

DATE:

5/21/2025

AGENDA ITEM (ACTION ITEM):

Consider / Approve the Design Development plans for the White's Tower renovation project (BG 25-351).

APPLICABLE BOARD POLICY:

01.1 Legal Status of the Board; 04.31 Authority to Encumber and Expend Funds; 702 KAR 4:160

HISTORY/BACKGROUND:

The Design Development plans for the White's Tower renovation project reflects the input of the KCSD team, architects from Emboss Design, civil engineers from Bayer Becker, and mechanical engineers from CMTA Engineering. The project is focused on HVAC upgrade/replacement, roof replacement, site circulation improvements, and interior and exterior renovations in the 1964 and 1994 sections of the building. The plans are reflective of the evolutionary design process subsequent to the schematic design that was approved by the Board on May 5, 2025.

FISCAL/BUDGETARY IMPACT:

The fiscal impact will be determined upon issuance of final construction documents and drawings by Emboss Design.

RECOMMENDATION:

Approve the Design Development plans for the White's Tower renovation project (BG 25-351).

CONTACT PERSON:

Matt Rigg, Chief Operations Officer

Principal/Administrator



District Administrator



Superintendent

Use this form to submit your request to the Superintendent for items to be added to the Board Meeting Agenda

Principal – Complete, print, sign and send to your Director. Director – if approved, sign and put in the Superintendent's mailbox

[illegible]

Worksheet: Controls	
Building 2018 Facility Building Code	
BUILDING DEPARTMENT	POB of Kansas County
Chapter 3	(S) Educational
Section 302: Class Location	
Chapter 3	Table 304-2 Allowable Use Units
Section 304: Building Height	Allowable = 75-0' Proposed = No Change, App. 25'-0'
Section 304: Building Number of Stories	Table 304-3 Stories above Grade Floor Allowable = 5 Proposed = No Change, 1 Story
Section 304: Building Area	Table 304-3 Stories above Grade Floor Allowable = 16,000 SF (Futaba 17,000 SF) Proposed = No Change (Futaba 17,000 SF)
Chapter 3	
Section 305: Occupancy Type	Type III - Noncombustible
Fire Resistance Rating Requirements for Building Elements	Table 305 Primary Structural Frame: 01 hours Supporting Walls Interior: 01 hours Supporting Walls Exterior: 01 hours Nonbearing Interior Walls: 01 hours Nonbearing Exterior Walls: 01 hours Floor Construction: 01 hours Roof Construction: 01 hours
Chapter 7	
Section 7	ROOF
Chapter 8	
Section 801: Fire Suppression	Building is equipped with a fully automatic fire suppression system.
Chapter 10	
Table 1001.2: Occupant Load	100% Occupants



Design that *Makes* A Mark.

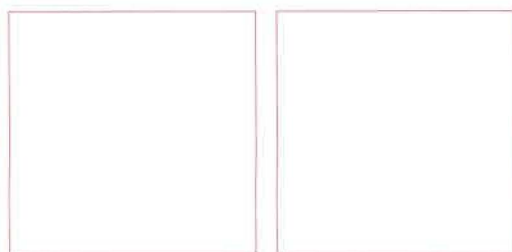
Owner:
KENTON COUNTY BOARD OF EDUCATION
10555 Laton Drive, Ft. Wright, KY 41017
Tel: 858.348.8888

Architect:
EAB/SSS
801 Monmouth Street, Newport, KY 41071
Tel: 858.431.8812

Civil Engineer:
AERBERGMEYER & ASSOCIATES
8111 Chelove Road, Suite 200, Cincinnati, OH 45247
Tel: 513.283.5767

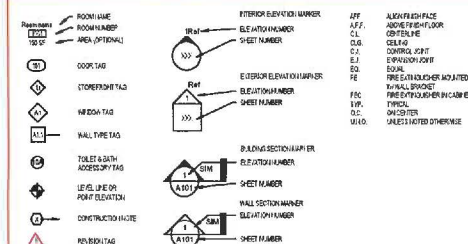
Structural Engineer:
ADVENTAGE [STRUCTURAL] ENGINEERS
1527 Madison Road, Cincinnati, OH 45208
Tel: 513.396.8900

MEP Engineer:
CMTA, INC.
1100 Sycamore Street, Suite 400, Cincinnati, OH 45203
Tel: 513.422.4904



Location Map

2977 Harris Pike
Independence, KY 41051
BG# 25-351

[illegible]

Symbol Legend & Abbreviations



**NOT FOR
CONSTRUCTION**

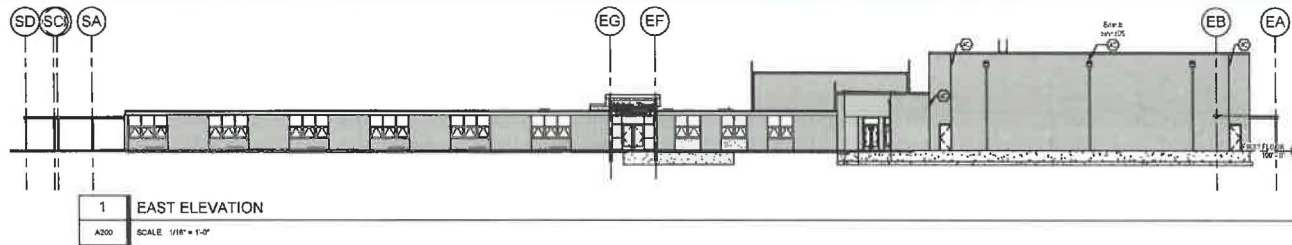
White's Tower Elementary Renovation
Kenton County School District
2977 Harris Pike
Independence, KY 41051
GG# 25-351

NO.	DESCRIPTION	DATE
	DESIGN DEVELOPMENT	5/29/2025

COVER

24-073

G000



1 EAST ELEVATION
A200 SCALE: 1/16" = 1'-0"

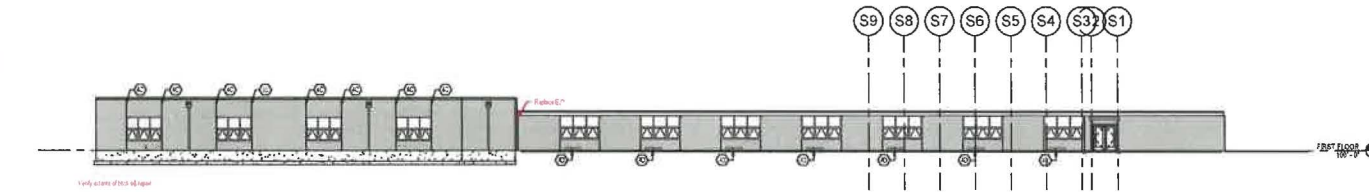
SHEET KEYNOTES

- 40. CUT OPEN (SAPPHIRE JONY): REPLACE BACKER ROOF & CALLS WITH NEW.
- 40. SCOPE TO BE DEFINED AT DEMOLISHED UNITS.

