



FLOOR PLAN - MECHANICAL
SCALE: 1/8"=1'-0"

LEGEND

- SUPPLY AIR
- RETURN AIR
- MANUAL DAMPER
- GAS WITH VALVE (REFER TO P1.1)
- MOTOR
- THERMOSTAT (MOUNT 5'-0" UP, UNLESS OTHERWISE NOTED) SEE CONTROL DIAGRAM, DRAWING M2.2.
- SENSOR FOR THERMOSTAT; SEE CONTROL DIAGRAM, DWG.M2.2. (MOUNT 6'-0" UP ON REAR OF COLUMN)
- GAS METER - SEE SHEET P1.1

AHU NOT USED
AC AIR CURTAIN
CFM CUBIC FEET PER MINUTE
CU CONDENSING UNIT
EF EXHAUST FAN
EH NOT USED
EWH NOT USED
FD NOT USED
SAD SUPPLY AIR DIFFUSER
SAG SUPPLY AIR GRILLE
SF SUPPLY FAN
RAG RETURN AIR GRILLE
EAG EXHAUST AIR GRILLE
RTU ROOFTOP UNIT
UH NOT USED

DESIGN CRITERIA
BASED ON ASHRAE H.O.F. 2001
MCALLEN, TEXAS

COOLING 98 DEGREES F. DRY BULB
76 DEGREES F. WET BULB

HEATING 40 DEGREES F. DRY BULB

DISCLAIMER:
NEITHER THE ARCHITECT NOR HIS CONSULTANT ACCEPT ANY LIABILITY FOR THE ACCURACY OF DESIGN AND/OR INSTALLATION OF REFRIGERATION EQUIPMENT. THE REFRIGERATION EQUIPMENT IS MANUFACTURED FOR THE OWNER/LANDLORD BY THE PARTY SO DESIGNATED ON THE DRAWINGS, AND THE MANUFACTURER, HIS CONTRACTOR AND INSTALLER SHALL BE FULLY RESPONSIBLE FOR THE PROPER INSTALLATION, START-UP, AND OPERATION OF THE REFRIGERATION EQUIPMENT, AS WELL AS ANY MODIFICATIONS AND/OR ADDITIONS TO THE EQUIPMENT IN ORDER TO COMPLY WITH ALL CODES AND ORDINANCES. THE ARCHITECT AND HIS CONSULTANTS SHALL NOT BE HELD LIABLE FOR THE FAILURE OF THE EQUIPMENT TO PERFORM AS INTENDED, NOR FOR THE FAILURE OF THE REFRIGERATION INSTALLER/CONTRACTOR TO PERFORM THIS INSTALLATION IN A SAFE AND PROFESSIONAL MANNER.

REFRIGERANT EQUIPMENT DATA

UNIT DESIG.	UNIT CAPACITY (IN CU. FT.)	COMPRESSOR QUANTITY & UNIT SERVED	COMPRESSOR LOCATION	REFRIGERANT TYPE	lbs. OF REFRIGERANT	ACCESSORIES TO BE PROVIDED
COOLER	1782 Cu.Ft.	(2) @ 4 Hp	ROOF TOP	R-22	29	N/A
FREEZER	1080 Cu.Ft.	(2) @ 5 Hp	ROOF TOP	R-404	29	VAPOR DETECTION, ALARM; PER UMC 2000

ACCESSORIES NOTE:
THE COOLER / FREEZER INSTALLER, OR THE GENERAL CONTRACTOR, WILL BE RESPONSIBLE TO PROVIDE ALL ACCESSORIES REQUIRED TO COMPLY WITH ALL NATIONAL, STATE, AND LOCAL CODES AND ORDINANCES. ACCESSORIES REQUIRED DUE TO FREEZER REFRIGERANT EXCEEDING THE MAXIMUM ALLOWABLE LBS./1,000 SQ. FT.

