

KENTUCKY COMMUNITY AND TECHNICAL COLLEGE SYSTEM

REQUEST FOR PROPOSAL ADDENDUM

SOLICITAION NO.:	RFP-0305
ADDENDUM NO.:	3
RFP ISSUE DATE:	December 15, 2023
ADDENDUM DATE:	February 21, 2024
OPENING DATE:	*EXTENDED* MARCH 4, 2024, 4:00PM EST

The following information is being provided in response to questions received for this RFP:

- 1) Date Revision: RFP proposal due date has been extended to MARCH 4, 2024, 4:00PM EST.
- 2) During the Prebid it was stated that any open work orders, at the time of contract change over, would be the responsibility of the current contractor. Please confirm if this is correct.
 - a. That is <u>not</u> correct. KCTCS will require the current provider to complete workorders with parts ordered or work orders currently in progress. All others will become the responsibility of the provider awarded a contract from RFP-0305 on July 1, 2024 (RFP-0305, 5.05 B). KCTCS did state that RFP-0305 has been changed to add the responsibility of finishing all submitted workorders at the end of the currently advertised RFP remain assigned to the maintenance provider until completion (RFP-0305, 2.09 A).
- 3) We assume that the current work order listing will be provided to the awarded contract at the time of contract turnover. Please advise that this will occur.
 - a. Yes, Prior to the July 1, 2024 start KCTCS will hold a "kick off" meeting to insure BAS and Workorder System access. This can be scheduled once a contract has been awarded.
- 4) How will the cost be handled if there are service calls that occur due to uncompleted work orders from the previous contractor?
 - a. All buildings will be "as is" on July 1, 2024 and become the responsibility of the new provider. If there are workorders that KCTCS believes the current vendor has shown negligence in completing KCTCS will offer the current provider an opportunity to correct, if a correction is not provided KCTCS will allow the new provider to invoice KCTCS and then deduct the cost for the work from the last payment to the current provider.
- 5) It was stated that for any obsolete equipment parts etc., i.e. comfort point controls, that the successful contractor would be responsible for only the cost of the obsolete part and that any additional cost for the upgrade would be paid by KCTCS. Please confirm that this is correct.
 - a. This applies only to controls equipment that is no longer available (Honeywell Comfort Point, etc) and systems that will not allow for the integration of a comparable device by another manufacturer. In that specific instance where a total replacement of the entire BAS would be the only option, KCTCS will only hold the provider to the cost of the failed devices, not the total replacement of the building automation system.

- 6) When the RFP describes Preventative Maintenance plan PM, it states that it includes filter changes, water treatment and replacing normal consumables. Please further define what are "normal consumables". Are belts considered normal consumables?
 - a. Yes belts are considered "normal consumables". KCTCS requires that all PM work be fulfilled to the requirements of the original equipment manufacturer.
- 7) Please further clarify who bears the responsibility for Geothermal loop cleanup. It was stated there were a few dirty systems in the portfolio.
 - a. If a geothermal loop is found to be "dirty" during the first test KCTCS will be responsible for having the system flushed and tested before treatment becomes the responsibility of the maintenance provider. This does not relieve the provider from the responsibility of failed equipment related to the geothermal system unless it is proven that contamination is the cause of failure.
- 8) During the Prebid it was stated that the demarcation points for responsibility are as follows.
 - Piping past first value is excluded from contract.
 - * <u>All piping between a piece of equipment to and including the first means of shutoff or disconnect will be included</u> <u>in the contact.</u>
 - All duct work is excluded from contract.
 - * <u>Correct</u>
 - All power wiring before the point of entry to the equipment is excluded from the contract. i.e. disconnects are not included unless it is an integral part of the equipment.
 - * <u>Correct</u>
 - All control wiring is excluded.
 - * <u>Control wiring outside of equipment is excluded, control wiring that is an integral part of equipment or inside of equipment is covered.</u>
 - Pneumatic piping and tubing.
 - * Building pneumatic piping/tubing is not covered, but tubing inside of equipment, or exposed and accessible near a controlled device should be. KCTCS' intent here is for the provider to not be responsible for difficult to access leaks inside walls, ceilings or buried underground, and for KCTCS not to receive invoices for small leaks that could easily be accessed at an actuator etc., just because "pneumatic tubing is not covered".
 - Refrigerant piping outside of the units.
 - <u>Correct</u>
 Please confirm that these are correct.
- 9) At the Prebid it was stated that any exhaust system that where single point of use i.e. welding smoke eaters are the responsibility of KCTCS but if a system served multiple locations, it was the responsibility of the contractor. Please confirm if this is correct.
 - a. Systems integrated into the building are covered. Point of use exhaust systems whether single or double arm are not covered.
- 10) It is stated that the air compressors for pneumatic temperature controls are included and are the responsibility of the contractor. Please confirm that the air compressor for training use i.e. auto shop, welding shop are not included in this contract.
 - a. All air compressors that were installed as part of an engineered capital project and installed during the initial construction or a renovation of the building are covered. This includes compressors for building controls and training shop air of all types. Only compressors that are not a part of the building design and are considered "shop specific equipment" are excluded.

- 11) 51.2 F states that Jace procurement is the responsibility of the owner. Does that mean that any Jace replacement parts will be turned in and paid for by KCTCS?
 - a. KCTCS will procure all JACEs per the provided specifications from the maintenance provider or their sub-contractor. The cost for this JACE is the responsibility of the maintenance provider and will be deducted from their monthly payment.
- 12) Regarding any existing equipment warranties, i.e. compressor warranties. Can KCTCS provide a list of all warranties that are in place with expiration dates?
 - a. This information is not readily available. KCTCS Facilities can work with the awarded supplier on an as needed basis.
- 13) Page 5 states "Do not bind paper together with an adhesive or mechanism such as wire, staple, comb, ring, or strip. Page 9 states "All documents submitted with the proposal should be bound in a single volume except as otherwise specified" How should we submit a hard copy?
 - a. Hard copy responses can be submitted in a 3-ring binder, large binder clip, or envelope. This is so the RFP response can be scanned/uploaded to KCTCS record retention. Hard copy RFP response is not required if the RFP response is uploaded to the Bid Locker site as instructed on page (5), Section C, Option 1.
- 14) Page 3, Number 2, point 3, states "may submit one RFP response to include one or both of two geographic regions of coverage"

"Consideration will be given to proposals which offer cost reductions for the award of both regions" If bidding both regions, how do you advice for us to present a "cost reduction" if granted both regions?

- a. Offerors should respond with pricing for individual buildings within each region. Should multiple regions be considered for an award with one supplier, then pricing (if reduced) should be reflected for each building.
- 15) Page 23, Section 52, Point A. With communication to regions being one point of contact, is the region each school (16) or East/West region (2)?
 - a. KCTCS prefers there to be one person of contact for all contract interpretation issues or disputes and who oversees the providers covered area(s). This person will work with the KCTCS Maintenance Contract Administrator or KCTCS Regional Project Managers. All contract interpretation and disputes will be handled at this level and should not be decided nor communicated by the technicians in the field.
 - b. At the regional college level KCTCS allows KCTCS regional project managers and college maintenance personnel to communicate with regional lead persons and the maintenance provider technicians on workorder clarification issues specific to their college(s).
- 16) Elizabethtown is showing 13 buildings on the "Building Inventory" but we were only provided with equipment lists for 10 buildings. The buildings are "Lincoln Trail Area Development District", "ECTC BlueovalSK On-Site Training Center", and "Rock Church"
 - a. See Attachment A (Rock Church), Attachment B (LTADD), Attachments C.1 & C.2 for the Blueoval equipment.
 - i. Blueoval building note: Attachments C.1 & C.2 are design documents only and what is installed could be slightly different. The first year will be PM only until the 1 year warranty ends, estimated April 2025. The Blueoval building estimated final completion estimated 2 months.
- 17) South Central There was an equipment listing for the Main Bldg, Bldg 50 shows 11 boilers and various other equipment. No one seems to know anything about this building. Would you please clarify if this building exists and if so, where is it located?
 - a. The building 0500 tab was included on the Southcentral equipment list by mistake. The 0500 list in the Southcentral equipment inventory is from previous RFPs and a collection of multiple buildings, please disregard this list entirely.
 - b. Building 0500 is the Main building at Ashland and you should use the "0500" tab on the Ashland equipment list only for your proposal.

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- 18) Please confirm anticipated contract length?
 - a. Please refer to page 10 of the RFP, Section 18, TERM OF CONTRACT

The contract resulting from this solicitation shall be for a period of one year (12 months) with the possibility of annual renewals for future periods. Renewal is not guaranteed but may be executed by mutual agreement. The contract will have 6 optional 12-month renewals.

