TERRE HAUTE
A LEVEL ABOVE

City of Terre Haute

Southeast Area Drainage Improvements

Public Information Meeting

October 17th, 2007

HANNUM, WAGLE & CLINE
engineering

Project Team

Owner - City of Terre Haute

Pat Goodwin, P.E. – City Engineer

Mark Maurer – City Staff Engineer

Consultant - Hannum, Wagle and Cline

Eric Smith, P.E. – Overall Project Manager

Allen Jacobsen, P.E. – Hydrology/Hydraulics Project Manager

Lon Gardner – Redevelopment Project Manager

Jon Keim, E.I. – Hydrology/Hydraulics Project Engineer

TERRE HAUTE
A LEVEL ABOVE

HANNUM, WAGLE & CLINE
engineering

Project Area

Northern Boundary – Poplar St.

Eastern Boundary – Thompson Ditch

Southern Boundary – Wallace Ave.

Western Boundary – 25th St.

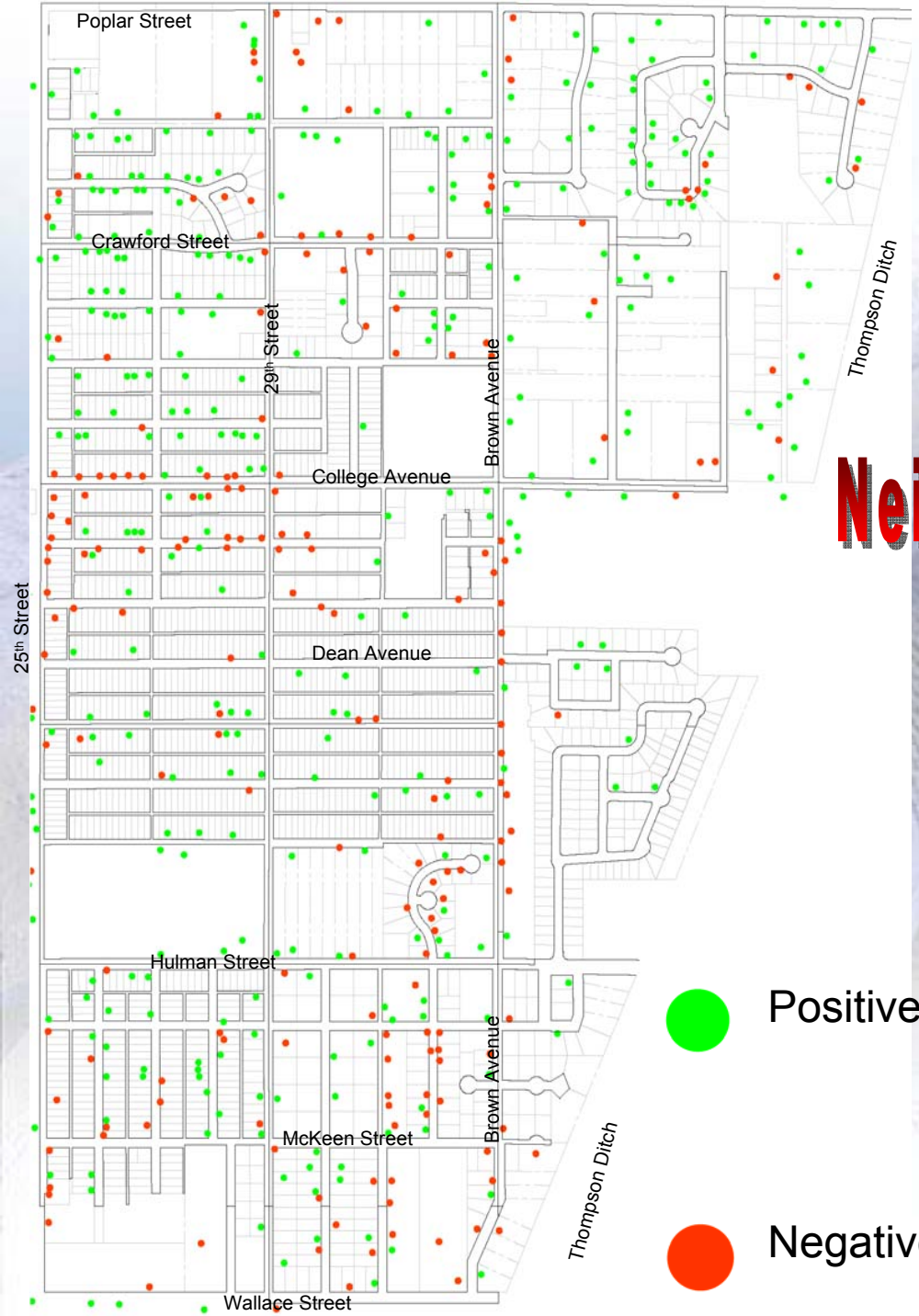
TERRE HAUTE
A LEVEL ABOVE

HANNUM, WAGLE & CLINE
engineering

Existing Drainage Structures

TERRE HAUTE
A LEVEL ABOVE

HANNUM, WAGLE & CLINE
engineering



Neighborhood Survey Responses

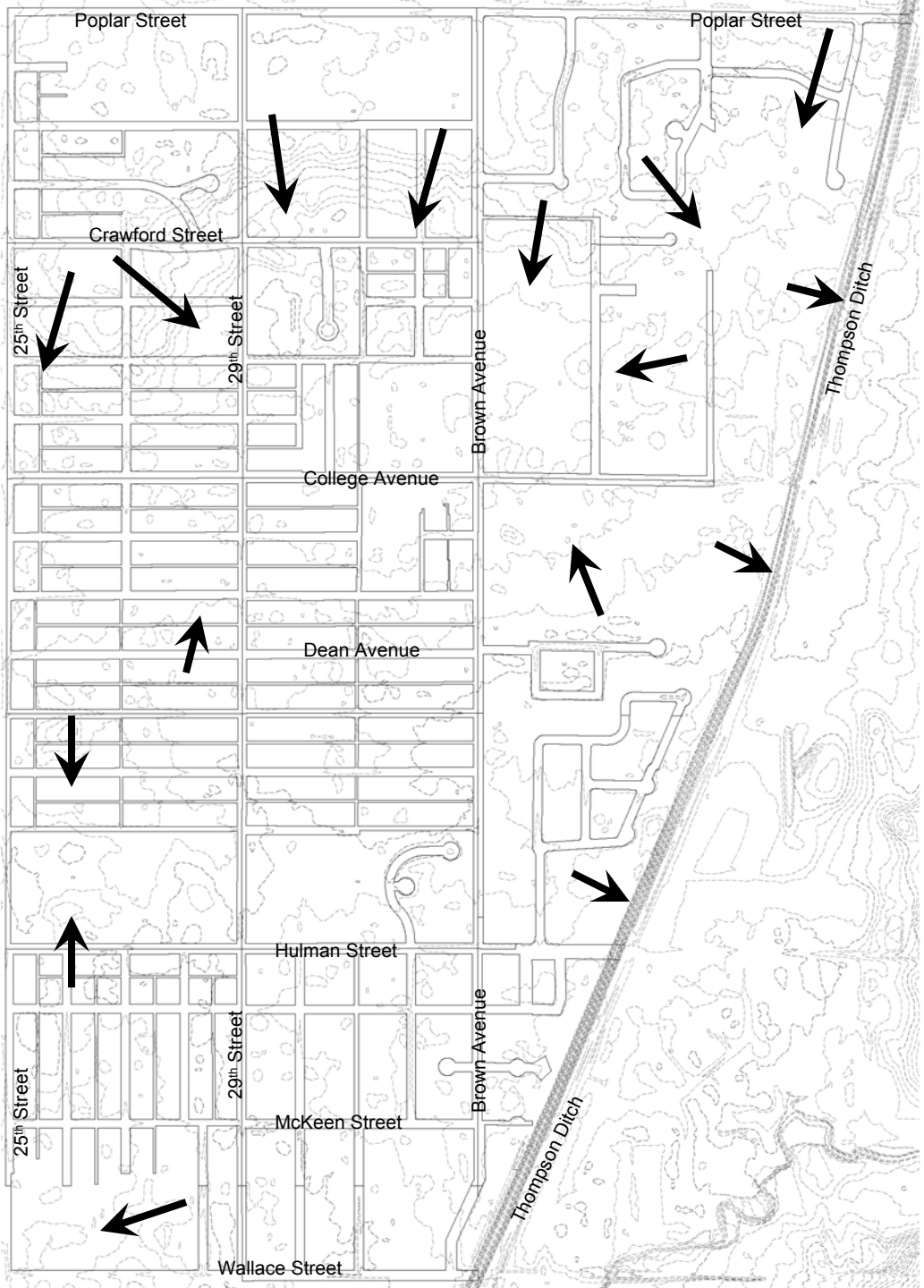
- 1687 Surveys Mailed to Residents
- 577 Surveys (34%) Returned to HWC
- 59% Indicated Drainage Problems

