

Office of the Purchasing Agent 2300 Bloomdale Road Suite 3160 McKinney, Texas 75071 www.collincountytx.gov

COLLIN COUNTY, TEXAS

ADDENDUM No. One (1) IFB No. 2020-346

INVITATION FOR BID

FOR

CONSTRUCTION, COLLIN COUNTY SHERIFF'S OFFICE COMPUTER ROOM AIR CONDITIONING REPLACEMENT

DATE: OCTOBER 1, 2020

NOTICE TO ALL PROSPECTIVE BIDDERS:

PLEASE MAKE THE FOLLOWING CHANGES TO THE INVITATION FOR BID:

ADD DOCUMENT: PRE-BID ATTENDEE LIST

DELETE DOCUMENT: SHEET MP0.0

REPLACE WITH: SHEET MP0.0 ADDENDUM #1

DELETE DOCUMENT: SHEET ME0.1

REPLACE WITH: SHEET ME0.1 ADDENDUM #1

DELETE DOCUMENT: SHEET ME2.1

REPLACE WITH: SHEET ME2.1 ADDENDUM #1

DELETE DOCUMENT: SHEET ME2.2

REPLACE WITH: SHEET ME2.2 ADDENDUM #1

ADD ATTRIBUTE: #24-ADDENDUM No. 1 ACKNOWLEDGEMENT

DELETE DOCUMENT: SECTION 004100-BID FORM

REPLACE WITH: SECTION 004100-BID FORM ADDENDUM 1

ALL OTHER TERMS AND CONDITIONS OF THE BID AND SPECIFICATIONS REMAIN THE SAME.

SINCERELY,

MICHELLE CHARNOSKI, CPPB

PURCHASING AGENT

JDG



IFB# 2020-346 MANDATORY PRE-BID CONFERENCE ATTENDEE LIST

Project:	Construction, Collin County Sheriff's Office Computer Room Air Conditioning Replacement	Meeting Date:	September 29, 2020 at 9:00 AM
Facilitator:	J. D. Griffin	Place/Room:	Sheriff's Office Lobby

Company/Entity	Name
Mart, Inc.	Pamela Marley
Mart, Inc.	Eddie Ortuno
Berger Engineering Co.	Lamar Avery
Berger Engineering Co.	David Matthews
Collin County	David Dooley
Collin County	J.D. Griffin
Collin County	Chris Havey



IFB# 2020-346 MANDATORY PRE-BID CONFERENCE ATTENDEE LIST

Project:	Construction, Collin County Sheriff's Office Computer Room Air Conditioning Replacement	Meeting Date:	September 29, 2020 at 10:30 AM
Facilitator:	J. D. Griffin	Place/Room:	Sheriff's Office Lobby

Company/Entity	Name
Denali CS	Craig Harbour
Denali CS	Chris Temple
Chrome Heating, Air, Plumbing	Aaron Williams
Chrome Heating, Air, Plumbing	Michael Olaleye
DMI Corp./Decker Mechanical	Kent Piety
Concord Commercial Services, Inc.	Gabriel Fortich
Collin County	David Dooley
Collin County	J.D. Griffin
Collin County	Chris Havey



IFB# 2020-346 MANDATORY PRE-BID CONFERENCE ATTENDEE LIST

Project:	Construction, Collin County Sheriff's Office Computer Room Air Conditioning Replacement	Meeting Date:	September 29, 2020 at 1:30 PM
Facilitator:	J. D. Griffin	Place/Room:	Sheriff's Office Lobby

Company/Entity	Name
Acumen Enterprises, Inc.	Shance Jackson
Acumen Enterprises, Inc.	Roger Oaks
Infinity Contractors	Frank Berinti
Weldon Contractors	Erin Carreno
Weldon Contractors	David Rangel
Collin County	David Dooley
Collin County	J.D. Griffin
Collin County	Chris Havey

10/1/2020

Ī	DUCTWORK LEGEND		Н\	/AC & I & FITT
_16X12	SHEET METAL DUCT	16"x12"	+	TEE
	DIRECTION OF FLOW	├	-101-	TEE, UP
	INTERNALLY INSULATED SHEET METAL		-121-	TEE, DOWN
=====	DUCT	16"x12" }		SINGLE SWE
	HIDDEN SHEET METAL DUCT	16"x12"		CROSS
	ROUND ELBOW DOWN (R/A SIMILAR)			LATERAL
	ROUND ELBOW UP (R/A SIMILAR)			45 DEGREE
	` '		+	90 DEGREE
1	RADIUS ELBOW (R=1.5 MIN.)		—-ю	90 DEGREE
	45 DEGREE ELBOW (R=1.5 MIN.)			90 DEGREE
—	SIZE OR SHAPE TRANSITION			CAP
	TURNING VANES (RECTANGULAR), SMOOTH RADIUS	<u></u>		SINGLE W.F
<u> </u>	FLEXIBLE DUCT CONN. W/DAMPER	L	<u> </u>	DOUBLE W.F
	BRANCH TAKE-OFF		<u></u>	SINGLE W.F
	WYE JUNCTION		<u> </u>	DOUBLE W.F
	SUPPLY DUCT SECTION UP			FLOOR DRA
×	SUPPLY DUCT SECTION DOWN	×	——→O CO	
	RETURN DUCT SECTION UP		0	FLOOR DRAIN
	RETURN DUCT SECTION DOWN		D.S.	DOWN SPOU
	EXHAUST DUCT SECTION UP		F.H.C. O V.T.R _	VENT THRU F
X	90 DEGREE S/A ELBOW DOWN		O.D. R.D.	ROOF DRAIN
	90 DEGREE S/A ELBOW UP			CHECK VALV
	90 DEGILLE SIA LEBOW OF			GLOBE VALVE
	90 DEGREE R/A ELBOW DOWN			BALANCING \ BUTTERFLY \
			——————————————————————————————————————	BALL VALVE SOLENOID VA
>	EXHAUST DUCT SECTION DOWN		— 	PLUG VALVE PRESSURE R
7	90 DEGREE R/A ELBOW UP			PRESSURE R
				CONTROL, 3 \
	RADIUS ELBOW (R=1.5 MIN.)			MOTORIZED FLOOR CON
	SQUARE ELBOW WITH DOUBLE WALL TURNING VANES		<u></u>	ANGLE GATI
	BRANCH TAKE-OFF WITH VANED EXTRACTOR	1, 4,		MANUALLY (AUTOMATIC
	SPIN-IN TAP WITH DAMPER			STRAINER & I
	TEE WITH SQUARE ELBOWS, TURNING		 → ⊢ or →	PRESSURE G UNION OR CC
	VANES & SPLITTER DAMPER SIDEWALL SUPPLY GRILLE OR			THERMOMET PRESSURE &
	REGISTER WITH AIR EXTRACTOR		(T)	THERMOSTAT HUMIDISTAT
<u> </u>	S/A GRILLE/REGISTER W/ ROUND NECK & FLEX CONNECTION. 4-WAY THROW (U.N.O.)		—	FLOW METER ANCHOR (PIP
	S/A GRILLE/REGISTER W/ SQUARE NECK. 4-WAY THROW (U.N.O.)		——————————————————————————————————————	PIPE GUIDE
→	R/A GRILLE OR REGISTER	∠ ←	Ŷ Ŷ	AUTOMATIC A
——————————————————————————————————————	VOLUME DAMPER	<u> </u>	<u>~</u>	HOSE BIBB
•	VOLOME DAMI LIX		—————————————————————————————————————	THERMOMET TEMPERATUR FLOW SWITC
→ BD	COUNTER WEIGHTED BACKDRAFT DAMPER	BD BD		PRESSURE S COMPRESSE
——	FIRE DAMPER	FD FD	——————————————————————————————————————	FLOAT AND T
— 	FIRE/SMOKE DAMPER (WITH SM. DET.)	FSD		PIPE SIZE RE
SD	SMOKE DAMPER (WITH SM. DET.)	→ SD	ALL SYMBOLS ON T	PIPE SIZE RE
<u>'</u> _ _M	MOTORIZED DAMPER	1 1 M		
	STATIC PRESSURE SENSOR	SP)		
——————————————————————————————————————	AIRFLOW MEASURE STATION	1 AF		
	AIRELOW IONIZED STATION			

Al

T/ H/ C

P

MEP ABBREVIATIONS

AMBIENT TEMPERATURE (F. DEGREE)
AMPERE

BUILDING MANAGEMENT SYSTEM

BAROMETRIC RELIEF DAMPER

BRITISH THERMAL UNIT

CUBIC FEET PER MINUTE

CHILLED WATER PUMP

COMPRESSOR

COOLING TOWER

CONDENSING UNIT

DEFLECTION
DEGREES FAHRENHEIT

DESIGN DEVELOPMENT

DISCONNECT SWITCH

DIMENSION
EXHAUST AIR
ENTERING DRY BULB

ENERGY MGMT. CONTROL SYSTEM
EXTERNAL STATIC PRESS. (IN. W.G.)
ENTERING WET BULB

ENTERING WATER TEMPERATURE

FREE AREA OPENING (SQ. FT

FRACTIONAL HORSE POWER

GROUND FAULT INTERRUPTER

HEAT, VENT AND AIR CONDITIONING

INSIDE DIAMETER OR DIMENSION

LEAVING WATER TEMPERATURE

MAX. OVER CURRENT PROTECTION

OWNERS AUTHORIZED REPRESENTATIVE

OUTSIDE DIAMETER
OWNER FURNISHED CONTRACTOR INSTALLED

FLOOR CLEAN OUT
FAN COIL UNIT

COIL FINS PER INCH.

