

CCK-2687-23 ADDENDUM# 5 03/07/2023

ATTENTION: This is not an order. Read all instructions, terms and conditions carefully.

IMPORTANT: BID AND ADDENDUM MUST BE RECEIVED BY: 03/09/2023 @ 3:00 P.M. LEXINGTON, KY TIME

Bidder must acknowledge receipt of this and any addendum as stated in the Invitation for Bids.

- 1. Please refer to and incorporate in your offer, the attached drawings from CMTA.
- 2. If you have any questions, please contact Ken Scott at the number below or at <u>cckbidquestions@uky.edu</u>.

OFFICIAL APPROVAL UNIVERSITY OF KENTUCKY

SIGNATURE

Ken Scott 03/07/2023

Ken Scott / (859) 257-9102

Typed or Printed Name



H46 STEAM PIPING REPLACEMENT

UNIVERSITY OF KENTUCKY 1/18/2023 UK/CMTA JOB #: 11130/XHSR22 UK PROJECT MANAGER: TOMI ANTIC CMTA PROJECT MANAGER: SCOTT JOHNSON 800 ROSE STREET, LEXINGTON, KY 40536 BID DOCUMENTS

Sheet List							
Sheet Number	Sheet Name						
G1.0	COVER SHEET						
M1.0	MECHANICAL LEGEND						
M2.0	H46 MECHANICAL PIPING DEMOLITION AND NEW WORK PLANS - PHASE I BASE BID						
M2.1	MECHANICAL PIPING DEMOLITION AND NEW WORK PLANS - PHASE II BASE BID						
M2.2	H46 MECHANICAL PIPING DEMOLITION AND NEW WORK PLANS - PHASE III ALTERNATE #1						
M2.3	H46 MECHANICAL PIPING DEMOLITION AND NEW WORK PLANS - PHASE IV ALTERNATE #2						
M2.4	H46 MECHANICAL PIPING DEMOLITION AND NEW WORK PLANS - PHASE V ALTERNATE #3						
M3.0	MECHANICAL DETAILS						



140.	D	Lockii Holy.
	ADDEND	JM #5
		H46 STEAM
ALE:	AS NOTED	BLDG. NAME: CHANDLER MEDICA
ATE:	08-31-2022	BLDG #

MECHANICAL GENERAL NOTES

- A THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS.
- B ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW. C COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
- D OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.) E ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE
- SAFETY MEASURES. COORDINATE ALL OUTAGES WITH DAVID MOODY. F LOCATIONS OF PIPING ARE APPROXIMATE AND SUBJECT TO MINOR
- ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
- G ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY. H COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER
- TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT. I INSTALL ALL PIPING IN STRICT ACCORDANCE WITH MANUFACTURER'S
- INSTALLATION INSTRUCTION. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT. J THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT
- APPURTENANCES, ETC., THAT CONFLICT WITH NEW WORK.

MECHANICAL DEMOLITION NOTES

- A 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.
- B ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
- C HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (UON) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN. D ALL OUTAGES SHALL BE SCHEDULED THROUGH THE UK CPMD PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.

MECHANICAL HAZARDOUS MATERIALS NOTES

- A THE CONTRACTOR IT IS HEREBY ADVISED THAT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.
- B CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.
- C IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, 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 IMMEDIATELY.
- D THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, 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 SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.
- E THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.

MECHANICAL PHASING NOTES

A THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. 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 PER THE CONTRACT DOCUMENTS.

