

# Basic Plumbing Information

See [SWWICC.ORG](http://SWWICC.ORG)



This pamphlet contains illustrations of typical plumbing systems approved under the 2006 Uniform Plumbing Code (UPC) and the City of Vancouver. Variations due to structural conditions may be approved provided they are in compliance with the UPC.

All systems are to be tested, inspected and approved



# COMMON FITTINGS



#1 Medium turn 1/4 bend  
(90 deg)



#2 Long turn 1/4 bend  
(90 deg)



#3 Medium turn street  
1/4 bend



#4 Vent ell  
(90 deg)



#5 1/8 bend (45 deg)



#6 Street 1/8 bend  
(45 deg)



#7 1/16 bend  
(22 1/2 deg)



#8 1/6 bend  
(60 deg)



#9 Sanitary tee



#10 Sanitary tee reducing



#11 Vent tee



#12 Vent tee  
reducing

# COMMON FITTINGS



#13 Long radius tee



#14 Wye



#15 Double reducing wye



#16 Welded p-trap



#17 P-trap with union



#18 Closet flange



#19 Double fixture fitting



#20 Cleanout tee



#21 Sanitary cross



#22 Two way cleanout tee



#23 Low heel outlet 1/4 bend



#24 Mini arrester

# Table 10-1

## Horizontal Distance of Trap Arms

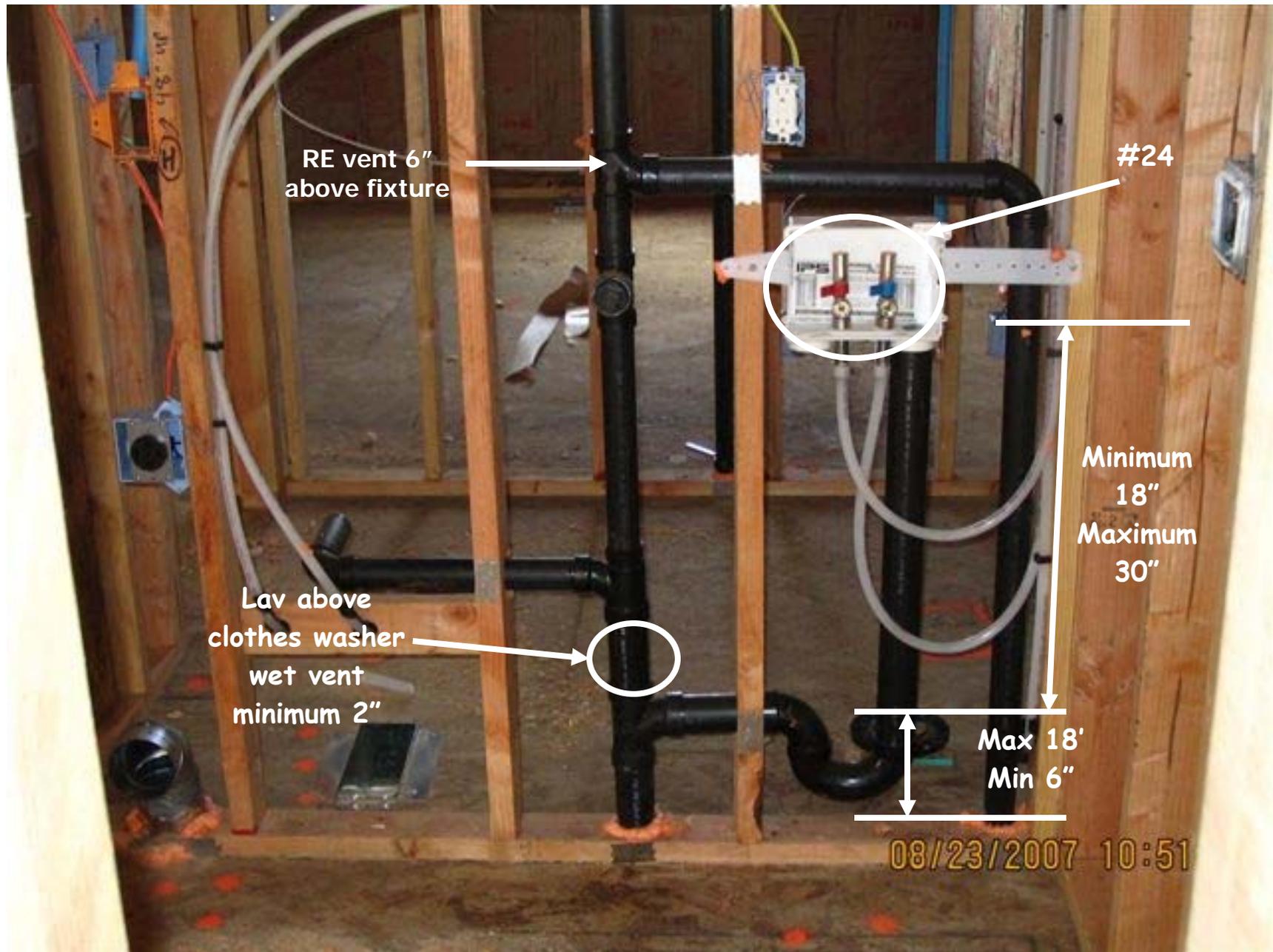
(Except for water closets and similar fixtures)\*

