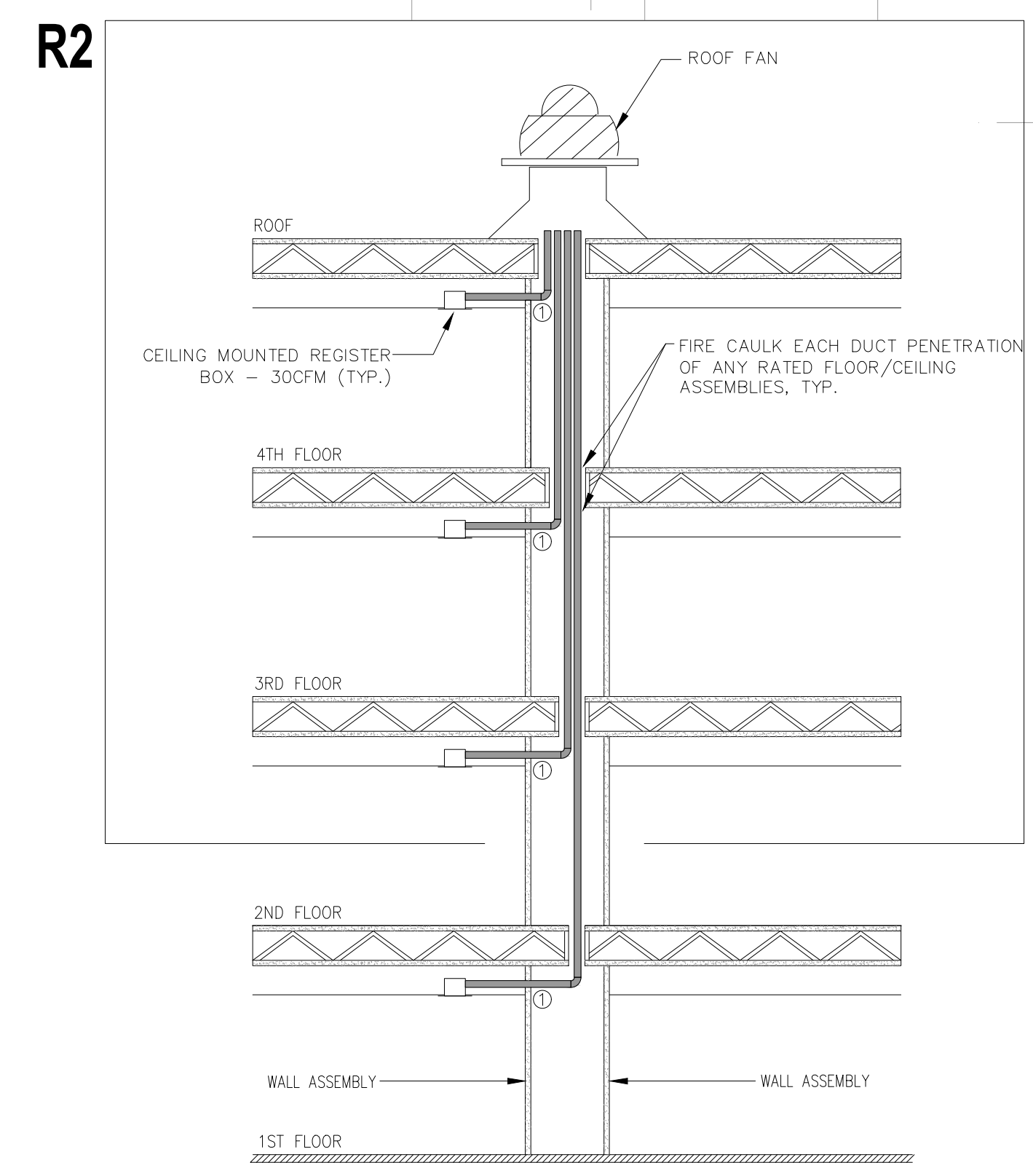