ABBREVIATIONS		ABBREVIA	TIONS (CONTINUED)	ABBREVIATIONS (CONTINUED)				
AC	ALTERNATING CURRENT	FD	FIRE DAMPER	NO	NORMALLY OPEN OR NUMBER			
ADJ	ADJUSTABLE	FL	FLOOR	NTS	NOT TO SCALE			
AFF	ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPS	OC	ON CENTER			
AFR	ABOVE FINISHED ROOF	FOB	FLAT ON BOTTOM	OD	OUTSIDE DI (-AMETER, -MENSION)			
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	FOT	FLAT ON TOP	CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED			
AHJ	AUTHORITY HAVING JURISDICTION	FPC	FIRE PROTECTION CONTRACTOR	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED			
AMP	AMPERE (AMP, AMPS)	FPM	FEET PER MINUTE	OFOI	OWNER FURNISHED, OWNER INSTALLED			
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	FPS	FEET PER SECOND	OR	OPEN RECEPTACLE			
APD	AIR PRESSURE DROP	FT	FEET OR FOOT	OZ	OUNCE (-S)			
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS	FUT	FUTURE	PC	PLUMBING CONTRACTOR			
ATU	AIR TERMINAL UNIT	FV	FACE VELOCITY	PD	PRESSURE DROP			
AVG	AVERAGE	GA	GAGE/GAUGE	PH	PHASE [ELECTRICAL]			
BAS	BUILDING AUTOMATION SYSTEM	GAL	GALLON (-S)	PLBG	PLUMBING			
BHP	BREAK HORSEPOWER	GC	GENERAL CONTRACTOR	PPM	PARTS PER MILLION			
BTU	BRITISH THERMAL UNIT	GPD	GALLONS PER DAY	PRS	PRESSURE REDUCING STATION			
САР	CAPACITY	GPH	GALLONS PER HOUR	PRV	PRESSURE REDUCING VALVE (STEAM, WATER, GAS)			
CAV	CONSTANT AIR VOLUME	GPM	GALLONS PER MINUTE	PSF	POUNDS PER SQUARE FOOT			
CD	CONDENSATE DRAIN	GR	GRAINS	PSI	POUNDS PER SQUARE INCH			
CFM	CUBIC FEET PER MINUTE	н	HUMIDITY	PSIG	PPSI GAUGE			
C.I.	CAST IRON	HD	HEAD	RH	RELATIVE HUMIDITY [%]			
CLG	CEILING	HG	MERCURY	RLA	RUNNING LOAD AMPS			
CLR	CLEAR	HORIZ	HORIZONTAL	RPM	REVOLUTIONS PER MINUTE			
CO	CARBON MONOXIDE	HP	H (-ORSEPOWER, -EAT PUMP)	SD	SMOKE DAMPER			
CO2	CARBON DIOXIDE	HR	HOUR (-S)	SP	STATIC PRESSURE			
COND	CONDENS (-ER, -ING, -ATION, -ATE)	HVAC	HEATING, VENTILATING, & AIR-CONDITIONING	SQ	SQUARE			
CONT	CONTINU (-ED, -OUS)	Hz	HERTZ	SQ FT	SQUARE FEET OR FOOT			
CU FT	CUBIC FEET	ID	I (-DENTIFICATION, -NSIDE DIAMETER, -NSIDE DIMENSION)	SQ IN	SQUARE INCH OR INCHES			
CU IN	CUBIC INCHES	IN	INCH (-ES)	TAB	TESTING AND BALANCING			
CV	VALVE FLOW COEFFICIENT	INSUL	INSULAT (-ED, -ION)	TBD	TO BE DETERMINED			
dB	DECIBEL	INT	INTER (-IOR, -ERVAL)	TE	TOP ELEVATION			
DB	DRY BULB	IPS	IRON PIPE SIZE	TEMP	TEMPERATURE			
DBT	DRY BULB TEMPERATURE	kW	KILOWATT	TSP	TOTAL STATIC PRESSURE			
DC	DIRECT CURRENT	kWh	KILOWATT HOUR	TYP	TYPICAL			
DD	DUCT SMOKE DETECTOR	LAT	LEAVING AIR TEMPERATURE	UNO	UNLESS NOTED OTHERWISE			
DDC	DIRECT DIGITAL CONTROLS	LBS	POUNDS	V	VOLT (-AGE, -S)			
DEG	DEGREE (-S)	LF	LINEAR FEET/FOOT	VAR	VARI (-ABLE, -IES)			
DIA	DIAMETER (-S)	LRA	LOCKED ROTOR AMPS	VAV	VARIABLE AIR VOLUME			
DN	DOWN	LWT	LEAVING WATER TEMPERATURE	VEL	VELOCITY			
DWG	DRAWING	MAX	MAXIMUM	VFD	VARIABLE FEQUENCY DRIVE			
EAT	ENTERING AIR TEMPERATURE	MBH	BTU PER HOUR [THOUSANDS]	W	WATT (-AGE, -S)			
EC	ELECTRICAL CONTRACTOR	MCA	MINIMUM CIRCUIT AMPS	WB	WET BULB			
ELEV	ELEVA (-TION, -TOR)	MFG	MANUFACTURER	WBT	WET BULB TEMPERATURE			
ENGR	ENGINEER	MIN	MIN (-IMUM, -UTE)	WPD	WATER PRESSURE DROP			
EO	EQUAL	MISC	MISCELLANEOUS	WT	WEIGHT			
 	EXTERNAL STATIC PRESSURE	MOCP	MAXIMUM OVERCURRENT PROTECTION [AMPS]		WITH			
 ETR	EXISTING TO REMAIN	MTG	MOUNTING		WITHOUT			
 FVΔP	EVAPORAT (-EINGFDORION)	N/Δ	NOT APPLICABLE		PERCENT			
	ENTERING WATER TEMPERATURE	NC		ΛD	DIFFERENTIAL PRESSURF			
FXP	EXPANSION	NFRR		ΛT				
FXT	EXTERIOR	NIC	NOT IN CONTRACT	t	CENTERLINE			
 ΕΔ	FRFF ARFA			۲. ۲				

