

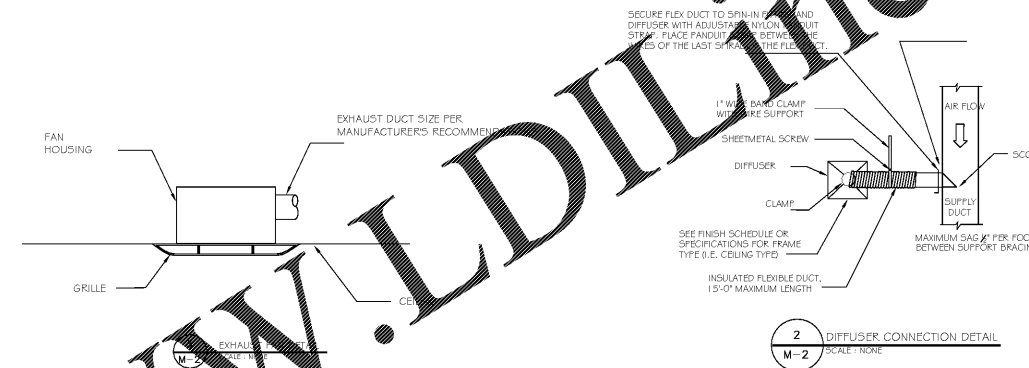
**MECHANICAL NOTES AND SPECIFICATIONS**

- THE CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM TO INCLUDE ALL LABOR MATERIALS, TOOLS, AND EQUIPMENT FOR A COMPLETE AND FUNCTIONAL SYSTEM INCLUDING ALL NECESSARY APPURTENANCES CUSTOMARILY INCLUDED IF NOT NECESSARILY CALLED OUT.
- DEVIATION FROM MATERIALS, METHODS, AND PROCEDURES SET FORTH HEREIN MUST BE APPROVED IN WRITING. APPROVAL WILL NOT BE GIVEN UNLESS THE PROPOSED SYSTEM IS EQUAL IN PERFORMANCE, DURABILITY, LONGEVITY, AND RELIABILITY TO THAT SPECIFIED.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL LOCAL, STATE, AND FEDERAL CODES, LAWS, AND ORDINANCES.
- THE CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND THE CONDITIONS, AND SHALL VERIFY DIMENSIONS AND CLEARANCES AND BE ASSURED THAT THE EQUIPMENT PURCHASED WILL FIT INTO THE AVAILABLE SPACE.
- SUBMISSION OF A BID OR PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED HIMSELF WITH THE PLANS, SPECIFICATIONS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO BIDS FOR MATERIALS AND/OR LABOR DUE TO DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED UNLESS DIFFICULTIES COULD NOT HAVE BEEN FORESEEN THOUGH PROPER EXAMINATION HAD BEEN MADE.
- THE CONTRACTOR SHALL REVIEW STRUCTURAL DRAWINGS BEFORE FABRICATING OR INSTALLING DUCTWORK OR EQUIPMENT TO AVOID ANY CONFLICTS.
- ALL HARD DUCTWORK SHALL BE FABRICATED OF STEEL OF THICKNESS AND GAUGES TO CONFORM TO SMACNA DUCT CONSTRUCTION STANDARDS (RECTANGULAR OR EQUIVALENT ROUND).
- ALL DUCTS SHALL BE AIRTIGHT, FREE OF LEAKS, AND SHALL BE INSPECTED FOR LEAKS PRIOR TO INSTALLATION OF FINISHED CEILING SYSTEM.
- DUCTWORK, DAMPERS, LOUVERS, DIFFUSERS, AND OTHER DISTRIBUTION EQUIPMENT AND MATERIALS SHALL CONFORM TO THE FOLLOWING:
 

A. ASHRAE/ANSI	E. AMCA STANDARD HANDBOX 99
B. SBCCI/ASME	F. AIR DIFFUSION COUNCIL TEST CODE 1062R3
C. SMACNA	G. ANY LOCAL CODES NOT COVERED ABOVE
D. NFPA	
- ALL DUCT SIZES ARE CLEAR NET INSIDE DIMENSIONS.
- ALL DUCTWORK SHALL BE CONTINUOUS WELDED, LEAK-FREE, STEEL CONSTRUCTION CONFORMING TO SMACNA CODES. ACCESS PANELS INSTALLED NEAR ELBOWS TO FACILITATE CLEANING.
- ALL MAKE-UP AIR DUCTWORK SHALL BE INSULATED WITH 1-1/2", 3/4# DENSITY FOIL-BACKED EXTERNAL INSULATION.
- MANUAL DAMPERS SHALL BE INCLUDED IN OUTSIDE AIR INTAKE DUCTS TO REGULATE OUTSIDE AIR TO EQUIPMENT.
- ALL INSULATING MATERIAL SHALL HAVE A COMPOSITE FLAME SPREAD INDEX OF 25 AND SMOKE DEVELOPED INDEX OF 50 (ASTM E-84, NFPA 255 # UL 723).
- APPLICABLE FIRE DAMPERS SHALL BE RUSKIN MODEL D-HD2 STYLE "B" OR APPROVED EQUAL WITH A 1-1/2 HOUR RATING.
- BALANCE ALL AIR SYSTEMS TO PRODUCE THE VOLUMES AND QUANTITIES SHOWN ON THE DRAWINGS OR SPECIFIED.
- THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL CHARACTERISTICS WITH ELECTRICAL DRAWINGS BEFORE PURCHASING EQUIPMENT.