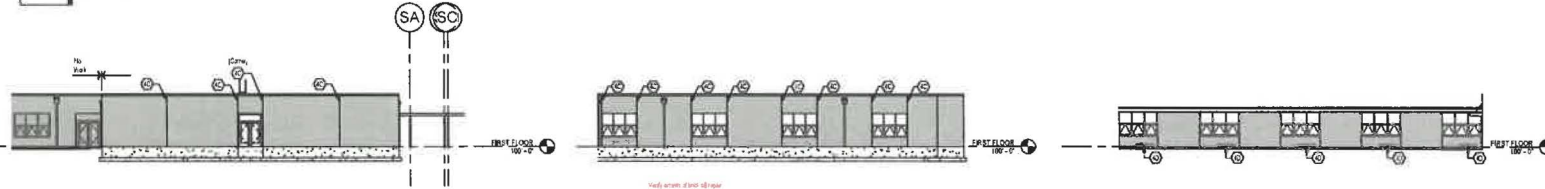


EMB004/001/001/001 508 Main Street, New York, NY 10011
(855)431-6512

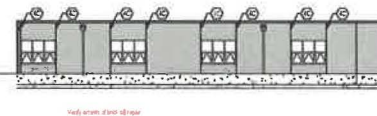
**NOT FOR
CONSTRUCTION**



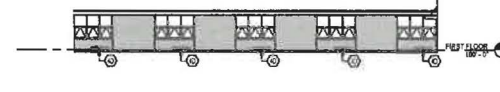
2 SOUTH ELEVATION
A200 SCALE: 1/16" = 1'-0"



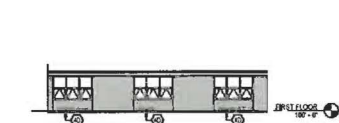
3 WEST ELEVATION - 1994 CLASSROOM WING
A200 SCALE: 1/16" = 1'-0"



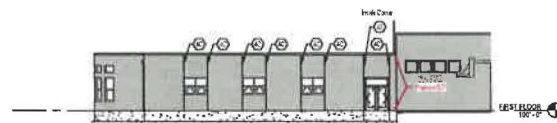
4 NORTH ELEVATION - 1994 CLASSROOM WING
A200 SCALE: 1/16" = 1'-0"



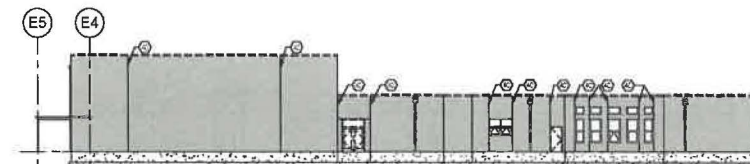
5 NORTH ELEVATION - 1964 CLASSROOMS
A200 SCALE: 1/16" = 1'-0"



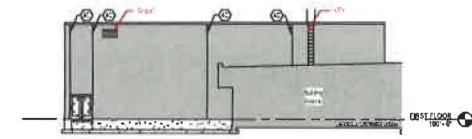
6 WEST ELEVATION - 1964 CLASSROOMS
A200 SCALE: 1/16" = 1'-0"



7 WEST ELEVATION - 1994 MEDIA ADDITION
A200 SCALE: 1/16" = 1'-0"



8 NORTH ELEVATION - 1994 GYM/MEDIA ADDITION
A200 SCALE: 1/16" = 1'-0"



9 WEST ELEVATION - 1994 GYM ADDITION
A200 SCALE: 1/16" = 1'-0"



10 SOUTH ELEVATION - 1994 GYM ADDITION
A200 SCALE: 1/16" = 1'-0"

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EXTERIOR ELEVATIONS

24-073

A200

PLUMBING GENERAL NOTES

- COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CAREWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION WORK. NO SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARE TO THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THE PRECAUTIONS RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- WHERE WORK IS REQUIRED ABOVE EXISTING LAYOUT, PLASTER OR GYPSUM BOARD CEILING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OR REPLACEMENT, IF DAMAGED, OF ALL CEILING OR T-BE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
- ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
- COORDINATE ALL WORK WITH PROJECT PHASES REQUIRING DEMOLITION.
- PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILING, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMERCIAL OR STATE, ETC.).
- CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNDISCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEM AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEER TO REVIEW THE ROUTING.
- IF AREA OF CONSTRUCTION HAS A PORT TRENCH FLOOR SLAB, CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.
- WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONCRETE, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE ALLOWED TO BE BELOW FLOOR THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
- ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
- ALL PIPING IN ROOMS WITH CEILING SHALL BE ABOVE CEILING EXCEPT AS NOTED. LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
- ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER, ETC.).
- WHERE MOUNTING HEDTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL, INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
- ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER, NOISE OR STRUCTURAL DAMAGE INSTALLATIONS SHALL BE SATISFACTORY REPLACES OR REPAIRS AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SATISFACTORY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- DESIGNERS IN SIZE, CAPACITY, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A SELECTION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY, ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILING. IN GENERAL, ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
- WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

PHASING NOTES

- THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER, FIRE ELECTRICAL SERVICE, HVAC SERVICE, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY OPERATIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SCHEDULING WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

PLUMBING DEMOLITION NOTES

- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL CHARGE. FIELD VERIFY EXACT REQUIREMENTS.
- ALL OUTGAS SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTGAS SHALL BE SUBMITTED IN WRITING, MINIMUM OF TWO WEEKS IN ADVANCE.
- ALL WALL AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.
- ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
- HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (Q.O.N) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- COORDINATE DISPOSAL OF ALL PARTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

HAZARDOUS MATERIAL NOTES

- THE CONTRACTOR IS HEREBY ADVISED OF THE POSSIBILITY THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDINGS. ANY WORKER, OCCUPANT, VISITOR, ETC., WHO EXHIBITS ANY SYMPTOM OF WHATEVER CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.
- CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA HAS NO APPLICABLE LIABILITY FOR NOT CARRYING OUT THESE RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.
- IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONTACTS OR RELATES IN ANY PHYSICAL MANNER TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM IMMEDIATELY.
- THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK HEREBY AGREES TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, NEGLIGENCE, OR ANY OTHER SUCH CLAIM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.
- THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

ABBREVIATIONS LIST

AC	ALTERNATING CURRENT
ADJ	ADJUSTABLE
ATF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AJ	AUTHORITY HAVING JURISDICTION
AMP	AMPERE (AMP, AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APD	AIR PRESSURE DROP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CL	CAST IRON
CLG	CEILING
CLR	CLEAR
CO	CLEANOUT
COND	CONDENS (ER, ING, IATION, IATE)
CONT	CONTINU (ED, OUS)
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CV	VALVE FLOW COEFFICIENT
db	DEGIBEL
DB	DRY BULB
DC	DIRECT CURRENT
DD	DUCT SMOKE DETECTOR
DDC	DIRECT DIGITAL CONTROLS
DEG	DEGREE (S)
DIA	DIAMETER (S)
DN	DOWN
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION (TOR)
ENGR	ENGINEER
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EVAP	EVAPORAT (E, ING, ED, OR, ION)
EWI	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EAT	EXTERIOR
FA	FREE AREA
FCO	FLOOR CLEANOUT
FL	FLOOR
FLA	FULL LOAD AMPS
FOR	FLOOR ON TOP
FOT	FLAT ON BOTTOM
FPD	FIRE PROTECTION CONTRACTOR
FFM	FEET PER MINUTE
FFS	FEET PER SECOND
FT	FEET OR FOOT
FUT	FUTURE
FV	FACE VELOCITY
GAG	GAGE/GAUGE
GAL	GALLON (S)