GENERAL S	SYMBOLS
(#)	TAGGED NOTE DESIGNATOR
\bigcirc	REVISION TRIANGLE
ROOM NAME RM #	ROOM TAG
TAG XXX-# INSTANCE XXXX	EQUIPMENT TAG
\bullet	POINT OF CONNECTION / CONNECT TO EXISTING
\$	POINT OF DEMOLITION

HVAC LEGE	ND
XX	SUPPLY AIR DIFFUSER
ØØ	RETURN AIR DIFFUSER
X	EXHAUST AIR DIFFUSER
	TRANSFER AIR DIFFUSER W/ SOUND ATTENUATING BOOT
	SIDEWALL DIFFUSER/GRILLE
X	SIDEWALL DIFFUSER/GRILLE
TAG (XXX) AIRFLOW #,###	AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER,LOUVER)
##x##	RECTANGULAR DUCT
#ø	ROUND/SPIRAL DUCT
##/##	FLAT OVAL DUCT
SA	SUPPLY AIR DUCT
RA	RETURN AIR DUCT
EA	EXHAUST AIR DUCT
OA	OUTSIDE AIR DUCT
ТА	TRANSFER AIR DUCT
CAE	COMBUSTION AIR EXHAUST DUCT
CAI	COMBUSTION AIR INTAKE DUCT
SA SA	SA AIR DUCT TURNING UP
× SA	SA AIR DUCT TURNING DOWN
RA	RA AIR DUCT TURNING UP
RA	RA AIR DUCT TURNING DOWN
EA	EA AIR DUCT TURNING UP
EA	EA AIR DUCT TURNING DOWN
E(XXX)	EXISTING DUCT - (XXX) DENOTES SYSTEM
<u>[_D(XXX)</u>]	DUCT TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
A(XXX)	DUCT TO BE ABANDONED IN PLACE - (XXX) DENOTES SYSTEM
ತ್ರ್ಯ	MITERED ELBOW WITH TURNING VANES
++++++	FLEXIBLE DUCT
()	THERMOSTAT
Ţş	TEMPERATURE SENSOR
H	HUMIDITY SENSOR
©	CARBON DIOXIDE SENSOR
0	TEMPERATURE & CARBON DIOXIDE SENSOR
VERT. HORIZ.	MANUAL BALANCING/VOLUME DAMPER
VERT. HORIZ.	MOTORIZED DAMPER
VERT. HORIZ.	FIRE DAMPER
VERT. HORIZ.	SMOKE DAMPER
VERT. HORIZ.	COMBINATION FIRE & SMOKE DAMPER

