1. These drawings are intended to provide for a complete, functioning hvac system as per the clients requirements. The contractor will study the plans and will provide the required labor and equipment in order to achieve all goals as required by these plans. Should the contractor find any errors or AMBIGUITIES WITHIN THESE PLANS, THEN SHE/HE WILL NOTIFY THE ENGINEER IMMEDIATELY PRIOR TO THE SUBMISSION OF FINAL BIDS SUCH THAT THE MATTER CAN BE CLEARED. TO ASSIST IN THIS PROCESS, THE CONTRACTOR WILL BE REQUIRED TO VISIT THE AREA OF WORK PRIOR TO FINAL BID IN ORDER TO VERIFY ALL EXISTING CONDITIONS PERTAINING TO THE SCOPE OF WORK ENCOMPASSED BY THESE DRAWINGS. THE CONTRACTOR, BY SUBMISSIONS OF THEIR FINAL BID, WILL ACCEPT THESE PLANS AS COMPLETE AND ANY CHANGE ORDERS ON THEIR PART BASED UPON THE ACCEPTED PLANS WILL BE LINACCEPTABLE. 2. ALL PLANS ARE DIAGRAMMATIC UNLESS EXPLICITLY INDICATED OTHERWISE. SHOULD THE CONTRACTOR REQUIRE DIMENSIONS/DETAILS REGARDING BUILDING CONSTRUCTION, THEN SHE/HE WILL REFER TO THE ARCHITECTURAL PLANS. IN ADDITION, THE CONTRACTOR WILL COORDINATE WITH THE ARCHITECTURAL PLANS REGARDING THE LOCATION OF ALL CEILING—MOUNTED DEVICES. 3. ALL EXISTING MECHANICAL SYSTEMS SHOWN ON DRAWINGS ARE BASED ON FIELD-VERIFIED CONDITIONS OBSERVED AT THE SITE AND/OR DESIGN DOCUMENTS PRODUCED AT AN EARLIER DATE. ALL EXISTING DUCTWORK IS INDICATED WITH DASHED LINES, ALL EXISTING TO REMAIN EQUIPMENT IS INDICATED WITH "(E)", EXISTING TO BE REMOVED EQUIPMENT IS INDICATED WITH "(RL)", AND EXISTING, RELOCATED FOUNDMENT IS INDICATED WITH "(RL)", AND EXISTING, RELOCATED FOUNDMENT IS INDICATED WITH "(RL)", AND EXISTING, RELOCATED FOUNDMENT IS INDICATED WITH "(RL)", AND EXISTING TO BE REMOVED FOUNDMENT IN THE REMOVED FOR THE REMOV EQUIPMENT IS INDICATED WITH "(R)". THE DEFINITION OF "EXISTING" HVAC EQUIPMENT WILL INCLUDE ALL THOSE ITEMS REQUIRED TO PROVIDE FOR AN HVAC SYSTEM THAT OPERATES AS REQUIRED BY THE CLIENT AND THE DESIGN DOCUMENTS. ANY EQUIPMENT OR ASSOCIATED APPURIENANCES TO BE DEMOLISHED SHALL BE REMOVED TO THE EXTENTS AS SHOWN ON THE PLANS IN AN APPROVED MANNER. ANY MECHANICAL EQUIPMENT AND APPURITENANCES DISTURBED DURING THE DEMOLITION PERIOD SHALL REPLACED OR REPAIRED SUCH THAT IT IS COMPLETELY OPERATIONAL. IN ADDITION, ALL EXISTING SURFACES NOT RECEIVING NEW FINISHES WHICH ARE DISTURBED DURING EXECUTION OF WORK SHALL BE REPAIRED SUCH AS TO MAKE THE DISTURBED SURFACE MATCH ITS ORIGINAL APPEARANCE; THESE REPAIRS WILL MEET THE APPROVAL OF THE ARCHITECT AND OWNER. 4. ALL MATERIALS AND THEIR INSTALLATION SHALL CONFORM TO IMC, SMACNA, ASME, AND ALL LOCAL CODES APPLICABLE. 5. MECHANICAL CONTRACTOR SHALL PAY FOR AND OBTAIN ANY AND ALL PERMITS AND INSPECTIONS AS REQUIRED BY THE SCOPE OF THIS WORK. 6. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING ALL NEW WORK WITH EXISTING FIELD CONDITIONS; SHOULD A SITUATION ARISE WHERE NEW WORK CONFLICTS WITH EXISTING CONDITIONS, THEN CONTACT THE ENGINEER PRIOR TO THE CONTINUANCE OF WORK REGARDING THIS ITEM. IN ADDITION, THE MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING HER/HIS WORK WITH ALL OTHER TRADES SUCH AS NOT TO ALLOW FOR CONFLICTS BETWEEN THE 7. THE WORK AREA SHALL BE SWEPT AT THE END OF THE WORK DAY AND ALL TRASH AND DEBRIS SHALL BE DISPOSED OF IN A MANNER AS REQUIRED BY THE CLIENT AND/OR OWNER. DURING CONSTRUCTION, THE FUNCTIONING OF ANY OCCUPIED AREAS ADJACENT TO THE WORK AREA WILL CONTINUE DURING THE CONSTRUCTION PHASE WITHOUT INTERRUPTIONS. ANY WORK REQUIRED WITHIN OCCUPIED AREAS WILL BE PERFORMED DURING THOSE TIMES WHEN THE SPACE IS UNOCCUPIED; THE PRIOR APPROVAL OF THE TENANT AND BUILDING MANAGER WILL BE REQUIRED PRIOR TO COMMENCEMENT OF THIS WORK. 8. ALL EQUIPMENT AND MATERIALS PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE NEW; THERE WILL BE ABSOLUTELY NO ALLOWANCE FOR REUSED MATERIAL UNLESS EXPLICITLY INDICATED OTHERWISE BY THE OWNER AND ENGINEER. SHOULD IT BE DETERMINED THAT THE CONTRACTOR IS INSTALLING USED EQUIPMENT WITHOUT PROPER PERMISSION, THEN THEY WILL BE REMOVED FROM THE JOB. IN ADDITION, SUBMITTALS FOR ALL NEW EQUIPMENT AND MATERIAL TO BE PROVIDED BY THE MECHANICAL CONTRACTOR WILL BE TURNED IN TO THE MECHANICAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE PURCHASE OF THESE ITEMS. 