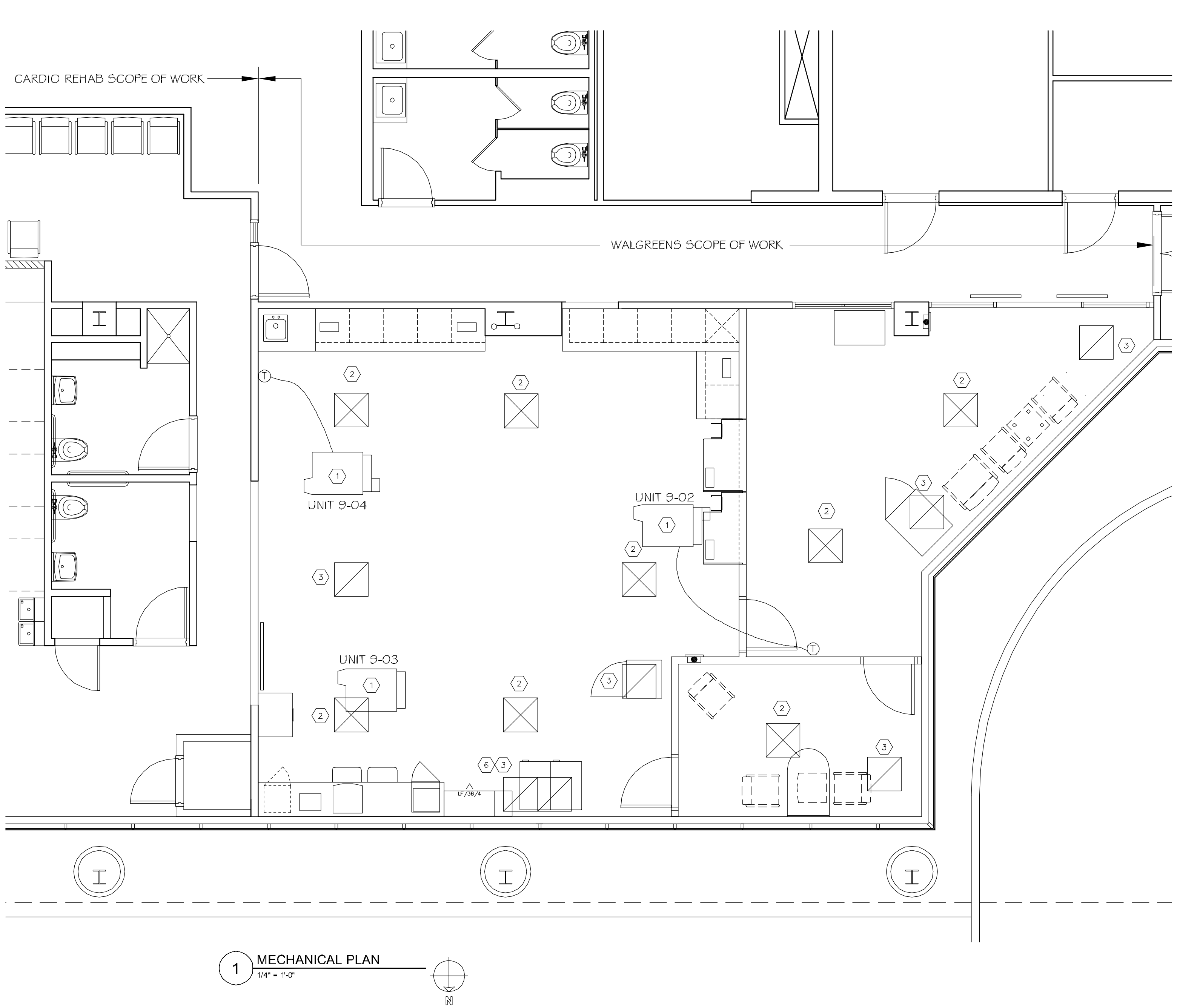


1 MECHANICAL PLAN
1/4" = 1'-0"

HVAC NOTES

1. CONCEALED DUCTWORK TO BE UL-181, CLASS 1, FIBERGLASS DUCTBOARD. DUCTS SHALL BE SIZED TO LIMIT MAIN DUCTS TO 1000 CFM & SECONDARY DUCTS TO 800 CFM. TO BE INSTALLED PER SMACNA STANDARDS.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL PER SMACA STANDARDS. LINE WITH NEOPRENE COATED 1.0," 1.5 POUNDS PER CUBIC FOOT DUCT INSULATION.
3. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
4. IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
5. PROVIDE U.L. LISTED 125 'F' FIRESTAT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
6. PROVIDE U.L. RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES.
7. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
8. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
9. ALL THERMOSTATS TO BE CONNECTED TO CENTRAL SYSTEM, MATCH EXISTING.
10. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
11. ALL SUPPLY AIR DIFFUSERS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS. SUPPLY AIR DIFFUSERS TO BE 24x24 SQUARE FOUR-WAY DIRECTIONAL EXTRUDED ALUMINUM LOUVER FACED CEILING DIFFUSERS. MATCH UNITS INSTALLED UNDER SMH CARDIO REHAB.
12. FRESH AIR SHALL BE SUPPLIEDTO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
13. INSTALL FIRE DAMPER WHERE S.A. & R.A. DUCTS PENETRATE 1 HOUR RATED CEILINGS.
14. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMESAND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E8-14).
15. ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMATICALLY. CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
16. FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 10'-0".
17. REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
18. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
19. PROVIDE AND INSTALL SMOKE DETECTORS AS APPROVED BY LOCAL AHJ'S. PLACE NEAR R/A AND S/A OPENINGS OF AHU AND PROVIDE, WITH ACCESS PANEL, WIRING BY ELECTRICAL CONTRACTOR.
20. FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING. ALL THERMOSTATS MUST BE PROGRAMABLE. SEE SECTIONS 502.4.4 OR 503.2.4.3 OF THE 2006 INTERNATIONAL ENERGY CODE.

