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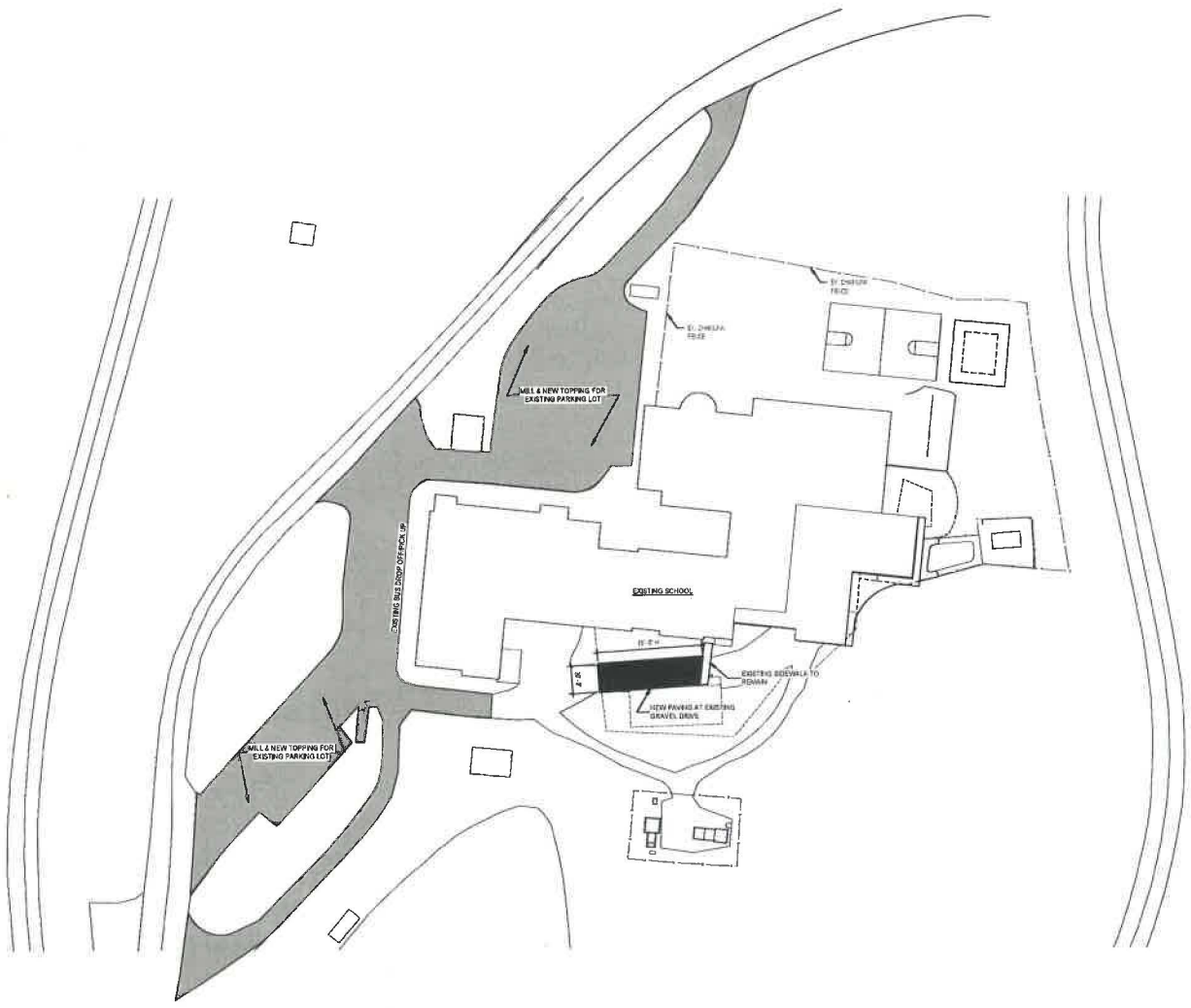
**PINER ELEMENTARY RENOVATION
 KENTON COUNTY SCHOOL DISTRICT
 2845 PINER RIDGE RD, MORNING VIEW, KY
 BG# 25-363**

NO.	DESCRIPTION	DATE
1	DESIGN DEV. SET	06/20/25

ARCHITECTURAL SITE PLAN

25-011

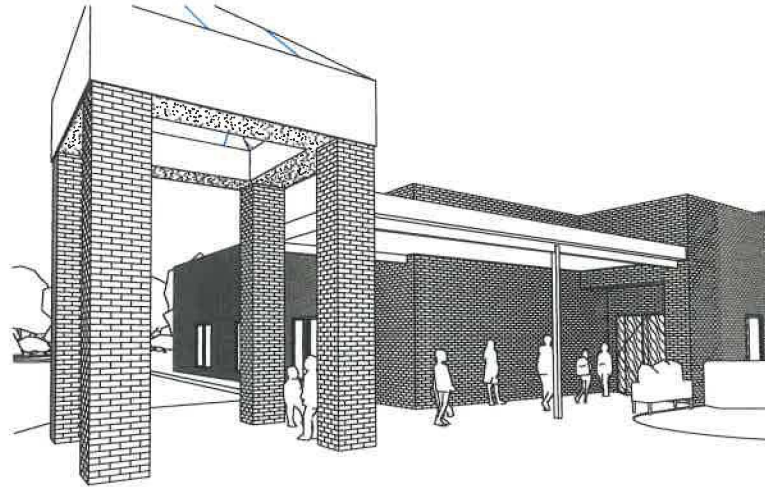
AS100



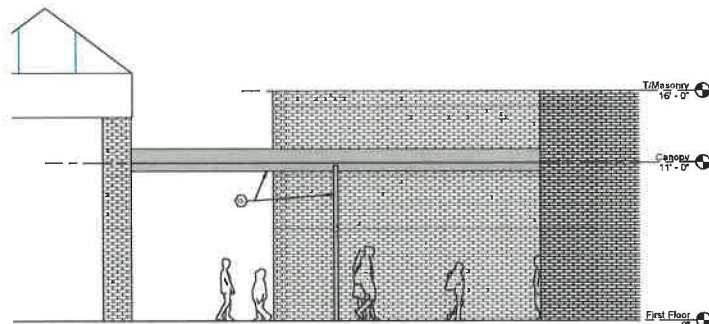
1 ARCHITECTURAL SITE PLAN
 AS100 SCALE: 1" = 40'-0"



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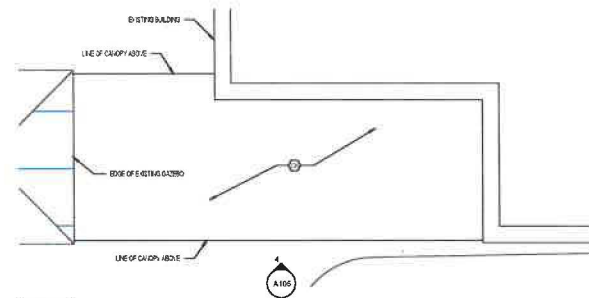


3 View A
 A105 SCALE

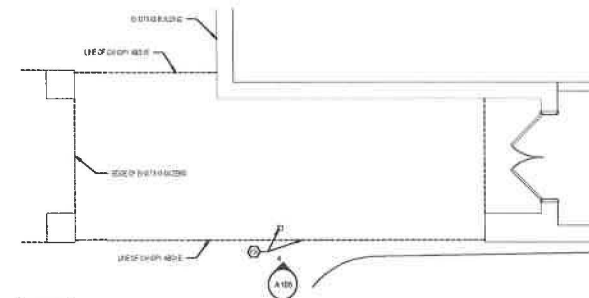


4 CANOPY ELEVATION
 A105 SCALE 1/4" = 1'-0"

SHEET KEYNOTES
 1X PRE-ENGINEERED, PRE-MANUFACTURED POST-SUPPORTED ALUMINUM W/FRY CANOPY BETWEEN EXISTING GAZEBO AND LIBRARY ENTRANCE. (PRE-ENGINEERED PRODUCT LAMPS OVER LAMINATE POST SUPPORTED) WITH FLAT 30/30L #140H SMOOTH FASCIA.