ABBREVIATIONS LIST (CONTINUED)

GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRANDS
H	HUMIDITY
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	H (OR)SEPOWER, -EAT (PUMP)
HR	HOUR (S)
HVAC	HEATING, VENTILATING, & AIR-CONDITIONING
Hz	HERTZ
ID	IDENTIFICATION, -INSIDE DIAMETER, -INSIDE DIMENSION
IN	INCH (ES)
INSUL	INSULAT (ED, -ION)
INT	INTER (IOR, -EVAL)
IPS	IRON PIPE SIZE
KV	KILOVOLT
KWh	KILOWATT HOUR
LBS	POUNDS
LF	LINEAR FEET/FOOT
LRA	LOOKED Rotor AMPS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MHM	BTU PER HOUR (THOUSANDS)
MCA	MINIMUM CIRCUIT AMPS
MFG	MANUFACTURER
MIN	MIN (IMUM, -UTE)
MISC	MISCELLANEOUS
MSCP	MAXIMUM OVERCURRENT PROTECTION (AMPS)
MTO	MOUNTING
N/A	NOT APPLICABLE
NC	NOISE CRITERIA OR NORMALLY CLOSED
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN OR NUMBER
NVS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DI (AMETER, -ENSION)
OCFL	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OCFI	OWNER FURNISHED, CONTRACTOR INSTALLED
OCFI	OWNER FURNISHED, OWNER INSTALLED
OR	OPEN RECEPTACLE
OZ	OUNCE (S)
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE (ELECTRICAL)
PLSD	PLUMBING
PPM	PARTS PER MILLION
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PSIG GAUGE
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
SO	SQUARE
SG FT	SQUARE FEET OR FOOT

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED IN THIS PROJECT.

VALVE SYMBOL LEGEND

	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	AUTOMATIC AIR VENT (AAV)
	MANUAL AIR VENT (MAV)
	MANUAL BALANCING VALVE (BV)
	BALL VALVE
	BUTTERFLY VALVE
	TRIPLE DUTY VALVE (TDV)
	STRAINER
	MANUAL ISOLATION VALVE
	GLOBE VALVE
	OS&Y (GATE) VALVE
	PRESSURE REDUCING VALVE
	AUTO-FLOW CONTROL VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY

PLUMBING SYMBOL LEGEND

	FLEXIBLE PIPE CONNECTION
	FLOW METER (VENTURI)
	PIPING UNION
	FLOW SWITCH
	PRESSURE SWITCH
	TAMPER SWITCH
	THERMOMETER
	PET'S PLUG, TEMPERATURE/PRESSURE PORT

GENERAL SYMBOLS

	TAGGED NOTE DESIGNATOR
	REVISION TRIANGLE
	ROOM TAG
	EQUIPMENT TAG
	POINT OF CONNECTION / CONNECT TO EXISTING
	POINT OF DEMOLITION
	DOMESTIC WATER RISER TAG
	SANITARY WASTE, A VENT RISER TAG
	FIRE SUPPRESSION RISER TAG
	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
	EXISTING PIPING - (XXX) DENOTES SYSTEM
	ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM

PLUMBING PIPING LEGEND

	PIPE ELBOW TURNING UP
	PIPE ELBOW TURNING DOWN
	PIPE TEE, CONNECTION ON TOP
	PIPE TEE, CONNECTION ON BOTTOM
	PIPE CAP
	COMPRESSED AIR
	CONDENSATE DRAIN
	CARBON DIOXIDE
	STEAM PIPING
	DOMESTIC COLD WATER (CW)
	DOMESTIC HOT WATER (HW)
	RECIRCULATED DOMESTIC HOT WATER (RDW)
	HEATING WATER SUPPLY/RETURN
	SANITARY
	SANITARY VENT
	RAIN LEADER
	OVERFLOW RAIN LEADER

ABBREVIATIONS LIST (CONTINUED)

SQ IN	SQUARE INCH OR INCHES
TAB	TESTING AND BALANCING
TBD	TO BE DETERMINED
TE	TOP ELEVATION
TEMP	TEMPERATURE
TPA	TRAP PRIMER ADAPTER
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT (AGE, -S)
VAR	VARIABLE (ABLE, -ES)
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
W	WATT (AGE, -S)
WB	WET BULB
WBT	WET BULB TEMPERATURE
WCO	WALL CLEANOUT
WPD	WATER PRESSURE DROP
WT	WEIGHT
WTH	WITH
W/O	WITHOUT
%	PERCENT
ΔP	DIFFERENTIAL PRESSURE
ΔT	TEMPERATURE DIFFERENCE
±	CENTERLINE



EmbodimentDesign.com 866 444-4444
859-431-8512 New York, NY 10011

NOT FOR
CONSTRUCTION

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Kenton County School District

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NO.	DESCRIPTION	DATE
	DESIGN DEVELOPMENT	5/18/2025

PLUMBING LEGEND

SHEET LIST - PLUMBING

SHEET #	SHEET NAME
P100	PLUMBING LEGEND
P010	UNDERLIE AB - PLUMBING DEMO - AREA A
P020	UNDERLIE AB - PLUMBING NEW WORK - AREA B
P030	LEVEL 1 - PLUMBING DEMO - OVERALL
P040	LEVEL 1 - PLUMBING DEMO - AREA A
P050	LEVEL 1 - PLUMBING DEMO - AREA B
P060	LEVEL 1 - PLUMBING NEW WORK - OVERALL
P070	LEVEL 1 - PLUMBING NEW WORK - AREA A
P080	LEVEL 1 - PLUMBING NEW WORK - AREA B
P400	PLUMBING SCHEDULES