O	PIPE ELBOW TURNING UP
	PIPE ELBOW TURNING DOWN
	PIPE TEE; CONNECTION ON TOP
	PIPE TEE; CONNECTION ON BOTTOM
	PIPE CAP
BFW	BOILER FEEDWATER
CAI/E	COMBUSTION AIR INTAKE/EXHAUST
—CBS/R—	CHILLED BEAM SUPPLY/RETURN
CD	CONDENSATE DRAIN
—CHWS/R—	CHILLED WATER SUPPLY/RETURN
CST	CLEAN STEAM PIPING
—CWS/R—	CONDENSER WATER SUPPLY/RETURN
—DTS/R—	DUAL TEMP. WATER SUPPLY/RETURN
GS/R	GEOTHERMAL WATER SUPPLY/RETURN
HPC	HIGH PRESSURE STEAM CONDENSATE
—HPS(#)—	HIGH PRESSURE STEAM; (#) DENOTES PRESSURE
—HPS/R—	HEAT PUMP WATER SUPPLY/RETURN
—HRS/R—	HEAT RECOVERY SUPPLY/RETURN PIPING
—HWS/R—	HEATING WATER SUPPLY/RETURN
LPC	LOW PRESSURE STEAM CONDENSATE
—LPS(#)—	LOW PRESSURE STEAM; (#) DENOTES PRESSURE
MPC	MEDIUM PRESSURE STEAM RETURN
—MPS(#)—	MEDIUM PRESSURE STEAM; (#) DENOTES PRESSURE
SPD	STEAM CONDENSATE PUMPED DISCHARGE
SVT	STEAM VENT PIPING
D(XXX)	PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM
—E(XXX)—	EXISTING PIPING - (XXX) DENOTES SYSTEM
—E(XXX)— —A(XXX)—	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM
—E(XXX)— —A(XXX)—	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE
—E(XXX)— —A(XXX)— —————————————————————————————————	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE
E(XXX) A(XXX) 	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV)
—E(XXX)— —A(XXX)— —☆ — @ _ 4	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV)
E(XXX) A(XXX) 	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV)
E(XXX) A(XXX) 	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE
E(XXX) A(XXX) A(XXX) 	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE
E(XXX) A(XXX) A(XXX) 	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE (TDV)
E(XXX) A(XXX) A(XXX) 	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE TRIPLE DUTY VALVE (TDV) STRAINER
E(XXX) A(XXX) A(XXX) 	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE TRIPLE DUTY VALVE (TDV) STRAINER MANUAL ISOLATION VALVE
	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE TRIPLE DUTY VALVE (TDV) STRAINER MANUAL ISOLATION VALVE GLOBE VALVE
	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE TRIPLE DUTY VALVE (TDV) STRAINER MANUAL ISOLATION VALVE GLOBE VALVE
	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE TRIPLE DUTY VALVE (TDV) STRAINER MANUAL ISOLATION VALVE GLOBE VALVE PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.)
	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE TRIPLE DUTY VALVE (TDV) STRAINER MANUAL ISOLATION VALVE GLOBE VALVE OS&Y (GATE) VALVE PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.) AUTO-FLOW CONTROL VALVE
	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE TRIPLE DUTY VALVE (TDV) STRAINER MANUAL ISOLATION VALVE GLOBE VALVE OS&Y (GATE) VALVE PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.) AUTO-FLOW CONTROL VALVE
-E(XXX) - A(XXX) -	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE TRIPLE DUTY VALVE (TDV) STRAINER MANUAL ISOLATION VALVE GLOBE VALVE OS&Y (GATE) VALVE PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.) AUTO-FLOW CONTROL VALVE CHECK VALVE
	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE TRIPLE DUTY VALVE (TDV) STRAINER MANUAL ISOLATION VALVE GLOBE VALVE OS&Y (GATE) VALVE PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.) AUTO-FLOW CONTROL VALVE CHECK VALVE DOUBLE CHECK VALVE ASSEMBLY FLEXIBLE PIPE CONNECTION
	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE TRIPLE DUTY VALVE (TDV) STRAINER MANUAL ISOLATION VALVE GLOBE VALVE OS&Y (GATE) VALVE PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.) AUTO-FLOW CONTROL VALVE CHECK VALVE DOUBLE CHECK VALVE ASSEMBLY FLEXIBLE PIPE CONNECTION FLOW METER (VENTURI)
	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE TRIPLE DUTY VALVE (TDV) STRAINER MANUAL ISOLATION VALVE GLOBE VALVE OS&Y (GATE) VALVE PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.) AUTO-FLOW CONTROL VALVE CHECK VALVE DOUBLE CHECK VALVE ASSEMBLY FLEXIBLE PIPE CONNECTION FLOW METER (VENTURI) PIPING UNION
-E(XXX) - A(XXX) -	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE TRIPLE DUTY VALVE (TDV) STRAINER MANUAL ISOLATION VALVE GLOBE VALVE OS&Y (GATE) VALVE PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.) AUTO-FLOW CONTROL VALVE CHECK VALVE DOUBLE CHECK VALVE ASSEMBLY FLEXIBLE PIPE CONNECTION FLOW METER (VENTURI) PIPING UNION FLOW SWITCH
	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE TRIPLE DUTY VALVE (TDV) STRAINER MANUAL ISOLATION VALVE GLOBE VALVE OS&Y (GATE) VALVE PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.) AUTO-FLOW CONTROL VALVE CHECK VALVE DOUBLE CHECK VALVE ASSEMBLY FLEXIBLE PIPE CONNECTION FLOW METER (VENTURI) PIPING UNION FLOW SWITCH PRESSURE SWTICH
	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE TRIPLE DUTY VALVE (TDV) STRAINER MANUAL ISOLATION VALVE GLOBE VALVE OS&Y (GATE) VALVE PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.) AUTO-FLOW CONTROL VALVE CHECK VALVE DOUBLE CHECK VALVE ASSEMBLY FLEXIBLE PIPE CONNECTION FLOW METER (VENTURI) PIPING UNION FLOW SWITCH PRESSURE SWTICH
- E(XXX) - $- A(XXX) - $ $- A(XX) - $ $- A$	EXISTING PIPING - (XXX) DENOTES SYSTEM ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE AUTOMATIC AIR VENT (AAV) MANUAL AIR VENT (MAV) MANUAL BALANCING VALVE (BV) BALL VALVE BUTTERFLY VALVE TRIPLE DUTY VALVE (TDV) STRAINER MANUAL ISOLATION VALVE GLOBE VALVE OS&Y (GATE) VALVE PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.) AUTO-FLOW CONTROL VALVE CHECK VALVE DOUBLE CHECK VALVE ASSEMBLY FLEXIBLE PIPE CONNECTION FLOW METER (VENTURI) PIPING UNION FLOW SWITCH PRESSURE SWTICH TAMPER SWITCH THERMOMETER

