THIS DRAWING IS PROVIDED FOR REFERENCE ONLY TO IDENTIFY
EXISTING EQUIPMENT AND SHOW GENERAL EXISTING CONDITIONS.

UNIT REPLACEMENT SCOPE:

TWO CARRIER 10-TON SPLIT INDOOR UNITS INSTALLED IN 2012.
REPLACE LIKE FOR LIKE AND UPDATE OA CFM PER SCHEDULE.
INSTALL WITH NEW DISCONNECT SWITCH, ELECTRICAL BREAKER,
AND WIRING

ONE CARRIER 3-TON SPLIT INDOOR UNITS INSTALLED IN 2012.
REPLACE LIKE FOR LIKE AND UPDATE OA CFM PER SCHEDULE.
INSTALL WITH NEW DISCONNECT SWITCH, ELECTRICAL BREAKER,
AND WIRING

TWO CARRIER 10-TON SPLIT OUTDOOR UNITS INSTALLED IN 2012. REPLACE
LIKE FOR LIKE. INSTALL WITH NEW DISCONNECT SWITCH,
ELECTRICAL BREAKER, AND WIRING

ONE CARRIER 3-TON SPLIT OUTDOOR UNIT INSTALLED IN 2017. REPLACE
WITH LIKE FOR LIKE.

FCU-1, 2: REUSE EXISTING CIRCUIT BREAKER AND WIRE RETAIN EXISTING CONTROL WIRING FROM OLD UNIT AND RECONNECT AND EXTEND AS NECESSARY TO NEW UNIT. RETAIN EXISTING CONTROL WIRING FROM OLD UNIT AND RECONNECT AND EXTEND AS NECESSARY TO NEW UNIT.

FCU-3: PROVIDE NEW 50A, 2-POLE CIRCUIT BREAKER WITH AIC RATING TO MATCH EXISTING PANELBOARD AIC RATING OR PROVIDE LOCAL 60A/2-POLE-50AF FUSED DISCONNECT SWITCH AND REUSE EXISTING 60A CIRCUIT BREAKER. REUSE EXISTING WIRING AND RETAIN EXISTING CONTROL WIRING FROM OLD UNIT AND RECONNECT AND EXTEND AS NECESSARY TO NEW UNIT.

CU-1, 2: REUSE EXISTING CIRCUIT BREAKER AND WIRE. PROVIDE 30A, 3-POLE NON-FUSED NEMA 3R DISCONNECT SWITCH. EXISTING MAY BE REUSED IF AS SPECIFIED.

CU-3: PROVIDE NEW 25A, 2-POLE CIRCUIT BREAKER AIC RATING TO MATCH EXISTING PANELBOARD AIC RATING OR PROVIDE LOCAL 30A/2-POLE-25AF NEMA 3R FUSED DISCONNECT SWITCH AND REUSE EXISTING 35A CIRCUIT BREAKER. REUSE EXISTING WIRING AND RETAIN EXISTING CONTROL WIRING FROM OLD UNIT AND RECONNECT AND EXTEND AS NECESSARY TO NEW UNIT

SUPPLY DUCTWORK AND RETURN PLENUM ARE EXISTING TO REMAIN. TRANSITION EXISTING DUCTWORK AS REQUIRED INTO NEW UNITS.

MECHANICAL PLAN NOTES

1 DX SPLIT SYSTEM FAN COIL UNIT IS EXISTING AND SHALL REMAIN. CONTRACTOR SHALL VERIFY UNIT CONDITION AND REPAIR/REPLACE AS NECESSARY TO LIKE NEW CONDITIONS. PROVIDE A NEW SET OF MERV 13 FILTERS AT COMPLETION OF CONSTRUCTION.

2 DX SPLIT SYSTEM CONDENSING UNIT IS EXISTING AND SHALL REMAIN. CONTRACTOR SHALL VERIFY UNIT CONDITION AND REPAIR/REPLACE AS NECESSARY TO LIKE NEW CONDITIONS.