Trap Arm Inches	Distance Trap to Vent		Trap Arm mm	Distance Trap to Vent mm
	Feet	Inches		
1 $\frac{1}{4}$	2	6	32	762
1 $\frac{1}{2}$	3	6	40	1067
2	5	0	50	1524
3	6	0	80	1829
4 & larger	10	0	100 & larger	3048

Slope one-fourth (1/4) inch per foot (20.9 mm/m)

\*The developed length between the trap of a water closet or similar fixture (measured from the top of the closet ring <closet flange> to the inner edge of the vent) and its vent shall not exceed six (6) feet (1829mm).

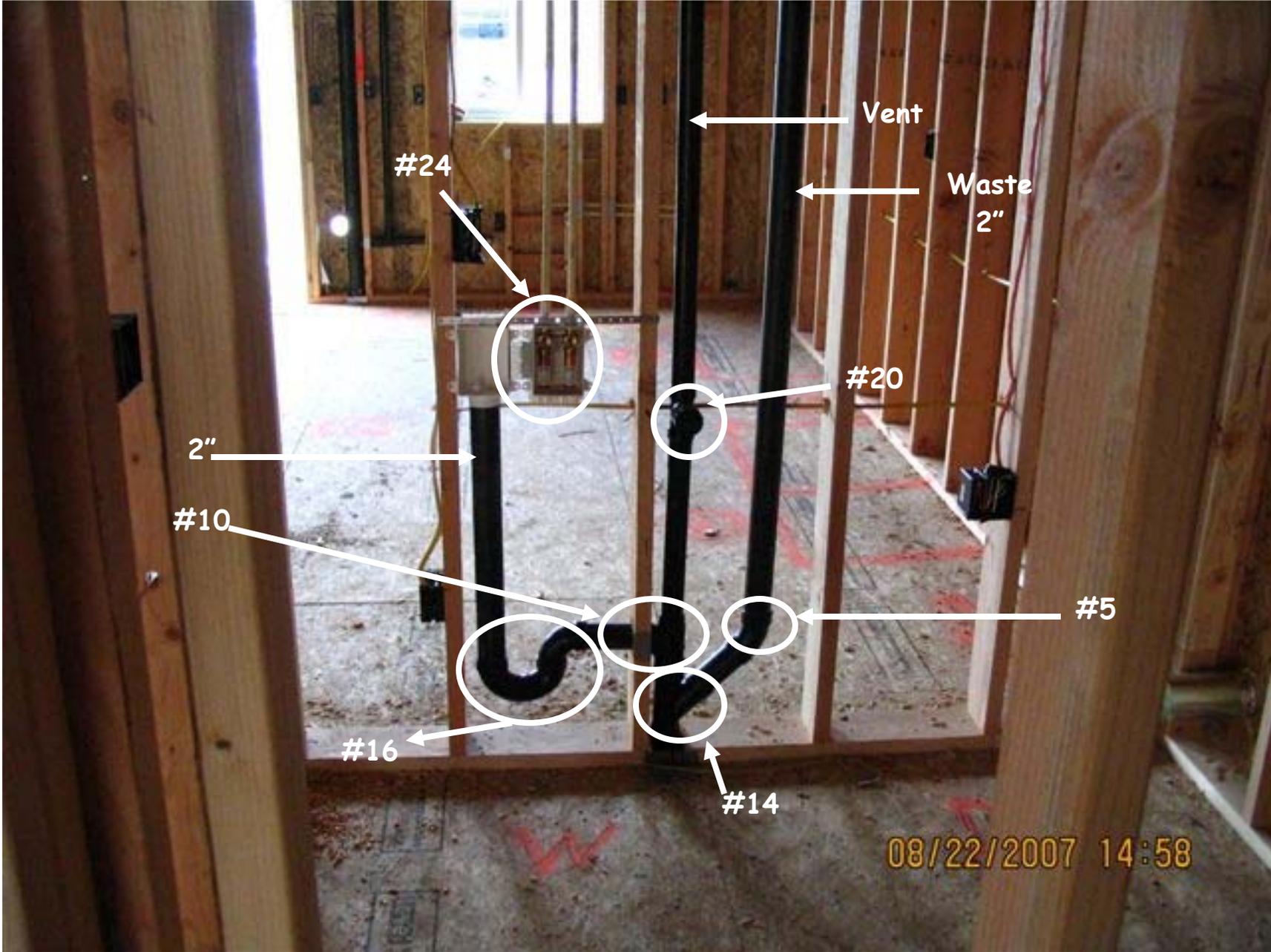
# Clothes Washer / Lav Waste



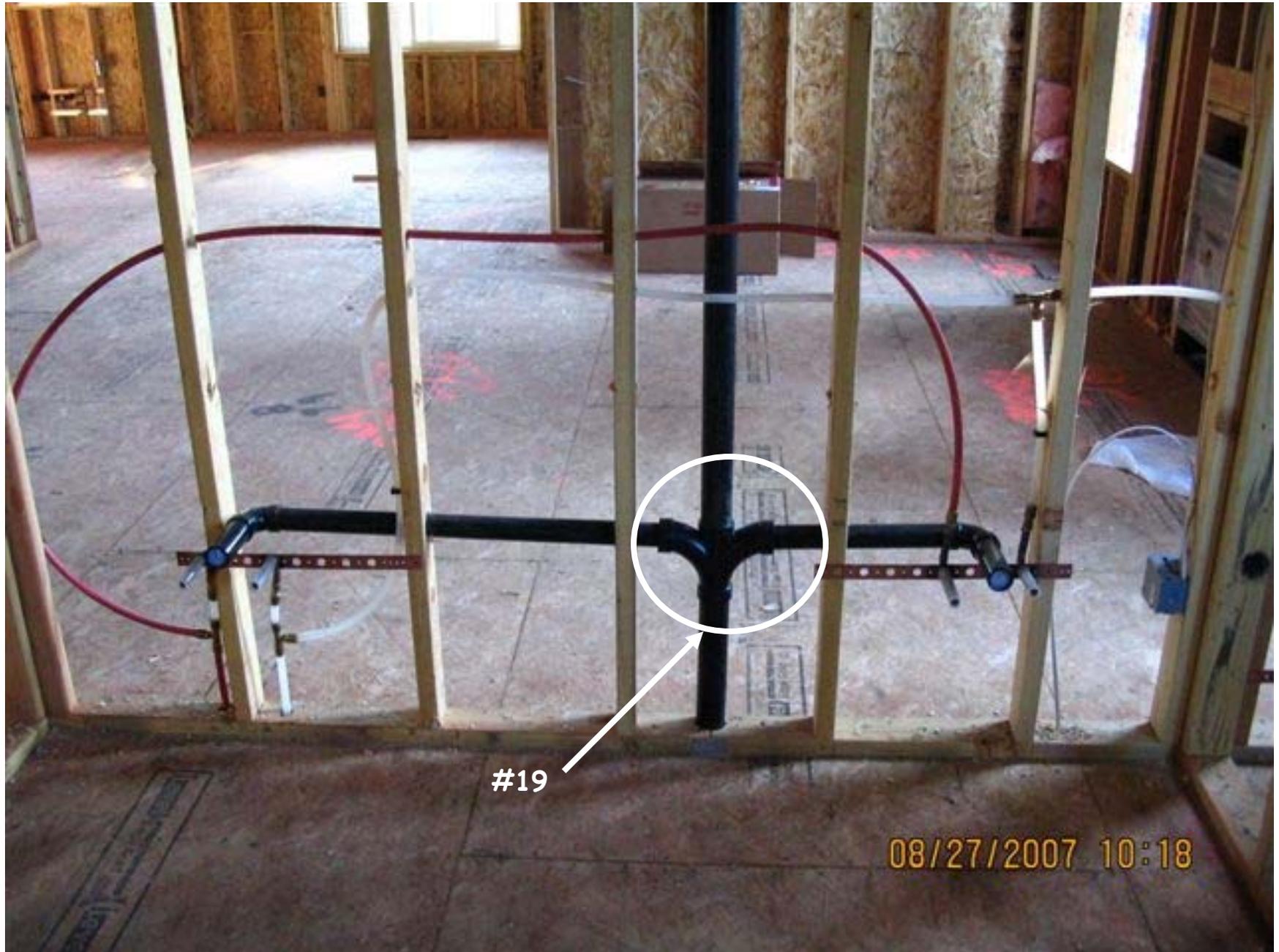
# Clothes Washer



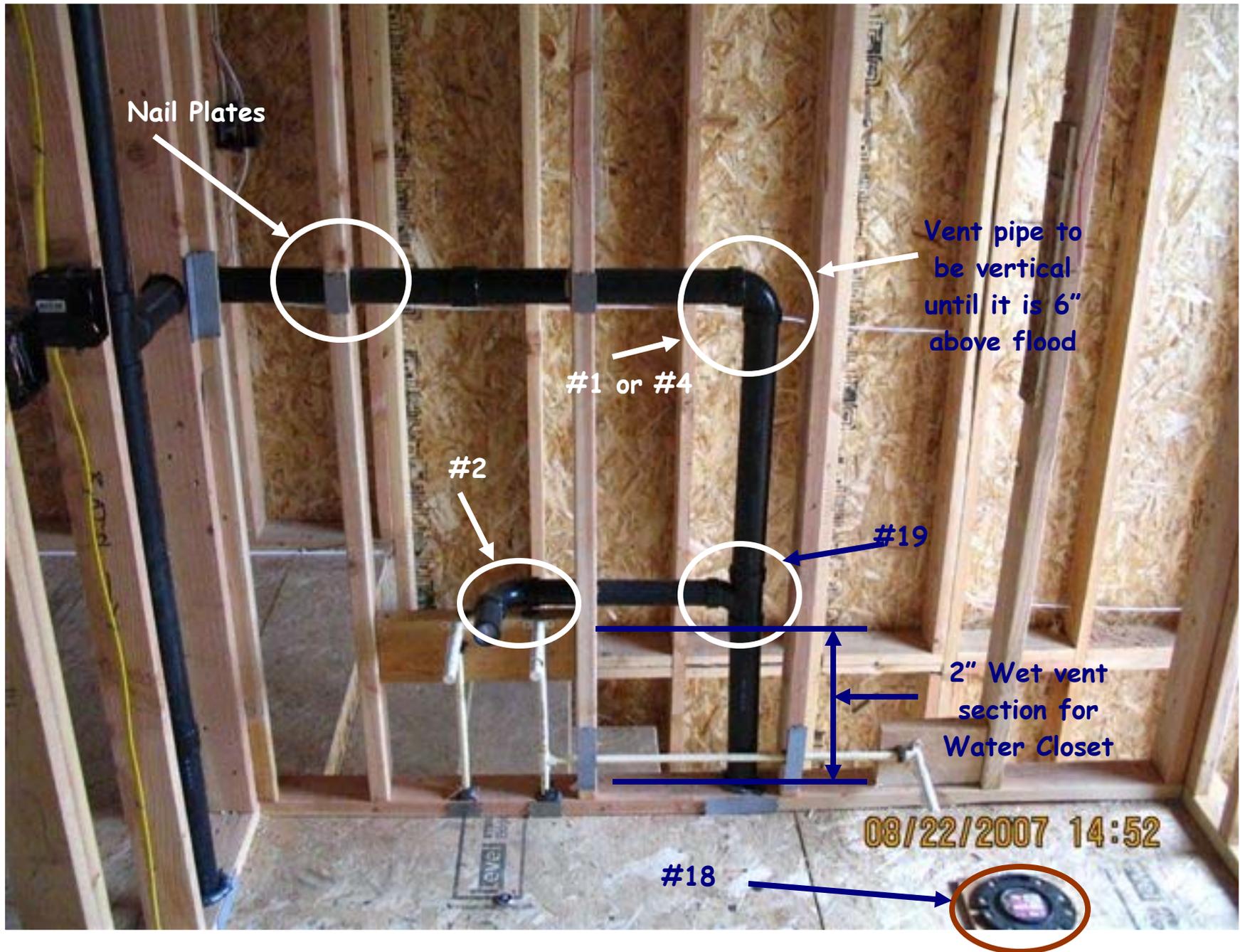
# Clothes washer w/ waste from 2nd floor fixture



