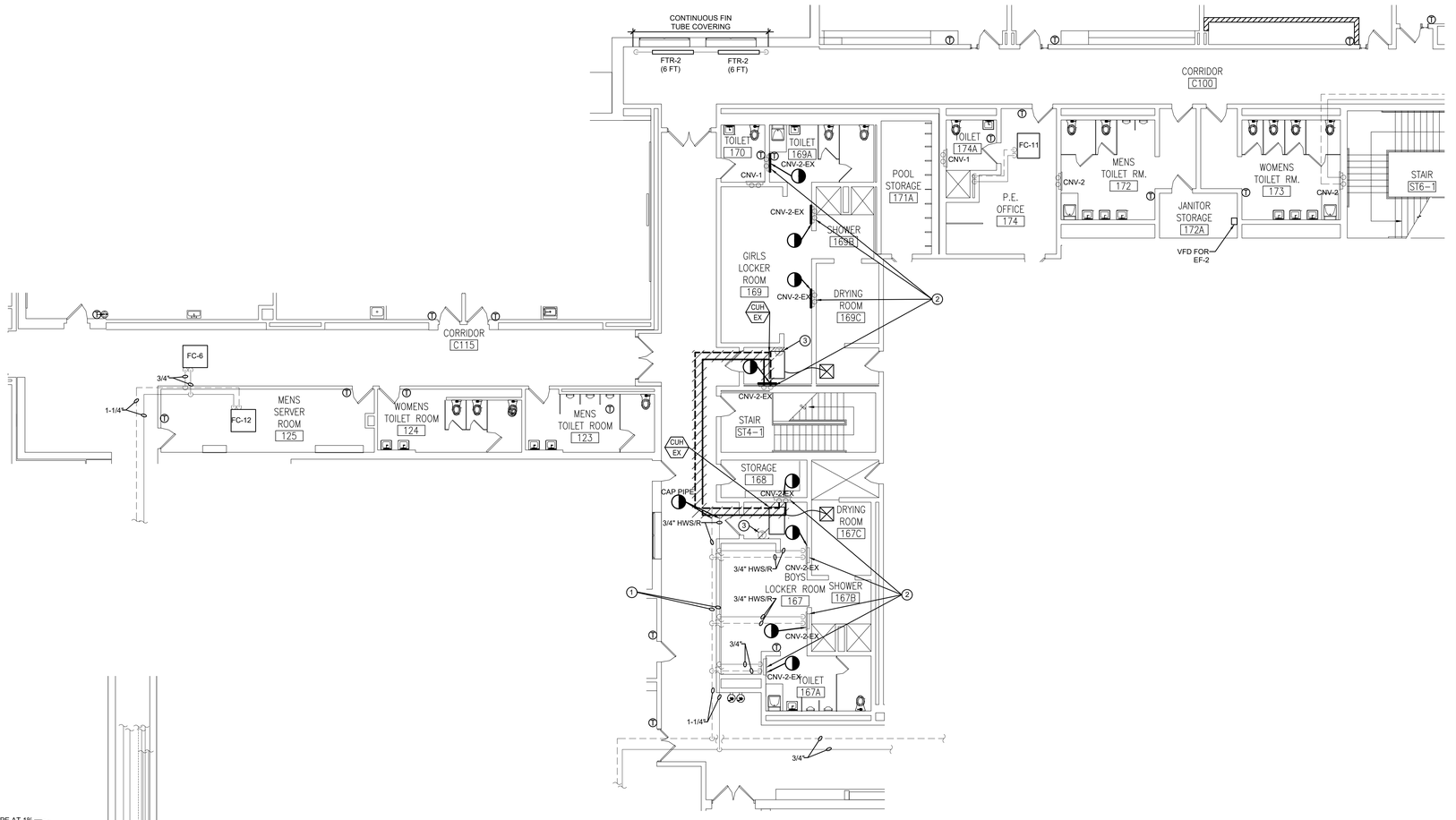
DRAWING NO:

MD-103

CAD FILE: 5005-MD-103.DWG PLOT DATE: 11/11/2025

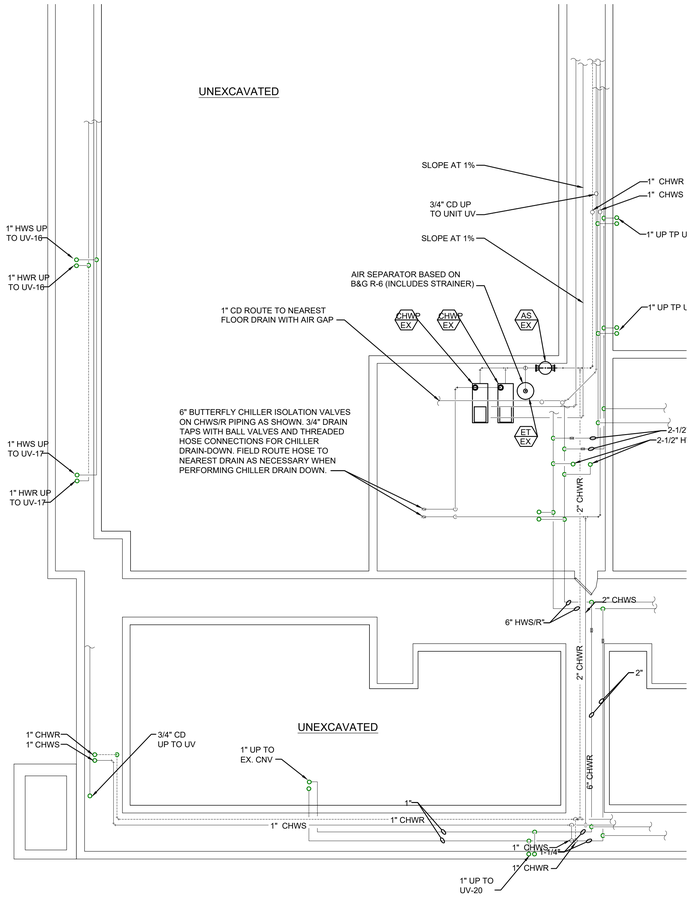
KEYED NOTES:

1. EXISTING TO REMAIN
2. EXISTING CONVECTOR TO REMAIN. EXISTING ENCLOSURE TO BE REMOVED AND REPLACED.
3. REMOVE EXISTING THERMOSTAT AND ANY ASSOCIATED WIRING OR TUBING. PATCH WALL TO MATCH SURROUNDING SURFACE.



FIRST FLOOR CORRIDOR & LOCKER ROOMS DEMOLITION PLAN - PIPING

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



GROUND FLOOR COMPUTER & RESOURCE/ SPECIAL ED DEMOLITION PLAN - EXISTING PIPING

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

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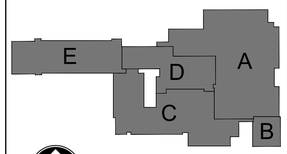

KEY PLAN

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2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

FIRST FLR CORR., LCKR RMS, RM 128 & 138 DEMOLITION PLAN - PIPING

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
06/27/2025	2025-005

DRAWING NO:

MD-104

CAD FILE: 5005-MD-104.DWG PLOT DATE: 11/11/2025

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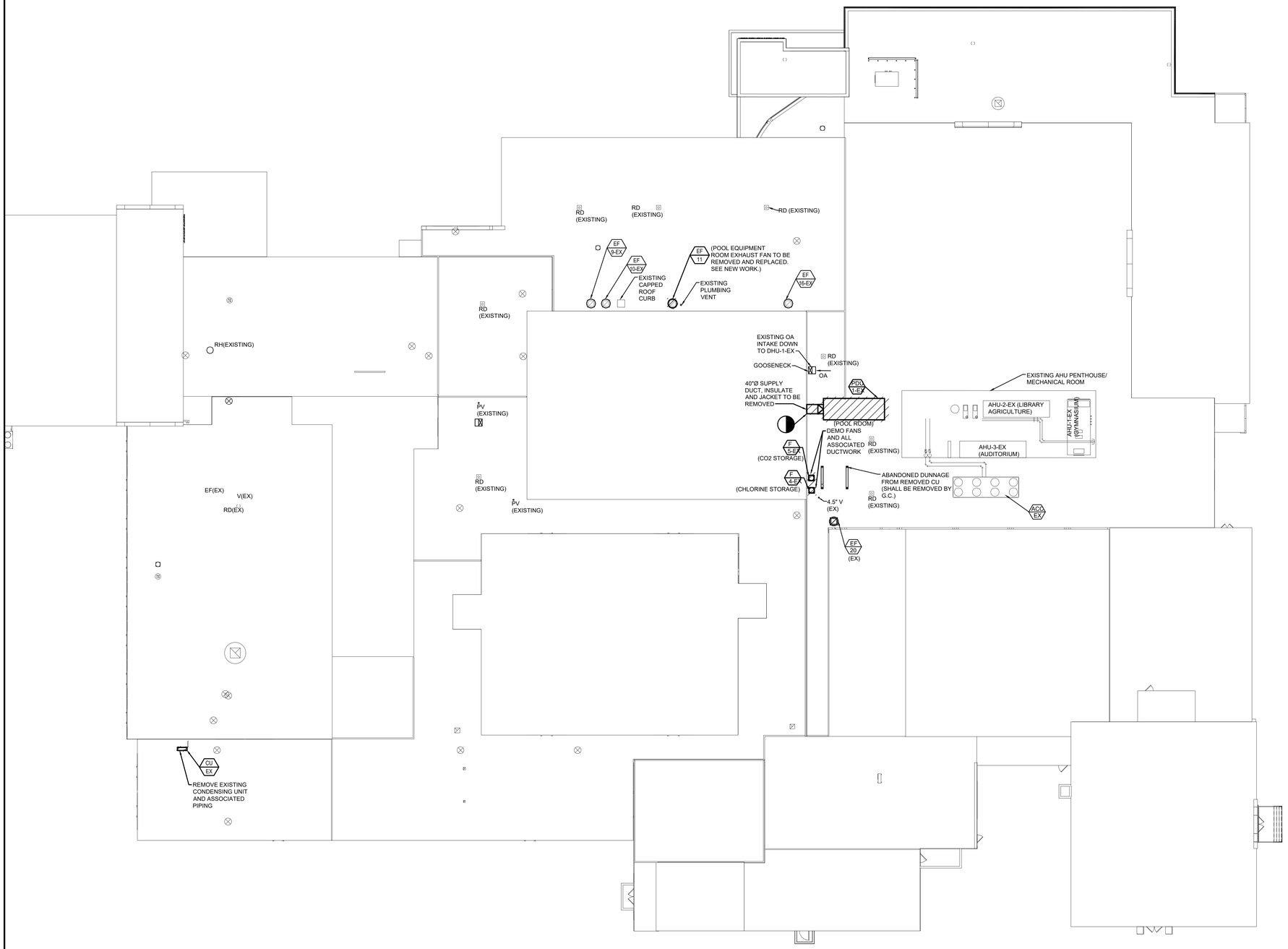

ROOF DEMOLITION PLAN

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

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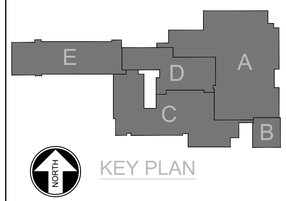

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

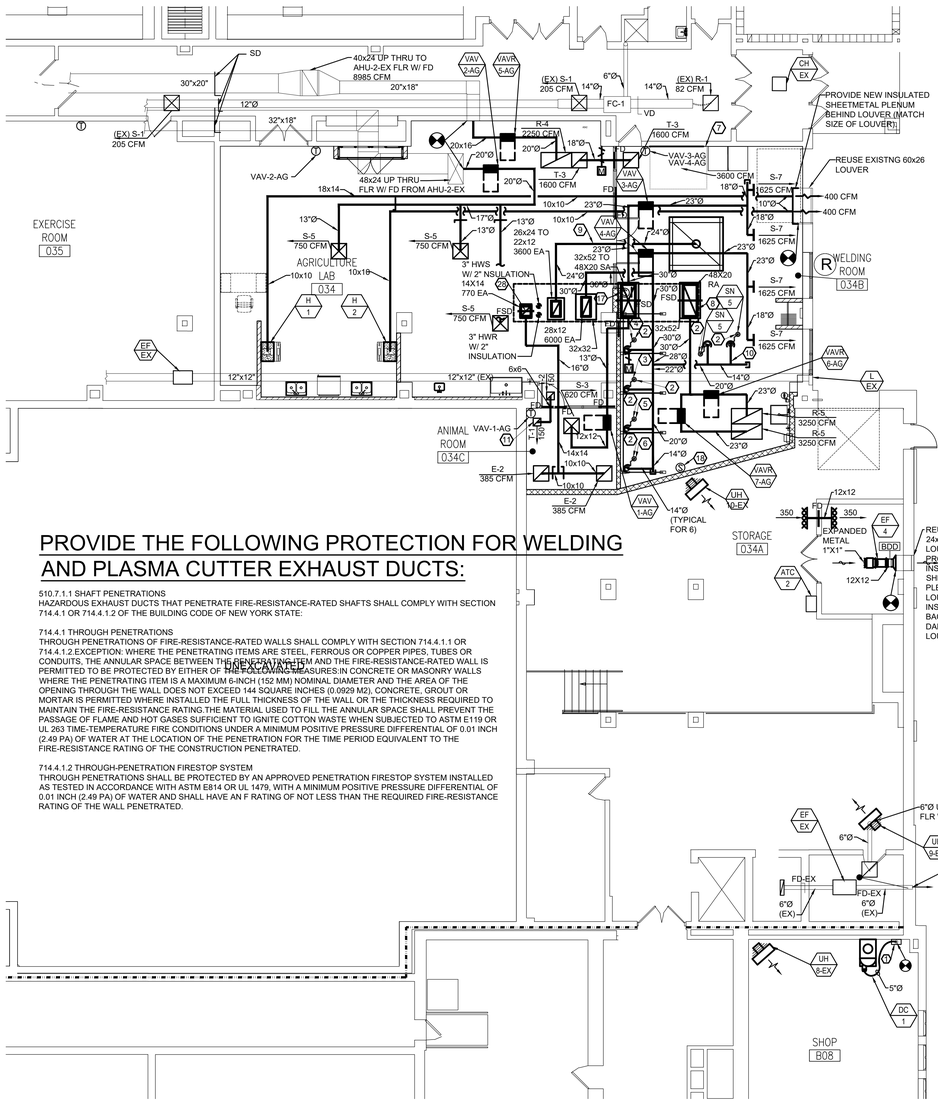
ROOF DEMOLITION PLAN

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

MD-105

CAD FILE: 5005-MD-105.DWG PLOT DATE: 11/11/2025



PROVIDE THE FOLLOWING PROTECTION FOR WELDING AND PLASMA CUTTER EXHAUST DUCTS:

UNEXCAVATED

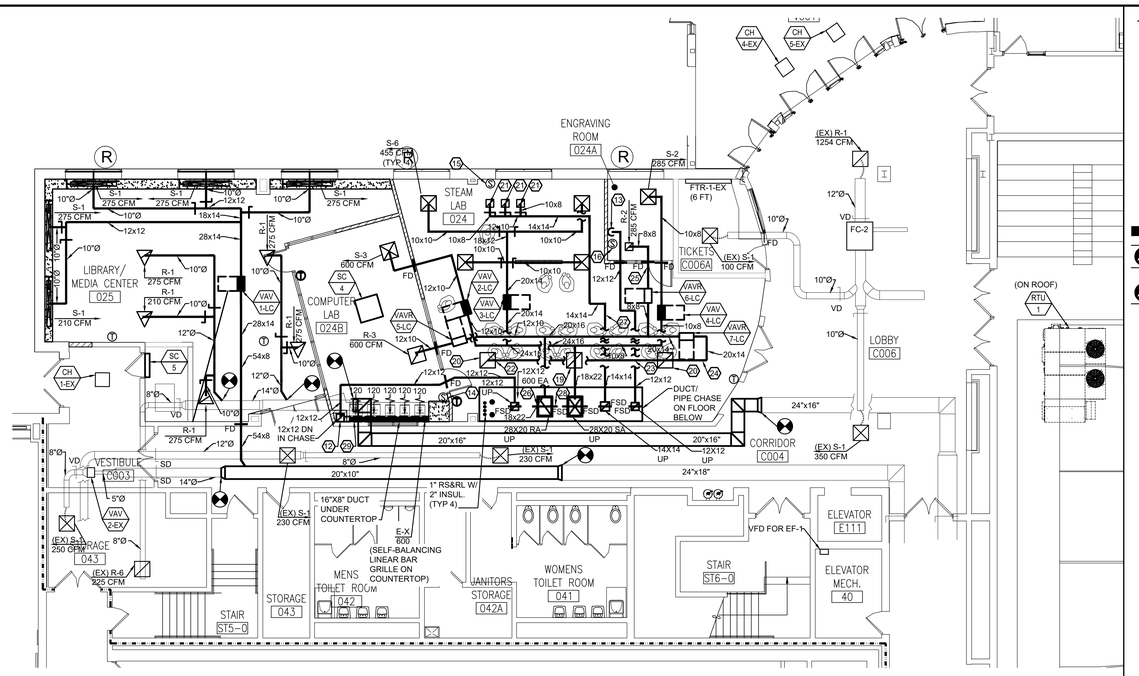
510.7.1.1 SHAFT PENETRATIONS
HAZARDOUS EXHAUST DUCTS THAT PENETRATE FIRE-RESISTANCE-RATED SHAFTS SHALL COMPLY WITH SECTION 714.4.1 OR 714.4.1.2 OF THE BUILDING CODE OF NEW YORK STATE:

714.4.1 THROUGH PENETRATIONS
THROUGH PENETRATIONS OF FIRE-RESISTANCE-RATED WALLS SHALL COMPLY WITH SECTION 714.4.1.1 OR 714.4.1.2.EXCEPTION: WHERE THE PENETRATING ITEMS ARE STEEL, FERROUS OR COPPER PIPES, TUBES OR CONDUITS, THE ANNULAR SPACE BETWEEN THE PENETRATING ITEM AND THE FIRE-RESISTANCE-RATED WALL IS PERMITTED TO BE PROTECTED BY EITHER OF THE FOLLOWING MEASURES:IN CONCRETE OR MASONRY WALLS WHERE THE PENETRATING ITEM IS A MAXIMUM 6-INCH (152 MM) NOMINAL DIAMETER AND THE AREA OF THE OPENING THROUGH THE WALL DOES NOT EXCEED 144 SQUARE INCHES (0.0929 M2), CONCRETE, GROUT OR MORTAR IS PERMITTED WHERE INSTALLED THE FULL THICKNESS OF THE WALL OR THE THICKNESS REQUIRED TO MAINTAIN THE FIRE-RESISTANCE RATING.THE MATERIAL USED TO FILL THE ANNULAR SPACE SHALL PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHEN SUBJECTED TO ASTM E119 OR UL 263 TIME-TEMPERATURE FIRE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER AT THE LOCATION OF THE PENETRATION FOR THE TIME PERIOD EQUIVALENT TO THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION PENETRATED.

714.4.1.2 THROUGH-PENETRATION FIRESTOP SYSTEM
THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED.

CTE AGRICULTURE LAB RENOVATION PLAN - DUCTWORK

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

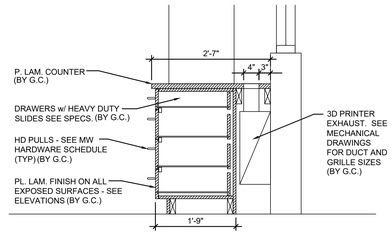


LIBRARY/MEDIA CENTER RENOVATION PLAN-DUCTWORK

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

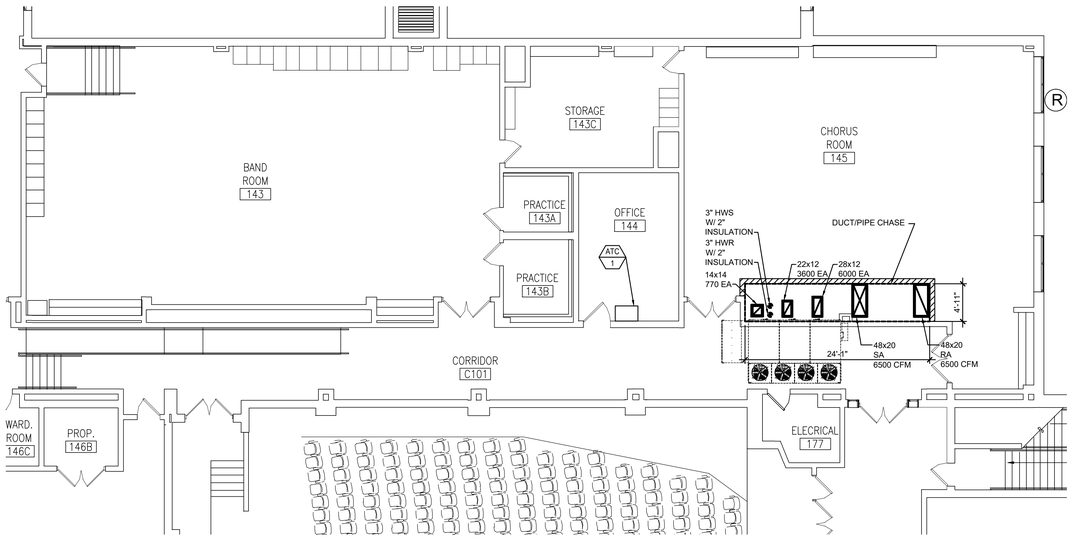
KEYED NOTES

1. (EXISTING FLOOR SWEEP TO REMAIN). PROVIDE NEW 5" FLEX DUCT TO EXISTING FLOOR SWEEP AND CONNECT TO DC-1 (NEW).
2. PROVIDE EXTRACTION ARMS FOR WELDING BOOTHS (3 REQUIRED): BASIS OF DESIGN - MOVEX PR EXTRACTION ARM SHALL BE EXTERNAL SUPPORTED 8" DIA. X 7' LONG COMPLETE WITH WALL BRACKET AND DAMPER IN HOOD. PROVIDED BRACKET TO BE POWDER COATED STEEL. ARM SUPPORT IS ANODIZED ALUMINUM WITH OPTIMALLY DESIGNED HOOD TO LAY FLAT ON SURFACE FOR ADDITIONAL CAPTURE EFFICIENCY.
   THE PROVIDED HOOD SHALL BE INJECTION MOLD POLYPROPYLENE WITH A ALUMINUM HOOD PLATE (GREY) WITH BUILT IN HANDLE GRIP FOR EASE OF MOVEMENT AND DARK BLUE PE-COATED POLYAMIDE FABRIC WITH EMBEDDED SPRING STEEL COIL.
3. PROVIDE SN-3 WELDING SNORKEL 1000 CFM
4. PROVIDE SN-4 WELDING SNORKEL 1000 CFM
5. PROVIDE SN-2 WELDING SNORKEL 1000 CFM
6. PROVIDE SN-1 WELDING SNORKEL 1000 CFM
7. 84" x 84" x 18" HOOD ABOVE PLASMA TABLE. PAINT HOOD (COLOR BY ARCHITECT).
8. DUCT/PIPE CHASE
9. 24"Ø 3600 EA
10. 14"Ø WELDING ARM EXHAUST (TYPICAL)
11. TRANSFER AIR 150 CFM INTO ANIMAL ROOM
12. PROVIDE NEW 12x12 EXHAUST DUCT DROP TO COUNTER HEIGHT EXHAUST LOUVER IN THE MILLWORK.
13. PROVIDE NEW 6"Ø SPIRAL ROUND EXHAUST DUCT BELOW CEILING TO BLAST GATE DAMPER. PROVIDE 2" AIR GAP (THIMBLE) TRANSITION FROM 6" TO SIZE OF EXHAUST HOSE FOR LASER ENGRAVER. PROVIDE FLEX DUCT TO BACK OF LASER ENGRAVER. PROVIDE ALL REQUIRED DUCTWORK TRANSITIONS, HANGERS, AND HARDWARE. COORDINATE WITH LASER ENGRAVER MANUFACTURER RECOMMENDATIONS.
14. WALL-MOUNTED FAN SWITCH. INTERLOCK WITH EF-1-LC
15. WALL-MOUNTED FAN SWITCH. INTERLOCK WITH EF-2-LC
16. WALL-MOUNTED FAN SWITCH. INTERLOCK WITH EF-3-LC
17. WALL-MOUNTED FAN SWITCH. INTERLOCK WITH EF-2-AG
18. WALL-MOUNTED FAN SWITCH. INTERLOCK WITH EF-3-AG
19. R-3 610 CFM
20. R-3 605 CFM
21. E-1 300 CFM
22. 12x10 RETURN DUCT
23. 20x10 RETURN DUCT
24. 20x14 RETURN DUCT
25. 10x8 RETURN DUCT
26. 22x18 RETURN DUCT
27. 14x12 EXHAUST DUCT
28. PROVIDE FSD AT SECOND FLOOR SLAB (TYPICAL).
29. CONNECT BAR GRILLE TO 4" X 10'-0" SHEETMETAL PLENUM. CONNECT PLENUM TO 16X8 DUCT BELOW COUNTERTOP.



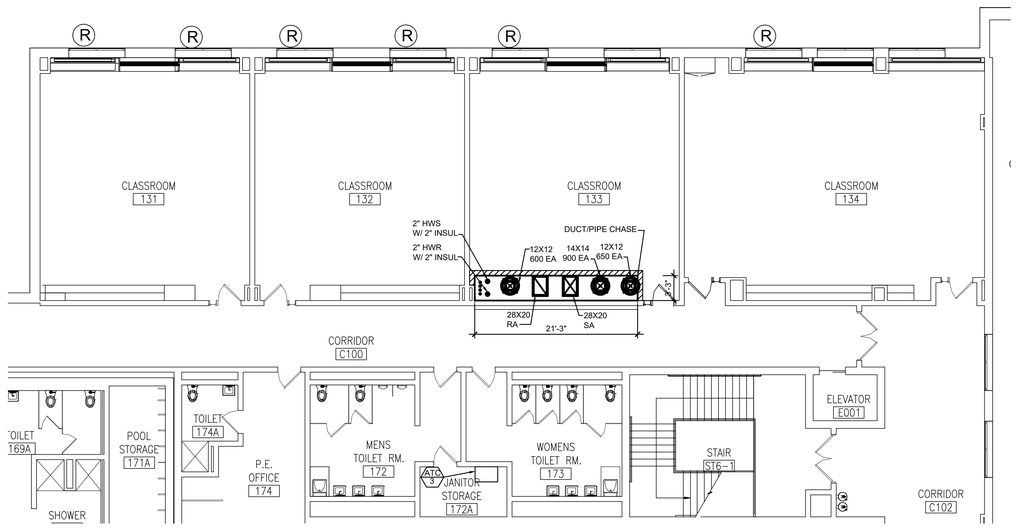
SECTION AT 3D PRINTING

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



FIRST FLOOR - RENOVATION DUCTWORK

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



SECOND FLOOR - RENOVATION DUCTWORK

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

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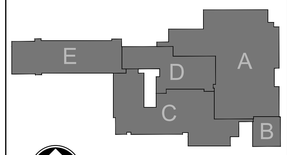
REVISION NO:		
1	ADDENDUM #1	08/18/25
	• NYSED REVIEW COMMENTS	
2	ADDENDUM #2	10/10/2025
	• NYSED REVIEW COMMENTS	



KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

CTE AGRIG. LAB & LIBRARY/MEDIA CENTER RENOVATION PLANS-DUCTWORK

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
06/27/2025	2025-005

DRAWING NO:

M-101

CAD FILE: 5005-M-101.DWG PLOT DATE: 11/11/2025

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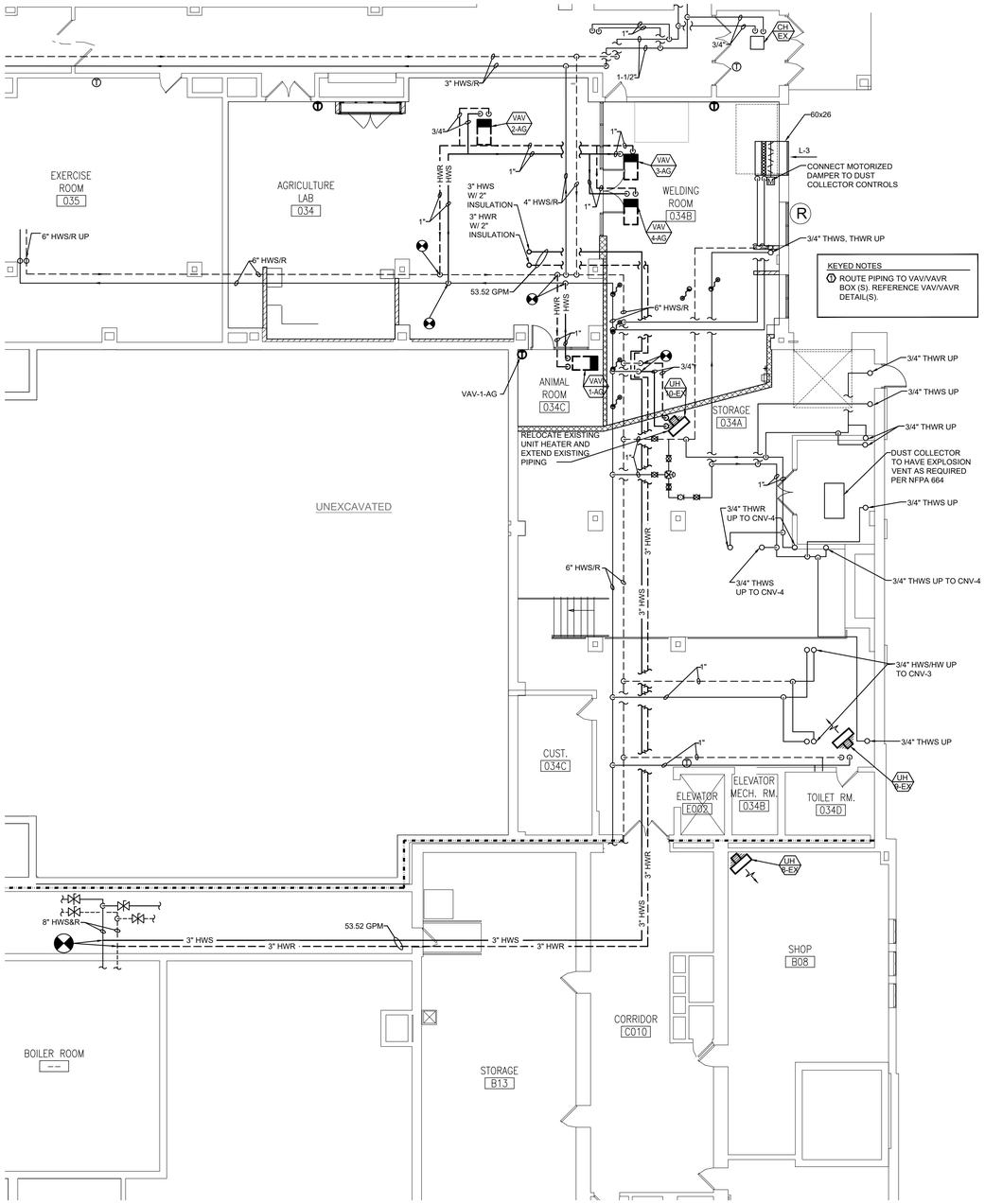
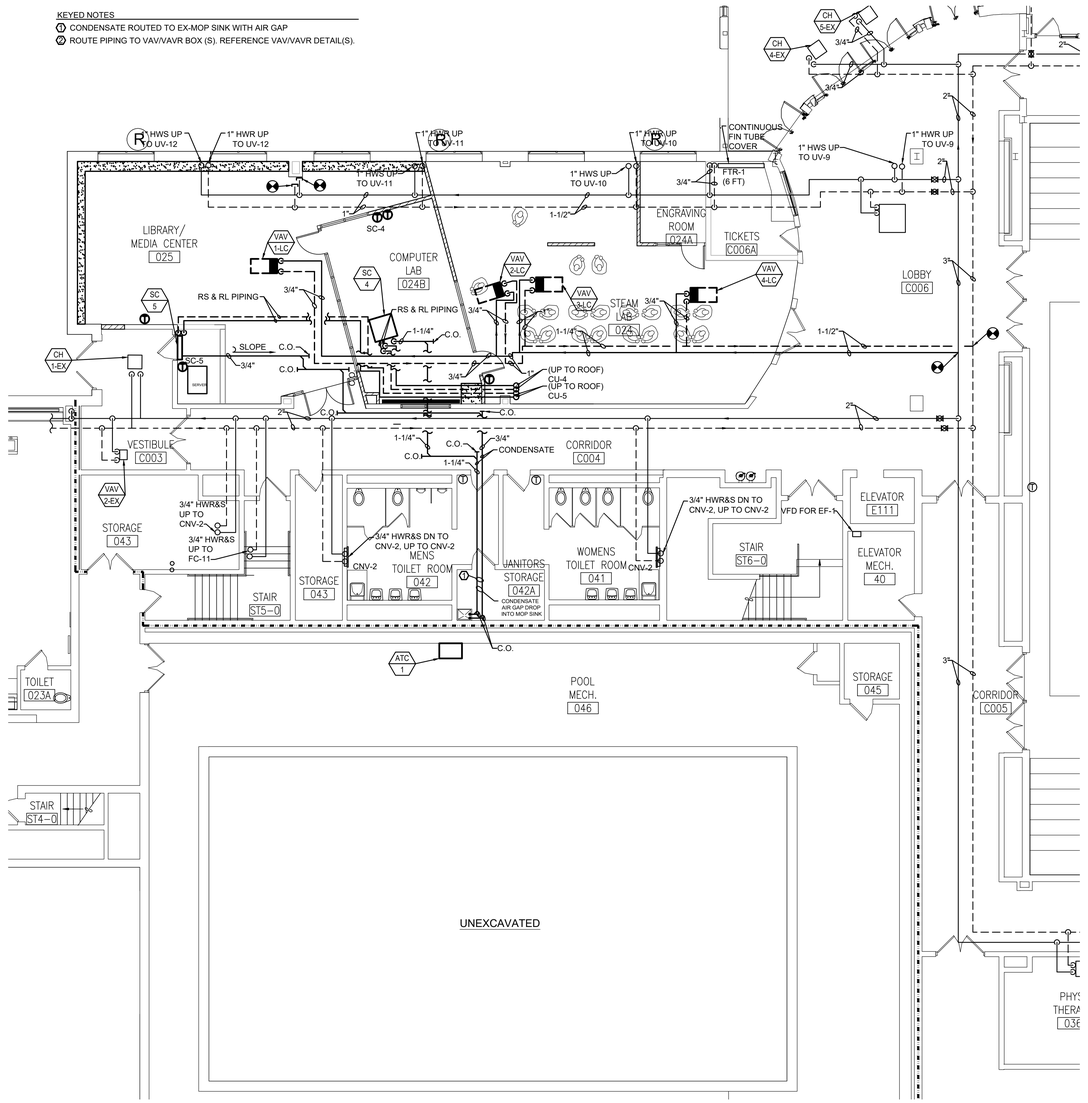


CTE AGRICULTURE LAB RENOVATION PLAN - PIPING

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



LIBRARY/MEDIA CENTER RENOVATION PLAN-PIPING

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

GENERAL NOTES:

PIPING NOTE: SIZE, TRAP, AND INSULATE ALL REFRIGERANT PIPING PER ALL MANUFACTURER RECOMMENDATIONS

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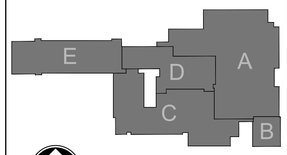
REVISION NO:

1	ADDENDUM #1	08/18/25

- NYSED REVIEW COMMENTS



KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

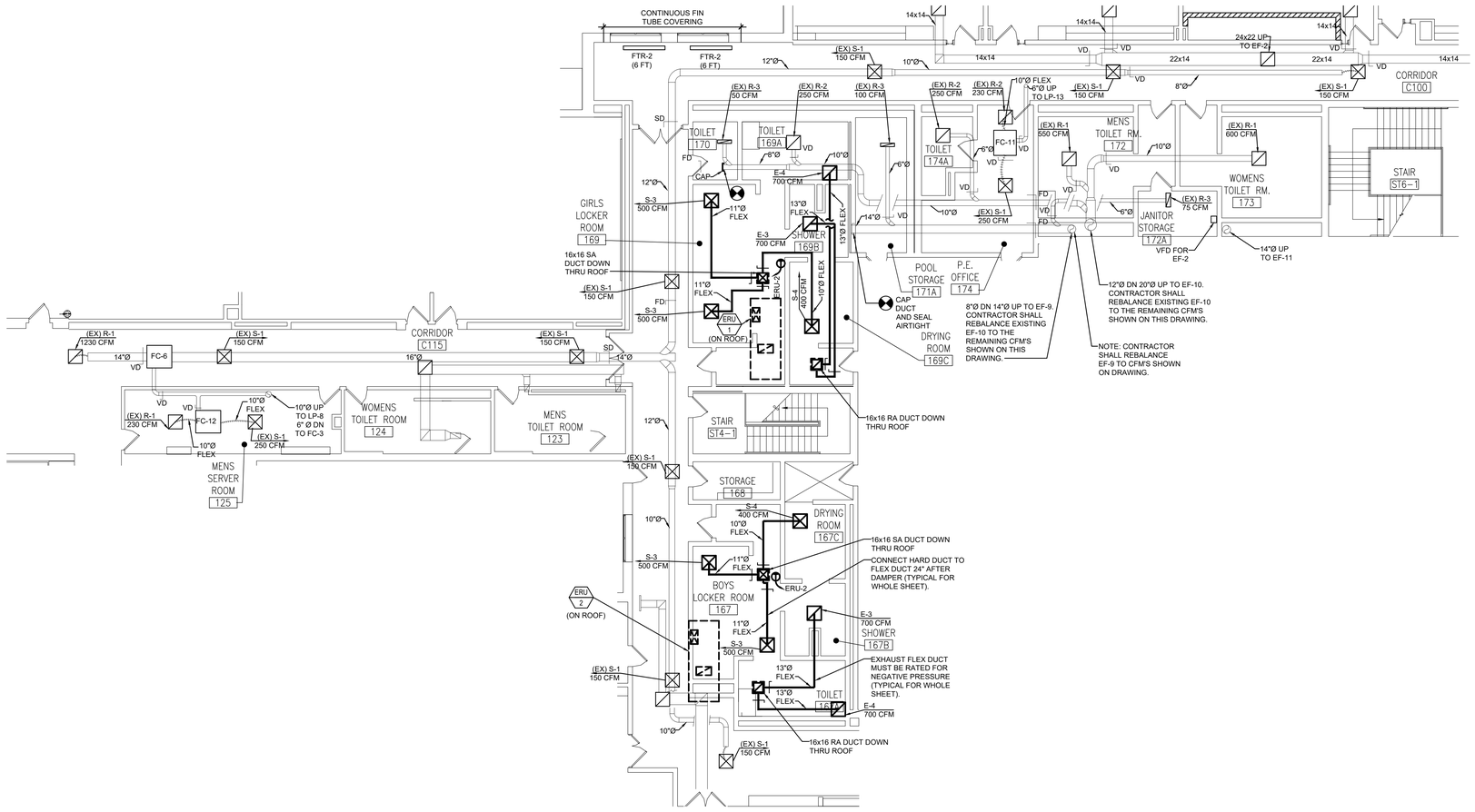
CTE AGRIG. LAB & LIBRARY/MEDIA CENTER RENOVATION PLANS-PIPING

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE: 06/27/2025	PROJECT NO: 2025-005

DRAWING NO:

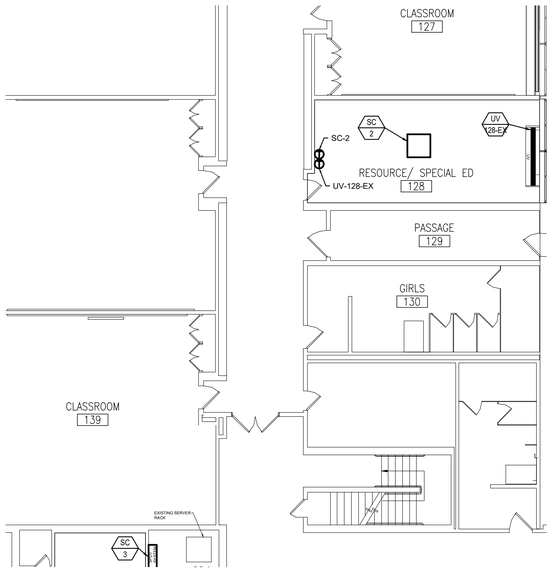
M-102

CAD FILE: 5005-M-102.DWG PLOT DATE: 11/11/2025



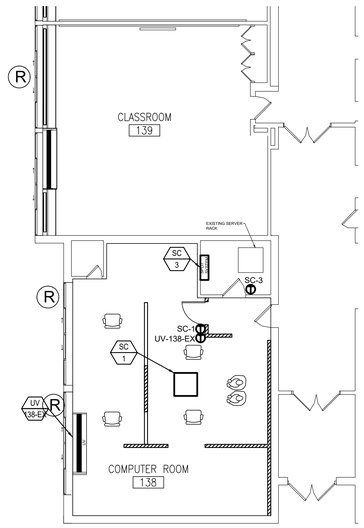
FIRST FLOOR CORRIDOR & LOCKER ROOMS RENOVATION PLAN - DUCTWORK

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



FIRST FLOOR RESOURCE/SPECIAL ED ROOM 128 RENOVATION PLAN - DUCTWORK

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



FIRST FLOOR COMPUTER ROOM 138 RENOVATION PLAN - DUCTWORK

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

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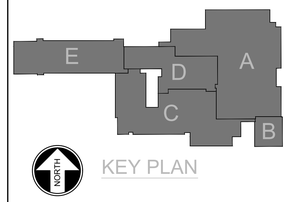

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

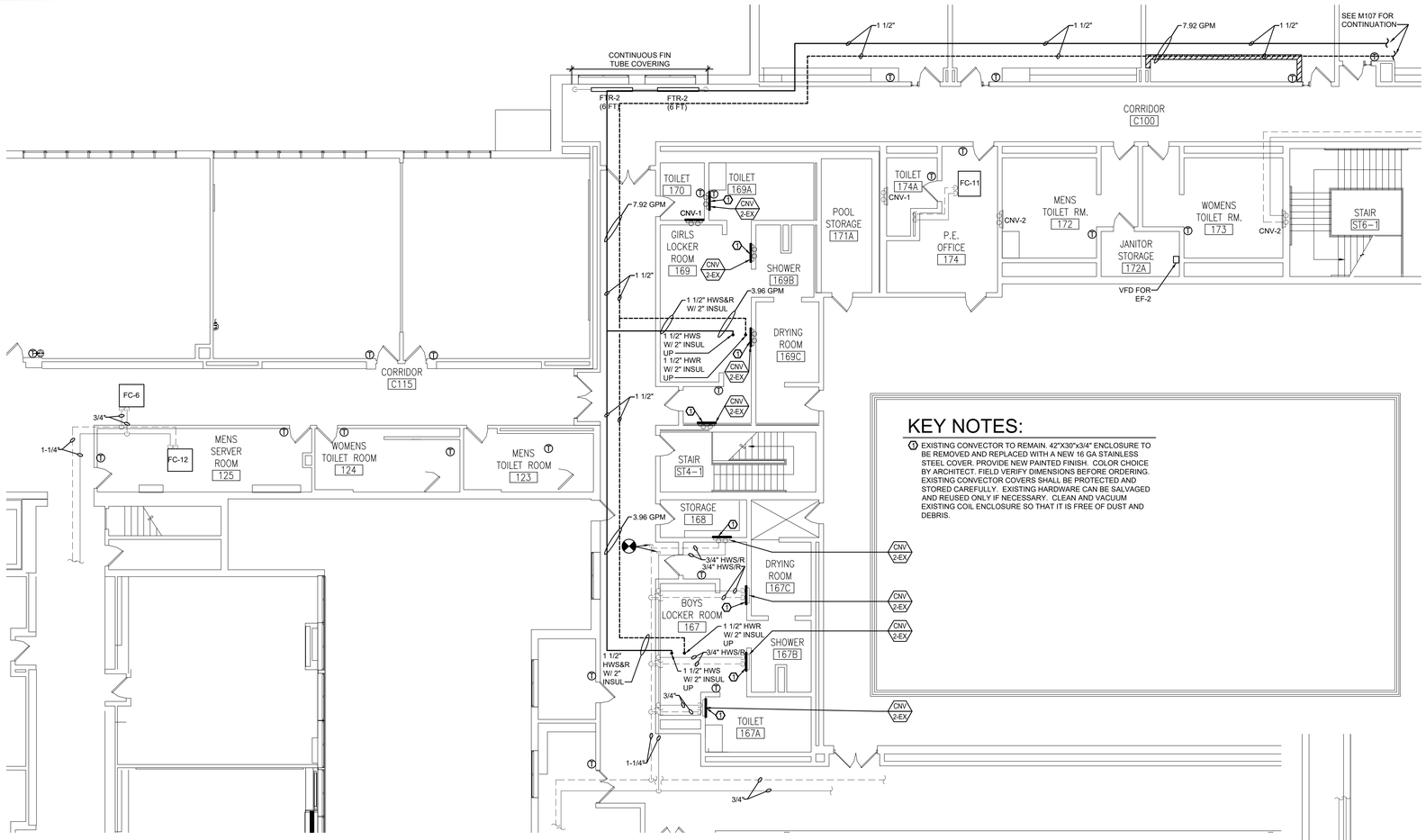
FIRST FLR CORR., LCKR RMS, RM 128 & 138 RENOVATION PLANS - DUCTWORK

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
06/27/2025	2025-005

DRAWING NO:

M-103

CAD FILE: 5005-M-103.DWG PLOT DATE: 11/11/2025



KEY NOTES:

① EXISTING CONVECTOR TO REMAIN. 42"X30"x3/4" ENCLOSURE TO BE REMOVED AND REPLACED WITH A NEW 16 GA STAINLESS STEEL COVER. PROVIDE NEW PAINTED FINISH. COLOR CHOICE BY ARCHITECT. FIELD VERIFY DIMENSIONS BEFORE ORDERING. EXISTING CONVECTOR COVERS SHALL BE PROTECTED AND STORED CAREFULLY. EXISTING HARDWARE CAN BE SALVAGED AND REUSED ONLY IF NECESSARY. CLEAN AND VACUUM EXISTING COIL ENCLOSURE SO THAT IT IS FREE OF DUST AND DEBRIS.

FIRST FLOOR CORRIDOR & LOCKER ROOMS RENOVATION PLAN - PIPING

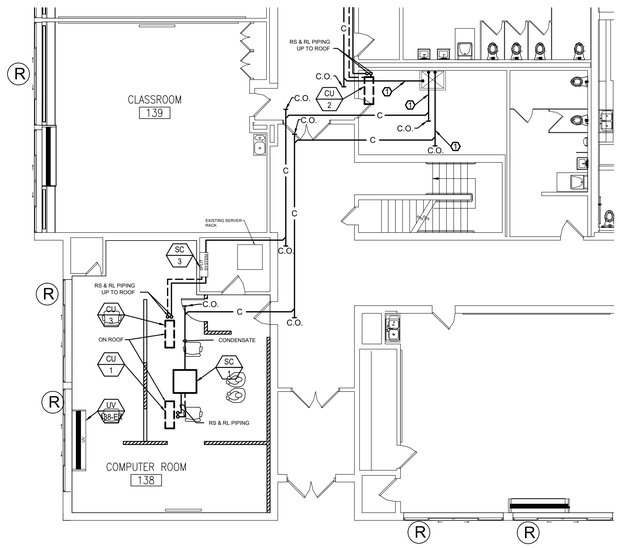
SCALE: 1/8"=1'-0"

KEYED NOTES:

① CONDENSATE ROUTED TO EX-MOP SINK WITH AIR GAP

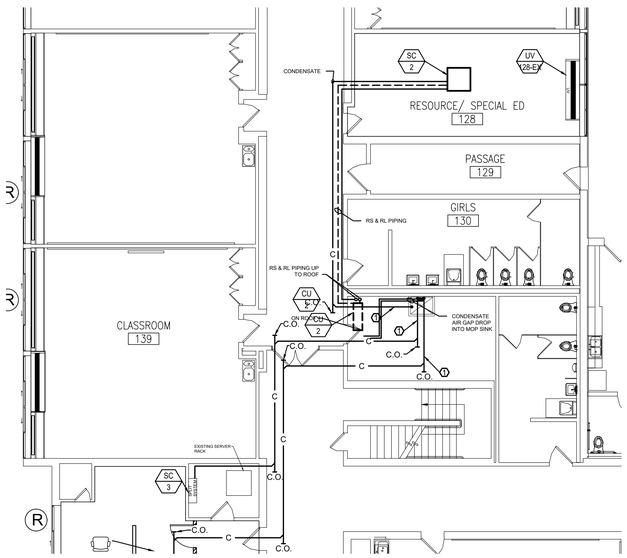
GENERAL NOTES:

PIPING NOTE: SIZE, TRAP, AND INSULATE ALL REFRIGERANT PIPING PER ALL MANUFACTURER RECOMMENDATIONS



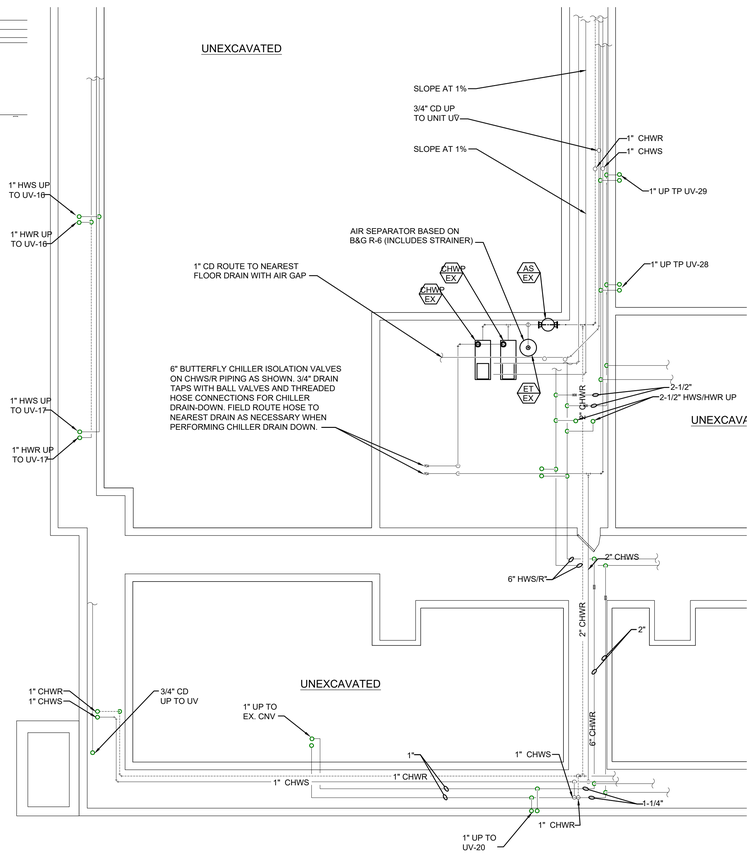
FIRST FLOOR IT RENOVATION PLAN - PIPING

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



FIRST FLOOR RESOURCE/ SPECIAL ED RENOVATION PLAN - PIPING

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



GROUND FLOOR COMPUTER & RESOURCE/ SPECIAL ED RENOVATION PLAN - EXISTING PIPING

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

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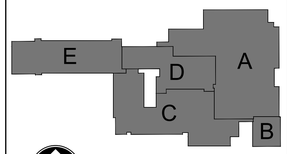

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

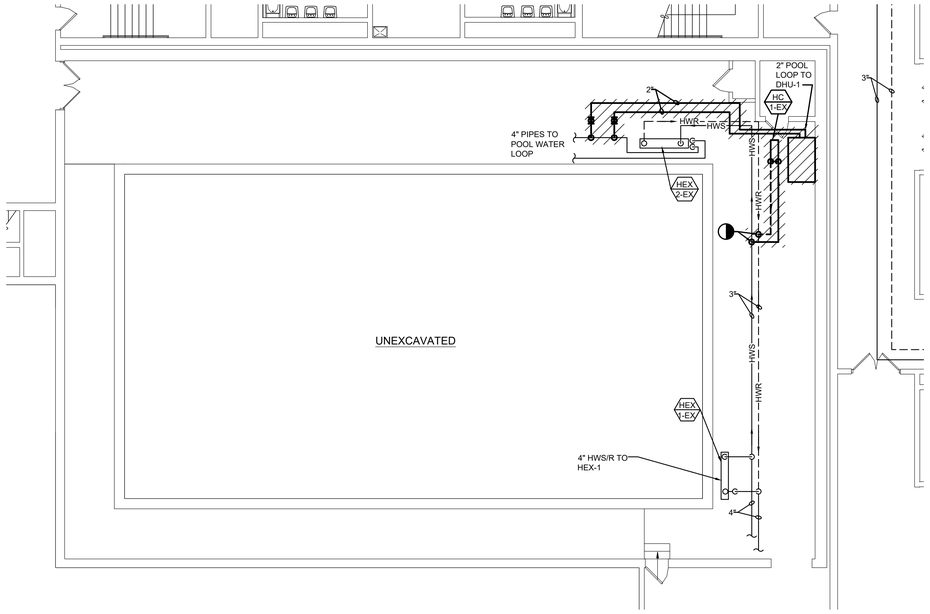
FIRST FLR CORR., LCKR RMS, RM 128 & 138 RENOVATION PLAN - PIPING

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
06/27/2025	2025-005

DRAWING NO:

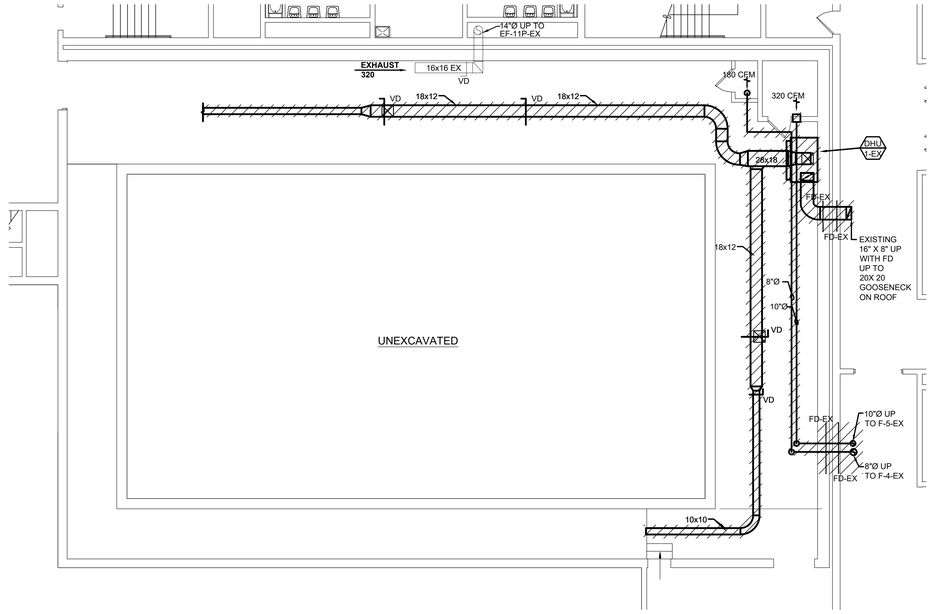
M-104

CAD FILE: 5005-M-104.DWG PLOT DATE: 11/11/2025



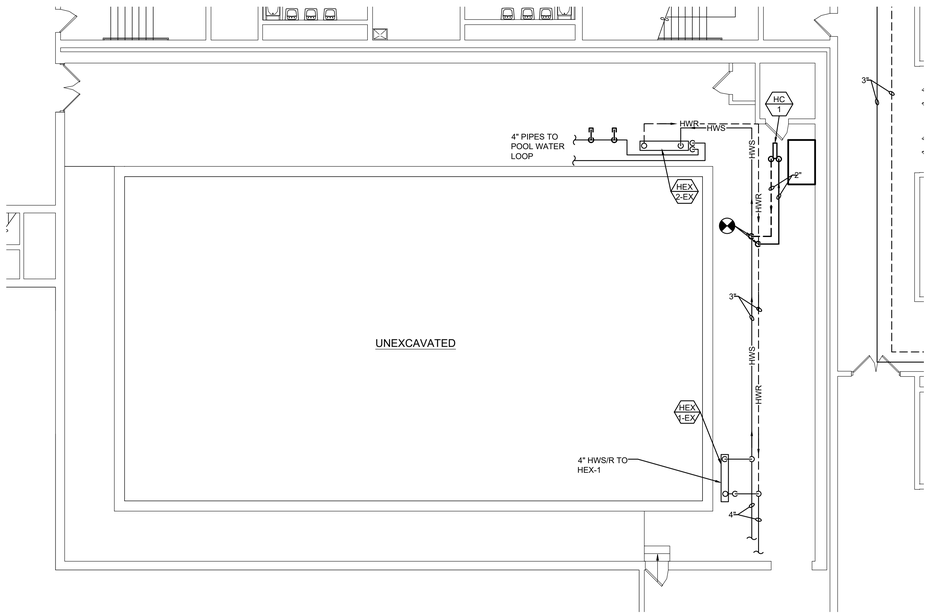
POOL BASEMENT DEMOLITION PLAN - PIPING

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



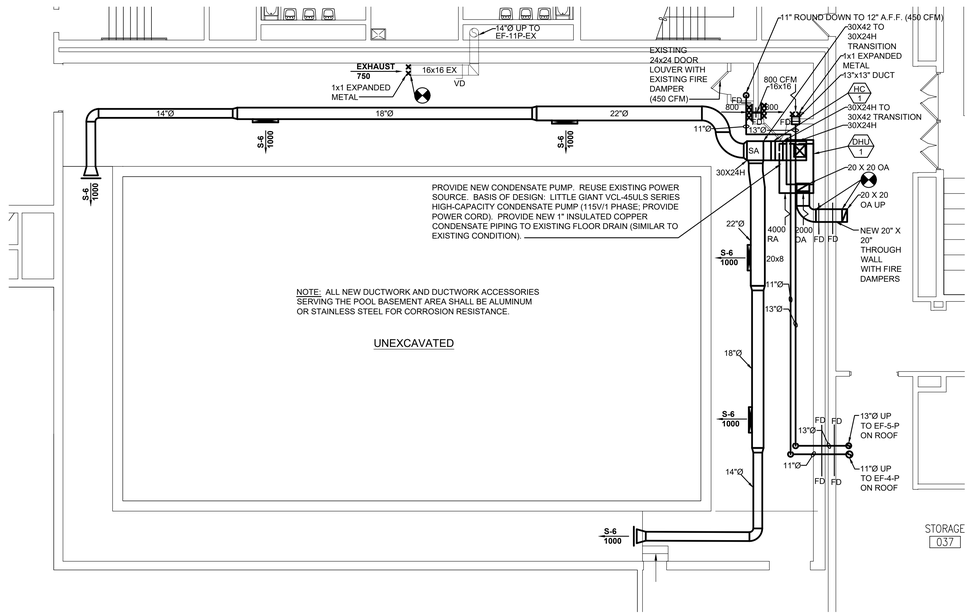
POOL BASEMENT DEMOLITION PLAN - DUCTWORK

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



POOL BASEMENT RENOVATION PLAN - PIPING

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



POOL BASEMENT RENOVATION PLAN - DUCTWORK

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

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REVISION NO:

ADDENDUM #1	08/18/25
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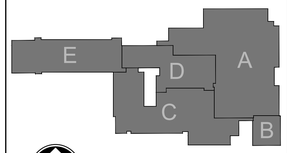
ADDENDUM #2	10/10/2025
• NYSED REVIEW COMMENTS	



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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

POOL BASMENT DEMOLITION AND RENOVATION PLANS

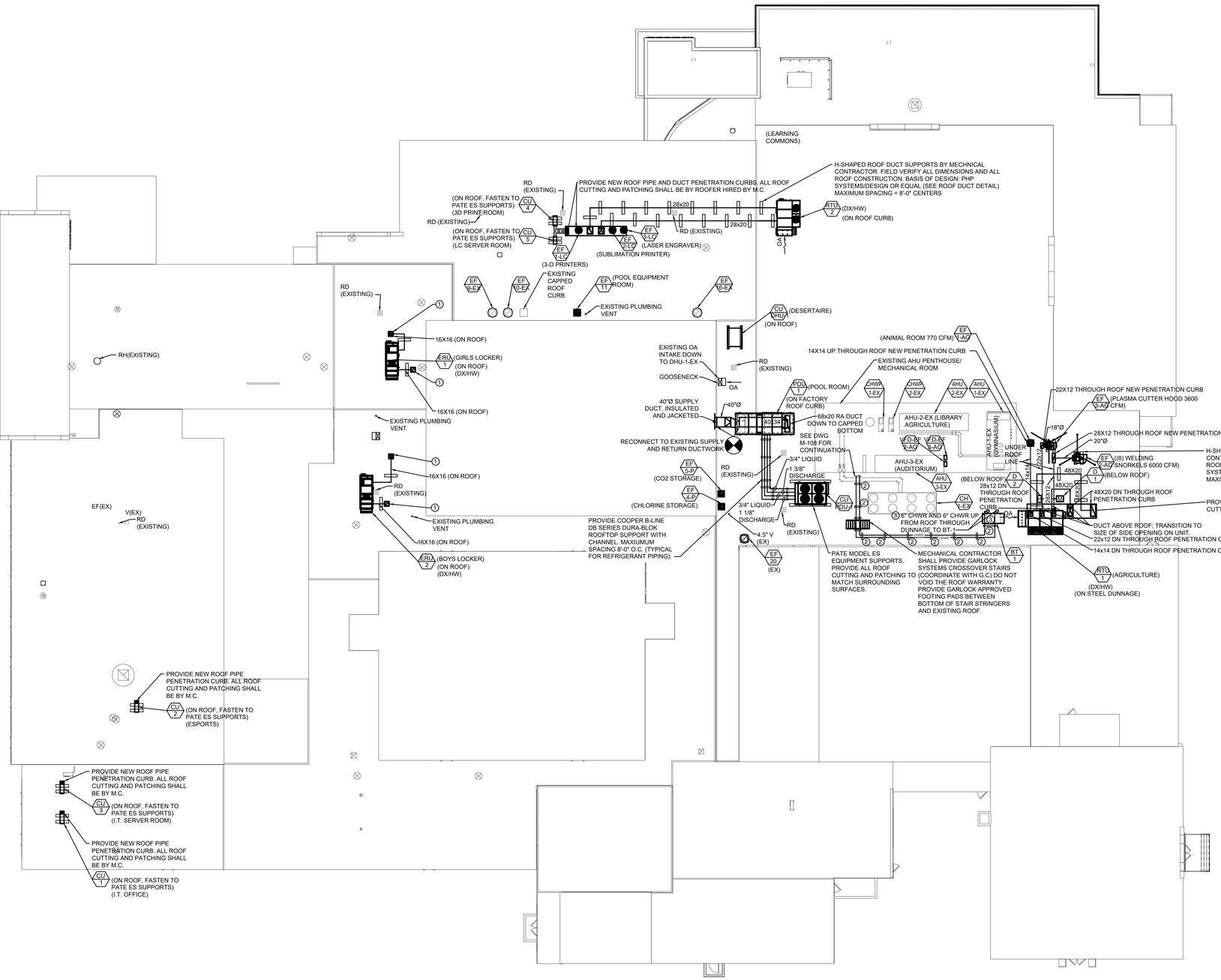
DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
06/27/2025	2025-005

DRAWING NO:

M-105

CAD FILE: 5005-M-105.DWG PLOT DATE: 11/11/2025

J:\2025-005 Afton CSD 2024 Capital Project__CAD\eng\5005-M-105.dwg, 11/11/2025 8:56:54 AM, _DWG To PDF.pc3



ROOF DUCTWORK NOTES:

1. PROVIDE ALL ROOF DUCT AND PIPE PENETRATIONS IN A NEW ROOF CURB.
2. ROOF PENETRATION CURBS: DO NOT PROVIDE A BEAD OF SEALANT BETWEEN DISSIMILAR MATERIALS LIKE EPDM AND ALUMINUM WHICH WILL EXPAND AND CONTRACT AT DIFFERENT RATES. THE EPDM RUBBER SHOULD CONTINUE AND RUN OVER THE TOP OF AND DOWN THE SIDE WALLS OF THE ROOF CURB FOR A WATERPROOF AND WEATHERPROOF SEAL. A CONTINUOUS LAYER OF EPDM SHOULD COVER EACH DUCT OR PIPE PENETRATION AND THE ALUMINUM CURB CAP SHOULD BE INSTALLED ON TOP OF THAT. ALL SIDE DISCHARGES AND SIDE INLETS FOR RTU'S SHOULD HAVE FLASHING ON (4) SIDES.

ROOF PLAN

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

ROOF CUTTING AND PATCHING:

1. THE MECHANICAL CONTRACTOR SHALL HIRE A ROOFING CONTRACTOR TO PROVIDE ALL CUTTING AND PATCHING ON ROOF WITHOUT VOIDING THE ROOF WARRANTY. THIS INCLUDES, BUT IS NOT LIMITED TO NEW ROOF CURBS, NEW ROOF EQUIPMENT SUPPORTS, NEW DUCT PENETRATION CURBS, NEW PIPE PENETRATION CURBS, AND EXTRA ROOFING MATERIAL UNDER NON-INVASIVE PIPE SUPPORTS. FIELD SURVEY THE SITE FOR ALL EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.

ADD ALTERNATES:

THE FOLLOWING SHALL BE ADD ALTERNATES TO THE BASE BID:

1. PDU-1, CU-PDU-1 AND ALL ASSOCIATED DUCTWORK, PIPING, AND CONTROLS.
2. THE CORRECTION OF LOW FLOW IN ROOFTOP CHILLER CH-1.

KEYED NOTES:

1. PROVIDE NEW ROOF PENETRATION CURB ON ROOF.
2. ALL CHILLED WATER PIPING SUPPORTS SHALL BE LOCATED DIRECTLY OVER ROOF JOISTS BELOW. MAXIMUM SPACING SHALL BE 8'-0" O.C.
3. SUPPORT BOTTOM OF VERTICAL AND HORIZONTAL PIPING NEAR BT-1 ON ROOF WITH CLEVIS HANGERS HUNG FROM THE NEW STEEL DUNNAGE. PROVIDE MISCELLANEOUS STEEL WELDED TO STEEL DUNNAGE AS REQUIRED.