2 CANOPY ROOF PLAN
 A105 SCALE 1/8" = 1'-0"



1 CANOPY PLAN
 A105 SCALE 1/8" = 1'-0"



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**PINER ELEMENTARY RENOVATION
 KENTON COUNTY SCHOOL DISTRICT**
 2845 PINER RIDGE RD, MORNING VIEW, KY
 BG# 25-353

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ENLARGED FLOOR PLANS

25-011

A105

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**PINER ELEMENTARY RENOVATION
 KENTON COUNTY SCHOOL DISTRICT
 2845 PINER RIDGE RD., MORNING VIEW, KY**

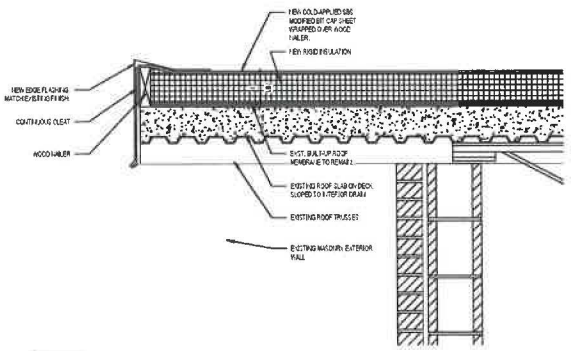
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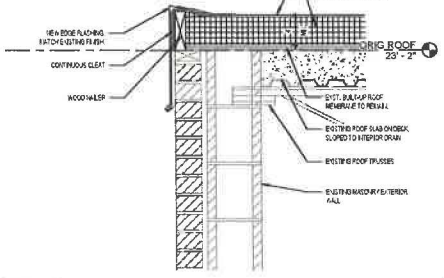
ROOF SECTIONS

25-011

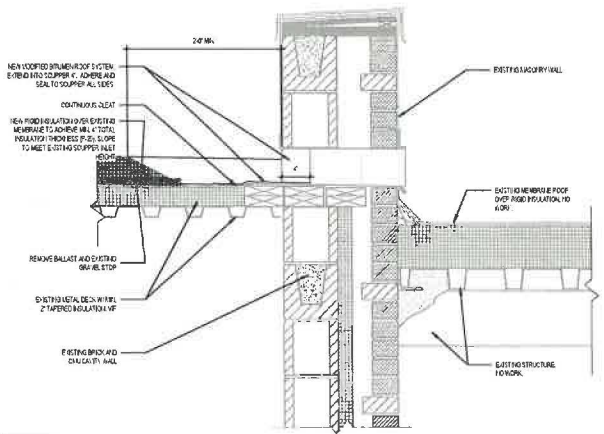
A201



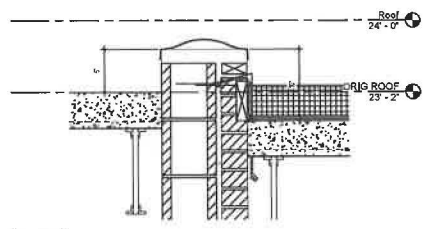
1 ROOF DETAIL
 A201 SCALE 1 1/2" = 1'-0"



4 ROOF DETAIL
 A201 SCALE 1 1/2" = 1'-0"



5 ROOF DETAIL
 A201 SCALE 1 1/2" = 1'-0"



3 ROOF DETAIL
 A201 SCALE 1 1/2" = 1'-0"

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL AND STATE AGENCIES.

PLUMBING FIXTURES SCHEDULE									
MARK	DESCRIPTION	MANUFACTURER	MODEL	FAUCET/VALVE MANUFACTURER	FAUCET/VALVE MODEL	CW	HW	VENT	ACCESSORIES
CSF	BI LEVEL WATER COOLER WITH HOT/COLD FILLER	LEAKIT	LE71-015KSK			1/2"	1/2"	1-1/2"	REFRIGERATED, FILTERED, BI LEVEL, 2.5 GPM FOUNTAIN WITH BOTTLE FILLER, MOUNTED AT CHILD HEIGHT.
FD1	WALL HUNG LAVATORY (ADA)	AMERICAN STANDARD	0366.015	AMERICAN STANDARD	1345.119	1/2"	1/2"	1-1/2"	1-1/2"
LV2	WALL HUNG LAVATORY (ADA)	AMERICAN STANDARD	0366.015	AMERICAN STANDARD	1345.119	1/2"	1/2"	1-1/2"	1-1/2"
PS1	HOP SINK BASIN	FRAM	PS624-04	CHICAGO FAUCETS	830AA	3/4"	3/4"	1-1/2"	PROVIDE HOP HANGER, HOSE/MANET COMBINATION, AND STAINLESS STEEL SUPPLY CANGES.
RD1	ROOF DRAIN								
RD2	ROOF DRAIN								
UR1	WALL HUNG URINAL (FIELD HEIGHT)	AMERICAN STANDARD	6590.001	AMERICAN STANDARD	60455.051	3/4"	2"	1-1/2"	BATTERY OPERATED 0.5 GPM FLUSH VALVE.
UR2	WALL HUNG URINAL (FIELD HEIGHT)	AMERICAN STANDARD	6590.001	AMERICAN STANDARD	60455.051	3/4"	2"	1-1/2"	BATTERY OPERATED 0.5 GPM FLUSH VALVE.
UR3	WALL HUNG URINAL (ADA)	AMERICAN STANDARD	6590.001	AMERICAN STANDARD	60455.051	3/4"	2"	1-1/2"	BATTERY OPERATED 0.5 GPM FLUSH VALVE.
WC1	WALL HUNG WATER CLOSET	AMERICAN STANDARD	2287.101	SLOAN	111 SF949-LS	3/4"	4"	2"	PROVIDE WITH BEHS OPEN FRONT SEAT, 1.6 GPM BATTERY POWER SENSOR FLUSH VALVE.
WC2	WALL HUNG WATER CLOSET (ADA)	AMERICAN STANDARD	2287.101	SLOAN	111 SF949-LS	3/4"	4"	2"	PROVIDE WITH BEHS OPEN FRONT SEAT, 1.6 GPM BATTERY POWER SENSOR FLUSH VALVE.
WC3	WALL HUNG WATER CLOSET (CHILD HEIGHT)	AMERICAN STANDARD	2287.101	SLOAN	111 SF949-LS	3/4"	4"	2"	PROVIDE WITH BEHS OPEN FRONT SEAT, 1.6 GPM BATTERY POWER SENSOR FLUSH VALVE MOUNTED AT CHILD HEIGHT.

HAZARDOUS MATERIAL NOTE:

- THE CONTRACTOR IT IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING. ANY WORKER, OCCUPANT, VISITOR, ETC. WHO ENCOUNTERS ANY MATERIAL OF SUSPECTED 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 FIBERS THEREOF UNLESS THE CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.
- DATA INC. HAS NO INFORMATION ON THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY DATA TO TRY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, DATA NOR ANY AFFILIATE HERETO SHALL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.
- IF THE WORK WHICH IS TO BE PERFORMED INTERFERES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, RESISTOR BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM/HER IMMEDIATELY.
- THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREES TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, NEGLIGENCE, OR ANY OTHER SUCH ITEM AGAINST DATA IT'S PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DATA, 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.

PHASING NOTE:

- THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL THE AIR AND UTILITIES OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE WATER SERVICE, ELECTRICAL SERVICE (WAS SERVICES, 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 AND RELIABLY 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, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

PLUMBING DEMOLITION NOTES:

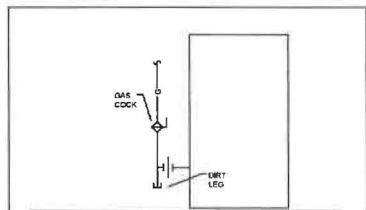
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. RE-LOCATE EXACT REQUIREMENTS.
- ALL OUTGAGES SHALL BE SCHEDULED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTGAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.
- DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE THE WATCH OF AREAS WITH OUTGAGES.
- ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL WETTED 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 (L.O.D.) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

PLUMBING GENERAL NOTES:

- COORDINATE THE LOCATION OF DRAIN, GAS OUTLETS, ETC. WITH ALL CAREWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION WORK. NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY WASTED OR RELOCATED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE PROTECTION OF THEIR WORK AND THE WORK OF OTHERS. DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY REASONS, BATH AND SHOWER TRAYS SHALL BE RELOCATED 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/OR 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 LAY-UP, PLASTER OR GYPSUM BOARD CEILING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPAIR/REPLACE) OF DAMAGED ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS/HER NEW TIE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHED WORK SHALL MATCH ADJACENT SURFACES.
- ALL NEW WORK SHALL BE HUNG FROM STRUCTURE NOT FROM THE WORK OF OTHER TRADES, UNLESS OTHERWISE SPECIFIED. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
- PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR TO OWNER'S STANDARD (PATTERN WALLS, CEILING, ETC.) THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIR SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
- ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THE CONTRACT, (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, STATE, ETC.)
- CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEM AND PLAN AN ALTERNATE ROUTE TO THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
- IF AREA OF CONSTRUCTION HAS A POSITION FLOOR SLAB, CONTRACTOR SHALL USE ULTRA BOUND OR OTHER APPROVED METHODS TO VERIFY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.
- WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CHIMNEYS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FLOOR. THE RISERS OF FIRE PROOFING WITH NO INTERFERENCE.
- ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED LIST LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
- ALL NEW INSTALLATIONS SHALL BE SCHEDULED 2 WEEKS IN ADVANCE AND SHALL COMPLY WITH INTERNAL LINE 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 HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS.
- ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS.
- STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORYLY REPLICATED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SATISFACTORY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
- DIRTYWORK IS NOT PERMITTED. 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 DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
- VALVES OR ANY PLUMBING ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HANGING CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PROVIDED 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 NOT TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.

