FLOYD COUNTY BOARD OF EDUCATION
Tonya Horne-Williams, Superintendent
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Eastern, KY 41622
Telephone (606) 886-2354 Fax (606) 886-4550
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William Newsome, Jr., Board Chair - District 3
Linda C. Gearheart, Vice-Chair - District 1
Dr. Chandra Varia, Member- District 2
Keith Smallwood, Member - District 4
Steve Slone, Member - District 5

Consent Agenda Item (Action Item): Consider/Approve construction documents and permission to advertise for bid on the Duff Allen Central Renovation Project.

Applicable State or Regulations: Capital Construction Process 702 KAR 4:180.

Fiscal/Budgetary Impact: The initial BG-1 cost $10,975,500.

History/Background:
February 26, 2024
Board selected Codell Construction for the CM and Summit Architects for the architect on the project. (Order# 20455 & 20456)
March 25, 2024
Board approved Initial BG-1 for the project. (Order# 20468)

Recommended Action: To approve the construction documents and advertise for bid.

Contact Person(s): Linda Hackworth, 606-874-9569

Linda Hackworth
Director

Tonya Horne-Williams
Superintendent

Date: April 24, 2025

The Floyd County Board of Education does not discriminate on the basis of race, color, national origin, age, religion, marital status, sex, or disability in employment, educational programs, or activities as set forth in Title IX & VI, and in Section 504.

Order #20453 - Motion Passed: passed with a motion by Mr. Keith Smallwood and a second by Dr. Chandra Varia.

5 Yeas - 0 Nays

Ms. Linda Gearheart	Yes
Mr. William Newsome	Yes
Dr. Chandra Varia	Yes
Mr. Steve Slone	Yes
Mr. Keith Smallwood	Yes

1. Actions Taken

2. Requests for Leaves of Absences

D. Consider/Approve bid(s) on surplus scoreboard located at Betsy Layne Elementary

Order #20454 - Motion Passed: Approval of bid(s) on surplus scoreboard located at Betsy Layne Elementaryby Whayne ($150) passed with a motion by Mr. Keith Smallwood and a second by Mr. Steve Slone.

5 Yeas - 0 Nays

Ms. Linda Gearheart	Yes
Mr. William Newsome	Yes
Dr. Chandra Varia	Yes
Mr. Steve Slone	Yes
Mr. Keith Smallwood	Yes

E. *Consider/Approve selecting a CM for Construction Management Services for the renovation of Duff-Allen Central Elementary

Order #20455 - Motion Passed: Approval of selecting a CM for Construction Management Services for the renovation of Duff-Allen Central Elementary passed with a motion by Mr. Keith Smallwood and a second by Mr. Steve Slone.

3 Yeas - 1 Nays - 1 Abstained

Ms. Linda Gearheart	Abstain
Mr. William Newsome	Yes
Dr. Chandra Varia	No
Mr. Steve Slone	Yes
Mr. Keith Smallwood	Yes

F. *Consider/Approve selecting an Architect for Architectural Services for the renovation of Duff-Allen Central Elementary

Order #20456 - Motion Passed: Approval of selecting an Architect for Architectural Services for the renovation of Duff-Allen Central Elementary passed with a motion by Mr. Keith Smallwood and a second by Mr. Steve Slone.

5 Yeas - 0 Nays

Ms. Linda Gearheart	Yes
Mr. William Newsome	Yes
Dr. Chandra Varia	Yes
Mr. Steve Slone	Yes
Mr. Keith Smallwood	Yes

6. Action by Consent

Order #20457 - Motion Passed: Motion to approve all consent items as presented passed with a motion by Mr. Steve Slone and a second by Mr. Keith Smallwood.

5 Yeas - 0 Nays

Ms. Linda Gearheart	Yes
Mr. William Newsome	Yes
Dr. Chandra Varia	Yes
Mr. Steve Slone	Yes
Mr. Keith Smallwood	Yes

A. Consider Approval of Minutes

B. *Consider Payment of Bills and Claims

C. Consider/Approve Superintendent Timesheet, Travel and Expenses

D. Consider/Approve School Calendar Committee for school year 24-25

E. Consider/Approve Lease Agreement for two (2) Chevrolet Silverado 1500 Trucks

F. Consider/Approve the Family Resource Youth Services Centers Contract

G. Consider/Approve Lease agreement with Superior Office Service, INC for a Risograph at Betsy Layne Elementary

H. Consider/Approve the clinical experiences collaborative partnership agreement between the Floyd County Board of Education and Valdosta University

I. Consider/Approve the Comprehensive School Improvement Plans (CSIP) for Floyd County Schools, Floyd Central High School, J.D. Adams Middle School, and Prestonsburg Elementary School, who have been placed in Targeted Support and Improvement (TSI) status as required by the Kentucky Department of Education

J. Consider/Approve the Floyd County School District Consolidated Improvement Plan (CDIP) for school year 2023-2024 as required by the Kentucky Department of Education

K. Consider/Approve permission for Prestonsburg High School National Honor Society students to travel to the Biltmore Mansion on Saturday, April 27th, 2024 for academic enrichment activities

L. Consider/Approve permission for Prestonsburg High School seniors to travel to Pigeon Forge, TN on April 4th, 2024 and return on April 5, 2024

M. Consider/Approve out of state travel on Thursday, June 6th through June 8th to Pigeon Forge, Tennessee via Floyd County School Transportation for the members of the Beta Club and Academic Team at May Valley Elementary

N. Consider/Approve the agreement for eFMLA Services for the period of 4/30/24-4/30/25

O. *Consider/Approve the Young Athletes Program use of Betsy Layne High School for Special Olympics, ages 2-7, to develop motor skills and social emotional learning for kids in an all-inclusive sport & play program

P. *Consider/Approve agreement between the Floyd County Board of Education and McGraw Hill for high school Science curriculum, teacher and student resources, and digital resources for all Grades 9-12 students

Mr. William Newsome	Yes
Dr. Chandra Varia	Absent
Mr. Steve Slone	Yes
Mr. Keith Smallwood	Yes

G. Consider/Approve Initial BG-1 for the DACE Renovation project, pending KDE approval

Order #20468 - Motion Passed: Approval of Initial BG-1 for the DACE Renovation project, pending KDE approval passed with a motion by Mr. Steve Slone and a second by Mr. Keith Smallwood.

4 Yeas - 0 Nays

Ms. Linda Gearheart	Yes
Mr. William Newsome	Yes
Dr. Chandra Varia	Absent
Mr. Steve Slone	Yes
Mr. Keith Smallwood	Yes

H. Consider/Approve contract with Codell Construction for Construction Management for the renovation of Duff Allen Central Elementary

Order #20469 - Motion Passed: Approval of contract with Codell Construction for Construction Management for the renovation of Duff Allen Central Elementary passed with a motion by Mr. Steve Slone and a second by Mr. Keith Smallwood.

4 Yeas - 0 Nays

Ms. Linda Gearheart	Yes
Mr. William Newsome	Yes
Dr. Chandra Varia	Absent
Mr. Steve Slone	Yes
Mr. Keith Smallwood	Yes

I. Consider/Approve change Order #2 with Dixie Roofing for the Betsy Layne Elementary Roof project, pending KDE approval

Order #20470 - Motion Passed: Approval of change Order #2 with Dixie Roofing for the Betsy Layne Elementary Roof project, pending KDE approval passed with a motion by Mr. Steve Slone and a second by Mr. Keith Smallwood.

4 Yeas - 0 Nays

Ms. Linda Gearheart	Yes
Mr. William Newsome	Yes
Dr. Chandra Varia	Absent
Mr. Steve Slone	Yes
Mr. Keith Smallwood	Yes

FIRE SUPPRESSION AND PLUMBING INDEX

SECTION NUMBER
DIVISION 21 – FIRE SUPPRESSION

21 05 48 VIBRATION AND SEISMIC CONTROLS FOR FIRE-SUPPRESSION PIPING AND EQUIPMENT

21 22 00 CLEAN AGENT FIRE SUPPRESSION SYSTEM

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MECHANICAL INDEX

SECTION NUMBER
DIVISION 23 – HEATING, VENTILATING AND AIR CONDITIONING

23 01 00	GENERAL PROVISIONS FOR MECHANICAL
23 01 30.51	HVAC AIR DISTRIBUTION SYSTEM CLEANING
23 05 17	SLEEVING, CUTTING, PATCHING AND REPAIRING FOR MECHANICAL
23 05 29	HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT
23 05 30	METAL FABRICATIONS AND STRUCTURAL STEEL
23 05 48	VIBRATION AND SEISMIC CONTROLS FOR HVAC
23 05 53	IDENTIFICATION OF HVAC PIPING AND EQUIPMENT
23 05 93	TESTING, ADJUSTING, AND BALANCING FOR HVAC
23 06 00	MECHANICAL SYSTEMS DEMONSTRATION AND TRAINING
23 07 19	HVAC PIPING INSULATION
23 08 00	COMMISSIONING OF HVAC
23 09 00	INSTRUMENTATION AND CONTROLS FOR HVAC
23 09 33	ADJUSTABLE FREQUENCY DRIVES FOR HVAC
23 21 13	HYDRONIC PIPING AND VALVES
23 21 16	HYDRONIC PIPING SPECIALTIES
23 21 23	HYDRONIC PUMPS
23 25 00	HVAC SYSTEM WATER TREATMENT
23 31 13	DUCTWORK AND DUCTWORK INSULATION
23 33 00	DUCTWORK ACCESSORIES
23 34 23	POWER VENTILATORS
23 36 00	AIR TERMINAL UNITS
23 37 13	AIR DISTRIBUTION DEVICES
23 38 13	COMMERCIAL KITCHEN HOOD SYSTEM
23 41 00	PARTICULATE AIR FILTRATION
23 52 16	CONDENSING BOILERS
23 72 23	AIR-T0-AIR ENERGY RECOVERY EQUIPMENT
23 81 46	WATER SOURCE UNITARY HEAT PUMPS

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ELECTRICAL INDEX

SECTION NUMBER

DIVISION 26 – ELECTRICAL

26 05 00 GENERAL REQUIREMENTS
26 05 05 PENETRATION FIRESTOPPING
26 05 26 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
26 05 29 HANGERS AND SUPPORTS
26 05 33 RACEWAYS, BOXES, POWER CONDUCTORS AND CABLES
26 05 53 IDENTIFICATION
26 24 13 SWITCHBOARDS
26 24 16 PANELBOARDS
26 27 26 WIRING DEVICES
26 28 16 ENCLOSED SWITCHES AND CIRCUIT BREAKERS
26 29 13 ENCLOSED CONTROLLERS

DIVISION 27 – COMMUNICATIONS

27 11 00 COMMUNICATIONS EQUIPMENT ROOM
27 13 00 COMMUNICATIONS BACKBONE CABLING
27 15 00 COMMUNICATIONS HORIZONTAL CABLING
27 51 23 INTERCOM AND CLOCK SYSTEM
27 60 00 SOUND SYSTEMS
27 70 00 AUDIO/VISUAL SYSTEMS

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

28 13 00 SECURE ENTRY SYSTEM
28 14 00 ACCESS CONTROL SYSTEM
28 31 11 DIGITAL, ADDRESSABLE VOICE EVACUATION TYPE FIRE ALARM

Draft Only

PROJECT:

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

183 REBEL LN
EASTERN, KY 41622

1 / G00 KY MAP
1" = 1'-0"

INDEX OF DRAWINGS:

	COVER SHEET
D100	ROOF DEMOLITION PLAN
D101	DEMOLITION FIRST FLOOR CEILING PLAN
D200	DEMOLITION PHOTO REFERENCE
D201	DEMOLITION PHOTO REFERENCE
D202	DEMOLITION PHOTO REFERENCE
G001	GENERAL NOTES AND CODE EVALUATION
G002	ADA REFERENCE
SP101	SITE PLAN
A101	FIRST FLOOR PLAN
A102	SECOND FLOOR PLAN
A103	FIRST FLOOR REFLECTED CEILING PLAN
A104	FIRST FLOOR REFLECTED CEILING ENLARGED PLANS
A105	ROOF PLAN
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A107	ROOF ENLARGED PLAN 2
A200	EXTERIOR ELEVATIONS / ELEVATION DETAILS
A300	BUILDING SECTIONS / COLUMN SECTIONS
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A401	ROOF DETAILS
A402	COLUMN DETAILS
A403	GYMNASIUM PLAN DEMOLITION / NEW
A404	MISCELLANEOUS DETAILS
FPD101	FIRST FLOOR - FIRE PROTECTION DEMOLITION
FPD102	SECOND FLOOR - FIRE PROTECTION DEMOLITION
FP101	FIRST FLOOR - FIRE PROTECTION
FP102	SECOND FLOOR - FIRE PROTECTION
M001	MECHANICAL GENERAL NOTES & LEGEND
MD001	OVERALL FIRST FLOOR - MECHANICAL DEMOLITION
MD002	OVERALL SECOND FLOOR - MECHANICAL DEMOLITION
MD101	PARTIAL FIRST FLOOR - MECHANICAL DEMOLITION
MD102	PARTIAL FIRST FLOOR - MECHANICAL DEMOLITION
MD103	SECOND FLOOR - MECHANICAL DEMOLITION
MD104	ROOF - MECHANICAL DEMOLITION
M002	OVERALL FIRST FLOOR - MECHANICAL
M003	OVERALL SECOND FLOOR - MECHANICAL
M101	PARTIAL FIRST FLOOR - HVAC
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M103	SECOND FLOOR - HVAC
M104	ROOF - HVAC
M201	PARTIAL FIRST FLOOR - MECHANICAL PIPING
M202	PARTIAL FIRST FLOOR - MECHANICAL PIPING
M203	SECOND FLOOR - MECHANICAL PIPING
M301	ENLARGED MECHANICAL ROOM
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PD101	FIRST FLOOR - PLUMBING DEMO
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E001	ELECTRICAL LEGEND AND GENERAL NOTES
ED101	FIRST FLOOR - AREA A & B - ELECTRICAL DEMO
ED102	FIRST FLOOR - AREA C - ELECTRICAL DEMO
ED103	FIRST FLOOR - AREA D - ELECTRICAL DEMO
ED104	SECOND FLOOR - ELECTRICAL DEMO
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E201	FIRST FLOOR - AREA A & B - ELECTRICAL POWER
E202	FIRST FLOOR - AREA C - ELECTRICAL POWER
E203	SECOND FLOOR - ELECTRICAL POWER
E204	ROOF - ELECTRICAL POWER
E301	FIRST FLOOR - AREA A & B - ELECTRICAL SYSTEMS
E302	FIRST FLOOR - AREA C - ELECTRICAL SYSTEMS
E303	FIRST FLOOR - AREA D - ELECTRICAL SYSTEMS
E304	SECOND FLOOR - ELECTRICAL SYSTEMS
E501	ELECTRICAL DETAILS
E502	ELECTRICAL DETAILS
E601	ELECTRICAL SCHEDULES

KEVIN K. GILLIAM
LICENSED
ARCHITECT

PROJECT TEAM

ARCHITECT / CIVIL ENGINEER	STRUCTURAL ENGINEER	MEP ENGINEER				OWNER	VICINITY MAP
SUMMIT ARCHITECTS+ENGINEERS 3205 Summit Square Place, Lexington, KY 40509, 859-264-0660 100 Lewis Branch, Pikeville, KY 41501, 606-432-1447 300 Technology Drive, Charleston, WV 25305, 304-744-6410 summit-ae.com		MECHANICAL ENGINEER: SHROUT TATE WILSON CONSULTING ENGINEERS 628 WINCHESTER ROAD LEXINGTON, KY 40505 PHONE: (859) 277-8177				FLOYD COUNTY BOARD OF EDUCATION 442 KY ROUTE 550 EASTERN, KY 41622 PHONE: (606) 886-2354	

SITE PLAN GENERAL NOTES

A. ALL COMMUNICATION FROM THE CONTRACTOR AND TO THE CONTRACTOR SHALL BE THROUGH THE OWNER'S SITE REPRESENTATIVE.

B. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL SELECT THE MEANS, METHODS, SEQUENCES, AND TECHNIQUES OF CONSTRUCTION, HE DEEMS APPROPRIATE, FOR ACCOMPLISHING THE WORK IN A SAFE MANNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO PERSONS AND PROPERTY RESULTING FROM HIS ACTIVITIES.

C. IN OCCUPYING THE SITE AND COMMENCING WORK IN ACCORDANCE WITH THIS NOTICE TO PROCEED, THE CONTRACTOR ASSUMES TOTAL AND COMPLETE RESPONSIBILITY FOR THE WORK UNTIL FINAL PAYMENT AND RELEASE OF CLAIMS. ANY PORTION OF THE WORK DAMAGED IN THIS TIME PERIOD SHALL BE CORRECTED, REPAIRED, OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

D. THE ENGINEER, HIS REPRESENTATIVES, AND REPRESENTATIVES OF THE OWNER SHALL HAVE FULL ACCESS TO THE WORK AT ALL TIMES.

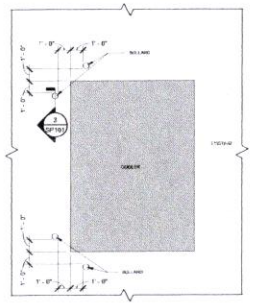
E. THE CONTRACTOR SHALL CONDUCT HIS WORK IN AN ENVIRONMENTALLY SOUND MANNER AND SHALL UTILIZE "BEST MANAGEMENT PRACTICES" TO MINIMIZE EROSION. THE CONTRACTOR SHALL HOLD HARMLESS THE OWNER FROM ANY VIOLATIONS ASSOCIATED WITH THE CLEAN WATER ACT.

F. THE CONTRACTOR SHALL MAINTAIN DRAINAGE OF THE SITE DURING ALL PHASES OF CONSTRUCTION. THE OWNER MAY DIRECT THE CONTRACTOR TO CONSTRUCT DITCHES OR BERMS TO ALLEVIATE SITE DRAINAGE PROBLEMS. CONSTRUCTION AND MAINTENANCE OF MINOR DRAINAGE WORKS SHALL BE CONSIDERED AN INTEGRAL PART OF THE OVERALL ACCOMPLISHMENT OF THE PROJECT AND SHALL NOT BE MEASURED FOR SEPARATE PAYMENT.

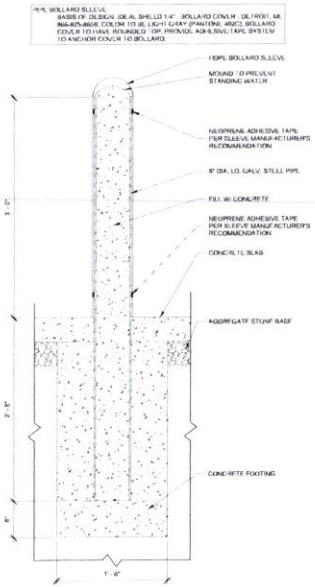
G. THE CONTRACTOR SHALL REPLACE EXISTING RETAINING WALLS, CATCH BASINS, DITCHES, ETC. THAT ARE DAMAGED BY CONSTRUCTION UNLESS SAID FACILITIES ARE SPECIFICALLY SHOWN TO BE REMOVED. IN PARTICULAR, ALL DRAINAGE DITCHES SHALL BE RESTORED TO A CONDITION EQUAL OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION, UNLESS SAID FACILITY REPLACEMENT IS IDENTIFIED AS A PAY ITEM IN THE DESIGN DRAWINGS OR TECHNICAL SPECIFICATIONS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE WORK AND SHALL NOT BE MEASURED FOR PAYMENT.

H. ALL GUARDRAIL, SIGNS, FENCES, ETC. DAMAGED AS A RESULT OF THE CONSTRUCTION SHALL BE RESTORED IN LIKE KIND AND CHARACTER TO THE SATISFACTION OF THE OWNER, UNLESS SAID REPLACEMENT IS IDENTIFIED AS A PAY ITEM IN THE DESIGN DRAWINGS OR TECHNICAL SPECIFICATIONS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO SITE PREPARATION AND SHALL NOT BE MEASURED FOR PAYMENT.

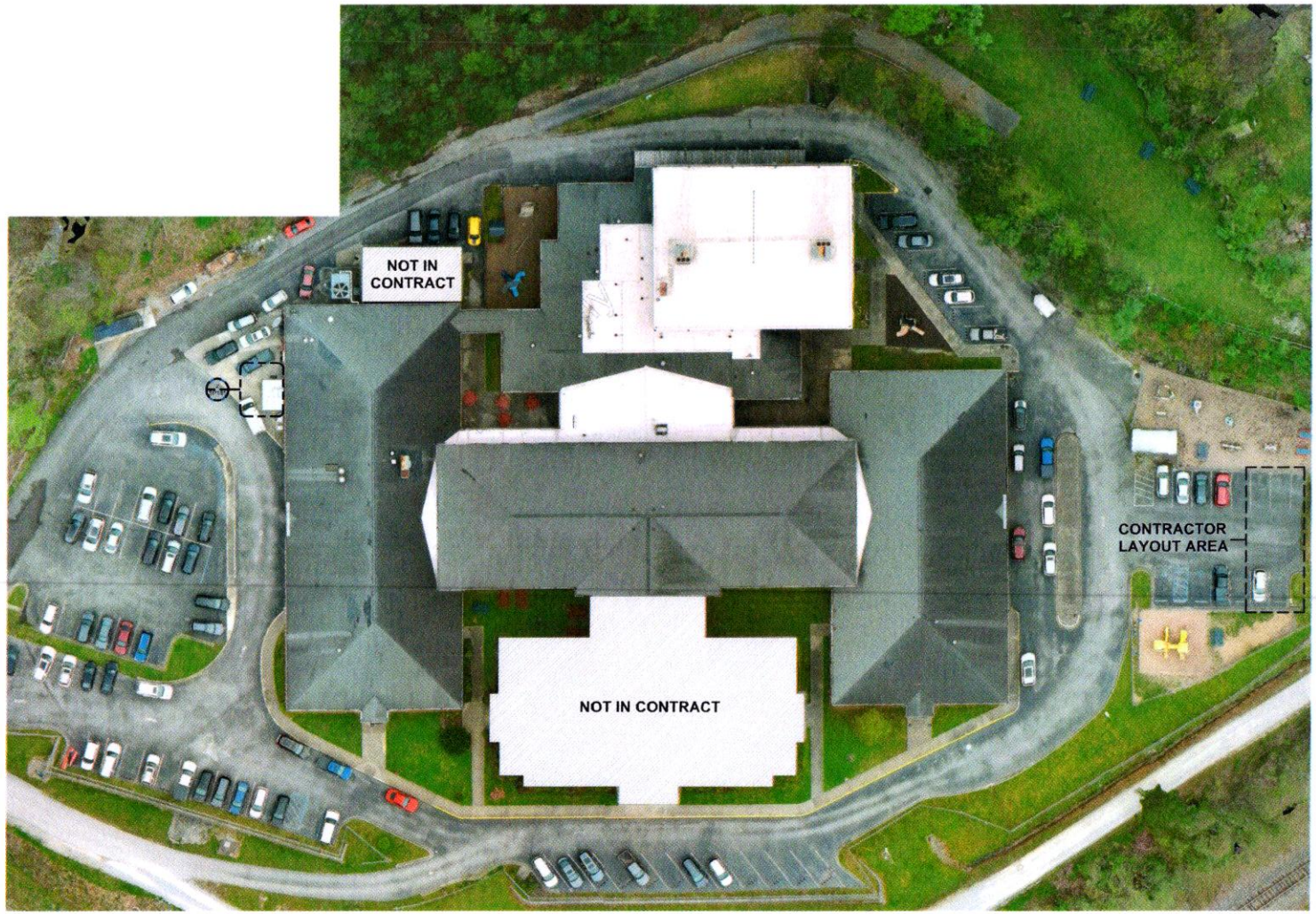
I. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC IS CONSIDERED INCIDENTAL TO CONSTRUCTION ACTIVITIES.



2 NEW BOLLARD LOCATIONS
SP101 1/4" = 1'-0"



3 NEW BOLLARD SECTION
SP101 1 1/2" = 1'-0"



1 SITE PLAN
SP101 1" = 20'-0"

SUMMIT ARCHITECTS+ENGINEERS

2305 Beaver Bridge Place
Lexington, KY 40299
859.263.1447

150 Lewis Street
Frankfort, KY 40601
502.227.2267

www.summit-ae.com

KEVIN M. GILLIAM
LICENSED PROFESSIONAL ARCHITECT

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

183 BEBEL LN EASTERN, KY 41622

SITE PLAN

REVISIONS		
NO.	DESCRIPTION	DATE

THE SUMMIT ARCHITECTS + ENGINEERS, PLLC HAS RESERVED THE RIGHT TO THE ORIGINAL PROJECT DESIGN. THIS DOCUMENT IS THE PROPERTY OF SUMMIT ARCHITECTS + ENGINEERS.

DATE: 4/22/2025
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 166.003
SHEET:

SP101

4/22/2025 12:03:55 PM Y:\2024\Floyd Co - Duff Elementary Renovation\DUFF ELEMENTARY Renovation 4-22-25.rvt

SYMBOL LEGEND

- SHEET KEY NOTE
- DEMOLITION KEY NOTE
- WALL TAG
- DOOR TAG
- WINDOW TAG
- TOILET ACCESSORY TAG
- PHOTO TAG
- Room Name 101 — ROOM TAG
- INDICATES FIRE RATED WALL (REFER TO PARTITION TYPES FOR RATING REQUIREMENTS AND UL NUMBERS)
- 1-HOUR RATED WALL, SEE WALL TYPES
- 2-HOUR RATED WALL, SEE WALL TYPES
- Name Elevation — LEVEL HEAD
- DETAIL CALLOUT
- ELEVATION MARK
- COLUMN GRID HEAD
- WALL SECTION
- BUILDING SECTION
- SINGLE DOOR
- DOUBLE DOOR
- URINAL
- FLOOR MOUNTED TOILET
- WALL HUNG TOILET

GENERAL ARCHITECTURAL NOTES

A. ALL RIGHTS RESERVED BY ARCHITECT. DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THEY SHALL NOT BE USED ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ARCHITECT. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT THE JOB SITE. THE ARCHITECT WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE PROJECT. MATERIAL QUANTITIES AND TAKE-OFFS THAT MAY BE PROVIDED HEREON ARE ESTIMATES FOR THE CONVENIENCE OF RECEIVING CONTRACTORS ONLY. RECEIVING CONTRACTORS REMAIN SOLELY RESPONSIBLE FOR THEIR TAKE-OFFS AND A COMPLETE PRODUCT AS OTHERWISE SPECIFIED BY THESE DRAWINGS AND SPECIFICATIONS.

B. DO NOT SCALE DRAWINGS.

C. WALL TYPES SHALL MAINTAIN THEIR RESPECTIVE SEPARATION RATING (IF ANY) FOR FULL HEIGHT OF WALL. ALL MECHANICAL AND ELECTRICAL PENETRATIONS SHALL BE SEALED WITH APPROVED FIRESTOPPING MATERIALS AS REQUIRED BY APPLICABLE CODES.

D. PROVIDE TACTILE SIGNS AT ALL LOCATIONS, INSTALLED IN ACCORDANCE WITH ICC/ANSI A117.1-2009 AND PROVIDE ADJACENT TO ALL EXTERIOR STAIRWAYS, ELEVATORS, AND AT EXIT AREAS. (SECTIONS 715, 1107.6, 2902 KBC) (ICC/ANSI A117.1-2009)

E. ALL GOING SHALL BE IN GYPSUM BOARD PARTITIONS TO BE LOCATED 3" FROM ADJACENT WALL, UNLESS NOTED OTHERWISE.

F. AT ALL JOINTS IN FIRE RATED WALLS, FILL VOIDS W/ FIRE SAFING AND INSTALL BACKER ROD AND FIRED RATED SEALANT ON BOTH SIDES OF WALL.

G. REFER TO PARTITION TYPE FOR HEIGHT OF PARTITIONS, TYPICAL.

H. VERIFY SIZE OF PRE-FABRICATED ITEMS, SUCH AS FIRE EXTINGUISHER CABINETS, SHOWER WASTE, AND WINDOW ACCESSORIES PRIOR TO INSTALLING.

I. PROVIDE IN GOING IN WALLS AS REQUIRED FOR ATTACHMENT OF SURFACE MOUNTED ITEMS SUCH AS RESTROOM ACCESSORIES AND CABINWORK.

J. PROVIDE GYPSUM BOARD CONTROL JOINTS PER THE SPECIFICATIONS, BUT NOT TO EXCEED 30'-0" ALONG CONTINUOUS INTERIOR PARTITIONS. (REFER TO DETAIL 3/G002)

K. PROVIDE SEALANT AT JOINTS BETWEEN DISSIMILAR MATERIALS.

L. EACH CONTRACTOR SHALL VERIFY ALL DIMENSIONS & CONDITIONS @ THE SITE & REPORT ANY DISCREPANCY TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

M. ALL WORK SHALL COMPLY W/ FEDERAL, STATE, & LOCAL CODES & REGULATORY AGENCIES HAVING JURISDICTION.

N. ALL SPECIFIED DETAILS, MATERIALS, & METHODS IN KNOWN & / OR NOTED ON ANY SHEET SHALL APPLY TO ALL OTHER SIMILAR LOCATIONS, UNLESS NOTED OTHERWISE.

O. NO CONTRACTOR HAS THE AUTHORITY TO REPAIR THE USE OF ANY PORTION OF THE SITE OR BUILDING TO ANYONE, EXCEPT FOR BUSINESS CONNECTED TO THE CONSTRUCTION WITH WHICH THIS CONTRACT IS CONCERNED.

P. ALL DIMENSIONS ARE FROM FACE WOOD STUD/ MASONRY TO FACE OF WOOD STUD/CMU UNLESS NOTED OTHERWISE.

Q. ALL MATERIALS, OBJECTS, & EQUIPMENT ARE NEW, UNLESS OTHERWISE NOTED.

R. REMOVE AND LEGALLY DISPOSE OF DEBRIS, RUBBISH & WASTE MATERIALS FROM THE SITE.

S. ALL INTERIOR METAL STUD PARTITIONS SHALL CONTAIN SOUND ATTENUATION BATT FULL HEIGHT U.N.O.

T. WATER RESISTANT GYPSUM WALL BOARD SHALL BE USED AT ALL TOILET ROOMS. SUBSTITUTE W/ PORTLAND CEMENT BACKER BOARD WHERE TILE WILL "TILE OCCURS (REFER TO ROOM FINISH SCHEDULE)

U. REFER TO FINISH SCHEDULE, SHEET A000, FOR FLOOR AND WALL FINISHES.

V. ALL ANCHORS IN ALUMINUM SHALL BE STAINLESS STEEL

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ABBREVIATION INDEX

#	POUND or NUMBER	GWB	GYPSUM WALL BOARD
&	AND	HC	HOLLOW CORE
@	AT	HM	HOLLOW METAL
ABV	ABOVE	HP	HIGH POINT
AC	ALTERNATING CURRENT	HR	HOUR
ACT	ACOUSTICAL CEILING TILE	HVAC	HEATING, VENTILATION, AIR CONDITIONING
AD	AREA DRAIN	I/O	IN LIEU OF
ADA	AMERICAN WITH DISABILITIES ACT	INSUL	INSULATION or INSULATION
ADAAG	AMERICAN WITH DISABILITIES ACT ARCHITECTURAL GUIDELINES	INT	INTERIOR
ADD	ADDENDUM	IRGWB	IMPACT RESISTANT GYPSUM WALL BOARD
ADDL	ADDITIONAL	JT	JOINT
AFF	UNDER FINISHED FLOOR	MAX	MAXIMUM
AGG	AGGREGATE	MECH	MECHANICAL
ALT	ALTERNATE	MEMBR	MEMBRANE
ALUM	ALUMINUM	MFR	MANUFACTURER
ANCH	ANCHOR	MIN	MINIMUM
APOD	ANODIZED	MO	MASONRY OPENING
APPD	APPROVED	MRGWB	MOISTURE RESISTANT GYPSUM WALL BOARD
ARCH	ARCHITECTURE OR ARCHITECTURAL	MTL	METAL
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	MC	MEET & CONFORM
ATTEN	ATTENUATION	NO.	NUMBER
AUTO	AUTOMATIC	NOM	NOMINAL
BD	BOARD	OC	ON CENTER
BOT	BOTTOM	OD	OVERFLOW DRAIN
BSMT	BASEMENT	OFI	OWNER FURNISHED AND INSTALLED
BTUH	BRITISH THERMAL UNIT PER HOUR	OH	OPPOSITE HAND
BWV	BACK WATER VALVE	OSB	ORIENTED STRAND BOARD
BYND	BEYOND	OZ	OUNCE
CCW	COUNTER CLOCKWISE	PCC	PRE-CAST CONCRETE
CEM	CEMENT	PEMB	PRE-ENGINEERED METAL BUILDING
CF	CUBIC FEET	PLUMB	PLUMBING
CHNL	CHANNEL	PLY	PLYWOOD
CIP	CAST IN PLACE	PNT	PAINT or PAINTED
CJ	CONTROL JOINT or CONSTRUCTION JOINT	PT	PRESSURE TREATED
CL	CENTER LINE	PVC	POLYVINYL CHLORIDE
CLG	CEILING	RMR	RUBBER
CLO	CLOSET	RCP	REFLECTED CEILING PLAN
CLR	CLEAR	RD	ROOF DRAIN
CLRM	CLASSROOM	REQD	REQUIRED
CMU	CONCRETE MASONRY UNIT	RM	ROOM
CO	CLEAN OUT	SF	SQUARE FEET
COL	COLUMN	SIM	SIMILAR
COMPR	COMPRESSIBLE	SPEC	SPECIFICATION
CONC	CONCRETE	SPK	SPRINKLER or SPEAKER
CONST	CONSTRUCTION	STL	STAINLESS STEEL
CONT	CONTINUOUS	STC	SOUND TRANSMISSION COEFFICIENT
CONTR	CONTRACTOR	STD	STANDARD
CPT	CARPET	STRUCT	STRUCTURAL or STRUCTURAL
CT	CERAMIC TILE	TBG	TUBULAR AND GROUND
CTR	CENTER	TD	TELEPHONE/DATA
CW	COLD WATER	TELE	TELEPHONE
CY	CUBIC YARD	TLT	TOILET
DC	DIRECT CURRENT	TO	TOP OF
DFMD	DIFFUSER	TOC	TOP OF CONCRETE
DF	DRINKING FOUNTAIN	TOS	TOP OF STEEL
DIA or Ø	DIAMETER	TPD	TOILET PAPER DISPENSER
DIM	DIMENSION	T.R.	TUBE RIZER
DP	DAMPPROOFING	TYP	TYPICAL
DS	DOWNSPOUT	UNO	UNDERWRITER
EIFS	EXTERIOR INSULATION + FINISH SYSTEM	UNO	UNLESS NOTED OTHERWISE
EXT	EXTERIOR	VCB	VINYL COVE BASE
FD	FLOOR DRAIN	VCT	VINYL COMPOSITION TILE
FFE	FINISHED FLOOR ELEVATION	VIF	VERIFY IN FIELD
GA	GAUGE	VP	VISION PANEL
GALV	GALVANIZED	W/	WITH

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DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

143 SIBLEY, LN BASTROP, KY 41022

GENERAL NOTES AND CODE EVALUATION

REVISIONS		
NO.	DESCRIPTION	DATE

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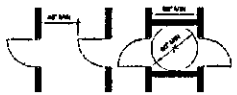
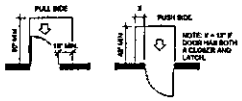
DATE: 4/22/2025
JOB STATUS: CD
DRAWN BY: ER
CHECKED: KG
PROJECT NO: 166.003
SHEET:

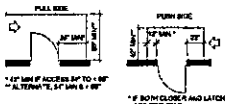
G001



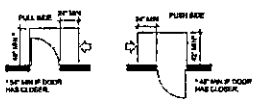
TWO HINGED DOORS IN SERIES



FRONT APPROACHES



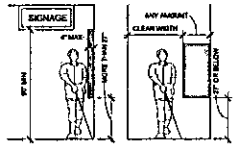
HINGE SIDE APPROACHES



LATCH SIDE APPROACHES

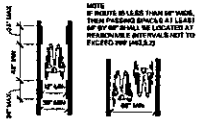
NOTES:
PULLING DOORS WHERE ANY OBSTRUCTION WITHIN 18" OF LATCHSIDE OF DOOR PROJECTS MORE THAN 8" BEYOND THE FACE OF THE DOOR, MANEUVERING CLEARANCE FOR THE FORWARD APPROACH SHALL BE PROVIDED.
DOOR HARDWARE - OPERABLE PARTS ON ACCESSIBLE DOORS BE INSTALLED 34"-48" A.F.F., EXCEPT FOR LOCKS USED ONLY FOR SECURITY PURPOSES.

MANEUVERING CLEARANCES AT DOORS
SCALE = NTS



NOTE: OBJECTS PROJECTING FROM WALLS WITH THEIR LEADING EDGES BETWEEN 27" AND 80" ABOVE THE FINISH FLOOR SHALL PROTRUDE NO MORE THAN 4" INTO WALKS, HALLS, CORRIDORS, PASSAGEWAYS, OR AISLES. CANE/RAILS SHALL BE PROVIDED WHERE OBJECT PROTRUSION IS BETWEEN THE LIMITS ALLOWED.

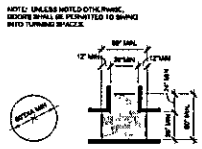
PROTRUDING OBJECTS
SCALE = NTS



NOTE
IF WIDTH IS LESS THAN 36" WIDE, THEN PASSING SPACE IS AT LEAST 30" BY 60" SHALL BE LOCATED AT REASONABLE INTERVALS NOT TO EXCEED 200' (ANSI.3.7)

ONE WHEELCHAIR — TWO WHEELCHAIRS

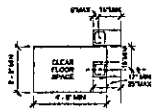
PASSAGE WIDTH
SCALE = NTS



NOTE: UNLESS NOTED OTHERWISE, DOORS SHALL BE PERMITTED TO SWING INTO TURNING SPACE.

DIAMETER SPACE — T-SHAPED SPACE

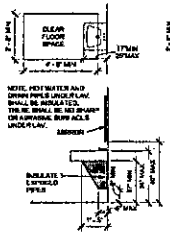
TURNING SPACE
SCALE BOTH = 1'-0"



NOTE: USE HILO FOUNTAIN TO GIVE ACCESS TO THOSE THAT ARE IN WHEELCHAIRS AND THOSE THAT HAVE TROUBLE BENDING. ENSURE THEY COURTESY WITH PROTRUDING OBJECTS PER 307.

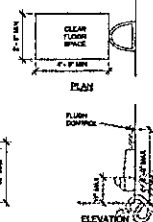
STANDARD — ACCESSIBLE

DRINKING FOUNTAIN
SCALE = NTS



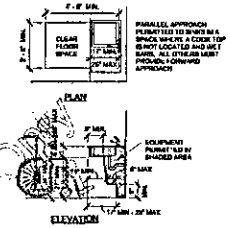
NOTE: HOT WATER AND DRAIN PIPES UNDER LAV. SHALL BE INSULATED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAV.

LAVATORIES & SINKS
SCALE = NTS



PLAN — ELEVATION

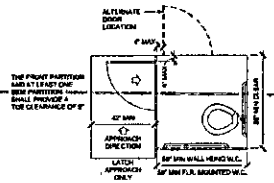
URINAL
SCALE = NTS



PARALLEL APPROACH PERMITTED TO SWING IN A SPACE WHERE A DOOR TOP IS NOT LOCATED AND WHERE ALL OTHER SIDES HAVE PROVIDED FORWARD APPROACH

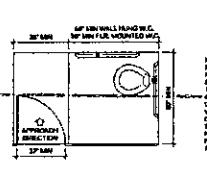
PLAN — ELEVATION

KNEE & TOE CLEAR.
SCALE = NTS

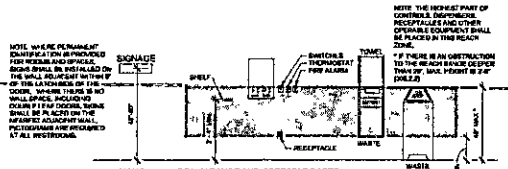


WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT

ACCESSIBLE STALL
SCALE = NTS



WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT

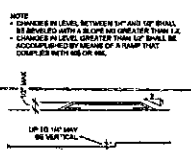


NOTE: WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT WITH 8" OF THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. PICTOGRAMS ARE REQUIRED AT ALL RESTROOMS.

NOTE: THE HIGHEST PART OF CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE PLACED IN THIS REACH ZONE.
* IF THERE IS AN OBSTRUCTION TO THE REACH RANGE DEEPER THAN 20", MAX. HEIGHT IS 3'-6" (ANSI.3.7)

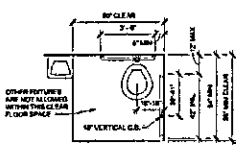
SIGNS — REACH RANGE AND OPERABLE PARTS

MOUNTING HEIGHTS FOR HC
SCALE = NTS

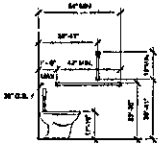


NOTE
* CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
* CHANGES IN LEVEL GREATER THAN 1/2" SHALL BE ACCOMPLISHED BY MEANS OF A RAMP THAT COMPLIES WITH 405 OR 406.

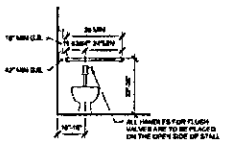
CHANGES IN LEVEL
SCALE = NTS



TOILET ROOM PLAN

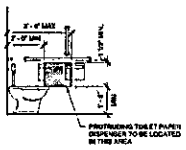


SIDE ELEVATION



REAR ELEVATION

ACCESSIBLE TOILET AND GRAB BARS
SCALE = NTS



TOILET PAPER DISPENSER
SCALE = NTS

HANDRAILS & GRAB BARS

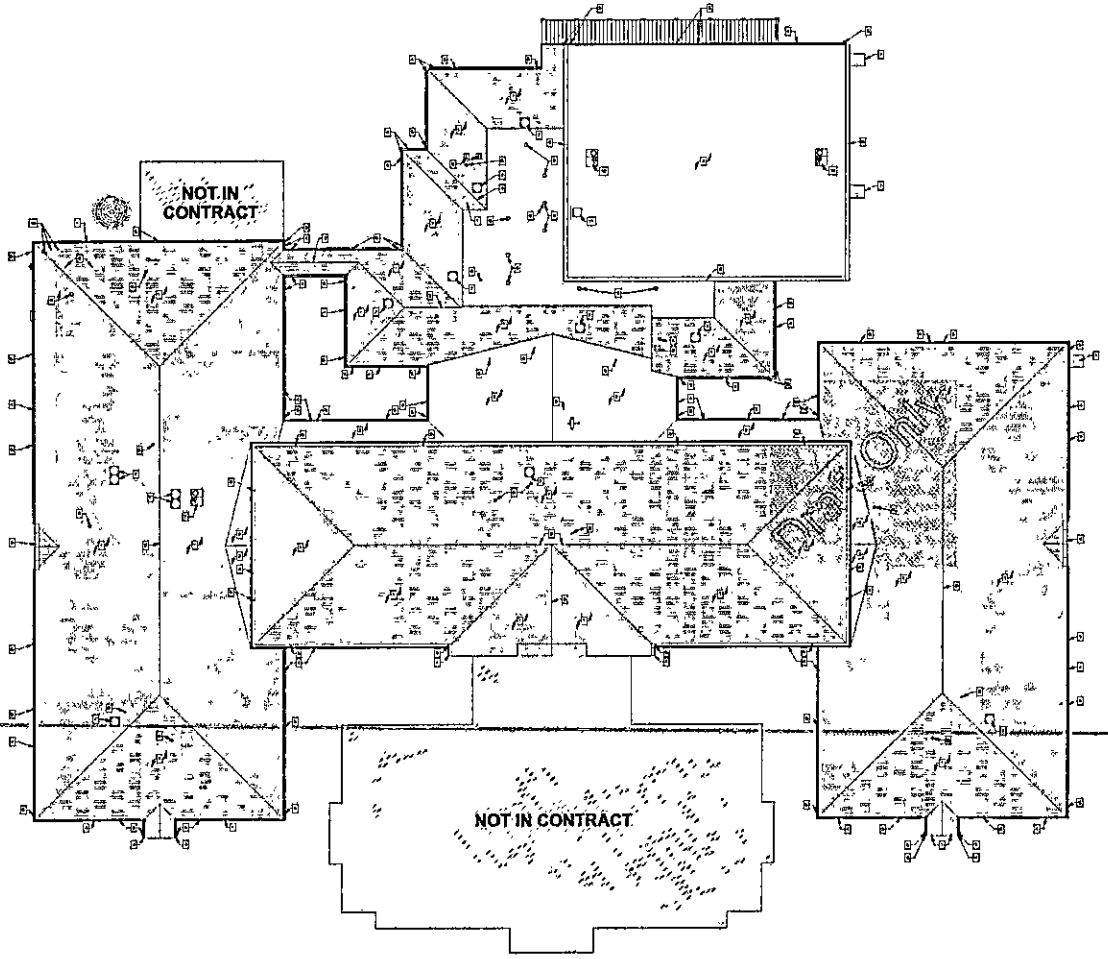
GENERAL NOTES

1. THIS DRAWING IS INTENDED TO BE USED AS A GUIDE FOR CONSTRUCTION OF SUPPORTS ONLY. THE FIRE FRAME WITH SUBCONTRACTS ACT OF 1990 IS PROPOSAL LAW AND MAY NOT BE CIRCUMVENTED UNLESS ANY CIRCUMSTANCES OF 3-4 HOUR ACT CONSTRUCTION ON THE DRAWS. ALL PARTIES SHALL BE INFORMED AND SUBCONTRACTORS REQUIREMENTS AND THE VARIOUS ASSOCIATIONS WITH THOSE REQUIREMENTS
2. ACCORDING A LICENSE OF SUPPORT DRAWS. LICENSE WITH COMPANIES SUBCONTRACTS SUPPORTS CODE. THE CONTRACTOR AND SUBCONTRACTOR SHALL VERIFY THE MOST RECENT RULING FOR A SPECIFIC PROJECT. IF CODE RULES ARE MORE RESTRICTIVE, THE MOST RESTRICTIVE RULING SHALL APPLY
3. BETTER THAN CODE SPECIFICATIONS FOR ACCESSIBILITY STANDARDS (ANSI 1992 REVISED) OF THE SPECIAL CONTRACTOR
4. SUBCONTRACTOR ADVISED OF THE COMPANY, MANPOWER, SHAPE REQUIRED BY LAW. SUCH AS PERFORM ACCESSIBLE ROUTES, MAKE OF LOCKER, SUBCONTRACTORS AND RESTROOMS BUILDING 3 HOUR OF THE SAME CONTRACT. WORK ON SPACE CONSTRUCTION DEPENDS ON REQUIREMENTS. ALL SUBCONTRACTORS SHALL VERIFY THAT MINIMUM REQUIREMENTS OF THE CURRENT APPLICABLE VERSION OF ANSI.
5. FLOOR OR GROUND SURFACE SHALL BE STABLE, FIRM AND SLIP RESISTANT. IF USED, CARPET OR CARPET TILE SHALL BE OF CLOSE ESTABLISHED AND SHALL HAVE A FIRM CUSHION OR NO CUSHION. CARPET TILE SHALL HAVE A LOWER LOOP STYRENE LOOP VINYL. SOFT PILE OR LONG PILE CARPET OR PILE TEXTURE. PILE HEIGHT SHALL BE 1/2" MAX. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACE AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH 302.2(ANSI)
6. STAIRWAYS: INTERIOR & EXTERIOR STAIRS SHALL AND PART OF A MINIMUM OF NONE SHALL COMPLY WITH ANSI STANDARDS & SPECIFICATIONS.
   A. 4-1 STEPS ONE A FLOW OF 8 RISERS SHALL HAVE UNIFORM WIDTH HEIGHT AND UNIFORM TREAD DEPTH, SEE 5
   B. ANY STAIRS TO SHALL NOT BE PERMITTED (SEE 4)
   C. TREAD SURFACE SHALL NOT HAVE A BEVEL STEEPER THAN 1:48 (SEE 4)
   D. STAIR LEVEL SURFACE SECTION MORE IN DETAILS CHARACTERS SHALL BE LOCATED AT EACH FLOOR SHALL FINISHED STAIRWAYS IN ADJACENT TO STAIR DOOR TO CONTINUE FLOOR LEVEL. EXIT DOUBLE DISCHARGE 30 FIN. FIRE SIDE SHALL HAVE A RETURN SIDE STAIRS "DOT" (SEE 5)
7. A DOOR FLOOR SPACE SHALL BE 4'-0" MINIMUM WIDTH AND 2'-0" MINIMUM WIDTH (SEE)
8. DOORS AND SIDELITES ADJACENT TO DOUBLE CONTAINING ONE OR MORE SLIDING PANEL A THAT STEAM HOWING SHALL HAVE THE SUN ON OF AT LEAST ONE PANEL ON 12" NOT THE DOOR OR AN ADJACENT SIDELITE OF MOVABLE ABOVE THE FLOOR (SEE 10)
9. REVOLVING DOORS, REVOLVING GATES AND TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE (SEE 9)
10. MAKING SURE ARE PROVIDED, AT LEAST 5%, BUT NO FEWER THAN ONE, OF EACH TYPE PROVIDED IN EACH RESTROOM, SHALL SHALL COMPLY WITH 306 (SEE 306 TABLE)
11. DRINKING FOUNTAINS: NO TOWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED. ONE SHALL BE ACCESSIBLE TO WHEELCHAIRS AND THE OTHER SHALL BE NOT HIGHER THAN 36" (SEE 9.4.1 ALSO UNIT SHALL BOTH OF THEM SHALL BE PROVIDED. ANY BE SUBMITTED FOR TWO DRINKING FOUNTAINS. WHEN MORE THAN TWO ARE PROVIDED 50% SHALL COMPLY WITH 306.1 ABOVE AND 50% SHALL COMPLY WITH THE REQUIREMENTS FOR STANDARD PERSONS. (SEE 10.1.1 10.2)
12. WHERE SEATING IS PROVIDED AT A BAR OR COUNTER, AT LEAST 5% OF THE SEATING SURFACES SHALL BE PROVIDED AT LEAST 5%, BUT NOT LESS THAN ONE, SHALL BE ACCESSIBLE. THOSE SHALL BE DISTRIBUTED THROUGHOUT THE SPACE AND ADJACENT TO ACCESSIBLE ROUTES (SEE 9.4.1 TABLE 11)
13. ACCESSIBLE DINING AND DRINKING SURFACE SHALL COMPLY WITH 306 (SEE 306. POSSIBLE FOR A FORWARD APPROACH. TOPS OF SUCH SURFACES SHALL BE 28" MINIMUM AND 34" MAXIMUM (A.7.7 (306))
14. A PORTION OF A SEAT IS AND SURFACE CENTER (SPECIFICATIONS) SURFACE THAT IS 18" LONG MIN. AND 20" MAX. A 2.7 (306.3). PROVIDES A CLEAR LOOR OR GROUND SPACE, COMPLYING WITH 305 (SEE 305 PROVIDES A PARALLEL APPROACH. A FORWARD APPROACH CAN ALSO BE PROVIDED THAT COMPLIES WITH ANSI 1.2 (306.4)

ACCESSIBLE ROUTE

306 (SEE 306 TABLE, SECTION 1 Rev)

- ACCESSIBLE ROUTES WITHIN THE SITE SHALL BE PROVIDED FROM PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARKING, ACCESSIBLE PASSENGER PLACES, AND PUBLIC STREETS OR SIDEWALKS TO THE ACCESSIBLE BUILDING ENTRANCE SERVED.
- AT LEAST 50% OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE. (1109.1)
- AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE (ANSI 1.2 (306.1)). ALL ROOMS SHALL BE ACCESSIBLE. ALL ROOMS SHALL BE ACCESSIBLE. ALL ROOMS SHALL BE ACCESSIBLE. ALL ROOMS SHALL BE ACCESSIBLE. ALL ROOMS SHALL BE ACCESSIBLE.
- AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT EACH ACCESSIBLE LEVEL, INCLUDING MEZZANINES, IN THE BUILDING. ANSI 1.2 (306.1) ALL ROOMS SHALL BE ACCESSIBLE. ALL ROOMS SHALL BE ACCESSIBLE. ALL ROOMS SHALL BE ACCESSIBLE. ALL ROOMS SHALL BE ACCESSIBLE.