- 19) Confirm this is a site based service solution with technicians full time at locations and not a route service model.
 - a. This is a means and methods part of the proposal that will be considered during evaluation process. Due to the size and complexity of our buildings, KCTCS prefers to build relationships with our vendors to prevent delays in service due to unfamiliarity with our equipment locations and history. Proposals will not be excluded should a vendor propose a route service model if it can be proven that the service level can be maintained without the need for refamiliarization of the technicians each visit.
- 20) Confirm service scope only relates to HVAC Service and Controls. Confirm all other maintenance such as general (i.e. painting, drywall patching, etc.) is handled by in-house College Maintenance team. Items outside of HVAC and controls.
 - a. The scope of RFP-0305 covers multiple types of equipment, systems, and controls. This includes but is not limited to HVAC equipment, refrigeration equipment, domestic water equipment, generators. It is not limited to only HVAC and HVAC controls. Painting and patching are not a usual part of this contract and would only be expected fi the damage was caused by negligence on the providers behalf.
- 21) Please provide a comprehensive points lists for all existing BAS systems.
 - a. This is a list of about 98,000 points and growing. Once a contract is awarded, the new provider will be given access to the Building Automation System sufficient to review this information and time with the KCTCS Master Systems Integrator to build familiarity within our system.
- 22) What, if any, is the expectation for staff coverage for PTO or absences etc.
 - a. KCTCS expects there to be a plan in place for 100 percent coverage available at all times should an emergency arise. It is the reasonability of the provider to determine how coverage will be maintained during these times.
- 23) What are programming hours and please identify occupancy / use by building on campuses.
 - a. Class hours and building occupancy vary greatly at each college and each semester, however most buildings are open Monday to Friday 7am to 5pm. Hours may change during the summer and on holidays. KCTCS will update these times and dates at each monthly meeting. In the past KCTCS also has not restricted the maintenance providers from accessing our buildings during times the college may be closed.
- 24) Is there a current PM Schedule or are we to fully develop one.
 - a. Not at this time. KCTCS is working to develop an equipment tracking system that will include a PM schedule connected to the KCTCS workorder system. There has not yet been an established timeline for this to be complete and running.
- 25) What is the envisioned reporting structure? Who will the provider's site management report? In short, who on your side will oversee the contract?
 - a. The KCTCS Maintenace Contract Administrator, currently that role is filled by Jeff Hall.
- 26) Please clarify if we are to provide all materials, supplies and parts for maintenance.
 - a. Maintenance provider is required to supply all materials and parts for the contract unless stated otherwise in the contract.
- 27) How are we to handle repairs? Is it expected that we cover all HVAC related repairs no matter end of life, major failure or cost etc.?
 - a. Please review sections 5.02b, 5.07 and 5.08 in the RFP-0305.

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- 28) What are the planned operational hours of all the facilities?
 - a. Most are Monday to Friday, 7am to 5pm local time (of the college location) but can vary by location and time of the year. KCTCS is also willing to accommodate work outside these times.
- 29) Please advise if there is an expectation of a Facility Condition assessment and or Life Cycle Analysis? Are we to include pricing for such?
 - a. There is not, and pricing is not requested.
- 30) Is there any expectation of work or project filing by the provider? i.e. permitting, design fees and filing for a project such as chiller replacement.
 - a. All cost associated with a covered replacement are the responsibility of the provider.
- 31) Please confirm if we are to provide any 24/7 coverage for HVAC service and operation.
 - a. Please review sections 7.01 and 7.02 in the RFP-0305.
- 32) Are there any Collective Bargaining Agreements to consider in this exercise?
 - a. No
- 33) Regarding employee compensation. If we migrate any current employees under (supplier) and not just fill open posts, is it desired that all staff be kept 100% whole, or can local area rates be applied? Please provide current staff roster with roles and current rates of pays and benefits enrollments for ALL roles currently employed including vacant positions.
 a. Not applicable
- 34) Are we to develop an all-encompassing maintenance plan. To do this we need to carry out asset identification and tagging of actual installed mechanical, electrical, and plumbing (MEP) equipment and plant and populate into a CMMS platform. Are we to include these as part of our proposal? Note. Provided Asset Inventory is not reflective of new facilities.
 - a. The development of a maintenance plan is not part of this RFP. KCTCS is working to develop tagging and a preventive maintenance plan outside of this RFP.
- 35) Please confirm your desire for properly populated and fully commissioned CMMS?
 - If a system is in place, what is it and what modules are currently in place? PM; Requested; Event
 - KCTCS currently uses Arcibus FMworks module.
 - If a system is in place, can we receive a summary of all work orders performed in the past full year. Such report to show work by type, completion rates and total hours and material spend.
 - > Some of this data will not be available but KCTCS will provide an excel file with what is available.
 - Can we be provided a guest admin password?
 - Not at this time.
 - If a system is in place and is due to be removed, can we receive an MEP asset dump in excel?
 - The current system will remain.
 - Will the existing system remain and be paid for by the College/
 - Yes
- 36) To correctly populate a CMMS, it is essential to carry out asset tagging. Should contractors include costs for this vital service or is there MEP asset information in place and up to date?

If yes, please provide in excel. A comprehensive asset list (Excel preferable) is needed of all major maintainable equipment. A summary is fine showing something like the following for site / each building – a data dump in excel from existing CMMS would be good too:

a. <u>KCTCS does not have a current asset tracking system in place.</u>

Description / Type	Quantity
Air Compressor Assy.	
Air Dryer	
Air Handler	

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Description / Type	Quantity
Ansul System	
Backflow Preventer	
Boiler	
Chemical Neutralization Trap / Tank	
Chiller	
Condenser	
Cooling Tower Assy.	
Domestic Water Duplex / Triplex	
Ductless or Mini Split System Electric Mains	
Electric Panel	EXAMPLE OF WHAT WE EXAMPLE OF WHAT WE EXAMPLE OF WHAT WE EXAMPLE OF WHAT WE TO EXAMPLE OF WHAT WE EXAMPLE O
Elevator	OF WHAING TO
Emergency Light	MPLE OF SEEKING PM &
Escalator?	EXAMINICIARE UBATE PIG
Exhaust Fan	EXAMPLE OF WHAT WE EXAMPLE OF WHAT WE SEE OF SEE
Exit Lights	EXAMPLE OF WHAT ING TO EXAMPLE OF WHAT ING (Vendor) ARE SEEKING TO (Vendor) ARE SEEKING AFFORD ACCURATE PM & AFFORD ACCURATE PM & CONTRACT COSTING
Fan Coil Unit	A' CONID'
Fire Damper	
Fire Extinguisher	
Fire Pump	
Genset	
Grease Trap	
Heat Exchanger?	
Heat Pump?	
Heat Recovery / Dehumidifier Unit	
Hydrant	
Interior Fire Alarm	
Kitchen Hood	
Lab Hood	
Make Up Air	
Motor	
Pool System	
Pump Assy.	
Return Air Fan	
Roof Top or Packaged Unit	
RTU DX	
Security Systems / Central Station	
Sewage Ejection System	
Sink	
Sprinkler / Standpipe	
Storage Tank	
Supply Vent Fan	
Transfer Switch	
Transformer	
Unit Heater	
Univent	
Urinal	
Variable Freq. Drives	
Water Closet / Bowl	
Water Fountain	
Water Heater	
Water Softener	
Water Treatment Center	

- 37) Please provide any info associated with planned operations budget for the campus.
 - a. The information requested is not available at this time. Please propose the best value your firm has to offer.
- 38) Please provide, if possible and readily available, the past two (2) years utility information for gas, water and electricity by building. If not, then actual spends.
 - a. Access to the CEMCS (Commonwealth Energy Management and Control System) will be granted to the awarded contract.
- 39) Who should financially handle contracts for special third-party vendors Provider holds contracts and pays or you hold contracts and chosen contractor manages and helps negotiate? Essentially, is it desired that all contract costs to reside with the provider and be invoiced for total monthly all-inclusive service? Question applies to contracts such as: (indicate who is to hold what)

Object	Service Provider	Institution
Water treatment		
Vertical Transportation - elevators		
Waste Management		
Pest Control		
Environmental / Backflows		
MRI – CAT Scan Integrity Tests		
Kitchen Equipment / Grease traps		
Gensets – Load Testing & Service		
Interior Fire Alarms / Life Safety Equipment incl. extinguishers, EM &		
Exit Lights etc.		
Medical Gases		
Surgical Vacuum		
Sprinkler / Standpipes Test & Service incl. Fire Pumps		
Chiller Special Service incl. eddy currents etc.		
Boiler Special Service (tune ups, insurance inspections & emissions test)		
Building Automation or any aged controls		
Security Cameras and Access Controls		

a. The provider initiates and holds any additional contracts with sub-contractors required to perform the work described in RFP-0305 and is responsible for all financial agreements related to these agreements.

40) Please provide list of current vendors, scope and frequency of service and annual cost?

- a. Information can be obtained through submitting an Open Records Request through the KCTCS Office of General Counsel. <u>https://systemoffice.kctcs.edu/about/open-access-to-information/open-records-request.aspx</u>
- 41) Please state if any MWBE participation requirements are desired or expected?
 - a. Not required.
- 42) Please confirm if we are to include **ALL Equipment & Supplies** for Maintenance services and requested work orders? *Does this include vehicles?

*Should we provide all lifts, and specialized maintenance shop, test and diagnostic tooling?