SYMBOLS & ABBREVIATIONS

A, AIR	MEDICAL AIR		POINT OF CONNECTION
AFR	ABOVE FINISHED FLOOR		LIMIT OF DEMOLITION
APP	ABOVE FINISHED ROOF		PIPE FLOOR TURNING UP/TURNING DOWN
C.I.	CAST IRON		PIPE TEE TURNING UP/TURNING DOWN
CO2	CARBON DIOXIDE		MEDICAL AIR
CW	DOMESTIC COLD WATER		COMPRESSED AIR
DN	DOWN		FORCED MAIN
EV	EVACUATION (WASTE ANESTHETIC GAS DISPOSAL)		FIRE PROTECTION LINE
FHV	FIRE HOSE VALVE WITH CABINET		PROPANE GAS
FFMH	FREEZE PROOF WALL HYDRANT		SANITARY WASTE PIPING TO GREASE TRAP
HB	HOSE BIBB		OXYGEN PIPING
HW	DOMESTIC HOT WATER		OVERFLOW STORM PIPING
IHW	IN ACCORDANCE WITH		PRIMARY STORM PIPING
IE	INSIDE DIMENSION		SANITARY WASTE PIPING
IO	INVERT ELEVATION		STORM SEWER PIPING
LPA	LINE PRESSURE ALARM (MEDICAL GAS AREA ALARM)		VACUUM PIPING
MA	MANHOLE		VENT PIPING
MSH	MULTI-SINGLE ALARM (MEDICAL GAS MASTER ALARM)		EXISTING PIPING (THIN LINE)
NTS	NOT TO SCALE		ABANDONED EXISTING PIPING (THIN LINE)
NC	NOT IN CONTRACT		DOMESTIC COLD WATER PIPING
NO	NORMALLY OPEN		DOMESTIC HOT WATER SUPPLY
ND	NORMALLY CLOSED		DOMESTIC RECIRCULATING HOT WATER
O, OX	OXYGEN		CLEANOUT IN CEILING SPACE
OD	OUTSIDE DIMENSION		FLOOR CLEANOUT
OFCD	OWNER FURNISHED, CONTRACTOR INSTALLED		EXTERIOR CLEANOUT
OFDI	OWNER FURNISHED, OWNER INSTALLED		BALANCING VALVE
CFCD	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED		BALL VALVE
OR	OPEN RECEPTACLE		SAFETY RELIEF VALVE
ORL	OVERFLOW ROOF LEADER		SAFETY RELIEF VALVE
PRL	PRESSURE REDUCING VALVE (STEAM, WATER, OR GAS)		OS&Y (DATE) VALVE
PSI	POUNDS PER SQUARE INCH		PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
RHW	DOMESTIC RECIRCULATING HOT WATER		STRAINER
RL	ROOF LEADER		CHECK VALVE
SCW	SOFT DOMESTIC COLD WATER		DOUBLE CHECK VALVE ASSEMBLY
SR	SANITARY RISER		PIPING UNION
TB	THRUST BLOCK		FLOW SWITCH
TE	TOP ELEVATION		PRESSURE SWITCH
TP	TRAP PRIMER		TAMPER SWITCH
TY	TYPICAL		THERMOCOIL
LION	UNLESS OTHERWISE NOTED		VACUUM BREAKER
V, VAC	VACUUM		LIMITED AREA SPRINKLER HEAD
VTR	VENT THRU ROOF		PETE'S PLUG
			FLOOR DRAIN DESIGNATOR
			ROOF DRAIN DESIGNATOR
			PLUMBING FIXTURE DESIGNATOR
			TAGGED NOTE DESIGNATOR
			REVISION DESIGNATOR
			TEMPERATURE SENSOR
			HOSE BIBB



GAS PIPING DETAIL
NOT TO SCALE



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PINER ELEMENTARY RENOVATION
KENTON COUNTY SCHOOL DISTRICT
2845 PINER RIDGE RD., MORNING VIEW, KY

BGF# 25-353

NO. DESCRIPTION DATE
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PLUMBING LEGEND

25-011

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GENERAL NOTES - MECHANICAL

- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE GENERAL AND SPECIAL CONDITIONS, "GENERAL CONDITIONS - MECHANICAL" OF THE PROJECT SPECIFICATIONS AND TO ALL OTHER CONTRACT DOCUMENTS AS THEY APPLY TO THIS BRANCH OF WORK. ATTENTION IS ALSO DIRECTED TO ALL OTHER SECTIONS OF THE CONTRACT DOCUMENTS WHERE THE MECHANICAL WORK MAY BE REFERRED TO AS PART OF THE WORK SPECIFIED.
- ALL MANUFACTURERS, SUPPLIERS, FABRICATORS, CONTRACTORS, ETC. SUBMITTING PROPOSALS FOR ANY PART OF THE WORK, SERVICES, MATERIALS OR EQUIPMENT TO BE USED OR APPLIED TO THIS PROJECT ARE HEREBY DIRECTED TO FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. IN CASE OF CONFLICTS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION AND FINAL DETERMINATION PRIOR TO THE BID.
- THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, TRANSPORTATION, SUPPLIES, MATERIALS, APPEARANCES AND SERVICES NECESSARY FOR THE SATISFACTORY INSTALLATION OF THE COMPLETE AND OPERATING SYSTEMS INDICATED OR SPECIFIED IN THE CONTRACT DOCUMENTS.
- ANY MATERIALS, LABOR, EQUIPMENT OR SERVICES NOT MENTIONED SPECIFICALLY HEREIN MAY BE NECESSARY TO COMPLETE ANY PART OF THE SYSTEMS IN A SUBSTANTIAL MANNER, IN COMPLIANCE WITH THE REQUIREMENTS STATED. ANY SUCH ITEMS OF INTEREST IN THE PLANS AND SPECIFICATIONS, SHALL BE INCLUDED IN THE BID AS PART OF THE CONTRACT.
- THE ENGINEER DOES NOT INTEND TO DEFINE THE SCOPE OF INDIVIDUAL TRADES, SUBCONTRACTORS, MATERIAL SUPPLIERS AND VENDORS. ANY SHEET NUMBERING OR SPECIFICATION NUMBERING SYSTEM USED WHICH IDENTIFIES DISCIPLINES IS SOLELY FOR THE ENGINEER'S CONVENIENCE AND IS NOT INTENDED TO DEFINE A SUBCONTRACTOR'S SCOPE OF WORK. INFORMATION REGARDING INDIVIDUAL TRADES, SUBCONTRACTORS, MATERIAL SUPPLIERS AND VENDORS MAY BE OBTAINABLE FROM THE ENGINEER AT DIFFERENT LOCATIONS THROUGHOUT THE CONTRACT DOCUMENTS. NO CONSIDERATION WILL BE GIVEN TO REQUESTS FOR CHANGE ORDERS FOR FAILURE TO OBTAIN AND REVIEW THE COMPLETE SET OF CONTRACT DOCUMENTS WHEN PREPARING BIDS, PRICES AND QUOTATIONS. UNLESS STATED OTHERWISE, THE SUBDIVISION AND ASSIGNMENT OF WORK UNDER THE VARIOUS SECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR HOLDING THE PRIME CONTRACT.
- IT IS THE INTENTION OF THE CONTRACT DOCUMENTS TO CALL FOR A COMPLETE AND OPERATIONAL SYSTEM, INCLUDING ALL COMPONENTS, ACCESSORIES, FINISH WORK, ETC. NECESSARY FOR TROUBLE FREE OPERATION, TESTED AND READY FOR OPERATION. ANYTHING THAT MAY BE REQUIRED, IMPLIED OR INFERRED BY THE CONTRACT DOCUMENTS SHALL BE PROVIDED AND INCLUDED AS PART OF THE BID.
- ALL CONTRACTORS AND VENDORS PROVIDING A BID FOR THIS PROJECT SHALL REVIEW THE PLANS AND SPECIFICATIONS AND DETERMINE ANY MODIFICATIONS AND/OR ADJUSTMENTS NECESSARY RELATIVE TO THE PROPOSED EQUIPMENT AND MATERIALS WITH SPECIFIC MANUFACTURER'S INSTALLATION REQUIREMENTS. INCLUDE IN THE BID ANY NECESSARY METHODS, FEASIBILITIES, OPTIONS, ACCESSORIES, ETC. NECESSARY TO INSTALL THE PROPOSED EQUIPMENT AND MATERIALS. REGARDLESS OF WHETHER USED AS BASIS OF DESIGN OR BEING OFFERED AS A SUBSTITUTION, IN A REQUEST FOR QUOTATION, THE SPECIFIC MANUFACTURER'S INSTALLATION REQUIREMENTS, WHETHER SPECIFICALLY DETAILED OR NOT, WITHIN THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLETELY REVIEW THE CONTRACT DOCUMENTS, ANY INTERPRETATION AS TO DESIGN INTENT OR SCOPE SHALL BE PROVIDED BY THE ENGINEER. SHOULD ANY INTERPRETATION BE REQUIRED, THE RESPONSIBILITY SHALL REST WITH THE CONTRACTOR. LESS THAN TEN (10) DAYS PRIOR TO THE SUBMISSION OF THE BID SO THAT THE CONDITION MAY BE CLARIFIED BY ADDENDUM. IN THE EVENT OF ANY CONFLICT, DISCREPANCY, OR INCONSISTENCY OR DISCREPANCY, THE INTERPRETATION OF THE ENGINEER SHALL BE FINAL.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE COORDINATION OF EQUIPMENT LOCATIONS TO VERIFY THAT ALL COMPONENTS WILL FIT IN THE PROPOSED SPACE AND HAVE ADEQUATE CLEARANCES FOR SERVICES. COORDINATE THE LOCATION OF DRAINS, CONNECTIONS, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT COORDINATED SHALL BE REMOVED AND PROPERLY REINSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
- EQUIPMENT AND SIMILAR SUBSTITUTIONS OR DEVIATIONS SHALL COMPLY WITH "GENERAL PROVISIONS - MECHANICAL, PART 6." ANY VENDOR WISHING TO OBTAIN AN EQUIPMENT SUBSTITUTION SHALL REQUEST A CLARIFICATION NOT LESS THAN TEN (10) DAYS PRIOR TO THE SUBMISSION OF THE PROPOSAL, SO THAT IT MAY BE CONSIDERED AND POTENTIALLY INCLUDED BY ADDENDUM. REQUESTS MADE AFTER THIS PERIOD WILL BE REJECTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE REGARDLESS IF CONTRACTOR IS SIGNATORY OF CODES, RULES, REGULATIONS, LAWS, ETC. THE CONTRACTOR SHALL ALSO BE VERSED IN ALL CODES, RULES, REGULATIONS, LAWS, ETC. PERTINENT TO THEIR PART OF THE WORK PRIOR TO COMPLETION OF THE PROJECT.
- ALL WARRANTIES SHALL BEGIN STARTING AT THE PROJECT'S SUBSTANTIAL COMPLETION DATE. ALL EQUIPMENT, MATERIAL AND LABOR WARRANTIES SHALL BE FURNISHED BY THE EQUIPMENT SUPPLIER/RENDERER.
- WHenever work penetrates roofing, IT SHALL BE DONE IN A MANNER THAT WILL NOT DENY OR VOID THE ROOFING GUARANTEE OR WARRANTY IN ANY WAY. COORDINATE ALL SUCH WORK WITH THE ROOFING INSTALLER.
- DUCTWORK, PIPING AND EQUIPMENT SHALL BE KEPT CLEAN AT ALL TIMES. DUCTWORK STORED ON THE JOB SITE SHALL BE PLACED A MINIMUM OF 4" ABOVE THE FLOOR AND BE COMPLETELY COVERED IN PLASTIC. INSTALL DUCTWORK SHALL BE PROTECTED WITH PLASTIC. DO NOT INSTALL THE DUCTWORK OR INSULATION (PIPE OR DUCT) IF THE BUILDING IS NOT "DRIED-IN," IF THIS IS REQUIRED, THE ENTIRE LENGTH SHALL BE COVERED IN PLASTIC TO PROTECT IT. THE OWNERS/ENGINEER SHALL BE RESPONSIBLE THAT THESE PROVISIONS ARE FOLLOWED. IF DEEMED UNACCEPTABLE, THE CONTRACTOR SHALL BE REQUIRED TO CLEAN THE DUCT SYSTEM UTILIZING A NOAA CERTIFIED CONTRACTOR.
- THE FURNISHMENT SYSTEMS, WHEN INSTALLED, MAY BE USED FOR TEMPORARY SERVICES WITH THE CONSENT OF THE ENGINEER AND IN STRICT ACCORDANCE WITH "GENERAL PROVISIONS - MECHANICAL - TEMPORARY USE OF EQUIPMENT."
- THE CONTRACTOR AND THEIR SUBCONTRACTORS SHALL INCLUDE IN THE BID TO PROVIDE EQUIPMENT AND CONTROLS STARTUP AND VERIFICATION FOR ALL MECHANICAL SYSTEMS SPECIFIED FOR THIS PROJECT AND IN STRICT ACCORDANCE WITH "GENERAL PROVISIONS - MECHANICAL - EQUIPMENT/CONTROLS STARTUP & VERIFICATION."
- THE CONTRACTOR SHALL DETERMINE FROM THE CONTRACT DOCUMENTS, THE DATE OF COMPLETION FOR THE PROJECT AND INSURE THAT EQUIPMENT DELIVERY SCHEDULES CAN BE MET SO AS TO ALLOW THIS COMPLETION TO BE MET.
- THROUGH COORDINATION WITH OTHER CONTRACTORS, VENDORS, AND SUPPLIERS ASSOCIATED WITH THIS PROJECT, THIS CONTRACTOR SHALL INSURE, FROM FUNCTIONAL, TESTED, INSPECTED AND APPROVED SYSTEMS, CLAIMS FOR ADDITIONAL COST OR CHANGE ORDERS WILL BE REJECTED.
- PRIOR TO ORDERING ANY MATERIALS OR ROUGHING OF ANY KIND, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FULL COORDINATION OF ALL ELECTRICAL REQUIREMENTS (E.g. VOLTAGE, PHASE, CIRCUIT BREAKER, WIRE SIZES, ETC.) WITH THE ELECTRICAL CONTRACTOR. THERE WILL BE NO CHANGE IN THE CONTRACT AMOUNT FOR ANY DISCREPANCIES.
- ALL OFFSETS, TURNS, FITTINGS, FROM DETAIL, ETC., MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.
- DO NOT SCALE FROM DRAWINGS, PRINTING DISTORTIONS SCALE. WORK SHALL BE Laid OUT FROM CONTRACTOR GENERATED DIMENSIONED DRAWINGS.
- THE CONTRACTOR SHALL ENGINEER PROPER COORDINATION BETWEEN ALL TRADES SUCH THAT CONDUITS, PIPING, DUCTWORK, ETC. DOES NOT BLOCK ACCESS TO VALVES, EQUIPMENT, DUCT ACCESS DOORS, ETC. ITEMS THAT HAVE BEEN INSTALLED WHERE ACCESS IS COMPROMISED SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
- THESE DRAWINGS ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE, HOWEVER LOCATIONS AND SIZES VARY FROM DIFFERENT SOURCES AND ARE SUBJECT TO VARIATION. THE CONTRACTOR SHALL ASSUME SOME DEVIATIONS AND INCLUDE OFFSETS, ADDITIONAL OFFSETS, ETC. AT THE TIME OF BID.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THEIR WORK. ALL CUTTING AND PATCHING SHALL MATCH ADJACENT SURFACES AND PERFORMED BY SKILLED WORKERS OF THE TRADE. REFER TO SPECIFICATION SECTION ON CUTTING, PATCHING, REPAIRING, ETC. AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FITTINGS SHALL BE AWAY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT MOUNTS FROM OTHER TRADES' EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADES, IN WRITING.
- PRIOR TO PURCHASE OR FABRICATION OF PIPING, THE CONTRACTOR SHALL COORDINATE INSTALLATION WITH ACTUAL CONDITIONS AND INSTALL ACCORDINGLY.
- VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM SHALL NOT BE LOCATED ABOVE A HANGING CEILING, IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED AT NO ADDITIONAL COST UNDER THE ITEM WHETHER SHOWN OR NOT ON THE PLANS TO ALLOW ACCESS AND ADJUSTMENT.
- THE CONTRACTOR SHALL VISIT THE SITE FOR EXACT LOCATIONS OF ALL WALL AND CEILING DEVICES. THIS SHALL INCLUDE PLUMBING FIXTURES, CEILING GRILLES AND DIFFUSERS, ETC.
- CONTRACTOR SHALL CLEAN UP REACTION DEBRIS AT ALL TIMES DURING CONSTRUCTION.