24-073

P100

PRINT DATE

SHEET 1 OF 1 P100

PLUMBING FIXTURE SCHEDULE

TAG	FUNCTION	UNIT DATA	DESCRIPTION	BASIS OF DESIGN		BASIS OF DESIGN SUPPLYLIST		ROUGH-IN SIZES (IN)				SCHEDULE NOTES
				MANUFACTURER	MODEL	MANUFACTURER	MODEL	DCW	DHW	SAN	V	
DR1	WATER BOTTLE STATION		BI LEVEL WATER COOLER WITH BOTTLE FILLER	ELMAX	LF518-RV3SK			12"	12"	1 1/2"	1 1/2"	
HS1	WATER SINK											
LV1	LAVATORY		WALL HUNG LAVATORY	AMERICAN STANDARD	5356-01-01	AMERICAN STANDARD	1340-119	12"	12"	1 1/2"	1 1/2"	
LV2	LAVATORY		WALL HUNG LAVATORY WITH MANUAL WASH BASIN FAUCET	AMERICAN STANDARD	670-01-01	AMERICAN STANDARD	2505-125	12"	12"	1 1/2"	1 1/2"	
LV3	WATER SINK		WALL SINK BASIN	AMERICAN STANDARD	M820-01-01	AMERICAN STANDARD	3700-01	12"	12"	1 1/2"	1 1/2"	
SK1	SINK		STAINLESS STEEL DROP IN SINK	ELMAX	LR60-221855	CHICAGO FAUCET	786-1305-SARGP	12"	12"	1 1/2"	1 1/2"	
LV4	WATER SINK		WALL SINK UNIT	AMERICAN STANDARD	6500-01-01	AMERICAN STANDARD	3462	12"	12"	1 1/2"	1 1/2"	
UR1	URINAL		WALL HUNG URINAL (CILED) HEIGHT	AMERICAN STANDARD	6588-01-01	ELMAX	62455-01	36"	2"	2"	2"	
WC1	WATER CLOSET		WALL HUNG WATER CLOSET	AMERICAN STANDARD	6588-01-01	AMERICAN STANDARD	62455-01	36"	2"	2"	2"	
WC2	WATER CLOSET		WALL HUNG WATER CLOSET (ADA)	AMERICAN STANDARD	6588-01-01	AMERICAN STANDARD	62455-01	36"	2"	2"	2"	
WC3	WATER CLOSET		FLOOR MOUNT WATER CLOSET	AMERICAN STANDARD	6588-01-01	AMERICAN STANDARD	62455-01	36"	2"	2"	2"	
WC4	WATER CLOSET		FLOOR MOUNT WATER CLOSET (ADA)	AMERICAN STANDARD	6588-01-01	AMERICAN STANDARD	62455-01	36"	2"	2"	2"	
WC5	WATER CLOSET		FLOOR MOUNT WATER CLOSET WITH MANUAL FLUSH (ADA)	AMERICAN STANDARD	6588-01-01	AMERICAN STANDARD	62455-01	36"	2"	2"	2"	

ELECTRIC WATER HEATER SCHEDULE

[illegible]

STORAGE TANK SCHEDULE

TAG	FUNCTION	BASIS OF DESIGN		PERFORMANCE DATA			SCHEDULE NOTES
		MANUFACTURER	MODEL	TANK VOLUME (GAL)	MAX ACCEPTANCE PRESSURE (PSIG)	WATER CONNECTION (IN)	

THERMOSTATIC MIXING VALVE SCHEDULE

TAG	FUNCTION	BASIS OF DESIGN		PERFORMANCE DATA					GENERAL DATA		SCHEDULE NOTES
		MANUFACTURER	MODEL	MIN FLOW (GPM)	MAX FLOW (GPM)	FLOW (GPM)	WPD (PSI)	LWT (°F)	INLET SIZE (IN)	OUTLET SIZE (IN)	



EmbossDesign.com 906 Marmouth Street
(659)431-8612 Newport, KY 41071

NOT FOR
CONSTRUCTION

**White's Tower Elementary Renovation
Kenton County School District**

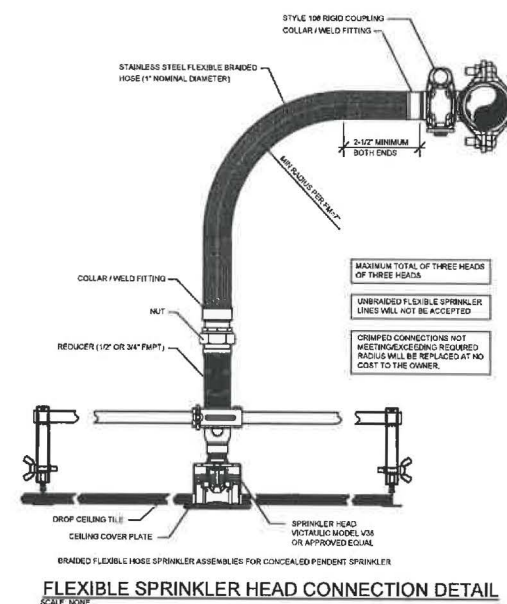
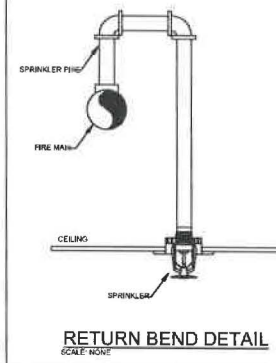
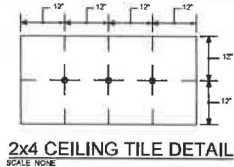
2977 Hamis Pike
Independence, KY 41051
BG# 25-351

NO.	DESCRIPTION	DATE
	DESIGN DEVELOPMENT	5/19/2022

PLUMBING SCHEDULES

24-073

P-400



- FIRE PROTECTION DESIGN NOTES:**
1. THE ENTIRE BUILDING IS TO BE 100% COVERED WITH A WET FIRE PROTECTION SYSTEM DESIGNED IN ACCORDANCE WITH NFPA 13. THE SYSTEM SHOULD BE DESIGNED AS A LIGHT-COMMODITY HAZARD UNLESS NOTED.
 2. THE SUCCESSFUL FIRE PROTECTION CONTRACTOR SHALL OBTAIN AND UTILIZE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR LAYING OUT THE SPRINKLER HEADS. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS SHOWN TO COORDINATE CEILING TYPES AND LOCATIONS. REFER TO THE MECHANICAL AND ELECTRICAL DRAWINGS FOR CEILING DEVICE LOCATIONS. REFER TO SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS.
 3. ALL AREAS SHALL BE SPRINKLED WITH A WET FIRE PROTECTION SYSTEM FED FROM A RETURN BEND ARRANGEMENT. UTILITY QUICK RESPONSE HEADS, BUT DO NOT USE THE DESIGN REDUCTION FOR THE QUICK HEADS WHEN DOING THE CALCULATIONS. USE THE FOLLOWING HEADS IN SPECIFIC AREAS AS INDICATED BELOW. REFER TO SPECIFICATIONS FOR DIFFERENT TYPES OF SPRINKLER HEADS.
 - A. IN AREAS WITH LAY-IN CEILING USE SEMI-RECESSED SPRINKLER HEADS. ALL SPRINKLER HEADS SHALL BE CENTERED IN BOTH DIRECTIONS OF A LAY-IN CEILING TILE.
 - B. IN AREAS WITH HARD CEILING USE FULLY RECESSED SPRINKLER HEADS. PROVIDE COVER-PLATED TO MATCH THE CEILING COLOR.
 - C. IN AREAS WITHOUT CEILING USE UPRIGHT AND/OR WALL MOUNTED SPRINKLER HEADS.
 4. HVAC DUCTWORK MAINS SHALL BE INSTALLED PRIOR TO FIRE PROTECTION PIPING. PROVIDE DRAIN VALVES IN THE FIRE PROTECTION SYSTEM WHERE NECESSARY TO COMPLETELY DRAIN THE SYSTEM. ALL EXISTING PIPING IS TO BE REMOVED AS REQUIRED TO INSTALL NEW MAINS.
 5. INSTALL ALL PIPING AT LEAST 12" ABOVE FINISHED CEILING ELEVATION TO ALLOW FOR SUITABLE ACCESS TO ABOVE CEILING.
 6. RUN NO SPRINKLER MAINS/BRANCH PIPES OVER LIGHT FIXTURES.
 7. ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE. LOW PIPING WILL HAVE TO BE RELOCATED BY THE CONTRACTOR IF IT COULD HAVE BEEN INSTALLED HIGHER. THIS WILL BE UP TO THE DISCRETION OF THE ENGINEER.
 8. PROVIDE ALL REQUIRED DRAIN PIPING TO TEST FLOW SWITCHES. DISCHARGE DRAIN PIPING TO OUTDOORS OR A FLOOR DRAIN.
 9. NO PIPING IS TO BE ROUTED ABOVE ELECTRICAL PANELS, TRANSFORMERS, COMPUTER RACKS, ETC. AS REQUIRED BY THE ELECTRICAL CODE. FIELD VERIFY ALL EXISTING ELECTRICAL LOCATIONS PRIOR TO DESIGNING THE FIRE PROTECTION PLANS.
 10. THE SUCCESSFUL FIRE PROTECTION CONTRACTOR WILL BE REQUIRED TO OBTAIN A NEW FLOW TEST PRIOR TO STARTING CALCULATIONS. SIZE ALL FIRE PROTECTION PIPING IN ACCORDANCE WITH NFPA 13. PIPE SIZING SHALL BE ACCOMPLISHED USING HYDRAULIC CALCULATIONS. SUBMIT HYDRAULIC CALCULATIONS AND SYSTEMS DESIGN FOR REVIEW TO THE FIRE ENGINEER. USE 250 GPM FOR THE HOSE STREAM CALCULATION.
 11. INSTALL SPRINKLER HEADS WITHIN JANITOR'S CLOSETS DIRECTLY ABOVE THE DOOR.

