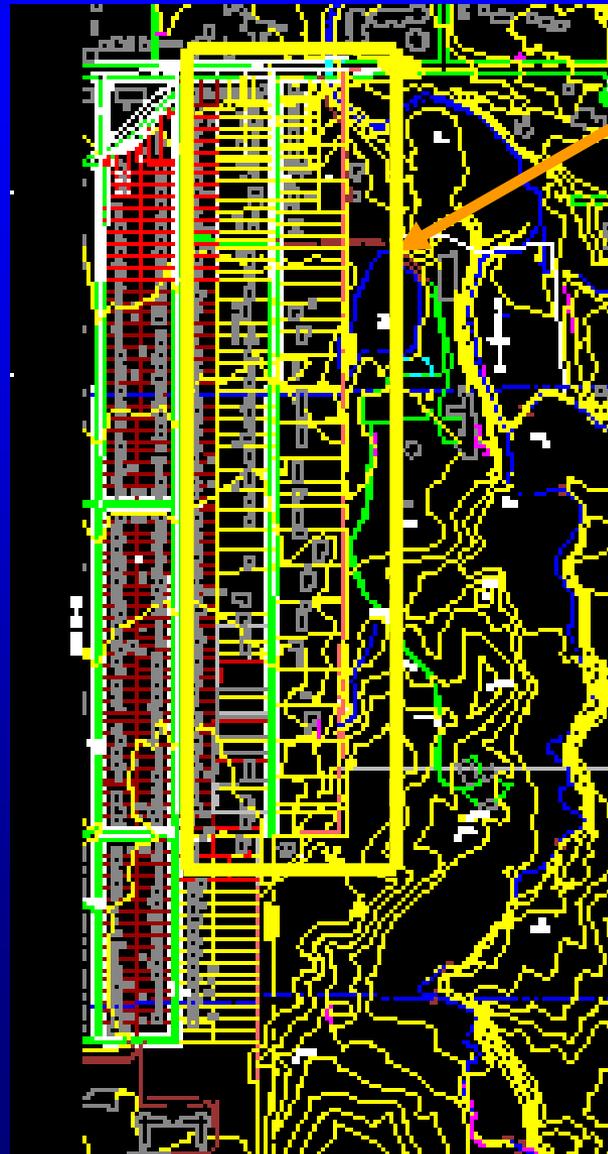


Sheridan Road Infrastructure Improvement

City of South Euclid

May 1, 2013

Map of Project Area



Project Area

Scope of Project

- Removal and Replacement of the Infrastructure in the Public Right-of-Way including:
 - Sanitary Sewers and Service Connections
 - Storm Sewer Manholes and Storm Connections
 - Water Main, Hydrants and Service Connections
 - Curbs and Pavement
 - Drive Aprons

Project Funding

- Contract awarded to DiGioia-Suburban Excavating LLC
- “Best and Lowest” bid: \$ 1,896,575
- City Flood Control Fund: \$1,496,575
- Cleveland Water: \$ 427,000
- General Fund: \$ 0

Project Schedule

- May – Pavement Saw Cutting, Begin Water and Sewer Work at Mayfield, moving south
- June, July - Sewer and Water Mainline and Connections
- August, September, October – Curbs, Drive Aprons, Pavement
- Completion by Thanksgiving, 2013