D100 ROOF DEMO
1/16" = 1'-0"

ROOF DEMOLITION KEY NOTES:

1. REMOVE EXISTING SHINGLES AND UNDERLAYMENT.
2. REMOVE EXISTING ROOF MEMBRANE AND UNDERLAYMENT.
3. REMOVE EXISTING RIDGE VENT.
4. REMOVE EXISTING GUTTER AND FASCIA.
5. REMOVE EXISTING DOWNSPOUT TO BOOT (IF ONE EXISTS)
6. EXISTING VTR TO REMAIN, REMOVE EXISTING FLASHING.
7. EXISTING MECHANICAL EQUIPMENT TO REMAIN; REMOVE SUPPORT TEMPORARILY AS REQUIRED FOR INSTALLATION OF NEW ROOF PANELS/MEMBRANE.
8. EXISTING METAL ROOF VENT TO REMAIN, REMOVE EXISTING FLASHING.
9. REMOVE EXISTING COPING.
10. REMOVE ELECTRICAL DEVICE TEMPORARILY AS REQUIRED FOR INSTALLATION OF NEW ROOF PANELS - COORD. W/ OWNER
11. EXISTING ROOF ACCESS HATCH TO REMAIN, REMOVE EXISTING FLASHING.

DEMOLITION GENERAL NOTES:

A. THIS DEMOLITION DRAWING WAS PREPARED BASED UPON ON GENERAL FIELD MEASUREMENTS. SUMMIT ARCHITECTURAL SERVICES DOES NOT WARRANT THEIR COMPLETENESS AND ACCURACY. THE CONTRACTOR SHALL TAKE MEASURES TO FIELD VERIFY ALL INFORMATION SHOWN PRIOR TO COMMENCING DEMOLITION. THE CONTRACTOR SHALL NOT ASSUME THESE DRAWINGS TO BE WHOLLY ACCURATE AND/OR COMPLETE.

B. SELECTIVE DEMOLITION REFERENCE NOTES ARE INTENDED TO GENERALLY IDENTIFY THE SELECTIVE REMOVAL OF EXISTING ITEMS AT THE EXISTING BUILDING AT LOCATIONS WHERE REQUIRED BUT SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR EXAMINING AND VERIFYING THE FULL EXTENT OF EXISTING CONDITIONS.

C. ASBESTOS CONTAINING MATERIAL HAS BEEN IDENTIFIED ON PORTIONS OF THE ROOF AND WILL NEED TO BE PROPERLY/LEGALLY ABATED. WORK PERTAINING TO ASBESTOS MUST MEET REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. REFER TO THE PROJECT MANUAL, SPECIFICATIONS AND ASBESTOS SURVEY PROVIDED FOR ADDITIONAL INFORMATION.

D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL MATERIALS PERTAINING TO THE WORK FROM THE SITE. ALL REMOVED ITEMS NOT WANTED BY THE OWNER SHALL BECOME PROPERTY OF THE CONTRACTOR. AN APPROPRIATE CONTAINER SHALL BE SUPPLIED BY THE CONTRACTOR AND LOCATED ON THE SITE WHERE APPROVED BY THE OWNER. DISPOSAL OF CONSTRUCTION RELATED MATERIALS SHALL BE ACCOMPLISHED IN A LEGAL MANNER.

E. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS RELATED TO NEW WORK.

F. THE OWNER RESERVES THE RIGHT PRIOR TO THE CONTRACTOR BEGINNING CONSTRUCTION TO REMOVE ANY AND ALL EXISTING CONSTRUCTION MATERIALS FROM THE JOB SITE.

G. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.

H. THE PORTIONS OF THE BUILDING TO REMAIN SHALL BE PROTECTED. THE WORK REQUIRED BY THE MECHANICAL, ELECTRICAL AND ALL TRADES SHALL BE THE RESPONSIBILITY OF THESE TRADES TO DETERMINE THE EXTENT OF THE DEMOLITION AND NEW WORK AND PATCH AND REPAIR AND INCLUDE THIS IN THEIR BID. THE WORK SHALL BE DONE BY CRAFTSMAN SKILLED IN THEIR TRADE.

I. DEMOLITION PERTAINING TO EXISTING STRUCTURAL ELEMENTS. THE CONTRACTOR SHALL VERIFY THE EXISTING SPANS AND ALL CONDITIONS AND SUPPORT THE EXISTING WORK TO REMAIN TO PREVENT ANY MOVEMENT OR SETTLEMENT WHILE THE WORK IS BEING COMPLETED.

J. THE DEMOLITION CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE IN A PROPER MANNER TO MEET ALL GOVERNMENTAL REGULATORY REQUIREMENTS.

K. MAINTAIN WATER TIGHTNESS AND SECURITY OF THE EXISTING BUILDING AT ALL TIMES DURING THE COURSE OF DEMOLITION/CONSTRUCTION.

L. REMOVE ALL GUTTER, DOWNSPOUT/WOOD FASCIA, AND ROOF TOP EQUIPMENT IN THEIR ENTIRETY. REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

M. DIMENSIONS INDICATED ON ROOF DEMOLITION PLAN ARE FOR REFERENCE PURPOSES ONLY. ALL CONDITIONS SHOULD BE VIF.

N. SEE MECHANICAL PLANS FOR EQUIPMENT CURB DETAILS

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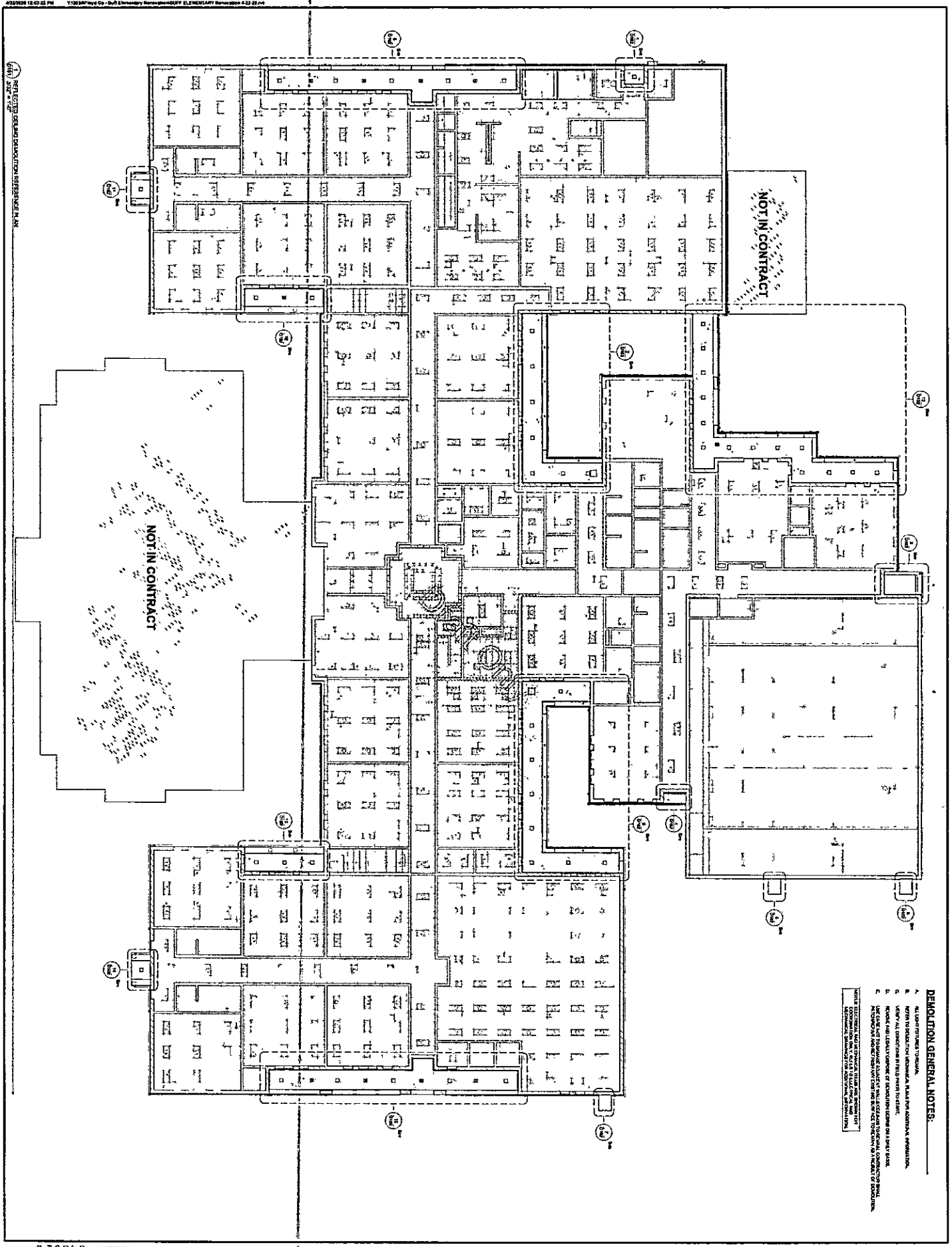
DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

ROOF DEMOLITION PLAN

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 4/22/2025
JOB STATUS: CD
DRAWN BY: ER
CHECKED: KG
PROJECT NO. 154.003
SHEET:

D100



DEMOLITION GENERAL NOTES:

A. ALL LIGHT FIXTURES TO REMAIN.
B. REFER TO DEMOLITION MECHANICAL PLAN FOR ADDITIONAL INFORMATION.
C. VERIFY ALL CONDITIONS IN FIELD PRIOR TO START.
D. REMOVE AND LEGALLY DISPOSE OF EXCAVATION DEBRIS ON A DAILY BASIS.
E. USE CARE NOT TO DAMAGE ADJACENT WALLS, CEILINGS TO REMAIN. CONTRACTOR SHALL RETUCH/PAINT/REPAIR ANY DAMAGE BEFORE TO REMAIN IN A FACILITY OF DEMOLITION.

NOTE: CONTRACTOR TO COORDINATE WITH ELECTRICAL, MECHANICAL, PLUMBING, FIRE ALARM, AND TECHNOLOGY DRAWINGS FOR ADDITIONAL DEMOLITION.

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

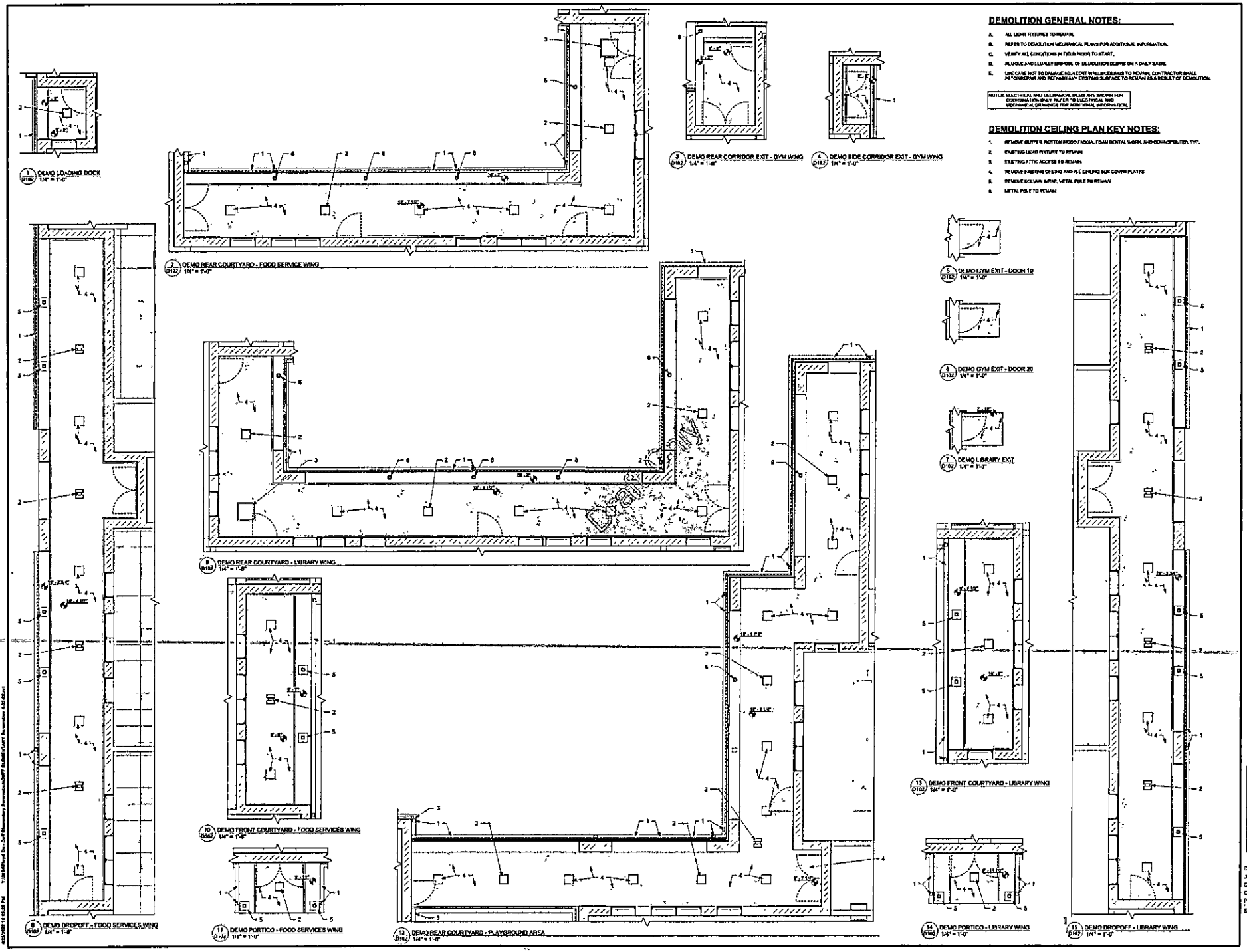
123 ABBER, LN EASTERN, KY 41622

DEMOLITION FIRST FLOOR CEILING PLAN

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 4/22/2020
JOB STATUS: CD
DRAWN BY: CS
CHECKED: KG
PROJECT NO.: 166.003
SHEET: D101

SUMMIT ARCHITECTS + ENGINEERS



DEMOLITION GENERAL NOTES:

A. ALL LIGHT FIXTURES TO REMAIN.
B. REFER TO DEMOLITION MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
C. VERIFY ALL CONDITIONS IN FIELD PRIOR TO START.
D. REMOVE AND LEGALLY DISPOSE OF DEMOLITION DEBRIS ON A DAILY BASIS.
E. USE CARE NOT TO DAMAGE ADJACENT WALL/CEILINGS TO REMAIN. CONTRACTOR SHALL PATCH/REPAIR AND RETEXTURE ANY EXISTING SURFACE TO REMAIN AS A RESULT OF DEMOLITION.

NOTE: ELECTRICAL AND MECHANICAL ITEMS ARE SHOWN FOR COORDINATION ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

DEMOLITION CEILING PLAN KEY NOTES:

1. REMOVE GUTTER, ROTTEN WOOD FASCIA, FOAM DENTAL WORK, AND DOWNSPOUT(S), TYP.
2. EXISTING LIGHT FIXTURE TO REMAIN
3. EXISTING ATTIC ACCESS TO REMAIN
4. REMOVE EXISTING CEILING AND ALL CEILING BOX COVER PLATES
5. REMOVE COLUMN WRAP, METAL POLE TO REMAIN
6. METAL POLE TO REMAIN

SUMMIT ARCHITECTS + ENGINEERS

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

DEMOLITION FIRST FLOOR CEILING ENLARGED PLANS

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 4/22/2025
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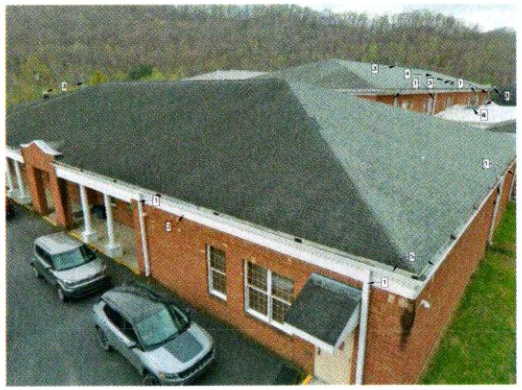
PROJECT NO. 168.00J
SHEET:

D102

PHOTO A



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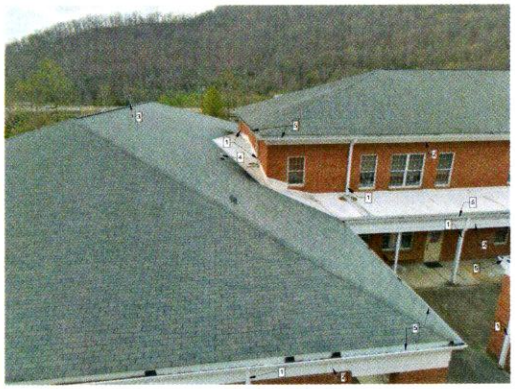


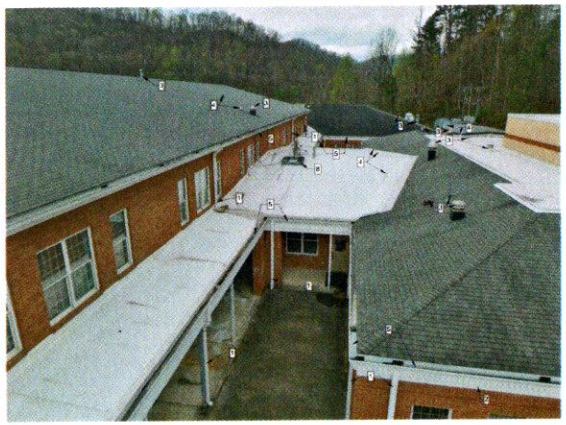
PHOTO C

DEMOLITION KEY NOTES:

1. REMOVE EXISTING DOWNSPOUT AND ASSOCIATED WALL STRAP, DOWNSPOUT BOOT AND ASSOCIATED PIPING TO REMAIN.
2. REMOVE EXISTING GUTTER PROFILE FASCIA AND ASSOCIATED FLASHING, TRIM AND FASTENERS IN THEIR ENTIRETY.
3. REMOVE, STORE, AND REINSTALL EXISTING MECHANICAL VENTS AS REQUIRED TO ALLOW FOR INSTALLATION OF CURB EXTENDERS. COORD. W/ NEW WORK CONTRACTOR. DO NOT REMOVE UNTIL REQUIRED.
4. REMOVE VTR AND BOOT JUST BELOW ROOF TO ALLOW FOR RELOCATION DURING NEW CONSTRUCTION- COORD.
5. REMOVE EXISTING GUTTER AND ASSOCIATED FASTENERS.
6. REMOVE AND REINSTALL SURFACE MOUNTED ELECTRICAL DEVICE, COORDINATE W. OWNER
7. ROOF ACCESS HATCH TO REMAIN; REMOVE FLASHING.
8. REMOVE EXISTING ABANDONED EQUIPMENT.

GENERAL NOTES:

PRESSURE WASH ALL EXTERIOR BRICK AND EXPOSED SIDING.



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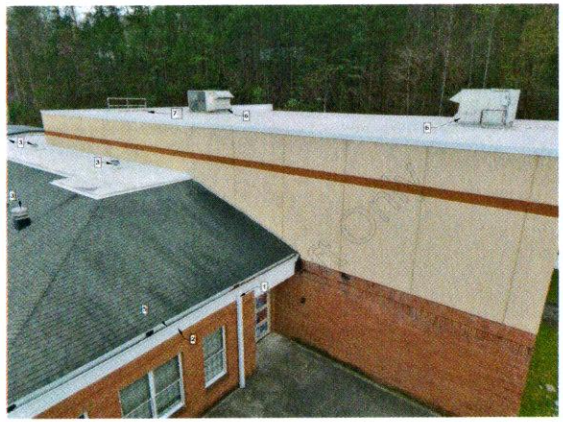

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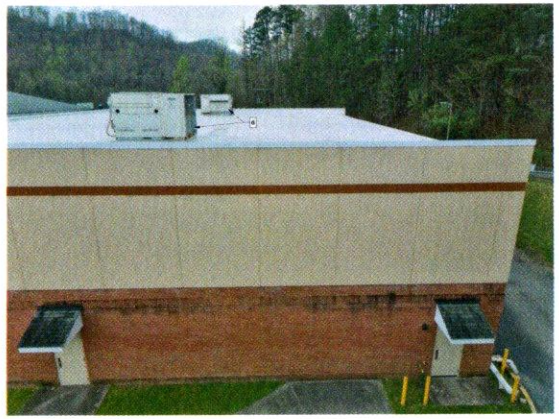

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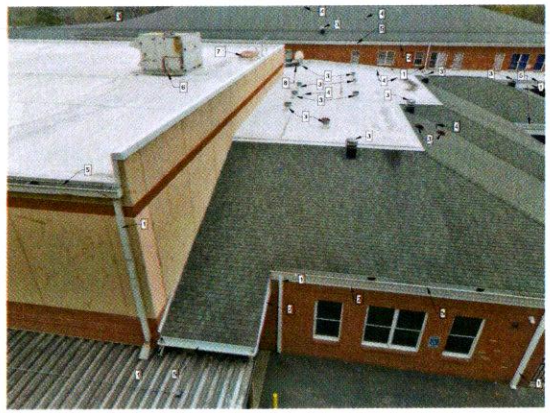

PHOTO I

SUMMIT ARCHITECTS+ENGINEERS

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

183 REBEL LN EASTON, KY 41422

DEMOLITION PHOTO REFERENCE

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DATE 4/22/2025
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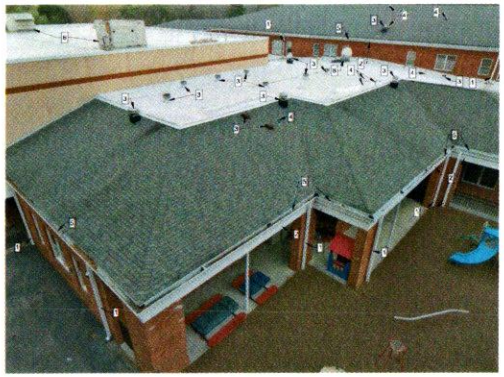
D200



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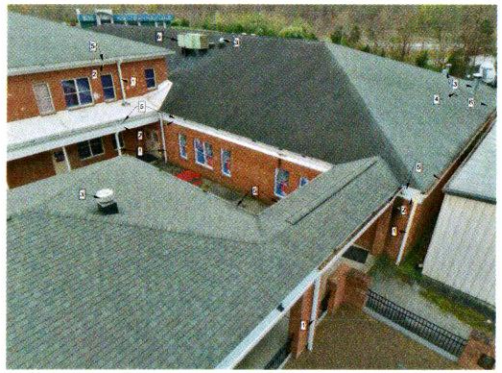

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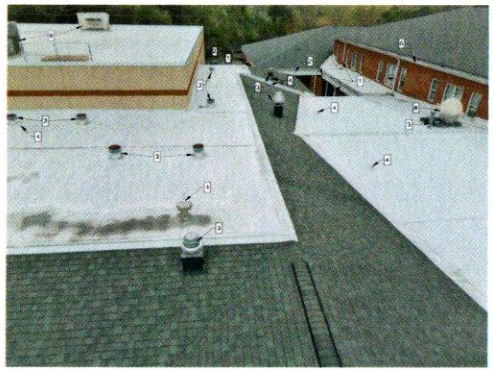


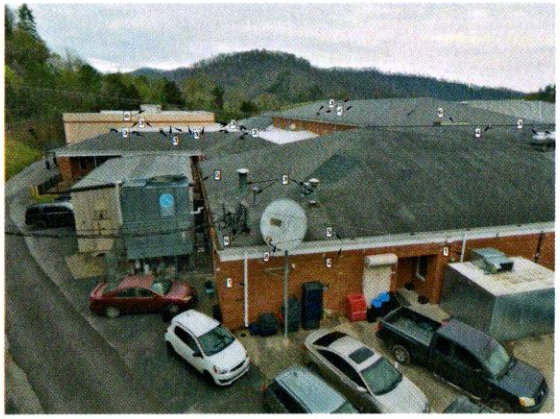
PHOTO L

DEMOLITION KEY NOTES:

1. REMOVE EXISTING DOWNSPOUT AND ASSOCIATED WALL STRAP. DOWNSPOUT BOOT AND ASSOCIATED PIPING TO REMAIN.
2. REMOVE EXISTING GUTTER PROFILE FASCIA AND ASSOCIATED FLASHING, TRIM AND FASTENERS IN THEIR ENTIRETY.
3. REMOVE, STORE, AND REINSTALL EXISTING MECHANICAL VENTS AS REQUIRED TO ALLOW FOR INSTALLATION OF CURB EXTENDERS. COORD. W/ NEW WORK CONTRACTOR, DO NOT REMOVE UNTIL REQUIRED.
4. REMOVE VTR AND BOOT JUST BELOW ROOF TO ALLOW FOR RELOCATION DURING NEW CONSTRUCTION- COORD.
5. REMOVE EXISTING GUTTER AND ASSOCIATED FASTENERS.
6. REMOVE AND REINSTALL SURFACE MOUNTED ELECTRICAL DEVICE, COORDINATE W/ OWNER
7. ROOF ACCESS HATCH TO REMAIN; REMOVE FLASHING.
8. REMOVE EXISTING ABANDONED EQUIPMENT

GENERAL NOTES:

PRESSURE WASH ALL EXTERIOR BRICK AND EXPOSED SIDING.



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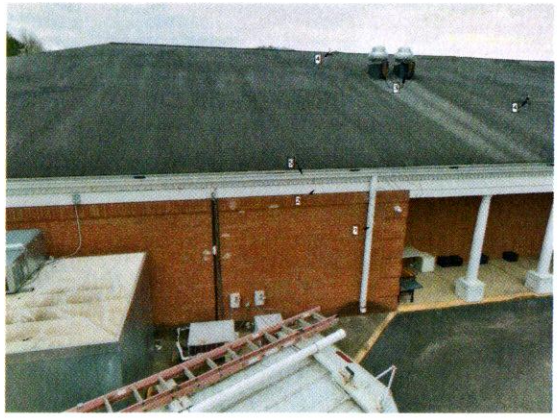

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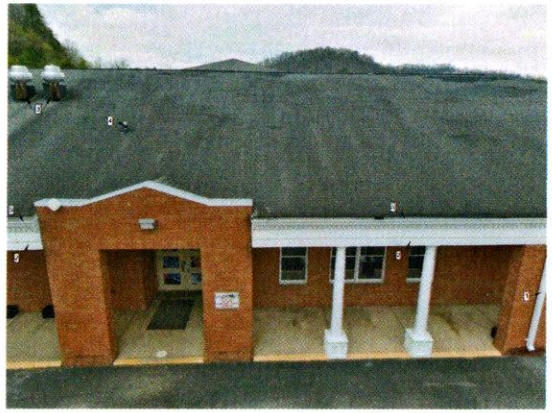

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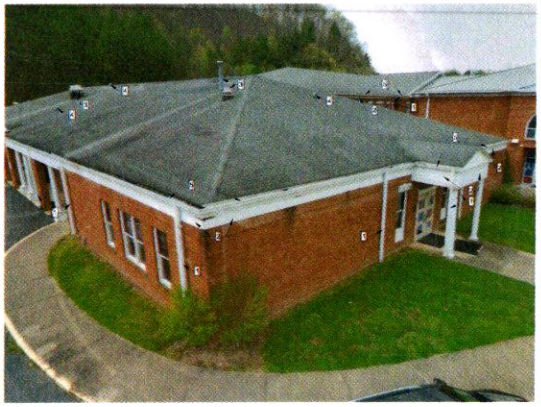

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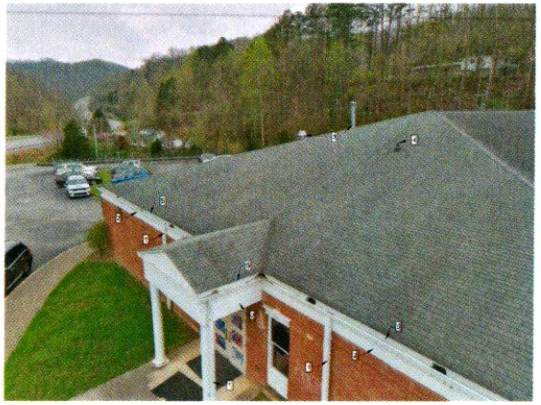

PHOTO Q

PHOTO R

SUMMIT ARCHITECTS+ENGINEERS

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Lexington, KY 40509
859-254-4481

150 Lakes Boroughs
Lexington, KY 40503
859-231-1781

SUMMITAE.COM

KEVIN L. GILLIAM REGISTERED ARCHITECT KENTUCKY

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

150 RIBBLE LN FASTERN, KY 41622

DEMOLITION PHOTO REFERENCE

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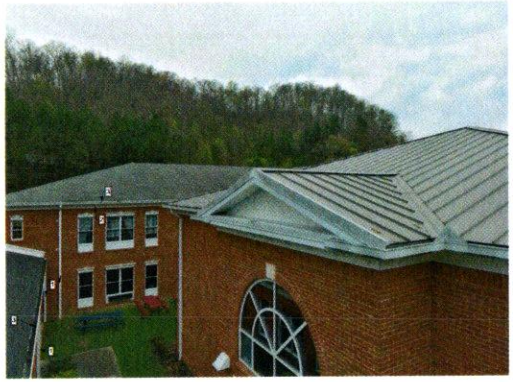

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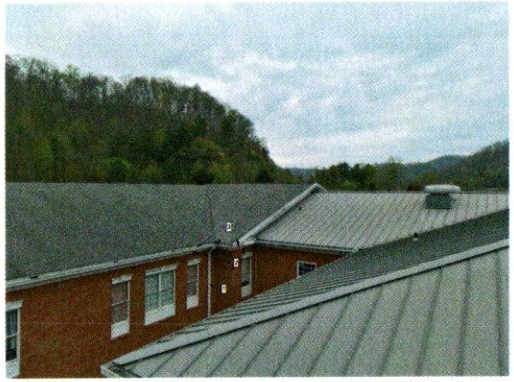

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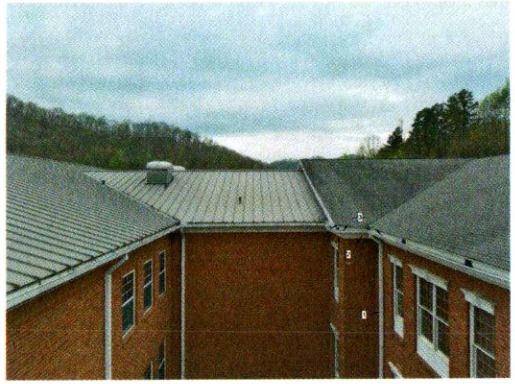

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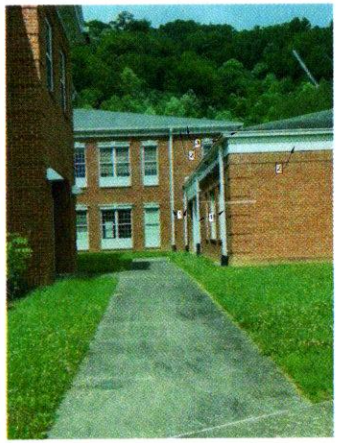

PHOTO V

DEMOLITION KEY NOTES:

1. REMOVE EXISTING DOWNSPOUT AND ASSOCIATED WALL STRAP, DOWNSPOUT BOOT AND ASSOCIATED PIPING TO REMAIN.
2. REMOVE EXISTING GUTTER PROFILE FASCIA AND ASSOCIATED FLASHING, TRIM AND FASTENERS IN THEIR ENTIRETY.
3. REMOVE, STORE, AND REINSTALL EXISTING MECHANICAL VENTS AS REQUIRED TO ALLOW FOR INSTALLATION OF CURB EXTENDERS. COORD. W/ NEW WORK CONTRACTOR. DO NOT REMOVE UNTIL REQUIRED.
4. REMOVE VTR AND BOOT JUST BELOW ROOF TO ALLOW FOR RELOCATION DURING NEW CONSTRUCTION- CCRD.
5. REMOVE EXISTING GUTTER AND ASSOCIATED FASTENERS.
6. REMOVE AND REINSTALL SURFACE MOUNTED ELECTRICAL DEVICE, COORDINATE W/ OWNER
7. ROOF ACCESS HATCH TO REMAIN; REMOVE FLASHING
8. REMOVE EXISTING ABANDONED EQUIPMENT

GENERAL NOTES:

PRESSURE WASH ALL EXTERIOR BRICK AND EXPOSED SIDING.

SUMMIT ARCHITECTS+ENGINEERS
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KEVIN K. GILLIAM
REGISTERED
KENTUCKY
ARCHITECT

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

183 REBEL LN EARLTON, KY 41622

DEMOLITION PHOTO REFERENCE

REVISIONS		
NO.	DESCRIPTION	DATE

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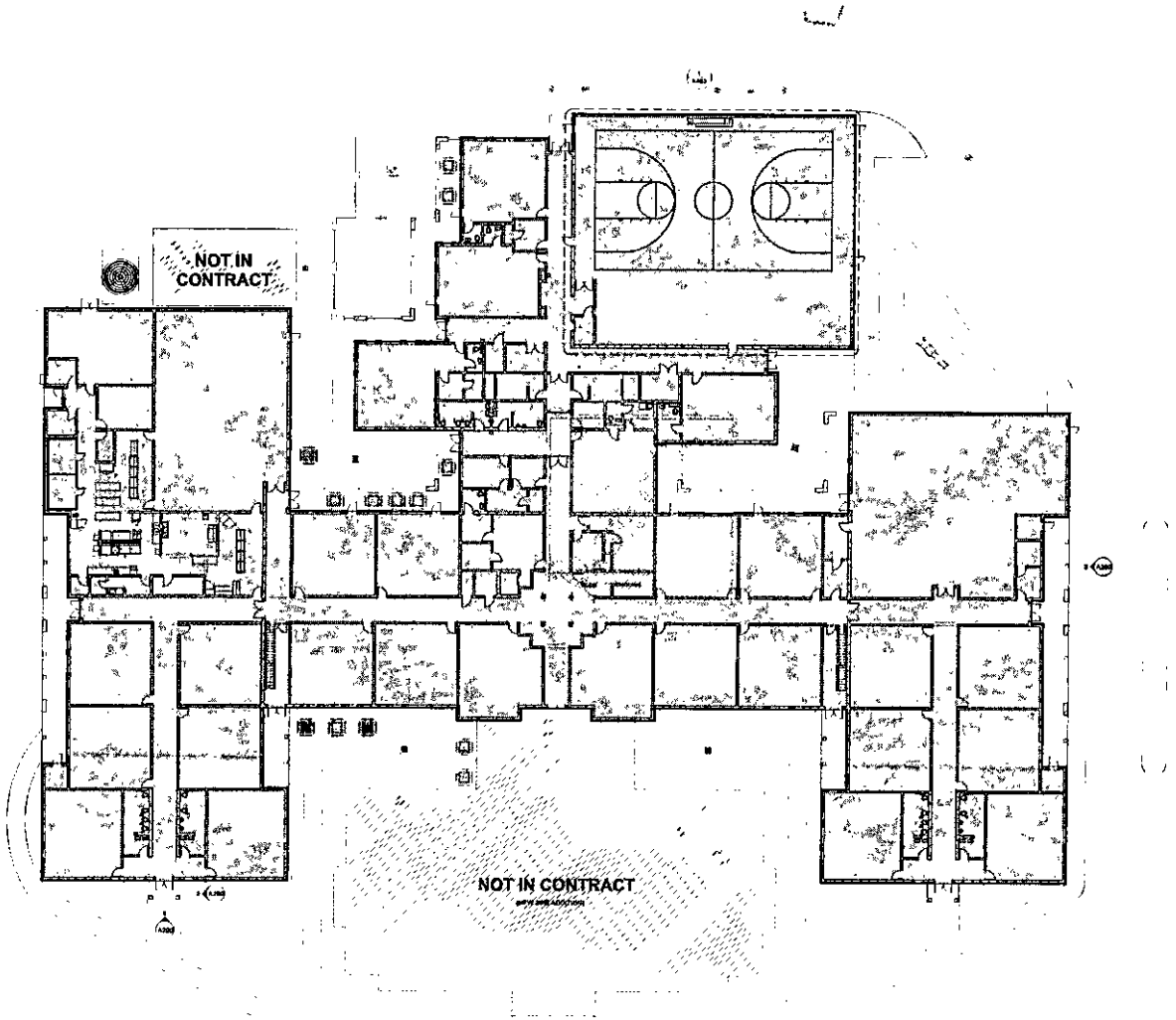

1 FIRST FLOOR
A101 1/16" = 1'-0"

SUMMIT ARCHITECTS + ENGINEERS

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

FIRST FLOOR PLAN

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 4/22/2025
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PROJECT NO: 106.003
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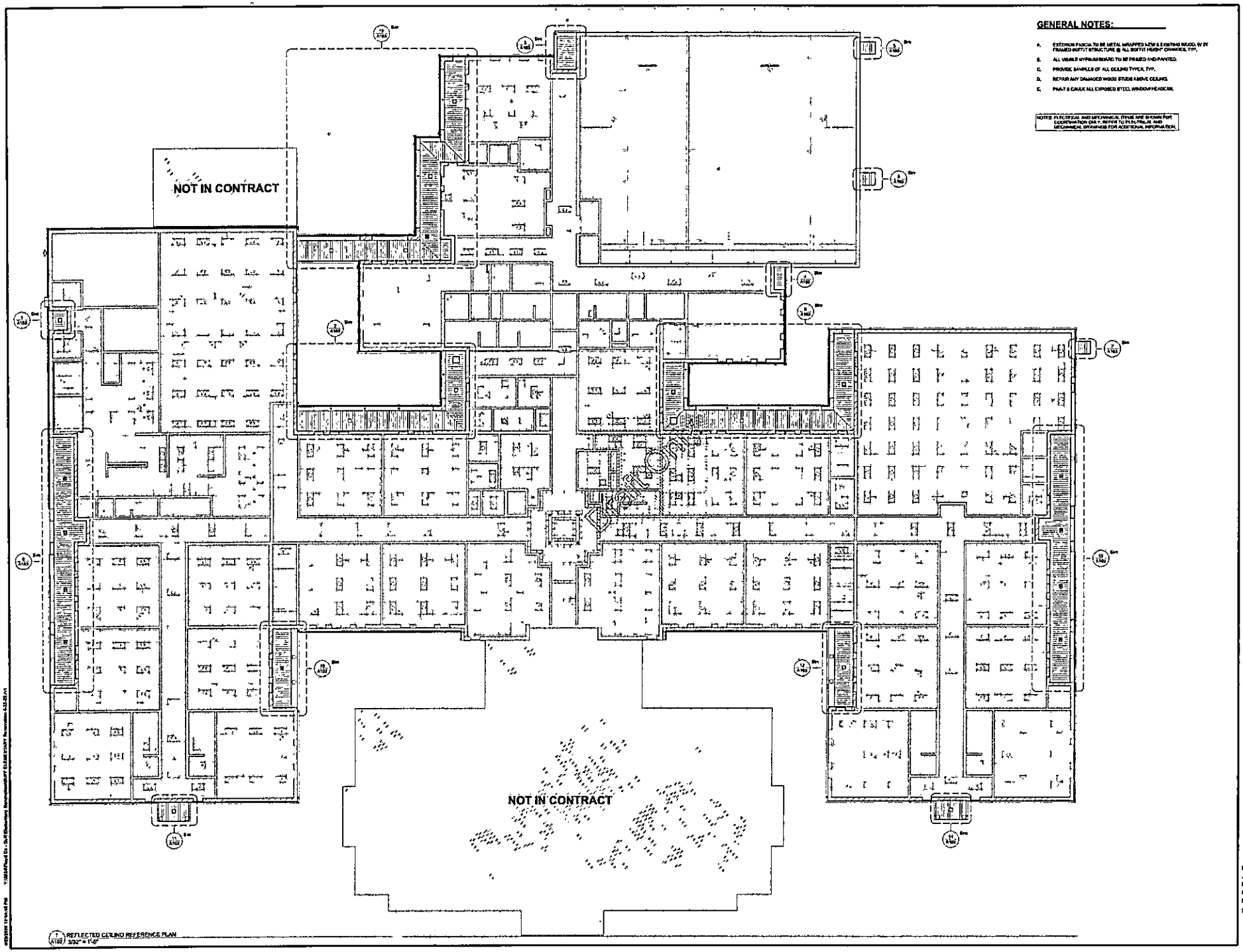
A101



GENERAL NOTES:

A. EXTERIOR FASCIA TO BE METAL WRAPPED NEW & EXISTING WOOD, IN FRAMED SOFFIT STRUCTURE @ ALL SOFFIT HEIGHT CHANGES, TYP.

B. ALL VISIBLE GYPSUM BOARD TO BE PRIMED AND PAINTED.

C. PROVIDE SAMPLES OF ALL CEILING TYPES, TYP.

D. REPAIR ANY DAMAGED WOOD STUDS ABOVE CEILING.

E. PAINT & CAULK ALL EXPOSED STEEL WINDOW HEADERS.

NOTE: ELECTRICAL AND MECHANICAL ITEMS ARE SHOWN FOR COORDINATION ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

1 REFLECTED CEILING REFERENCE PLAN
A102 3/32" = 1'-0"

SUMMIT ARCHITECTS • ENGINEERS

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

SEE SHEET L1.1 SCALE: AS 1:100

FIRST FLOOR REFLECTED CEILING PLAN

REVISION NO.	DESCRIPTION	DATE

DATE: 4/22/2025
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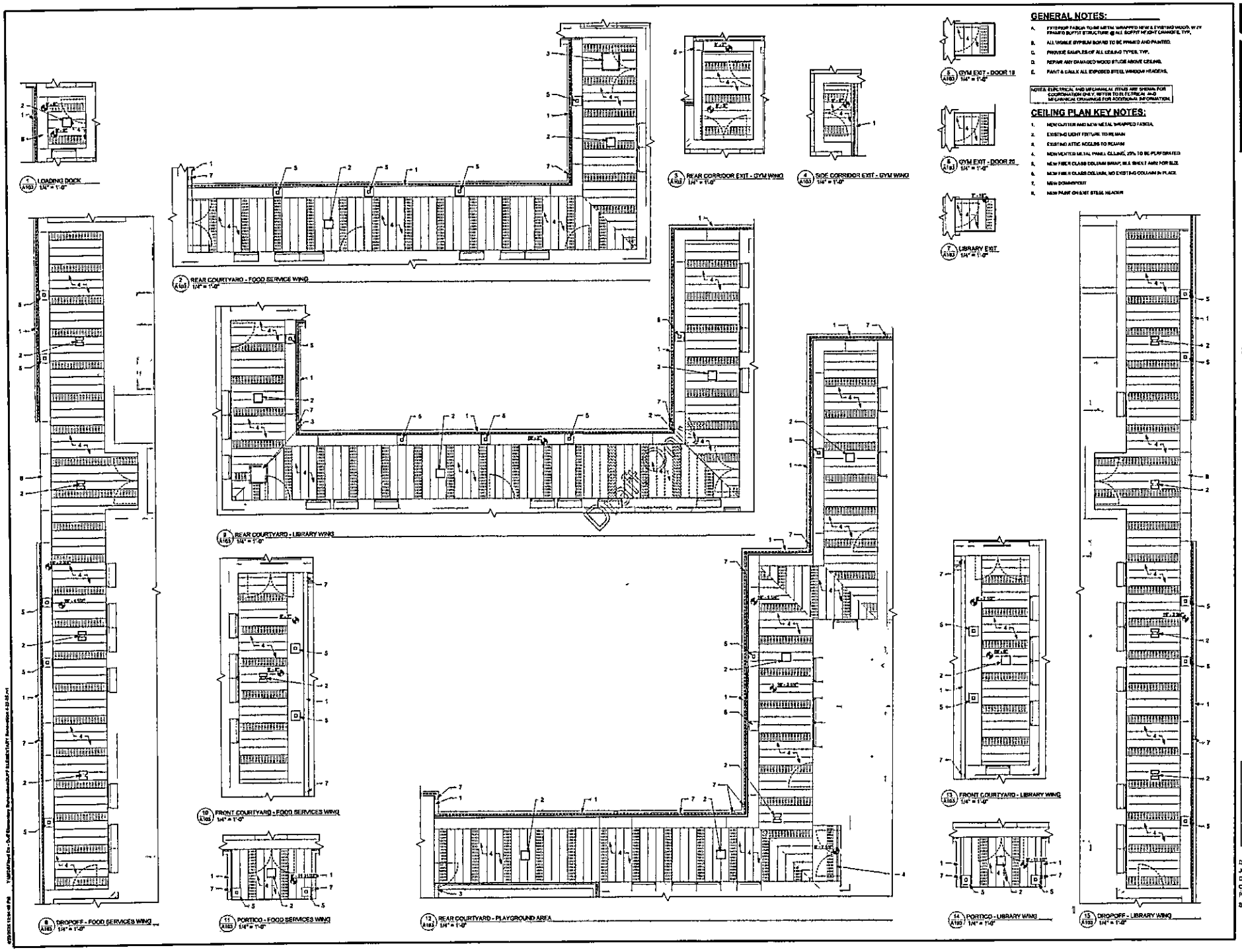

GENERAL NOTES:

A. EXTERIOR FASCIA TO BE METAL WRAPPED NEW & EXISTING WOOD, W 2X FRAMED SOFFIT STRUCTURE @ ALL SOFFIT HEIGHT CHANGES, TYP.