- a. Yes, all required transportation, and specialized equipment is the responsibility of the provider.
- 43) Will there be any attic stock / supplies available for contractor use the first year?

a. No

- 44) Will there be any commissioning carried out as part of the overall project. Who will do post construction flushes and cleaning?
 - a. Commissioning is not part of this RFP unless it is required due to the replacement of a covered piece of equipment. Any required labor and supplies, including flushing/cleaning due to a covered equipment failure is the responsibility of the maintenance provider.
- 45) Is there any need to include costs or capabilities to manage future major or medium sized projects? Is there a life cycle study we can see?

a. No

- 46) How is environmental remediation to be handled. Is there an expectation for the provider to carry out the work? How is repeat mitigation to be handled. What is the College commitment to restore / replace defective climate control equipment and systems?
 - a. Environmental remediation is not a part of this RFP and does not need to be considered. KCTCS at this time makes no commitment to replace/restore climate-controlled equipment or systems, however KCTCS does at their discretion update various equipment and/or systems and will work with the provider to insure these new items are covered.
- 47) How do you currently review, analyze and report utilities in view of maintaining ongoing energy use data? Will this be under the contractor? Should we include a module to track all utilities?
 - a. KCTCS is required by KRS 56.782 to utilize the Commonwealth Energy Management and Control System.
- 48) Please confirm any LEED or Historical Registry designations.
 - a. This information is not necessary for responding to RFP-0305.
- 49) Please include current contract terms and conditions currently in use.
 - a. Any current contract terms and conditions are not applicable to providing a response to this RFP.
- 50) What is current contract Annual Amount as of 2023?
 - a. The information requested is not available at this time. Please propose the best value your firm has to offer.

The time to submit questions for this Request for Proposal has now expired. No further questions will be accepted.

Bidders must acknowledge receipt of this and any addenda either with solicitation or by separate letter or email prior to award of contract. If by separate letter, the following information should be placed in the lower left-hand corner of the envelope:

RFP No.:RFP-0305Title:MECHANICAL MAINTENANCE SERVICES

Name of Firm: ______

Authorized Signature: ______

ATTACHMENT A

ELIZABETHTOWN COMMUNITY & TECHNICAL COLLEGE

68040
Elizabethtown
Rock Church
613 College Street Rd.

ID	Equipment Description	# of units	Manufacturer	Equipment Location	Equipment Size	Model #	Serial #	Year in Service
	traight AC with Gas furnace for 1 Frigidaire Exterior FS3BC-060KA FSA0506005						FSA050600528	
	Straight AC with Gas furnace for heat	1	Frigidaire			Label not Present: (Need tools to open equipment and gather additional data).	Label not Present: (Need tools to open equipment and gather additional data).	

ATTACHMENT B

ELIZABETHTOWN COMMUNITY & TECHNICAL COLLEGE

INST.#	68040
CAMPUS #:	Elizabethtown
BLDG:	LTADD
BLDG. #	601 College Street Rd.

ID	Equipment Description	# of units	Manufacturer	Equipment Location	Equipment Size	Model #	Serial #	Year in Service
	Heat Pump with electric EMC heat	1	York	Exteror		YHJF30S41S1A	W1B4459893	
	Heat Pump with electric EMC heat	1	Goodman			ASZ130361AA	901606898	
	Heat Pump with electric EMC heat	1	Daikin			DZ16SA0361BC	1812071875	
	Heat Pump with electric EMC heat	1	Daikin			DZ16SA0481BB	1711451426	
	Heat Pump with electric EMC heat	1	Daikin			DZ16SA0601BA	1605077815	
	Heat Pump with electric EMC heat	1	Goodman			GSZ130601AB	1009004366	

ATTACHMENT C.1

> G MARK OA-1 OA-2

REMARKS

													V V	AIER	300K			CHEDUL									
										DI	MENSIONS	6 (IN)		ELEC	TRICAL				HEAT	ING				CC	OLING		
					ESP (IN		WATER PD (FT.										HEATING CAPACITY			HEAT OF ABSORPTION		SENSIBLE CAPACITY	TOTAL CAPACITY				HEAT (
G MARK	MANUFACTURER	MODEL #	TYPE	NOM. CFM.	WG.)	GPM	H20)	COMPRESSOR TYPE	WEIGHT (LB)	LENGTH	WIDTH	HEIGHT	VOLTAG	E HZ PH	HASE MCA	MOP	(MBH)	EAT (DB) (°F)	EWT (°F)	(MBH)	COP @ AHRI	(MBH)	(MBH)	EAT (DB)	EAT (WB	B) EWT (°F)	REJECT
HHP-12	Climate Master	TS-012	HORIZONTAL	420	0.25	3.00	3.00	1-STAGE SCROLL	160	34.5	24.4	21.6	265 V	60	1 6.4 A	15	11.8	68	45	8.8	4.1	8.9	11.8	80	67	85	14.8
HHP-18	Climate Master	TS-018	HORIZONTAL	650	0.25	4.50	3.10	1-STAGE SCROLL	257	44.6	24.4	25.6	265 V	60	1 13.7 A	20	16.9	68	45	12.8	3.8	15.0	18.3	80	67	85	22.9
HHP-24	Climate Master	TE-026	HORIZONTAL	800	0.50	6.00	3.10	2-STAGE SCROLL	298	48.5	24.4	25.6	265 V	60	1 14.6 A	20	24.2	68	45	18.8	4.5	17.2	25.7	80	67	85	30.9
HHP-30	Climate Master	TE-028	HORIZONTAL	1000	0.50	7.50	3.50	2-STAGE SCROLL	298	48.5	24.4	25.6	265 V	60	1 14.6 A	20	30.1	68	45	24.8	4.7	16.4	30.2	80	67	85	34.6
HHP-36	Climate Master	TE-038	HORIZONTAL	1200	0.50	9.00	5.80	2-STAGE SCROLL	359	50.5	27.4	30.6	265 V	60	1 19.5 A	30	<varies></varies>	68	45	28.8	4.8	26.2	39.5	80	67	85	47.2
VHP-024																											
VHP-36	Climate Master	TE-038	VERTICAL	1200	0.50	9.00	5.80	2-STAGE SCROLL	359	50.5	27.4	30.6	265 V	60	1 19.5 A	30	36.5	68	45	28.8	4.8	26.2	39.5	80	67	85	47.2
VHP-150 REMARKS	Climate Master	TL-150	VERTICAL	5000	1.00	31.25	11.30	2-STAGE SCROLL	700	79.0	53.1	34.0	460 V	60	3 28.5 A	45	148.4	68	45	110.2	3.9	105.7	149.2	80	67	85	188.9
REMARKS															·					•				·			

PROVIDE NEC COMPLIANT DISCONNECT MEANS.
 PROVIDE HOT GAS REHEAT. PROVIDE WITH SPACE HUMIDISTAT.

WATER SOURCE HEAT PUMP I MARK HPS/HPRR BRANCH PIPING SIZE (

MARK	HPS/HPRR BRANCH PIPING SIZE (Ø)	CD (Ø)	
HHP-012	1"	3/4"	
HHP-018	1"	3/4"	
HHP-024	1 1/4"	3/4"	
HHP-036	1 1/4"	1"	
HHP-048	1 1/2"	1"	
HHP-060	1 1/2"	1"	
HHP-072	2"	1 1/4"	
VHP-09	3/4"	3/4"	
VHP-012	1"	3/4"	
VHP-018	1"	3/4"	
VHP-024	1 1/4"	3/4"	
VHP-036	1 1/4"	1"	
VHP-048	1 1/2"	1"	
VHP-060	1 1/2"	1"	
VHP-150	2 1/2"	1 1/4"	

											οι	JTSID	E AIR	UNI	r sc	HED	ULE	E (PA	RT 1	1)												
					PHYSI	CAL DATA		AIRF	LOW CONDI	IONS				SUPPL	Y FAN						EX	HAUST	FAN				DX COOLIN	G COIL				
0.005/									SA ESP		MAX	# OF	T.S.P (IN	5514) (O) T		(== 0= =		MAX	# OF	T.S.P. (IN			0514	TOTAL COOLING CAP.	SENSIBLE COOLING CAP.	EAT (DB/WB)	LAT (DB/WE		0.514	0.514
G MARK	MANUFACTURER	MODEL	LOCATION	LENGTH (IN)	. ,	. ,	WEIGHT (LBS)	. ,	("WC)	RA CFM	CFM	FANS	WG)	RPM	HP			/FD OP. F			ANS			IP VFD	CFM	(MBH)	(MBH)	(°F)	(°F)	TON		-
OA-1	AAON	M2-H-018-R-3-A-B-0-C-0	MECHANICAL MEZZANINE	23' - 10"	6' - 0"	8' - 8"	8210	6500	2	5900	6500	1	3.52	1799	7.69	460 V	3 Y	es 6	0	5900	1	2.70	1600 5.4	1 Yes	6500	319.9	198.13	75.0/62.0	52.06/51.89	25	90	6500
OA-2	AAON	M2-H-018-R-3-A-B-0-C-0	MECHANICAL MEZZANINE	23' - 10"	6' - 0"	8' - 8"	8209	5700	2	5200	5700	1	3.26	1668	6.15	460 V	3 Y	es 6	C	5200	1	2.62	1504 4.5	1 Yes	5700	254.7	164.07	75.0/62.0	53.20/53.03	20	90	5700
		OUTSID	E AIR UNI	T SCHEI	DULE (P	ART 2)																										
					PRE-FILTERS (SA ES	T. ELECTRICAL	DATA																								
G MARK	MANUFACTURER	MODEL	LOCATION		AND EA) `	VOLTAGE	FLA M	CA MOP	REMARKS																							
OA-1	AAON	M2-H-018-R-3-A-B-0-C-0	MECHANICA MEZZANINE		4" 80-85% Pleat ilter / 2" 30% Ple Filter	ed 460 ated	66 7	/1 80	ALL																							

AAON

PROVIDE NEC COMPLIANT DISCONNECT MEANS.
 PROVIDE WITH VFD.
 SHCHDULE IS FOR REFERENCE ONLY. OA-1 AND OA-2 WERE PROVIDED IN PHASE 1 OF PROJECT.