Positive Response

Negative Response

TERRE HAUTE A LEVEL ABOVE

HANNUM, WAGLE & CLINE engineering



Area Drainage Trends

TERRE HAUTE
A LEVEL ABOVE

HANNUM, WAGLE & CLINE
engineering

Engineering Analysis Summary

Objectives

- Address drainage problems identified in surveys
- Improve deteriorated transportation infrastructure
- Remove stormwater flows from Combined Sewer System

Process

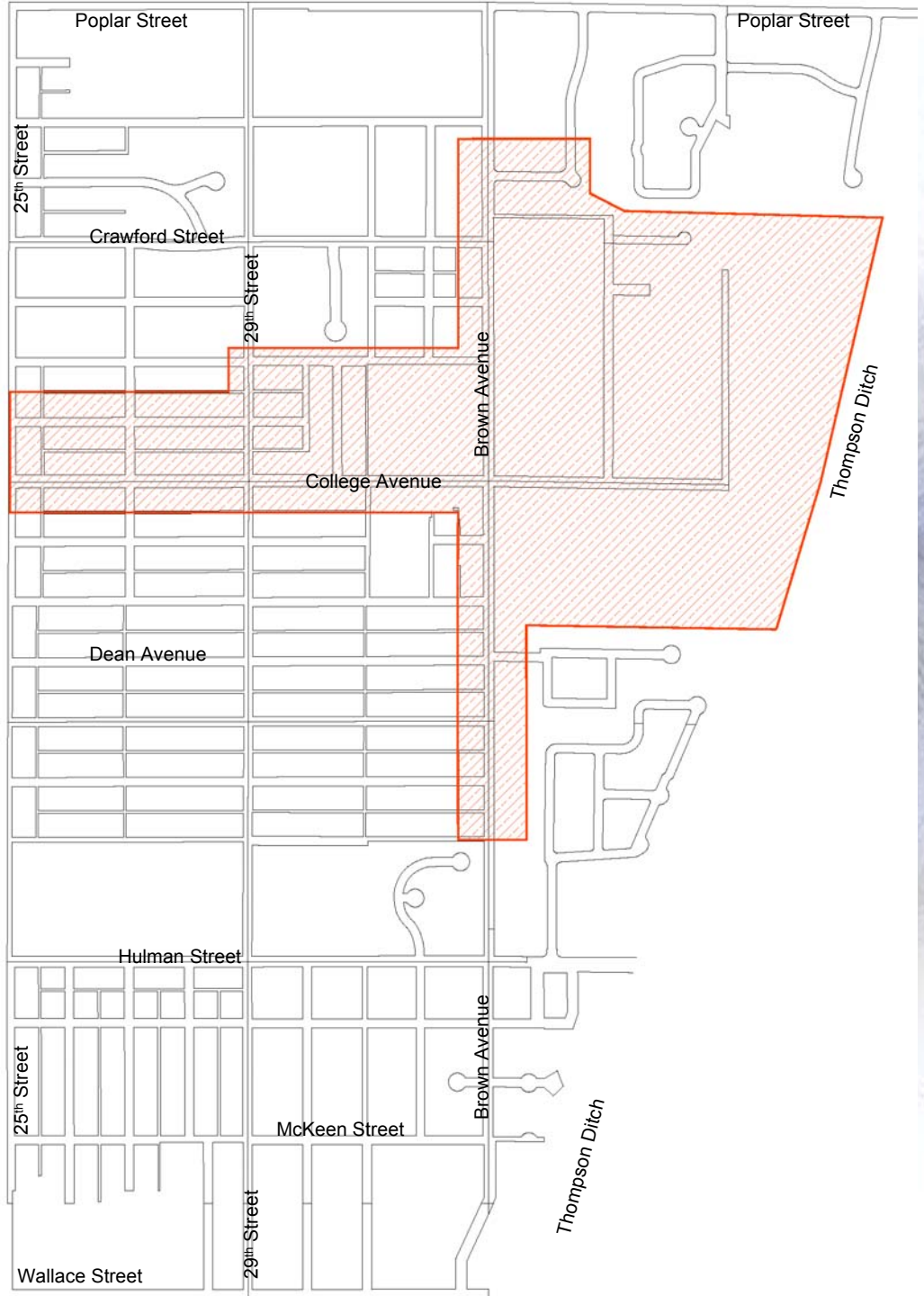
- Develop computer model of current and proposed system runoff
- Determine stormwater runoff outlets
- Determine size of stormwater conveyance systems

