Road Reconfiguration
Traffic Study – Functional Principals

- Place for all people
- 18 hour per day activity
- Draws people through the Square
- Connect neighboring districts
- Connect the region to downtown

- Accommodate daily activities and large events
- Strengthen the Square’s edges
- Compliment Downtown’s new investments
- Multimodal Traffic – Pedestrian Transit Vehicular

Phase 1
Superior Transit Only

[Map with bus volume and boarding counts]
Scenario D: North and South Square Expansion

- Maintains Superior lanes for transit-only and bicycles-only all day
- Mitigates traffic impacts around south side of Public Square
- Maintains pedestrian accessibility across the center of the Square
Phase 2 Traffic Analysis

1. Chester Ave. / Vincent Ave. at E. 9th St.
2. Euclid Ave. at E. 9th St.
3. Euclid Ave. at E. Roadway
4. Lakeside Ave. at W. 6th St.
5. Lakeside Ave. at W. 3rd St.
6. Lakeside Ave. at Ontario St.
7. Frankfort Ave. at West Roadway
8. Prospect Ave. at E. 9th St.
9. Prospect Ave. at Ontario St.
10. Rockwell Ave. Rockwell Ave. at East Roadway
11. at Ontario St.
12. St. Clair Ave. at W. 6th St.
13. St. Clair Ave. at W. 3rd St.
14. St. Clair Ave. at Ontario St.
15. St. Clair Ave. at E. 6th St.
16. St. Clair Ave. at E. 9th St.
17. Superior Ave. at W. 9th St. / W. Huron Rd.
18. Superior Ave. at W. 6th St. / W. Prospect Ave.
19. Superior Ave. at W. 3rd St.
20. Superior Ave. at W. Roadway
21. Superior Ave. at Ontario St.
22. Superior Ave. at E. Roadway
23. Superior Ave. at E. 6th St.
24. South Roadway midblock crossing in front of Tower City
25. South Roadway at Ontario St.
26. Lakeside and E. 9th St.
27. St. Clair and W. 9th St.
28. Carnegie and E. 14th St.
29. Superior and E. 9th St.
30. North Roadway/Frankfort and Ontario St.
32. Huron St and Ontario St.
33. Prospect and E. 14th St.
Lane Configuration

- Final Design Scheme
Traffic Engineering

- MOT Design
- Suggested Detour Routes
Utility Infrastructure

- Public Utility Design
- Private Utility Design

30” water main break
March 6, 2008
Utility Infrastructure

- 23 Utility Companies

City of Cleveland - IT
City of Cleveland - Division of Water
City of Cleveland - Police Traffic
City of Cleveland - Water Pollution Control
North East Ohio Regional Sewer District
GCRTA – Fiber Optic
Cleveland Public Power (CPP)
Verizon / MCI
Cleveland Thermal
AT&T – Long Distance & U-Verse
Windstream
Dominion East Ohio Gas
First Energy - CEI
Time Warner
Fibertech Networks
Level 3 Communications
XO Communications
Century Link
Zayo
Crown Castle
G4S
Forest City
Utility Infrastructure – Data (AT&T and Local Carriers)
Utility Infrastructure – Steam, Gas, Electric
Green Infrastructure

- NEORSD Storm Water Grant
- Rain Water Harvesting/Infiltration System
- Tree Infiltration
- Pervious Pavements
Rainwater Harvesting & Reuse

Tree Frame Infiltration
Rainwater Harvesting
Tree Frame Infiltration System

12" Emergency Overflow to Adjacent CB

CLEANOUT ON RUN PARALLEL TO CURB (SEE PLAN VIEW)

NOTE** MAINTAIN DOMINION'S REQUIRED HORIZONTAL AND VERTICAL SEPARATION BETWEEN UNDERDRAIN PIPE AND GAS MAINS

CLEANOUT ON RUN PARALLEL TO CURB (SEE PLAN VIEW)

SUBGRADE

STRUCTURAL SOIL/TREE PIT

6" SOLID WALL PVC OUTLET PIPE

6" PERFORATED PVC PIPE (UNDERDRAIN)

12" #57 AGGREGATE DRAINAGE BASE

6" PERFORATED PVC PIPE (FILTER DRAIN)

4" AGGREGATE FOR STRUCTURAL PLANTING

SOIL MIX

SEE SPEC 32 91 00

FILTER INLET DETAIL

(VIEW PERPENDICULAR TO ROADWAY)

FILTER INLET DETAIL

(VIEW PERPENDICULAR TO ROADWAY)

NOT TO SCALE

ALL UTILITY TRENCHES CROSSING THE STRUCTURAL SOIL/AGGREGATE MEDIA SHALL BE INSTALLED PER THE UTILITY TRENCH DETAILS AS SHOWN IN THE PLANS. STOP THE STRUCTURAL SOIL/AGGREGATE MEDIA BEFORE AND AFTER THE TRENCH.

FILTER INLET DETAIL

(VIEW PERPENDICULAR TO ROADWAY)

NOT TO SCALE