9. THE CONTRACTOR IS RESPONSIBLE FOR RESEARCHING THE DRAWINGS IN ORDER TO DETERMINE THE QUANTITY OF ALL MECHANICAL ITEMS REQUIRED. NOTE THAT THE SYMBOLS SHOWN ON THE SCHEDULES DEFINE THE TYPE OF EQUIPMENT ONLY, NOT THE QUANTITY. 10. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIAL IN ORDER TO PROVIDE FOR THE PROPER INSTALLATION OF ALL MECHANICAL EQUIPMENT. DISCREPANCIES AS TO WHAT IS REQUIRED AS OPPOSED TO WHAT IS INDICATED ON THE PLANS WILL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK IN ORDER THAT THE ENGINEER MAY CLARIFY THE INTENTION OF THE DESIGN. THIS MUST BE DONE PRIOR TO THE SUBMISSION OF FINAL BIDS. IF THE CONTRACTOR DOES NOT BRING TO THE ENGINEER'S ATTENTION ANY POTENTIAL DISCREPANCIES PRIOR TO THE SUBMISSION OF FINAL BIDS, THEN THE CONTRACTOR HAS ACCEPTED THE DRAWINGS AS SUFFICIENT AND ANY CHANGE ORDERS DURING THE CONSTRUCTION PHASE WILL NOT BE ACCEPTED. 11. THE CONTRACTOR WILL PROVIDE ALL NECESSARY ACCESSORIES IN ORDER TO ALLOW FOR PROPER AIR BALANCING. BALANCE ALL EQUIPMENT AND DEVICES TO VALUES INDICATED ON THE DESIGN DOCUMENTS. PROVIDE VOLUME DAMPERS AT ALL DUCT TAKE-OFFS (REFER TO DOCUMENTS FOR EXACT LOCATIONS OF DAMPERS AS REQUIRED). SHOULD AN AIR DEVICE BE LOCATED WITHIN A DRY-WALL CEILING, THEN PROVIDE AN INTEGRAL VOLUME DAMPER FOR THIS DEVICE. PROVIDE ACCESS PANELS AT ANY LOCATIONS AS SHOWN ON THE DRAWINGS. THE AIR BALANCING WILL BE PERFORMED BY AN INDEPENDENT AIR BALANCING CONTRACTOR AND WILL BE DONE ON NEBB OR AABC FORMS; THE FINAL REPORT WILL BE STAMPED/SEALED BY THE REGISTERED ENGINEER WHO SUPERVISED THE TESTING. TURN IN THIS FINAL REPORT TO THE DESIGN ENGINEER FOR FINAL REVIEW. 12. THE CONTRACTOR WILL PROVIDE ALL NECESSARY ACCESSORIES IN ORDER TO ALLOW FOR PROPER CHILLED, CONDENSER, OR HOT WATER BALANCING. BALANCE ALL EQUIPMENT TO VALUES AS INDICATED ON THE DESIGN DOCUMENTS. THE WATER BALANCING WILL BE PERFORMED BY AN INDEPENDENT WATER BALANCING CONTRACTOR AND WILL BE DONE ON NEBB OR AABC FORMS; THE FINAL REPORT WILL BE STAMPED/SEALED BY THE REGISTERED ENGINEER WHO SUPERVISED THE TESTING. TURN IN THIS FINAL REPORT TO THE DESIGN ENGINEER FOR FINAL REVIEW. 13. NEW DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS. NEW DUCT WILL BE CONSTRUCTED ACCORDING TO THOSE PARAMETERS AND REQUIREMENTS AS PUT FORTH BY SMACNA. ALL DUCT SHALL BE MOUNTED AS CLOSELY TO THE BOTTOM OF THE DECK/SLAB AS IS PERMISSIBLE. CONFIRM EXISTING FIELD CONDITIONS PRIOR TO THE FABRICATION OF ANY NEW DUCT. PROVIDE 1" THICKNESS, 1.5 PCF DENSITY INTERNAL ACOUSTIC LINER AS REQUIRED ON THE NEW WORK PLANS. MAINTAIN THIS THICKNESS AND DENSITY UNLESS EXPLICITLY INDICATED OTHERWISE ON THE PLANS. ALL EXTERNAL DUCTWORK (TO BE PROVIDED AS INDICATED ON THE DESIGN DOCUMENTS) WILL, UNLESS INDICATED OTHERWISE, BE 1" THICKNESS PAPER/FOIL WITH VAPOR BARRIER. 14. PROVIDE A FLEXIBLE CONNECTION BETWEEN DUCT AND AIR SUPPLY DEVICES AS SHOWN ON PLANS. MAXIMUM FLEXIBLE DUCT CONNECTION SHALL BE 8'-0"; PROVIDE ROUND SHEET METAL EXTENSIONS AS REQUIRED IN ORDER TO MAINTAIN THE 8'-0" REQUIREMENT. 15. ALL MECHANICAL EQUIPMENT AND DEVICES SHALL HAVE FINAL LOCATIONS ADJUSTED IN THE FIELD IN ORDER TO ALLOW FOR LIGHTING FIXTURE AND SPRINKLER PIPING INSTALLATION. CONTRACTOR WILL PROVIDE SHOP DRAWINGS TO THE DESIGN ENGINEER FOR FINAL REVIEW PRIOR TO THE COMMENCEMENT OF WORK.

