

Diagram illustrating a pipe abandonment method using a mechanical plug and concrete. The diagram shows a cross-section of a pipe system with the following components and dimensions:

- EXISTING MANHOLE TO REMAIN:** The top structure of the manhole.
- EXISTING PIPE TO MANHOLE CONNECTION TO REMAIN:** The section of the pipe leading up to the manhole.
- 2" MINIMUM THICKNESS:** The thickness of the remaining pipe section.
- 20" MINIMUM:** The length of the pipe section to be abandoned.
- MECHANICAL PLUG:** A plug installed in the pipe to be abandoned.
- (REMOVE A MINIMUM OF TWO FEET OF EXISTING PIPE):** The section of pipe to be removed.
- READY MIX CONCRETE 3000 PSI IN 28 DAYS:** The concrete used to fill the abandoned pipe section.
- DISCONNECT PIPE:** The section of pipe to be disconnected.
- 20" MINIMUM:** The length of the pipe section to be disconnected.
- PIPE TO REMAIN:** The section of pipe that remains in place.
- PIPE TO BE ABANDONED:** The section of pipe that is to be abandoned.

SANITARY SEWER PIPE ABANDONMENT AT A MANHOLE

01/01/14

S-15

PAVEMENT IN ACCORDANCE WITH GOVERNING JURISDICTIONAL REQUIREMENTS

REMOVE MANHOLE FRAME AND COVER, RESTORE TO MATCH SURROUNDING AREA AND GRADE

FINISHED GRADE

REMOVE MANHOLE TO A MINIMUM OF TWO FEET BELOW FINISHED GRADE (REMOVE ALL GRADE RINGS)

#57 STONE, LEAN CONCRETE, OR FLOWABLE FILL

18" MINIMUM

FILL MANHOLE SOLID WITH 3,000 PSI CONCRETE

MECHANICAL PLUG

SANITARY SEWER
MANHOLE ABANDONMENT

01/01/14

S-16

WESTERN VIRGINIA WATER AUTHORITY

WILLIAMSON ROAD SANITARY SEWER REPLACEMENT

DETAILS - 5

3 OF 6

No.	Statement / Revision	Appl. By	Date
1	1st ISSUE	DJB/MBH	3-30-18
2	CONSTRUCTION ISSUE	DJB/MBH	01-21-19

Designed By: MBH

Issue Date: 3-30-18

Drawn By: MBH

Project #: 33336

Drawing

C-5

2341 Riverchase Court, Suite 2100
 Bartlett, VA 22020

WESTERN VIRGINIA
 WATER AUTHORITY

COMMONWEALTH OF VIRGINIA
 DOUGLAS B. HIGGINS
 Lic. No. 03484
 07/16

CHA

Licensed Geologist 2014