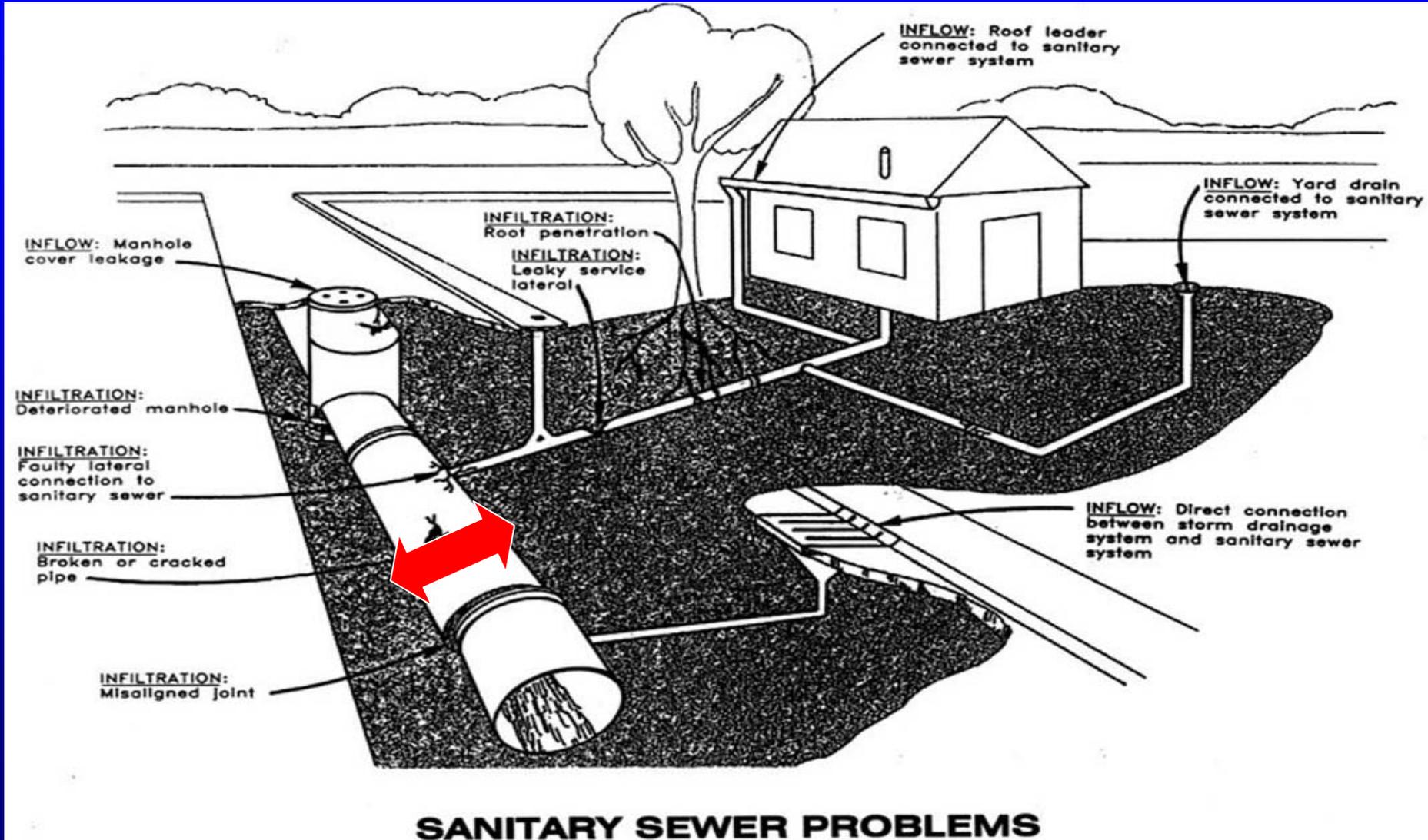
Project Objectives

- Replace aging infrastructure
- Reduce flooding and run-off
- Eliminate constant “band-aid” fixes
- Eliminate sewer infiltration and inflow (I/I)

Causes of Basement Flooding

- Groundwater and storm runoff enters the sanitary sewer
- Sanitary sewer was designed to convey sanitary sewage only and therefore does not have the capacity to accept the additional runoff and groundwater
- Sanitary sewer becomes surcharged causing backups in basements

