

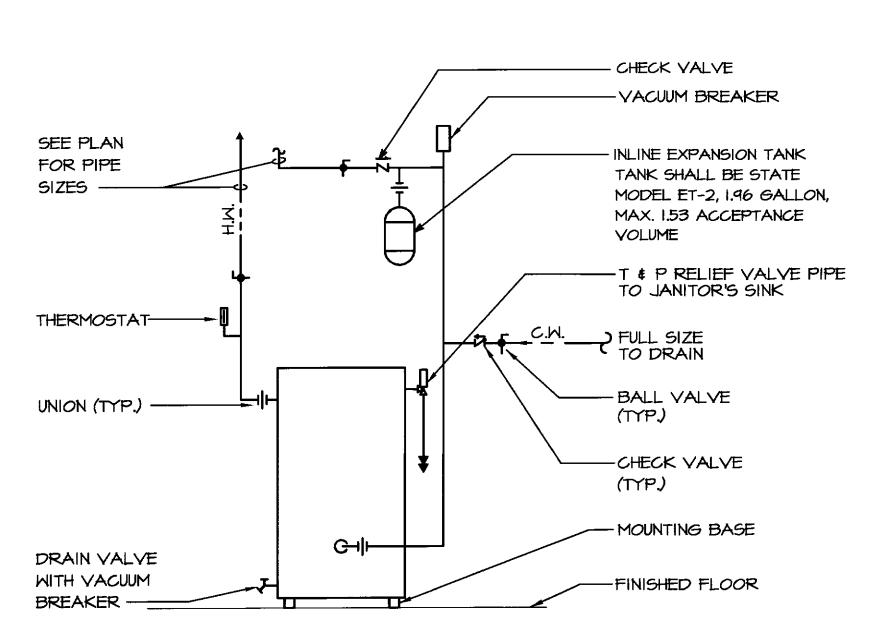
I) ALL HANGERS FOR COPPER PIPING SHALL BE COPPER COATED.

NO SCALE

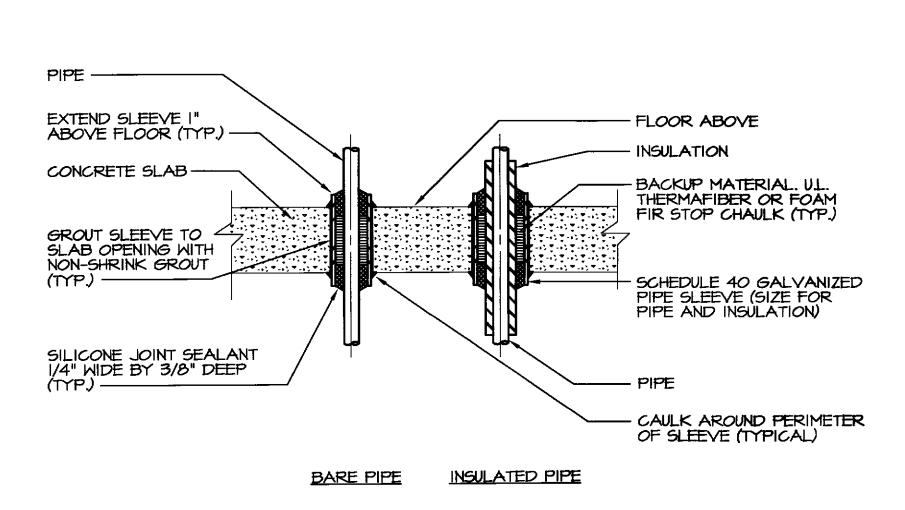
NO SCALE

- ADJUSTABLE TOP
FLOOR DRAIN/ CLEAN
OUT FLUSH WITH OWNER
PROVIDED FINISH FLOOR
SURFACE -SEAL WITH **WATERPROOF** CAULKING -WATERPROOF FLASHING 2'-0" DIA MIN REQUIRED AROUND OPENING -WATERPROOF MEMBRANE -PATCH FLOOR SLAB WITH HYDRAULIC CEMENT -FLOOR DRAIN OR CLEAN OUT **■** CONCRETE SLAB -CORE AS REQUIRED FIRE STOPPING I.PROVIDE A WATERPROOF MEMBRANE OVER FLOOR AREA 2. FIRESTOPPING APPLIED PER INSTRUCTIONS UNDER MANUFACTURER'S APPROPRIATE U.L. TEST NUMBER