# Back to back fixtures



# Lav with wet vent section for water closet



# Bathroom Lav



# Tub / Shower



2" vent required on water closet

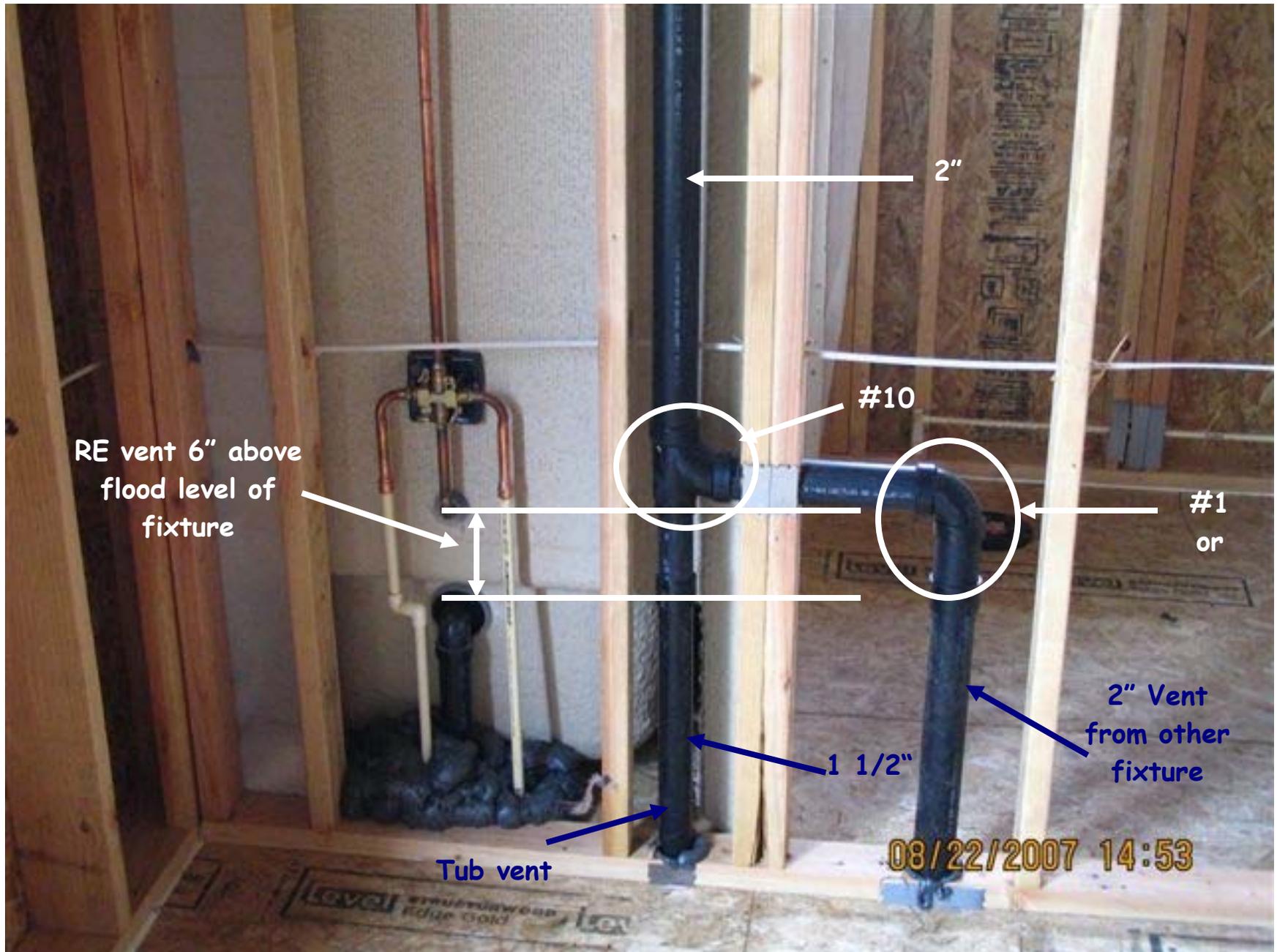
#1

#23

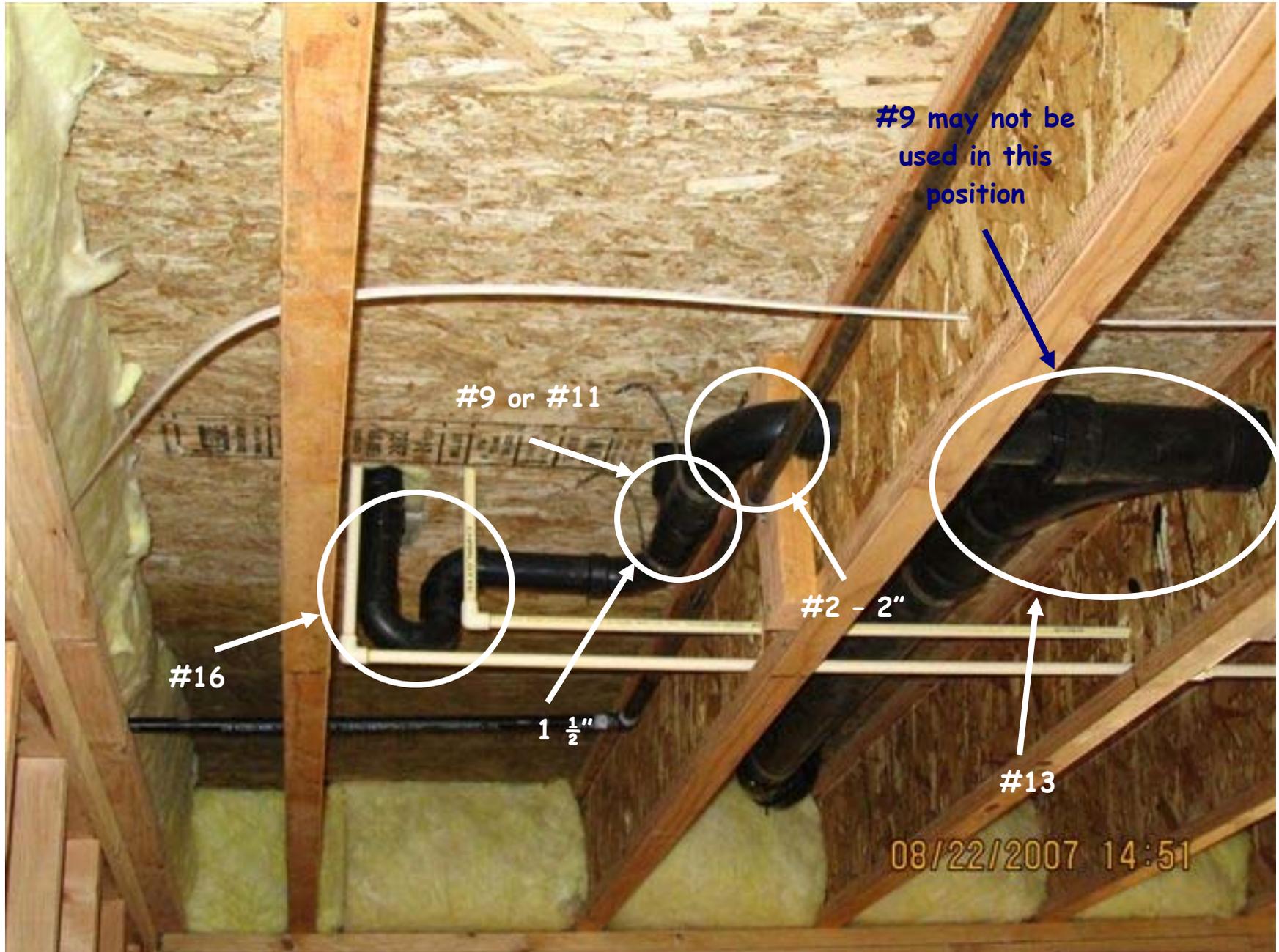
08/23/2007 10:44