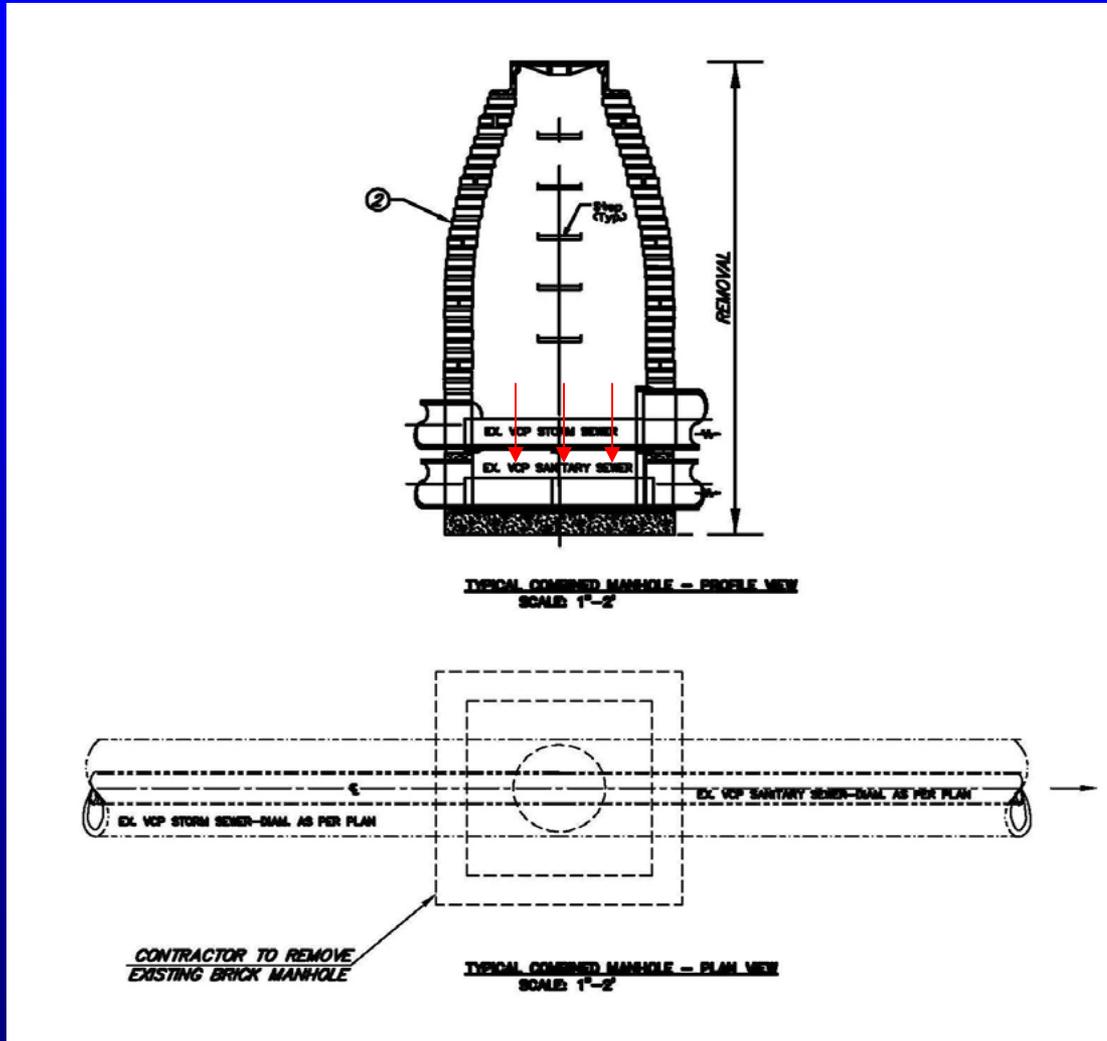
Infiltration and Inflow



Inflow and Infiltration

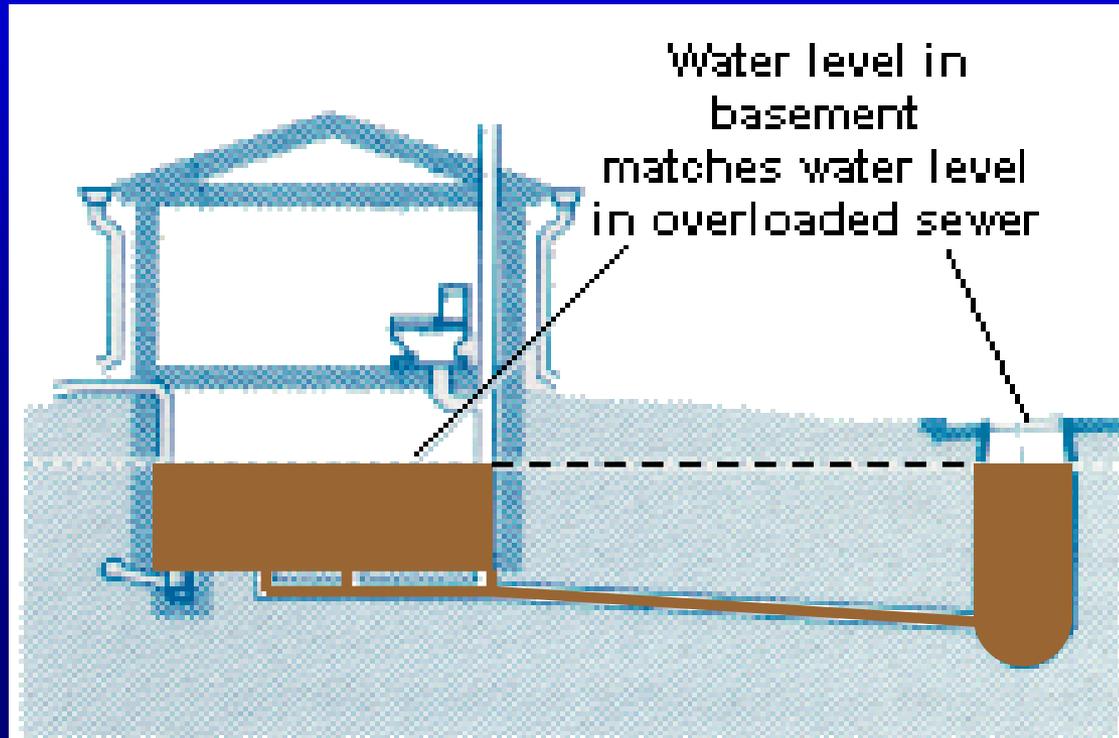
- Misaligned joints allow groundwater to enter the system
- Root intrusion allows groundwater to enter the system
- Illegal storm sewer connections into the sanitary sewer
- Faulty house connections to the sewers
