D2 KEYNOTES

23.101 ROUTE NEW SPIRAL DUCT THROUGH JOIST. PROVIDE TRANSITION AS NECESSARY. ALL EXPOSED TO VIEW DUCTWORK SHALL BE PAINTED BY OTHER DIVISIONS.

23.102 PROVIDE NEW 7-DAY PROGRAMMABLE THERMOSTAT, AND CONNECT TO RTU. MOUNT THERMOSTAT AT 48" AFF TYPICAL. PROVIDE TRANSPARENT PROTECTIVE COVERS FOR T-STATS IN OPEN AREAS.

23.103 TYPICAL BRANCH TAKE-OFF AND FLEXIBLE DUCT CONNECTION DETAIL, REFER TO DETAILS E2, E4, C1, & C2/M201. ALL DUCTWORK SHALL BE INSULATED. PROVIDE VOLUME CONTROL DAMPERS FOR EACH GRILLE AND DIFFUSER. REFER TO DETAIL E3/M501.

23.104 PROVIDE PLENUM RETURN PER DETAIL B3/M201.

23.105 PROVIDE NEW ROOFTOP UNIT (RTU) AS SCHEDULED ON SHEET M301. MOUNT UNIT ON UNIT SUPPLIER'S INSULATED VERTICAL DISCHARGE CURB. REFER TO DETAIL A3/M201. PROVIDE DUCT MOUNTED SMOKE DETECTOR ON RETURN AIR PLENUM FOR ALL UNITS THAT ARE ABOVE 2000 CFM SUPPLY AIR.

23.106 PROVIDE SPIRAL DUCT FOR ALL DUCT IN AREAS WITH EXPOSED ROOF STRUCTURE. WHERE DUCT CROSSES FROM LAY-IN TO EXPOSED CEILING, TRANSITION TO SPIRAL DUCT BEFORE PENETRATING WALL INTO AREA WITH EXPOSED CEILING. REFER TO DETAIL A5/M201 FOR SPIRAL DUCT AND DIFFUSER DETAIL.

23.107 PROVIDE INSULATED SHEET METAL DUCTWORK AND AIR DEVICES FOR HVAC SYSTEM. REFER TO DETAILS C1, C2, C3, E1, E2, E3 & E4/M201 FOR DUCTWORK AND AIR DEVICE CONNECTIONS.

23.108 PROVIDE INTERNALLY LINED RETURN AIR PLENUMS AT RETURN AIR GRILLES THAT ARE 24" X 24" OR GREATER. PAINT INTERIOR MATTE BLACK. REFER TO DETAIL C2/M201.

23.109 PROVIDE INTERNALLY LINED RETURN AIR PLENUMS AT RETURN AIR GRILLES THAT ARE 24" X 12" OR GREATER. PAINT INTERIOR MATTE BLACK. REFER TO DETAIL C2/M201.

23.110 PROVIDE 2" INTERNALLY LINED NOISE REDUCING RETURN AIR DUCT WITH A MINIMUM OF TWO 90° ELBOWS, MINIMUM 48" LENGTH, AND FULL SIZE OPENING ABOVE CEILING. REFER TO DRAWINGS FOR DUCT AND OPENING SIZE. PROVIDE 3/4" FLANGED FRAME,HARDWARE CLOTH (1"x1" GRID) SECURE WITH CONTINUOUS 1" GALVANIZED STRAPS AND SCREWS 8" OC.

23.111 ROUTE TOP OF SPIRAL DUCT TIGHT TO THE BOTTOM OF THE JOISTS IN AREAS WHERE DUCTWORK IS EXPOSED TO VIEW.

23.112 REMOVE EXISTING DIFFUSER FROM THIS LOCATION. CAP AND SEAL OPENING AIR-TIGHT.

23.113 DEMOLISH EXISTING DUCT, SHOWN DASHED, BACK TO POINT INDICATED. CAP AND SEAL ANY DUCT OPENINGS AIR-TIGHT.

23.114 PROVIDE FCU-2, HIGH WALL MOUNTED DUCTLESS MINI-SPLIT SYSTEM AS SCHEDULED ON SHEET M301. CONNECT TO CU-2 MOUNTED ON ROOF. ROUTE CONDENSATE DRAINS TO MOP SINK IN JAN RM 1075 REFER SHEET P101. PROVIDE CONCEALED REFRIGERANT PIPING WITH REFRIGERANT SUCTION RISER TRAP TO RETURN OIL TO CONDENSING UNIT. MOUNT BOTTOM OF UNIT 72" AFF.