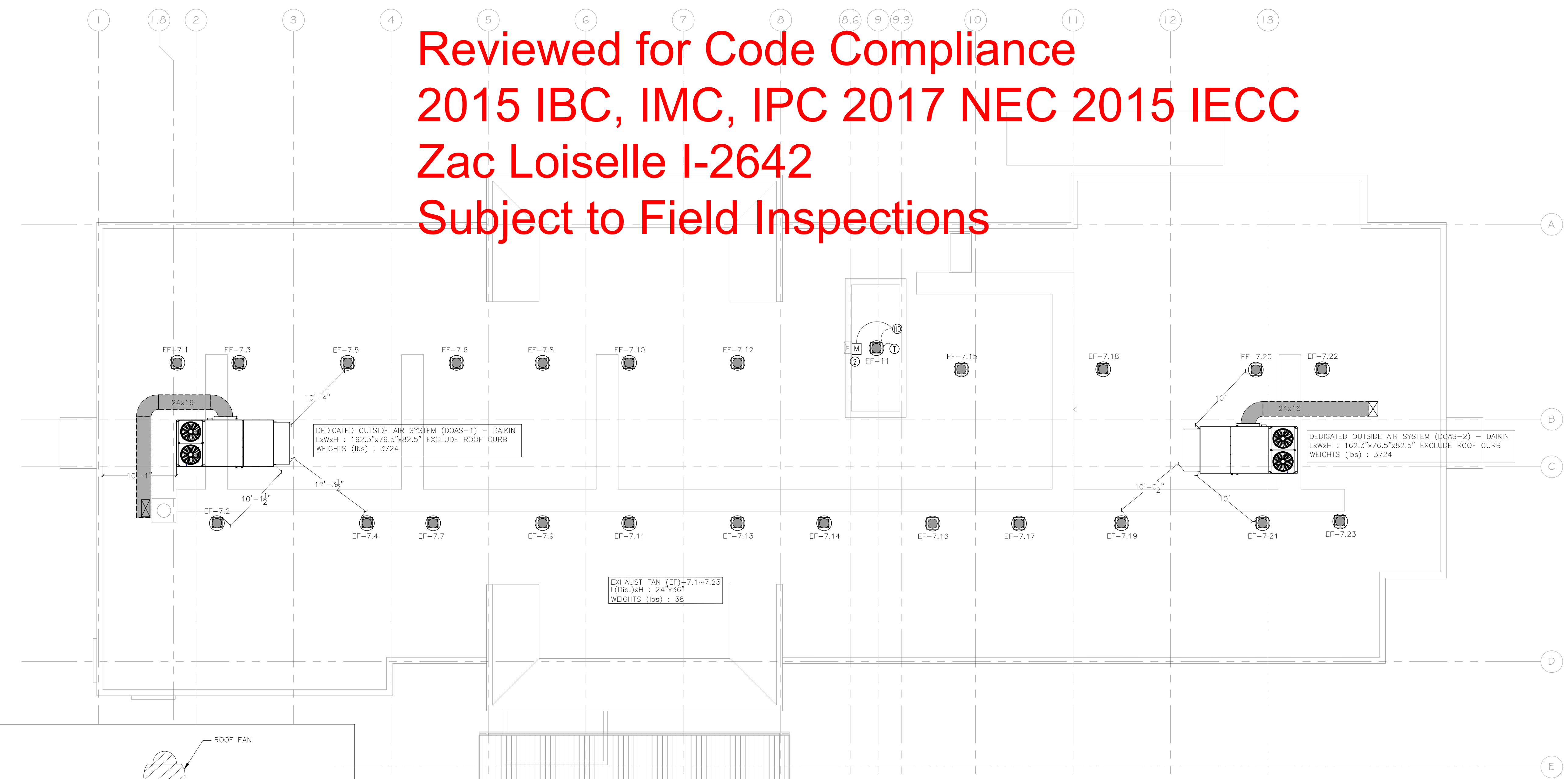