OUTDOOR AIR REQUIREMENTS - MAIN LEVEL						
SPACE	NET AREA, S.F. (G)	R <sub>p</sub> (C/F)	R <sub>z</sub> (D/F)	SPACE DENSITY*	SPACE OCCUPANCY (F)	O.A. REQ'D (C/F + BxD)**
CLASSROOMS (7)	3,756	10	0.18	25/1,000 S.F.	98	1,656
KITCHEN	197	7.5	0.12	20/1,000 S.F.	4	53.64
OFFICE (3)	152	5	0.06	5/1,000 S.F.	1	14.12
RECEPTION	100	5	0.06	30/1,000 S.F.	3	21
CORRIDOR	1,325	--	--	--	--	79.5
LAUNDRY	45	7.5	0.12	20/1,000 S.F.	1	12.9
RESTROOMS (7)	201	--	--	--	--	0
<b>TOTAL</b>	<b>5,776</b>					<b>1,837.16</b>
TOTAL O.A. PROVIDED***						1,850
TOTAL AIR PROVIDED***						6,000

\* TABLE 6-1, ASHRAE 62.1-2010.  
 \*\* VR = R<sub>p</sub> x P + R<sub>z</sub> x A (PER ASHRAE 62.1-2010)  
 \*\*\* PROVIDED BY OUTSIDE AIR INTAKES  
 \*\*\*\* PROVIDED BY 10-TON UNIT - SEE PLANS NOTES.



**ISM 48-4 ETL**  
 STAINLESS STEEL EXHAUST HOOD WITH MAKEUP AIR VERT  
 ETL APPROVED, N.S.F. LISTED, CONFORMS TO NFPA 96  
 LISTED TO 214-48000 CONFORMS TO UL LISTED 716

Technical drawings for the ISM 48-4 ETL hood, including a typical hood system installation and a hood specification table.

MODEL	WIDTH	DEPTH	HEIGHT	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE
ISM 48-4 ETL	48"	48"	36"	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL

OPTIONAL ACCESSORIES (SEE NOTES)  
 SUPPLY AIR DUCT WITH INSULATION  
 MAKEUP AIR DUCT WITH INSULATION  
 EXHAUST DUCT WITH INSULATION  
 EXHAUST FAN WITH INSULATION  
 EXHAUST FAN WITH INSULATION  
 EXHAUST FAN WITH INSULATION  
 EXHAUST FAN WITH INSULATION

**SUPERIOR HOODS**  
 2016 STEEL DRIVE TUCKER, GA 30084  
 TEL (770) 936 0770 FAX (770) 936 9914

Order Plans @ WWW.LDILine.com

<p><b>REVISIONS:</b></p> <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Revised by / Submissions</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> <p><b>NOTES:</b></p> <p>THIS DRAWING AND ALL RELATED DOCUMENTS ARE THE PROPERTY OF THE DESIGN TEAM &amp; SHALL REMAIN THE PROPERTY OF THE DESIGN TEAM. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN THE TITLE BLOCK. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE DESIGN TEAM.</p> <p><b>DESIGN ASSUMPTIONS:</b></p> <p>THE CONTRACTOR SHALL VERIFY THE GENERAL BODY OF THE PROJECT'S ARCHITECTURAL DESIGN CONCEPTS, THE DIMENSIONS OF THE BUILDING, THE MAJOR ARCHITECTURAL ELEMENTS AND THE TYPE OF STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS OF THE BUILDING AND THE MAJOR ARCHITECTURAL ELEMENTS AND THE TYPE OF STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS OF THE BUILDING AND THE MAJOR ARCHITECTURAL ELEMENTS AND THE TYPE OF STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS.</p>	No.	Date	Revised by / Submissions																															<p><b>SHEET TITLE</b></p> <p><b>MECHANICAL NOTES, DETAILS, OUTDOOR AIR</b></p> <p><b>PROJECT NAME</b></p> <p><b>CREEK STONE ACADEMY CHILDCARE CENTER</b></p> <p>2485 MEMORIAL DRIVE                  ATLANTA, GA 30317                  (DEKALB COUNTY)</p>	<p><b>STAMP</b></p> <p><b>ISSUED FOR CONSTRUCTION</b></p>	<p><b>ISSUE DATE:</b> FEB 2019  <b>PROJECT:</b> CREEK STONE  <b>DRAWN:</b> TEAM  <b>SHEET No.:</b>  <span style="font-size: 24px; font-weight: bold;">M2</span></p>
No.	Date	Revised by / Submissions																																		