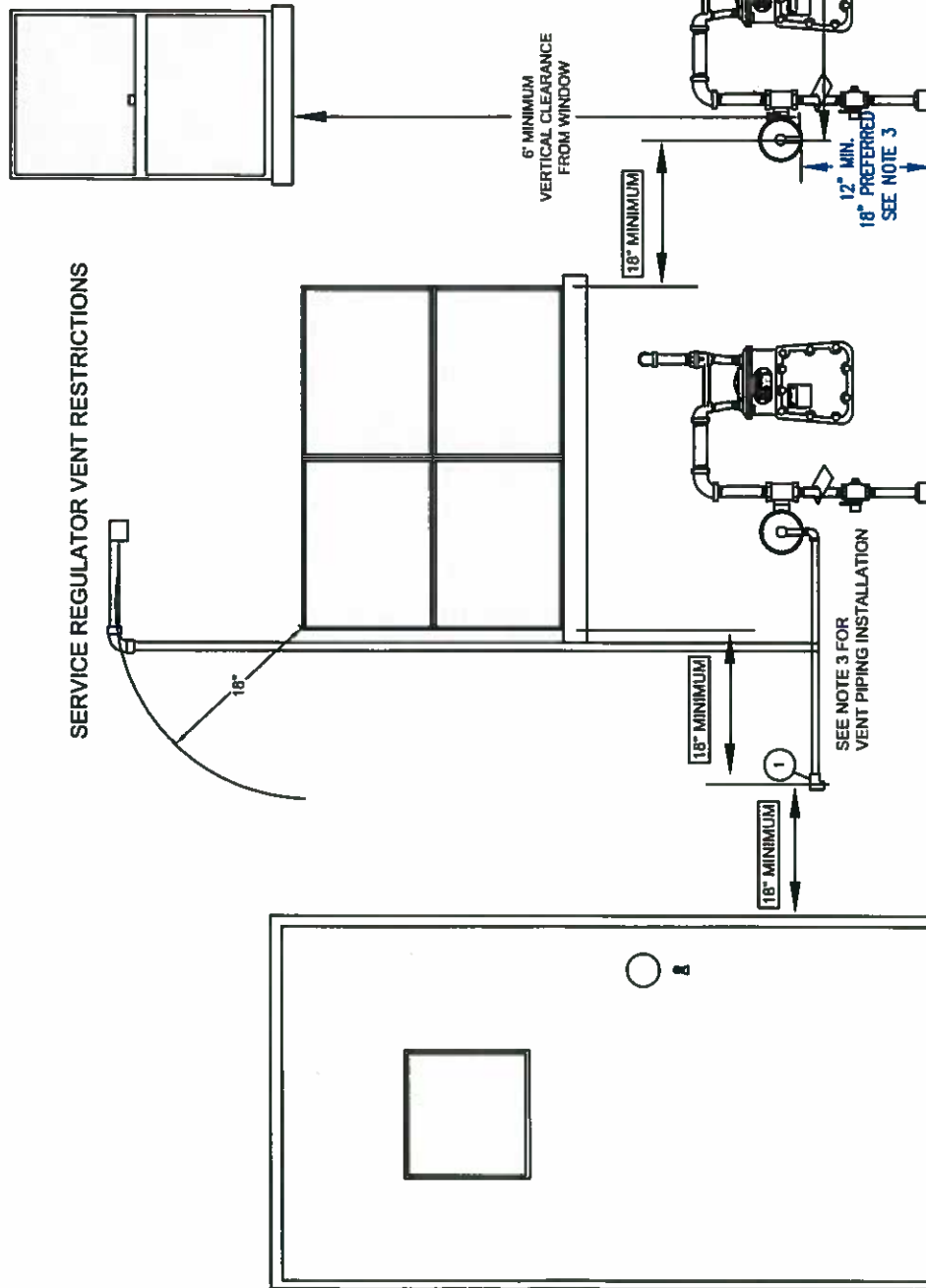
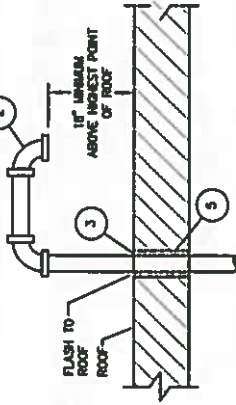