23.115 PROVIDE CONDENSATE REMOVAL PUMPS FOR MINI-SPLIT SYSTEMS FCU'S 1 & 2. PROVIDE LITTLE GIANT EC-400 OR APPROVED EQUAL, 2.5 GPH IN-PAN, 115V, 19W CONDENSATE REMOVAL PUMP WITH LEAK DETECTION UNIT INSTALLATION KIT (3 LEVEL FLOAT ON/OFF.ALARM), MOUNTING RAIL, VIBRATION DAMPER BRACKET, 1½" DEEP CONDENSATE PAN AND MANUFACTURE'S RECOMMEND DRAIN. UNIT SHALL PROVIDE 2.5 GPH MAX FLOW RATE, 3 FT. MAX LIFT SUCTION HEAD AND 10 FT. MAX DISCHARGE HEAD. UNIT TO BE LOCATED AND CONCEALED ABOVE CEILING.

23.116 CONNECT NEW EXHAUST DUCT TO EXISTING ROOF CAP.

23.117 PROVIDE FCU-1, HIGH WALL MOUNTED DUCTLESS MINI-SPLIT SYSTEM AS SCHEDULED ON SHEET M301. CONNECT TO CU-1 MOUNTED ON ROOF. ROUTE CONDENSATE DRAINS TO MOP SINK IN JAN RM 1075 REFER SHEET P101. PROVIDE CONCEALED REFRIGERANT PIPING WITH REFRIGERANT SUCTION RISER TRAP TO RETURN OIL TO CONDENSING UNIT. MOUNT BOTTOM OF UNIT 72" AFF.

23.118 RELOCATE EXISTING 7-DAY PROGRAMMABLE THERMOSTAT TO LOCATION SHOWN, AND VERIFY ITS CONNECTED TO ASSOCIATED RTU. MOUNT THERMOSTAT AT 48" AFF TYPICAL.

23.119 CUT EXISTING DUCT MAIN AT THE LOCATION SHOWN. SLIDE DUCT 13' SOUTH AND ADD NEW SECTION OF SPIRAL DUCT TO ENSURE PROPER AIRFLOW. COORDINATE DUCT RELOCATION WITH STRUCTURE, ELECTRICAL CONDUIT, AND ALL PIPING. PROVIDE DUCT TRANSITIONS, PIPING TRANSITIONS OR ELECTRICAL CONDUIT TRANSITIONS AS NECESSARY. REMOVE AND REATTACH DIFFUSERS AS NECESSARY. CAP AND SEAL END OF RELOCATED DUCT AS SHOWN.

23.120 CONNECT NEW BRANCH DUCT TO EXISTING ROUND DUCT.

23.121 EXISTING SPIRAL DUCT MAIN IN THIS AREA TO BE REUSED. REFER KEYNOTE 23.119 ABOVE.

23.122 CUT EXISTING DUCT EXISTING DUCT MAIN BACK TO POINT INDICATED. CAP AND SEAL AIR-TIGHT.

D5 GENERAL NOTES

A. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH LATEST EDITIONS OF ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES, AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

B. CONTRACTOR TO FURNISH, INSTALL, PROVIDE AND MAKE OPERATIVE ALL EQUIPMENT, MATERIALS, SUPERVISION, LABOR AND ANY AND ALL ITEMS NECESSARY, INCLUDING FEES AND PERMITS, FOR THE PROPER INSTALLATION AND CORRECTLY FUNCTIONING HEATING, VENTILATION, AIR CONDITIONING AND PLUMBING SYSTEMS AS INDICATED ON THESE DRAWINGS AND IN THE SPECIFICATIONS.

C. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ACCEPTABLE MANUFACTURERS SHALL BE AS NOTED FOR EQUIPMENT SCHEDULED, UNLESS OTHERWISE NOTED.