FEET PER MINUTE

FOOT OR FEET

HORSE POWER

HOUR(S)

HEATING

HEATER

KILOWATT

MAXIMUM

MECHANICAL

MINIMUM

MANUFACTURER

NOT APPLICABLE

NECK DIMENSION

OUTSIDE AIR

ORIGINAL

PLUMBING

PRESSURF

RETURN AIR

REFERENCE

RETURN AIR GRILLE

SINGLE SPEED MOTOR

STAND ALONE DIGITAL CONTROLLER

SEASON ENERGY EFFICIENCY RATIO

TOTAL STATIC PRESSURE (IN. W.G.)
UNIT HEATER

UNLESS NOTED OTHERWISE

START/STOP/STATUS

STATIC PRESSURE

MOTOR STARTER

VARIABLE AIR VALVE

WATER GUAGE WET BULB

WALL CLEAN OU WEATHERPROOF

WATER PRESSURE DROP

WEATHERPROOF GF

TRANSFORMER

TEMPERATURE

SUPPLY AIR SUPPLY AIR GRILL

SENSIBLE

HEAT PUMP UNIT

HOT WATER PUMP
HEAT EXCHANGER

FREQUENCY (HERTZ)

KILOWATT HOUR
LEAVING AIR TEMPERATURE

MINIMUM CURRENT AMPS

MANUAL VOLUME DAMPER

NOT IN CONSTRUCTION

OPPOSED BLADE DAMPER

PRESSURE DROP (FT

POWERED MIXING BOX

1000 BTU PER HOUR

FEET PER SECOND

GALLONS PER MINUTE

EXHAUST FAN

ELECTRICAL

ELEVATION

CONDENSER WATER PUMP

CONSTRUCTION DOCUMENTS
CUBIC FEET PER HOUR

ALTERNATING CURRENT

ABOVE FINISHED GRADE

ABOVE GRADE AND GF

AS HIGH AS POSSIBLE
AIR HANDLING UNIT

ALTERNATE

APPROX. APPROXIMATELY

ARCH. ARCHITECTURAL

AVERAGE

CHEMICAL

DRY BULB

BELOW GRADE

AIR CONDITIONER

ABOVE FINISHED CEILI
ABOVE FINISHED FLOC

++~~

+Al

AD

+(P)

AIRFLOW IONIZER STATION

ACCESS DOOR

DUCT MOUNTED SMOKE DETECTOR

(TUBE SENSING TYPE)

THERMOSTAT OR TEMP SENSOR)/

ALL SYMBOLS ON THIS LIST ARE NOT NECESSARILY USED ON THIS PROJECT.

ASHRAE CO 2 DIFFERENTIAL

700 PPM ---- 15 CFM/PERSON

(C)₄ 500 PPM ---- 20 CFM/PERSON

(C)₂ 350 PPM ---- 30 CFM/PERSON

HUMIDISTAT/CARBON DIOXIDE SENSOR

OLS ON THIS LIST ARE NOT NECESSARILY USED ON THIS JOB.

HVAC & PLUMBING, VALVE

& FITTINGS SYMBOLS

TEE, DOWN

SINGLE SWEEP TEE

45 DEGREE ELBOW

90 DEGREE ELBOW

90 DEGREE ELBOW UP

90 DEGREE ELBOW DOWN

SINGLE W.F. LATERAL STUB

DOUBLE W.F. LATERAL STUB

SINGLE W.F. LAT. & TRAP

DOUBLE W.F. LAT & TRAP

→ ○ FLOOR CLEAN OUT

FLOOR DRAIN

ROOF DRAIN

CHECK VALVE

OS & Y VALVE

GLOBE VALVE

BUTTERFLY VALVE

SOLENOID VALVE

PRESSURE REDUCING VALVE

PRESSURE RELIEF VALVE

CONTROL, 2 WAY VALVE

CONTROL, 3 WAY VALVE

FLOOR CONTROL VALVE

ANGLE GATE VALVE

ANGLE GLOBE VALVE

FIRE HOSE CABINET

OVERFLOW ROOF DRAIN

GAS PRESSURE REDUCING VALVE

BALANCING VALVE (WITH PETE'S PLUG EITHER SIDE)

MOTORIZED ISOLATION VALVE (2-POSITION-24v)

MOTORIZED CONTROL VALVE (MODULATING-24v)

MANUALLY CALIBRATED BALANCING VALVE

PRESSURE & TEMPERATURE TAP (PETES PLUG)

AUTOMATIC FLOW CONTROL VALVE

STRAINER & BLOW OFF VALVE

UNION OR COMPANION FLANGES

PRESSURE GAUGE & COCK

THERMOMETER

ANCHOR (PIPE

FLOW SWITCH

EXPANSION JOIN

MANUAL AIR VENT

HOSE END DRAIN

AUTOMATIC AIR VENT

THERMOMETER & WEI

PRESSURE SENSOR

COMPRESSED AIR TAP

BUCKET STEAM TRAP

FLOAT AND THERM. TRAP

PIPE SIZE REDUCER (CONCENTRIC)

PIPE SIZE REDUCER (ECCENTRIC)

TEMPERATURE SENSOR

VENT THRU ROOF

FLOOR DRAIN RISER W/TRAP

	(ALL SYMBOLS MAY NOT APPE	EAR ON DRAWINGS	S.)
°	FLOW SWITCH	0	RISE UP ON PIPING
☐	POST INDICATOR VALVES (PIV) OPEN SCREW AND YOKE VALVE (OS&Y)		DROP IN PIPING TAMPER SWITCH FOR VALVES
A	FIRE DEPARTMENT CONNECTION UP AND DOWN SPRINKLER AT SAME LOCATION		PENDANT SPRINKLER OR RISE(SPRIG)
\bigcirc	UP SPRINKLER SYSTEM RISER		PENDANT SPRINKLER ON DROP SIDEWALL SPRINKLER
	HOSE VALVE (ANGLE VALVE)	7	

GENERAL HVAC NOTES:

- 1. WITHOUT PRIOR APPROVAL FROM ENGINEER AND OWNER, ALL MECHANICAL EQUIPMENT SHALL NOT BE OPERATED DURING CONSTRUCTION OF THE BUILDING PER MANUFACTURER RECOMMENDATIONS. MECHANICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY HEATING OR COOLING AS NEEDED TO CLIMATIZE THE BUILDING.
- 2. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED WITHIN FURRED CHASES OR ABOVE SUSPENDED
- 3. ALL DUCTWORK SIZES ARE PROVIDED IN CLEAR INSIDE AIRSTREAM DIMENSIONS. INCREASE DUCT SIZES TO ACCOMMODATE ANY INTERNAL INSULATION REQUIREMENTS (AS SPECIFIED). PROVIDE A MINIMUM OF 15 LINEAR FT. OF INTERNAL ACOUSTIC LINER ON SUPPLY AND RETURN AIR DUCTWORK FROM ANY FCU, AHU, AC, OR RTU (UNO). PROVIDE 8LF INTERNAL LINER FOR MIXING OR VAV
- 4. PROVIDE FLEXIBLE CONNECTIONS ON AT THE INTAKE AND DISCHARGE OF ALL MOTOR DRIVEN EQUIPMENT.
- 5. PROVIDE VIBRATION ISOLATORS FOR MOTOR-DRIVEN MECHANICAL
- 6. ALL FLEXIBLE DUCTWORK SHALL HAVE A MAXIMUM DEVELOPED LENGTH OF OF (5) FIVE FT.
- 7. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL CEILING MOUNTED M/E/P DEVICES INCLUDING BUT NOT LIMITED TO LIGHTS, DIFFUSERS, GRILLES ETC..
- 8. AIR DEVICE DUCT SIZES SHALL BE THE SAME SIZE AS SHOWN ON THE DRAWINGS UNLESS NOTED OTHERWISE. REFER TO THE SCHEDULES FOR THE CFM RANGES. PROVIDE A TRANSITION FROM THE NECK SIZE TO THE REQUIRED DUCT SIZE SHOWN.
- CONTRACTOR SHALL VERIFY THE EQUIPMENT CLEARANCE REQUIREMENTS WITH THE MANUFACTURER'S RECOMMENDATIONS. EXACT LOCATION OF SELECTED EQUIPMENT SHALL BE COORDINATED WITH THE STRUCTURE TO PROVIDE RECOMMENDED CLEARANCES FOR MAINTENANCE.
- 10. PROVIDE FIRE DAMPERS, FIRE/SMOKE DAMPERS AND FIRE STOP AS REQUIRED BY CODE AUTHORITIES FOR DUCT PENETRATIONS THROUGH FIRE OR SMOKE RATED WALL AND CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPES.
- 11. LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED MAINTENANCE ACCESS FOR ALL UNIT ACCESS PANELS, CONTROLS AND VALVING.
- 12. SMOKE DETECTORS SHALL BE FURNISHED BY THE FIRE ALARM CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MOUNTING THE SMOKE DETECTOR IN THE DUCTWORK AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. DETECTORS SHALL BE PROVIDED IN THE SUPPLY AND THE RETURN DUCTWORK (PRIOR TO MIXING WITH THE OUTSIDE AIR) FOR ANY AIR HANDLING UNIT SYSTEM 2000 CFM SUPPLY AIR AND ABOVE. THE DETECTOR SHALL BE HARDWIRED TO THE UNITS STARTER TO SHUT DOWN THE FAN UPON DETECTION OF PRODUCTS OF COMBUSTION AS WELL AS SEND A SUPERVISORY ALARM SIGNAL TO THE FIRE ALARM PANEL (IF PROVIDED - IF NOT PROVIDE VISUAL/ AUDIBLE ALARM IN A SUPERVISORY/ APPROVED LOCATION). FOR VAV SYSTEMS THE BMS SHALL DISABLE ASSOCIATED MIXING BOX FANS UPON DETECTION OF SMOKE AT EITHER OF THE AHU'S SMOKE DETECTORS. ENABLE MIXING BOX
- 13. FINISH ALL EXPOSED TO VIEW DUCTWORK AND WALL LOUVERS PER ARCHITECTS RECOMMENDATIONS. ALL EXPOSED ROUND DUCT SHALL BE INTERNALLY SEALED AND MANUFACTURED FROM SPIRAL WOUND PAINT GRIP STEEL.

FANS UPON SMOKE SIGNAL CLEAR.

