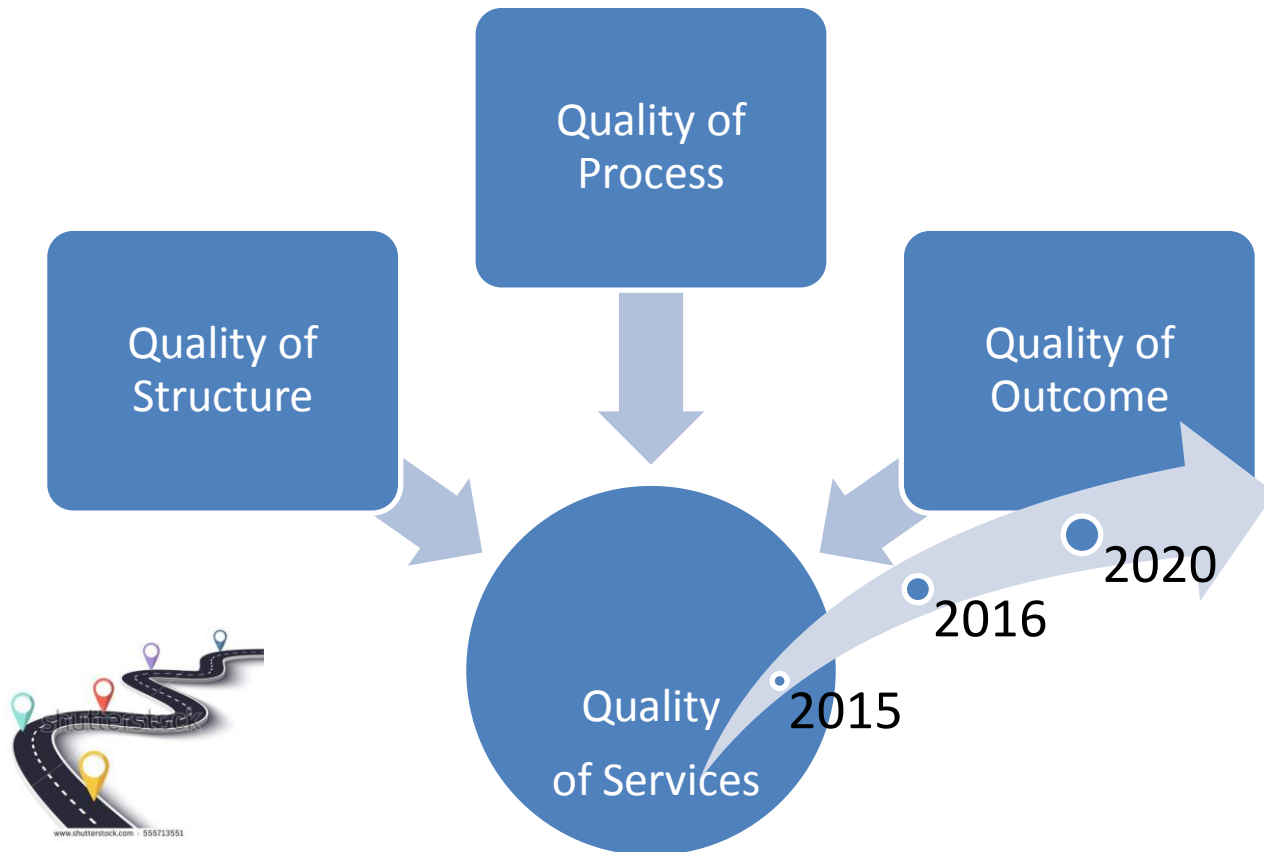


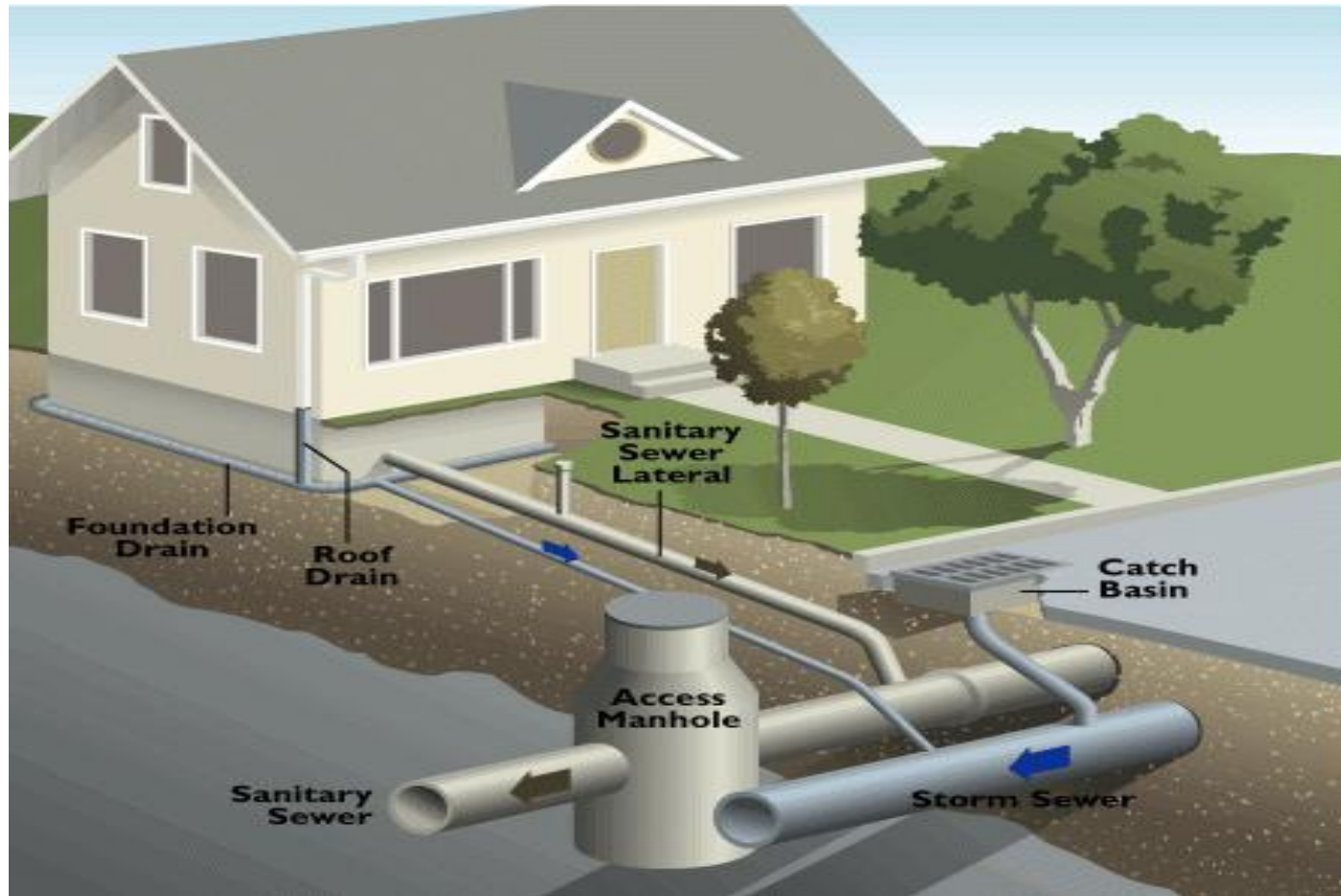
Road Safety and Manholes



Septic System and Manholes



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Road Safety Manhole App

Form Serial No:

Date:

Name of road system or building or facility:

Manhole ID or No:

Name of inspecting company:

Annual Maintenance Contract No (if relevant):

Feedback
Photograph

With GPS turned on

Nature of inspection or assessment:

- [] **Photograph taken and sent to municipal civic body** (for accountability or to get authorization before cleaning or maintenance to prevent accidents and other incidences)
- [] **Condition of manhole cover (check for shape changes, slip resistance, defects, corrosion, damage)**
- [] **Condition of manhole cover (checks for infiltration and exfiltration)**
- [] **Location analysis** (there is a clear visibility, navigability and demarcation with design for power supply or lighting, with design for water supply for cleaning, and provision of adjoining site for disposal of sullage, where some of this is applicable depending upon size of manhole)
- [] **Plan for emergency services** (whom to contact and what is to be done if there is an accident or health hazard)
- [] **Condition of valves (by nature of design and utility)**
- [] **Connection to sewer systems (depending upon utility of manhole)**
- [] **Connection to storm water drains (depending upon utility of manhole)**

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Evaluation of manhole design:

- [] **Check for steps or ladder rungs to allow easy descent into vault space**
- [] **Check for flow inverts**
- [] **Check for flumes** (depending upon utility of manhole)
- [] **Check drop structures** (from higher elevation flows to lower elevation discharge pipes)
- [] **Check Quality of Storm water screening structures**
- [] **Check Quality of Sewage grinders** (depending upon utility of manhole)
- [] **Check Quality of Energy absorbing structures to dissipate undesirable flow-stream turbulence or velocity**
- [] **Check and control of runoffs from roadways or sidewalks** (from entering the manhole)

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Evaluation before cleaning or maintenance of sewer system manholes:

☐ **Check for odors emanating from access point**

☐ **Check for visible sheen on walls of vault**

☐ **Check for pollutant concentration levels** (loading)

☐ **Force sewage flow** (if choking is a problem at this access point)

☐ **Perform vacuuming** (if severe choking is a problem)

Health hazard or risk inspection or assessment of sewer system manholes:

☐ **Nearby collection of insoluble particles**

☐ Adequate usage of disinfectants **prior to surface disposal of municipal sewage (from this access point)**

☐ Controlled usage of disinfectants **in vault**(as it can affect quality of tank and soil ecosystem of sewer system)

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Operations or maintenance:

- [] **Dosing or drainage schedule** (where sewage effluent is routed to a different system)
- [] **Precautions checklist** (before making valve adjustments or making new connections)

Additional nature of inspection or assessment:

- [] Easy to service model
- [] Collection chambers below ground level (as per standards)
- [] Slopes given to pipelines so sewage is conveyed by gravity
- [] Safety from slipping, tripping
- [] Safety from contamination hazards
- [] Safety from moisture hazards to surrounding structures

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Reason for inspection or assessment (Tick as applicable):

☐ Health hazards suspected

☐ Complaints

☐ Emergency call or disaster

☐ Aging

☐ Preventive maintenance

☐ Routine assessment

Complaint No:

Priority Complaint No:

Time taken:

Record of inspection:

Date	Nature of inspection	Details of inspection	Next scheduled date	Done by

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Record of condition:

Date	Condition	Details of condition	Analysis of condition	Plan of action	Done by

Record of repairs or replacements:

Date	Nature of repairs or cleaning	Details of repairs or cleaning	Cost of repairs or cleaning	Reordering Of material and spares	Done by

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- **Record of performance (Tick as applicable):**
- ☐ No complaints ☐ Functioning of vault proper and adept
- ☐ Occasional complaints
- ☐ Recent complaints
- ☐ Complaints since a long time
- ☐ Rising number of complaints
-
- **Current problem or complaint or observation?**
-
- **Whether subsequent actions were taken?**

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Whether Corrective Action was outlined? (Yes/No)

- **Details:**

- **Whether Preventive Action is planned? (Yes/No)**

- **Details:**

- **Whether Grievance Redressal was necessary? (Yes/No)**

- **Details:**

- **What will be done to prevent re-occurrence of problem or issue?**