D. THE LOCATION OF DUCTS, PIPE AND EQUIPMENT, AS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES BEFORE INSTALLATION. LIGHT FIXTURE LOCATIONS SUPERSEDE HVAC DUCTWORK, GRILLES AND DIFFUSERS. OFFSET AS REQUIRED TO AVOID STRUCTURE AND/OR ANY OTHER EXISTING PIPING THAT IS TO REMAIN IN THE SPACE. IF OFFSET OF DUCTWORK IS NOT PRACTICAL TO AVOID ANY EXISTING PIPING, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OFFSET OR RELOCATE ANY EXISTING PIPING TO MAKE ROOM FOR DUCTWORK.

E. DUCT HANGERS FOR HORIZONTAL DUCT SHALL NOT BE OVER 8'-0" O.C. DUCT HANGERS SHALL EXTEND TO THE BOTTOM OF THE DUCT PER SMACNA STANDARDS. REFER DETAILS E1 & C3/M201.

F. PROVIDE DUCT INSULATION FOR ALL SUPPLY AND RETURN AIR DUCTS PER LATEST ADDITION OF SMACNA STANDARDS AND AS INDICATED IN THE SPECIFICATIONS.

G. INSTALL TURNING VANES IN ALL RECTANGULAR 90° ELBOWS IN SUPPLY AND RETURN DUCTWORK.

H. DUCTWORK DIMENSIONS SHOWN ON THE PLAN ARE NET FREE AND CLEAR INSIDE DIMENSIONS.

J. WHEN FLEXIBLE DUCT AND/OR FLEX CONNECTORS ARE USED IN CONJUNCTION WITH RIGID SHEET METAL DUCT. INSTALLATION SHALL CONFORM TO ALL GOVERNING CODES. FLEX DUCT SHALL BE IN STRAIGHT RUNS NOT TO EXCEED 5'-0" IN LENGTH. FLEX DUCT IS NOT ALLOWED IN EXPOSED CEILING AREAS.

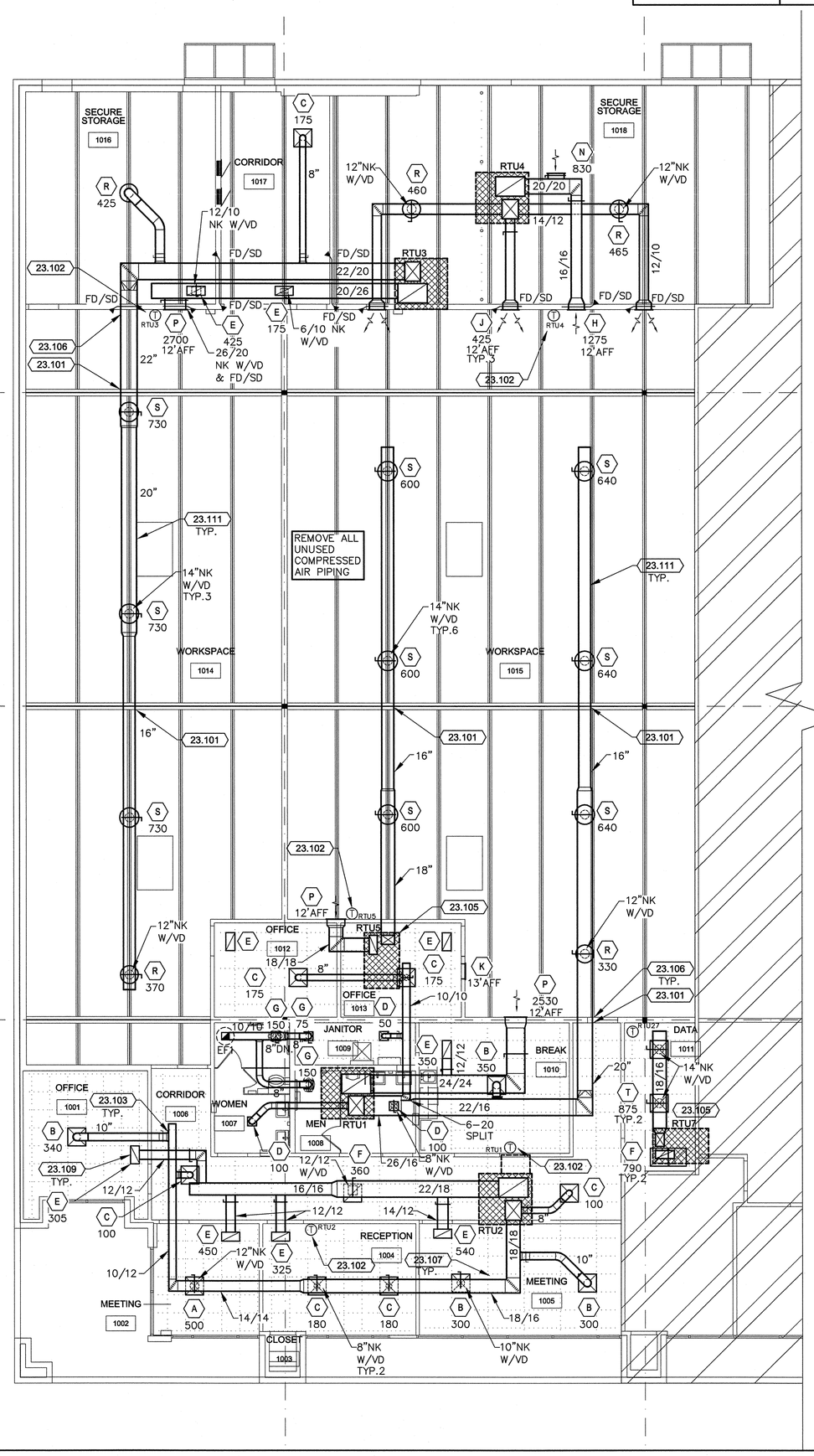
K. REFER TO SHEET M601 FOR HVAC EQUIPMENT AND AIR DEVICE SCHEDULES.

