

APPENDIX D
TWIN MANHOLE PROTOCOL

Twin Manhole Inspection Procedure - General Observations

City of Worcester, Massachusetts

Twin Manholes:

The City of Worcester has a combination of sanitary manholes, storm drain manholes, and “twin manholes”.

A twin manhole is defined as a manhole that is shared by both the sanitary and storm drain systems. The manhole typically has two inverts. In a twin manhole, the majority of the sanitary inverts have been sealed with an aluminum plate and restraint. The plating system was installed to prevent storm water from entering the sanitary system. It is crucial that this system be in place to prevent surcharging of the sanitary system.

Manhole Inspection:

When accessing the City’s sanitary and storm drain systems, the CONTRACTOR or DPW PERSONNEL shall provide general observations regarding status at the time of the access. The City’s “Manhole Inspection Report” form shall be completed by the CONTRACTOR or DPW INSPECTOR. The CONTRACTOR or DPW PERSONNEL shall identify defects, damage, and/or missing manhole components and the type of corrective actions taken or to be taken.

As a minimum, CONTRACTOR’s or DPW PERSONNEL performing work within the City’s sanitary and storm drain systems shall inspect as follows:

- Open manhole. Determine if the manhole is a Twin Manhole.
- If so, complete the “Manhole Inspection Report” form.
- Check the manholes aluminum plate and restraint system.
- Identify if the aluminum plate and restraint system is correctly installed and has all components present (plate and restraint).
- Indicate that the aluminum plate and restraint system was correctly re-installed following work (if not notify city, see below).

Defective or Missing Plating System:

- If the aluminum plate and restraint system was missing or unable to be re-installed correctly, the CONTRACTOR or DPW PERSONNEL will notify the Sewer Operations Division at (508) 799-1480.
- If the system is surcharged, notify DPW contact above.

MANHOLE INSPECTION REPORT



Street Name: _____

Address: _____

Manhole No.: _____

Plan I.D. _____

Inspection performed by: City Inspector
 City Crew
 Contractor

Inspection Date/Time: _____

Inspection Name/Crew: _____

General

Status: Topside Inspection
 Internal Inspection
 Not Inspected
 Not Found
 Buried

Structure Type: Sanitary
 Storm
 Combined
 Twin-Invert
 Catch Basin

Other: _____

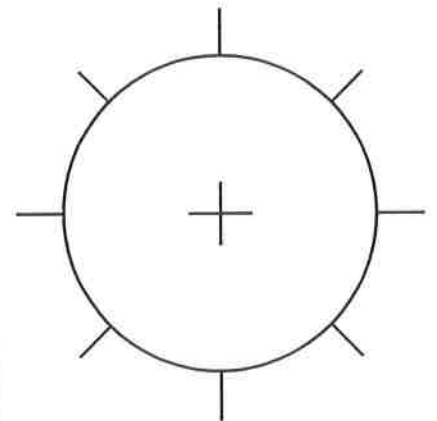
Plate System

Plate: Present
 Missing

Support Restraint: Present
 Missing

Re-installed Plate System: Good - able to re-install
 Fair - able to install plate, but not restraint
 Poor - unable to install plate or restraint

Comments/Description:



Indicate inlet and outlet lines, flow direction, size, and upstream and downstream MH numbers.