GENERAL NOTES - DEMOLITION

- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLAN FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION TEMPORARILY SUPPORT EXISTING CEILING, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER, RELATED VERIFY EPC REQUIREMENTS.
- ALL OUTGAS SHALL BE SO-VENTED THROUGH THE PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN EXCHANGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.
- DURING SPRINKLER SYSTEM OUTGAS THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTGAS.
- ALL WALLS 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. (DASH) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- COORDINATE DISPOSAL OF ALL FEATURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.

ABBREVIATIONS

ADJ	ADJUSTABLE
AFR	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AFD	AIR PRESSURE DROP
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNIT
CAV	CONSTANT AIR VOLUME
CFM	CUBIC FEET PER MINUTE
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROLS
DN	DOWN
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ESP	EXTERNAL STATIC PRESSURE
EST	EXISTING TO REMAIN
DWT	ENTERING WATER TEMPERATURE
FA	FREE AREA
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FPIC	FIRE PROTECTION CONTRACTOR
FSM	FEET PER MINUTE
FSF	FEET PER SECOND
FSD	FIRE SMOKE DAMPER
GAL	GALLON (-S)
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GR	GRAINS
HD	HEAD
HP	H (CORNERPANEL, HEAT PUMP)
ID	I (IDENTIFICATION, INSIDE DIAMETER, INSIDE DIMENSION)
kW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MEN	BTU PER HOUR [THOUSANDS]
MFC	MINIMUM FLOW CUT OFF APPS
MPA	MANUFACTURER
MOOP	HIGHLY OVERCURRENT PROTECTION [AMPS]
NC	NOISE CRITERIA OR NORMALLY CLOSED

ABBREVIATIONS (CONTINUED)

NO	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE
OD	OUTSIDE DIA. (AMETER, AMENSION)
OFIC	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOW	OWNER FURNISHED, OWNER INSTALLED
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE [ELECTRICAL]
PPM	PARTS PER MILLION
PSI	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
RH	RELATIVE HUMIDITY [%]
RM	REVOLUTIONS PER MINUTE
SD	SHOCK DAMPER
SP	STATIC PRESSURE
SQ FT	SQUARE FEET OR FOOT
TSP	TOTAL STATIC PRESSURE
TRP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
V	VOLT (AGE, -S)
VAR	VARIABLE (ANGLE, -YES)
VAR	VARIABLE AIR VOLUME
VEL	VELOCITY
VRD	VARIABLE FREQUENCY DRIVE
W	WATT (AGE, -S)
WB	WET BULB
WD	WATER PRESSURE DROP
WP	CARBON DIOXIDE SENSOR
ΔT	TEMPERATURE DIFFERENCE
L	CENTERTINE

GENERAL SYMBOLS

⊙	TAGGED NOTE DESIGNATOR
△	REVISION TRIANGLE
■	ROOM TAG
□	EQUIPMENT TAG
◆	POINT OF CONNECTION / CONNECT TO EXISTING
◇	POINT OF DEMOLITION