MECHANICAL MEZZANINE

M2-H-018-R-3-A-B-0-C-0

WATER SOURCE HEAT PUMP SCHEDULE

R	UNOUT SCHEDULE
(Ø)	CD (Ø)
	3/4"
	0/48

				HYDR	NIC PUMF	SCHE	DULE						
G MARK	MANUFACTURER	MODEL	TYPE	SERVICE	WEIGHT (LBS)	GPM	HEAD (FT)	VFD	HP	BRAKE HP	EFFICIENCY(%)	RPM	VOLTAGI
P-1A	BELL & GOSSETT	E-1510 3BD	BASE MOUNTED	BUILDING	398	400	55	YES	10	6.8	76.7	1650	480 V
P-1B	BELL & GOSSETT	E-1510 3BD	BASE MOUNTED	BUILDING	398	400	55	YES	10	6.8	76.7	1650	480 V
REMARKS							· ·		·				

PROVIDE NEC COMPLIANT DISCONNECT MEANS.
 PROVIDE VARIABLE FREQUENCY DRIVE.

 4" 80-85% Pleated
 460
 66
 71
 80
 ALL

 Filter / 2" 30% Pleated
 Filter
 Fi

			HVLS FA	N SCHE	DULE			
					E	ELECTRICAL DAT	4	
MARK	MANUFACTURER	MODEL #	TYPE	WEIGHT	FLA	VOLTAGE	PHASE	REMARKS
HVLS-1	GREENHECK	DC-5-12-13LV	High Volume, Low Speed Ceiling Fan	100	5 A	115 V	1	

