





Geddes Avenue: A Practical Example of Complete Streets




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Project Location



Geddes Ave. Reconstruction

Project Location



Geddes Ave. Reconstruction

Complete Streets

- ▶ What is it, really?
- ▶ Flexibility in design guidelines
- ▶ Guidance documents & master plans
- ▶ ROW limitations
- ▶ How do you measure this?

Introduction & History

- ▶ Public Engagement Plan
- ▶ City / Township Annexation & Assessments
- ▶ Scope of Work:
 - Sanitary Sewer Improvements
 - Road Reconstruction
 - Bike & Ped Improvements
 - Speed Control & Safety
 - Road Stability Concerns

Public Engagement

- ▶ Public Engagement Toolkit
- ▶ Previous attempts for improvements
- ▶ Meetings held with:
 - City Departments
 - Public at-large
 - Each Neighborhood Group
 - Open-House
 - Individual Homeowners

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City of Ann Arbor

TYPICAL ROAD CROSS-SECTION

GEDDES AVENUE RECONSTRUCTION
CITY OF ANN ARBOR, MICHIGAN

COMPLETE STREETS CONCEPT

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Design Challenges

Drainage Issues

Changes

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Design Elements

Infiltration System

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Design Elements

Storm Sewers
Infiltration Bed & Storm Treatment

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Design Elements

Storm Sewers
Infiltration Bed & Storm Treatment

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Design Elements

Sanitary Sewer Extensions (deep sewer)

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Design Elements



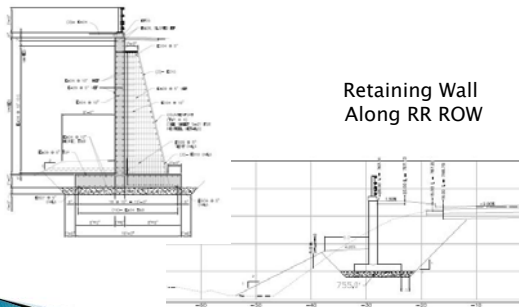
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Design Elements



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Design Elements



Retaining Wall Along RR ROW

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Design Elements



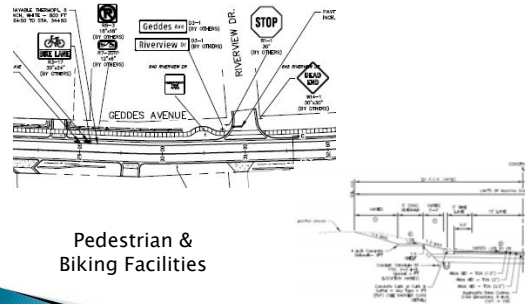
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Design Elements



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Design Elements - Road



Pedestrian & Biking Facilities

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Design Elements – Road

Speed Control

- Road Design & Terrain
- Speed Control – City Toolbox Options
- Considerations
 - Lane width
 - Speed bumps
 - Roundabouts
 - Chicanes

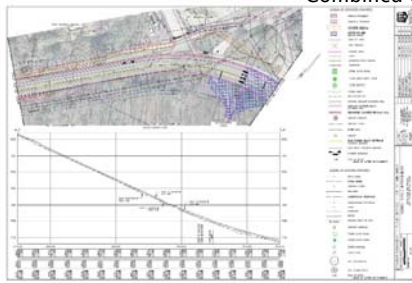
Design Elements



- Implemented
 - Reduced to 10' lanes
 - Bike lane
 - Sidewalk
 - Horizontal Curvature

Design Elements

- Bike Path Crossing
 - Improved sight distances
 - RFB
 - Combined crossing



Complete Streets

- Balanced impact to ROW
- Municipal Infrastructure
- Roadway Design
- Speed Control & Sight Distance
- Signal Interconnect Conduit
- Multi Modal Use
 - Bike Lane
 - RFB Ped Crossing
 - Sidewalk

Under Construction



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Project Completion



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Project Completion



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Is he done talking yet?

- Lessons learned
 - Complete infrastructure improvements
 - Protection of work zone
 - Railroad coordination
 - Utility Coordination
- Questions?