- 14. ALL FLOOR BRANCHES OF PIPE RISERS SHALL BE PROVIDED WITH SHUT OFF VALVES AND DRAIN CONNECTION.
- 15. UNLESS OTHERWISE SHOWN, LOCATE ALL ROOM THERMOSTATS, HUMIDISTAT AND CO2 SENSORS 4'-0" (CENTERLINE) ABOVE FINISHED FLOOR. NOTIFY THE ARCHITECT/ ENGINEER OF ANY ROOMS WHERE THE ABOVE LOCATION CAN NOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON PROPER LOCATION.
- 16. DUCTWORK AND ITS CONSTRUCTION WILL BE GALVANIZED SHEET METAL AND CONSTRUCTED ACCORDING TO THE LATEST SMACNA STANDARDS.
- 17. ALL DUCTWORK IS SHOWN IN SCHEMATIC FORM. DUCT RISES AND DROPS ARE NOT SHOWN. PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCE WITH OTHER TRADES. EACH TRADE SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES.
- 18. PIPING IS SHOWN IN SCHEMATIC FORM. ROUTE PIPING AS REQUIRED FOR CLEARANCE WITH STRUCTURAL CONDITIONS. COORDINATE WITH OTHER TRADES AS REQUIRED. PIPING SHALL BE INSTALLED WITH ADEQUATE SLOPE AS REQUIRED FOR EACH PARTICULAR
- 19. DOUBLE NUT LOCK DOWN FOR MULTI-VANE DAMPERS INSTALLED IN HIGH VELOCITY DUCTWORK/SMOKE REMOVAL DUCTWORK.
- 20. ALL RADIUS TURNS SHALL BE SMOOTH WALL WITH A RADIUS OF R = $\frac{1}{2}$

DESCRIPTION

SANITARY SEWER

GENERAL PROJECT NOTES:

- 1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM MECHANICAL SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY ALL NATIONAL, STATE AND LOCAL CODES.
- 2. CONTRACT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING, AND FIRE PROTECTION) ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. IT IS THE CONTRACTORS RESPONSIBILITY FOR INSTALLING ALL MATERIALS PER SMACNA STANDARDS AND THE MANUFACTURER'S STANDARDS.
- ALL EXISTING SYSTEM INFORMATION AND/OR LOCATIONS ARE PROVIDED BY THE OWNER OR BY A 3RD PARTY. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL MEP SERVICES ARE LOCATED AS DESIGNED BEFORE BIDDING THE PROJECT. IN OCCURRENCES WHERE EXISTING DOES NOT MATCH DESIGNED, IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNER, ARCHITECT, & ENGINEER BEFORE PROCEEDING. IF ANY DISCREPANCIES ARE NOT IDENTIFIED AT BIDDING, THE COST SHALL BE ABSORBED BY THE CONTRACTOR AND NOT PASSED ONTO THE OWNER OR ENGINEER OF RECORD.
- 4. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON THE OTHER CONTRACT DRAWINGS.
- 5. WHEN TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURE SHALL BE USED.
- 6. ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE LATEST EDITION NATIONAL ELECTRIC CODE AND DIVISION 16 (23) OF THE SPECIFICATION.
- 7. ALL MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS OTHERWISE NOTED) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL
- 8. MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.
- 9. LOCATION AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER

CONTRACTOR.

- 10. PROVIDE REMOTE BALANCING DAMPERS SIMILAR TO 'YOUNG CONCEALED REGULATORS' FOR ALL TAPS MADE ABOVE INACCESSIBLE CEILINGS OR WALLS. FINISH CONCEALMENT COVERS PER ARCHITECTS RECOMMENDATIONS.
- 11. ALL AHU AND FCU FANS SHALL OPERATE CONTINUOUSLY DURING THE OCCUPIED MODE OF OPERATION WITH ASSOCIATED OUTSIDE AIR MOTORIZED DAMPERS IN THE FULL OPEN POSITION (UNLESS NOTED OTHERWISE OR DCV SYSTEM). DAMPER SHALL BE CLOSED WITH THE FANS OPERATIONAL IN THE MORNING WARM UP OR COOL DOWN
- 12. CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 10'-0" BETWEEN OUTSIDE AIR INTAKE POINTS AND ANY EXHAUST AIR, CONTAMINATED RELIEF AIR OR PLUMBING VENT TERMINATION POINTS.
- 13. CONDENSATE PIPING DOWN TO A PLUMBING FIXTURE SHALL BE FULLY INSULATED WITHIN WALL. PROVIDE ESCUTCHEON PLATE AT WALL. PIPING SHALL NOT BE ROUTED EXPOSED TO
- 14. PRESSURIZED LIQUID, GAS, AIR SYSTEM PIPE AND ELECTRICAL CONDUIT SHALL NOT BE ROUTED BENEATH ANY SUSPENDED EQUIPMENT. FIRE PROTECTION, ELECTRICAL AND MECHANICAL CONTRACTORS SHALL COORDINATE
- 15. ALL REMOTE MOUNTED DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT SHALL HAVE I.D. NAME PLATES.
- 16. PIPING ON ROOF CONTRACTOR SHALL PROVIDE ROOF PIPE SUPPORTS ON 10'-0" CENTERS, EACH CHANGE IN DIRECTION, EACH ROOFTOP UNIT AND EACH PIPE PENETRATION THROUGH ROOF. REFER TO MECHANICAL SPECIFICATIONS FOR REQUIRED OFFSETS OR LOOPS FOR PIPE EXPANSION.
- 17. ALL DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PROVIDE MINIMAL DISRUPTION TO THE NEIGHBORING TENANTS.
- 18. ALL SAW CUTTING SHALL BE PERFORMED AFTER HOURS SO THAT OPERATION DOES NOT DISTURB NEIGHBORING TENANTS. THERE SHALL BE NO GAS POWERED EQUIPMENT IN TENANT AREAS.

9. PERMIT WILL BE REQUIRED AT CONTRACTOR'S EXPENSE.

—— D — EQUIP. OR FIXTURE DRAIN LINE

PR—PRESSURE RELIEF DISCHARGE

---- UNDERFLOOR

GENERAL PLUMBING NOTES

- 1. PLUMBING CONTRACTOR IS TO PROVIDE FIRE STOPS AT ALL ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE PIPING FLOOR AND RATED WALL PENETRATIONS PER SPECIFICATIONS.
 - 2. COORDINATE ROUTING OF ALL PIPING WITH NEW STRUCTURE, DUCTWORK, EQUIPMENT, ETC. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
 - 3. SLOPE ALL DRAIN PIPING 2-1/2" AND SMALLER @ 1/4"/FT. AND ALL DRAIN PIPING 3" AND LARGER @ 1/8"/FT.
 - 4. PROVIDE CLEAN OUTS IN SANITARY AND STORM DRAINAGE SYSTEMS AT ENDS OF RUNS, AT CHANGES IN DIRECTION, NEAR THE BASE OF STACKS, EVERY 75 FEET IN HORIZONTAL RUNS AND ELSE WHERE AS INDICATED.
 - 5. UNLESS OTHERWISE NOTED ALL PIPING SHALL BE NO LESS THAN
 - 6. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF ROOF DECKING, WITH SPACE FOR INSULATION
 - 7. INSTALL PIPING SO THAT VALVES, STRAINERS, UNIONS, TRAPS FLANGES, AND OTHER APPURTENANCES REQUIRING ACCESS ARE ACCESSIBLE.
 - 8. WHEN DOMESTIC COLD AND HOT WATER PIPING DROPS INTO A PIPE CHASE, THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE.
 - 9. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
 - 10. PROVIDE SHUTOFF VALVES IN ALL DOMESTIC WATER PIPING SYSTEM BRANCHES IN WHICH BRANCH PIPING SERVES TWO OR MORE FIXTURES.
 - 11. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES, AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND
 - 12. PROVIDE ALL PLUMBING FIXTURES WITH ACCESSIBLE QUARTER TURN BALL VALVES.
 - 13. TRAP PRIMERS SHALL BE PROVIDED FOR ALL FLOOR DRAINS AND FLOOR SINKS UNLESS NOTED OTHERWISE ON DRAWINGS. REFER TO SPECIFICATIONS FOR TRAP PRIMER REQUIREMENTS.
 - 14. REFER TO PLUMBING RISER DIAGRAMS FOR ADDITIONAL PIPING AND PIPE SIZES NOT SHOWN ON FLOOR PLANS.
 - 15. TERMINATE GAS VENTS A MINIMUM OF 2'0" ABOVE ROOF WITH

16. FIRE PROTECTION PER NFPA 13 AND ALL OTHER APPLICABLE

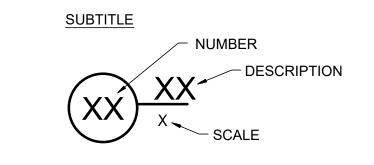
SECTIONS. FP PIPE SHALL NOT BE ROUTED BENEATH SUSPENDED MECHANICAL EQUIPMENT.

