

HVAC GENERAL NOTES		
1. DRAWING IS DIAGRAMMATIC AND IS NOT TO BE SCALED. REFER TO ARCHITECTURAL PLANS OR FIELD MEASUREMENTS FOR DIMENSIONS.	8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE AND FUNCTIONAL SYSTEM IN ACCORDANCE WITH THE INTENT OF THE PLANS, WHETHER OR NOT EVERY ELEMENT THEREOF IS SPECIFICALLY CALLED OUT.	17. ALL CAULKING ON BUILDING PENETRATIONS SHALL BE A ONE-COMPONENT NON-SAG URETHANE ELASTOMERIC SEALANT. ANY CONTRACTOR WHO USED SILICONE OR ANY OTHER CAULKING WILL BE REQUIRED TO REMOVE AND REPLACE WITH A SPECIFIED SEALANT (SPEC: 07 92 00).
2. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE CODE(S) NOTED ON THE CODE SUMMARY SHEET.	9. DUCT DIMENSIONS ON PLANS ARE TO BE FINISHED INSIDE DIMENSIONS.	18. THE HVAC SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH NFPA 101-7-2 AND NFPA 96A "STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS".
3. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.	10. DUCT MATERIALS SHALL BE AS FOLLOWS: ROUND SUPPLY AIR DUCT (SPEC 23 30 00) RECTANGULAR SUPPLY AND RETURN AIR DUCT WORK - (SPEC 23 30 00) INSTALL TURNING VANES IN ALL ELBOWS. DO NOT SUBSTITUTE RADUSED ELBOWS. RUNOUTS TO DIFFUSERS - (SPEC 23 30 00) (SEE DIFFUSER INSTALLATION DETAIL). EXHAUST DUCT - (SPEC 23 30 00) TRANSITIONS - SHALL CONFORM TO SMACNA STANDARDS.	19. ALL HVAC SYSTEM FLUES & VENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NFPA 54 (LATEST EDITION).
4. ALL ROOF AND WALL PENETRATIONS REQUIRED SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. PROVIDE ALL SLEEVES, FLASHING, CURBS, REINFORCING ANCHORS, SUPPORTING FRAMES, ETC., WHICH ARE REQUIRED UNLESS THEY ARE SPECIFICALLY CALLED OUT TO BE FURNISHED BY OTHERS.	11. INSULATE HVAC CONDENSATE DRAIN PIPING WITH 1/2" ARMAFLEX.	20. PROVIDE AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8.
5. A SUBMITTAL OF ALL MATERIALS AND EQUIPMENT PROPOSED TO BE USED ON THE JOB SHALL BE PREPARED AS SOON AS POSSIBLE AFTER AWARD OF THE CONTRACT. THE SUBMITTAL WILL BE REVIEWED BY THE OWNER FOR EQUAL QUALITY AND PERFORMANCE TO THE ITEMS SPECIFIED. ALL CONTROL DEVICES SHALL BE INCLUDED IN THE SUBMITTAL.	12. ALL WORK IS TO BE GUARANTEED FOR ONE YEAR UPON OCCUPANCY.	21. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM.
6. THE PROPER PERFORMANCE OF THE CONTROL SYSTEM IS THE RESPONSIBILITY OF THE CONTRACTOR.	13. NO EQUIPMENT OR FIXTURE SUBSTITUTIONS (THAT ARE NOT CURRENTLY LISTED) WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER.	22. ALL HVAC CONDENSATE LINES SHALL RUN AT A MINIMUM SLOPE OF 1/8-INCH PER FOOT.
7. THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS WORK WITH THE WORK OF OTHER SUBCONTRACTORS OF THE PROJECT. COORDINATION DOES NOT MEAN "I WAS HERE FIRST".	14. UPON COMPLETION BALANCE SYSTEMS TO AIR FLOWS SHOWN. REPORT THE BALANCING MEASUREMENTS ON THE "AS BUILT" DRAWINGS.	
	15. MOUNT CONDENSATE AND REFRIGERANT LINES AS HIGH AS POSSIBLE.	
	16. CONTROL WIRING BY HVAC CONTRACTOR. FINAL CONNECTIONS BY HVAC CONTRACTOR.	