DOORS, WINDOWS & GRAVITY AIR INLETS

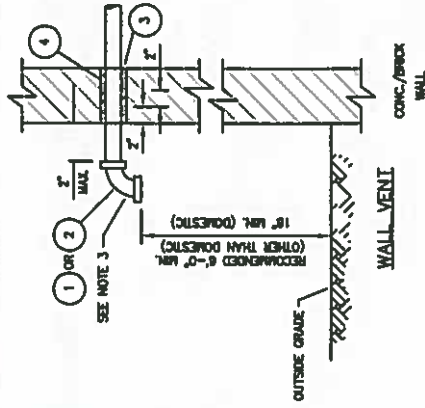


SERVICE REGULATOR VENT RESTRICTIONS

ROOF & WALL VENT DETAILS

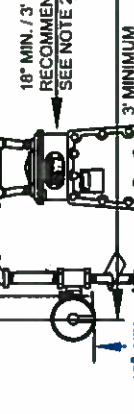


ROOF VENT OR CONC. SLAB



WALL VENT

CENTRAL A/C UNIT



#	ITEM	SIZE	ITEM ID	ORACLE	PROCESSED
4	PIPE SLEEVE				
3	SEALING COMPOUND	1"	00126057	NON STOCK	
2	ELBOW WITH RAIN & INSECT RESISTANT SCREEN	1-1/4"	00322596	NON STOCK	
		1-1/2"	00322595	NON STOCK	
		2"	00322587	NON STOCK	
1	VENT ASSEMBLY, WITH RAIN & INSECT RESISTANT SCREEN	3/4"	00322606	6010133	
		1"	00766211	NON STOCK	
		1-1/2"	00766214	6010165	