FIRE PROTECTION LEGEND

SEMI-RECESSED SPRINKLER HEAD WITH REMOVABLE ESCUTCHION PLATE	
UPRIGHT TYPE SPRINKLER HEAD	
SIDEWALL TYPE SPRINKLER HEAD	
NEW FIRE PROTECTION PIPING	
FIRE VALVE CABINET	
DOUBLE CHECK VALVE	
NEW OLEAF VALVE	
TAMPER SWITCH	
FLOW SWITCH	
PRESSURE SWITCH	
PIPING RISE UP	
PIPING DOWN	

FLOW TEST RESULTS:

PERFORMED BY NORTHERN KENTUCKY WATER DISTRICT AND SAFETY 1ST FIRE PROTECTION ON MAY, 25 2021 AT APPROXIMATELY 9:00 AM.

STATIC: 64 PSI
RESIDUAL: 58 PSI
FLOW: 1137 GPM

SHEET LIST - FIRE SUPPRESSION

SHEET #	SHEET NAME
FP100	FIRE PROTECTION LEGEND
FP200	FIRE PROTECTION NEWWORK



NOT FOR CONSTRUCTION

White's Tower Elementary Renovation
Kenton County School District
2977 Harris Pike
Independence, KY 41051
BG# 25-351

NO.	DESCRIPTION	DATE
1	DESIGN DEVELOPMENT	5/19/2025

FIRE PROTECTION LEGEND

24-073

FP100

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- [illegible]

INTERNATIONAL PLUMBING CODE (IPC) - STATE EDITION [2021]
INTERNATIONAL MECHANICAL CODE (IMC) - STATE EDITION [2021]
INTERNATIONAL ENERGY CODE (IECC) - STATE EDITION [2021]
INTERNATIONAL GREEK CONSTRUCTION CODE - STATE EDITION [2021]
INTERNATIONAL BUILDING CODE (IBC) - STATE EDITION [2021]
INTERNATIONAL MECHANICAL CODE (IMC) - STATE EDITION [2018]
ADA STANDARDS FOR ACCESSIBLE DESIGN - (2010)
NATIONAL ELECTRICAL CODE (NEPA 70) - STATE EDITION (2020)
LIFE SAFETY CODE (NFPA 191) - STATE EDITION (2018)
FIRE CODE (NFPA 801) - STATE EDITION (2018)
FIRE SPRINKLER CODE (NFPA 13) - STATE EDITION (2019)
FIRE ALARM CODE (NFPA 72) - STATE EDITION [2019]

4. EXERCISE EXTREME CARE IN ORDERING WORK TO AVOID INTERRUPTING ANY EXISTING SERVICES, ESPECIALLY NATURAL GAS AND ELECTRICAL LINES. FOR SAFETY PURPOSES PART PARTICIPANTS ATTENTION TO THIS PRECIGATION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES IS ESSENTIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, CONNECTION AND DISCONNECTIONS TO EXISTING UTILITIES SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND THE CITY OF CHICAGO. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS. THE MOST STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.

5. COORDINATE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES, INCLUDING EXISTING SERVICES. INSTALL ALL NEW SERVICES AND TIE-INS WITHIN THE EXISTING STRUCTURE.

6. BE AWARE OF EXISTING COORDINATED PLUMBING, HVAC, AND ELECTRICAL WORK. FIELD-VERIFY UNCOVERED ITEMS AND REPORT THEM TO THE ARCHITECT IMMEDIATELY. THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT, APPURTENANCES, ETC., THAT CONFLICT WITH THE PROPOSED WORK.

7. WHERE WORKS REQUIRED ABOVE AN EXISTING CEILING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF THE CEILING AND REPAIR OF THE CEILING TO ITS ORIGINAL CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO EXISTING WORK.

8. REPAIR, PATCH, PAINT, MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER. ANY COLOR FINISHES SHALL BE MATCHED TO THE EXISTING FINISHES.

9. USE UL-RATED OR OTHER APPROVED METHODS TO SURVEY EXISTING FLOOR, CEILING FLOOR, SLABS BEFORE MAINTAINING ANY FLOOR FINISHES.

10. WHERE FIRE PROOFING IS TO BE SPRAYED ONTO EXISTING STRUCTURE, LOWER ALL EXISTING COATINGS, PIPING, AND ELECTRICAL LINES.

THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION TEMPORARILY SUPPORT LULLES, SPRINGERS, CEILING ETC. REPLACE BROKEN GLASS WITH GLASS WITH NEW AT AN ADDITIONAL COST TO OWNER. FLOORING SHALL BE REMOVED AND REINSTALLED AS REQUIRED. THE CONTRACTOR SHALL PROVIDE FIRE WITH AREAS WITH OUTGAGES.

ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL PATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION.

ALL EXISTING BUILDING SYSTEMS SHALL BE PROTECTED DURING THE DEMOLITION PHASE.

HEAVY GASED LINES INDICATE ITEMS FOR REMOVAL (LIGHT) AND LIGHT BOLD LINES INDICATE EXISTING ITEMS TO REMAIN.

COORDINATED DISPOSAL OF ALL MATERIALS, DEBRIS, REFRIGERANTS ETC. INDICATED FOR DEMOLITION WITH THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL MATERIALS, DEBRIS, REFRIGERANTS AND WASTE. DISPOSAL UTILITIES ENVIRONMENTALLY FRIENDLY PRACTICES AND MATERIALS WHEREVER POSSIBLE.

