



Engineering & Design Consultants  
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Job No. 20163



SECTION 15992 - LOW PRESSURE DUCTWORK

- A. GENERAL
1. DUCT SYSTEM SHALL BE FABRICATED WITH SHEET METAL THICKNESSES AND REINFORCED IN ACCORDANCE WITH SMACNA...
2. DUCTWORK HANGERS SHALL BE SUPPORTED BY FASTENERS ATTACHED TO STRUCTURAL STEEL...
3. INSTALL IN THE DUCTWORK DEVICES FURNISHED BY THE TEMPERATURE CONTROLS SUB-CONTRACTOR...
4. WATER AND OTHER PIPES SHALL NOT BE ALLOWED TO PASS THROUGH AIR RISERS OR DUCTS...
B. GALVANIZED STEEL DUCTWORK
1. GALVANIZED STEEL DUCTWORK SHALL CONFORM TO ASTM A653 (G60)...
C. DUCTWORK FITTINGS
1. FOR RECTANGULAR DUCTWORK, VANES SHALL BE PROVIDED IN ELBOWS WITH 90 DEGREE THROATS...
D. HANGERS AND SUPPORTS
1. PROVIDE CONCRETE INSERTS OR STRUCTURAL STEEL FASTENERS APPROPRIATE FOR BUILDING MATERIALS...
E. SEALANT MATERIAL
1. SEALANTS SHALL BE SOLVENT OR WATER BASED TYPE U.L. CLASSIFIED MEETING NFPA 90A CLASS 1...
F. FLEXIBLE CONNECTORS
1. INSTALL FLEXIBLE CONNECTORS AT ALL SUPPLY AND EXHAUST FANS AND OTHER AIR HANDLING UNITS...
G. FLEXIBLE DUCTWORK
1. FLEXIBLE DUCTS SHALL BE USED FOR STRAIGHT RUNS OF DUCT OR OFFSETS UP TO 45 DEGREES...
H. VOLUME DAMPERS
1. SINGLE BLADE DAMPERS SHALL BE CONSTRUCTED OF 22 GAUGE GALVANIZED STEEL...
I. FIRE DAMPERS
1. FIRE DAMPERS SHALL BE UNDERWRITERS APPROVED AND LABELED (UL555)...
J. DAMPER HARDWARE
1. ALL HARDWARE SHALL BE SMACNA ACCEPTED...
K. DUCT ACCESS DOORS
1. ACCESS DOORS SHALL BE HINGED, CONSTRUCTED OF THE SAME MATERIAL AS THE DUCTWORK...

SECTION 15906 - TEMPERATURE CONTROLS

- A. GENERAL
1. FURNISH AND INSTALL AN ELECTRIC SYSTEM OF AUTOMATIC TEMPERATURE CONTROL AS SPECIFIED HEREIN...
2. EXCESS COSTS INCURRED BY USE OF OTHER THAN BASE BID CONTROL SYSTEM...
3. ALL CONTROL DEVICES AND EQUIPMENT SHALL INCLUDE THE FOLLOWING: MANUFACTURER'S DATA SHEETS...
B. MOTOR OPERATORS
1. MOTOR OPERATOR SHALL BE SPRING RETURN TYPE...
C. DAMPERS
1. ALL CONTROL DAMPERS SHALL BE STANDARD PRODUCTS OF DAMPER OR TEMPERATURE CONTROL MANUFACTURERS...
D. THERMOSTATS
1. PROVIDE HVAC THERMOSTAT WITH THE FOLLOWING FEATURES: SEVEN DAY PROGRAMMING, TWO OCCUPIED/TWO UNOCCUPIED PERIODS PER DAY...
E. TEMPERATURE CONTROL WIRING
1. ALL CONTROL WIRING AND CONDUIT REQUIRED TO COMPLETE THE TEMPERATURE CONTROL SYSTEM SHALL BE PROVIDED BY THE TEMPERATURE CONTROL SUB-CONTRACTOR...
F. INSTALLATION
1. THE ENTIRE CONTROL SYSTEM, INCLUDING LOW VOLTAGE WIRING...
G. OPERATION TEST AND OWNER'S INSTRUCTION
1. AT COMPLETION, TCSC SHALL OPERATE THE SYSTEM FOR A PERIOD OF AT LEAST THREE DAYS...
H. SEQUENCE OF OPERATIONS
1. HVAC UNITS
a. NORMAL OPERATION
1. UNITS SHALL BE CONTROLLED BY SPACE THERMOSTAT...
2. EXHAUST FANS
1. INTERLOCK EXHAUST FANS AS NOTED ON SCHEDULE.
3. UNIT HEATERS
1. HEATERS SHALL ENERGIZE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE...