MECHANICAL KEYED NOTES

1. EXISTING FAN BOX, CLEAN ALL FAN BOXES AND INSTALL NEW FILTERS. GENERAL NOTES, SCHEDULE OF UNITS SERVING THE AREA.
2. REPLACE EXISTING FLEX DUCTS AND REGISTERS, INSTALL NEW REGISTERS IN LOCATIONS SHOWN ON PLANS. REPLACE DAMPERS WHERE REQUIRED. SEE DETAILS 1/M111 AND 2/M111.
3. SEE DETAILS 3/M111.
4. INSTALL FIRE DAMPER AND ACCESS DOOR PER LOCAL CODE.
5. ELECTRIC BASEBOARD OR WALL/CEILING HEATER WITH BUILT-IN T-STAT. SEE ELECTRICAL DRAWING E121 FOR MORE INFORMATION.
6. LOCATE RAG OVER COMMUNICATION CABINETS

MECHANICAL NOTES

GENERAL:

1.1 REFER TO ALL OTHER DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK OR CLARIFICATIONS.

1.2 REFER TO DETAIL 4 THIS SHEET FOR BRANCH DUCT RUN-OUTS.

AIR DISTRIBUTION:

2.1 DUCTWORK TO BE GALVANIZED ROUND SPIRAL SHEET METAL PER SMACNA OR MATCH EXISTING RECTANGULAR.

2.2 DUCTWORK SHALL BE INSULATED TO MATCH EXISTING. LINED DUCTWORK IS NOT PERMITTED.

2.3 FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 3'-0". USE ONLY ON FINAL SUPPLY AIR DIFFUSER, AND 3'-0" FROM THE RETURN AIR GRILLE TO THE METAL DUCTWORK. FOR BOTH CASES, 90° TURNS ARE NOT ALLOWED - OFFSET ANGLES SHALL BE KEPT TO A MINIMUM. SEE DETAIL 4.

2.4 PAINT THE INTERIOR SURFACE OF DUCTS (WHERE VISIBLE) THROUGH GRILLES, DIFFUSERS ETC. USE FLAT 'DTM' (DIRECT TO METAL), NON-SPECULAR BLACK PAINT.

2.5 DIFFUSERS AND GRILLES SHALL MATCH EXISTING STYLE WITH FACTORY FINISH TO MATCH CEILING GRID.

2.6 AIR BALANCE TO MAINTAIN THE INDICATED QUANTITIES WITHIN A TOLERANCE OF PLUS OR MINUS 10%.

2.7 PROVIDE A BALANCING DAMPER UPSTREAM OF EACH DIFFUSER IN ORDER TO ADJUST THE AIR FLOW TO ACHIEVE DESIRED ROOM TEMPERATURE. DAMPERS SHALL BE FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH SMACNA STANDARD AND PRACTICES.

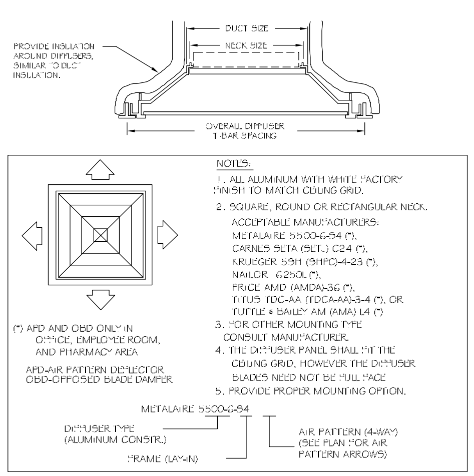
MISCELLANEOUS:

3.1 GAS SERVICE, METER, REGULATOR AND VALVES, PHYSICAL PROTECTION OF EQUIPMENT BY GENERAL CONTRACTOR.

3.2 ELECTRIC BASEBOARD OR WALL/CEILING HEATERS (EWH) ARE PROVIDED UNDER THE ELECTRICAL CONTRACT. THEY ARE HERE FOR INFORMATION ONLY.