23. THE CONTRACTOR WILL PROVIDE MOTOR STARTERS, DISCONNECTS, OR ANY OTHER REQUIRED ELECTRICAL DEVICES NEEDED FOR THE PROPER INSTALLATION OF ANY EQUIPMENT WITHIN THE BOUNDS OF THE CONTRACTORS WORK; THE ELECTRICAL CONTRACTOR WILL INSTALL THESE DEVICES AND PROVIDE FINAL CONNECTIONS. THE **HVAC - GENERAL NOTES** ELECTRICAL CONTRACTOR WILL SIMPLY PROVIDE FINAL CONNECTIONS FOR ANY MECHANICAL EQUIPMENT THAT NOTE: REFER TO DESIGN DOCUMENTS FOR ADDITIONAL NOTES. ALL NOTES FOUND ON THESE DOCUMENTS WILL SUPERCEDE THE FOLLOWING NOTES SHOULD THERE BE A CONFLICT. COMES WITH ALL REQUIRED ELECTRICAL DEVICES AS AN INTEGRAL PACKAGE FROM THE MANUFACTURER.

> 24. THE CONTRACTOR WILL INSTALL ALL MECHANICAL EQUIPMENT IN A MANNER SUCH AS TO MAINTAIN THE FACTORY RECOMMENDED CLEARANCES ABOUT THE UNIT TO ALLOW FOR SERVICEABILITY. THE CONTRACTOR WILL, UPON HAVING FOUND FIELD CONDITIONS LIMITING ACCESS TO A MECHANICAL UNIT, CONTACT THE ENGINEER IN ORDER THAT THE MATTER MAY BE RESOLVED PRIOR TO UNIT INSTALLATION.