B. ALL VISIBLE GYPSUM BOARD TO BE PRIMED AND PAINTED.

C. PROVIDE SAMPLES OF ALL CEILING TYPES, TYP.

D. REPAIR ANY DAMAGED WOOD STUDS ABOVE CEILING.

E. PAINT & CAULK ALL EXPOSED STEEL WINDOW HEADERS.

NOTE: ELECTRICAL AND MECHANICAL ITEMS ARE SHOWN FOR COORDINATION ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

CEILING PLAN KEY NOTES:

1. NEW GUTTER AND NEW METAL WRAPPED FASCIA.
2. EXISTING LIGHT FIXTURE TO REMAIN
3. EXISTING ATTIC ACCESS TO REMAIN
4. NEW VENTED METAL PANEL CEILING, 25% TO BE PERFORATED
5. NEW FIBER GLASS COLUMN WRAP, BLE SHEET ARRY FOR SIZE
6. NEW FIBER GLASS COLUMN, NO EXISTING COLUMN IN PLACE
7. NEW DOWNSPOUT
8. NEW PAINT ON EXIT STEEL HEADER

SUMMIT ARCHITECTS + ENGINEERS

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

143 Rosser Ln SARTIGA, KY 41005

FIRST FLOOR REFLECTED CEILING ENLARGED PLANS

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 4/22/2025
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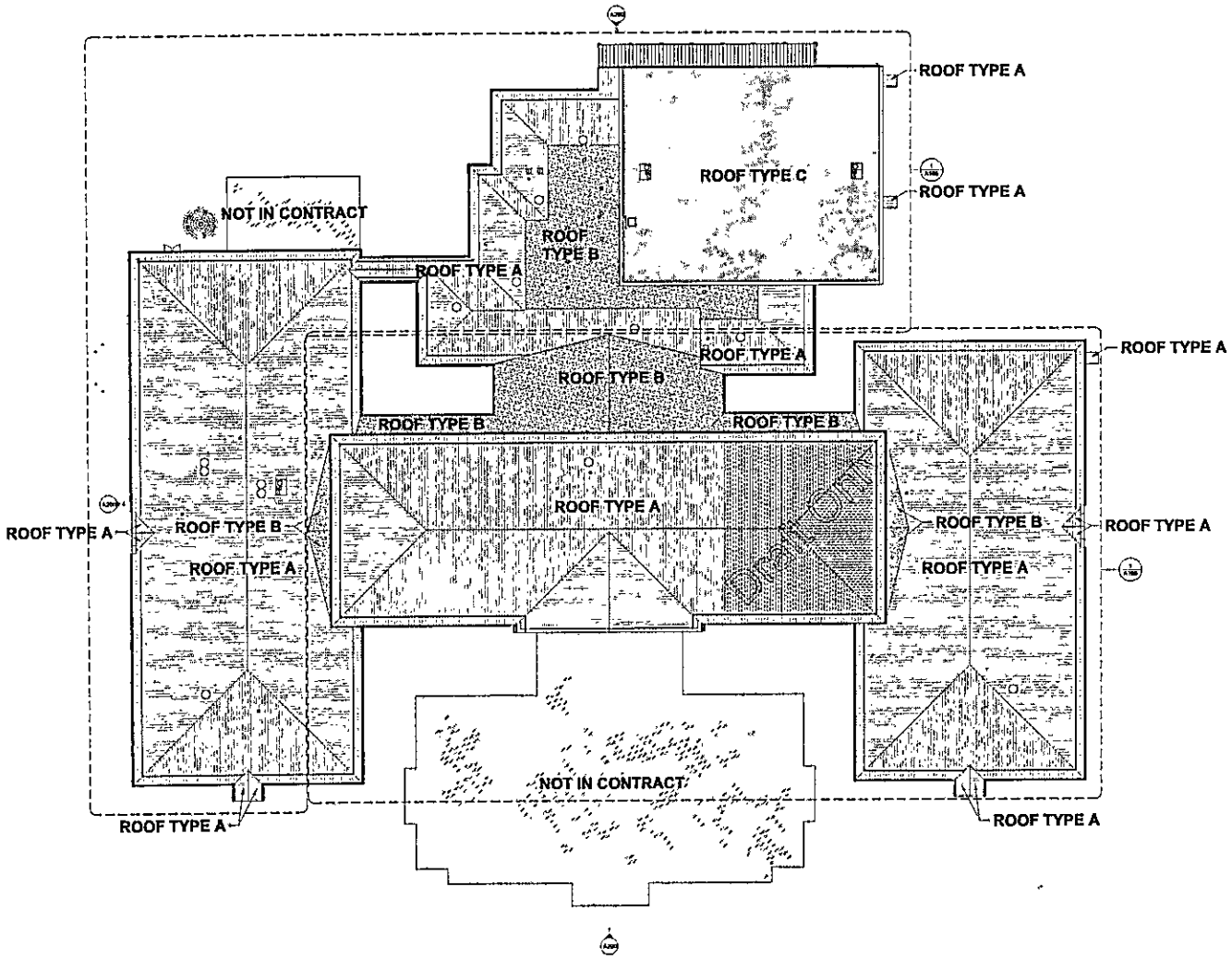

1 A104 SECOND FLOOR ROOF
1/16" = 1'-0"

ROOF PLAN GENERAL NOTES

A. INSTALL NEW DOWNSPOUTS IN SAME LOCATION AS ORIGINAL - ALIGN W/ EXISTING DOWNSPOUT BOOT (VERIFY SIZE AND LOCATION IN FIELD)

B. INSTALL NEW MECHANICAL EQUIPMENT CURBS TO ALLOW 8" MIN CLEAR FROM ROOF TO TOP OF CURB (24" HIGH SIDE OF CURB MINIMUM CRICKET (VERIFY IN FIELD), SEE MECHANICAL PLANS FOR CURB DETAILS.

C. CUT EXISTING VTR BELOW ROOF AND REROUTE SO THAT NEW VTR LOCATION WILL BE CENTERED ON NEW 8" STANDING SEAM METAL ROOF PANEL (VERIFY IN FIELD - TYPICAL ALL LOCATIONS)

D. VERIFY ALL CONDITIONS IN FIELD AND REPORT ANY DISCREPANCIES TO ARCHITECT PRIOR TO START OF WORK

E. INSTALL CONTINUOUS LAYER SELF ADHERED ICE AND WATER SHIELD OVER ENTIRE STANDING SEAM ROOF CONT.

F. VERIFY EXISTING ROOF SLOPE IN FIELD

G. ALL NEW ROOF CURBS SEE MECHANICAL PLANS FOR DETAILS

ROOF LEGEND

ROOF TYPE A:
NEW STANDING SEAM METAL ROOF SYSTEM OVER NEW CONTINUOUS LAYER SELF ADHERED ICE AND WATER SHIELD OVER EXISTING WOOD SHEATHING OVER WOOD TRUSS OVER EXISTING 6" BLOWN-IN INSULATION BELOW AT BOTTOM OF TRUSS (REFER TO DETAIL 8/A106, TYP.)

ROOF TYPE B:
NEW FULLY-ADHERED .060 EPDM MEMBRANE OVER 5/32" THICK WOOD SLATTING OVER WOOD TRUSS OVER 6" BLOWN-IN INSULATION AT BOTTOM OF TRUSS

ROOF TYPE C:
NEW FULLY-ADHERED .060 EPDM MEMBRANE OVER NEW 3 1/2" POLYISOCYANURATE INSULATION OVER EXISTING RMW INSULATION OVER METAL DECK

NOT IN CONTRACT (N.I.C.)

SUMMIT ARCHITECTS + ENGINEERS

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

ROOF PLAN

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 4/22/2025
JOB STATUS: CD
DRAWN BY: ER
CHECKED: KG
PROJECT NO: 166.003
SHEET:

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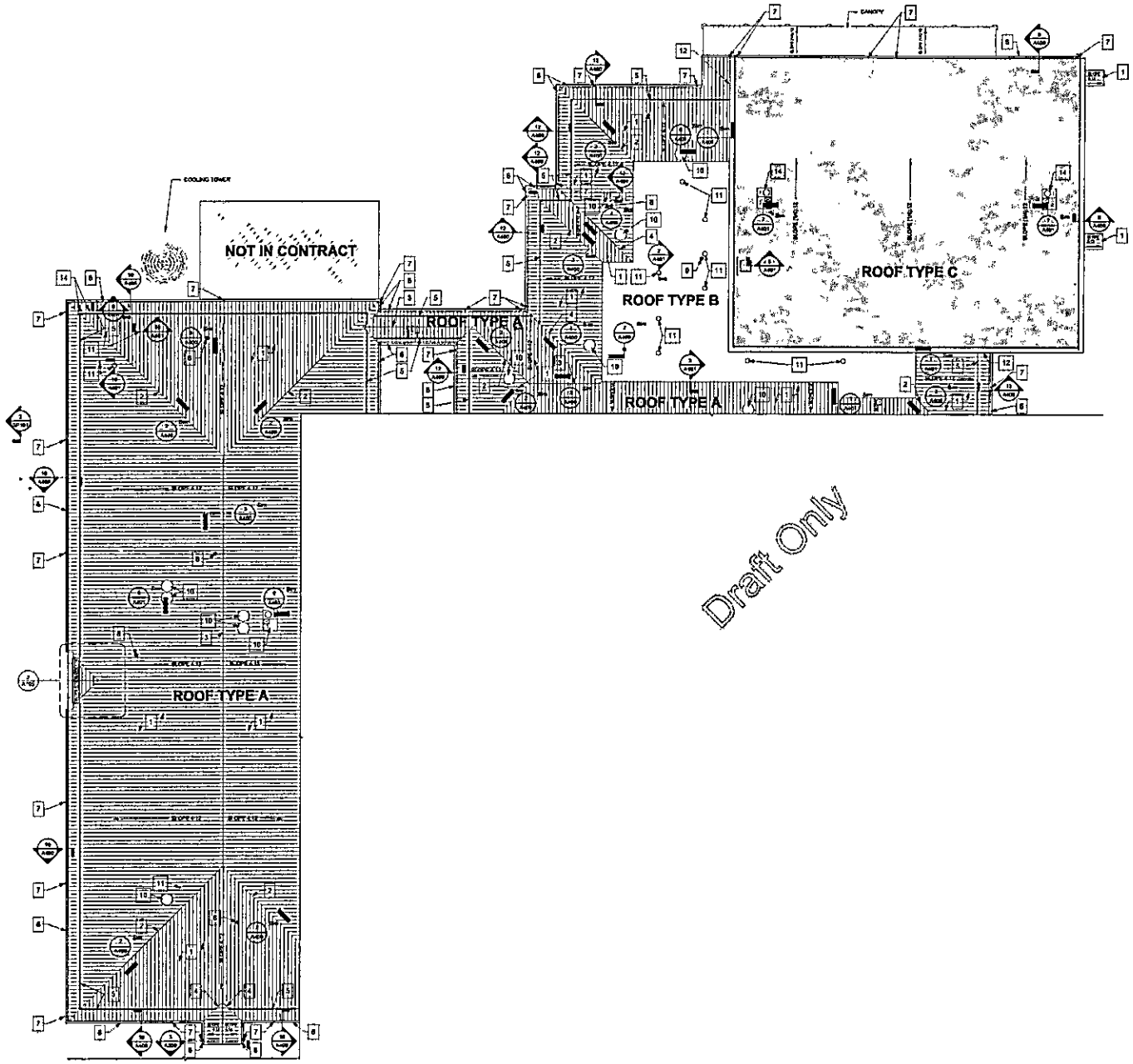


1 A105 SECOND FLOOR ROOF - Callout 1
3/32" = 1'-0"

ROOF PLAN KEY NOTES

1. NEW STANDING SEAM METAL ROOF SYSTEM OVER EXISTING ROOF SYSTEM, SEE DETAIL 5.A406.
2. NEW PREFINISHED METAL RIDGE CAP, SEE DETAIL 2.A406.
3. NEW PREFINISHED METAL RIDGE VENT, SEE DETAIL 3.A406.
4. NEW PREFINISHED METAL VALLEY FLASHING, SEE DETAIL 4A406.
5. TBE MOUNTED SNOW GUARD CONT, SEE DETAIL 5.A406.
6. NEW PREFINISHED METAL GUTTER W/ NEW PREFINISHED METAL FASCIA.
7. NEW 4" X 5" PREFINISHED METAL DOWNSPOUT WITH STRAPS AT 4'-0" O.C. VERTICAL. LOCATE IN SAME LOCATION AS PREVIOUS, ALIGN W/ EXISTING DOWNSPOUT BOOTS VIF.
8. REROUTED VTR, CENTER ON NEW STANDING SEAM METAL ROOF PANEL (VERIFY IN FIELD) REFER TO DETAIL 6/A406.
9. REROUTED VTR, CENTER ON NEW EPDM MEMBRANE (VERIFY IN FIELD) REFER TO DETAIL 7/A406.
10. NEW MECHANICAL EQUIPMENT. EXTEND EXISTING MECHANICAL ROOF TOP EQUIPMENT CURB AND BLOCK CRICKET ON HIGH SIDE OF CURB AS REQUIRED (VERIFY IN FIELD). REFER TO DETAIL 8/A406.
11. EXISTING METAL ROOF VENT, PROVIDE NEW FLASHING
12. NEW RCEB WALL FLASHING BELOW W/ SURFACE MOUNTED RIGOLET AND FLASHING CONT., REFER TO DETAIL 1/A406.
13. 24 GA. NEW METAL COPING, REFER TO DETAIL 8/A406.
14. INSTALL ELECTRICAL DEVICE SALVAGED FROM SAME LOCATION DURING DEMOLITION PHASE - COORD. W/ OWNER.

ROOF PLAN GENERAL NOTES

A. INSTALL NEW DOWNSPOUTS IN SAME LOCATION AS ORIGINAL - ALIGN W/ EXISTING DOWNSPOUT BOOT (VERIFY SIZE AND LOCATION IN FIELD)

B. EXTEND EXISTING MECHANICAL EQUIPMENT CURBS TO ALLOW 8" MIN CLEAR FROM ROOF TO TOP OF CURB ON HIGH SIDE OF CURB ABOVE CRICKET (VERIFY IN FIELD)

C. CUT EXISTING VTR BELOW ROOF AND REROUTE SO THAT NEW VTR LOCATION WILL BE CENTERED ON NEW STANDING SEAM METAL ROOF PANEL (VERIFY IN FIELD) - TYPICAL ALL LOCATIONS

D. VERIFY ALL CONDITIONS IN FIELD AND REPORT ANY DISCREPANCIES TO ARCHITECT PRIOR TO START OF WORK

E. INSTALL 2" HI EPS INSULATION (PLUS FILL) BETWEEN EACH EXISTING TRAPEZOIDAL ROOF PANEL SEAM - CUT TO FIT TIGHT, VERIFY IN FIELD

F. INSTALL ONE LAYER 1 1/2" ROOF INSULATION OVER EPS FLUTE FILL, MECHANICALLY FASTENED

G. INSTALL CONTINUOUS LAYER SELF ADHERED ICE AND WATER SHIELD OVER ENTIRE ROOF CONT.

H. VERIFY EXISTING ROOF SLOPE IN FIELD

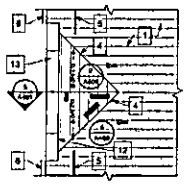
ROOF LEGEND

ROOF TYPE A
NEW STANDING SEAM METAL ROOF SYSTEM OVER NEW CONTINUOUS LAYER SELF ADHERED ICE AND WATER SHIELD OVER EXISTING WOOD SHEATHING OVER WOOD TRUSS (REFER TO DETAIL 1/A406, TYP.)

ROOF TYPE B
NEW FULLY-ADHERED 060 EPDM MEMBRANE OVER EXISTING WOOD SHEATHING OVER WOOD TRUSS

ROOF TYPE C
NEW FULLY-ADHERED 060 EPDM MEMBRANE OVER NEW 2 1/2" POLYISO RIGID INSULATION OVER EXISTING ROOD 8-RIB STEEL DECK OVER METAL DECK

NOT IN CONTRACT (N.I.C.)



2 A105 FOOD SERVICES WING ENTRANCE ROOF
3/16" = 1'-0"

SUMMIT ARCHITECTS • ENGINEERS

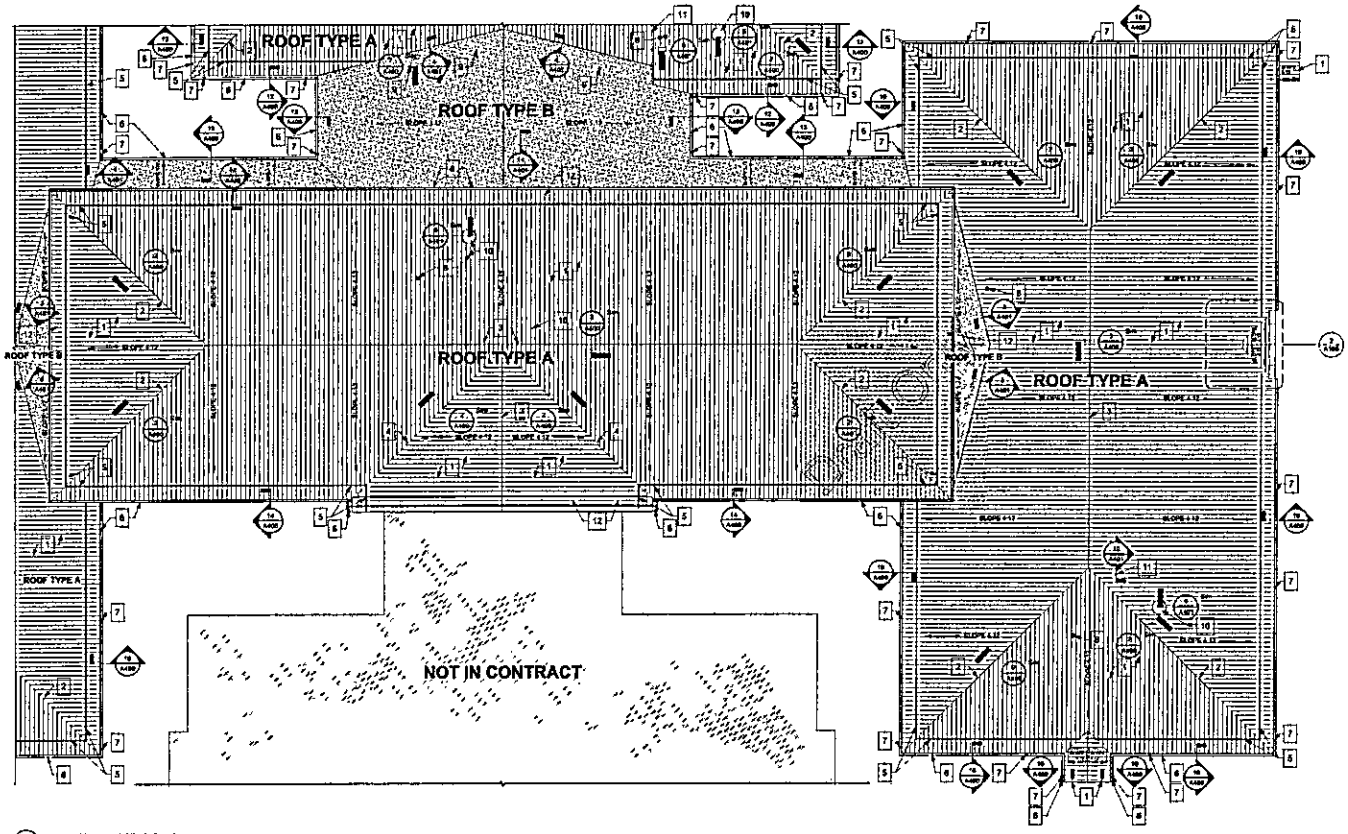
DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

ROOF ENLARGED PLAN 1

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 4/22/2025
JOB STATUS: CD
DRAWN BY: ER
CHECKED: KG
PROJECT NO.: 168.003
SHEET:

A105



1 A106 SECOND FLOOR ROOF - Callout 2
3/32" = 1'-0"

ROOF PLAN KEY NOTES

1. NEW STANDING SEAM METAL ROOF SYSTEM OVER EXISTING ROOF SYSTEM, SEE DETAIL 1/A406.
2. NEW PREFINISHED METAL RIDGE CAP, SEE DETAIL 2/A406.
3. NEW PREFINISHED METAL RIDGE VENT, SEE DETAIL 3/A406.
4. NEW PREFINISHED METAL VALLEY FLASHING, SEE DETAIL 4/A406.
5. RE-MOUNTED SNOW GUARD CONT, SEE DETAIL 5/A406.
6. NEW PREFINISHED METAL GUTTER W/ NEW PREFINISHED METAL FASCIA.
7. NEW 4" X 6" PRE FINISHED METAL DOWNSPOUT WITH STRAPS AT 4'-0" ELEC. VERTICAL. LOCATE IN SAME LOCATION AS PREVIOUS, ALIGN W/ EXISTING DOWNSPOUT BOOTS VIF.
8. REROUTED VTR, CENTER ON NEW STANDING SEAM METAL ROOF PANEL (VERIFY IN FIELD) REFER TO DETAIL 8/A406.
9. REROUTED VTR, CENTER ON NEW EPDM MEMBRANE (VERIFY IN FIELD) REFER TO DETAIL 7/A406.
10. NEW MECHANICAL EQUIPMENT; EXTEND EXISTING MECHANICAL ROOF TOP EQUIPMENT CURB AND SUPPORT CRUSHPIT ON HIGH SIDE OF CURB AS REQUIRED (VERIFY IN FIELD), REFER TO DETAIL 6/A406.
11. EXISTING METAL ROOF VENT, PROVIDE NEW FLASHING
12. NEW ROOF WALL FLASHING BELOW W/ SURFACE MOUNTED REGLET AND FLASHING CONT., REFER TO DETAIL 9/A406.
13. 24 GA. NEW METAL COPING, REFER TO DETAIL 8/A401.
14. INSTALL ELECTRICAL DEVICE SALVAGED FROM SAME LOCATION DURING DEMOLITION PHASE - DOERO, W/ 09A/05

ROOF PLAN GENERAL NOTES

A. INSTALL NEW DOWNSPOUTS IN SAME LOCATION AS ORIGINAL - ALIGN W/ EXISTING DOWNSPOUT BOOT (VERIFY SIZE AND LOCATION IN FIELD)

B. EXTEND EXISTING MECHANICAL EQUIPMENT CURBS TO ALLOW 8" MIN CLEAR FROM ROOF TO TOP OF CURB ON HIGH SIDE OF CURB ABOVE CRICKET (VERIFY IN FIELD)

C. CUT EXISTING VTR BELOW ROOF AND REROUTE SO THAT NEW VTR LOCATION WILL BE CENTERED ON NEW STANDING SEAM METAL ROOF PANEL (VERIFY IN FIELD) - TYPICAL ALL LOCATIONS

D. VERIFY ALL CONDITIONS IN FIELD AND REPORT ANY DISCREPANCIES TO ARCHITECT PRIOR TO START OF WORK

E. INSTALL 3" ISO EPS INSULATION (FLUTE FILL) BETWEEN EACH EXISTING TRAPEZOIDAL ROOF PANEL SLAB - CUT TO FIT TIGHT, VERIFY IN FIELD

F. INSTALL ONE LAYER 1 1/2" ROOF INSULATION OVER EPS FLUTE FILL, MECHANICALLY FASTENED

G. INSTALL CONTINUOUS LAYER SELF ADHERED ICE AND WATER SHIELD OVER ENTIRE ROOF CONT.

H. VERIFY EXISTING ROOF SLOPE IN FIELD

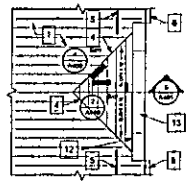
ROOF LEGEND

ROOF TYPE A:
NEW STANDING SEAM METAL ROOF SYSTEM OVER NEW CONTINUOUS LAYER SELF ADHERED ICE AND WATER SHIELD OVER EXISTING WOOD SHEATHING OVER WOOD TRUSS (REFER TO DETAIL 1/A406, TYP.)

ROOF TYPE B:
NEW FULLY-ADHERED .060 EPDM MEMBRANE OVER EXISTING WOOD SHEATHING OVER WOOD TRUSS

ROOF TYPE C:
NEW FULLY-ADHERED .060 EPDM MEMBRANE OVER NEW 3 1/2" POLYISO RIGID INSULATION OVER EXISTING RIGID INSULATION OVER METAL DECK

NOT IN CONTRACT (N.I.C.)



2 A106 LIBRARY WING ENTRANCE ROOF
3/16" = 1'-0"

SUMMIT ARCHITECTS • ENGINEERS

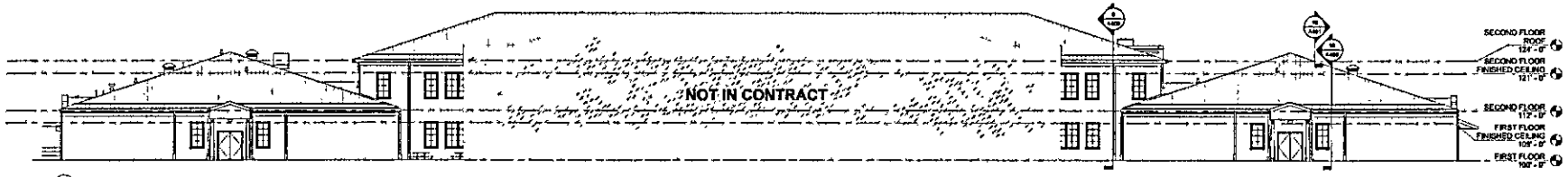
DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

ROOF ENLARGED PLAN 2

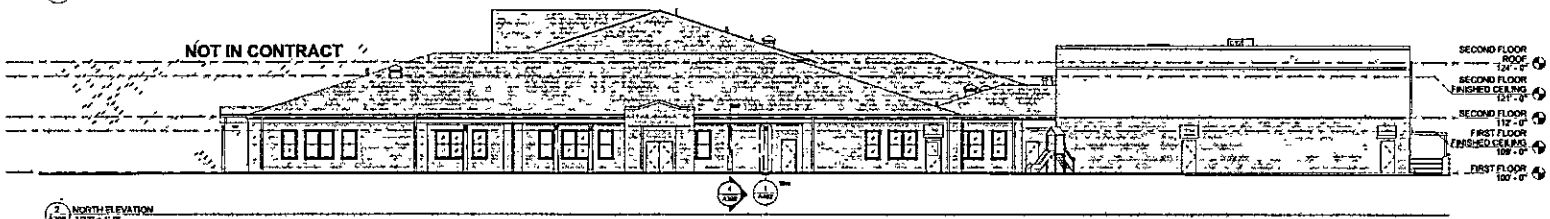
REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 4/22/2025
JOB STATUS: CD
DRAWN BY: ER
CHECKED: KG
PROJECT NO: 166.003
SHEET:

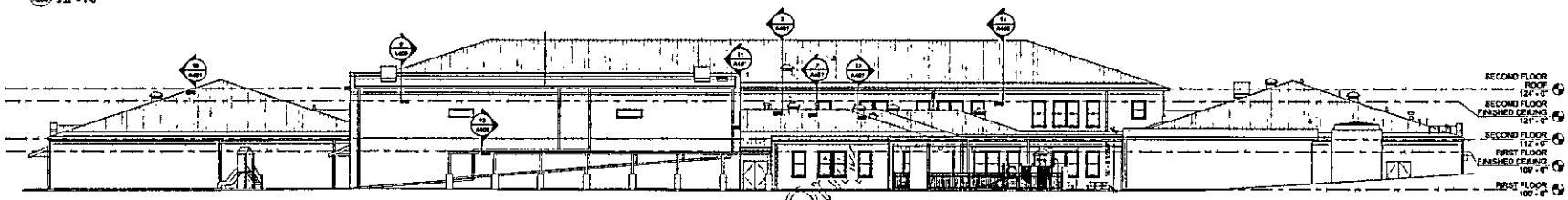
A106



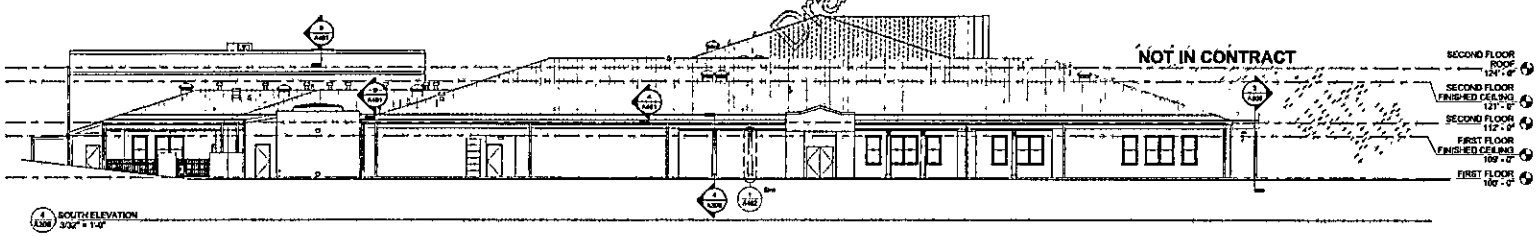
1 A200 EAST ELEVATION 3/32" = 1'-0"



2 A200 NORTH ELEVATION 3/32" = 1'-0"



3 A200 WEST ELEVATION 3/32" = 1'-0"



4 A200 SOUTH ELEVATION 3/32" = 1'-0"

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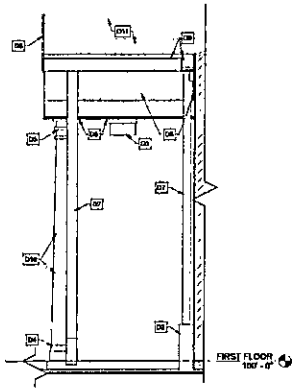
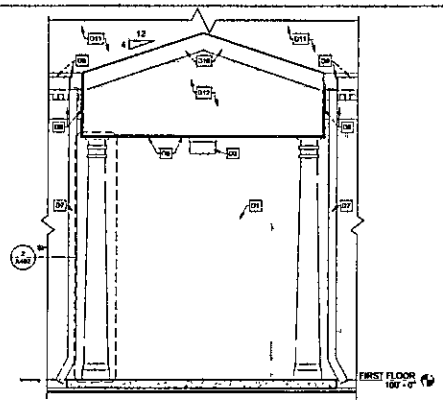


5 A200 EXISTING COLUMN SIDE ELEVATION 1/2" = 1'-0"



6 A200 EXISTING COLUMN FRONT ELEVATION 1/2" = 1'-0"

DEMOLITION GENERAL NOTES:

- CONTRACTOR TO VERIFY ALL EXISTING FIELD CONDITIONS.
- CONTRACTOR TO CONTACT ARCHITECT IF ANY UNKNOWN MATERIALS ARE FOUND DURING THE DEMOLITION PHASE.
- CONTRACTOR TO MAINTAIN ALL EXISTING EGRESS EXITS DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS ASSOCIATED WITH DEMOLITION.
- CONTRACTOR TO MAINTAIN A CLEAN AND SAFE WORK AREA.
- CONTRACTOR TO PROVIDE TEMPORARY BARRICADES TO KEEP THE PUBLIC OUT OF CONSTRUCTION AREAS, TYP.
- REPORT ANY STRUCTURAL DAMAGE OF COLUMNS OR ANY OTHER STRUCTURAL MEMBERS TO ARCHITECT.

DEMOLITION KEY NOTES:

D1. DOOR TO REMAIN
D2. DOWNSPOUT BOOT AND ASSOCIATED PIPING TO REMAIN
D3. LIGHT FIXTURE TO REMAIN
D4. REMOVE BASE
D5. REMOVE CAP
D6. REMOVE EXISTING CEILING AND ALL CEILING BOX COVER PLATES
D7. REMOVE DOWNSPOUT
D8. REMOVE FASCIA
D9. REMOVE GUTTER
D10. REMOVE SHAFT
D11. REMOVE SHINGLES AND UNDERLAYMENT
D12. REMOVE SIDING

SUMMIT ARCHITECTS + ENGINEERS

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

163 WEBB LN BARTON, KY 41523

EXTERIOR ELEVATIONS / ELEVATION DETAILS

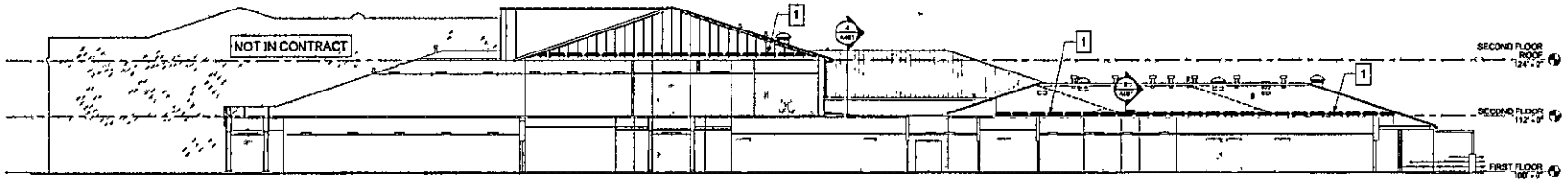
REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 4/22/2025
JOB STATUS: CD
DRAWN BY: ER
CHECKED: KG
PROJECT NO: 166.003
SHEET:

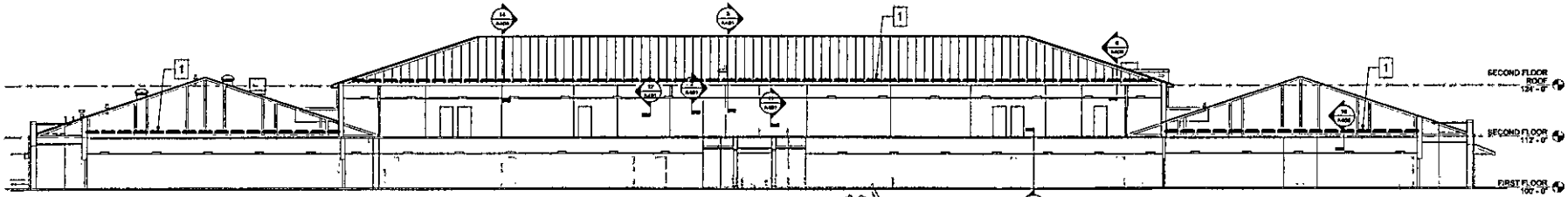
A200

DEMOLITION KEY NOTES:

1. EXISTING 8" BLOWN-IN INSULATION



1 SECTION 1 REFERENCE
A300 1" = 10'-0"



2 SECTION 2 REFERENCE
A300 1" = 10'-0"

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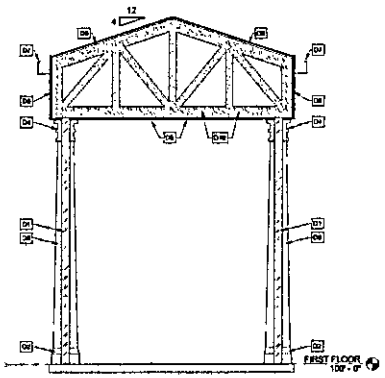
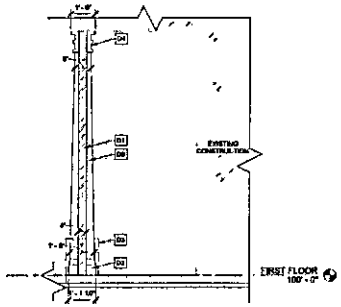


3 COLUMN FRONT SECTION
A300 1/2" = 1'-0"



4 COLUMN SIDE SECTION
A300 1/2" = 1'-0"

DEMOLITION GENERAL NOTES:

- CONTRACTOR TO VERIFY ALL EXISTING FIELD CONDITIONS.
- CONTRACTOR TO CONTACT ARCHITECT IF ANY UNKNOWN MATERIALS ARE FOUND DURING THE DEMOLITION PHASE.
- CONTRACTOR TO MAINTAIN ALL EXISTING EGRESS EXITS DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS ASSOCIATED WITH DEMOLITION.
- CONTRACTOR TO MAINTAIN A CLEAN AND SAFE WORK AREA.
- CONTRACTOR TO PROVIDE TEMPORARY BARRICADES TO KEEP THE PUBLIC OUT OF CONSTRUCTION AREAS, TYP.
- REPORT ANY STRUCTURAL DAMAGE OF COLUMNS OR ANY OTHER STRUCTURAL MEMBERS TO ARCHITECT.

DEMOLITION KEY NOTES:

D1. COLUMN TO REMAIN, CLEAN
D2. REMOVE BASE
D3. REMOVE BASE COVER (IF ONE EXISTS)
D4. REMOVE CAP
D5. REMOVE EXISTING CEILING AND ALL CEILING BOX COVER PLATES
D6. REMOVE FASCIA
D7. REMOVE GUTTER
D8. REMOVE SHAFT
D9. REMOVE SHINGLES AND UNDERLAYMENT
D10. TRUSS TO REMAIN

SUMMIT ARCHITECTS + ENGINEERS
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Building 2, Suite 200
Plano, Texas 75074
972.731.2233
Texas Registered Architect Firm F-2439
500 Technology Drive, Suite 550
Weldon Spring, MO 63304
636.530.9292
Texas Registered Architect Firm F-2439

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

145 ROBBIE LN EASTERN, KY 41026

BUILDING SECTIONS / COLUMN SECTIONS

REVISIONS		
NO.	DESCRIPTION	DATE

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DATE	4/22/2025
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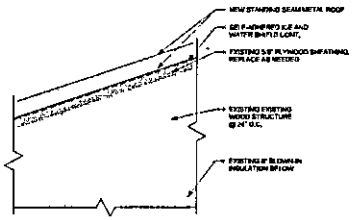
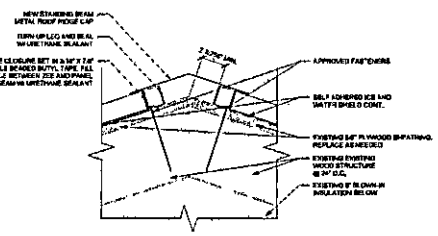
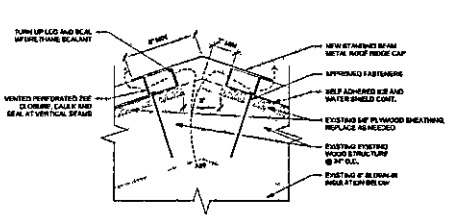
CHECKED:	KG
PROJECT NO	166.003
SHEET:	A300



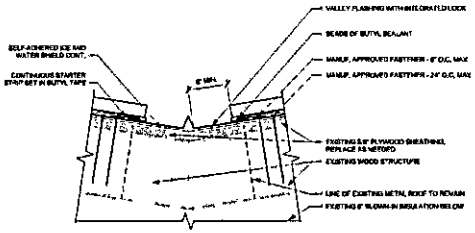
1 A400 STANDING SEAM METAL ROOF
3" = 1'-0"



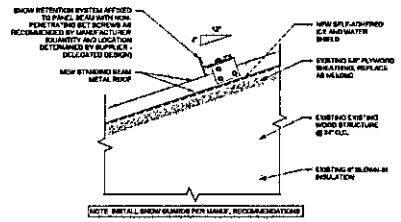
2 A400 RIDGE DETAIL (HIP SIM)
3" = 1'-0"



3 A400 RIDGE VENT DETAIL
3" = 1'-0"

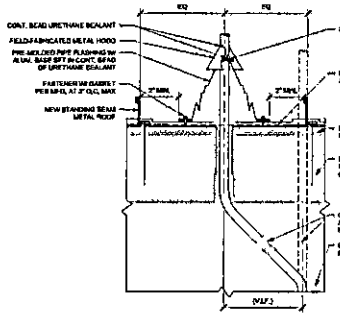


4 A400 TYPICAL VALLEY FLASHING
3" = 1'-0"

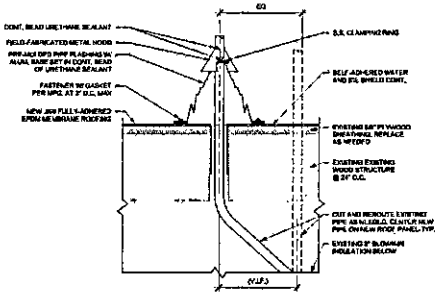


NOTE: INSTALL SNOW GUARDS PER MANUF. RECOMMENDATIONS

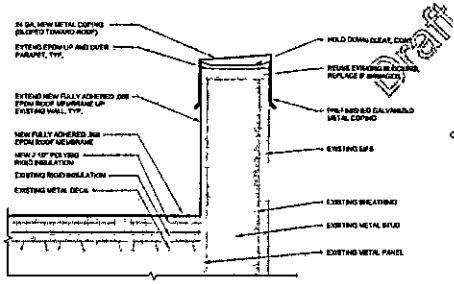
5 A400 SNOW GUARD
3" = 1'-0"



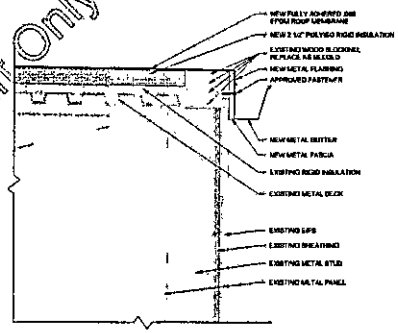
6 A400 PIPE PENETRATION (ROOF TYPE A)
3" = 1'-0"



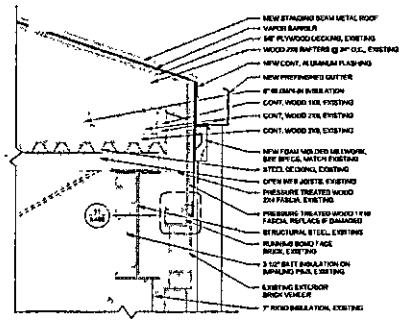
7 A400 PIPE PENETRATION (ROOF TYPE B)
3" = 1'-0"



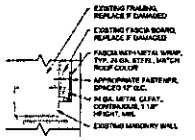
8 A400 GYM PARAPET SECTION
1 1/2" = 1'-0"



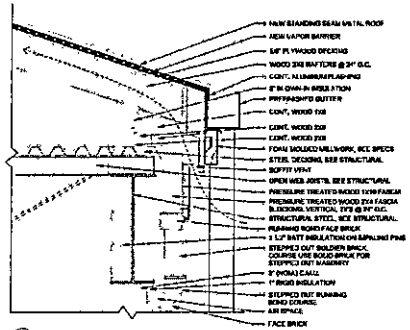
9 A400 GYM GUTTER SECTION
1 1/2" = 1'-0"



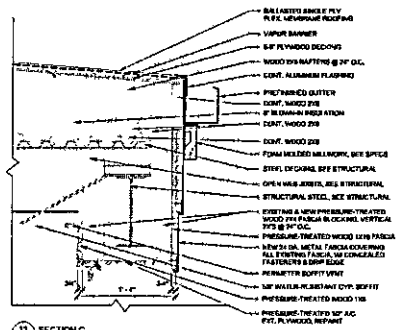
10 A400 SECTION A
1 1/2" = 1'-0"



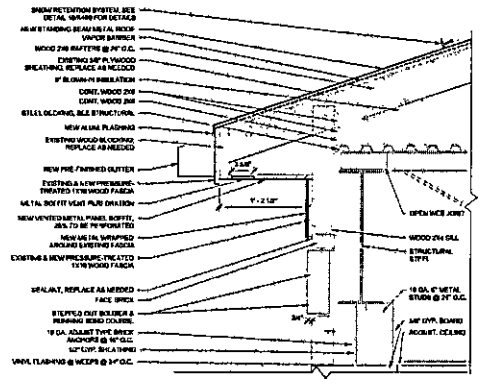
11 A400 SECTION A - Callout 1
3" = 1'-0"



12 A400 SECTION B
1 1/2" = 1'-0"



13 A400 SECTION C
1 1/2" = 1'-0"



14 A400 SECTION D
1 1/2" = 1'-0"

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SUMMIT ARCHITECTS + ENGINEERS

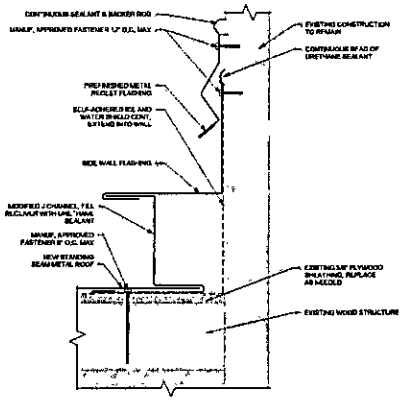
DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

ROOF DETAILS

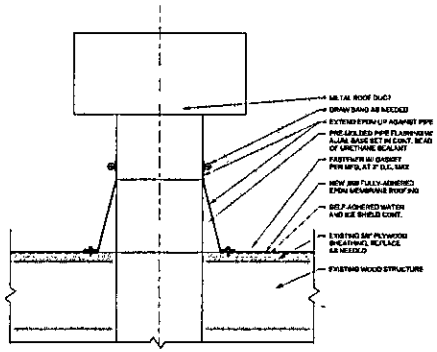
NO.	REVISIONS / DESCRIPTION	DATE

DATE 4/22/2025
JOB STATUS: CD
DRAWN BY: ER
CHECKED: KG
PROJECT NO: 166.003
SHEET:

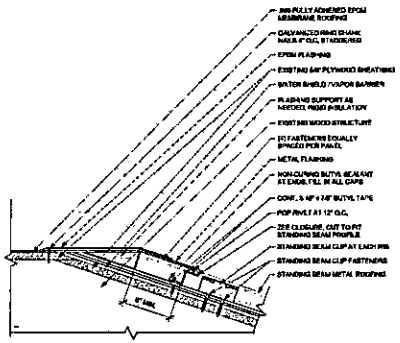
A400



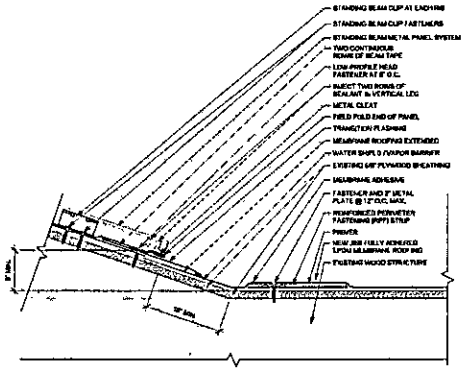
1 A401 SIDEWALL FLASHING WITH MODIFIED J-CHANNEL
3" = 1'-0"



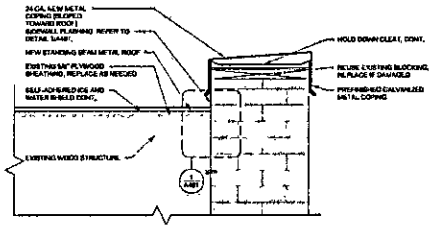
2 A401 ROOF DUCT SECTION
3" = 1'-0"



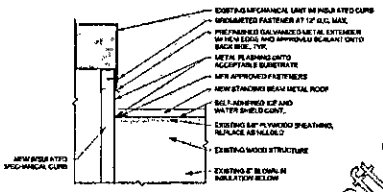
3 A401 EPDM TO STANDING SEAM TRANSITION SECTION
3" = 1'-0"



4 A401 STANDING SEAM TO EPDM TRANSITION SECTION
3" = 1'-0"

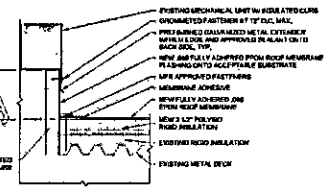


5 A401 SIDE ENTRANCE ROOF SECTION
1 1/2" = 1'-0"



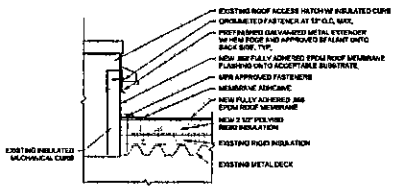
NOTE: INSTALL TAPERED INSULATION CRICKET ON HIGH SIDE OF CURBS, MAINTAIN 1/4" / FOOT POSITIVE SLOPE TO DRAIN MIN. (TYPICAL ALL)

6 A401 EQUIPMENT CURB, TYP. (ROOF TYPE A)
1 1/2" = 1'-0"



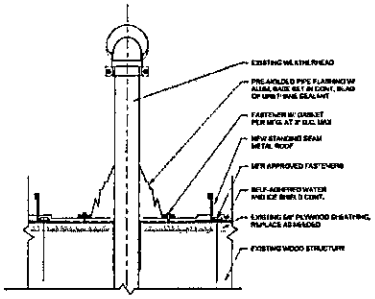
NOTE: INSTALL TAPERED INSULATION CRICKET ON HIGH SIDE OF CURBS, MAINTAIN 1/4" / FOOT POSITIVE SLOPE TO DRAIN MIN. (TYPICAL ALL)

7 A401 EQUIPMENT CURB, TYP. (ROOF TYPE C)
1 1/2" = 1'-0"

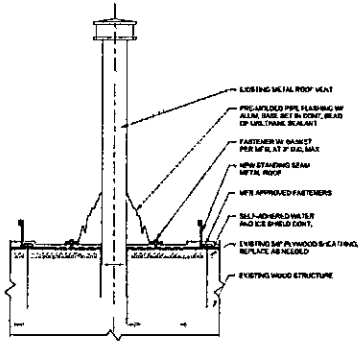


NOTE: INSTALL TAPERED INSULATION CRICKET ON HIGH SIDE OF CURBS, MAINTAIN 1/4" / FOOT POSITIVE SLOPE TO DRAIN MIN. (TYPICAL ALL)

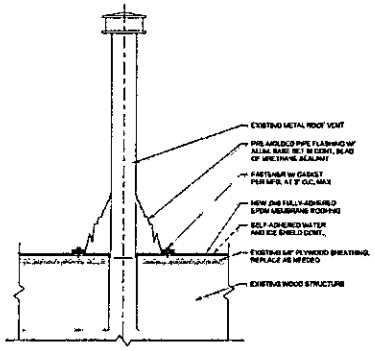
8 A401 ROOF ACCESS HATCH SECTION
1 1/2" = 1'-0"



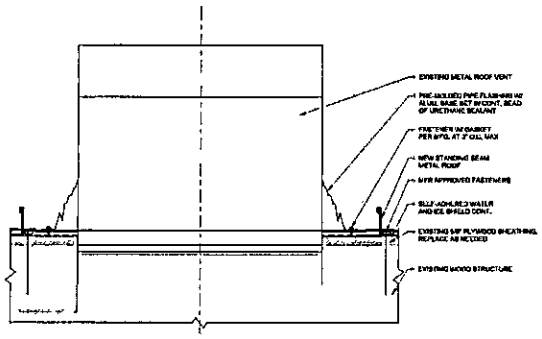
9 A401 WEATHERHEAD SECTION
3" = 1'-0"



10 A401 ROUND METAL ROOF VENT SECTION (ROOF TYPE A)
3" = 1'-0"



11 A401 ROUND METAL ROOF VENT SECTION (ROOF TYPE B)
3" = 1'-0"



12 A401 SQUARE METAL ROOF VENT SECTION
3" = 1'-0"

SUMMIT ARCHITECTS + ENGINEERS

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

ROOF DETAILS

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 4/22/2025
JOB STATUS: CD
DRAWN BY: ER
CHECKED: KG
PROJECT NO. 165.003
SHEET:

A401

Draft Only

GENERAL NOTES:

- CAP/BASES ARE MADE FROM FIBERGLASS UNLESS OTHERWISE INDICATED.
- COLUMN SHAFT, CAP, AND BASE MUST BE SANDED, PRIMED AND PAINTED.
- COLUMNS CAN BE TRIMMED FROM THE BOTTOM OF THE SHAFT ON SITE IF NECESSARY.
- COLUMNS CAN BE SPLIT FOR USE AROUND STRUCTURAL MEMBERS BUT ARE NO LONGER CONSIDERED LOAD-BEARING.
- DECORATIVE CAPS ARE CAST AND WILL HAVE SLIGHT VOIDS THAT ONCE PAINTED WILL NOT BE NOTICEABLE.
- IF CAPS ARE REMAINING, FILL CAPS AS PER COLUMN MANUFACTURER'S RECOMMENDATION.