TYPICAL FLOOR DRAIN DETAIL



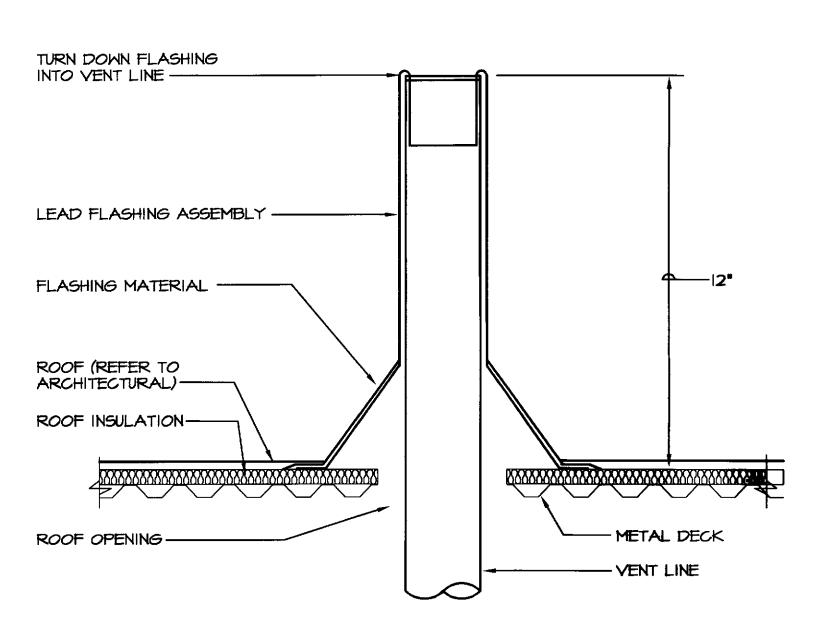
ELECTRIC WATER HEATER PIPING SCHEMATIC



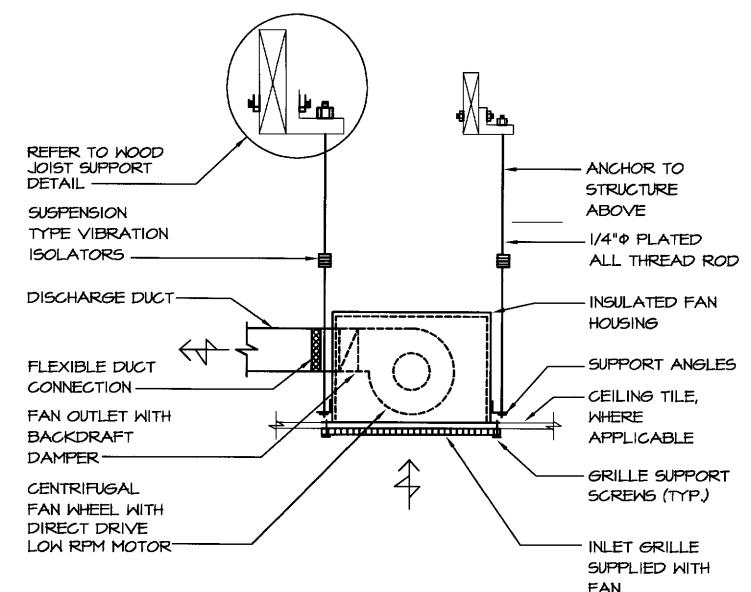
CONCRETE SLAB DETAIL NO SCALE

<u>NOTES</u>

I) AT THE CONTRACTORS' OPTION A U.L. LISTED/APPROVED FIRE STOP PIPE SLEEVE ASSEMBLY MAY BE SUBMITTED FOR APPROVAL.