MECHANICAL PIPING LEGEND

APPLICABLE BUILDING CODES											
APPLICABLE BUILDING CODES	DOCUMENT	YEAR									
ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	ANSI A117.1	2009									
FIRE SPRINKLER CODE	NFPA 13	2013									
INTERNATIONAL BUILDING CODE (IBC)	STATE EDITION	2015									
INTERNATIONAL ENERGY CONSERVATION CODE (IECC) OR ASHRAE 90.1	STATE EDITION	2012 <u>OR </u> 201									
INTERNATIONAL FIRE CODE (IFC)	STATE EDITION	2015									
INTERNATIONAL FUEL GAS CODE (IFGC)	STATE EDITION	2015									
INTERNATIONAL MECHANICAL CODE (IMC)	STATE EDITION	2015									
KENTUCKY PLUMBING CODE (KPC)	STATE EDITION	2017									
INTERNATIONAL EXISTING BUILDING CODE (IEBC)	STATE EDITION	2009									
NATIONAL ELECTRIC CODE (NEC)	NFPA 70	2017									
NATIONAL FIRE ALARM & SIGNALING CODE	NFPA 72	2013									
UNIFORM STATEWIDE BUILDING CODE		2018									



		1010100
NO:	D	ESCRIPTION:
1	ADDEND	JM #5
		H46 STEAM
CALE:	AS NOTED	BLDG. NAME: CHANDLER MEDICA
DATE:	08-31-2022	BLDG #











 AS NOTED
 BLDG. NAME: CHANDLER MEDICAL CENTER
 DRAWN BY: PROJ. MGR.:
 MDF

 08-31-2022
 BLDG #
 0293
 PROJ. MGR.:
 RSJ
 M2.1







-3" E(MPS)

10" E(LPS)

- TO PH902

- TO PH902

ROBERT S. JOHNSON 27666 JOHNSON	
REVISIONS	
DESCRIPTION	

	ADDEND	JM #5	3/3/2	2023					
						UN] Facil	IVEI ities N	RSI7 Mana	[Y .gei
		H46 STEAM PIPI	NG R	EPLACE	MENT				
ALE:	AS NOTED	BLDG. NAME: CHANDLER MEDICAL CE	NTER	DRAWN B	Y:	MDF	PROJ #		200
ATE:	08-31-2022	BLDG #	0293	PROJ. MGF	l.:	RSJ	11130	<u>"</u> \U3	πZ,