HVAC LEGEND

⊗	SUPPLY AIR DIFFUSER
⊠	RETURN AIR GRILLE
⊞	EXHAUST AIR DIFFUSER
⊡	TRANSFER AIR GRILLE W/ SOUND ATTENUATING BOOT
⊢	SIDEWALL DIFFUSER/GRILLE
⊞	AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER, DOOR)
⊞	RECTANGULAR DUCT
⊞	ROUND/SPIRAL DUCT
⊞	FLAT OWAL 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
⊞	SA AIR DUCT TURNING DOWN
⊞	RA AIR DUCT TURNING UP
⊞	RA AIR DUCT TURNING DOWN
⊞	EA AIR DUCT TURNING UP
⊞	EA AIR DUCT TURNING DOWN
⊞	EXISTING DUCT - (XXX) DENOTES SYSTEM
⊞	DUCT TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
⊞	DUCT TO BE ABANDONED IN PLACE - (XXX) DENOTES SYSTEM
⊞	MITERED ELBOW WITH TURNING VANES
⊞	FLEXIBLE DUCT
⊞	THERMOSTAT
⊞	TEMPERATURE SENSOR
⊞	HUMIDITY SENSOR
⊞	CARBON DIOXIDE SENSOR
⊞	TEMPERATURE & CARBON DIOXIDE SENSOR
⊞	MANUAL BALANCING VOLUME DAMPER
⊞	MOTORIZED DAMPER

MECHANICAL PIPING LEGEND

—○—	PIPE ELBOW TURNING UP
—○—	PIPE ELBOW TURNING DOWN
—○—	PIPE TEE, CONNECTION ON TOP
—○—	PIPE TEE, CONNECTION ON BOTTOM
—	PIPE CAP
—○—	CONDENSATE DRAIN
—CWSR—	CHILLED WATER SUPPLY/RETURN
—CWR—	CONDENSER WATER SUPPLY/RETURN
—DTSR—	DUAL TEMP. WATER SUPPLY/RETURN
—GWR—	GEOTHERMAL WATER SUPPLY/RETURN
—HPC—	HIGH PRESSURE STEAM CONDENSATE
—HPSR—	HIGH PRESSURE STEAM, (H) DENOTES PRESSURE
—HWR—	HEAT PUMP WATER SUPPLY/RETURN
—HRSR—	HEAT RECOVERY SUPPLY/RETURN PIPING
—HMSR—	HEATING WATER SUPPLY/RETURN
—LPC—	LOW PRESSURE STEAM CONDENSATE
—LPSR—	LOW PRESSURE STEAM, (L) DENOTES PRESSURE
—MPC—	MEDIUM PRESSURE STEAM RETURN
—MPSR—	MEDIUM PRESSURE STEAM, (M) DENOTES PRESSURE
—STR—	STEAM VENT PIPING
---(XXX)---	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
---(XXX)---	EXISTING PIPING - (XXX) DENOTES SYSTEM

PHASING NOTES

- THIS PROJECT INTERFERES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIES AND INTERFERENCES OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC. WILL BE APPLIED AND RELOCATED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING EXISTING OR MOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELIEF PIPING, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

HAZARDOUS MATERIALS NOTES

- THE CONTRACTOR IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING. ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF UNDOUBTED OR SUSPECTED ASBESTOS, FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES INTO OR IN CONTACT WITH ANY SUCH MATERIAL OR FIBERS 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 THEREIN. NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE OR EMPLOYEE WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.
- IF THE WORK WHICH IS TO BE PERFORMED INTERFERES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR 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/HER IMMEDIATELY.
- THE CONTRACTOR BY ACCEPTANCE OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREES TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, STRICT LIABILITY, OR ANY OTHER SUCH ITEM 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 SUBCONTRACTOR, SUPPLIER OR ANY OTHER THIRD PARTY.
- THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

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



NOT FOR CONSTRUCTION

**PINER ELEMENTARY RENOVATION
KENTON COUNTY SCHOOL DISTRICT
2845 PINER RIDGE RD, MORNING VIEW, KY
BG# 25-953**

NO.	DESCRIPTION	DATE
	DESIGN DEV SET	06/20/25

MECHANICAL LEGEND

25-101

M000

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GENERAL REQUIREMENTS:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE APPROPRIATE QUANTITIES, FIELD MEASUREMENTS, DIMENSIONAL LOCATION, INSTALLATION, ANCHORAGE, AND COORDINATION WITH OTHER TRADES. THEY SHALL ALSO IDENTIFY AND RESOLVE DEVIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENT AND ALERT DESIGNER TO ERRORS OR OMISSIONS.
- CONTRACTOR SHALL UTILIZE THE DRAWINGS ALONG WITH THE SPECIFICATIONS TO DETERMINE THE INTENT AND REQUIREMENT OF THE PROJECT. WORK DETAILED ON THE DRAWINGS BUT NOT ENUMERATED IN THE SPECIFICATIONS, AND WORK DESCRIBED IN THE SPECIFICATIONS BUT NOT DETAILED ON THE DRAWINGS SHALL BE INTERPRETED AS THOUGH WORK WERE FULLY DESCRIBED IN BOTH DOCUMENT SETS. THE HIGHER QUALITY, FINER QUALITY, MORE LABOR INTENSIVE AND OVERALL MORE STRINGENT AND MORE COSTLY REQUIREMENT SHALL APPLY UNLESS OTHERWISE NOTED PRIOR TO BID.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS SHOWN ON THE DRAWINGS AND DESCRIBE IN THE SPECIFICATIONS. ANY DISCREPANCY DISCOVERED SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER PRIOR TO THE COMMENCEMENT OF ANY WORK AFFECTED BY ANY SUCH DISCREPANCY. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH, OR CAUSED BY THEIR FAILURE TO COMPLY WITH THIS REQUIREMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOB CLEANLINESS. PROJECT AREAS SHALL BE THOROUGHLY CLEANED AND ANY WASTE REMOVED AT THE END OF EACH WORK DAY. OWNER'S FACILITIES OR TRASH COLLECTION SHALL NOT BE USED FOR WASTE DISPOSAL.
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL SURFACES AND FINISHES IN THE INTERIOR OR EXTERIOR OF THE FACILITY. DAMAGED SURFACES OR FINISHES RESULTING FROM THE PERFORMANCE OF THE WORK OR NEGLIGENCE SHALL BE REPAIRED AT NO COST TO THE OWNER AND BE MADE TO MATCH THE EXISTING FINISHES OR SURFACES TO THE SATISFACTION OF THE OWNER.
- FOR MULTIPHASE PROJECTS, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITY SERVICES AND BUILDING SYSTEMS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE AS NECESSARY TO ALLOW FOR OPERATION ACCEPTABLE TO THE OWNER DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE TEMPORARY WORK AS NECESSARY.
- PROVIDE DUST PROTECTION FOR ANY EXISTING EQUIPMENT AFFECTED BY THE CONTRACTOR'S WORK AND FOR ANY NEW WORK INSTALLED WHICH MAY BE AFFECTED BY CONSTRUCTION DUST.

GENERAL ROUGH-IN AND CABLING PATHWAY REQUIREMENTS:

- PROVIDE PATHWAYS FOR ALL TELECOMMUNICATIONS, AUDIO/VIDEO, SAFETY AND SECURITY SYSTEMS CABLING. REFER TO SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.
- ROUGH-IN PATHWAYS SHALL BE REVIEWED AND COORDINATED PRIOR TO INSTALLATION.
- WHERE CONDUITS ARE SPECIFIED "IN-CEILING" (TO ABOVE ACCESSIBLE CEILING), CONDUITS SHALL BE STUBBED INTO AN ACCESSIBLE CEILING CAVITY.
- WHERE CONDUITS ARE SPECIFIED "IN-WALL" (TO ABOVE ACCESSIBLE CEILING), CONDUITS SHALL BE RUN CONTINUOUSLY AND STUBBED OUT INTO AN ACCESSIBLE CEILING CAVITY WITHIN THE NEAREST CORRIDOR FEATURING AN ACCESSIBLE CEILING CAVITY.
- CONDUIT INSTALLER SHALL INSTALL FULL STRIKER IN ALL CONDUITS IMMEDIATELY AFTER INSTALLATION.
- CONDUIT INSTALLER SHALL LABEL CONDUITS PER THE DEVICES WHICH THEY ARE INTENDED TO SERVE WITH PERMANENT MARKER AT CONDUIT TERMINATION.
- WHERE CONDUIT IS SHOWN AND/OR SPECIFIED, PROVIDE FULL BODIES SHOWN ON THE DRAWINGS PLUS ADDITIONAL FULL BODIES FOR EVERY 90 DEGREE OF CONDUIT BEND AND 100 FEET OF CONDUIT.
- PROVIDE COVER PLATES FOR JUNCTION AND HULL BODIES. LOCATE AND MATCH PLATES TO MATCH SURROUNDING PLATES.
- WHERE A MOUNTING HEIGHT MEASUREMENT IS APPLIED TO A RACK/DISH, THE MEASUREMENT SHALL BE REFERENCED TO THE CENTER OF THE ROUGH-IN DEVICE.
- PATHWAYS SHALL BE INSTALLED IN A CONCEALED MANNER. EXPOSED CONDUIT SHALL NOT BE PERMITTED IN FINISHED AREAS.
- PROVIDE CODE COMPLIANT FIRE STOPPING FOR PATHWAYS THROUGH FIRE-RATED WALLS, FLOORS AND CEILING.
- PROVIDE CONDUITS WITH NYLON END-BUSHINGS, NOT ALL BUSHINGS AT THE END OF EACH CONDUIT AND EACH ADDITIONAL LOCATION WHERE CABLES COULD BE DAMAGED WHEN PULLING THEM THROUGH THE CONDUIT.
- DEVICES TO BE INSTALLED AT COUNTER HEIGHT, CASEWORK OR FURNITURE SHALL BE CLOSELY COORDINATED WITH THE FIELD WITH ARCHITECT, CASEWORK AND FURNITURE VENDORS PRIOR TO ROUGH-IN.
- WHERE FLOORBORES, POWER POLES AND OTHER DUAL SERVICE PATHWAYS ARE INDICATED ON THE DRAWINGS, PATHWAY DEVICES SHALL BE PROVIDED BY THE DESIGNER CONTRACTOR. SEE ELECTRIC DRAWINGS FOR REQUIREMENTS AND ADDITIONAL INFORMATION.
- MANY COMMUNICATIONS DEVICES ARE INTENDED TO HAVE ADJACENT POWER OR OTHER RECEPTACLES (MULTI-SERVICE) TO SERVE THE SAME EQUIPMENT. COORDINATE THE LOCATION OF SEPARATE DEVICES SO THAT THEY ARE LOCATED ADJACENT AND AT THE SAME ELEVATION. FACE PLATES SHALL BE COORDINATED TO THE SAME TYPE AND COLOR.
- LADDER RACK AND OTHER COMMUNICATION TECHNIQUE CABLING PATHWAYS SHOWN ON THE ENLARGED FLOOR PLANS SHALL BE PROVIDED AS INDICATED. ADDITIONAL PRODUCTS NECESSARY FOR PROFESSIONAL WIRE MANAGEMENT WITHIN THE MAIN EQUIPMENT ROOM (M-E-R) SHALL BE ALSO PROVIDED AS NECESSARY.
- WHERE CABLE TRAY IS SPECIFIED ON THE FLOOR PLANS IT SHALL BE PROVIDED AS INDICATED AND SIZED APPROPRIATELY FOR THE CABLING QUANTITY AND SIZE TO BE CONVEYED. PROVIDE ALL MOUNTING HARDWARE AND TRANSDUCERS REQUIRED TO SECURE TO THE WALLS AND/OR CEILING. COORDINATE WITH ALL TRADES TO ENSURE APPROPRIATE SPACE HAS BEEN ALLOCATED FOR THE CABLE TRAY DIMENSIONS.
- PROVIDE A MINIMUM OF ONE (1) INCH DIAMETER THROUGH-THE-WALL CONDUIT TUBES FOR USE AS LOW VOLTAGE CABLE PATHWAYS INTO EACH SPACE CONTAINING LOW-VOLTAGE DEVICES. ROUTE CONDUITS FROM ABOVE ACCESSIBLE CEILING TO THE NEAREST HALLWAY/CORRIDOR FEATURING AN ACCESSIBLE CEILING CAVITY.
- IN ALL CASES WHERE CABLES DO NOT INSTALL IN CONDUIT, IT SHALL BE SUPPORTED BY CABLE TRAY, HOOKS OR OTHER APPROVED PATHWAY SUPPORTS. IT SHALL NEVER BE SUPPORTED BY BUILDING STRUCTURE OR SUSPENDED CEILING INFRASTRUCTURE.
- WHERE CABLES IS NOT INSTALLED WITHIN CONDUIT, IT SHALL BE INSTALLED IN A CONCEALED MANNER WHEN TRAVELING THROUGH OPEN CEILING TYPE SPACES.
- MAJOR CONDUIT PATHWAYS 3" DIAMETER AND GREATER HAVE BEEN SPECIFIED ON THE FLOOR PLANS AND SECTION DETAILS. HOWEVER, ADDITIONAL CONDUIT PATHWAYS AND SLEEVES SHALL BE REQUIRED FOR CABLING TO PASS THROUGH WALLS, FLOORS, EXPOSED OPEN CEILING TYPE SPACES AND TO COMPLETE PROPER INSTALLATION. FIELD COORDINATE AND PROVIDE AS REQUIRED.

GENERAL CABLING REQUIREMENTS:

- CABLE RATING REQUIREMENTS
 - A. ALL CABLE SHALL BE RATED FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED PER NEC REQUIREMENTS.
 - B. ANY CABLE INSTALLED WITH A RETURN AIR PLenum SHALL BE PLenum RATED (CMP). ANY CABLE DISCOVERED WITH A RETURN AIR PLenum THAT IS NOT RATED FOR SUCH SHALL BE REMOVED AND REINSTALLED WITH THE PROPER RATING AT THE CONTRACTOR'S EXPENSE.
- CABLES INSTALLED WITHIN UNDERGROUND CONDUIT AND/OR DIRECTLY BURIED UNDERGROUND SHALL BE RATED FOR SUCH.
- CABLES SHALL BE SIZED APPROPRIATELY TO OPERATE WITHIN THE VOLTAGE AND CURRENT RANGES PER NEC AND MANUFACTURER'S REQUIREMENTS.
- ALL INSTALLED CABLES SHALL BE CONTINUOUS AND WITHOUT SPICES, UNLESS OTHERWISE NOTED.
- COLORS OF CABLING AND TERMINATIONS USED FOR ALL TECHNOLOGY WORK SHALL CONFORM TO THE DESIGNER'S AND OWNER'S REQUIREMENTS PRIOR TO PROCUREMENT AND INSTALLATION.

ABBREVIATIONS	DESCRIPTION
UNLESS OTHERWISE NOTED	CON
OWNER FURNISH & INSTALL	OFI
OWNER FURNISH & INSTALL	OFI
CONTRACTOR FURNISH & INSTALL	CFI
CONTRACTOR FURNISH & INSTALL	CFI
ABOVE FINISHED FLOOR	AFF
ABOVE FINISHED GRADE	AFG
CEILING MOUNTED DEVICE	CEM
FLOOR MOUNTED DEVICE	FEM
COUNTER HEIGHT	CHR
TO ABOVE ACCESSIBLE CEILING	TAC
TO ABOVE ACCESSIBLE HALLWAY / CORRIDOR CEILING	TAC
WALL MOUNTED	WMP
WEATHER PROOF EQUIPMENT / FURNITURE / DEVICE	WPF
CABLE WITH BRAIDED AND/OR FOL SHIELD	WPF
BELOW FINISHED CEILING	BFC
FURNISHED AND INSTALLED BY OTHERS	FBI

CABLE AND CONDUIT COLOR SCHEDULE	CABLE COLOR	CABLE COLOR	JACK INSERT
DATA	BLUE	BLUE	BLUE
WAP	GREEN	GREEN	GREEN
SECURITY	PURPLE	PURPLE	PURPLE
SECURITY/CAMERA	YELLOW	YELLOW	YELLOW
AV	ORANGE	ORANGE	ORANGE

LEGEND GENERAL NOTES:

- BASE SYMBOLS ARE USED TO REFER TO THE FLOOR PLAN LOCATION AND PROPER ROUGH-IN AND CABLING REQUIREMENTS.
- DIMENSIONS SHOWN IN THE LEGEND ARE TYPICAL, AND SHALL BE CONSIDERED UNLESS OTHERWISE NOTED. SPECIFIC DIMENSIONS INDICATED ON THE FLOOR PLAN SHALL SUPERCEDE THE TYPICAL.
- DIMENSIONS SHALL BE TO CENTER OF BOX / DEVICE UNLESS OTHERWISE NOTED.