25. THE CONTRACTOR WILL RETURN TO THE BUILDING OWNER ALL REMOVED SALVAGEABLE MATERIAL.

HVAC-SPECIFICATIONS

ADHERE TO THOSE SECTIONS OF THE FOLLOWING SPECIFICATIONS AS REQUIRED BY THIS JOB.

A. <u>Sheet Metal Ductwork</u>:

- ALL NEW DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL (UNLESS OTHERWISE INDICATED) AND INSTAL— LED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS, 1995" EDITION, 2" PRESSURE CLASS. AUDIBLE LEAK—
- AGE WILL NOT BE ALLOWED. 2. ALL NEW DUCTWORK MUST BE FIELD VERIFIED PRIOR TO FABRICATION, PURCHASE, OR INSTALLATION. NO ALLOWANCE WILL BE MADE FOR DUCTWORK THAT IS NOT USED.
- 3. ALL DUCTWORK DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS. DUCTWORK SIZES SHALL BE INCREASED TO ACCOMODATE 1" INTERNAL LINING WHERE INDICATED ON PLANS. 4. PROVIDE SINGLE THICKNESS TURNING VANES IN ALL DUCTWORK ELBOWS (45° & 90°). TURNING VANES SHALL COMPLY WITH SMACNA STANDARDS, 1995 EDITION.

 5. INSULATION (WHERE EXPLICITLY INDICATED ON DRAWING): INSULATE ALL NEW SUPPLY AND RETURN AIR DUCTWORK WITH 1-1/2" THICK FIBERGLASS DUCT WRAP WITH VAPOR BARRIER IN ACCORDANCE WITH BOCA M-304.0. SEAL SEAMS TOGETHER W/STAPLES AND AN APPROVED MASTIC SEALANT; THE USE OF DUCT TAPE IS NOT ACCEPTABLE.
- 6. ALL SUPPLY, RETURN, AND OUTSIDE AIR DUCTS SHALL BE LINED WITH 1" THICK FIBERGLASS AEROFLEX DUCT LINER WITH SMOOTH NEOPRENE COATED SURFACE, AS SHOWN ON PLANS. APPLY LINER USING ADHESIVE AND SECURE WITH MECHANICAL FASTENERS UTITABLE FOR ADHESIVE, MECHANICAL, OR WELDED ATTACHMENT TO DUCT. DUCT LINER AND ADHESIVE SHALL COADELY WITH NEGA STANDARD OOA.
- 7. FLEXIBLE CONNECTIONS SHALL BE PROVIDED BETWEEN DUCTWORK AND TERMINAL DEVICES.

B. <u>Flexible Ductwork</u>:

- 1. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL NOT EXCEED 8'-0". USE ROUND METAL DUCTWORK WITH INSULATION WHERE NECESSARY TO MEET THIS REQUIREMENT.
 2. FLEXIBLE DUCT SHALL BE FACTORY GLASS FIBER INSULATED ASSEMBLY WITH VAPOR BARRIER JACKET AND MAXIMUM THERMAL CONDUCTANCE OF .23 BTUH/ SQUARE FT. PER "F. IT SHALL BE CONSTRUCTED OF MACHINE WOUND SPIRAL ALUMINUM HELIX OR REINFORCED ALUMINUM FOIL FABRIC MECHANICALLY LOCKED INTO ALUMINUM SPIRAL HELIX.
 3. FLEXIBLE DUCT SHALL BE SUITABLE FOR A 3" W.C. POSITIVE WORKING PRESSURE AND SHALL BE LISTED AS CLASS 1 BY UL AT A FLAME SPREAD NOT TO EXCEED 25 AND SMOKE DEVELOPED NOT OVER 50 AND SHALL COMPLY WITH NFPA 90A.
 4. MANUFACTURERS: GENFLEX TYPE IHPL, THERMAFLEX TYPE M-KC, OR FLEXMASTER TYPE II OR III.
- 5. FLEXIBLE DUCT SHALL BE CONNECTED TO SHEET METAL DUCTWORK WITH STAINLESS STEEL DUCT CLAMP WITH SWIVEL ACTION SCREW OR 100% NYLON SELF-LOCKING DUCT CLAMP BY PANDUIT CORPORATION OR EQUAL.
 6. SPIN-IN DUCT CONNECTION (SEE DETAIL PROVIDED, WHERE APPLICABLE) WITH ROUND DAMPER SHALL BE PROVIDED AT ALL CONNECTIONS DOWNSTREAM OF