SECTION 15936 - REGISTERS, GRILLES AND DIFFUSERS

- A. PRODUCT PERFORMANCE DATA SHALL BE TAKEN FROM TESTS CONDUCTED IN ACCORDANCE WITH ANSI/ASHRAE 70...
B. THE NOMINAL OR DUCT CONNECTION SIZE OF GRILLES (NOT OVERALL DIMENSIONS) IS GIVEN ON PLANS...
C. REFER TO ARCHITECTURAL DRAWINGS FOR THE VARIOUS CEILING TYPES...
D. SUPPLIER SHALL CHECK ALL AIR DISTRIBUTION AND RETURN AIR DEVICES FOR PROPER PERFORMANCE...
E. RETURN EXHAUST GRILLES TYPE A - TITUS MODEL 350 RL...
F. CEILING DIFFUSER TYPE A - TITUS MODEL TDC STEEL LOUVERED FACE...
G. RETURN EXHAUST GRILLES TYPE B - TITUS MODEL 50F ALUMINUM EGG CRATE GRILL...
H. RETURN EXHAUST GRILLES TYPE C - TITUS MODEL 33R STEEL HEAVY DUTY BAR GRILLE...
I. RETURN EXHAUST GRILLES TYPE D - TITUS MODEL 33R STEEL HEAVY DUTY BAR GRILLE...

SECTION 15990 - TESTING, ADJUSTING AND BALANCING

- A. THE TEST AND BALANCE CONTRACTOR SHALL BE AN INDEPENDENT CONTRACTOR THAT REGULARLY PERFORMS AIR AND WATER SYSTEMS TESTING AND BALANCING...
B. PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM...
C. CUT INSULATION, DUCTS, PIPES, AND EQUIPMENT CABINETS...
D. MARK EQUIPMENT TAGS WITH PAINT OR OTHER SUITABLE PERMANENT IDENTIFICATION MATERIAL...
E. SET FAN SYSTEM AIRFLOW AND WATER FLOW RATES WITHIN THE FOLLOWING TOLERANCES:
1. OUTLETS AND INLETS: 0 TO MINUS 10 PERCENT.
2. HEATING-WATER FLOW RATE: 0 TO PLUS 10 PERCENT.
3. COOLING-WATER FLOW RATE: 0 TO MINUS 5 PERCENT.
F. THE MECHANICAL CONTRACTOR'S RESPONSIBILITIES: FURNISH THE TEST AND BALANCE CONTRACTOR ONE COMPLETE SET OF ACCEPTED EQUIPMENT DATA...
G. OPERATION TEST AND OWNER'S INSTRUCTION
1. AT COMPLETION, TCSC SHALL OPERATE THE SYSTEM FOR A PERIOD OF AT LEAST THREE DAYS...
H. SEQUENCE OF OPERATIONS
1. HVAC UNITS
a. NORMAL OPERATION
1. UNITS SHALL BE CONTROLLED BY SPACE THERMOSTAT...
2. EXHAUST FANS
1. INTERLOCK EXHAUST FANS AS NOTED ON SCHEDULE.
3. UNIT HEATERS
1. HEATERS SHALL ENERGIZE AS REQUIRED TO MAINTAIN SPACE TEMPERATURE...

Order Pinned

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Express Oil Change & Tire Engineers
Right Hand Oil Change Building (Hurricane)
2265 O'Neal Lane
Baton Rouge, LA 70816

Table with 3 columns: No., Description, Date. Row 1: FINAL

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Table with 2 columns: Field, Value. Fields: Project number (20025), Date (08/27/2020), Drawn by (CA), Checked by (JB), Scale (12" = 1'-0")