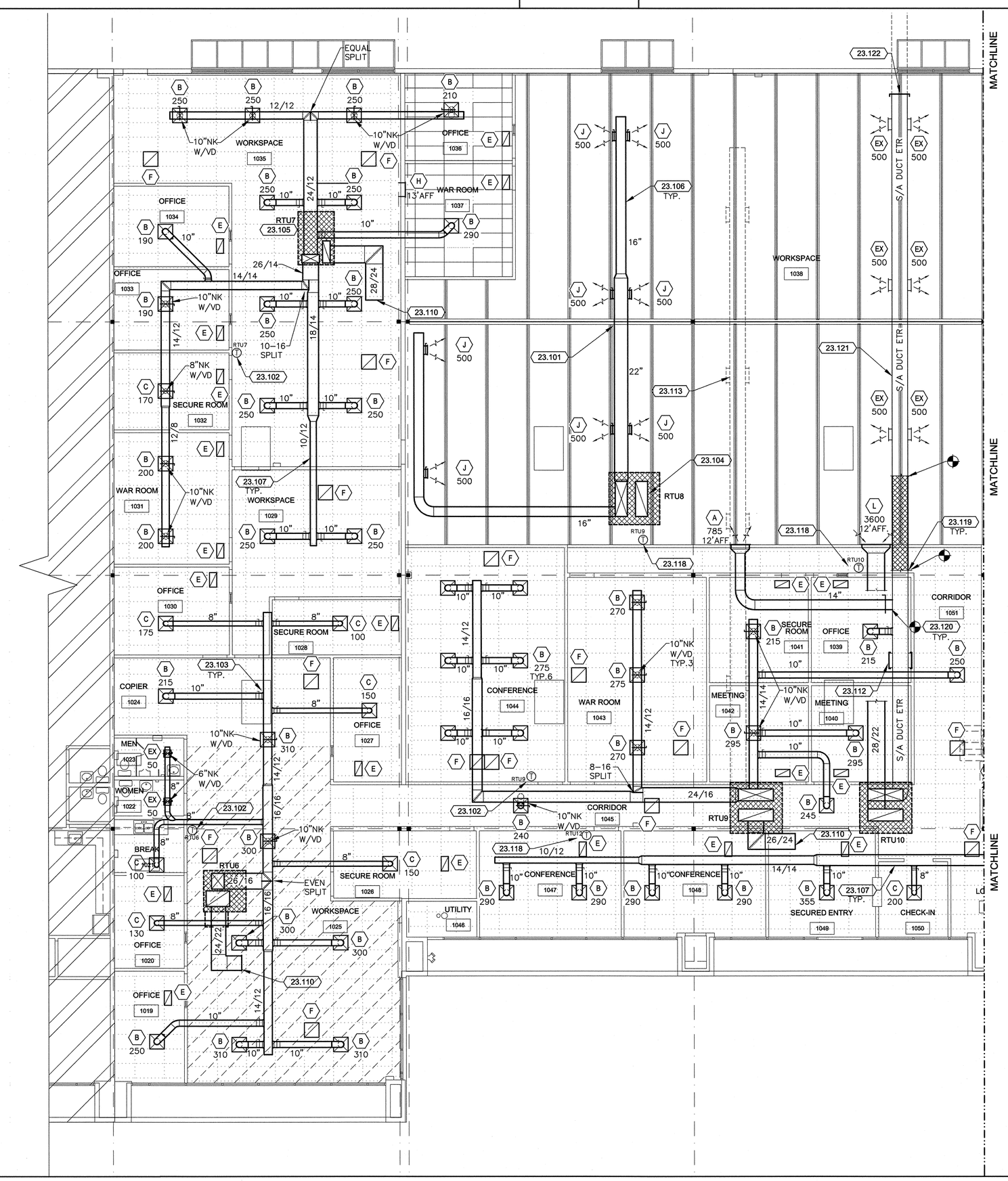
L. OWNER IS RESPONSIBLE FOR RECONDITIONING ALL MECHANICAL EQUIPMENT TO BE REUSED. RECONDITIONING EQUIPMENT MUST BE PERFORMED TO ENSURE PROPER WORKING ORDER, AND MANUFACTURER DESIGNED PERFORMANCE. HVAC SYSTEM WAS DESIGNED WITH MECHANICAL EQUIPMENT OPERATING PROPERLY AND PERFORMING UP TO MANUFACTURER SPECIFICATIONS. ENGINEER OF RECORD WILL NOT BE HELD RESPONSIBLE FOR AIR DISCOMFORT ASSOCIATED TO POOR PERFORMANCE OF EXISTING MECHANICAL EQUIPMENT.