. <u>CONDENSATE PIPING</u>:

1. TYPE DMV COPPER SEAMLESS WROUGHT COPPER PIPING. 2. CONDENSATE PIPING SHALL BE FULLY INSULATED WITH 1" THICK FIBERGLASS PIPING INSULATION WITH ALL SERVICE JACKET, VAPOR BARRIER, AND ADHESIVE SEAMS.

3. PIPING SHALL BE PROPERLY SUPPORTED TO PREVENT SAGGING AND SHALL BE PITCHED TOWARDS GRADE.

4, DRAIN CONNECTIONS AT EACH HVAC UNIT SHALL CONSIST OF FULL 3" TRAPS.

A. DRAWN—TEMPER COPPER TUBING: ASTM B 88, TYPE L (ASTM 88M, TYPE B) B. WROUGHT-COPPER FITTINGS: ASME B16.22
C. WROUGHT-COPPER UNIONS: ASME B16.22 D. SOLDER-FILLER METALS: ASTM B 32, 95–5 TIN ANTIMONY E. BRAZING-FILLER METALS: AWS A5.8, CLASSIFICATION BAg–1 (SILVER)

ABBREVIATIONS EXISTING TO REMAIN EXISTING TO BE RELOCATED RELOCATION POINT AIR-CONDITIONING UNIT CONDENSING UNIT ABOVE FINISHED FLOOR AIR—HANDLING UNIT BRITISH THERMAL UNITS/HOUR CIRCUIT BREAKER CEILING DIFFUSER OR CONDENSATE DRAIN CUBIC FEET OF AIR/MINUTE CONNECTION CORRIDOR COLD WATER DIAMETER EACH EXHAUST FAN EXHAUST GRILLE EXHAUST EXISTING FIRE DAMPER FULL LOAD AMPS FLEX FLEXIBLE HEAT PUMP OR HORSEPOWER HEATING, VENT., AIR-COND. HOT WATER (POTABLE) LOCKED ROTOR AMPS MINIMUM CIRCUIT AMPACITY MINIMUM FUSE SIZE OUTSIDE AIR RFTI IRN AIR RETURN GRILLE RATED-LOAD AMPS REVOLUTIONS PER MINUTE SUPPLY AIR SMOKE DETECTOR SUPPLY FAN STATIC PRESSURE

SYMBOLS

NOTE REFERENCE

SUPPLY AIR QUANTITY DESIGNATION EXHAUST/RETURN AIR QUANTITY

OUTSIDE AIR DUCT UP/DOWN

NEW DUCTWORK, SINGLE LINE

FLEX. DUCT CEILING DIFFUSER, SUPPLY; SEE SCHEDULE FOR DETAILS

CEILING REGISTER, RETURN; SEE SCHEDULE FOR DETAILS LINEAR SLOT/FLOWBAR DIFFUSER;

₩ TURNING VANES

PIPE UP/PIPE DOWN DIAMETER FIRE DAMPER

MOTOR OPERATED DAMPER

 \bigcirc SMOKE DETECTOR UNDERCUT DOOR 1"

THERMOSTAT/HUMIDISTAT CONNECT NEW TO EXISTING

175 DESIGNATION RETURN/SUPPLY DUCT UP

NEW DUCTWORK, DOUBLE LINE 1.5 PCF DENSITY UNLESS OTHERWISE

OTTO A

SEE SCHEDULE FOR DETAILS VOLUME DAMPER

EHXAUST/TRANSFER FAN

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00/00/00 REVISION DESCRIPTION MARK DATE DESCRIPTION MEP ENGINEER DIVERSIFIED CONSULTING ENGINEERS, LLC PHONE: (301) 641-5823 MOHAMED BUNDU, P.E., LEED AP BUNDU1@VERIZON.NET CONSULTANT PROJECT TITLE DESCRIPTION **SEAL** SHEET TITLE

HVAC - GEN. NOTES, SPECS ABBREVS, & SYMS.