{##**}** TAGGED NOTES H4 PROVIDE NEW STEAM PIPING AND PRESSURE REDUCING STATION. REFER TO DETAIL FOR PRV DETAILS. REPLACE ALL END OF MAIN CONDENSATE PIPING, TRAPS AND RELATED COMPONENTS. H6 NEW HIGH PRESSURE STEAM PIPE SHALL BE INSULATED AS FOLLOWS: UPT0 1-1/2" PIPE SIZE - 2" THICK, 2" THRU 4" PIPE SIZE -3" THICK AND 5" OR LARGER PIPE SIZE 3-1/2" THICK. PROVIDE NEW INSULATION SADDLES AT ALL LOCATIONS OF EXISTING HANGERS. INSULATION SHALL BE OWENS-CORNING MODEAL 25ASJ/SSL OR EQUAL FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. THE INSULATION SHALL BE HEAVY DENSITY PIPE INSULATION WITH A K FACTOR OF .23 AT 75F MEAN TEMPERATURE. THE INSULATION SHALL BE WRAPPED WITH A VAPOR BARRIER JACKET. THE JACKET SHALL HAVE AN INSIDE FOIL SURFACE WITH SELF SEALING LAP AND A WATER VAPOR PERMABILITY OF 0.02 PERM/INCH. ALL CIRCUMFERENTIAL JOINTS SHALL BE VAPOR SEALED WITH BUTT STRIPS. ALL INSULATION SHALL BE INSTALLED IN STRICT ACCORADANCE WITH MANUFACTURER'S REQUIREMENTS. H8 NEW LOW PRESSURE STEAM PIPE SHALL BE INSULATED AS

FOLLOWS: UPT0 1-1/2" PIPE SIZE - 1-1/2" THICK, 2" AND LARGER PIPE SIZE - 3" THICK. PROVIDE NEW INSULATION SADDLES AT ALL LOCATIONS OF EXISTING HANGERS. INSULATION SHALL BE OWENS-CORNING MODEAL 25ASJ/SSL OR EQUAL FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. THE INSULATION SHALL BE HEAVY DENSITY PIPE INSULATION WITH A K FACTOR OF .23 AT 75F MEAN TEMPERATURE. THE INSULATION SHALL BE WRAPPED WITH A VAPOR BARRIER JACKET. THE JACKET SHALL HAVE AN INSIDE FOIL SURFACE WITH SELF SEALING LAP AND A WATER VAPOR PERMABILITY OF 0.02 PERM/INCH. ALL CIRCUMFERENTIAL JOINTS SHALL BE VAPOR SEALED WITH BUTT STRIPS. ALL INSULATION SHALL BE INSTALLED IN STRICT ACCORADANCE WITH MANUFACTURER'S REQUIREMENTS.

> DATE: 3/3/2023 UNIVERSITY OF KENTUCKY Facilities Management - Medical Center PIPING REPLACEMENT

M2.2







H6 NEW HIGH PRESSURE STEAM PIPE SHALL BE INSULATED AS H8 NEW LOW PRESSURE STEAM PIPE SHALL BE INSULATED AS MD17 DEMOLISH COMPLETE EXISTING STEAM MAINS AND VALVES.

MOODY.



	KE	VISIONS
NO:	D	ESCRIPTION:
1	ADDEND	JM #5
		H46 STEAN
CALE:	AS NOTED	BLDG. NAME: CHANDLER MEDIC
ATE:	00.04.0000	BLDG #

<u>KEYPLAN</u>

TAGGED NOTES

H5 PROVIDE NEW STEAM PIPING AND VALVES. COORDINATE SUB-PHASES AND OUTAGES WITH DAVID MOODY.

> FOLLOWS: UPT0 1-1/2" PIPE SIZE - 2" THICK, 2" THRU 4" PIPE SIZE -3" THICK AND 5" OR LARGER PIPE SIZE 3-1/2" THICK. PROVIDE NEW INSULATION SADDLES AT ALL LOCATIONS OF EXISTING HANGERS. INSULATION SHALL BE OWENS-CORNING MODEAL 25ASJ/SSL OR EQUAL FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. THE INSULATION SHALL BE HEAVY DENSITY PIPE INSULATION WITH A K FACTOR OF .23 AT 75F MEAN TEMPERATURE. THE INSULATION SHALL BE WRAPPED WITH A VAPOR BARRIER JACKET. THE JACKET SHALL HAVE AN INSIDE FOIL SURFACE WITH SELF SEALING LAP AND A WATER VAPOR PERMABILITY OF 0.02 PERM/INCH. ALL CIRCUMFERENTIAL JOINTS SHALL BE VAPOR SEALED WITH BUTT STRIPS. ALL INSULATION SHALL BE INSTALLED IN STRICT ACCORADANCE WITH MANUFACTURER'S REQUIREMENTS.