ALL OUTGAGES SHALL BE SCHEDULED THROUGH THE FOPS PROJECT REPRESENTATIVE FOR PROPER COORDINATION.

A. THIS PROJECT INTERFERES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL UTILITIES AND SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADVISING ALL AFFECTED PARTIES AND HOSTS OF THE HOSTED AND FULLY AND READILY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION PREMIUMS, ETC. ALL CONTRACT COSTS SHALL BE PAID TO THE CONTRACTOR IN ADVANCE WITH THE PAYING AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

AC	ALTERNATING CURRENT
ADJ	ADJUSTABLE
AF	ABOVE FINISHED FLOOR
AR	ABOVE FINISHED ROOF
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AMJ	AUTHORITY HAVING JURISDICTION
AMP	AMPERE (AMP, AMPS)
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
APD	AIR PRESSURE DROP
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS
ATU	AIR TERMINAL UNIT
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CAN	CONSTANT AIR VOLUME
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CLG	CEILING
CLR	CLEAR
CO	CARBON MONOXIDE
CO ₂	CARBON DIOXIDE
COND	CONDENSE (ER, ING, -ATION, -ATE)
CONT	CONTINUE (-OUS)
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
CV	VALVE FLOW COEFFICIENT
dB	DECIBEL
DBT	DRY BULB
DBT	DRY BULB TEMPERATURE
DC	DIRECT CURRENT
DDT	DUCT SMOKE DETECTOR
DIG	DIRECT DIGITAL CONTROLS
DEG	DEGREE(S)
DN	DIAMETER (-S)
DN	DOWN
DWG	DRAWING
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION (-TOR)
ENGR	ENGINEER
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
ETR	LASTING TO REMAIN
EVAP	EVAPORATE (-ING, -ED, -OR, -ION)
ENTW	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EXT	EXTENSION
FA	FIRST AREA

FD	FIRE DAMPER
FL	FLOOR
FLA	FULL LOAD AMPS
FGB	FLAT ON BOTTOM
FOT	FLAT ON TOP
PPC	FIRE PROTECTION CONTRACTOR
PFM	FEET PER MINUTE
PPS	FEET PER SECOND
F2	FEET OR FOOT
FUT	FUTURE
FV	FACE VELOCITY
GA	GAGE/GAUGE
GAL	GALLON (S)
GC	GENERAL CONTRACTOR
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRABIS
H	HUMIDITY
HD	HEAD
HG	MERCURY
HORIZ	HORIZONTAL
HP	H-CORSEPOWER, -HEAT PUMP)
HR	HOUR (S)
HVAC	HEATING, VENTILATING, & AIR-CONDITIONING
Hz	HERTZ
ID	ID-IDENTIFICATION, -INSIDE DIMENSION, -INSIDE DIM
IN	INCH (ES)
INSUL	INSULAT (ED, -ION)
INT	INTER (-HOR, -SERVAL)
IPS	IRON PIPE SIZE
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET/FOOT
LRA	LOCKED ROTOR AMPS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MCH	BTU PER HOUR (THOUSANDS)
MCB	MINIMUM CIRCUIT AMPS
MFG	MANUFACTURER
MN	MIN (MIN, -UTE)
MISC	MISCELLANEOUS
MSCP	MAXIMUM OVERCURRENT PROTECTION (AMPS)
MTG	MOUNTING
N/A	NOT APPLICABLE
NC	NORE CRITERIA OR NORMALLY CLOSED
NEBB	NATIONAL ENVIRONMENTAL BALANCING BUREAU
NIC	NOT IN CONTRACT

NO	NORMALLY OPEN OR NUMBER
NTE	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER, DIMENSION
OCF	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
OCF	OWNER FURNISHED, CONTRACTOR INSTALLED
OCF	OWNER FURNISHED, OWNER INSTALLED
OR	OPEN RECTANGLE
OZ	OUNCE (S)
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE (ELECTRICAL)
PLBG	PLUMBING
PM	PARTS PER MILLION
PPR	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PB	POUNDS PER SQUARE FOOT
PB	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
RH	RELATIVE HUMIDITY (%)
RLA	RUNNING LOAD AMPS
RPW	REVOLUTIONS PER MINUTE
SD	SMOKE DAMPER
SP	STATIC PRESSURE
SQ	SQUARE
SO FT	SQUARE FEET OR FOOT
SQ INCH	SQUARE INCH OR INCHES
TASB	TESTING AND BALANCING
TBD	TO BE DETERMINED
TE	TOP ELEVATION
TEMP	TEMPERATURE
TST	TOTAL STATIC PRESSURE
TYD	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT (AGE, S)
VAR	VARIABLE (AGE, S)
VAV	VARIABLE AREA VALVE
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VW	VOLT (AGE, S)
WBT	WET BULB
WBT	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP
WT	WEIGHT
W/	WITH
W/O	WITHOUT
%	PERCENT
ΔP	DIFFERENTIAL PRESSURE
ΔT	TEMPERATURE DIFFERENCE
°	CENTIGRADE

NOTES: A AND ABERRATIONS MAY BE LISTED ON THIS PAGE

	TAGGED NONE DESIGNATOR
	REFRIGERATION TRIANGLE
	ROOM TAG
	EQUIPMENT TAG
	POINT OF CONNECTION / CONNECT TO EXISTING
	POINT OF DEMOLITION
HVAC LEGEND	
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
	EXHAUST AIR DIFFUSER
	PLENUM RETURN W/ SOUND ATTENUATING BOX
	SUPPLY/TURNOUT/EXHAUST GRILLE
	SIDEWALL GRILLE
	AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER)
	RECTANGULAR DUCT
	ROUND/SPIRAL DUCT
	FLAT OVAL DUCT
	SUPPLY AIR DUCT
	RETURN AIR DUCT
	EXHAUST AIR DUCT
	OUTSIDE AIR DUCT
	TRANSFER AIR DUCT
	COMBUSTION AIR EXHAUST DUCT
	COMBUSTION AIR INTAKE DUCT
	SA AIR DUCT TURNING UP
	RA AIR DUCT TURNING DOWN
	EA AIR DUCT TURNING DOWN
	BA AIR DUCT TURNING DOWN
	EA AIR DUCT TURNING DOWN
	EXISTING DUCT
	DUCT TO BE DEMOLISHED
	DUCT TO BE ABANDONED IN PLACE
	WETTED ELBOW WITH TURNING VANES
	FLEXIBLE DUCT
	THERMOGAST
	TEMPERATURE SENSOR
	HUMIDITY SENSOR
	CARBON DIOXIDE SENSOR
	TEMPERATURE & CARBON DIOXIDE SENSOR
	MANUAL BALANCING/PRESSURE DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE & SMOKE DAMPER