NEW COLUMN WRAP KEY NOTES:

1. PAINT OVER ANY EXISTING SURFACE RUST
2. PLACE SQUARE BASE
3. PLACE SQUARE CAP
4. PLACE SQUARE COLUMN WRAP

NEW COLUMNS HEIGHTS:

27 COLUMNS TOTAL:

8x – 10'-3"

10x – 10'-2 ½"

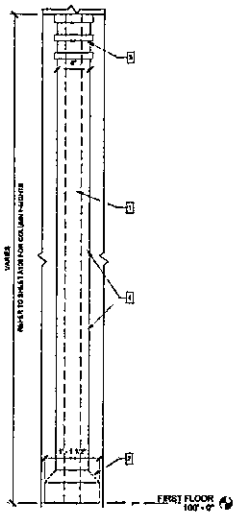
3x- 10' – 1 ½"

1x – 9'-11"

2x- 9'-7½"

2x- 9'-7"

Draft Only



1 A402 FULL SIZE COLUMN, NEW
1" = 1'-0"

DEMOLITION GENERAL NOTES:

- CONTRACTOR TO VERIFY ALL EXISTING FIELD CONDITIONS.
- CONTRACTOR TO CONTACT ARCHITECT IF ANY UNKNOWN MATERIALS ARE FOUND DURING THE DEMOLITION PHASE.
- CONTRACTOR TO MAINTAIN ALL EXISTING EGRESS EXITS DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS ASSOCIATED WITH DEMOLITION.
- CONTRACTOR TO MAINTAIN A CLEAN AND SAFE WORK AREA.
- CONTRACTOR TO PROVIDE TEMPORARY BARRICADES TO KEEP THE PUBLIC OUT OF CONSTRUCTION AREAS, TYP.
- REPORT ANY STRUCTURAL DAMAGE OF COLUMNS OR ANY OTHER STRUCTURAL MEMBERS TO ARCHITECT.

DEMOLITION KEY NOTES:

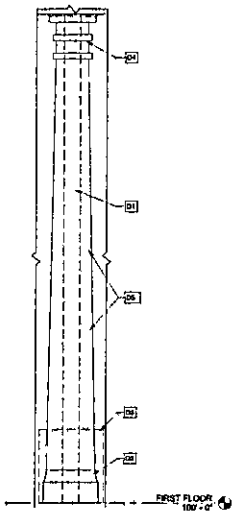
D1. COLUMN TO REMAIN, CLEAN

D2. REMOVE BASE

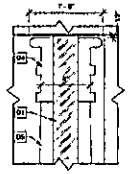
D3. REMOVE BASE COVER (IF ONE EXISTS)

D4. REMOVE CAP

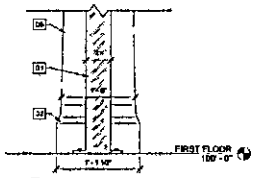
D5. REMOVE COLUMN SHAFT



2 A402 FULL SIZE COLUMN, EXISTING
1" = 1'-0"



7 A402 COLUMN TOP SECTION
1 1/2" = 1'-0"



8 A402 COLUMN BOTTOM SECTION
1 1/2" = 1'-0"

SUMMIT ARCHITECTS + ENGINEERS

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

103 RIDGE LN BASTIAN, VA 24323

COLUMN DETAILS

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 4/22/2025
JOB STATUS: CD
DRAWN BY: ER
CHECKED: KG
PROJECT NO: 19&003
SHEET:

A402

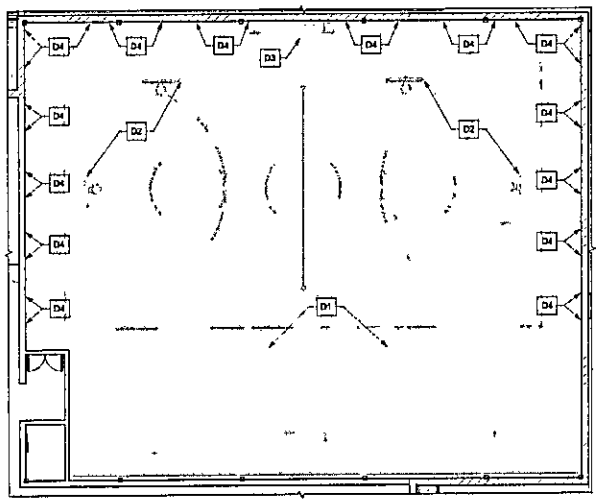
DEMOLITION GENERAL NOTES:

- VERIFY ALL FIELD CONDITIONS AND DIMENSIONS.
- DO NOT SCALE DRAWINGS.
- CONTACT PRINCIPAL BEFORE ENTERING JOB SITE.
- KEEP WORK AREA SAFE AND CLEAR OF ALL DEBRIS.
- CONTACT ARCHITECT IF ANY UNFORESEEN ISSUES ARISE.
- TURN OVER ANY USED EQUIPMENT TO OWNER, AT OWNER'S REQUEST.
- PROVIDE TRAINING TO ALL STAFF THAT WILL OPERATE EQUIPMENT.
- PROTECT EXISTING PLAYING SURFACE FROM DAMAGE DURING INSTALLATION.
- CLEAN WORK AREA BEFORE NEW INSTALLATION BEGINS.
- CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF EXISTING EQUIPMENT.
- IDENTIFY ALL POWER AND COMMUNICATIONS EQUIPMENT.
- PROVIDE A WORK SCHEDULE TO ARCHITECT AND OWNER.
- MINIMIZE SITE ACCESS AND MATERIAL STORAGE LOCATIONS WITH PRINCIPAL.
- COORDINATE INSTALLATION WITH APPROVED BLEACHER SHOP DRAWINGS.
- PROVIDE ADA REMOVABLE AREAS FOR HANDICAPPED ACCESSIBILITY.

DEMOLITION GYMNASIUM PLAN KEY NOTES:

01. CONTRACTOR TO REMOVE EXISTING BLEACHERS AND RELATED EQUIPMENT, TYP.
02. REMOVE EXISTING BACKBOARD PADDING
03. REMOVE EXISTING SCORER'S TABLE
04. REMOVE EXISTING WALL PADDING

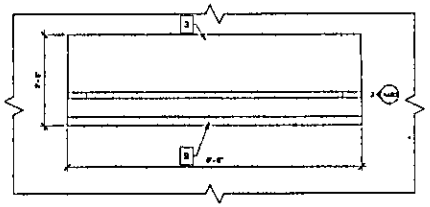
NOTES: ELECTRICAL AND MECHANICAL ITEMS ARE SHOWN FOR COORDINATION ONLY. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.



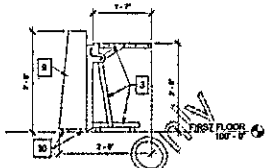
1 A403 EXISTING BLEACHER SYSTEM (DEMOLITION) 1/8" = 1'-0"

NEW GYMNASIUM PLAN KEY NOTES:

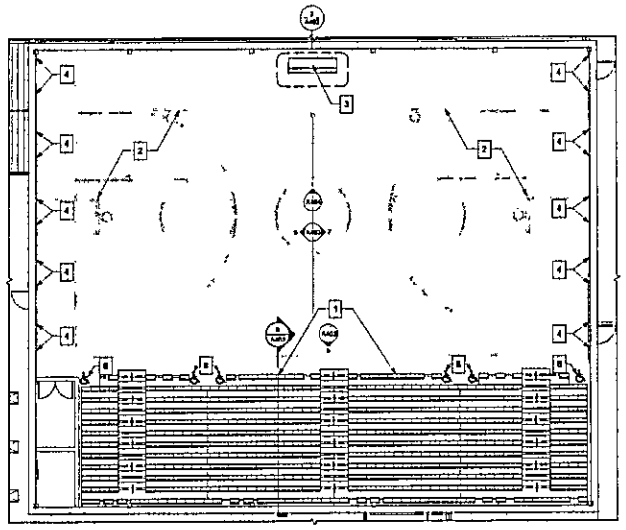
1. INSTALL NEW BLEACHERS AND RELATED EQUIPMENT, TYP.
2. INSTALL NEW BACKBOARD EDGE PADDING
3. INSTALL NEW SCORER'S TABLE, TIE INTO EXISTING POWER AND COMMUNICATIONS
4. INSTALL NEW WALL PADDING, CUT INSERTS AS NEEDED
5. EXISTING STRUCTURE
6. EXISTING LOWER SUB-WOOD GYM FLOOR
7. EXISTING DOOR
8. ADA LOCATION
9. TABLE PADDING
10. FLOOR SAVER TABLE FOOTING



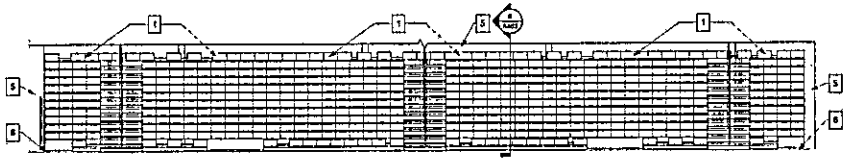
2 A403 SCORER'S TABLE PLAN 3/4" = 1'-0"



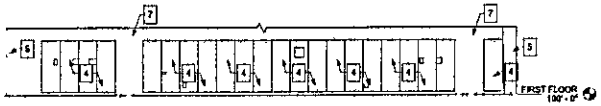
3 A403 SCORER'S TABLE SIDE VIEW 3/4" = 1'-0"



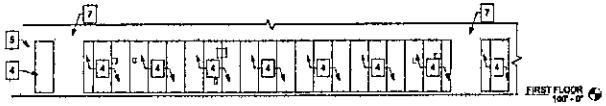
4 A403 NEW BLEACHER SYSTEM 1/8" = 1'-0"



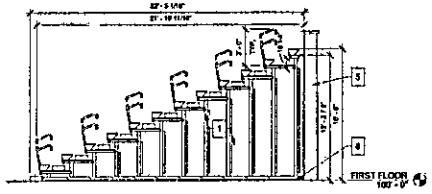
5 A403 NEW BLEACHERS FRONT ELEVATION 3/16" = 1'-0"



6 A403 GYM LEFT WALL ELEVATION 3/16" = 1'-0"



7 A403 PADDING RIGHT WALL ELEVATION 3/16" = 1'-0"



8 A403 NEW BLEACHERS SECTION 1/4" = 1'-0"

SUMMIT ARCHITECTS+ENGINEERS

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

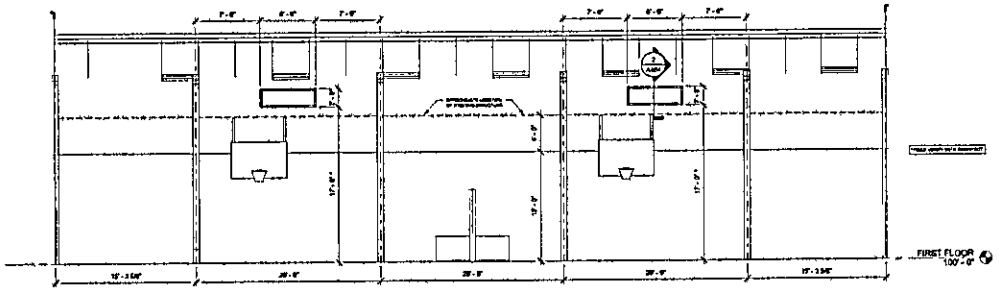
165 INNER LN BASTROP, TX 78602

GYMNASIUM PLAN DEMOLITION / NEW

REVISIONS		
NO.	DESCRIPTION	DATE

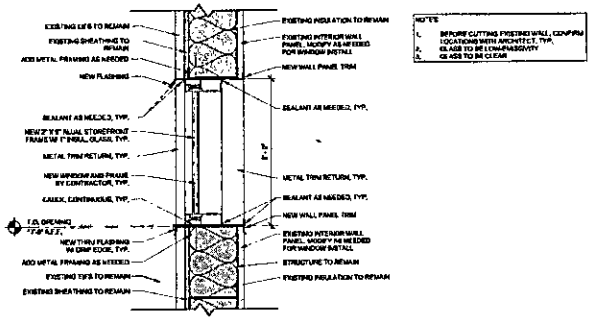
DATE 4/23/2025
JOB STATUS CD
DRAWN BY: ER
CHECKED: KG
PROJECT NO. 164.003
SHEET:

A403



1 A404 GYM REAR WALL ELEVATION
3/16" = 1'-0"

Draft Only



NOTE

1. BEFORE CUTTING EXISTING WALL, CONFIRM LOCATIONS WITH ARCHITECT, TYP.
2. GLASS TO BE LOW-E PASSIVIV
3. GLASS TO BE CLEAR

7 A404 NEW GYM WINDOW SECTION
1 1/2" = 1'-0"

SUMMIT ARCHITECTS+ENGINEERS

DUFF-ALLEN CENTRAL ELEMENTARY RENOVATION

MISCELLANEOUS DETAILS

REVISIONS		
NO.	DESCRIPTION	DATE

DATE 4/22/2025
JOB STATUS CD
DRAWN BY. ER
CHECKED: KG
PROJECT NO. 168.003
SHEET:

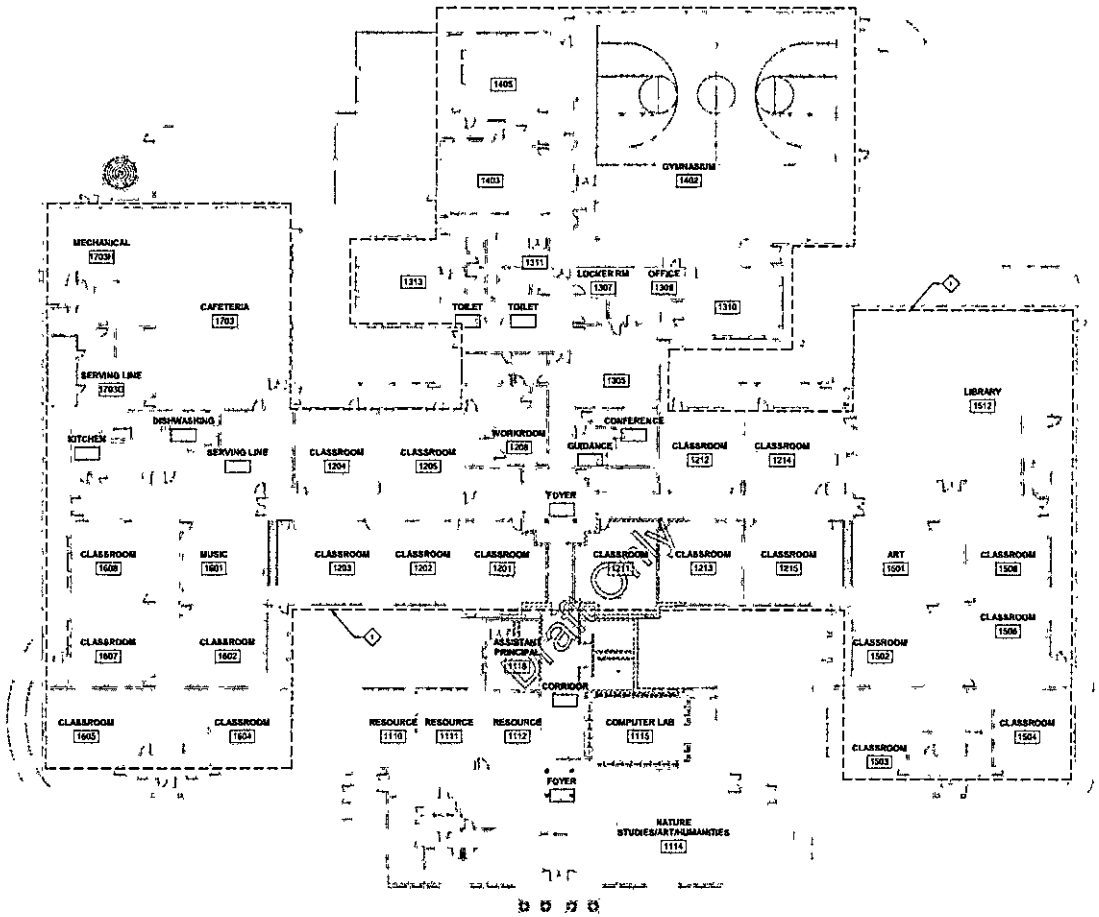
A404

GENERAL NOTES

A. REFER TO DRAWING FMP FOR GENERAL PLUMBING NOTES.

◇ SHEET KEYNOTES

1. REMOVE EXISTING DRY SPRINKLER SYSTEM MAINS IN ATTIC SPACE. DISCONNECT SPRIGS AND SPRINKLER HEADS FOR NEW MAINS. FIELD VERIFY PIPING LOCATION.



1 FIRST FLOOR - FIRE PROTECTION DEMOLITION
SCALE: 1/16" = 1'-0"

Kentucky 811

SUMMIT ARCHITECTS • ENGINEERS

SHROUT TATE WILSON ELECTRICAL AND MECHANICAL SERVICES

DUFF-ALLEN CENTRAL ELEMENTARY

FIRST FLOOR - FIRE PROTECTION DEMOLITION

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 6-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 166.003
SHEET:

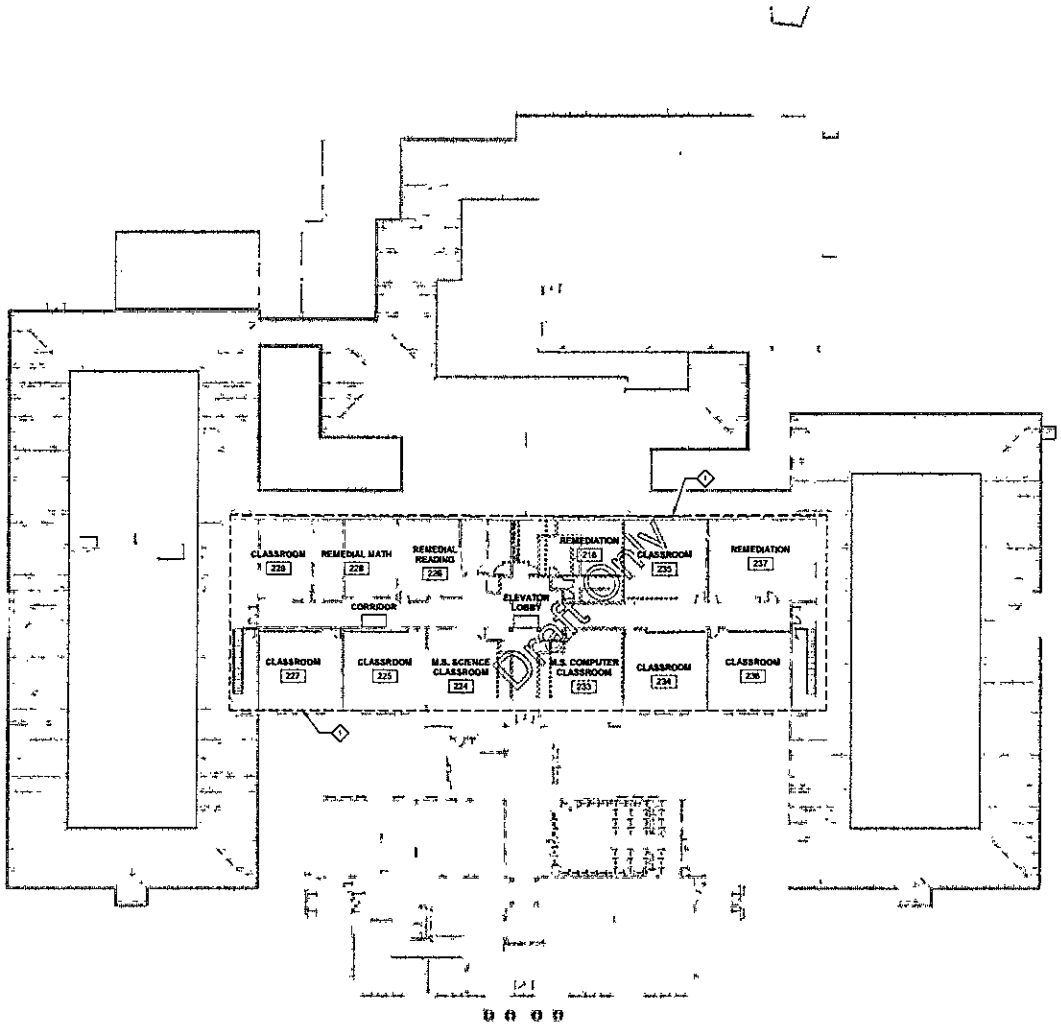
FPD101

GENERAL NOTES

A. REFER TO DRAWING FP001 FOR GENERAL PLUMBING NOTES.

SHEET KEYNOTES

1. SHEET NOTES



1 SECOND FLOOR - FIRE PROTECTION DEMOLITION

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

Kentucky 811

SUMMIT ARCHITECTS+ENGINEERS

SHROUT TATE WILSON

DUFF-ALLEN CENTRAL ELEMENTARY

SECOND FLOOR - FIRE PROTECTION DEMOLITION

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 6-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 166.003
SHEET:

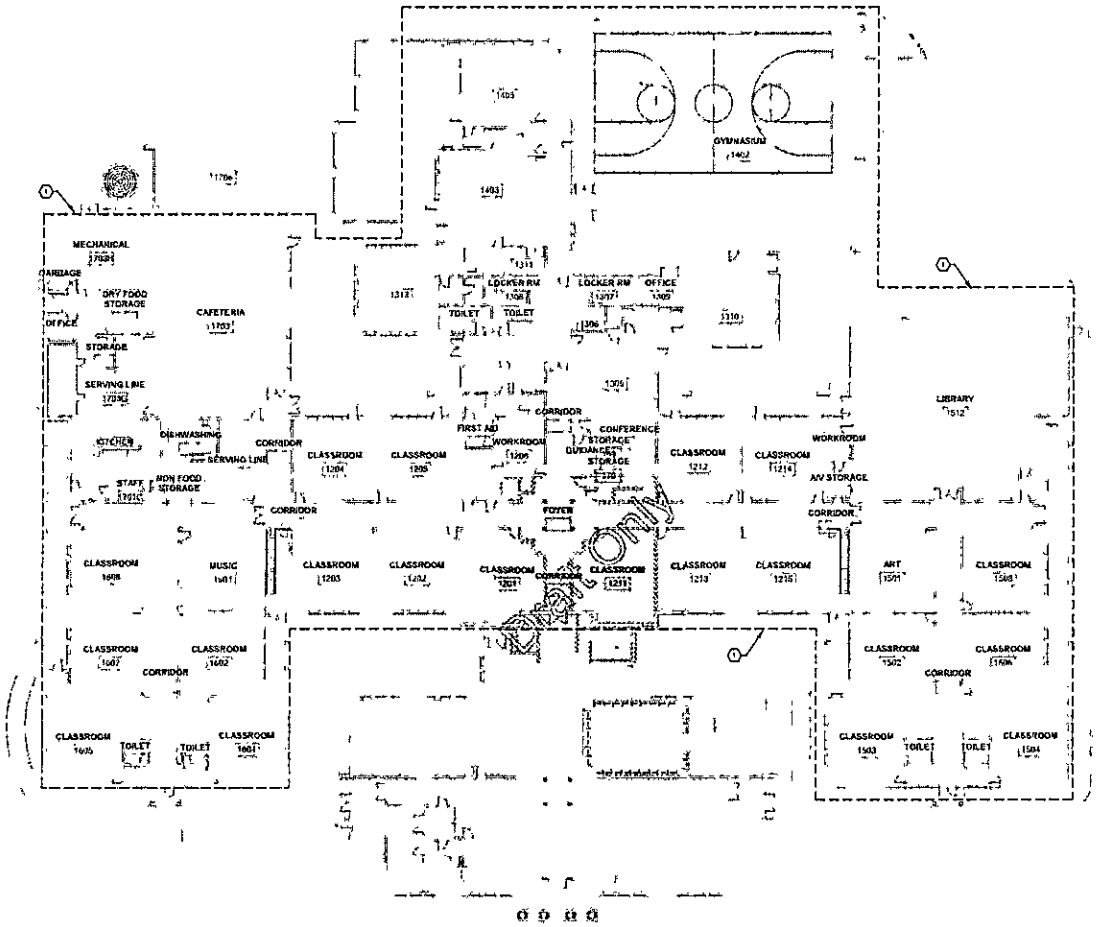
FPD102

GENERAL NOTES

A. REFER TO DRAWING P001 FOR GENERAL PLUMBING NOTES.

SHEET KEYNOTES

1. REMOVE NEW DRY SPRINKLER SYSTEM MAIN PIPING. RE-INSTALL SPRIGS AND SPRINKLER HEADS TO MAIN.



1 FIRST FLOOR - FIRE PROTECTION
SCALE: 1/16" = 1'-0"

Kentucky811

SUMMIT ARCHITECTS • ENGINEERS

SHROUT TATE WILSON MECHANICAL AND ELECTRICAL ENGINEERS
Lexington • Louisville • Charleston
www.stwengs.com

DUFF-ALLEN CENTRAL ELEMENTARY

100 MAIN LN.
EASTERN, KY 40622

FIRST FLOOR - FIRE PROTECTION

REVISION NO.	DESCRIPTION	DATE

DATE: 9-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 164.003
SHEET:

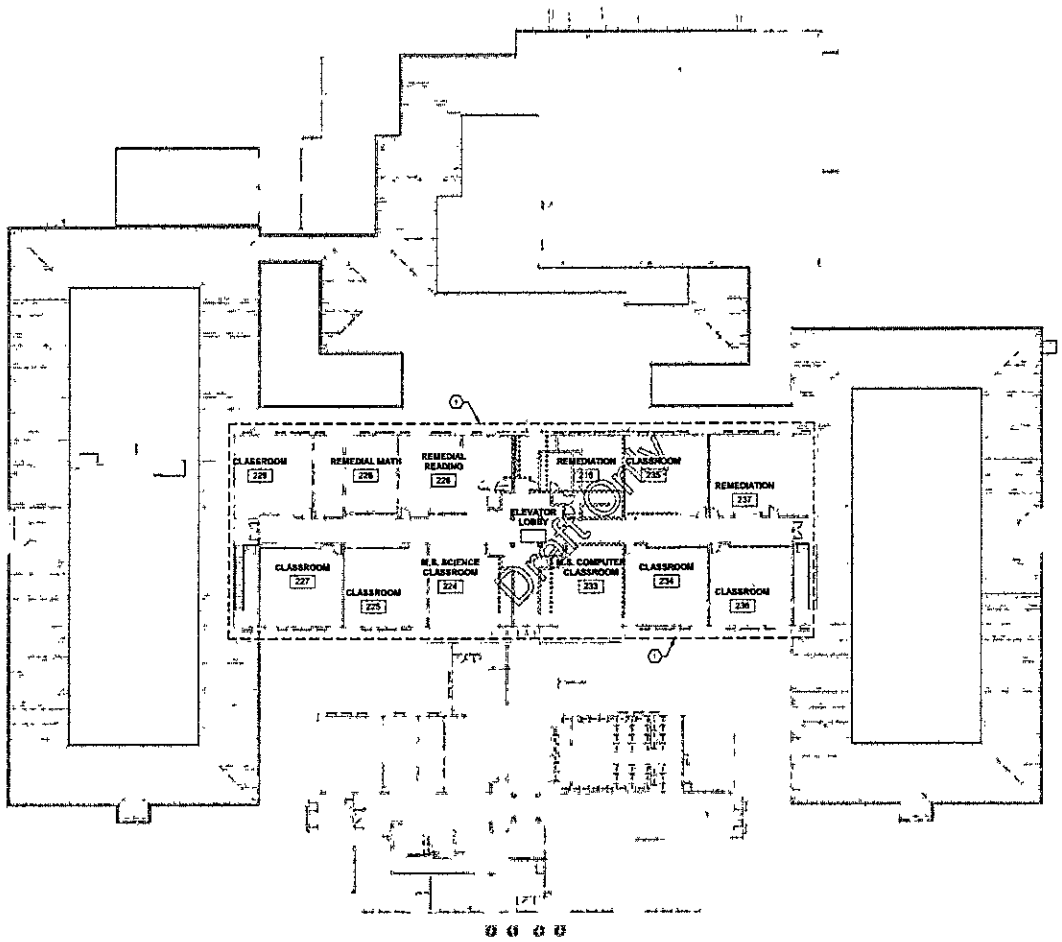
FP101

GENERAL NOTES

A. REFER TO DRAWING P001 FOR GENERAL PLUMBING NOTES.

SHEET KEYNOTES

1. PROVIDE NEW DRY SPRINKLER SYSTEM MAIN PIPING TO INSTALL SPRIDER AND SPRINKLER HEADS TO MAIN.



1 SECOND FLOOR - FIRE PROTECTION
SCALE: 1/8" = 1'-0"

Kentucky 811

SUMMIT ARCHITECTS + ENGINEERS

SHROUT TATE WILSON MECHANICAL AND ELECTRICAL ENGINEERS
Lexington • Louisville • Charleston
www.shroutwilson.com

DUFF-ALLEN CENTRAL ELEMENTARY
100 BRIGG LN.
BARTON, KY 42062

SECOND FLOOR - FIRE PROTECTION

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 9-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 166 003
SHEET
FP102

MECHANICAL LEGEND

HVAC	
SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER (4-WAY, 3-WAY, 2-WAY, 1-WAY)
	SUPPLY AIR DIFFUSER (ROUND)
	RETURN GRILLES
	EXHAUST GRILLES
	FLEXIBLE CONNECTION
	SUPPLY AIR DUCT (UP, DOWN)
	RETURN AIR DUCT (UP, DOWN)
	EXHAUST AIR DUCT (UP, DOWN)
	ACCESS DOOR
	RECTANGULAR TO ROUND DUCTWORK TRANSITION
	RECTANGULAR TO RECTANGULAR TRANSITION
	DUCT CHANGE IN ELEVATION; R= RISE, D= DROP
	DUCT SIZE BACKDRAFT DAMPER (ARROW INDICATES FLOW DIRECTION)
	FIRE DAMPER
	MANUAL VOLUME CONTROL BALANCE DAMPER
	SMOKE DAMPER
	MOTORIZED DAMPER
	COMBINATION - FIRE / SMOKE DAMPER
	ELBOW WITH TURNING VANES
	ELBOW ROUND
	CONNECT NEW TO EXISTING
	INDICATES AIR FLOW DIRECTION
	GATE VALVE (HORIZ. - VERT.)
	GLOBE VALVE (HORIZ. - VERT.)
	BUTTERFLY VALVE (HORIZ. - VERT.)
	BALL VALVE (HORIZ. - VERT.)
	CONTROL VALVE (2-WAY, 3-WAY)
	TRIPLE-DUTY VALVE
	PRESSURE GAUGE
	TEMPERATURE GAUGE / THERMOMETER
	PRESSURE REDUCING VALVE
	STRAINER
	CHECK VALVE
	FLOW INDICATOR
	BALANCE VALVE
	EXISTING PIPING/DUCT/EQUIPMENT TO REMAIN
	EXISTING PIPING/DUCT/EQUIPMENT TO BE REMOVED
	CAP OR PLUG
	PIPE DOWN, PIPE UP
	INCREASER / REDUCER
	FLOW SWITCH (FS)
	FLOW METER (FM)(DDC)
	TEMPERATURE SENSOR (TS)(DDC)
	PRESSURE SENSOR (TS)(DDC)
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	ROOM THERMOSTAT OR DUCT STAT
	SENSOR (CO, CO2, ETC.)
	HUMIDISTAT
	SUPPLY AIR DEVICE (S-1) / AIRFLOW (CFM)
	EQUIPMENT IDENTIFICATION
	DETAIL NO./ SHEET NO.
	SECTION NO./ SHEET NO.
	INDICATED TAG OR SHEET NOTE
	DEMOLITION NOTE
	REVISION TAG
	EXTENT OF DEMOLITION
	EXPANSION JOINT
	PIPE ANCHOR
	COMBINATION FLOW INDICATOR / BALANCING (4"-SMALLER)
	COMBINATION FLOW INDICATOR / BALANCING (5"-LARGER)
	TEMP / PRESS. RELIEF VALVE
	FLANGED CONNECTION
	UNION
	FLEXIBLE CONNECTION
	PUMP

HVAC	
SYMBOL	DESCRIPTION
— CD —	CONDENSATE DRAIN LINE
— CWR —	CHILLED WATER RETURN PIPING
— CWS —	CHILLED WATER SUPPLY PIPING
— EA —	EXHAUST AIR DUCTWORK
— HR —	HYDRONIC RETURN PIPING
— HS —	HYDRONIC SUPPLY PIPING
— HPR —	HIGH PRESSURE RETURN
— HPS —	HIGH PRESSURE STEAM
— HWR —	HOT WATER RETURN PIPING
— HWS —	HOT WATER SUPPLY PIPING
— LPR —	LOW PRESSURE RETURN
— LPS —	LOW PRESSURE STEAM
— MPR —	MEDIUM PRESSURE RETURN
— MPS —	MEDIUM PRESSURE STEAM
— OA —	OUTSIDE AIR DUCTWORK
— R —	REFRIGERANT LINE SET PIPING
— RA —	RETURN AIR DUCTWORK
— SA —	SUPPLY AIR DUCTWORK

ABBREVIATIONS	
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU-X	AIR HANDLING UNIT
AS-X	AIR SEPARATOR
ATV	AUTO TEMPERING VALVE
B-X	BOILER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
C	COMMON
CAS-X	VARIABLE REFRIGERANT CASSETTE UNIT
CFM	CUBIC FEET PER MINUTE
CH-X	CHILLER
CT-X	COOLING TOWER
CU-X	CONDENSING UNIT
E-X	EXHAUST AIR DEVICE
EF-X	EXHAUST FAN DESIGNATION
EH-X	ELECTRIC HEATER
ERU-X	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
EXT-X	EXPANSION TANK
FC-X	CLOSED-CIRCUIT FLUID COOLER
FCU-X	FAN COIL UNIT
FZT	FREEZESTAT
GBD	GRAVITY BACKDRAFT DAMPER
GH-X	GRAVITY HOOD
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HP-X	HEAT PUMP UNIT
HT-X	HEAT TRACE
HX-X	HEAT EXCHANGER
KH-X	KITCHEN HOOD
KW	KILOWATT
L-X	LOUVER DESIGNATION
MAU-X	MAKE-UP AIR UNIT
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MOU-X	MINISPLIT OUTDOOR UNIT
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
P-X	PUMP
PRV	PRESSURE REDUCING VALVE
R-X	RETURN AIR DEVICE
RH-X	RADIANT HEATER
RTU-X	ROOFTOP UNIT
S-X	SUPPLY AIR DEVICE
SF-X	SUPPLY FAN DESIGNATION
SP	TOTAL STATIC PRESSURE
T-X	TRANSFER AIR DEVICE
VAV-X	VARIABLE AIR VOLUME BOX
VEF-X	VEHICLE EXHAUST FAN
X	EXISTING

Draft Only

GENERAL NOTES:

A. REFER TO SPECIFICATIONS AND THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

B. ALL MECHANICAL WORK SHALL BE PERFORMED BY A LICENSED MECHANICAL CONTRACTOR.

C. ALL WORK SHALL BE COORDINATED AND SCHEDULED WITH THE CONSTRUCTION MANAGER (CM) OR GENERAL CONTRACTOR (GC), OTHER TRADES, THE OWNER, AND RELATED UTILITY COMPANIES. ALL WORK SHALL COINCIDE WITH THE CONSTRUCTION PHASING PER THE CONTRACT DOCUMENTS OR CONSTRUCTION DOCUMENTS AND/OR AS MODIFIED BY THE CM/GC AND APPROVED BY THE OWNER AND DESIGN TEAM. THE MECHANICAL CONTRACTOR SHALL COORDINATE AND DEVELOP A PHASING PLAN WHERE ONE IS NOT EXPLICITLY SHOWN AND SHALL ENSURE THAT SAID PHASING PLAN IS APPROVED PRIOR TO PROCEEDING WITH WORK. ANY AND ALL DEMOLITION SHALL NOT PERMIT INTERRUPTION OF SERVICE IN AN OCCUPIED BUILDING UNLESS COORDINATED AND APPROVED.

D. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF DUCTWORK, PIPING, EQUIPMENT, AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, VALVE, OR COMPONENT. CONTRACTOR TO PROVIDE ANY ADDITIONAL DUCT OR PIPING OFFSETS AND/OR FITTINGS, INCLUDING DIVIDED DUCTS AND FLATTENED DUCTS, REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES AS ENCOUNTERED IN THE FIELD.

E. THE MECHANICAL CONTRACTOR SHALL OBTAIN A COPY OF THE ENTIRE SET OF CONTRACT DOCUMENTS PRIOR TO BID AND SHALL COORDINATE ROUTING AND INSTALLATION OF MECHANICAL DUCTWORK, PIPING, AND EQUIPMENT WITH ALL OTHER DISCIPLINES AND TRADES INCLUDING BUT NOT LIMITED TO CIVIL, ARCHITECTURAL, STRUCTURAL, FIRE SUPPRESSION, PLUMBING, AND ELECTRICAL.

F. REFER TO THE ENTIRE SET OF CONTRACT DOCUMENTS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS. FURNISH ALL LABOR, MATERIAL, AND EQUIPMENT REQUIRED FOR COMPLETION AND OPERATION OF A FULLY FUNCTIONAL MECHANICAL SYSTEM AND IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO THE KENTUCKY BUILDING CODE, ASHRAE, IMC, IECC, SMACNA, AND NFPA.

G. THE EXACT LOCATIONS OF ALL EQUIPMENT, DUCTS, DIFFUSERS, ETC. SHALL BE COORDINATED WITH ALL OTHER TRADES. CEILING MOUNTED LIGHTING AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL EQUIPMENT. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL DIFFUSER LOCATIONS.

H. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL BELOW SLAB / UNDERGROUND PIPING WITH STRUCTURAL COMPONENTS AND COORDINATING ALL STEPPED FOOTINGS OR SLEEVES WHERE REQUIRED.

I. THE MECHANICAL DRAWINGS REFLECT A "BASIS OF DESIGN" HVAC SYSTEM THAT HAS BEEN DESIGNED AROUND SPECIFIC PRODUCTS/MANUFACTURERS (SEE SCHEDULES). THE SELECTION OF A "BASIS OF DESIGN" HAS INFLUENCED THE DESIGNS OF OTHER TRADES (ELECTRICAL, STRUCTURAL, ETC.). THE CONTRACTOR MAY USE "NON-BASIS OF DESIGN" PRODUCTS/MANUFACTURERS AS PERMITTED BY THE SPECIFICATIONS AND/OR CONTRACT DOCUMENTS. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM THE USE OF "NON-BASIS OF DESIGN" EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR. IF "NON-BASIS OF DESIGN" MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID, SUBMITTED, OR INSTALLED, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND ALL OF HIS OR HER SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE USE OF "NON-BASIS OF DESIGN" EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND SHALL BE INCLUDED IN THE BID. SUBSEQUENTLY, ANY ADDITIONAL COST BORNE BY THE ENGINEER (MECHANICAL, ELECTRICAL, ETC.) TO ACCOMMODATE "NON-BASIS OF DESIGN" EQUIPMENT SHALL BE BORNE BY THE CONTRACTOR AND PAID TO THE ENGINEER OF RECORD DURING SUBMITTALS.

J. EQUIPMENT OR MATERIALS AS ALLOWED BY THE SPECIFICATIONS AND/OR CONTRACT DOCUMENTS, WHICH ARE INSTALLED AND SUBSEQUENTLY VIEWED UNSATISFACTORY BY THE OWNER AND/OR ENGINEER WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.

K. CONTRACTOR SHALL VISIT THE JOB SITE, FIELD VERIFY FIT, COORDINATE WITH OTHER TRADES, AND BECOME FAMILIAR WITH ALL PROJECT CONDITIONS PRIOR TO FABRICATING DUCTWORK, INSTALLING EQUIPMENT, ETC. NO ALLOWANCES WILL BE MADE FOR LACK THEREOF.

L. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COSTS FOR ALL PERMITS, TESTING, AND INSPECTIONS.

M. CONTRACTOR TO REMOVE UNUSED/ABANDONED HVAC SYSTEMS AND EQUIPMENT UNLESS INDICATED OTHERWISE ON THE CONTRACT DOCUMENTS.

N. COORDINATE WITH THE CONTRACT DOCUMENTS AND PROVIDE TEMPORARY HEAT AS REQUIRED.

O. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS BUT NOT SHOWN ON PLANS AND VICE VERSA, SHALL BE PROVIDED AS IF REQUIRED BY BOTH.

P. THE ENTIRE MECHANICAL INSTALLATION SHALL BE AS REQUIRED TO MAINTAIN FIRE/SMOKE RATINGS AND/OR "UL" ASSEMBLY RATINGS AS REQUIRED BY THE CONTRACT DOCUMENTS AND AS SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS. SEAL AROUND ALL PENETRATIONS THROUGH ALL FIRE/SMOKE SEPARATIONS AND/OR "UL" RATED ASSEMBLIES. COORDINATE ALL PENETRATIONS WITH THE CONSTRUCTION MANAGER AND/OR GENERAL CONTRACTOR.

PROVIDE ADDITIONAL FIRE DAMPERS, SMOKE DETECTORS, AND SMOKE DAMPERS (INCLUSIVE OF WIRING) AS REQUIRED FOR A FULLY FUNCTIONAL AND CODE COMPLIANT SYSTEM.

Q. ALL DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE. NO OTHER TRADES, I.E. ELECTRICAL, CEILING, PLUMBING, ETC., SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM MECHANICAL DUCTWORK OR MECHANICAL PIPING.

R. ALL BUILDING PENETRATIONS MUST BE COORDINATED WITH THE ARCHITECT AND SHALL BE FLASHED AND SEALED WEATHER-TIGHT. ALL MATERIALS AND COLORS MUST BE PRE-APPROVED BY THE ARCHITECT. NEW OPENINGS AND/OR PENETRATIONS FOR MECHANICAL ITEMS SHALL BE CUT, SLEEVED, ETC. BY THE MECHANICAL CONTRACTOR. ALL OPENINGS SHALL BE CORE DRILLED OR SAW-CUT. NO "HAMMER DRILLING" WILL BE ALLOWED.

S. ROUTE DUCTWORK AS HIGH AS POSSIBLE TO FACILITATE ACCESS TO ABOVE CEILING SPACE. COORDINATE ROUTING WITH OTHER SERVICES AND TRADES. PROVIDE ADDITIONAL DUCTWORK, OFFSETS, ETC. TO ACCOMMODATE FIELD CONDITIONS AS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM AT NO ADDITIONAL COST. ADDITIONAL OFFSETS REQUIRE APPROVAL FROM THE ENGINEER. ROUTE DUCTWORK BETWEEN JOISTS WHERE POSSIBLE.

T. ALL AIR DEVICES LOCATED ABOVE GYPBOARD OR HARD CEILINGS SHALL HAVE ACCESSIBLE BALANCING DAMPERS.

U. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS.

V. PROVIDE AND INSTALL DUCT ACCESS DOORS FOR INSPECTION OF ALL INSTALLED FIRE DAMPERS AS DIRECTED BY SMACNA HVAC CONSTRUCTION STANDARDS.

W. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0". ALL FLEXIBLE DUCT SHALL CONFORM TO THE REQUIREMENTS OF UL 181 FLEXIBLE AIR DUCTS. SUPPORT TO ELIMINATE SAGGING AND KINKING. INSULATED FLEXIBLE DUCTS SHALL MEET MINIMUM R-VALUES REQUIRED BY THE IECC.

X. ALL HVAC EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS. UTILIZE FACTORY FILTERS DURING CONSTRUCTION.

Y. THE OWNER SHALL CONTRACT DIRECTLY WITH A THIRD PARTY TEST AND BALANCE (TAB) COMPANY TO BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNER'S REPRESENTATIVES WITH COMPLETE HYDRONIC BALANCE REPORT. THE MECHANICAL CONTRACTOR SHALL PROVIDE AS MANY ADDITIONAL SITE VISITS AS REQUIRED BY THE ENGINEER FOR A COMPLETE AND FUNCTIONING AND APPROVED SYSTEM IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.

Z. ALL RECTANGULAR 90 DEG. AND 45 DEG. ELBOWS SHALL HAVE TURNING VANES.

AA. PROVIDE A MANUAL VOLUME DAMPER AT ALL BRANCH TAKE-OFFS ON SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK AT NO ADDITIONAL COST. PROVIDE A MAIN RETURN DAMPER UPSTREAM OF OUTSIDE AIR CONNECTIONS IN RETURN AIR PLENUM DESIGNS. COORDINATE ADDITIONAL MANUAL VOLUME DAMPER LOCATIONS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM WITH THE ENGINEER PRIOR TO ORDER, FABRICATION, OR INSTALLATION.

AB. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR "CLEAR" DUCT DIMENSIONS.

AC. MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN OUTDOOR AIR INTAKES AND EXHAUST, PLUMBING VENTS, ETC. AND/OR AS REQUIRED BY IMC, WHICHEVER IS MORE STRINGENT.

AD. MAINTAIN 10'-0" MINIMUM CLEARANCE FROM EDGE OF ROOFTOP EQUIPMENT TO ROOF EDGE UNLESS RAILING OR PARAPET OF SUFFICIENT HEIGHT IS TO BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE CODES INCLUDING BUT NOT LIMITED TO: NEC, IMC, LOCAL CODES, OSHA GUIDELINES (WHERE APPLICABLE). REFER TO ARCHITECTURAL.

AE. PROVIDE CONDUIT, BOXES AND CONTROL WIRING IN COMPLIANCE WITH THE NEC AND DIVISION 26.

AF. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND DRAWINGS FOR CONNECTIONS AND LOCATION OF ALL EQUIPMENT.

AG. CONTRACTOR SHALL PROVIDE ADDITIONAL OFFSETS OR BENDS IN PIPING AS REQUIRED TO ALLOW FOR EXPANSION AND CONTRACTION DUE TO TEMPERATURE CHANGES AND DIFFERENCES IN THE AMBIENT TEMPERATURE WHEN PIPING AND EQUIPMENT IS INSTALLED.

AH. PROVIDE MANUAL AIR VENTS AT HIGH POINTS AND DRAIN VALVES AT LOW POINTS OF ALL HYDRONIC PIPING. AUTOMATIC AIR VENTS SHALL BE INSTALLED WHERE INDICATED IN THE CONTRACT DOCUMENTS AND/OR AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.

AI. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL PLANS AND GC/CM ALL AREAS WHERE MECHANICAL / ELECTRICAL EQUIPMENT AND/OR MEP'S ARE INDICATED TO BE DEMOLISHED AND THE REQUIRED REPAIR AND RESTORATION OF ALL WALLS, ROOFS, CEILINGS, FLOORS, ETC. SHALL BE INCLUDED IN THEIR BID.

AJ. ALL ROOF PENETRATIONS SHALL BE IN COMPLIANCE WITH THE ROOFING MANUFACTURER'S GUIDELINES AND THE AMERICAN ROOFING COUNCIL. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE AS NECESSARY TO MAINTAIN ALL WARRANTIES.

AK. STRUCTURAL MEMBERS SHALL NOT BE CUT OR COMPROMISED IN ANY WAY.

AL. DO NOT BLOCK ACCESS TO HVAC OR ELECTRICAL EQUIPMENT. DO NOT INSTALL PIPING, DUCTWORK, OR EQUIPMENT OVER ELECTRICAL PANELS/SWITCHGEAR OR THE 30" x 42" (W x D) CLEARANCE IN FRONT OF THESE ELECTRICAL ITEMS. COORDINATE ADDITIONAL REQUIREMENTS WITH NEC.