GENERAL NOTES

PIPING NOTE: SIZE, TRAP, AND INSULATE ALL REFRIGERANT PIPING PER ALL MANUFACTURER RECOMMENDATIONS

AIR BALANCING NOTES

1. TAB CONTRACTOR AND CONTROLS CONTRACTOR SHALL WORK TOGETHER (CLOSELY AND DILIGENTLY, SIDE BY SIDE) TO ACHIEVE THE FOLLOWING AT AHU-2-EX (INCLUDING THE ASSOCIATED RETURN/RELIEF AIR CFM'S IN THE PENTHOUSE):

   PROVIDE THE FOLLOWING NEW CONDITIONS/AIRFLOWS THROUGH BALANCING AND CONTROLS SEQUENCE OF OPERATIONS MODIFICATIONS.

   AHU-2-EX (EXISTING CONDITIONS)
   SA CFM = 12,500 CFM
   OA CFM = 3,700 CFM

   AHU-2-EX (NEW CONDITIONS)
   SA CFM = 10,180 CFM
   OA CFM = 4,111 CFM

PIPING SPECIFICATION:

1.1 HEATING WATER, CHILLED WATER, CONDENSER WATER, GLYCOL PIPING ABOVE GRADE

A. STEEL PIPE: ASTM A53, TYPE ERW, GRADE B, SCHEDULE 40 FOR 10" AND BELOW, STANDARD (.375" WALL) FOR 12" AND ABOVE (BOTH FOR WELDED JOINTS). USE ASTM A53 OR 120, TYPE S, GRADE B, SCHEDULE 40 FOR SCREWED JOINTS. IPS GROOVED PIPING SYSTEMS ARE ACCEPTABLE ALTERNATES ACCORDING TO 2.5 HEREIN.

1. FITTINGS: ANSI/ASTM B16.3, MALLEABLE IRON CLASS 150 OR ASTM A234, WROUGHT STEEL WELDING TYPE FITTINGS, SCHEDULE 40.
2. JOINTS: UP TO 2 INCH, SCREWED; 2-1/2 INCH AND UP, WELDED. UTILIZE FITTINGS AS SPECIFIED ABOVE.

B. COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN, 2-1/2" AND BELOW.

1. FITTINGS: ANSI/ASME B16.23 CAST BRASS OR ANSI/ASME B16.29 SOLDER WROUGHT COPPER.
2. JOINTS: ASTM B32, SOLDER, GRADE 95TA. UTILIZE FITTINGS AS SPECIFIED ABOVE.

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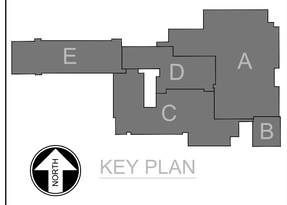
New York • Pennsylvania

REVISION NO:

ADDENDUM #1	08/18/25
• NYSED REVIEW COMMENTS	
ADDENDUM #3	10/29/25
• NYSED REVIEW COMMENTS	



KEY PLAN

BID DOCUMENTS

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

ROOF PLAN

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

M-106

CAD FILE: 5005-M-106.DWG PLOT DATE: 11/11/2025

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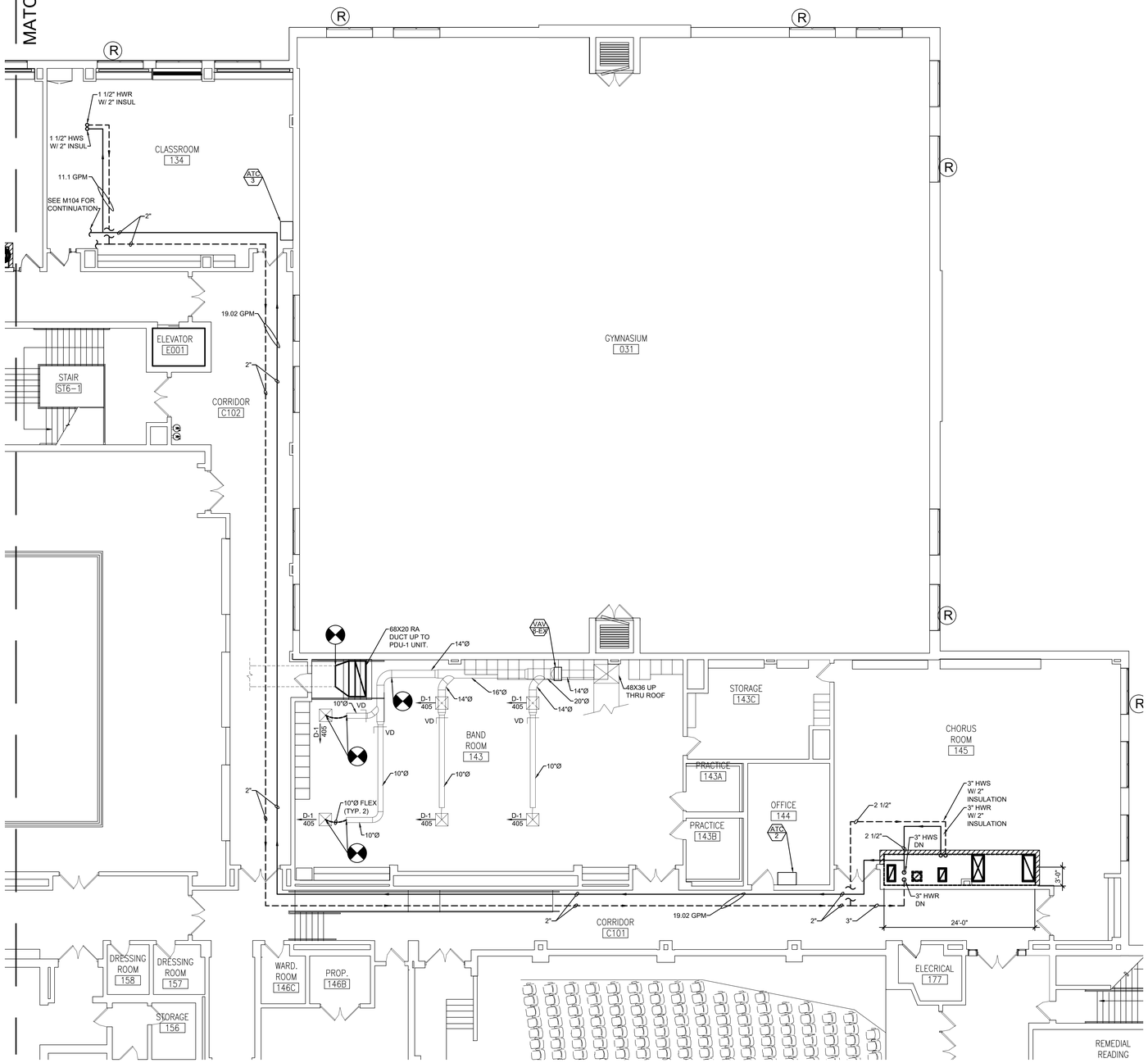
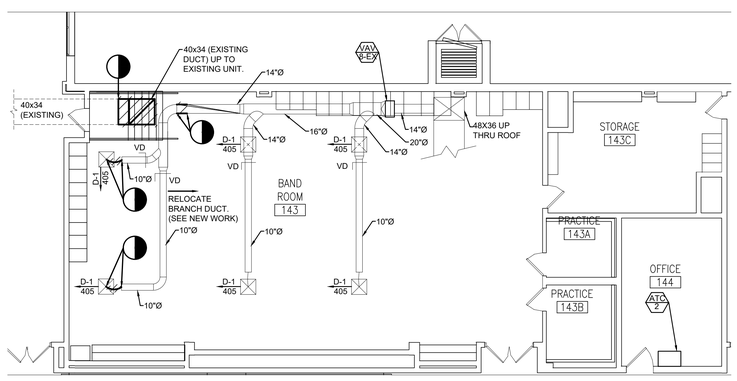


FIRST FLOOR - HWS&R PIPE ROUTING

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



FIRST FLOOR - PDU-1-EXISTING DUCT DEMO PLAN

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

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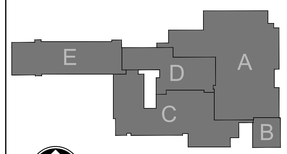

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

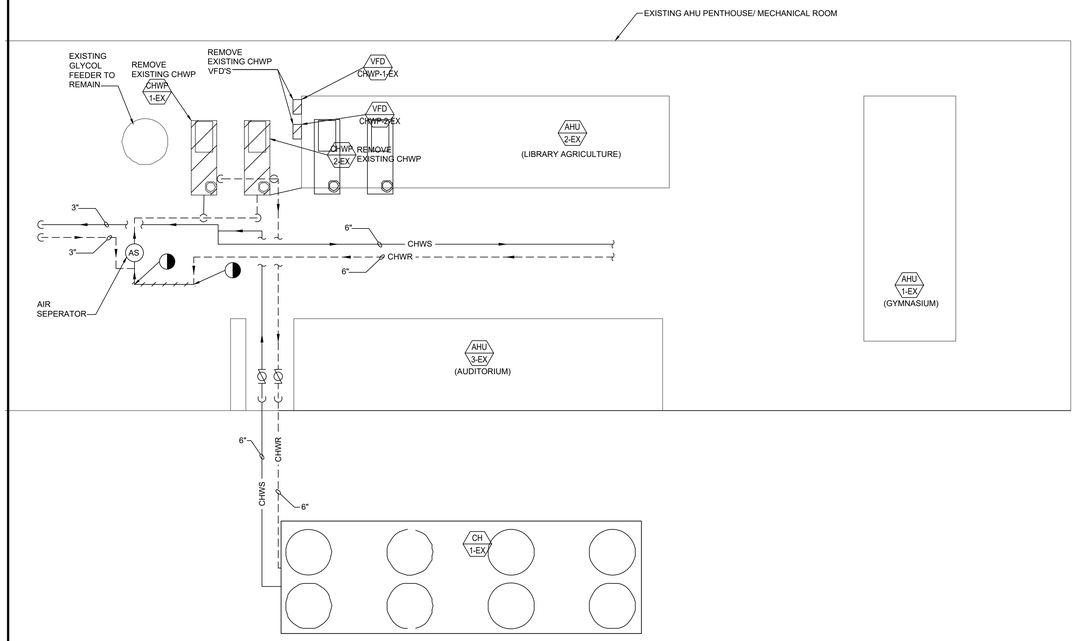
FIRST FLOOR HOT WATER DISTRUBUTION PLAN

DRAWN BY:	CHECKED BY:
F.R.G.	M.P.
DATE:	PROJECT NO:
06/27/2025	2025-005

DRAWING NO:

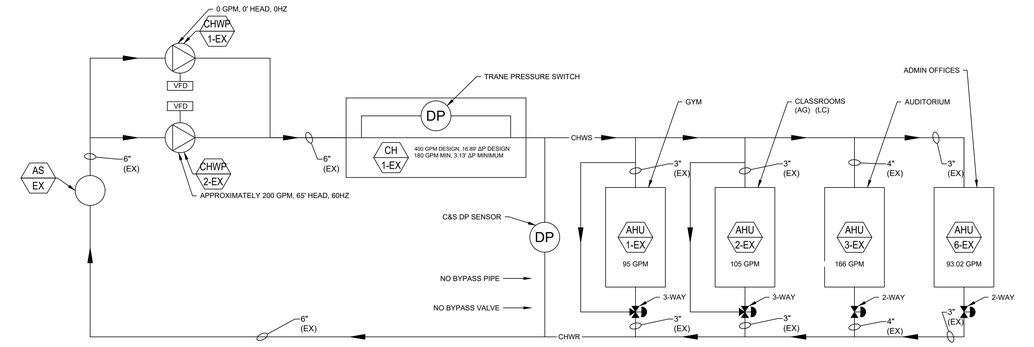
M-107

CAD FILE: 5005-M-107.DWG PLOT DATE: 11/11/2025



AHU PENTHOUSE PIPING DEMO PLAN

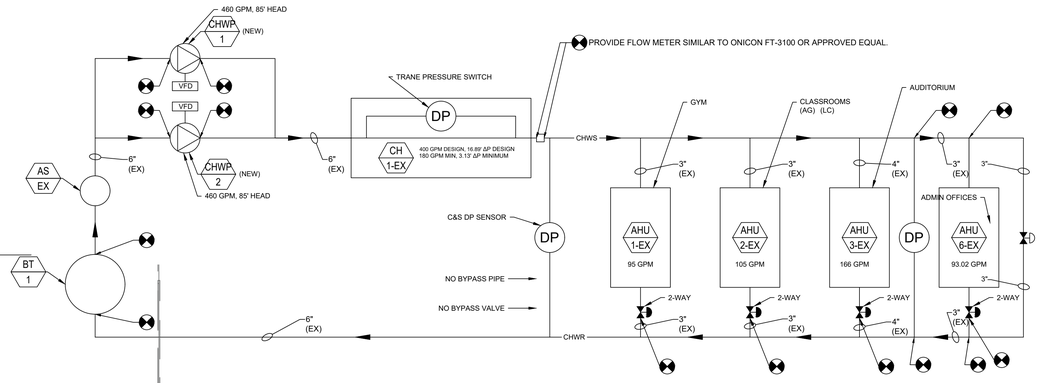
SCALE: 1/4" = 1'-0"



CH-1-EX: EXISTING CHILLED WATER PIPING SCHEMATIC

NOT TO SCALE

NOTES: 1. FLUID IS 30% JEMCOOL PROPYLENE GLYCOL.
2. THERE IS NO BUFFER TANK ON THIS CHILLER WATER SYSTEM.



CH-1-EX: NEW CHILLED WATER PIPING SCHEMATIC

NOT TO SCALE

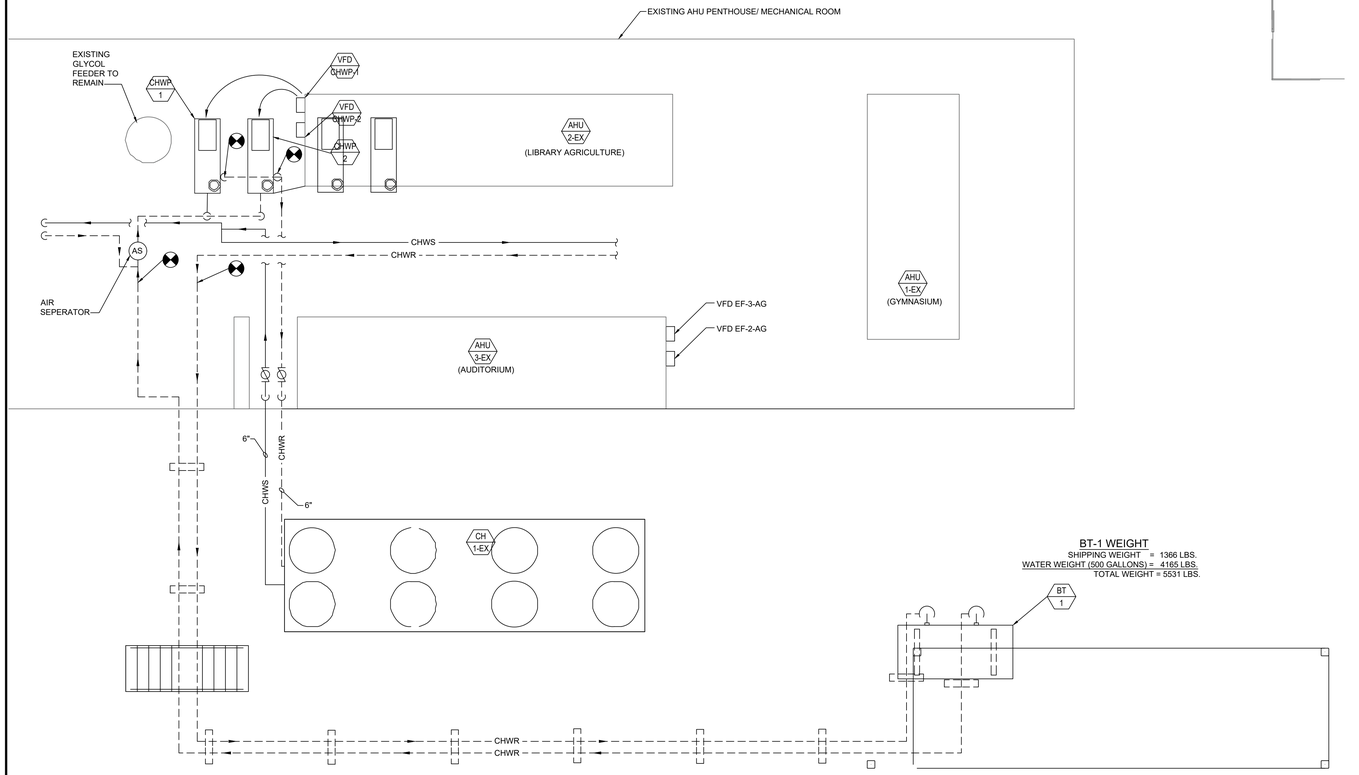
NOTES: 1. FLUID IS 30% JEMCOOL PROPYLENE GLYCOL.
2. A BUFFER TANK HAS BEEN ADDED TO THIS CHILLER WATER SYSTEM.

CH-1-EX CONTROLS SEQUENCE MODIFICATIONS

1. CONTROLS CONTRACTOR IS CURRENTLY MODIFYING THE CONTROLS SEQUENCE OF OPERATION TO OPERATE CHWP-1-EX AND CHWP-2-EX IN PARALLEL TO ACHIEVE MINIMUM FLOW IN CH-1-EX AT ALL TIMES.

IF THE CONTROLS MODIFICATIONS SHOWN ABOVE ARE NOT SUCCESSFUL:

1. MC SHALL PROVIDE NEW PUMPS AND NEW VFD'S AS SPECIFIED TO REPLACE CHWP-1-EX AND CHWP-2-EX, WHICH ARE NOT SIZED FOR THE CURRENT CONNECTED GPM FLOW RATE. CONTROLS SEQUENCE SHALL BE AS NOTED BELOW. ADDITIONALLY, MC SHALL PROVIDE NEW BUFFER TANK BT-1 AND ASSOCIATED OUTDOOR CHILLED WATER PIPING. CHILLER CH-1-EX IS CURRENTLY HAVING ISSUES DUE TO SHORT CYCLING. THE BUFFER TANK WILL ADD VOLUME AND RUN-TIME TO THIS SMALL VOLUME, LARGE TONNAGE CHILLED WATER SYSTEM.
2. PROVIDE A DIFFERENTIAL PRESSURE SENSOR AT THE END OF THE LOOP AND ALL ASSOCIATED CONTROLS AND WIRING.
3. THE VFDS ON THE PRIMARY PUMPS MODULATE PUMP SPEED TO MAINTAIN A CONSTANT DIFFERENTIAL PRESSURE SETPOINT.
4. PROVIDE 2-WAY VALVE FOR AHU-1-EX AND ASSOCIATED PIPING MODIFICATIONS.
5. PROVIDE 2-WAY VALVE FOR AHU-2-EX AND ASSOCIATED PIPING MODIFICATIIONS.
6. MC SHALL PROVIDE ALL CONTROLS AND ASSOCIATED TROUBLESHOOTING LABOR AS REQUIRED TO MODIFY AND CORRECT THE CHILLER CONTROLS ISSUES (AT NO ADDITIONAL COST TO THE OWNER).



AHU PENTHOUSE PIPING RENO PLAN

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

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ADDENDUM #1	08/18/25

• NYSED REVIEW COMMENTS

KEY PLAN

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SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

AHU PENTHOUSE PIPING DEMO AND RENO PLANS

DRAWN BY:	CHECKED BY:
F.G.	M.P.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

M-108

CAD FILE: 5005-M-108.DWG PLOT DATE: 11/11/2025

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CWB Series

CEMLINE CORPORATION

Chilled Water Buffer Tanks

CEMLINE CORPORATION
P.O. BOX 55 CHESWICK, PENNSYLVANIA 15024
Phone: (724) 274-5430 FAX: (724) 274-5448
www.cemline.com

Cemline® Chilled Water Buffer Tank
Standard Equipment, Available Options

Cemline Chilled Water Buffer Tanks (CWB) are designed to be used with chillers which do not have water volumes of sufficient size in relation to the chiller. The insufficiently sized systems do not have enough buffer capacity for the chilled water causing poor temperature control, erratic system operation, and excessive compressor cycling. The CWB solves this problem by adding volume to buffer the system. The CWB reduces the rate of change of the return water temperature.

Chillers are designed to be used in systems with a minimum water volume. The minimum water volume is based upon the chiller manufacturer requirements, typically 3 to 6 gallons per ton for typical air conditioning applications or 6 to 10 gallons per ton when temperature accuracy is critical. When chiller systems are properly sized, the chiller compressor will not short cycle. Without the proper amount of system water, the source temperature will be reached quickly and the compressor will shut off. Many chiller compressors can only start 3 times per hour. If the compressor is off and there is a demand for chilled water, the demand can not be met because the compressor cannot turn back on. This causes very unsatisfied people within the building who cannot have the required cooling. Insufficiently sized system problems can cause excessive compressor cycling, poor temperature control and erratic system operations.

Standard Equipment

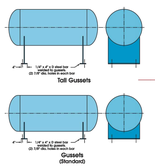
- Tank - A.S.M.E. (125 psi @ 400° F)
- ½" flexible, elastomeric thermal insulation black in color (Thicknesses of ¾", 1", 1½", 2" available)
- Legs for vertical installation
- Internal Baffle
- Air Vent

Available Options

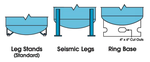
- Seismic zone 4 angle legs (4 qty)
- Outdoor exterior coating. White in color and weather resistant to UV and ozone.
- Outdoor stucco-embossed aluminum jacket (0.016" thick, 26 GA)

Support Options | Connection Location Options

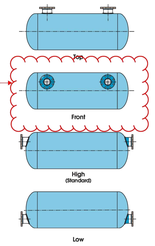
CWB Horizontal Tanks



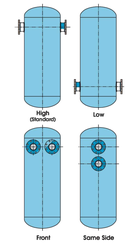
CWB Vertical Tanks



CWB Horizontal Tanks



CWB Vertical Tanks

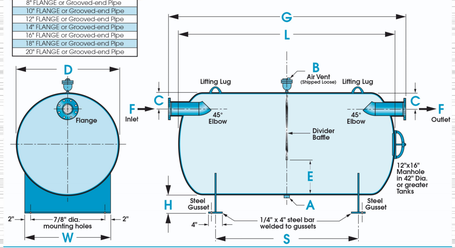


Chilled Water Buffer Tank
Piping Diagrams

Chilled Water Buffer Tank
Horizontal Dimensions

Inlet/Outlet Size Opening Chart

Inlet & Outlet Openings "F"
1" NPT
1.5" NPT
2" NPT or Grooved-end Pipe
2.5" NPT or Grooved-end Pipe
3" FLANGE or Grooved-end Pipe
4" FLANGE or Grooved-end Pipe
6" FLANGE or Grooved-end Pipe
8" FLANGE or Grooved-end Pipe
10" FLANGE or Grooved-end Pipe
12" FLANGE or Grooved-end Pipe
14" FLANGE or Grooved-end Pipe
16" FLANGE or Grooved-end Pipe
18" FLANGE or Grooved-end Pipe
20" FLANGE or Grooved-end Pipe

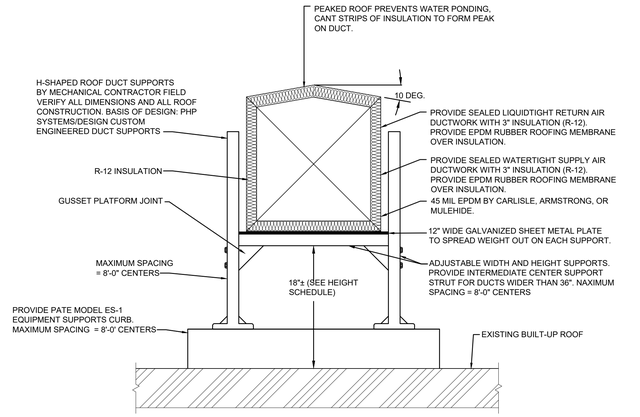


Tank Volume	Diameter "D"	Length "L"	Drain "A"	Vent "B"	Distance to Center Opening "C"	"E"	"G"	Stand Height "H"	Gusset Width "W"	Center to Center Gusset "S"
120	24"	60"	1"	3/4"	5"	8"	70"	8"	22"	30"
200	30"	72"	1"	3/4"	5"	10"	82"	8"	26"	48"
300	36"	72"	1"	3/4"	5"	12"	82"	8"	32"	42"
500	42"	90"	1 1/2"	3/4"	6"	14"	100"	8"	36"	60"
680	48"	96"	1 1/2"	3/4"	6"	16"	106"	8"	42"	66"
850	54"	90"	1 1/2"	3/4"	6"	18"	106"	8"	46"	56"
1040	60"	96"	1 1/2"	3/4"	6"	20"	106"	8"	52"	56"

Horizontal Model Code

H ____ CWB ____ — ____ — ____ — ____ — ____

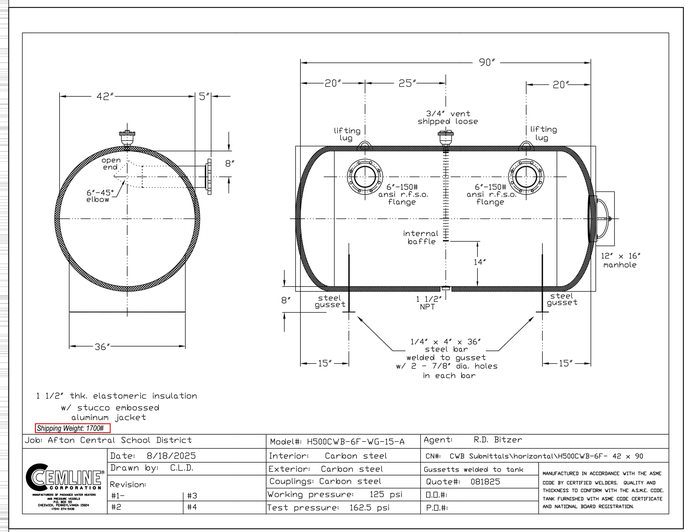
- GALLON CAPACITY
- OPENING SIZE
- CHANGE FITS: F = Flanged; G = Groove End Pipe
- SUPPORT: LS = Leg Stands
- INSULATION THICKNESS: 1/2" = 05; 3/4" = 075; 1" = 10; 1 1/2" = 15; 2" = 20
- LOCATION: O = Outdoor; A = Stucco Embossed Aluminum Jacket; N = NO INSULATION



ALL SUPPLY, RETURN, OUTDOOR AIR AND EXHAUST DUCTWORK: SEALED WATERTIGHT GALVANIZED STEEL, 4" PRESSURE CLASS.

TYPICAL ROOFTOP DUCTWORK SECTIONAL VIEW AND SUPPORT DETAIL

SCALE: NOT TO SCALE



Job: Afton Central School District		Model#: HS00CWB-6F-WG-15-A	Agent: R.D. Bitzer
Date: 8/18/2025		Interior: Carbon steel	CN#: CWB Submittals\horizontal\HS00CWB-6F- 42 x 90
Drawn by: C.L.D.		Exterior: Carbon steel	Gussetts welded to tank
Revision:		Couplings: Carbon steel	Quote#: 081825
#1-	#3	Working pressure: 125 psi	□.□.#:
#2	#4	Test pressure: 162.5 psi	P.O.#:

MANUFACTURED IN ACCORDANCE WITH THE ASME CODE BY CERTIFIED WELDERS. QUALITY AND THICKNESS TO CONFORM WITH THE A.S.M.E. CODE. TANK FURNISHED WITH ASME CODE CERTIFICATE AND NATIONAL BOARD REGISTRATION.

CEMLINE CORPORATION — ISO 9001:2015 REGISTERED QUALITY SYSTEM — 100 PEARSON DRIVE — CHESWICK, PENNSYLVANIA 15024 — (724) 274-5430

BT-1 SPECIFICATION:

1. 500 GALLON TANK.
2. OUTDOOR WITH STUCCO - EMBOSSED ALUMINUM JACKET (0.016" THICK, 26 GA)
3. FACTORY APPLIED FLEXIBLE ELASTOMERIC THERMAL INSULATION--2" THICK.
4. 6" FLANGED CONNECTIONS FOR FULLY WELDED STEEL CONNECTIONS.
5. FLUID = 30% JEMCOOL PROPYLENE GLYCOL
6. FRONT CONNECTIONS ON A CWB HORIZONTAL TANK WITH STANDARD GUSSETS.
7. BT-1 IS 42" DIAMETER AND 90" LONG.
8. MC SHALL COORDINATE ALL DIMENSIONS WITH STRUCTURAL STEEL DUNNAGE SHOP DRAWINGS.
9. BT-1 SHALL BE RATED FOR OUTDOOR USE IN THE CLIMATE OF AFTON, NY
10. MOUNTING OF BT-1 SHALL BE OUTDOORS ON STEEL DUNNAGE (SEE M AND S DRAWINGS FOR MORE INFORMATION).

BUFFER TANK BT-1 DETAIL

SCALE: NOT TO SCALE

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architecture | engineering | interior design
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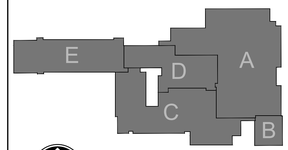
REVISION NO:		
0	ADDENDUM #1	08/18/25

• NYSED REVIEW COMMENTS



KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

MECHANICAL DETAILS

DRAWN BY:	CHECKED BY:
F.G.	M.P.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

M-109

CAD FILE: 5005-M-109.DWG PLOT DATE: 11/11/2025

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ROOFTOP AIR HANDLING UNIT SCHEDULE

(RTU)

MATCHLINE 'A'

TAG	TOTAL CFM (SIZING/ ACTUAL)	MINIMUM O/A CFM	MAXIMUM O/A CFM	SUPPLY FAN							EXHAUST FAN								EAT(°F)		LAT(°F)(COIL)		LAT(°F)(UNIT)		AMB	COOLING COIL					COMPRESSOR		COND. FANS			FILTER BANK				GAS HEATING SECTION						HEATING COIL	
				SIZE DIA.	QTY. MTRS.	QTY. VFD	HP EA.	BHP EA.	RPM EA.	ESP	TSP	SIZE DIA.	QTY. MTRS.	QTY. VFD	HP EA.	BHP EA.	RPM EA.	ESP	TSP	DB	WB	DB	WB	DB	WB	(°F)	NET TOTAL MBH	NET SENS MBH	ROWS	FINS/IN	AREA FT²	QTY	RLA (EACH)	QTY	HP (EACH)	RPM	EFF.	TYPE	QTY	FACE VEL FPM	TYPE	INPUT MBH	OUTPUT MBH	EAT(°F)	LAT(°F)	MBH	LAT(°F) DB
RTU-1	8,000/6500	455	6,500	-	1	1	-	9.29	2343	4.0	5.15	-	1	1	-	5.09	1936	2.0	-	95.0	76.0	51.9	51.4	100.7	69.1	-	600.5	338.8	6	12	60.5	-	-	-	-	-	30%	2" MERV 8	-	-	-	-	-	-	-	676	68.1
RTU-2	3,703/2705	640	2,150	-	1	1	-	3.66	2496	4.0	4.48	-	1	1	-	1.97	2013	2.0	-	89.2	72.4	52.6	52.2	101.7	69.8	-	221.4	134.3	6	14	30	-	-	-	-	-	30%	2" MERV 8	-	-	-	-	-	-	-	218.3	103.8

MATCHLINE 'A'

HEAT WHEEL			UNIT ELECTRICAL DATA				MFGR / MODEL	WEIGHT (LBS)	MIN. EER	AREA SERVED	REMARKS
QTY.	TOTAL MBH	HP EA.	VOLTAGE/ PHASE/HZ	FLA	MCA	MOCP					
N/A	N/A	N/A	208/3/60	269.6	281.0	300	TRANE/HORIZON (OAN Rev5, SIZE N648)	6455	8.5	AGRICULTURE	1,3
N/A	N/A	N/A	208/3/60	96.8	104.2	125	TRANE/HORIZON (OAD/N Rev6 - OADG/OANG, SIZE D020	3433	9.8	LEARNING COMMONS	1,2,4

NOTES
1. FINAL UNIT SELECTIONS ARE ON DETAIL SHEETS.
2. PROVIDE FACTORY ROOF CURB
3. PROVIDE UNIT ON STEEL DUNNAGE WITH SIDE SUPPLY AIR DISCHARGE AND SIDE RETURN INLET PLENUM CURB.
4. PROVIDE UNIT WITH SIDE SUPPLY AIR DISCHARGE AND SIDE RETURN OR EXHAUST AIR INLET.

APPROVED ALTERNATE MANUFACTURERS
- AAON
- DAIKIN
- YORK OR APPROVED EQUAL

DEHUMIDIFICATION UNIT SCHEDULE

(DHU)

TAG	SERVICE	TOTAL CFM	O/A CFM (MIN.)	AMBIENT DESIGN			SUPPLY FAN (EACH)								DX COOLING COIL					HOT GAS REHEAT COIL				FILTER						CONDENSER/COMPRESSOR						UNIT ELECTRICAL DATA				MFGR / MODEL	WEIGHT (LBS)	REMARKS
				COOLING		HEATING	TYPE	BHP	MOTOR HP	RPM	ESP	TSP	CFM	QTY.	CAPACITY (MBH)		EDB (°F)	EWB (°F)	REFRIG.	CFM	EAT (°F)	LAT (°F)	CAPACITY MBH	TYPE	FACE AREA (SQ.FT.)	CLEAN APD (IN H2O)	EFFICIENCY	FACE VEL (FT/MIN)	FILTER QTY	FILTER SIZE	MBH	AMBIENT	COMPRESSOR		CONDENSER		CIRCUIT NO. 1 SUPPLY FAN MOTOR(S)						
				DB	WB	DB									TOTAL	SENSIBLE																	QTY	TYPE	FAN QTY.	SPEED	VOLT/PH/HZ	FLA	MCA	MOCP			
DHU-1	POOL MECHNAICAL ROOM	6000	2000	75.0	62.5	-	-	-	5.0	-	1.0	1.72	6000	1	163	109.93	75.0	62.5	R-454B	-	-	-	-	4" MERV 8 FILTER	3.472	-	MERV 8	-	4	20X25	-	100*	1	SCROLL	2	-	208V/3/60	-	-	-	DESERT AIRE / LW15	2050	-

DEHUMIDIFICATION UNIT NOTES:

1. SPECIFIED UNIT DIMENSIONS, ACCESS LOCATIONS, CAPACITIES, AND WEIGHT SHALL NOT DEVIATE FROM SPECIFIED UNIT WITHOUT APPROVAL FROM THE ENGINEER.
2. PROVIDE MANUFACTURER RECOMMENDED SERVICE CLEARANCES AT ALL ACCESS POINTS.
3. SEE DWG M-201 FOR DHU-1 CU
4. FLASH ALL ROOF DUCTWORK, SUPPORTS, PIPING, AND CONDUIT ROOFING PENETRATIONS IN ACCORDANCE WITH ROOFING MANUFACTURER REQUIREMENTS.
5. COORDINATE UNIT INTERNAL CONTROLS PLACEMENT WITH CONTROLS VENDOR.
6. 4" MERV 8 PRE-FILTERS.
7. ALL PANELS CONSTRUCTED WITH 3" FOAM
8. 120V/1 PHASE / 60 HZ, 20 AMPS FOR LIGHTS
9. PROVIDE RETURN AND SUPPLY FAN VFD'S.
10. PROVIDE A UL 508 LISTED WATER LEVEL DETECTION DEVICE THAT WILL SHUT OFF THE EQUIPMENT IN THE EVENT OF DRAIN BLOCKAGE. PROVIDE UNIT WITH A BUILT-IN DRAIN SENSOR TO SHUT OFF THE INDOOR UNIT IF A DRAIN IS CLOGGED OR IN THE EVENT OF PUMP MALFUNCTION.

APPROVED ALTERNATE MANUFACTURERS
- CDI
- BRY-AIR
- AIRWATER GREEN OR APPROVED EQUAL

ENERGY RECOVERY UNIT SCHEDULE

(ERU)

MATCH LINE "A"

TAG	SERVICE	TOTAL CFM	O/A CFM (MIN.)	AMBIENT DESIGN			SUPPLY FAN (EACH)								RETURN FAN (EACH)								DX COOLING COIL														HOT WATER REHEAT COIL			
				COOLING		HEATING	TYPE	BHP	MOTOR HP	RPM	ESP	TSP	CFM (EA.)	QTY.	TYPE	BHP	MOTOR HP	RPM	ESP	TSP	CFM (EA.)	QTY.	NET CAPACITY (MBH)		COIL EDB (°F)	COIL EWB (°F)	COIL LDB (°F)	COIL LWB (°F)	APD (IN.WG.)	REFRIG.	FACE AREA SQFT.	FACE VELOCITY (FT/MIN)	ROWS	FINS/FT.	CFM	EAT (°F)	LAT (°F)	CAPACITY MBH
				DB	WB	DB																	TOTAL	SENSIBLE																
ERU-1	GIRLS LOCKER ROOM	1,400	1,400	-	-	-	-	1.06	-	2290	2.0	3.34	1,400	1	-	1.16	-	2316	2.0	3.10	1,400	1	77.8	47.4	79.7	66.7	46.1	45.9	0.12	R-454B	6.79	206	4	168	-	52.8	103.6	77.7
ERU-2	BOYS LOCKER ROOM	1,400	1,400	-	-	-	-	1.06	-	2290	2.0	3.34	1,400	1	-	1.16	-	2316	2.0	3.10	1,400	1	77.8	47.4	79.7	66.7	46.1	45.9	0.12	R-454B	6.79	206	4	168	-	52.8	103.6	77.7

MATCH LINE "A"

ENERGY RECOVERY UNIT SCHEDULE (CONTINUED)

(ERU)

PRE FILTER							CONDENSER/COMPRESSOR						UNIT ELECTRICAL DATA				MFGR / MODEL	WEIGHT (LBS)	REMARKS
TYPE	FACE AREA (SQ.FT.)	CLEAN APD (IN H2O)	EFFICIENCY	FACE VEL (FT/MIN)	FILTER QTY	FILTER SIZE	MBH	AMBIENT	COMPRESSOR		CONDENSER		CIRCUIT NO. 1 SUPPLY FAN MOTOR(S)						
									QTY	TYPE	FAN QTY.	SPEED	VOLTAGE	FLA	MCA	MOCP			
2" PLEATED	-	-	MERV 8	-	2	-	-	-	1	SCROLL	1	-	208V/3 PHASE	42.9	49.3	70	TRANE / HORIZON (OAB REV5 SIZE B096)	1979	SEE NOTES
2" PLEATED	-	-	MERV 8	-	2	-	-	-	1	SCROLL	1	-	208V/3 PHASE	42.9	49.3	70	TRANE / HORIZON (OAB REV5 SIZE B096)	1979	SEE NOTES

ENERGY RECOVERY UNIT NOTES:

1. SPECIFIED UNIT DIMENSIONS, ACCESS LOCATIONS, CAPACITIES, AND WEIGHT SHALL NOT DEVIATE FROM SPECIFIED UNIT WITHOUT APPROVAL FROM THE ENGINEER.
2. PROVIDE MANUFACTURER RECOMMENDED SERVICE CLEARANCES AT ALL ACCESS POINTS.
3. FLASH ALL ROOF DUCTWORK, SUPPORTS, PIPING, AND CONDUIT ROOFING PENETRATIONS IN ACCORDANCE WITH ROOFING MANUFACTURER REQUIREMENTS.
4. COORDINATE UNIT INTERNAL CONTROLS PLACEMENT WITH CONTROLS VENDOR.
5. 2" MERV 8 PRE-FILTERS.
6. ALL PANELS CONSTRUCTED WITH 3" FOAM
7. 120V/1 PHASE / 60 HZ, 20 AMPS FOR LIGHTS
8. PROVIDE RETURN AND SUPPLY FAN VFD'S.

APPROVED ALTERNATE MANUFACTURERS
- AAON
- DAIKIN
- YORK OR APPROVED EQUAL

DEHUMIDIFICATION UNIT CONDENSER SCHEDULE

(CU)

OUTDOOR CONDENSING UNIT							
TAG	MAKE	MODEL	MOPD	FLA	MCA	ELECTRICAL	REMARKS /ACCESSORIES
CU-DHU-1	DESERT AIRE	RCDB3VPNN-30414PNNA	12.0	2x4.3	9.7	208V / 3ϕ / 60 HZ	1, 2, 3, 4, 5, 6,7, 8, 9

NOTES:
1. E.C SHALL PROVIDE INDOOR UNIT AND OUTDOOR CONDENSING UNIT WITH MOTOR STARTER AND DISCONNECT SWITCH.
2. PROVIDE ALL UNITS WITH SINGLE POINT OF POWER CONNECTION. PROVIDE WIND BAFFLES.
3. PROVIDE OUTDOOR UNITS WITH ANTI-RECYCLE TIMERS.
4. PROVIDE UNIT WITH LOW AMBIENT CONTROL (-40°F).
5. PROVIDE CONDENSING UNITS ON "PATE" EQUIPMENT SUPPORTS. M.C. SHALL PROVIDE ALL ROOF CUTTING/PATCHING WITHOUT VOIDING THE ROOF WARRANTY.
6. THE TEMPERATURE SET-POINT FOR THIS ROOM SHALL BE 75 DEGREES F (ADJUSTABLE)
7. PROVIDE UNIT WITH A SEPARATE CONDENSATE PUMP (BASIS OF DESIGN: LITTLE GIANT) WHICH PLUGS INTO A RECEPTACLE PROVIDED BY THE E.C., PROVIDE UNIT WITH A HIGH PERFORMANCE DRAIN.
8. PROVIDE WALL-MOUNTED MICROPROCESSOR CONTROL WHICH SHALL MONITOR SPACE TEMPERATURE AND HUMIDITY AND SEND AN ALARM TO THE DDC PANEL IF THE TEMPERATURE OR HUMIDITY IN THE ROOM GOES TO HIGH OR LOW (OUT OF RANGE). PROVIDE ALL CONTROLS, WIRING, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE CONTROLLED BY THE UNIT MANUFACTURER'S SPACE THERMOSTAT. THE BMS CONTRACTOR SHALL INSTALL AND WIRE THERMOSTAT. THE BMS CONTRACTOR SHALL PROVIDE THE LOW VOLTAGE CONTROL INTERLOCK WIRING BETWEEN INDOOR AND OUTDOOR UNITS. THE BMS CONTRACTOR SHALL WIRE THE UNIT MANUFACTURER PROVIDED REMOTE ALARM CONTACT TO THE BMS. THE BMS SHALL MONITOR THE SPACE TEMPERATURE IN EACH ALARMING DURING ABNORMAL CONDITIONS. CONSULT OWNER FOR ALARM PARAMETERS. THE SYSTEM SHALL BE CONTROLLED FROM THE DDC CONTROLLER AT EACH UNIT. IT SHALL PROVIDE ALL CONTROL FUNCTIONS.
9. PROVIDE WIND BAFFLES AND ADVANCED WIND BAFFLES FOR LOW AMBIENT COOLING DOWN TO -40°F OUTDOORS.

APPROVED ALTERNATE MANUFACTURERS
- CDI
- BRY-AIR
- AIRWATER GREEN OR APPROVED EQUAL

MECHANICAL / ELECTRICAL EQUIPMENT CONNECTIONS SCHEDULE

EQUIPMENT / TAG	DISCONNECT		STARTER		NOTES
	FURNISHED BY	INSTALLED BY	FURNISHED BY	INSTALLED BY	
EF-1-LC (3-D PRINTING)	M.C.	M.C.	M.C.	M.C.	1 2
EF-2-LC (SUBLIMATION PRINTER)	M.C.	M.C.	M.C.	M.C.	1 2
EF-3-LC (LASER ENGRAVER)	M.C.	M.C.	M.C.	M.C.	1 2
EF-1-(AG) ANIMAL	M.C.	M.C.	M.C.	M.C.	1 2
EF-2 - (AG) WELDING	M.C.	M.C.	M.C.	M.C.	1 2
EF-3-(AG) PLASMA	M.C.	M.C.	M.C.	M.C.	1 2
EF-4-P (CHLORINE STORAGE)	M.C.	M.C.	M.C.	M.C.	1 2
EF-5-P (CO2 STORAGE)	M.C.	M.C.	M.C.	M.C.	1 2
EF-11-P	M.C.	M.C.	M.C.	M.C.	1 2
SC-1, CU-1 (IT OFFICE)	E.C.	E.C.	M.C.	M.C.	1 2
SC-2, CU-2 (E-SPORTS)	E.C.	E.C.	M.C.	M.C.	1 2
SC-3, CU-3 (IT SERVER ROOM)	E.C.	E.C.	M.C.	M.C.	1 2
SC-4, CU-4 (3D PRINTING ROOM)	E.C.	E.C.	M.C.	M.C.	1 2
SC-5, CU-5 (LC SERVER)	E.C.	E.C.	M.C.	M.C.	1 2
ERU-1 (GIRLS LOCKER ROOM)	M.C.	M.C.	M.C.	M.C.	1 2
ERU-2 (BOYS LOCKER ROOM)	M.C.	M.C.	M.C.	M.C.	1 2
RTU-1 (AG)	M.C.	M.C.	M.C.	M.C.	1 2
RTU-2 (LEARNING COMMONS)	M.C.	M.C.	M.C.	M.C.	1 2
ATC-1, ATC-2, ATC-3	M.C.	M.C.	M.C.	M.C.	1 2
DHU-1	M.C.	M.C.	M.C.	M.C.	1 2
CU-DHU-1	M.C.	M.C.	M.C.	M.C.	1 2
H-1, H-2	M.C.	M.C.	M.C.	M.C.	1 2
VAV-1-LC THROUGH VAV-7-LC VAV-1-AG THROUGH VAV-7-AG	E.C.	E.C.	N/A	N/A	1 2
VFD-EF-2-AG	M.C.	M.C.	M.C.	M.C.	1 2
VFD-EF-3-AG	M.C.	M.C.	M.C.	M.C.	1 2

M/E EQUIPMENT CONNECTIONS SCHEDULE NOTES:

1. THE MECHANICAL/ELECTRICAL EQUIPMENT CONNECTIONS SCHEDULE AND ACCOMPANYING NOTES ARE INTENDED TO CLEARLY DEFINE WHICH CONTRACTOR FURNISHES AND INSTALLS STARTERS AND DISCONNECTS AND SHALL BECOME PART OF THE SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER WIRING AND FINAL POWER CONNECTIONS. ALL CONTROL WIRING SHALL BE FURNISHED, INSTALLED AND FINAL CONNECTION BY THE TRADE SUPPLYING THE EQUIPMENT.
2. E.C. - ELECTRICAL CONTRACTOR
   M.C. - MECHANICAL CONTRACTOR (HVAC)
   P.C. - PLUMBING CONTRACTOR
   MFR - MANUFACTURER
   N/A - NOT APPLICABLE

HIGHLAND ASSOCIATES
architecture | engineering | interior design
102 Highland Avenue
Clarks Summit, PA 18411
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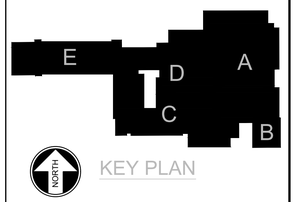
www.highlandassociates.com
New York • Pennsylvania

REVISION NO:

1	ADDENDUM #1	08/18/25

• NYSED REVIEW COMMENTS



KEY PLAN

BID DOCUMENTS
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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

MECHANICAL SCHEDULES

DRAWN BY:	CHECKED BY:
F.G.	M.P.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

M-200

CAD FILE: 5005-M-200.DWG PLOT DATE: 11/11/2025

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EXHAUST FAN SCHEDULE

TAG	DESIGN CFM	FAN SIZING CFM	ESP IN. H_2O	TYPE	FAN RPM	SONES	OPERATING HP	MOTOR HP	MOTOR RPM	VOLT-PH-HZ	FLA	BASIS OF DESIGN MFR / MODEL	SERVICE	DAMPER TYPE	REMARKS
EF-1AG	770	850	2.0	UPBLAST	2056	13.7	0.67	1.0	2160	115V-1 PH-60HZ	10.3	GREENHECK / CUE-160XP-VG	ANIMAL ROOM	ALL ALUMINUM GRAVITY/BACKDRAFT	1,3-7,9,11-18,23,43-45,66
EF-2AG	6000	6000	8.0	UTILITY SET	2428	42	10.14	15.0	1770	208V-3 PH-60HZ	-	GREENHECK / USF-20-5-B6-90-02-02	(8) WELDING SNORKELS	MOTORIZED	1-6,8,10,12,14-15,18,22-23,27-41,46,51-52,60-61
EF-3AG	3600	3600	6.0	UTILITY SET	2306	33	4.59	5.0	1770	208V-3 PH-60HZ	-	GREENHECK / USF-18-5-B6-75-02-02	PLASMA CUTTER HOOD	MOTORIZED	1-6,8,10,12,14-15,18,22-23,27-41,46,51-52,60-61
EF-1LC	600	750	2.0	DOWNBLAST	1924	17.3	0.51	0.75	2200	115V-1 PH-60HZ	10.5	GREENHECK / G-140HP-VG	3D PRINTER ROOM	ALL ALUMINUM GRAVITY/BACKDRAFT	1,3-7,9,12-13,15-18,23,34,44-45,47,66
EF-2LC	900	1000	2.0	DOWNBLAST	2080	18.7	0.66	0.75	2200	115V-1 PH-60HZ	10.5	GREENHECK / G-140HP-VG	SUBLIMATION PRINTER ROOM	ALL ALUMINUM GRAVITY/BACKDRAFT	1,3-7,9,12-13,15-18,23,34,44-45,47,66
EF-3LC	650	800	2.0	DOWNBLAST	1954	17.5	0.54	0.75	2200	115V-1 PH-60HZ	10.5	GREENHECK / G-140HP-VG	LASER ENGRAVER ROOM	ALL ALUMINUM GRAVITY/BACKDRAFT	1,3-7,9,12-13,15-18,23,34,44-45,47,66
EF-4P	450	450	2.0	UPBLAST	2425	11.9	0.38	0.5	2500	115V-1 PH-60HZ	6.6	GREENHECK / CUE-100HP-VG	POOL BASEMENT CHLORINE STORAGE	ALL ALUMINUM GRAVITY/BACKDRAFT	1,3-7,9,11-13,15-16,18,23,34,43-45,62-65,67
EF-5P	800	800	2.0	UPBLAST	2043	13.7	0.65	1.0	2160	115V-1 PH-60HZ	10.3	GREENHECK / CUE-160XP-VG	POOL BASEMENT CO2 STORAGE ROOM	ALL ALUMINUM GRAVITY/BACKDRAFT	1,3-7,9,11-18,23,34,43-45,62-64,66,67
EF-11P	750	750	1.5	UPBLAST	1784	10.9	0.44	1.0	2160	115V-1 PH-60HZ	10.3	GREENHECK / CUE-160XP-VG	POOL BASEMENT EQUIPMENT ROOM	ALL ALUMINUM GRAVITY/BACKDRAFT	1,3-7,9,11-18,23,34,43-45,62-64,66,67
EF-4	350	375	0.75	INLINE	1641	12.2	0.18	0.25	1725	115V-1 PH-60HZ	3.5	GREENHECK / SQ-98-VG	AIR COMPRESSOR ROOM	ALL ALUMINUM GRAVITY/BACKDRAFT	15-16,34,49,63-64,67-70

NOTES:
1. PROVIDE STATIC PRESSURE TAPS, LIFTING LUGS.
2. PROVIDE VERTICAL DISCHARGE NO LOSS STACK.
3. PROVIDE (4) LIFTING LUGS.
4. E.C. SHALL PROVIDE DISCONNECT SWITCH.
5. PROVIDE CURB MOUNTING AND CURB
6. PROVIDE FAN WITH A SPEED CONTROLLER AND DISCONNECT
7. STAINLESS STEEL BIRD AND INSECT SCREEN
8. PROVIDE DUCT SUPPORT AT 5'-0" FOR DUCTWORK ABOVE ROOF
9. PROVIDE ALUMINUM GRAVITY DAMPER GREENHECK EMV-11, GRAVITY OPERATED
10. PROVIDE MOTORIZED ISOLATION DAMPER GREENHECK SEVCD-33
11. ALUMINUM RUB RING
12. COATING Permatector, Concrete Gray-RAL 7023, Fan And Attached Acc
13. FOAM CURB SEAL (FACTORY APPLIED)
14. MOTOR WITH SHAFT GROUNDING
15. MOTOR MANUFACTURED IN USA ONLY
16. GREENHECK VARIGREEN DRIVE
17. STAINLESS STEEL FASTENERS
18. HIGH WIND RATED
19. MOTOR WITH THERMAL OVERLOAD
21. SHAFT SEAL
22. ACCESS DOOR - BOLTED
23. WHEEL - BACKWARD INCLINED
24. DRAIN CONNECTION - THREADED
25. BACKWARD INCLINED FLAT BLADE CENTRIFUGAL WHEEL
26. HIGH TEMP CURB SEAL
27. DRAIN CONNECTION - YES
28. MOTOR WITH CLASS B OR GREATER INSULATION
29. DIRECT MOUNT ISOLATORS, ISOLATOR-SPRING, RESTRAINED, 1 INCH, INDOOR / OUTDOOR USE, BASE COATING - N/A
30. CURB MOUNTED WITH PANEL
31. HOUSING - WELDED SCROLL
32. ARRANGEMENT - 4
33. DISCHARGE POSITION - BAU
34. UL LISTED FOR UL/CUL-705 - "POWER VENTILATORS"
35. INLET CONNECTION, SLIP FIT
36. OUTLET CONNECTION, SLIP FIT
37. MOTOR COVER - STEEL CONSTUCTION
38. FASTENERS - STANDARD
39. NEMA PREMIUM EFFICIENT MOTOR - MEETS NEMA TABLE 12-12
40. MOTOR VFD RATED
41. SWITCH - NEMA-3R, TOGGLE, FOR INDOOR OR OUTDOOR USE, MOUNTED & WIRED
42. EXTERNAL LIFTING/TIE DOWN POINTS - 4
43. ALUMINUM WHEEL
44. ALUMINUM HOUSING
45. CONTROL - DIAL FOR BALANCING
46. CENTRIFUGAL WHEEL
47. JUNCTION BOX MOUNTED & WIRED IN WEATHER-PROTECTED MOTOR COMPARTMENT
48. COATED WITH HI-PRO POLYESTER, CONCRETE GRAY-RAL 7023, Fan AND ATTACHED ACC
49. PROVIDE ALUMINUM GRAVITY DAMPER GREENHECK EM-10, GRAVITY OPERATED
50. WHEEL - BACKWARD CURVED
51. MOTOR WITH CSA APPROVAL
52. MOTOR WITH MINIMUM 40 DEGREE C AMBIENT TEMPERATURE
53. MOTOR VFD RATED WITHOUT SHAFT GROUNDING PROTECTION
54. EXTENDED MOTOR LEADS
55. COATING - PERMATECTOR, CONCRETE GRAY-RAL 7023, FAN AND ATTACHED ACCESSORIES, ALUMINUM PROP MILL FINISH
56. DIRECT MOUNT ISOLATORS, FIELD MOUNTED, ISOLATOR-SPRING, FREE STANDING, 1 INCH, INDOOR USE ONLY
57. MOUNTING SUPPORT - UNIVERSAL
58. INLET BELL, COATING-MATCH FAN
59. SEALED MOTOR BEARINGS OR COPPER EXTENDED LUBE LINES
60. CCW ROTATION CONFIGURATION
61. (BAU) BOTTOM ANGULAR UP DISCHARGE POSITION
62. NON-STICK COATED WHEEL
63. SWITCH, NEMA-3R, TOGGLE
64. JUNCTION BOX MOUNTED & WIRED
65. GPF-19 ROOF CURB
66. GPF-22 ROOF CURB
67. MOTOR - VARI-GREEN EC MOTOR
68. GALVANIZED HOUSING
69. ALUMINUM CENTRIFUGAL WHEEL
70. INSULATED HOUSING - 1 IN. THICK: FAN HOUSING

APPROVED ALTERNATE MANUFACTURERS
- LOREN COOK
- PENN BARRY
- TWIN CITY OR APPROVED EQUAL

SPLIT-SYSTEM AIR CONDITIONING UNIT SCHEDULE (REFRIGERANT = R-454B) (ALL HEAT PUMPS)

INDOOR CEILING OR EXPOSED UNIT												OUTDOOR CONDENSING UNIT							
TAG	MAKE	MODEL	AREA SERVED	TYPE	LOAD (TONS)	NOMINAL (TONS)	SA CFM	COOLING			MCA	ELECTRICAL	TAG	MAKE	MODEL	MOCP	SEER	MCA	ELECTRICAL	REMARKS /ACCESSORIES
								TOT MBH	E.A.T DB/WB	L.A.T DB/WB										
SC-1	TRANE	PLA-AE42NL	IT OFFICE	CEILING	2.6	3.55	740-1,200	42.5	75.0/62.5	-	-	208V / 230V	CU-1	TRANE	PUY-AK42NL	56.0	-	34.0	208V / 230V / 1ϕ / 60HZ	1, 2, 3, 4, 5, 6,7, 8, 9, 10,12,13
SC-2	TRANE	PLA-AE30NL	ESPORTS	CEILING	1.9	2.5	570-880	30.0	75.0/62.5	-	-	208V / 230V	CU-2	TRANE	PUY-AH30NL	37.0	-	22.0	208V / 230V / 1ϕ / 60HZ	1, 2, 3, 4, 5, 6,7, 8, 9, 10,12,13
SC-3	TRANE	PKA-AK36NL	IT SERVER ROOM (RM 138 EX)	EXPOSED	2.0	3.0	705-920	36.0	75.0/62.5	-	-	208V / 230V	CU-3	TRANE	PUY-AK36NL	56.0	-	34.0	208V / 230V / 1ϕ / 60HZ	1, 2, 3, 4, 5, 6,7, 8, 9, 10, 11,12,13
SC-4	TRANE	PLA-AE36NL	3D PRINTING ROOM	CEILING	2.3	3.0	670-1,200	36.0	75.0/62.5	-	-	208V / 230V	CU-4	TRANE	PUY-AK36NL	56.0	-	34.0	208V / 230V / 1ϕ / 60HZ	1, 2, 3, 4, 5, 6,7, 8, 9, 10,12,13
SC-5	TRANE	PKA-AL18NL	LC SERVER ROOM	EXPOSED	0.95	1.5	265-450	18.0	75.0/62.5	-	-	208V / 230V	CU-5	TRANE	PUY-AK18NL	27.0	-	16.0	208V / 230V / 1ϕ / 60HZ	1, 2, 3, 4, 5, 6,7, 8, 9, 10,12,13

NOTES:
1. INDOOR UNIT IS POWERED BY THE OUTDOOR UNIT ; 208V/230V
   E.C SHALL PROVIDE INDOOR UNIT AND OUTDOOR CONDENSING UNIT WITH MOTOR STARTER AND DISCONNECT SWITCH.
2. PROVIDE EACH SYSTEM HARD WIRED MITSUBISHI CONTROLLER WITH A 7-DAY PROGRAMMABLE THERMOSTAT AND ABILITY TO TIE INTO ATC SYSTEM.
3. PROVIDE ALL UNITS WITH SINGLE POINT OF POWER CONNECTION. PROVIDE WIND BAFFLES.
4. PROVIDE OUTDOOR UNITS WITH ANTI-RECYCLE TIMERS.
5. PROVIDE UNIT WITH LOW AMBIENT CONTROL (-40°F). PROVIDE A UL 508 LISTED WATER LEVEL DETECTION DEVICE THAT WILL SHUT OFF THE EQUIPMENT IN THE EVENT OF DRAIN BLOCKAGE.
6. PROVIDE CONDENSING UNITS ON "PATE" EQUIPMENT SUPPORTS. M.C. SHALL PROVIDE ALL ROOF CUTTING/PATCHING WITHOUT VOIDING THE ROOF WARRANTY.
7. THE TEMPERATURE SET-POINT FOR THIS ROOM SHALL BE 75 DEGREES F (ADJUSTABLE)
8. PROVIDE UNIT WITH A CONDENSATE PUMP WHICH PLUGS INTO THE TERMINAL STRIP WITHIN THE EVAPORATOR UNIT. PROVIDE UNIT WITH A HIGH PERFORMANCE DRAIN. PUMP WHICH LIFTS THE WATER UP TO 33 INCHES ABOVE THE UNIT.
9. PROVIDE UNIT WITH A BUILT-IN DRAIN SENSOR TO SHUT OFF THE INDOOR UNIT IF A DRAIN IS CLOGGED OR IN THE EVENT OF PUMP MALFUNCTION.
10. WHERE INDOOR SENSIBLE COOLER UNITS ARE SHOWN IN ROOMS WITH NO CEILINGS, PROVIDE UNIT HUNG FROM STRUCTURE WITH THREADED ROD.
11. PROVIDE UNIT CENTERED OVER THE ENTRY DOOR INTO THE ROOM.
12. PROVIDE WALL-MOUNTED MICROPROCESSOR CONTROL WHICH SHALL MONITOR SPACE TEMPERATURE AND HUMIDITY AND SEND AN ALARM TO THE DDC PANEL IF THE TEMPERATURE OR HUMIDITY IN THE ROOM GOES TO HIGH OR LOW (OUT OF RANGE). PROVIDE ALL CONTROLS, WIRING, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE CONTROLLED BY THE UNIT MANUFACTURER'S SPACE THERMOSTAT. THE BMS CONTRACTOR SHALL INSTALL AND WIRE THERMOSTAT. THE BMS CONTRACTOR SHALL PROVIDE THE LOW VOLTAGE CONTROL INTERLOCK WIRING BETWEEN INDOOR AND OUTDOOR UNITS. THE BMS CONTRACTOR SHALL WIRE THE UNIT MANUFACTURER PROVIDED REMOTE ALARM CONTACT TO THE BMS. THE BMS SHALL MONITOR THE SPACE TEMPERATURE IN EACH ALARMING DURING ABNORMAL CONDITIONS. CONSULT OWNER FOR ALARM PARAMETERS. THE SYSTEM SHALL BE CONTROLLED FROM THE DDC CONTROLLER AT EACH UNIT. IT SHALL PROVIDE ALL CONTROL FUNCTIONS.
13. PROVIDE PAC-SDW01RC-1 WIRED REMOTE CONTROLLER, PROVIDE ROOF SUPPORT + STAND FOR OUTDOOR UNIT (AT LEAST 18" HIGH) -- BASIS OF DESIGN FOR STAND: PATE MODEL ES-1 (8" HIGH) + MITSUBISHI FACTORY STAND (12" HIGH). PROVIDE SUBMITTAL FOR REVIEW BY STRUCTURAL ENGINEER AND ARCHITECT. PROVIDE BACNET INTERFACE (ONE PER EACH INDOOR UNIT).
14. PROVIDE WIND BAFFLES AND ADVANCED WIND BAFFLES FOR LOW AMBIENT COOLING DOWN TO -40°F OUTDOORS.

