

GREASE HOOD SYSTEM CALCULATION

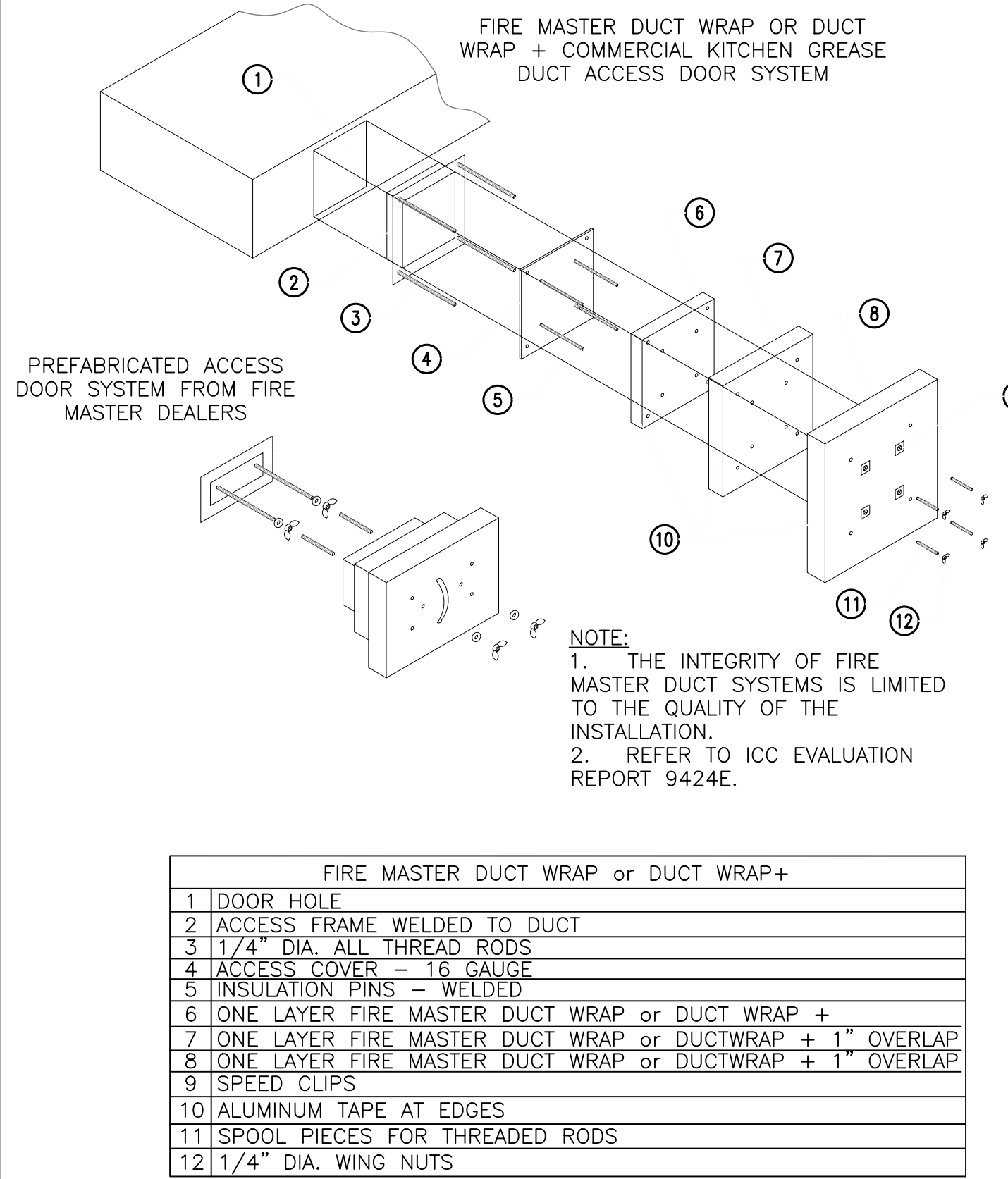
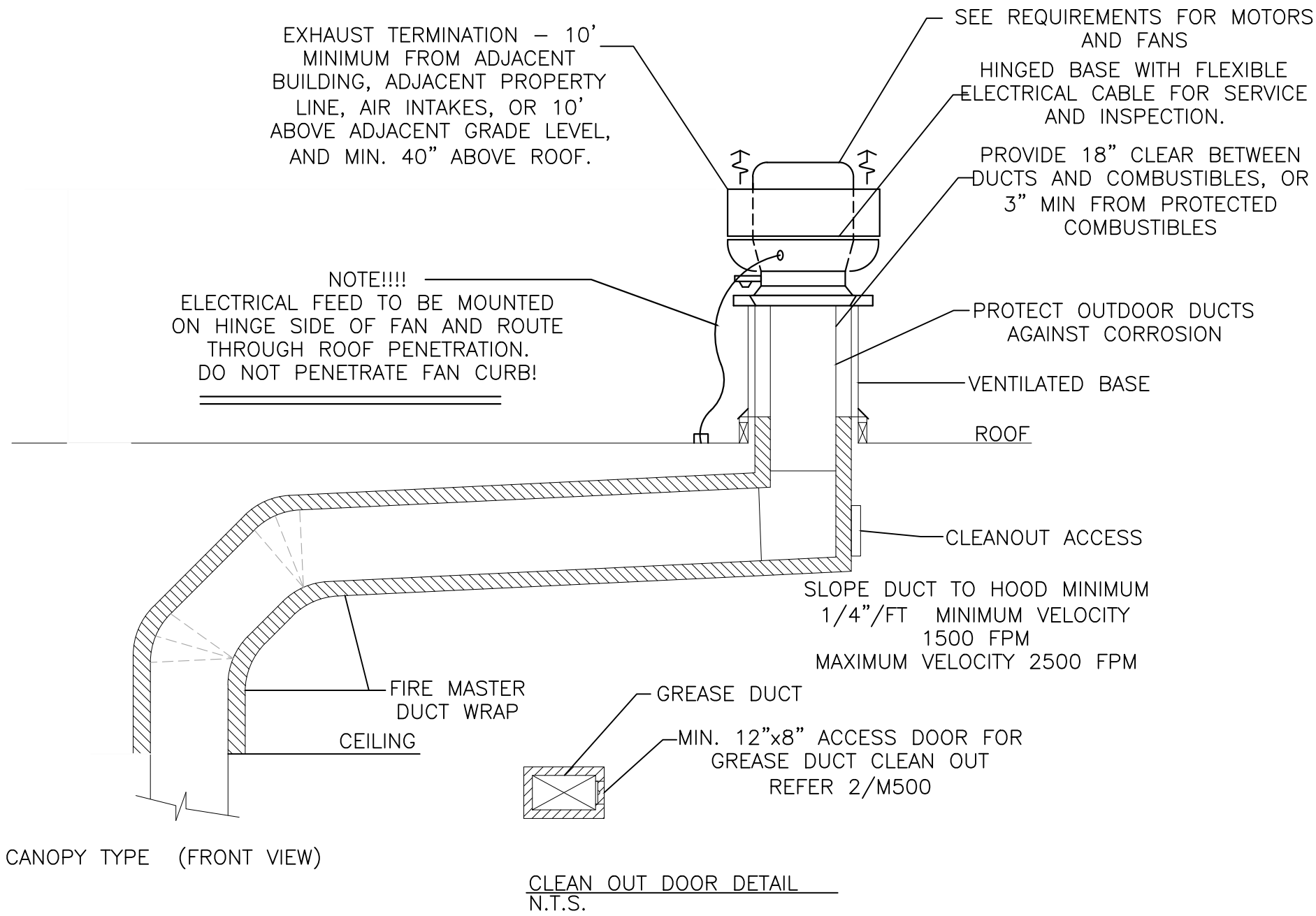
1. TYPE : CANOPY TYPE I, STAINLESS STEEL 18 GAUGE.
2. COOKING EQUIPMENT: CHINESE RANGE, (2) DEEP FRYER, RICE COOKER, GAS GRIDDLE
3. SIZE: 20'-6" x 4'-0" + 22" MAKEUP AIR PLENUM
4. MIN. REQ'D CAPACITY CFM: (2) U.L. LISTED HOOD @ 2,600 CFM EACH
5. PROPOSED (1) EXHAUST FAN & (1) MAKE-UP AIR UNIT. EF1 (5,200 CFM ); MAU1 (4,160 CFM, 80% OF EXHAUST)
6. EXHAUST DUCT SIZE: 2(20"x12")
7. EXHAUST VELOCITY @ EXHAUST DUCT  $2600/(20"x12"/144)= 1560$   
 $1560 \text{ FPM } 1500\text{FPM} < 1560 \text{ FPM} < 2500\text{FPM}$
8. EXHAUST FAN (EF1) AND MAKE-UP AIR UNIT (MAU1) SHALL BE ELECTRICALLY INTERLOCKED
9. FOR CODE COMPLIANCE SEE DETAIL
10. FOR FILTER INFORMATION SEE CAPTIVEAIRE DWG #H-000.