HVAC SYSTEMS TESTING & BALANCING

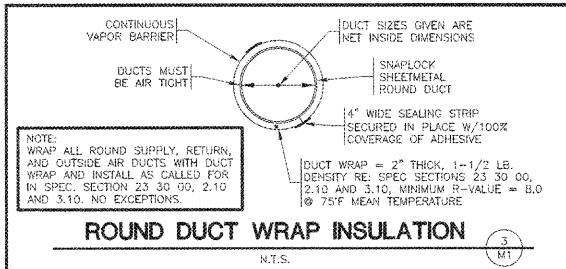
THE HVAC SYSTEM SHALL BE TESTED AND BALANCED (T&B) BY THE CONTRACTOR PER SPEC SECTION: 23 05 93 AND IN ACCORDANCE WITH THE PROCEDURES OF ASAC OR NEBB. CONTRACTOR SHALL SUBMIT WRITTEN T&B REPORTS TO THE OWNER. SINCE THIS O'REILLY STORE IS LESS THAN 50,000 SQ. FT. THEN SYSTEM COMMISSIONING IS NOT REQUIRED PER ASHRAE 90.1.

OUTSIDE AIR SETUP:

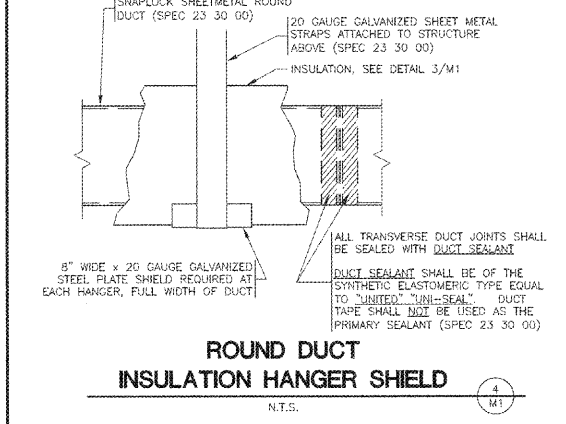
CONTRACTOR TO SET DAMPERS AS FOLLOWS:
ECONOMIZER MODE MAXIMUM CFM PER UNIT @ TOTAL FRL = 2.000
MINIMUM OUTSIDE AIR CFM PER ROOFTOP UNIT (TYPICAL) = 208 DURING OCCUPIED HOURS ONLY.

HVAC ROOF BRACING CONFLICTS

CONTRACTOR TO FIELD VERIFY ROOF'S HORIZONTAL ROD BRACING LOCATIONS. IF NECESSARY, SHIFT ROOFTOP UNITS AND DUCTS AS REQUIRED TO AVOID CONFLICT WITH BRACING.



ROUND DUCT WRAP INSULATION
N.T.S.



ROUND DUCT INSULATION HANGER SHIELD
N.T.S.

HVAC OUTDOOR AIR REQUIREMENTS

MECHANICAL CODE REFERENCE:
TABLE 403.3 FOR REQUIRED OUTDOOR VENTILATION AIR IN RETAIL - "SALES/STORAGE ROOM"

1. HARD PARTS ADDITION =	2764 SQUARE FEET
HARD PARTS ADDITION (STORAGE ROOM)	2764 x .12 (CFM/SQUARE FEET) = 331.68 CFM OF OUTSIDE AIR REQUIRED
331.68 x .8 (EFFECTIVENESS) =	414.60 CFM
TOTAL OUTSIDE AIR MINIMUM REQUIRED BY CODE:	414.60 CFM
OUTSIDE AIR SPECIFIED ON PLAN SHEET M1:	416 CFM

HVAC - KEYNOTES

- 1. 12"x12" DUCT W/ ELBOW FROM "R2" TO JUST ABOVE THE CEILING PLATFORM.
- 2. WALL CAP 500 CFM EXHAUST. ARCHITECTURAL ELEVATIONS SHOW DIMENSIONED LOCATION.