APPROVED ALTERNATIVE MANUFACTURERS
- LG
- DAIKIN
- ENVIROMASTER INTERNATIONAL LLC (EMI) OR APPROVED EQUAL

DUST COLLECTOR SCHEDULE

TAG	SERVICE	TYPE	DUST CATCHER	MAX CFM	CONE. CFM	HP	DIMENSIONS L x W x H	ELECTRICAL		CONNECTIONS		FILTER	WEIGHT LBS	MANU./MODEL	REMARKS
								VOLTS	PHASE	INLET	OUTLET	AREA (S.F.)			
DC-1	SHOP FLOOR SWEEP	CYCLONE	(1) 25 GALLON DRUMS	900	786	1.5	42" x 25" x 68"	110	1	6"	-	48.4	232	LAGUNA / PFLUX:1	-

NOTES:
1. UNIT SHALL BE PROVIDED WITH 4" RESTRICTOR PLATE

APPROVED ALTERNATIVE MANUFACTURERS
- LAGUNA
- ONIEDA
- GRIZZLY INDUSTRIAL OR APPROVED EQUAL

WELDING ARM SNORKEL SCHEDULE

TAG	CFM	THROAT OPENING	SP	MANU. / MODEL	SERVICE	REMARKS
SN-1	1000	8"Ø	3.75	MOVEX / MODEL PR 3000	EXHAUST	"
SN-2	1000	8"Ø	3.75	MOVEX / MODEL PR 3000	EXHAUST	"
SN-3	1000	8"Ø	3.75	MOVEX / MODEL PR 3000	EXHAUST	"
SN-4	1000	8"Ø	3.75	MOVEX / MODEL PR 3000	EXHAUST	"
SN-5	1000	8"Ø	3.75	MOVEX / MODEL PR 3000	EXHAUST	"
SN-6	1000	8"Ø	3.75	MOVEX / MODEL PR 3000	EXHAUST	"

NOTES:

APPROVED ALTERNATIVE MANUFACTURERS
- MILLER
- NEDERMAN
- LINCOLN ELECTRIC

DAMPER SCHEDULE

TAG	SERVICE	LOCATION	SERVICE	FAN CFM	CFM RANGE	DAMPER SIZE	MFGR / MODEL	DAMPER ACTUATOR	REMARKS
D-1	EF-2-AG	CLASSROOM 134 CEILING	EXHAUST	6000	0-6000	28"X12"	GREENHECK / SEVCD-33	24V ELECTRIC	1-3
D-2	EF-3-AG	CLASSROOM 134 CEILING	EXHAUST	3600	0-3600	22"X12"	GREENHECK / SEVCD-33	24V ELECTRIC	1-3

NOTES:
1. END SWITCH
2. STANDARD OPPOSED BLADE DAMPER
3. SILICONE BLADE SEALS

APPROVED ALTERNATIVE MANUFACTURERS
- ARROW
- RUSKIN
- CAMFIL FARR OR APPROVED EQUAL

TRANE

Job Name: JCCSD Capital Project R/TU Reno
Prepared by:
Unit Tag: HC-1
Quantity: 1

Heating Coil

Equipment Details

Coil utilization	Shipping coil

Coil Construction

Model Number	DW0B42030G0CA080BABA00A******
System type	Hot Water 5/8" Shipping Coil, General (W)
Rows	3
Tube mat/wall thickness	.020 (0.508 mm) copper
Nominal fin spacing	80 fins per foot
Fin material	Aluminum
Fin type	Prima-Flo E Standard
Actual coil face area	8.75
Nominal coil height	42" (1067 mm)
Finned length	30" (762 mm)
Casing option	Galvanized
Turbulators	No
Rigging weight	118.7 lb
Installed weight	166.4 lb
Tube mat/wall thickness	.020 (0.508 mm) copper

Coil Performance

Capacity	
Total capacity	305.93 MBh
Air	
Coil type	5/8" Shipping Coil, General (W)
Actual airflow	6000 cfm
Entering dry bulb	40.00 F
Leaving dry bulb	87.02 F
Pressure Drop	0.310 in H2O
Pressure Drop (Standard air)	0.313 in H2O
Face velocity	686 ft/min

Fluid	
Standard fluid flow rate	15.29 gpm
Entering fluid temp	180.00 F
Leaving fluid temp	140.00 F
Fluid PD	0.10 ft fluid
Fluid velocity	0.60 ft/sec
Fluid type	Water
Volume	5.73 gal
Fouling factor	0.00025 hr-sq ft-deg F/Btu
Reynolds number	7342.27 Each
AHRI 410 Classification	
AHRI 410 classification	AHRI ACHC certified
Data generation date	7/9/2025
Trane Select Assist update number	2960.00

Note: Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

AHRI CERTIFIED

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HC-1 DETAIL

SCALE: NOT TO SCALE

NOTES:

APPROVED ALTERNATIVE MANUFACTURERS
- AAON
- YORK
- AEROFIN OR APPROVED EQUAL

HIGHLAND ASSOCIATES
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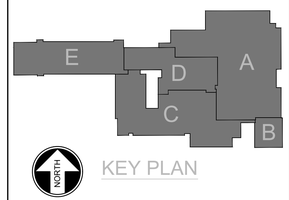
REVISION NO:

ADDENDUM #1	08/18/25

- NYSED REVIEW COMMENTS



KEY PLAN

BID DOCUMENTS

SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

MECHANICAL SCHEDULES

DRAWN BY:	CHECKED BY:
F.G.	M.P.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

M-201

CAD FILE: 5005-M-201.DWG PLOT DATE: 11/11/2025

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VAV BOX SCHEDULE (HOT WATER REHEAT)

TAG	ZONE TYPE	COOLING MAX CFM	COOLING MIN CFM	HEATING CFM	INLET SIZE	DUCT INLET RUNOUT	MAXIMIM APD	HOT WATER REHEAT COIL									SYSTEM	MFR / MODEL	AREA SERVED	REMARKS/ ACCESORIES
								MBH	GPM	EWT	LWT	WPD	EAT	LAT	ROWS	FLUID				
VAV-1-LC	PERIMETER	1310	655	985	12	-	0.36	53.41	2.88	180	142.91	0.46	55.0	105	2	WATER	RTU-2	TRANE / VCWF (HOT WATER HEATING)	MEDIA CENTER 025	1,2,3,4
VAV-2-LC	INTERIOR	600	300	300	10	-	0.09	13.19	0.5	180	127.22	0.92	55.0	95.55	1	WATER	RTU-2	TRANE / VCWF (HOT WATER HEATING)	COMPUTER LAB 024B	1,2,3,4
VAV-3-LC	PERIMETER	1820	910	1365	14	-	0.34	74.02	3.66	180	139.57	0.57	55.0	105	2	WATER	RTU-2	TRANE / VCWF (HOT WATER HEATING)	STEAM LAB 024	1,2,3,4
VAV-4-LC	PERIMETER	285	145	215	6	-	0.24	12.31	0.5	180	130.75	0.17	55.0	107.8	2	WATER	RTU-2	TRANE / VCWF (HOT WATER HEATING)	ENGRAVING ROOM 024A	1,2,3,4
VAVR-5-LC	RETURN	600	-	-	10	-	-	-	-	-	-	-	-	-	-	-	RTU-2	TRANE / VCCF (COOLING ONLY)	COMPUTER LAB 024B	1,2,3,4
VAVR-6-LC	RETURN	285	-	-	6	-	-	-	-	-	-	-	-	-	-	-	RTU-2	TRANE / VCCF (COOLING ONLY)	ENGRAVING ROOM 024A	1,2,3,4
VAVR-7-LC	RETURN	1820	-	-	14	-	-	-	-	-	-	-	-	-	-	-	RTU-2	TRANE / VCCF (COOLING ONLY)	STEAM LAB 024	1,2,3,4
VAV-1-AG	INTERIOR	620	310	310	10	-	0.10	13.36	0.5	180	126.56	0.92	55.0	94.73	1	WATER	RTU-1	TRANE / VCWF (HOT WATER HEATING)	AGRICULTURE LAB 034	1,2,3,4
VAV-2-AG	PERIMETER	2250	1125	1690	16	-	0.35	91.64	4.24	180	136.75	0.8	55.0	105	2	WATER	RTU-1	TRANE / VCWF (HOT WATER HEATING)	WELDING ROOM 034B	1,2,3,4
VAV-3-AG	INTERIOR	3250	1625	1625	24X16	-	0.28	60.12	3.0	180	140	2.9	55.0	89.11	1	WATER	RTU-1	TRANE / VCWF (HOT WATER HEATING)	WELDING ROOM 034B	1,2,3,4
VAV-4-AG	INTERIOR	3250	1625	1625	24X16	-	0.28	60.12	3.0	180	140	2.9	55.0	89.11	1	WATER	RTU-1	TRANE / VCWF (HOT WATER HEATING)	WELDING ROOM 034B	1,2,3,4
VAVR-5-AG	RETURN	2250	-	-	16	-	-	-	-	-	-	-	-	-	-	-	RTU-1	TRANE / VCCF (COOLING ONLY)	AGRICULTURE LAB 034	1,2,3,4
VAVR-6-AG	RETURN	3250	-	-	24X16	-	-	-	-	-	-	-	-	-	-	-	RTU-1	TRANE / VCCF (COOLING ONLY)	WELDING ROOM 034B	1,2,3,4
VAVR-7-AG	RETURN	3250	-	-	24X16	-	-	-	-	-	-	-	-	-	-	-	RTU-1	TRANE / VCCF (COOLING ONLY)	WELDING ROOM 034B	1,2,3,4

REMARKS/ACCESSORIES:

1) PROVIDE CONTROLS VENDOR-SUPPLIED VAV CONTROLLERS EQUAL TO SY210 DDC-BASIC (WATER HEAT-MODULATING)
2) PROVIDE EACH VAV BOX WITH A 120V/24V CONTROL TRANSFORMER
3) E.C. TO PROVIDE 120V POWER TO EACH BOX. COORDINATE WITH ELECTRICAL CONTRACTOR.
4) PROVIDE VAV BOX REHEAT COIL WITH A TWO-WAY MODULATING ELECTRONIC CONTROL VALVE.

APPROVED ALTERNATE MANUFACTURERS
- TITUS
- YORK
- NAILOR OR APPROVED EQUAL

AFTON CENTRAL SCHOOL DISTRICT VENTILATION RATE TABLE

Zone Identification			Standard Case: 2020 Mechanical Code of New York State Verification Rate Procedure											Design Case - Cooling		Design Case - Heating		Design Exhaust
Room or Zone	Occupancy Category	Area (sf)	People Outdoor Air Rate Rp (cfm/per)	Area Outdoor Air Rate Ra (cfm/sf)	Occupant Density (#/1000 sf)	Occupancy (# people) Pz	People OA CFM Vpeo	Area OA CFM - Varea	Breathing Zone Outdoor Air Flow Vbz (cfm)	Zone Air Distribution Effectiveness Ez	Zone Outdoor Air Flow Voz (cfm)	Code Required Exhaust Airflow Rate (cfm/sf) or (cfm/fixture)	Total Exhaust Required (cfm)	Zone Primary Air Flow Vpz (cfm)	Primary Outdoor Air Fraction Zp = Voz/Vpz	Zone Primary Air Flow Vpz (cfm)	Primary Outdoor Air Fraction Zp = Voz/Vpz	Total Exhaust Provided
AHU-2-EX Learning Commons																		
Media Center 025	Educational Facilities - Classrooms (age 9 plus)	900	10	0.12	35	32	315.0	108.0	423	0.8	529	0	0	1,550	0.34	1,550	0.34	0
RTU-2 Learning Commons										**AHU-2-EX MIN OA**	**529**							
Computer/3D Printing Lab 024B	Educational Facilities - Computer lab	390	10	0.12	25	10	97.5	46.8	144	0.8	180	0	0	1,650	0.11	1,650	0.11	0
STEM Lab 024	Educational Facilities - Classrooms (age 9 plus)	1,266	10	0.12	35	44	443.1	151.9	595	0.8	744	0	0	1,850	0.40	1,850	0.40	0
										RTU-2 MIN OA	**924**			5,050		5,050		
DHU-1 Pool Mechanical Room																		
Pool Mechanical Room	General - Storage rooms	3,545	0	0.12	0	0	0.0	425.4	425	0.8	532	0	0	6,000	0.09	6,000	0.09	2,000
										DHU-1 MIN OA	**532**			6,000		6,000		
ERU-2 Boys Pool Locker Room																		
Boys Locker Room	Locker Room	306	0	0	0	0	0.0	0.0	0	0.8	0	0.50	153	350	0.00	350	0.00	0
Boys Locker Toilet	Toilet	152	0	0	0	0	0.0	0.0	0	0.8	0	50.00	150	350	0.00	350	0.00	0
Boys Locker Drying Room	Toilet	174	0	0	0	0	0.0	0.0	0	0.8	0	0.50	87	350	0.00	350	0.00	0
Boys Locker Shower	Toilet	105	0	0	0	0	0.0	0.0	0	0.8	0	50.00	100	350	0.00	350	0.00	0
										ERU-2 MIN OA	**490**		490	1,400		1,400		
ERU-1 Girls Pool Locker Room																		
Girls Locker Room	Locker Room	392	0	0	0	0	0.0	0.0	0	0.8	0	0.50	196	350	0.00	350	0.00	0
Girls Locker Toilet	Toilet	152	0	0	0	0	0.0	0.0	0	0.8	0	50.00	150	350	0.00	350	0.00	0
Girls Locker Drying Room	Toilet	184	0	0	0	0	0.0	0.0	0	0.8	0	0.50	92	350	0.00	350	0.00	0
Girls Locker Shower	Toilet	107	0	0	0	0	0.0	0.0	0	0.8	0	50.00	100	350	0.00	350	0.00	0
										ERU-1 MIN OA	**538**		538	1,400		1,400		
AHU-2-EX AGRICULTURE LAB																		
AG Lab - Kitchen	Kitchen	205	0	0	0	0	0.0	0.0	0	0.8	0	100.0	100	500	0.00	500	0.00	0
AG Lab - Agriculture Area	Educational Facilities - Wood/metal shop	1,732	10	0.18	20	35	346.4	311.8	658	0.8	823	0.5	866	1300	0.63	1300	0.63	0
										AHU-2-EX MIN OA	**823**							
RTU-1 AGRICULTURE LAB																		
AG Lab - Welding Booth's	Educational Facilities - Wood/metal shop	142	10	0.18	20	3	28.4	25.6	54	0.8	67	0.5	71	750	0.09	750	0.09	6,000
AG Lab - Welding Lab General	Educational Facilities - Wood/metal shop	847	10	0.18	20	17	169.4	152.5	322	0.8	402	0.5	424	1000	0.40	1000	0.40	3,600
AG Lab - Animal Room	Retail - Pet shops (animal areas)	148	7.5	0.18	10	1	11.1	26.6	38	0.8	47	0.9	133	650	0.07	650	0.07	770
IT Center 138 (UV-138/SC-3/CU-3)										**RTU-1 MIN OA**	**517**							
IT Center 138	Office Buildings - Office space	896	5	0.06	5	4	22.4	53.8	76	0.8	95	0	0	2,000	0.05	2,000	0.05	0
										UV-138-EX/SC-3/CU-3 (EX) MIN OA	**95**							
ESPORTS (UV-128/SC-2/CU-2)																		
ESPORTS ROOM	Educational Facilities - Computer lab	250	10	0.12	25	6	62.5	30.0	93	0.8	116	0	0	200	0.58	200	0.58	0
										UV-128-EX/SC-2/CU-2 (EX) MIN OA	**116**							
PDU-1 Pool Room																		
Pool Room	Sports & Entertainment - Swimming (pool & deck)	6,720	0	0.48	0	0	0.0	3225.6	3226	0.8	4032	0	0	15,100	0.27	15,100	0.27	0
Spectator	Sports & Entertainment - Swimming (pool & deck)	560	0	0.48	150	84	0.0	268.8	269	0.8	336	0	0	15,100	0.02	15,100	0.02	0
										PDU-1 MIN OA	**4032**							
NOTES:																		
1. AHU-2-EX SHALL BE 40.382% OUTSIDE AIR.																		

NOTES:
1. AHU-2-EX SHALL BE 40.382% OUTSIDE AIR.

PUMP SCHEDULE

TAG	SERVICE	TYPE	GPM	PUMP HEAD (FT.)	MOTOR POWER (HP)	BRAKE POWER (BHP)	IMPELLER DIAMETER (IN.)	EFFICIENCY (%)	RPM	VOLTS	FLA	MFGR / MODEL	REMARKS
CHWP-1	CHILLED WATER PUMP (VARIABLE PRIMARY FLOW)	BASE MOUNTED END SUCTION	460	85	20	13.1	10.375	77.8	1608	208V/3PH	-	BELL & GOSSETT SERIES e-1510 4EB	1,2
CHWP-2	CHILLED WATER PUMP (VARIABLE PRIMARY FLOW)	BASE MOUNTED END SUCTION	460	85	20	13.1	10.375	77.8	1608	208V/3PH	-	BELL & GOSSETT SERIES e-1510 4EB	1,2

REMARKS:
1. CONTRACTOR SHALL FIELD VERIFY PIPE SIZES PRIOR TO SUBMITTALS. PROVIDE TRIPLE DUTY VALVE. PROVIDE SUCTION DIFFUSERS.
2. PROVIDE WALL-MOUNTED VFD. BASIS OF DESIGN: ABB ACH 580.

APPROVED ALTERNATE MANUFACTURERS
- TACO
- ARMSTRONG
- GRUNDFOS/PEERLESS

DIFFUSER, REGISTER & GRILLE SCHEDULE

TAG	MANUF.	MODEL	CFM RANGE	SERVICE	NECK SIZE	PRESS. DROP	PATTERN	STYLE	MAX NC	MATERIAL	REMARKS/ACCESSORIES
S-1	ANEMOSTAT	SLAD-4-50	0-275	SUPPLY	10"Ø	0.02"	-	72"x6.5" SURFACE	15	ALUMINUM	4 SLOT, PLENUM BOX W/COLLAR
S-2	ANEMOSTAT	EPL-D	0-395	SUPPLY	12"Ø	0.02"	4-WAY	24"x24" LAY IN	<15	18 GA ALUMINUM	PATTERN DEFLECTOR
S-3	ANEMOSTAT	EPL-D	0-640	SUPPLY	14"Ø	0.03"	4-WAY	24"x24" LAY IN	18	18 GA ALUMINUM	PATTERN DEFLECTOR
S-4	ANEMOSTAT	DF	0-675	SUPPLY	12"x12"	0.03"	4-WAY	18"x18" SURFACE	<20	20 GA ALUMINUM	SQUARE TO ROUND NECK ADAPTOR THROW REDUCING VANES
S-5	ANEMOSTAT	DF	0-800	SUPPLY	22"x22"	0.04"	4-WAY	24"x24" SURFACE	<20	20 GA ALUMINUM	SQUARE TO ROUND NECK ADAPTOR THROW REDUCING VANES
S-6	ANEMOSTAT	MODEL 20	0-1130	SUPPLY	20"x14"	0.04"	-	22"x16" SURFACE	<20	ALUMINUM	3/4" BLADE SPACING, OB DAMPER
S-7	ANEMOSTAT	MODEL 20	0-1700	SUPPLY	34"x18"	0.02"	-	36"x18" SURFACE	<20	ALUMINUM	3/4" BLADE SPACING, OB DAMPER
R-1	PRICE	SHP-PR	0-275	RETURN	10"Ø	0.052"	-	24"x24" LAY IN	-	ALUMINUM	60 DEGREE TRIANGLE GRILLE
R-2	ANEMOSTAT	GC5	0-350	RETURN	10"x10"	0.05"	-	12"x12" LAY IN	<20	ALUMINUM	OB DAMPER, 45° DEFLECTION, 1/2" BLADE SPACING
R-3	ANEMOSTAT	GC5	0-750	RETURN	22"x22"	0.01"	-	24"x24" LAY IN	<20	ALUMINUM	OB DAMPER, 45° DEFLECTION, 1/2" BLADE SPACING
R-4	ANEMOSTAT	20L	0-2290	RETURN	34"x22"	0.03"	-	36"x24" SURFACE	<20	STAINLESS STEEL	OB DAMPER, 3/4" BLADE SPACING, LONG BLADES
R-5	ANEMOSTAT	20L	0-3290	RETURN	42"x26"	0.03"	-	44"x28" SURFACE	<20	STAINLESS STEEL	OB DAMPER, 3/4" BLADE SPACING, LONG BLADES
E-1	ANEMOSTAT	GC5	0-350	EXHAUST	10"x10"	0.05"	-	12"x12" LAY IN	<20	ALUMINUM	1/2" BLADE SPACING, 45° DEFLECTION WITH OB DAMPER
E-2	ANEMOSTAT	GC5	0-440	EXHAUST	10"x10"	0.03"	-	12"x12" LAY IN	<20	ALUMINUM	1/2" BLADE SPACING, 0° DEFLECTION WITH OB DAMPER
E-3	ANEMOSTAT	GC5	0-750	EXHAUST	22"x22"	0.01"	-	24"x24" SURFACE	<20	ALUMINUM	1/2" BLADE SPACING, 45° DEFLECTION WITH OB DAMPER
E-4	ANEMOSTAT	GC5	0-750	EXHAUST	22"x22"	0.01"	-	24"x24" LAY IN	<20	ALUMINUM	1/2" BLADE SPACING, 45° DEFLECTION WITH OB DAMPER
T-1	ANEMOSTAT	20	0-150	TRANSFER	6"x6"	0.03"	-	8"x8" LAY-IN	<20	ALUMINUM	OB DAMPER, 3/4" BLADE SPACING
T-2	ANEMOSTAT	20	0-150	TRANSFER	6"x6"	0.03"	-	8"x8" SURFACE	<20	ALUMINUM	OB DAMPER, 3/4" BLADE SPACING
T-3	ANEMOSTAT	20	0-1890	TRANSFER	22"x22"	0.04"	-	24"x24" SURFACE	21	ALUMINUM	OB DAMPER, 3/4" BLADE SPACING

NOTES:
1. LOCKER/ SHOWER ROOM AREAS TO BE ALUMINUM. PROVIDE SHEETMETAL PLENUM BEHIND GRILLES FOR DUCT CONNECTION WHERE REQUIRED.
2. ALL EXPOSED DUCTWORK, GRILLES, AND ACCESSORIES SHALL BE PRIMED AT THE FACTORY FOR FIELD PAINTING.
3. COORDINATE ALL DRAWINGS AND MOUNTING TYPES WITH THE FINAL ARCHITECTURAL RCP, INCLUDING ALL ADDENDA AND BULLETINS.

APPROVED ALTERNATE MANUFACTURERS
- TITUS
- TUTTLE & BAILEY
- PRICE OR APPROVED EQUAL

VAV BOX SPECIFICATION:

SINGLE-DUCT TERMINAL UNITS
VCCF — COOLING ONLY VCWF — WITH HOT WATER COIL VCEF — WITH ELECTRIC COIL

CASING
22–GAUGE GALVANIZED STEEL.

AGENCY LISTING

UNIT IS UL AND CANADIAN UL LISTED AS A ROOM AIR TERMINAL UNIT. CONTROL # 9N65. AHRI 880 CERTIFIED.

INSULATION

1/2–INCH (12.7 MM) MATTE-FACED INSULATION — INTERIOR SURFACE OF UNIT CASING IS ACOUSTICALLY AND
THERMALLY LINED WITH 1/2-INCH, 1.8 LB/FT3 (12.7 MM, 24.0 KG/M3) COMPOSITE DENSITY GLASS FIBER WITH A HIGH-DENSITY FACING. INSULATION R-VALUE IS 4.2. INSULATION IS UL LISTED AND MEETS NFPA-90A AND UL 181STANDARDS. THERE ARE NO EXPOSED EDGES OF INSULATION (COMPLETE METAL ENCAPSULATION).1–INCH (25.4 MM) MATTE-FACED INSULATION — INTERIOR SURFACE OF UNIT CASING IS ACOUSTICALLY ANDTHERMALLY LINED WITH 1-INCH, 1.8 LB/FT3 (25.4 MM, 16.0 KG/M3) COMPOSITE DENSITY GLASS FIBER WITH A HIGH-DENSITY FACING. INSULATION R-VALUE IS 4.2. INSULATION IS UL LISTED AND MEETS NFPA-90A AND UL 181STANDARDS. THERE ARE NO EXPOSED EDGES OF INSULATION (COMPLETE METAL ENCAPSULATION).1–INCH (25.4 MM) FOIL-FACED INSULATION — INTERIOR SURFACE OF UNIT CASING IS ACOUSTICALLY AND THERMALLYLINED WITH 1-INCH, 1.8 LB/FT3 (25.4 MM, 16.0 KG/M3) DENSITY GLASS FIBER WITH FOIL FACING. INSULATION R-VALUEIS 4.2. INSULATION IS UL LISTED AND MEETS NFPA-90A AND UL 181 STANDARDS AND BACTERIOLOGICAL STANDARDSTM C 665. THERE ARE NO EXPOSED EDGES OF INSULATION (COMPLETE METAL ENCAPSULATION).1–INCH (25.4 MM) DOUBLE-WALL INSULATION — INTERIOR SURFACE OF UNIT CASING IS ACOUSTICALLY ANDTHERMALLY LINED WITH A 1-INCH, 1.8 LB./FT3 (25.4 MM, 16.0 KG/M3) COMPOSITE DENSITY GLASS FIBER WITH HIGH-DENSITY FACING. INSULATION R-VALUE IS 4.2. INSULATION IS UL LISTED AND MEETS NFPA-90A AND UL 181STANDARDS. INSULATION IS COVERED BY INTERIOR LINER MADE OF 26-GAGE GALVANIZED STEEL. ALL WIRE PENETRATIONSARE COVERED BY GROMMETS. THERE ARE NO EXPOSED EDGES OF INSULATION (COMPLETE METAL ENCAPSULATION).3/8–INCH (9.5 MM) CLOSED-CELL INSULATION — INTERIOR SURFACE OF THE UNIT CASING IS ACOUSTICALLY ANDTHERMALLY LINED WITH 3/8-INCH, 4.4 LB/FT3 (9.5 MM, 70.0 KG/M3) CLOSED-CELL INSULATION. INSULATION IS UL LISTEDAND MEETS NFPA-90A AND UL 181 STANDARDS. INSULATION HAS AN R-VALUE OF 1.41.5. THERE ARE NOEXPOSED EDGES OF INSULATION (COMPLETE METAL ENCAPSULATION).

PRIMARY AIR VALVE

AIR VALVE ROUND — THE PRIMARY (VENTILATION) AIR INLET CONNECTION IS AN 18-GAUGE GALVANIZED STEELCYLINDER SIZED TO FIT STANDARD ROUND DUCT. A MULTIPLE-POINT, AVERAGING FLOW SENSING RING IS PROVIDED WITHBALANCING TAPS FOR MEASURING +/-5% OF UNIT CATALOGED AIRFLOW. AN AIRFLOW-VERSUS-PRESSURE DIFFERENTIALCALIBRATION CHART IS PROVIDED. THE DAMPER BLADE IS CONSTRUCTED OF A CLOSED-CELL FOAM SEAL THAT ISMECHANICALLY LOCKED BETWEEN TWO 22-GAUGE GALVANIZED STEEL DISKS. THE DAMPER BLADE ASSEMBLY ISCONNECTED TO A CAST ZINC SHAFT SUPPORTED BY SELF-LUBRICATING BEARINGS. THE SHAFT IS CAST WITH A DAMPERPOSITION INDICATOR. THE VALVE ASSEMBLY INCLUDES A MECHANICAL STOP TO PREVENT OVER-STROKING. SEE TABLE22, P. 22 FOR AIR LEAKAGE PERFORMANCE DATA.

AIR VALVE RECTANGULAR — INLET COLLAR IS CONSTRUCTED OF 18-GAUGE GALVANIZED STEEL SIZED TO FIT STANDARDRECTANGULAR DUCT. AN INTEGRAL MULTIPLE-POINT, AVERAGING FLOW-SENSING RING PROVIDES PRIMARY AIRFLOWMEASUREMENT WITHIN +/-5% OF UNIT CATALOGED AIRFLOW. DAMPER IS 16-GAUGE GALVANIZED STEEL. THE DAMPERBLADE ASSEMBLY IS CONNECTED TO A CAST ZINC SHAFT SUPPORTED BY SELF-LUBRICATING BEARINGS. THE SHAFT ISCAST WITH A DAMPER POSITION INDICATOR. THE VALVE ASSEMBLY INCLUDES A MECHANICAL STOP TO PREVENT OVER-STROKING. SEE TABLE 22, P. 22 FOR AIR LEAKAGE PERFORMANCE DATA.SINGLE-DUCT VAV TERMINAL UNITS

APPROVED ALTERNATE MANUFACTURERS
- TITUS
- YORK
- NAILOR OR APPROVED EQUAL

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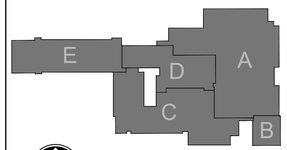
REVISION NO:

ADDENDUM #1	08/18/25
• NYSED REVIEW COMMENTS	
ADDENDUM #2	10/10/25
• NYSED REVIEW COMMENTS	
ADDENDUM #3	10/29/25
• NYSED REVIEW COMMENTS	



KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

MECHANICAL SCHEDULES

DRAWN BY:	CHECKED BY:
F.G.	M.P.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

M-202

CAD FILE: 5005-M-202.DWG PLOT DATE: 11/11/2025

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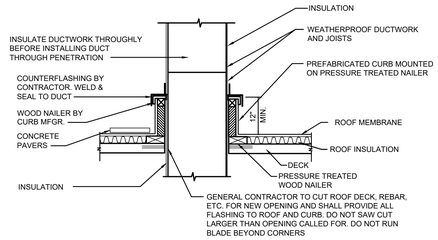
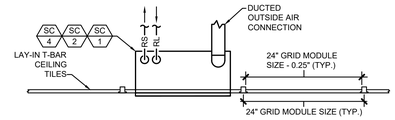


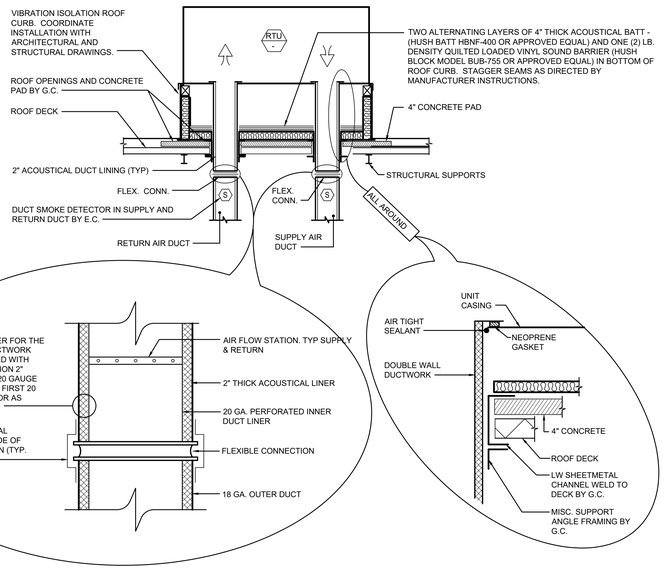
NOTE:
INSULATE EXHAUST/RELIEF/RETURN DUCTS NOT SCHEDULED TO BE INSULATED TO A MINIMUM OF 5' - 0" FROM EXTERIOR PENETRATION

DUCT PENETRATION DETAIL
NOT TO SCALE



CEILING CASSETTE SENSIBLE COOLER DETAIL
NOT TO SCALE

NOTE:
SMOKE DETECTORS SHALL BE PROVIDED BY E.C., INSTALLED BY M.C., AND WIRED TO SHUT DOWN THE UNIT UPON DETECTION OF PRODUCTS OF COMBUSTION (SMOKE) BY M.C. DETECTORS SHALL BE PROVIDED WITH TWO SETS OF ADDITIONAL NORMALLY OPEN CONTACTS. CONTACTS TO BE WIRED TO FIRE ALARM PANEL BY E.C. AND DDC PANEL BY M.C.



ROOFTOP UNIT DETAIL
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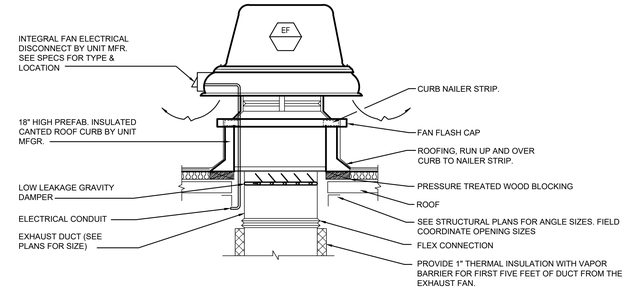
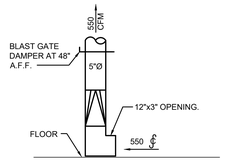


GENERAL ROOF EXHAUST FAN DETAIL
NOT TO SCALE

CFM REQUIREMENTS TO MAINTAIN PROPER VELOCITY IN DUST COLLECTION		
DIA.	3500 FPM	4000 FPM
3"	170	195
4"	300	350
5"	475	550
6"	700	785
7"	950	1100
8"	1200	1400
9"	1550	1800
10"	1900	2200
12"	2800	3175
14"	3800	4300
16"	4900	5300



FLOOR SWEEP DETAIL
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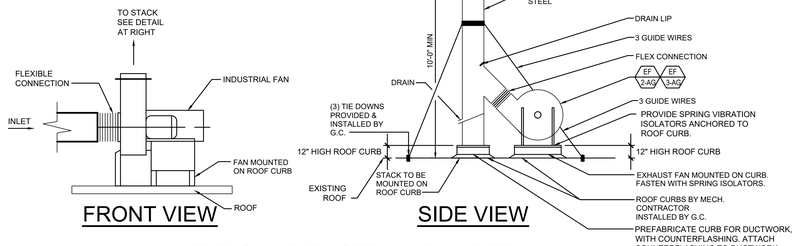
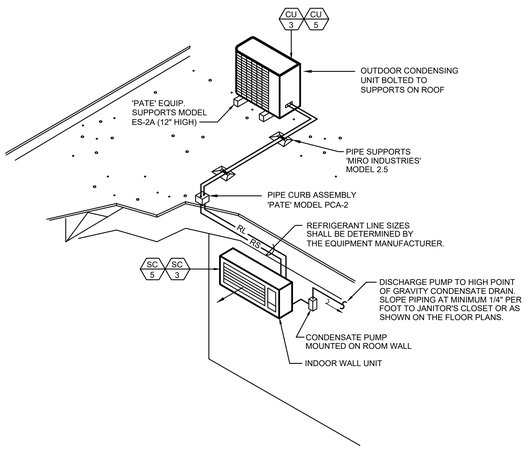
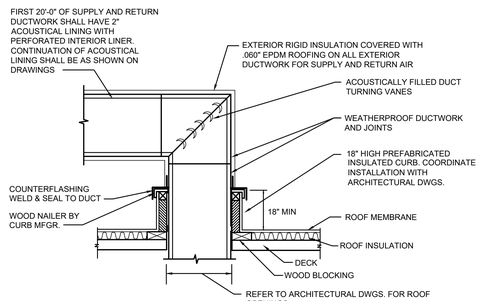


TYPICAL INDUSTRIAL FAN DETAIL
NOT TO SCALE

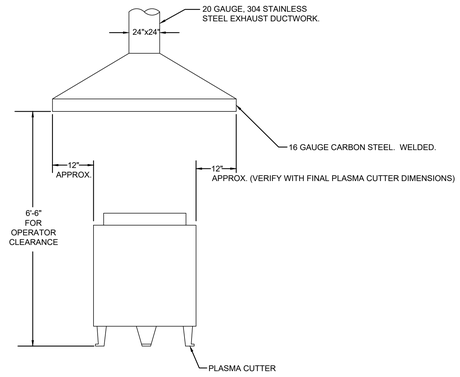


DUCTLESS (WALL-HUNG) SPLIT SYSTEM DETAIL
NOT TO SCALE



NOTES:
1. PROVIDE SQUARE CURB CAP FOR ROUND DUCTWORK, WELD TO ROUND DUCT AND CAULK WEATHER TIGHT
2. INSULATE INTERNAL DUCTWORK (RETURN/RELIEF/EXHAUST) NOT SCHEDULED TO BE INSULATED ELSEWHERE WITH WRAP, TYPE A INSULATION 5' - 0" MIN. FROM EXTERNAL PENETRATION

DUCTWORK CURB DETAIL
NOT TO SCALE



PLASMA CUTTER HOOD DETAIL
NOT TO SCALE

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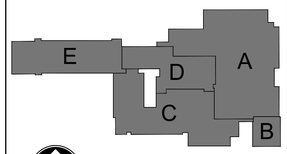

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

MECHANICAL DETAILS

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

M-300

CAD FILE: 5005-M-300.DWG PLOT DATE: 11/11/2025

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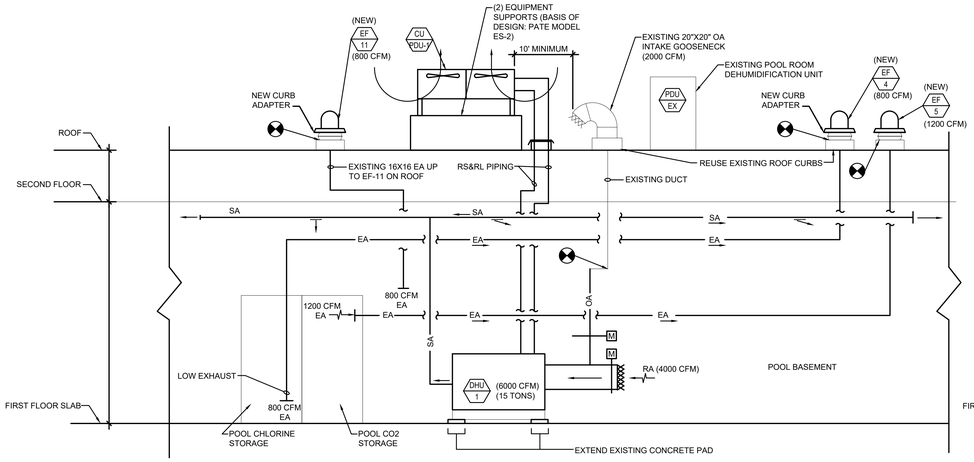
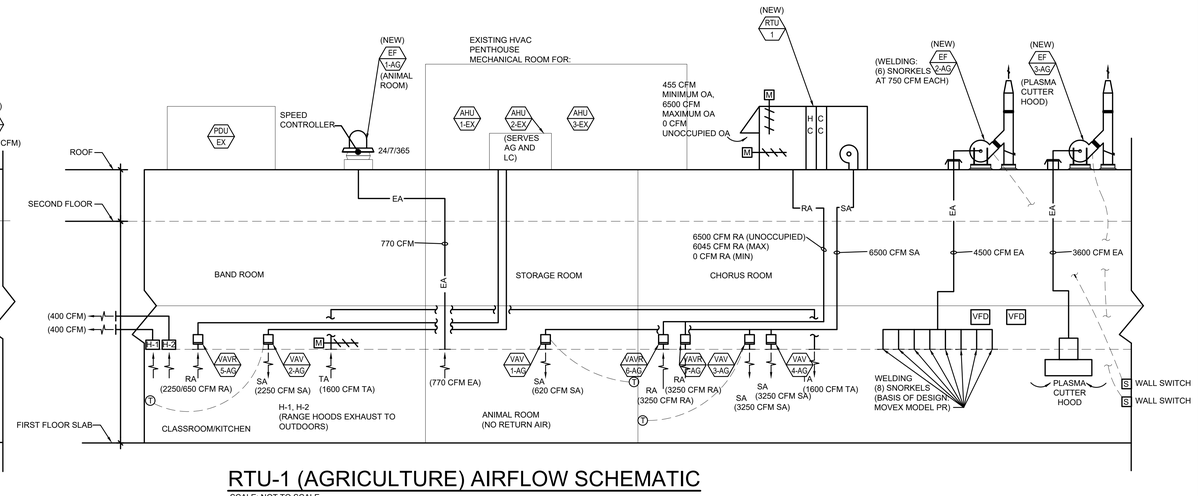


DHU-1/CU-DHU-1 AIRFLOW/PIPING SCHEMATIC

SCALE: NOT TO SCALE



RTU-1 (AGRICULTURE) AIRFLOW SCHEMATIC

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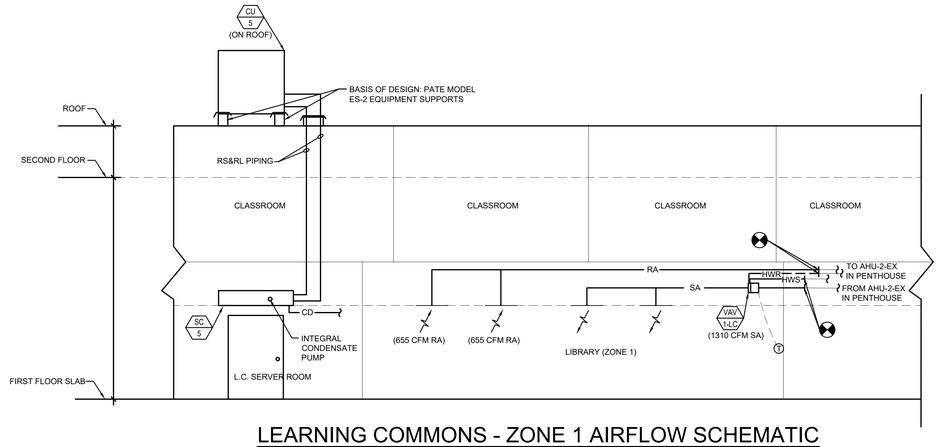
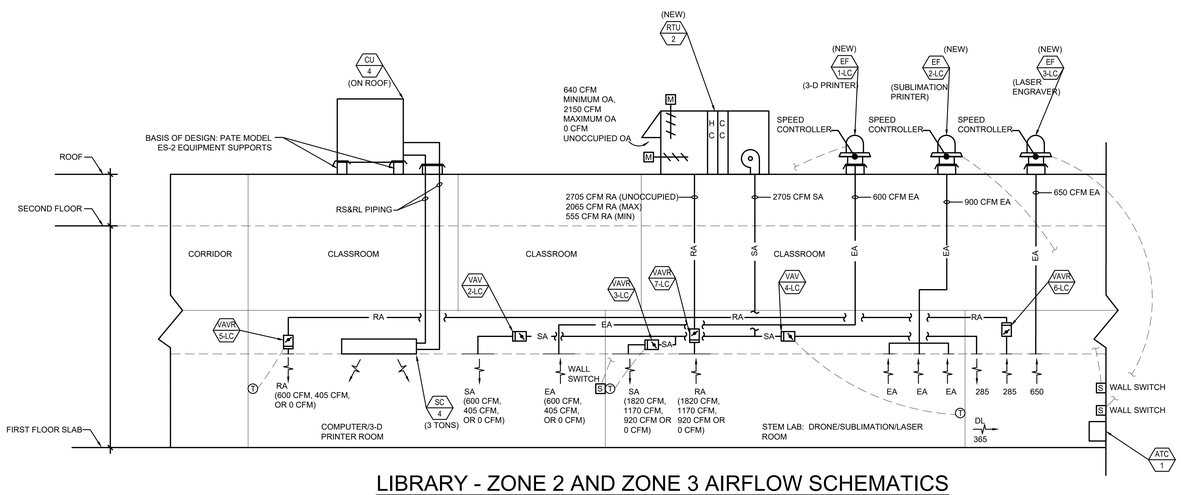


LEARNING COMMONS - ZONE 1 AIRFLOW SCHEMATIC

SCALE: NOT TO SCALE



LIBRARY - ZONE 2 AND ZONE 3 AIRFLOW SCHEMATICS

SCALE: NOT TO SCALE

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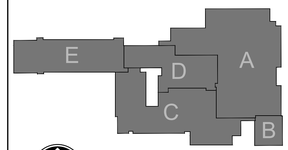
REVISION NO:

1	ADDENDUM #1	08/18/25

- NYSED REVIEW COMMENTS



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29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

MECHANICAL DETAILS

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B.H.	M.P.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

M-301

CAD FILE: 5005-M-301.DWG PLOT DATE: 11/11/2025

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Product Data - Horizon™ - Outdoor Air Unit (OAN)

Size	Qty	Description	Model Number
N648	1	Horizon™ - Outdoor Air Unit (OAN)	OAND648A3-D1B4G4LR-J5G0006JR5002B0B3A0

Tag(s): RTU-1

Unit Voltage: 208-3-60
Airflow Configuration: Vertical Discharge/Vertical Return
Installation: Outdoor
Hot Water Coil: 3-Row
Evaporator Coil: DX 6 Row Interlaced
Hot Gas Reheat: Modulating
Compressor: Digital Scroll Primary Circuit
Condenser: Air Cooled Variable Speed Head Pressure Low Ambient Control
Capacity Control: R-454B - Low GWP Refrigerant & No RCC Valve
Indoor Blower Motor: Direct Drive w/ Shaft Grounding Ring w/VFD
Heat Type: Hot Water
Fuel Type: Hot Water
Unit Controls: Non DDC - Terminal Strip
Powered Exhaust: Direct Drive w/VFD & Barometric Relief Damper
Damper Options: Modulating OA/RA Damper for Economizer Control
Filters: MERV-8
Electrical Options: Non-Fused Disconnect Switch "Circuit Breaker" w/115v Outlet
Air Flow Monitoring: Outdoor Air w/ Display and IFM w/ Piezo Ring/Tap
Accessories: Condenser Hailguard
Curb Selection: Horizontal Discharge Curb
Warranty: 1-Year Labor DX Electric Heat / Hot Water Heat
Warranty: 1-Year Parts Only (manufacturer warranty)
Warranty: 5-Year Digital/Variable Speed Scroll Compressor
Supply Discharge Air Sensor (FLD)
2 inch Double Wall Construction
Stainless Steel Drip Pan
Blower HP - 7.5
Blower RPM - 2343
Supply Fan - CF180x2
Exhaust RPM - 1936
Exhaust HP - 7.5
Exhaust Fan - CF200
Unit Amps - FLA: 269.6 Amps
Min Circuit Ampacity - MCA: 281.0 Amps
Maximum Overcurrent Protection - MOCP: 300 Amps

TRANE

Project Name: **Afton CSD CapEx Reno** Tag: **RTU-1**

Comments:

Unit Information

Model:	**Horizon™ (OAN Rev5)**	Unit Length:	**197** in	Weight Operating:	**6455** lb*
Size:	**N648**	Unit Width:	**101** in	***Note:***	***Weight does not include CURB weight. See CURB submittal for actual***
Quantity:	**1**	Unit Height:	**93** in		
Supply Airflow:	**8,000** CFM	Elevation:	**0** ft	**Refrigerant Charge - R-454B**	
Outside Airflow:	**8,000** CFM	Ambient Air DB:	**95** F	Circuit 1:	**59.6** lbs
Minimum Airflow:	**3450** CFM			Circuit 2:	**53.8** lbs

Cooling Performance

Gross Total Capacity:	**624.1** MBh	Evaporator Face Area:	**27.6** sq ft
Gross Sensible Capacity:	**362.4** MBh	Evaporator Rows / FPI:	**6 / 12**
Net Total Capacity:	**600.5** MBh	Condenser Face Area:	**60.5** sq ft
Net Sensible Capacity:	**338.0** MBh	Condenser Rows / FPI :	**4 / 12**
Entering Air DB / WB (Coil):	**95 / 76** F	Air Velocity:	**289** fpm
Leaving Air DB / WB (Coil):	**51.9 / 51.4** F	Coil Air PD:	**0.27** in H2O
Leaving Air DB / WB (Reheat):	**97.5 / 68.12** F	EER:	**8.5**
Leaving Air DB / WB (Unit):	**100.7 / 69.1** F	Watts:	**70528**
Leaving DP:	**50.8** F	MRE:	**3.53** lb/kWh
MRC:	**249.20** lb/h		

Heating Performance

Heat Type:	**Hot Water**	Rows:	**3**	Entering Fluid Temp:	**180** F
Capacity:	**676** MBh	FPI:	**10**	Leaving Fluid Temp:	**140** F
Entering Air DB:	**-10** F	Fluid Flow:	**34.5** GPM	Fluid Type:	**Water**
Leaving Air DB:	**68.1** F	Fluid PD:	**2.3** ft, H2O	Percent Glycol:	**0** %
Air Velocity:	**1004** fpm	Fluid Velocity:	**2.1** ft/s		
Coil Air PD:	**0.68** in H2O				

RTU-1 DETAIL
SCALE: NOT TO SCALE

Product Data - Horizon™ - Outdoor Air Unit (Revision 6)

Size	Qty	Description	Model Number
D020	1	Horizon™ - Outdoor Air Unit (Revision 6)	OADG020F1-DAB1GGE00-M3AEG3AE1-; 00A00003C-A01C00A00-AA0A00000-00AL00000

Tag(s): RTU-2

Unit Voltage: 208-3-60
Curb Selection: Standard Knockdown Curb - Powered Exhaust Cabinet
Warranty: 1-Year Labor DX Electric Heat / Hot Water Heat
Warranty: 1-Year Parts Only (manufacturer warranty)
Warranty: 5-Year Digital/Variable Speed/Standard Scroll Compressor / 25-Year Heat Exchanger
Airflow Configuration: Horizontal Discharge/Horizontal Return
Indoor Coil Type: DX 6-Row
Reheat: Fin & Tube Modulating HGRH
Compressor: Digital Scroll-1st Circuit Only
Outdoor Coil Type: Air Cooled Fin & Tube
Capacity Control: R-454B - Low GWP Refrigerant & No RCC Valve
Heat Type - Primary: Hot Water
Heat Capacity - Primary: 2 Row/12 FPI
Supply Fan Motor Type: Direct Drive w/Shaft Grounding Ring w/VFD
Exhaust Fan Motor Type: Direct Drive w/Shaft Grounding Ring w/VFD
Fan Piezo Rings: Supply Fan Piezo Ring/Tap
Unit Controls: No Controls
Filter Options: MERV-8,30%
Damper Options: Modulating OA & RA Dampers w/Economizer
Exhaust Dampers: Barometric Relief Dampers
Electrical Options: Non-Fused Disconnect "Circuit Breaker"
Outdoor Air Monitoring: Airflow Probes
Condenser Fan Options: Active (VFD) Head Pressure Low Ambient Control
Hailguards: Hailguards
Installation: Outdoor
Convenience Outlet: Convenience Outlet
Cooling Controls: Reliatel
Supply Discharge Air Sensor (FLD)
2 inch Double Wall Construction
Stainless Steel Drip Pan
Blower HP - 7.5
Blower RPM - 2496
Supply Fan - ANPA 16
Exhaust RPM - 2013
Exhaust HP - 3
Exhaust Fan - ANPA 16
Unit Amps - FLA: 96.8 Amps
Min Circuit Ampacity - MCA: 104.2 Amps
Maximum Overcurrent Protection - MOCP: 125 Amps

TRANE

Project Name: **Afton CSD CapEx Reno** Tag: **RTU-2**

Comments:

Unit Information

Model:	**Horizon™ (OAD/N Rev6 - OADG/OANG)**	Unit Length:	**146** in	Weight Operating:	**3433** lb*
Size:	**D020**	Unit Width:	**95** in	***Note:***	***Weight does not include CURB weight. See CURB submittal for actual***
Quantity:	**1**	Unit Height:	**68** in		
Supply Airflow:	**3,703** CFM	Elevation:	**0** ft	**Refrigerant Charge - R-454B**	
Outside Airflow:	**2,700** CFM	Ambient Air DB:	**95** F	Circuit 1:	**32.8** lbs
Minimum Airflow:	**1446** CFM				

Cooling Performance

Gross Total Capacity:	**230.7** MBh	Evaporator Face Area:	**14.76** sq ft
Gross Sensible Capacity:	**143.6** MBh	Evaporator Rows / FPI:	**6 / 14**
Net Total Capacity:	**221.4** MBh	Condenser Face Area:	**30** sq ft
Net Sensible Capacity:	**134.3** MBh	Condenser Rows / FPI :	**5 / 13**
Entering Air DB / WB (Coil):	**89.2 / 72.4** F	Air Velocity:	**250** fpm
Leaving Air DB / WB (Coil):	**52.6 / 52.2** F	Coil Air PD:	**0.19** in H2O
Leaving Air DB / WB (Reheat):	**99 / 68.94** F	EER:	**9.8**
Leaving Air DB / WB (Unit):	**101.7 / 69.8** F	Watts:	**22562**
Leaving DP:	**51.7** F	MRE:	**3.65** lb/kWh
MRC:	**82.41** lb/h		

Heating Performance

Heat Type:	**Hot Water**	Rows:	**2**	Entering Fluid Temp:	**180** F
Capacity:	**218.3** MBh	FPI:	**12**	Leaving Fluid Temp:	**140** F
Entering Air DB:	**50** F	Fluid Flow:	**11.1** GPM	Fluid Type:	**Water**
Leaving Air DB:	**103.8** F	Fluid PD:	**0.2** ft, H2O	Percent Glycol:	**0** %
Air Velocity:	**406** fpm	Fluid Velocity:	**0.7** ft/s		
Coil Air PD:	**0.12** in H2O				

RTU-2 DETAIL
SCALE: NOT TO SCALE

Product Data - Horizon™ - Outdoor Air Unit (OAB)

Size	Qty	Description	Model Number
B096	1	Horizon™ - Outdoor Air Unit (OAB)	OABD096D3-C1B4G1KG-J5F09AG1KG5A12B0C4A0

Tag(s): ERU-1

Unit Voltage: 208-3-60
Airflow Configuration: Horizontal Discharge/Horizontal Return
Installation: Outdoor
Hot Water Coil: 2-Row
Evaporator Coil: DX 4 Row Interlaced
Hot Gas Reheat: Modulating
Compressor: Digital Scroll Primary Circuit
Condenser: Air Cooled Variable Speed Head Pressure Low Ambient Control
Capacity Control: R-454B - Low GWP Refrigerant & No RCC Valve
Indoor Blower Motor: Direct Drive w/VFD
Heat Type: Hot Water
Fuel Type: Hot Water
Coastal Corrosion Package: Corrosion Resistant Package w/ Aux
Unit Controls: Trane UC600 - Space Control w/BACNET w/Display
Powered Exhaust: Direct Drive w/VFD & Gravity Damper
ERV/HRV: ERV - Polymer Construction w/ Bypass Dampers
Energy Recovery & Conservation: ERC-3014C
Damper Options: Modulating OA/RA Damper for Economizer Control
Filters: MERV-8
Electrical Options: Non-Fused Disconnect Switch "Circuit Breaker" w/ 115v Outlet (OAB)
Air Flow Monitoring: IFM Piezo Ring and PE Piezo Ring/Tap
Accessories: Condenser Hailguard
Curb Selection: Aux Mod Knockdown Curb
Warranty: 1-Year Labor DX Electric Heat / Hot Water Heat
Warranty: 1-Year Parts Only (manufacturer warranty)
Warranty: 5-Year Digital/Variable Speed Scroll Compressor
Supply Discharge Air Sensor (FLD)
2 inch Double Wall Construction
Stainless Steel Drip Pan
Blower HP - 1.5
Blower RPM - 2290
Supply Fan - CF140.6
Exhaust RPM - 2316
Exhaust HP - 1.5
Exhaust Fan - CF140.6
Unit Amps - FLA: 42.9 Amps
Min Circuit Ampacity - MCA: 49.3 Amps
Maximum Overcurrent Protection - MOCP: 70 Amps

TRANE

Project Name: **Afton CSD CapEx Reno** Tag: **ERU-1**

Comments:

Unit Information

Model:	**Horizon™ (OAB Rev5)**	Unit Length:	**161** in	Weight Operating:	**1979** lb*
Size:	**B096**	Unit Width:	**52** in	***Note:***	***Weight does not include CURB weight. See CURB submittal for actual***
Quantity:	**1**	Unit Height:	**55** in		
Supply Airflow:	**1,400** CFM	Elevation:	**300** ft	**Refrigerant Charge - R-454B**	
Outside Airflow:	**1,400** CFM	Ambient Air DB:	**95** F	Circuit 1:	**14.6** lbs
Minimum Airflow:	**747** CFM				

Cooling Performance

Gross Total Capacity:	**80.5** MBh	Evaporator Face Area:	**6.79** sq ft
Gross Sensible Capacity:	**50.1** MBh	Evaporator Rows / FPI:	**4 / 14**
Net Total Capacity:	**77.8** MBh	Condenser Face Area:	**12.96** sq ft
Net Sensible Capacity:	**47.4** MBh	Condenser Rows / FPI :	**5 / 12**
Entering Air DB / WB (Coil):	**79.7 / 66.7** F	Air Velocity:	**206** fpm
Leaving Air DB / WB (Coil):	**46.1 / 45.9** F	Coil Air PD:	**0.12** in H2O
Leaving Air DB / WB (Reheat):	**77.8 / 59.23** F	EER:	**14.8**
Leaving Air DB / WB (Unit):	**79.9 / 60** F	Watts:	**8613**
Leaving DP:	**45.5** F	MRE:	**6.11** lb/kWh
MRC:	**52.62** lb/h		

Heating Performance

Heat Type:	**Hot Water**	Rows:	**2**	Entering Fluid Temp:	**180** F
Capacity:	**77.7** MBh	FPI:	**14**	Leaving Fluid Temp:	**140** F
Entering Air DB:	**52.8** F	Fluid Flow:	**3.96** GPM	Fluid Type:	**Water**
Leaving Air DB:	**103.6** F	Fluid PD:	**0.2** ft, H2O	Percent Glycol:	**0** %
Air Velocity:	**458** fpm	Fluid Velocity:	**0.6** ft/s		
Coil Air PD:	**0.18** in H2O				

ERU-1 DETAIL
SCALE: NOT TO SCALE

Product Data - Horizon™ - Outdoor Air Unit (OAB)

Size	Qty	Description	Model Number
B096	1	Horizon™ - Outdoor Air Unit (OAB)	OABD096D3-C1B4G1KG-J5F09AG1KG5A12B0C4A0

Tag(s): ERU-2

Unit Voltage: 208-3-60
Airflow Configuration: Horizontal Discharge/Horizontal Return
Installation: Outdoor
Hot Water Coil: 2-Row
Evaporator Coil: DX 4 Row Interlaced
Hot Gas Reheat: Modulating
Compressor: Digital Scroll Primary Circuit
Condenser: Air Cooled Variable Speed Head Pressure Low Ambient Control
Capacity Control: R-454B - Low GWP Refrigerant & No RCC Valve
Indoor Blower Motor: Direct Drive w/VFD
Heat Type: Hot Water
Fuel Type: Hot Water
Coastal Corrosion Package: Corrosion Resistant Package w/ Aux
Unit Controls: Trane UC600 - Space Control w/BACNET w/Display
Powered Exhaust: Direct Drive w/VFD & Gravity Damper
ERV/HRV: ERV - Polymer Construction w/ Bypass Dampers
Energy Recovery & Conservation: ERC-3014C
Damper Options: Modulating OA/RA Damper for Economizer Control
Filters: MERV-8
Electrical Options: Non-Fused Disconnect Switch "Circuit Breaker" w/ 115v Outlet (OAB)
Air Flow Monitoring: IFM Piezo Ring and PE Piezo Ring/Tap
Accessories: Condenser Hailguard
Curb Selection: Aux Mod Knockdown Curb
Warranty: 1-Year Labor DX Electric Heat / Hot Water Heat
Warranty: 1-Year Parts Only (manufacturer warranty)
Warranty: 5-Year Digital/Variable Speed Scroll Compressor
Supply Discharge Air Sensor (FLD)
2 inch Double Wall Construction
Stainless Steel Drip Pan
Blower HP - 1.5
Blower RPM - 2290
Supply Fan - CF140.6
Exhaust RPM - 2316
Exhaust HP - 1.5
Exhaust Fan - CF140.6
Unit Amps - FLA: 42.9 Amps
Min Circuit Ampacity - MCA: 49.3 Amps
Maximum Overcurrent Protection - MOCP: 70 Amps

TRANE

Project Name: **Afton CSD CapEx Reno** Tag: **ERU-2**

Comments:

Unit Information

Model:	**Horizon™ (OAB Rev5)**	Unit Length:	**161** in	Weight Operating:	**1979** lb*
Size:	**B096**	Unit Width:	**52** in	***Note:***	***Weight does not include CURB weight. See CURB submittal for actual***
Quantity:	**1**	Unit Height:	**55** in		
Supply Airflow:	**1,400** CFM	Elevation:	**300** ft	**Refrigerant Charge - R-454B**	
Outside Airflow:	**1,400** CFM	Ambient Air DB:	**95** F	Circuit 1:	**14.6** lbs
Minimum Airflow:	**747** CFM				

Cooling Performance

Gross Total Capacity:	**80.5** MBh	Evaporator Face Area:	**6.79** sq ft
Gross Sensible Capacity:	**50.1** MBh	Evaporator Rows / FPI:	**4 / 14**
Net Total Capacity:	**77.8** MBh	Condenser Face Area:	**12.96** sq ft
Net Sensible Capacity:	**47.4** MBh	Condenser Rows / FPI :	**5 / 12**
Entering Air DB / WB (Coil):	**79.7 / 66.7** F	Air Velocity:	**206** fpm
Leaving Air DB / WB (Coil):	**46.1 / 45.9** F	Coil Air PD:	**0.12** in H2O
Leaving Air DB / WB (Reheat):	**77.8 / 59.23** F	EER:	**14.8**
Leaving Air DB / WB (Unit):	**79.9 / 60** F	Watts:	**8613**
Leaving DP:	**45.5** F	MRE:	**6.11** lb/kWh
MRC:	**52.62** lb/h		

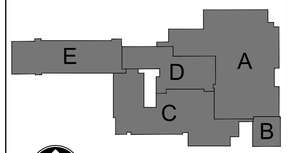
Heating Performance

Heat Type:	**Hot Water**	Rows:	**2**	Entering Fluid Temp:	**180** F
Capacity:	**77.7** MBh	FPI:	**14**	Leaving Fluid Temp:	**140** F
Entering Air DB:	**52.8** F	Fluid Flow:	**3.96** GPM	Fluid Type:	**Water**
Leaving Air DB:	**103.6** F	Fluid PD:	**0.2** ft, H2O	Percent Glycol:	**0** %
Air Velocity:	**458** fpm	Fluid Velocity:	**0.6** ft/s		
Coil Air PD:	**0.18** in H2O				

ERU-2 DETAIL
SCALE: NOT TO SCALE

HIGHLAND ASSOCIATES
architecture | engineering | interior design
102 Highland Avenue
Clarks Summit, PA 18411
570-586-4334
www.highlandassociates.com
New York • Pennsylvania

REVISION NO:



KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

MECHANICAL DETAILS

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

M-302

CAD FILE: 5005-M-302.DWG PLOT DATE: 11/11/2025

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LW Series Dehumidifiers

PRODUCT SCOPE

Quantity: 1
Model #: LW15RNNN7
Tag #: DHU-1
Unit Weight: 2050 lbs

Capacities:
- Supply Air: 6000 CFM
- Outside Air: 2000 CFM
  Dehumidification
- EAT: 75.0 °F DB / 62.5 °F WB
- Total Cooling Capacity: 163 MBH
- Total Sensible Capacity: 109.93 MBH
- Moisture Removal Capacity: 50.6 lb/hr
- Total Heat of Rejection: 208 MBH

DX Refrigeration System:
- Refrigerant Type: R-454B
- Scroll Compressor(s), Nominal Tons: 15
- Hot Gas Reheat Condenser Coil
- Coil Coating: Coated
- Receiver w/ Flooding Valve
- Evaporator Coil Defrost
- Remote Option: Remote Air Cooled

Supply Airflow Configuration:
- Supply Discharge Location: Top
- Outdoor Intake Location: Horizontal
- Supply ESP: 1.0 in WC
- Supply TSP: 1.72 in WC

Air Filters:
- Supply Filters: Standard

Enclosure:
- Location: Indoor
- Separate Electrical Compartment
- Galvanneal with Powder Coat Finish

Condensate Drain Pan:
- 20-Gauge Stainless Steel, Sloped

Unit Electrical:
- Main Power (V/Ph/Hz): 208/3/60
- MCA (Amps): 77
- MOPD (Amps): 125
- SCCR (kA): 65
  When protected by Class J, T, or RK1 fuses

Controls:
- Model CM3540
- Temp & RH Sensors: Installed in unit by Desert Aire
- Occupancy Timer w/ BMS Override
- Remote Display Terminal: Included
- BMS Compatibility: BACnet MSTP

Air Cooled Condenser:
- Model #: RCDB3VPNN-30414PNNA
- # of Fans: 2
- Unit Weight: 684.4 lbs
- Voltage/Phase/Hz - 208/230-3-60
- MCA (Amps): 9.7
- MOPD (Amps): 12
- SCCR (Amps): 65kA
- Rated Ambient Condition - 100 °F
- Coil - Cu Tubing w/ Al Fins

Warranties (Parts Only):
- Standard Warranty: 2 years
- Compressor Warranty: 5 Years
- Air Side Coil Warranty: 5 Years

MCA/MOPD Calculation

0

Project Afton K-12 School DHU
Tag DHU-1

Series LW15
Aux Heat No Aux Heat Selected
Refrigerant R-454B

S/A Airflow	6000	cfm @ 1.0	in ESP
S/A Blower Motor (ea)	5	HP	
S/A Blower Motor (qty)	1		
E/A Airflow	0	cfm @	
E/A Blower Motor (ea)	0.0	HP	
E/A Blower Motor (qty)	0		
Pkgd Cond Motor (ea)	0	HP	
Pkg Cond Motor (qty)	0		
Ext. Source Capture Mtr	0	HP	

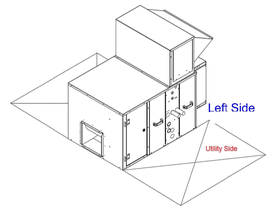
Voltage 208/3/60

	FLA
Compressor 1	49.0
Compressor 2	0.0
Compressor 3	0.0
Compressor 4	0.0
S/A Blwr Motor (ea)	13.8
E/A Blwr Motor (ea)	0.0
Pkgd Cond Motor (ea)	0
Ext. Source Capture Mtr	0
Electric Heater (single point)	N/A
Total Transformer (VA)	250

Unit MCA	77	Amps
Unit MOPD	125	Amps

LW Series Dehumidifiers

UNIT CONNECTIONS & CLEARANCES



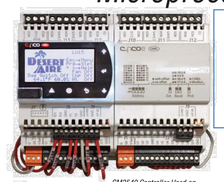
Utility	Location
Electrical	Left Side
Return Filter	Both Left & Right Sides
Service Access	Both Left & Right Sides
Remote Condenser Refrigerant Lines	Left Side
Condensate Drain	Left Side
Supply Air Discharge	Top
Outdoor Intake	Horizontal

Notes
1. Electrical door clearance typically requires a minimum of 36" clearance on Utility side shown. Refer to local codes.
2. 36" clearance recommended around all sides of the dehumidifier for maintenance and service access.
3. Install the unit on a sturdy, level mounting base or a platform that will prevent vibration and sound transmission.
4. Left or Right Side is when you are looking into the return air filters.

CM3540 Series Controller for LW Dehumidifiers

• ADVANCED COMMUNICATIONS CAPABILITIES • EASY INSTALLATION AND OPERATION • CONTINUOUS MONITORING

Advanced LW Microprocessor Controller



CM3540 Controller Used on LW Dehumidifier

Optional CM3540 Series Remote Display Terminal (RDT)

Wall Mount Temperature & Humidity Sensor

Integral Return Air Temperature and Humidity Sensor

c UL us

FEATURES

- *Standard integral return air sensor for control*
- *Optional wall mounted sensor for use when fan cycling is desired*
- *LCD interface terminal in control panel*
- *Optional remote display terminal (RDT)*
- *Built-in cloud based remote monitoring*

DESCRIPTION

The CM3540 controllers are uniquely programmed for each Desert Aire application providing energy efficient moisture removal and precise temperature and humidity control.

The CM3540 controller offers an easy interface with building management systems (BMS) with on-board or pre-configured gateway modules. Modbus RTU TCP/IP are standard. BACnet® MS/TP and BACnet® Ethernet are onboard and can be activated with optional licenses. A LonTalk gateway is available that can connect a LonWorks system to the controls.

An integral user interface is standard with the CM3540 controls. This is located on the face of the controller in the unit electrical compartment. An optional Remote Display Terminal is available where access to the electrical panel is difficult or a secondary display in a remote location is desired. These backlit LCD displays provide easy to navigate screens for setpoint adjustment and unit monitoring. All Inputs and Outputs along with alarm history can be viewed from either user interface to aid in unit or system diagnostics.

ORDER OPTIONS

Controller with Wall Mount Sensor
☐ CA3540-3-WALL Wall Mount Temp and RH Sensor

Controller with RDT
☐ CA3540-3-OD Remote Display Terminal
RDT = remote display terminal with 20ft. cord

All trademarks hereby referenced are the property of their respective owners.

RCD SERIES

The RCD range of condensers is sized up to 14.6 MBH/°F of heat rejection. The EC fans are controlled using PID to maintain a condenser pressure set point. Control panels are rated for 65 kA SCCR when power is supplied with class J fuses.