FOLLOWS: UPT0 1-1/2" PIPE SIZE - 1-1/2" THICK, 2" AND LARGER PIPE SIZE - 3" THICK. PROVIDE NEW INSULATION SADDLES AT ALL LOCATIONS OF EXISTING HANGERS. INSULATION SHALL BE OWENS-CORNING MODEAL 25ASJ/SSL OR EQUAL FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. THE INSULATION SHALL BE HEAVY DENSITY PIPE INSULATION WITH A K FACTOR OF .23 AT 75F MEAN TEMPERATURE. THE INSULATION SHALL BE WRAPPED WITH A VAPOR BARRIER JACKET. THE JACKET SHALL HAVE AN INSIDE FOIL SURFACE WITH SELF SEALING LAP AND A WATER VAPOR PERMABILITY OF 0.02 PERM/INCH. ALL CIRCUMFERENTIAL JOINTS SHALL BE VAPOR SEALED WITH BUTT STRIPS. ALL INSULATION SHALL BE INSTALLED IN STRICT ACCORADANCE WITH MANUFACTURER'S REQUIREMENTS.

COORDINATE WITH PREVIOUS PHASES AND ENSURE ALL STEAM PIPING AND FITTING HAVE BEEN REPLACED NEW. COORDINATE OUTAGE LENGTHS AND SUB-PHASES AS REQUIRED WITH DAVID

> LK DATE: 3/3/202 UNIVERSITY OF KENTUCKY Facilities Management - Medical Center M PIPING REPLACEMENT DICAL CENTER
> DRAWN BY:
> PROJ. MGR.:
> 0293 M2.3 MDF RSJ



<u>KEYPLAN</u>

 AS NOTED
 BLDG. NAME: CHANDLER MEDICAL CENTER
 DRAWN BY: PROJ. MGR.:
 MDF

 08-31-2022
 BLDG #
 0293
 PROJ. MGR.:
 RSJ

(##)

H8 NEW LOW PRESSURE STEAM PIPE SHALL BE INSULATED AS FOLLOWS: UPT0 1-1/2" PIPE SIZE - 1-1/2" THICK, 2" AND LARGER PIPE SIZE - 3" THICK. PROVIDE NEW INSULATION SADDLES AT ALL LOCATIONS OF EXISTING HANGERS. INSULATION SHALL BE OWENS-CORNING MODEAL 25ASJ/SSL OR EQUAL FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. THE INSULATION SHALL BE HEAVY DENSITY PIPE INSULATION WITH A K FACTOR OF .23 AT 75F MEAN TEMPERATURE. THE INSULATION SHALL BE WRAPPED WITH A VAPOR BARRIER JACKET. THE JACKET SHALL HAVE AN INSIDE FOIL SURFACE WITH SELF SEALING LAP AND A WATER VAPOR PERMABILITY OF 0.02 PERM/INCH. ALL CIRCUMFERENTIAL JOINTS SHALL BE VAPOR SEALED WITH BUTT STRIPS. ALL INSULATION SHALL BE INSTALLED IN STRICT ACCORADANCE WITH MANUFACTURER'S REQUIREMENTS.

H9 NEW STEAM CONDENSATE PIPE SHALL BE INSULATED AS FOLLOWS: UPT0 1-1/2" PIPE SIZE - 1-1/2" THICK, 2" AND LARGER PIPE SIZE - 3" THICK. PROVIDE NEW INSULATION SADDLES AT ALL LOCATIONS OF EXISTING HANGERS. INSULATION SHALL BE OWENS-CORNING MODEAL 25ASJ/SSL OR EQUAL FIBERGLASS PIPE INSULATION WITH ALL SERVICE JACKET. THE INSULATION SHALL BE HEAVY DENSITY PIPE INSULATION WITH A K FACTOR OF .23 AT 75F MEAN TEMPERATURE. THE INSULATION SHALL BE WRAPPED WITH A VAPOR BARRIER JACKET. THE JACKET SHALL HAVE AN INSIDE FOIL SURFACE WITH SELF SEALING LAP AND A WATER VAPOR PERMABILITY OF 0.02 PERM/INCH. ALL CIRCUMFERENTIAL JOINTS SHALL BE VAPOR SEALED WITH BUTT STRIPS. ALL INSULATION SHALL BE INSTALLED IN STRICT ACCORADANCE WITH MANUFACTURER'S REQUIREMENTS.