EXISTING GRIDPOINT ADM-1204

HVAC SCOPE OF WORK

ALL EXISTING HVAC SHALL REMAIN AS IS, UNLESS OTHERWISE NOTED ON PLANS.
HVAC CONTRACTOR SHALL INSTALL NEW ROOFTOP UNITS OVER NEW ADDITION SPACE.
INSTALL NEW EXHAUST FAN AND DIFFUSER IN NEW RESTROOMS.
INSTALL NEW EXISTENCE FAN.
CONTRACTOR SHALL REPLACE ALL EXISTING AIR FILTERS INSIDE ALL HVAC UNITS WITH CLEAN NEW FILTERS.
CONTRACTOR SHALL SUPPLY AN ADDITIONAL CLEAN SET OF NEW AIR FILTERS TO THE OWNER AT JOB COMPLETION.
CONTRACTOR SHALL SHOW THE STORE MANAGER THE LOCATION AND INSTRUCTIONS HOW TO CHANGE ALL AIR FILTERS.
CONTRACTOR SHALL SUPPLY AND/OR INSTALL THE ACCESSORIES AS NOTED ON THE EXISTING HVAC EQUIPMENT SCHEDULE SHEET M2 FOR ALL EXISTING HVAC EQUIPMENT. COORDINATE WITH O'REILLY REPRESENTATIVE.