STANDARD FEATURES
- Powder coated galvannealed steel cabinet
- Folding legs, for compact shipping and easy installation
- Terminal block for power connection

OPTIONAL FEATURES
- Coated coil
- Vertical orientation with horizontal airflow
- Non-fused or fused disconnect

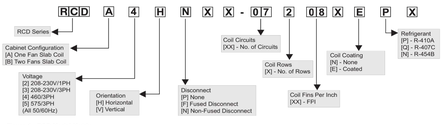
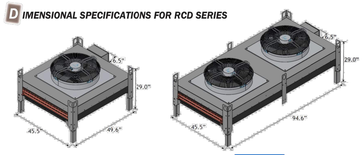


Figure 1 - RCD Model Matrix

DIMENSIONAL SPECIFICATIONS FOR RCD SERIES



		RCDA**NN03108***	RCDA**NN07208***	RCDA**NN18414***	RCDB**NN30414***
DIMENSIONS	Connection[1] Size (in) Discharge	7/8	7/8	7/8	7/8
	Liquid	7/8	7/8	7/8	7/8
	Fan Layout	1x1	1x1	1x1	1x2
	Mounting Holes (in)	42.9 x 46.1 (Ø3/8)	42.9 x 46.1 (Ø3/8)	42.9 x 46.1 (Ø3/8)	42.9 x 91.3 (Ø3/8)
	Approximate Weight (lbs)[2]	377	384	397	684
	dBa[3]	40-68	40-68	40-68	40-69

[1] *Connection size does not indicate line size. Consult IO Manual.*
[2] *Add 49lbs for 575V applications.*
[3] *Listed dBA values are sound ratings for the maximum number of fans in operation per RC at 3m in accordance with AHRI standard 370-2001. Range indicates maximum and minimum sound intensities across each RC's application range.*

ELECTRICAL SPECIFICATIONS AND PERFORMANCE TABLE FOR RCD SERIES

		RCDA**NN03108***	RCDA**NN07208***	RCDA**NN18414***	RCDB**NN30414***
ELECTRICAL	208-230V 1PH 60Hz FLA	6.9	6.9	6.9	2 x 6.9
	MCA	8.6	8.6	8.6	15.5
	MOPD[1]	15.0	15.0	15.0	20.0
	Unit kW	0.75	0.75	0.75	1.5
	208-230V 3PH 60Hz FLA	4.3	4.3	4.3	2 x 4.3
	MCA	5.4	5.4	5.4	9.7
	MOPD[1]	9.0	9.0	9.0	12.0
	Unit kW	1.1	1.1	1.1	2.2
	460V 3PH 60Hz FLA	4.3	5.2	5.2	2 x 5.2
	MCA	5.4	6.5	6.5	11.7
	MOPD[1]	9.0	10.0	10.0	15.0
	Unit kW	1.1	3.2	3.2	6.4
	575V 3PH 60Hz FLA	4.3	5.2	5.2	2 x 5.2
	MCA	7.5	7.5	7.5	11.3
	MOPD[1]	12.0	12.0	12.0	20.0
	Unit kW	1.1	3.2	3.2	6.4

[1] *MOPD - Maximum Overcurrent Protection Device.*

		RCDA**NN03108***	RCDA**NN07208***	RCDA**NN18414***	RCDB**NN30414***
NOMINAL PERFORMANCE (ARI/°F)	208-230V 1PH R-410A	1.55	2.81	5.50	11.12
	R-407C	1.55	2.81	5.50	11.12
	R-454B	1.49	2.69	5.26	10.62
	208-230V 3PH R-410A	1.64	2.94	5.80	11.73
	R-407C	1.64	2.94	5.80	11.73
	R-454B	1.57	2.81	5.55	11.20
	460 & 575V 3PH R-410A	1.64	3.97	8.17	14.58
	R-407C	1.64	3.97	8.17	14.58
	R-454B	1.57	3.81	7.82	15.62

0

LW Pool Dehumidifier

UNIT TAG	DHU-1
UNIT MANUFACTURE	DESERT AIRE
MODEL NO	LW15
LOCATION	Indoor
UNIT WEIGHT	2050 lbs.
FAN DATA	
SUPPLY AIR FLOW - CFM	6,000
S/A FAN ESP (in. W.C)	1.0
TSP (in. W.C)	1.72
S/A FAN HP	5.00
OUTSIDE AIR FLOW - CFM	2000
PERFORMANCE	
EAT DB | WB (°F)	75.0 | 62.5
MOISTURE REMOVAL CAPACITY - LB/HR	50.6
TOTAL COOLING CAP BTUH	163,394
TOTAL SENSIBLE CAP BTUH	109,929
THR BTUH	207,656
UNIT ELECTRICAL	
VOLTAGE	208/3/60
MOPD	125
MCA	77
SHORT CIRCUIT CURRENT RATING (SCCR)	65
REMOTE CONDENSER DATA	
MODEL NUMBER	RCDB3VPNN-30414PNNA
AMBIENT TEMPERATURE (°F)	100.0
NO. OF FANS	2
WEIGHT	684.4
VOLTAGE	208-230/3/60
MCA	9.7
MOPD	12
SHORT CIRCUIT CURRENT RATING (SCCR)	65kA

DHU-1, CU-DHU-1 DETAIL

SCALE: NOT TO SCALE

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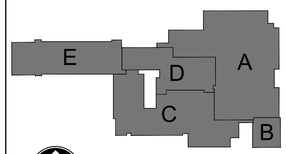

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

MECHANICAL DETAILS

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

M-303

CAD FILE: 5005-M-303.DWG PLOT DATE: 11/11/2025

J:\2025-005 Afton CSD 2024 Capital Project__CAD\eng\5005-M-303.dwg, 11/11/2025 8:56:06 AM, _DWG To PDF.pc3

KitchenAid®

30" (76.2 CM) AND 36" (91.4 CM) WALL-MOUNT CANOPY RANGE HOOD

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or visit our website at **www.kitchenaid.ca**.

HOTTE DE CUISINIÈRE CONFIGURÉE EN ÎLOT À MONTAGE MURAL 30" (76,2 CM) ET 36" (91,4 CM)

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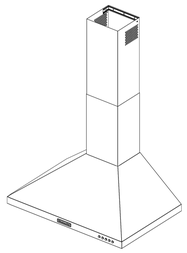

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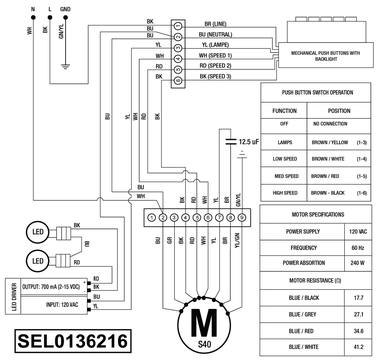
WIRING DIAGRAM



PUSH BUTTON SWITCH OPERATION	
FUNCTION	POSITION
OFF	NO CONNECTION
LAMPS	BROWN / YELLOW (1-3)
LOW SPEED	BROWN / WHITE (1-4)
MED SPEED	BROWN / RED (1-5)
HIGH SPEED	BROWN - BLACK (1-6)

MOTOR SPECIFICATIONS	
POWER SUPPLY	120 VAC
FREQUENCY	60 Hz
POWER ABSORPTION	240 W
MOTOR RESISTANCE (Ω)	
BLUE / BLACK	17.7
BLUE / GREY	27.1
BLUE / RED	34.6
BLUE / WHITE	41.2

SEL0136216

Air System Sizing Summary for LC Zone 2 Only

Project Name: 2025-005P
Prepared by: Highland Associates
05/12/2025
01:21PM

Air System Information

Air System Name	LC Zone 2 Only	Number of zones	1
Equipment Class	PKG ROOF	Floor Area	390.0 ft²
Air System Type	VAV	Location	Binghamton, New York

Sizing Calculation Information

Calculation Months	Jan to Dec	Zone CFM Sizing	Peak zone sensible load
Sizing Data	Calculated	Space CFM Sizing	Individual peak space loads

Central Cooling Coil Sizing Data

Total coil load	4.0	Tons	Load occurs at	Jul 1500	
Total coil load	48.6	MBH	OA DB / WB	95.0 / 76.0	°F
Sensible coil load	36.5	MBH	Entering DB / WB	75.8 / 62.9	°F
Coil CFM at Jul 1500	1542	CFM	Leaving DB / WB	52.6 / 51.5	°F
Max block CFM at Jul 1500	1603	CFM	Coil ADP	50.0	°F
Sum of peak zone CFM	1603	CFM	Bypass Factor	0.100	
Sensible heat ratio	0.750		Resulting RH	50	%
CFM/Ton	350.8		Design supply temp	55.0	°F
ft²/Ton	96.3		Zone T-stat Check	1 of 1	OK
BTU/(hr·ft²)	124.6		Max zone temperature deviation	0.0	°F
Water flow @ 10.0 °F rise	N/A				

Central Heating Coil Sizing Data

Max coil load	5.8	MBH	Load occurs at	May 0500	
Coil CFM at May 0500	1519	CFM	BTU/(hr·ft²)	14.0	
Max coil CFM	1603	CFM	Ent. DB / Lvg DB	52.4 / 56.1	°F
Water flow @ 20.0 °F drop	N/A				

Supply Fan Sizing Data

Actual max CFM at Jul 1500	1603	CFM	Fan motor BHP	0.00	BHP
Standard CFM	1510	CFM	Fan motor kW	0.00	kW
Actual max CFM/ft²	4.11	CFM/ft²	Fan static	0.00	in wg

Outdoor Ventilation Air Data

Design airflow CFM	177	CFM	CFM/person	13.60	CFM/person
CFM/ft²	0.45	CFM/ft²			

Hourly Analysis Program 5.10 — Page 1 of 10

Air System Sizing Summary for SC-5/CU-5

Project Name: 2025-005P
Prepared by: Highland Associates
06/27/2025
12:33PM

Air System Information

Air System Name	SC-5/CU-5	Number of zones	1
Equipment Class	PKG ROOF	Floor Area	33.0 ft²
Air System Type	SZCAV	Location	Binghamton, New York

Sizing Calculation Information

Calculation Months	Jan to Dec	Zone CFM Sizing	Sum of space airflow rates
Sizing Data	Calculated	Space CFM Sizing	Individual peak space loads

Central Cooling Coil Sizing Data

Total coil load	1.0	Tons	Load occurs at	Jul 1500	
Total coil load	11.5	MBH	OA DB / WB	95.0 / 76.0	°F
Sensible coil load	11.4	MBH	Entering DB / WB	65.7 / 59.4	°F
Coil CFM at Jul 1500	1241	CFM	Leaving DB / WB	56.6 / 56.0	°F
Max block CFM	1241	CFM	Coil ADP	55.6	°F
Sum of peak zone CFM	1241	CFM	Bypass Factor	0.100	
Sensible heat ratio	0.994		Resulting RH	70	%
CFM/Ton	1293.8		Design supply temp	55.0	°F
ft²/Ton	34.4		Zone T-stat Check	0 of 1	OK
BTU/(hr·ft²)	348.9		Max zone temperature deviation	0.1	°F
Water flow @ 10.0 °F rise	N/A				

Central Heating Coil Sizing Data

Max coil load	0.2	MBH	Load occurs at	Des Htg	
Coil CFM at Des Htg	1241	CFM	BTU/(hr·ft²)	5.6	
Max coil CFM	1241	CFM	Ent. DB / Lvg DB	62.9 / 63.0	°F
Water flow @ 20.0 °F drop	N/A				

Supply Fan Sizing Data

Actual max CFM	1241	CFM	Fan motor BHP	0.00	BHP
Standard CFM	1170	CFM	Fan motor kW	0.00	kW
Actual max CFM/ft²	37.62	CFM/ft²	Fan static	0.00	in wg

Outdoor Ventilation Air Data

Design airflow CFM	2	CFM	CFM/person	0.00	CFM/person
CFM/ft²	0.08	CFM/ft²			

Hourly Analysis Program 5.10 — Page 1 of 10

H-1, H-2 DETAIL (30 INCH, WALL-MOUNT, 3-SPEED CANOPY HOOD, DUCTED TO OUTDOORS)

SCALE: NOT TO SCALE

RTU-2/SC-4/CU-4 LOAD CALCULATION

NOT TO SCALE

SC-5/CU-5 LOAD CALCULATION

NOT TO SCALE

CODE MINIMUM VENTILATION COMPLIANCE SCHEDULE

EQUIPMENT TAG	AREA SERVED	CODE MINIMUM OA CFM	ACTUAL OA CFM	REMARKS
AHU-2-EX	AG LAB - KITCHEN AG LAB - AGRICULTURE AREA	823	909	3
RTU-1	AGRICULTURE	517	8000	-
AHU-2-EX	MEDIA CENTER 025	529	530	3
RTU-2	LEARNING COMMONS	924	2700	-
DHU-1	POOL MECHANICAL ROOM	532	2000	-
ERU-1	GIRLS LOCKER ROOM	490	1400	-
ERU-2	BOYS LOCKER ROOM	538	1400	-
SC-1/UV-138-EX	IT CENTER	95	420	2
SC-2/UV-128-EX	ESPORTS	116	150	1
PDU-1	POOL ROOM	4032	6270	-

REMARKS:

1. OUTSIDE AIR IS FED FROM EXISTING (UV-128-EX) 150 CFM OA.
2. OUTSIDE AIR IS FED FROM UV-138-EX.
3. AHU-2-EX SHALL BE 40.382% OUTSIDE AIR.

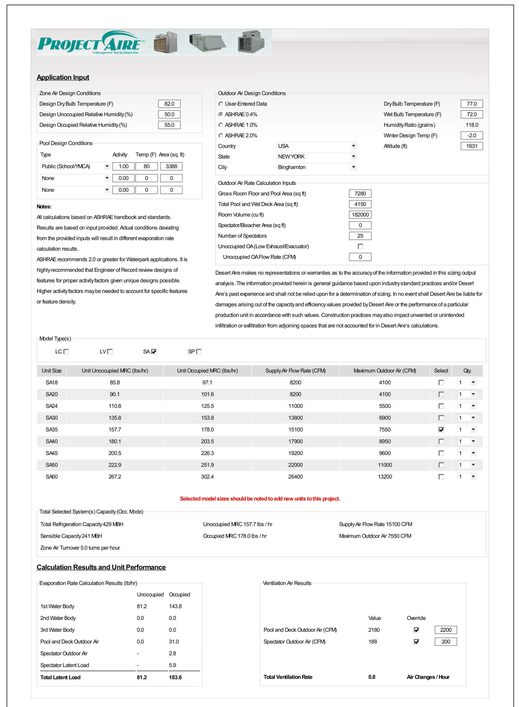
GPM TALLY

EQUIPMENT TAG	AREA SERVED	GPM	REMARKS
RTU-1	AGRICULTURE	34.5	-
RTU-2	LEARNING COMMONS	11.1	-
ERU-1	GIRLS LOCKER ROOM	3.96	-
ERU-2	BOYS LOCKER ROOM	3.96	-
TOTAL	ALL AREAS LISTED ABOVE	53.52	-

CH-1 Chiller GPM Tally (2001 to 2022)

2001				2010				2022			
Equipment	Location	Valve	GPM	Equipment	Location	Valve	GPM	Equipment	Location	Valve	GPM
AHU-1	Penthouse	-	0	AHU-1	Penthouse	-	0	AHU-1	Penthouse	3 Way	95
AHU-2	Penthouse	-	105	AHU-2	Penthouse	-	105	AHU-2	Penthouse	3 Way	105
AHU-3	Penthouse	-	166	AHU-3	Penthouse	-	166	AHU-3	Penthouse	2 Way	166
AHU-6	Roof	-	93.02	AHU-6	Roof	-	93.02	AHU-6	Roof	2 Way	93.02
		TOTAL	364.02			TOTAL	364.02			TOTAL	459.02

NOTES:
1. CHILLED WATER CONTAINS 30% PROPYLENE GLYCOL.
2. CHWP-1 and CHWP-2 were replaced in 2021.



PDU-1, CU-PDU-1 LOAD CALCULATION

SCALE: NOT TO SCALE

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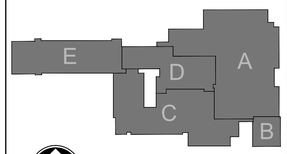
REVISION NO:	
ADDENDUM #3	10/29/25

- NYSED REVIEW COMMENTS



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Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

MECHANICAL DETAILS

DRAWN BY:	CHECKED BY:
B.H.	M.P.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

M-304

CAD FILE: 5005-M-304.DWG PLOT DATE: 11/11/2025

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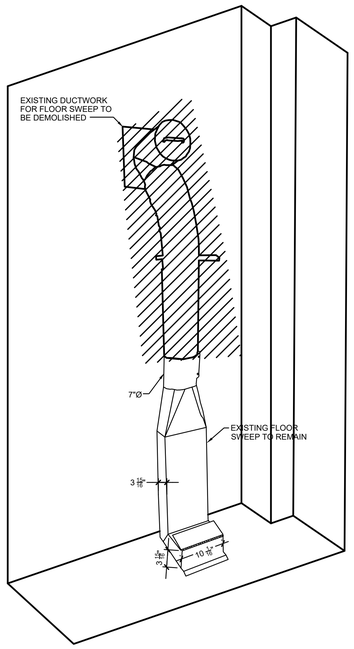
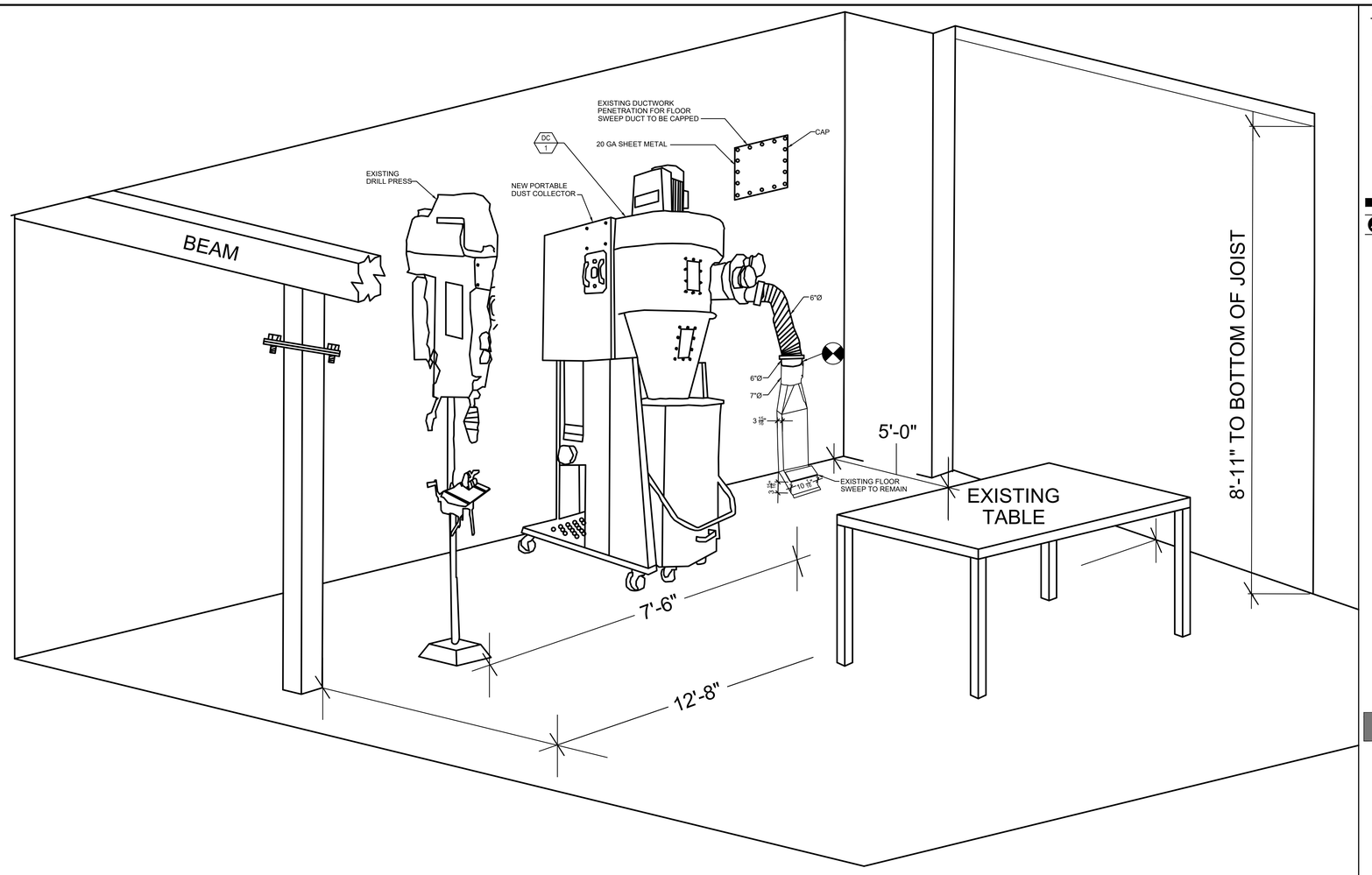


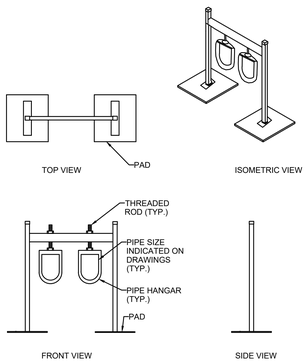
SHOP FLOOR SWEEP DEMO DETAIL

NOT TO SCALE



SHOP FLOOR SWEEP RENO DETAIL

NOT TO SCALE



NOTE: BASIS OF DESIGN: MIRO 8H

BASIS OF DESIGN: MIRO 8H: NOTES AND ACCESSORIES:

ACCESSORIES
- 16 x 18 Support pad
- Cross bracing

KEY INFORMATION
- The 8H series support is designed and engineered to project specific requirements provided to MIRO Industries.
- Maximum loading from any MIRO base to the finished roof surface is not to exceed 3.0 psi (578 lbs/base) unless specifically allowed otherwise in the project specification.
- Deflection in the horizontal header bar is not to exceed the span length by 360 or 1/8".
- Frame is designed for gravity loading only.
- Recommended horizontal support spacing is not to exceed 10 feet centers or as required by the applicable design code or project specifications.
- Contractor is to ensure each pipestand is properly elevated to evenly distribute loading at all pipestands.
- Frame is made with 12 ga slotted strut; Support legs are 1-5/8"x1-5/8" and header bar is either 1-5/8" x 1-5/8" or 1-5/8"x3-1/4".
- Base material is polycarbonate
- All metal parts are hot dip galvanized

PRODUCT DESCRIPTION
Pipe supports for multiple pipes at various heights.
To obtain pricing for the 8H model, call your local representative and have the following information available:
1. Specify quantity of supports needed or provide a rooftop pipe layout drawing and MIRO Ind. will provide a quote with a support layout drawing.
2. Type of pipe being supported (Sch. 40 Steel)
3. Pipe sizes (trade size)
4. Pipe content (liquid or gas)
5. Centerline distance between pipes (CL)
6. Height off roof (HOR)
7. Pipe insulation thickness.
8. Preferred hanger type (Clevis, Roller, Band or Trapeze)

ROOFTOP CHILLED WATER PIPE SUPPORT DETAIL

NOT TO SCALE

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REVISION NO:

1	ADDENDUM #2	10/10/25

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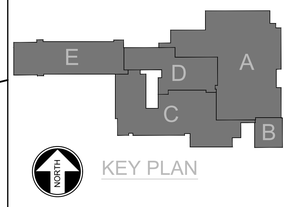

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

MECHANICAL SCHEDULES AND DETAILS

DRAWN BY:	CHECKED BY:
F.G.	M.P.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

M-305

CAD FILE: 5005-M-305.DWG PLOT DATE: 5/27/2025

Air System Sizing Summary for RTU-1

Project Name: 2025-005P — 06/27/2025
Prepared by: Highland Associates — 12:11PM

Air System Information

Air System Name	RTU-1	Number of zones	5
Equipment Class	PKG ROOF	Floor Area	3074.0 ft²
Air System Type	VAV	Location	Binghamton, New York

Sizing Calculation Information

Calculation Months	Jan to Dec	Zone CFM Sizing	Peak zone sensible load
Sizing Data	User-Modified	Space CFM Sizing	Individual peak space loads

Central Cooling Coil Sizing Data

Total coil load	24.9	Tons	Load occurs at	Jul 1500	
Total coil load	298.2	MBH	OA DB / WB	95.0 / 76.0	°F
Sensible coil load	165.2	MBH	Entering DB / WB	95.0 / 76.0	°F
Coil CFM at Jul 1500	3867	CFM	Leaving DB / WB	53.0 / 51.9	°F
Max block CFM	8000	CFM	Coil ADP	48.3	°F
Sum of peak zone CFM	4022	CFM	Bypass Factor	0.100	
Sensible heat ratio	0.554		Resulting RH	55	%
CFM/Ton	155.6		Design supply temp.	55.0	°F
ft²/Ton	123.7		Zone T-stat Check	5 of 5	OK
BTU/(hr·ft²)	97.0		Max zone temperature deviation	0.0	°F
Water flow @ 10.0 °F rise	N/A				

Central Heating Coil Sizing Data

Max coil load	20.0	MBH	Load occurs at	May 0500	
Coil CFM at May 0500	3613	CFM	BTU/(hr·ft²)	6.5	
Max coil CFM	8000	CFM	Ent. DB / Lvg DB	50.3 / 55.7	°F
Water flow @ 20.0 °F drop	N/A				

Preheat Coil Sizing Data

Max coil load	134.3	MBH	Load occurs at	Des Htg	
Coil CFM at Des Htg	1885	CFM	Ent. DB / Lvg DB	-10.0 / 60.0	°F
Max coil CFM	8000	CFM			
Water flow @ 20.0 °F drop	13.43	gpm			

Supply Fan Sizing Data

Actual max CFM	8000	CFM	Fan motor BHP	0.00	BHP
Standard CFM	7540	CFM	Fan motor kW	0.00	kW
Actual max CFM/ft²	2.60	CFM/ft²	Fan static	0.00	in wg

Outdoor Ventilation Air Data

Design airflow CFM	8000	CFM	CFM/person	142.86	CFM/person
CFM/ft²	2.60	CFM/ft²			

Hourly Analysis Program 5.10 — Page 1 of 19

RTU-1 (AGRICULTURE LAB) LOAD CALC
NOT TO SCALE

Air System Sizing Summary for RTU-2

Project Name: 2025-005P — 06/27/2025
Prepared by: Highland Associates — 12:11PM

Air System Information

Air System Name	RTU-2	Number of zones	1
Equipment Class	PKG ROOF	Floor Area	1650.0 ft²
Air System Type	VAV	Location	Binghamton, New York

Sizing Calculation Information

Calculation Months	Jan to Dec	Zone CFM Sizing	Peak zone sensible load
Sizing Data	User-Modified	Space CFM Sizing	Individual peak space loads

Central Cooling Coil Sizing Data

Total coil load	19.9	Tons	Load occurs at	Jul 1500	
Total coil load	238.5	MBH	OA DB / WB	95.0 / 76.0	°F
Sensible coil load	137.3	MBH	Entering DB / WB	89.2 / 72.4	°F
Coil CFM at Jul 1500	3558	CFM	Leaving DB / WB	51.2 / 50.2	°F
Max block CFM	3703	CFM	Coil ADP	47.0	°F
Sum of peak zone CFM	3703	CFM	Bypass Factor	0.100	
Sensible heat ratio	0.576		Resulting RH	50	%
CFM/Ton	179.1		Design supply temp.	55.0	°F
ft²/Ton	83.3		Zone T-stat Check	1 of 1	OK
BTU/(hr·ft²)	144.0		Max zone temperature deviation	0.0	°F
Water flow @ 10.0 °F rise	N/A				

Central Heating Coil Sizing Data

Max coil load	25.9	MBH	Load occurs at	Oct 0800	
Coil CFM at Oct 0800	3364	CFM	BTU/(hr·ft²)	15.7	
Max coil CFM	3703	CFM	Ent. DB / Lvg DB	49.9 / 57.4	°F
Water flow @ 20.0 °F drop	N/A				

Supply Fan Sizing Data

Actual max CFM	3703	CFM	Fan motor BHP	0.00	BHP
Standard CFM	3490	CFM	Fan motor kW	0.00	kW
Actual max CFM/ft²	2.24	CFM/ft²	Fan static	0.00	in wg

Outdoor Ventilation Air Data

Design airflow CFM	2700	CFM	CFM/person	71.05	CFM/person
CFM/ft²	1.63	CFM/ft²			

Hourly Analysis Program 5.10 — Page 1 of 12

RTU-2 (LEARNING COMMONS) LOAD CALC
NOT TO SCALE

Air System Sizing Summary for DHU-1/CU-1

Project Name: 2025-005P — 06/27/2025
Prepared by: Highland Associates — 12:06PM

Air System Information

Air System Name	DHU-1/CU-1	Number of zones	1
Equipment Class	SPLT AHU	Floor Area	3545.0 ft²
Air System Type	SZCAV	Location	Binghamton, New York

Sizing Calculation Information

Calculation Months	Jan to Dec	Zone CFM Sizing	Sum of space airflow rates
Sizing Data	User-Modified	Space CFM Sizing	Individual peak space loads

Central Cooling Coil Sizing Data

Total coil load	16.6	Tons	Load occurs at	Jul 1500	
Total coil load	198.9	MBH	OA DB / WB	95.0 / 76.0	°F
Sensible coil load	140.4	MBH	Entering DB / WB	81.0 / 67.7	°F
Coil CFM at Jul 1500	6000	CFM	Leaving DB / WB	58.0 / 56.9	°F
Max block CFM	6000	CFM	Coil ADP	55.5	°F
Sum of peak zone CFM	6000	CFM	Bypass Factor	0.100	
Sensible heat ratio	0.706		Resulting RH	55	%
CFM/Ton	362.0		Design supply temp.	55.0	°F
ft²/Ton	213.9		Zone T-stat Check	1 of 1	OK
BTU/(hr·ft²)	56.1		Max zone temperature deviation	0.0	°F
Water flow @ 10.0 °F rise	N/A				

Central Heating Coil Sizing Data

Max coil load	187.3	MBH	Load occurs at	Des Htg	
Coil CFM at Des Htg	6000	CFM	BTU/(hr·ft²)	52.8	
Max coil CFM	6000	CFM	Ent. DB / Lvg DB	43.2 / 73.9	°F
Water flow @ 20.0 °F drop	N/A				

Supply Fan Sizing Data

Actual max CFM	6000	CFM	Fan motor BHP	0.00	BHP
Standard CFM	5655	CFM	Fan motor kW	0.00	kW
Actual max CFM/ft²	1.69	CFM/ft²	Fan static	0.00	in wg

Outdoor Ventilation Air Data

Design airflow CFM	2000	CFM	CFM/person	0.00	CFM/person
CFM/ft²	0.56	CFM/ft²			

Hourly Analysis Program 5.10 — Page 1 of 10

DHU-1, CU-DHU-1 LOAD CALC
NOT TO SCALE

Air System Sizing Summary for ERU-1

Project Name: 2025-005P — 06/27/2025
Prepared by: Highland Associates — 12:09PM

Air System Information

Air System Name	ERU-1	Number of zones	1
Equipment Class	PKG ROOF	Floor Area	835.0 ft²
Air System Type	VAV	Location	Binghamton, New York

Sizing Calculation Information

Calculation Months	Jan to Dec	Zone CFM Sizing	Peak zone sensible load
Sizing Data	User-Modified	Space CFM Sizing	Individual peak space loads

Central Cooling Coil Sizing Data

Total coil load	10.3	Tons	Load occurs at	Jul 1500	
Total coil load	124.2	MBH	OA DB / WB	95.0 / 76.0	°F
Sensible coil load	67.3	MBH	Entering DB / WB	95.0 / 76.0	°F
Coil CFM at Jul 1500	1392	CFM	Leaving DB / WB	47.5 / 46.8	°F
Max block CFM	1392	CFM	Coil ADP	42.2	°F
Sum of peak zone CFM	1392	CFM	Bypass Factor	0.100	
Sensible heat ratio	0.542		Resulting RH	50	%
CFM/Ton	134.5		Design supply temp.	55.0	°F
ft²/Ton	80.7		Zone T-stat Check	1 of 1	OK
BTU/(hr·ft²)	148.7		Max zone temperature deviation	0.0	°F
Water flow @ 10.0 °F rise	N/A				

Central Heating Coil Sizing Data

Max coil load	13.2	MBH	Load occurs at	Jul 0500	
Coil CFM at Jul 0500	1392	CFM	BTU/(hr·ft²)	15.8	
Max coil CFM	1392	CFM	Ent. DB / Lvg DB	45.7 / 55.0	°F
Water flow @ 20.0 °F drop	N/A				

Preheat Coil Sizing Data

Max coil load	99.2	MBH	Load occurs at	Des Htg	
Coil CFM at Des Htg	1392	CFM	Ent. DB / Lvg DB	-10.0 / 60.0	°F
Max coil CFM	1392	CFM			
Water flow @ 20.0 °F drop	9.92	gpm			

Supply Fan Sizing Data

Actual max CFM	1392	CFM	Fan motor BHP	0.00	BHP
Standard CFM	1312	CFM	Fan motor kW	0.00	kW
Actual max CFM/ft²	1.67	CFM/ft²	Fan static	0.00	in wg

Outdoor Ventilation Air Data

Design airflow CFM	1392	CFM	CFM/person	66.27	CFM/person
CFM/ft²	1.67	CFM/ft²			

Hourly Analysis Program 5.10 — Page 1 of 13

ERU-1 (GIRLS LOCKER ROOM) LOAD CALC
NOT TO SCALE

Air System Sizing Summary for ERU-2

Project Name: 2025-005P — 06/27/2025
Prepared by: Highland Associates — 12:10PM

Air System Information

Air System Name	ERU-2	Number of zones	1
Equipment Class	PKG ROOF	Floor Area	737.0 ft²
Air System Type	VAV	Location	Binghamton, New York

Sizing Calculation Information

Calculation Months	Jan to Dec	Zone CFM Sizing	Peak zone sensible load
Sizing Data	User-Modified	Space CFM Sizing	Individual peak space loads

Central Cooling Coil Sizing Data

Total coil load	9.2	Tons	Load occurs at	Jul 1500	
Total coil load	110.7	MBH	OA DB / WB	95.0 / 76.0	°F
Sensible coil load	60.0	MBH	Entering DB / WB	95.0 / 76.0	°F
Coil CFM at Jul 1500	1228	CFM	Leaving DB / WB	47.0 / 46.4	°F
Max block CFM	1228	CFM	Coil ADP	41.7	°F
Sum of peak zone CFM	1228	CFM	Bypass Factor	0.100	
Sensible heat ratio	0.542		Resulting RH	50	%
CFM/Ton	133.2		Design supply temp.	55.0	°F
ft²/Ton	79.9		Zone T-stat Check	1 of 1	OK
BTU/(hr·ft²)	150.2		Max zone temperature deviation	0.0	°F
Water flow @ 10.0 °F rise	N/A				

Central Heating Coil Sizing Data

Max coil load	12.2	MBH	Load occurs at	Jul 0500	
Coil CFM at Jul 0500	1228	CFM	BTU/(hr·ft²)	16.5	
Max coil CFM	1228	CFM	Ent. DB / Lvg DB	45.3 / 55.0	°F
Water flow @ 20.0 °F drop	N/A				

Preheat Coil Sizing Data

Max coil load	87.5	MBH	Load occurs at	Des Htg	
Coil CFM at Des Htg	1228	CFM	Ent. DB / Lvg DB	-10.0 / 60.0	°F
Max coil CFM	1228	CFM			
Water flow @ 20.0 °F drop	8.76	gpm			

Supply Fan Sizing Data

Actual max CFM	1228	CFM	Fan motor BHP	0.00	BHP
Standard CFM	1158	CFM	Fan motor kW	0.00	kW
Actual max CFM/ft²	1.67	CFM/ft²	Fan static	0.00	in wg

Outdoor Ventilation Air Data

Design airflow CFM	1228	CFM	CFM/person	58.49	CFM/person
CFM/ft²	1.67	CFM/ft²			

Hourly Analysis Program 5.10 — Page 1 of 13

ERU-2 (BOYS LOCKER ROOM) LOAD CALC
NOT TO SCALE

Air System Sizing Summary for UV-138/SC-1/CU-1

Project Name: 2025-005P — 06/27/2025
Prepared by: Highland Associates — 12:35PM

Air System Information

Air System Name	UV-138/SC-1/CU-1	Number of zones	1
Equipment Class	PKG ROOF	Floor Area	896.0 ft²
Air System Type	SZCAV	Location	Binghamton, New York

Sizing Calculation Information

Calculation Months	Jan to Dec	Zone CFM Sizing	Sum of space airflow rates
Sizing Data	Calculated	Space CFM Sizing	Individual peak space loads

Central Cooling Coil Sizing Data

Total coil load	6.1	Tons	Load occurs at	Jul 1600	
Total coil load	73.1	MBH	OA DB / WB	94.5 / 75.9	°F
Sensible coil load	67.5	MBH	Entering DB / WB	73.4 / 63.4	°F
Coil CFM at Jul 1600	4578	CFM	Leaving DB / WB	58.9 / 57.9	°F
Max block CFM	4578	CFM	Coil ADP	57.3	°F
Sum of peak zone CFM	4578	CFM	Bypass Factor	0.100	
Sensible heat ratio	0.924		Resulting RH	59	%
CFM/Ton	751.6		Design supply temp.	58.0	°F
ft²/Ton	147.1		Zone T-stat Check	1 of 1	OK
BTU/(hr·ft²)	81.6		Max zone temperature deviation	0.0	°F
Water flow @ 10.0 °F rise	N/A				

Central Heating Coil Sizing Data

Max coil load	23.5	MBH	Load occurs at	Des Htg	
Coil CFM at Des Htg	4578	CFM	BTU/(hr·ft²)	26.2	
Max coil CFM	4578	CFM	Ent. DB / Lvg DB	67.7 / 72.7	°F
Water flow @ 20.0 °F drop	N/A				

Supply Fan Sizing Data

Actual max CFM	4578	CFM	Fan motor BHP	0.00	BHP
Standard CFM	4314	CFM	Fan motor kW	0.00	kW
Actual max CFM/ft²	5.11	CFM/ft²	Fan static	0.00	in wg

Outdoor Ventilation Air Data

Design airflow CFM	105	CFM	CFM/person	17.45	CFM/person
CFM/ft²	0.12	CFM/ft²			

Hourly Analysis Program 5.10 — Page 1 of 10

UV-138/SC-1/CU-1 LOAD CALC
NOT TO SCALE

Air System Sizing Summary for UV-128/SC-2/CU-2

Project Name: 2025-005P — 06/27/2025
Prepared by: Highland Associates — 12:33PM

Air System Information

Air System Name	UV-128/SC-2/CU-2	Number of zones	1
Equipment Class	PKG ROOF	Floor Area	250.0 ft²
Air System Type	SZCAV	Location	Binghamton, New York

Sizing Calculation Information

Calculation Months	Jan to Dec	Zone CFM Sizing	Sum of space airflow rates
Sizing Data	Calculated	Space CFM Sizing	Individual peak space loads

Central Cooling Coil Sizing Data

Total coil load	3.9	Tons	Load occurs at	Jul 1300	
Total coil load	47.2	MBH	OA DB / WB	93.1 / 75.5	°F
Sensible coil load	41.5	MBH	Entering DB / WB	74.4 / 64.4	°F
Coil CFM at Jul 1300	2742	CFM	Leaving DB / WB	59.6 / 58.6	°F
Max block CFM	2742	CFM	Coil ADP	57.9	°F
Sum of peak zone CFM	2742	CFM	Bypass Factor	0.100	
Sensible heat ratio	0.878		Resulting RH	60	%
CFM/Ton	696.6		Design supply temp.	58.0	°F
ft²/Ton	63.5		Zone T-stat Check	1 of 1	OK
BTU/(hr·ft²)	188.9		Max zone temperature deviation	0.0	°F
Water flow @ 10.0 °F rise	N/A				

Central Heating Coil Sizing Data

Max coil load	20.7	MBH	Load occurs at	Des Htg	
Coil CFM at Des Htg	2742	CFM	BTU/(hr·ft²)	82.7	
Max coil CFM	2742	CFM	Ent. DB / Lvg DB	63.3 / 70.7	°F
Water flow @ 20.0 °F drop	N/A				

Supply Fan Sizing Data

Actual max CFM	2742	CFM	Fan motor BHP	0.00	BHP
Standard CFM	2584	CFM	Fan motor kW	0.00	kW
Actual max CFM/ft²	10.97	CFM/ft²	Fan static	0.00	in wg

Outdoor Ventilation Air Data

Design airflow CFM	176	CFM	CFM/person	15.91	CFM/person
CFM/ft²	0.70	CFM/ft²			

Hourly Analysis Program 5.10 — Page 1 of 10

UV-128/SC-2/CU-2 (ESPORTS) LOAD CALC
NOT TO SCALE

Air System Sizing Summary for SC-3/CU-3

Project Name: 2025-005P — 06/27/2025
Prepared by: Highland Associates — 12:32PM

Air System Information

Air System Name	SC-3/CU-3	Number of zones	1
Equipment Class	PKG ROOF	Floor Area	70.0 ft²
Air System Type	SZCAV	Location	Binghamton, New York

Sizing Calculation Information

Calculation Months	Jan to Dec	Zone CFM Sizing	Sum of space airflow rates
Sizing Data	Calculated	Space CFM Sizing	Individual peak space loads

Central Cooling Coil Sizing Data

Total coil load	2.0	Tons	Load occurs at	Jul 1500	
Total coil load	24.4	MBH	OA DB / WB	95.0 / 76.0	°F
Sensible coil load	24.3	MBH	Entering DB / WB	65.7 / 59.4	°F
Coil CFM at Jul 1500	2633	CFM	Leaving DB / WB	56.6 / 56.0	°F
Max block CFM	2633	CFM	Coil ADP	55.6	°F
Sum of peak zone CFM	2633	CFM	Bypass Factor	0.100	
Sensible heat ratio	0.994		Resulting RH	70	%
CFM/Ton	1293.8		Design supply temp.	55.0	°F
ft²/Ton	34.4		Zone T-stat Check	0 of 1	OK
BTU/(hr·ft²)	348.9		Max zone temperature deviation	0.1	°F
Water flow @ 10.0 °F rise	N/A				

Central Heating Coil Sizing Data

Max coil load	0.4	MBH	Load occurs at	Des Htg	
Coil CFM at Des Htg	2633	CFM	BTU/(hr·ft²)	5.0	
Max coil CFM	2633	CFM	Ent. DB / Lvg DB	62.9 / 63.0	°F
Water flow @ 20.0 °F drop	N/A				

Supply Fan Sizing Data

Actual max CFM	2633	CFM	Fan motor BHP	0.00	BHP
Standard CFM	2482	CFM	Fan motor kW	0.00	kW
Actual max CFM/ft²	37.62	CFM/ft²	Fan static	0.00	in wg

Outdoor Ventilation Air Data

Design airflow CFM	5	CFM	CFM/person	0.00	CFM/person
CFM/ft²	0.08	CFM/ft²			

Hourly Analysis Program 5.10 — Page 1 of 10

SC-3/CU-3 LOAD CALC
NOT TO SCALE

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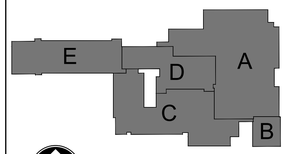

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

MECHANICAL SCHEDULES

DRAWN BY:	CHECKED BY:
F.G.	M.P.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

M-306

CAD FILE: 5005-M-305.DWG — PLOT DATE: 5/27/2025

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SelectAire™ Series Dehumidifiers

PRODUCT SCOPE

Quantity: 1
Model #: SA35EG7MCH
Tag #: PDU-1
Unit Weight: 7600 lbs

Capacities:
- Supply Air: 15100 CFM
- Outside Air: 6270 CFM
- Exhaust Air: 7550 CFM
- Dehumidification
- EAT: 82.0 °F DB / 69.6 °F WB
- Total Cooling Capacity: 429 MBH
- Total Sensible Capacity: 241.51 MBH
- Moisture Removal Capacity: 178.0 lb/hr
- Total Heat of Rejection: 542 MBH

DX Refrigeration System:
- Refrigerant Type: R-454B
- Scroll Compressor(s), Nominal Tons: 35
- Hot Gas Reheat Condenser Coil
- Coil Coating: Coated
- Receiver w/ Flooding Valve
- Hot Gas Bypass Included

Airflow Configuration:
- Supply Discharge Location: Horizontal
- Return Intake Location: Bottom
- Exhaust Disch Location: Horizontal
- Supply ESP: 4.00 in WC
- Supply TSP: 5.46 in WC
- Supply Blower VFD: Included
- Exhaust ESP: 0.60 in WC
- Exhaust TSP: 2.77 in WC
- EC Exhaust Blower Included

Air Filters:
- Supply Filters: Standard

Enclosure:
- Location: Outdoor
- Service Access: Left Side
- Separate Electrical Compartment
- Galvanneal with Powder Coat Finish

Condensate Drain Pan:
- A minimum of 20-Gauge Stainless Steel, Sloped
- 1.5 in. PVC Drain Connection (External P-trap required)

Unit Electrical:
- Main Power (V/Ph/Hz): 208/3/60
- MCA (Amps): 225
- MOPD (Amps): 250
- SCCR (kA): 65
  When protected by Class J, T, or RK1 fuses
- Disconnect: Included, Fused

Controls:
- Model CM3510
- Temp & RH Sensors: Installed in unit by Desert Aire
- Occupancy Timer w/ BMS Override
- Remote Display Terminal: Included
- BMS Compatibility: BACnet MSTP

Water Condenser:
- Circuit A Condenser 1: Pool

Air Cooled Condenser:
- Model #: RC8D029C3S21926
- # of Fans: 4
- Unit Weight: 1537 lbs
- Voltage/Phase/Hz - 208/230-3-60
- MCA (Amps): 28.9
- MOPD (Amps): 35
- SCCR (Amps): 5kA
- Rated Ambient Condition - 100 °F
- Coil - Cu Tubing w/ Al Fins

Auxiliary Heat:
- Hot Water Coil
- Capacity: 400 MBH
- Control Signal: Modulating

Warranties (Parts Only):
- Standard Warranty: 2 years
- Compressor Warranty: 5 Years
- Air Side Coil Warranty: 10 Years

Submittal 38756 u75253 [20250626] [11.25].pdf

PDU-1, CU-PDU-1 DETAIL PG 3
NOT TO SCALE

SelectAire™ Series Dehumidifiers

ENGINEERED SPECIALTIES

Exhaust / Outside Air Chart

Mode	Outside air CFM	Exhaust air CFM
Unoccupied	0	0
Occupied	3000	3500
Purge	6865	7550
Max outside air	6865	7550

* Occupied mode matches existing unit Outside air / exhaust CFM

Submittal 38756 u75253 [20250626] [11.25].pdf

PDU-1, CU-PDU-1 DETAIL PG 4
NOT TO SCALE

MCA/MOPD Calculation

J 0

Project Afton K-12 CSD Pool DHU
Tag PDU-1

Series SA35
Aux Heat Hot Water Coil
Refrigerant R-454B

S/A Airflow	15100	cfm @	4.00	in ESP at Maximum Fl
S/A Blower Motor (ea)	25	HP		
S/A Blower Motor (qty)	1			
E/A Airflow	7550	cfm @	0.60	in ESP at Maximum Fl
E/A Blower Motor (ea)	7.5	HP		
E/A Blower Motor (qty)	1			
Pkgd Cond Motor (ea)	0	HP		
Pkg Cond Motor (qty)	0			
Ext. Source Capture Mtr	0	HP		

Voltage 208/3/60

	FLA
Compressor 1	49.0
Compressor 2	0.0
Compressor 3	33.3
Compressor 4	33.3
S/A Blwr Motor (ea)	66.0
E/A Blwr Motor (ea)	24.9
Pkgd Cond Motor (ea)	0
Ext. Source Capture Mtr	0
Electric Heater (single point)	N/A
Total Transformer (VA)	400

Unit MCA	225	Amps
Unit MOPD	250	Amps

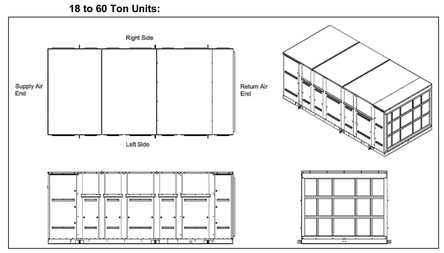
Submittal 38756 u75253 [20250626] [11.25].pdf

PDU-1, CU-PDU-1 DETAIL PG 5
NOT TO SCALE

SelectAire™ Series Dehumidifiers

UNIT CONNECTIONS & CLEARANCES

18 to 60 Ton Units:



Utility	Location
Electrical, Filter and Service Access	Left Side
Remote Condenser Refrigerant Lines	Left Side
Water Piping Connection(s)	Left Side
Aux Heat Connection	Left Side
Condensate Drain	Left Side
Supply Air Discharge	Horizontal
Return Air Intake	Bottom
Outdoor Intake	Horizontal
Exhaust Discharge	Horizontal

Notes:
1. Electrical door clearance typically requires 36" clearance on Utility side shown. Refer to local codes. See General Arrangement drawing for specific location of electrical enclosure.
2. 48" clearance at filter rack locations recommended for ease of maintenance.
3. A clearance at one side equivalent to the unit width should be considered for major service such as heat exchanger replacement.

Will need to verify the required connection location, unit orientation

Submittal 38756 u75253 [20250626] [11.25].pdf

PDU-1, CU-PDU-1 DETAIL PG 9
NOT TO SCALE

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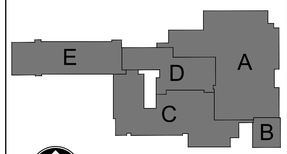

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

MECHANICAL DETAILS

DRAWN BY:	CHECKED BY:
C.P.	M.P.
DATE:	**PROJECT NO:**
11/10/2025	2025-005

DRAWING NO:

M-307

CAD FILE: 5005-M-307.DWG PLOT DATE: 6/26/2025

CM3510 Series Controller for SA Dehumidifiers

ADVANCED COMMUNICATIONS CAPABILITIES EASY INSTALLATION AND OPERATION CONTINUOUS MONITORING

Advanced SA Microprocessor Controller

CM3510 Controller Used on ND/SA Dehumidifier

Wall Mount Temperature & Humidity Sensor

FEATURES

- Backlit LCD User Interface
- Custom programming for complex dehumidification, temperature and humidity control.
- Multiple communication options
- Alarm history retention

Duct Mount Temperature & Humidity Sensor

Optional CM3510 Series Remote Display Terminal (RDT)

DESCRIPTION

The CM3510 controllers are uniquely programmed for each Desert Aire application providing energy efficient moisture removal and precise temperature & humidity control.

The CM3510 controllers offer greater compatibility with building management systems (BMS) through the use of an options plug in communication module. Optional communication modules for the CM3510 include: LonWorks®, BACnet™ Ethernet™, BACnet™ MS/TP or Modbus®. The CM3510 has a built in time clock for occupied scheduling should a BMS not be present on your project.

A user interface to the CM3510 is supplied on each unit. This backlit LCD display provides easy to navigate screens for setpoint adjustment and unit monitoring. All Inputs and Outputs along with alarm history can be viewed from the user interface to aid in unit or system diagnostics. The interface is either supplied as a built-in display on the face of the controller or as a separate remote display terminal that is connected to the controller.

ORDER OPTIONS

Controller and Sensor without RDT
- ☐ CA3510ND-DUCT Duct Mount Temp & RH Sensor
- ☐ CA3510WD- WALL Mount Temp & RH Sensor

Controller and Sensor with RDT
- ☐ CA3510WD-DUCT Duct Mount Temp & RH Sensor
- ☐ CA3510WD-WALL Wall Mount Temp & RH Sensor
  RDT = remote display terminal with 20ft. cord

Communication Configuration
- ☐ Standard - No BMS Communication
- ☐ LONWORKS® Module
- ☐ BACnet™ Ethernet™ Module
- ☐ BACnet™ MS/TP Module
- ☐ Modbus® RTU Module (RS-485)

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Submittal 38756 u75253 [20250626] [11.25].pdf

PDU-1, CU-PDU-1 DETAIL PG 30
NOT TO SCALE

NOTES:

APPROVED ALTERNATIVE MANUFACTURERS
- DECTRON
- POOL PAK
- SERIESCO OR APPROVED EQUAL

RC8 SERIES

Desert Aire's RC8 range of condensers is sized up to 34.8 MBH/°F of heat rejection. Swept fan blades are designed as part of the direct drive motor. The RC8 series has fully enclosed motor lead raceways to protect wiring. Control panels are rated for 10kA SCCR when power is supplied with class J fuses.

STANDARD FEATURES
- Galvanized G90 cabinet
- All venturi fan panels for energy efficiency and low sound
- Door interrupt disconnect

OPTIONAL FEATURES
- Painted cabinet
- E-coat on coil
- Vertical orientation with horizontal airflow

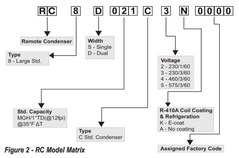


Figure 2 - RC Model Matrix

ELECTRICAL DATA

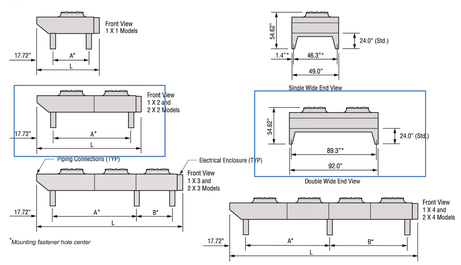
	Model	208-230/3/60			460/3/60			575/3/60			Unit kW
		FLA	MCA	MOPD[1]	FLA	MCA	MOPD[1]	FLA	MCA	MOPD[1]	
Single Circuit	RC8S007C	6.8	8.5	15.0	3.6	4.5	15.0	3.4	4.3	15.0	1.4
	RC8S009C	6.8	8.5	15.0	3.6	4.5	15.0	3.4	4.3	15.0	1.4
	RC8S011C	13.6	15.3	20.0	7.2	8.1	15.0	6.8	7.7	15.0	2.7
	RC8S015	13.6	15.3	20.0	7.2	8.1	15.0	6.8	7.7	15.0	2.8
	RC8S018C	13.6	15.3	20.0	7.2	8.1	15.0	6.8	7.7	15.0	2.9
	RC8S022C	20.4	22.1	25.0	10.8	11.7	15.0	10.2	11.1	15.0	4.2
	RC8S026C	20.4	22.1	25.0	10.8	11.7	15.0	10.2	11.1	15.0	4.4
	RC8S030C	27.2	28.9	35.0	14.4	15.3	20.0	13.6	14.5	15.0	5.6
	RC8S035C	27.2	28.9	35.0	14.4	15.3	20.0	13.6	14.5	15.0	5.8
Dual Circuit	RC8D022C	27.2	28.9	35	14.4	15.3	20.0	13.6	14.5	15.0	5.5
	RC8D029C	27.2	28.9	35	14.4	15.3	20.0	13.6	14.5	15.0	5.7
	RC8D035C	27.2	28.9	35	14.4	15.3	20.0	13.6	14.5	15.0	5.9
	RC8D044C	40.8	42.5	45.0	21.6	22.5	25.0	20.4	21.3	25.0	8.4
	RC8D052C	40.8	42.5	45.0	21.6	22.5	25.0	20.4	21.3	25.0	8.7
	RC8D060C	54.4	56.1	60.0	28.8	29.7	30.0	27.2	28.1	30.0	11.2
	RC8D070C	54.4	56.1	60.0	28.8	29.7	30.0	27.2	28.1	30.0	11.6
	RC8D081C	68.0	69.7	75.0	36.0	36.9	40.0	34.0	34.9	35.0	14.7
	RC8D091C	68.0	69.7	75.0	36.0	36.9	40.0	34.0	34.9	35.0	15.3
	RC8D107C	81.6	83.3	90.0	43.2	44.1	45.0	40.8	41.7	45.0	18.4

[1] MOPD - Maximum Overcurrent Protection Device

Submittal 38756 u75253 [20250626] [11.25].pdf

PDU-1, CU-PDU-1 DETAIL PG 36
NOT TO SCALE

PERFORMANCE AND DIMENSIONAL DATA RC8 SERIES



Model	Std. Capacity	Single Circ. RC. Conn (in)[1]		Dual Circ. RC. Conn (in)[1]		Fan Layout	Overall Length (L) in	Mounting Dimensions (in)		Approx. Net Wt. (lbs)	dBA[2]
	MBH/1°F	Disch. Line	Liq. Line	Disch. Line	Liq. Line			A	B		
RC8S007C	8.1	1-1/8	7/8	1-1/8	5/8	1 x 1	80.9	48.1	-	529	62.5
RC8S009C	9.3	1-1/8	7/8	1-1/8	3/4	1 x 1	80.9	48.1	-	551	62.5
RC8S011C	12.0	1-3/8	1-1/8	1-3/8	3/4	1 x 2	139.1	106.2	-	710	65.5
RC8S015	15.6	1-3/8	1-1/8	1-3/8	7/8	1 x 2	139.1	106.2	-	829	65.5
RC8S018C	18.0	1-5/8	1-1/8	1-3/8	7/8	1 x 2	139.1	106.2	-	869	65.5
RC8S022C	24.7	1-5/8	1-3/8	1-5/8	1-1/8	1 x 3	197.1	111.1	53.1	1186	67.3
RC8S026C	28.2	1-5/8	1-3/8	1-5/8	1-1/8	1 x 3	197.1	111.1	53.1	1246	67.3
RC8S030C	33.5	1-5/8	1-3/8	1-5/8	1-1/8	1 x 4	255.1	111.1	111.1	1497	68.5
RC8S035C	37.7	1-5/8	1-3/8	1-5/8	1-1/8	1 x 4	255.1	111.1	111.1	1574	68.5
RC8D022C	23.2	1-5/8	1-3/8	1-5/8	1-1/8	2 x 2	139.1	106.2	-	1301	68.5
RC8D029C	30.2	1-5/8	1-3/8	1-5/8	1-1/8	2 x 2	139.1	106.2	-	1537	68.5
RC8D035C	34.8	1-5/8	1-3/8	1-5/8	1-1/8	2 x 2	139.1	106.2	-	1614	68.5
RC8D044C	47.81	1-5/8	1-5/8	1-5/8	1-3/8	2 x 3	197.1	111.1	53.1	2086	70.3
RC8D052C	54.12	1-5/8	1-5/8	1-5/8	1-3/8	2 x 3	197.1	111.1	53.1	2196	70.3
RC8D060C	65.44	-	-	1-5/8	1-3/8	2 x 4	255.1	111.1	111.1	2845	71.5
RC8D070C	73.51	-	-	1-5/8	1-3/8	2 x 4	255.1	111.1	111.1	2999	71.5
RC8D081C	84.53	-	-	1-5/8	1-5/8	2 x 5	313.2	169.2	111.1	3603	72.5
RC8D091C	91.98	-	-	1-5/8	1-5/8	2 x 5	313.2	169.2	111.1	3801	72.5
RC8D107C	110.62	-	-	1-5/8	1-5/8	2 x 6	371.2	116.1	111.1	5040	73.3

[1] Line sizes are based on 50ft. line set / max. 10ft. elevation difference at 35°F ΔT. Line connections may vary with different application ratings. Consult IO Manual.
[2] Listed DBA values are sound ratings for the maximum number of fans in operation per RC at 3m in accordance with AHRI standard 370-2001.

Submittal 38756 u75253 [20250626] [11.25].pdf

PDU-1, CU-PDU-1 DETAIL PG 37
NOT TO SCALE

POOL WATER HEAT RECOVERY	
CIRCUIT A - CONDENSER 1	**Pool (Full)**
CAPACITY @ 82 F DB/60% RH (MBH)	240
WATER INLET/OUTLET SIZE CPVC SCH 80 (INCHES)	1.5
WATER FLOW (GPM)	30
PRESSURE DROP (FT W.C.)	12.7

REMOTE CONDENSER DATA	
MODEL NUMBER	RC8D029C3S21926
AMBIENT TEMPERATURE (°F)	100.0
NO. OF FANS	4
WEIGHT	1537
VOLTAGE	208-230/3/60
MCA	28.9
MOPD	35
SHORT CIRCUIT CURRENT RATING (SCCR)	5kA

Submittal 38756 u75253 [20250626] [11.25].pdf

PDU-1, CU-PDU-1 DETAIL PG 52
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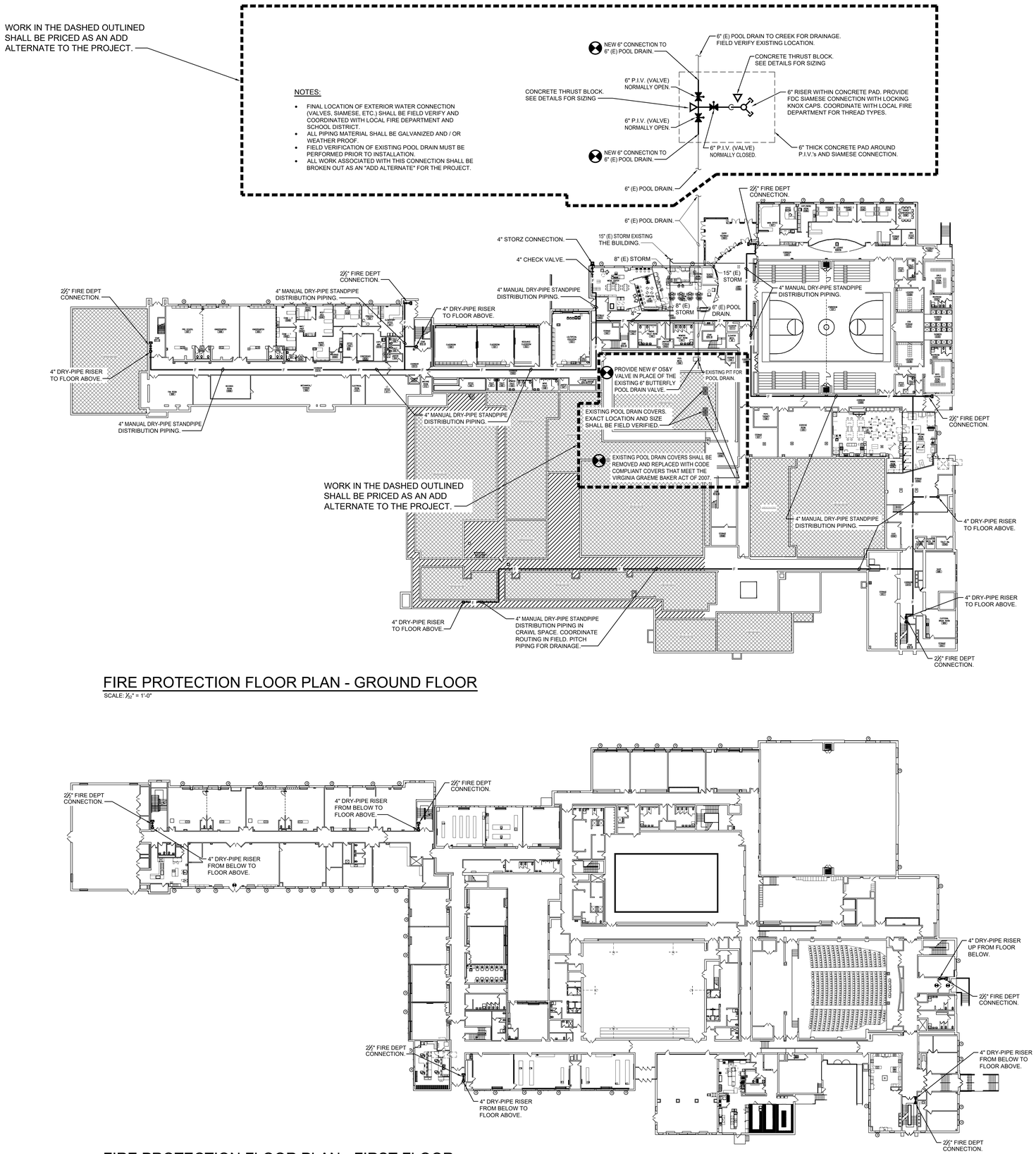

FIRE PROTECTION FLOOR PLAN - GROUND FLOOR

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

FIRE PROTECTION FLOOR PLAN - FIRST FLOOR

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

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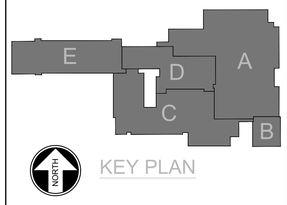

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:
FIRE PROTECTION GROUND & 1st FLOOR DRY STANDPIPE

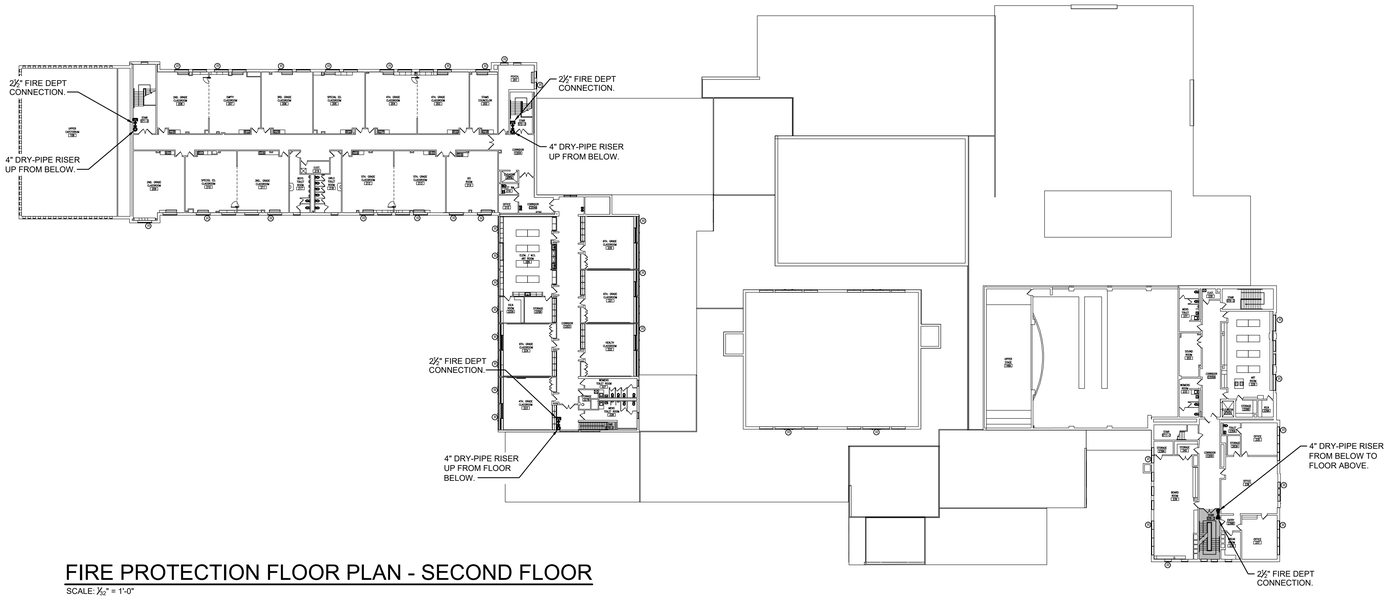
DRAWN BY:	CHECKED BY:
D.A.C.	A.J.L.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

FP-100

CAD FILE: 5005-FP-100.DWG PLOT DATE: 11/11/2025

J:\2025-005 Afton CSD 2024 Capital Project__CAD\eng\5005-FP-100.dwg, 11/11/2025 9:09:13 AM, _DWG To PDF.pc3



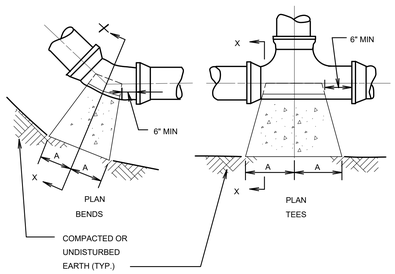
FIRE PROTECTION FLOOR PLAN - SECOND FLOOR

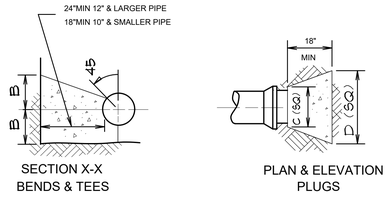
SCALE: 1/32" = 1'-0"

SIZE	1/4 BENDS		1/8 BENDS		1/16 BENDS		TEES		PLUGS	
	A	B	A	B	A	B	A	B	C	D
6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"
8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"
10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"
12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"
14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"
16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"

NOTE:

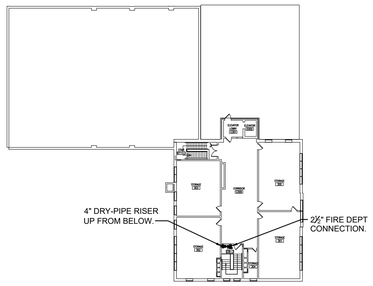
PROVIDE CONCRETE THRUST BLOCKS AT ALL CHANGE OF DIRECTIONS AND VALVES BELOW GROUND FOR ALL DOMESTIC AND FIRE WATER LINES.