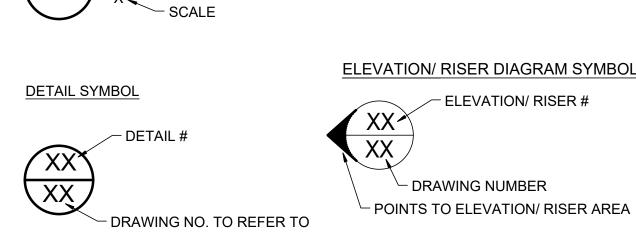
NON-CEILING AREA SHALL BE UPRIGHT HEADS MODIFY. EXISTING

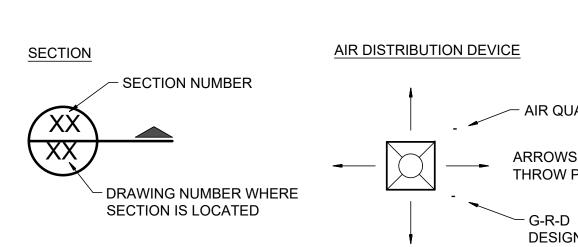
SECONDARY F.P. PIPING AND SWING ARMS AS REQ'D TO PROVIDE

- FULL COVERAGE FOR NEW FLOOR PLAN LAYOUT. 18. CONTRACTOR SHALL COORDINATE INSTALLATION OF GAS
- SERVICE AND METER WITH GAS COMPANY. CONTRACTOR SHALL PAY ALL FEES, PERMITS AND CHARGES ASSOCIATED WITH THE INSTALLATION OF BOTH THE GAS METER AND SERVICE. 19. GAS PIPING ON ROOF - CONTRACTOR SHALL PROVIDE ROOF PIPE
- SUPPORTS ON 10'-0" CENTERS, EACH CHANGE IN DIRECTION, EACH ROOFTOP UNIT AND EACH PIPE PENETRATION THROUGH ROOF. REFER TO MECHANICAL SPECIFICATIONS FOR REQUIRED OFFSETS OR LOOPS FOR PIPE EXPANSION. 20. GAS PIPING INSIDE BUILDING - ALL MEDIUM & HIGH PRESSURE
- GAS PIPING INSIDE BUILDING SHALL BE SLEEVED. CONTRACTOR SHALL EXTEND BOTH ENDS OF SLEEVE OUTSIDE BUILDING. WHERE GAS SLEEVES TERMINATE INTO WALL BOXES. CONTRACTOR SHALL INSTALL A 2" VENT FROM EACH WALL BOX AND EXTEND VENT UP THROUGH ROOF. CONTRACTOR SHALL PROVIDE GOOSENECK VENTS AT EACH ROOF PENETRATION.
- 21. ALL PIPING (DOM./FP/DRAIN/PRODUCTION) MATERIAL SHALL NOT BE CONSTRUCTED FROM PVC IN THE AREA ABOVE THE SCHEDULED CEILING, WHICH IS UTILIZED AS A RETURN AIR PLENUM. ALL WIRE THAT IS NOT IN CONDUIT SHALL BE PLENUM RATED WITHIN THIS AREA.
- 22. MOUNTING HEIGHT ELEVATION OF ALL WALL HUNG OR COUNTER MOUNTED FIXTURES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION OF ROUGH-IN WORK.
- 23. INSULATE ALL EXPOSED WATER AND DRAIN LINES ADA/TAS ACCESSIBLE LAVATORIES AND SINKS WITH MCGUIRE PRO WRAP OR EQUAL. PROVIDE OFFSET DRAIN FITTINGS WHERE REQUIRED TO PROVIDE MINIMUM CLEARANCES.
- 24. FLOOR DRAINS SHALL BE INSTALLED AT LOW POINTS OF UNIFORMLY SLOPED FLOOR. CONTRACTOR SHALL FIELD COORDINATE WITH STRUCTURAL TO INSURE FLOORS ARE UNIFORMLY SLOPED ACROSS THE ENTIRE TOILET ROOMS OR OVER AS WIDE AN AREA AS PRACTICAL FOR OPEN AREA FLOOR DRAINS. CONVEX FLOOR SLOPE IN THE IMMEDIATE VICINITY OF THE FLOOR DRAIN IS NOT ACCEPTABLE.









FIRE PROTECTION SYMBOLS

	(ALL SYMBOLS MAY NOT APPE	AR ON DRAWINGS	0.)
	FLOW SWITCH	0	RISE UP ON PIPING
•	POST INDICATOR VALVES (PIV)	•	DROP IN PIPING
	OPEN SCREW AND YOKE VALVE (OS&Y)	X	TAMPER SWITCH FOR VALVES
\bigcirc	FIRE DEPARTMENT CONNECTION		PENDANT SPRINKLER
A	UP AND DOWN SPRINKLER AT SAME LOCATION	(0)	UPRIGHT SPRINKLER OR RISE(SPRIG)
	UP SPRINKLER		PENDANT SPRINKLER ON DROP
\bigotimes	SYSTEM RISER		SIDEWALL SPRINKLER

---OD---- OVERFLOW DRAIN ---- PLUMBING VENT —— - — DOMESTIC COLD WATER ———— DOMESTIC HOT WATER (120 F) ————— DOMESTIC HOT WATER RECIRC. — 140 ——— DOMESTIC HOT WATER (140 F) —— F—— —— MG —— MEDIUM PRESSURE NATURAL GAS LINE —— G —— LOW PRESSURE NATURAL GAS LINE RS REFRIGERATED SUCTION LINE CD CONDENSATE DRAIN LINE (HVAC) PC PUMPED CONDENSATE

— — — SUBSOIL DRAIN PIPING

----SD---- STORM DRAIN

SYMBOL

——O——O—— BRANCH FIRE LINE WITH SPRINKLER HEADS

REFRIGERANT SUCTION & LIQUID LINES RS/L/H REFRIG. SUCTION, LIQUID, HOT GAS LINES

AIR QUANTITY ARROWS INDICATE THROW PATTERN **DESIGNATION**

PEOLO	CONDENSING	0557/50	7/05	NOMINAL	TOTAL CAP.	SENSIBLE CAP.	0514			ELECTRIC REHEAT		ELEC1	RICAL		1450	MODEL) MEIGHT (LDO)	NOTES	
DESIG.	UNIT	SERVES	TYPE	TONNAGE	BTUH	BTUH	CFM			DB / WB / %RH	KW	V/PH	FAN KW	MCA	MOCP	- MFG	NUMBER	WEIGHT (LBS) N	NOTES
UNIT-1	CU-1	EQUIP. ROOM	DOWNFLOW / DX	5	60	54	2,800	0.20	75 / 61 / 44.6	12	460/3	0.75	35.6	40	LIEBERT	PX018DA	670	1-12	
UNIT-2	CU-2	EQUIP. ROOM	DOWNFLOW / DX	6	73	64	3,500	0.20	75 / 61 / 44.6	12	460/3	1.31	39.6	50	LIEBERT	PX023DA	670	1-12	
UNIT-3	CU-3	EQUIP. ROOM	DOWNFLOW / DX	5	60	54	2,800	0.20	75 / 61 / 44.6	12	460/3	0.75	35.6	40	LIEBERT	PX018DA	670	1-12	

NOTES:

1. DOWNFLOW CONFIGURATION.

2. DUAL SHUTDOWN CONTACTS. 3. INCLUDE SMOKE DETECTOR DISCHARGE AIR TEMPERATURE SENSOR.

4. LON COMMUNICATION CARD. 5. THRU-DOOR DISC SWITCH (TO 80 FLA).

6. HIGH EFFICIENCY MOTOR.

7. LIQUID LINE SOLENOID VALVES - DUAL CIRCUIT.

8. UNIT MOUNTED CONDENSATE PUMP 9. FLOORSTAND WITH TURNING VANE.

10. VIBRATION ISOLATION PADS 11. REFRIGERANT R410A

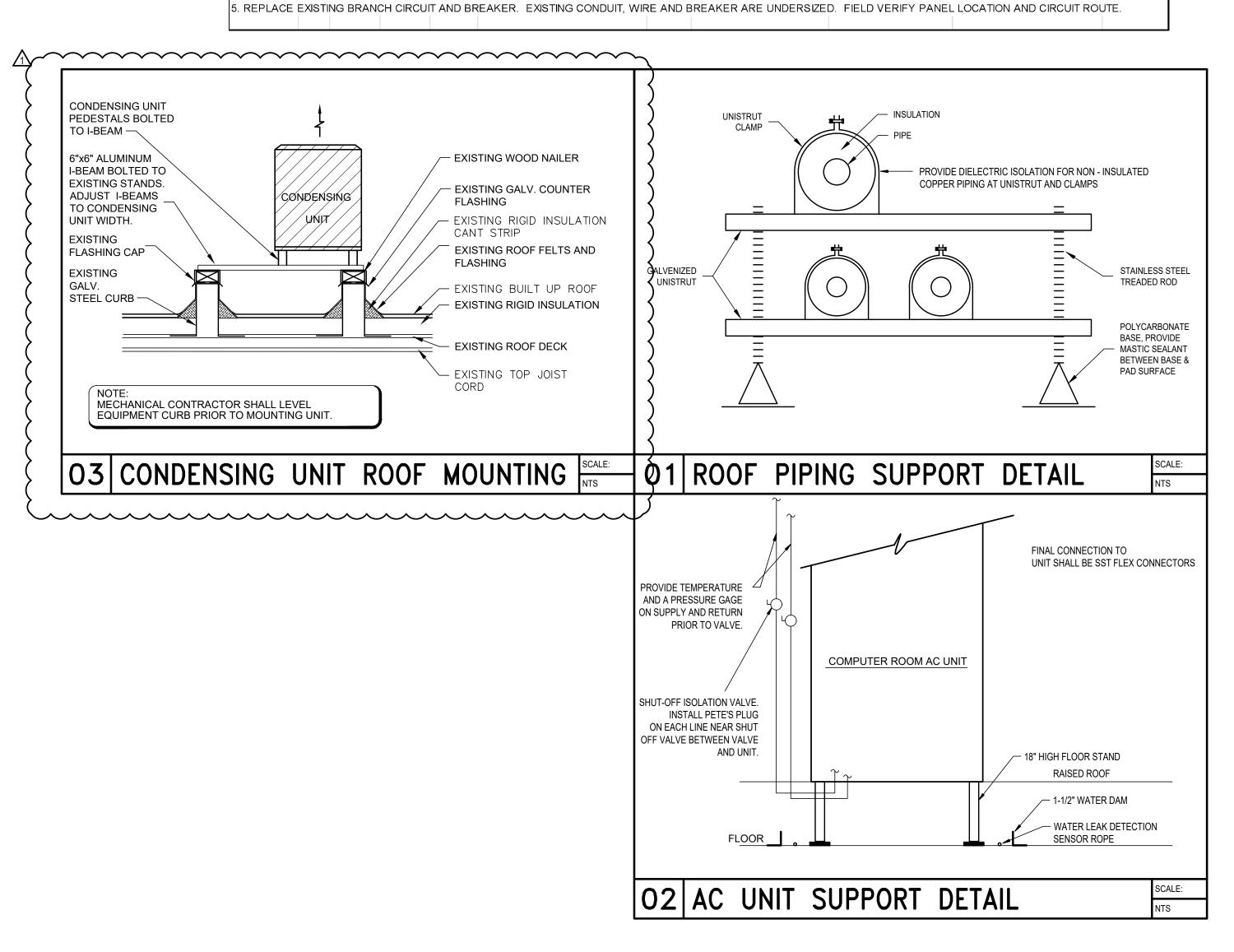
12. FRONT-ONLY MAINTENANCE ACCESS.