3 DUCT MOUNTED SMOKE DETECTORS ARE EXISTING AND SHALL REMAIN. SMOKE DETECTORS SHALL SHUT-DOWN UNIT UPON ALARM. VERIFY SMOKE DETECTORS ARE OPERATIONAL AND COORDINATE REPLACEMENT WITH DIVISION 28 AS NECESSARY.

4 NEW INTAKE LOUVER. COORDINATE LOCATION AND ELEVATION WITH ARCHITECTURAL DRAWINGS. CONNECT DUCTWORK TO NEW PLENUM PER MECHANICAL DETAILS.

5 LOUVER AND DUCT PLENUM ARE EXISTING TO REMAIN. VERIFY PLENUM IS INSULATED PER SPECIFICATIONS AND REPAIR/REPLACE AS NECESSARY TO MEET SPECIFICATIONS.

6 ROUTE NEW EXHAUST AIR DUCTWORK TO EXISTING WALL-MOUNTED EXHAUST AIR LOUVER. FIELD VERIFY EXACT SIZE, ELEVATION, AND LOCATION OF EXHAUST LOUVER AND ADJUST NEW DUCT ROUTING TO MATCH. PROVIDE INSULATION ON EXHAUST AIR DUCTWORK PER SPECIFICATIONS.

7 ROUTE NEW OUTSIDE AIR DUCTWORK TO NEW WALL-MOUNTED INTAKE AIR LOUVER. FIELD VERIFY EXACT SIZE, ELEVATION, AND LOCATION OF INTAKE LOUVER AND ADJUST NEW DUCT ROUTING TO MATCH. PROVIDE INSULATION ON OUTISDE AIR DUCTWORK PER SPECIFICATIONS.

8 PROVIDE NEW DX SPLIT SYSTEM FAN COIL UNIT AS SCHEDULED SUPPORTED FROM STRUCTURE ABOVE. COORDINATE CONDENSATE PIPING WITH DIVISION 25. PROVIDE A NEW SET OF MERV 13 AIR FILTERS IN UNIT BEFORE TURNING SYSTEM OVER TO OWNER.

9 PROVIDE NEW DX SPLIT SYSTEM CONDENSING UNIT AS SCHEDULED SUPPORTED OF ROOF EQUIPMENT RAILS. COORDINATE EXACT LOCATION ON ROOF WITH LANDLORD PRIOR TO INSTALLATION. COORDINATE CONDENSATE PIPING WITH DIVISION 25.

10 VERIFY EXISTING DX FAN COIL UNITS ARE INSTALLED WITH AUXILIARY DRAIN PAN. COORDINATE WITH DIVISION 26 TO PROVIDE NEW DRAIN PANS FOR ALL DX FAN COIL UNITS WITHIN SPACE, AS NECESSARY.

11 PROVIDE NEW VAV BOX IN SUPPLY AIR DUCT SERVING FITTING ROOMS. INSTALL VAV BOX IN ACCESSIBLE LOCATION AND COORDINATE CONTROLS WITH EMS VENDOR PRIOR TO ORDERING.

12 ACCESS TO HVAC EQUIPMENT SHALL BE FROM LAY-IN CEILING. NO CEILING DEVICES SHALL BE PLACED IN THIS LOCATION. COORDINATE FINAL INSTALLED LOCATION SUCH THAT THE HVAC EQUIPMENT REMAINS ACCESSIBLE. VERIFY NO OTHER PIPING, ELECTRICAL CONDUIT, STRUCTURE, AND/OR CEILING SUPPORTS IMPEDE ACCESS IN ANY WAY. INSTALL HVAC EQUIPMENT WITHIN 24 ABOVE CEILING FOR SERVICEABILITY.

13 SMOKE DETECTORS AND WIRING IN SUPPLY AND RETURN AIR DUCTS SHALL BE PROVIDED BY DIVISION 28 CONTRACTOR. SMOKE DETECTORS SHALL SHUT-DOWN UNIT UPON ALARM.