TYPICAL THRUST BLOCK DETAILS

NOT TO SCALE



FIRE PROTECTION FLOOR PLAN - THIRD FLOOR

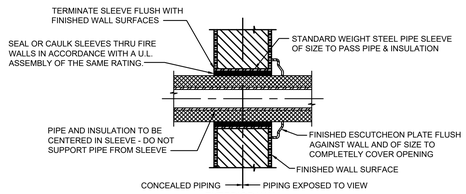
SCALE: 1/32" = 1'-0"

COORDINATION NOTE:

1. COORDINATION - IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION CONTRACTORS UNDER DIRECTION OF THE CONSTRUCTION MANAGER TO COORDINATE THEIR WORK. THE HVAC CONTRACTOR SHALL TAKE THE LEAD IN THE COORDINATION EFFORT AND PRODUCE THE COORDINATION DRAWINGS. COORDINATION DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BY THE ARCHITECT PRIOR TO STARTING ANY WORK. THE PURPOSE OF THESE DRAWINGS IS TO COORDINATE THE LOCATIONS OF ALL PIPING, DUCTWORK, AND ELECTRICAL EQUIPMENT. SPECIAL ATTENTION IS CALLED TO ARTICLE 110-26 (f) OF THE NATIONAL ELECTRIC CODE. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF PANEL BOARDS, AND SWITCHBOARDS SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION, FROM THE TOP OF THE ELECTRICAL EQUIPMENT TO THE "STRUCTURAL" CEILING, UNLESS PROTECTION IS PROVIDED TO AVOID DAMAGE FROM CONDENSATION, LEAKS OR BREAKS. THIS COORDINATION IS REQUIRED FOR ALL PHASES OF THIS PROJECT.

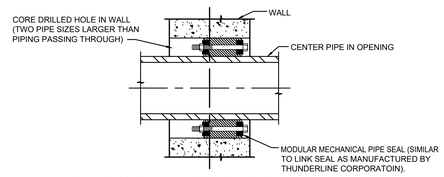
GENERAL NOTES

1. THE CONTRACTOR WILL BE HELD RESPONSIBLE TO HAVE VISITED AND EXAMINED THE PREMISES BEFORE SUBMITTING HIS PROPOSAL, IN ORDER TO UNDERSTAND THE EXISTING CONDITIONS AND SCOPE RELATED TO HIS WORK.
2. ALL MATERIALS AND APPARATUS SHALL BE INSTALLED IN ACCORDANCE WITH ALL THE RULES AND REGULATIONS OF THE PLUMBING CODE STATE OF NEW YORK AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
3. PROCUREMENT OF ALL PERMITS AND CERTIFICATES FOR THE INSTALLATION OF THESE SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH ALL THE RULES AND REGULATIONS OF THE NATIONAL FIRE CODE AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
4. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES AND ALL EXISTING CONDITIONS AND PROVIDE OFFSETS IN PIPING SYSTEM TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL INTERFERENCES, WHETHER INDICATED OR NOT AT NO ADDITIONAL COST.
5. CONNECTION TO EXISTING SERVICES SHALL BE PERFORMED DURING OFF-WORK HOURS OR ON WEEK-ENDS IN PREMIUM TIME. CONNECTION OF NEW WORK TO EXISTING WORK SHALL BE PERFORMED IN A NEAT AND APPROVED MANNER, RESTORING EXISTING WORK DISTURBED TO ORIGINAL CONDITION.
6. EXACT PIPING LOCATIONS TO BE VERIFIED IN FIELD.
7. EXISTING PIPING DAMAGED AS A RESULT OF PERFORMING THE WORK OF THIS CONTRACT SHALL BE REPAIRED OR REPLACED AS REQUIRED WITH MATERIAL AND FINISH TO MATCH EXISTING.
8. VERIFY ALL CEILING HEIGHTS PRIOR TO INSTALLATION OF PIPING RUNS.
9. ALL PIPING SHALL BE INSTALLED TO HAVE COMPLETE DRAINAGE WHEN SYSTEM IS NOT IN USE. PROVIDE DRAIN LOCATIONS AS REQUIRED BASED ON PIPE ROUTING.
10. THIS CONTRACTOR WILL BE RESPONSIBLE FOR FIELD ROUTING AND COORDINATION AS NECESSARY TO FIT PIPING. THIS INCLUDES COORDINATION WITH ALL OTHER TRADES AND ALL NECESSARY PIPING, OFFSETS, HANGERS/SUPPORTS, DRILLING, CUTTING PATCHING, ETC.
11. THESE DRAWINGS ARE A DIAGRAMATIC SCHEMATIC INDICATING THE INTENT OF THE INSTALLATION. ACTUAL FIELD ROUTING MAY DIFFER FROM WHAT IS INDICATED. THIS CONTRACTOR SHALL INCLUDE IN BIDDING ALL NECESSARY COMPONENTS, DESIGN, INSTALLATION AND COORDINATION FOR A COMPLETE AND FULLY OPERATIONAL FACILITY.
12. ALL FIRE PROTECTION WORK SHALL MEET THE REQUIREMENTS OF THE LOCAL FIRE MARSHAL AND THE OWNERS INSURANCE UNDERWRITER.
13. THE CONTRACTOR SHALL TEST THE ENTIRE SYSTEM(S) IN ACCORDANCE WITH NFPA REGULATIONS, AWWA REGULATIONS AND STATE AND LOCAL CODE REGULATIONS. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR A FINAL INSPECTION AND APPROVAL BY THE UNDERWRITER AND FIRE MARSHAL. APPOINTMENTS MUST BE MADE IN ADVANCE FOR THESE INSPECTIONS. TEST REPORTS SHALL BE FURNISHED TO THE OWNER.
14. COORDINATE ALL FIRE PROTECTION WORK WITH ARCHITECTURAL REFLECTED CEILING PLANS, HVAC DUCTWORK, DIFFUSER LOCATIONS AND ELECTRICAL LIGHTING LOCATIONS.
15. ALL FIRE DEPARTMENT VALVES, FIRE DEPARTMENT CONNECTIONS, ETC. SHALL BE PROVIDED WITH FIRE DEPARTMENT APPROVED THREADS.



PIPE SLEEVES THRU WALL

NOT TO SCALE



EXTERIOR WALL CORE DRILLED HOLE

NOT TO SCALE

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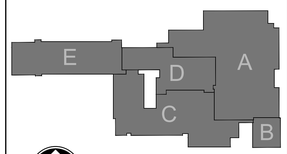

KEY PLAN

BID DOCUMENTS

SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

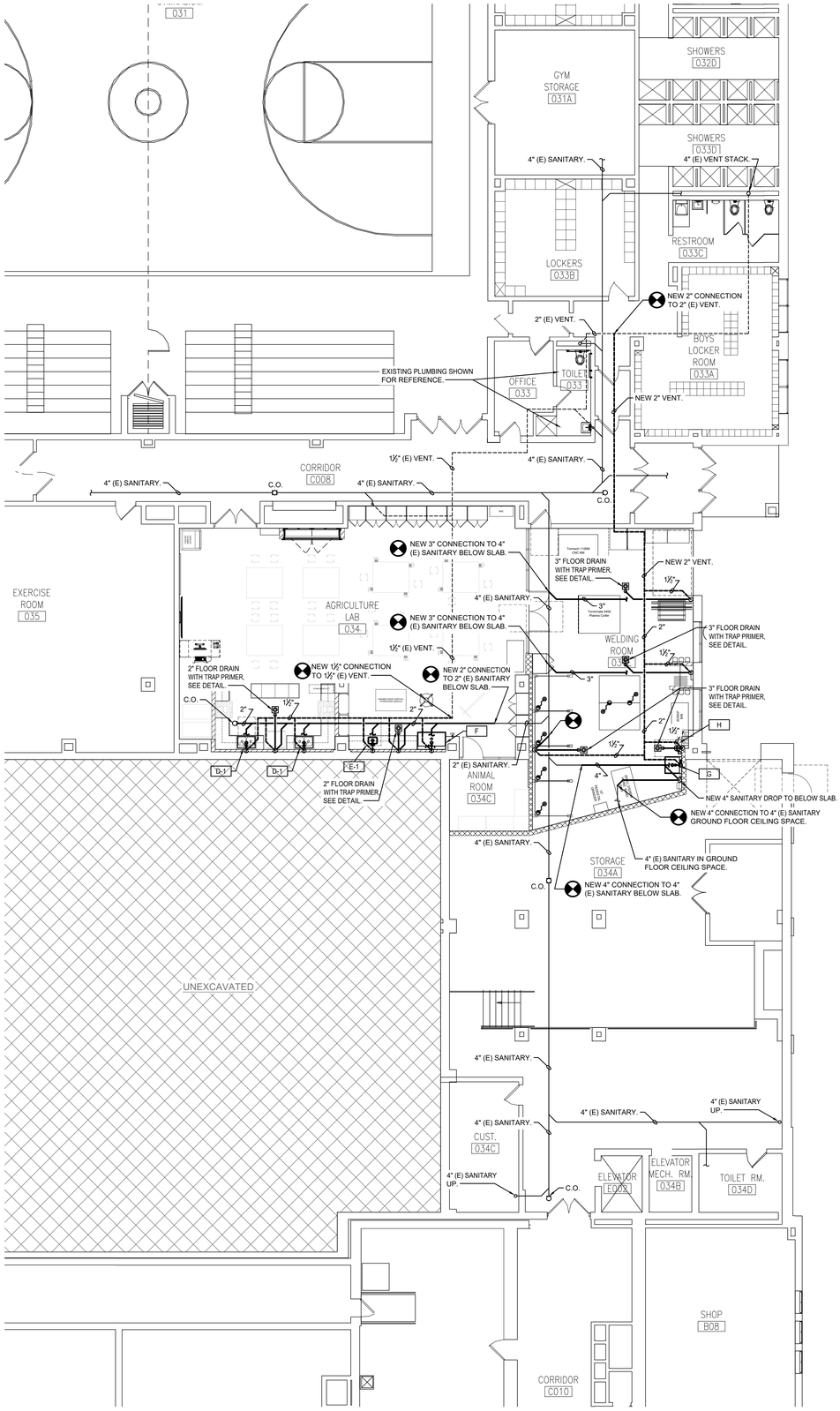
FIRE PROTECTION
2nd & 3rd FLOOR
DRY STANDPIPE

DRAWN BY:	CHECKED BY:
D.A.C.	A.J.L.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

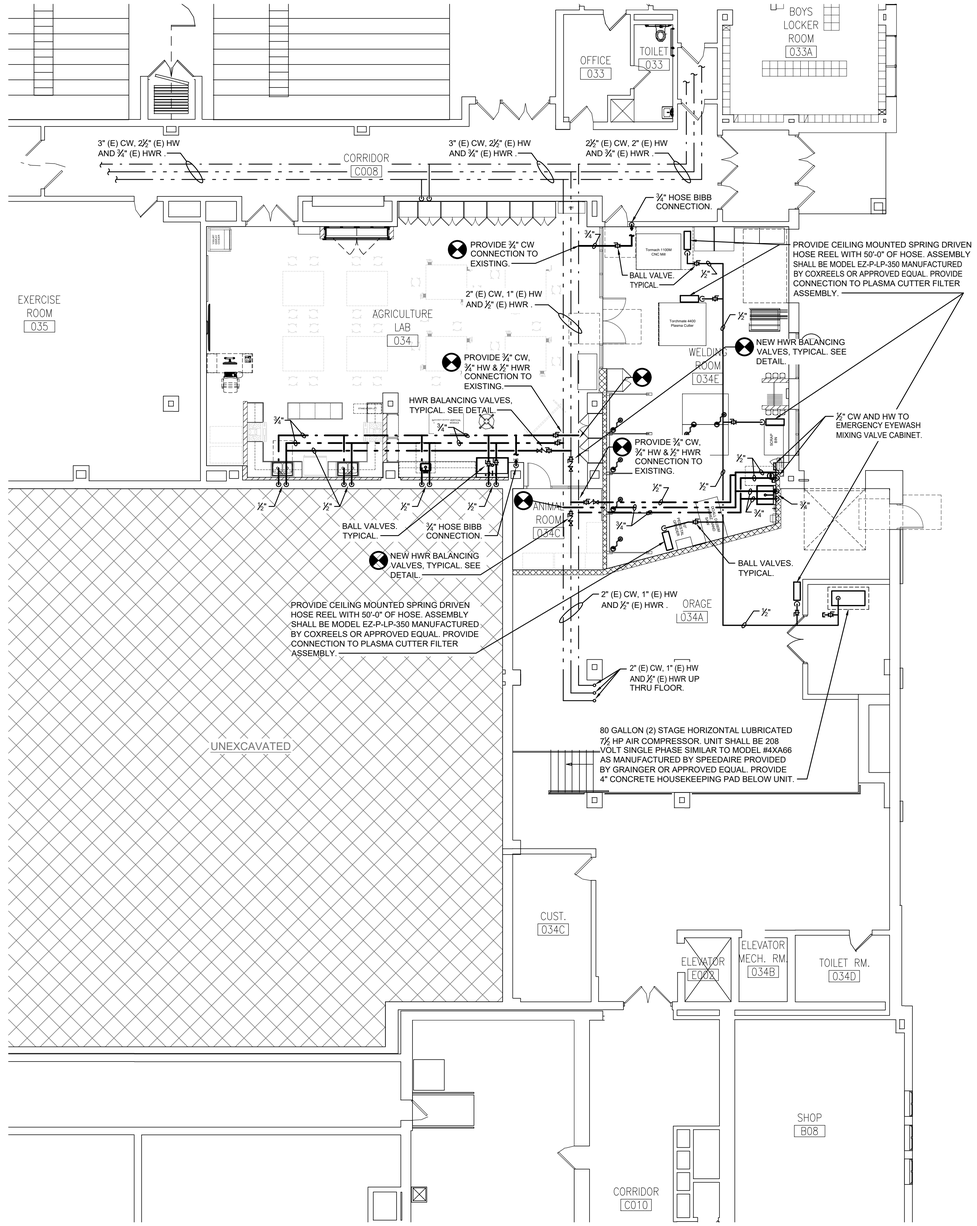
FP-101

CAD FILE: 5005-FP-101.DWG PLOT DATE: 11/11/2025



PARTIAL FLOOR PLAN - SANITARY

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



PARTIAL FLOOR PLAN - DOMESTIC WATER

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

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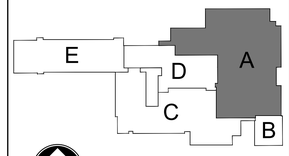

KEY PLAN

BID DOCUMENTS

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

PLUMBING
AGRICULTURE
ROOM

DRAWN BY:	CHECKED BY:
D.A.C.	A.J.L.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

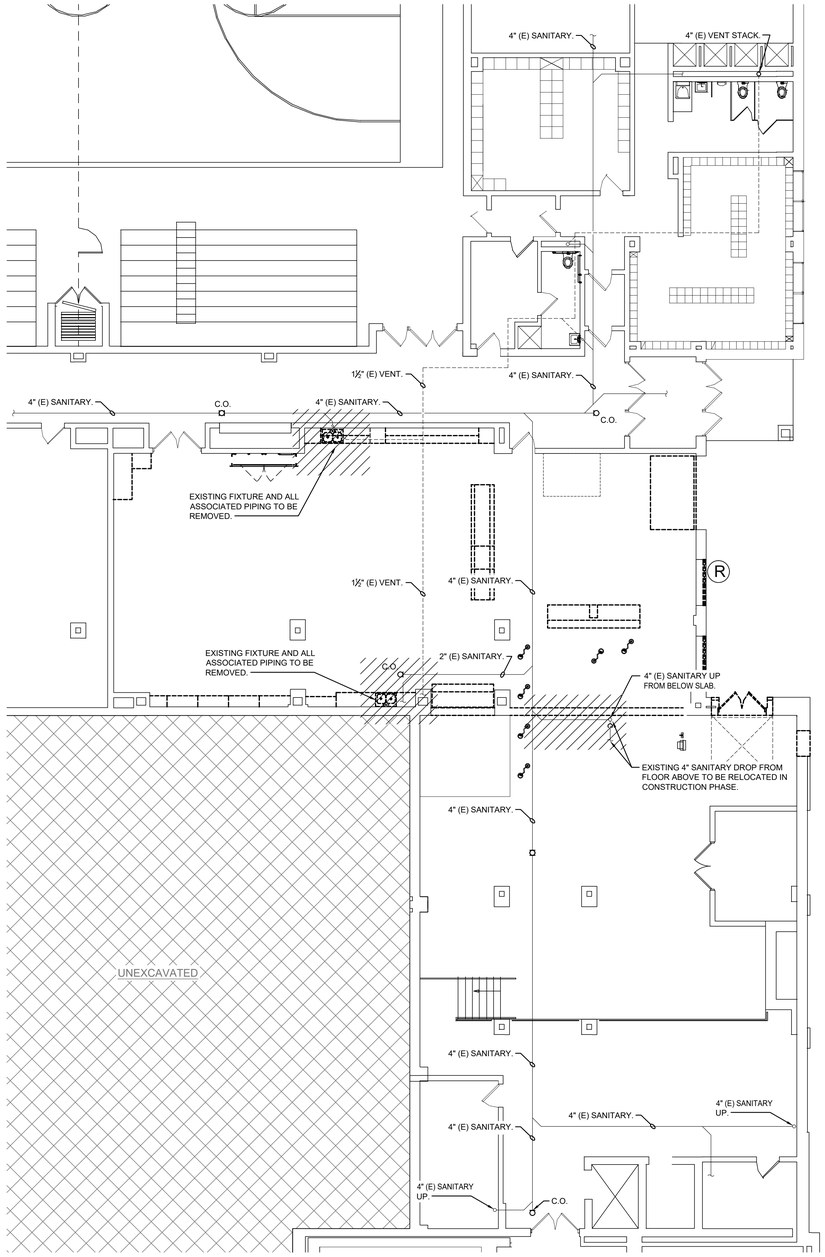
P-100

CAD FILE: 5005-P-100.DWG PLOT DATE: 11/11/2025

J:\2025-005 Afton CSD 2024 Capital Project__CAD\eng\5005-P-100.dwg, 11/11/2025 9:06:45 AM, _DWG To PDF.pc3

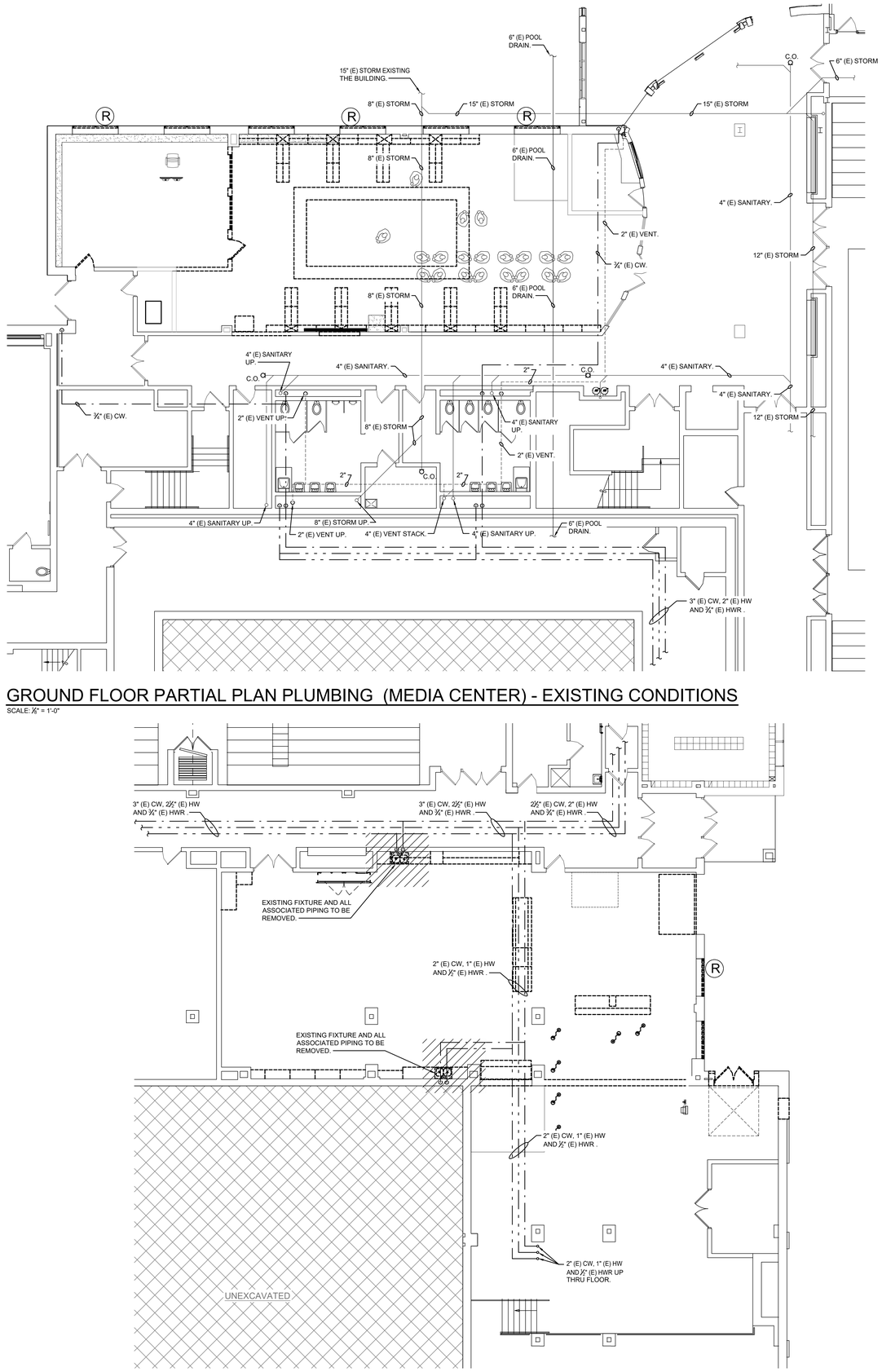
GENERAL DEMOLITION NOTES

1. ▨ INDICATES EXISTING PLUMBING FIXTURES, ROOF, OVERFLOW, FLOOR DRAINS AND / OR EQUIPMENT, PIPING ETC. TO BE REMOVED UNLESS OTHERWISE NOTED, INCLUDE ALL PIPING, VALVES AND ROUGHING (CARRIERS IF REQUIRED),CUT AND CAP LINES AT MAIN. IN WALLS, BELOW FLOORS AND/OR ABOVE CEILING AS REQUIRED AND OUT OF WAY OF NEW CONSTRUCTION.
2. BEFORE STARTING DEMOLITION OPERATIONS, PROVIDE THE NECESSARY PROTECTIVE DEVICES WHERE REQUIRED, AND IN STRICT ACCORDANCE WITH OSHA RULES AND REGULATIONS.
3. REPAIR AND/OR REPLACE EXISTING ITEMS WHICH BECOME DAMAGED DURING THE PROGRESS OF THE WORK. MAKE REPAIRS, REPLACEMENTS AND MODIFICATIONS TO RESTORE THE DAMAGED ITEMS TO THEIR ORIGINAL CONDITION AT THE TIME OF DAMAGE, TO THE SATISFACTION OF AND AT NO ADDITIONAL COST TO THE OWNER.
4. PATCH AND REPAIR ALL SURFACES DISTURBED, CUT OR DAMAGED BY ALTERATIONS OR DEMOLITION WORK AND AS NECESSARY TO PREPARE SURFACES FOR NEW MATERIALS AND ARRANGEMENTS.
5. INFORMATION PERTAINING TO EXISTING STRUCTURES, FACILITIES, AND UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS PROVIDED BY FACILITIES DEPARTMENT OR WHEN POSSIBLE BY SURVEY. THEREFORE THE LOCATIONS SHOWN ARE CONSIDERED APPROXIMATE. FIELD VERIFICATION MUST BE DONE AND OTHER SUCH WORK MAY EXIST, DUE TO LOCATION, SIZE, ETC., NOT PRESENTLY KNOWN.
6. PRIOR TO THE DEMOLITION OF THOSE ITEMS WHICH HAVE UTILITY CONNECTIONS (ELECTRICITY, ETC) THE CONTRACTOR SHALL ARRANGE WITH THE OWNER TO LOCATE PANEL BOXES AND OTHER CONTROL ELEMENTS SO THAT DAMAGE AND OTHER POTENTIALLY INCONVENIENT OR DANGEROUS SITUATIONS ARE AVOIDED.
7. ALL ACTIVE PIPING, THAT CONTINUES TO OTHER AREAS NOT IN SCOPE OF WORK ARE TO REMAIN ACTIVE & IN PLACE, IF REQUIRED RELOCATE EXISTING VALVE, RUN NEW SUPPLY LINES IN NEW WALLS, ABOVE CEILINGS, BELOW FLOOR OR IN COLUMN CHASES.
8. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL WORK WITH THE OWNER DURING THE DEMOLITION AND PHASING PROCESS OF CONSTRUCTION. IF DEMOLITION OF PARTICULAR ITEMS WILL AFFECT THE OPERATION OF OTHERS PARTS OF THE FACILITY OUTSIDE THE CONSTRUCTION PHASE, TEMPORARY PROVISIONS SHALL BE MADE TO KEEP THOSE AREAS UP AND RUNNING.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE IN HIS PRICING ADDITIONAL DEMO THAT IS NOT SHOWN ON THESE DRAWINGS DUE TO UNFORESEEN CIRCUMSTANCES.



GROUND FLOOR PARTIAL PLAN PLUMBING DEMOLITION (AG ROOM) - SANITARY

SCALE: ⅛" = 1'-0"



GROUND FLOOR PARTIAL PLAN PLUMBING (MEDIA CENTER) - EXISTING CONDITIONS

SCALE: ⅛" = 1'-0"

GROUND FLOOR PARTIAL PLAN PLUMBING DEMOLITION (AG ROOM) - DOMESTIC WATER

SCALE: ⅛" = 1'-0"

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:
PLUMBING DEMOLITION PLANS

DRAWN BY:	CHECKED BY:
D.A.C.	A.J.L.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

PD-100

CAD FILE: 5005-PD-100.DWG PLOT DATE: 11/11/2025

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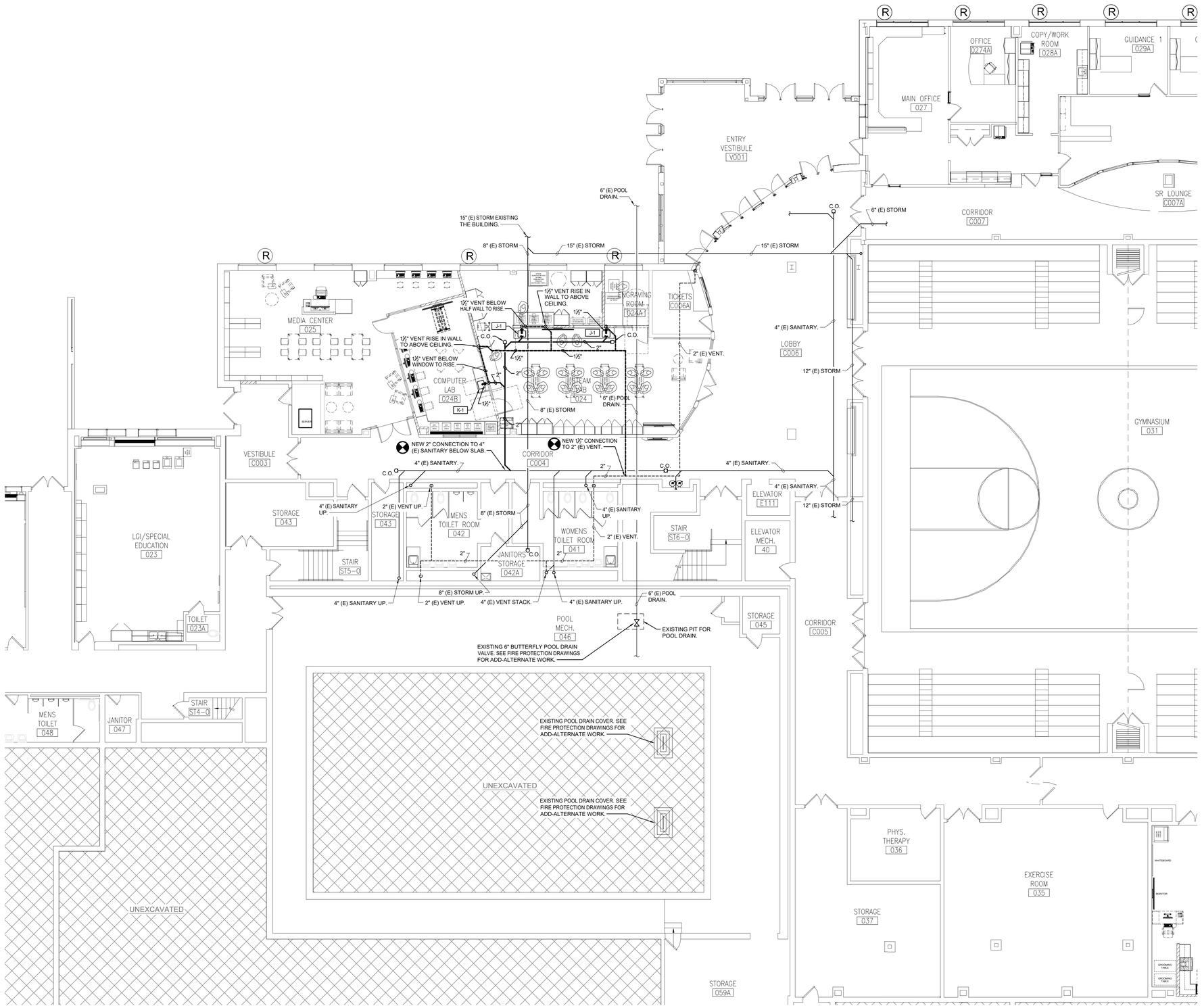

PARTIAL FLOOR PLAN - SANITARY

SCALE: ⅛" = 1'-0"

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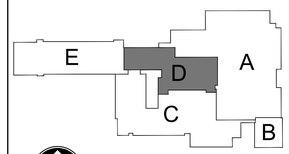

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:
PLUMBING
MEDIA CENTER
SANITARY

DRAWN BY:	CHECKED BY:
D.A.C.	A.J.L.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

P-101

CAD FILE: 5005-P-101.DWG PLOT DATE: 11/11/2025

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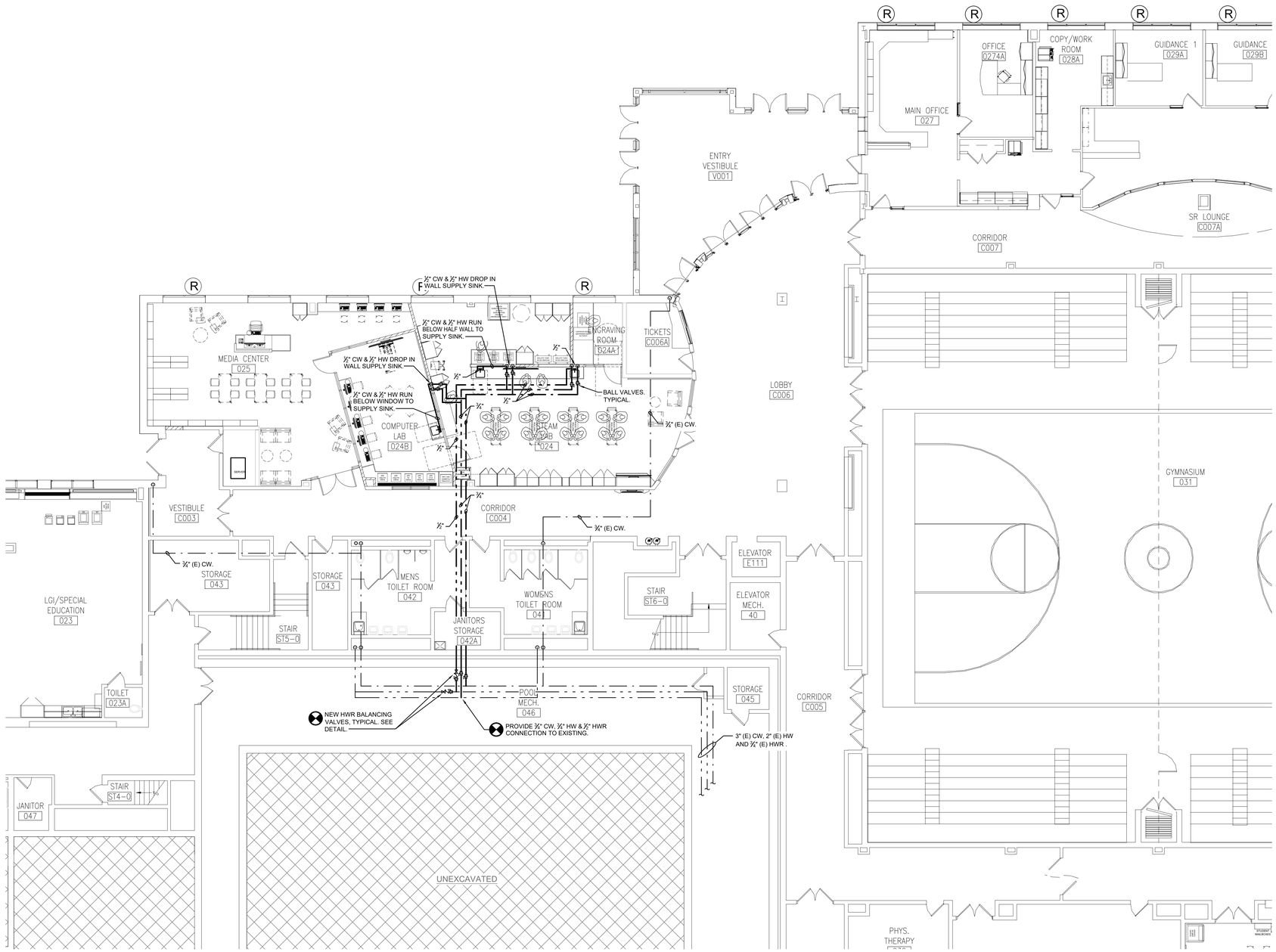

PARTIAL FLOOR PLAN - DOMESTIC WATER

SCALE: ⅛" = 1'-0"

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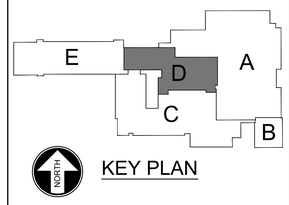

NORTH

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PROJECT TITLE:

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29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:
PLUMBING
MEDIA CENTER
DOMESTIC WATER

DRAWN BY:	CHECKED BY:
D.A.C.	A.J.L.
DATE:	PROJECT NO:
11/10/2025	2025-005

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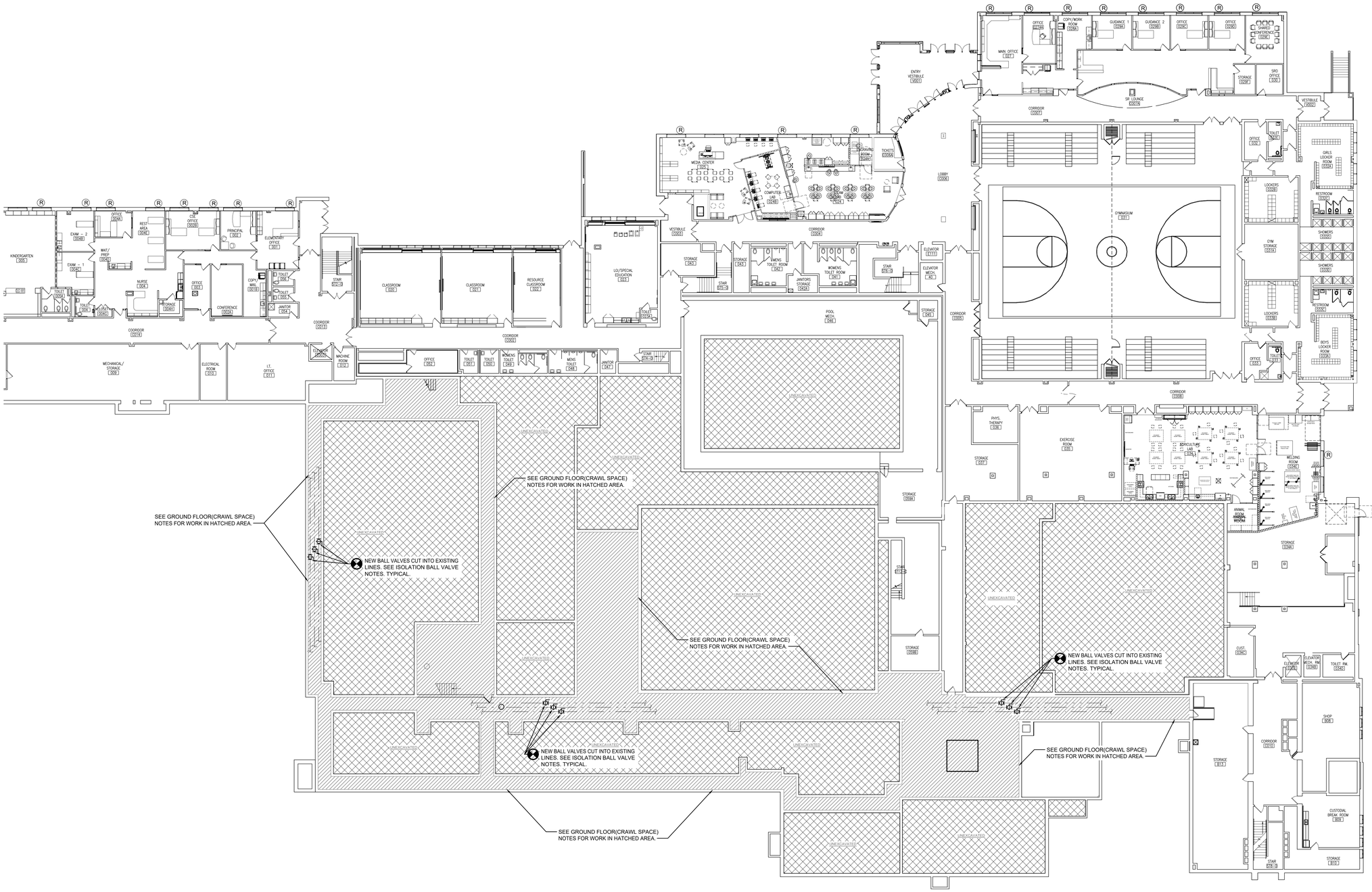
CAD FILE: 5005-P-102.DWG PLOT DATE: 11/11/2025



PARTIAL GROUND FLOOR PLAN - PIPE HANGERS, PIPE INSULATION AND DOMESTIC WATER ISOLATION VALVES

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

GROUND FLOOR (CRAWL SPACE) NOTES:

- PLUMBING CONTRACTOR IS TO PROVIDE A THOROUGH INSPECTION OF ALL PLUMBING PIPING (DOMESTIC WATER, SANITARY AND VENT, STORM WATER, GAS, ETC. IN THE CRAWL SPACE AND EVALUATE THE EXISTING CONDITION OF ALL PIPING SYSTEMS. THIS INSPECTION SHALL BE PERFORMED WITH KIM KNAPP-MORAVCIK (AFTON SCHOOL'S FACILITY DIRECTOR #607-624-8761).
- KIM'S INPUT (KNOWN PROBLEMS AND DEFICIENCIES) AND THE VISUAL INSPECTION WILL DETERMINE THE EXTENT OF THE WORK TO BE PERFORMED IN THE CRAWL SPACE.
- ONCE KNOWN PROBLEMS AND DEFICIENCIES ARE DETERMINED, THE CONTRACTOR SHALL FIX OR PROVIDE NEW AS REQUIRED.
- THIS INCLUDES BUT IS NOT LIMITED TO: REPLACE MISSING OR DAMAGED PIPE INSULATION, FIX OR REPLACE ALL LEAKS WITH SIMILAR PIPE MATERIAL, REPLACE BROKEN OR DAMAGED PIPE HANGERS, ADD PIPE HANGERS AS NEEDED, ETC.
- CONTRACTOR SHALL ALSO PROVIDE DOMESTIC WATER ISOLATION BALL VALVES AT ALL MAIN INTERSECTIONS, ALL RISER BASES TO FLOORS ABOVE, SUPPLIES TO ANY EQUIPMENT, ETC. THIS SHALL ALSO BE COORDINATED WITH KIM FOR USEFULNESS OF BRANCH SHUT-DOWNS WITHOUT SHUTTING DOWN ENTIRE BUILDING.
- NEW BALL VALVE LOCATIONS AND SIZES ARE DIAGRAMMATICAL AND SHOWN FOR REFERENCE. EXACT LOCATIONS AND SIZES SHALL BE DETERMINED IN FIELD BASED ON ACTUAL PIPE ROUTING AND ACCESSIBILITY TO NEW VALVES.
- CONTRACTOR SHALL CUT EXISTING PIPING AND INSULATION TO INSTALL NEW VALVES. REPLACE ANY PIPING AS NEEDED BASED ON CONDITION WHEN EXPOSED.
- PROVIDE NEW INSULATION AS REQUIRED AND TAG ALL VALVES AS PER SPECIFICATIONS.

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PROJECT TITLE:

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29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

PLUMBING COMPOSITE PLAN - GROUND FLOOR HANGERS / INSULATION / VALVES

DRAWN BY:	CHECKED BY:
D.A.C.	A.J.L.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

P-200

CAD FILE: 5005-P-200.DWG PLOT DATE: 11/11/2025

PLUMBING GENERAL NOTES:

1. ALL PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE 2020 NEW YORK STATE PLUMBING CODE, THE 2020 NEW YORK STATE BUILDING CODE, OSHA, THE OWNER'S INSURANCE UNDERWRITERS REQUIREMENTS AND ALL LOCAL CODES AND REGULATIONS.
2. ALL PLUMBING PIPING SHALL BE RUN TIGHT TO STEEL TRUSSES AND RACKED ALONG STEEL AND WALLS WITH A STANDARD PIPE HANGING / RACKING SYSTEM. PIPING SHALL BE RUN CLEAR OF ALL DOORS AND WINDOWS. COORDINATE LOCATIONS WITH OTHER TRADES. WHERE PIPING IS RUNNING PARALLEL AND IN THE SAME VERTICAL PLANE AS ELECTRICAL CABLE TRAYS OR OTHER MAIN ELECTRICAL SYSTEMS, RUN PIPING ON THE BOTTOM.
3. ALL SANITARY, VENT AND STORMWATER DRAIN PIPING SHALL SLOPE AT A MINIMUM OF 1/4" PER FOOT WHERE RUN BELOW GRADE.
4. PROVIDE ALLOWANCE FOR OFFSETS WHERE SANITARY, STORM AND VENT RISERS INTERFERE WITH BUILDING STEEL.
5. PROVIDE ALLOWANCE FOR ALL PLUMBING PIPING FOR ADDITIONAL OFFSETS TO AVOID INTERFERENCES WITH MECHANICAL, ELECTRICAL AND ARCHITECTURAL EQUIPMENT AND SYSTEMS.
6. THESE DRAWINGS ARE DIAGRAMMATIC. PLUMBING CONTRACTOR SHALL COORDINATE ACTUAL LOCATIONS OF PIPING AND EQUIPMENT UNLESS DIMENSIONS ARE SPECIFICALLY CALLED OUT.
7. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE ACTUAL ROUTING OF HIS PIPING WITH THE ARCHITECTURAL CEILINGS, HVAC PIPING, DUCTWORK AND EQUIPMENT, ELECTRICAL LIGHTING, CONDUIT AND EQUIPMENT, AND FIRE PROTECTION PIPING AND VALVES.
8. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR ALL PENETRATIONS THRU FLOOR OR ROOF. VERIFY WITH ALL TRADES, STRUCTURAL MEMBERS, AND WALLS ABOVE AND BELOW. ADJUST PENETRATIONS TO ELIMINATE INTERFERENCES AND TO ENSURE PROPER INSTALLATION.
9. COORDINATE WITH STRUCTURAL STEEL FABRICATOR/INSTALLER ALL FRAMED OPENINGS IN ROOF WITH SUCH AS, BUT NOT LIMITED TO, ROOF DRAINS, VENT STACKS, EXHAUST FANS ETC.
10. EXACT SIZES AND EXACT LOCATIONS OF ALL OPENINGS ARE TO BE VERIFIED WITH THE APPROVED SHOP DRAWINGS ISSUED FOR THE INSTALLATION. THE EXACT SIZES SHALL BE COORDINATED PRIOR TO ANY FABRICATION AND INSTALLATION BY ANY/ALL TRADES. (SIZES AND LOCATIONS INDICATED ON CONTRACT ARE DRAWINGS ARE DIAGRAMMATIC AND FOR INFORMATION ONLY.
11. ALL PLUMBING EQUIPMENT INCLUDING, BUT NOT LIMITED TO, WATER HEATERS, TANKS, ETC. SHALL BE MOUNTED ON A 4" HIGH CONCRETE PAD. PAD SHALL EXTEND 3" PAST EQUIPMENT IN ALL DIRECTIONS UNLESS OTHERWISE NOTED.
12. ALL PIPE PENETRATION SEALING ON THE INTERIOR OF THE BUILDING SHALL BE FURNISHED AND INSTALLED AS PER PROJECT SPECIFICATIONS. ALL PIPE PENETRATIONS SHALL BE FURNISHED AND INSTALLED AS AN APPROVED UL ASSEMBLY.
13. FOR PROPER TRENCHING, BEDDING, AND BACKFILL REQUIREMENTS, THIS CONTRACTOR SHALL REFER TO STRUCTURAL CONTRACT DOCUMENTS AND CIVIL CONTRACT DOCUMENTS. THIS CONTRACTOR SHALL FURNISH AND INSTALL THIS WORK IN ACCORDANCE WITH THE ABOVE REFERENCED DOCUMENTS.
14. SHOCK ABSORBER LOCATION SHOWN FOR REFERENCE ONLY. INSTALL THE SHOCK ABSORBER ON THE OPPOSITE END OF THE WATER SUPPLY (IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS). PIPE THE SHOCK ABSORBER UP TO ABOVE THE FINISHED CEILING AND OUT OF THE CHASE. INSTALL IN AN ACCESSABLE LOCATION (NOT DIRECTLY ABOVE A TOILET ETC.). PROVIDE A 12"X12" ACCESS PANEL IN THE GYPSUM CEILING. COORDINATE THE ACCESS PANEL LOCATION WITH THE SHOCK ABSORBER.
15. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL ALL 1/2" CW , 1/2" HW, 1 ½" SANITARY AND 1 ½" VENT SUPPLIES TO ALL LABORATORY SINKS. FIXTURES TO BE PURCHASED AND INSTALLED BY GENERAL CONTRACTOR (MILLWORK VENDOR). PLUMBING CONTRACTOR SHALL PROVIDE FAUCET MODEL W-0340-6V w/ VACUUM BREAKER BY KEWAUNEE AND MAKE ALL FINAL CONNECTIONS FROM ROUGH-INS TO THE FIXTURES AND PROVIDE ALL TRIM, INCLUDED BUT NOT LIMITED TO TRAPS, TAILPIECES, GRID STRAINERS, SUPPLY STOPS, SUPPLY CONNECTIONS, COUPLINGS, SUPPORTS, ESCHUTEONS, ETC. ALL TRAPS SHALL BE MODEL 0464-00 AND/OR 0469-00 BY KEWAUNEE. ALL SANITARY AND VENT PIPING SHALL BE CPVC MATERIAL AS SPECIFIED PRIOR TO DISCHARGING INTO EXISTING ACID NEUTRALIZATION TANK.
16. 1/2" GAS TO TURRETS, PROVIDE GAS CHECK VALVE, LOCATE VALVE BELOW COUNTER IN CASEWORK. REFER TO ARCHITECTURAL LABORATORY CASEWORK DRAWINGS FOR TURRET TYPE AND LOCATIONS. ALL TURRETS TO BE PURCHASED AND INSTALLED BY GENERAL CONTRACTOR. PLUMBING CONTRACTOR TO MAKE ALL CONNECTIONS.
17. 1/2" GAS, 1/2" CW AND 1/2" HW TO FUME HOOD. REFER TO ARCHITECTURAL LABORATORY CASEWORK DRAWINGS FOR HOOD TYPE AND LOCATIONS. FUME HOODS SUPPLIED BY OTHERS. PLUMBING CONTRACTOR TO MAKE FINAL CONNECTIONS.
18. EMERGENCY GAS SHUT-OFF RELAY PANEL (MERLIN) SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE GAS SOLENOID VALVE CONNECTIONS TO IT.

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	DRAINAGE			WATER			REMARKS
		WASTE	VENT	DFU	CW	HW	WSFU	
D-1	LEARNING KITCHEN	1-1/2"	1-1/2"	2.0	1/2"	1/2"	2.0	DROP IN - STAINLESS STEEL DOUBLE BOWL, HANDICAPPPED USE W/ 0.5 GPM MULTI-LAMINAR SPRAY, WRIST BLADES. SEE SPECS FOR SIZE, PROVIDE DRAIN OPTION REAR CENTER.
E-1	HYDROPONICS HAND WASH	1-1/2"	1-1/2"	2.0	1/2"	1/2"	2.0	DROP IN - STAINLESS STEEL, HANDICAPPPED USE W/ 0.5 GPM MULTI-LAMINAR SPRAY, WRIST BLADES. SEE SPECS FOR SIZE, PROVIDE DRAIN OPTION REAR CENTER.
F	HYDROPONICS GENERAL WASH	1-1/2"	1-1/2"	2.0	1/2"	1/2"	2.0	STAND ALONE - STAINLESS STEEL, REGULAR USE W/ 1.5 GPM MULTI-LAMINAR SPRAY, WRIST BLADES WITH SPRAY HOSE. SEE SPECS FOR SIZE, PROVIDE DRAIN OPTION REAR CENTER.
G	WELDING LAUNDRY TUB	1-1/2"	1-1/2"	3.0	1/2"	1/2"	3.0	STAND ALONE - STAINLESS STEEL, REGULAR USE W/ 1.5 GPM MULTI-LAMINAR SPRAY, WRIST BLADES WITH SPRAY HOSE. SEE SPECS FOR SIZE, PROVIDE DRAIN OPTION REAR CENTER.
H	EYE / FACE WASH WELDING	1-1/2"	1-1/2"	2.0	3/4"	3/4"	2.0	STAINLESS STEEL EYE / FACE WASH. PROVIDE STAINLESS STEEL CABINET WITH EMERGENCY FIXTURE MIXING VALVE.
J-1	MEDIA CENTER	1-1/2"	1-1/2"	2.0	1/2"	1/2"	2.0	UNDERMOUNT STAINLESS STEEL, HANDICAPPPED USE W/ 0.5 GPM MULTI-LAMINAR SPRAY, WRIST BLADES. SEE SPECS FOR SIZE, PROVIDE DRAIN OPTION REAR CENTER.
K-1	HYDROPONICS HAND WASH	1-1/2"	1-1/2"	2.0	1/2"	1/2"	2.0	DROP IN - STAINLESS STEEL, HANDICAPPPED USE W/ 0.5 GPM MULTI-LAMINAR SPRAY, WRIST BLADES. SEE SPECS FOR SIZE, PROVIDE DRAIN OPTION REAR CENTER.

NOTES:

LAVATORIES / SINKS IN PUBLIC TOILET ROOMS, LAVATORIES IN CLASSROOM TOILET ROOMS, LAVATORIES / SINKS IN CLASSROOMS AND LAVATORIES / SINKS IN ALL OTHER ROOMS SHALL BE PROVIDED WITH WATER TEMPERATURE LIMITING DEVICES THAT WILL LIMIT THE WATER DISCHARGE TO A TEMPERATURE NO HIGHER THAN 110°F COMPLYING WITH ASSE 1070 (NSPC 2018, CHAPTER 10, SECTION 10.15.6).

PROVIDE SUPPLY VALVES (¼ TURN BALL VALVES) AT EACH FIXTURE.

PLUMBING GENERAL DEMOLITION NOTES:

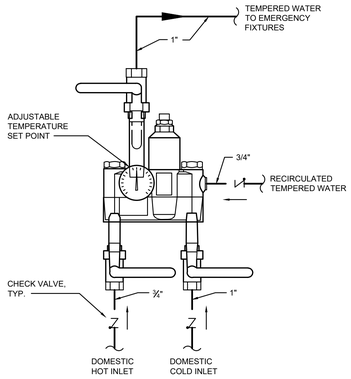
1. REMOVE EXISTING PLUMBING FIXTURES THAT ARE CROSS HATCHED, UNLESS OTHERWISE NOTED INCLUDE ALL PIPING AND ROUGHING (CARRIERS IF REQUIRED), CUT AND CAP LINES AT MAIN, IN WALLS, BELOW FLOORS AND/OR ABOVE CEILING AS REQUIRED AND OUT OF WAY OF NEW CONSTRUCTION. REMOVE EXISTING FLOOR DRAINS WHERE SHOWN CAP OR REPLACE AS REQUIRED. VERIFY ALL LOCATIONS IN FIELD.
2. ALL ACTIVE RISER PIPING, HOT WATER, COLD WATER, RECIRCULATION HOT WATER, STORM WATER, FIRE PROTECTION SANITARY AND VENTING THAT CONTINUES TO NON-RENOVATED AREAS ARE TO REMAIN ACTIVE.
3. INFORMATION PERTAINING TO EXISTING STRUCTURES, FACILITIES, AND UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS PROVIDED BY FACILITIES DEPARTMENT OR WHEN POSSIBLE, BY SURVEY. SEVERAL AREAS DID NOT HAVE ACCESS TO PLUMBING OR ACCESS WAS LIMITED, THEREFORE THE LOCATIONS SHOWN, MUST BE CONSIDERED APPROXIMATE. FIELD VERIFICATION MUST BE DONE AND OTHER SUCH WORK MAY EXIST, DUE TO LOCATION, SIZE, ETC., NOT PRESENTLY KNOWN.
4. CONTRACTOR SHALL VERIFY WITH OWNER IF ANY FIXTURES ARE TO BE SALVAGED. MOVE SALVAGED FIXTURES TO LOCATION SPECIFIED BY THE OWNER. ANY FIXTURES NOT SALVAGED SHALL BE DISPOSED OF IN A LEGAL MANNER.
5. INDICATES AREA OF DEMOLITION BUT LIMITED TO HATCH ONLY. FOLLOW PIPING TO SYSTEM MAINS FOR VALVES AND CAPS.
6. DURING DEMOLITION OF THE WALLS, ALL OF THE EXISTING LOCATIONS OF THE ACTIVE RISERS THAT ARE TO REMAIN MUST BE VERIFIED. THE DRAWING PLAN INDICATES APPROXIMATE LOCATIONS OF RISERS THAT ARE KNOWN, RISERS NOT INDICATED ON THE DRAWING MUST BE VERIFIED. ALL RISERS MUST BE RE-ROUTED FROM BELOW THE FIRST FLOOR TO ABOVE THE FIRST FLOOR CEILING, RISING IN WALLS, CHASES, BUMP-OUTS OR COLUMN ENCLOSURES. RE-CONNECT TO ACTIVE LINES AS REQUIRED.
7. ALL VENT PIPING VERIFIED INACTIVE ON THE FLOOR AND RISING TO THE FLOOR ABOVE IS TO BE DISCONNECTED AND CAPPED AS NEEDED.
8. ANY RAIN WATER DROPS DISCOVERED DURING DEMOLITION SHALL BE REROUTED DURING RENOVATION PHASE.
9. CONTRACTOR SHALL REMOVE AND CAP ANY FLOOR DRAINS, FLOOR SINKS, ETC. PATCH FLOOR TO MATCH EXISTING AND MAKE READY TO RECEIVE NEW FLOORING MATERIAL.
10. EXISTING ROOF DRAINS AND STORM WATER LINES TO REMAIN UNLESS NOTED BECAUSE OF ROOF WORK. REPAIR OR REPLACE ANY DAMAGE DUE TO DEMOLITION OF OTHER WORK AROUND THEM.
11. EXISTING BELOW SLAB STORM WATER TO REMAIN IN AREAS SLAB IS BEING REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXTENT OF SLAB REMOVAL. REPAIR OR REPLACE ANY DAMAGE DUE TO DEMOLITION OF OTHER WORK AROUND THEM.
12. EXISTING BELOW SLAB SANITARY MAINS TO REMAIN IN AREAS SLAB IS BEING REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXTENT OF SLAB REMOVAL. REPAIR OR REPLACE ANY DAMAGE DUE TO DEMOLITION OF OTHER WORK AROUND THEM.

COORDINATION NOTE:

COORDINATION - IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION CONTRACTORS UNDER DIRECTION OF THE CONSTRUCTION MANAGER TO COORDINATE THEIR WORK. THE HVAC CONTRACTOR SHALL TAKE THE LEAD IN THE COORDINATION EFFORT AND PRODUCE THE COORDINATION DRAWINGS. COORDINATION DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BY THE ARCHITECT PRIOR TO STARTING ANY WORK. THE PURPOSE OF THESE DRAWINGS IS TO COORDINATE THE LOCATIONS OF ALL PIPING, DUCTWORK, AND ELECTRICAL EQUIPMENT. SPECIAL ATTENTION IS CALLED TO ARTICLE 110-26 (E) OF THE NATIONAL ELECTRICAL CODE. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6FT. ABOVE THE EQUIPMENT OR TO STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE. THIS COORDINATION IS REQUIRED FOR ALL PHASES OF THIS PROJECT.

CUTTING & PATCHING NOTE:

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CUTTING OR CORE DRILLING FOR HIS PIPING SYSTEM(S) WHERE THEY PENETRATE BUILDING WALLS, FLOORS OR CEILINGS. THESE HOLES SHALL BE A MAXIMUM OF TWO (2) PIPE DIAMETERS LARGER THAN THE PIPE PASSING THROUGH THE HOLES. IT SHALL ALSO BE THIS CONTRACTORS RESPONSIBILITY TO FURNISH AND INSTALL THE REQUIRED PIPE SLEEVES AND FIRE CAULKING AND PIPE ESCUTCHEONS REQUIRED TO PROVIDE A FINISHED PRODUCT. ALL LOCATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR PRIOR TO CUTTING.



NOTES:
- THERMOSTATIC MIXING VALVE TO BE INSTALLED IN SURFACE MOUNTED CABINET.
- FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS.

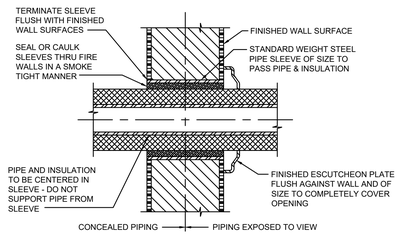
EMERGENCY FIXTURE (TAG "G-1") THERMOSTATIC MIXING VALVE DETAIL

NOT TO SCALE

NOTES:
1. TYPICAL FOR ALL LOCATIONS.
2. ASSEMBLY MUST BE INSTALLED AS DETAILED ABOVE.

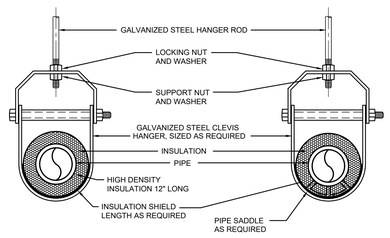
HOT WATER RETURN VALVING SCHEMATIC

NOT TO SCALE



PIPE SLEEVES THRU WALL

NOT TO SCALE



SIZE INSERT TO FIT PIPE AND INSULATION THICKNESS

SIZE HANGER TO FIT INSULATION THICKNESS, INSERT, SHIELD AND ACCESSORIES

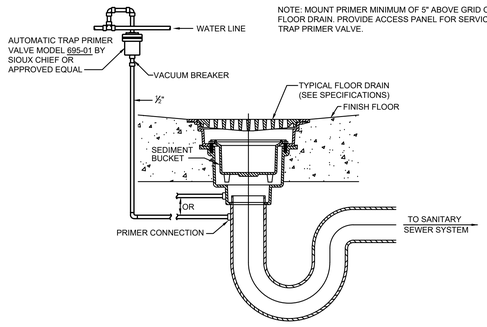
COORDINATE HANGERS WITH STRUCTURAL COMPONENTS

PIPE INSULATION AND JACKET SHALL BE CONTINUOUS, PROVIDE PIPE ACCESSORIES AS REQUIRED

PROVIDE INSERTS AND SHIELDS ON ALL INSULATED PIPING (HOT AND COLD PIPING), REFER TO SPECS

TYPICAL CLEVIS PIPE HANGER DETAIL (WITHIN BUILDING)

NOT TO SCALE



FLOOR DRAIN, PIPE & TRAP PRIMER CONNECTION DETAIL

NOT TO SCALE

PLUMBING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
SAN	SOIL OR WASTE PIPE - SANITARY		FLOOR DRAIN
	VENT PIPE	WCO	WALL CLEAN-OUT/EXPOSED
	VBS (VENT BELOW SLAB)	CO	CLEAN-OUT (IN FLOOR)
	COLD WATER SUPPLY	OR	"P" TRAP
	HOT WATER SUPPLY		SHOCK ABSORBER (S.A.)
	HOT WATER RECIRC.		NEW CONNECTION
	BALL VALVE		CUT AND CAP PIPING TYP.
	BALL VALVE ON RISER	V.T.R.	VENT THRU ROOF
	CHECK VALVE	(E)	EXISTING
	CAPPED/ PLUGGED CONNECTION		

SIZING CHART FOR SHOCK ABSORBERS (S.A.)

P.D.I SYMBOLS	A	B	C	D	E	F
FIXTURE UNIT RATING	1 - 11	12 - 32	33 - 60	61 - 113	114 - 154	155 - 330

TRAP PRIMER DISTRIBUTOR SCHEDULE

MODEL No	DESCRIPTION	MANUFACTURE	REMARKS
695-YS2	WYE SPLITTER (2) 1/2" MIP BRANCHES	SIOUX CHIEF CO.	USE w/ TRAP PRIMER DISTRIBUTORS TO SERVICE UP TO 8 TRAPS FROM A SINGLE TRAP PRIMER
695-D20	DISTRIBUTOR (2) 1/4" MALE SWEAT BRANCHES	SIOUX CHIEF CO.	
695-D30	DISTRIBUTOR (3) 1/4" MALE SWEAT BRANCHES	SIOUX CHIEF CO.	
695-D40	DISTRIBUTOR (4) 1/4" MALE SWEAT CONNECTIONS	SIOUX CHIEF CO.	