- Broken pipe
- Leaking manholes

Inflow at Combined Manholes



The Effect

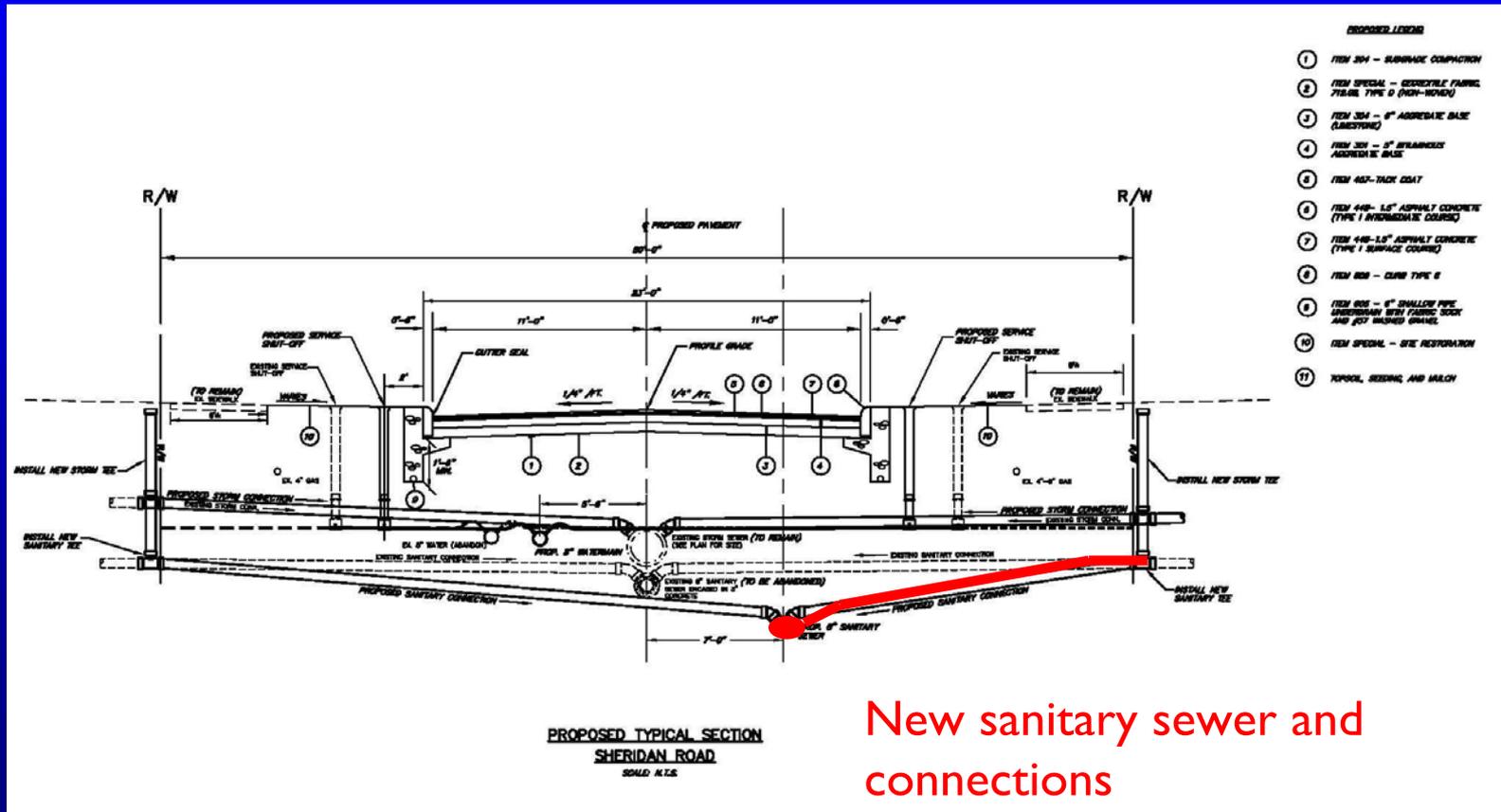
Basement Flooding: When the sanitary sewers are overloaded, the water levels in the manholes and the sewers rise. When the water level rises above the level of the basement floor, the sewers can back up and flood the basement.