14 PROVIDE NEW IN-LINE EXHAUST FAN AS SCHEDULED FOR GENERAL RESTROOM EXHAUST.

15 EXHAUST FAN SERVES TO PROVIDE TRANSFER AIR ONLY AND SHALL DISCHARGE AIR INTO THE STOCKROOM.

16 INSTALL VAV POWER MODULE FOR CONTROL OF OFFICE VAV DIFFUSERS IN AN ACCESSIBLE LOCATION ABOVE THE CEILING. DIVISION 26 CONTRACTOR SHALL PROVIDE 120V POWER TO MODULE. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.

17 ROUTE REFRIGERANT LINES DOWN THROUGH EXISTING PIPE PORTAL AND ROUTE TO ASSOCIATED FAN COIL UNIT WITHIN SPACE BELOW.

18 THERMOSTATS AND SENSORS FURNISHED BY EMS VENDOR AND INSTALLED BY DIVISION 26 UNLESS NOTED OTHERWISE.

19 DO NOT INSTALL SENSORS ON WALL GRAPHICS. CONFIRM LOCATIONS OF SENSORS WITH PM PRIOR TO INSTALL.

20 INSTALL DAMPER AND ACTUATOR IN LOCATION INDICATED. DAMPER FURNISHED BY DIVISION 23. ACTUATOR FURNISHED BY EMS VENDOR.

21 PROVIDE DUCT STATIC PRESSURE SENSOR IN LOCATION SHOWN FOR CONTROL OF OUTSIDE AIR SUPPLY FAN. COORDINATE CONTROLS WITH EMS VENDOR PRIOR TO CONSTRUCTION.

22 DX FAN COIL UNIT CONTROLS ARE EXISTING AND SHALL BE USED FOR TEMPORARY CONTROL UNTIL EMS SYSTEM IS INSTALLED. LOCATIONS OF THERMOSTATS AND SENSORS ON PLAN INDICATE NEW DEVICES BY EMS VENDOR. COORDINATE LOCATIONS OF TEMPORARY DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.

23 ROUTE NEW DX SPLIT REFRIGERANT PIPING TIGHT TO DECK TO EXISTING ROOF PENETRATION RISER SERVING OTHER HVAC SYSTEMS. COORDINATE EXACT LOCATION OF EXISTING PIPE RISERS AND ROOF PORTAL PRIOR TO INSTALLATION.

24 PROVIDE ALL NECESSARY ACCESSORIES, CONNECTIONS, AND PIPE SUPPORTS FOR CONNECTION TO HVAC EQUIPMENT.

25 EQUIPMENT CONDENSATE PIPING BY DIVISION 25. REFER TO PLUMBING DRAWINGS FOR CONDENSATE ROUTING.

26 DO NOT ROUTE PIPING OVER ELECTRICAL EQUIPMENT.

27 DX REFRIGERANT PIPING IS EXISTING TO REMAIN. RELOCATE REFRIGERANT PIPING TIGHT TO DECK ABOVE SALES FLOOR AS NECESSARY. ROUTE ALL NEW PIPING IN A NEAT AND ORDERLY FASHION. COORDINATE ROUTING WITH OTHER PIPING, DUCTWORK, CONDUIT, LIGHTS, STRUCTURE, ETC. PRIOR TO INSTALLATION.

28 ROUTE SHEET METAL RETURN AIR DUCT AS SHOWN WITH TERMINATION DIRECTED UPWARD. SIZE PLENUM FULL SIZE OF RETURN AIR INLET. PROVIDE DUCT LINER IN RETURN AIR DUCTWORK FOR SOUND ATTENUATION. COVER INLET WITH 1/2X1/2 BIRD SCREEN.