DESIGN OF REFRIGERATION SYSTEM NOT IN CONTRACT:
FOR INFORMATION & COORDINATION ONLY

- NOTES**
- ALL WORK SHOWN SHALL COMPLY WITH ALL NATIONAL, STATE AND LOCAL CODES, ORDINANCES, ETC.
 - SEE ALL OTHER DRAWINGS AND WALGREENS SPECIFICATIONS FOR ADDITIONAL WORK OR CLARIFICATION OF NECESSARY WORK.
 - ALL FRESH AIR INTAKES ON ROOF SHALL BE LOCATED A MINIMUM OF 15'-0" AWAY FROM ANY EXHAUST DUCT, BLOWER DISCHARGE, PLUMBING VENT, ETC.
 - HVAC ROOF-TOP UNIT TO INCLUDE FLEXIBLE CONNECTIONS. OUTSIDE AIR INTAKE TO BE SIZED FOR A MINIMUM OF 100% OF OUTSIDE AIR FOR ECONOMIZER SYSTEMS.
 - ALL DUCTWORK TO BE GALVANIZED SHEET METAL. (LINED DUCTWORK WILL NOT BE ACCEPTED)
 - EACH HVAC UNIT TO HAVE ITS OWN CONTROLS.
 - DO NOT INSTALL EQUIPMENT, DUCTWORK, PIPE, CONDUIT, ETC. AT ROOF HATCH LADDER AREA.
 - PROVIDE AIR INTAKE & EXHAUST THRU ROOF FOR GAS FIRED WATER HEATER (IF APPLICABLE), SEE SHEET P1.1, DETAILS 2/P2.1 6A/P2.1.
 - HVAC UNITS MUST BE INSTALLED LEVEL ON ROOF.
 - THERMOSTAT SENSOR WIRING TO BE RUN INSIDE PIPE COLUMNS.
 - DO NOT INSTALL SUPPLY AIR DIFFUSERS IN CEILING PANEL ADJACENT TO ROW OF LIGHT FIXTURES. COORDINATE DIFFUSERS WITH REFLECTED CEILING PLAN ON ARCH. DRAWING.
 - FLEXIBLE DUCT LENGTH NOT TO EXCEED A MAXIMUM OF 7'-0" USE ONLY ON FINAL SUPPLY AIR RUN OFF FROM BRANCH DUCT TO SUPPLY AIR DIFFUSER, AND 3'-0" FROM THE RETURN AIR GRILLE TO THE METAL DUCTWORK. FOR BOTH CASES 90 DEG. TURNS ARE NOT ALLOWED - OFFSET ANGLES SHALL BE KEPT TO A MINIMUM. SEE DETAILS 6/M2.1 & 8/M2.1.
 - SUPPLY AND/OR RETURN AIR CEILING PLENUMS WILL NOT BE ACCEPTED.
 - PROVIDE THERMOSTAT AND SENSOR TAG TO THE UNIT SERVED.
 - NOT USED
 - MECHANICAL SYSTEMS PIPING AND DUCT WORK TO BE HELD TO 14' A.F.F. (MINIMUM) COORDINATE WITH STOCK ROOM SHELVING.
 - SEE ARCHITECTURAL DRAWINGS FOR HVAC ROOF CURB, ROOF-TOP COMPRESSOR CURB AND SUPPORT DETAILS.
 - ALL NON-AIR CONDITIONING COMPRESSORS LISTED WITH REFRIGERANT PIPING SHALL BE FURNISHED BY WALGREENS.
 - PAINT THE INTERIOR SURFACE OF DUCTS WHERE VISIBLE THROUGH GRILLES, DIFFUSERS, ETC., WITH FLAT, "TINT" (DIRECT TO METAL), NON-SPECULAR BLACK PAINT.
 - INSTALL FIRE DAMPER WITH ACCESS DOOR PER LOCAL CODE.