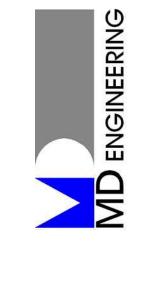
CRAC OUTDOOR CONDENSING UNIT SCHEDUL	E.
--------------------------------------	----

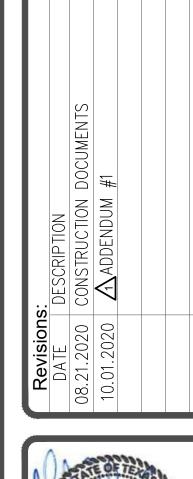
DESIG.	NOMINAL	COOLING CAP.	REF.	OUTDOOR	ELECTRICAL			MFG	MODEL	WEIGHT (LBS)	NOTES
DESIG.	TONNAGE	BTUH	TYPE	DB	V/PH	MCA	MAX FUSE	IVIFG	NUMBER	WEIGHT (LBS)	NOTES
CU-1	5	60	R410A	105°F	460/3	1.9	15.0	LIEBERT	MCM040	231	1-3
CU-2	6	60	R410A	105°F	460/3	1.9	15.0	LIEBERT	MCM040	231	1-3
CU-3	5	60	R410A	105°F	460/3	1.9	15.0	LIEBERT	MCM040	231	1-3

- 1. MOUNT CONDENSING UNIT ON LONGITUDINAL FRAME IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 2. PROVIDE UNIT MOUNTED DISCONNECT.
- 3. UNIT SHALL HAVE DUAL CIRCUITS

ITEM	kW	MCA	MFS	/OLTS/PH	CIRCUIT	C/B	WIRE & CONDUIT	REQUIRED MIN. SCCR	DISC. SW.	NOTES
CU-1		1.9	15	480/3	EXIST. CKT. 2EH-28/30/32.	15/3	3#12, 1#12G. 3/4" C.	1650 Amps	30/15/3/NEMA 3R	1, 2, 3, 4
CU-2		1.9	15	480/3	EXIST. CKT. ELEH-25/27/29	15/3	3#12, 1#12G. 3/4" C.	1650 Amps	30/15/3/NEMA 3R	1, 2, 3, 4
CU-3		1.9	15	480/3	EXIST. CKT. LEH-38/40/42	15/3	3#12, 1#12G. 3/4" C.	1650 Amps	30/15/3/NEMA 3R	1, 2, 3, 4
UNIT-1		35.6	40	480/3	EXIST. CKT. 2EH-27/29/31	40/3	3#8, 1#10G. 1" C.	2850 Amps	60/40/3/NEMA 1	1, 2, 3, 4
UNIT-2		39.6	50	480/3	NOTE 5 EXIST. ELEH-26/28/30	50/3	3#8, 1#10G. 1" C.	2850 Amps	60/50/3/NEMA 1	1, 2, 3, 4
UNIT-3		35.6	40	480/3	EXIST. CKT. LEH-37/39/41	40/3	3#8, 1#10G. 1" C.	2850 Amps	60/40/3/NEMA 1	1, 2, 3, 4
anel "2EH" i	locate	ed in the P	enthouse	on the roof.				·		
anels "ELEH	I" and "	LEH" are lo	ocated in t	he parking	garage below.					
NOTES										
1. REFER TO MECHANICAL PLANS FOR LOCATIONS OF EQUIPMENT.										
2. PROVIDE HACR TYPE BREAKERS FOR ALL HVAC EQUIPMENT IN SCHEDULE										
3. FUSES SHALL BE CLASS RK1.										





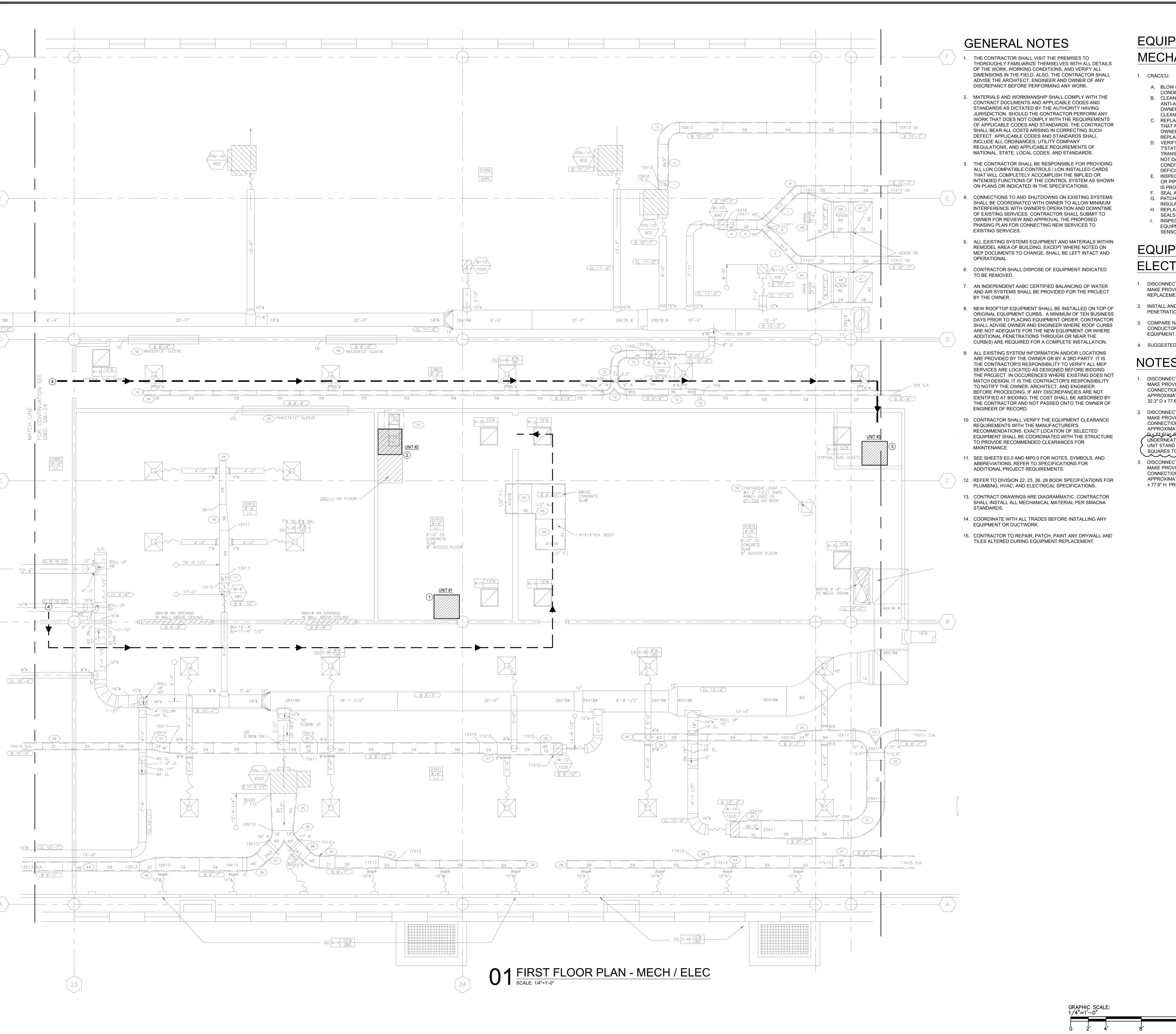




SCHEDULES / DETAILS -MECH / ELEC

201238

MEO. 1



- CONDENSATE PIPING SYSTEM. B. CLEAN AND TREAT CONDENSATE DRAIN LINES WITH
- CLEAN AND FREE OF OBSTRUCTIONS. C. REPLACE ANY AIR FILTERS ASSOCIATED WITH UNITS THAT ARE DAMAGED PRIOR TO TURNING OVER TO
- E. INSPECT AND REPAIR ANY DAMAGED CONDENSATE

- SEALS.

- 1. DISCONNECT POWER TO EQUIPMENT SCHEDULED FOR DEMOLITION.
- 2. INSTALL AND CONNECT ROOF RECEPTACLE. COORDINATE ROOF
- 3. COMPARE NAMEPLATE OF NEW EQUIPMENT WITH EXISTING

NOTES BY SYMBOL "U"

- 1. DISCONNECT PIPING/DUCTWORK TO UNIT #1 TO BE REPLACED.
- DISCONNECT PIPING/DUCTWORK TO UNIT #3 TO BE REPLACED.

EQUIPMENT REPLACEMENT MECHANICAL GENERAL NOTES

- A. BLOW DOWN AND CLEAN ANY STRAINER WITHIN THE
- ANTI-ALGAE AGENT PRIOR TO TURNING OVER TO OWNER. VERIFY THAT ALL TERMINATION POINTS ARE
- OWNER. PROVIDE OWNER WITH A SECOND SET OF
- REPLACEMENT FILTERS. D. VERIFY THAT ALL ASSOCIATED CONTROLS (I.E. ROOM T'STATS, DAMPERS, LINKAGE, ACTUATORS, RELAYS, TRANSDUCERS, LOW VOLTAGE WIRING, ETC.) ARE NOT DAMAGED AND ARE IN GOOD WORKING
- CONDITION. THE CONTRACTOR SHALL REPAIR ANY
- OR PIPING/ INSULATION. VERIFY ALL EXISTING PIPING
- IS PROPERLY SUPPORTED F. SEAL ANY GAPS IN DUCT TO UNIT CONNECTIONS.
- G. PATCH OR REPLACE ANY DAMAGED PLENUM INSULATION. H. REPLACE ALL EXISTING CURB SEALS WITH NEW
- I. INSPECT AND SERVICE ALL SMOKE ALARM EQUIPMENT. REPLACE ANY DAMAGED EQUIPMENT OR SENSORS.



- MAKE PROVISIONS TO RE-USE CIRCUIT FOR CONNECTION TO REPLACEMENT EQUIPMENT.
- PENETRATION WITH ARCHITECT.
- CONDUCTORS AND BREAKER, PRIOR TO CONNECTION OF
- 4. SUGGESTED ROUTING FOR EQUIPMENT ENTRY/EXIT.



- MAKE PROVISIONS TO RE-USE EXISTING PIPING/DUCTWORK FOR CONNECTIONS TO REPLACEMENT EQUIPMENT. EXISTING UNIT IS APPROXIMATELY 32.5" W x 32.5" D x 75.5" H. NEW UNIT IS 34.5" W x 32.3" D x 77.6" H. PROVIDE NEW STAND AS REQUIRED.
- 2. DISCONNECT PIPING/DUCTWORK TO UNIT #2 TO BE REPLACED. MAKE PROVISIONS TO RE-USE EXISTING PIPING/DUCTWORK FOR CONNECTIONS TO REPLACEMENT EQUIPMENT. EXISTING UNIT IS APPROXIMATELY 74.5" W x 33" D x 71" H. NEW UNIT IS 34.5" W x 32.3" D x 77.6" H. PROVIDE NEW STAND AS REQUIRED. FRAME UNDERNEATH PREVIOUS UNIT LOCATION EXTENDING PAST NEW UNIT STAND FOR NEW CARPET SQUARE INSTALLATION. CARPET SQUARES TO BE PROVIDED BY COLLIN COUNTY.
- MAKE PROVISIONS TO RE-USE EXISTING PIPING/DUCTWORK FOR CONNECTIONS TO REPLACEMENT EQUIPMENT. EXISTING UNIT IS APPROXIMATELY 33" W x 33" D x 76" H. NEW UNIT IS 34.5" W x 32.3" D x 77.6" H. PROVIDE NEW STAND AS REQUIRED.