IIT SCH	IEDU			·)		HAUST	FAN					DX COOLING	GCOIL					DX COI	L (WSHP-HE	EATING M		
7.69 40	/OLT. PH -60 V 3 -60 V 3		P. FREQ. 60 60	MAX CFM 5900 5200	# OF FANS 1 1	T.S.P. (IN WG) 2.70 2.62	RPM 1600 5 1504 4		s 6500	319.	G CAP. C H) .9	SENSIBLE OOLING CAP. (MBH) 198.13 164.07	EAT (DB/WB) (°F) 75.0/62.0 75.0/62.0	LAT (DB/ (°F) 52.06/51 53.20/53	.89 25	5 90	CFM 6500 5700	EAT (DB)(°F) 70.0/58.0 70.0/58.0	. , ,	08 90	HEAT // (M 32	OTAL ING CAP. MBH) 28.56 50.75
	DULE	-	ATING			.NI								COOL	ING			05				
Y EAT (DE 68 68	3 3	EWT (°F) 45 45		EAT OF AE (ME 8. 12	8H) 8 .8		4	2) AHRI .1 .8		NSIBLE CAPA (MBH) 8.9 15.0		TOTAL CAPA (MBH) 11.8 18.3		AT (DB) E 80 80	67 67	85 85	HEAT REJECT 14.8 22.9	FION	EER @ 13 14	.2 .1	RE	MARKS 1 1
68 68 68	3	45 45 45		18 24 28	.8		4	.5 .7 .8		17.2 16.4 26.2		25.7 30.2 39.5		80 80 80	67 67 67	85 85 85	30.9 34.6 47.2	6	16 16 17	6.8		1 1 1
68 68		45 45		28 11(.8 .9		26.2 105.7		39.5 149.2		80 80	67 67	85 85	47.2 188.9		17 12			1 ALL
			HYD	RONI	C PU	MP \$	SCH	EDUL	E													
E UNTED UNTED		SERV BUILD BUILD	ING	V	/EIGHT (Ll 398 398	BS)	GPM 400 400		AD (FT) 55 55	VFD YES YES	HP 10 10	BRAKE HP 6.8 6.8	76	ENCY(%) 6.7 6.7	RF 16 16	50	VOLTAGE 480 V 480 V		ASE FI 3 3	REQUENC 60 60		MARKS ALL ALL
												SPLIT	SYSTI DIMENSIO		DOO	RUN				CAL		
	1				[MARK SS-1	MODEL FTX24NM	VJU DA	NUF. LENG IKIN 39	TH WIDT 10	TH HEIG	2	GHT (LBS 27	6) (CFM) 745	VOL 20	TAGE 8 V	PHASE 1		MARKS ALL
REMARKS	_									SPLIT S			TOTA	L S		HE			ELECTRIC	CAL		
KEMARKS	_				MARK CU-1 REMARK	DA	NUF. IKIN	MODEL RX24NM\		NGTH WID 34 13		GHT (LBS)	(BTU/F 2120	IR) (BTU/HR) 15760	(B)	ru/HR) I	MCA MO 18 A 20			HASE F	REMARKS ALL
					1. PRO	VIDE NE			SCONNECT													
					2. CON	IDENSIN	G UNIT F	OWERS I	INDOOR UN													
					2. CON	IDENSIN	G UNIT F	OWERSI	INDOOR UN						ר בוו	TED	SOUE					
					2. CON	IDENSIN	G UNIT F	OWERSI	INDOOR UN	NIT.	MARK LF-1	MANUFACTUR HARMSCO	ER MO		P FIL GPM 40	F	SCHE	DULE P.D. (PS 1.25	- I) S	6IZE "X15"		IARKS
					2. CON	IDENSIN	G UNIT F	OWERSI	INDOOR UN	NIT.	LF-1 MARKS PROVIDE	HARMSCO	ER MO WB 9 AND 1" BA	DEL 0-SC2	GPM 40 ROUTE 1	FO NEAR	EST FLOOR	P.D. (PS 1.25	- I) S			
					2. CON	IDENSIN	G UNIT F	OWERS I		NIT.	LF-1 MARKS PROVIDE APPROVE	HARMSCO 1" DRAIN LINE D MANUFACT	ER MO WB 9 AND 1" BA URERS AR	DEL 0-SC2 LL VALVE E HARMS(GPM 40 ROUTE 1 CO, LAKO	FO NEARI S, AND J.	EST FLOOR	P.D. (PS 1.25	- I) S			
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					MAF EH EHC REM 1. 2. 3. 4.	RK -1 C-1 C-1 C PROVIDE PROVIDE COLOR PROVIDE	CP RADIA E NEC CO E THERM TO BE SE E WALL M	MODEL # 5100 NT CEILIN OMPLIANT IAL OVER ELECTED MOUNT AG	4 NG PANEL I DISCONN LOAD PRO BY ARCHIT CCESSORIE	NIT. NIT. REI 1. 2. MANUF. TASKMASTI MARKEL ECT MEANS. TECTION. ECT. ES AND MOU	LF-1 MARKS PROVIDE APPROVE ELI LENG ER 14 48	HARMSCO 1" DRAIN LINE D MANUFACT ECTRIC DIMENSIONS TH WIDTH 7 24 //UM OF 7'-0" A	ER MO WB 9 AND 1" BA URERS AR HEAT (IN.) HEIGHT 18 6	DEL 0-SC2 E HARMSO TER S WATT 3300 750	GPM 40 ROUTE 1 CO, LAKO	FO NEARI S, AND J. DUL IRFLOW (CFM) 400 0	EST FLOOR L. WINGER VOLTAG	P.D. (PS 1.25 DRAIN. T. ELE(EE E 12 A	I) S 15" CTRICAL	"X15" PHASE 1	Α Ξ R	REMARKS 1,2,3,4,6
					MAF EH EHC 2. 3. 4. 5. 6.	RK -1 C-1 C-1 COLOR PROVIDE COLOR PROVIDE PROVIDE PROVIDE PROVIDE	E NEC CO E THERM TO BE SE E WALL M E RADIAN E WITH R	MODEL # 5100 NT CEILIN AL OVER LECTED MOUNT AC T CEILING EMOTE M	E NG PANEL I DISCONN LOAD PRO BY ARCHIT CCESSORIE G PANEL H AOUNTED 1	NIT. NIT. NIT. REI 1. 2. MANUF. 1. 2. 1. 2. ECT MEANS. TECTION. ECT. ES AND MOUL EATER AND OT EATER AND OT EATE	LF-1 MARKS PROVIDE APPROVE ELI LENG ER 14 48 NT A MININ COORDINA	HARMSCO 1" DRAIN LINE D MANUFACT ECTRIC DIMENSIONS TH WIDTH 7 24	ER MO WB 9 AND 1" BA URERS AR HEAT (IN.) HEIGHT 18 6	DEL 0-SC2 E HARMSO TER S WATT 3300 750	GPM 40 ROUTE 1 CO, LAKO	FO NEARI S, AND J. DUL IRFLOW (CFM) 400 0	EST FLOOR L. WINGER VOLTAG	P.D. (PS 1.25 DRAIN. T. ELE(EE E 12 A	I) S 15" CTRICAL	"X15" PHASE 1	Α Ξ R	REMARKS 1,2,3,4,6
			MODEL		MAF EH EHC 2. 3. 4. 5. 6.	RK -1 -1 PROVIDE PROVIDE PROVIDE PROVIDE PROVIDE PROVIDE	E NEC CO E THERM TO BE SE E WALL M E RADIAN E WITH R E WITH R	MODEL # 5100 NT CEILIN AL OVER LECTED AOUNT AC T CEILIN EMOTE N EMOTE N	4 NG PANEL I DISCONN LOAD PRO BY ARCHIT CCESSORIE G PANEL H MOUNTED 1 MOUNTED 1	NIT. NIT. REI 1. 2. MANUF. 1. 2. ECT MEANS. TASKMASTI MARKEL ECT MEANS. TECTION. ECT. ES AND MOUL EATER AND OUT EATER AND OUT	LF-1 MARKS PROVIDE APPROVE ELI LENG ER 14 48 NT A MININ COORDINA T. RE SENSO ER SC	HARMSCO	AND 1" BA URERS AR HEAT (IN.) HEIGHT 18 6	DEL 0-SC2 E HARMSO TER S WATT 3300 750	GPM 40 ROUTE 1 CO, LAKO	FO NEARI S, AND J. DUL IRFLOW (CFM) 400 0	EST FLOOR L. WINGER VOLTAG 277 V 277 V	P.D. (PS 1.25 DRAIN. T. ELE(5E E 12 A 3 A 3 A	I) S 15"	"X15" PHASE 1 1	A E R 1 1	EMARKS 1,2,3,4,6 1,2,3,5,7
L-1	NUFACTU		MODEL ELF-375D	X	MAF EH EHC 2. 3. 4. 5. 6. 7.	RK -1 C-1 C-1 PROVIDE PROVIDE PROVIDE PROVIDE PROVIDE PROVIDE	E NEC CO E THERM TO BE SE E WALL M E RADIAN E WITH R E WITH R E WITH R	MODEL # 5100 NT CEILIN DMPLIANT IAL OVER ELECTED MOUNT AC TOUNT AC EMOTE M EMOTE M EMOTE M	4 NG PANEL I DISCONN LOAD PRO BY ARCHIT CCESSORIE G PANEL H MOUNTED 1 MOUNTED 1	NIT. NIT. REI 1. 2. MANUF. 1. 2. MANUF. TASKMASTI MARKEL ECT MEANS. TECTION. ECT. ES AND MOUL EATER AND CO THERMOSTAT TEMPERATUF LOUVE	LF-1 MARKS PROVIDE APPROVE ELI LENG ER 14 48 NT A MININ COORDINA T. RE SENSO ER SC	HARMSCO	AND 1" BA URERS AR HEA (IN.) HEIGHT 18 6 FF. ING PLAN I WO RADIA	DEL 0-SC2 E HARMSO TER S WATT 3300 750	GPM 40 ROUTE 1 CO, LAKO	FO NEARI S, AND J. DUL IRFLOW (CFM) 400 0	EST FLOOR L. WINGER VOLTAG 277 V 277 V	P.D. (PS 1.25 DRAIN. T. ELEC ELEC 3 A 3 A REA VE (I) S 15"	"X15" PHASE 1	A E R 1 1	REMARKS 1,2,3,4,6
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3 2 MARK LF-1 EMARKS PROVIDI APPROV EL	28 108 MANUFACTUR HARMSCO E 1" DRAIN LINE // DMANUFACT ECTRIC DIMENSIONS GTH WIDTH 4 7 3 24 IMUM OF 7'-0" A JATE WITH CEIL DR WIRED TO T CHEDUL RVICE 0 RETURN BUCT INLET SIZE 6" DIA. 3" DIA. 10" DIA. 12" DIA. 14" DIA. 36"X16" 6" DIA. 8" DIA. 10" DIA. 12" DIA. 14" DIA. 10" DIA. 12" DIA. 10" DIA. <td>21200 LOC ER MODEL WB 90-SC2 AND 1" BALL VALNURERS ARE HARW HEATER (IN.) HEIGHT HEIGHT WA 18 33 6 7 HEATER (IN.) HEIGHT WA 18 33 6 7 HEATER (IN.) HEIGHT WA 18 33 6 7 HEATER (IN.) HEATER (IN.) HEATER (IN.) HEATER (IN.) ING PLAN FOR MC (IN.) WO RADIANT PAN (IN.) DUCT BRANCH S 6" DIA. 0UCT BRANCH S 6" DIA. 10 10 11 11 12" DIA. 14" DIA. 13" DIA. 10" DIA. 14" DIA. 11" DIA. 12" DIA. 14" DIA. 14" DIA. 11" DIA. 14" DIA. 11" DI</td> <td>15760 DP FII GPM 40 VE. ROUTE SCHI ATTS 300 50 DUNTING T ELS IN VES CONTING T ELS IN VES 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>24 Image: Contract of the second state of</td> <td>4000 18 A SCHEDI ITER P. C/90-50 ST FLOOR DR/ ST FLOOR DR/ R VOLTAGE 277 V 277 V 277 V ST FLOOR DR/ RUCT ON-S 0.05 0.05</td> <td>20 20 ULE </td> <td>8 V 1 SIZE 5"X15" 5 PHASE 1 1 1 1 P.D. (IN) 0.03 P.D. (IN) 0.03 P.D. (IN) 0.03 F.D. (IN) 1 F.D. (IN) 0.03 F.D. (IN) 1 F.D. (IN) F.D. (IN) 1 F.D. (IN) 1 F</td> <td>ALL REMARKS ALL REMARKS 1,2,3,4,6 1,2,3,4</td>	21200 LOC ER MODEL WB 90-SC2 AND 1" BALL VALNURERS ARE HARW HEATER (IN.) HEIGHT HEIGHT WA 18 33 6 7 HEATER (IN.) HEIGHT WA 18 33 6 7 HEATER (IN.) HEIGHT WA 18 33 6 7 HEATER (IN.) HEATER (IN.) HEATER (IN.) HEATER (IN.) ING PLAN FOR MC (IN.) WO RADIANT PAN (IN.) DUCT BRANCH S 6" DIA. 0UCT BRANCH S 6" DIA. 10 10 11 11 12" DIA. 14" DIA. 13" DIA. 10" DIA. 14" DIA. 11" DIA. 12" DIA. 14" DIA. 14" DIA. 11" DIA. 14" DIA. 11" DI	15760 DP FII GPM 40 VE. ROUTE SCHI ATTS 300 50 DUNTING T ELS IN VES CONTING T ELS IN VES 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1	24 Image: Contract of the second state of	4000 18 A SCHEDI ITER P. C/90-50 ST FLOOR DR/ ST FLOOR DR/ R VOLTAGE 277 V 277 V 277 V ST FLOOR DR/ RUCT ON-S 0.05 0.05	20 20 ULE	8 V 1 SIZE 5"X15" 5 PHASE 1 1 1 1 P.D. (IN) 0.03 P.D. (IN) 0.03 P.D. (IN) 0.03 F.D. (IN) 1 F.D. (IN) 0.03 F.D. (IN) 1 F.D. (IN) F.D. (IN) 1 F.D. (IN) 1 F	ALL REMARKS ALL REMARKS 1,2,3,4,6 1,2,3,4
3 2 MARK IF-1 IMARKS PROVIDI APPROV IEL MARKS PROVIDI APPROV IEL ILENG IER ILENG IER ILENG IER IRE SENSO SEI VHP-15 VHP-15 IRE SIZE SEI VHP-15 SEI VHP-15 SEI VHP-15 SEI VHP-15 SEI VHP-15 SEI STATA SEI VHP-15 SEI VHP-15 SEI STATA SEI <	28 108 MANUFACTUR HARMSCO E 1" DRAIN LINE Commentation Zeb MANUFACT ECTRIC DIMENSIONS GTH WIDTH 4 7 3 24 A A IMUM OF 7'-0" A A IMURED TO T C CHEDUL D RVICE 0 NETURN B BUCT INLET SIZE 6" DIA. 36"X16" 6" DIA. 36"X10" 10" DIA. 12" DIA. 112" DIA. 10" DIA. 120" X10" 16" X12" 24"X24" COORPLANS. NFORMATION 2142 1.30.23 A	21200 ER MODEL WB 90-SC2 AND 1" BALL VALVURERS ARE HARM HEATER (IN.) HEIGHT WA 18 33 6 7 FF. ING PLAN FOR MC WO RADIANT PAN E CFM 5000 DUCT BRANCH S 6" DIA. VALL MOUNTE 6" DIA. 8" DIA. 10" DIA. 12" DIA. 14" DIA. 10" DIA. 12" DIA. 14" DIA. 10" DIA. 12" DIA. 14" DIA. 14" DIA. 1	15760 OP FII GPM 40 VE. ROUTE SCHI ATTS 300 750 DUNTING T ELS IN VES 0 0 1 7 0 1 1 1 1 1 1 1 1 1 1 1 1 1	24 Image: Contract of the second state of	4000 18 A SCHEDI ITER P. C/90-50 ST FLOOR DR/ ST FLOOR TAGE Y OLTAGE ST FLOOR TAGE P.D. 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	20 20 ULE	8 V 1 SIZE 5"X15" 5"X15" 1 1 1 PHASE 1 1 1 P.D. (IN) 0.03 P.D. (IN) 0.03 PATTERN - -	ALL REMARKS ALL REMARKS 1,2,3,4,6 1,2,3,4