29 DO NOT ROUTE DUCTWORK OVER ELECTRICAL EQUIPMENT.

30 ROUTE DUCTWORK TIGHT TO STRUCTURE.

31 PROVIDE PANTS FITTING DUCTWORK CONNECTION PRIOR TO ELBOWS OR DUCT CONNECTIONS.

32 COORDINATE DUCT ROUTING WITH LIGHTS AND STRUCTURE.

33 INSTALL SALES FLOOR DUCT MAINS 12" BELOW UNDERSIDE OF DECK. ROUTE TIGHT TO WALLS AND OTHER DUCT MAINS WHERE SHOWN.

34 LOUVERED DOOR FOR RELIEF AIR BY GENERAL CONTRACTOR. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

35 INSTALL DUCT-MOUNTED DIFFUSERS WITH BLADES ANGLED AT 45° TOWARDS THE SALES FLOOR.

36 PROVIDE DRYWALL PLAQUE DIFFUSERS IN FITTING ROOM CEILINGS AS SCHEDULED ON SHEET M-300. COORDINATE INSTALLATION AND EXACT LOCATIONS WITH OTHER CEILING DEVICES AND ARCHITECT PRIOR TO INSTALLATION.

37 PROVIDE NEW IN-LINE SUPPLY FAN FOR OUTSIDE AIR VENTILATION. REFER TO MECHANICAL CONTROLS ON SHEET M-301 FOR MORE INFORMATION.

38 ACCESS TO HVAC EQUIPMENT SHALL BE THROUGH ADJACENT SUPPLY DIFFUSER. INSTALL DIFFUSER WITH FULL 5'-0" OF FLEXIBLE DUCTWORK FOR EASY REMOVAL FOR ACCESS TO EQUIPMENT ABOVE. COORDINATE DIFFUSER AND EQUIPMENT LOCATION PRIOR TO CONSTRUCTION.

39 COORDINATE WITH ARCHITECTURAL DRAWINGS TO PROVIDE CEILING ACCESS PANEL FOR SERVICE OF HVAC EQUIPMENT. ACCESS PANEL MUST BE LOCATED WITHIN 18" OF HVAC EQUIPMENT. COORDINATE SERVICE ACCESS REQUIREMENTS WITH MANUFACTURER TO ENSURE EQUIPMENT IS FULLY SERVICEABLE.

40 ROUTE NEW REFRIGERANT PIPING TO EXISTING RISER CHASE. FIELD COORDINATE RISER LOCATION AND ADJUST ROUTING TO MATCH.

41 NEW FIRE DAMPERS BY DIVISION 28 CONTRACTOR. DUCTWORK PENETRATES A FIRE-RATED WALL.

THE DUCTWORK LAYOUT INDICATED ON THE DRAWINGS IS SCHEMATIC AND SHOWS DESIGNED INTENT ONLY. PRIOR TO FABRICATION AND INSTALLATION OF DUCTWORK, DIVISION 23 SHALL HAVE A QUALIFIED, EXPERIENCED SKETCHER PREPARE AND SUBMIT SHEET METAL SHOP DRAWINGS. SHOP DRAWINGS SHALL TAKE INTO ACCOUNT ALL EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO, STRUCTURAL MEMBERS, CONDUITS AND PIPING TO REMAIN. SHOP DRAWINGS SHALL ALSO TAKE INTO ACCOUNT ALL NEW DESIGN CONDITIONS, INCLUDING BUT NOT LIMITED TO, STRUCTURAL MEMBERS, PIPING, CEILINGS, SOFFIT HEIGHTS, AND LIGHT FIXTURES.

SHOP DRAWINGS SHALL INDICATE ALL REVISIONS TO THE LAYOUT REQUIRED TO ACCOMMODATE THE EXISTING CONDITIONS AND/OR MAINTAIN THE CEILING HEIGHTS AND CLEARANCES REQUIRED. NOTIFY THE ARCHITECT AND ENGINEER OF ANY LOCATION WHERE THE DESIGN INTENT CANNOT BE MET PRIOR TO FABRICATION AND INSTALLATION OF DUCTWORK. REVISIONS TO DUCTWORK, EQUIPMENT, CONDUIT AND/OR PIPING REQUIRED BY CONTRACTOR'S FAILURE TO SUBMIT PROPERLY PREPARED SHOP DRAWINGS SHALL BE THE RESPONSIBILITY OF DIVISION 23 AT NO ADDITIONAL COST TO THE CLIENT OR DELAY TO THE PROJECT SCHEDULE.

GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING TO ARCHITECT, ENGINEER, LANDLORD, AND BUILDING OFFICIAL/INSPECTOR A FINAL TEST AND BALANCE REPORT PER THE SPECIFICATIONS. PROVIDE TEST AND BALANCE REPORT TO ARCHITECT, ENGINEER, AND LANDLORD PRIOR TO THE FINAL BUILDING INSPECTION.

LANDLORD REQUIREMENTS:
LANDLORD APPROVED ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL CUTS THROUGH THE EXISTING ROOF, MODIFYING EXISTING OPENINGS, AND/OR ALTERING CURB FLASHING AT GENERAL CONTRACTOR'S EXPENSE. COORDINATE WITH GENERAL CONTRACTOR.

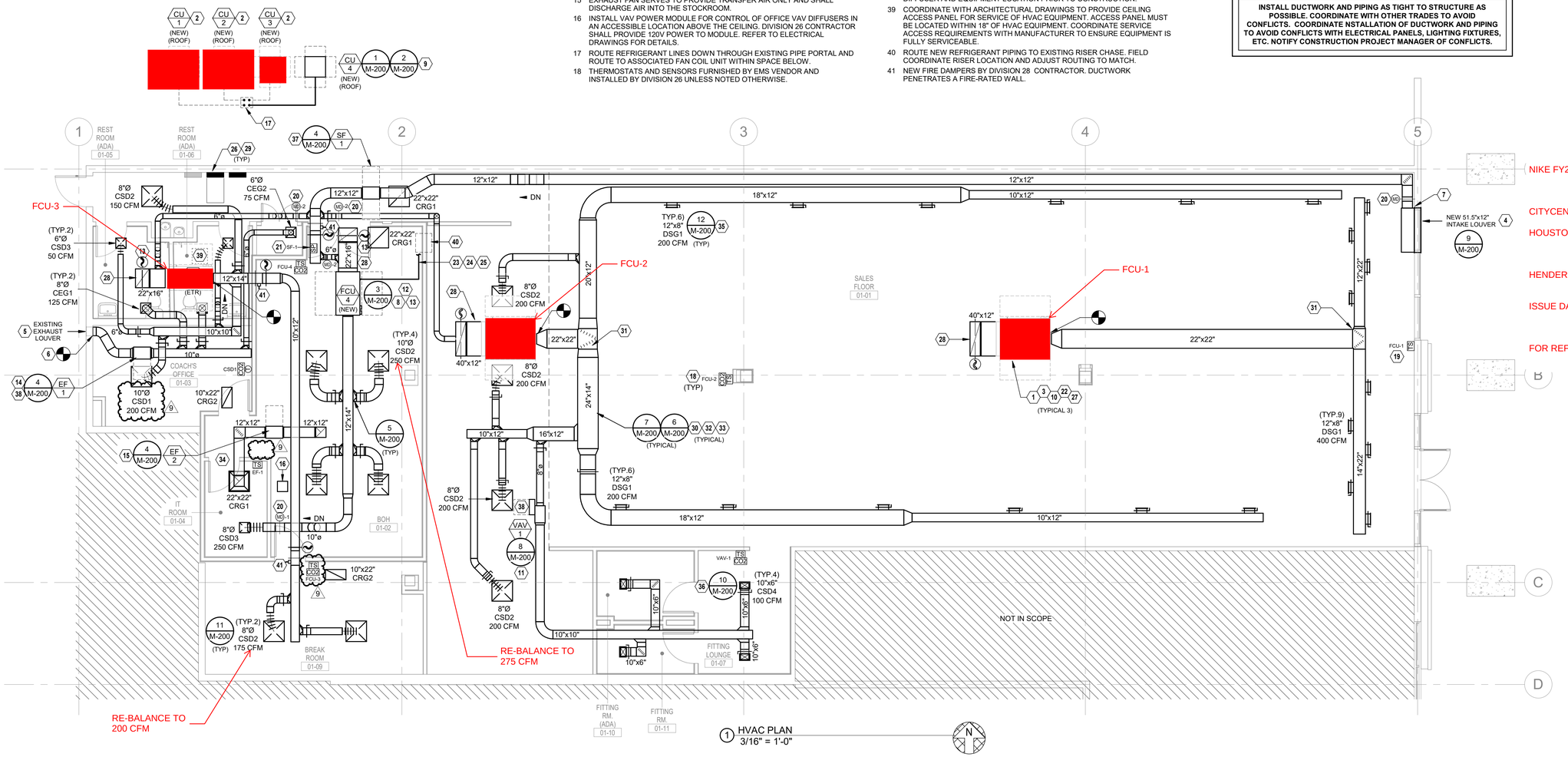
TEMPERATURE CONTROLS:
EMS VENDOR SHALL FURNISH SENSORS AND CONTROL COMPONENTS AS INDICATED ON PLANS AND AS NECESSARY TO ACCOMPLISH THE INTENT OF THE DRAWINGS. ALL CONTROLS SHALL BE TIED INTO THE EMS SYSTEM UNLESS NOTED OTHERWISE.