09/29/16 RELEASED FOR MEP WORK

09/27/16 | CLIENT REVIEW PRELIMS ARK DATE DESCRIPTION PROJECT NO: JERNS-001-16 DATE: 09/27/16 AS NOTED DRAWN BY: MMB | FINAL REVIEW: MMB

ACCESS DOORS REQUIRED.

16. THE CONTRACTOR WILL PREPARE AND SUBMIT TO A REGISTERED STRUCTURAL ENGINEER FOR REVIEW THE LOCATIONS OF ALL MECHANICAL EQUIPMENT AND THEIR RESPECTIVE WEIGHTS AND PROPOSED METHOD OF INSTALLATION. IN ADDITION, THIS DRAWING WILL INDICATE ALL PENETRATIONS THRU WALLS AND SLABS. THE CONTRACTOR WILL NOT PROCEED WITH EQUIPMENT INSTALLATION UNTIL THE REGISTERED STRUCTURAL ENGINEER HAS REVIEWED AND APPROVED 17. ALL EQUIPMENT LOCATED WITHIN THE RETURN AIR PLENUM SHALL BE SUITED FOR INSTALLATION WITHIN THIS

> UNLESS OTHERWISE NOTED UP THRU ROOF

VOLUME DAMPER

UON

SMOKE WILL NOTIFY BUILDING FIRE CONTROL SYSTEM AND CLOSE CORRESPONDING SMOKE DAMPER. ALL PIPING PENETRATING FIRE OR SMOKE-RATED PARTITIONS WILL BE SAFED IN AN APPROPRIATE MANNER WITH AN APPROVED SAFING MATERIAL. 20. ALL SUPPLY/RETURN SIDES OF ANY MECHANICAL DEVICES OVER 2000 CFM OR 90 MBH CAPACITY WILL HAVE SMOKE DETECTORS. ALL SMOKE DETECTORS, UPON ACTIVATION, WILL SHUT DOWN CORRESPONDING UNIT AND NOTIFY THE BUILDING FIRE CONTROL SYSTEM. WIRE ALL DETECTORS TO THE FIRE ALARM CONTROL PANEL. PROVIDE SMOKE DETECTOR INDICATING LIGHTS (2 LEDs - 1 RED AND 1 AMBER) AND AN AUDIBLE. AMBER LED SHALL BE LABELED "AIR DUCT DETECTOR TROUBLE" AND WILL BE INTERLOCKED TO INDICATE TROUBLE CONDITIONS. THE RED LED SHALL BE LABELED "ALARM" AND SHALL BE INTERLOCKED (ALONG WITH THE AUDIBLE)

18. ALL INSTALLED EQUIPMENT AND MATERIAL SHALL NOT GENERATE SOUND/VIBRATION LEVELS GREATER THAN

19. ALL DUCT PENETRATING A FIRE—RATED ASSEMBLY SHALL BE PROVIDED WITH A FIRE DAMPER WITH RATING AT LEAST EQUAL TO THE PARTITION PENETRATED; ALL DUCT PENETRATING A SMOKE—RATED PARTITION WILL HAVE, AT

THE PENETRATION POINT, A SMOKE DETECTOR/DAMPER ASSEMBLY. THIS ASSEMBLY, AFTER HAVING DETECTED

TO INDICATE AN ALARM CONDITION. MOUNT INDICATORS (VISUAL AND AUDIBLE) IN AREA APPROVED BY THE

(STAMPED/SEALED) ALL DRAWINGS SUBMITTED BY THE CONTRACTOR.

THOSE ADVERTISED BY THEIR RESPECTIVE MANUFACTURER.

21. ALL THERMOSTATS WILL BE PROVIDED WITH CLEAR LOCKING COVERS. ALL THERMOSTATS LOCATED AT EXTERIOR WALLS WILL BE PROVIDED WITH INSULATED SUB-BASES AND MOUNTED 48" ABOVE FINISHED FLOOR. 22. THE CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS FOR THOSE MECHANICAL UNITS THAT ARE CONCEALED BEHIND CEILING FINISHES THAT ARE NOT ORIGINALLY INTENDED TO BE DISMANTLED; COORDINATE WITH THE ARCHITECT REGARDING ACCESS DOOR FINISHES. REFER TO THE ENGINEERING PLANS FOR DIMENSIONS OF