2.70 1	AN RPM HP VFD 1600 5.41 Yes 1504 4.51 Yes	CFM 6500 5700	TOTAL DOLING CAP. CO (MBH) 319.9 254.7	DX COOLING SENSIBLE OOLING CAP. (MBH) 198.13 164.07	COIL EAT (DB/WB) (°F) 75.0/62.0 53.20/53	TON GP	M CFM () 6500 7	DX COIL (WSHP EAT DB)(°F) LAT (DI 0.0/58.0 91.6/6 0.0/58.0 87.80/6	B)(°F) GPM 1.08 90	DE) TOTAL HEATING CAP. (MBH) 328.56 250.75
	COP @ AHRI 4.1 3.8 4.5	(MI 8 15 17	9 5.0 7.2	TOTAL CAPAC (MBH) 11.8 18.3 25.7		AT (WB) EWT (°F 67 85 67 85 67 85	14.8 22.9 30.9	N EER	@ AHRI 13.2 14.1 16.5	REMARKS 1 1 1 1
	4.7 4.8 4.8 3.9	16 26 26 10	5.2	30.2 39.5 39.5 149.2	80 80 80 80 80 80	67 85 67 85 67 85 67 85 67 85	34.6 47.2 47.2 188.9		16.8 17.4 17.4 12.8	1 1 1 ALL
(LBS)	SCHEDULE GPM HEAD (400 55 400 55		S 10	BRAKE HP 6.8 6.8	EFFICIENCY(%) 76.7 76.7	RPM 1650 1650	VOLTAGE 480 V 480 V	PHASE 3 3	FREQUENCY 60 60	REMARKS ALL ALL
		SS-1 FTX	10DEL # MAI 24NMVJU DA	NUF. LENGT IKIN 39	10 12	GHT WEIGHT (LE 2 27	AIRFLOW (CFM) 745	ELECT VOLTAGE 208 V	RICAL PHASE 1	REMARKS
RK MANI	UF. MODEL #		LIT SYST ENSIONS (IN.) WIDTH HEIG	WEIGHT	COOLING	SENSIBLE H COOLING C/	HEDULE	ELECT	RICAL	SE REMARKS
									0175	DEMADI/O
			LF-1 REMARKS 1. PROVIDE 2. APPROVE	D MANUFACTL	AND 1" BALL VALVE	GPM 40 I ROUTE TO NEAF CO, LAKOS, AND	FILTER F HC/90-50 REST FLOOR DF J.L. WINGERT.	P.D. (PSI) 1.25	SIZE 15"X15"	REMARKS ALL
IARK EH-1 HC-1 CE	MODEL # 5100 2 RADIANT CEILING	TASK	LF-1 REMARKS 1. PROVIDE 2. APPROVE ELI ANUF. LENG MASTER 14	HARMSCO 1" DRAIN LINE A D MANUFACTU ECTRIC DIMENSIONS (I TH WIDTH 7	Image: Model Model WB 90-SC2 WB 90-SC2 AND 1" BALL VALVE JRERS ARE HARMSO JRERS ARE HARMSO HEIGHT WB.) HEIGHT HEIGHT WAT 18 3300	GPM 40 1 . ROUTE TO NEAF CO, LAKOS, AND SCHEDUL AIRFLOW (CFM) 0 400	FILTER F HC/90-50 REST FLOOR DF J.L. WINGERT.	P.D. (PSI) 1.25 RAIN. ELECTRICAL E MCA 12 A	15"X15"	ALL REMARKS 1,2,3,4,6
EH-1 HC-1 CF PROVIDE PROVIDE COLOR TO PROVIDE PROVIDE PROVIDE		TASK PANEL M SCONNECT M AD PROTECTIO ARCHITECT. ESSORIES ANE PANEL HEATER JNTED THERM JNTED TEMPE	LF-1 REMARKS 1. PROVIDE 2. APPROVE ELI ANUF. LENG MASTER 14 ARKEL 48 EANS. DN. MOUNT A MININ AND COORDINA OSTAT.	HARMSCO	Image: Model Model WB 90-SC2 WB 90-SC2 AND 1" BALL VALVE JRERS ARE HARMSO JRERS ARE HARMSO JRERS ARE HARMSO IN.) HEIGHT WAT 18 3300 6 750 FF. NG PLAN FOR MOUL VO RADIANT PANEL	GPM 40 1 . ROUTE TO NEAF CO, LAKOS, AND SCHEDUI AIRFLOW (CFM) 0 400 0 0 0 0	FILTER F HC/90-50 REST FLOOR DF J.L. WINGERT.	P.D. (PSI) 1.25 RAIN. ELECTRICAL E MCA 12 A 3 A	15"X15"	ALL
EH-1 HC-1 CF PROVIDE PROVIDE COLOR TO PROVIDE PROVIDE PROVIDE PROVIDE Y GAUGE AL	5100 P RADIANT CEILING I NEC COMPLIANT DI THERMAL OVERLO/ D BE SELECTED BY WALL MOUNT ACCE RADIANT CEILING P WITH REMOTE MOU WITH REMOTE MOU ESCRIPTION UMINUM, 4" THICK, I	TASK PANEL M SCONNECT M AD PROTECTIO ARCHITECT. SSORIES ANE PANEL HEATER JNTED THERM JNTED THERM JNTED TEMPE	LF-1 REMARKS 1. PROVIDE 2. APPROVE ELI ANUF. LENG (MASTER 14 ARKEL 48 EANS. DN. MOUNT A MININ AND COORDINA OSTAT. RATURE SENSOI UVER SC SER VHP-150	HARMSCO	ER MODEL WB 90-SC2 AND 1" BALL VALVE JRERS ARE HARMS HEATER S IN.) HEIGHT WAT 18 3300 6 750 FF. NG PLAN FOR MOUNT VO RADIANT PANEL E CFM 5000	GPM 40 1 1 1 1 1 1 1 1 1 1 1 1 1	FILTER F HC/90-50 REST FLOOR DF J.L. WINGERT.	P.D. (PSI) 1.25 RAIN. ELECTRICAL E MCA 12 A 3 A VELOCITY (FPM)	15"X15"	ALL REMARKS 1,2,3,4,6 1,2,3,5,7 REMARKS
EH-1 HC-1 CF EMARKS: PROVIDE COLOR TO PROVIDE PROVIDE PROVIDE PROVIDE Y GAUGE AL CHITECT. TURAL SECT	5100 P RADIANT CEILING I NEC COMPLIANT DI THERMAL OVERLO/ D BE SELECTED BY WALL MOUNT ACCE RADIANT CEILING P WITH REMOTE MOL WITH REMOTE MOL ESCRIPTION LUMINUM, 4" THICK, I TIONS AND ELEVAT TIONS AND ELEVAT ENUM 1/2" EGG CRAT	TASK PANEL M/ SCONNECT M AD PROTECTIC ARCHITECT. ESSORIES AND ANEL HEATER JNTED THERM JNTED THERM JNTED TEMPE LOUVER	LF-1 REMARKS 1. PROVIDE 2. APPROVE 2. APPROVE ELI ANUF. LENG MASTER 14 ARKEL 48 EANS. DN. D MOUNT A MINIM AND COORDINA OSTAT. RATURE SENSOI UVER SC UVER SC SER VHP-150 GRILLESIZE 24"X24" 36"X16" 24"X24"	HARMSCO	Image: model WB 90-SC2 AND 1" BALL VALVE JRERS ARE HARMSO Image: model Image:	GPM 1 40 1 40 1 COUTE TO NEAF CO, LAKOS, AND SCHEDUI AIRFLOW AIRFLOW (CFM) 0 400 0 400 0 0 NTING TYPE. SIZE 72"X48" SIZE SIZE 72"X48" MAX CFM 100 100 100	FILTER F HC/90-50 REST FLOOR DF J.L. WINGERT. J.L. WINGERT. Image: Constraint of the second se	P.D. (PSI) 1.25 1.25 RAIN. ELECTRICAL E MCA 12 A 3 A VELOCITY (FPM) 385 NOISE CRITERIA 25 20 25	15"X15"	ALL REMARKS 1,2,3,4,6 1,2,3,5,7 REMARKS ALL REMARKS ALL
EH-1 HC-1 CF EMARKS: PROVIDE COLOR TO PROVIDE PROVIDE PROVIDE PROVIDE PROVIDE Y GAUGE AL CHITECT. TURAL SECT CHITECT. TURAL SECT ALUMII ALUMII ALUMII ALUMII ALUMII ALUMII ALUMII MINUM ADJ JMINUM ADJ	5100 P RADIANT CEILING I NEC COMPLIANT DI THERMAL OVERLO/ D BE SELECTED BY WALL MOUNT ACCE RADIANT CEILING P WITH REMOTE MOU WITH REMOTE MOU ESCRIPTION LUMINUM, 4" THICK, I TIONS AND ELEVAT REGIS TYPE NUM 1/2" EGG CRAT ED DEFLECTION RE	TASK PANEL M/ SCONNECT M AD PROTECTIO ARCHITECT. SSORIES AND ANEL HEATER JNTED THERM JNTED THERM JNTED THERM JNTED TEMPE LOUVER IONS. STERS, STERS, E E E E E E E E E E E E E E E E E E E	LF-1 REMARKS 1. PROVIDE 2. APPROVE ELI ANUF. LENG (MASTER 14 ARKEL 48 EANS. DN. D MOUNT A MININ AND COORDINA OSTAT. RATURE SENSON UVER SC SER VHP-150 GRILLE SIZE 24"X24" 36"X16"	HARMSCO	Image: model with goldschafter WB 90-SC2 AND 1" BALL VALVE JRERS ARE HARMSO IN.) HEIGHT WAT 18 3300 6 750 FF. NG PLAN FOR MOUL VO RADIANT PANEL Image: CFM 5000 Image: CFM DIFFUSER DUCT BRANCH SIZE 6" DIA. WALL MOUNTED	GPM 1 40 1 . ROUTE TO NEAF CO, LAKOS, AND SCHEDUI AIRFLOW (CFM) 0 0 400 0 400 0 0 NTING TYPE. .S IN VESTIBULE. SIZE 72"X48"	FILTER F HC/90-50 REST FLOOR DF J.L. WINGERT. Image: Constraint of the second seco	P.D. (PSI) 1.25 RAIN. ELECTRICAL E MCA 12 A 3 A VELOCITY (FPM) 385 VELOCITY (FPM) 385	15"X15"	ALL REMARKS 1,2,3,4,6 1,2,3,5,7 REMARKS ALL REMARKS ALL
EH-1 HC-1 CF EMARKS: PROVIDE P	5100 P RADIANT CEILING I NEC COMPLIANT DI THERMAL OVERLO/ D BE SELECTED BY WALL MOUNT ACCE RADIANT CEILING P WITH REMOTE MOU WITH REMOTE MOU ESCRIPTION UMINUM, 4" THICK, I TIONS AND ELEVAT TIONS AND ELEVAT TIONS AND ELEVAT UMI 1/2" EGG CRAT NUM 1/2" EGG CRAT	TASK PANEL M/ SCONNECT M AD PROTECTIO ARCHITECT. SSORIES ANE ANEL HEATER JNTED THERM JNTED THERM E E E E E E E E TURN GRILLE DIFFUSER DIFFUSER DIFFUSER CONSER JNTED THERM JNTED THERM JNTED THERM JNTED THERM CONS.	LF-1 REMARKS 1. PROVIDE 2. APPROVE ELI ANUF. LENG ANUF. LENG MASTER 14 ARKEL 48 EANS. DN D MOUNT A MININ AND COORDINA OSTAT. SER VHP-150 VHP-150 GRILLE SIZE 24"X24" 24"X24" 24"X24"	HARMSCO	Image: model with solution in the solutinet in the solution in the solution in the solution in	GPM 1 40 1 40 1 CO, LAKOS, AND 1 SCHEDUL AIRFLOW (CFM) 0 400 0 400 0 400 0 72"X48" SIZE 72"X48" SIZE 100 100 100 100 225 400 600 100 1200 100 225	FILTER F HC/90-50 REST FLOOR DF J.L. WINGERT. P Image: Constraint of the second sec	P.D. (PSI) 1.25 RAIN. ELECTRICAL E MCA 12 A 3 A VELOCITY (FPM) 385 VELOCITY (FPM) 385 VELOCITY (FPM) 385 25 25 25 25 25 25 25 25 25 2	15"X15" PHASE 1 1 0.03 P.D. (IN) 0.03 THROW PATTERN -	ALL REMARKS 1,2,3,4,6 1,2,3,4,6 1,2,3,5,7 REMARKS ALL REMARKS ALL
EH-1 HC-1 CF EMARKS: PROVIDE COLOR TO PROVIDE	5100 P RADIANT CEILING I NEC COMPLIANT DI THERMAL OVERLO D BE SELECTED BY WALL MOUNT ACCE RADIANT CEILING P WITH REMOTE MOL WITH REMOTE MOL UMINUM, 4" THICK, I ESCRIPTION UMINUM, 4" THICK, I TIONS AND ELEVAT REEGIS TYPE NUM 1/2" EGG CRAT ED DEFLECTION RE NUM 1/2" EGG CRAT	TASK PANEL M/ SCONNECT M AD PROTECTION ARCHITECT. ESSORIES AND ARCHITECT. ESSORIES AND ARCHITECT. ESSO	LF-1 REMARKS 1. PROVIDE 2. APPROVE 2. APPROVE ANUF. LENG ANUF. LENG MASTER 14 ARKEL 48 EANS. DN. MOUNT A MININ AND COORDINA OSTAT. RATURE SENSON UVER SC SER VHP-150 CUVER SIZE 24"X24" 24"X4" 24"	HARMSCO	Image: And 1" Ball Valve with the second state of the s	GPM 1 40 1 40 1 CO, LAKOS, AND 1 SCHEDUL AIRFLOW (CFM) 0 400 0 400 0 400 0 100 SIZE 72"X48" SIZE 72"X48" SIZE 100 100 100 1200 100 1200 100 1200 400 600 100 1200 100 440 300	FILTER F HC/90-50 REST FLOOR DF J.L. WINGERT. P Image: Constraint of the second sec	P.D. (PSI) 1.25 RAIN. ELECTRICAL E MCA 12 A 3 A VELOCITY (FPM) 385 VELOCITY (FPM) 385 VELOCITY (FPM) 385 20 25 25 25 25 25 25 25 25 25 25	15"X15" PHASE 1 1 1 1 1 1 1 1 1 1 1 1 1	ALL REMARKS 1,2,3,4,6 1,2,3,5,7 ALL REMARKS ALL REMARKS ALL ALL </td
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			LO	UVER SCHEDULI	Ε		
MARK	MANUFACTURER	MODEL	DESCRIPTION	SERVICE	CFM	SIZE	FREE (SQ.
L-1	RUSKIN	ELF-375DX	HEAVY GAUGE ALUMINUM, 4" THICK, LOUVER	VHP-150 RETURN	5000	72"X48"	13.