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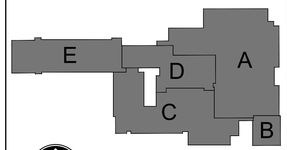

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:
PLUMBING

DRAWN BY:	CHECKED BY:
D.A.C.	A.J.L.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

P-300

CAD FILE: 5005-P-300.DWG PLOT DATE: 11/11/2025

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MECHANICAL / ELECTRICAL EQUIPMENT CONNECTIONS SCHEDULE

EQUIPMENT / TAG	DISCONNECT		STARTER		NOTES
	FURNISHED BY	INSTALLED BY	FURNISHED BY	INSTALLED BY	
EF-1-LC (3-D PRINTING)	M.C.	M.C.	M.C.	M.C.	1 2
EF-2-LC (SUBLIMATION PRINTER)	M.C.	M.C.	M.C.	M.C.	1 2
EF-3-LC (LASER ENGRAVER)	M.C.	M.C.	M.C.	M.C.	1 2
EF-1-(AG) ANIMAL	M.C.	M.C.	M.C.	M.C.	1 2
EF-2 - (AG) WELDING	M.C.	M.C.	M.C.	M.C.	1 2
EF-3-(AG) PLASMA	M.C.	M.C.	M.C.	M.C.	1 2
EF-4-P (CHLORINE STORAGE)	M.C.	M.C.	M.C.	M.C.	1 2
EF-5-P (CO2 STORAGE)	M.C.	M.C.	M.C.	M.C.	1 2
EF-11-P	M.C.	M.C.	M.C.	M.C.	1 2
SC-1, CU-1 (IT OFFICE)	E.C.	E.C.	M.C.	M.C.	1 2
SC-2, CU-2 (E-SPORTS)	E.C.	E.C.	M.C.	M.C.	1 2
SC-3, CU-3 (IT SERVER ROOM)	E.C.	E.C.	M.C.	M.C.	1 2
SC-4, CU-4 (3D PRINTING ROOM)	E.C.	E.C.	M.C.	M.C.	1 2
SC-5, CU-5 (LC SERVER)	E.C.	E.C.	M.C.	M.C.	1 2
ERU-1 (GIRLS LOCKER ROOM)	M.C.	M.C.	M.C.	M.C.	1 2
ERU-2 (BOYS LOCKER ROOM)	M.C.	M.C.	M.C.	M.C.	1 2
RTU-1 (AG)	M.C.	M.C.	M.C.	M.C.	1 2
RTU-2 (LEARNING COMMONS)	M.C.	M.C.	M.C.	M.C.	1 2
ATC-1, ATC-2, ATC-3	M.C.	M.C.	M.C.	M.C.	1 2
DHU-1	M.C.	M.C.	M.C.	M.C.	1 2
CU-DHU-1	M.C.	M.C.	M.C.	M.C.	1 2
H-1, H-2	M.C.	M.C.	M.C.	M.C.	1 2
VAV-1-LC THROUGH VAV-7-LC VAV-1-AG THROUGH VAV-7-AG	E.C.	E.C.	N/A	N/A	1 2
VFD-EF-2-AG	M.C.	M.C.	M.C.	M.C.	1 2
VFD-EF-3-AG	M.C.	M.C.	M.C.	M.C.	1 2

M/E EQUIPMENT CONNECTIONS SCHEDULE NOTES:

1. THE MECHANICAL/ELECTRICAL EQUIPMENT CONNECTIONS SCHEDULE AND ACCOMPANYING NOTES ARE INTENDED TO CLEARLY DEFINE WHICH CONTRACTOR FURNISHES AND INSTALLS STARTERS AND DISCONNECTS AND SHALL BECOME PART OF THE SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER WIRING AND FINAL POWER CONNECTIONS. ALL CONTROL WIRING SHALL BE FURNISHED, INSTALLED AND FINAL CONNECTION BY THE TRADE SUPPLYING THE EQUIPMENT.
2. E.C. - ELECTRICAL CONTRACTOR
   M.C. - MECHANICAL CONTRACTOR (HVAC)
   P.C. - PLUMBING CONTRACTOR
   MFR - MANUFACTURER
   N/A - NOT APPLICABLE

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	LAMPS	VOLTS	DESCRIPTION
A	AXIS DESIGNFLEX	SCRG-300-80-35 FL-TR60X2-12+B(2)	LED 300 LUMENS / FT 3.8 W/FT	120/277V	TRAPEZOID SHAPED FIXTURE, TO WORK WITH ARCHITECTURAL GRID CEILING. FIXTURE TO BE GRID MOUNTED. E.C. TO COORDINATE WITH ARCHITECTURAL FOR FIXTURE COLOR AND GRID MOUNTING SIZE. FOR EMERGENCY FIXTURE INCLUDE BATTERY BACKUP FOR 1 FIXTURE.
B	AXIS DESIGNFLEX	SCRG-300-80-35 FL-TP60X2-120+B(2)	LED 300 LUMENS / FT 3.8 W/FT	120/277V	TRIANGLE SHAPED FIXTURE, TO WORK WITH ARCHITECTURAL GRID CEILING. FIXTURE TO BE GRID MOUNTED. E.C. TO COORDINATE WITH ARCHITECTURAL FOR FIXTURE COLOR AND GRID MOUNTING SIZE. FOR EMERGENCY FIXTURE INCLUDE BATTERY BACKUP FOR 1 FIXTURE.
C	AXIS STENCIL	STI-4-250-80-35 SL-W-120-DP-1+E(1)	LED 250 LUMENS/FT 10 W	120/277V	CUSTOM STENCIL PATTERN, WITH 4FT STRIGHT PIECES WITH 120° DEGREE NON-ILLUMINATED ANGLES. INDIRECT LIGHTING FIXTURE. FOR EMERGENCY EGRESS TAGGED SECTION HAS (4) 4' STRAIGHT RUNS HAS EMERGENCY BATTERY BACK UP. PENDANT HUNG AT 8.5' A.F.F. COORDINATE FINISH WITH ARCHITECT.
D	ARKTURA IN-LINE	ARKTURA INLINE 10W/FT - 8'	LED 2084 LUMENS/FT 80W	120/277V	8' LONG, CEILING GRID FIXTURE. 90 CRI, 4000K CCT, 0-10V DIMMING. REPLACES 1 SEGMENT OF T-GRID.
D, EM	ARKTURA IN-LINE	ARKTURA INLINE 10W/FT - 4'	LED 2084 LUMENS/FT 40W	120/277V	4' LONG, CEILING GRID FIXTURE. 90 CRI, 4000K CCT, 0-10V DIMMING. REPLACES 1 SEGMENT OF T-GRID. E.C. TO INCLUDE BATTERY AND ELCU FOR 4' SEGMENT ONLY.
F	AXIS STENCIL - SOFTZONE	STSZ-SLI(4,175)-DSO(4,400) +AH(6)-9C-4000-C-120-DP-1+E(1) CTS(6)-SC-BR(1)-+HET	LED 400D/175U LUMENS/FT 4 W/FT	120/277V	4' STRAIGHT PIECES, AND 6 - 120° CORNERS TO MAKE A HEXAGON SHAPE. 4000K COLOR TEMP, 90CRI, 0-10V DIMMING. PENDANT HUNG AT 10FT A.F.F. FOR EMERGENCY EGRESS TAGGED DEVICES (1) 4' STRAIGHT RUN HAS EMERGENCY BATTERY BACK UP. FIXTURE TO BE FILLED WITH ACOUSTIAL PANEL COORDINATE FINISHES WITH ARCHITECT.
G	PRESCOLITE 4" DOWNLIGHT	LFR-4RD-SL-10L-DM1 LTR-4RD-T-SL-40K8-MD-S-FM	LED 1000 LUMENS 12 W	120/277V	4" ROUND DOWNLIGHT.4000K COLOR TEMP 80 CRI TO MATCH LIGHTING WITHIN AG. SPACE. PENDANT HUNG AT 10FT A.F.F.
H0	COLUMBIA CSL-4	CSL4-A-LSCS-4840LM-4000K + CM48SCF5-KIT	LED 4850 LUMENS 36 W	120/277V	4' LINEAR STRIPLIGHT, PENDANT HUNG 10FT A.F.F, FIELD ADJUSTABLE CCT & LUMENS, 0-10V DIMMING. EM FIXTURES TO INCLUDE EMERGENCY BATTERY.
H1	COLUMBIA CSL-4	CSL4-A-LSCS-4840LM-4000K	LED 4850 LUMENS 36 W	120/277V	4' LINEAR STRIPLIGHT, SURFACE MOUNTED TO TGRID CEILING. FEILD ADJUSTABLE CCT & LUMENS, 0-10V DIMMING.
J	PRESCOLITE 6" DOWNLIGHT	LFR-4RD-SL-10L-DM1 LTR-4RD-T-SL-40K8-MD-S-FM	LED 1000 LUMENS 12 W	120/277V	6" ROUND DOWNLIGHT. 4000K COLOR TEMP 80 CRI.
K	EXO SGC-F	SGC-F-60-LSCS	LED 3375 LUMENS 25 W	120/277V	10"X10" CANOPY MOUNTED FIXTURE. 70CRI, 4000K CCT. FEILD SELECTABLE WATTAGE, CRI AND CCT.
L	EXO SLING	SG1-30-4K7-FT-UNV-DBT-PCU 8F-CS	LED 2310 LUMENS 20W	120/277V	NON-EMERGENCY WALLPACK LIGHTING FIXTURE WITH 70 CRI, 4000 CCT.
M	SLED LUMTECH	SLED3612-40-WH-SG-BM	LED 685 LUMENS 12.4W	120V	36" X 1.0625" X 1.1875" RECESSED COVE FIXTURE, 4000K COLOR TEMPERATURE, DIMMABLE FIXTURE WITH HARDWIRED JUNCTION BOX.
	EM. EXIT WILLIAMS	SF-R-MP-WHT-EM-D	LED	120/277V	EMERGENCY EXIT SIGN WITH 90 MINUTE BATTERY. MIRRORED PANEL WITH RED LETTERING, COORDINATE HOUSING COLOR WITH ARCHITECT.
	EM. EGRESS WILLIAMS	EMER/CP/ADJ/LED-WHT-D	LED	120/277V	EMERGENCY EGRESS LIGHTING WITH 90 MINUATE BATTERY. COORDINATE HOUSING COLOR WITH ARCHITECT.

NOTES:
1. REFER TO DRAWING E101 FOR LIGHTING FIXTURE SCHEDULE FOR STAIRCASE LIGHTING FIXTURES.
2. COORDINATE ALL FIXTURE FINISHES WITH ARCHITECT.
3. WHERE FIXTURES ARE SHOWN ON THE FLOOR PLANS WITH EMERGENCY BACK UP THE E.C. SHALL PROVIDE REQUIRED EMERGENCY BATTERY BACKUP MODULE FOR THE FIXTURE OR SECTION OF FIXTURE TO ACCOMMODATE EMERGENCY LIGHTING REQUIREMENT.

COORDINATION NOTE:

COORDINATION - IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION CONTRACTORS TO COORDINATE THEIR WORK. THE HVAC CONTRACTOR SHALL TAKE THE LEAD IN THE COORDINATION EFFORT AND PRODUCE THE COORDINATION DRAWINGS. COORDINATION DRAWINGS SHALL BE SUBMITTED FOR APPROVAL BY THE ARCHITECT PRIOR TO STARTING ANY WORK. THE PURPOSE OF THESE DRAWINGS IS TO COORDINATE THE LOCATIONS OF ALL PIPING, DUCTWORK, AND ELECTRICAL EQUIPMENT. SPECIAL ATTENTION IS CALLED TO ARTICLE 110-26 (F) OF THE NATIONAL ELECTRIC CODE. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6FT. ABOVE THE EQUIPMENT OR TO STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE LOCATED IN THIS ZONE. THIS COORDINATION IS REQUIRED FOR ALL PHASES OF THIS PROJECT.

COORDINATION NOTE:

COORDINATION - IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REVIEW ALL ARCHITECTURAL PLANS FOR FULL UNDERSTANDING OF THE SCOPE OF WORK. ELECTRICAL WORK NOTED ON ARCHITECTURAL DRAWINGS IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

COMMON ABBREVIATIONS

AMP./ A.	AMPERE
AMP.	ALTERNATING CURRENT
ACT.	ACOUTICAL TILE
A/C.	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
A.I.C	AMPERES INTERRUPTING CAPACITY
A.T.C.	AUTOMATIC TEMPERATURE CONTROL
A.T.S.	AUTOMATIC TRANSFER SWITCH
AUX.	AUXILIARY
B.F.C	BELOW FINSIHED CEILING
BLDG.	BUILDING
BKR.	BREAKER
BSMT.	BASEMENT
.C.	CENTIGRADE DEGREES
CLG.	CEILING
CKT.	CIRCUIT
CB.	CIRCUIT BREAKER
COL.	COLUMN
CCTV	CLOSED CIRCUIT TELEVISION
C.	CONDUIT
CONDR.	CONDUCTOR
CONTR.	CONTRACTOR
CU	COPPER
DEMARC.	DEMARCATION
DISC	DISCONNECT SWITCH
DMSC	DUAL MODE SYSTEM CONTROLLER
DN	DOWN
EA	EACH
E.F.	EXHAUST FAN
ELEC.	CL. ELECTRICAL CLOSET
ELEC	ELECTRICAL
E.C.	ELECTRICAL CONTRACTOR
ELEV.	/ EL. ELEVATION / ELEVATOR
E.M.A.	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EQUIP.	EQUIPMENT
FDS	FUSED DISCONNECT
FT.	FEET
FL.	FLOOR
FLA.	FULL LOAD AMPERES
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
GEN.	GENERATOR
G.F.I.	GROUND FAULT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
HP	HORSEPOWER
HZ	HERTZ
IMC	INTERMEDIATE CONDUIT
INSUL.	CO. INSULATED COPPER
JB	JUNCTION BOX
KW	KILOWATT
KVA	KILOVOLT-AMPERE
LG.	LENGTH
LF	LINEAR FEET
M.C.	MECHANICAL CONTRACTOR
MDS	MAIN DISTRIBUITION SWITCHBOARD
MDP	MAIN DITRIBUTION PANEL
MANUF.	MANUFACTURER
MAX.	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MECH.	MECHANICAL
KCMIL	THOUSAND CIRCULAR MILLS
MTD	MOUNTED
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MO	MOTOR OPERATED
N.	NETURAL
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NUM/ #	NUMBER
%	PERCENT
~/ PH / Ø	PHASE
PB	PULLBOX
PH	PHASE
PNL	PANEL
P.C.	PLUMBING CONTRACTOR
NO.	PRIMARY
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL CONDUIT
SECT	SECTION
SEC	SECONDARY
SERV	SERVICE
S.F.A.	SQUARE FEET
SW.G.	SWITCH
SWBD	SWITCHBOARD
SN	SOLID NEUTRAL
SURF	SURFACE
TELECOMM	TELECOMMUNICATIONS
TH	THICK
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS UNDERWISE NOTED
V	VOLTAGE / VOLTS
WP	WEATHERPROOF
W/	WITH
W/O	WITHOUT
XFMR	TRANSFORMER

LIGHTING

- INDICATES FIXTURE TYPE
- 2'X2' LINEAR LED LIGHTING FIXTURE
  - LOWERCASE LETTER INDICATES CONTROL ZONE
  - HALF SHADING & 'EM' INDICATES EMERGENCY BATTERY BACKUP
- 2'X4' LINEAR LED LIGHTING FIXTURE
- 2"X4' LINEAR LED LIGHTING FIXTURE
- CIRCULAR LED LIGHTING FIXTURE
- WALL MOUNTED FIXTURE
- WALL MOUNTED BATTERY UNIT WITH DUAL HEADS. BATTERY UNIT TO BE CONNECTED TO CIRCUIT AHEAD OF SWITCHING. +80" FROM BOTTOM OF DEVICE.
- WALL MOUNTED EXIT SIGN. BATTERY UNIT TO BE CONNECTED TO CIRCUIT AHEAD OF SWITCHING. MOUNTED 2" ABOVE DOOR FRAME.
- CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH MANUAL OVERRIDE SWITCH. _____
- CEILING MOUNTED DAYLIGHT SENSOR WITH MANUAL OVERRIDE SWITCH. _____
- WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH MANUAL OVERRIDE SWITCH. MOUNTED AT 42" A.F.F. _____
- WALL MOUNTED SWITCH. MOUNTED AT 42" A.F.F. U.O.N.
  - 'D' INDICATES SWITCH WITH DIMMER
  - '3' INDICATES A 3 WAY WALL SWITCH
  - '4' INDICATES A 4 WAY SWITCH
  - 'LV' INDUCATES LOW VOLTAGE CONTROL SWITCH
  - LOWERCASE LETTER DESIGNATES CONTROL ZONE
- WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR WITH MANUAL OVERRIDE SWITCH. MOUNTED AT 42" A.F.F. _____

POWER

- BRANCH CIRCUIT WIRING CONCEALED IN WALL OR ABOVE CEILING. 'Y' IS PANEL, 'X' IS CIRCUT (POLE) AT PANELBOARD.
- JUNCTION BOX MOUNTED FLUSH TO WALL OR WITHIN CEILING
- 208/120V BRANCH CIRCUIT PANELBOARD-SURFACE MOUNTED.
- WALL OUTLET BOX AND 20 AMP DUPLEX RECEPTLE MOUNTED RECESSED 18" A.F.F. TO CENTERLINE (TYP. FOR ALL RECEPTACLES UNLESS OTHERWISE NOTED.)
  - 'GFI' INDICATES GROUND FAULT CIRCUIT INTERRUPTER (GFCI) RECEPTACLE
  - SHADING INDICATES MOUNTING AT COUNTER HEIGHT (+42" TO CENTERLINE. U.O.N.)
  - 'WP' INDICATED WEATHERPROOF IN-USE COVER & GFCI RECEPTACLE
  - 'USB' INDICATES A DUPLEX WITH BUILT IN USB PORTS
- WALL OUTLET BOX AND 20 AMP QUAD RECEPTLE MOUNTED RECESSED 18" A.F.F. TO CENTERLINE (TYP. FOR ALL RECEPTACLES UNLESS OTHERWISE NOTED.)
- FUSED DISCONNECT SWITCH. SIZE AS NOTED.
- DISCONNECT SWITCH. SIZE AS NOTED.
- MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOADS (UNLESS OTHERWISE NOTED.) SIZED TO PROTECT EQUIPMENT SERVED.
- MECHANICAL EQUIPMENT TAG
- MOTOR CONNECTION NUMBER INDICATES HORSEPOWER
- SPECIALTY RECEPTACLE, AS INDICATED ON DRAWINGS
- EMERGENCY POWER OFF PUSHBUTTON
- OVERHEAD DOOR OPERATOR

ONE-LINE LEGEND

- SINGLE SECTION POWER PANEL
- ENERGY EFFICIENT DRY-TYPE TRANSFORMER. ELECTRICAL CHARACTERISTICS AND PHYSICAL SIZE, AS INDICATED ON DRAWINGS
- CIRCUIT BREAKER
- MOTOR, SIZE AS INDICATED
- AUTOMATIC TRANSFER SWITCH
- FUSE AND SWITCH

SPECIAL SYSTEMS

- FIRE ALARM SYSTEM MANUAL PULL STATION. MOUNTED AT 42" A.F.F. TO CENTERLINE.
- WALL MOUNTED MULTI-TAP (15/30/75/110 CD) ADA COMPLIANT FIRE ALARM SPEAKER/VISUAL UNIT WITH VOICE NOTIFICATION CAPABILITIES (MOUNT 80" A.F.F. TO BOTTOM)
- WALL MOUNTED MULTI-TAP (15/30/75/110 CD) ADA COMPLIANT FIRE ALARM VISUAL ONLY UNIT. (MOUNT 80" A.F.F. TO BOTTOM)
- CEILING MOUNTED SMOKE DETECTOR
- CEILING MOUNTED AUDIO/VISUAL FIRE ALARM UNIT
- HVAC SYSTEM DUCT DETECTOR
- CEILING MOUNTED HEAT DETECTOR
- CEILING MOUNTED WIRELESS ACCESS POINT
- CLOCK & PA SYSTEM SPEAKER
- EMERGENCY LOCKDOWN BUTTON
- CEILING MOUNTED PA SPEAKER
- DATA/PHONE JACK
- HDMI PORT TO TV, SMARTBOARD OR PROJECTOR PORT
- CCTV CAMERA
- POWER AND DATA SURFACE MOUNTED RACEWAY
- EMERGENCY LOCKDOWN STROBE LIGHT
- FLOOR RECEPTACLE AND DATA.
- CARD READER

GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK PREFORMED SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC)
2. ALL WIRING, UNLESS OTHERWISE NOTED (U.O.N.) ON DRAWINGS, SHALL BE TYPE "THHN" MINIMUM #12 AWG. ALL WIRING SHALL BE COPPER CONDUCTORS; ALUMINUM AND ALUMINUM ALLOY CONDUCTORS WILL NOT BE ACCEPTED.
3. ALL BRANCH CIRCUIT WIRING SHALL UTILIZE AT A MINIMUM ¾" EMT CONDUIT
4. ELECTRICAL CONTRACTOR (E.C) SHALL IDENTIFY ALL JUNCTION AND PULLBOXES ABOVE CEILING WITH THE PANELBOARD AND BRANCH CIRCUIT NUMBER MARKED ON THE COVERPLATE. PROVIDE ENGRAVED BAKELTE NAMEPLATES (1-3/4" X 3-1/2" WITH ¼" LETTERS FOR PANELS, MOTOR SAFETY DISCONNECTS AND CONTROL STATIONS. A NEW TYPEWRITTEN DIRECTORY SHALL BE PROVIDED AND PLACED AT ALL PANELBOARDS WHICH HAVE BEEN AFFECTED BY THE ELECTRICAL CONTRACT SCOPE.
5. ALL THE CIRCUITING SHOWN IS DIAGRAMMATIC. THE CONTRACTOR SHALL PROVIDE JUNCTION AND PULLBOXES AS REQUIRED BY THE NEC. ALL CONDUITS SHALL BE SIZED IN A CCORDANCE WITH THE NEC UNLESS SHOWN LARGER ON DRAWINGS, HOWEVER NO CONDUIT SHALL BE LESS THAN ½" FOR CONTROLS AND ¾" FOR POWER.
6. ALL CONDUIT EXPOSED TO THE WEATHER SHALL BE STANDARD WALL RIGID GALVANIZED STEEL CONDUIT U.O.N.
7. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT AND DEVICES.
8. IT WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE FOR TEMPORARY POWER AND LIGHTING FOR ALL WORK AREAS FOR ALL TRADES AS WELL AS TO KEEP A SAFE AND NEAT WORKPLACE.
9. A GROUNDING CONDUCTOR MUST BE PROVIDED IN ALL BRANCH CIRCUITS AND FEEDER CONDUITS. ALL GROUND CONDUCTORS SHALL BE AS REQUIRED BY NEC ARTICLE 250.
10. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED DURING THE CONSTRUCTION OF HIS WORK. ANY AND ALL REPAIR AND/OR REPLACEMENT SHALL MEET THE REQUIREMENTS OF THE ARCHITECT / ENGINEER.
11. IT IS THE INTEND OF THE ELECTRICAL DRAWINGS TO PROVIDE THE CONTRACTOR WITH SUFFICIENT INFORMATION IN ORDER TO PROVIDE AN INSTALLATION COMPLETE IN EVERY RESPECT. THE DRAWINGS ARE DIAGRAMMATIC IN CHARACTER AND DO NOT SHOW EVERY CONNECTION OR INSTALLATION IN DETAIL OR ITS EXACT LOCATION. CONTRACTOR SHALL CAREFULLY INVESTIGATE, COORDINATE WITH OTHER TRADES, AND VERIFY ALL FIELD CONDITIONS AND ACTUAL LOCATIONS OF ALL ITEMS SHOWN ON DRAWINGS PRIOR TO COMMENCING ANY WORK. SHOULD THE DRAWINGS DISAGREE WITH ACTUAL CONDITIONS CONTRACTOR SHALL BRING UP IT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER TO IDENTIFY DISCREPANCIES AND/OR CONFLICTS.
12. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER ACCORDING TO THE NATIONAL ELECTRICAL CODE (NEC). THE COMPLETE SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY THE ENGINEER/ARCHITECT PRIOR TO PROJECT COMPLETION.
13. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT AND/OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
14. ALL EXTERIOR BUILDING EQUIPMENT TO BE WEATHERPROOF NEMA 3R MINIMUM UNLESS OTHERWISE NOTED.
15. WHERE THE CONTRACTOR COMBINES MULTIPLE CIRCUITS IN ONE CONDUIT, THEY SHALL INSTALL ALL HOMERUN BRANCH AND FEEDER WIRING IN ACCORDANCE WITH NEC 310 AND NEC CHAPTER 9, REGARDING DERATING OF CONDUCTOR AMPACITIES. ALL INDIVIDUAL CIRCUITS COMBINED WITHIN COMMON CONDUIT SHALL BE PROVIDED WITH SEPARATE NEUTRAL CONDUCTORS. SHARING OF NEUTRAL CONDUCTORS BY MULTIPLE CIRCUITS IS NOT PERMITTED.
16. EMPTY CONDUITS FOR COMMUNICATION CABLE TV, ETC. SHALL BE PROVIDED WITH A CONDUIT PULLING LINE. LINE SHALL BE RATED 130LBS. CONDUITS STUPPED TO ABOVE ACCESSIBLE CEILING SHALL BE PROVIDED WITH A TERMINATION BUSHING.
17. RECEPTACLES SHALL BE MOUNTED VERTICALLY UNLESS OTHERWISE INDICATED. MOUNTING HEIGHT FOR RECEPTACLES SHALL BE 18" A.F.F. TO CENTER UNLESS OTHERWISE INDICATED.
18. DO NOT SCALE THE ELECTRICAL DRAWINGS, REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR THE EXACT LOCATION OF EQUIPMENT AND DEVICES.
19. DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK ENCLOSURES AS REQUIRED BY NEC ARTICLE 430. MAXIMUM MOUNTING HEIGHT SHALL BE 5'6" TO TO CENTER OF HANDLE.
20. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABORATORY (UL) LABELS WHERE APPLICABLE.
21. ALL BREAKERS SHALL BE NEW, PROVIDE FULL-SIZE BREAKERS.
22. ALL TWO OR THREE PULL BREAKERS SHALL BE COMMON TRIP. TIE HANDLES OR TANDEMS WILL ARE NOT PERMITTED.
23. ALL FUSES, UNLESS NOTED ON DRAWING, SHALL BE CURRENT LIMITING FUSES (C.L.) RATED FOR 200,000 A.I.C.
24. CONNECTION TO MOTOR TERMINAL BOXES, SOLENOIDS, AND ANY OTHER DEVICES HAVING ADJUSTABLE MOUNTING FACILITIES OR WHICH ARE SUBJECT TO VIBRATION SHALL BE MADE IN LIQUID TIGHT FLEXIBLE METAL CONDUIT WHEREVER A FLEXIBLE CONDUIT IS EMPLOYED.
25. THE DIRECTION OF ROTATION OF ALL MOTORS SHALL BE VERIFIED. BEFORE TESTING FOR ROTATION ALL COUPLINGS SHALL BE DISCONNECTED TO PREVENT DAMAGE TO DRIVEN EQUIPMENT.
26. ALL RECEPTACLES LOCATED PER NEC SECTION 210.8 SHALL BE GFCI TYPE.
27. ABOVE CEILING JUNCTION BOXES/PULLBOXES SHALL BE INSTALLED WITH THE BOX OPENING FACING DOWN.
28. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING: ALL JUNCTION, METAL OR NON-METALLIC CONDUIT, WIRING AS REQUIRED; OUTLETS WITH COVERS, SWITCHES; OUTLETS WITH COVERS, SWITCHES, CONNECTORS, CONTROLS AND OTHER ACCESSORIES AS REQUIRED TO MAKE FINAL CONNECTIONS TO ALL ELECTRICAL EQUIPMENT SHOWN FOR A COMPLETE AND FUNCTIONAL OPERATION MEETING ALL APPLICABLE CODES AND ORDINANCES.
29. NO PART OF ANY JUNCTION BOX/PULLBOX SHALL BE INSTALLED OVER A LIGHT FIXTURE.
30. THE CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING, FOR COMPLETE ELECTRICAL SCOPE OF WORK.
31. THE CONTRACTOR SHALL CLEAN UP THE CONSTRUCTION SITE AT THE END OF EACH WORKING DAY AND REMOVE ALL TRASH AND DEBRIS CREATED BY HIS TRADE FROM THE PREMISES. THE CONTRACTOR SHALL NOT ALLOW ADJACENT AREAS TO BECOME DUSTY, DIRTY, OR CLUTTERED AS A RESULT OF THE CONSTRICTION OPERATION.
32. THE LISTING OF PRODUCT MANUFACTURERS, MATERIALS AND METHODS ARE THE BASIS OF DESIGN AND ARE INTENDED TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER SHALL BE SOLE JUDGE OF QUALITY AND EQUIVALENCE OF EQUIPMENT, MATERIALS AND METHODS. WHERE SUBSTITUTED OR ALTERNATIVE EQUIPMENT IS PROPOSED ON THE PROJECT BEFORE BIDDING, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT THE EQUIPMENT IS PROPOSED ON THE PROJECT BEFORE BIDDING, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE EQUIPMENT WILL FIT THE SPACE AVAILABLE, INCLUDING ALL REQUIRED CODE AND MAINTENANCE CLEARANCES AND TO COORDINATE ALL EQUIPMENT REQUIREMENTS WITH OTHER CONTRACTORS.

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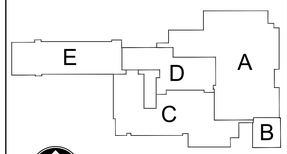

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

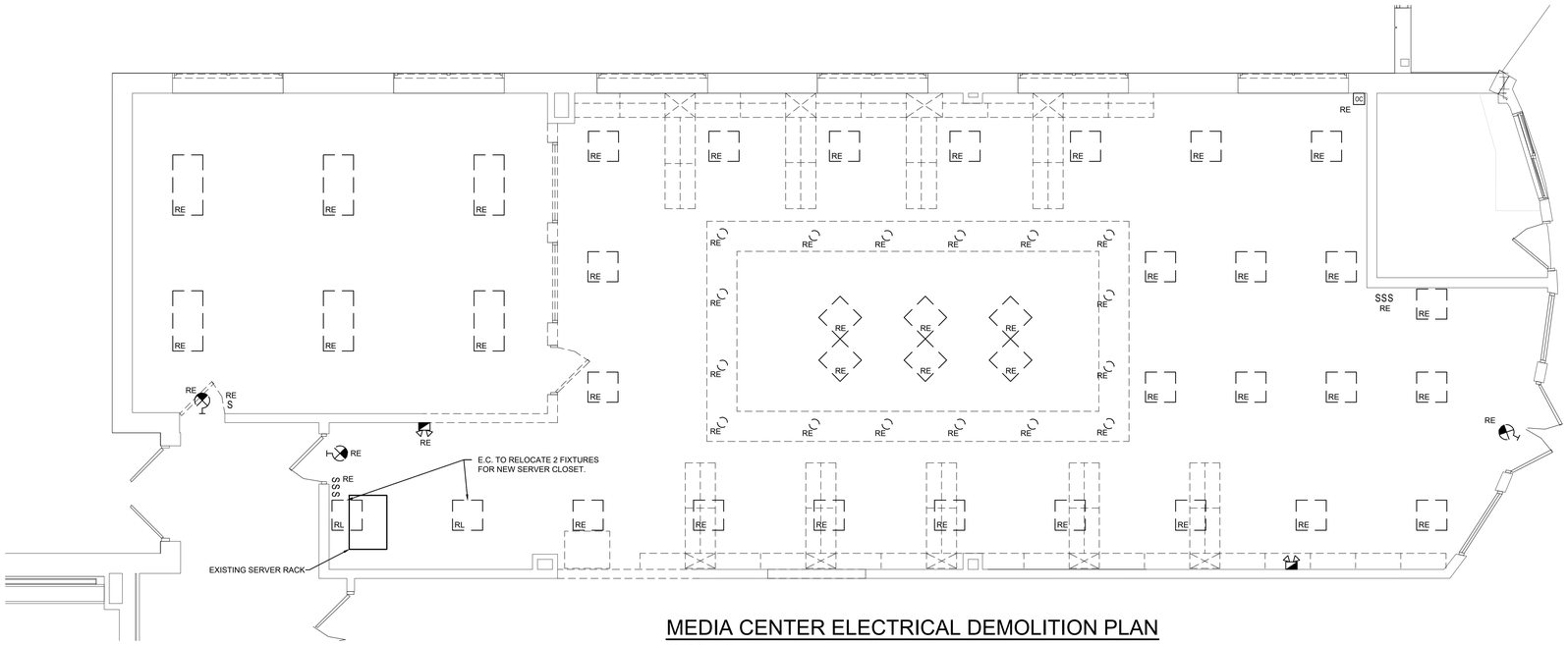
ELECTRICAL LEGEND

DRAWN BY:	CHECKED BY:
MLT / TBH	LKN
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

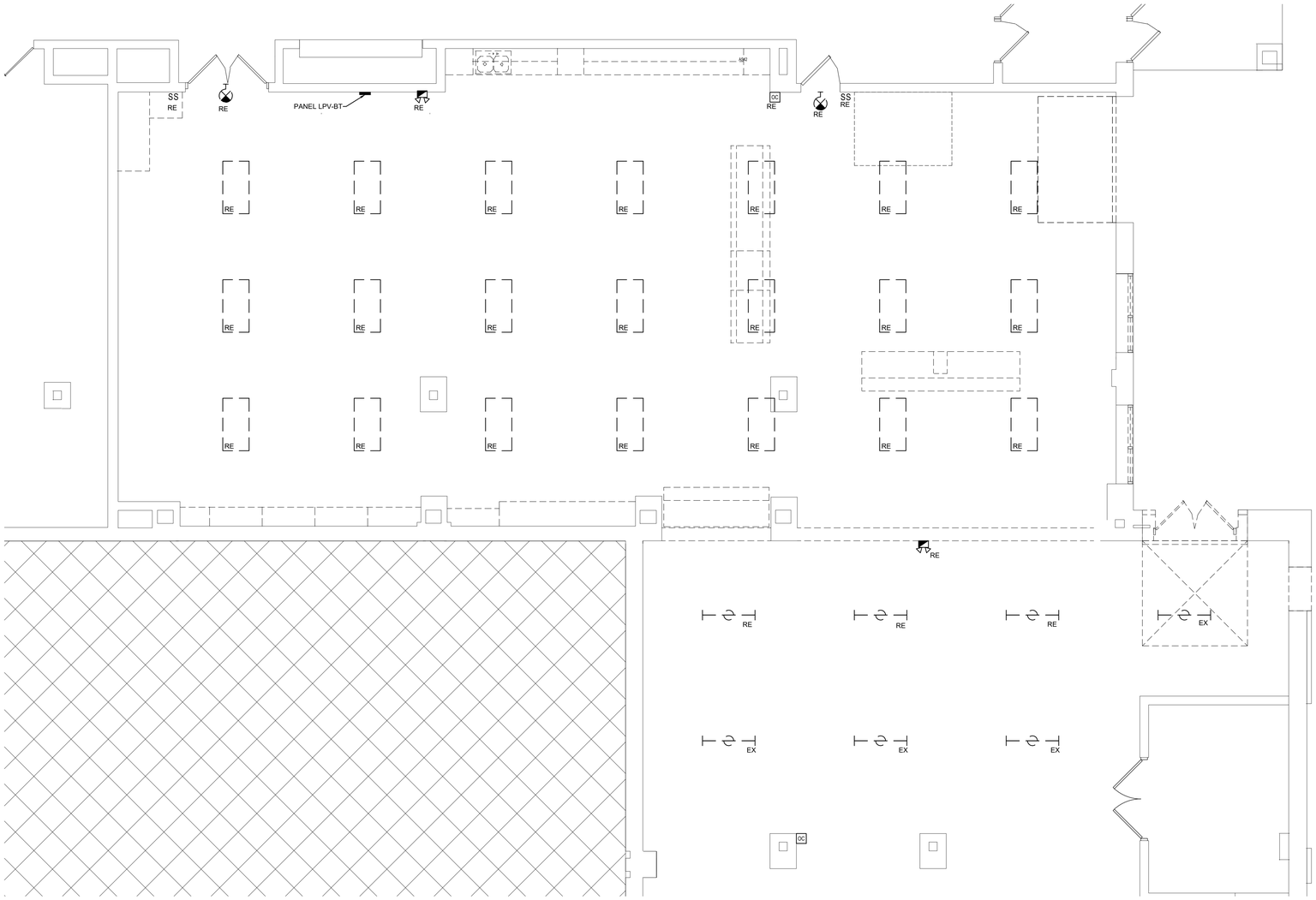
E-000

CAD FILE: 5005-E-000.DWG PLOT DATE: 11/10/2025



MEDIA CENTER ELECTRICAL DEMOLITION PLAN

SCALE: $\frac{1}{8}$" = 1' - 0"

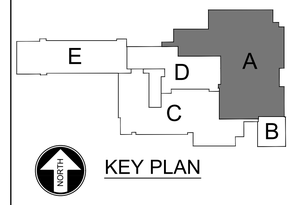


AGRICULTURE AND TECHNOLOGY ROOM ELECTRICAL DEMOLITION PLAN

SCALE: $\frac{1}{8}$" = 1' - 0"

DEMOLITION KEY:

(RL) - RELOCATE
(RE) - REMOVE
(EX) - EXISTING TO REMAIN



KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

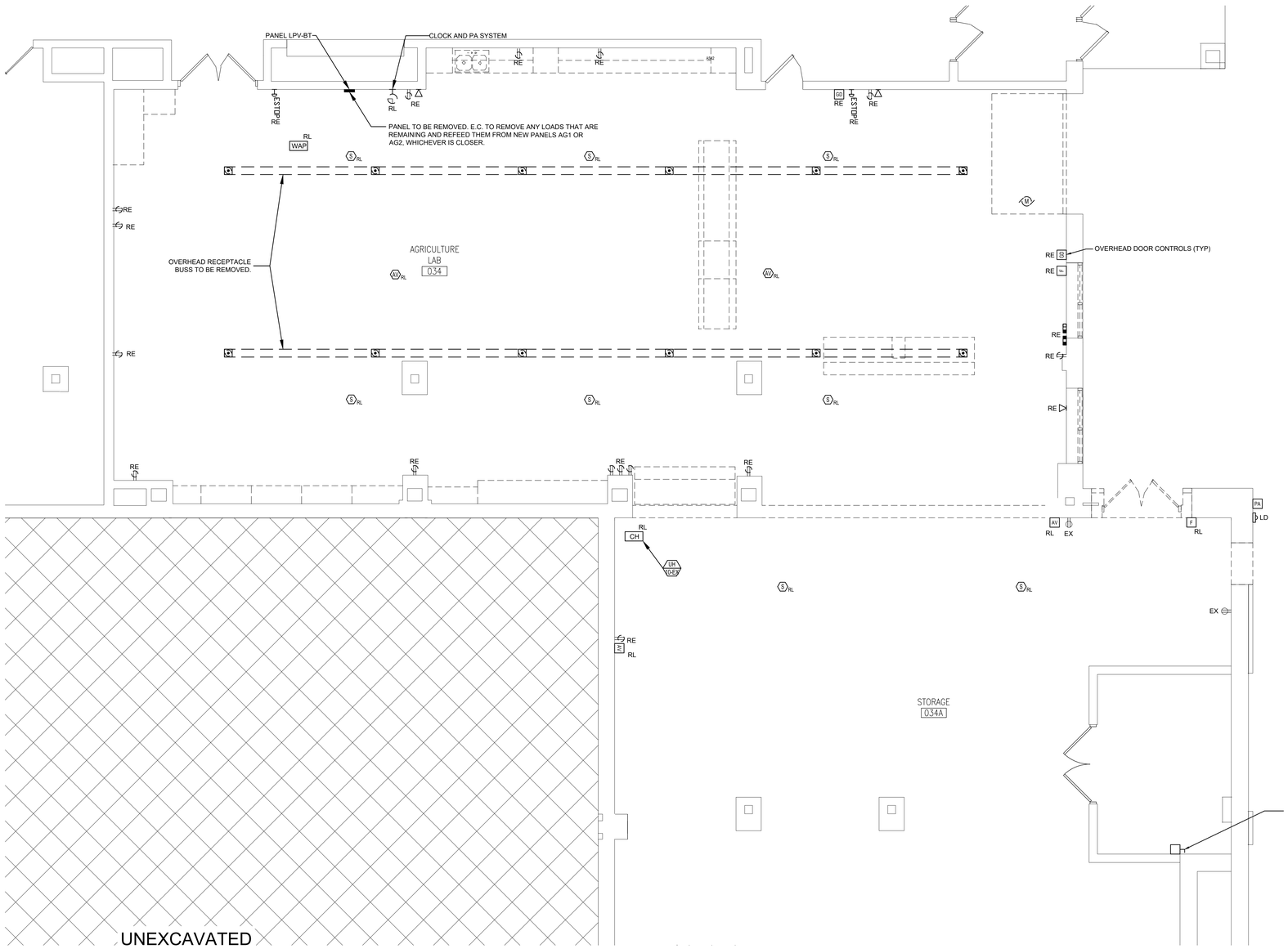
DRAWING TITLE:
ELECTRICAL DEMO
LIBRARY AND
TECHNOLOGY

DRAWN BY:	CHECKED BY:
M.L.T.	T.B.H.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

ED-100

CAD FILE: 5005-ED-100.DWG PLOT DATE: 11/10/2025



AGRICULTURE & TECHNOLOGY POWER & SYSTEMS DEMOLITION

SCALE: $\frac{1}{4}$" = 1' - 0"

DEMOLITION KEY:

(RL) - RELOCATE
(RE) - REMOVE
(EX) - EXISTING TO REMAIN

GENERAL DEMOLITON NOTES:

1. THE INTENT OF THIS DEMOLITION DRAWING IS TO GIVE THE E.C AN OVERALL SCOPE OF WORK REQUIRED TO COMPLETE THIS PROJECT.
2. IT IS ALSO THE INTENT OF THIS DRAWING TO PROVIDE A COMPLETE CLEAN SPACE IN THE AREAS DESIGNATED PRIOR TO CONSTRUCTION. ALL DEVICES SHOWN LIGHT AND DASHED ARE EXISTING TO BE REMOVED.
3. ANY ASSOCIATED CONDUIT AND WIRING SHALL BE REMOVED BACK TO SOURCE, UNLESS OTHERWISE NOTED.
4. THE E.C. SHALL REMOVE ALL DEVICES AS NOTED ABOVE, HOWEVER ALL CHANGES CANNOT BE DETAILED COMPLETELY ON THE DRAWINGS, SOME REMOVALS AND RELOCATIONS OF EXISTING ELECTRIC WORK WILL BE NECESSARY FOR SATISFACTORY PERFORMANCE OF THIS AND OTHER TRADES.
5. THE E.C. IS CAUTIONED THAT WHEN PERFORMING DEMOLITION WORK CIRCUITRY SERVING AREAS OF THE BUILDING OUTSIDE THE WORK AREA MUST REMAIN IN OPERATION. THE E.C. IS RESPONSIBLE, AT HIS OWN EXPENSE, TO REPAIR ANY SERVICES OR DAMAGES CAUSED BY HIS DEMOLITION WORK.
6. WHEN DISCONNECTING EQUIPMENT FROM EXISTING CIRCUITS, IF EQUIPMENT IS CONNECTED TO THE CIRCUIT WHICH MUST REMAIN ACTIVE, THE CIRCUIT CONTINUITY SHALL BE MAINTAINED AS REQUIRED. WIRING FROM CIRCUITS BECOMING COMPLETELY INACTIVE SHALL BE REMOVED BACK TO THE SOURCE OF SUPPLY.
7. THE OWNER RESERVES THE RIGHT TO CLAIMING ANY MATERIALS REMOVED DURING DEMOLITION THAT WILL NOT BE REUSED. THE E.C. IS RESPONSIBLE TO REMOVE FROM SITE ANY MATERIALS NOT CLAIMED BY THE OWNER.
8. ANY AND ALL ABANDONED LOW VOLTAGE CABLING SHALL BE REMOVED IN IT'S ENTIRETY WITHIN THE AREA OF DEMOLITION. LOW VOLTAGE CABLING SHALL INCLUDE BUT NOT BE LIMITED TO TELEPHONE, DATA, FIRE ALARM, ETC
9. EXISTING DEVICE LOCATIONS ARE BASED ON EXISTING DRAWINGS. THE E.C. SHALL FIELD VERIFY ACTUAL QUANTITIES AND LOCATIONS

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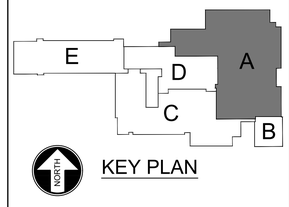

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

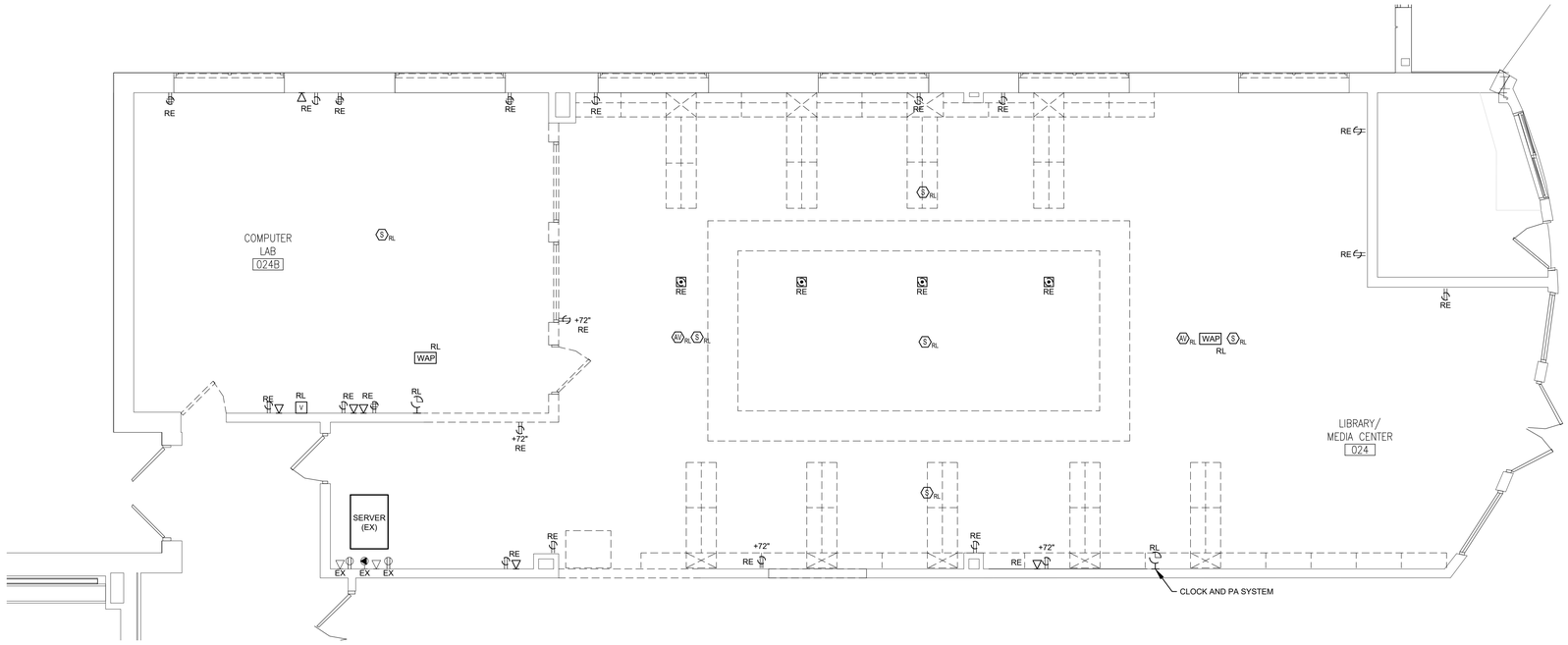
DRAWING TITLE:
ELECTRICAL DEMO
AGRICULTURE & TECHNOLOGY

DRAWN BY:	CHECKED BY:
M.L.T.	T.B.H.
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

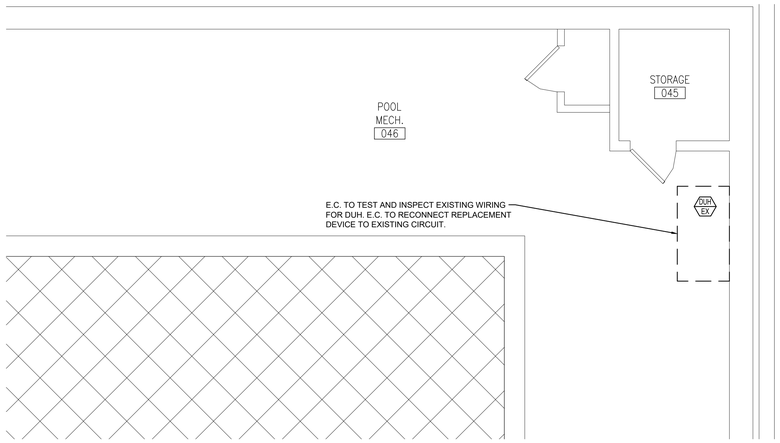
ED-200

CAD FILE: 5005-ED-200.DWG PLOT DATE: 11/10/2025



LIBRARY POWER AND SYSTEMS DEMOLITION

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



DUH DEMOLITION

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

GENERAL DEMOLITON NOTES:

1. THE INTENT OF THIS DEMOLITION DRAWING IS TO GIVE THE E.C AN OVERALL SCOPE OF WORK REQUIRED TO COMPLETE THIS PROJECT.
2. IT IS ALSO THE INTENT OF THIS DRAWING TO PROVIDE A COMPLETE CLEAN SPACE IN THE AREAS DESIGNATED PRIOR TO CONSTRUCTION. ALL DEVICES SHOWN LIGHT AND DASHED ARE EXISTING TO BE REMOVED.
3. ANY ASSOCIATED CONDUIT AND WIRING SHALL BE REMOVED BACK TO SOURCE, UNLESS OTHERWISE NOTED.
4. THE E.C. SHALL REMOVE ALL DEVICES AS NOTED ABOVE, HOWEVER ALL CHANGES CANNOT BE DETAILED COMPLETELY ON THE DRAWINGS, SOME REMOVALS AND RELOCATIONS OF EXISTING ELECTRIC WORK WILL BE NECESSARY FOR SATISFACTORY PERFORMANCE OF THIS AND OTHER TRADES.
5. THE E.C. IS CAUTIONED THAT WHEN PERFORMING DEMOLITION WORK CIRCUITRY SERVING AREAS OF THE BUILDING OUTSIDE THE WORK AREA MUST REMAIN IN OPERATION. THE E.C. IS RESPONSIBLE, AT HIS OWN EXPENSE, TO REPAIR ANY SERVICES OR DAMAGES CAUSED BY HIS DEMOLITION WORK.
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7. THE OWNER RESERVES THE RIGHT TO CLAIMING ANY MATERIALS REMOVED DURING DEMOLITION THAT WILL NOT BE REUSED. THE E.C. IS RESPONSIBLE TO REMOVE FROM SITE ANY MATERIALS NOT CLAIMED BY THE OWNER.
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9. EXISTING DEVICE LOCATIONS ARE BASED ON EXISTING DRAWINGS. THE E.C. SHALL FIELD VERIFY ACTUAL QUANTITIES AND LOCATIONS

DEMOLITION KEY:

(RL) - RELOCATE
(RE) - REMOVE
(EX) - EXISTING TO REMAIN

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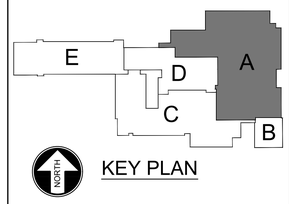

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PROJECT TITLE:

Afton Central School District
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2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:
ELECTRICAL DEMO LIBRARY AND POOL MECH RM.

DRAWN BY:	CHECKED BY:
M.L.T.	T.B.H.
DATE:	PROJECT NO:
11/10/2025	2025-005

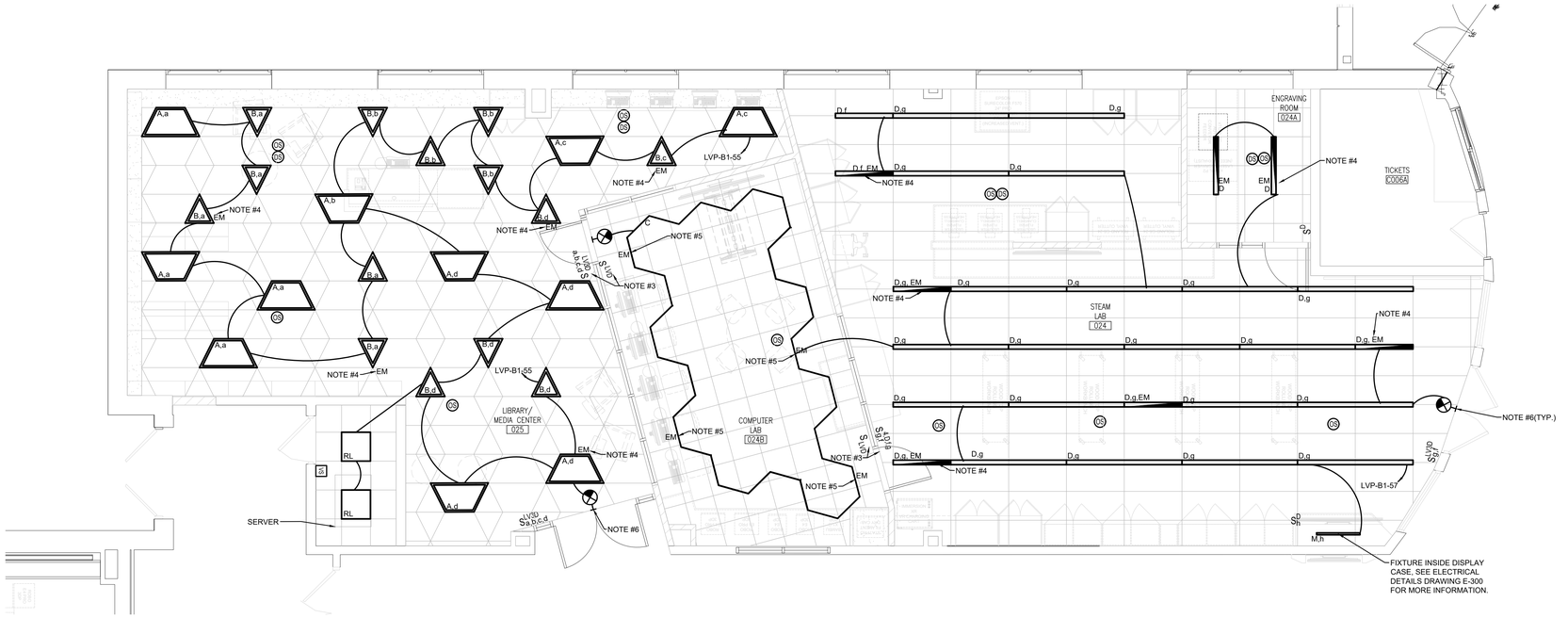
DRAWING NO:

ED-201

CAD FILE: 5005-ED-200.DWG PLOT DATE: 11/10/2025

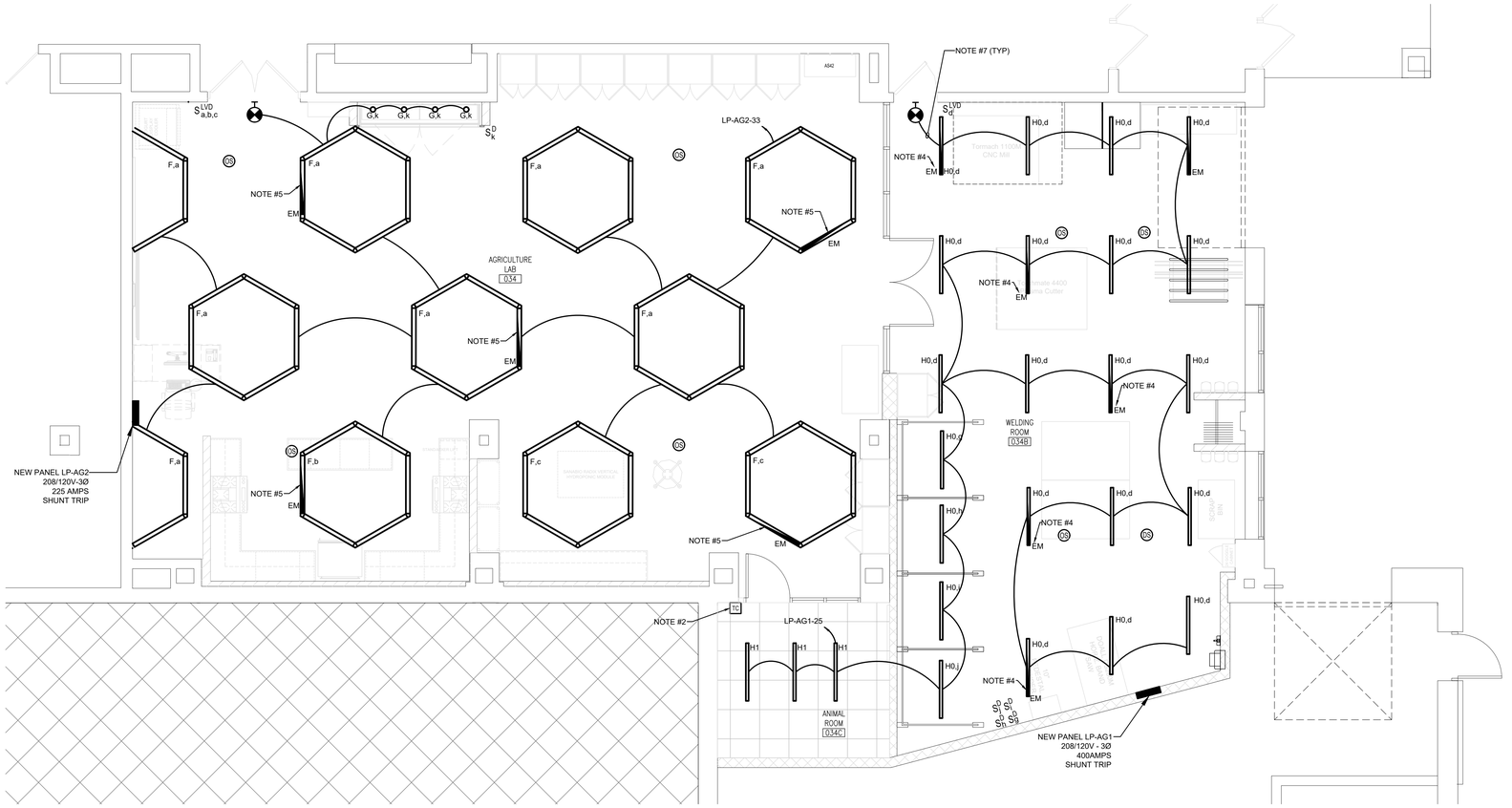
NOTES:

1. ALL SPACES ARE TO RECEIVE OCCUPANCY SENSORS WITH MANUAL OVERRIDE, DIMMING CONTROLS AND DAYLIGHT HARVESTING. U.O.N.
2. SPACE TO RECEIVE A PROGRAMMABLE TIMING DEVICE TO BE SET BY INSTRUCTOR ALONG WITH MANUAL OVERRIDE.
3. SWITCH TO BE MOUNTED AT 30" UNDERNEATH WINDOW.
4. FIXTURE TO INCLUDE ELCU AND BATTERY BACKUP FOR EGRESS LIGHTING.
5. SEGMENT OF FIXTURE TO BE EMERGENCY BATTERY BACKUP.
6. EMERGENCY EXIT SIGNS TO BE TIED TO CIRCUIT AHEAD OF SWITCHING.



MEDIA CENTER LIGHTING PLAN

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



AGRICULTURE AND TECHNOLOGY ROOM LIGHTING PLAN

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

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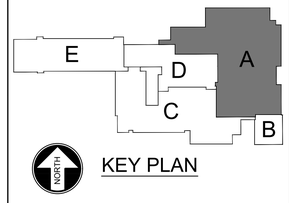

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

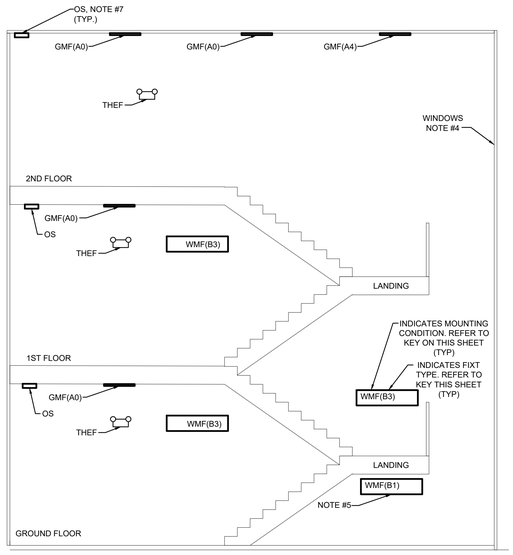
LIGHTING RENO
MEDIA AND
TECHNOLOGY

DRAWN BY:	CHECKED BY:
MLT / TBH	LKN
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

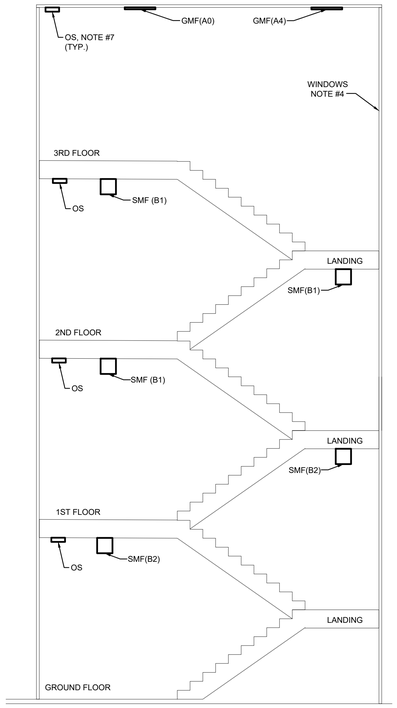
E-100

CAD FILE: 5005-E-100.DWG PLOT DATE: 11/10/2025



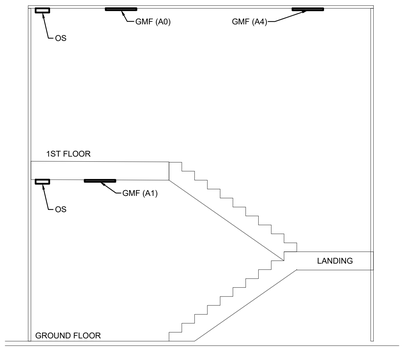
STAIR ST1 LIGHTING PLAN

SCALE: NTS



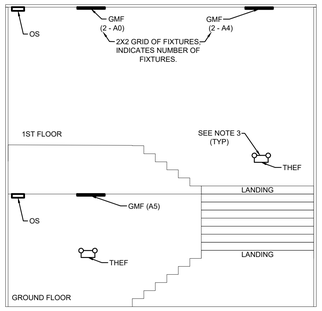
STAIR ST8 LIGHTING PLAN

SCALE: NTS



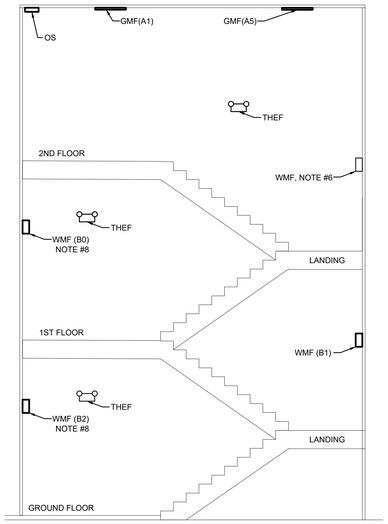
STAIR ST4 LIGHTING PLAN

SCALE: NTS



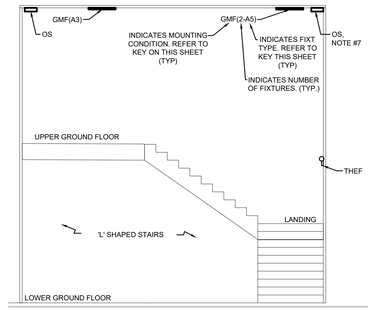
STAIR ST6 LIGHTING PLAN

SCALE: NTS



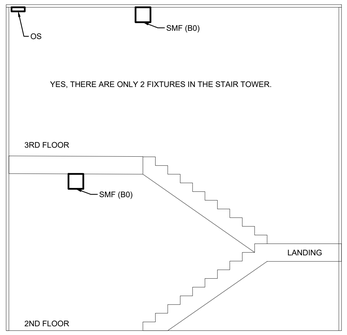
STAIR ST2 LIGHTING PLAN

SCALE: NTS



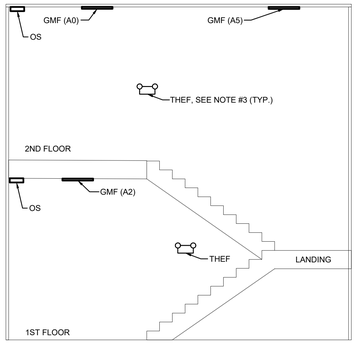
STAIR ST5 LIGHTING PLAN

SCALE: NTS



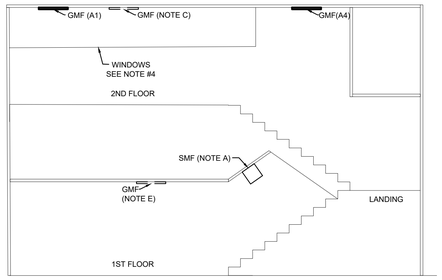
STAIR ST11 LIGHTING PLAN

SCALE: NTS



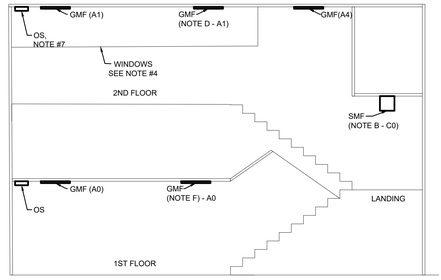
STAIR ST9 LIGHTING PLAN

SCALE: NTS



STAIR ST10 LIGHTING DEMO

SCALE: NTS



STAIR ST10 LIGHTING RENOVATION

SCALE: NTS

NOTES FOR STAIRCASE ST10:

CURRENT LIGHTING CONFIGURATION IS INADEQUATE FOR ILLUMINATION WITHIN THE STAIRWELL. SCOPE OF WORK IS THE FOLLOWING WITHIN STAIRCASE ST-10:

A. E.C. TO REMOVE CURRENT LIGHTING FIXTURE ON THE SLANTED CEILING OVER THE LOWER STAIR RISE.

B. E.C. TO CLEAN, TEST AND EXTEND WIRING TO THE LANDING CEILING. FIXTURE TO BE SURFACE MOUNTED TO LANDING CEILING. FIXTURE TO BE TYPE C.