PLAN -MECH / ELEC

201238

DISCREPANCY BEFORE PERFORMING ANY WORK.

2. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND APPLICABLE CODES AND STANDARDS AS DICTATED BY THE AUTHORITY HAVING JURISDICTION. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS, THE CONTRACTOR SHALL BEAR ALL COSTS ARISING IN CORRECTING SUCH DEFECT. APPLICABLE CODES AND STANDARDS SHALL INCLUDE ALL ORDINANCES, UTILITY COMPANY REGULATIONS, AND APPLICABLE REQUIREMENTS OF NATIONAL, STATE, LOCAL CODES, AND STANDARDS.

DIMENSIONS IN THE FIELD. ALSO, THE CONTRACTOR SHALL

ADVISE THE ARCHITECT, ENGINEER AND OWNER OF ANY

- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL CONTROLS THAT WILL COMPLETELY ACCOMPLISH THE IMPLIED OR INTENDED FUNCTIONS OF THE CONTROL SYSTEM AS SHOWN ON PLANS OR INDICATED IN THE SPECIFICATIONS.
- 4. CONNECTIONS TO AND SHUTDOWNS ON EXISTING SYSTEMS SHALL BE COORDINATED WITH OWNER TO ALLOW MINIMUM INTERFERENCE WITH OWNER'S OPERATION AND DOWNTIME OF EXISTING SERVICES. CONTRACTOR SHALL SUBMIT TO OWNER FOR REVIEW AND APPROVAL THE PROPOSED PHASING PLAN FOR CONNECTING NEW SERVICES TO EXISTING SERVICES.
- ALL EXISTING SYSTEMS EQUIPMENT AND MATERIALS WITHIN REMODEL AREA OF BUILDING, EXCEPT WHERE NOTED ON MEP DOCUMENTS TO CHANGE, SHALL BE LEFT INTACT AND OPERATIONAL.
- 6. CONTRACTOR SHALL DISPOSE OF EQUIPMENT INDICATED TO BE REMOVED.
- 7. AN INDEPENDENT AABC CERTIFIED BALANCING OF WATER AND AIR SYSTEMS SHALL BE PROVIDED UNDER THIS CONTRACT FOR ALL SYSTEMS WITHIN DEMOLITION/NEW CONSTRUCTION BOUNDARIES AND ADJACENT AREAS THAT MAY BE AFFECTED BY BALANCING FOR THE PROJECT.
- 8. NEW ROOFTOP EQUIPMENT SHALL BE INSTALLED ON TOP OF ORIGINAL EQUIPMENT CURBS. A MINIMUM OF TEN BUSINESS DAYS PRIOR TO PLACING EQUIPMENT ORDER, CONTRACTOR SHALL ADVISE OWNER AND ENGINEER WHERE ROOF CURBS ARE NOT ADEQUATE FOR THE NEW EQUIPMENT OR WHERE ADDITIONAL PENETRATIONS THROUGH OR NEAR THE CURB(S) ARE REQUIRED FOR A COMPLETE INSTALLATION.
- ALL EXISTING SYSTEM INFORMATION AND/OR LOCATIONS
 ARE PROVIDED BY THE OWNER OR BY A 3RD PARTY. IT IS
 THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL MEP
 SERVICES ARE LOCATED AS DESIGNED BEFORE BIDDING
 THE PROJECT. IN OCCURENCES WHERE EXISTING DOES NOT
 MATCH DESIGN, IT IS THE CONTRACTOR'S RESPONSIBILITY
 TO NOTIFY THE OWNER, ARCHITECT, AND ENGINEER
 BEFORE PROCEEDING. IF ANY DISCREPANCIES ARE NOT
 IDENTIFIED AT BIDDING, THE COST SHALL BE ABSORBED BY
 THE CONTRACTOR AND NOT PASSED ONTO THE OWNER OF
 ENGINEER OF RECORD.
 CONTRACTOR SHALL VERIFY THE EQUIPMENT CLEARANCE

REQUIREMENTS WITH THE MANUFACTURER'S

- RECOMMENDATIONS. EXACT LOCATION OF SELECTED EQUIPMENT SHALL BE COORDINATED WITH THE STRUCTURE TO PROVIDE RECOMMENDED CLEARANCES FOR MAINTENANCE.

 11. SEE SHEETS E0.0 AND MP0.0 FOR NOTES, SYMBOLS, AND ABBREVIATIONS. REFER TO SPECIFICATIONS FOR
- ADDITIONAL PROJECT REQUIREMENTS.

 12. REFER TO DIVISION 22, 23, 26, 28 BOOK SPECIFICATIONS FOR
- 13. CONTRACT DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL INSTALL ALL MECHANICAL MATERIAL PER SMACNA STANDARDS.

PLUMBING, HVAC, AND ELECTRICAL SPECIFICATIONS.

14. COORDINATE WITH ALL TRADES BEFORE INSTALLING ANY EQUIPMENT OR DUCTWORK.

15. LAWN TO BE PROTECTED WHILE UNITS ARE CRANED ON THE ROOF. ACCESS ROOFTOP THROUGH LAWN AT WEST SIDE OF BUILDING WHEN PICKING/PLACING NEW ROOFTOP UNITS.

LAY DOWN PLYWOOD OR OTHER FORM OF RUT PROTECTION FROM EQUIPMENT. PLACE NEW SOD IN THE EVENT EXISTING

GRASS IS DAMAGED.

EQUIPMENT REPLACEMENT MECHANICAL GENERAL NOTES

1. CRAC/CU:

- A. BLOW DOWN AND CLEAN ANY STRAINER WITHIN THE
- CONDENSATE PIPING SYSTEM.

 B. CLEAN AND TREAT CONDENSATE DRAIN LINES WITH ANTI-ALGAE AGENT PRIOR TO TURNING OVER TO OWNER. VERIFY THAT ALL TERMINATION POINTS ARE
- CLEAN AND FREE OF OBSTRUCTIONS.

 C. REPLACE ANY AIR FILTERS ASSOCIATED WITH UNITS THAT ARE DAMAGED PRIOR TO TURNING OVER TO OWNER. PROVIDE OWNER WITH A SECOND SET OF
- REPLACEMENT FILTERS.

 D. VERIFY THAT ALL ASSOCIATED CONTROLS (I.E. ROOM T'STATS, DAMPERS, LINKAGE, ACTUATORS, RELAYS, TRANSDUCERS, LOW VOLTAGE WIRING, ETC.) ARE NOT DAMAGED AND ARE IN GOOD WORKING CONDITION. THE CONTRACTOR SHALL REPAIR ANY
- NOT DAMAGED AND ARE IN GOOD WORKING
 CONDITION. THE CONTRACTOR SHALL REPAIR ANY
 DEFICIENCIES.

 E. INSPECT AND REPAIR ANY DAMAGED CONDENSATE
- OR PIPING/ INSULATION. VERIFY ALL EXISTING PIPING IS PROPERLY SUPPORTED

 F. SEAL ANY GAPS IN DUCT TO UNIT CONNECTIONS.
- G. PATCH OR REPLACE ANY DAMAGED PLENUM INSULATION.H. REPLACE ALL EXISTING CURB SEALS WITH NEW SEALS.

EQUIPMENT. REPLACE ANY DAMAGED EQUIPMENT OR

INSPECT AND SERVICE ALL SMOKE ALARM

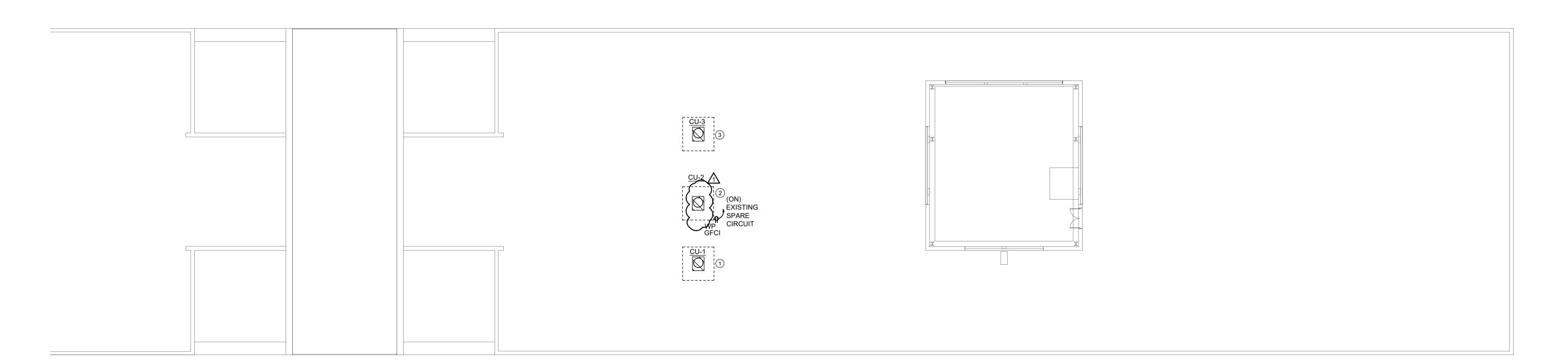
EQUIPMENT REPLACEMENT

ELECTRICAL GENERAL NOTES

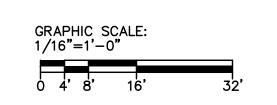
- DISCONNECT POWER TO EQUIPMENT SCHEDULED FOR DEMOLITION.
 MAKE PROVISIONS TO RE-USE CIRCUIT FOR CONNECTION TO REPLACEMENT EQUIPMENT.
- 2. INSTALL AND CONNECT ROOF RECEPTACLE. COORDINATE ROOF PENETRATION WITH ARCHITECT.
- COMPARE NAMEPLATE OF NEW EQUIPMENT WITH EXISTING CONDUCTORS AND BREAKER, PRIOR TO CONNECTION OF EQUIPMENT.