GENERAL CONTRACTOR SHALL INSTALL CARRIER FURNISHED TEMPORARY THERMOSTATS AND FEED THE WIRING DOWN INTO THE SPACE FOR START UP AND CONTROL OF RTU(S) UNTIL THE EMS SYSTEM IS OPERABLE. REFER TO M3.0 FOR CARRIER CONTACT INFORMATION.

EMS CONTROLS:
CONTRACTORS ARE RESPONSIBLE FOR COORDINATING ALL EQUIPMENT CONTROLS WITH EMS VENDOR PRIOR TO PURCHASE AND INSTALLATION. CONTRACTORS SHALL COORDINATE WITH EMS VENDOR TO PROVIDE ALL NECESSARY EQUIPMENT AND ACCESSORIES FOR A FULLY FUNCTIONING SYSTEM.

PROVIDE RFID DUCTWORK MESH OVER TRANSFER GRILLS BELOW 15'-0" AFF BETWEEN THE STOCKROOM AND THE SALES FLOOR, IF APPLICABLE. COORDINATE REQUIREMENTS WITH CONSTRUCTION PROJECT MANAGER.

INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE NSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. NOTIFY CONSTRUCTION PROJECT MANAGER OF CONFLICTS.



1 HVAC PLAN
3/16" = 1'-0"

NO.	DESCRIPTION	DATE
1	ISSUE FOR COORDINATION	12/02/20
2	ISSUE FOR COORDINATION	10/27/20
3	ISSUE FOR COORDINATION	11/12/20
4	ISSUE FOR PERMIT/BIDS	12/02/20
6	BULLETIN #1	04/12/21
7	BULLETIN #2	06/18/21
9	BULLETIN #3 / ISSUE FOR CONSTRUCTION	08/16/2021

NIKE FY25 HVAC REPLACEMENT

CITYCENTRE

HOUSTON, TX

HENDERSON ENGINEERS

ISSUE DATE: 11/06/2024

FOR REFERENCE ONLY

WWW.HENDERSONENGINEERS.COM
2050003194
TX. CORPORATE NO: F-001236
EXPIRES 9/30/2021

NIKE LIVE
822 TOWN AND COUNTRY BLVD.,
SUITE 106 HOUSTON, TX 77024

MECHANICAL HVAC PLAN

DATE	Issue Date
PROJ #	20065
SCALE	3/16" = 1'-0"

M-100

BRADLEY E. CHAMBON