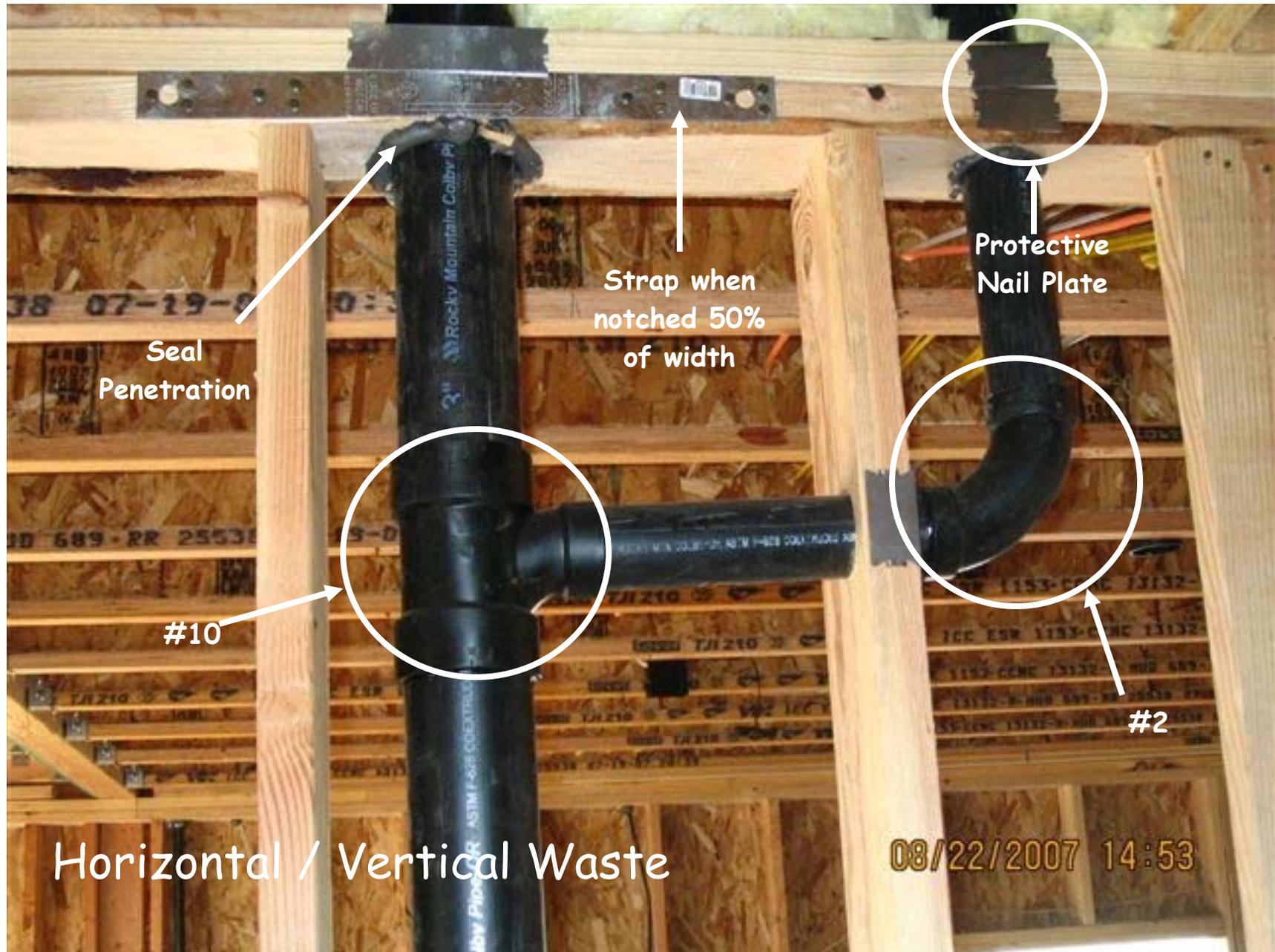
# Tub / Shower Combo



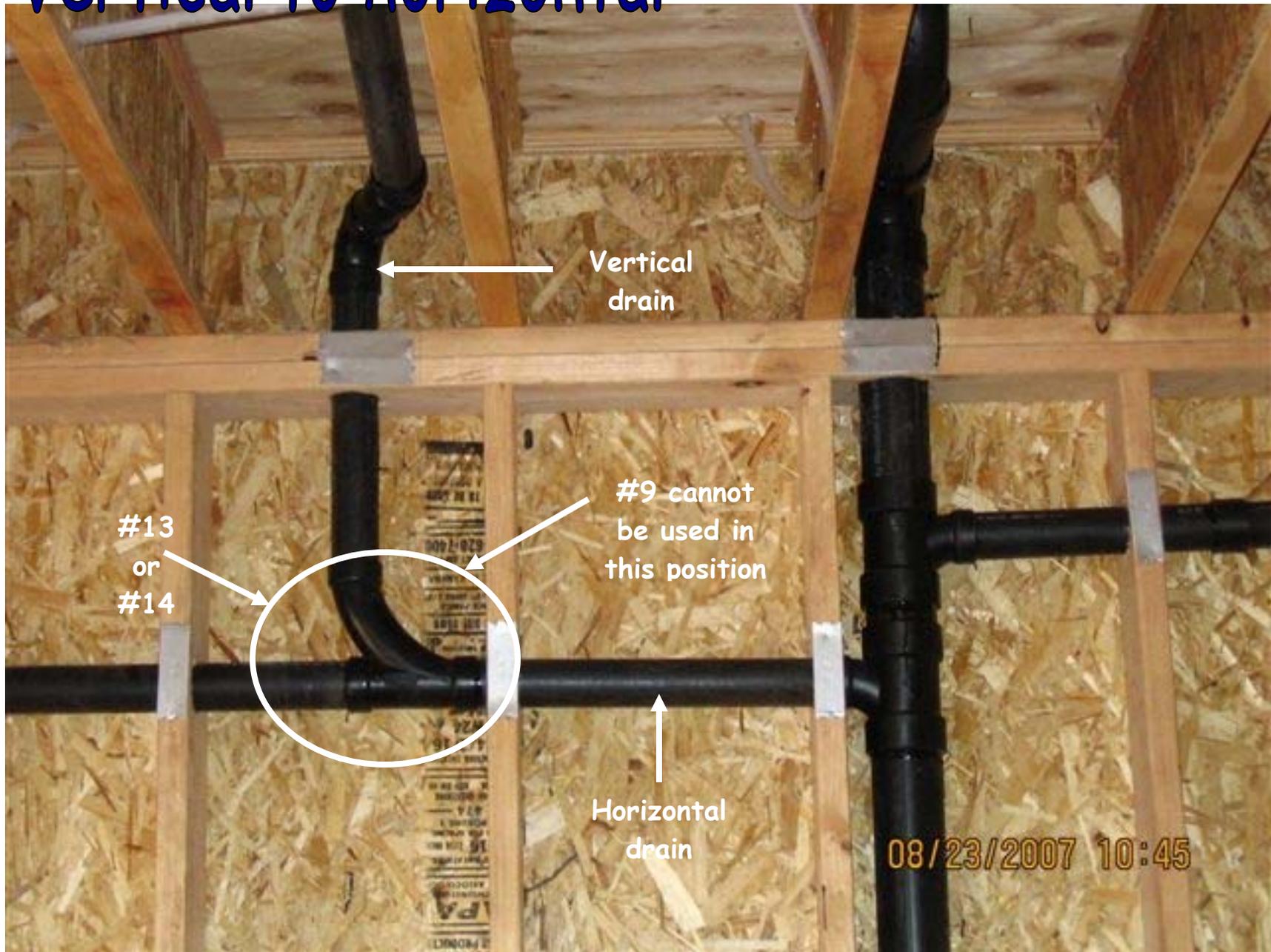
# Tub drain