	PIPE ELBOW TURNING UP
	PIPE ELBOW TURNING DOWN
	PIPE TEE CONNECTION ON TOP
	PIPE TEE CONNECTION ON BOTTOM
	PIPE CAP
	BOILER FEEDWATER
	COMBUSTION AIR INTAKE/EXHAUST
	CHILLED BEAM SUPPLY/RETURN
	CONDENSATE DRAIN
	CHILLED WATER SUPPLY/RETURN
	CLEAN STEAM PIPING
	CONDENSATE WATER SUPPLY/RETURN
	DUAL TEMP. WATER SUPPLY/RETURN
	GEOTHERMAL WATER SUPPLY/RETURN
	HIGH PRESSURE STEAM CONDENSATE
	HIGH PRESSURE STEAM. (H) DENOTES PRESSURE
	HEAT PUMP WATER SUPPLY/RETURN
	HEAT RECOVERY SUPPLY/RETURN PIPING
	HEATING WATER SUPPLY/RETURN
	LOW PRESSURE STEAM CONDENSATE
	LOW PRESSURE STEAM. (L) DENOTES PRESSURE
	MEDIUM PRESSURE STEAM RETURN
	MEDIUM PRESSURE STEAM; (M) DENOTES PRESSURE
	STEAM CONDENSATE PUMPED DISCHARGE
	STEAM VENT PIPING
	PIPING TO BE DEMOLISHED
	EXISTING PIPING
	ABANDONED IN PLACE PIPING
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	AUTOMATIC AIR VENT (AAV)
	MANUAL AIR VENT (MAV)
	MANUAL BALANCING VALVE (BV)
	BALL VALVE
	BUTTERFLY VALVE
	TRIPLE DUTY VALVE (TDV)
	STRAINER
	MANUAL ISOLATION VALVE
	GLOBE VALVE
	OPEN GATE VALVE
	PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
	AUTO-FLOW CONTROL VALVE
	CHECK VALVE
	DOUBLE CHECK VALVE ASSEMBLY
	FLEXIBLE PIPE CONNECTION
	FLOW METER (VENTURI)
	PIPING UNION
	FLOW SWITCH
	PRESSURE SWITCH
	TAMPER SWITCH
	THERMOMETER
	PET'S P.I.G. TEMPERATURE/PRESSURE PORT

[illegible]

MEET #	THEME	SUB-THemes
M100	MECHANICAL, LEGEND	
M101	MECHANICAL, ZONING	
M102	AIR DISTRIBUTION DEMO - OVERALL	
M101A	AIR DISTRIBUTION NEW WORK - AREA A	
M101B	AIR DISTRIBUTION NEW WORK - AREA B	
M102A	AIR DISTRIBUTION NEW WORK - OVERALL	
M102B	AIR DISTRIBUTION NEW WORK - AREA A	
M102C	AIR DISTRIBUTION NEW WORK - AREA B	
M301	HYDRONICS DEMO - OVERALL	
M301A	HYDRONICS DEMO - AREA A	
M301B	HYDRONICS DEMO - AREA B	
M303	HYDRONICS NEW WORK - OVERALL	
M102A	HYDRONICS NEW WORK - AREA A	
M102B	HYDRONICS NEW WORK - AREA B	
M401	MECHANICAL DEMO - ROOF	
M402	MECHANICAL NEW WORK - ROOF	
M403	MECHANICAL, SCHEDULES	
M404	MECHANICAL, LEGEND	

NOT FOR
CONSTRUCTION

White's Tower Elementary Renovation
Kenton County School District
2977 Harris Pike
Independence, KY 41051
BG# 25-351

NO.	DESCRIPTION	DATE
	DESIGN DEVELOPMENT	5/19/2023

MECHANICAL LEGEND

24-073

M100

PRINT DATE 5/16/2015 2:23:32 PM

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REGISTERS, GRILLES, AND DIFFUSERS								
Q MARK	MANUFACTURER	MODEL	MATERIAL & TYPE	CFM RANGE	OVERALL FACE SIZE	PHYSICAL SIZE NECK SIZE	INLET/OUTLET SIZE	REMARKS
E-1	TRUS	GMN AA	EXTRUDED ALUMINUM	0-100	24"X24"	8"Ø		
E-2	TRUS	GMN AA	EXTRUDED ALUMINUM	101-225	24"X24"	8"Ø		
E-3	TRUS	GMN AA	EXTRUDED ALUMINUM	225-360	24"X24"	10"Ø		
E-4	TRUS	GMN AA	EXTRUDED ALUMINUM	381-525	24"X24"	12"Ø		
E-5	TRUS	GMN AA	EXTRUDED ALUMINUM	525-800	24"X24"	14"Ø		
E-6	TRUS	GMN AA	EXTRUDED ALUMINUM	0-100	24"X24"	6"Ø		
E-7	TRUS	GMN AA	EXTRUDED ALUMINUM	101-225	24"X24"	8"Ø		
E-8	TRUS	GMN AA	EXTRUDED ALUMINUM	225-360	24"X24"	10"Ø		
E-9	TRUS	GMN AA	EXTRUDED ALUMINUM	381-525	24"X24"	12"Ø		
E-10	TRUS	GMN AA	EXTRUDED ALUMINUM	525-800	24"X24"	14"Ø		
RD-38	E-1	TRUS	GMN AA	EXTRUDED ALUMINUM	0-100	24"X24"	8"Ø	
	E-2	TRUS	GMN AA	EXTRUDED ALUMINUM	101-225	24"X24"	8"Ø	
	E-3	TRUS	GMN AA	EXTRUDED ALUMINUM	225-360	24"X24"	10"Ø	
	E-4	TRUS	GMN AA	EXTRUDED ALUMINUM	381-525	24"X24"	12"Ø	
	E-5	TRUS	GMN AA	EXTRUDED ALUMINUM	525-800	24"X24"	14"Ø	

BLOWER COIL UNIT SCHEDULE										
SYMBOL	MFG	MODEL	TYPE	SERVICE	MAX. WEIGHT (LBS)	AIRFLOW (CFM)	ESP (IN. W.G.)			
BC-30	TRANS	BCND-30	HORIZONTAL BLOWER COIL	HEATING PERFORMANCE		1800	0.1"			
SYMBOL	HEATING CAP (MBH)	MAX. COIL ROWS	MAX. FIN SPACING (FINS/IN)	FLOW RATE (GPM)	MAX. WPD (FT)	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	
BC-30	55.2			4.2	10					
SYMBOL	TOTAL CAP (MBH)	SENSIBLE CAP (MBH)	MAX. COIL ROWS	MAX. FIN SPACING (FINS/IN)	FLOW RATE (GPM)	MAX. WPD (FT)	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)
BC-30					9.3	15				

VENTILATION HOOD SCHEDULE										
MARK	MANUFACTURER	MODEL	SERVICE	THROAT LENGTH	THROAT WIDTH	TOTAL DRAINAGE IN	MAX. CFM	AIR VELOCITY (FPM)	MAX. AIR PD (W.C.)	BRO SCREEN