TECHNOLOGY LEGEND, SCHEDULE & NOTES

SYMBOL	DESCRIPTION	DEFAULT ROUGH-IN		CABLING TYPE/QUANTITY		NOTES	MISCELLANEOUS NOTES	
		ELEVATION	BOX TYPE/SIZE	TYPE	QUANTITY			
Ⓚ	DATA OUTLET, NUMBER INDICATES QUANTITY OF DATA JACKS AND CABLES. R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	18" AFF UON	4"x4" BOX WITH 1 GANG DEVICE	1' CONDUIT TAAC	CAT 6	(1)	*MINIMUM (1) DATA	
Ⓚ	DATA OUTLET WITH LOCAL INPUT, NUMBER INDICATES QUANTITY OF DATA JACKS AND CABLES. ROUTE (1) CONDUIT TAAC, ROUTE THE OTHER CONDUIT TO THE LOCAL INPUT PANEL/OUTLET IN THE SAME SPACE.	18" AFF UON	4"x4" BOX WITH 2 GANG DEVICE	(2) 1 1/4" CONDUIT TAAC	CAT 6	(1)	*MINIMUM (1) DATA	
Ⓚ	DATA OUTLET WITH LOCAL OUTPUT, NUMBER INDICATES QUANTITY OF DATA JACKS AND CABLES. ROUTE (1) CONDUIT TAAC, ROUTE THE OTHER CONDUIT TO THE LOCAL INPUT OUTLET IN THE SAME SPACE.	18" AFF UON	4"x4" BOX WITH 2 GANG DEVICE	(2) 1 1/4" CONDUIT TAAC	CAT 6	(1)	*MINIMUM (1) DATA	
Ⓚ	VOICE OUTLET, NUMBER INDICATES QUANTITY OF VOICE JACKS AND CABLES. W = WALL PHONE OUTLET AT 48" AFF, PACP = FIRE ALARM CONTROL PANEL OUTLET, ELEV = ELEVATOR PHONE OUTLET.	18" AFF UON	4"x4" BOX WITH 1 GANG DEVICE	1' CONDUIT TAAC	CAT 6	(1)	*MINIMUM (1) VOICE	
Ⓚ	WIRELESS ACCESS POINT, PROVIDE DATA OUTLET AT OR ABOVE CEILING MOUNTED AT AN ACCESSIBLE HEIGHT NO MORE THAN 2" ABOVE CEILING. R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	ABOVE CEILING	4"x4" BOX WITH 1 GANG DEVICE	1' CONDUIT TAAC WHERE NOT INSTALLED AT ACCESSIBLE CEILING	CAT 6A	(1)	PROVIDE A 25 SERVICE LOOP FOR ADJUSTMENT OF FINAL PLACEMENT. COORDINATE LOCATIONS WITH OWNER.	
Ⓚ	FLOOR DATA OUTLET, NUMBER INDICATES QUANTITY OF DATA JACKS AND CABLES. COORDINATE WITH DESIGNER CONTRACTOR.	FLOOR	1 GANG	1' CONDUIT TAAC OF INSTALLED FLOOR	CAT 6	(1)	*MINIMUM (1) DATA	
Ⓚ	EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME, REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS.	N/A	N/A	N/A	N/A	-	"BACKBONE CABLING DETAILS	
Ⓚ	TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS.	N/A	N/A	N/A	N/A	-	"BACKBONE CABLING DETAILS	
Ⓚ	COMMUNICATIONS UTILITY ENTRANCE FACILITY - REFERENCE DATA SYSTEM SCHEMATICS AND DETAILS FOR ADDITIONAL REQUIREMENTS.	N/A	N/A	N/A	N/A	-	"BACKBONE CABLING DETAILS	
Ⓚ	TELECOM ROOM LADDER RACK, SEE AS NOTED. PROVIDE AT LOCATIONS SHOWN. PROVIDE CABLE WARE FULLS, WHERE CABLES EXIT LADDER RACK TO ENTER EQUIPMENT RACKS.	96"	N/A	N/A	N/A	-	PROVIDE FIRE RATED / PAINTED 36" X 8" PLWOOD BACKBOARD SHEETS ON WALLS ENCLAVING THESE SPACES.	
Ⓚ	LOW VOLTAGE CONDUIT PATHWAY / RISERS, SEE AS INDICATED. PROVIDE AT LOCATIONS SPECIFIED. PROVIDE WIRE FALLS WHERE MULTIPLE CABLES EXIT A CONDUIT IN A DOWNWARD DIRECTION.	N/A	N/A	N/A	N/A	-	PROVIDE FIRE RATED / PAINTED 36" X 8" PLWOOD BACKBOARD SHEETS ON WALLS ENCLAVING THESE SPACES.	
Ⓚ	CEILING MOUNTED SPEAKER, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION. SUBSCRIPT 1 = INTEGRAL, VOLU CONTROL. CABLES EXIT A CONDUIT IN A DOWNWARD DIRECTION.	CEILING	N/A	3/4" CONDUIT ABOVE NON-ACCESSIBLE CEILING	N/A	-	(1)	*SEE DETAILS
Ⓚ	LOCAL SOUND SYSTEM CEILING MOUNTED SPEAKER, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION. SUBSCRIPT 2 (1) = SPEAKER ZONE DESIGNATION.	CEILING	N/A	3/4" CONDUIT ABOVE NON-ACCESSIBLE CEILING	N/A	-	(1)	*SEE DETAILS
Ⓚ	SURFACE MOUNTED SPEAKER, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION. R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	90" AFF	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	N/A	-	(1)	*SEE DETAILS
Ⓚ	SURFACE MOUNTED HORN SPEAKER, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION. R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	90" AFF	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	N/A	-	(1)	*SEE DETAILS
Ⓚ	WALL MOUNTED SPEAKER, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION. R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	48" AFF	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	N/A	-	(1)	*SEE DETAILS
Ⓚ	INTER-COMMUNICATION SYSTEM CALL INITIATION STATION, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION.	48" AFF	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	N/A	-	(1)	*SEE DETAILS
Ⓚ	WALL MICROPHONE OUTLET, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION.	18" AFF	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	N/A	-	-	*SEE DETAILS
Ⓚ	AUDIO CONNECTION OUTLET, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION.	18" AFF	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	N/A	-	-	*SEE DETAILS
Ⓚ	AUDIO AND VIDEO CONNECTION OUTLET, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION. R = A QUANTITY OF ADDITIONAL REQUIRED DATA OUTLETS.	18" AFF	4" GANG DEVICES 3/4" DEEP	(2) 1' CONDUIT TAAC	CAT 6A	-	-	*SEE DETAILS FOR OT(1)
Ⓚ	FLAT PANEL DISPLAY OUTLET / FLAT PANEL, OFOI, SEE DETAILS AND DIAGRAMS FOR ADDITIONAL INFORMATION. R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	60" AFF	4"x4" BOX WITH 2 GANG DEVICE	(2) 1 1/4" CONDUIT TAAC	CAT 6	(1)	-	-
Ⓚ	LOWER OF 12" BFC OR 96" AFF	LOWER OF 12" BFC OR 96" AFF	4"x4" BOX WITH 1 GANG DEVICE	N/A	N/A	-	-	-
Ⓚ	SYNCHRONOUS CLOCK HEADEND CONTROLLER	EQUIPMENT RACK	N/A	N/A	CAT 6	(1)	-	-
Ⓚ	CARD / PROXIMITY AUTHENTICATION READER, M = MULTI-USER MOUNTING COORDINATE WITH DOOR HARDWARE SCHEDULE. R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	48" AFF	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	96" COND	(1)	-	IF INTEGRAL TO DOOR HARDWARE, PROVIDE INTERCONNECTION TO DEVICE.
Ⓚ	DOOR POSITION SWITCH, DOUBLE PULL DOUBLE THROW (DPDT), PROVIDE DUAL SWITCHES ON DOUBLE / LEFT DOORS. R = EXISTING DEVICES TO BE REMOVED, RE-CABLED, AND REINSTALLED.	TOP OF DOOR FRAME	N/A	3/4" CONDUIT TAAC	2 COND	(1)	-	IF INTEGRAL TO DOOR HARDWARE, PROVIDE INTERCONNECTION TO DEVICE.
Ⓚ	ELECTRONIC HARDWARE, MOUNTED LOCK CYLINDRICAL LOCK, FRAMC HARDWARE, MAGNETIC LOCK, PANG DEVICES, ETC. TYPE, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	NOISE SIDE OF DOOR FRAME	N/A	3/4" CONDUIT TAAC	2 COND	(1)	-	-
Ⓚ	ELECTRIC STRIKE TYPE DEVICE, COORDINATE WITH DOOR HARDWARE SCHEDULE. R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	STRIKE SIDE OF DOOR FRAME	N/A	3/4" CONDUIT TAAC	2 COND	(1)	-	-
Ⓚ	REQUEST TO EXIT DEVICE, MOTION SENSING RR TYPE OR INTEGRATED WITH EXIT DEVICE HARDWARE. R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	CENT ERVID ABOVE DEVICE	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	6 COND	(1)	-	IF INTEGRAL TO DOOR HARDWARE, PROVIDE INTERCONNECTION TO DEVICE.
Ⓚ	SECURE DOOR LOCATION, SHALL INCLUDE THE DEVICE, ROUGH-IN, & CABLING REQUIRED FOR THE MOTION SWITCH. ELECTRIC STRIKE (ELECTRIFIED HARDWARE, & REQUEST TO EXIT DEVICE DETAILED ABOVE).	ERR ABOVE	SEE ABOVE	SEE ABOVE	SEE ABOVE	-	-	IF INTEGRAL TO DOOR HARDWARE, PROVIDE INTERCONNECTION TO DEVICES.
Ⓚ	DOOR RELEASE PUSH BUTTON, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	UNDER DESK	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	2 COND	(1)	-	-
Ⓚ	LOCAL ANNUNCIATOR ALARM / FINDER	CEILING / WALL	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	2 COND	(1)	-	-
Ⓚ	BURESS ALARM BUTTON / SWITCH	UNDER DESK	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	4 COND	(1)	-	PROVIDE BLANK PLATE WITH GROMMETTED HOLE.
Ⓚ	DOOR INTERCOM MASTER STATION, W = WALL MOUNTED, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	DESK MOUNTED	4"x4" BOX WITH 1 GANG DEVICE	3/4" CONDUIT TAAC	CAT 6	(1)	-	-
Ⓚ	AUDIO/VIDEO INTERCOM DOOR STATION, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	48"	4"x4" BOX	3/4" CONDUIT TAAC	CAT 6	(1)	-	*COORDINATE BOX REQUIREMENTS WITH SPECIFIC DEVICE TO BE PROVIDED.
Ⓚ	VEIS SURVEILLANCE SECURITY CAMERA, CEILING MOUNTED, W = MULTI-VIEW FUNCTIONALITY, DV = DUAL-VIEW FUNCTIONALITY, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	CEILING	4"x4" BOX WITH 2 GANG	3/4" CONDUIT TAAC	CAT 6	(1)	-	-
Ⓚ	VEIS SURVEILLANCE SECURITY CAMERA, WALL OR POLE MOUNTED, W = MULTI-VIEW FUNCTIONALITY, DV = DUAL-VIEW FUNCTIONALITY, R = EXISTING DEVICE TO BE REMOVED, RE-CABLED, AND REINSTALLED.	120" AFF OR AFS	4"x4" BOX WITH 2 GANG	3/4" CONDUIT TAAC	CAT 6	(1)	-	-
Ⓚ	ACCESS CONTROL PANEL LOCATION	SURFACE MOUNT	N/A	N/A	CAT 6	(1)	-	PROVIDE HARD PIPED POWER TO POWER SUPPLY.
Ⓚ	VIDEO SURVEILLANCE SERVER LOCATION	EQUIPMENT RACK	N/A	N/A	CAT 6	(1)	-	-