NOTES BY SYMBOL "O"

- 1. DISCONNECT PIPING TO <u>CU-1</u> TO BE REPLACED. MAKE PROVISIONS TO RE-USE EXISTING PIPING FOR CONNECTIONS TO REPLACEMENT EQUIPMENT REFER TO 3/ME0.1.
- 2. DISCONNECT PIPING TO <u>CU-2</u> TO BE REPLACED. MAKE PROVISIONS TO RE-USE EXISTING PIPING FOR CONNECTIONS 10 REPLACEMENT EQUIPMENT. NEW CU DIMENSIONS ARE SMALLER THAN CURRENT UNIT. CONTRACTOR SHALL PROVIDE SUPPORT FROM EXISTING RAILS (REFER TO 3/ME0.1.)
- 3. DISCONNECT PIPING TO <u>CU-3</u> TO BE REPLACED. MAKE PROVISIONS TO RE-USE EXISTING PIRING FOR CONNECTIONS TO REPLACEMENT EQUIPMENT REFER TO 3/ME0.1.
- 4. PROVIDE NAMEPLATE LABEL FOR EACH UNIT "CU-1", "CU-2", "CU-3".



01 ROOF PLAN - MECH / ELEC



Key Plan

ORTHORITION

A

B

C

M

E

ROOF PLAN - MECH / ELEC

Project No.

201238

Sheet No.

ME2.2

Texas Reg 1255 Wes Plano, TX Email: n Project Nur

REPL

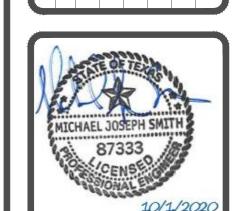
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Revisions:

DATE DESCRIPTIO

08.21.2020 CONSTRUCT

10.01.2020 AADDENIC



Section 004100 Bid Form Addendum 1



2020-346 Addendum 1

Construction, Collin County Sheriff's Office Computer Room Air Conditioning Replacement

Issue Date: 9/15/2020

Questions Deadline: 10/1/2020 03:00 PM (CT) Response Deadline: 10/8/2020 02:00 PM (CT)

Collin County Purchasing

Contact Information

Contact: JD Griffin, CPPB Buyer II

Address: Purchasing

Admin. Building

Ste.3160

2300 Bloomdale Rd.

Ste. 3160

McKinney, TX 75071

Phone: (972) 548-4116 Fax: (972) 548-4694

Email: jgriffin@co.collin.tx.us

Event Information

Number: 2020-346 Addendum 1

Title: Construction, Collin County Sheriff's Office Computer Room Air Conditioning

Replacement

Type: Invitation for Bid - Construction

Issue Date: 9/15/2020

Question Deadline: 10/1/2020 03:00 PM (CT) Response Deadline: 10/8/2020 02:00 PM (CT)

Notes: Please log in to view bid documents.

Ship To Information

Address: Sheriff's Office

4300 Community Ave. MCKINNEY, TX 75071

Billing Information

Address: Auditor

Admin. Building Ste. 3100

2300 Bloomdale Rd.

Ste. 3100

McKinney, TX 75071

Bid Activities

Mandatory Pre-Bid Conference (RSVP Required)

9/29/2020

A MANDATORY PRE-BID CONFERENCE will be held by Collin County at the Collin County Sheriff's Office Lobby, 4300 Community Ave., McKinney, TX 75071 on Tuesday, September 29, 2020 in order for bidders to ask questions regarding the proposed work. All bidders desiring to bid the work should have a representative at the pre-bid conference; bidders that do not attend the pre-bid conference shall not be considered in the evaluation for award of a contract per Texas Local Government Code 262.0256. Attendance shall be mandatory at the pre-bid conference. It is the bidder's responsibility to review the site and documents to gain a full understanding of the requirements of the bid. Due to the current COVID-19 social distancing recommendations, a limit of six (6) attendees will be allowed during each session in addition to three (3) County representatives. Each contractor attending shall be limited to two (2) participants. All participants will be required to provide and wear a face mask that covers the mouth and nose, have temperature checked and complete a Covid-19 screening questionnaire upon arrival. The first conference session will begin at 9:00 AM followed by sessions at 10:30 AM, 1:30 PM and 3:00 PM (as needed). Bidders interested in attending the pre-bid conference shall RSVP to jgriffin@co.collin.tx.us with "2020-346, Collin County Sheriff's Office Computer Room Air Conditioning Replacement" in the subject line, no later than Friday, September 25, 2020 at 2:00 PM. RSVP response shall include company name, name of individuals that will be attending (maximum of 2) and the preferred session time. Attendees for each session will be scheduled in the order they are received.

Bid Attachments

Addendum 1_2020-346.doc

View Online

Addendum 1

LEGAL NOTICE-2020-346.doc

Download

Legal Notice

CRAC Unit Replacment Combined Specifications.pdf

View Online

Specifications

CRAC Unit Replacement Drawings.pdf

View Online

Drawings

Pre-Bid Attendee List.pdf **View Online** Pre-Bid Attendee List MP0.0 Addendum 1.pdf **View Online** Sheet MP0.0 Addendum 1 ME0.1_Addendum 1.pdf **View Online** Sheet ME0.1 Addendum 1 ME2.1_Addendum 1.pdf **View Online** Sheet ME2.1 Addendum 1 ME2.2_Addendum 1.pdf **View Online**

Requested Attachments

Sheet ME2.2 Addendum 1

Conflict of Interest Questionnaire

W-9

(Attachment required)

Bid Bond

(Attachment required)

BID SECURITY: All Bidders must submit, prior to the bid opening time, a Certified Check, Cashier's Check or acceptable Bid Bond payable without recourse to Collin County in the amount of not less than five percent (5%) of the total bid plus alternates as submitted.

- 1. Bid Bond, certified check or Cashier's Check may be mailed or delivered to the Office of the Collin County Purchasing Agent, Collin County Administration Building, 2300 Bloomdale Road, Ste 3160, McKinney, TX 75071 and shall be delivered in an envelope, marked plainly on the outside with the Bid Name and Number.
- 2. Bidders submitting a bid via Collin County eBid shall upload a Bid Bond at https://collincountytx.ionwave.net

Regardless of delivery method, all Bid Bonds shall be received prior to the bid opening time to be considered. Failure to submit a copy of bid security prior to bid opening shall be cause for rejection of bid.

The original Bid Bond shall be received in the Collin County Purchasing Department no later than close of business

1	Solicitation Submittals
	In an effort to avoid person-to-person interaction to comply with the latest Order issued to prevent the spread of COVID-19, Collin County Purchasing will temporarily only accept IFB, RFP, RFQ and Quote submittals electronically in Ionwave (eBid) or via parcel carrier until further notice. Please do not deliver your solicitation response in person. All bid openings will be completed on schedule and witnessed by Collin County Purchasing staff to ensure all procurement statutes, policies and state laws are followed. Please initial.
	(Required: Maximum 1000 characters allowed)

2	Collin County exclusively uses IonWave Technologies, Inc. (Collin County eBid) for the notification and dissemination of all solicitations. The receipt of solicitations through any other means may result in your receipt of incomplete specifications and/or addendums which could ultimately render your bid/proposal non-compliant. Collin County accepts no responsibility for the receipt and/or notification of solicitations through any other means. Please initial. (Required: Maximum 1000 characters allowed)
3	Contact Information List the contact name, email address and phone number of the main person(s) Collin County should contact in reference to this solicitation. Contact(s) shall be duly authorized by the company, corporation, firm, partnership or individual to respond to any questions, clarification, and or offers in response to this solicitation. (Required: Maximum 4000 characters allowed)
4	Calendar Days Bid Please state the consecutive calendar days bid from notice to proceed through completion of project. (Required: Numbers only)
5	Exceptions Do you take exceptions to the specifications. If so, by separate attachment, please state your exceptions. Yes No (Required: Check only one)
6	Bonding Requirement Acknowledgement I understand that the bonding requirements of this solicitation are required and are included in the submitted pricing. A bond certificate (payment, performance, and/or maintenance) as stated in the specification document shall be submitted to the Purchasing department if I am awarded all or a portion of the resulting contract. Please initial. (Required: Maximum 1000 characters allowed)
7	Insurance Acknowledgement – Construction/Public Works I understand that the insurance requirements of this solicitation are required and are included in the submitted pricing. The Contractor shall furnish certificates of insurance for both the Contractor and any subcontractor to the Purchasing department if awarded all or a portion of the resulting contract. Please initial. (Required: Maximum 1000 characters allowed)
	(INEQUITED. IMAXIIIIUIII 1000 GIIAIAGEIS AIIOWEU)

8	Subcontractors
	State the business name of all subcontractors and the type of work they will be performing under this contract. If you are fully qualified to self-perform the entire contract, please respond with "Not Applicable-Self Perform".
	(Required: Maximum 4000 characters allowed)
9	Reference No. 1
	List a company or governmental agency, other than Collin County, where these same/like products/services, as stated herein, have been provided. Texas references preferred. Include the following: Company/Entity, Contact, Address, City/State/Zip, Phone, and E-Mail.
	(Required: Maximum 4000 characters allowed)
1	Reference No. 2
0	List a company or governmental agency, other than Collin County, where these same/like products/services, as stated herein, have been provided. Texas references preferred. Include the following: Company/Entity, Contact, Address, City/State/Zip, Phone, and E-Mail.
	(Required: Maximum 4000 characters allowed)
1	Reference No. 3
1	List a company or governmental agency, other than Collin County, where these same/like products/services, as stated herein, have been provided. Texas references preferred. Include the following: Company/Entity, Contact, Address, City/State/Zip, Phone, and E-Mail.
	(Required: Maximum 4000 characters allowed)
	(