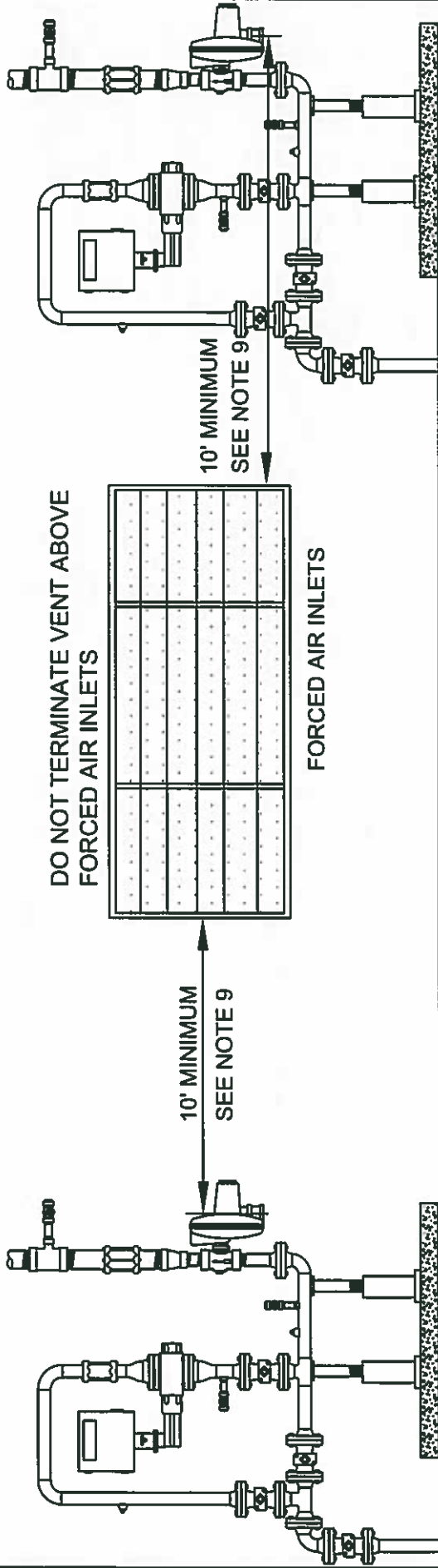
**nationalgrid**  
ALL REGIONS

**OUTDOOR LOCATION FOR REGULATOR AND RELIEF VALVE VENT TERMINUS**

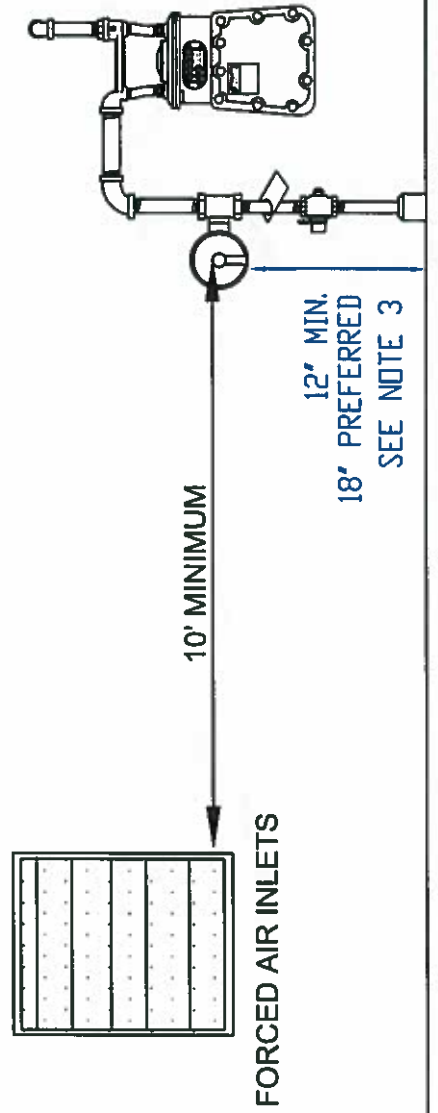
DATE: 07/15/2010      EFFECTIVE DATE: 11/15/2011  
 DESIGN: PAUL CUCILOTTA      STD. DWG.  
 DRAWN: PAUL CUCILOTTA      NO. 020013-CS

Key Changes: MODIFIED VENT HEIGHT TO:  
 12" MINIMUM AND 18" PREFERRED

LARGE COMMERCIAL & INDUSTRIAL INSTALLATIONS



DO NOT TERMINATE VENT ABOVE  
FORCED AIR INLETS



**NOTES:**

1. A VENT CANNOT BE LOCATED UNDER AN OVERHANG THAT CAN TRAP GAS SUCH AS A PITCHED AWNING WITH SIDES. A VENT MAY BE LOCATED UNDER A FLAT SURFACE HORIZONTAL OVERHANG UNDER 6' IN LENGTH AS LONG AS THE OVERHANG HAS NO OPENINGS INTO THE BUILDING WITHIN 18 INCHES OF THE VENT TERMINUS.
2. REGULATOR VENTS TERMINUS SHALL BE LOCATED AT LEAST 3 FT FROM SOURCES OF IGNITION. IT IS RECOMMENDED THAT GAS METERS BE LOCATED 3 FEET FROM SOURCES OF IGNITION; HOWEVER, A MINIMUM DISTANCE OF 18" IS REQUIRED.
3. THE OUTSIDE TERMINAL OF EACH SERVICE REGULATOR VENT MUST:
  - HAVE A RAIN AND INSECT RESISTANT SCREEN
  - BE LOCATED AT A PLACE WHERE ANY VENTING GAS CAN ESCAPE FREELY INTO ATMOSPHERE
  - BE AWAY FROM ANY WINDOWS, DOORS, SOFFIT VENTS OR ANY OPENINGS WHERE GAS CAN ENTER THE BUILDING. MAINTAIN A MINIMUM OF 18 INCHES HORIZONTAL CLEARANCE IF THAT OPENING IS WITHIN 6 FEET VERTICALLY OF THE VENT TERMINUS.
  - BE PROTECTED FROM DAMAGE WHERE ICE ACCUMULATION MAY OCCUR
  - IT IS PREFERRED THAT REGULATOR VENTS BE INSTALLED AT A HEIGHT 18 INCHES ABOVE GRADE, HOWEVER, THE MINIMUM ALLOWABLE VENT HEIGHT SHALL BE 12 INCHES ABOVE FINAL GRADE. IN CASES OF KNOWN FLOOD LOCATIONS, THE PREFERRED REGULATOR VENT HEIGHT ABOVE THE FLOOD HEIGHT IS 18" (12" MINIMUM).
4. GAS METERS, REGULATORS AND VENTS MUST BE A MINIMUM OF 12" FROM A STANDARD ELECTRIC METER. STANDARD ELECTRIC METERS ARE NOT CONSIDERED A SOURCE OF IGNITION.
5. THE METER ASSEMBLY SHALL BE LOCATED TO PREVENT DAMAGE BY VEHICLES AND MECHANICAL EQUIPMENT. WHERE THIS IS NOT PRACTICAL, ADDITIONAL PROTECTION SHALL BE INSTALLED. SEE MTRS-6060.
6. GALVANIZED PIPE AND FITTINGS FOR VENT PIPING IS PREFERRED. PROPERLY COATED BLACK IRON PIPE IS PERMITTED.
7. IF A VENT NEEDS TO BE EXTENDED, STRAIGHT PIPING IS PREFERRED, BUT IF NOT PRACTICAL, A VENT LINE "TRAP" IS ACCEPTABLE.
  - ON OUTSIDE METER SETS, AN INSULATED UNION (LI) OR INSULATED COUPLING (NY) IS PREFERRED ON ALL VENT LINES UNDER 3' AND REQUIRED ON ALL VENT LINES > 3'.
  - ON ALL INSIDE SETS, AN INSULATING UNION OR INSULATED COUPLING IS REQUIRED ON THE VENT PIPING. THIS INSULATED UNION OR INSULATED COUPLING SHALL BE LOCATED AS CLOSE TO THE REGULATOR AS POSSIBLE.
8. IT IS PREFERRED THAT THE METER AND RISER NOT BE LOCATED UNDER A WINDOW.
9. ON LARGE RESIDENTIAL, COMMERCIAL & INDUSTRIAL SETS WHERE LARGE FORCED AIR INTAKE SYSTEMS ARE PRESENT, ENGINEERING APPROVAL IS REQUIRED FOR REGULATOR/RELIEF VALVE TERMINATION POINTS.
10. VENT LINES SHOULD BE INSTALLED ABOVE GRADE. BELOW GRADE VENT LINES SHOULD BE AVOIDED. HOWEVER, WHERE IT IS NOT POSSIBLE, VENT LINES INSTALLED UNDERGROUND SHALL BE PROTECTED FROM CORRODING. THIS INCLUDES WRAPPING THE ENTIRE LINE WITH APPROVED COATING 030031-CS, INSTALLING A 3 LB BAG ANODE (ITEM ID 00304003) (OR LARGER) AND INSTALLATING AN INSULATING FITTING BETWEEN THE REGULATOR AND THE BELOW GRADE SECTION (TYPICALLY INSIDE THE BUILDING). FOR SITUATIONS THAT ARE NOT COVERED BY THE PROVISIONS OF THIS STANDARD, CONTACT GAS ENGINEERING.
11. ON EXISTING INSTALLATIONS WHERE UNDERGROUND VENT LINE IS FOUND, THE VENT LINE SHOULD BE RELOCATED ABOVE GROUND. IF THIS IS NOT POSSIBLE, IT MUST BE PRESSURE TESTED AT 3 PSIG AND INSPECTED FOR CORROSION. IF IT PASSES THE PRESSURE TEST AND THE PIPE IS VISUALLY ACCEPTABLE, IT THEN SHALL BE CATHOLICALLY PROTECTED PER 030031-CS AND BROUGHT IN TO COMPLIANCE AS DESCRIBED IN NOTE 10.