			REGISTERS,	GRILLE	S, AND	DIFFUSERS		
MARK	MANUFACTURER	MODEL #	TYPE	GRILLE SIZE	DUCT INLET SIZE	DUCT BRANCH SIZE	MAX CFM	P.D.
E-5	TITUS	50F	ALUMINUM 1/2" EGG CRATE	24"X24"	6" DIA.	6" DIA.	100	0.05
E-6	TITUS	350FL	ALUMINUM 3/4" FIXED DEFLECTION RETURN GRILLE	36"X16"	36"X16"	WALL MOUNTED	1600	0.05
R-1	TITUS	50F	ALUMINUM 1/2" EGG CRATE	24"X24"	6" DIA.	6" DIA.	100	0.05
R-2	TITUS	50F	ALUMINUM 1/2" EGG CRATE	24"X24"	8" DIA.	8" DIA.	225	0.05
R-3	TITUS	50F	ALUMINUM 1/2" EGG CRATE	24"X24"	10" DIA.	10" DIA.	400	0.05
R-4	TITUS	50F	ALUMINUM 1/2" EGG CRATE	24"X24"	12" DIA.	12" DIA.	600	0.05
R-5	TITUS	50F	ALUMINUM 1/2" EGG CRATE	24"X24"	14" DIA.	14" DIA.	1000	0.05
R-6	TITUS	350FL	ALUMINUM 3/4" FIXED DEFLECTION RETURN GRILLE	36"X10"	36"X10"	DUCT MOUNTED	1200	0.06
S-1	TITUS	OMNI-AA	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	24"X24"	6" DIA.	6" DIA.	100	0.02
S-2	TITUS	OMNI-AA	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	24"X24"	8" DIA.	8" DIA.	225	0.05
S-3	TITUS	OMNI-AA	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	24"X24"	10" DIA.	10" DIA.	400	0.09
S-4	TITUS	OMNI-AA	ALUMINUM ADJUSTABLE SQUARE DIFFUSER	24"X24"	12" DIA.	12" DIA.	600	0.14
S-5	TITUS	DL	ALUMINUM DRUM LOUVER	20"X10"	20"X10"	DUCT MOUNTED	440	0.03
S-6	TITUS	300FL	ALUMINUM LOUVERED SUPPLY GRILLE	14"X10"	16"X12"	14"X10"	300	0.02
T-1	TITUS	50F	ALUMINUM 1/2" EGG CRATE	24"X24"	24"X24"	22"X12"	1500	0.05