M. MECHANICAL SYSTEM WAS DESIGNED USING OWNER PROVIDED RTU MODELS AND LOCATIONS. IF ACTUAL LOCATION OF UNIT IS NOT AS SHOWN, CONTRACTOR TO COORDINATE IN FIELD, AND PROVIDE ANY MATERIALS ASSOCIATED WITH THIS COORDINATION.

N. REMOVE ALL EXISTING DUCTWORK NOT SHOWN AS EXISTING TO REMAIN (ETR). DO NOT REUSE ANY DUCT BOARD, IF REMOVED DUCT BOARD NEEDS TO BE USED FOR THIS DESIGN, REPLACE WITH INSULATED METAL DUCT PER SPECIFICATIONS.

P. PROVIDE ROUND, INTERNALLY LINED SPIRAL DUCT FOR ALL AREAS WHERE DUCT IS EXPOSED TO VIEW. PAINT PER ARCHITECT.





A1 HVAC FLOOR PLAN

1/8"=1'-0"

A1-M101

NORTH

SELSER SCHAEFER ARCHITECTS, INC.
1350 S. BOULDER AVENUE
SUITE 1100
TULSA, OK 74119-3204
918.587.2282
FAX 918.587.2285
SELSERSCHAEFER.COM

MPW ENGINEERING, LLC
110 West 7th Street • Suite 600
Tulsa, Oklahoma 74119
(918) 582-4088
(918) 582-4087 FAX
CA #2940
EXP 06-30-11

CHEROKEE NATION. Entertainment

CNE INTERCHANGE PARK TENANT IMPROVEMENT

10838 EAST MARSHALL STREET, TULSA, OKLAHOMA 74116

ISSUE 01

ISSUE DATE 11.05.10

PROJECT NO. R10.053

DRAWN BY AMM, MBM

CHECKED BY DAD, MEC

SHEET TITLE ENLARGED HVAC PLANS

REGISTERED PROFESSIONAL ENGINEER MARTIN B. WATTS 20483 OKLAHOMA 11-4-10

M102

© 2010 Selser Schaefer Architects, Inc.