The Solution

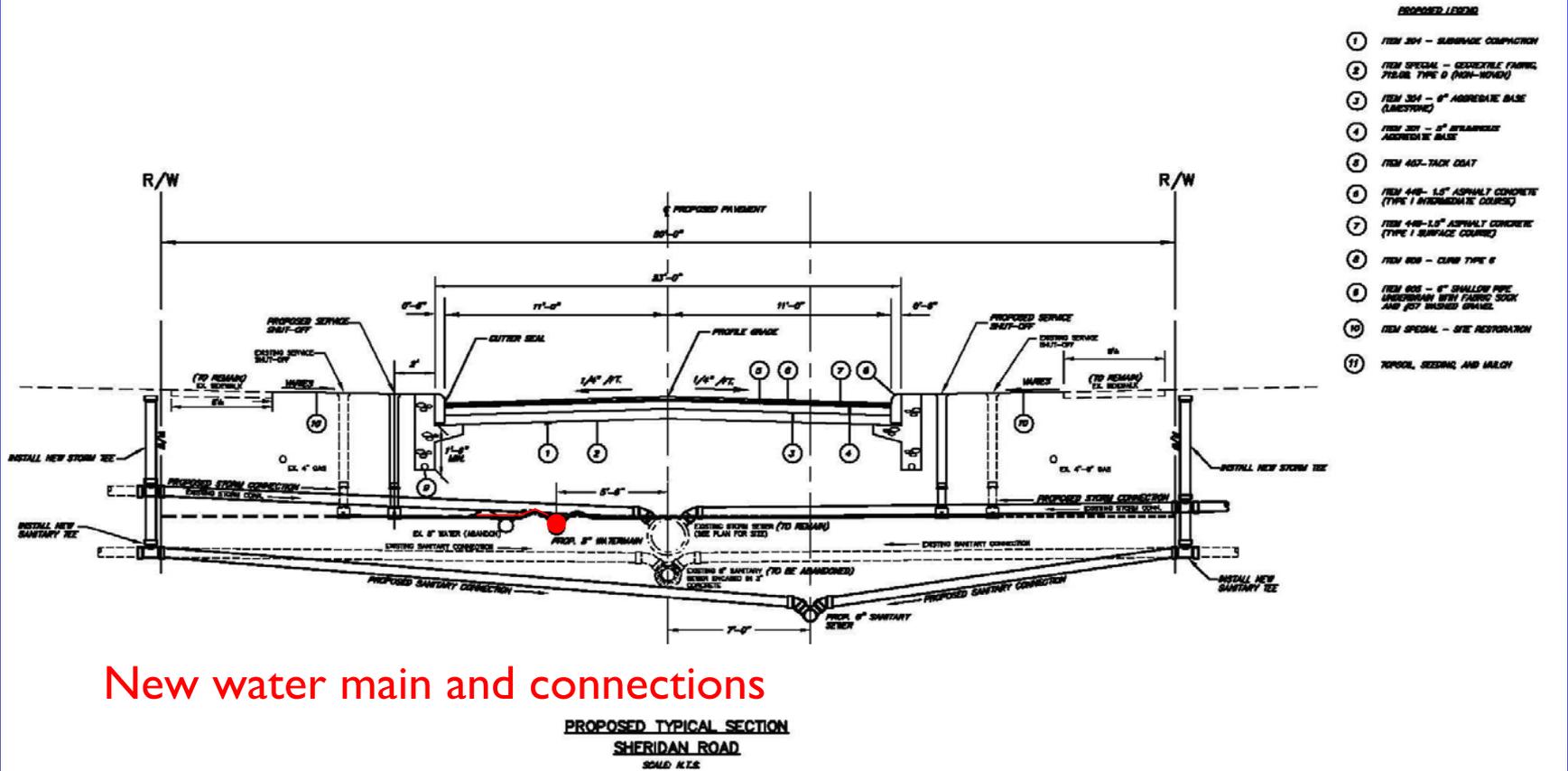
- New sanitary sewer will be constructed in separate trench
- New storm manholes will eliminate old combined manholes
- New house connections will eliminate broken, and illegal connections
- Separate trenches will alleviate inflow and infiltration between the sewers
- Eliminate misaligned joints
- Eliminate cracked and/or broken pipe sections