	DRAWING IN	FORMATION		KCTCS - ECT	C CONSTRU	СТ
	A & E FILE NO	2142				
	DRAWING DATE	1.30.23			MECHANICAL	S
	DRAWN BY	ADM		ACCOUNT NO.	CO FINANC	
	CHECKED BY	BH	-	470-CA7Z-ET41-00	DEPARTMENT	
	PHASE	RTA				FF
	RTA DATE	1.30.23				
BENJAMIN						
					REVISIO OF REVISIONS)N I
			1	-		
CENSULA ENGLIN			2	-		
MINSSONAL ENGININ			3			
			4			

HISTORY	OF TH	HIS DRAWING	
DATE		DESCRIPTION OF REVISIONS	DATE
-	5		
-	6		
	7		
	8		

ATTACHMENT C.2

				EXPANS	ION TAN	IK SCHEDU	JLE	
							CAPACITY	
					PHYSICAL	TANK VOLUME	ACCEPTANCE VOLUME	
MARK	MANUFACTURER	MODEL #	TYPE	SERVICE	SIZE	(GALS)	(GALS)	
ET-1	TACO	CA-90	VERTICAL	GEOTHERMAL	20"X20"X32"	23.0	23.00	
REMARKS								

SECURE ON 4" TALL CONCRETE PAD.
 COORDINATE CHARGE PRESSURE WITH SYSTEM PRESSURE. SET AT 15 PSI UNLESS COORDINATION OR MANUFACTURER RECOMMENDATIONS DEEM AN APPROPRIATE CHARGE SETTING THAT VARIES FROM LISTED.
 ACCEPTABLE MANUFACTURERS ARE TACO, BELL&GOSSETTE, GRUNDFOS, AND ARMSTRONG.

			AIR	SEPARA	ATOR SCHED	ULE	
MARK	MANUFACTURER	MODEL #	SERVICE	DESIGN FLOW (GPM)	MAX FLOW (GPM)	INLET PIPE SIZE	WATER PRESS
AS-1	BELL&GOSSETT	RL-5F	GEOTHERMAL	400	530	6"	1.
REMARKS	·						

ACCEPTABLE MANUFACTURERS ARE BELL&GOSSETT, TACO, GRUNDFOS, AND ARMSTRONG.
 NO STRAINER.

		CHEN	IICAL PC	DT FEEDER	SCHEDULE			
MARK	MANUFACTURER	MODEL	FILTER	MAX PSI	CAPACITY (GAL)	SIZE (HXD)	REMARKS	
CF-1	NEPTUNE	DBF-5HF	P NONE	300	5.0	30"X10"	ALL	
MARKS								
	N 4" TALL CONCRETE BLE MANUFACTURERS		TUNE, HARMSC	O, LACO, AND J.L. WIN	IGERT.			
		AWING INF	ORMATION 2142	KCTCS - EC		ON-SITE TRAI	NING CENTER	R - PHASE 2
	A & E			KCTCS - EC		LENDALE, KY	NING CENTER	
	A & E DRAWI	FILE NO	2142	KCTCS - EC	GI MECHANICAL SCI COMMO FINANCE AN	LENDALE, KY HEDULES NWEALTH OF KENTL D ADMINISTRATION	ICKY CABINET	
	A & E DRAWI DRA CHEC	FILE NO ING DATE WN BY CKED BY	2142 1.30.23 ADM BH		GI MECHANICAL SCI COMMO FINANCE AN DEPARTMENT FOR DIVISION OF ENGINE	LENDALE, KY HEDULES NWEALTH OF KENTL D ADMINISTRATION FACILITIES AND SUF ERING & CONTRACT	ICKY CABINET PORT SERVICES ADMINISTRATION	DRAWING NC
	A & E DRAWI DRA CHEC PH	FILE NO ING DATE WN BY CKED BY IASE	2142 1.30.23 ADM BH RTA	ACCOUNT NO.	GI MECHANICAL SCI COMMO FINANCE AN DEPARTMENT FOR DIVISION OF ENGINE	LENDALE, KY HEDULES NWEALTH OF KENTU D ADMINISTRATION FACILITIES AND SUF	ICKY CABINET PORT SERVICES ADMINISTRATION	drawing NC
AFE BENL	A & E DRAWI DRA DRA DRA RTA	FILE NO ING DATE WN BY CKED BY	2142 1.30.23 ADM BH	ACCOUNT NO.	GI MECHANICAL SCI COMMO FINANCE AN DEPARTMENT FOR DIVISION OF ENGINE FRA	LENDALE, KY HEDULES NWEALTH OF KENTL D ADMINISTRATION FACILITIES AND SUF ERING & CONTRACT	ICKY CABINET PORT SERVICES ADMINISTRATION	DRAWING NC

		CHEN		OT FEEDER	R SCHEDU	LE				
MARK	MANUFACTURER	MODEL	- FILTER	R MAX PSI	CAPACITY (GA	AL) S	SIZE (HXD)	REMARKS		
CF-1	NEPTUNE	DBF-5H	P NONE	300	5.0		30"X10"	ALL		
EMARKS										
. ACCEPTA	BLE MANUFACTUREF	KS ARE NEP	TUNE, HARMSC	O, LACO, AND J.L. WI	NGERT.					
	A & I	PRAWING INF E FILE NO WING DATE	EORMATION 2142 1.30.23	KCTCS - EC	CTC CONSTRU	GLEND	ALE, KY	NING CENTEI	R - PHAS	
	A & I DRAV	E FILE NO WING DATE	2142 1.30.23	KCTCS - EC	MECHANICA	GLEND/ L SCHEDU	ALE, KY LES			
	A & I DRAV	E FILE NO	2142	KCTCS - EC	MECHANICA C [.] FINANO	GLENDA L SCHEDUI OMMONWEAL CE AND ADM	ALE, KY LES LTH OF KENT	UCKY I CABINET		IG NO.
	A & I DRAV DR CHE	E FILE NO WING DATE RAWN BY ECKED BY	2142 1.30.23 ADM BH		MECHANICA C FINANG DEPARTMENT	GLENDA L SCHEDUI OMMONWEAL CE AND ADM FOR FACILI NGINEERING	ALE, KY LES LTH OF KENT MINISTRATION TIES AND SU & CONTRAC	UCKY I CABINET PPORT SERVICES T ADMINISTRATION	DRAWIN	IG NO.
	A & I DRAV DR CHE	E FILE NO WING DATE RAWN BY ECKED BY PHASE	2142 1.30.23 ADM BH RTA	ACCOUNT NO.	MECHANICA C FINANG DEPARTMENT	GLENDA L SCHEDUI OMMONWEAL CE AND ADM FOR FACILI NGINEERING	ALE, KY LES LTH OF KENT MINISTRATION TIES AND SU	UCKY I CABINET PPORT SERVICES T ADMINISTRATION	drawin M9	IG NO.
	A & I DRAV DR DR CHE F RT	E FILE NO WING DATE RAWN BY ECKED BY	2142 1.30.23 ADM BH	ACCOUNT NO. 470-CA7Z-ET41-00	MECHANICA C FINANG DEPARTMENT DIVISION OF E	GLENDA L SCHEDUI OMMONWEAL CE AND ADM FOR FACILI NGINEERING FRANKFOR 212 N Lexing p. 850	ALE, KY LES LTH OF KENT MINISTRATION TIES AND SU & CONTRAC T, KENTUCK North Upper North Upper ton, Kentuc 9.252.6664	UCKY I CABINET PPORT SERVICES T ADMINISTRATION Y Street ky 40507	DRAWIN M9 AS BUILT	IG NO. 1 Γ DATE
	A & I DRAV DR DR CHE F RT	E FILE NO WING DATE RAWN BY ECKED BY PHASE	2142 1.30.23 ADM BH RTA	ACCOUNT NO. 470-CA7Z-ET41-00	MECHANICA CI FINANG DEPARTMENT DIVISION OF E	GLENDA L SCHEDUI OMMONWEAL CE AND ADM FOR FACILI NGINEERING FRANKFOR 212 N Lexing p. 850	ALE, KY LES LTH OF KENT MINISTRATION TIES AND SU & CONTRAC RT, KENTUCK	UCKY I CABINET PPORT SERVICES T ADMINISTRATION Y Street ky 40507	drawin M9	IG NO.
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BENJ BO CATE BENJ DA DA DA DA DA DA DA DA DA DA DA DA DA		E FILE NO WING DATE RAWN BY ECKED BY PHASE	2142 1.30.23 ADM BH RTA	АССОИNT NO. 470-СА7Z-ЕТ41-00	MECHANICA CI FINANO DEPARTMENT DIVISION OF E T E C T S T E C T S	GLENDA L SCHEDUI OMMONWEAL CE AND ADM FOR FACILI NGINEERING FRANKFOR 212 N Lexing p. 850 www.c	ALE, KY LES TH OF KENT MINISTRATION TIES AND SU & CONTRAC RT, KENTUCK North Upper ton, Kentuc 9.252.6664 commiarchited	UCKY I CABINET PPORT SERVICES T ADMINISTRATION Y Street ky 40507 tots.com	DRAWIN M9 AS BUILT DECA L	IG NO.

PRESSURE DROP (FT	
HD)	REMARKS
1.00	ALL

AIR CHARGE PRESSURE (PSI) 15.00 ALL