Reviewed for Code Compliance
2015 IBC, IMC, IPC 2017 NEC 2015 IECC
Zac Loiselle I-2642
Subject to Field Inspections



EXHAUST AIR FLOW PER TABLE 403.3.1.1 - 2015 IBC

AREA SERVED	FLOOR AREA (Square feet)	OCCUPANT LOAD (P)	PEOPLE OUTDOOR AIR RATE (CFM/person)	AREA OUTDOOR AIR RATE (CFM/unit area)	EXHAUST AIRFLOW RATE (CFM/unit area)	EXHAUST AIR REQUIRED (CFM)	EXHAUST AIR PROVIDED (CFM)
ELEVATOR SHAWT	125	---	---	---	1.00	150	400 (EF-11)

R_a AREA OUTDOOR AIR RATE; THE OUTDOOR AIRFLOW RATE REQUIRED PER UNIT AREA FROM TABLE 403.3.1.1.

MECHANICAL ROOF PLAN
 SCALE: 1/8"=1'-0"

NOTES (TOILET EXHAUST RISER):

1. IMC SECTION 607.6.1 THROUGH PENETRATIONS: IN OCCUPANCIES OTHER THAN GROUPS I-2 AND 1-3, A DUCT CONSTRUCTED OF APPROVED MATERIALS IN ACCORDANCE WITH SECTION 603 THAT PENETRATES A FIRE-RESISTANCE-RATED FLOOR/CEILING ASSEMBLY THAT CONNECTS NOT MORE THAN TWO STORIES IS PERMITTED WITHOUT SHAFT ENCLOSURE PROTECTION PROVIDED THAT A LISTED FIRE DAMPER IS INSTALLED AT THE FLOOR LINE OR THE DUCT IS PROTECTED IN ACCORDANCE WITH SECTION 714.4 OF THE IBC. EXCEPTIONS TO THIS CODE ARE AS FOLLOWS:
 DUCT IS PERMITTED TO PENETRATE THREE FLOORS OR LESS WITHOUT A FIRE DAMPER AT EACH FLOOR PROVIDED IT MEETS ALL OF THE FOLLOWING REQUIREMENTS:
 A) THE DUCT SHALL BE CONTAINED AND LOCATED WITHIN THE CAVITY OF A WALL AND SHALL BE CONSTRUCTED OF STEEL NOT LESS THAN 0.019 INCH (26 GAGE) IN THICKNESS.
 B) THE DUCT SHALL OPEN INTO ONLY ONE DWELLING UNIT OR SLEEPING UNIT AND THE DUCT SYSTEM SHALL BE CONTINUOUS FROM THE UNIT TO THE EXTERIOR OF THE BUILDING.
 C) THE DUCT SHALL NOT EXCEED 4-INCH NOMINAL DIAMETER AND THE TOTAL AREA OF SUCH DUCTS SHALL NOT EXCEED 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF THE FLOOR AREA.
 D) THE ANNULAR SPACE AROUND THE DUCT IS PROTECTED WITH MATERIALS THAT PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHERE SUBJECTED TO ASTM E 119 TIME-TEMPERATURE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AT THE LOCATION OF THE PENETRATION FOR THE TIME PERIOD EQUIVALENT TO THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION PENETRATED. ICS
 E) GRILLE OPENINGS LOCATED IN A CEILING OF A FIRE-RESISTANCE-RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY SHALL BE PROTECTED WITH A LISTED CEILING RADIATION DAMPER INSTALLED IN ACCORDANCE WITH SECTION 607.6.2. IF CEILING IS NOT RATED, CRD WILL NOT BE REQUIRED.
2. SMOKE DAMPERS ARE NOT REQUIRED TO BE INSTALLED IN THIS APPLICATION.
3. SEE FLOOR PLANS FOR ROUTING. COORDINATE EXACT LOCATIONS OF DUCTWORK IN WALLS WITH PLUMBING PIPING AND STRUCTURE.

GENERAL NOTES

1. ALL ROOF MOUNTED HVAC EQUIPMENT, INCLUDING BUT NOT LIMITED TO EXHAUST FANS, CONDENSING UNITS, AND ROOF-TOP UNITS, SHALL BE A MINIMUM OF 10' FROM THE ROOF'S EDGE, OR PARAPET, UNLESS OTHERWISE NOTED ON PLANS. IN SUCH CASE, CONTRACTOR SHALL COORDINATE WITH ARCHITECT TO PROVIDE SAFETY HANDRAILS AROUND ROOF MOUNTED HVAC EQUIPMENT THAT IS LOCATED LESS THAN 10' FROM ROOF'S EDGE, OR PARAPET.
2. ALL EXPOSED DUCT WORK ON ROOF SHALL BE INSULATED WITH MINIMUM R-12 INSULATION. PROVIDE WEATHER HOOD/ ALUMINUM HOUSE JACKETING AS REQUIRED.
3. PROVIDE THE FSD AT THE RATED ROOF/CEILING ASSEMBLY FROM MAU AS REQUIRED. FIELD VERIFY AT FIELD.
4. PROVIDE TRANSITION AS REQUIRED TO CONNECT THE EXHAUST DUCT TO THE ROOF FAN ON THE ROOF. FIELD VERIFY EXACT LOCATION AT SITE.

KEY NOTES:

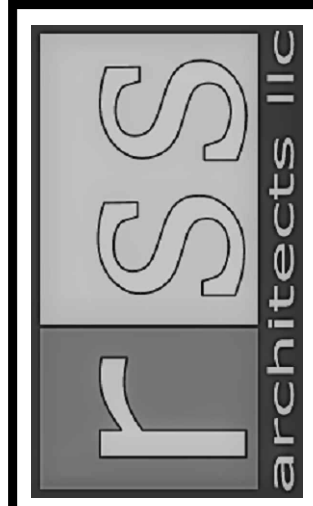
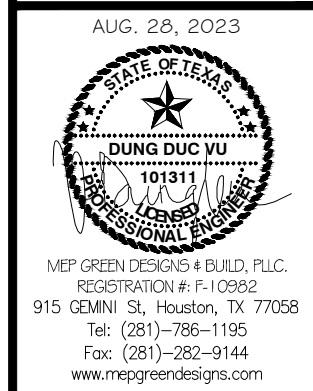
1. THE CONTRACTOR MUST PROTECT THE ANNULAR SPACE AROUND THE DUCT WITH MATERIALS THAT PREVENT THE PASSAGE OF FLAME AND HOT GASES SUFFICIENT TO IGNITE COTTON WASTE WHEN SUBJECTED TO ASTM E 119 OR UL 263 TIME-TEMPERATURE CONDITIONS UNDER A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH (2.49 PA) OF WATER AT THE LOCATION OF THE PENETRATION FOR THE TIME PERIOD EQUIVALENT TO THE FIRE-RESISTANCE RATING OF THE CONSTRUCTION PENETRATED.
2. INTERLOCKED HEAT DETECTOR AND ELEVATOR LOBBY SMOKE DETECTORS WITH MOTORIZED DAMPER TO CLOSE, AND SHUT OFF THE FAN UPON ACTIVATION OF ANY OF THESE DEVICES.

R1 EXHAUST RISER
 SCALE: N.T.S.

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