1	Preferential Treatment
2	The County of Collin, as a governmental agency of the State of Texas, may not award a contract to a nonresident bidder unless the nonresident's bid is lower than the lowest bid submitted by a responsible Texas resident bidder by the same amount that a Texas resident bidder would be required to underbid a nonresident bidder to obtain a comparable contract in the state in which the nonresident's principal place of business is located (Government Code, Title 10, V.T.C.A., Chapter 2252, Subchapter A).
	 Is your principal place of business in the State of Texas? If your principal place of business is not in Texas, in which State is your principal place of business? If your principal place of business is not in Texas, does your state favor resident bidders (bidders in your state) by some dollar increment or percentage? If your state favors resident bidders, state by what dollar amount or percentage.
	(Required: Maximum 4000 characters allowed)
4	
3	Debarment Certification I certify that neither my company nor an owner or principal of my company has been debarred, suspended or otherwise made ineligible for participation in Federal Assistance programs under Executive Order 12549, "Debarment and Suspension," as described in the Federal Register and Rules and Regulations. Please initial.
	(Required: Maximum 1000 characters allowed)
1	I declare and affirm that my company is in compliance with the Immigration and Reform Act of 1986 and all employees are legally eligible to work in the United States of America. I further understand and acknowledge that any non-compliance with the Immigration and Reform Act of 1986 at any time during the term of this contract will render the contract voidable by Collin County. Please initial.
	(Required: Maximum 1000 characters allowed)
1	Disclosure of Certain Relationships
5	Chapter 176 of the Texas Local Government Code requires that any vendor considering doing business with a local government entity disclose the vendor's affiliation or business relationship that might cause a conflict of interest with a local government entity. Subchapter 6 of the code requires a vendor to file a conflict of interest questionnaire (CIQ) if a conflict exists. By law this questionnaire must be filed with the records administrator of Collin County no later than the 7th business day after the date the vendor becomes aware of an event that requires the statement to be filed. A vendor commits an offense if the vendor knowingly violates the code. An offense under this section is a misdemeanor. By submitting a response to this request, the vendor represents that it is in compliance with the requirements of Chapter 176 of the Texas Local Government Code. Please send completed forms to the Collin County County Clerk's Office located at 2300 Bloomdale Rd., Suite 2104, McKinney, TX 75071. Please initial.
	(Required: Maximum 1000 characters allowed)

corporation, firm, or person submitting a Bid/Proposal for the same materials, services, supplies, or equipment is in all respects fair and without collusion or fraud. No premiums, rebates or gratuities permitted; either with, p to, or after any delivery of material or provision of services. Any such violation may result in Agreement cancel return of materials or discontinuation of services and the possible removal from bidders list. Please initial. Required: Maximum 1000 characters allowed	Bidder certifies that its Bid/Proposal is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a Bid/Proposal for the same materials, services, supplies, or equipment and is in all respects fair and without collusion or fraud. No premiums, rebates or gratuities permitted; either with, prior to, or after any delivery of material or provision of services. Any such violation may result in Agreement cancellation return of materials or discontinuation of services and the possible removal from bidders list. Please initial.		
Disclosure of Interested Parties Section 2252.908 of the Texas Government Code requires a business entity entering into certain contracts with governmental entity to file with the governmental entity a disclosure of interested parties at the time the busine entity submits the signed contract to the governmental entity. Section 2252.908 requires the disclosure form (F 1295) to be signed by the authorized agent of the contracting business entity, acknowledging that the disclosur made under oath and under penalty of perjury. Section 2252.908 applies only to a contract that requires an are or vote by the governing body of the governmental entity before the contract may be signed or has a value of least \$1 million. Section 2252.908 provides definitions of certain terms occurring in the section. Section 2252.9 applies only to a contract entered into on or after January 1, 2016. Please initial. Required: Maximum 1000 characters allowed Notification Survey In order to better serve our offerors, the Collin County Purchasing Department is conducting the following survey In order to better serve our offerors, the Collin County Purchasing Department is conducting the following survey In order to better serve our offerors, the Collin County Purchasing Department is conducting the following survey In order to better serve our offerors, the Collin County Purchasing Department is conducting the following survey In order to better serve our offerors, the Collin County Purchasing Department is conducting the following survey In order to better serve our offerors, the Collin County Purchasing Department is conducting the following survey In order to better serve our offerors, the Collin County Purchasing Department is conducting the following survey In order to better serve our offerors allowed Interest Purchasing Department is conducting the following survey Interest Purchasing Purc	Disclosure of Interested Parties Section 2252.908 of the Texas Government Code requires a business entity entering into certain contracts with a governmental entity to file with the governmental entity a disclosure of interested parties at the time the business entity submits the signed contract to the governmental entity. Section 2252.908 requires the disclosure form (Form 1295) to be signed by the authorized agent of the contracting business entity, acknowledging that the disclosure is made under oath and under penalty of perjury. Section 2252.908 applies only to a contract that requires an action or vote by the governing body of the governmental entity before the contract may be signed or has a value of at least \$1 million. Section 2252.908 provides definitions of certain terms occurring in the section. Section 2252.908 applies only to a contract entered into on or after January 1, 2016. Please initial. Required: Maximum 1000 characters allowed Notification Survey	1 6	Bidder certifies that its Bid/Proposal is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a Bid/Proposal for the same materials, services, supplies, or equipment and is in all respects fair and without collusion or fraud. No premiums, rebates or gratuities permitted; either with, prior to, or after any delivery of material or provision of services. Any such violation may result in Agreement cancellation, return of materials or discontinuation of services and the possible removal from bidders list. Please initial.
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Notification Survey In order to better serve our offerors, the Collin County Purchasing Department is conducting the following survey We appreciate your time and effort expended to submit your bid. Should you have any questions or require me information please call (972) 548-4165. How did you receive notice of this request? Plano Star Courier Plan Room Collin County eBid Notification Collin County Websit Other (Required: Check only one) Cooperative Contract Name State the cooperative contract name this quote is offered under. (i.e. TX DIR, TXMAS, OMNIA Partners, Buyboa TIPS/TAPS, HGAC, HCDE, etc.) If none, answer N/A.	Notification Survey In order to better serve our offerors, the Collin County Purchasing Department is conducting the following survey. We appreciate your time and effort expended to submit your bid. Should you have any questions or require more information please call (972) 548-4165. How did you receive notice of this request? Plano Star Courier Plan Room Collin County eBid Notification County Website Other (Required: Check only one) Cooperative Contract Name State the cooperative contract name this quote is offered under. (i.e. TX DIR, TXMAS, OMNIA Partners, Buyboard, TIPS/TAPS, HGAC, HCDE, etc.) If none, answer N/A.	17	Section 2252.908 of the Texas Government Code requires a business entity entering into certain contracts with a governmental entity to file with the governmental entity a disclosure of interested parties at the time the business entity submits the signed contract to the governmental entity. Section 2252.908 requires the disclosure form (Form 1295) to be signed by the authorized agent of the contracting business entity, acknowledging that the disclosure is made under oath and under penalty of perjury. Section 2252.908 applies only to a contract that requires an action or vote by the governing body of the governmental entity before the contract may be signed or has a value of at least \$1 million. Section 2252.908 provides definitions of certain terms occurring in the section. Section 2252.908
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(Required: Maximum 4000 characters allowed)	(Required: Maximum 4000 characters allowed)	19	State the cooperative contract name this quote is offered under. (i.e. TX DIR, TXMAS, OMNIA Partners, Buyboard,
			(Required: Maximum 4000 characters allowed)

2	Cooperative Contract Number State the cooperative contract number this quote is offered under. If none, answer N/A.
	(Required: Maximum 4000 characters allowed)
2	Cooperative Contract Website Please provide the website URL for the cooperative contract this quote is offered under. If none, answer N/A.
	(Required: Maximum 1000 characters allowed)
2 2	Bid Bond Acknowledgement I understand that accompanying this bid, is a certified check, cashier's check or Bid Bond in the amount of five percent (5%) of the total amount bid. Bidders submitting a bid via Collin County eBid shall upload a Bid Bond at https://collincountytx.ionwave.net. Regardless of delivery method, all Bid Bonds shall be received prior to the bid opening time to be considered. I understand that the original Bid Bond shall be received in the Collin County Purchasing Department no later than close of business on the third working day after the bid opening. Late receipt of original Bid Bond shall be cause for rejection of bid. Please initial. (Required: Maximum 4000 characters allowed)
23	Construction Acknowledgement Bidder, declares that the only person or parties interested in this bid are those principals named herein, that his/her bid is made without collusion with any other person, firm or corporation, that he/she has carefully examined the Contract Documents including the Advertisement for Bids, Instruction to Bidders, Construction Agreement, Specifications and the Drawings, therein referred to and has carefully examined the locations, conditions and classes of materials for the proposed work, and agrees that he/she will provide all the necessary labor, machinery, tools, equipment, apparatus and other items incidental to construction and will do all the work and furnish all the materials called for in the Contract Documents in the manner prescribed therein. Bidder hereby declares that he/she has visited the site of the Work and has carefully examined the Contract Documents pertaining to the Work covered by the above Bid, and he/she further agrees to commence work within ten (10) consecutive calendar days after date of written Notice to Proceed and to substantially complete the work on which he/she has bid within the number of days specified subject to such extensions of time allowed by Specifications. Bidder certifies that the bid prices contained in this bid have been carefully checked and are submitted as correct and final. The prices have been shown in words and figures for each item listed in this bid and it is understood that in the event of a discrepancy, the words shall govern. Please initial.
	(Required: Maximum 1000 characters allowed)

	b. 1 Acknowledgement
Please initial to	verify your receipt of the addendum.
(Peguired: Maximu	m 1000 characters allowed)
(Nequired, Maximus	III 1000 Characters allowed)
d Lines	
Package H	leader
Bid Grand Tota	
Quantity: 1	UOM: lump sum Total: \$
Item Notes:	Total Material Cost (Line 1.1) and Total Labor Cost (Line 1.2) must add up to the Bid Grand Total.
Supplier Notes:	Alternate specification
	(Attach separate shee
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1. Bid Grand	Total- Written in Words
The contract	award will be based on the total bid price.
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Supplier Info	rmation
Company Name:	
Contact Name:	
Address:	
Phone:	
Fax:	
Email:	
Supplier Note	es
the duly authorized Bidder affirms that individual has not p line of business; and	ereby certifies the foregoing bid submitted by the company listed below hereinafter called "bidder" is agent of said company and the person signing said bid has been duly authorized to execute same. they are duly authorized to execute this contract; this company; corporation, firm, partnership or prepared this bid in collusion with any other bidder or other person or persons engaged in the same and that the contents of this bid as to prices, terms and conditions of said bid have not been the undersigned nor by any employee or agent to any other person engaged in this type of business opening of this bid.
Print Name	Signature