**CLEARANCE GUIDELINES:**

SITUATION	MINIMUM DISTANCE	ACCEPTABLE
STANDARD ELECTRIC METER	12 INCHES FROM GAS METER OR REGULATOR VENT TERMINUS	Y
IGNITION SOURCE	18 INCHES MINIMUM FROM GAS METER (36" RECOMMENDED) AND 36 INCHES MINIMUM REGULATOR VENT TERMINUS	Y
WINDOW, DOOR, SOFFIT VENT, OTHER OPENINGS INTO BUILDING	18 INCHES HORIZONTAL AND 6 FEET VERTICAL FROM REGULATOR VENT TERMINUS	Y
VENT TERMINUS UNDER FLAT OVERHANG	PROTRUDING LESS THAN 6 FEET	Y
VENT TERMINUS UNDER FLAT OVERHANG	PROTRUDING 6 OR MORE FEET	N
CENTRAL A/C UNIT	3 FEET FROM GAS METER OR REGULATOR VENT TERMINUS	Y
VENT TERMINUS UNDER AWNING/CANOPY WITH SIDES ENCLOSED	18 INCHES HORIZONTAL	Y
FORCED AIR INTAKE LARGE RESIDENTIAL, COMMERCIAL OR INDUSTRIAL	REQUIRES ENGINEERING APPROVAL	N/A
VENT TERMINUS CLEARANCE ABOVE FINAL GRADE	12 INCHES MINIMUM / 18 INCHES PREFERRED	Y
VENT TERMINUS CLEARANCE ABOVE KNOWN FLOOD LINE	12 INCHES MINIMUM / 18 INCHES PREFERRED	Y
VENT TERMINUS TO A CATEGORY 1 DIRECT VENT HEATERS	3 FEET FROM INTAKE OR EXHAUST OR PER MFGR. SPECS. WHICHEVER IS GREATER	Y
VENT TERMINUS TO SEWER VENT	18" RECOMMENDED	Y