GENERAL DEMOLITION NOTES:

A. GENERAL MECHANICAL DEMOLITION NOTES APPLY TO ALL MECHANICAL SHEETS.

B. SEE ARCHITECTURAL DRAWINGS FOR BUILDING FLOOR PLAN LAYOUT.

C. THE EXISTING CONDITIONS REPRESENTED ON PLANS DEPICT APPROXIMATE LOCATIONS AND SIZES OF EQUIPMENT AND COMPONENTS. FIELD-VERIFY ACTUAL CONDITIONS AND DETERMINE ACTUAL LOCATIONS AND SIZES OF EQUIPMENT PRIOR TO COMMENCING WORK.

D. SUBSTANTIAL DEVIATIONS BETWEEN THE CONTRACT DOCUMENTS DEMOLITION SCOPE AND ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER IN THE FORM OF A REQUEST FOR INFORMATION WITH THE DESCRIPTIONS AND SKETCHES.

E. SCHEDULING OF ALL DEMOLITION OPERATIONS SHALL BE COORDINATED WITH OWNER NO LATER THAN THE DATE OF THE PROJECT PRECONSTRUCTION MEETING.

F. PROVIDE DEMOLITION WORK SHOWN ON THE DRAWINGS AND ALL INCIDENTAL DEMOLITION WORK REQUIRED TO COMPLETE NEW CONSTRUCTION WORK.

G. PROTECT EXISTING EQUIPMENT, PIPING, DUCTWORK, AIR OPENINGS, ETC. FROM DIRT AND DAMAGE DURING DEMOLITION AND CONSTRUCTION.

H. COMPLETELY REMOVE ALL COMPONENTS INDICATED ON PLANS FOR DEMOLITION INCLUDING REMOVAL OF ALL SUPPORTS, HANGERS, PIPING, WIRING, ECT. THAT ARE ASSOCIATED WITH THE COMPONENT BEING REMOVED, UNLESS OTHERWISE STATED.

I. CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGE ASSOCIATED WITH DEMOLITION. ALL FINISHED SURFACES (FLOORS, WALLS, CEILINGS, ROOF, ETC.) SHALL MATCH EXISTING CONDITIONS.

J. PROVIDE 1-HOUR FIRE RATED DUST PROOF BARRIERS (UL DESIGN U305) TO SEPARATE DEMOLITION AREA FROM THE REST OF THE FACILITY.

K. WHERE DUST CREATED DURING DEMOLITION MAY ENTER AN HVAC SYSTEM RETURN AIR DUCT, PROVIDE TEMPORARY FILTERS AS REQUIRED TO PREVENT DUST INTRUSION.

L. MAINTAIN OPERATION OF ALL EXISTING SERVICES AND UTILITIES SERVING AREAS THAT ARE OCCUPIED OR IN OPERATION DURING DEMOLITION WORK. COORDINATE AND SCHEDULE ALL DISRUPTIONS TO SERVICES OR UTILITIES WITH OWNER TWO WEEKS IN ADVANCE OF INTERRUPTION.

M. REMOVE, RELOCATE, AND REINSTALL ANY COMPONENTS WHEN REQUIRED TO ACCOMMODATE DEMOLITION OR NEW WORK SCOPE. COMMUNICATE TO ARCHITECT/ENGINEER THE EXTENT OF ITEMS TO BE REMOVED PRIOR TO BEGINNING THE WORK.

N. STORE AND PROTECT ALL EXISTING ITEMS WHICH ARE TO BE RELOCATED OR REUSED.

O. WHERE DEMOLITION/RE-WORK OF EXISTING MEP ITEMS CONTAINING HAZARDOUS MATERIALS OCCUR, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER FOR ABATEMENT AND REMEDIATION AS REQUIRED.

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MECHANICAL LEGEND AND GENERAL NOTES

REVISIONS		
NO	DESCRIPTION	DATE

DATE:	8-7-2024
JOB STATUS:	CD
DRAWN BY:	Author
CHECKED:	Checker
PROJECT NO:	168.003
SHEET:	M001

1 OVERALL FIRST FLOOR - MECHANICAL DEMOLITION

REVISIONS		
NO.	DESCRIPTION	DATE

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SHEET: MD001

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OVERALL FIRST FLOOR - MECHANICAL DEMOLITION

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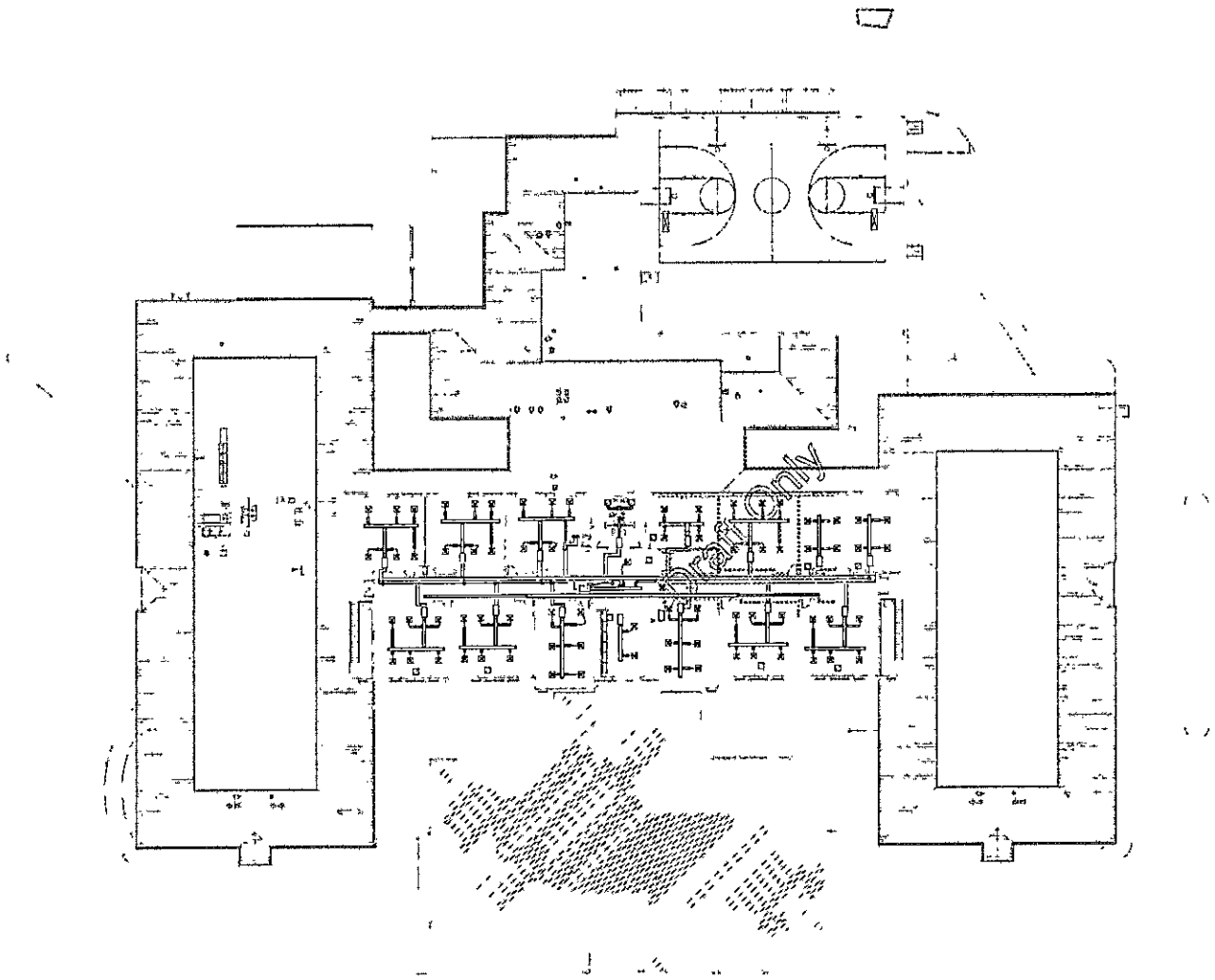

1 OVERALL SECOND FLOOR - MECHANICAL DEMOLITION
SCALE: 1/16" = 1'-0"

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OVERALL SECOND FLOOR - MECHANICAL DEMOLITION

REVISIONS		
NO.	DESCRIPTION	DATE

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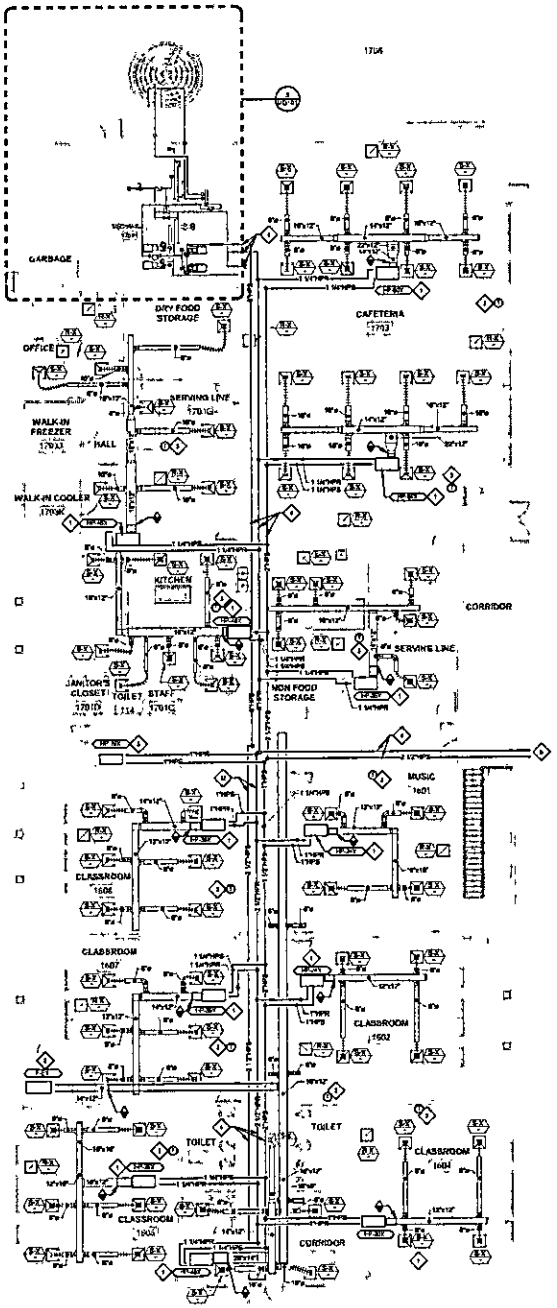
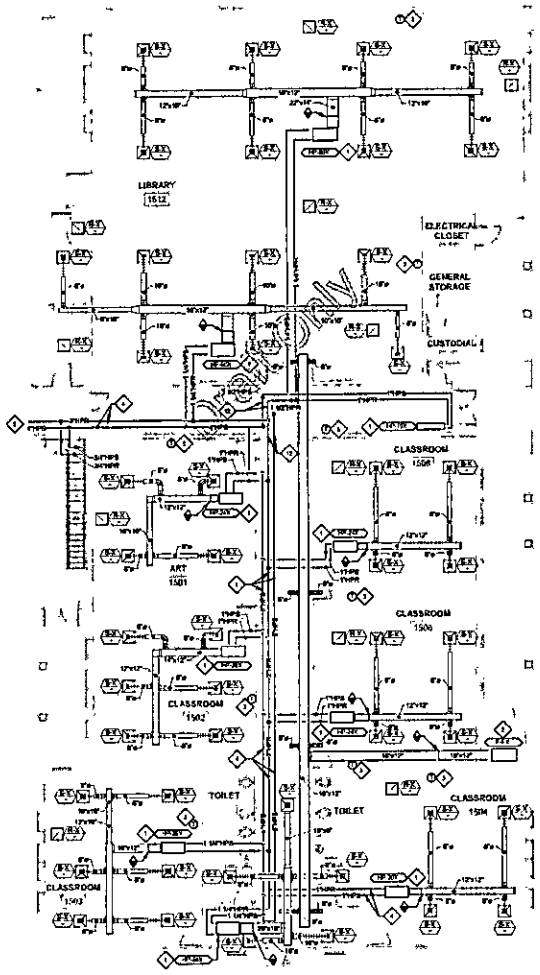
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 1oo.003
SHEET

MD002



1 FIRST FLOOR - MECHANICAL DEMOLITION - AREA A



2 FIRST FLOOR - MECHANICAL DEMOLITION - AREA B

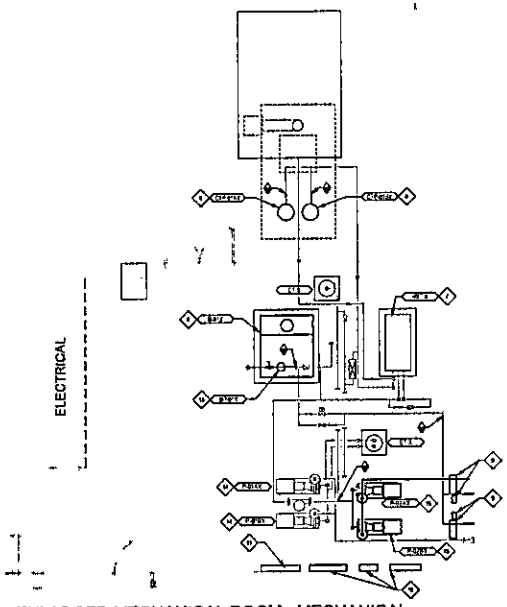
GENERAL NOTES

A. REFER TO DRAWING M001 FOR GENERAL MECHANICAL NOTES.

B. CONTRACTOR SHALL DO WALK THROUGH OF BUILDING WITH OWNER AND DOCUMENT IN WRITING EXISTING CONDITIONS. OWNER AND CONTRACTOR TO AGREE ON EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR ENSURING POST CONSTRUCTION CONDITION IS EQUIVALENT TO PRE-CONSTRUCTION CONDITIONS AGREED UPON WITH OWNER.

SHEET KEYNOTES

1. DEMOLISH AND REMOVE EXISTING WATER SOURCE HEAT PUMP. DISCONNECT FROM EXISTING DUCTWORK AND PIPING AS REQUIRED TO MAKE NEW CONNECTIONS.
2. DEMOLISH AND REMOVE EXISTING FURNACE IN APPROXIMATE LOCATION. DISCONNECT FROM EXISTING DUCTWORK AS REQUIRED FOR NEW CONNECTIONS.
3. DEMOLISH AND REMOVE EXISTING WALL MOUNTED THERMOSTATS AND CONTROLS BACK TO UNIT SERVED.
4. DEMOLISH ALL HYDRONIC PIPING, ACCESSORIES, HANGERS, ETC. EXISTING PIPING SHALL REMAIN ALIVE DURING CONSTRUCTION AS REQUIRED BY PHASING.
5. REFER TO SHEET M0102 FOR CONTINUATION.
6. DEMOLISH EXISTING GAS BOILER. DEMOLISH EXISTING HOUSEKEEPING PAD AND BOILER FLUE THROUGH ROOF. DEMOLISH ASSOCIATED PIPING AS REQUIRED FOR NEW CONNECTION.
7. EXISTING HEAT EXCHANGER TO REMAIN IN PLACE.
8. DEMOLISH EXISTING COOLING TOWER PUMPS. DEMOLISH ASSOCIATED PIPING AS REQUIRED FOR NEW CONNECTION. DEMOLISH ASSOCIATED CONTROLS.
9. DEMOLISH EXISTING PUMP CONTROLS ON WALL.
10. DEMOLISH OBSOLETE CONTROLLERS ON WALL. DEMOLISH ALL ASSOCIATED WIRING.
11. EXISTING CONTROL PANEL TO REMAIN IN PLACE.
12. ADD HYDRONIC VALVE IN APPROXIMATE LOCATION FOR ISOLATION OF PIPING DURING CONSTRUCTION. COORDINATE EXACT LOCATION WITH PHASING PLAN.
13. DEMOLISH EXISTING BOILER PUMP. DEMOLISH ASSOCIATED PIPING AS REQUIRED FOR NEW CONNECTION. DEMOLISH ASSOCIATED CONTROLS.
14. EXISTING PUMP TO REMAIN IN PLACE.
15. DEMOLISH EXISTING PUMP. DEMOLISH ASSOCIATED PIPING AS REQUIRED FOR NEW CONNECTION. DEMOLISH ASSOCIATED CONTROLS.



3 ENLARGED MECHANICAL ROOM - MECHANICAL DEMOLITION

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FIRST FLOOR - MECH DEMO - AREA A & B

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 6-7-2024
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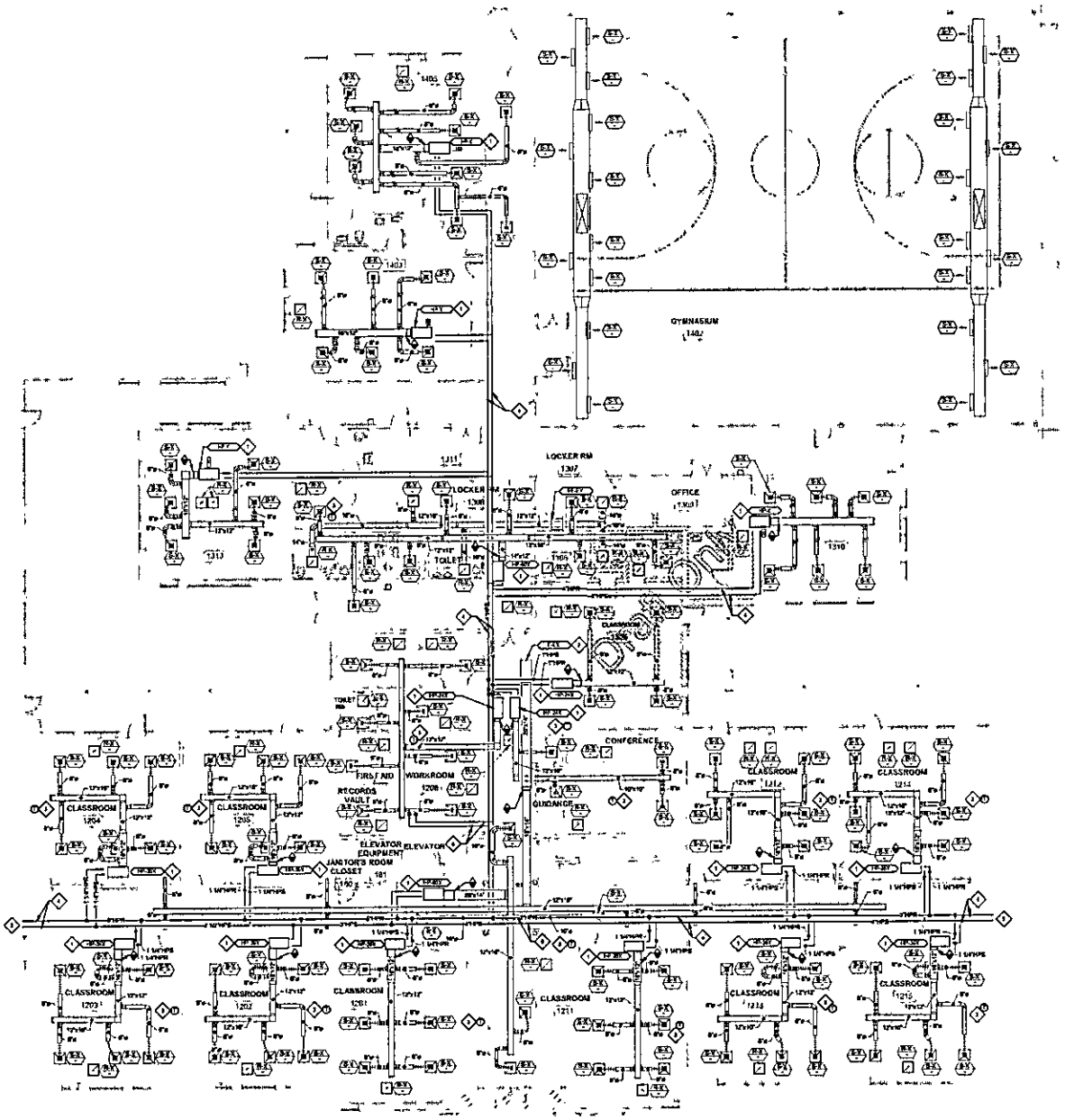
PROJECT NO: 166.003
SHEET:

MD101



1 FIRST FLOOR - MECHANICAL DEMOLITION - AREA C

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

GENERAL NOTES

A. REFER TO DRAWING M001 FOR GENERAL MECHANICAL NOTES.

B. CONTRACTOR SHALL DO WALK THROUGH OF BUILDING WITH OWNER AND DOCUMENT IN WRITING EXISTING CONDITIONS. OWNER AND CONTRACTOR TO AGREE ON EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR ENSURING POST CONSTRUCTION CONDITION IS EQUIVALENT TO PRE-CONSTRUCTION CONDITIONS AGREED UPON WITH OWNER.

◇ SHEET KEYNOTES

1. DEMOLISH AND REMOVE EXISTING WATER SOURCE HEAT PUMP. DISCONNECT FROM EXISTING DUCTWORK AND PIPING AS REQUIRED TO MAKE NEW CONNECTIONS.
2. EXISTING FURNACE TO REMAIN IN PLACE. DISCONNECT FROM EXISTING DUCTWORK AS INDICATED FOR NEW CONNECTIONS.
3. DEMOLISH AND REMOVE EXISTING WALL MOUNTED THERMOSTATS AND CONTROLS BACK TO UNIT SERVED.
4. DEMOLISH ALL HYDRONIC PIPING, ACCESSORIES, HANGERS, ETC. EXISTING PIPING SHALL REMAIN ACTIVE DURING CONSTRUCTION AS REQUIRED BY PHASING.
5. REFER TO SHEET MD102 FOR CONTINUATION.
6. ADD HYDRONIC VALVE IN APPROXIMATE LOCATION FOR ISOLATION OF PIPING DURING CONSTRUCTION. COORDINATE EXACT LOCATION WITH PHASING PLAN.

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FIRST FLOOR - MECH DEMO - AREA C

REVISION		
NO.	DESCRIPTION	DATE

DATE: 6-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 164.003
SHEET

MD102

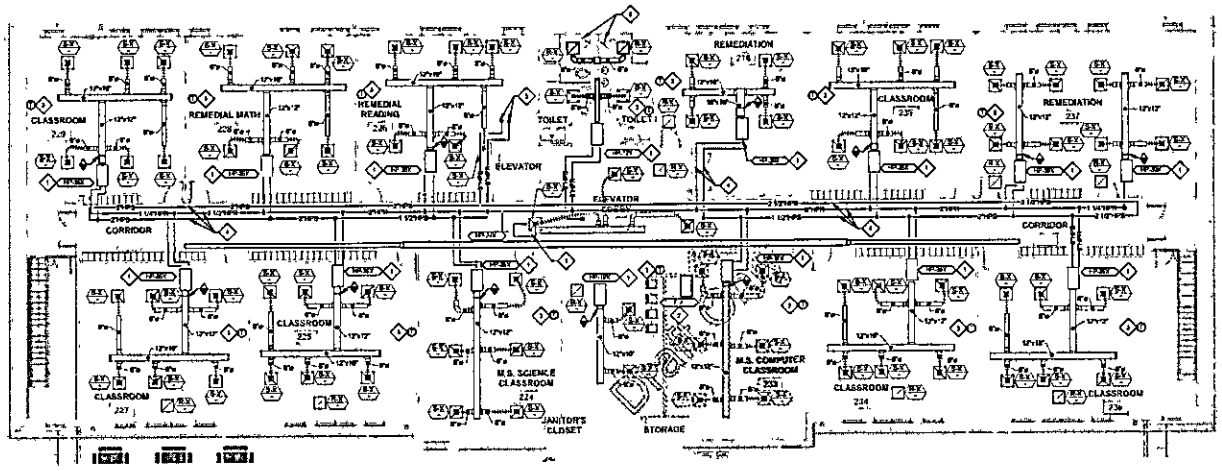
GENERAL NOTES

A. REFER TO DRAWING M001 FOR GENERAL MECHANICAL NOTES.

B. CONTRACTOR SHALL DO WALK THROUGH OF BUILDING WITH OWNER AND DOCUMENT IN WRITING EXISTING CONDITIONS. OWNER AND CONTRACTOR TO AGREE ON EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR ENSURING POST-CONSTRUCTION CONDITION IS EQUIVALENT TO PRE-CONSTRUCTION CONDITIONS AGREED UPON WITH OWNER.

◇ SHEET KEYNOTES

1. DEMOLISH AND REMOVE EXISTING WATER SOURCE HEAT PUMP. DISCONNECT FROM EXISTING DUCTWORK AND PIPING AS REQUIRED TO MAKE NEW CONNECTIONS.
2. DEMOLISH AND REMOVE EXISTING FURNACE IN APPROXIMATE LOCATION. DISCONNECT FROM EXISTING DUCTWORK AS REQUIRED FOR NEW CONNECTIONS.
3. DEMOLISH AND REMOVE EXISTING WALL MOUNTED THERMOSTATE AND CONTROLS BACK TO UNIT SERVED.
4. DEMOLISH ALL HYDRONIC PIPING, ACCESSORIES, HANGERS, ETC.
5. HYDRONIC PIPING DOWN TO FLOOR BELOW. REFER TO SHEET M102 FOR CONTINUATION.
6.



1 SECOND FLOOR - MECHANICAL DEMOLITION
SCALE: 1/8"=1'-0"

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SECOND FLOOR - MECH DEMO

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 6-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 166.003
SHEET:
MD103

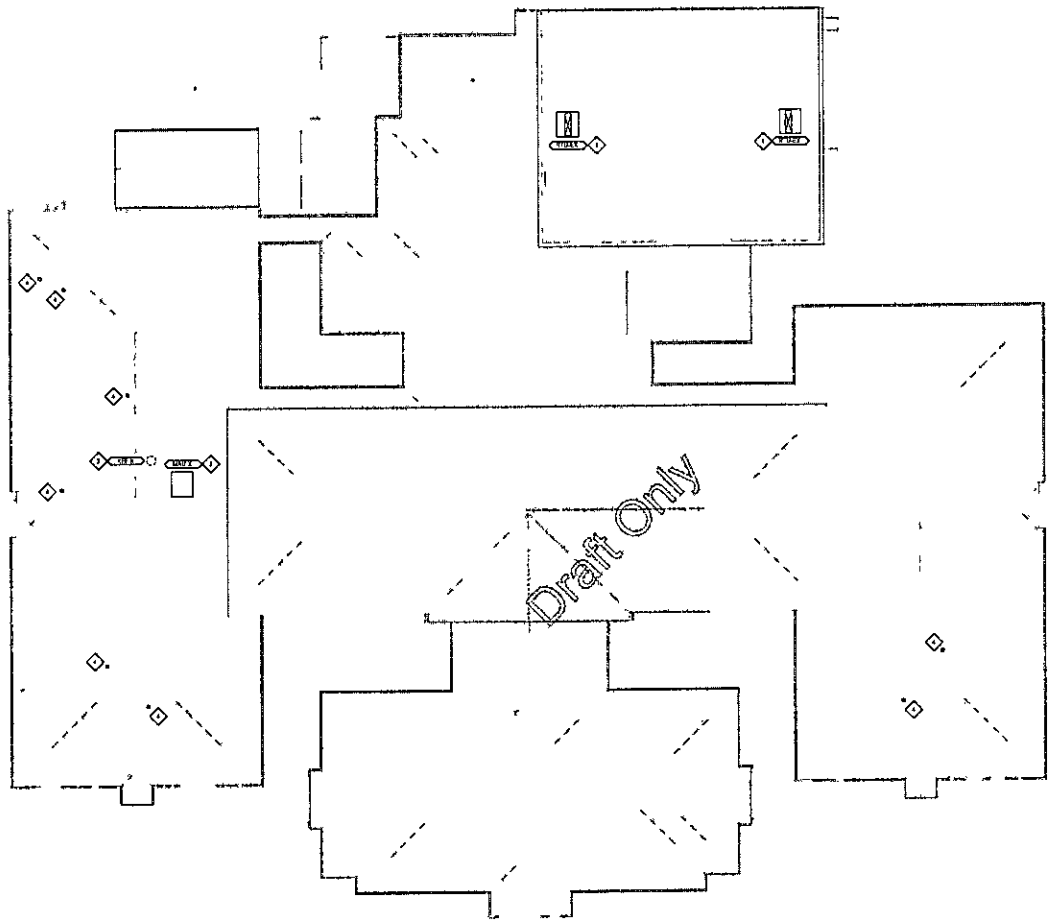
GENERAL NOTES

A. REFER TO DRAWING M001 FOR GENERAL MECHANICAL NOTES.

B. CONTRACTOR SHALL DO WALK THROUGH OF BUILDING WITH OWNER AND DOCUMENT IN WRITING EXISTING CONDITIONS. OWNER AND CONTRACTOR TO AGREE ON EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR EMBURING POST-CONSTRUCTION CONDITION IS EQUIVALENT TO PRE-CONSTRUCTION CONDITIONS AGREED UPON WITH OWNER.

◇ SHEET KEYNOTES

1. DEMOLISH AND REMOVE EXISTING ROOFTOP UNIT. DISCONNECT FROM DUCTWORK AS REQUIRED FOR NEW CONNECTIONS. DEMOLISH ALL ASSOCIATED CONTROLS.
2. DEMOLISH EXISTING KITCHEN EXHAUST FAN ON ROOF. DEMOLISH ASSOCIATED ROOF CURB. DISCONNECT FROM EXISTING DUCTWORK AS REQUIRED. COORDINATE EXACT LOCATION PRIOR TO DEMOLITION.
3. DEMOLISH EXISTING MAKE UP AIR UNIT. DEMOLISH EXISTING ROOF CURB. DISCONNECT FROM EXISTING DUCTWORK AS REQUIRED FOR NEW CONNECTION. REFER TO NEW WORK.
4. EXISTING VENT TO BE RELOCATED WITH ROOF WORK.



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

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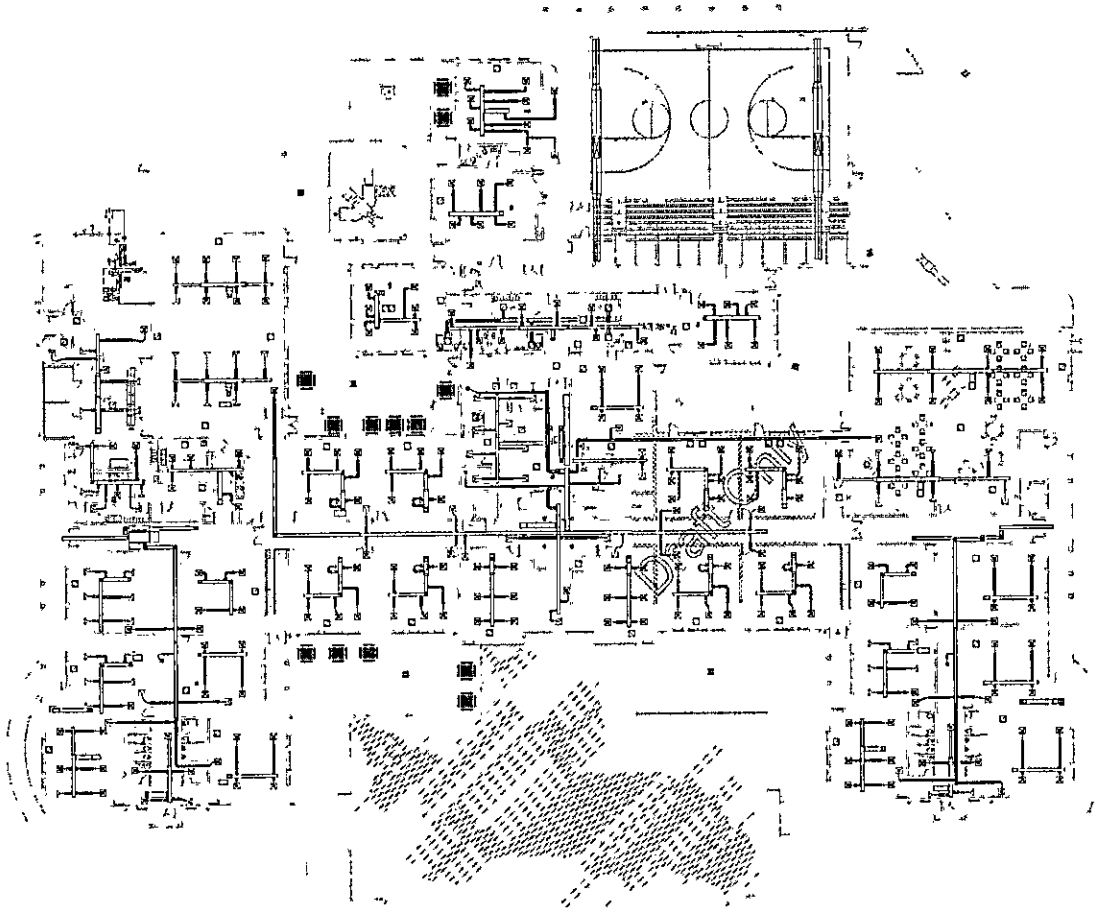
ROOF - MECH DEMO

NO.	DESCRIPTION	DATE

DATE: 6-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 166.003
SHEET:
MD104

GENERAL NOTES

A. REFER TO DRAWING M001 FOR GENERAL MECHANICAL NOTES.



1 OVERALL FIRST FLOOR - HVAC

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

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OVERALL FIRST FLOOR - MECHANICAL

REVISIONS		
NO.	DESCRIPTION	DATE

DATE:	6-7-2024
JOB STATUS:	CD
DRAWN BY:	Author
CHECKED:	Checker
PROJECT NO:	166.003

SHEET:

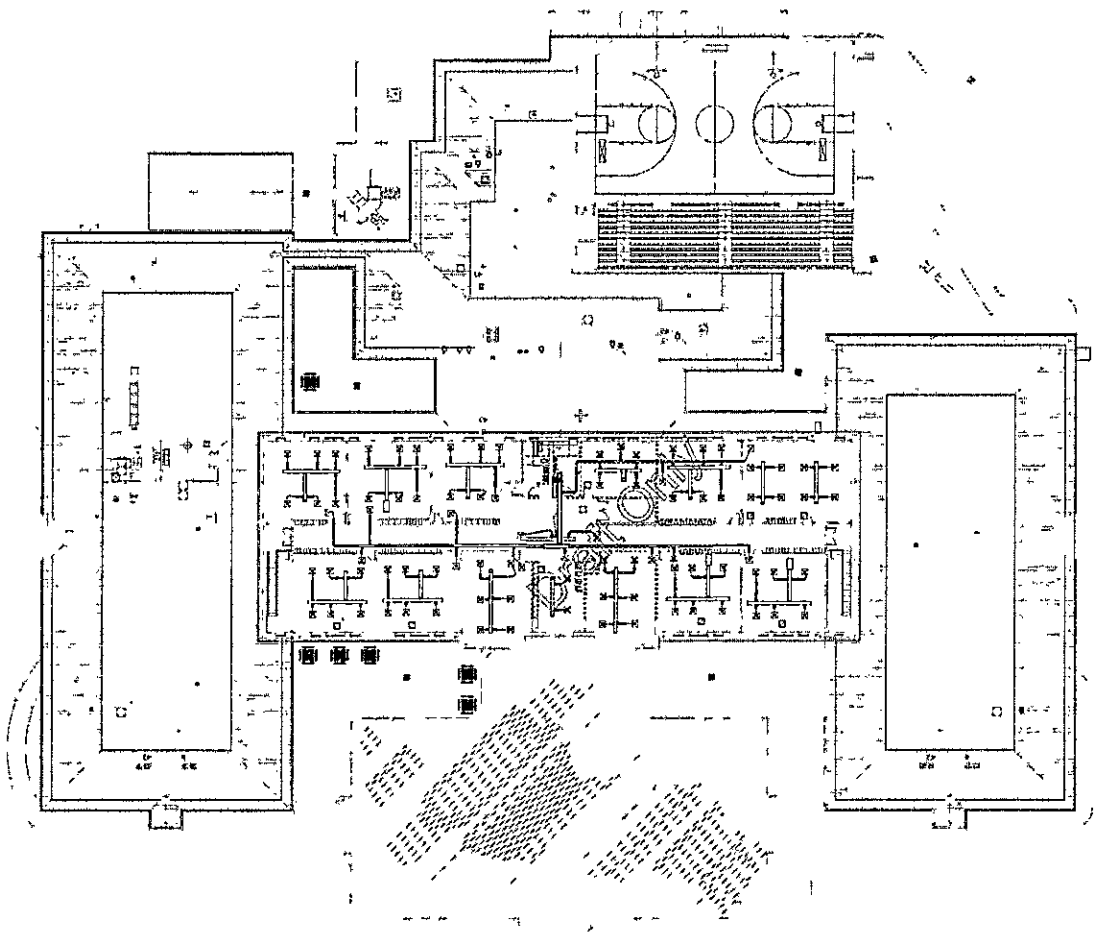
M002

GENERAL NOTES

A. REFER TO DRAWING M001 FOR GENERAL MECHANICAL NOTES.

SHEET KEYNOTES

1. SHEET NOTES



1 OVERALL SECOND FLOOR - HVAC

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

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OVERALL SECOND FLOOR - MECHANICAL

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 6-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 168.003
SHEET:

M003

GENERAL NOTES

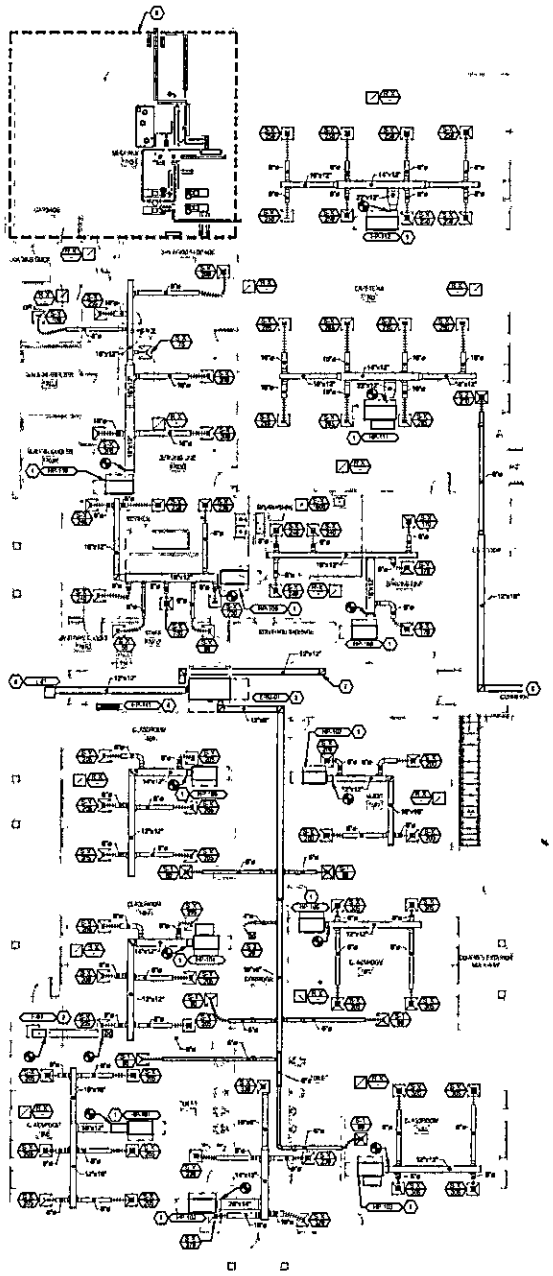
A. REFER TO DRAWING M001 FOR GENERAL MECHANICAL NOTES.

B. CONTRACTOR SHALL RE-INSTALL EXISTING GAS HEATING UNITS IN ALL NEW WATER SOURCE HEAT PUMPS WHERE POSSIBLE.

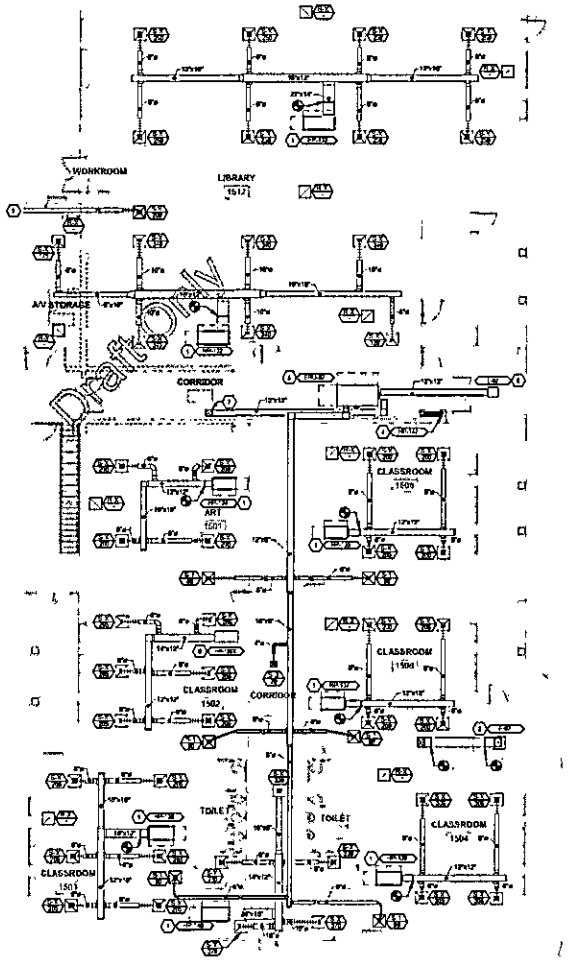
C. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY BUILT FITTINGS AND TRANSITIONS TO CONNECT NEW MECHANICAL EQUIPMENT TO EXISTING DUCTWORK AS INDICATED ON DRAWINGS.

SHEET KEYNOTES

1. PROVIDE AND INSTALL HORIZONTAL WATER SOURCE HEAT PUMP IN EXISTING LOCATION, RECONNECT TO EXISTING DUCT AS REQUIRED.
2. PROVIDE AND INSTALL GAS FURNACE, RECONNECT TO DUCT AS INDICATED AND ROUTE SUPPLY DUCT TO ATTIC SPACE, RECONNECT TO EXISTING GAS PIPING AND FLUE.
3. PROVIDE AND INSTALL HORIZONTAL ENERGY RECOVERY UNIT ABOVE CEILING, CONNECT TO EXISTING DUCTWORK IN APPROXIMATE LOCATION, FIELD VERIFY.
4. PROVIDE AND INSTALL CEIL INGLE STYLE WATER SOURCE HEAT PUMP IN EXISTING LOCATION.
5. REFER TO SHEET M400 FOR CONTINUATION.
6. LOUVER SHALL BE MOUNTED IN SOFFIT, ROUTE DUCTWORK BACK TO ERU.
7. 12x12 DUCTWORK UP TO GRAVITY VENT ON ROOF.
8. REFER TO SHEET M401 FOR WORK IN THIS AREA.
9. EXISTING HEAT PUMP TO REMAIN IN PLACE.



1 FIRST FLOOR - AREA A - HVAC
SCALE: 1/8" = 1'-0"



2 FIRST FLOOR - AREA B - HVAC
SCALE: 1/8" = 1'-0"

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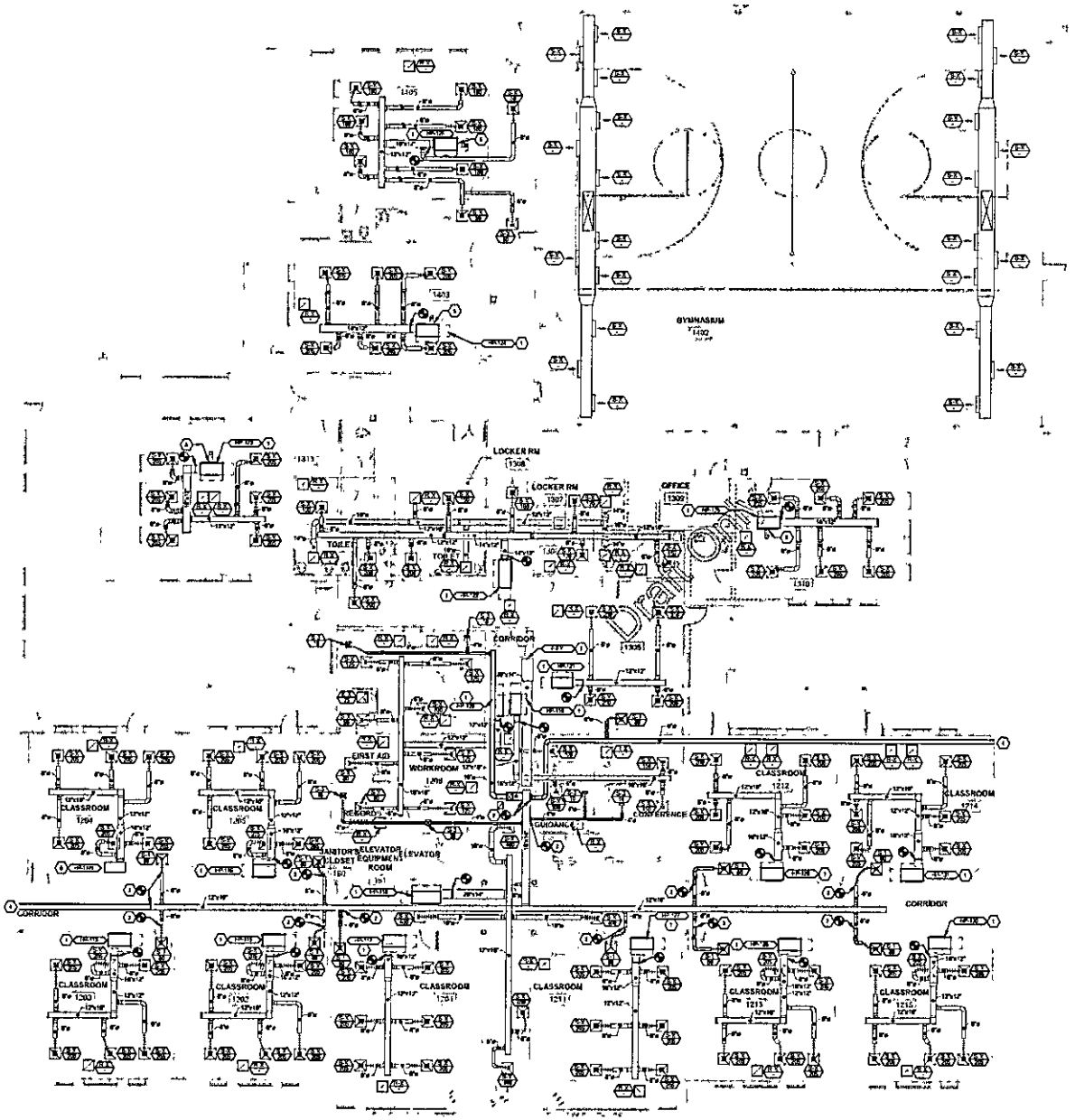
PARTIAL FIRST FLOOR PLAN - HVAC

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 6-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 164.003
SHEET

M101



1 FIRST FLOOR - AREA C - HVAC

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

GENERAL NOTES

A. REFER TO DRAWING M001 FOR GENERAL MECHANICAL NOTES.

B. CONTRACTOR SHALL RE-INSTALL EXISTING DPE IONIZATION UNITS IN ALL NEW WATER SOURCE HEAT PUMPS WHERE POSSIBLE.

C. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DUCT FITTINGS AND TRANSITIONS TO CONNECT NEW MECHANICAL EQUIPMENT TO EXISTING DUCTWORK AS INDICATED ON DRAWINGS.

SHEET KEYNOTES

1. PROVIDE AND INSTALL HORIZONTAL WATER SOURCE HEAT PUMP IN EXISTING LOCATION. RECONNECT TO EXISTING DUCT AS SCHEMED.
2. CONNECT NEW OUTSIDE AIR DUCT TO EXISTING IN APPROXIMATE LOCATION. FIELD VERIFY. PROVIDE MANUAL DAMPER AS REQUIRED.
3. DUCT DOWN FROM EXHAUST ON ROOF. SEE SHEET M101 FOR CONTINUATION.
4. REFER TO SHEET M101 FOR CONTINUATION.
5. RECONNECT OUTSIDE AIR DUCT TO RETURN DUCT AS REQUIRED.
6. EXISTING HEAT PUMP TO REMAIN IN PLACE.
7. EXISTING FURNACE TO REMAIN IN PLACE. COORDINATE DUCT ROUTING TO NEW SPACE.