C. E.C. TO RELOCATE CURRENT GRID MOUNTED LIGHTING FIXTURE ON THE SECOND FLOOR CEILING TO TILE OVER THE UPPER STAIR RISE.

D. E.C. TO CLEAN, TEST AND EXTEND WIRING AS REQUIRED FOR RECONNECTION OF GRID MOUNTED FIXTURE.

E. E.C. TO REMOVE CURRENT LIGHTING FIXTURE. E.C. IS TO EXTEND, CLEAN AND TEST WIRING FOR RECONNECTION.

F. FIXTURE TO MOVE 1 2X2 GRID TILE CLOSER TO STAIRS.

NOTES:
1. E.C. TO REPLACE EXISTING FIXTURES IN KIND WITH LED FIXTURES THAT CONTAIN MOTION DETECTION AND INTERNAL BATTERY BACKUP. FIXTURES MUST DIM TO 50% WHEN PERSONS ARE NOT WITHIN STAIRCASE, AND FULLY ILLUMINATE WHEN A PERSON ENTERS THROUGH STAIRCASE DOORS. FIXTURES TO HAVE LABEL VISIBLE FROM GROUND INDICATING THEY CONTAIN INTERNAL SENSORS AND BATTERIES.

2. E.C. TO REUSE EXISTING CIRCUIT AND WIRING. E.C. SHALL INSPECT AND TEST THAT WIRING IS ADEQUATE FOR RECONNECTION.

3. E.C. IS TO REMOVE EXISTING TWIN HEAD EMERGENCY FIXTURES AND RETURN TO OWNER, NEW FIXTURES ARE TO HAVE INTEGRATED EMERGENCY BATTERY. REMOVE WIRING BACK TO SOURCE, KEEPING CONTINUITY TO THE REST OF THE CIRCUIT. E.C. TO PUT A BLANK COVER ON JBOX.

4. STAIRCASE HAS WINDOWS, FIXTURE TO INCLUDE DAYLIGHT SENSING ALONG WITH MOTION DETECTION WITH AUTOMATIC DIMMING CAPABILITY AND INTERNAL BATTERY BACKUP.

5. E.C. TO ADD FIXTURE UNDER LANDING. FIXTURE TO BE CONNECTED TO EXISTING CIRCUIT WHICH SERVES SPACE. FIXTURE TO BE MOUNTED 6.5 FT A.F.F. ON THE NORTH WALL OF THE STAIRCASE.

6. E.C. TO REMOVE FIXTURE AND WIRING TO EXISTING JBOX. REMOVE WIRING FROM CONDUIT BACK TO NEAREST J-BOX, E.C TO KEEP CONTINUITY TO REMAINING PORTION OF CIRCUIT.

7. NEW OCCUPANCY SENSOR TO BE ADDED TO FIRST TILE INSIDE THE DOOR FRAME OF THE STAIR TOWER.

8. LIGHTING FIXTURE IS ABOVE DOOR FRAME, DO NOT ADD OCCUPANCY SENSOR INSIDE DOOR FRAME.

GENERAL NOTE:
SEE COMPOSITE PLANS E-400 & E-401 FOR STAIR LOCATIONS.

KEY:
SMF - SURFACE MOUNTED FIXTURE
WMF- WALL MOUNTED FIXTURE
GMF - GRID MOUNTED FIXTURE
THEF - TWIN HEAD EMERGENCY FIXTURE TO BE RETURNED TO OWNER, SEE NOTE 3
OS - OCCUPANCY SENSOR

STAIRCASE LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	LAMPS	VOLTS	DESCRIPTION
A0	COLUMBIA VSY24	VSY24-BLANK-40-VWHE-G ED-U-ELL14H2-NXWSM	LED 3200 LUMENS 25W	120/277V	2x4 GRID MOUNTED FIXTURE. INTEGRATED DAYLIGHT SENSOR, OCCUPANCY SENSOR AND EMERGENCY BATTERY BACKUP. 80CRI, 4000K COLOR TEMPERATURE. 60,000 HOUR LAMP LIFE AT 80CRI.
A1	COLUMBIA VSY24	VSY24-BLANK-40-MWHE-G ED-U-ELL14H2-NXWSM	LED 3800 LUMENS 29W	120/277V	2x4 GRID MOUNTED FIXTURE. INTEGRATED DAYLIGHT SENSOR, OCCUPANCY SENSOR AND EMERGENCY BATTERY BACKUP. 80CRI, 4000K COLOR TEMPERATURE. 60,000 HOUR LAMP LIFE AT 80CRI.
A2	COLUMBIA VSY24	VSY24-BLANK-40-LWHE-G ED-U-ELL14H2-NXWSM	LED 4300 LUMENS 33W	120/277V	2x4 GRID MOUNTED FIXTURE. INTEGRATED DAYLIGHT SENSOR, OCCUPANCY SENSOR AND EMERGENCY BATTERY BACKUP. 80CRI, 4000K COLOR TEMPERATURE. 60,000 HOUR LAMP LIFE AT 80CRI.
A3	COLUMBIA VSY24	VSY24-BLANK-40-MLHE-G ED-U-ELL14H2-NXWSM	LED 4800 LUMENS 37W	120/277V	2x4 GRID MOUNTED FIXTURE. INTEGRATED DAYLIGHT SENSOR, OCCUPANCY SENSOR AND EMERGENCY BATTERY BACKUP. 80CRI, 4000K COLOR TEMPERATURE. 60,000 HOUR LAMP LIFE AT 80CRI.
A4	COLUMBIA VSY24	VSY24-BLANK-40-VLHE-G ED-U-ELL14H2-NXWSM	LED 7300 LUMENS 33W	120/277V	2x4 GRID MOUNTED FIXTURE. INTEGRATED DAYLIGHT SENSOR, OCCUPANCY SENSOR AND EMERGENCY BATTERY BACKUP. 80CRI, 4000K COLOR TEMPERATURE. 60,000 HOUR LAMP LIFE AT 80CRI.
A5	COLUMBIA VSY24	VSY24-BLANK-40-XLHE-G ED-U-ELL14H2-NXWSM	LED 8100 LUMENS 33W	120/277V	2x4 GRID MOUNTED FIXTURE. INTEGRATED DAYLIGHT SENSOR, OCCUPANCY SENSOR AND EMERGENCY BATTERY BACKUP. 80CRI, 4000K COLOR TEMPERATURE. 60,000 HOUR LAMP LIFE AT 80CRI.
B0	COLUMBIA ESCALATE	ESL8-40-VW-FPW-EDU	LED 5500 LUMENS 47W	120/277V	3.4"X8' LINEAR SURFACE/WALL MOUNT STRAIGHT RUN FIXTURE. INTEGRADED DAYLIGHT SENSOR, OCCUPANCY SENSOR AND EMERGENCY BATTERY BACKUP. 80CRI, 4000K COLOR TEMPERATURE. 60,000 HOUR LAMP LIFE AT 80CRI.
B1	COLUMBIA ESCALATE	ESL8-40-VW-FAW-EDU	LED 6500 LUMENS 47W	120/277V	3.4"X8' LINEAR SURFACE/WALL MOUNT STRAIGHT RUN FIXTURE. INTEGRADED DAYLIGHT SENSOR, OCCUPANCY SENSOR AND EMERGENCY BATTERY BACKUP. 80CRI, 4000K COLOR TEMPERATURE. 60,000 HOUR LAMP LIFE AT 80CRI.
B2	COLUMBIA ESCALATE	ESL8-40-MW-FAW-EDU	LED 7100 LUMENS 53W	120/277V	3.4"X8' LINEAR SURFACE/WALL MOUNT STRAIGHT RUN FIXTURE. INTEGRADED DAYLIGHT SENSOR, OCCUPANCY SENSOR AND EMERGENCY BATTERY BACKUP. 80CRI, 4000K COLOR TEMPERATURE. 60,000 HOUR LAMP LIFE AT 80CRI.
B3	COLUMBIA ESCALATE	ESL8-40-ML-FPW-EDU	LED 8100 LUMENS 63W	120/277V	3.4"X8' LINEAR SURFACE/WALL MOUNT STRAIGHT RUN FIXTURE. INTEGRADED DAYLIGHT SENSOR, OCCUPANCY SENSOR AND EMERGENCY BATTERY BACKUP. 80CRI, 4000K COLOR TEMPERATURE. 60,000 HOUR LAMP LIFE AT 80CRI.
C0	COLUMBIA ESCALATE	ESL4-40-VW-FPW-EDU	LED 3200 LUMENS 26W	120/277V	3.4"X4' LINEAR SURFACE/WALL MOUNT STRAIGHT RUN FIXTURE. INTEGRADED DAYLIGHT SENSOR, OCCUPANCY SENSOR AND EMERGENCY BATTERY BACKUP. 80CRI, 4000K COLOR TEMPERATURE. 60,000 HOUR LAMP LIFE AT 80CRI.

NOTES:
FOR GENERAL LIGHTING FIXTURES REFER TO DRAWING E-000.

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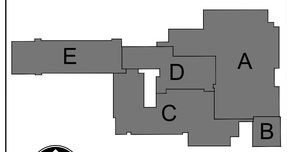

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

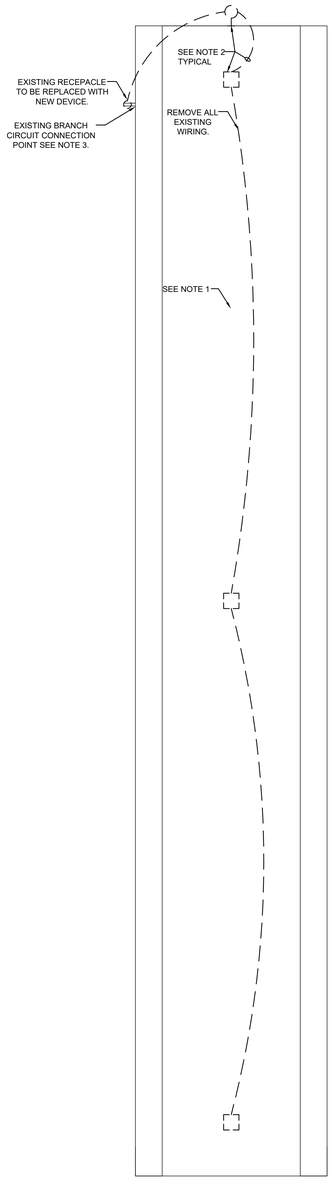
DRAWING TITLE:
LIGHTING PLAN
STAIRCASES

DRAWN BY:	CHECKED BY:
MLT / TBH	LKN
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

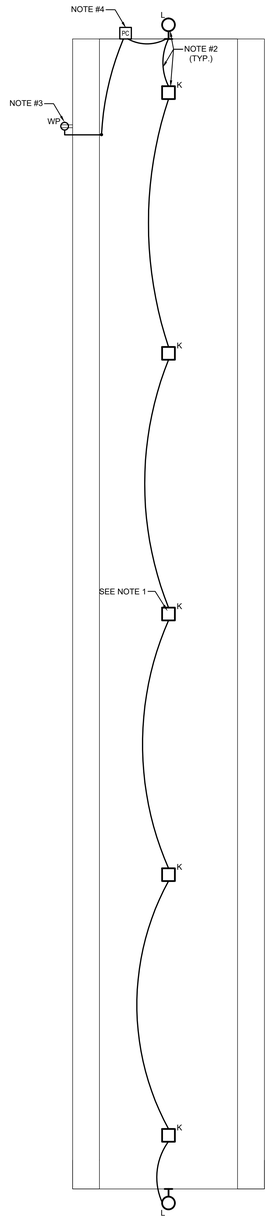
E-101

CAD FILE: 5005-E-101.DWG PLOT DATE: 11/10/2025



PEDESTRIAN FOOTBRIDGE LIGHTING DEMOLITION

SCALE: NTS



PEDESTRIAN FOOTBRIDGE LIGHTING RENO

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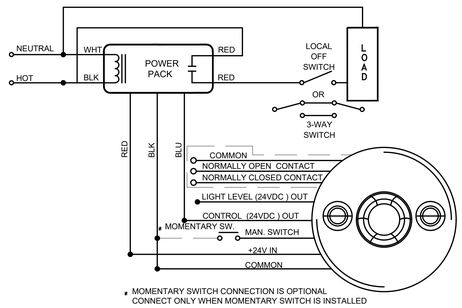
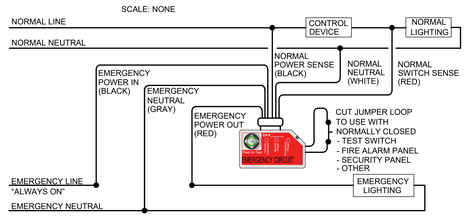


* MOMENTARY SWITCH CONNECTION IS OPTIONAL
CONNECT ONLY WHEN MOMENTARY SWITCH IS INSTALLED

SINGLE OCCUPANCY SENSOR

SCALE: NONE

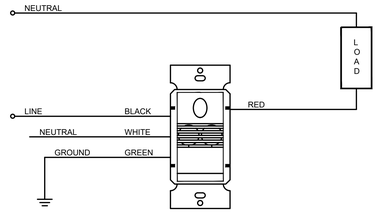
SCALE: NONE



WHEN WIRED AS A CONTROL DEVICE, THE ELCU-200 RECEIVES A SWITCHING SIGNAL FROM THE OUTPUT OF THE CONTROL DEVICE (RELAY, SWITCH, POWER PACK, ETC.)

EMERGENCY LIGHTS CONTROL SCHEMATIC

SCALE: NONE



SINGLE WALL MOUNTED OCCUPANCY SENSOR

SCALE: NONE

NOTES:

1. E.C. TO COORDINATE WITH G.C. FOR REQUIRED REMOVAL OF COVERED BRIDGE CEILING WOOD PANELS TO ALLOW FOR REMOVAL OF EXISTING WIRING AND INSTALLATION OF NEW LIGHT FIXTURES AND WIRING TO ACCOMMODATE THE NEW LAYOUT.
2. E.C. TO REMOVE EXISTING LIGHT FIXTURES. REMOVE EXISTING WIRING/CONDUIT BACK TO POWER SOURCE AT EXISTING MAINTENANCE RECEPTACLE MOUNTED AT SPORTS FIELD END OF THE BRIDGE.
3. E.C. SHALL REPLACE EXISTING MAINTENANCE RECEPTACLE WITH NEW GCFI DEVICE AND PROVIDE NEW IN-USE COVER. THIS DEVICE BOX IS THE EXISTING BRANCH CIRCUIT CONNECTION POINT WHICH IS TO BE UTILIZED FOR RECONNECTION TO NEW WALKWAY BRIDGE LIGHTING FIXTURES. THE E.C. SHALL INSPECT AND TEST EXISTING WIRING FOR ELECTRICAL INTEGRITY. RUN NEW WIRING FROM RECEPTACLE TO ABOVE WOODEN CEILING IN RIGID GALVANIZED CONDUIT. CONVERT TO MC CABLE WHERE CONCEALED ABOVE CEILING PANELS.
4. E.C. SHALL PROVIDE NEW DUSK TO DAWN PHOTOCELL SENSOR TO CONTROL PEDESTRIAN FOOTBRIDGE FIXTURES.
5. THE E.C. SHALL PROVIDE NEW FLUSH MOUNTED LIGHT FIXTURES IN EXISTING PLYWOOD CEILING PANELS. PROVIDE NEW BRANCH CIRCUIT WIRING. NEW WIRING CONCEALED ABOVE EXISTING PLYWOOD CEILING PANELS SHALL TYPE MC CABLE.

TYPICAL CLASSROOM ROOM CONTROLLER DETAIL

SCALE: NOT TO SCALE

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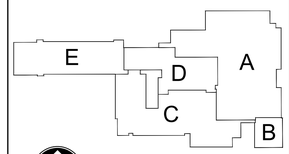
REVISION NO:

PEDESTRIAN FOOTBRIDGE



KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

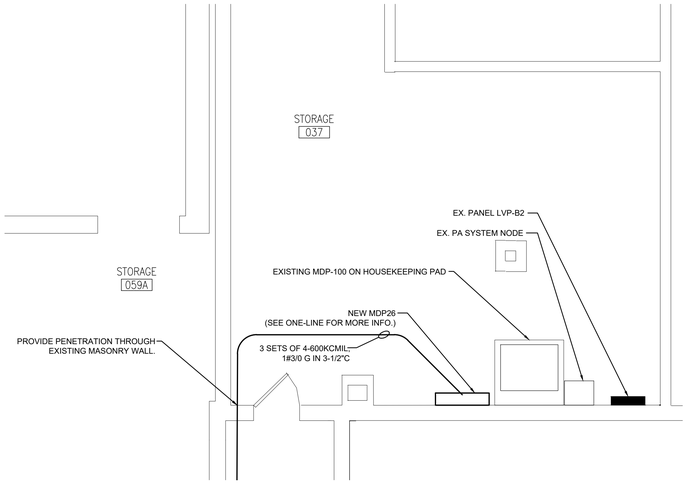
LIGHTING PLAN
PEDESTRIAN
BRIDGE & DETAILS

DRAWN BY:	CHECKED BY:
MLT / TBH	LKN
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

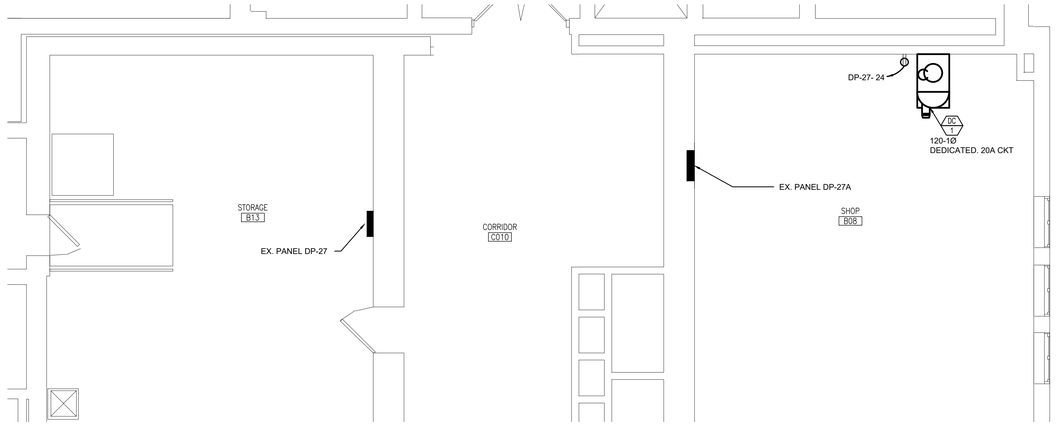
E-102

CAD FILE: 5005-E-102.DWG PLOT DATE: 11/10/2025



STOR. 138 NEW WORK POWER PLAN

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



DUST COLLECTOR SHOP-B08

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

NOTES:

1. PANELS AG1 & AG2 ARE TO BE PROVIDED WITH SHUNT TRIP MAIN BREAKERS TO BE REMOTELY OPERATED VIA KEYED EPO (EMERGENCY POWER OFF).

2. NEW VAV BOXES TO BE TIED TO CIRCUT LP-AG2-32. E.C. TO PROVIDE THE 120V CONNECTION TO VAV BOXES. 120V/24 VAC XFMR BY M.C.

3. REMOTE OVERHEAD DOOR PUSHBUTTON STATION OPERATES OVERHEAD DOOR LOCATED IN ROOM.

4. E.C. TO FIELD VERIFY ALL EQUIPMENT CONNECTIONS PRIOR TO INSTALLATION.

5. ALL DEVICE BOX AND EQUIPMENT HEIGHTS & LOCATIONS SHALL BE FIELD VERIFIED PRIOR TO ROUGH-IN.

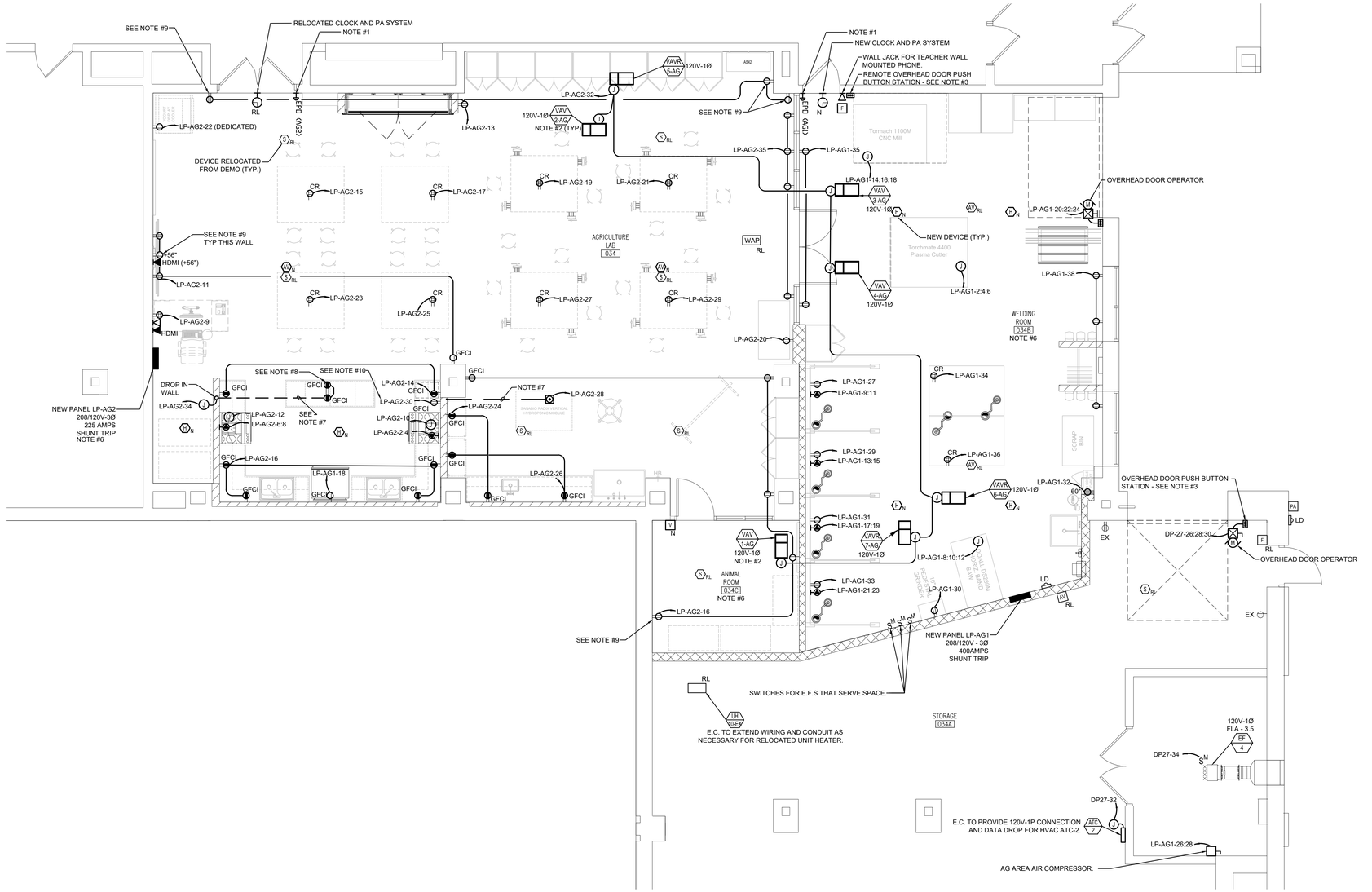
6. ALL RECEPTACLES UNDER 50AMPS TO BE GFCI PROTECTED BY BREAKER OR RECEPTACLE PER NEC ARTICLE 210.8(B).

7. E.C. TO SAWCUT FLOOR FOR (1) 3/4" CONDUIT FOR CIRCUIT. RUN THE CONDUIT UP THE NEW WALL TO JBOX WITHIN CEILING.

8. NEW BENCHTOP RECEPTACLE LEGRAND BENCH TOP POD PEDESTAL MODEL LBP2. 2-GANG BOX.

9. E.C. TO PROVIDE SURFACE MOUNTED ALL CONDUIT AND DEVICE BOXES FOR ALL NEW ELECTRICAL & DATA EQUIPMENT INSTALLED ON EXISTING WALLS. E.C. TO PROVIDE ALTERNATE PRICE TO CUT IN NEW DEVICES AND CONDUIT AND PATCH AND REPAIR EXISTING MASONRY WALLS.

10. RECEPTACLE TO BE MOUNTED INTO COUNTER FOR STAND MIXER LIFT.



AGRICULTURE AND TECHNOLOGY ROOM POWER AND SYSTEMS PLAN

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

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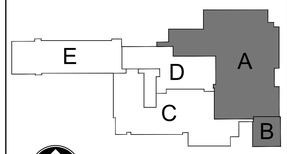

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

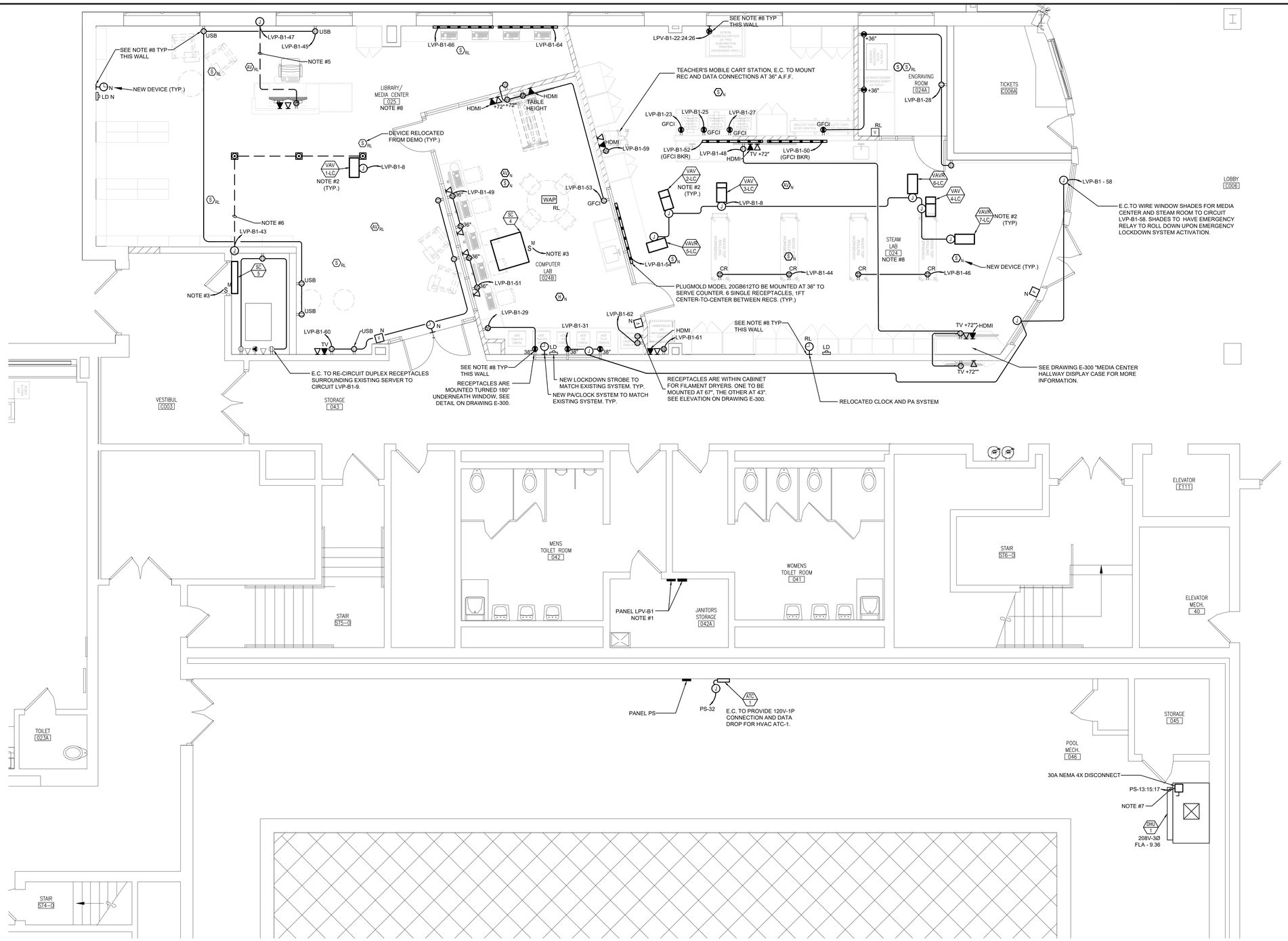
POWER & SYSTEMS RENOVATION TECHNOLOGY

DRAWN BY:	CHECKED BY:
MLT / TBH	LKN
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

E-200

CAD FILE: 5005-E-200.DWG PLOT DATE: 11/10/2025



MEDIA CENTER POWER AND SYSTEMS PLAN

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

NOTES:

1. ADD A SECOND SECTION TO EXISTING PANEL LVP-B1. SECOND SECTION TO BE FED BY 100A BREAKER IN POLES 13/15/17.

2. NEW VAV BOXES TO BE TIED TO CIRCUIT LVP-B1-8. E.C. TO PROVIDE THE 120V CONNECTION TO VAV BOXES. 120V/24 VAC XFMR BY M.C.

3. THE E.C. SHALL EXTEND SC UNIT FAN WIRING UP TO ASSOCIATED CU (CONDENSING UNIT LOCATED ON THE ROOF). REFER TO ELEC. ROOF PLAN ON DRAWING E-203.

4. ALL DEVICE BOX AND EQUIPMENT HEIGHTS & LOCATIONS SHALL BE FIELD VERIFIED PRIOR TO ROUGH-IN.

5. E.C. TO SAWCUT FLOOR INSTALL 3/4" CONDUIT, (1) FOR POWER, (1) FOR DATA IN GRAVEL BED BELOW SLAB, REFINISH SLAB FOR MATCH. SEE ELEVATION "LIBRARIAN DESK" ON E-300.

6. E.C. TO SAWCUT FLOOR FOR (1) 3/4" CONDUIT FOR POWER.

7.E.C. TO CLEAN, TEST, AND INSPECT WIRING AND BREAKER FOR ADEQUACY IN PREPARATION FOR REPLACEMENT DEVICE.

8. E.C. TO PROVIDE SURFACE MOUNTED ALL CONDUIT AND DEVICE BOXES FOR ALL NEW ELECTRICAL & DATA EQUIPMENT INSTALLED ON EXISTING WALLS. E.C. TO PROVIDE ALTERNATE PRICE TO CUT IN NEW DEVICES AND CONDUIT AND PATCH AND REPAIR EXISTING MASONRY WALLS.

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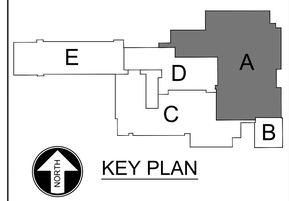

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

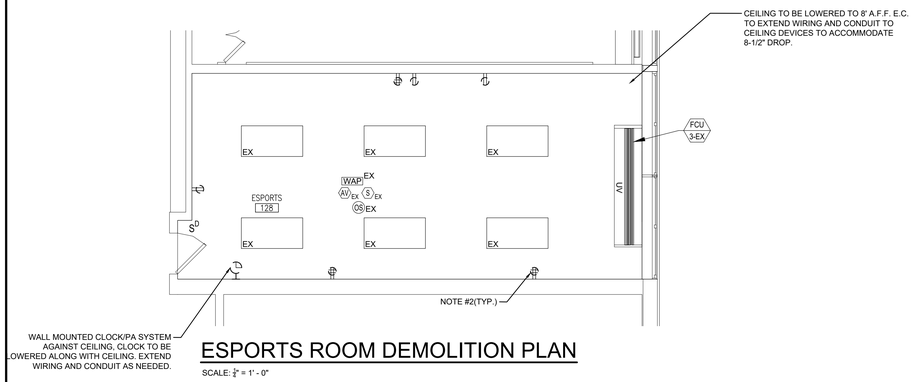
POWER & SYSTEMS RENOVATION MEDIA CENTER

DRAWN BY:	CHECKED BY:
MLT / TBH	LKN
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

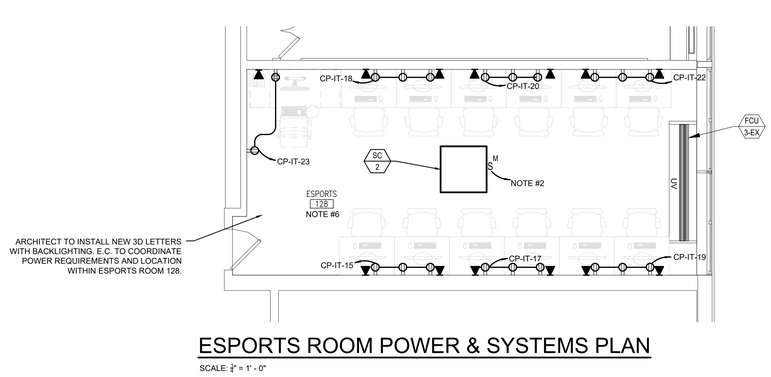
E-201

CAD FILE: 5005-E-201.DWG PLOT DATE: 11/10/2025



ESPORTS ROOM DEMOLITION PLAN

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



ESPORTS ROOM POWER & SYSTEMS PLAN

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

DEMOLITION NOTES:

1. EXISTING LIGHTING, CLOCK/PA SYSTEM, FIRE ALARM DEVICES, OCCUPANCY SENSOR, AND WAP ARE EXISTING TO REMAIN. CEILING IN SPACES TO BE LOWERED, E.C. TO EXTEND WIRING AND CONDUIT TO ACCOMMODATE LOWER CEILING.
2. E.C. TO REMOVE RECEPTACLES, WALL RACEWAY, WIRING AND CONDUIT BACK TO SOURCE, KEEPING CONTINUITY TO ANY OTHER DEVICE ON CIRCUIT.

FLOOR PLAN NOTES:

1.ALL DEVICE BOX AND EQUIPMENT HEIGHTS & LOCATIONS SHALL BE FIELD VERIFIED PRIOR TO ROUGH-IN.

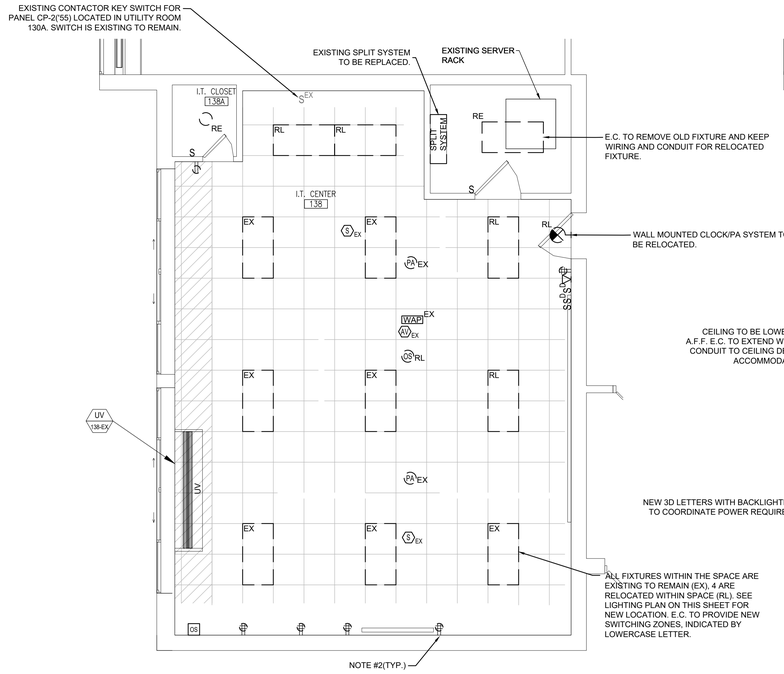
2.THE E.C. SHALL EXTEND SC UNIT FAN WIRING UP TO ASSICIATED CU (CONDENSING UNIT LOCATED ON THE ROOF. REFER TO ELEC. ROOF PLAN ON DRAWING E-203.

3. NUMBER INDICATES NUMBER OF DATA DROPS SERVING DESK.

4. PLUGMOLD MODEL 20GB612TO TO BE MOUNTED AT 36" TO SERVE COUNTER. EACH RUN CONTAINS SINGLE REC. 1FT CENTER-TO-CENTER BETWEEN RECS. (TYP.)

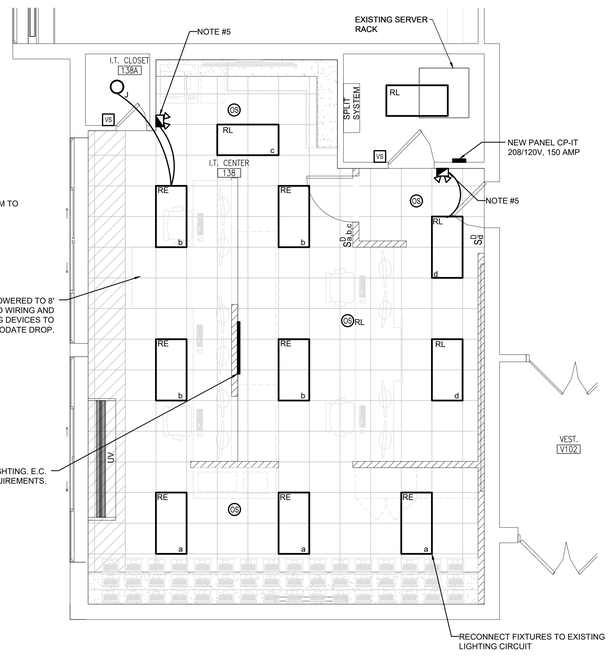
5. EMERGENCY TWIN HEAD FIXTURE TO BE TIED TO CIRCUIT AHEAD OF SWITCHING.

6. E.C. TO PROVIDE SURFACE MOUNTED ALL CONDUIT AND DEVICE BOXES FOR ALL NEW ELECTRICAL & DATA EQUIPMENT INSTALLED ON EXISTING WALLS. E.C. TO PROVIDE ALTERNATE PRICE TO CUT IN NEW DEVICES AND CONDUIT AND PATCH AND REPAIR EXISTING MASONRY WALLS.



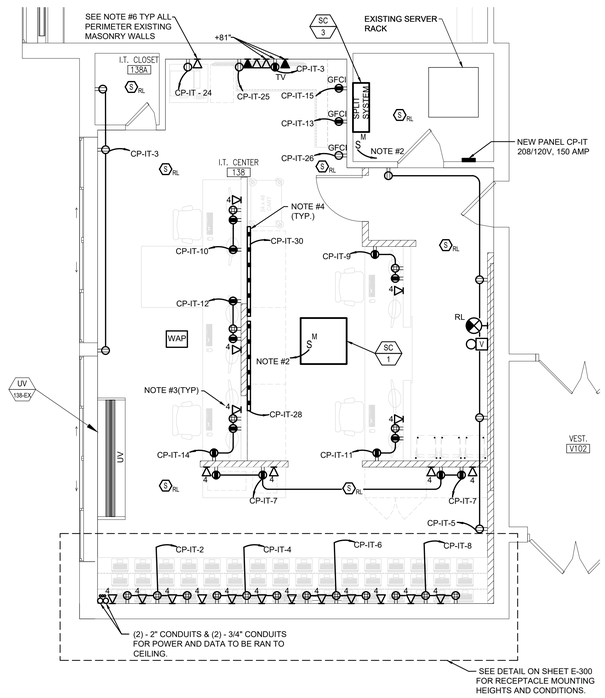
IT ROOM DEMOLITION

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



IT ROOM LIGHTING PLAN

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



IT ROOM POWER & SYSTEMS PLAN

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

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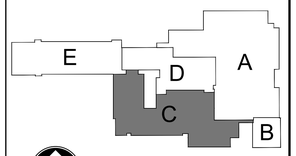

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

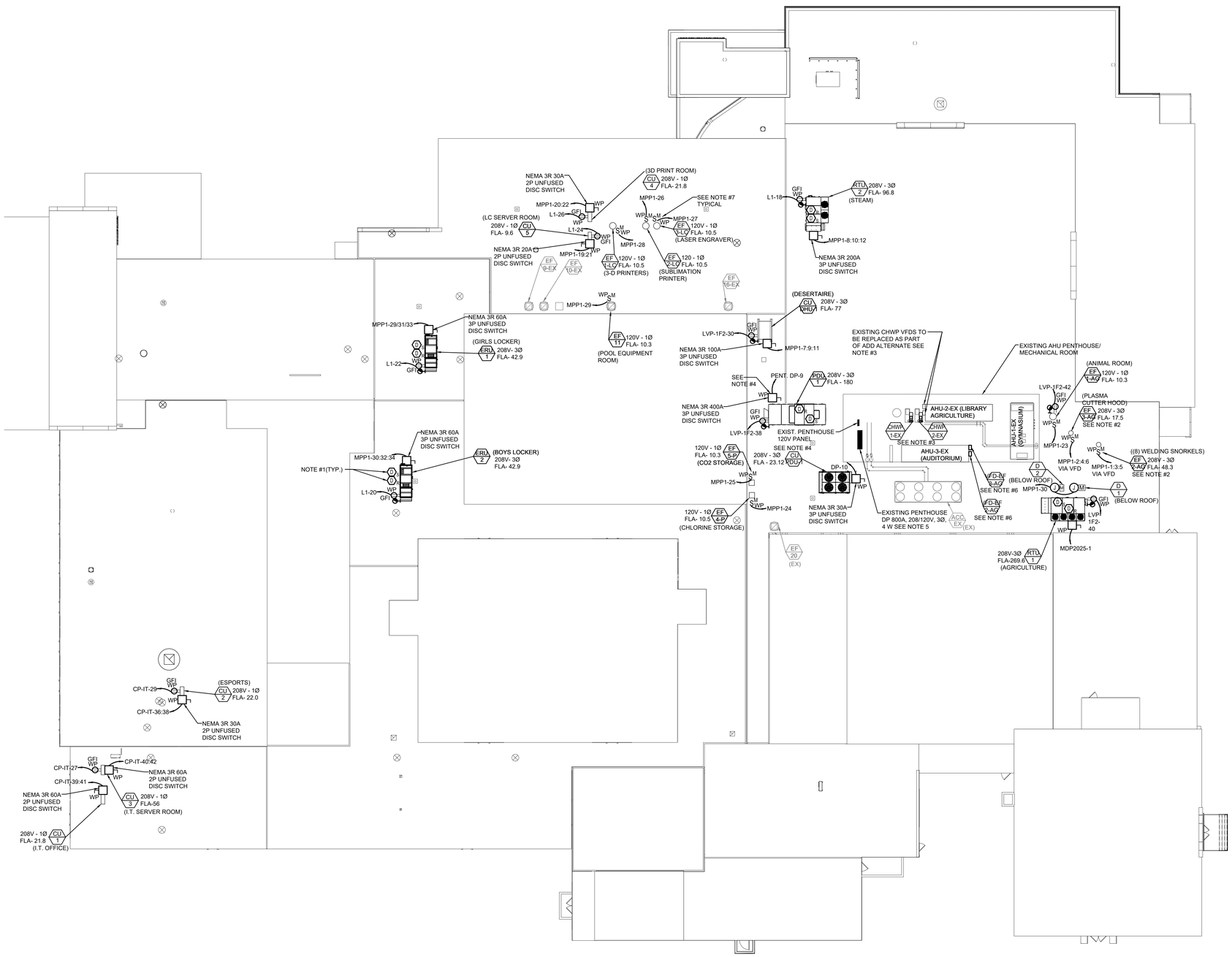
ELECTRICAL 1ST FLOOR IT & ESPORTS RELOCATION

DRAWN BY:	CHECKED BY:
MLT / TBH	LKN
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

E-202

CAD FILE: 5005-E-202.DWG PLOT DATE: 11/10/2025



ELECTRICAL ROOF PLAN

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

NOTES:

1. SUPPLY AND RETURN DUCT DETECTORS TO BE PROVIDED BY E.C. AND INSTALLED BY MANUFACTURER OF RTU.

2. FAN OVER 5000 CFM. FAN TO BE HARDWIRED TO RELAY TO SHUT DOWN UPON ACTIVATION OF FIRE ALARM.

3. **ADD ALTERNATE:** M.C. TO REPLACE EXISTING 10HP PUMPS WITH NEW 20HP PUMPS. E.C. TO REPLACE EXISTING BREAKERS AND FEEDERS BETWEEN PUMPS AND PENTHOUSE DISTRIBUTION PANEL. REFER TO ONE LINE DIAGRAM ON DRAWING E-500 FOR ADDITION INFORMATION FOR ELECTRICAL WORK REQUIRED FOR REPLACEMENT OF THESE PUMP UNITS UNDER THIS ADD ALTERNATE.

4. **ADD ALTERNATE:** POOL UNIT AND CONDENSER TO BE REPLACED. REFER TO ONE LINE DIAGRAM ON DRAWING E-500 FOR ADDITION INFORMATION FOR ELECTRICAL WORK REQUIRED FOR REPLACEMENT OF THE POOL PDU AND CU UNITS UNDER THIS ADD ALTERNATE.

5. EXISTING 800 AMP DISTRIBUTION PANEL SERVES EXISTING PENTHOUSE LOADS AS WELL AS SELECTED ROOFTOP EQUIPMENT. MODIFICATION ARE TO BE BE MADE TO ACCOMMODATE EQUIPMENT REPLACEMENTS AS INDICATED. REFER TO ONE LINE DIAGRAM ON DRAWING E-500 FOR ADDITIONAL INFORMATION.

6. THE E.C. SHALL EXTEND THE NEW BRANCH CIRCUITS FOR EXHAUST FANS EF-2AG & EF-3AG FROM SOURCE PANEL THROUGH THE VFDS INDICATED, LOCATED IN THE PENTHOUSE. THE E.C. SHALL PROVIDE ALL CONNECTIONS ON THE LINE AND LOAD SIDE OF THE VFD'S.

7. WHERE INDICATED ON THE PLANS THE E.C. SHALL PROVIDE A WEATHERPROOF MOTOR RATED SINGLE PHASE MAINTENANCE DISCONNECT SWITCH FOR ALL ROOF MOUNTED 120 VOLT EQUIPMENT.

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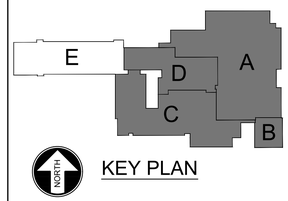

KEY PLAN

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PROJECT TITLE:

Afton Central
School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

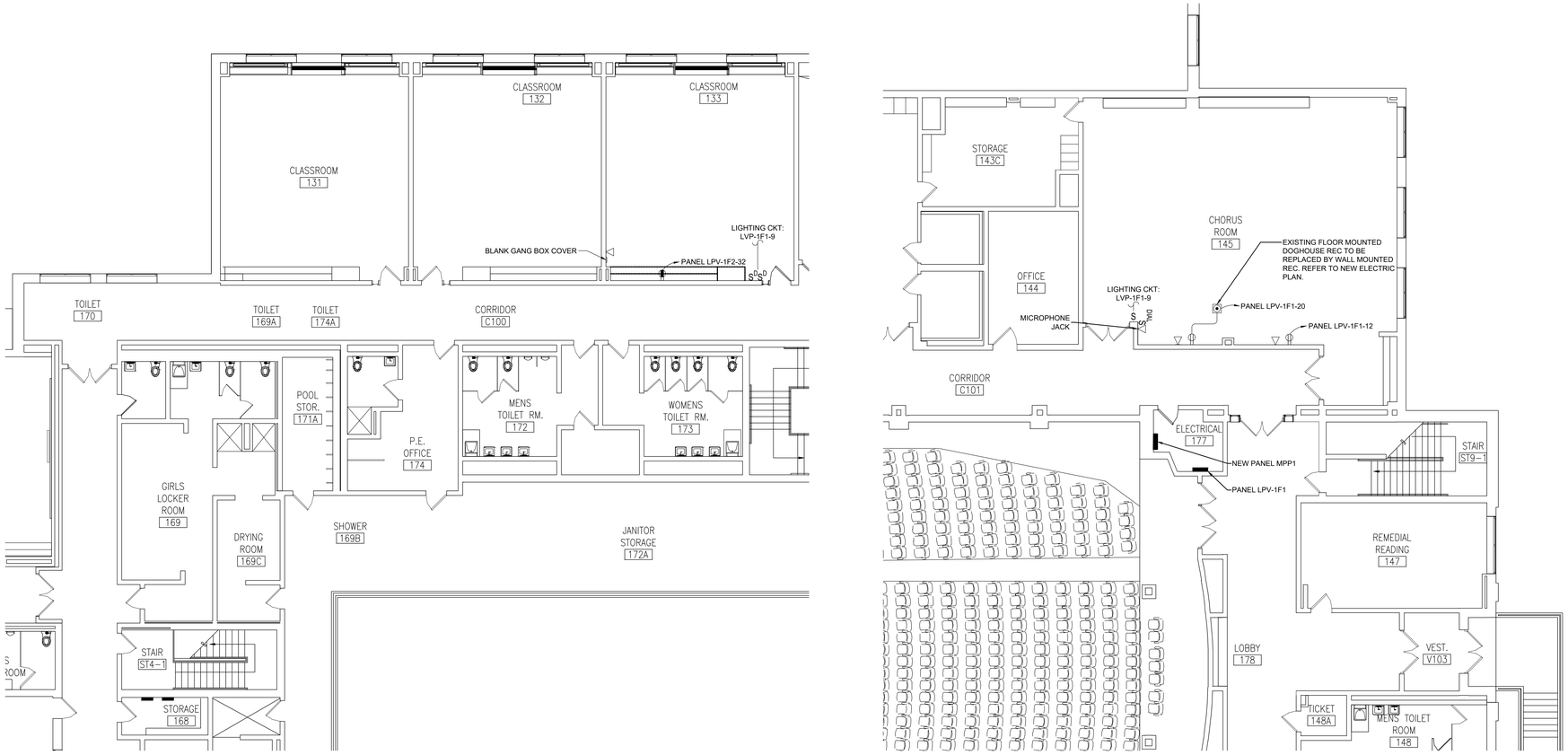
ELECTRICAL
ROOF PLAN

DRAWN BY:	CHECKED BY:
MLT / TBH	LKN
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

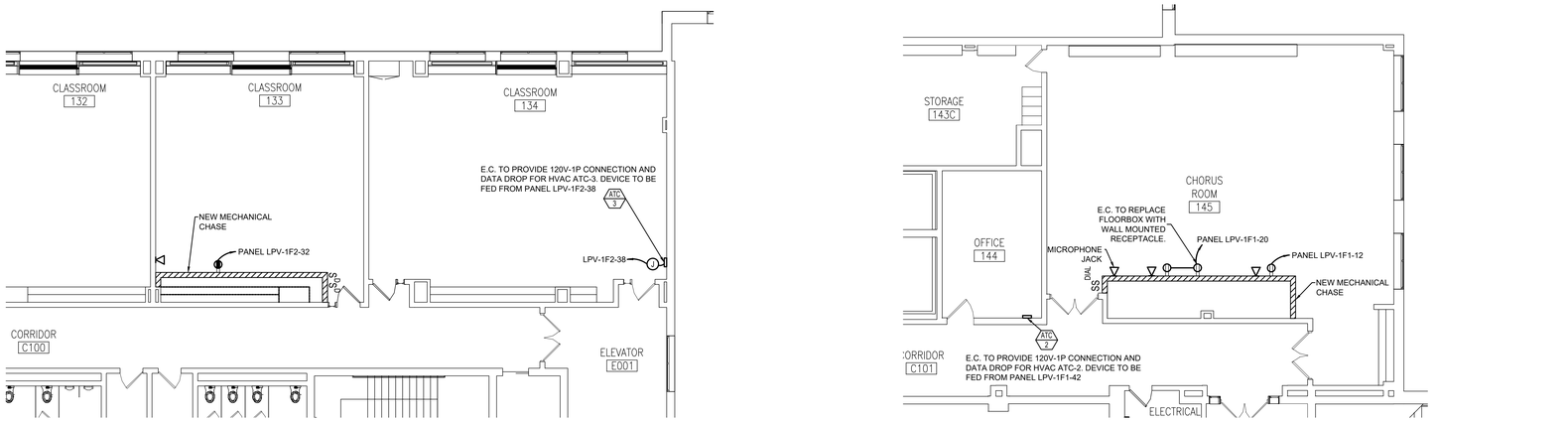
E-203

CAD FILE: 5005-E-203.DWG PLOT DATE: 11/10/2025



1ST FLOOR DEMO PARTIAL PLAN

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



1ST FLOOR RENO PARTIAL PLAN

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

NOTES:
1. SCOPE OF WORK IN THESE SPACES ARE AS FOLLOWS:

E.C. IS TO DISCONNECT CURRENT DEVICE WITHIN AREA OF NEW MECHANICAL CHASE.
E.C. IS TO TEST AND INSPECT WIRING IN PREPARATION FOR RECONNECTION.
E.C. IS TO EXTEND WIRING AND CONDUIT TO NEW LOCATION.

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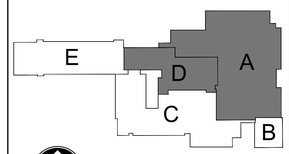

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

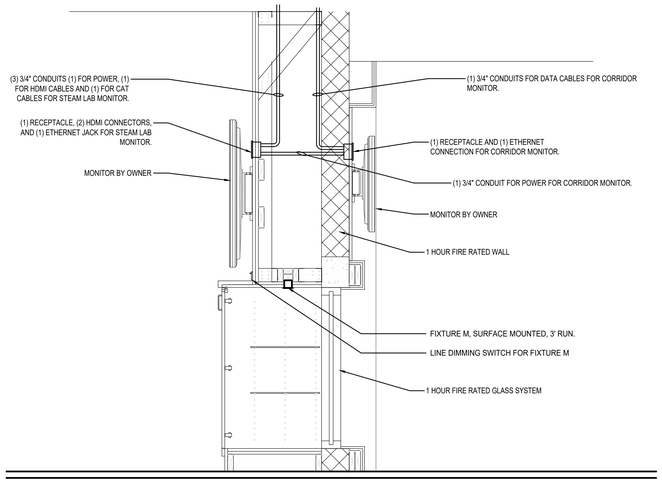
PARTIAL FIRST FLOOR ELECTRICAL RENOVATION FOR HVAC CHASES

DRAWN BY:	CHECKED BY:
MLT / TBH	LKN
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

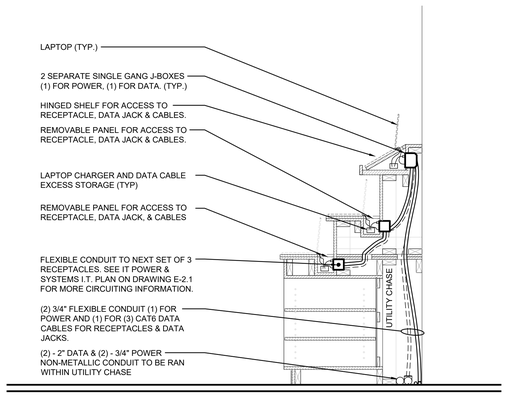
E-204

CAD FILE: 5005-E-204.DWG PLOT DATE: 11/10/2025



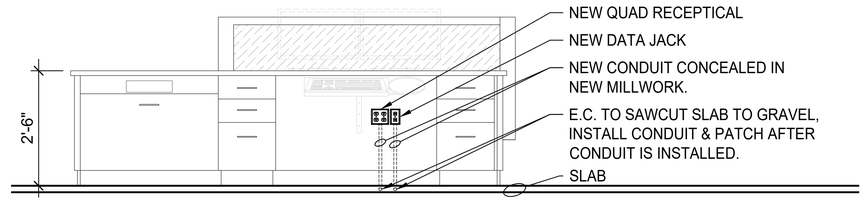
MEDIA CENTER HALLWAY DISPLAY CASE

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



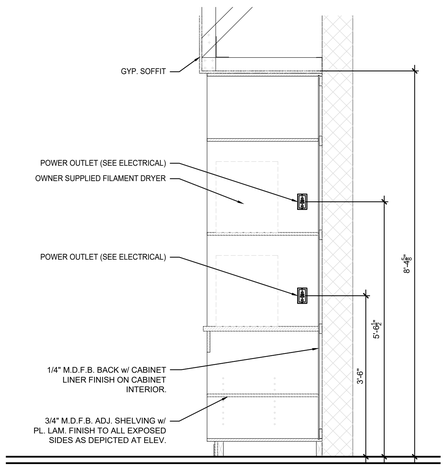
IT WORKBENCH SECTION

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



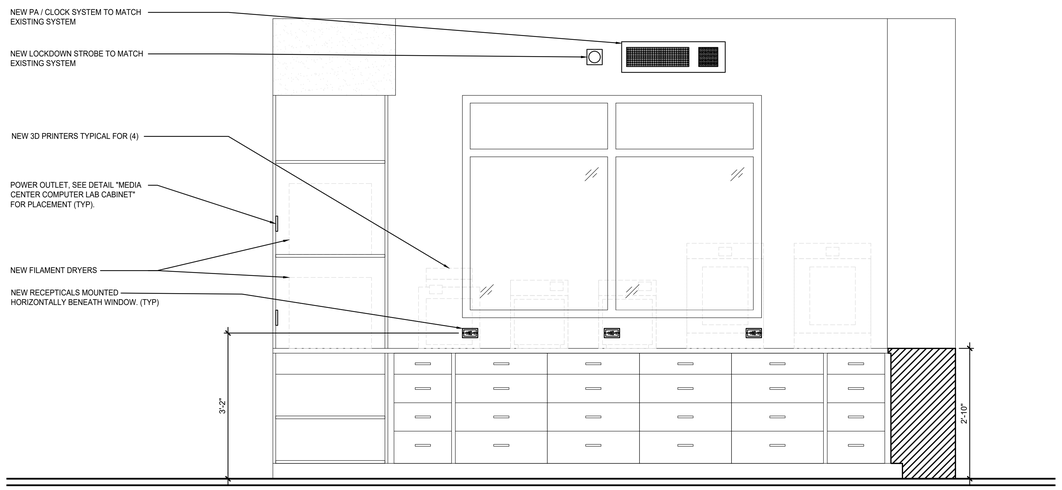
IT WORKBENCH SECTION

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



MEDIA CENTER COMPUTER LAB CABINET

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



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

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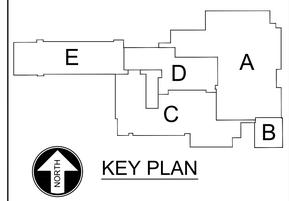

KEY PLAN

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

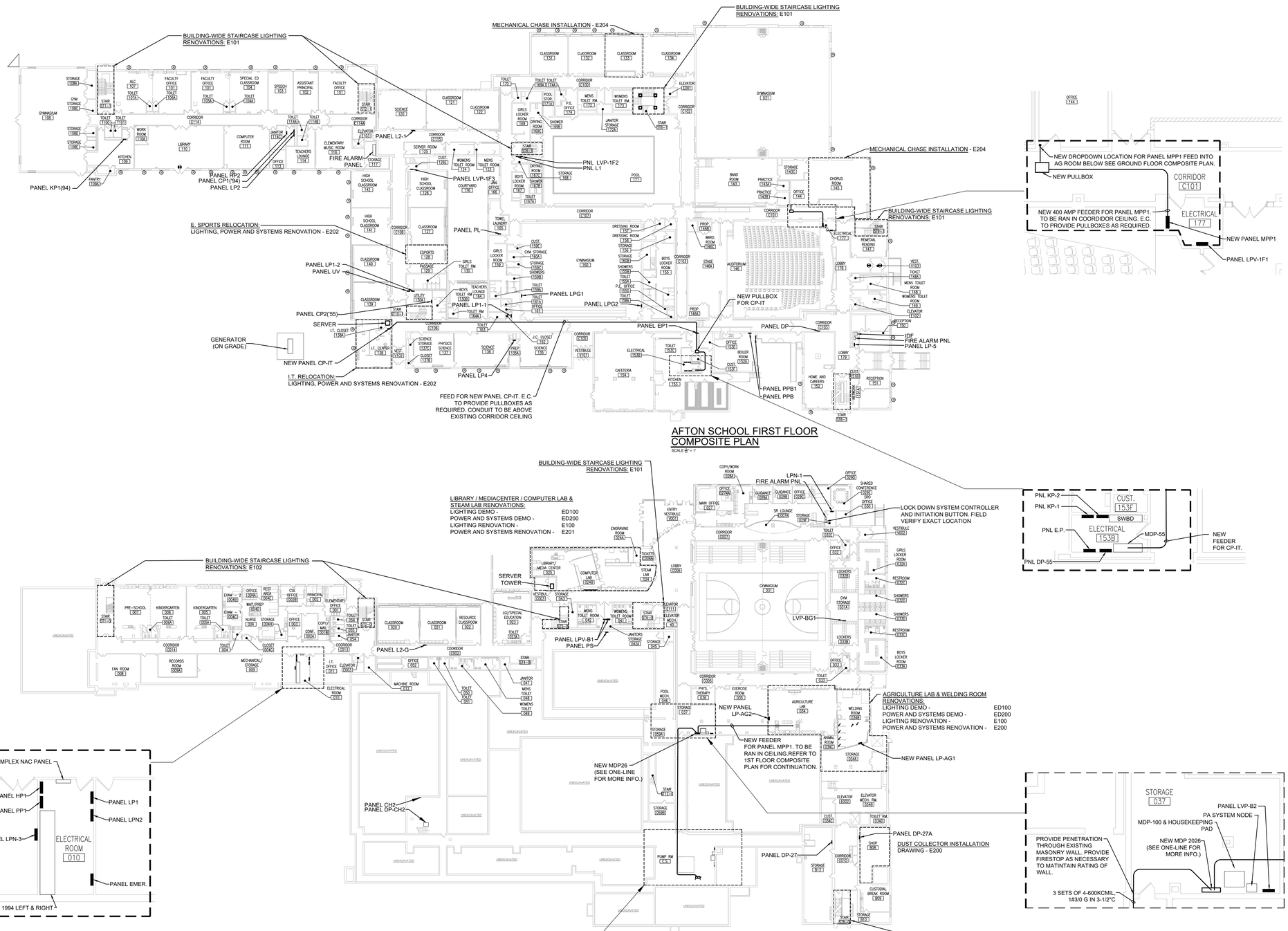
DRAWING TITLE:
ELECTRICAL DETAILS

DRAWN BY:	CHECKED BY:
MLT / TBH	LKN
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

E-300

CAD FILE: 5005-E-300.DWG PLOT DATE: 11/10/2025



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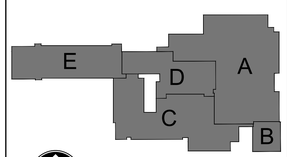

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

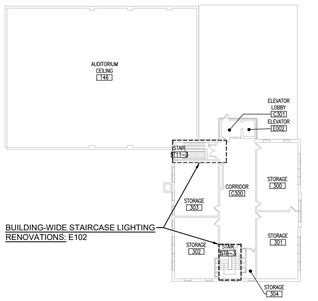
DRAWING TITLE:
ELECTRICAL COMPOSITE PLAN GROUND & 1ST

DRAWN BY:	CHECKED BY:
MLT / TBH	LKN
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

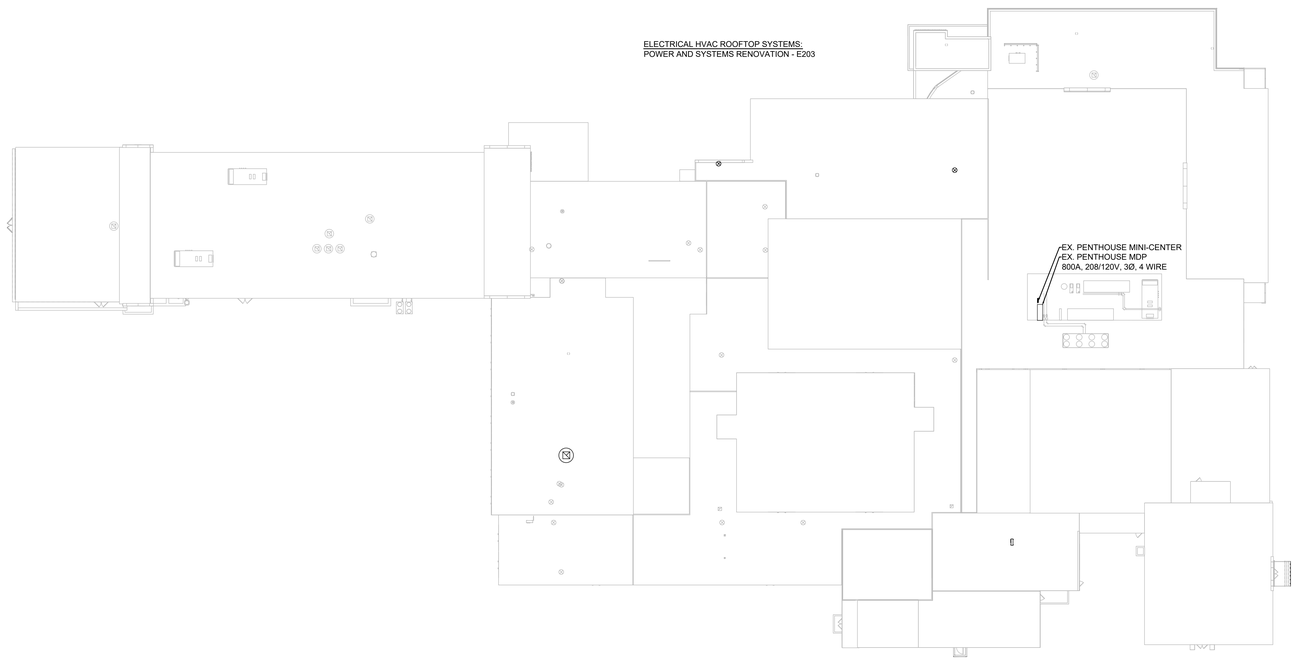
E-400

CAD FILE: 5005-E-400.DWG PLOT DATE: 11/10/2025



AFTON SCHOOL THIRD FLOOR COMPOSITE PLAN

SCALE: 3/64" = 1'

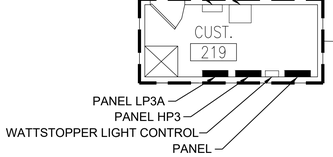


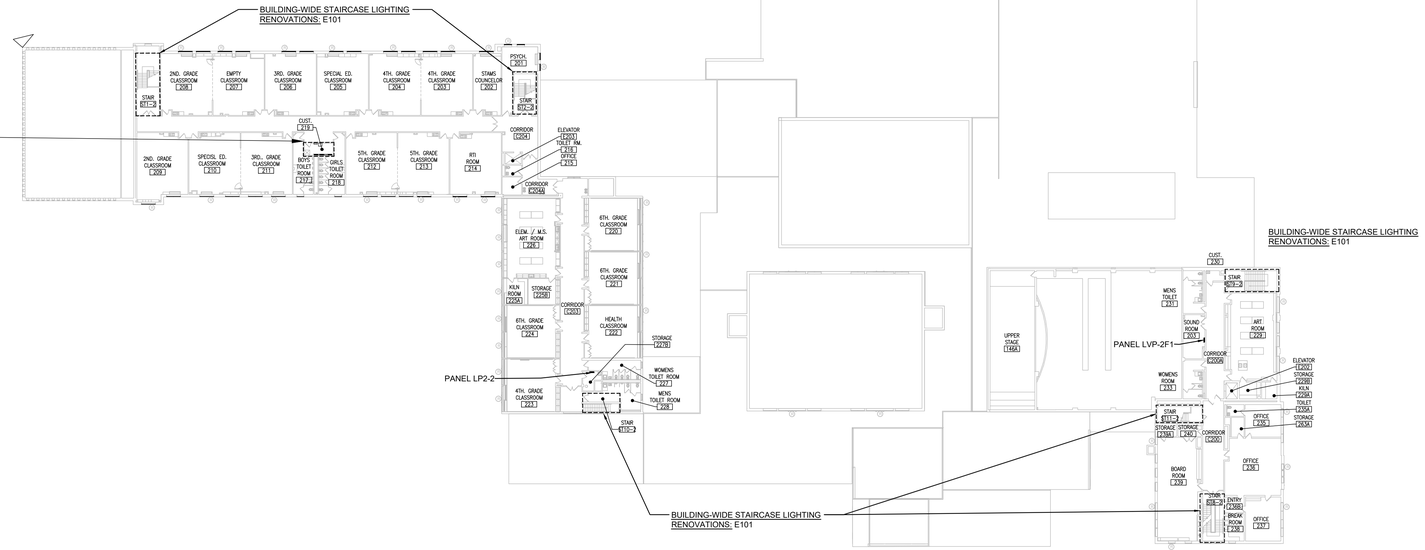
AFTON SCHOOL ROOF COMPOSITE PLAN

SCALE: 3/64" = 1'

NOTES FOR SPACES NOT SHOWN:

1. BUS GARAGE FUEL CANOPY SHALL HAVE FIRE PROTECTION SYSTEM IN PLACE. LIGHTING SHALL BE MOUNTED TO THE CEILING BY THE CANOPY.
2. PROVIDE 120V-20A POWER & DATA DROP FOR NEW HVAC CONTROLS LOCATED IN THE POOL MECHANICAL ROOM, OFFICE 144, AND CLASSROOM 144. (MECHANICAL DEVICE ATC-1,2,3)





AFTON SCHOOL SECOND FLOOR COMPOSITE PLAN

SCALE: 3/64" = 1'

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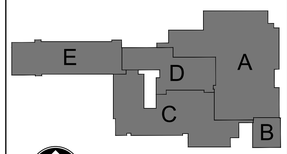
REVISION NO:



KEY PLAN

BID DOCUMENTS
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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

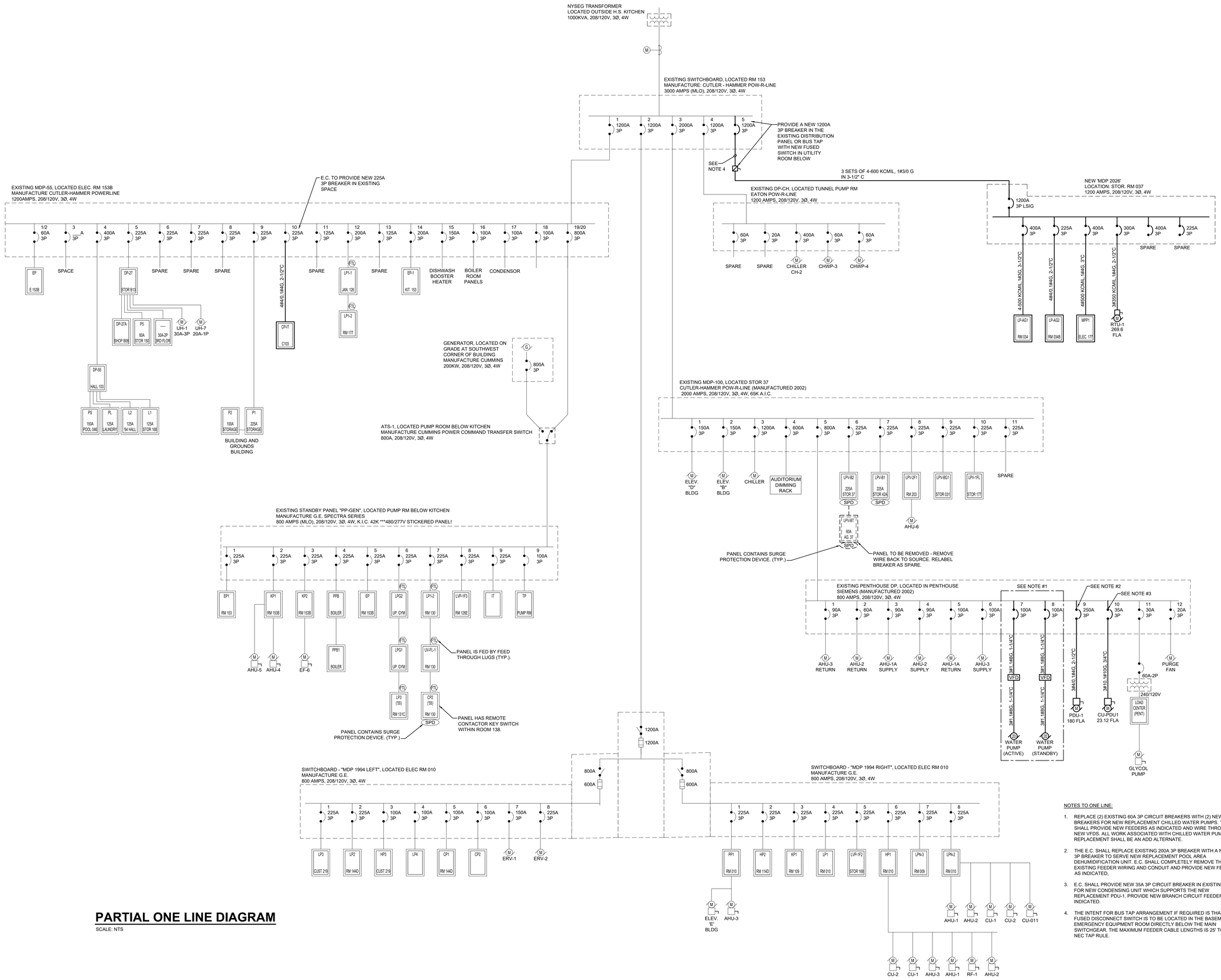
ELECTRICAL COMPOSITE PLAN 2ND, 3RD & ROOF

DRAWN BY:	CHECKED BY:
MLT / LKN	LKN
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

E-401

CAD FILE: 5005-E-400.DWG PLOT DATE: 11/10/2025



PARTIAL ONE LINE DIAGRAM

SCALE: NTS

NOTES TO ONE LINE:

1. REPLACE (2) EXISTING 60A 3P CIRCUIT BREAKERS WITH (2) NEW 100A 3P BREAKERS FOR NEW REPLACEMENT CHILLED WATER PUMPS. THE E.C. SHALL PROVIDE NEW FEEDERS AS INDICATED AND WIRE THROUGH NEW VFDS. ALL WORK ASSOCIATED WITH CHILLED WATER PUMP REPLACEMENT SHALL BE AN ADD ALTERNATE.
2. THE E.C. SHALL REPLACE EXISTING 200A 3P BREAKER WITH A NEW 250A 3P BREAKER TO SERVE NEW REPLACEMENT POOL AREA DEHUMIDIFICATION UNIT. E.C. SHALL COMPLETELY REMOVE THE EXISTING FEEDER WIRING AND CONDUIT AND PROVIDE NEW FEEDER AS INDICATED.
3. E.C. SHALL PROVIDE NEW 35A 3P CIRCUIT BREAKER IN EXISTING SPACE FOR NEW CONDENSING UNIT WHICH SUPPORTS THE NEW REPLACEMENT PDU-1. PROVIDE NEW BRANCH CIRCUIT FEEDER AS INDICATED.
4. THE INTENT FOR BUS TAP ARRANGEMENT IF REQUIRED IS THAT THE FUSED DISCONNECT SWITCH IS TO BE LOCATED IN THE BASEMENT EMERGENCY EQUIPMENT ROOM DIRECTLY BELOW THE MAIN SWITCHGEAR. THE MAXIMUM FEEDER CABLE LENGTHS IS 25' TO MEET NEC TAP RULE.