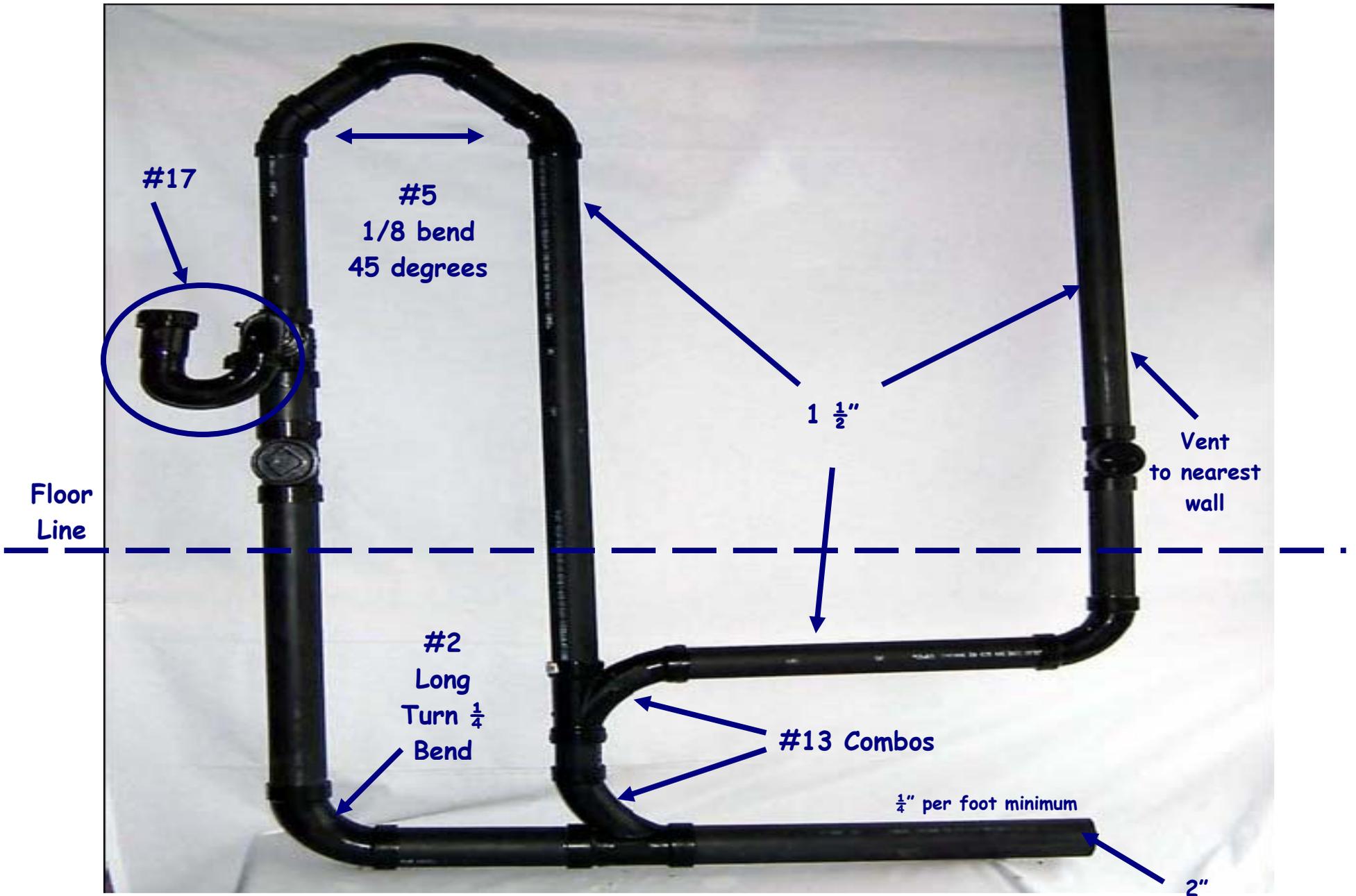
# Horizontal / Vertical Waste



# Vertical to horizontal



# Island Sink



# Kitchen Sink