UNIT VENTILATOR SCHEDULE													
SYMBOL	INSTANCE	MANUFACTURER	MODEL #	TYPE	CONFIGURATION	ECONOMIZER/REFRIGERANT	WEIGHT (LBS)	DESIGN CFM (SACN)	TYPE	ESP (IN WG)	FAN SPEED	MOTOR HP / TYPE	DRIVE
VUW-125		TRANS	VUW-125	VERTICAL CLASSROOM UNIT VENTILATOR									
UNIT VENTILATOR SCHEDULE (CONT.)													
SYMBOL	INSTANCE	REVERSE CYCLE HEATING CAPACITY				COOLING CAPACITY				DISPOSABLE PRIMARY FILTER			
		TOTAL MBH	BAT/LAT (°F)	EWT/LWT (°F)	HEAT OF EXTRACTION (W.B.H. FULL)	COOL @ 80°F (FULL)	SENSIBLE MBH	EAT (DBWB) (°F)	LAT (DBWB) (°F)	EXTRACT (°F)	WPD (FT)	HEAT OF RE-SECTION (W.B.H.)	RESISTANCE (CLEAN/ DIRTY) (IN W.C.)
VUW-125													

AIR SOURCE HEAT PUMP SCHEDULE													
SYMBOL	MANUFACTURER	MODEL #	TYPE	NOM. CFM	ESP (IN WG)	COMPRESSOR	REFRIGERANT	WEIGHT (LBS)	VOLTAGE	HZ	PHASE	MCA	MCCP
ASHP	DASHN	REBEL	ROOFTOP PACKAGE	4300		VARIABLE	R-32		208 V	60	3		

EXHAUST FAN SCHEDULE										
MARK	SERVICE	TYPE	CFM / ESP (IN)	DRIVE / FAN RPM	FAN HP	ELECTRICAL VOLTS	PH	HZ	REMARKS	
EF-1	TOILET EXHAUST	ROOFTOP DOWNBLAST	300	DIRECT		208 V	1	60		
EF-2	TOILET EXHAUST	ROOFTOP DOWNBLAST	1100	DIRECT		208 V	1	60		
EF-3	TOILET EXHAUST	ROOFTOP DOWNBLAST	950	DIRECT		208 V	1	60		
EF-4	IDF EXHAUST	ROOFTOP DOWNBLAST	150	DIRECT		208 V	1	60		



Enviro-Tech, Inc.
8550 431-4612 300 Main Street
Newport, KY 41071

NOT FOR
CONSTRUCTION

White's Tower Elementary Renovation
Kenton County School District
2977 Harris Pike
Independence, KY 41051
BGR 25-351

NO. DESCRIPTION DATE
DESIGN DEVELOPMENT 5/19/2025

MECHANICAL
SCHEDULES

24-073

M501

PRINT DATE

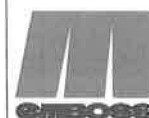
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A. EACH CONTRACTOR, PROPOSER, SUPPLIER

- EA. EACH CONTRACTOR, PROFESSION, SUPPLIER AND/OR MANUFACTURER SHALL REFLECT TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY TO AVOID A DOUBLE ASSIGNMENT OF THE PROJECT. COORDINATE WITH SPECIFICATIONS, PROPER VOLTAGE AND CIRCUIT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER ELECTRICAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROJECT'S ELECTRICAL REQUIREMENTS.
- EB. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.
- EC. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, INCLUDING BUT NOT LIMITED TO: NEC, NFPA 70, NFPA 70B, NFPA 70E, NFPA 70F, NFPA 70G, NFPA 70H, NFPA 70I, NFPA 70J, NFPA 70K, NFPA 70L, NFPA 70M, NFPA 70N, NFPA 70O, NFPA 70P, NFPA 70Q, NFPA 70R, NFPA 70S, NFPA 70T, NFPA 70U, NFPA 70V, NFPA 70W, NFPA 70X, NFPA 70Y, NFPA 70Z, NFPA 70AA, NFPA 70AB, NFPA 70AC, NFPA 70AD, NFPA 70AE, NFPA 70AF, NFPA 70AG, NFPA 70AH, NFPA 70AI, NFPA 70AJ, NFPA 70AK, NFPA 70AL, NFPA 70AM, NFPA 70AN, NFPA 70AO, NFPA 70AP, NFPA 70AQ, NFPA 70AR, NFPA 70AS, NFPA 70AT, NFPA 70AU, NFPA 70AV, NFPA 70AW, NFPA 70AX, NFPA 70AY, NFPA 70AZ, NFPA 70BA, NFPA 70BB, NFPA 70BC, NFPA 70BD, NFPA 70BE, NFPA 70BF, NFPA 70BG, NFPA 70BH, NFPA 70BI, NFPA 70BJ, NFPA 70BK, NFPA 70BL, NFPA 70BM, NFPA 70BN, NFPA 70BO, NFPA 70BP, NFPA 70BQ, NFPA 70BR, NFPA 70BS, NFPA 70BT, NFPA 70BU, NFPA 70BV, NFPA 70BW, NFPA 70BX, NFPA 70BY, NFPA 70BZ, NFPA 70CA, NFPA 70CB, NFPA 70CC, NFPA 70CD, NFPA 70CE, NFPA 70CF, NFPA 70CG, NFPA 70CH, NFPA 70CI, NFPA 70CJ, NFPA 70CK, NFPA 70CL, NFPA 70CM, NFPA 70CN, NFPA 70CO, NFPA 70CP, NFPA 70CQ, NFPA 70CR, NFPA 70CS, NFPA 70CT, NFPA 70CU, NFPA 70CV, NFPA 70CW, NFPA 70CX, NFPA 70CY, NFPA 70CZ, NFPA 70DA, NFPA 70DB, NFPA 70DC, NFPA 70DD, NFPA 70DE, NFPA 70DF, NFPA 70DG, NFPA 70DH, NFPA 70DI, NFPA 70DJ, NFPA 70DK, NFPA 70DL, NFPA 70DM, NFPA 70DN, NFPA 70DO, NFPA 70DP, NFPA 70DQ, NFPA 70DR, NFPA 70DS, NFPA 70DT, NFPA 70DU, NFPA 70DV, NFPA 70DW, NFPA 70DX, NFPA 70DY, NFPA 70DZ, NFPA 70EA, NFPA 70EB, NFPA 70EC, NFPA 70ED, NFPA 70EE, NFPA 70EF, NFPA 70EG, NFPA 70EH, NFPA 70EI, NFPA 70EJ, NFPA 70EK, NFPA 70EL, NFPA 70EM, NFPA 70EN, NFPA 70EO, NFPA 70EP, NFPA 70EQ, NFPA 70ER, NFPA 70ES, NFPA 70ET, NFPA 70EU, NFPA 70EV, NFPA 70EW, NFPA 70EX, NFPA 70EY, NFPA 70EZ, NFPA 70FA, NFPA 70FB, NFPA 70FC, NFPA 70FD, NFPA 70FE, NFPA 70FF, NFPA 70FG, NFPA 70FH, NFPA 70FI, NFPA 70FJ, NFPA 70FK, NFPA 70FL, NFPA 70FM, NFPA 70FN, NFPA 70FO, NFPA 70FP, NFPA 70FQ, NFPA 70FR, NFPA 70FS, 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EmbroidDesign.com 908 Marmouth St
(855) 421-4812 Newry, KY 41071

NOT FOR
CONSTRUCTION

White's Tower Elementary Renovation
Kenton County School District
2977 Harris Pike
Independence, KY 41051
BG# T.B.D.

NO.	DESCRIPTION	QAT
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ELECTRICAL LEGEND
AND GENERAL NOTES

24-073

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