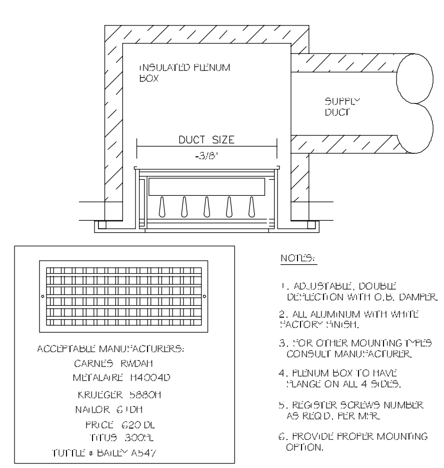
MECHANICAL LEGEND

☒	SUPPLY AIR
◺	RETURN OR EXHAUST AIR
	VOLUME DAMPER
Ⓣ	THERMOSTAT (MOUNT 5'-0" UP, UNLESS OTHERWISE NOTED)
XXXS	CFM SUPPLY AIR
XXXR	CFM RETURN AIR
RTU	ROOF TOP UNIT
CFM	CUBIC FEET PER MINUTE
FD	FIRE DAMPER WITH ACCESS DOOR
SAD	SUPPLY AIR DIFFUSER
SAG	SUPPLY AIR GRILLE
SAR	SUPPLY AIR REGISTER
RAG	RETURN AIR GRILLE
EAG	EXHAUST AIR GRILLE
EWH	ELECTRIC WALL HEATER
BBH	BASEBOARD HEATER
G	GAS



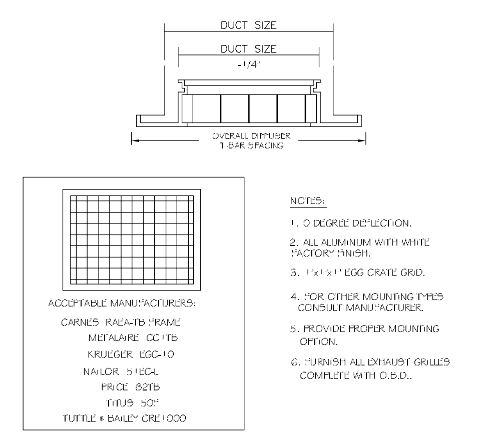
(NO SUBSTITUTION ACCEPTED FOR MANUFACTURERS LISTED ABOVE)

1 SUPPLY AIR DIFFUSER



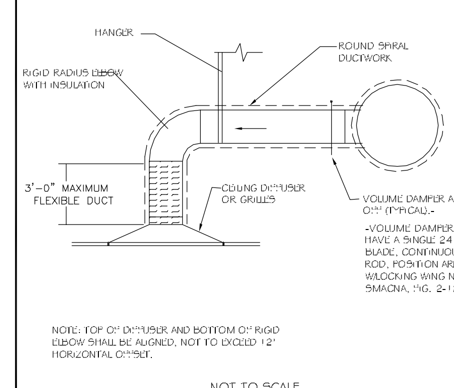
(NO SUBSTITUTION ACCEPTED FOR MANUFACTURERS LISTED ABOVE)

2 SUPPLY AIR GRILLE AND REGISTER



(NO SUBSTITUTION ACCEPTED FOR MANUFACTURERS LISTED ABOVE)

3 EXHAUST & RETURN AIR GRILLE



NOT TO SCALE

4 SUPPLY FLEXIBLE DUCTWORK

Walgreens
FACILITIES DEVELOPMENT
106 WILMOT ROAD
DEERFIELD, IL 60015-5105

11/12/2013

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 LOUISIANA AS SIGNIFIED BY MY HAND AND SEAL.

DAMMON ENGINEERING, INC.
Architects & Engineers
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CHIEF ARCHITECT: KEVIN KINCHEN
334 OLD SPANISH TRAIL
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NO.	DATE	BY	DESCRIPTION

REVISIONS

FLOOR PLAN - MECHANICAL

FILE NAME:
PROJECT ID: N98765
FACILITY NUMBER 15988
WALGREENS
HSRx
1001 GAUSE BLVD.
SLIDELL, LA

DRAWN BY: D. DAMMON
DATE: 11/12/2013
REVIEWED: D.HEINEN

M-111