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PINER ELEMENTARY RENOVATION
KENTON COUNTY SCHOOL DISTRICT
 2945 PINER RIDGE RD, MORNING VIEW, KY
 BG# 25-363

NO.	DESCRIPTION	DATE
DESIGN DEV. SET		04/20/25

TECHNOLOGY LEGEND SCHEDULE & NOTES

25-011

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AUDIO AND VIDEO SYSTEM GENERAL REQUIREMENTS:

- THE FOLLOWING NOTES ON THIS PAGE PROVIDE AN OVERVIEW OF VARIOUS SYSTEM FUNCTIONS AND FEATURES AND SHALL NOT BE CONSTRUED AS FULLY DESCRIBING SYSTEM PERFORMANCE. REFER TO THE COMPLETE PLANS AND SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS AND INFORMATION.
- THE CONTRACTOR SHALL BE PREPARED TO PERFORM SYSTEM VERIFICATION TESTING IN THE PRESENCE OF THE OWNER AND THE DESIGNER. TIME HAS BEEN SCHEDULED INTO THE CONSTRUCTION PROCESS FOR FINAL SYSTEM SETUP TESTING AND COMMISSIONING.
- CABLE GAUGE SHALL BE SIZED FOR THE DISTANCE, VOLTAGE, IMPEDANCE, AND AMPERAGE TO BE CONVEYED AS WELL AS PER MANUFACTURER'S REQUIREMENTS.
- PROVIDE ALL INTERCONNECTION CABLING AS DEPICTED AND AS REQUIRED FOR A COMPLETE AND FUNCTIONAL AUDIO VIDEO SYSTEM. PROVIDE LENGTHS AS REQUIRED WITH SUFFICIENT MAINTENANCE LOOP.
- COORDINATE ANY COLOR SELECTIONS WITH THE OWNER AND THE DESIGNER PRIOR TO PURCHASING EQUIPMENT.
- THESE AND ALL FOLLOWING AUDIO VIDEO NOTES / REQUIREMENTS SHALL APPLY TO ALL AUDIO VIDEO SYSTEMS ON THIS SHEET AND ALL OTHER SHEETS / SYSTEMS ASSOCIATED WITH THIS PROJECT.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS.

CONTROL SYSTEM SOFTWARE AND PROGRAMMING REQUIREMENTS:

- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH FUNCTIONAL CUSTOM CONTROL INTERFACES. SAFE USE IS OF PARAMOUNT IMPORTANCE. THE CONTRACTOR SHALL WORK SEAMLESSLY THROUGH THE SOFTWARE DEVELOPMENT PROCESS WITH THE OWNER TO CREATE THE DESIRED RESULT.
- WHERE POSSIBLE, THE CONTROL SYSTEM SHALL AUTOMATE SYSTEM TASK TO REDUCE REQUIRED USER INTERACTION. FOR EXAMPLE, UPON SOURCE DETECTION, DISPLAYS SHALL POWER ON, SCREENS SHALL DIM, AUDIO SYSTEMS SHALL BE ENABLED AT DEFAULT SETTINGS ETC.
- ALL REMOTE CONTROLABLE AV SYSTEM PRODUCTS WITH REMOTE CONTROL CAPABILITIES SHALL BE INTERFACED TO THE CONTROL SYSTEM WHETHER BY MEANS OF RS232, RS485, DIGITAL IO, IP COMMUNICATIONS, ETC. CONTROL SYSTEM SOFTWARE SHALL CONTROL THE PRODUCT TO THE EXTENT DETERMINED DURING SOFTWARE DEVELOPMENT.

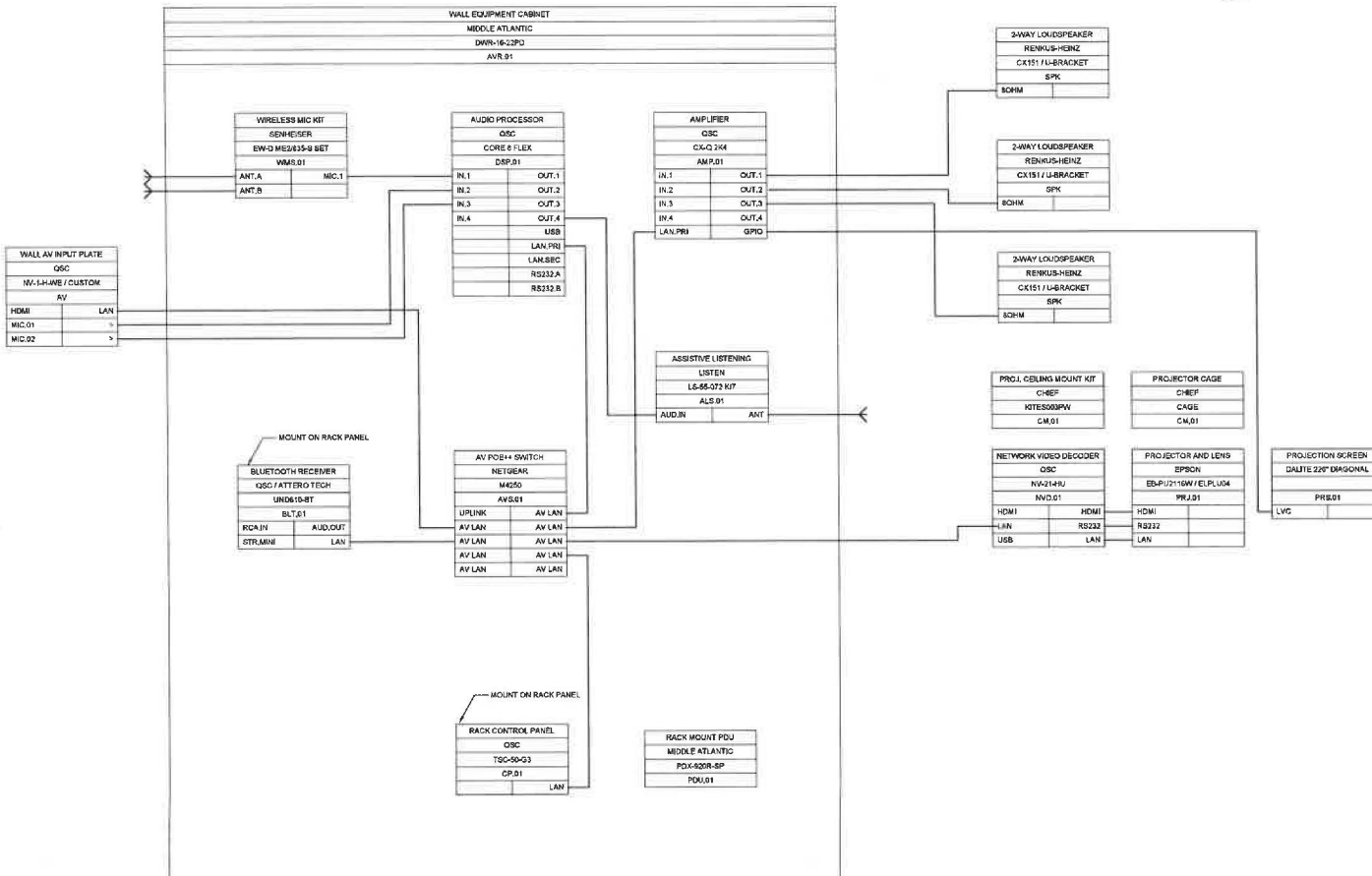
AUDIO SYSTEM PROGRAMMING REQUIREMENTS:

- THE AUDIO SYSTEM SETUP IS CRUCIAL TO THE OVERALL SUCCESSFUL PERFORMANCE OF THESE SPACES. THE CONTRACTOR SHALL BE FLUENT IN THE SETUP OF FLEXIBLE ARCHITECTURE DIGITAL SIGNAL MIXING / PROCESSORS.
- AUDIO SHALL BE SET TO DEFAULT SETTINGS UPON SYSTEM INITIALIZATION. THIS SHALL INCLUDE PHANTOM POWER SETTINGS, MUTE BUTTONS, SUBMASTER MUTE BUTTONS, AND AUDIO GAIN SETTINGS. THESE SHALL BE ADJUSTED UPON FINAL AUDIO SETUP IN THE ROOM WITH WORKING EQUIPMENT.
- THE AUDIO CONTROLS ON THE USER INTERFACES SHALL REPRESENT THE APPROPRIATE USABLE RANGE FOR THE END USER. THE 60 RANGE ON THE USER INTERFACE SHALL INCLUDE A RANGE OF ADJUSTMENT THAT RESULTS IN ADJUSTABLE CHANGES TO THE SPL, AND NOT AN OVERLY BROAD RANGE OF ADJUSTMENT THAT INCLUDES THE ENTIRE GAIN ADJUSTMENT OF THE SYSTEM.



WALL EQUIPMENT CABINET
MIDDLE ATLANTIC
DWR-16-22PD
AVR.01

1
T500 12" x 12" **AVR.01 EQUIPMENT RACK ELEVATION**



1
T500 12" x 12" **EX GYM 150 AUDIO AND VIDEO SYSTEM DIAGRAM**



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TECHNOLOGY DETAILS AND DIAGRAMS

25-011

T500