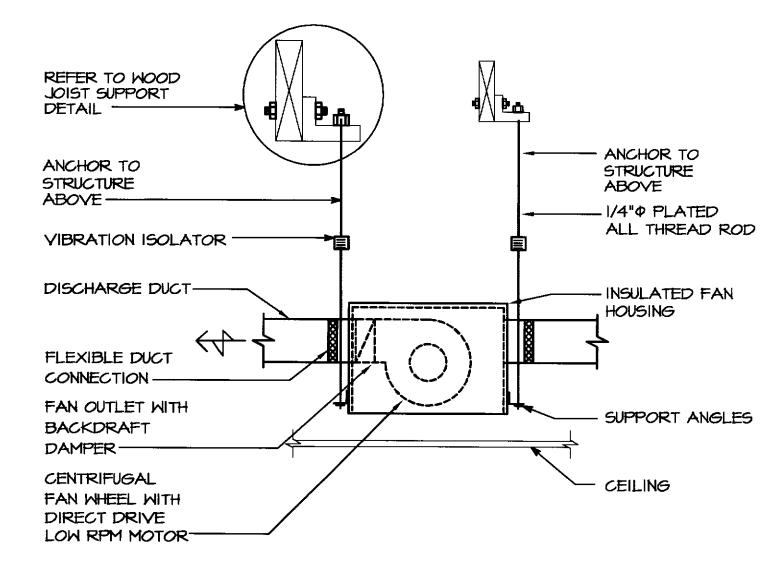
VENT PIPE THRU ROOF DETAIL NO SCALE



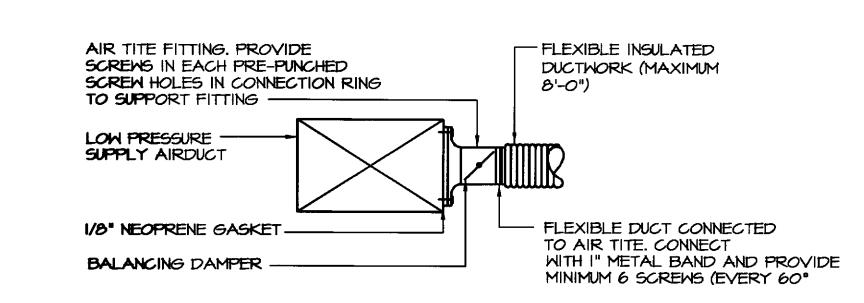
CEILING MOUNTED EXHAUST FAN DETAIL NO SCALE

NOTE: I) PROVIDE VARIABLE SPEED SWITCH ON THE SIDE OF THE CASING FOR FINAL AIR BALANCE.

2) TOILET ROOM FAN SHALL HAVE 5 MINUTE TIME DELAY TO ALLOW FAN TO RUN AFTER LIGHTS ARE DE-ENERGIZED



IN-LINE CEILING MOUNTED EXHAUST FAN DETAIL NO SCALE

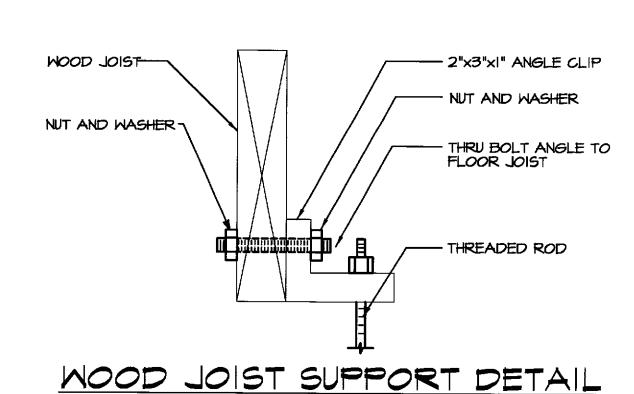


AIR TITE FITTING DETAIL NO SCALE

AIR TITE SIZE CHART			
DUCTSIZE	CONNECTION RING	DUCTSIZE	CONNECTION RING
5"	8"	q "	12"
6"	q "	10"	13"
7"	10"	II.	15"
8*	11#	12"	17"

NOTE:

1) WHERE CONNECTION RING SIZE IS LARGER THAN SUPPLY DUCT, THEN CONNECTION RING SHALL BE CRIMPED OVER DUCT AND CONNECTED, SCREWED & SEALED ON TOP AND BOTTOM OF SUPPLY DUCT.