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FIRST FLOOR - AREA C - MECHANICAL

REVISIONS		
NO.	DESCRIPTION	DATE

DATE:	6-7-2021
JOB STATUS:	CD
DRAWN BY:	Author
CHECKED:	Checker
PROJECT NO:	158 003

SHEET:

M102

GENERAL NOTES

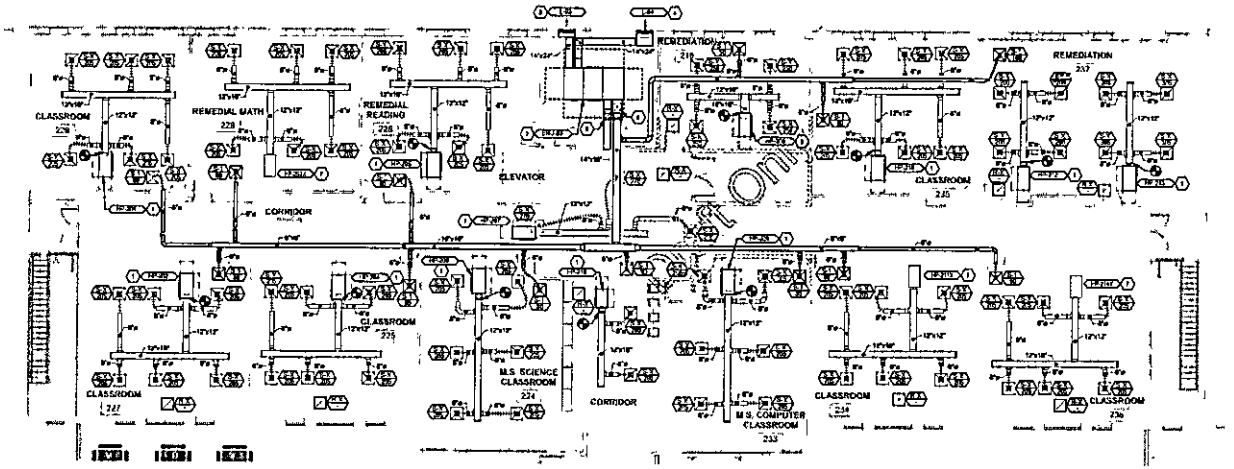
A. REFER TO DRAWING M001 FOR GENERAL MECHANICAL NOTES.

B. CONTRACTOR SHALL RE-INSTALL EXISTING WPU IONIZATION UNITS IN ALL NEW WATER SOURCE HEAT PUMPS WHERE POSSIBLE.

C. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DUCT FITTINGS AND TRANSITIONS TO CONNECT NEW MECHANICAL EQUIPMENT TO EXISTING DUCTWORK AS INDICATED ON DRAWINGS.

SHEET KEYNOTES

1. PROVIDE AND INSTALL HORIZONTAL WATER SOURCE HEAT PUMP IN EXISTING LOCATION, RECONNECT TO EXISTING DUCT AS REQUIRED.
2. PROVIDE AND INSTALL ENERGY RECOVERY UNIT ON NEW PLATFORM. PROVIDE ALL REQUIRED DUCT CONNECTIONS.
3. EXHAUST LOUVER SHALL BE MOUNTED AT 7' AFF TO BOTTOM OF LOUVER. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
4. OUTSIDE AIR INTAKE LOUVER SHALL BE MIN 7'-0" HIGHER/ 10'-0" AWAY FROM EXHAUST LOUVER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
5. 16x12 SUPPLY DUCT DOWN TO FIRST FLOOR. REFER TO SHEET M102 FOR CONTINUATION.
6. 16x12 RETURN DUCT DOWN TO FIRST FLOOR. REFER TO SHEET M102 FOR CONTINUATION.
7. EXISTING HEAT PUMP TO REMAIN IN PLACE.



1 SECOND FLOOR - HVAC

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

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SECOND FLOOR - AREA C - HVAC

REVISIONS		
NO.	DESCRIPTION	DATE

DATE:	6-7-2024
JOB STATUS	CD
DRAWN BY:	Author
CHECKED	Checker
PROJECT NO:	106.003
SHEET	M103

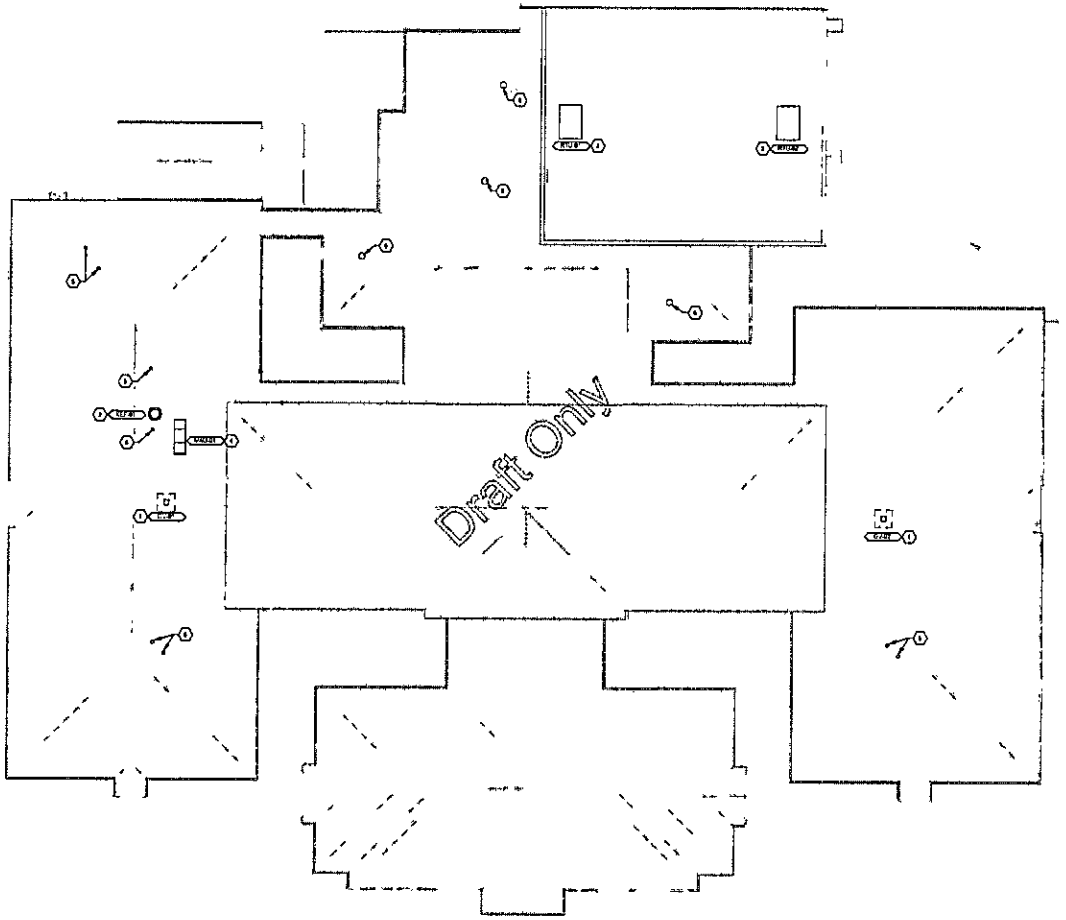
GENERAL NOTES

A. REFER TO DRAWING M001 FOR GENERAL MECHANICAL NOTES.

B. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DUCT FITTINGS AND TRANSITIONS TO CONNECT NEW MECHANICAL EQUIPMENT TO EXISTING DUCTWORK AS INDICATED ON DRAWINGS.

SHEET KEYNOTES

1. PROVIDE AND INSTALL GRAVITY VENT ON NEW ROOF CURB. REFER TO DWG # (#M1) FOR CONTINUATION.
2. PROVIDE AND INSTALL ROOFTOP UNIT ON NEW 14" ROOF CURB. MAKE DUCT CONNECTIONS INTO GYMNASIUM AS REQUIRED. REFER TO SHEET M 102 FOR CONTINUATION.
3. PROVIDE AND INSTALL KITCHEN EXHAUST FAN ON NEW ROOF CURB. RECONNECT TO EXISTING KITCHEN DUCTWORK AS REQUIRED. MAINTAIN 36" CLEARANCE FROM ANY INTAKE. COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
4. PROVIDE AND INSTALL KITCHEN MAKE-UP AIR UNIT ON ROOF. PROVIDE NEW ROOF CURB. RECONNECT TO EXISTING DUCTWORK AS RE-QUIRED.
5. RELOCATE EXISTING VENT IN APPROXIMATE LOCATION. COORDINATE WITH ROOF WORK.
6. EXISTING OUTSIDE AIR CAP TO REMAIN. ADJUST AS REQUIRED FOR NEW ROOF WORK.



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

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ROOF - HVAC

REVISIONS		
NO.	DESCRIPTION	DATE

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DATE:	8-7-2024
JOB STATUS:	CD
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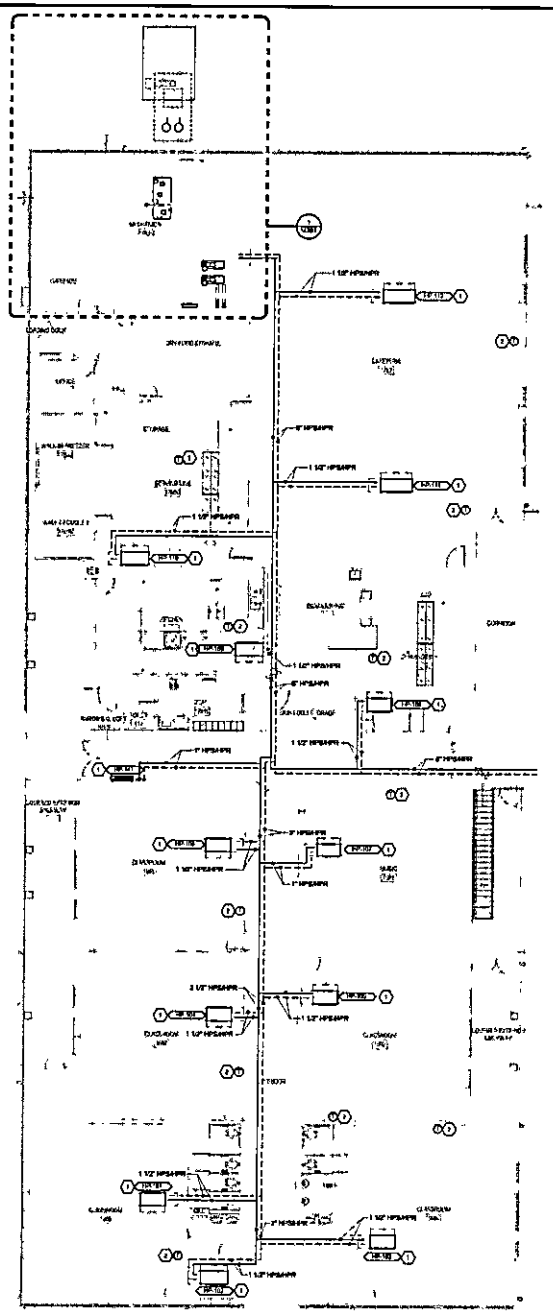
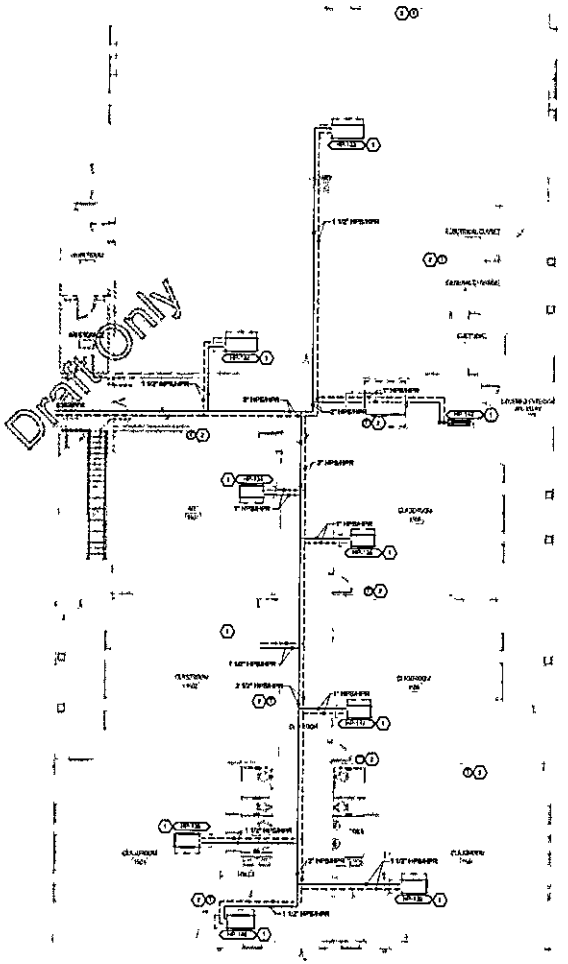
CHECKED:	Checker
PROJECT NO:	168.003

SHEET:
M104



1 FIRST FLOOR - AREA A - MECHANICAL PIPING



2 FIRST FLOOR - AREA B - MECHANICAL PIPING

GENERAL NOTES

A. REFER TO DRAWING M001 FOR GENERAL MECHANICAL NOTES.

B. ALL CONDENSATE PIPING SHALL BE ROUTED WITH 1/8" PER FOOT SLOPE WITH CLEANOUTS AT ALL CHANGES IN DIRECTION.

C. ALL EQUIPMENT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ENSURE PROPER CLEARANCES ARE MAINTAINED PRIOR TO INSTALLATION.

D. PROVIDE FIELD MOUNTED CONDENSATE PUMP FOR ALL EQUIPMENT NOT PROVIDED WITH AN INTEGRAL CONDENSATE PUMP.

E. ALL CONTROL WIRING SHALL BE ROUTED IN CONDUIT WITHIN WALLS AND ABOVE CEILINGS WHEREVER POSSIBLE.

SHEET KEYNOTES

1. PROVIDE ALL REQUIRED HYGIENIC PIPING CONNECTIONS FOR NEW HEAT PUMP. RECONNECT TO EXISTING CONDENSATE PIPING.
2. PROVIDE 4-20MA SENSOR IN EXISTING LOCATION. SENSOR SHALL BE COMBINATION TEMPERATURE AND HUMIDITY. ROUTE CONTROL WIRING USING EXISTING PATHWAYS. WHERE EXISTING PATHWAYS CANNOT BE REUSED, ROUTE WIRING IN WIRE MOLD BACK TO UNIT SUBWOOD, PAINT WIRE MOLD TO MATCH EXISTING SURROUNDINGS.

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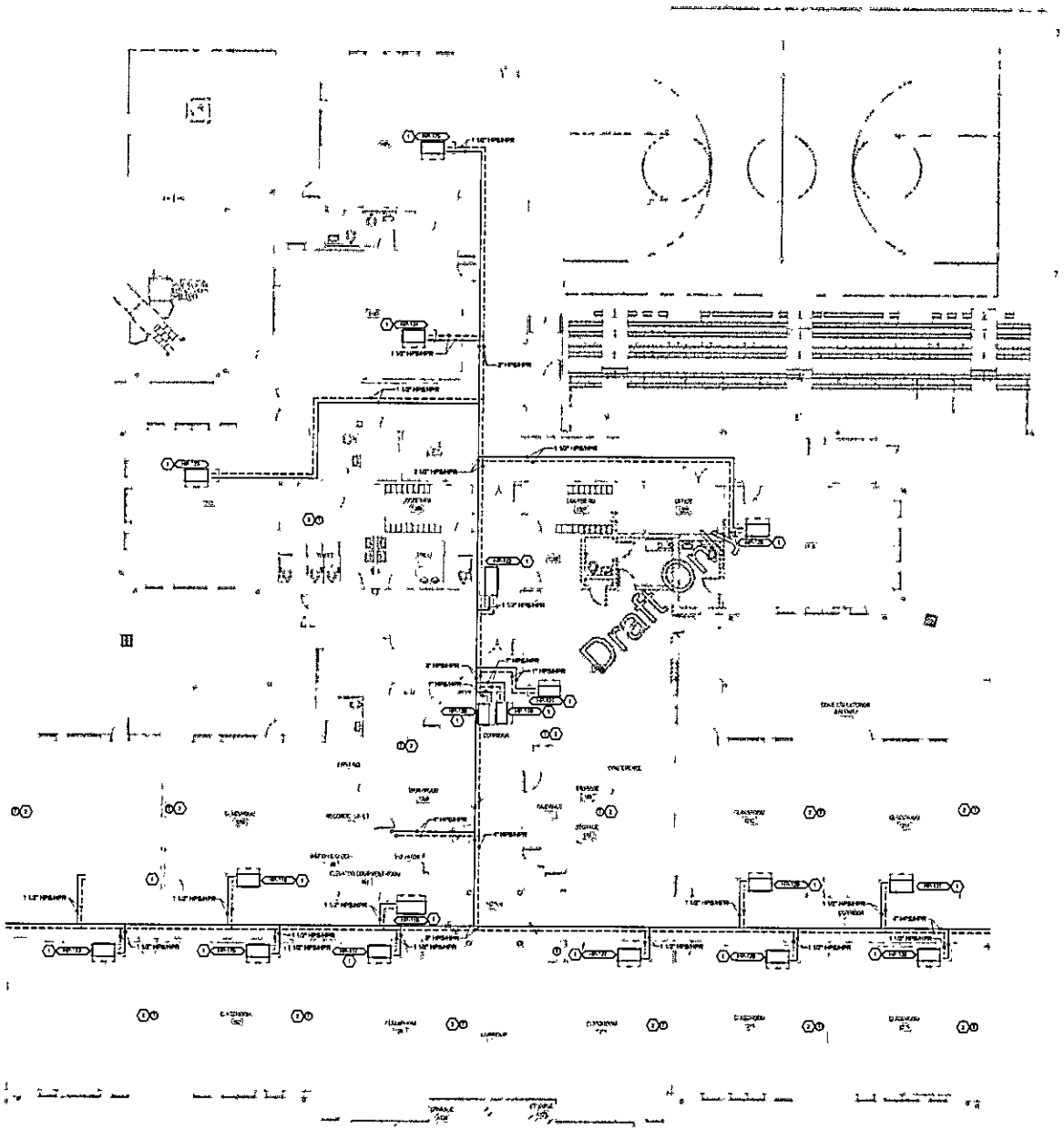
PARTIAL FIRST FLOOR - MECHANICAL PIPING

REVISIONS		
NO.	DESCRIPTION	DATE

DATE:	6-7-2024
JOB STATUS	CD
DRAWN BY:	Author
CHECKED:	Checker
PROJECT NO:	168.003
SHEET:	M201



1 FIRST FLOOR - AREA C - MECHANICAL PIPING
SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. REFER TO DRAWING M001 FOR GENERAL MECHANICAL NOTES.

B. ALL CONDENSATE PIPING SHALL BE ROUTED WITH 1/8" PER FOOT SLOPE WITH CLEANOUTS AT ALL CHANGES IN DIRECTION.

C. ALL EQUIPMENT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. ENSURE PROPER CLEARANCES ARE MAINTAINED PRIOR TO INSTALLATION.

D. PROVIDE FIELD MOUNTED CONDENSATE PUMP FOR ALL EQUIPMENT NOT PROVIDED WITH AN INTERNAL CONDENSATE PUMP.

E. ALL CONTROL WIRING SHALL BE ROUTED IN CONDUIT WITHIN WALLS AND ABOVE CEILING WHEREVER POSSIBLE.

SHEET KEYNOTES

1. PROVIDE ALL REQUIRED HYDRONIC PIPING CONNECTIONS FOR NEW HEAT PUMP. RECONNECT TO EXISTING CONDENSATE PIPING.

2. PROVIDE A ZONE SENSOR IN EXISTING LOCATION. SENSOR SHALL BE COMBINATION TEMPERATURE AND HUMIDITY. ROUTE CONTROL WIRING USING EXISTING PATHWAYS. WHERE EXISTING PATHWAYS CANNOT BE REUSED, ROUTE WIRING IN WIRE MOLD BACK TO UNIT SERVED. PAINT WIRE MOLD TO MATCH EXISTING SURROUNDINGS.

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PARTIAL FIRST FLOOR - MECHANICAL PIPING

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 6-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 166.003
SHEET:

M202

GENERAL NOTES

A. REFER TO DRAWING M001 FOR GENERAL MECHANICAL NOTES.

B. ALL CONDENSATE PIPING SHALL BE ROUTED WITH 1/8" PER FOOT SLOPE WITH CLEANOUTS AT ALL CHANGES IN DIRECTION.

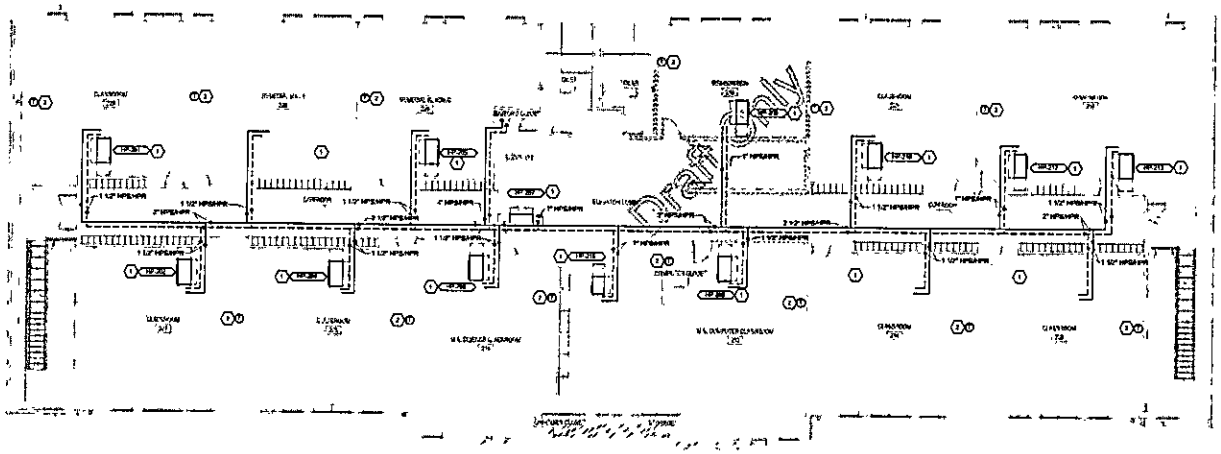
C. ALL EQUIPMENT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. ENSURE PROPER CLEARANCES ARE MAINTAINED PRIOR TO INSTALLATION.

D. PROVIDE FIELD MOUNTED CONDENSATE PUMP FOR ALL EQUIPMENT NOT PROVIDED WITH AN INTEGRAL CONDENSATE PUMP.

E. ALL CONTROL WIRING SHALL BE ROUTED IN CONDUIT WITHIN WALLS AND ABOVE CEILING WHERVER POSSIBLE.

SHEET KEYNOTES

1. PROVIDE ALL REQUIRED HYDRONIC PIPING CONNECTIONS FOR NEW HEAT PUMP. RECONNECT TO EXISTING CONDENSATE PIPING.
2. PROVIDE A ZONE SENSOR IN EXISTING LOCATION. SENSOR SHALL BE COMBINATION TEMPERATURE AND HUMIDITY. ROUTE CONTROL WIRING USING EXISTING PATHWAYS. WHERE EXISTING PATHWAYS CANNOT BE REUSED, ROUTE WIRING IN WIRE MOLD BACK TO UNIT SERVED. PAINT WIRE MOLD TO MATCH EXISTING SURROUNDINGS.



1 PARTIAL SECOND FLOOR - MECHANICAL PIPING
SCALE: 1/8" = 1'-0"

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SECOND FLOOR - MECHANICAL PIPING

REVISIONS		
NO.	DESCRIPTION	DATE

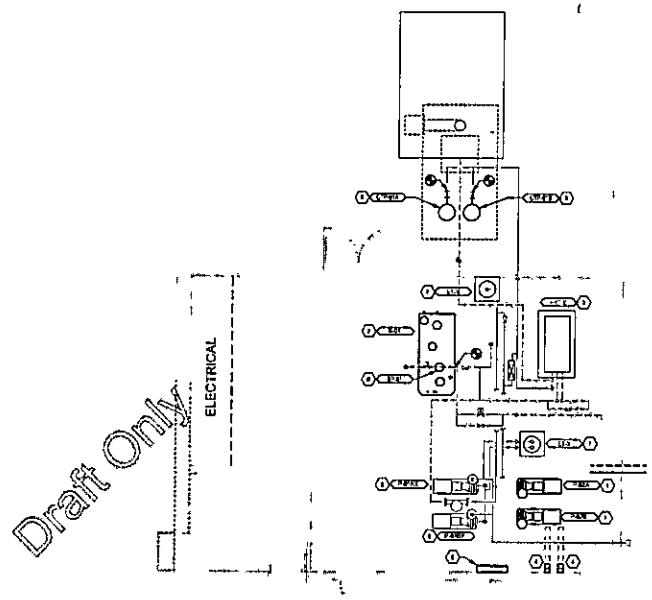
DATE: 5-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 146.003
SHEET:
M203

GENERAL NOTES

A. REFER TO DRAWING M001 FOR GENERAL MECHANICAL NOTES.

SHEET KEYNOTES

1. PROVIDE AND INSTALL NEW BASE-MOUNTED END SUCTION PUMP ON NEW HOUSEKEEPING PAD.
2. PROVIDE AND INSTALL GAS FIRED BOILER ON NEW HOUSEKEEPING PAD. RECONNECT TO EXISTING HYDRONIC PIPING AS REQUIRED. PROVIDE ALL NEW VALVE, SENSORS, ETC. ROUTE NEW BOILER FLUE AS INDICATED.
3. EXISTING HEAT EXCHANGER TO REMAIN IN PLACE. UNIT SHALL BE TAKEN APART AND THOROUGHLY CLEANED.
4. PUMP VARIABLE FREQUENCY DRIVE (VFD) SHALL BE MOUNTED AT 66" A.F.F.
5. LOCATION OF NEW BAS CONTROL PANEL.
6. EXISTING HYDRONIC PUMP TO REMAIN IN PLACE.
7. EXISTING EXPANSION TANK TO REMAIN IN PLACE.
8. PROVIDE AND INSTALL BOILER PUMP. RECONNECT TO EXISTING HYDRONIC PIPING AS REQUIRED.
9. PROVIDE AND INSTALL COOLING TOWER PUMPS. RECONNECT TO EXISTING HYDRONIC PIPING AS REQUIRED.



1 ENLARGED MECHANICAL ROOM - MECHANCIAL
SCALE: 1/4" = 1'-0"

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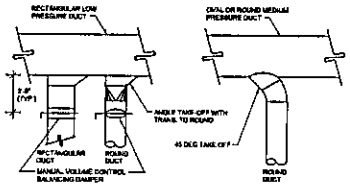
ENLARGED MECHANICAL ROOM - HVAC

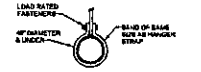
REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 6-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 168.003
SHEET
M301



BRANCH TAKE OFF DUCTWORK DETAIL

NOT TO SCALE

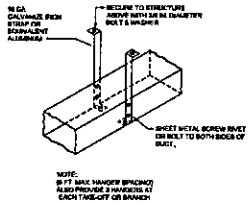


HANGER STRAPS OR RODS			
MAX. DUCT DIA.	HANGER	MAX LOAD lb	MAX SPACING FT.
48"	ONE 1"x 22 GA STRAP	360	10

NOTE:
1. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT SUMPGRAD AND INSULATION, BUT NO EXTERNAL LOAD.

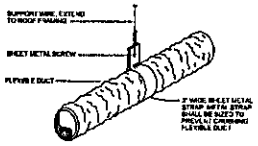
ROUND DUCT HANGER DETAIL

NOT TO SCALE 233113



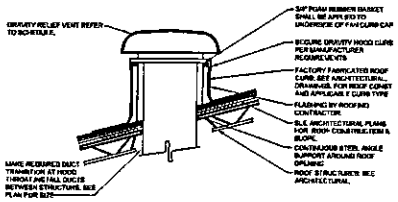
RECTANGULAR DUCT HANGER DETAIL

NOT TO SCALE 233113



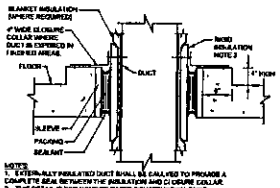
FLEXIBLE DUCT SUPPORT DETAILS

NOT TO SCALE 233113



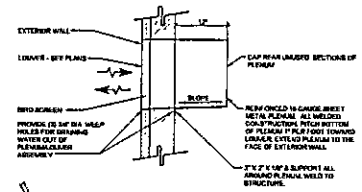
GRAVITY RELIEF VENT DETAIL (SLOPED)

NOT TO SCALE 233123



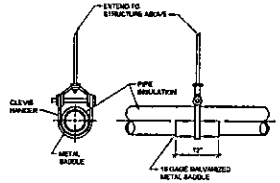
DUCT PENETRATION THROUGH FLOOR DETAIL

NOT TO SCALE 233113



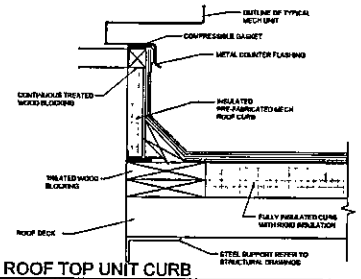
LOUVER DETAIL

NOT TO SCALE 233113



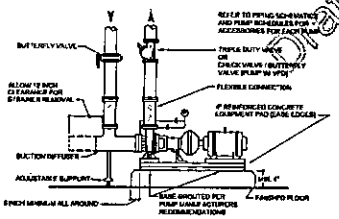
INSULATED PIPE HANGER DETAIL

NOT TO SCALE



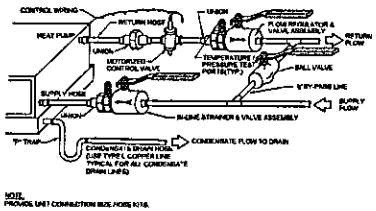
ROOF TOP UNIT CURB

NOT TO SCALE 233113



BASE-MOUNTED PUMP DETAIL

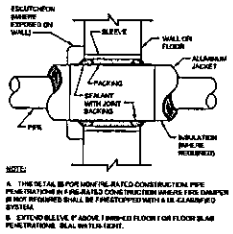
NOT TO SCALE



NOTE:
PROVIDE UNIT CONNECTION SIZE PER SCHED.

HEAT PUMP PIPING DETAIL

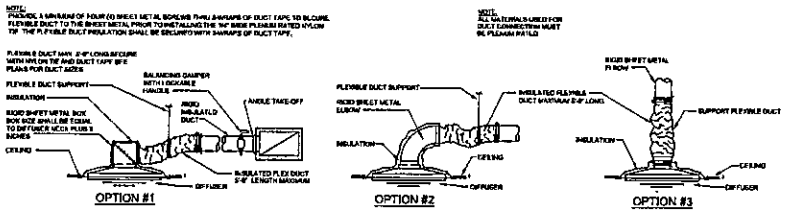
NOT TO SCALE 233114



NOTE:
A. THIS DETAIL IS FOR NONFIRE-RATED CONSTRUCTION. PIPE PENETRATIONS IN FIRE-RATED CONSTRUCTION WHERE FIRE DAMPER IS NOT REQUIRED SHALL BE FIRESTOPPED WITH A UL CLASSIFIED SYSTEM.
B. EXTEND SLEEVE 6" ABOVE FINISHED FLOOR FOR FLOOR SLAB PENETRATIONS. SEAL WITH GROUT.

PIPE PENETRATION THROUGH WALLS AND FLOORS DETAIL

NOT TO SCALE



DIFFUSER RUNOUT DETAIL

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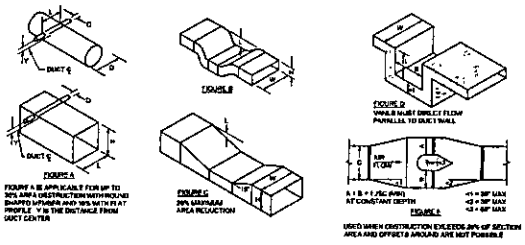

DUCT OBSTRUCTIONS

NOT TO SCALE

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SUMMIT ARCHITECTS • ENGINEERS

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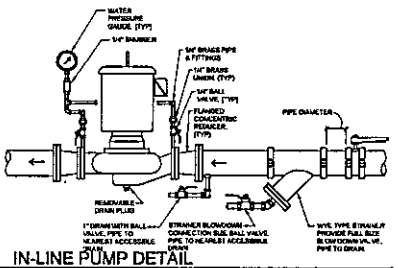
DUFF-ALLEN CENTRAL ELEMENTARY

MECHANICAL DETAILS

REVISIONS		
NO	DESCRIPTION	DATE

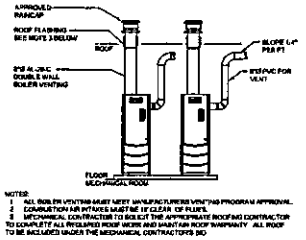
DATE: 6-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 166.003
SHEET:

M501



IN-LINE PUMP DETAIL

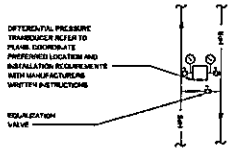
NOT TO SCALE



NOTES:
1. ALL BOILER VENTING MUST MEET MANUFACTURERS VENTING PROGRAM APPROVAL.
2. COMBUSTION AIR INTAKES MUST BE 18' CLEAR OF FLUES.
3. MECHANICAL CONTRACTOR TO SOLICIT THE APPROPRIATE ROOFING CONTRACTOR TO COMPLETE ALL REQUIRED ROOF WORK AND MAINTAIN ROOF WARRANTY. ALL ROOF TO BE INCLUDED UNDER THE MECHANICAL CONTRACTORS BID

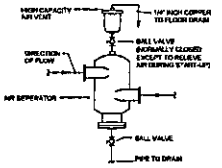
BOILER FLUE DETAIL

NOT TO SCALE



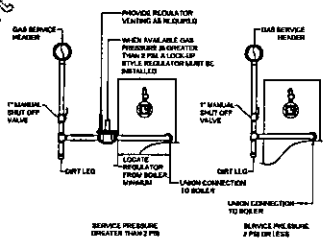
DIFFERENTIAL PRESSURE TRANSDUCER DETAIL

NOT TO SCALE



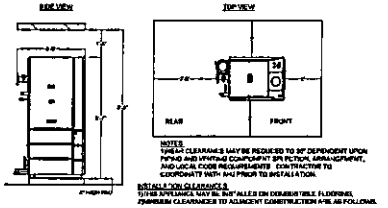
AIR SEPARATOR PIPING DETAIL

NOT TO SCALE



BOILER GAS CONNECTION DETAILS

NOT TO SCALE



NOTES:
1. REAR CLEARANCE MAY BE REDUCED TO 30" DEPENDENT UPON PIPING AND VENTING COMPONENT SELECTION, ARRANGEMENT, AND LOCAL CODE REQUIREMENTS. CONTRACTOR TO COORDINATE WITH AHJ PRIOR TO INSTALLATION.

INSTALLATION CLEARANCE:
1) THE BOILER MAY BE SUPPLIED ON COMBUSTIBLE FLOORING. MINIMUM CLEARANCES TO ADJACENT CONSTRUCTION ARE AS FOLLOWS:

LEFT & RIGHT SIDES: 24"
FRONT: 24"
REAR: 60"
CEILING HEIGHT: 18"

BOILER SERVICE CLEARANCES

NOT TO SCALE

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DUFF-ALLEN CENTRAL ELEMENTARY

MECHANICAL DETAILS

REVISIONS		
NO	DESCRIPTION	DATE

DATE:	6-7-2024
JOB STATUS	CD
DRAWN BY:	Author
CHECKED	Checker
PROJECT NO	168.003
SHEET:	

M502

WATER-SOURCE HEAT PUMP UNIT SCHEDULE

MARK (HP-#)	MANUFACTURER	MODEL	NOMINAL TONNAGE	CONFIG	CAPACITY MODULATION	ESP (IN H2O)	AIRFLOW (CFM)	FLUID FLOW (GPM)	WPD (FT H2O)	COOLING EAT DB/WB (°F)	COOLING LAT DB/WB (°F)	COOLING EWT/LWT (°F)	COOLING TOTAL (MBH)	COOLING SENSIBLE (MBH)	HEAT OF REJECTION (MBH)	EER AT DESIGN CONDITIONS	HEATING EAT/LAT (°F)	HEATING EWT/LWT (°F)	HEATING TOTAL (MBH)	HEAT OF ABSORPTION (MBH)	COP AT DESIGN CONDITIONS	V/Ø/Hz	FLA	MCA	MOCP	REMARKS
208	WATER FURNACE	VSAH012	1.0	HORIZONTAL	FULL	0.4	410	3.0	3.0	75.0/63.0	53.9	85.0/94.6	11.79	9.35	14.4	15.3	70.0/95.5	45.0/39.27	11.3	8.6	4.2	208/1/60	7.7	9.4	15	ALL
216	WATER FURNACE	VSAH018	1.5	HORIZONTAL	FULL	0.4	587	4.5	8.2	75.0/63.0	53.4	85.0/94.33	17.04	13.69	21.0	14.7	70.0/97.2	45.0/35.09	17.25	13.3	4.4	208/1/60	14.3	16.9	25.0	ALL
107, 119, 120, 121, 134, 135, 137, 207, 208, 212	WATER FURNACE	VSAH024	2.0	HORIZONTAL	FULL	0.7	812	6.0	7.0	75.0/63.0	55.8	85.0/94.7	23.57	16.84	29.1	14.5	70.0/94.4	45.0/39.7	21.35	15.9	3.9	460/3/60	5.9	6.9	15	ALL
					PART		719	5.0		75.0/63.0	61.0	85.0/92.6	15.23	10.88	19.0	13.7	70.0/89.7	45.0/39.84	17.02	12.9	4.1					
101, 103, 104, 105, 106, 108, 113, 115, 116, 117, 123, 124, 125, 126, 127, 128, 129, 130, 131, 138, 139, 201, 202, 204, 205, 206, 209, 210, 213	WATER FURNACE	VSAH036	3.0	HORIZONTAL	FULL	0.7	1231	9.0	8.4	75.0/63.0	54.1	85.0/94.67	35.58	27.84	43.5	15.4	70.0/96.3	45.0/38.98	34.93	27.1	4.5	460/3/60	6.9	8.7	15	ALL
					PART		1016	6.0		75.0/63.0	57.3	85.0/95.1	24.96	19.39	30.3	15.9	70.0/92.1	45.0/38.67	26.68	19.0	3.5					
102, 109, 110, 140	WATER FURNACE	VSAH048	4.0	HORIZONTAL	FULL	0.7	1530	12.0	9.0	75.0/63.0	53.8	85.0/94.18	44.69	35.05	55.1	14.6	70.0/98.3	45.0/38.97	46.74	36.2	4.4	460/3/60	10.8	12.5	15	ALL
					PART		1308	8.0		75.0/63.0	56.8	85.0/95.25	33.52	25.75	41.0	15.3	70.0/92.7	45.0/37.9	36.35	28.4	4.6					
111, 112, 118, 122, 132, 133	WATER FURNACE	VSAH060	5.0	HORIZONTAL	FULL	0.7	1998	15.0	13.6	75.0/63.0	54.6	85.0/94.53	56.79	44.08	71.5	13.2	70.0/96.8	45.0/39.36	56.07	42.3	4.1	460/3/60	10.9	12.6	15	ALL
					PART		1688	10.0		75.0/63.0	58.2	85.0/94.78	39.53	30.85	48.9	14.3	70.0/91.6	45.0/38.24	43.75	33.8	4.4					
141, 142	WATER FURNACE	VSCS018	1.5		FULL	0.1	600	4.5	12.8	75.0/63.0	54.1	85.0/93.93	15.78	13.52	20.1	12.3	70.0/94.5	45.0/39.76	15.89	11.6	3.9	208/1/60	12.8	15.4	25	ALL

REMARKS:
1. WITH DX CIRCUIT CONTROLLER ONLY. CONTROLLER TO BE PROVIDED BY MANUFACTURER
2. HIGH EFFICIENCY UNIT. ECM MOTOR
3. PROVIDE WITH FLEXIBLE DUCT CONNECTIONS AND VIBRATION ISOLATORS AS REQUIRED
4. PROVIDE LINE CONNECTION SIZE HOSE KITS WITH REDUCER AT UNIT CONNECTIONS
5. MODULATING WATER CONTROL VALVES BY TCC
6. PROVIDE WITH HOT GAS REHEAT
7. INSTALL PER MANUFACTURER'S INSTRUCTIONS
8. UNITS WITH PART LOAD CAPACITY SHALL BE TWO-STAGE UNITS
9. UNIT SELECTIONS BASED ON 100% WATER WITH NO INHIBITOR
10. DRAIN PAN WITH CONDENSATE OVERFLOW DEVICE
11. ALL UNITS SHALL HAVE COMBINATION THERMOSTAT/HUMIDISTAT SENSOR PROVIDED BY MANUFACTURER UNLESS OTHERWISE NOTED ON DRAWINGS
12. ALL PART LOAD CAPACITY INFORMATION IS AT AHRI CONDITIONS. ALL FULL LOAD CAPACITY INFORMATION IS AT DESIGN CONDITIONS
13. PROVIDE WITH MERV8 FILTER
14. PROVIDE WITH UNIT MOUNTED DISCONNECT

SELCTIONS BASED ON THE FOLLOWING CONDITIONS: COOLING FULL CAPACITY 75 EDB / 63 EWB, 77 EWT (PART LOAD MODULATION 70 EDB / 59 EWB, 60 EWT). HEATING FULL CAPACITY 68 EDB, 32 EWT (PART LOAD MODULATION 70 EDB, 75 EWT)
REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS AND ADDITIONAL REQUIREMENTS

INDROO PACKAGED OUTSIDE AIR UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	WEIGHT (lbs)	SUPPLY FAN AIRFLOW (CFM)	SUPPLY FAN MOTOR SIZE (kW)	SUPPLY FAN TSP (inH2O)	EXHAUST FAN AIRFLOW (CFM)	EXHAUST FAN MOTOR SIZE (kW)	EXHAUST FAN TSP (inH2O)	LAT LDB (F)	LAT LWB(F)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	QTY	REFRIGERANT	WINTER SUPPLY LDB/LWB F	WINTER RETURN EDB/RH	SUMMER SUPPLY LDB/LWB F	SUMMER RETURN EDB/RH	V/Ø/Hz	MCA	MOCP
ERU-01	UCA	AAH100G1ASTB6	600	500		1	500		1	75	62.5	35.197	11.753	1	R-454B					208/1/60	8.31	15
ERU-02	UCA	AAH100G1ASTB6	600	500		1	500		1	75	62.5	35.196	11.753	1	R-454B					208/1/60	8.31	15
ERU-03	UCA	AAH210G4AST82	2000	2190		1.5	2000		1.5	75	62.5	116.635	72.044	1	R-454B					460/3/60	32.4	45

REMARKS
1. COOLING DESIGN CONDITIONS: EAT 75F DB / 62F WB AND 92.8F DB / 77.9F WB AMBIENT. HEATING AMBIENT DESIGN CONDITIONS BASED ON 6.3F DB / 4.3F WB
2. AIR SOURCE DX COOLING. COMPRESSOR TO BE LOCATED INSIDE UNIT CABINET. UNIT TO BE MANUFACTURED FOR INDOOR INSTALLATION.
3. INSULATE OUTSIDE AIR DUCT ONLY, PER SPECIFICATIONS
4. PROVIDE UNIT WITH 2", 30% EFFICIENCY PRIMARY FILTERS
5. SINGLE POINT POWER CONNECTION WITH FACTORY INSTALLED DISCONNECT SWITCH
6. WITH ENERGY RECOVERY WHEEL
7. FAN CYCLING CONTROL OPTION
8. HIGH AND LOW PRESSURE SWITCH
9. COMPRESSOR SHORT CYCLE TIMER
10. WITH CONDENSATE PUMP AS REQUIRED. PROVIDE OVERFLOW SWITCH FOR INTEGRATION WITH BAS

OTHER ACCEPTABLE MANUFACTURERS SHALL COMPLY WITH SPECIFICATIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

PACKAGED ROOFTOP UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	EER	SUPPLY FAN AIRFLOW (CFM)	SUPPLY FAN TSP (inH2O)	COOLING LAT LDB (F)	COOLING LAT LWB(F)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	COMPRESSORS QTY	COMPRESSORS REFRIGERANT	HOT GAS REHEAT EAT DB/WB (°F)	HOT GAS REHEAT LAT (°F)	GAS HEAT TOTAL CAPACITY (MBH)	GAS HEAT EAT DB/WB (°F)	GAS HEAT LAT (°F)	V/Ø/Hz	MCA	MOCP	REMARKS
RTU-01	DAIKIN	DSG2404	10.8	6800	1.69	56.9	55.78	231.03	167.55	1	R-32	55	98.8	400	55	98.9	460/3/60	70	80	ALL

REMARKS
1. COOLING DESIGN CONDITIONS: EAT 75F DB / 60F WB AND 95F DB / 78F WB AMBIENT. HEATING AMBIENT DESIGN CONDITIONS BASED ON 5F DB / 4F WB
2. AIR SOURCE HEAT PUMP
3. PROVIDE ROOF TOP UNIT WITH 14" INSULATED ROOF CURB
4. SINGLE POINT POWER CONNECTION WITH FACTORY INSTALLED DISCONNECT SWITCH
5. ENERGY RECOVERY WHEEL
6. VARIABLE SPEED COMPRESSOR
7. 65 KAIC RATING
8. ECM FAN MOTORS
9. AIRFLOW MEASURING STATIONS ON SUPPLY FAN
10. MODULATING HOT GAS REHEAT

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: AAON, VALENT

AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	MAX CFM	MODULE (INCHES)	AIR PATTERN	NECK (INCHES)	MAX NC	REMARKS
S-1	PRICE	ASCD	390	24x24	4-WAY	8"Ø	20	ALL
S-2	PRICE	ASCD	290	24x24	4-WAY	8"Ø	20	ALL
S-3	PRICE	ASCD	50	12x12	4-WAY	4"Ø	20	ALL

REMARKS:
1. LAY-IN TYPE
2. REFER TO FLOOR PLAN FOR AIR PATTERN
3. PROVIDE WITH WHITE FINISH UNLESS SPECIFIED OTHERWISE BY ARCHITECT
4. PROVIDE SQUARE TO ROUND TRANSITIONS AS REQUIRED
5. ALUMINUM CONSTRUCTION ONLY

GENERAL NOTES:
COORDINATE AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS PRIOR TO INSTALLATION. LIGHTING HAS PRIORITY OVER HVAC.