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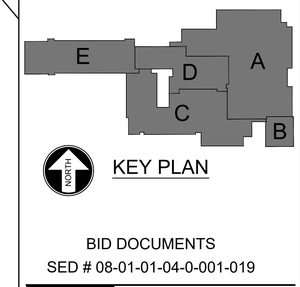

KEY PLAN

BID DOCUMENTS

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PROJECT TITLE:

Afton Central School District

29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

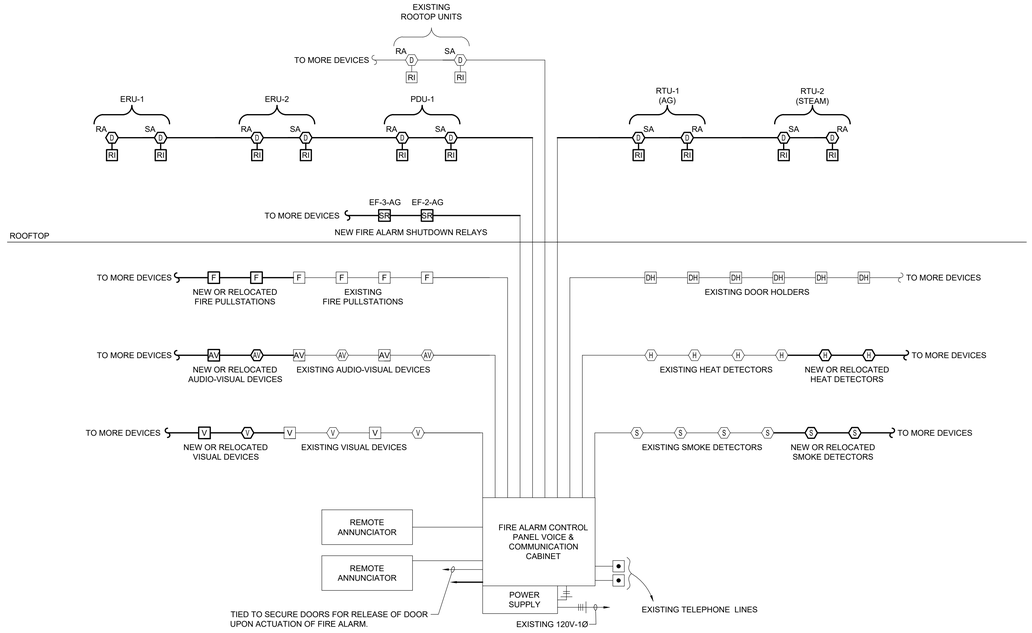
ELECTRICAL
ONE-LINE DIAGRAM

DRAWN BY:	CHECKED BY:
MLT / TBH	LKN
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

E-500

CAD FILE: 5005-E-500.DWG PLOT DATE: 11/10/2025

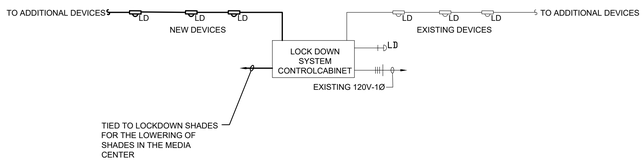


EXISTING FIRE ALARM RISER DIAGRAM

SCALE: NTS

NOTES:

1. FIRE ALARM CABLING SHALL BE PLENUM RATED AND SHALL BE INSTALLED IN CONDUIT.
2. ALL DEVICES SHALL BE MOUNTED PER NFPA 72 2010 EDITION 7.5.4 - AUDIO/VISUAL UNITS AND VISUAL UNITS SHALL BE MOUNTED SO THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" AFF.
3. THE SYSTEM MANUFACTURER SHALL INCLUDE WITH THE SHOP DRAWING SUBMITTAL, A COMPLETE WIRING DIAGRAM SHOWING ALL DEVICES AND ALL REQUIRED WIRING. THIS WIRING DIAGRAM SHALL BE SPECIFIC FOR THIS PROJECT. TYPICAL WIRING DIAGRAMS WILL NOT BE ACCEPTED. INCLUDE BATTERY CALCULATIONS AND VOLTAGE DROP CALCULATIONS.
4. QUANTITY AND LOCATION OF FIRE ALARM DEVICES SHALL BE INDICATED ON THE FLOOR PLANS.
5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEC, IBC, NFPA, ADA, AND ALL LOCAL CODES INCLUDING AUTHORITIES HAVING JURISDICTION.
6. ALL FIRE ALARM WORK SHALL BE CLOSELY COORDINATED WITH OWNER'S EXISTING SYSTEM VENDOR THE E.C. SHALL COORDINATE WITH JOHNSON CONTROLS AND OBTAIN QUOTE FOR HIS BID. ALL INTERCONNECTIONS TO CAMPUS SYSTEM, AND SHALL BE COORDINATED WITH OWNER PRIOR TO CONSTRUCTION.
7. ALL WIRE (LINE AND LOW VOLTAGE), RACEWAYS, BOXES, HARDWARE, SOFTWARE, PROGRAMMING, ACCESSORIES, ETC. NECESSARY TO CONNECT DEVICES SHALL BE PROVIDED IN ORDER TO FURNISH A COMPLETE AND OPERABLE SYSTEM.
8. DEVICES SHALL BE CIRCUITED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND WIRING DIAGRAM(S).
9. SYSTEM SHALL BE TESTED BY AUTHORIZED PERSONNEL, ONLY, IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS PRIOR TO OCCUPANCY. VERIFY ALL COMPONENTS OF THE SYSTEM OPERATE PROPERLY. VERIFY ALL RESPONSIBILITIES WITH EQUIPMENT VENDOR PRIOR TO TESTING.
10. FIRE ALARM SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL FIRE DEPARTMENT AND FIRE MARSHALL.



EXISTING LOCK DOWN SYSTEM RISER DIAGRAM

SCALE: NTS

NOTES:

1. THE EXISTING LOCK DOWN SYSTEM CONTROL IS LOCATED IN THE MAIN OFFICE.
2. THE E.C. SHALL PROVIDE NEW LOCK DOWN STROBE DEVICES TO MATCH EXISTING UNITS WHERE INDICATED ON THE FLOOR PLANS. EXTEND NEW INTERFACE WIRING BACK TO MAIN OFFICE AS REQUIRED OR TO NEAREST EXISTING DEVICE IF APPROPRIATE.
3. THE E.C. SHALL PROVIDE ROLL DOWN SHADE INTERFACE WITH THE EXISTING LOCK DOWN SYSTEM TO ACTIVATE SHADES IN THE EVENT OF LOCK DOWN INITIATION.

EXISTING PANELBOARD SCHEDULE

PANEL			MAINS (A):	225	VOLTAGE:	208	120	3Ø	4W	LOCATION:	JANITOR STORAGE 042A			SINGLE	x
LVP-B1			O.C. DEVICE:	MCB & SURGE	MIN. O.C:	EXISTING				FED BY:	MDP-100			DOUBLE	
			TYPE:	APPLIANCE	A.I.C:	EXISTING				MOUNTING:	SURFACE			COM. COVER	

SECTION 1

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	P	CKT
1	1	20	2#12	#12	3/4"	EMS POWER	1.0	1.0	***	***	***	***	RECS IG RM 022/023	-	-	-	20	1	2
3	1	20	-	-	-	SPARE	***	***	0.0	1.0	***	***	RECS IG RM 020/021/023	-	-	-	20	1	4
5	1	20	-	-	-	RECS&DOORS LOBBY C006, CH	***	***	***	***	1.0	1.0	RECS IG RM 023 (T.V.)	-	-	-	20	1	6
7	1	20	-	-	-	FC-9 RM 052/C006/CH	1.0	0.5	***	***	***	***	VAV BOXES - RM 025/024/024A	3/4"	#12	2#12	20	1	8
9	1	20	2#12	#12	3/4"	SERVER MAINT. RECS (MEDIA)	***	***	1.0	0.0	***	***	SPARE	-	-	-	20	1	10*
11	1	20	-	-	-	REC ELEVATOR PIT	***	***	***	***	1.0	1.0	IRP PANEL RM 044	-	-	-	20	1	12
13	3	100	4#1	#8	1-1/2"	SUBFEED FOR SECOND SECTION	8.2	0.0	***	***	***	***	SPARE	-	-	-	20	1	14
15							***	***	6.4	0.0	***	***	SPARE	-	-	-	20	1	16
17							***	***	***	***	4.6	1.0	RM 041/042 GFI	-	-	-	20	1	18
19	1	20	-	-	-	SPARE	1.0	1.0	***	***	***	***	REC IG RM 026	-	-	-	20	1	20
21	1	20	-	-	3/4"	LTGS C004/041/042/004	***	***	1.0	1.0	***	***							22
23	1	20	2#12	#12	3/4"	HEAT PRESS W. RM024	***	***	***	***	1.0	1.0	SUBLIMATION PRINTER	3/4"	#12	4#12	20	3	24
25	1	20	2#12	#12	3/4"	HEAT PRESS CENTER. RM 024	1.0	1.0	***	***	***	***							26
27	1	20	2#12	#12	3/4"	HEAT PRESS E. RM 024	***	***	1.0	1.0	***	***	RECS - RM 024A)	3/4"	#12	2#12	20	1	28
29	1	20	2#12	#12	3/4"	WEST 3D PRINTERS	***	***	***	***	1.0	0.0	SPARE	-	-	-	20	1	30
31	1	20	2#12	#12	3/4"	EAST 3D PRINTERS	1.0	1.0	***	***	***	***	RECS RM 052/062	-	-	-	20	1	32
33	1	30	-	-	-	LIBRARY UPS	***	***	1.0	1.0	***	***	RECS ST-6, LOBBY C006	-	-	-	20	1	34
35	1	30	-	-	-	LIBRARY UPS	***	***	***	***	1.0	2.7	HAND DRYER 042	-	-	-	30	2	36
37	1	20	-	-	-	ELEVATOR LTGS	1.0	2.7	***	***	***	***							38
39	2	20	3#12	#12	3/4"	LIBRARIAN PRINTER	***	***	1.0	3.7	***	***	HAND DRYER 041	-	-	-	30	1	40
41							***	***	***	***	1.0	3.7	HAND DRYER 041	-	-	-	30	1	42

SECTION 2 (NEW)

43	1	20	2#12	#12	3/4"	RECS - CORDREELS MEDIA	1.1	0.7	***	***	***	***	W. CORDREELS STEAM	3/4"	#12	2#12	20	1	44
45	1	20	2#12	#12	3/4"	RECS - GENERAL MEDIA	***	***	1.1	0.7	***	***	E. CORDREELS STEAM	3/4"	#12	2#12	20	1	46
47	1	20	2#12	#12	3/4"	RECS - LIBRARIAN DESK	***	***	***	***	0.7	0.5	RECS - STEAM MONITORS	3/4"	#12	2#12	20	1	48
49	1	20	2#12	#12	3/4"	RECS - N. COMPUTERS (024B)	0.7	1.2	***	***	***	***	STEAM 12 REC WIREMOLD (W.)	3/4"	#12	2#12	20	1	50**
51	1	20	2#12	#12	3/4"	RECS - S. COMPUTERS (024B)	***	***	0.7	1.2	***	***	STEAM 12 REC PLUGMOLD (E.)	3/4"	#12	2#12	20	1	52**
53	1	20	2#12	#12	3/4"	RECS - GENERAL 024B	***	***	***	***	0.5	0.5	STEAM 6 REC WIREMOLD	3/4"	#12	2#12	20	1	54
55	1	20	2#12	#12	3/4"	LTGS - MEDIA CENTER	0.9	1.4	***	***	***	***	LTGS - STEAM (RMS 024/A/B)	3/4"	#12	2#12	20	1	56
57	1	20	2#12	#12	3/4"	LTGS - LEARNING COMMONS	***	***	1.0	0.5	***	***	MEDIA LOCKDOWN SHADES	3/4"	#12	2#12	20	1	58
59	1	20	2#12	#12	3/4"	REC - STEAM TEACH. STATION	***	***	***	***	0.3	0.7	RECS - LIBRARY E./S.	3/4"	#12	2#12	20	1	60
61	1	20	2#12	#12	3/4"	REC - V.R. CABINET	0.3	0.7	***	***	***	***	RECS - (024B) CABINET	3/4"	#12	2#12	20	1	62
63	1	20	-	-	-	SPACE	***	***	0.0	1.2	***	***	MEDIA 12 REC WIREMOLD (W.)	3/4"	#12	2#12	20	1	64
65	1	20	-	-	-	SPACE	***	***	***	***	0.0	1.2	MEDIA 12 REC PLUGMOLD (E.)	3/4"	#12	2#12	20	1	66
67	1	20	-	-	-	SPACE	0.0	1.2	***	***	***	***	SPACE	-	-	-	20	1	68
69	1	20	-	-	-	SPACE	***	***	0.0	0.0	***	***	SPACE	-	-	-	20	1	70
71	1	20	-	-	-	SPACE	***	***	***	***	0.0	0.0	SPACE	-	-	-	20	1	72
							21.39		19.14		20.95								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				61.48								
							TOTAL KVA DEMAND:				43.04								
							TOTAL AMPERAGE DEMAND:				119.46								

*BREAKER MADE SPARE BY DEMOLITION
** GFCI BREAKER

NEW PANELBOARD SCHEDULE

PANEL			MAINS (A):	400	VOLTAGE:	208	120	3Ø	4W	LOCATION:	ELEC. 177			SINGLE	x
MPP1			O.C. DEVICE:	C.B.	MIN. O.C:					FED BY:	MDP 2026			DOUBLE	
			TYPE:	HVAC	A.I.C:					MOUNTING:	SURFACE			COM. COVER	

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	P	CKT
1	3	90	3#2	#8	1-1/4"	EF-2-AG (OVER AG - WELDING)	6.9	1.8	***	***	***	***	EF-3-AG (OVER AG - PLASMA)	4#8	#10	3/4"	35	3	2
3							***	***	6.9	1.8	***	***							4
5							***	***	***	***	6.9	1.8							6
7	3	125	3#1/0	#6	2"	CU-DHU-1 (ROOFTOP - POOL MECH RM.)	9.2	11.2	***	***	***	***	RTU-2 (OVER STEAM LAB)	2"	#6	4#1/0	125	3	8
9							***	***	9.2	11.2	***	***							10
11							***	***	***	***	9.2	11.2							12
13	3	70	3#4	#8	1-1/4"	ERU-1 (GIRLS POOL LOCKER)	4.5	4.5	***	***	***	***	ERU-2 (BOYS POOL LOCKER)	1-1/4"	#8	4#4	70	3	14
15							***	***	4.5	4.5	***	***							16
17							***	***	***	***	0.8	1.8							18
19	2	15	2#12	#12	3/4"	CU-5 (MEDIA SERVER RM)	0.8	1.8	***	***	***	***	CU-4 (3D PRINT RM)	3/4"	#10	2#10	30	2	20
21							***	***	1.2	1.3	***	***							22
23	1	25	2#12	#12	3/4"	EF-1-AG (ANIMAL RM)	***	***	***	***	1.2	1.3	EF-4-P (CHOLRINE STOR.)	3/4"	#12	2#12	20	1	24
25	1	20	2#12	#12	3/4"	EF-5-P (CO2 STOR.)	1.3	1.3	***	***	***	***	EF-2-LC (SUBLIM. PRINTER)	3/4"	#12	2#12	20	1	26
27	1	20	2#12	#12	3/4"	EF-3-LC (LASER ENGRAVER)	***	***	1.3	1.3	***	***	EF-1-LC (3D PRINTERS)	3/4"	#12	2#12	20	1	28
29	1	20	2#12	#12	3/4"	EF-11 (POOL EQUIP.)	***	***	***	***	1.3	1.0	EF2/EF3 DAMPERS	3/4"	#12	2#12	20	1	30
31	1	20	-	-	-	SPARE	0.0	0.0	***	***	***	***	SPARE	-	-	-	20	1	32
33	1	20	-	-	-	SPARE	***	***	0.0	0.0	***	***	SPARE	-	-	-	20	1	34
35	1	-	-	-	-	SPACE	***	***	***	***	0.0	0.0	SPACE	-	-	-	-	1	36
37	1	-	-	-	-	SPACE	0.0	0.0	***	***	***	***	SPACE	-	-	-	-	1	38
39	1	-	-	-	-	SPACE	***	***	0.0	0.0	***	***	SPACE	-	-	-	-	1	40
41	1	-	-	-	-	SPACE	***	***	***	***	0.0	0.0	SPACE	-	-	-	-	1	42
							43.18		43.09		36.54								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				122.80								
							TOTAL KVA DEMAND:				85.96								
							TOTAL AMPERAGE DEMAND:				238.61								

NEW PANELBOARD SCHEDULE

DESIGNATION			MAINS (A):	1200	VOLTAGE:	208	120	3Ø	4W	LOCATION:	STOR. 037			SINGLE	x
MDP2026			O.C. DEVICE:	C.B.	MIN. O.C:	---				FED BY:	SWITCHBOARD			DOUBLE	
			TYPE:	DIST.	A.I.C:	---				MOUNTING:	FLOOR			COM. COVER	

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	PO	CKT
1	3	400	4-500 KCMIL	1#3	3-1/2"	LP-AG1 RM 034B	22.2	14.0	***	***	***	***	LP-AG2 RM 034	4#4/0	1#4	3-1/2"	225	3	2
							***	***	21.8	11.8	***	***							
							***	***	***	***	18.5	10.3							
3	3	400	2-1/2"	1#4	4#4/0	MPP1 ELEC. CLOSET 177	43.2	32.4	***	***	***	***	RTU-1 (SERVES AG)	4#4/0	1#4	3-1/2"	300	3	4
							***	***	43.1	32.4	***	***							
							***	***	***	***	36.5	32.4							
5	3	400	-	-	-	SPARE	0.0	0.0	***	***	***	***	SPARE	-	-	-	225	3	6
							***	***	0.0	0.0	***	***							
							***	***	***	***	0.0	0.0							
7	3	-	-	-	-	-	0.0	0.0	***	***	***	***	–	-	-	-	-	3	8
							***	***	0.0	0.0	***	***							
							***	***	***	***	0.0	0.0							
9	3	-	-	-	-	-	0.0	0.0	***	***	***	***	–	-	-	-	-	3	10
							***	***	0.0	0.0	***	***							
							***	***	***	***	0.0	0.0							
11	3	-	-	-	-	-	0.0	0.0	***	***	***	***	–	-	-	-	-	3	12
							***	***	0.0	0.0	***	***							
							***	***	***	***	0.0	0.0							
							111.7		109.1		97.8								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				318.51								
							TOTAL KVA DEMAND:				222.96								
							TOTAL AMPERAGE DEMAND:				618.87								

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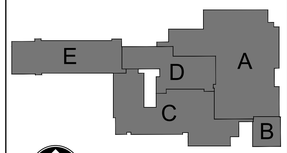

KEY PLAN

BID DOCUMENTS

SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

FIRE ALARM RISER DIAGRAM AND PANEL SCHEDULES

DRAWN BY:	CHECKED BY:
MLT / TBH	LKN
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

E-501

CAD FILE: 5005-E501 & E502.DWG PLOT DATE: 11/10/2025

NEW PANELBOARD SCHEDULE

PANEL			MAINS (A):	400	VOLTAGE:	208	120	3Ø	4W	LOCATION:	WELDING ROOM (034B)					SINGLE	x
LP-AG1			O.C. DEVICE:	C.B.+ SHUNT	MIN. O.C:	---				FED BY:	MDP 2026					DOUBLE	
			TYPE:	MCB	A.I.C:	---				MOUNTING:	FLUSH					COM. COVER	

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	P	CKT
1							x	7.2	***	***	***	***							2
3	3	400	-	-	-	SHUNT TRIP	***	***	x	7.2	***	***	PLASMA CUTTER	3/4"	#10	3#6	60	3	4
5							***	***	***	***	x	7.2							6
7	1	20	2#12	#12	3/4"	POWER FOR SHUNT TRIP	0.5	1.0	***	***	***	***							8
9	2	40	3#8	#10	3/4"	WELDER (NORTH)	***	***	1.6	1.0	***	***	BAND SAW	3/4"	#12	3#12	20	3	10
11							***	***	***	***	1.6	1.0							12
13	2	40	3#8	#10	3/4"	WELDER (NORTH CENT.)	1.6	1.9	***	***	***	***	CNC	3/4"	#10	3#12	30	3	14
15							***	***	1.6	1.9	***	***							16
17	2	40	3#8	#10	3/4"	WELDER (SOUTH CENT.)	***	***	***	***	1.6	1.9							18
19							1.6	1.4	***	***	***	***	OVERHEAD DOOR (AG SHOP)	3/4"	#12	3#12	20	3	20
21	2	40	3#8	#10	3/4"	WELDER SOUTH	***	***	1.6	1.4	***	***							22
23							***	***	***	***	1.6	1.4							24
25	1	20	2#12	#12	3/4"	LTGS - WELDING / ANIMAL	0.9	4.1	***	***	***	***	AIR COMPRESSOR	3/4"	#10	2#8	40	2	26
27	1	20	2#12	#12	3/4"	WELDING REC. NORTH	***	***	0.5	4.1	***	***							28
29	1	20	2#12	#12	3/4"	WELDING REC. NORTH CENT	***	***	***	***	0.5	1.0	PEDISTAL GRINDER	3/4"	#12	2#12	20	1	30
31	1	20	2#12	#12	3/4"	WELDING REC. SOUTH CENT.	0.5	1.0	***	***	***	***	GOGGLE CABINET	3/4"	#12	2#12	20	1	32
33	1	20	2#12	#12	3/4"	WELDING REC. SOUTH	***	***	0.5	0.4	***	***	N. WORKTABLE CORDREEL	3/4"	#12	2#12	20	1	34
35	1	20	2#12	#12	3/4"	RECS - GLASS WALL SHOP	***	***	***	***	0.4	0.4	S. WORKTABLE CORDREEL	3/4"	#12	2#12	20	1	36
37	1	-	-	-	-	SPARE	0.0	0.4	***	***	***	***	RECS - EXTERIOR WALL	3/4"	#12	2#12	20	1	38
39	1	-	-	-	-	SPARE	***	***	0.0	0.0	***	***	SPARE	-	-	-	-	1	40
41	1	-	-	-	-	SPARE	***	***	***	***	0.0	0.0	SPARE	-	-	-	-	1	42
							22.16		21.78		18.54								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				62.48								
							TOTAL KVA DEMAND:				43.73								
							TOTAL AMPERAGE DEMAND:				121.39								

*ALL BREAKERS WITHIN THIS PANEL ARE TO BE GFCI BREAKERS.

NEW PANELBOARD SCHEDULE

PANEL			MAINS (A):	225	VOLTAGE:	208	120	3Ø	4W	LOCATION:	AG LAB (034)					SINGLE	x
LP-AG2			O.C. DEVICE:	C.B.+SHUNT	MIN. O.C:	---				FED BY:	MDP 2026					DOUBLE	
			TYPE:	MCB	A.I.C:	---				MOUNTING:	FLUSH					COM. COVER	

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	P	CKT
1							X	4.0	***	***	***	***							2
3	3	225	-	-	-	SHUNT TRIP	***	***	X	4.0	***	***	EAST STOVE	3/4"	#10	3#8	40	2	4
5							***	***	***	***	X	4.0							6
7	1	20	2#12	#12	3/4"	POWER FOR SHUNT TRIP	0.5	4.0	***	***	***	***	WEST STOVE	3/4"	#10	3#8	40	2	8
9	1	20	2#12	#12	3/4"	TEACHER'S DESK REC	***	***	0.4	1.5	***	***	EAST STOVE VENT	3/4"	#12	2#12	20	1	10
11	1	20	2#12	#12	3/4"	RECS - W.GENERAL	***	***	***	***	0.7	1.5	WEST STOVE VENT	3/4"	#12	2#12	20	1	12
13	1	20	2#12	#12	3/4"	RECS - NORTH WALL	0.7	0.5	***	***	***	***	RECS - KITCHEN CKT 1	3/4"	#12	2#12	20	1	14
15	1	20	2#12	#12	3/4"	REC - CORDREEL TABLE 1	***	***	0.4	0.5	***	***	RECS - KITCHEN CKT 2	3/4"	#12	2#12	20	1	16
17	1	20	2#12	#12	3/4"	REC - CORDREEL TABLE 2	***	***	***	***	0.4	1.5	REC - KITCHEN FRIDGE (DED.)	3/4"	#12	2#12	20	1	18
19	1	20	2#12	#12	3/4"	REC - CORDREEL TABLE 3	0.4	1.5	***	***	***	***	REC - CHEST FREEZER (DED.)	3/4"	#12	2#12	20	1	20
21	1	20	2#12	#12	3/4"	REC - CORDREEL TABLE 4	***	***	0.4	1.5	***	***	REC - YOGURT COOLER (DED.)	3/4"	#12	2#12	20	1	22
23	1	20	2#12	#12	3/4"	REC - CORDREEL TABLE 5	***	***	***	***	0.4	0.5	RECS - AG COUNTER CKT 1	3/4"	#12	2#12	20	1	24
25	1	20	2#12	#12	3/4"	REC - CORDREEL TABLE 6	0.4	0.5	***	***	***	***	RECS - AG COUNTER CKT 2	3/4"	#12	2#12	20	1	26
27	1	20	2#12	#12	3/4"	REC - CORDREEL TABLE 7	***	***	0.4	0.7	***	***	HYDROPOINCS FLOORBOX	3/4"	#12	2#12	20	1	28
29	1	20	2#12	#12	3/4"	REC - CORDREEL TABLE 8	***	***	***	***	0.4	0.2	EAST KITCHEN MIXER	3/4"	#12	2#12	20	1	30
31	1	20	2#12	#12	3/4"	RECS - ANIMAL RM+ S. GEN.	0.9	0.5	***	***	***	***	VAV'S AG ROOMS (024/A/B)	3/4"	#12	2#12	20	1	32
33	1	20	2#12	#12	3/4"	LTGS - AG LAB	***	***	0.9	1.2	***	***	REC KITCHEN ISLAND	3/4"	#12	2#12	20	1	34
35	1	20	2#12	#12	3/4"	RECS - GLASS WALL LAB	***	***	***	***	0.8	0.0	SPACE	-	-	-	-	1	36
37	1	-	-	-	-	SPACE	0.0	0.0	***	***	***	***	SPACE	-	-	-	-	1	38
39	1	-	-	-	-	SPACE	***	***	0.0	0.0	***	***	SPACE	-	-	-	-	1	40
41	1	-	-	-	-	SPACE	***	***	***	***	0.0	0.0	SPACE	-	-	-	-	1	42
							13.96		11.82		10.32								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				36.10								
							TOTAL KVA DEMAND:				25.27								
							TOTAL AMPERAGE DEMAND:				70.15								

*ALL BREAKERS WITHIN THIS PANEL ARE TO BE GFCI BREAKERS.

EXISTING PANELBOARD SCHEDULE

PANEL			MAINS (A):	225	VOLTAGE:	208	120	3Ø	4W	LOCATION:	STOR. 168					SINGLE	x
LVP-1F2			O.C. DEVICE:	MCB	MIN. O.C:	---				FED BY:	MDP-100					DOUBLE	
			TYPE:	APPLIANCE	A.I.C:	---				MOUNTING:	SURFACE					COM. COVER	

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	P	CKT
X							***	***	***	***	***	***							X
X	3	225	-	-	-	MAIN BREAKER	***	***	***	***	***	***	XXX SINGLE BREAKER XXX	X	X	X	X	X	X
X							***	***	***	***	***	***							X
1	1	20	-	-	-	LTGS - STAIR AND EXITS	1.0	1.0	***	***	***	***	LTGS - RM 131, 132	-	-	-	20	1	2
3	1	20	-	-	-	LTGS - CORR. C100/10	***	***	1.0	1.0	***	***	LTGS - RM 133, 134	-	-	-	20	1	4
5	1	20	-	-	-	LTGS - LTGS C107/8/10	***	***	***	***	1.0	1.0	LTGS -PE OFFICE, STAIR, BR	-	-	-	20	1	6
7	1	20	-	-	-	U.V. - 9/10/11/12	1.0	1.0	***	***	***	***	LTGS - LOCKER 167	-	-	-	20	1	8
9	1	20	-	-	-	GFI POOL AREA E.	***	***	1.0	1.0	***	***	LTGS - LOCKER 169	-	-	-	20	1	10
11	1	20	-	-	-	GFI POOL WEST, RM 169/170	***	***	***	***	1.0	1.0	E.F. - 9 & 11	-	-	-	20	1	12
13							1.0	1.0	***	***	***	***							14
15	3	20	-	-	-	BLEACHER MOTOR GYM 160	***	***	1.0	1.0	***	***	E.F. 2 & 10	-	-	-	20	3	16
17							***	***	***	***	1.0	1.0							18
19	1	20	-	-	-	SPARE	0.0	1.0	***	***	***	***	HAND DRYER 172	-	-	-	20	1	20
21	1	30	-	-	-	HAND DRYER RM 167	***	***	1.0	1.0	***	***	HAND DRYER 172	-	-	-	20	1	22
23	1	30	-	-	-	HAND DRYER RM 167	***	***	***	***	1.0	1.0	E.F. 16	-	-	-	20	1	24
25	1	20	-	-	-	IG REC RM 133, 134, 174	1.0	1.0	***	***	***	***	HAND DRYER 173	-	-	-	30	1	26
27	1	20	-	-	-	IG REC RM 131, 132, 174	***	***	1.0	1.0	***	***	HAND DRYER 173	-	-	-	30	1	28
29	1	20	-	-	-	F.C. 11 - RM 174	***	***	***	***	1.0	0.0	MAINT REC/LTG - CU/DHU-1	3/4"	#12	2#12	20	1	30**
31	1	20	-	-	-	GYM 160 CURTIN	1.0	1.0	***	***	***	***	RECS - RM 131, 133	-	-	-	20	1	32
33	1	20	-	-	-	GYM 160 BACKBOARDS	***	***	1.0	1.0	***	***	RECS - RM 132, 134	-	-	-	20	1	34
35	1	20	-	-	-	GFI RM 165, 167	***	***	***	***	1.0	1.0	RECS - PE OFFICE	-	-	-	20	1	36
37	1	20	-	-	-	IG RECS GYM 160	1.0	0.0	***	***	***	***	MAINT REC/LTG - CU/PDU-1	3/4"	#12	2#12	20	1	38*
39	1	20	-	-	-	IG REC GYM 160	***	***	1.0	0.0	***	***	MAINT REC/LTG - AG RTU	3/4"	#12	2#12	20	1	40**
41	1	20	-	-	-	-	***	***	***	***	0.0	0.0	MAINT REC - EF ANIMAL RM	3/4"	#12	2#12	20	1	42**
							12.00		13.00		11.00								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				36.00								
							TOTAL KVA DEMAND:				25.20								
							TOTAL AMPERAGE DEMAND:				69.95								

*E.C TO REUSE EXISTING SPARE BREAKER FOR NEW CIRCUIT.
** E.C. TO ADD NEW 20A BREAKER FOR NEW CIRCUIT.

EXISTING PANELBOARD SCHEDULE

DESIGNATION			MAINS (A):	1200	VOLTAGE:	208	120	3Ø	4W	LOCATION:	KITCH ELEC. 153B					SINGLE	x
MPD55			O.C. DEVICE:	MLO	MIN. O.C:	---				FED BY:	SWBD					DOUBLE	
			TYPE:	DISTRIBUTION	A.I.C:	---				MOUNTING:	SURFACE					COM. COVER	

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	PO	CKT
1	3	60	-	-	-	EXISTING LOAD	3.6	0.0	***	***	***	***	SINGLE BREAKER (BUSS TAP)	X	X	X	X	X	2
							***	***	3.6	0.0	***	***							
							***	***	***	***	3.6	0.0							
3	3	-	-	-	-	SPACE	0.0	11.7	***	***	0.0	12.4	DP-55 1908 1ST FLR CORIDOOR	-	-	-	400	3	4
							***	***	0.0	12.4	***	***							
							***	***	***	***	0.0	12.1							
5	3	225	-	-	-	DP-27 1908 BASEMENT STOR. 008	26.9	0.0	***	***	***	***	SPARE	-	-	-	225	3	6
							***	***	31.9	0.0	***	***							
							***	***	***	***	24.2	0.0							
7	3	225	-	-	-	SPARE	0.0	0.0	***	***	***	***	SPARE	-	-	-	225	3	8
							***	***	0.0	0.0	***	***							
							***	***	***	***	0.0	0.0							
9	3	225	-	-	-	SPARE	0.0	12.4	***	***	***	***	PANEL CP-IT RM 138 SERVER CLOSET	2-1/2"	1#4	4#4/0	200	3	10*
							***	***	0.0	14.1	***	***							
							***	***	***	***	0.0	14.7							
11	3	125	-	-	-	SPARE	0.0	12.0	***	***	***	***	LP1-1 & LP1-2 RM 126 & RM 177	-	-	-	200	3	12
							***	***	0.0	12.0	***	***							
							***	***	***	***	0.0	12.0							
13	3	125	-	-	-	SPARE	0.0	12.0	***	***	***	***	EP-1 KITCHEN ELEC 153B	-	-	-	200	3	14
							***	***	0.0	12.0	***	***							
							***	***	***	***	0.0	12.0							
15	3	150	-	-	-	DISHWASHER BOOSTER HEATER	10.8	6.0	***	***	***	***	PPB & PPB1 BOILER ROOM	-	-	-	100	3	16
							***	***	10.8	6.0	***	***							
							***	***	***	***	10.8	6.0							
17	3	100	-	-	-	CONDENSOR	6.0	6.0	***	***	***	***	DP CORIDOOR C103 (1908)	-	-	-	100	3	18
							***	***	6.0	6.0	***	***							
							***	***	***	***	6.0	6.0							
19	3	800	-	-	-	PP-GEN VIA ATS-1 PUMP ROOM BELOW	77.4	0.0	***	***	***	***	SINGLE BREAKER	X	X	X	X	X	20
							***	***	83.7	0.0	***	***							
							***	***	***	***	80.7	0.0							
							184.8		198.4		188.1								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				571.37								
							TOTAL KVA DEMAND:				371.39								
							TOTAL AMPERAGE DEMAND:				1030.88								

EXISTING PANELBOARD SCHEDULE

PANEL			MAINS (A):	225	VOLTAGE:	208	120	3Ø	4W	LOCATION:	STORAGE 037					SINGLE	x
LVP-B2			O.C. DEVICE:	MCB & SURGE	MIN. O.C:	EXISTING				FED BY:	MDP-100					DOUBLE	
			TYPE:	APPLIANCE	A.I.C:	EXISTING				MOUNTING:	SURFACE					COM. COVER	

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	P	CKT
1	1	20	-	-	-	U.V. RM 027, 028, 029, 030	1.0	1.0	***	***	***	***	RECS IG RM 035/036	1.1/2"	#12	4#12	20	1	2
3	1	20	-	-	-	RECS RM 027/028	***	***	1.0	1.0	***	***	RECS IG 1908 BASEMENT	-	-	-	20	1	4
5	1	20	-	-	-	RECS RM 029/030	***	***	***	***	1.0	1.0	RECS IG FACILITIES OFFICE	-	-	-	20	1	6
7	1	20	-	-	-	UNIT HEATER 034 & CUH-1	1.0	1.0	***	***	***	***	RECS RM C005/C008/035	-	-	-	20	1	8
9	1	20	-	-	-	RECS IG-027/028	***	***	1.0	1.0	***	***	RECS RM 036/037	-	-	-	20	1	10
11	1	20	-	-	-	RECS IG-026/030	***	***	***	***	1.0	1.0	RECS RM 034A	-	-	-	20	1	12
13							5.8	1.0	***	***	***	***	LTGS C007/VEST/VOO4/WALL	-	-	-	20	1	14
15	3	80	-	-	-	SEWER PUMP	***	***	5.8	1.0	***	***	LTGS RM 029/030	-	-	-	20	1	16
17							***	***	***	***	5.8	1.0	MAIN OFFICE T.V.	-	-	-	20	1	18
19	1	40	-	-	-	AFTERMIX MAC PANEL	1.0	1.0	***	***	***	***	LTGS LOBBY - HIGH HATS	-	-	-	20	1	20
21	1	40	-	-	-	SPARE	***	***	0.0	1.0	***	***	LTGS LOBBY&VESIBULE	-	-	-	20	1	22
23	1	40	-	-	-	SPARE	***	***	***	***	0.0	1.0	LTGS-C009/C005/037/036	-	-	-	20	1	24
25							1.4	1.0	***	***	***	***	SPARE	-	-	-	20	1	26*
27	3	20	-	-	-	EF - 1 RM 029	***	***	1.4	1.0	***	***	LTGS STOR. 034A	-	-	-	20	1	28
29							***	***	***	***	1.4	1.0	LTGS STOR. RM 035	-	-	-	20	1	30
*31							0.0	0.0	***	***	***	***	SPACE	-	-	-	-	-	32
*33	3	60	-	-	-	SPARE	***	***	0.0	0.0	***	***	SPACE	-	-	-	-	-	34
*35							***	***	***	***	0.0	1.0	RECS RM C007/028/030	-	-	-	20	1	36
37	1	20	-	-	-	JOHNSON CONTROL POWER	1.0	1.4	***	***	***	***	FCU MAIN LOBBY	-	-	-	20	3	38
39	-	-	-	-	-	-	***	***	0.0	1.4	***	***							40
41	-	-	-	-	-	-	***	***	***	***	0.0	1.4							42
							17.64		15.64		16.60								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				49.88								
							TOTAL KVA DEMAND:				34.92								
							TOTAL AMPERAGE DEMAND:				96.92								

*REMOVE WIRE BACK TO PANEL, RELABEL BREAKER AS SPARE.

EXISTING PANELBOARD SCHEDULE

DESIGNATION			MAINS (A):	3000	VOLTAGE:	208	120	3Ø	4W	LOCATION:	KITCHEN ELEC. 153					SINGLE	x
SWBD			O.C. DEVICE:	MLO	MIN. O.C:	---				FED BY:	NSEG XFMR					DOUBLE	
			TYPE:	DISTRIBUTION	A.I.C:	---				MOUNTING:	FLOOR					COM. COVER	

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	PO	CKT
1	3	1200	-	-	-	MDP 55 KITCHEN ELEC. RM 153B	55.1	51.0	***	***	***	***	MDP 1994 (LEFT & RIGHT) ELEC. RM 010	-	-	-	1200	3	2
							***	***	55.1	51.0	***	***							
							***	***	***	***	55.1	51.0							
3	3	2000	-	-	-	MDP 100 STORAGE RM 037	286.9	56.0	***	***	***	***	DP-CH TUNNEL PUMP ROOM	-	-	-	1200	3	4
							***	***	271.6	56.0	***	***							
							***	***	***	***	282.4	56.0							
X	3	1200	(3) 4-600K CMIL	1 #3/0	3-1/2"	MDP 2026 STORAGE RM 037	111.7	0.0	***	***	***	***	XXX BUSS TAP XXX	X	X	X	X	X	X
							***	***	109.1	0.0	***	***							
							***	***	***	***	97.8	0.0							
							560.7		542.8		542.3								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				1645.73								
							TOTAL KVA DEMAND:				987.44								
							TOTAL AMPERAGE DEMAND:				2740.85								

*SEE ONE-LINE ON DRAWING E-500 FOR MORE INFORMATION

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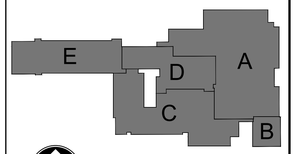

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:
PANEL SCHDULES CONTINUED

DRAWN BY:	CHECKED BY:
MLT / TBH	LKN
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

E-502

CAD FILE: 5005-E501 & E502.DWG PLOT DATE: 11/10/2025

EXISTING PANEL BOARDSCHEDULE

PANEL			MAINS (A):	225	VOLTAGE:	208	120	3Ø	4W	LOCATION:	STOR. B-013				SINGLE	x
DP-27			O.C. DEVICE:	MLO	MIN. O.C:	EXISTING				FED BY:	MDP-55				DOUBLE	
			TYPE:	DISTRIBUTION	A.I.C:	EXISTING				MOUNTING:	SURFACE				COM. COVER	

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	P	CKT
1	1	20	4#12	#12	1 1/2"	EXISTING LOAD	0.7	3.4	***	***	***	***	3RD FLOOR PANEL	-	-	-	30	2	2
3	1	20	-	-	-	EXISTING LOAD	***	***	0.7	3.4	***	***							4
5	1	20	-	-	-	STORAGE LIGHTS	***	***	***	***	0.7	0.7	ELEVATOR	-	-	-	20	1	6
7	1	20	-	-	-	EXISTING LOAD	0.7	0.7	***	***	***	***	HALL LIGHTS	-	-	-	20	1	8
9	1	20	-	-	-	COPIER OUTLET	***	***	0.7	0.7	***	***	HTR BASEMENT UH7 (OFFICE)	-	-	-	20	1	10
11	1	20	-	-	-	OUTLETS METAL BENCH	***	***	***	***	0.7	0.7	EXISTING LOAD	-	-	-	20	1	12
13	3	60	-	-	-	PANEL P5 OFFICE STOR. 150A	8.0	0.7	***	***	***	***	EXISTING LOAD	-	-	-	20	1	14
15							***	***	9.0	0.7	***	***	EXISTING LOAD	-	-	-	20	1	16
17							***	***	***	***	5.0	0.7	EXISTING LOAD	-	-	-	20	1	18
19	1	20	-	-	-	SPARE	0.0	3.0	***	***	***	***	DRYER	-	-	-	30	2	20
21	2	50	-	-	-	FORKLIFT - 3RD FLOOR	***	***	6.0	3.0	***	***							22
23							***	***	***	***	6.0	1.5	DUST COLLECTOR - B08	3/4"	#12	2#12	20	1	24*
25	3	30	-	-	-	UH-1	2.0	0.7	***	***	***	***	OVERHEAD DOOR STOR. RM 034	1-1/2"	#12	4#12	20	3	26**
27							***	***	2.0	0.7	***	***							28**
29							***	***	***	***	2.0	0.7							30**
31	3	50	-	-	-	PANEL DP-27A CUST. WOODSHOP B08	6.0	1.0	***	***	***	***	ATC-3 (STOR 034A)	3/4"	#12	2#12	20	1	32
33							***	***	4.5	0.4	***	***	EF-4 (AIR COMPRESSOR RM)	3/4"	#12	2#12	15	1	34
35							***	***	***	***	5.5	0.0	SPACE	-	-	-	-	-	36
37	1	20	-	-	-	EXISTING LOAD	0.0	0.0	***	***	***	***	SPACE	-	-	-	-	-	38
39	1	20	-	-	-	EXISTING LOAD	***	***	0.0	0.0	***	***	SPACE	-	-	-	-	-	40
41	1	20	-	-	-	EXISTING LOAD	***	***	***	***	0.0	0.0	SPACE	-	-	-	-	-	42
							26.91		31.85		24.21								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				82.97								
							TOTAL KVA DEMAND:				58.08								
							TOTAL AMPERAGE DEMAND:				161.21								

*ADD A 20A-1P BREAKER FOR NEW DUST COLLECTOR.
** ADD 20A-3P BREAKER FOR NEW SHOP DOOR.

EXISTING PANELBOARD SCHEDULE

DESIGNATION			MAINS (A):	800	VOLTAGE:	208	120	3Ø	4W	LOCATION:	PENTHOUSE				SINGLE	x
PENTHOUSE			O.C. DEVICE:	MLO	MIN. O.C:	---				FED BY:	MDP 100				DOUBLE	
			TYPE:	HVAC	A.I.C:	---				MOUNTING:	FLOOR				COM. COVER	

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	PO	CKT
1	3	90	-	-	-	AHU-3 RETURN 7.5 HP	2.1	3.9	***	***	***	***	AHU-2 RETURN 10 HP	-	-	-	60	3	2
							***	***	2.1	3.9	***	***							
							***	***	***	***	2.1	3.9							
3	3	90	-	-	-	AHU-1 SUPPLY 20 HP	7.1	7.1	***	***	***	***	AHU-2 SUPPLY 20 HP	-	-	-	90	3	4
							***	***	7.1	7.1	***	***							
							***	***	***	***	7.1	7.1							
5	3	100	-	-	-	AHU-1A 15 HP	5.5	11.1	***	***	***	***	AHU-3 SUPPLY 30 HP	-	-	-	100	3	6
							***	***	5.5	11.1	***	***							
							***	***	***	***	5.5	11.1							
*7	3	90	4#2	#8	1-1/2"	CHILLED WATER PUMP - 3 (PRIMARY) 20 HP	5.8	0.0	***	***	***	***	CHILLED WATER PUMP - 4 (STANDBY) 20 HP	1-1/2"	#8	4#2	90	3	8*
							***	***	5.8	0.0	***	***							
							***	***	***	***	5.8	0.0							
9	3	250	4# 4/0	#4	2-1/2"	PDU-1	14.6	0.0	***	***	***	***	SPACE	-	-	-	-	3	10
							***	***	14.6	0.0	***	***							
							***	***	***	***	14.6	0.0							
11	2	30	-	-	-	LOADCENTER PANEL PENTHOUSE	4.0	1.3	***	***	***	***	GYLCOL PUMP	-	-	-	20	3	12
							***	***	4.0	1.3	***	***							
							***	***	***	***	X	1.3							
							62.5		62.5		58.5								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				183.62								
							TOTAL KVA DEMAND:				128.54								
							TOTAL AMPERAGE DEMAND:				356.78								

* (ADD ALTERNATE:) REPLACE EXISTING 60A BREAKERS AND WIRING WITH NEW 90A 4#2 & 8G AND 1-1/2"C BETWEEN PENTHOUSE DP AND PUMPS.
*REPLACE EXISTING 200A BREAKER FOR NEW 250A BREAKER, RUN NEW WIRE.

EXISTING PANELBOARD SCHEDULE

PANEL			MAINS (A):	225	VOLTAGE:	208	120	3Ø	4W	LOCATION:	STOR. 168				SINGLE	x
L1			O.C. DEVICE:	MCB	MIN. O.C:	---				FED BY:	-				DOUBLE	
			TYPE:	APPLIANCE	A.I.C:	---				MOUNTING:	SURFACE				COM. COVER	

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	P	CKT
X	3	225	-	-	-	MAIN BREAKER	***	***	***	***	***	***	XXX SINGLE BREAKER XXX	X	X	X	X	X	X
X							***	***	***	***	***	***							X
X							***	***	***	***	***	***							X
1	1	20	-	-	-	JONSON CNTL PANEL THIS RM	1.0	1.0	***	***	***	***	POOL LTGS SWITCH	-	-	-	20	1	2
3	2	20	-	-	-	220 HAIR DRYER GIRLS LOCKER RM	***	***	1.0	1.0	***	***	CUH-3,4 LOCKER RMS 167/169	-	-	-	20	1	4
5							***	***	***	***	1.0	0.0	SPARE	-	-	-	20	1	6
7	2	20	-	-	-	HAIR DRYER GIRLS LOCKER	1.0	0.0	***	***	***	***	SPARE	-	-	-	20	2	8
9							***	***	1.0	0.0	***	***							10
11	2	20	-	-	-	HAIR DRYER GIRLS LOCKER	***	***	***	***	1.0	0.0	SPARE	-	-	-	20	2	12
13							1.0	0.0	***	***	***	***							14
15	2	20	-	-	-	HAIR DRYER GIRLS LOCKER	***	***	1.0	0.0	***	***	SPARE	-	-	-	30	1	16
17							***	***	***	***	1.0	0.2	MAINT. REC&LTG - RTU2	3/4"	#12	2#12	20	1	18
19	2	20	-	-	-	SPARE	0.0	0.2	***	***	***	***	MAINT REC&LTG - ERU2	3/4"	#12	2#12	20	1	20
21							***	***	0.0	0.2	***	***	MAINT REC&LTG - ERU1	3/4"	#12	2#12	20	1	22
23	1	20	-	-	-	LAUNDRY RM LTGS	***	***	***	***	1.0	0.2	MAINT REC - CU-5	3/4"	#12	2#12	20	1	24
25	1	20	-	-	-	ROOF LTGS "D" BLDG	1.0	0.2	***	***	***	***	MAINT REC - CU-4	3/4"	#12	2#12	20	1	26
27	1	20	-	-	-	STAIRWELL LTGS	***	***	1.0	1.0	***	***	POOL LTGS NORTH	-	-	-	20	1	28
29	1	20	-	-	-	POOL LTGS SOUTH	***	***	***	***	1.0	1.0	OLD CORR. LTGS	-	-	-	20	1	30
31	1	20	-	-	-	POOL LTGS SOUTH	1.0	1.0	***	***	***	***	OLD CORR. LTGS	-	-	-	20	1	32
33	1	20	-	-	-	SPARE	***	***	0.0	0.0	***	***	SPACE	-	-	-	20	1	34
35	1	20	-	-	-	EXISTING LOAD	***	***	***	***	1.0	0.0	SPACE	-	-	-	20	1	36
37	1	-	-	-	-	SPACE	0.0	0.0	***	***	***	***	SPACE	-	-	-	20	1	38
39	1	-	-	-	-	SPACE	***	***	0.0	0.0	***	***	SPACE	-	-	-	20	1	40
41	1	-	-	-	-	SPACE	***	***	***	***	0.0	0.0	SPACE	-	-	-	20	1	42
							7.40		6.20		7.40								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				21.00								
							TOTAL KVA DEMAND:				14.70								
							TOTAL AMPERAGE DEMAND:				40.80								

NEW PANELBOARD SCHEDULE

PANEL			MAINS (A):	225	VOLTAGE:	208	120	3Ø	4W	LOCATION:	IT RM 138				SINGLE	x
CP-IT			O.C. DEVICE:	C.B. & SURGE	MIN. O.C:	---				FED BY:	MDP-55 (BKR 10)				DOUBLE	
			TYPE:	COMPUTER	A.I.C:	---				MOUNTING:	FLUSH				COM. COVER	

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	P	CKT
1	1	20	2#12	#12	3/4"	IT LIGHTING	1.2	1.0	***	***	***	***	RECS - IT S. COUNTER (W.)	3/4"	#12	2#12	20	1	2
3	1	20	2#12	#12	3/4"	RECS - IT E. WALL/CLOSET/TV	***	***	0.7	1.1	***	***	RECS-IT S.COUNTER (W CENT)	3/4"	#12	2#12	20	1	4
5	1	20	2#12	#12	3/4"	RECS - STUDENT AREA	***	***	***	***	0.7	1.1	RECS - IT S. COUNTER (E CEN)	3/4"	#12	2#12	20	1	6
7	1	20	2#12	#12	3/4"	RECS- IT IPAD CHARGERS	0.7	1.1	***	***	***	***	RECS - IT S. COUTNER (E.)	3/4"	#12	2#12	20	1	8
9	1	20	2#12	#12	3/4"	RECS - N.E. DESK	***	***	0.7	0.7	***	***	RECS - N.W. DESK	3/4"	#12	2#12	20	1	10
11	1	20	2#12	#12	3/4"	RECS - S.E. DESK	***	***	***	***	0.7	0.7	RECS - W. CENTER DESK	3/4"	#12	2#12	20	1	12
13	1	20	2#12	#12	3/4"	IT MICROWAVE	1.6	0.7	***	***	***	***	RECS - S.W. DESK	3/4"	#12	2#12	20	1	14
15	1	20	2#12	#12	3/4"	IT COFFEE POT	***	***	1.6	0.7	***	***	SPARE	-	-	-	20	1	16
17	1	20	2#12	#12	3/4"	RECS - RM 128 S.W. TRIO	***	***	***	***	1.2	1.2	RECS - RM 128 N.W. TRIO	3/4"	#12	2#12	20	1	18
19	1	20	2#12	#12	3/4"	RECS - RM 128 S. CEN. TRIO	1.2	1.2	***	***	***	***	RECS - RM 128 N. CEN. TRIO	3/4"	#12	2#12	20	1	20
21	1	20	2#12	#12	3/4"	RECS - RM 128 S.E. TRIO	***	***	1.4	1.4	***	***	RECS - RM 128 N.E. TRIO	3/4"	#12	2#12	20	1	22
23	1	20	2#12	#12	3/4"	RECS - RM 128 TEACH QUAD	***	***	***	***	0.7	1.0	IT PRINTER	3/4"	#12	2#12	20	1	24
25	1	21	2#12	#12	3/4"	REC - IT FRIDGE	1.0	1.0	***	***	***	***	REC - IT WATER COOLER	3/4"	#12	2#12	20	1	26
27	1	20	2#12	#12	3/4"	MAINT. REC - CU-3	***	***	0.2	0.0	***	***	PLUGMOLD N.	3/4"	#12	2#12	20	1	28
29	1	20	2#12	#12	3/4"	MAINT. REC - CU-2	***	***	***	***	0.2	0.0	PLUGMOLD S.	3/4"	#12	2#12	20	1	30
31	1	20	-	-	-	SPARE	0.0	0.0	***	***	***	***	SPACE	-	-	-	-	1	32
33	1	-	-	-	-	SPACE	***	***	0.0	0.0	***	***	SPACE	-	-	-	-	1	34
35	1	-	-	-	-	SPACE	***	***	***	***	0.0	1.8	CU-2 (E-SPORTS RM)	3/4"	#10	3#10	40	2	36
37	1	-	-	-	-	SPACE	0.0	1.8	***	***	***	***							38
39	2	60	3#8	#10	3/4"	CU-1 (IT OFFICE)	***	***	2.8	2.8	***	***	CU-3 (IT SERVER RM)	3/4"	#10	3#8	60	2	40
41							***	***	***	***	2.8	2.8							42
							12.56		14.20		15.02								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				41.78								
							TOTAL KVA DEMAND:				29.25								
							TOTAL AMPERAGE DEMAND:				81.18								

EXISTING PANELBOARD SCHEDULE

PANEL			MAINS (A):	150	VOLTAGE:	208	120	3Ø	4W	LOCATION:	POOL MAINTENANCE RM				SINGLE	x
PS			O.C. DEVICE:	MLO	MIN. O.C:	EXISTING				FED BY:	DP-55 (KITCHEN)				DOUBLE	
			TYPE:	APPLIANCE	A.I.C:	EXISTING				MOUNTING:	SURFACE				COM. COVER	

CKT	POLE	T	W	G	C	LOAD	KVA ØA		KVA ØB		KVA ØC		LOAD	C	G	W	T	P	CKT
1	1	20	2#12	#12	1 1/2"	HEAT. EXCHANGE. CIRC. PUMP	1.0	1.0	***	***	***	***	COMPRESSOR REC	1 1/2"	#12	4#12	20	1	2
3	1	20	-	-	-	FILTER	***	***	1.0	1.0	***	***	FLOW MONITOR REC.	-	-	-	20	1	4
5	1	20	-	-	-	REC @ DEHUMIDIFER	***	***	***	***	1.0	1.0	EXISTING LOAD	-	-	-	20	1	6
7	1	20	-	-	-	REC BY DESK	1.0	1.0	***	***	***	***	CONVENIENCE REC	-	-	-	20	1	8
9	1	20	-	-	-	CONVENIENCE REC THIS WALL	***	***	1.0	1.0	***	***	POOL RM LIGHTS	-	-	-	20	1	10
11	1	20	-	-	-	SPARE	***	***	***	***	0.0	1.0	POOL RM CONTROLS	-	-	-	20	1	12
*13	3	30	3#10	#10	3/4"	DEHUMIDIFIER	1.1	3.6	***	***	***	***	WEG CONTROLLER / VFD FILTER PUMP	-	-	-	50	3	14
*15							***	***	1.1	3.6	***	***							16
*17							***	***	***	***	1.1	3.6							18
19	3	30	-	-	-	SPARE	0.0	1.1	***	***	***	***	PUMP 3 RECIRC. PUMP	-	-	-	15	3	20
21							***	***	0.0	1.1	***	***							22
23							***	***	***	***	0.0	1.1							24
25	3	20	-	-	-	SPARE	0.0	0.0	***	***	***	***	SPARE	-	-	-	20	2	26
27							***	***	0.0	0.0	***	***							28
29							***	***	***	***	0.0	1.0	CHOLRINE BOOSTER PUMP	-	-	-	20	1	30
31	3	15	-	-	-	SPARE	0.0	1.0	***	***	***	***	ATC-1	3/4"	#12	2#12	20	1	32**
33							***	***	0.0	0.0	***	***	SPARE	-	-	-	20	1	34
35							***	***	***	***	0.0	0.0	SPARE	-	-	-	20	1	36
37	3	20	-	-	-	SPARE	0.0	0.0	***	***	***	***	SPARE				15	3	38
39							***	***	0.0	0.0	***	***							40
41							***	***	***	***	0.0	0.0							42
							10.78		9.78		9.78								
							Total KVA ØA		Total KVA ØB		Total KVA ØC								
							TOTAL KVA THIS PANEL:				30.34								
							TOTAL KVA DEMAND:				21.24								
							TOTAL AMPERAGE DEMAND:				58.95								

*E.C. TO CLEAN, TEST, AND INSPECT WIRING AND BREAKER FOR ADEQUACY IN PREPERATION FOR REPLACEMENT DEVICE.
**REUSE EXISTING 20A-1P BRAEKER FOR NEW DEVICE.

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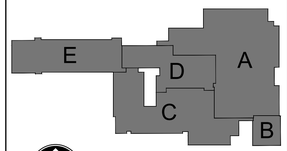

KEY PLAN

BID DOCUMENTS
SED # 08-01-01-04-0-001-019

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PROJECT TITLE:

Afton Central School District
29 Academy St, Afton, NY 13730

2024 Capital Project
Phase 1

SEALS:

DRAWING TITLE:

PANEL SCHEDULES CONTINUED

DRAWN BY:	CHECKED BY:
MLT / TBH	LKN
DATE:	PROJECT NO:
11/10/2025	2025-005

DRAWING NO:

E-503

CAD FILE: 5005-ES01 & ES02.DWG PLOT DATE: 11/10/2025