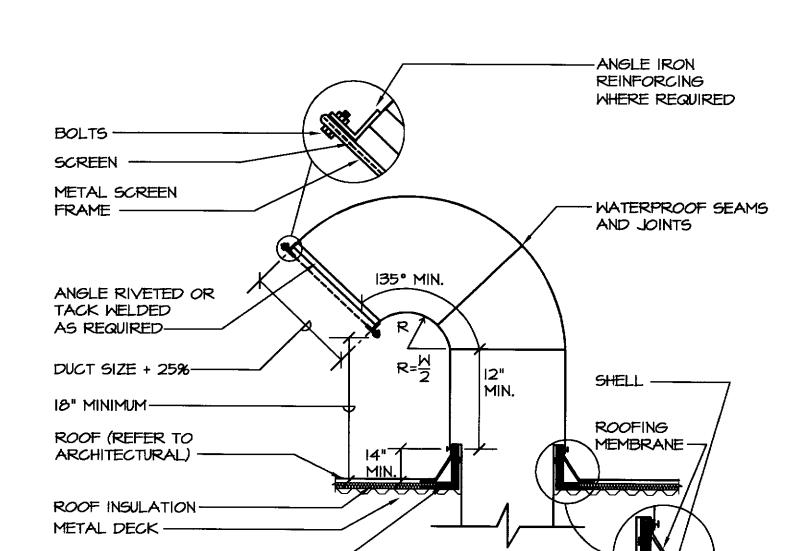


NO SCALE

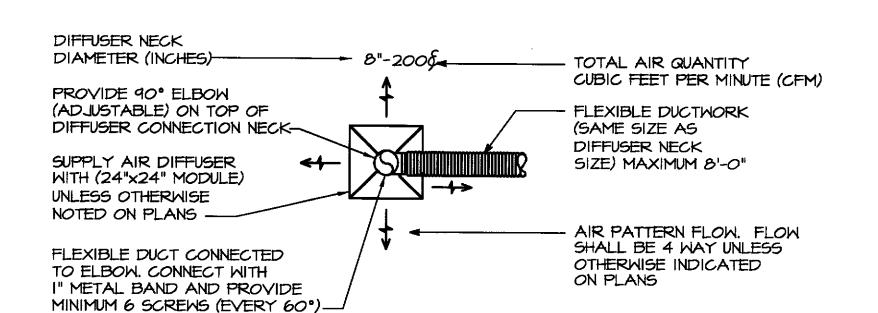
FLASH AND SEAL

INTO EXISTING

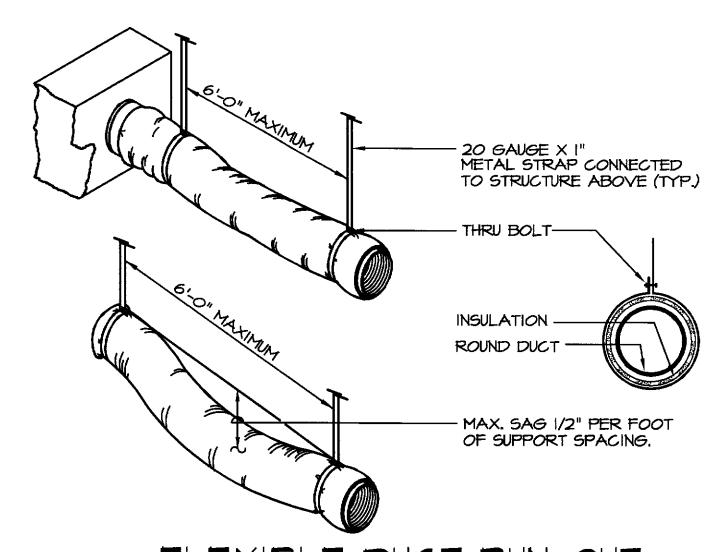
ROOF SYSTEM



GOOSENECK THRU ROOF DETAIL NO SCALE



SUPPLY AIR DIFFUSER KEY NO SCALE



FLEXIBLE DUCT RUN-OUT SUPPORT DETAIL NO SCALE

NOTES:

I) FLEXIBLE DUCT SHOULD EXTEND STRAIGHT FOR SEVERAL INCHES FROM RECTANGULAR DUCT CONNECTION BEFORE

2) FLEXIBLE DUCT SHOULD NOT EXCEED 8'-0" IN LENGTH. USE RIGID ROUND DUCTWORK WHEN RUNOUTS EXCEED

REV# DATE DESCRIPTION

DON PENN CONSULTING ENGINEERS 3960 HIGHWAY 360, SUITE 101 **GRAPEVINE, TEXAS 76051** 817-410-2858 FAX 817-251-8411

SURVEYORS Columbia, Maryland

FREDRICK WARD ASSOCIATES, INC. ENGINEERS | P.O. Box 727, 5 South Main Street Bel Air, Maryland 21014-0727 ARCHITECTS Phone: 410-879-2090 or 410-838-7900 Fax: 410-893-1243

Warrenton, Virginia

TENANT RENOVATIONS FOR: RMS LIFE LINE RIVERSIDE, CALIFORNIA

Draving No. 9/11/01 AS NOTED DESIGNED BY DLI SHEET 3 OF 5 FVA JOB NUMBER 2011215.00 DL! JLR# 1-100a