

ASSIGNMENT #02

Name = Dilraj Khan

ID # 7724

SECTION = 'A'

Semester # (8th)

SUBJECT = Wastewater Engineering

DATE = 02/July/2020

Teacher = Engr. Sir Mudeem
Allah

Briefly Describe

① Soil pipes & Anti Siphon pipes

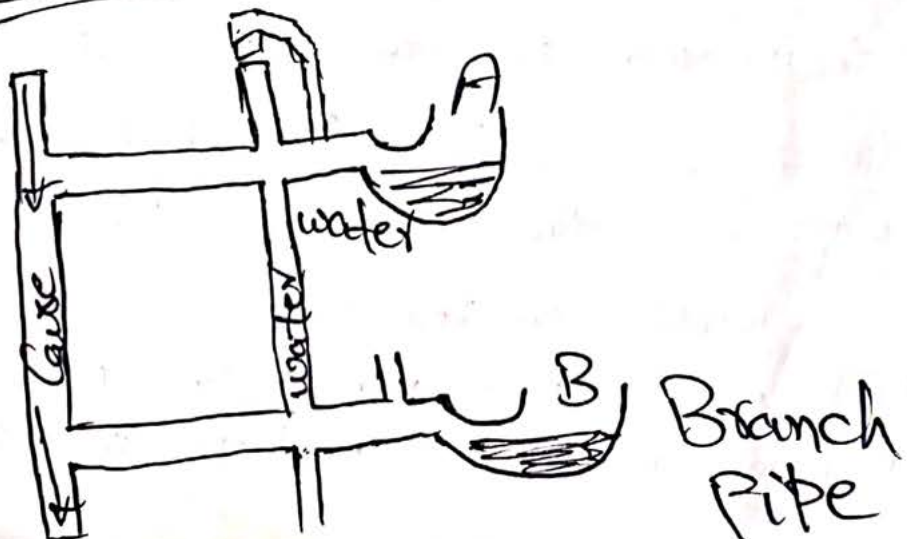
- A soil pipe is for solid water.
- This type of pip will carry water and solids into the sewer.
- Soil pipes are vented high at the top or near to the top of a building.
- Soil pipes stacks allow gases produced by waste to vent safely into the atmosphere.

→ Anti-Siphon pipes

An extra pipe connected to the outlets of toilets seats of all the floors the other end of which is exposed to atmosphere is called anti-siphonage pipe.

- The difference of air pressure causes the water seal in the toilet seat to get sucked out into the pipe. Thus seal is broken and gases can enter into the toilet.
- It is produced to maintain water seal so that foul gases of the sewer line do not find entry into the toilet.
- Water seal of traps in multi-story building or house may sometimes get broken due to siphonic action.

* Anti-SYPHONIC-PIPE - DIAGRAM *



PART # (B) * SANITARY FIXTURES *

Sanitary fixture let is a receptacle for the industrial or and fecal sewage that is installed in homes and public. and industrial building sanitary fixture is attached to the interior system, of the pipes and sewage system. for constitute the main element of a building sanitary engineering equipment. It is installed in different areas of bathtub, washhand, shower, sumps, traps and bidet are installed in bathroom, washroom and shower room.

* TRAPS *

Traps catch water after each discharge from a fixture so as not to allow up unpleasant and abnoxious gases in a sanitary drainage system to escape through the fixture.

#04

All fixture are to be provide with its own trap except for three laundry and kitchen sinks connected to a single trap.

* TYPES OF TRAP *

Depending upon the shape the trap are classified as

- ① Trap
- ② - Trap
- ③ - Trap.

The depth of trap seal depend upon usage of a pipe the trap seal varies from 25 to 25mm deep.