MD16 DEMOLISH COMPLETE EXISTING STEAM PIPING AND STEAM

MD18 DEMOLISH COMPLETE EXISTING STEAM PIPING SERVING MEDICAL MD19 DEMOLISH COMPLETE EXISTING STEAM PIPING SERVING MEDICAL

EXTENT OF DEMOLITION WITH PREVIOUS PHASE. MD21 DEMOLISH COMPLETE EXISTING STEAM PIPING SERVING



UK DATE: 3/3/2023 UNIVERSITY OF KENTUCKY Facilities Management - Medical Center H46 STEAM PIPING REPLACEMENT

M2.4



PRESSURE REDUCING VALVE STATION - PRV 2 #1 - #4, #6 SCALE: NONE

	PRV	ENT	V	ALVE	А	V	ALVE	В	V	ALVE	С			F	PIPE	SIZES	6		
NC	D. LOCATION	PRES.	SIZE	#/HR	PRES.	SIZE	#/HR	PRES.	SIZE	#/HR	PRES.	A	B	С		E	F	G	H
1	H-46	160 PSI	1 1/2"	3750	14 PSI	1 1/2"	3750	13 PSI	-	-	-	3"	6"	2"	-	-	-	-	-
2	H-46	160 PSI	1 1/2"	4052	14 PSI	1 1/2"	4052	13 PSI	1 1/2"	4052	12 PSI	4"	6"	2 1/2"	-	-	-	-	-
3	H-46	160 PSI	1"	1580	60 PSI	-	-	-	-	-	-	2 1/2"	3"	1"	-	-	-	-	-
4	H-46	160 PSI	1"	1600	25 PSI	-	-	-	-	-	-	2 1/2"	4"	1"	-	-	-	-	-
6	H-46	160 PSI	1 1/2"	4160	7 PSI	1 1/2"	4160	6 PSI	1 1/2"	4160	6 PSI	5"	3"	4"	3"	6"	8"	8"	8"

STEAM PRESSURE REDUCING STATION 1 SCALE: NONE

G	
LOW PRESSURE STEAM	

















SYSTEM	A	B	С		E	F	SIZE	TRAP #/HR	NO.
H-5(1)	4"	2 1/2"	-	1 1/2"	-	2"	1"	281	2
(2)		2"	-	1 1/4"	-	1 1/2"	1 1/4"	395	2
H-6	6"	3"	4"	2"		3"	1 1/2"	1500	3
H-7(1)	6"	2 1/2"	3"	1 1/4"	2"	2"	1 1/4"	575	3
(2)		2 1/2"	3"	1 1/4"	2"	2"	1 1/4"	510	3
(3)		2"	3"	1 1/4"		2"	1 1/4"	460	3
H-8(1)	6"	2 1/2"	4"	1 1/2"	2"		1 1/4"	770	3
(2)		2 1/2"	3"	1 1/2"	2"	2"	1 1/4"	690	3
(3)		2 1/2"	3"	1 1/2"	2"	2"	1 1/4"	640	3
H-9(1)	6"	2 1/2"	-	1 1/2"	-	2"	1 1/4"	630	2
(2)		2 1/2"	-	1 1/4"	-	2"	1 1/4"	560	2
(3)		2"	-	1 1/4"	-	2"	1 1/4"	500	2

SYSTEM	A	B	С		E	F	SIZE	TRAP #/HR	NO.
H-5(1)	4"	2 1/2"	-	1 1/2"	-	2"	1"	281	2
(2)		2"	-	1 1/4"	-	1 1/2"	1 1/4"	395	2
H-6	6"	3"	4"	2"		3"	1 1/2"	1500	3
H-7(1)	6"	2 1/2"	3"	1 1/4"	2"	2"	1 1/4"	575	3
(2)		2 1/2"	3"	1 1/4"	2"	2"	1 1/4"	510	3
(3)		2"	3"	1 1/4"		2"	1 1/4"	460	3
H-8(1)	6"	2 1/2"	4"	1 1/2"	2"		1 1/4"	770	3
(2)		2 1/2"	3"	1 1/2"	2"	2"	1 1/4"	690	3
(3)		2 1/2"	3"	1 1/2"	2"	2"	1 1/4"	640	3
H-9(1)	6"	2 1/2"	-	1 1/2"	-	2"	1 1/4"	630	2
(2)		2 1/2"	-	1 1/4"	-	2"	1 1/4"	560	2
(3)		2"	-	1 1/4"	-	2"	1 1/4"	500	2



3 AIR HANDLER COIL COMPONENT SIZES