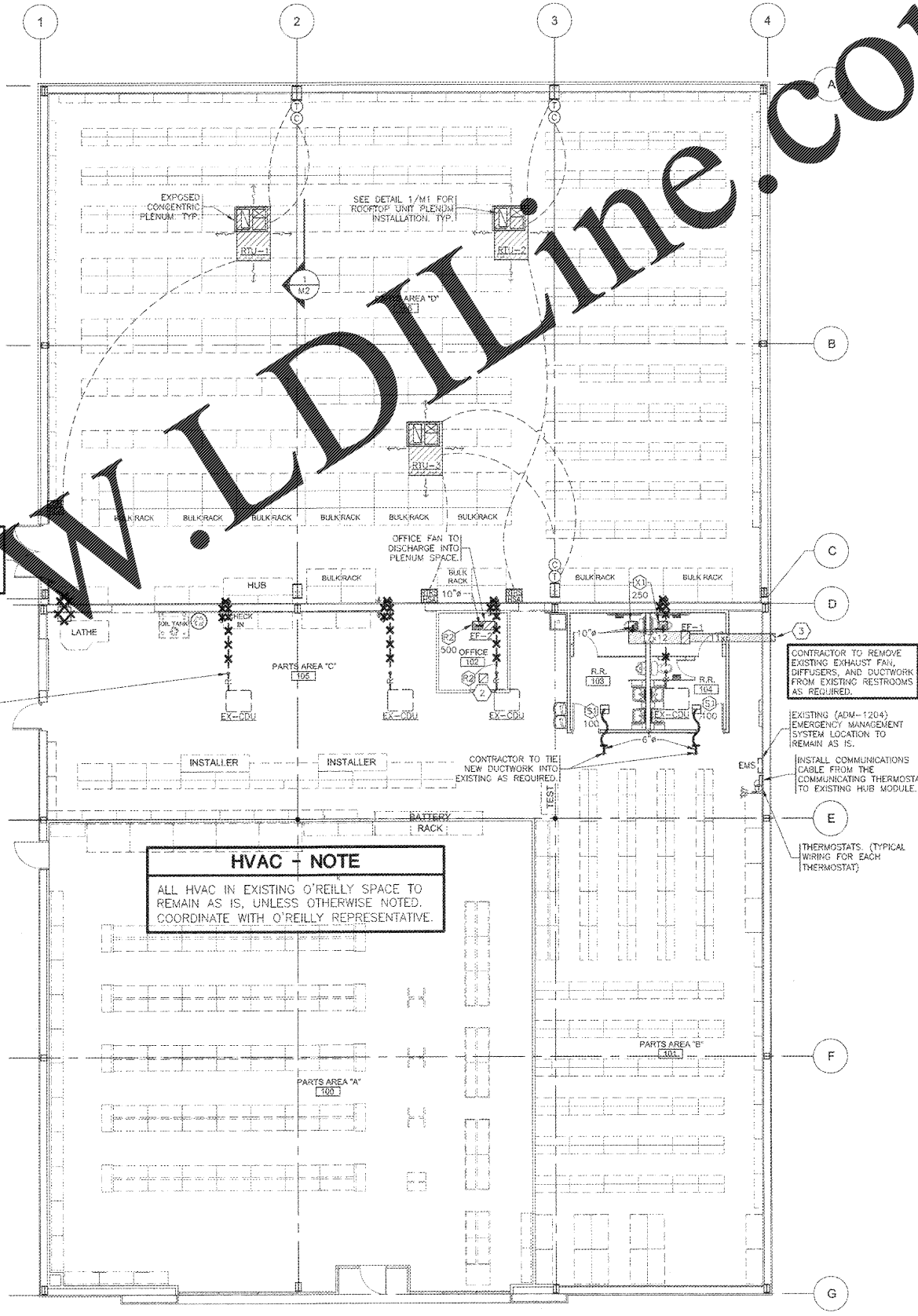
HVAC LEGEND

- EXHAUST REGISTER
- SUPPLY DIFFUSER (1 WAY)
- ROUND DUCT
- FLEXIBLE DUCT (MAX. LENGTH = 8'-0")
NOTE: LOCATION OF FLEX DUCT SHALL BE ONLY AS INDICATED ON PLAN VIEW DRAWING.
- COMMUNICATION CABLE
- THERMOSTAT (SEE EM SHEETS). SEE EM SHEETS FOR THERMOSTAT MOUNTING HEIGHTS AND TYPICAL WIRING. THERMOSTAT, FIELD SUPPLIED AND FIELD INSTALLED.
- CO2 SENSOR FOR DEMAND CONTROL VENTILATION (FACTORY SUPPLIED WITH ROOFTOP UNIT). FIELD INSTALLED BY WIRING BY CONTRACTOR). SEE EM SHEETS FOR SENSOR MOUNTING HEIGHTS.
- REMOTE TEST STATION EQUAL TO CARRIER #SD-TRM4 (CRSDTEST001400) FOR REMOTE TESTING/RESETTING OF DUCT SMOKE DETECTOR. MOUNT 5'-0" A.F.F. REFERENCE SHEET M3
- AUDIBLE/VISUAL SIGNAL DEVICE EQUAL TO CARRIER #6536-G5 (CRSDHNS001400) FOR SIGNALING ALARM OF DUCT SMOKE DETECTOR. MOUNT 7'-0" A.F.F. REFERENCE SHEET M3

SEISMIC RESTRAINTS (ONLY REQUIRED FOR SEISMIC DESIGN CATEGORIES C,D,E,F)

CONTRACTOR TO REFER TO ARCHITECTURAL SHEET G1.1 FOR SEISMIC DESIGN CATEGORY.
IF REQUIRED SEE SEISMIC SCHEDULE SHEET ME1.

NOTE: REMOVE EXISTING LATHE FAN. PATCH AND REPAIR WALL TO MATCH EXISTING WALL CONDITIONS.
CONTRACTOR TO RELOCATE EXISTING REFRIGERANT LINES. RUN REFRIGERANT LINE UNDER ROOF CONTINUOUS TO CONDENSING UNIT LOCATION. REMOVE EXISTING REFRIGERANT LINE AS SHOWN. SEE DETAIL 4/M2, TYPICAL OF 4.



HVAC - NOTE
ALL HVAC IN EXISTING O'REILLY SPACE TO REMAIN AS IS, UNLESS OTHERWISE NOTED. COORDINATE WITH O'REILLY REPRESENTATIVE.

CONTRACTOR TO REMOVE EXISTING EXHAUST FAN, DIFFUSERS, AND DUCTWORK FROM EXISTING RESTROOMS AS REQUIRED.

EXISTING (ADM-1204) EMERGENCY MANAGEMENT SYSTEM LOCATION TO REMAIN AS IS.

INSTALL COMMUNICATIONS CABLE FROM THE COMMUNICATING THERMOSTAT TO EXISTING HUB MODULE.

THERMOSTATS (TYPICAL WIRING FOR EACH THERMOSTAT)



O'Reilly AUTO PARTS
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PROJECT: BUILDING ADDITION
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HVAC PLAN

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DRAWN BY: CEV
CHECKED BY: NEG
DATE: 10/12/18
REVISION:

PROJECT NUMBER:
FOL-1133

SHEET NUMBER:
M1

HVAC PLAN

SCALE: 1/8" = 1'-0"