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: KRUEGER, TITUS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

GAS BOILER SCHEDULE

MARK	MANUFACTURER	MODEL	MIN. GAS PRESS.	MBH INPUT	MBH OUTPUT	EWT	LWT	PRESS. DROP (FT. HD.)	FLUE SIZE	V/Ø/Hz	MCA	MOCP	REMARKS
B-01	BRYAN	FF-1500	4.14"	1,500	1,425	110	140	4.08	3"	120/1/60	13.1	15	ALL

REMARKS
1. CONDENSING TYPE BOILER WITH MINIMUM 10:1 TURNDOWN RATIO
2. PROVIDE WITH DIRECT VENT OPTION
3. PROVIDE WITH SEALED COMBUSTION
4. MINIMUM NATURAL GAS PRESSURE IS AT FULL LOAD
5. BOILERS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS
6. PROVIDE EMERGENCY GAS SHUT OFF VALVE AT ALL EXIT DOORS
7. WITH VARIABLE SPEED PUMP CONTROLLER (EC MOTOR APPLICATION). REFER TO PUMP SCHEDULE. INLINE PUMPS (BP-01, -02) MAY BE PROVIDED BY BOILER MANUFACTURER IN LIEU OF SCHEDULED PUMP

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: AERCO, CLEAVERBROOKS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

LOUVER SCHEDULE

MARK	MANUFACTURER	MODEL	INTAKE / EXHAUST	AIRFLOW (CFM)	SIZE (WxH) inches	PRESSURE DROP (FT)	FREE AREA (SF)	REMARKS
L-01	GREENHECK	ESD-202	INTAKE	500	20x20	0.05	0.8	ALL
L-02	GREENHECK	ESD-302	INTAKE	500	20x20	0.05	0.8	ALL
L-03	GREENHECK	ESD-635	EXHAUST	2000	32x20	0.05	3.3	ALL
L-04	GREENHECK	ETD-635	INTAKE	2190	32x30	0.07	3.3	ALL

REMARKS
1. LOUVER COLOR SHALL BE SELECTED BY ARCHITECT DURING SUBMITTALS
2. COORDINATE ALL LOUVER LOCATIONS WITH ARCHITECT
3. PROVIDE WITH BIRD SCREEN
4. ALUMINUM LOUVER
5. DRAINABLE BLADES

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
ACCEPTABLE MANUFACTURERS SHALL BE: RUSKIN, SUNVENT, UNITED ENERTECH, VENTSHADE, VKMF PRODUCTS

PUMP SCHEDULE

MARK	MANUFACTURER	MODEL	FLOW (GPM)	HEAD (FT)	RPM	CONNECTIONS INLET	CONNECTIONS OUTLET	HP	V / Ø / Hz	MCA	MOCP	REMARKS
P-02A	TACO	FM011C	570	90	1760	4	5	20	460/3/60	33.75	60	1,2,3,5
P-02B	TACO	FM011C	570	80	1760	4	5	20	460/3/60	33.75	60	1,2,3,5
BP-01	TACO	KV3007D	130	15	1190	3	3	1	208/3/60	6	15	4,6
CT-01A	TACO	VML	270	50	1200	6	6	5	460/3/60	9.5	15	2,3,7
CT-01B	TACO	VML	270	50	1200	6	6	5	460/3/60	9.5	15	2,3,7

REMARKS
1. BASE-MOUNTED END SUCTION PUMP
2. PROVIDE WITH SUCTION DIFFUSER
3. PREMIUM EFFICIENCY MOTOR FOR USE WITH VARIABLE FREQUENCY DRIVE
4. PROVIDE CHECK VALVE IN SUPPLY DISCHARGE
5. PUMP IMPELLER TO BE SELECTED AT MAXIMUM DIAMETER TO ACHIEVE HIGHEST EFFICIENCY
6. SPLIT-COUPLED IN-LINE PUMP
7. COOLING TOWER PUMP

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: ARMSTRONG, B&G, GRUNDFOS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

GRAVITY HOOD SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	SIZE WIDTH (IN)	SIZE HEIGHT (IN)	SIZE LENGTH (IN)	PRESSURE DROP (IN WG)	INTAKE/ EXHAUST	REMARKS
GV-01	GREENHECK	GRSR	500	20.5	19.25	20.5	0.169	EXHAUST	ALL
GV-02	GREENHECK	GRSR	500	20.5	19.25	20.5	0.165	EXHAUST	ALL

REMARKS:
1. WITH 14" INSULATED ROOF CURB
2. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: RUSKIN, UNITED ENERTECH. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

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183 REBEL LN, EASTERN, KY 41622

MECHANICAL SCHEDULES

REVISIONS		
NO.	DESCRIPTION	DATE

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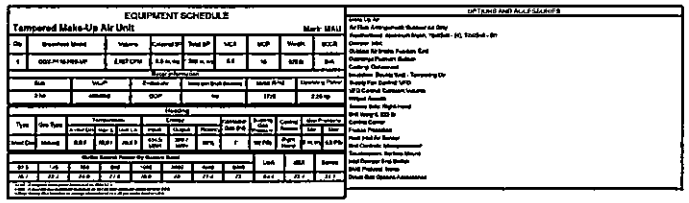
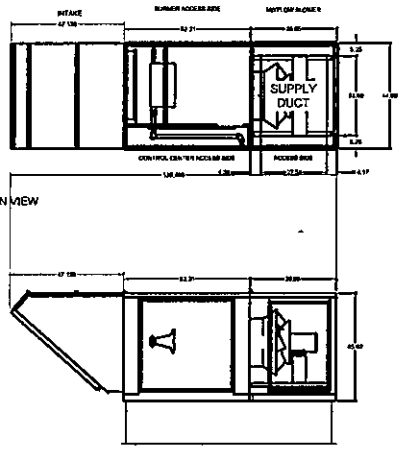
DATE:	6-7-2024
JOB STATUS:	CD
DRAWN BY:	Author
CHECKED:	Checker
PROJECT NO:	166.003
SHEET:	

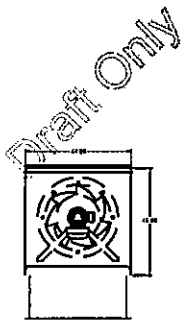
M601



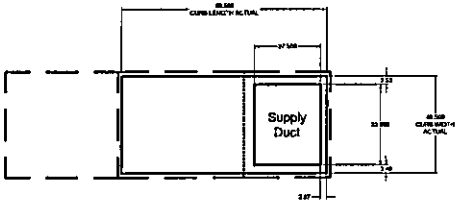


PLAN VIEW

ELEVATION VIEW



END VIEW



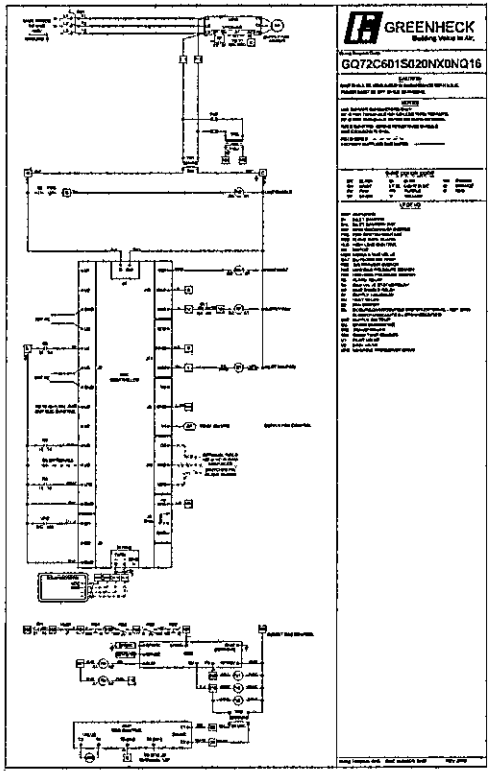
NOTE: Roof Opening Requirements:

Minimum Roof Opening: The minimum roof opening size is the illustrated duct diameter plus 0.25 in. on all sides.
For example: If the duct size is 14 x 14 in. square, the minimum roof opening size is 14.5 x 14.5 in. square.

Maximum Roof Opening: There must be a minimum perimeter of 1.75 in. between the roof opening and the roof curb.
For example: If the roof curb is 75 x 30 in. square, the maximum roof opening is 71.5 x 26.5 in. inches square.

NOTE: The weatherhood and filter sections of the make-up air unit are not supported by the curb.
This is by design, in order to help alleviate water infiltration issues.

FOOTPRINT



041026 DUFF ELEMENTARY STW

PROJECT NO 4/12/2023

KZ/RK

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GREENHECK

DUFF-ALLEN CENTRAL ELEMENTARY

KITCHEN MAKE UP AIR DETAILS

SUMMIT ARCHITECTS • ENGINEERS

SHROUT TATE WILSON

Lexington - Louisville - Charleston
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CHECKED	Checker
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SHEET:	

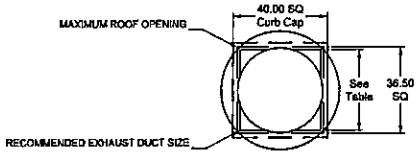
M801

Belt Drive Upblast Centrifugal Roof Exhaust Fan

MARK INFORMATION		FAN INFORMATION									SOUND INFORMATION					MOTOR INFORMATION								
MARK	QTY	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (IN. WG)	TOTAL EXTERNAL SP (IN. WG)	FAN SPEED (RPM)	OUTLET VELOCITY (FT/MIN)	FEI	TOTAL WEIGHT (LB)	INLET dBA	INLET SONES	INLET SONES (SPHERICAL)	OUTLET dBA	OUTLET SONES	OPERATING POWER (HP)	MOTOR SIZE (HP)	FEP INPUT POWER (KW)	ENCLOSURE	VOLTAGE	CYCLE	PHASE	EC MOTOR	NEC FLA*
KEF	1	CUBE-300HP-50	Belt	5,825	1.75	1.75	870	1,359.69	1.2	274.7	71.19	26.42	0	0	0	2.97	5	2.54	OP	460	60	3	No	7.6

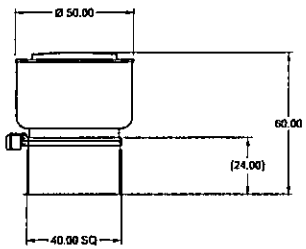
NEC FLA - Based on table 430.250 or 430.248 of National Electrical Code 2020. Actual motor FLA may vary for sizing thermal overload, consult factory

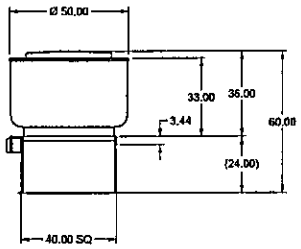
KEF : SELECTED OPTIONS AND ACCESSORIES
Standard Curb Cap Size - 40 Square
UL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762)
Switch, NEMA-1, Toggle,
Hinged Curb Cap Kit w/Cables (PN 919441) & Support Bracket (Shipped Loose)
High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
Grease Trap (PN 475538)
Heat Baffle (Attached)
Bearings with Grease Fittings, L10 life of 100,000 hrs (L50 avg. life 500,000 hrs)
Aluminum Wheel Material

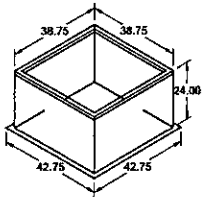


DUCT TYPE	SIZE
STANDARD	34 SQ
FIRE-WRAPPED	28 SQ

Draft Only







DUCT DIMENSIONS ARE LARGEST POSSIBLE DUCT TO FIT THROUGH CURB.
CONSULT SYSTEM DESIGN ENGINEER FOR RECOMMENDED DUCT SIZE.

OVERALL HEIGHT MAY BE GREATER DEPENDING ON
MOTOR, ADAPTER, AND/OR HINGE BASE.

PROJECT: 041525 DUFF ELEMENTARY STW
MARK:

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(502)244-1600

GREENHECK

SUMMIT ARCHITECTS+ENGINEERS

SHROUT TATE WILSON

DUFF-ALLEN CENTRAL ELEMENTARY

KITCHEN EXHAUST FAN DETAILS

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M802

ELECTRICAL LEGEND

ONE LINE DIAGRAM

SYMBOL	DESCRIPTION
XXY	CIRCUIT BREAKER
GF	GROUND FAULT PROTECTION
VFD	VARIABLE FREQUENCY DRIVE
DMM	DIGITAL MONITORING METER
SPD	SURGE PROTECTION DEVICE
DMD	DIGITAL METER DISPLAY
	POWER METERING DEVICE
	NON FUSED SWITCH
XYY	FUSED SWITCH
XXY	FUSE
	RELAY (NORMALLY OPEN)
XXY	PANEL
	DOUBLE THROW SWITCH OR TRANSFER SWITCH
	3 POSITION SELECTOR SWITCH: LOCAL-OFF-REMOTE HAND-OFF-AUTOMATIC
	GROUND
	ELECTRIC HEATER

DEMOLITION vs EXISTING LINE WEIGHTS

DEMO	EXISTING

POWER

SYMBOL	DESCRIPTION
	TAMPER RESISTANT DUPLEX RECEPTACLE - SUBSCRIPT INDICATES THE FOLLOWING: C - INSTALL 4 INCHES ABOVE COUNTER OR BACKSPLASH, CM - CEILING MOUNTED, E - EMERGENCY, G - GROUND FAULT CIRCUIT INTERRUPTER, GS - GFI AND FACE GROUND FAULT INTERRUPT, IG - ISOLATED GROUND, P - SPLIT-WIRED PLUG LOAD CONTROL, WP - WEATHER PROOF, U - WITH USB PORT
	TAMPER RESISTANT QUADRUPLEX RECEPTACLE
	TAMPER RESISTANT SINGLE RECEPTACLE
	TAMPER RESISTANT SPECIAL PURPOSE RECEPTACLE
	TAMPER RESISTANT PEDESTAL MOUNTED RECEPTACLE
	TAMPER RESISTANT FLOOR MOUNTED RECEPTACLE AND COVERPLATE. SEE PLAN FOR CONFIGURATION
	POKE THRU BOX
	COMBO POKE THRU BOX
	COMBINATION FLOOR BOX WITH THREE DUPLEX RECEPTACLES AND RJ45 DATA JACKS. PROVIDE WITH COVERPLATE. INSTALL CATEGORY UTP WET LOCATION CABLES IN A 1 INCH CONDUIT FROM THE DATA COMPARTMENT TO THE NEAREST MDF OR IDF (X - INDICATES THE NUMBER OF JACKS AND CABLES)
	EMERGENCY SHUT-OFF BUTTON
	JUNCTION BOX
	HAND DRYER
	DISCONNECT SWITCH (SIZE/FUSE/POLES/NEMA - OPTIONAL)
	ENCLOSED CIRCUIT BREAKER DISCONNECT (SIZE/POLES/NEMA - OPTIONAL)
	COMBINATION MOTOR STARTER AND DISCONNECT (SIZE/FUSING/POLES/NEMA - OPTIONAL)
	MOTOR STARTER (SIZE/NUMBER/POLES/NEMA - OPTIONAL)
	VARIABLE FREQUENCY DRIVE
	MOTOR
	TRANSFORMER, X - INDICATES IDENTIFICATION
	SURFACE MOUNTED PANELBOARD/DISTRIBUTION PANEL/AUTOMATIC TRANSFER SWITCH, X - INDICATES IDENTIFICATION
	FLUSH MOUNTED PANELBOARD, X - INDICATES IDENTIFICATION
	EXISTING SURFACE MOUNTED PANELBOARD/DISTRIBUTION PANEL, Y - INDICATES IDENTIFICATION
	EXISTING FLUSH MOUNTED PANELBOARD, Y - INDICATES IDENTIFICATION
	GROUND ROD
	LOW-VOLTAGE CIRCUIT WITH CONDUCTOR TYPES AS REQUIRED BY THE MANUFACTURER FOR THE PARTICULAR SYSTEM
	UTP LIGHTING CONTROL CABLE
	CIRCUIT CONNECTED TO EMERGENCY POWER
	SURFACE MOUNTED RACEWAY
4B, 10, 12, 1"C, A-1	BRANCH CIRCUIT HOMERUN TO PANELBOARD. THE NUMBER OF TICK MARKS INDICATES THE NUMBER OF CONDUCTORS. LONG TICK MARKS REPRESENT UNGROUNDED CONDUCTORS, SHORT TICK MARKS REPRESENT GROUNDED CONDUCTORS (NEUTRAL) & GROUNDING CONDUCTOR (GROUND) SHALL BE INSTALLED WITH ALL CIRCUITS. TICK MARKS AND CONDUCTOR SIZES ARE ONLY SHOWN ON THE HOMERUN, INSTALL THE REQUIRED QUANTITY AND SIZE CONDUCTORS TO EACH DEVICE ON THE SAME CIRCUIT AS INDICATED ON THE DRAWINGS. MINIMUM CONDUCTOR SIZE = #12 MINIMUM CONDUIT SIZE = 3/4 INCH SUBSCRIPT EXAMPLE: 4#8 = (3) UNGROUNDED AND (1) NEUTRAL CONDUCTORS SIZE IF OTHER THAN #12 1#10 = GROUNDING CONDUCTOR SIZE IF OTHER THAN #12 1"C = CONDUIT SIZE A-1 = PANEL NAME - POLE POSITION IN PANEL
	ELECTRICAL METER

FIRE ALARM

SYMBOL	DESCRIPTION
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM NOTIFICATION DEVICE (WALL & CEILING) - SUBSCRIPT INDICATES THE FOLLOWING: S - STROBE, SS - SPEAKER STROBE, H - HORN, HS - HORN STROBE, SP - SPEAKER
	FIRE ALARM INITIATION DEVICE (WALL & CEILING) - SUBSCRIPT INDICATES THE FOLLOWING: S - SMOKE, H - HEAT, CO - CARBON MONOXIDE, CS - COMBINATION CARBON MONOXIDE/SMOKE, CH - COMBINATION CARBON MONOXIDE/HEAT
	FIRE ALARM INITIATION AND NOTIFICATION DEVICE (WALL & CEILING) - SUBSCRIPT INDICATES THE FOLLOWING: SS - COMBINATION SMOKE DETECTOR SOUNDER BASE
	FIRE ALARM DUCT TYPE SMOKE DETECTOR - SUBSCRIPT INDICATES EQUIPMENT IDENTIFICATION TAG
	MAGNETIC DOOR HOLDER (WALL & CEILING)
	FIRE ALARM TAMPER SWITCH
	FIRE ALARM FLOW SWITCH
	FIRE ALARM AIR PRESSURE SWITCH
FACP	FIRE ALARM CONTROL PANEL, PANEL IS RECESSED TYPE WHEN SHOWN WITHIN WALLS ON DRAWING
FAA	FIRE ALARM ANNUNCIATOR PANEL IS RECESSED TYPE WHEN SHOWN WITHIN WALLS ON DRAWING

SYSTEMS

SYMBOL	DESCRIPTION
	EXISTING COMMUNICATIONS OUTLET
WAP	DATA OUTLET FOR WIRELESS ACCESS POINT WITH TWO RJ45 DATA JACKS WITH TWO UTP CABLES IN SURFACE RACEWAY, 1 INCH CONDUIT OR CABLE TRAY TO THE NEAREST MDF OR IDF (WALL & CEILING)
#V#D	VOICE/DATA OUTLET WITH # VOICE AND # OF DATA JACKS AND # UTP CABLES IN SURFACE RACEWAY, 1 INCH CONDUIT, OR CABLE TRAY TO THE NEAREST MDF OR IDF (#V - INDICATES THE NUMBER OF VOICE JACKS AND CABLES, #D - INDICATES THE NUMBER OF DATA JACKS AND CABLES), C - INSTALL 4 INCHES ABOVE COUNTER OR BACKSPLASH, CG - CEILING MOUNTED
#V#D	PEDESTAL MOUNTED VOICE/DATA OUTLET WITH #VOICE AND # DATA JACKS AND # RJ45 DATA JACKS AND # UTP WET LOCATION CABLES IN A 1 INCH CONDUIT TO THE NEAREST MDF OR IDF (#V - INDICATES THE NUMBER OF VOICE JACKS AND CABLES, #D - INDICATES THE NUMBER OF DATA JACKS AND CABLES)
#V#D	FLOOR BOX WITH # RJ45 DATA JACKS, PROVIDE WITH COVERPLATE. INSTALL # UTP WET LOCATION CABLES IN A 1 INCH CONDUIT FROM THE DATA COMPARTMENT TO THE NEAREST MDF OR IDF (# - INDICATES THE NUMBER OF JACKS AND CABLES)
	MULTIMEDIA OUTLET: 4-11/16 INCHES OUTLET BOX WITH TWO 1-1/4 INCH CONDUITS TO ABOVE ACCESSIBLE CEILING (WALL & CEILING)
	VGA/RCA OUTLET WITH ONE VGA CONNECTION AND TWO RCA CONNECTORS. INSTALL CABLES IN SURFACE RACEWAY, 1-1/4 INCH CONDUIT, J-HOOKS OR CABLE TRAY. THE VGA CABLE MUST BE RAPID RUN TYPE WITH REMOVABLE HEADS OR APPROVED EQUAL
	TELEVISION OUTLET WITH ONE F-TYPE CONNECTOR WITH COAXIAL CABLE IN SURFACE RACEWAY, 3/4 INCH CONDUIT, OR CABLE TRAY TO THE TELEVISION DISTRIBUTION SYSTEM
	PROJECTOR (CEILING & WALL MOUNT)
ACC	ADMINISTRATIVE CONTROL CENTER, CONNECT TO THE INTERCOM SYSTEM AS REQUIRED
	DOOR RELEASE BUTTON
	INTERCOM SPEAKER (CEILING, RECESSED WALL MOUNTED, HORN-TYPE WALL MOUNTED)
	INTERCOM SPEAKER WITH INTEGRAL VOLUME CONTROL (CEILING & WALL MOUNT)
	SELF-AMPLIFIED SPEAKER (CEILING & WALL MOUNT)
	SOUND SYSTEM SPEAKER (SC - CAFETERIA, SG - GYMNASIUM, SM - MEDIA CENTER)
	SPEAKER VOLUME CONTROL
	SINGLE SIDED CLOCK (DIGITAL & ANALOG)
	DOUBLE SIDED CLOCK (DIGITAL & ANALOG)
	MICROPHONE OUTLET
	AUXILIARY INPUT OUTLET FOR THE LOCAL SOUND SYSTEM

ABBREVIATIONS

±18"	±"# INDICATES THE MOUNTING HEIGHT OF THE DEVICE TO BOTTOM
1Ø	1-PHASE
3Ø	3-PHASE
ATS	AUTOMATIC TRANSFER SWITCH
BTM	BOTTOM
CT	CURRENT TRANSFORMER
EOE	EXISTING OVERHEAD ELECTRIC
EOF	EXISTING OVERHEAD FIBER OPTIC
EOP	EXISTING OVERHEAD PRIMARY
EOS	EXISTING OVERHEAD SECONDARY
EOT	EXISTING OVERHEAD TELEPHONE
EUE	EXISTING UNDERGROUND ELECTRIC
EUF	EXISTING UNDERGROUND FIBER OPTIC
EUP	EXISTING UNDERGROUND PRIMARY
EUS	EXISTING UNDERGROUND SECONDARY
EUT	EXISTING UNDERGROUND TELEPHONE
EOTV	EXISTING OVERHEAD TELEVISION
EUTV	EXISTING UNDERGROUND TELEVISION
GF	GROUND FAULT PROTECTION
GND	GROUND
KWH	KILO WATT HOUR
OE	OVERHEAD ELECTRIC
OF	OVERHEAD FIBER OPTIC
OP	OVERHEAD PRIMARY
OS	OVERHEAD SECONDARY
OT	OVERHEAD TELEPHONE
OTV	OVERHEAD TELEVISION
PT	POTENTIAL TRANSFORMER
SPD	SURGE PROTECTIVE DEVICE
UE	UNDERGROUND ELECTRIC
UF	UNDERGROUND FIBER OPTIC
UP	UNDERGROUND PRIMARY
US	UNDERGROUND SECONDARY
UT	UNDERGROUND TELEPHONE
UTP	UNSHIELDED TWISTED PAIR
UTV	UNDERGROUND TELEVISION
WG	PROVIDE DEVICE WITH MANUFACTURER'S WIREGUARD.
WP	PROVIDE DEVICE WITH WEATHERPROOF COVER. RECEPTACLES TO BE WEATHER-RESISTANT TYPE AND PROVIDED WITH A CAST ALUMINUM, EXTRA DUTY, WHILE-IN-USE COVER

ELECTRICAL DEVICE MOUNTING HEIGHTS

SWITCHES	48 INCHES TO TOP
INTERIOR RECEPTACLES	18 INCHES TO BOTTOM
EXTERIOR RECEPTACLES	24 INCHES TO BOTTOM
COMMUNICATIONS / DATA OUTLETS	18 INCHES TO BOTTOM
FIRE ALARM MANUAL PULL STATIONS	48 INCHES TO TOP
FIRE ALARM HORN/STROBE SIGNAL	80 INCHES TO BOTTOM
FIRE ALARM STROBE SIGNAL	80 INCHES TO BOTTOM
WALL TELEPHONES	48 INCHES TO TOP
TELEVISION OUTLETS	72 INCHES TO BOTTOM
CLOCKS	84 INCHES TO TOP
NOTE: MOUNTING HEIGHTS UNLESS OTHERWISE NOTED ON DRAWINGS.	

GENERAL NOTES:

DEMOLITION

A. ALL ELECTRICAL ITEMS SHOWN AS LIGHTER WEIGHT ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

B. ALL ELECTRICAL ITEMS SHOWN IN HEAVIER WEIGHT SHALL BE REMOVED UNLESS OTHERWISE NOTED.

C. THE CONDUIT, CONDUCTORS, HANGERS, SUPPORTS, CONCRETE BASES, HOUSEKEEPING PADS, AND ANY OTHER ITEMS ASSOCIATED WITH EQUIPMENT SHOWN TO BE REMOVED SHALL ALSO BE REMOVED UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE REMOVED BACK TO THE SOURCE. ALL ACCESSIBLE CONDUITS SHALL BE REMOVED. EXISTING UNDERGROUND CONDUITS MAY BE ABANDONED IN PLACE AFTER THEIR ENDS HAVE BEEN REMOVED TO A MINIMUM OF 18 INCHES BELOW GRADE AND CAPPED.

D. WHERE ANY EXISTING ELECTRICAL ITEMS ARE SHOWN TO BE REMOVED, THE ELECTRICAL CONTRACTOR SHALL RECONNECT WIRING AS REQUIRED TO ENSURE ALL DOWNSTREAM DEVICES REMAIN OPERATIONAL.

E. REMOVE ALL EXISTING AND ACCESSIBLE ABANDONED LOW VOLTAGE CABLING. ACCESSIBLE AREAS INCLUDE, BUT NOT LIMITED TO, ABOVE LAY-IN CEILINGS, BELOW RAISED FLOORS AND EXPOSED LOCATIONS.

F. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHERE WALLS, FLOORS AND MATERIALS HAVE BEEN CUT, REMOVED OR MODIFIED AS A RESULT OF DEMOLITION. PATCHING AND REPAIRS SHALL MATCH THE ADJACENT EXISTING MATERIALS, RATINGS AND FINISHES.

G. REFER TO THE MECHANICAL, PLUMBING, AND FIRE PROTECTION PLANS FOR LOCATION OF EQUIPMENT REQUIRING ELECTRICAL DEMOLITION. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DISCONNECTING EQUIPMENT AND DEMOLISHING THE ASSOCIATED CONDUIT, CONDUCTORS, DISCONNECTS, STARTERS, ETC.

H. ALL EXISTING ITEMS SHOWN HAVE BEEN COMPILED FROM SITE SURVEYS, RECORD DRAWINGS AND VISUAL SITE INSPECTIONS. ALL ITEMS TO BE REMOVED MAY NOT BE SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO BECOME FAMILIAR WITH THE EXTENT OF THE DEMOLITION WORK REQUIRED.

I. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL EXISTING SYSTEMS ACTIVE UNTIL THEY ARE DEMOLISHED IN THEIR RESPECTIVE PHASES. PROVIDE ALL TEMPORARY CONNECTIONS AS REQUIRED. COORDINATE ALL DEMOLITION WORK WITH THE TIMING/SEQUENCE OF NEW WORK.

J. WHERE THE CONTRACT DOCUMENTS INCLUDE THE REMOVAL OF THE EXISTING CEILINGS, EXISTING CEILING MOUNTED DEVICES NOT SHOWN TO BE REMOVED SHALL BE PROTECTED, SUPPORTED IN-PLACE AND REINSTALLED IN THE NEW CEILING.

SYSTEMS

A. ALL FIRE ALARM CABLING SHALL BE INSTALLED WITHIN A MINIMUM OF 3/4 INCH CONDUIT.

B. ALL ELECTRICALLY CONDUCTIVE CABLES INSTALLED OUTDOORS SHALL BE PROVIDED WITH SURGE PROTECTION DEVICE(S). THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: FIRE ALARM CABLING FOR TAMPER SWITCHES, EXTERIOR MOUNTED SECURITY CAMERA CABLING, EXTERIOR MOUNTED SPEAKER CABLING AND CABLING BETWEEN SEPARATE BUILDINGS.

C. INSTALL A DEDICATED 4-PAIR CATEGORY 6A TELEPHONE CABLE FROM THE TELEPHONE DEMARCATION TO THE FIRE ALARM COMMUNICATOR/TRANSMITTER. CONNECT CABLE AHEAD OF ANY TELEPHONE SYSTEM AS REQUIRED FOR THE COMMUNICATOR/TRANSMITTER TO CAPTURE TWO TELEPHONE LINES.

SURFACE RACEWAY

A. ALL SURFACE RACEWAYS SHALL BE WIREMOLD 700 AND 2400 SERIES OR APPROVED EQUAL UNLESS NOTED OTHERWISE.

B. 700 SERIES SHALL BE USED FOR RECEPTACLES, SWITCHES AND FIRE ALARM DEVICES. 2400 SERIES SHALL BE INSTALLED FOR VOICE AND DATA CABLING.

C. ALL SURFACE RACEWAY IS TO BE MOUNTED ON EXISTING WALLS ONLY. USE SUPPORTING CLIPS AND NOT MOUNTING STRAPS. THE CONTRACTOR HAS THE OPTION TO FISH FLEXIBLE CONDUIT DOWN EXISTING WALLS IN LIEU OF USING SURFACE RACEWAY.

D. COORDINATE THE ROUTING OF ALL RACEWAY WITH WALL MOUNTED FURNISHINGS (I.E. TACKBOARDS, MARKERBOARDS, INTERACTIVE WHITEBOARDS, ETC.)

CABLING

A. ALL EXPOSED LOW VOLTAGE CABLING SHALL BE PLENUM RATED.

NOMINAL VOLTAGE

A. THE NOMINAL VOLTAGE FOR THE POWER DISTRIBUTION SYSTEM SHALL BE 120/240V, 120/208V OR 277/480V AS NOTED ON THE DRAWINGS.

B. THE CONTRACTOR SHALL CONFIRM THE SUPPLY VOLTAGE AT THE SERVICE IS NOMINAL PRIOR TO ENERGIZING PERMANENT POWER. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY AND ADJUST THE TAPS ON THE UTILITY TRANSFORMER AS NECESSARY TO PROVIDE THE SPECIFIED NOMINAL VOLTAGE AT THE SERVICE.

C. THE CONTRACTOR SHALL CONFIRM THE SUPPLY VOLTAGE ON EQUIPMENT CONNECTED TO THE SECONDARY OF DISTRIBUTION TRANSFORMERS IS NOMINAL PRIOR TO ENERGIZING. THE CONTRACTOR SHALL ADJUST THE TAPS ON DISTRIBUTION TRANSFORMERS AS NECESSARY TO PROVIDE THE SPECIFIED NOMINAL VOLTAGE AT THE EQUIPMENT.

D. THE CONTRACTOR SHALL INFORM THE ENGINEER IF THE VOLTAGE AT THE SERVICE OR AT THE EQUIPMENT CONNECTED TO THE SECONDARY OF DISTRIBUTION TRANSFORMERS IS MORE THAN +/- 5% OF NOMINAL.

E. THE CONTRACTOR SHALL PROVIDE A WRITTEN RECORD OF THE MEASURED VOLTAGES TO THE ENGINEER AND INCLUDE A COPY IN THE O&M MANUALS.

INTERRUPTIONS OF SERVICE

A. THE BUILDING SERVICES AND SYSTEMS SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF THE PROJECT. IF INTERRUPTIONS TO ANY SERVICE OR SYSTEM ARE NECESSARY TO FACILITATE COMPLETING THE PROJECT, THE CONTRACTOR SHALL:

1. ADVISE THE OWNER OF ANTICIPATED INTERRUPTIONS IN ADVANCE AND SCHEDULE FOR TIMES THAT ARE CONVENIENT TO THE OWNER AND ALL OTHER AFFECTED PARTIES.
2. COORDINATE AN ACCEPTABLE DURATION AND WORK AS NECESSARY TO MEET THE AGREED UPON SCHEDULE.
3. NO INTERRUPTIONS SHALL OCCUR PRIOR TO RECEIVING WRITTEN APPROVAL FROM THE OWNER AND ALL OTHER AFFECTED PARTIES.
4. FOR UNPLANNED INTERRUPTIONS, THE CONTRACTOR SHALL WORK CONTINUOUSLY TO RESTORE THE AFFECTED SERVICE(S) AND SYSTEM(S).

SUMMIT ARCHITECTS + ENGINEERS

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DUFF-ALLEN CENTRAL ELEMENTARY

ELECTRICAL LEGEND AND GENERAL NOTES

REVISIONS		
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DATE:	6-7-2024
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CHECKED:	Checker
PROJECT NO:	165.003
SHEET:	

E001

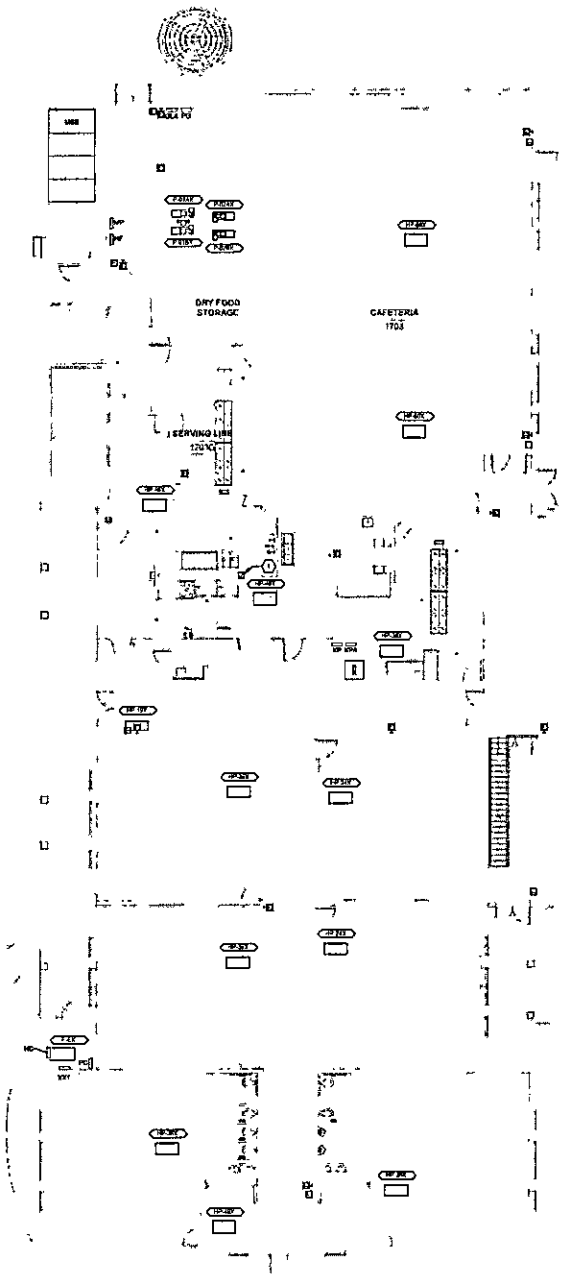
GENERAL NOTES

A. REFER TO DRAWING E001 FOR GENERAL ELECTRICAL NOTES.

B. REPLACE DEMOLISHED WALL-MOUNTED FIRE ALARM DEVICES WITH OWNER FURNISHED BLANK FACEPLATES.

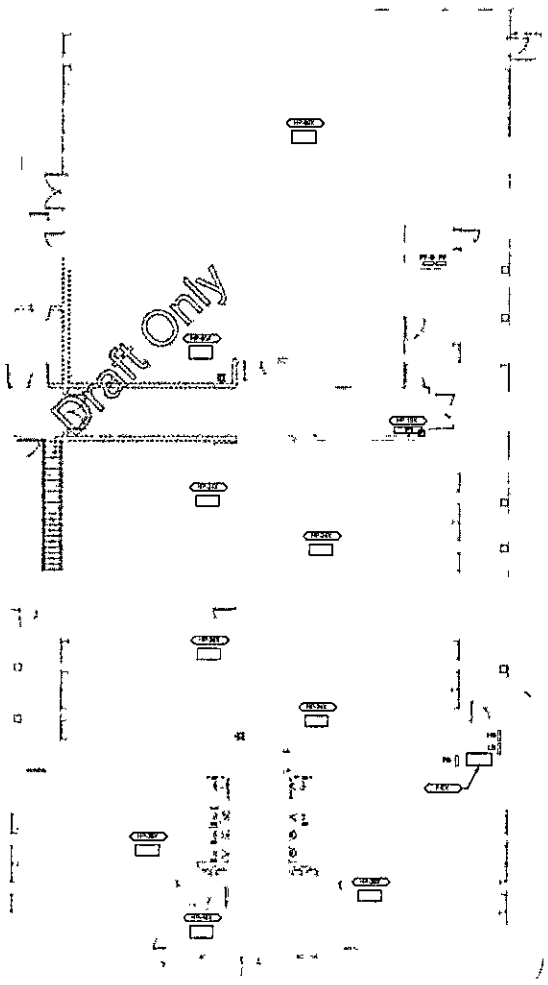
SHEET KEYNOTES

1. DEMOLISH EXISTING FIRE ALARM CONNECTION TO KITCHEN HOOD.



1 FIRST FLOOR - ELECTRICAL DEMO - AREA A

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



2 FIRST FLOOR - ELECTRICAL DEMO - AREA B

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

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FIRST FLOOR - AREA A & B - ELECTRICAL DEMO

REVISIONS		
NO.	DESCRIPTION	DATE

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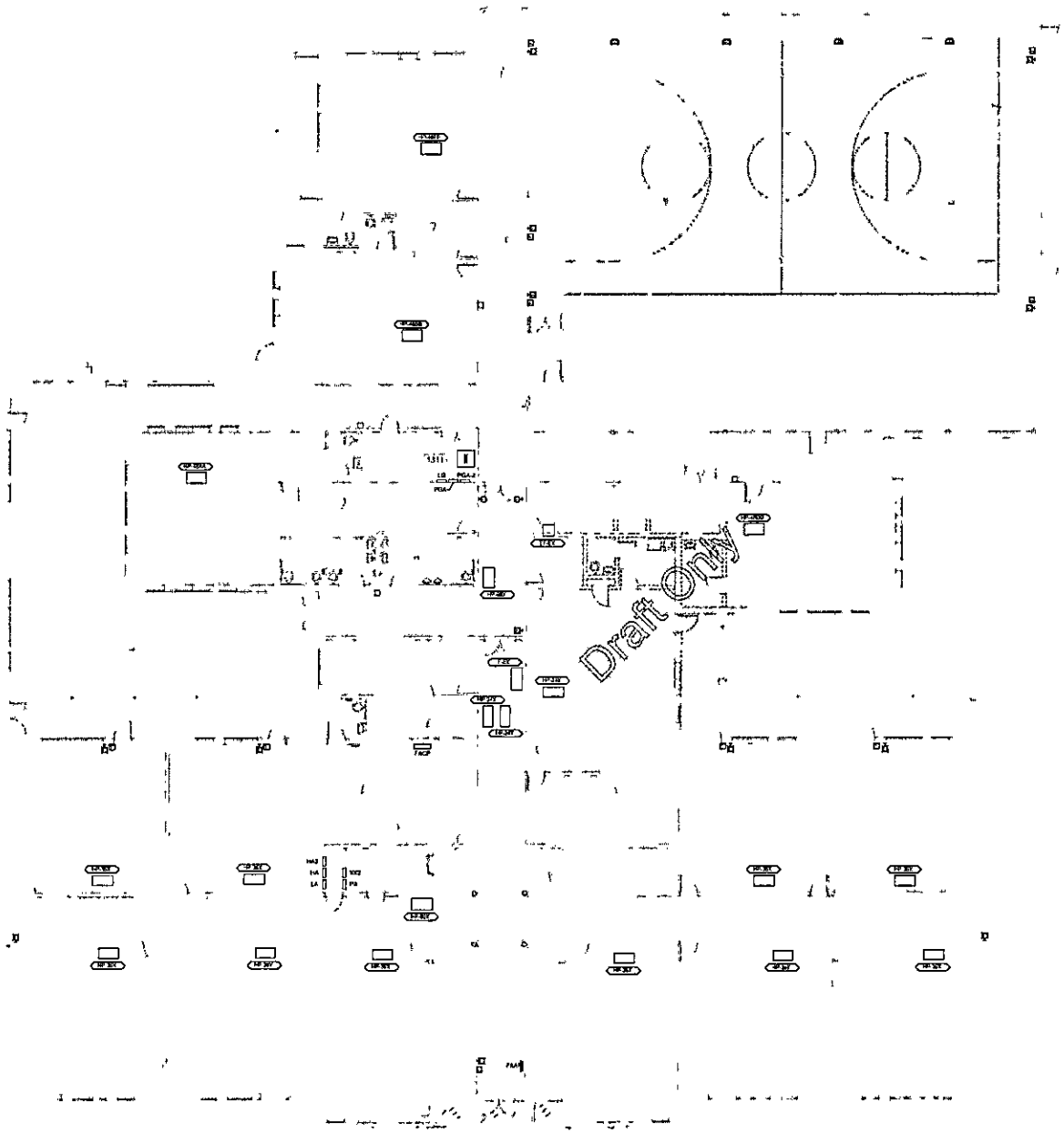
DATE:	6-7-2024
JOB STATUS:	CD
DRAWN BY:	Author
CHECKED:	Checker
PROJECT NO:	168.003

SHEET:

ED101



1 FIRST FLOOR - ELECTRICAL DEMO - AREA C

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

GENERAL NOTES

A. REFER TO DRAWING E001 FOR GENERAL ELECTRICAL NOTES.

B. REPLACE DEMOLISHED WALL-MOUNTED FIRE ALARM DEVICES WITH OWNER FURNISHED BLANK FACEPLATES.

SHEET KEYNOTES

1. DEMOLISH EXISTING FIRE ALARM CONNECTION TO KITCHEN HOOD.

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FIRST FLOOR - AREA C - ELECTRICAL DEMO

REVISIONS		
NO.	DESCRIPTION	DATE

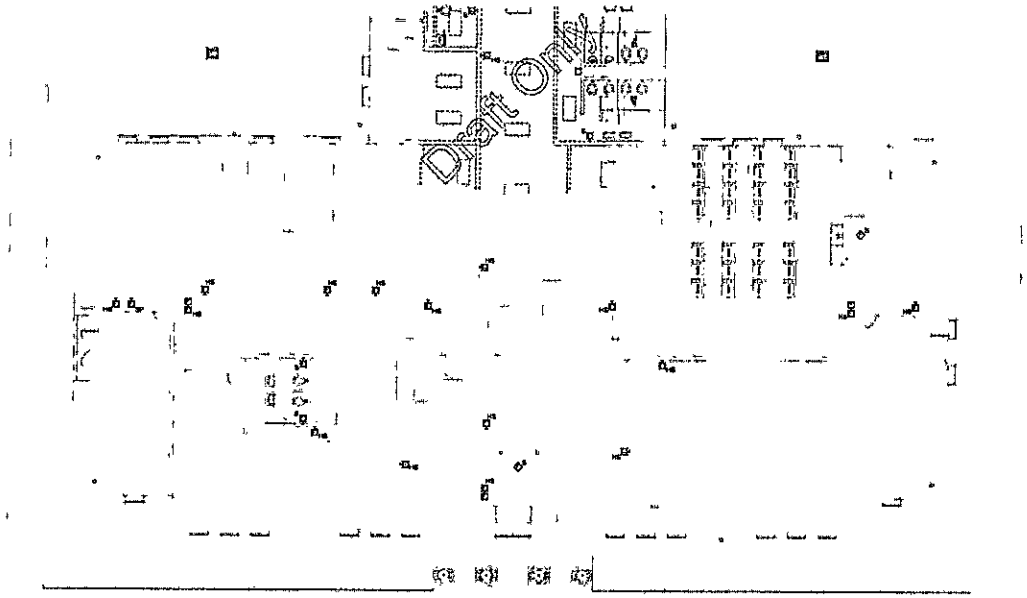
DATE: 6-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 198.003
SHEET:

ED102

GENERAL NOTES

A. REFER TO DRAWING E001 FOR GENERAL ELECTRICAL NOTES.

B. REPLACE DEMOLISHED WALL MOUNTED FIRE ALARM DEVICES WITH OWNER FURNISHED BLANK FACEPLATES.



1 FIRST FLOOR - ELECTRICAL DEMO - AREA D

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

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FIRST FLOOR - AREA D - ELECTRICAL DEMO

REVISIONS		
NO.	DESCRIPTION	DATE

DATE:	8-7-2024
JOB STATUS:	CD
DRAWN BY:	Author
CHECKED:	Checker
PROJECT NO:	168.003

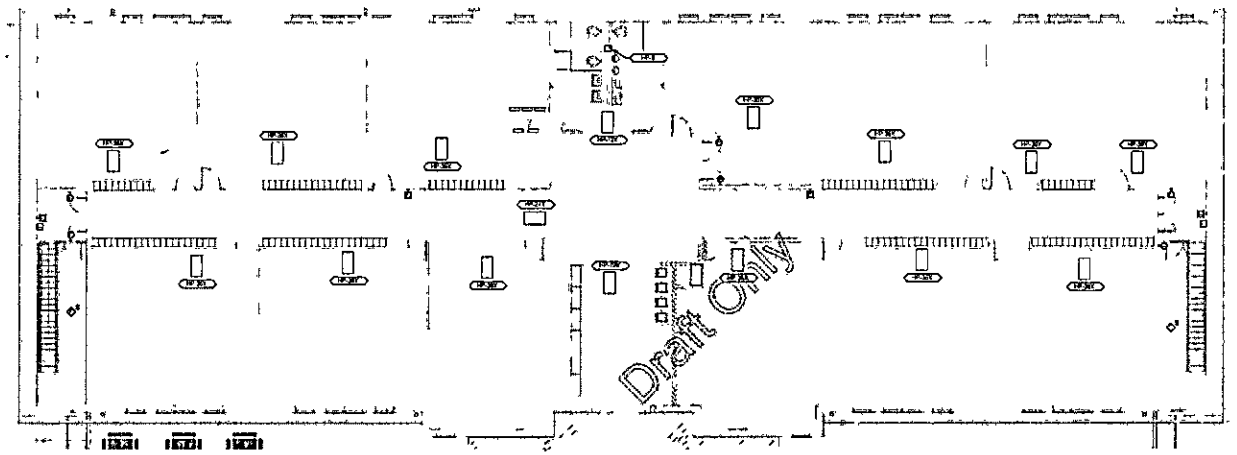
SHEET:

ED103

GENERAL NOTES

A. REFER TO DRAWING E001 FOR GENERAL ELECTRICAL NOTES.

B. REPLACE DEMOLISHED WALL-MOUNTED FIRE ALARM DEVICES WITH OWNER FURNISHED BLANK FACEPLATES.



1 SECOND FLOOR - ELECTRICAL DEMO

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

NOT IN CONTRACT

SUMMIT ARCHITECTS + ENGINEERS

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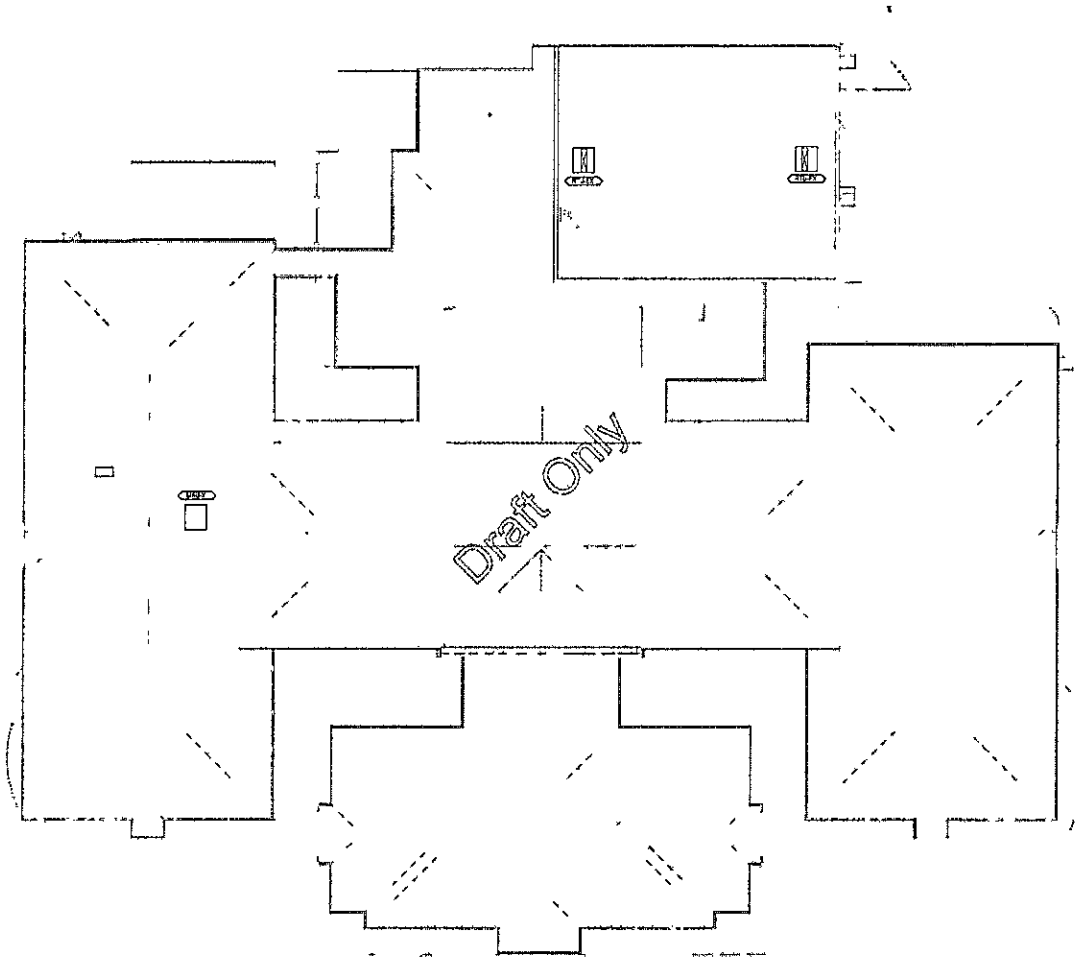
SECOND FLOOR - ELECTRICAL DEMO