- MECHANICAL KEYED NOTES**
- HVAC ROOF-TOP UNIT. SEE GENERAL NOTES (ABOVE) AND SCHEDULE ON DRAWING M2.2 FOR ADDITIONAL INFORMATION.
 - S.A.D., CFM AND SIZE AS NOTED. S.A.D. SHALL HAVE A TOTAL STATIC PRESSURE DROP OF 0.12" OR LESS. REFER TO GRILLE SCHEDULE M2.2. MARK A OR C. SEE DETAIL 1/M2.1.
 - NOT USED
 - NOT USED
 - S.A.G., CFM AND SIZE AS NOTED. S.A.G. SHALL HAVE A TOTAL STATIC PRESSURE DROP OF 0.12" OR LESS. REFER TO GRILLE SCHEDULE M2.2. MARK B. SEE DETAIL 2/M2.1.
 - R.A.G., CFM AND SIZE AS NOTED. R.A.G. SHALL HAVE A TOTAL STATIC PRESSURE DROP OF 0.12" OR LESS. REFER TO GRILLE SCHEDULE M2.2. MARK D OR E. SEE DETAIL 3/M2.1.
 - NOT USED
 - NOT USED
 - RETURN GRILLES ARE SIZED FOR 100% RETURN AIR QUANTITY.
 - ROOF-TOP CONDENSING UNIT FOR WALK-IN/COOLER/FREEZER.
 - PIPE PORTAL FOR WALK-IN/COOLER/FREEZER CONDENSING UNIT REFRIGERANT AND ELECTRICAL LINES. SEE DETAIL 6/M2.1.
 - ADJUST FRONT HORIZONTAL BARS TO AN ANGLE OF 45° SO THAT THE AIR FLOWS AWAY FROM THE WINDOW. THIS IS TO HELP PREVENT CONDENSATION ON THE GLASS IN HOT, HUMID CLIMATE CONDITIONS.
 - NOT USED.
 - NOT USED.
 - INSTALL S.A.G. IN THE CENTER OF CEILING TILE CLOSEST TO WINDOW CENTER.
 - EVAPORATOR UNIT, (FAN COIL) PROVIDE DX PIPING CONNECTION WITH ROOFTOP CONDENSING UNIT.
 - INSTALL RETURN GRILLE @ 8' A.F.F. INSTALL RETURN DUCT RISER IN WALL CAVITY AND COORDINATE WITH ARCHITECTURAL DRAWINGS.
 - OVERHEAD DOOR AIR CURTAIN MOUNTED FROM BAR-JOIST, POSITION TO CLEAR THE DOOR AND INSTALL PER MANUFACTURER'S DIRECTION. PROVIDE ELECTRIC HEAT, BASED ON WALGREENS CRITERIA. SEE ARCHITECTURAL SHEETS FOR DETAILS
 - NOT USED
 - DIRECT SUPPLY AIR AWAY FROM WEIGHT SCALE
 - MOUNT REGISTERS ON SPIRAL DUCTWORK. REGISTERS SHALL HAVE DAMPER AND SHALL BE INSTALLED SO THAT THE AIR SUPPLY IS DIRECTED DOWN AT AN ANGLE, SHOWN ON DETAIL 12/M2.1.
 - THERMOSTATIC REMOTE SENSOR MOUNTED 6' AFF. PROVIDE STAINLESS STEEL COVER ROUTE WIRING WITH IN THE COLUMN OR WALL.
 - INSTALL SMOKE DETECTOR IN AIR STREAM. DETECTOR FURNISHED BY ELECTRICAL CONTRACTOR.
 - NOT USED
 - ROUTE CONDENSATE OVER ROOF TO DOWN SPOUT. MAINTAIN 1/8" PER FOOT SLOPE. REFER TO ROOF TOP UNIT CONDENSATE DETAIL, SHEET M2.1.
 - ALL REQUIRED DUCT COORDINATION OFFSETS SHALL BE CONSTRUCTED OF ELBOWS WITH TURNING VANES AND WITH ELBOWS OF NO GREATER THAN 45° OFFSET.
 - PROVIDE 6" SPACE BETWEEN THERMOSTATS FOR SERVICE.
 - E.A.G., CFM AND SIZE AS NOTED REFER TO GRILLE SCHEDULE M2.2.

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ARCHITECTS

CERTIFICATION AND SEAL
I HEREBY CERTIFY THAT THIS PLAN AND SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT OR ENGINEER UNDER THE LAWS OF THE STATE OF TEXAS AS REQUIRED BY MY HAND AND SEAL.
6/9/04

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DRAWINGS/SPECIFICATIONS BY:
 WALGREENS' CONSULTANT
 LANDLORD'S CONSULTANT

ALL CONSTRUCTION WORK, UNLESS NOTED OTHERWISE, BY:
 WALGREENS' CONTRACTOR
 LANDLORD'S CONTRACTOR (TURNKEY CONSTRUCTION)

STORE BUILDING

NEW..... NEW.....
REMODELING... EXISTING.....
RELOCATION... NEW SHELL ONLY
OTHER.....

PROJECT NAME
Walgreens
NEC
McCOLL ROAD @ NOLANA AVENUE
MCALLEN, TEXAS
STORE #09075

NO.	DATE	REVISION / SUBMITTAL
	03/31/04	ISSUE FOR PRICING
	06/08/04	WALGREENS COMMENTS

FACILITIES

JUN 11 2004
PLANNING & DESIGN

DRAWING TITLE
MECHANICAL FLOOR PLAN

KAI JOB NO. 03030
ATI JOB NO. 04039
PRICING 03-31-04
PERMIT
CONSTR. JUN 09 2004

DRAWING NO.
M1.1