INFORMATIONAL GUIDE FOR COMMERCIAL COOKING HOODS

1. STAINLESS STEEL TO BE NO. 18 U.S. GAGE.
2. WHEN GUTTERS ARE PROVIDED THEY SHALL DRAIN TO A COLLECTING PAN WHICH IS READILY ACCESSIBLE FOR CLEANING
3. SEE TABLE 507.11 FOR MINIMUM DISTANCE BETWEEN LOWER EDGE OF GREASE FILTER AND THE COOKING OR HEATING SURFACE.
4. GREASE FILTERS SHALL BE OF STEEL CONSTRUCTION AND READILY ACCESSIBLE FOR CLEANING.
5. ALL JOINTS AND SEAMS SHALL BE GREASE TIGHT.
6. HOODS SHALL BE SECURELY FASTENED IN PLACE BY INCOMBUSTIBLE SUPPORTS.

NOTES

1. PROVIDE ADEQUATE CLEANOUT OPENINGS FOR THOROUGH CLEANING OF DUCT SYSTEM.
2. PROVIDE ADEQUATE MAKE-UP AIR FOR PROPER OPERATION.
3. THICKNESS OF DUCTS SHALL BE:  
DUCT AREA U.S. GAGE STEEL  
UP TO 4 SQ. FT. 16 GA  
OVER 4 SQ. FT. 14 GA
4. WELD OR BRAZE ALL DUCT JOINTS AND SEAMS ON THE EXTERNAL SURFACE.
5. SUPPORT THE DUCTS AS REQUIRED. DO NOT PENETRATE DUCT WALLS WITH SCREWS, NAILS, ETC.
6. SECTIONS OF DUCT SHALL NOT CONTAIN GREASE POCKETS.



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HOOD DETAIL PLAN

BID SET DATE: 04/06/2022 (NOT FOR CONSTRUCTION)