REVISIONS		
NO.	DESCRIPTION	DATE

DATE:	6-7-2024
JOB STATUS:	CD
DRAWN BY:	Author
CHECKED:	Checker
PROJECT NO:	184.003
SHEET:	ED104

GENERAL NOTES

A. REFER TO DRAWING E001 FOR GENERAL ELECTRICAL NOTES.



1 ROOF - ELECTRICAL DEMO
SCALE: 1/16" = 1'-0"

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ROOF - ELECTRICAL DEMO

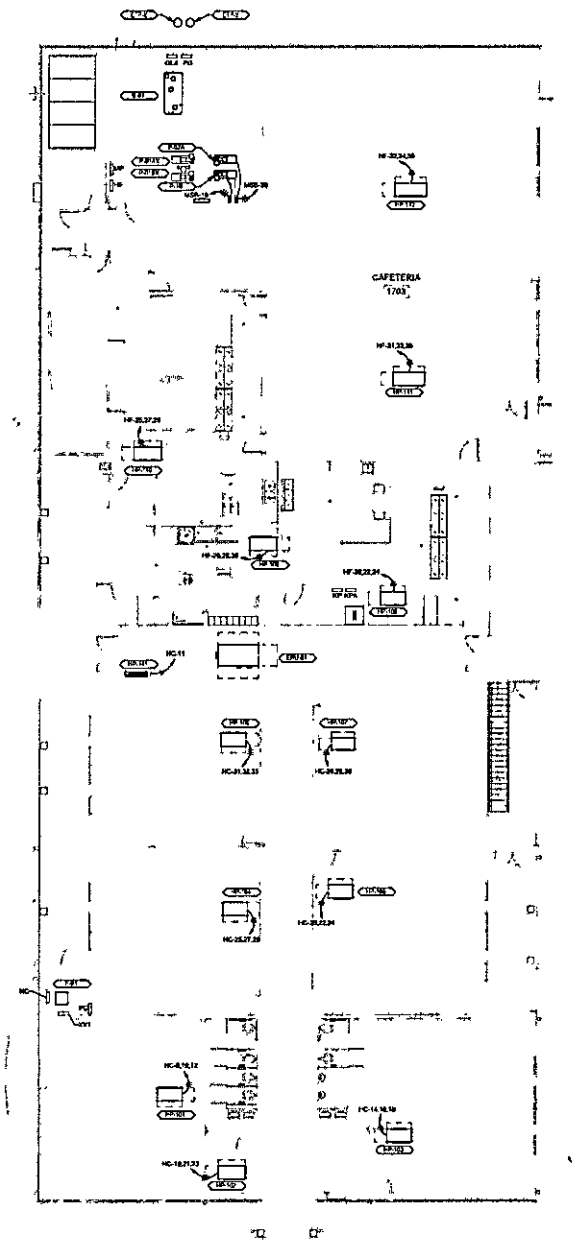
REVISIONS		
NO.	DESCRIPTION	DATE

DATE	6-7-2024
JOB STATUS	CD
DRAWN BY	Author
CHECKED	Checker
PROJECT NO.	188.003
SHEET	

ED105

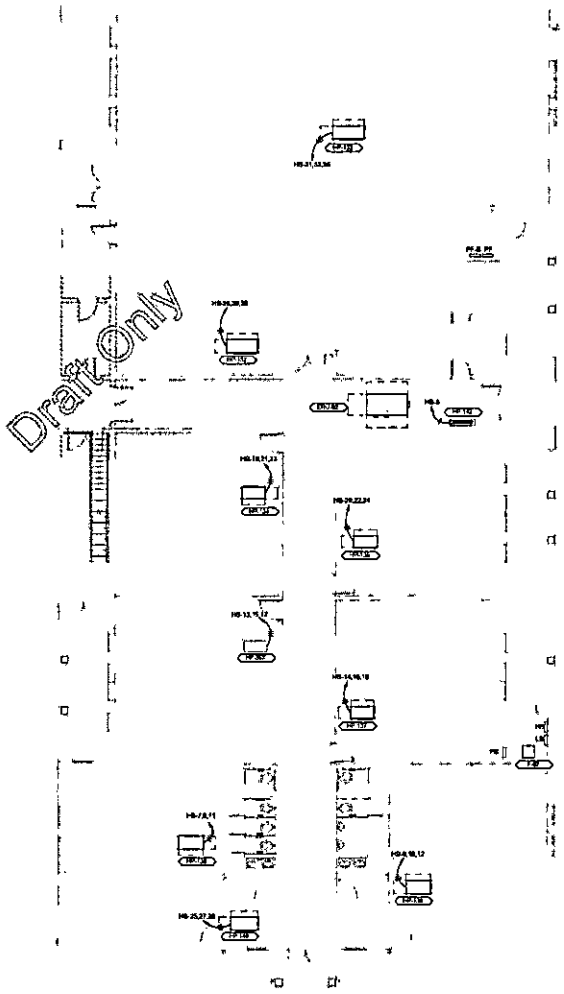
GENERAL NOTES

A. REFER TO DRAWING E001 FOR GENERAL ELECTRICAL NOTES.



1 FIRST FLOOR - AREA A - ELECTRICAL POWER

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



2 FIRST FLOOR - AREA B - ELECTRICAL POWER

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

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FIRST FLOOR - AREA A & B - ELECTRICAL POWER

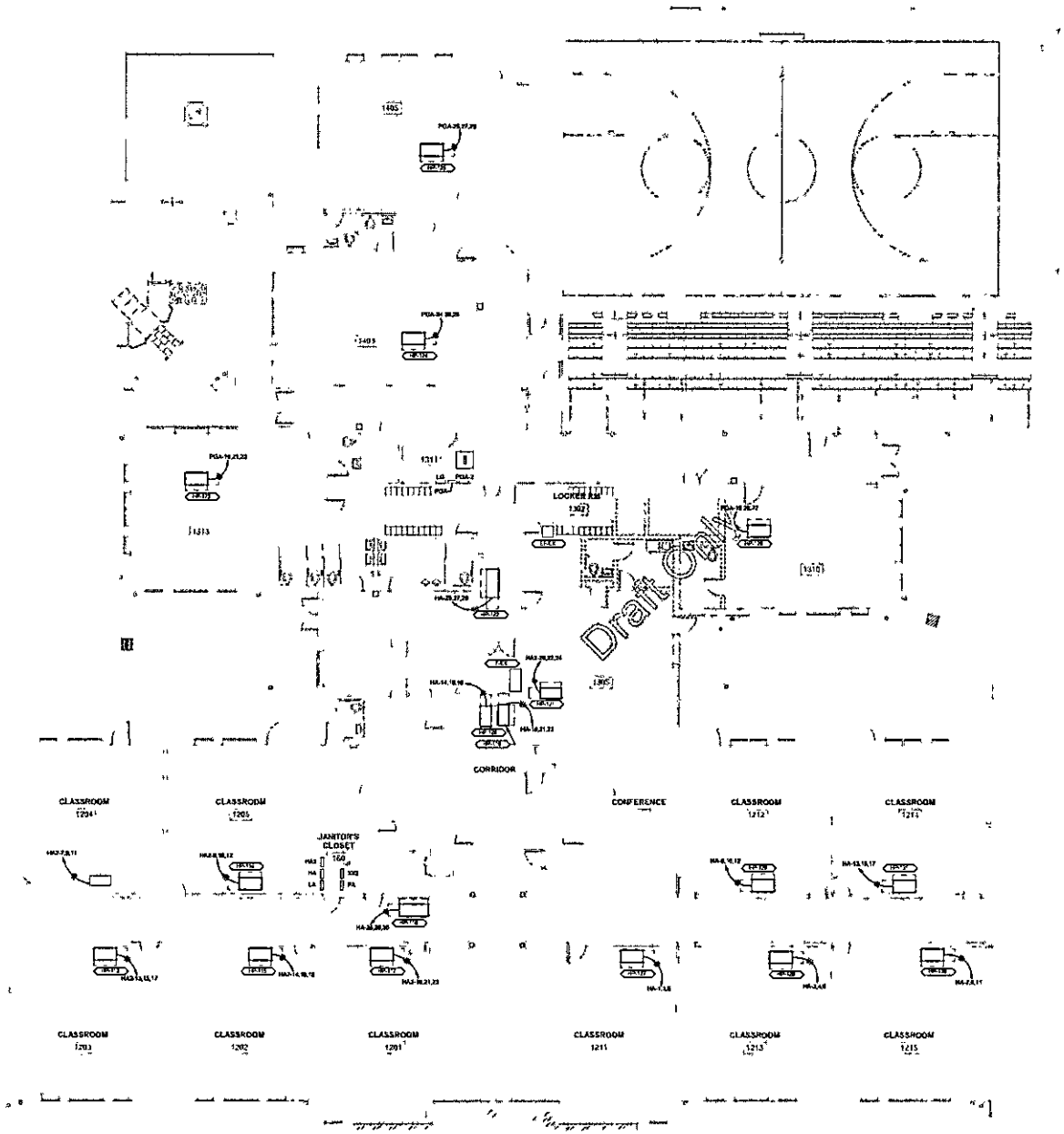
REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 6-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 166.003
SHEET:

E201

GENERAL NOTES

A. REFER TO DRAWING E201 FOR GENERAL ELECTRICAL NOTES.



1 FIRST FLOOR - AREA C - ELECTRICAL POWER

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

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FIRST FLOOR - AREA C - ELECTRICAL POWER

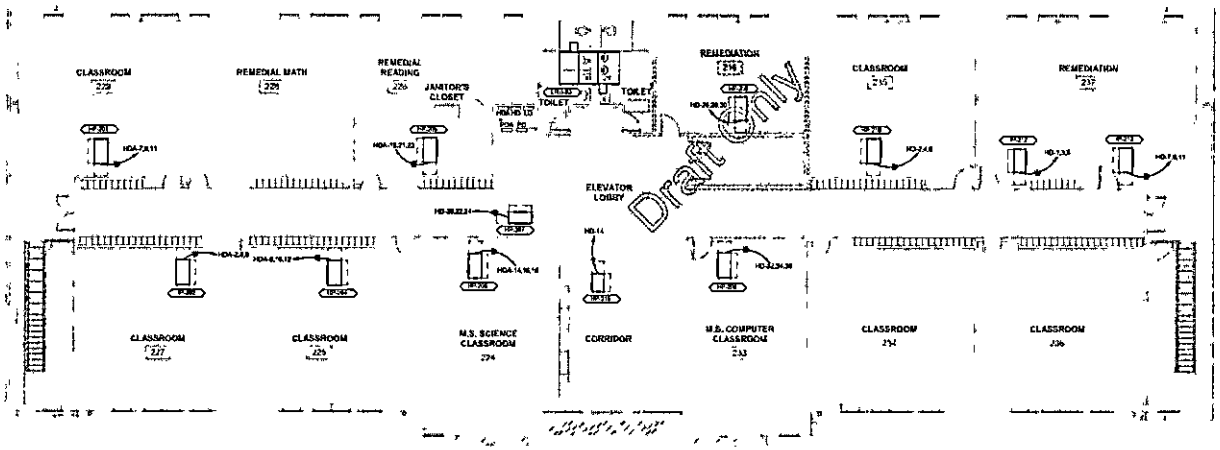
REVISIONS		
NO.	DESCRIPTION	DATE

DATE:	6-7-2024
JOB STATUS:	CD
DRAWN BY:	Author
CHECKED:	Checker
PROJECT NO:	164.003
SHEET:	

E202

GENERAL NOTES

A. REFER TO DRAWING E007 FOR GENERAL ELECTRICAL NOTES.



1 PARTIAL SECOND FLOOR - ELECTRICAL POWER

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

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SECOND FLOOR - ELECTRICAL POWER

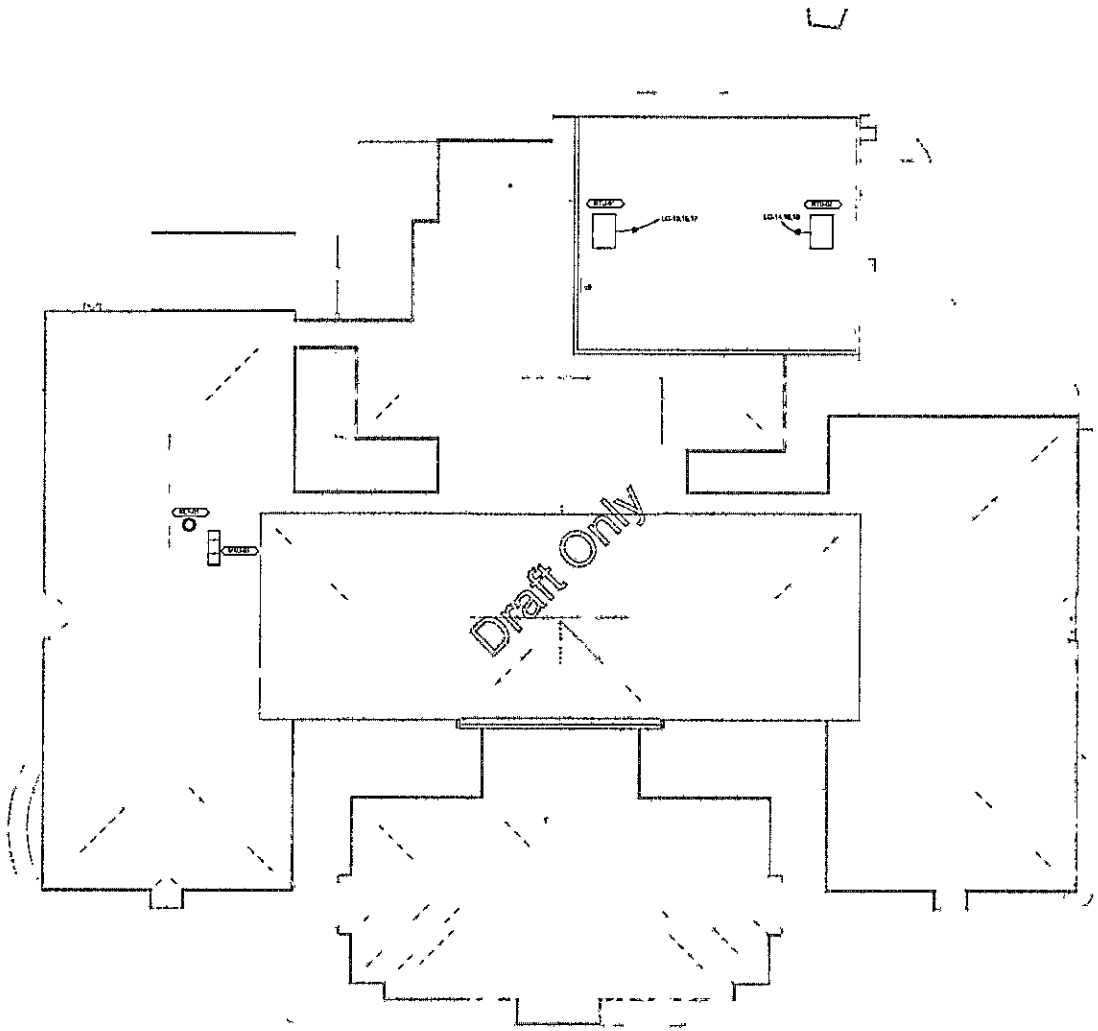
REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 6-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 168.003
SHEET:

E203

GENERAL NOTES

A. REFER TO DRAWING E001 FOR GENERAL ELECTRICAL NOTES.



1 ROOF - ELECTRICAL POWER
SCALE: 1/16" = 1'-0"

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ROOF - ELECTRICAL POWER

REVISIONS		
NO.	DESCRIPTION	DATE

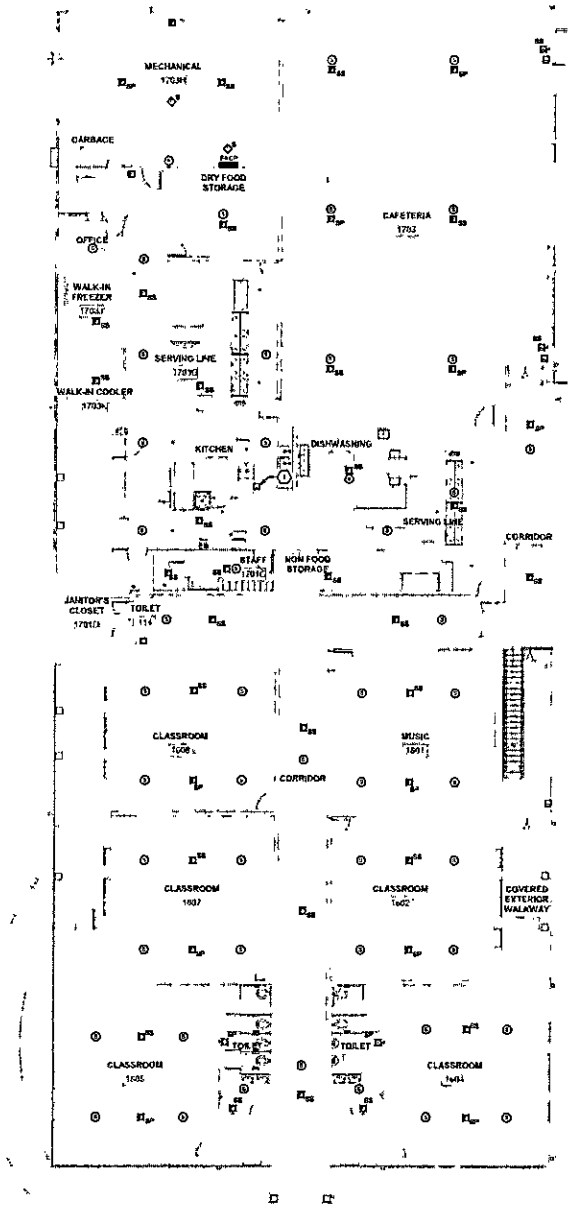
DATE: 6-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 166.003
SHEET:
E204

GENERAL NOTES

A. REFER TO DRAWING E001 FOR GENERAL ELECTRICAL NOTES.

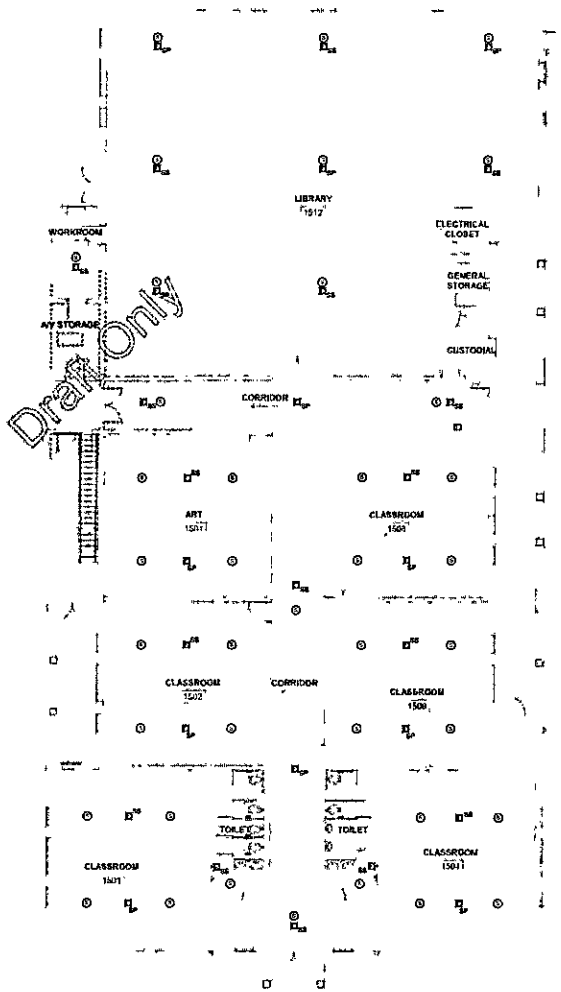
SHEET KEYNOTES

1. PROVIDE FIRE ALARM CONNECTION TO KITCHEN HOOD EQUIPMENT.



1 FIRST FLOOR - AREA A - ELECTRICAL SYSTEMS

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



2 FIRST FLOOR - AREA B - ELECTRICAL SYSTEMS

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

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FIRST FLOOR - AREA A & B - ELECTRICAL SYSTEMS

REVISIONS		
NO.	DESCRIPTION	DATE

DATE:	6-7-2024
JOB STATUS:	CD
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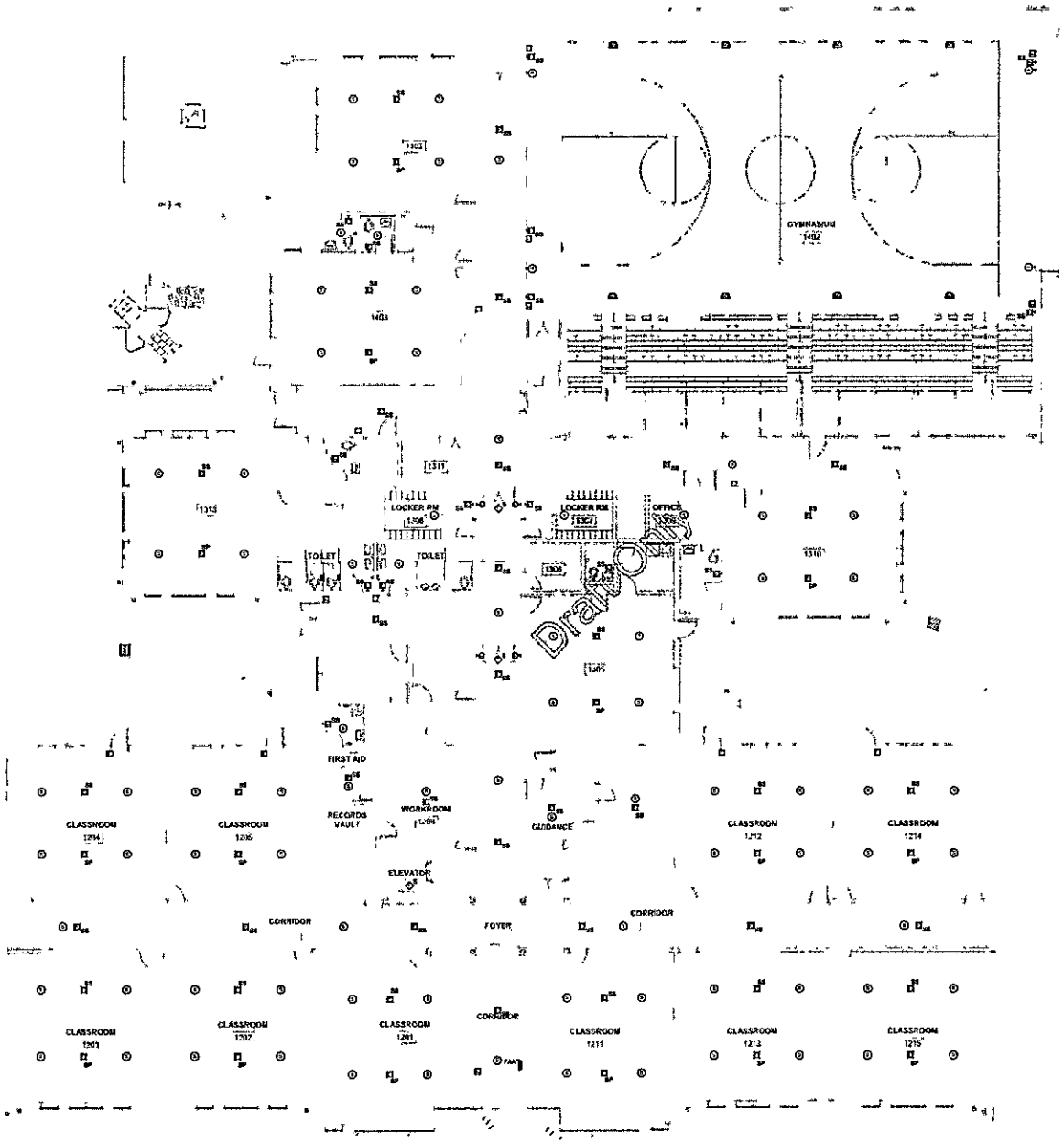
CHECKED:	Checker
PROJECT NO:	188.003
SHEET:	E301

GENERAL NOTES

A. REFER TO DRAWING E001 FOR GENERAL ELECTRICAL NOTES.



1 FIRST FLOOR - AREA C - ELECTRICAL SYSTEMS
SCALE: 1/8" = 1'-0"

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FIRST FLOOR - AREA C - ELECTRICAL SYSTEMS

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DATE:	6-7-2024
JOB STATUS:	CD
DRAWN BY:	Author
CHECKED:	Checker
PROJECT NO:	164.003

SHEET:

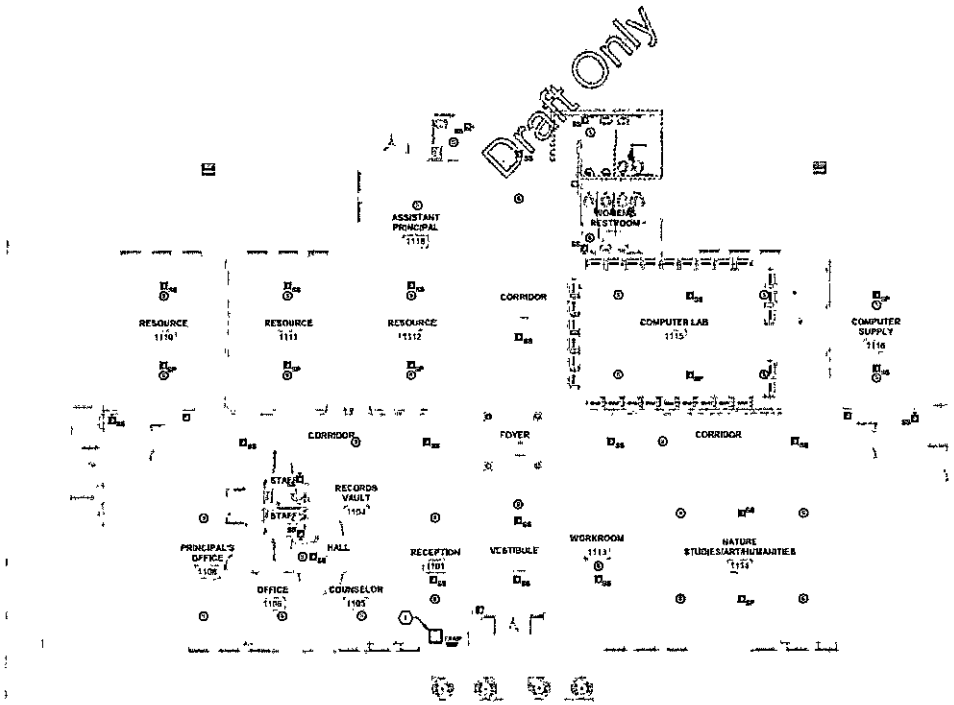
E302

GENERAL NOTES

A. REFER TO DRAWING E301 FOR GENERAL ELECTRICAL NOTES.

SHEET KEYNOTES

1. PROVIDE TELECOM BR LOCAL INTERCOM HEADEND AT RECEPTION DESK.



1 FIRST FLOOR - AREA D - ELECTRICAL SYSTEMS

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

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FIRST FLOOR - AREA D - ELECTRICAL SYSTEMS

REVISIONS		
NO.	DESCRIPTION	DATE

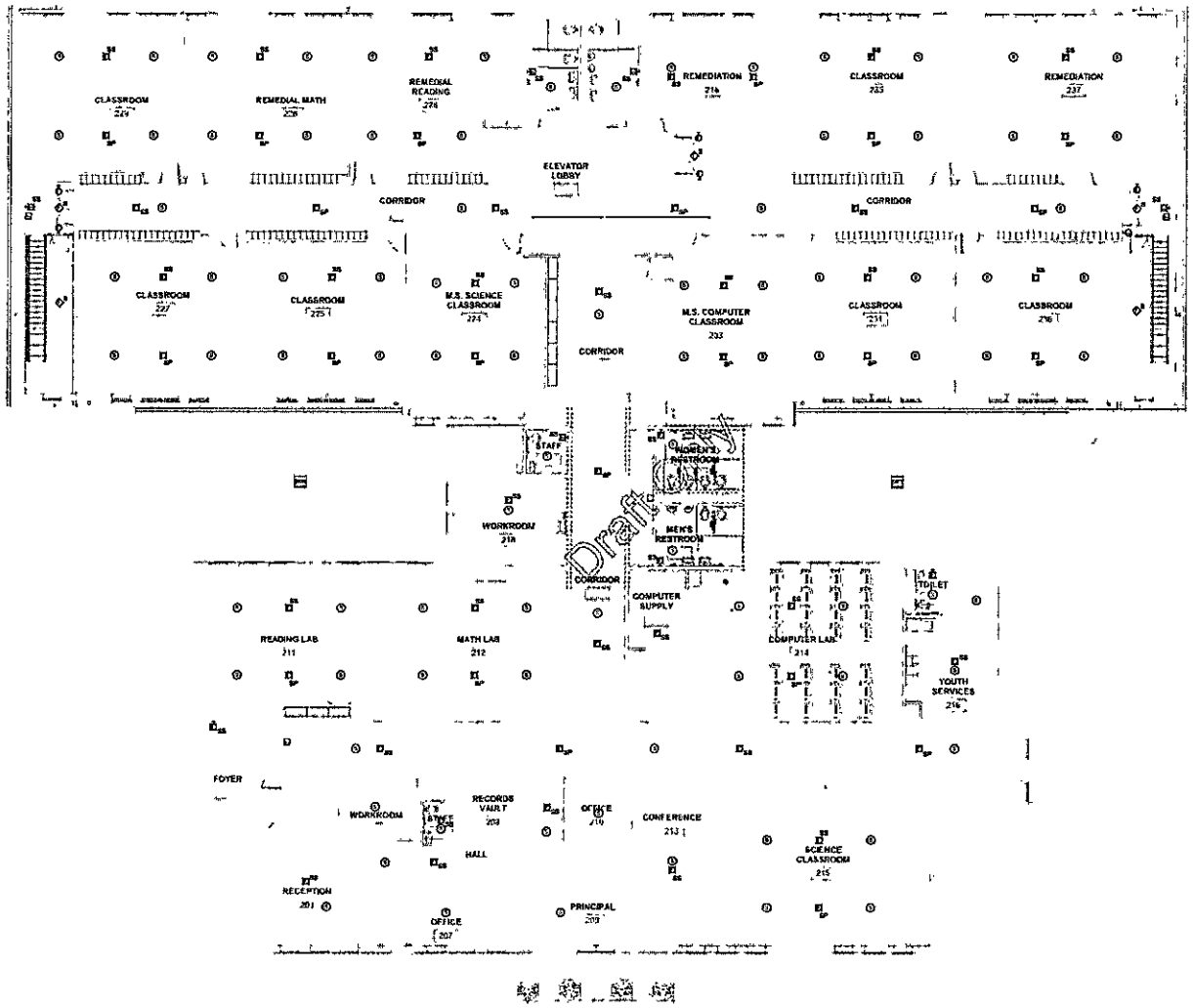
DATE:	5-7-2024
JOB STATUS:	CD
DRAWN BY:	Author
CHECKED:	Checker
PROJECT NO:	168 003

SHEET:

E303

GENERAL NOTES

A. REFER TO DRAWING E301 FOR GENERAL ELECTRICAL NOTES.



1 SECOND FLOOR - ELECTRICAL SYSTEMS

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

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GLASGOW, KY 42142

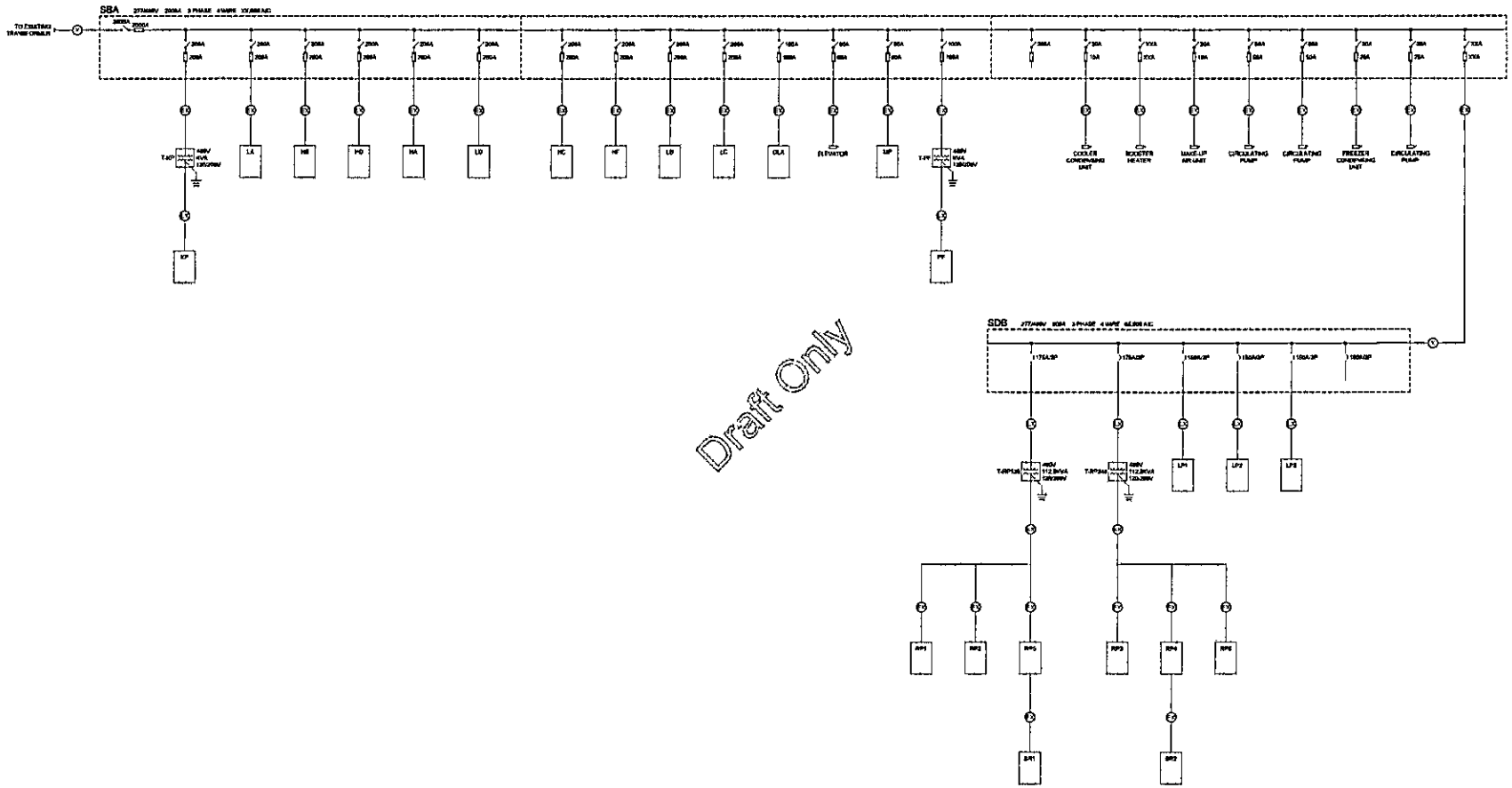
SECOND FLOOR - ELECTRICAL SYSTEMS

REVISION	DESCRIPTION	DATE

DATE:	6-7-2024
JOB STATUS	CD
DRAWN BY:	Author
CHECKED	Checker
PROJECT NO:	166.003

SHEET:

E304



EXISTING ELECTRICAL ONE-LINE DIAGRAM

NOT TO SCALE

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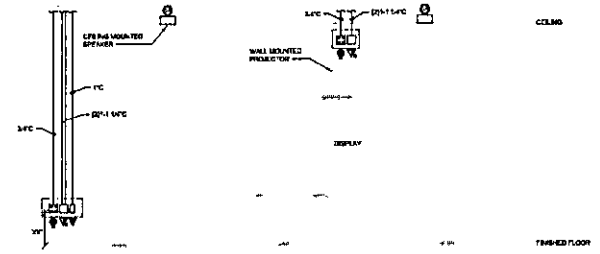
ELECTRICAL DETAILS

REVISION S		
NO.	DESCRIPTION	DATE

DATE: 6-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 164.003
SHEET:

E501

Draft Only



CLASSROOM AUDIO/VISUAL SYSTEM DETAIL

NOT TO SCALE

AUDIO/VISUAL ONE-LINE

NOT TO SCALE

SUMMIT ARCHITECTS + ENGINEERS

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ELECTRICAL DETAILS

REVISIONS		
NO.	DESCRIPTION	DATE

DATE: 8-7-2024
JOB STATUS: CD
DRAWN BY: Author
CHECKED: Checker
PROJECT NO: 166.003
SHEET:

E502

ELECTRICAL PANEL SCHEDULES

HA

BRANCH CIRCUIT PANELBOARD

VOLTAGE	3 PHASE	POLES	MAIN AMPS	MAIN TYPE	A.I. RATING	MOUNTING
277/480	4 WIRE	42	125 A	MLO	22,000	SURFACE

POLE NO.	TRIP	P	TYPE	LOAD SERVED	LOAD SERVED	TYPE	P	TRIP	POLE NO.
1	15	3		HP-127	HP-128		3	15	2
3	–	–		–	–		–	–	4
5	–	–		–	–		–	–	6
7	15	3		HP-130	HP-129		3	15	8
9	–	–		–	–		–	–	10
11	–	–		–	–		–	–	12
13	15	3		HP-131	HP-126		3	15	14
15	–	–		–	–		–	–	16
17	–	–		–	–		–	–	18
19	15	3		HP-119					20
21	–	–		–					22
23	–	–		–					24
25	15	3		HP-122	HP-118		3	15	26
27	–	–		–	–		–	–	28
29	–	–		–	–		–	–	30
31	20	3		EXISTING SPARE	EXISTING SPARE		3	20	32
33	–	–		–	–		–	–	34
35	–	–		–	–		–	–	36
37									38
39									40
41									42

PHASE TOTALS: A 0.0 · B 0.0 · C 0.0 — TOTAL: 0.0 kVA

NOTES: 1. 2.

ABBREVIATIONS: G - GFCI BREAKER, A - AFCI BREAKER, L - LOCKOUT BREAKER; S - SHUNT TRIP BREAKER, C - COMBINATION GFCI/AFCI BREAKER; E - ELECTRONIC ADJUSTABLE TRIP BREAKER; MCB - MAIN CIRCUIT BREAKER, MLO - MAIN LUG ONLY

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Other	0 VA	0.00%	0 VA	Total Conn. Load	0 VA
				Total Est. Demand	0 VA
				Total Conn.	0 A
				Total Est. Demand	0 A

HA2

BRANCH CIRCUIT PANELBOARD

VOLTAGE	3 PHASE	POLES	MAIN AMPS	MAIN TYPE	A.I. RATING	MOUNTING
277/480	4 WIRE	36	225 A	MLO	22,000	SURFACE

POLE NO.	TRIP	P	TYPE	LOAD SERVED	LOAD SERVED	TYPE	P	TRIP	POLE NO.
1	–	3		EXISTING SPACE	EXISTING SPACE		–	–	2
7	20	3		HP-114	HP-116		3	20	8
13	20	3		HP-113	HP-118		3	20	14
19	20	3		HP-117	HP-121		3	20	20

PHASE TOTALS: A 0.0 · B 0.0 · C 0.0 — TOTAL: 0.0 kVA

NOTES: 1. 2.

ABBREVIATIONS: G - GFCI BREAKER, A - AFCI BREAKER, L - LOCKOUT BREAKER; S - SHUNT TRIP BREAKER, C - COMBINATION GFCI/AFCI BREAKER; E - ELECTRONIC ADJUSTABLE TRIP BREAKER; MCB - MAIN CIRCUIT BREAKER, MLO - MAIN LUG ONLY

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Other	0 VA	0.00%	0 VA	Total Conn. Load	0 VA
				Total Est. Demand	0 VA
				Total Conn.	0 A
				Total Est. Demand	0 A

HB

BRANCH CIRCUIT PANELBOARD

VOLTAGE	3 PHASE	POLES	MAIN AMPS	MAIN TYPE	A.I. RATING	MOUNTING
277/480	4 WIRE	42	125 A	MLO	22,000	SURFACE

POLE NO.	TRIP	P	TYPE	LOAD SERVED	LOAD SERVED	TYPE	P	TRIP	POLE NO.
1	–	1		EXISTING SPACE					2
3	–	1		EXISTING SPACE					4
5	20	3		HP-142	HP-138		3	20	8
11	20	3		HP-136	HP-137		3	20	14
17	20	3		HP-134	HP-135		3	20	20
23	20	3		HP-140	HP-132		3	20	26
29	20	3		HP-133	EXISTING SPARE		3	20	32
35	20	3		EXISTING SPARE	EXISTING SPARE		3	20	38

PHASE TOTALS: A 0.0 · B 0.0 · C 0.0 — TOTAL: 0.0 kVA

NOTES: 1. 2.

ABBREVIATIONS: G - GFCI BREAKER, A - AFCI BREAKER, L - LOCKOUT BREAKER; S - SHUNT TRIP BREAKER, C - COMBINATION GFCI/AFCI BREAKER; E - ELECTRONIC ADJUSTABLE TRIP BREAKER; MCB - MAIN CIRCUIT BREAKER, MLO - MAIN LUG ONLY

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Other	0 VA	0.00%	0 VA	Total Conn. Load	0 VA
				Total Est. Demand	0 VA
				Total Conn.	0 A
				Total Est. Demand	0 A

HC

BRANCH CIRCUIT PANELBOARD

VOLTAGE	3 PHASE	POLES	MAIN AMPS	MAIN TYPE	A.I. RATING	MOUNTING
277/480	4 WIRE	42	225 A	MLO	22,000	SURFACE

POLE NO.	TRIP	P	TYPE	LOAD SERVED	LOAD SERVED	TYPE	P	TRIP	POLE NO.
1	–	1		EXISTING SPACE	EXISTING SPACE		1	–	2
3	–	1		EXISTING SPACE	EXISTING SPACE		1	–	4
5	–	1		EXISTING SPACE	EXISTING SPACE		1	–	6
7	–	1		EXISTING SPACE	HP-101		3	20	8
9	–	1		EXISTING SPACE					
11	20	1		HP-141	HP-103		3	20	14
19	20	3		HP-102	HP-105		3	20	20
25	20	3		HP-104	HP-107		3	20	26
31	20	3		HP-106					
37	20	3		SPARE					

PHASE TOTALS: A 0.0 · B 0.0 · C 0.0 — TOTAL: 0.0 kVA

NOTES: 1. 2.

ABBREVIATIONS: G - GFCI BREAKER, A - AFCI BREAKER, L - LOCKOUT BREAKER; S - SHUNT TRIP BREAKER, C - COMBINATION GFCI/AFCI BREAKER; E - ELECTRONIC ADJUSTABLE TRIP BREAKER; MCB - MAIN CIRCUIT BREAKER, MLO - MAIN LUG ONLY

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Other	0 VA	0.00%	0 VA	Total Conn. Load	0 VA
				Total Est. Demand	0 VA
				Total Conn.	0 A
				Total Est. Demand	0 A

HD

BRANCH CIRCUIT PANELBOARD

VOLTAGE	3 PHASE	POLES	MAIN AMPS	MAIN TYPE	A.I. RATING	MOUNTING
277/480	4 WIRE	36	125 A	MLO	22,000	SURFACE

POLE NO.	TRIP	P	TYPE	LOAD SERVED	LOAD SERVED	TYPE	P	TRIP	POLE NO.
1	20	3		HP-210	HP-216		3	20	2
7	20	3		HP-213					
21	–	1		SPACE	SPACE				
23	–	1		SPACE	SPACE				
25	20	3		EXISTING SPARE	HP-207		3	20	26
31	20	3		EXISTING SPARE	HP-209		3	20	32

PHASE TOTALS: A 0.7 · B 6.6 · C 0.5 — TOTAL: 7.9 kVA

NOTES: 1. PROVIDE FILLER PLATE. 2.

ABBREVIATIONS: G - GFCI BREAKER, A - AFCI BREAKER, L - LOCKOUT BREAKER; S - SHUNT TRIP BREAKER, C - COMBINATION GFCI/AFCI BREAKER; E - ELECTRONIC ADJUSTABLE TRIP BREAKER; MCB - MAIN CIRCUIT BREAKER, MLO - MAIN LUG ONLY

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
AC HEAT PUMP	7940 VA	125.00%	9925 VA	Total Conn. Load	7940 VA
				Total Est. Demand	9925 VA
				Total Conn.	10 A
				Total Est. Demand	12 A

HDA

BRANCH CIRCUIT PANELBOARD

VOLTAGE	3 PHASE	POLES	MAIN AMPS	MAIN TYPE	A.I. RATING	MOUNTING
277/480	4 WIRE	24	125 A	MLO	22,000	SURFACE

POLE NO.	TRIP	P	TYPE	LOAD SERVED	LOAD SERVED	TYPE	P	TRIP	POLE NO.
1					HP-202		3	20	2
5	–	1		SPACE					
7	20	3		HP-201	HP-204		3	20	8
13					HP-206		3	20	14
19	20	3		HP-205	EXISTING SPARE		3	20	20

PHASE TOTALS: A 0.0 · B 0.0 · C 0.0 — TOTAL: 0.0 kVA

NOTES: 1. PROVIDE FILLER PLATE. 2.

ABBREVIATIONS: G - GFCI BREAKER, A - AFCI BREAKER, L - LOCKOUT BREAKER; S - SHUNT TRIP BREAKER, C - COMBINATION GFCI/AFCI BREAKER; E - ELECTRONIC ADJUSTABLE TRIP BREAKER; MCB - MAIN CIRCUIT BREAKER, MLO - MAIN LUG ONLY

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
AC HEAT PUMP	0 VA	0.00%	0 VA	Total Conn. Load	0 VA
				Total Est. Demand	0 VA
				Total Conn.	0 A
				Total Est. Demand	0 A

HF

BRANCH CIRCUIT PANELBOARD

VOLTAGE	3 PHASE	POLES	MAIN AMPS	MAIN TYPE	A.I. RATING	MOUNTING
277/480	4 WIRE	42	225 A	MLO	22,000	SURFACE

POLE NO.	TRIP	P	TYPE	LOAD SERVED	LOAD SERVED	TYPE	P	TRIP	POLE NO.
1	–	1		EXISTING SPACE	EXISTING SPACE		1	–	2
3	–	1		EXISTING SPACE	EXISTING SPACE		1	–	4
5	–	1		EXISTING SPACE	EXISTING SPACE		1	–	6
7	–	1		EXISTING SPACE	EXISTING SPACE		1	–	8
9	–	1		EXISTING SPACE	EXISTING SPACE		1	–	10
11	–	1		EXISTING SPACE	EXISTING SPACE		1	–	12
13	–	1		EXISTING SPACE	EXISTING SPACE		1	–	14
15	–	1		EXISTING SPACE	EXISTING SPACE		1	–	16
17	–	1		EXISTING SPACE	EXISTING SPACE		1	–	18
19	–	1		EXISTING SPACE	HP-108		3	15	20
21	–	1		EXISTING SPACE	–		–	–	22
23	–	1		EXISTING SPACE	–		–	–	24
25	15	3		HP-110	HP-109		3	15	26
27	–	–		–	–		–	–	28
29	–	–		–	–		–	–	30
31	15	3		HP-111	HP-112		3	15	32
33	–	–		–	–		–	–	34
35	–	–		–	–		–	–	36
37	20	3		EXISTING SPARE	EXISTING SPARE		3	20	38
39	–	–		–	–		–	–	40
41	–	–		–	–		–	–	42

PHASE TOTALS: A 0.0 · B 0.0 · C 0.0 — TOTAL: 0.0 kVA

NOTES: 1. BOLD CIRCUIT INDICATES NEW CIRCUIT BREAKER 2.

ABBREVIATIONS: G - GFCI BREAKER, A - AFCI BREAKER, L - LOCKOUT BREAKER; S - SHUNT TRIP BREAKER, C - COMBINATION GFCI/AFCI BREAKER; E - ELECTRONIC ADJUSTABLE TRIP BREAKER; MCB - MAIN CIRCUIT BREAKER, MLO - MAIN LUG ONLY

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Other	0 VA	0.00%	0 VA	Total Conn. Load	0 VA
				Total Est. Demand	0 VA
				Total Conn.	0 A
				Total Est. Demand	0 A

PGA

BRANCH CIRCUIT PANELBOARD

VOLTAGE	3 PHASE	POLES	MAIN AMPS	MAIN TYPE	A.I. RATING	MOUNTING
120/208	4 WIRE	42	225 A	MCB	22,000	SURFACE

POLE NO.	TRIP	P	TYPE	LOAD SERVED	LOAD SERVED	TYPE	P	TRIP	POLE NO.
17					HP-125		3	20	18
19	20	3		HP-123	–		–	–	20
21	–	–		–	–		–	–	22
23	–	–		–	HP-124		3	20	24
25	20	3		HP-126	–		–	–	26
27	–	–		–	–		–	–	28
29	–	–		–					30

PHASE TOTALS: A 0.0 · B 0.0 · C 0.0 — TOTAL: 0.0 kVA

NOTES: 1. 2.

ABBREVIATIONS: G - GFCI BREAKER, A - AFCI BREAKER, L - LOCKOUT BREAKER; S - SHUNT TRIP BREAKER, C - COMBINATION GFCI/AFCI BREAKER; E - ELECTRONIC ADJUSTABLE TRIP BREAKER; MCB - MAIN CIRCUIT BREAKER, MLO - MAIN LUG ONLY

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
Other	0 VA	0.00%	0 VA	Total Conn. Load	0 VA
				Total Est. Demand	0 VA
				Total Conn.	0 A
				Total Est. Demand	0 A

LG

BRANCH CIRCUIT PANELBOARD

VOLTAGE	3 PHASE	POLES	MAIN AMPS	MAIN TYPE	A.I. RATING	MOUNTING
277/480	4 WIRE	42	400 A	MLO	22,000	SURFACE

POLE NO.	TRIP	P	TYPE	LOAD SERVED	LOAD SERVED	TYPE	P	TRIP	POLE NO.
13	80	3		RTU-01	RTU-02		3	80	14
15	–	–		–	–		–	–	16
17	–	–		–	–		–	–	18

PHASE TOTALS: A 0.0 · B 0.0 · C 0.0 — TOTAL: 0.0 kVA

NOTES: 1. 2.

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Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals	
HVAC	0 VA	0.00%	0 VA	Total Conn. Load	0 VA
				Total Est. Demand	0 VA
				Total Conn.	0 A
				Total Est. Demand	0 A

DUFF-ALLEN CENTRAL ELEMENTARY

ELECTRICAL PANEL SCHEDULES

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SUMMIT ARCHITECTS + ENGINEERS

REVISIONS		
NO.	DESCRIPTION	DATE

DATE:	6-7-2024
JOB STATUS:	CD
DRAWN BY:	Author
CHECKED:	Checker
PROJECT NO:	108.003
SHEET:	E601