The Design



New sanitary sewer and connections

The Design



New water main and connections

Mayfield CC Detour



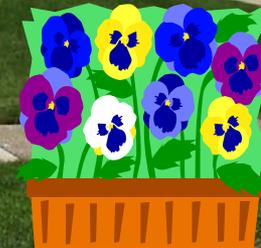
Minimize Inconvenience

Identify Homeowner Owned Facilities

•Yard Lights

•Sprinklers/Irrigation

Landscaping



Sequence of Construction

- Install New Water Mains and Connections
- Install New Sanitary Sewers and Laterals
- Install New Storm Manholes and Laterals
- Remove Pavement on One Side of the Road, Construct New Pavement:
 - Cut Road to Grade, Install Stone
 - Install New Curbs and Aprons
 - Install Asphalt Base
 - Repeat on Other Side of Street
 - Install Final Asphalt Surface over Entire Street.

Other Info

- A Newsletter will be sent to residents to keep them informed of the project's progress;
- Residents with Special Needs will be given assistance for access;
- Streets will be closed except for Local Access ONLY
- Access will be permitted at all times, except:
 - In the immediate vicinity of working construction equipment
 - When the road pavement is being removed and replaced – residents will have to park on the street, or in neighbor's driveways;

Dominion Gas Company Insurance Program – No Longer Necessary

Summary

- The Sheridan Road Infrastructure Improvement Project will replace the publicly owned infrastructure within the affected streets;
- Basement and street flooding problems due to failed and undersized public infrastructure will be eliminated;
- Construction will begin May, 2013 and end in Fall of 2013;
- Inconvenience to residents will be minimized as much as possible for a project of this scope.

DRIVE SAFELY!

- Residents are asked to exercise caution during construction as there will be multiple crews working on the street and the road surface will be rough with loose stones
- Drive slow!
- Repeat, DRIVE SLOW
- If you have a damage claim please file a report with the SE Police as soon as possible

Who To Contact

- Construction Observer: Mr. Frank Malatesta (216) 544-3113
- Chief Inspector: Mr. Dennis Austin (216) 978-6246
- City Engineer: Andrew Blackley, P.E. (216) 731-6255
- City Service Director: Jim Anderson (216) 691-4238