Conclusions & Recommendations

- Central portions of study area require pumping – 29th & Park natural low spot – suitable for pump station
- Improve deteriorated transportation infrastructure
- Nearly all flow could be diverted from combined system
- Most noted problem areas could be resolved
- New outlets to Thompson Ditch at Poplar St., College Ave. and McKeen St.
- Extensions to recently constructed Hulman St. storm sewer
- Phased construction for funding and constructability considerations

TERRE HAUTE A LEVEL ABOVE

HANNUM, WAGLE & CLINE engineering

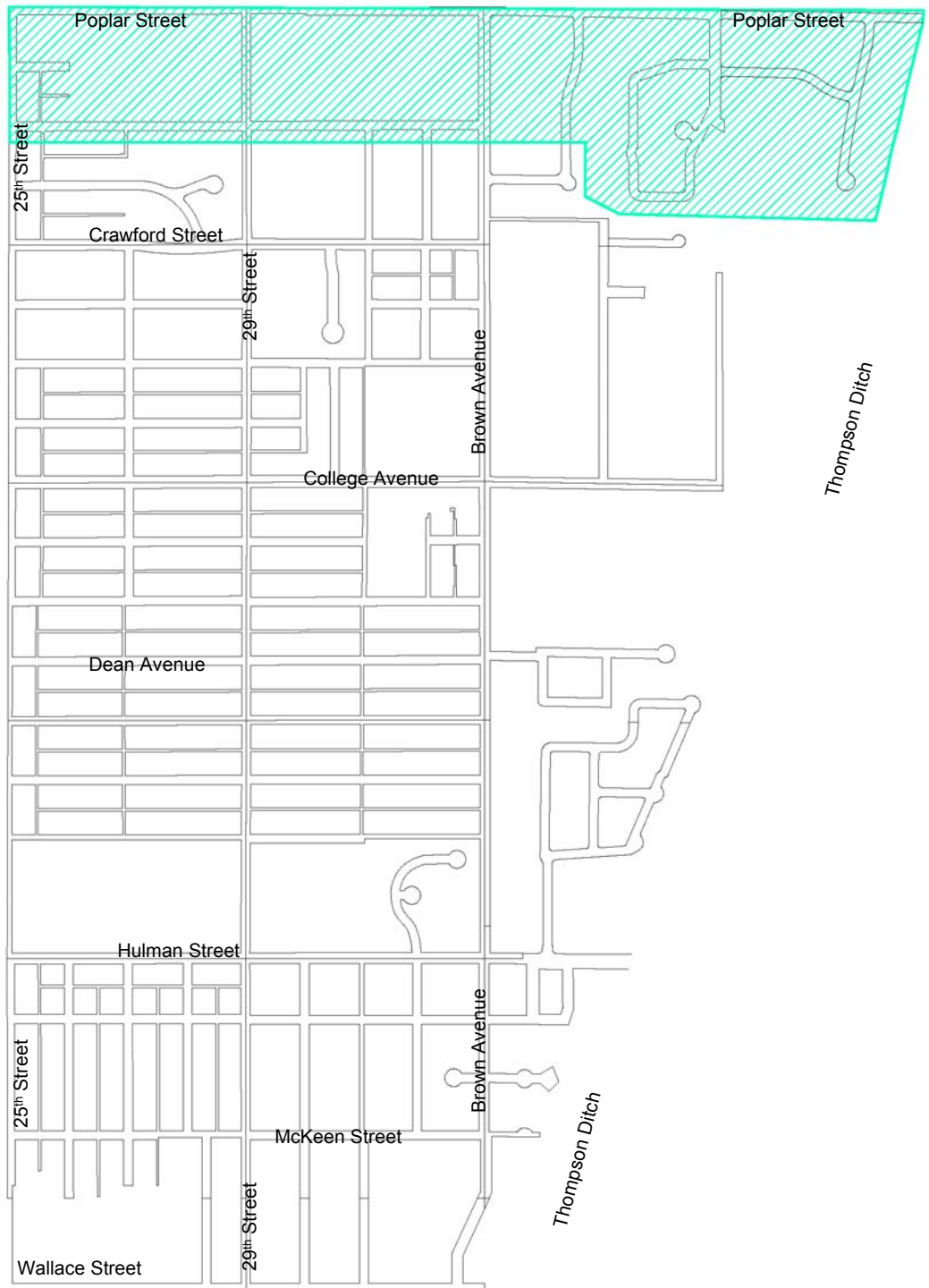


Proposed Phase 1 Project

TERRE HAUTE
A LEVEL ABOVE

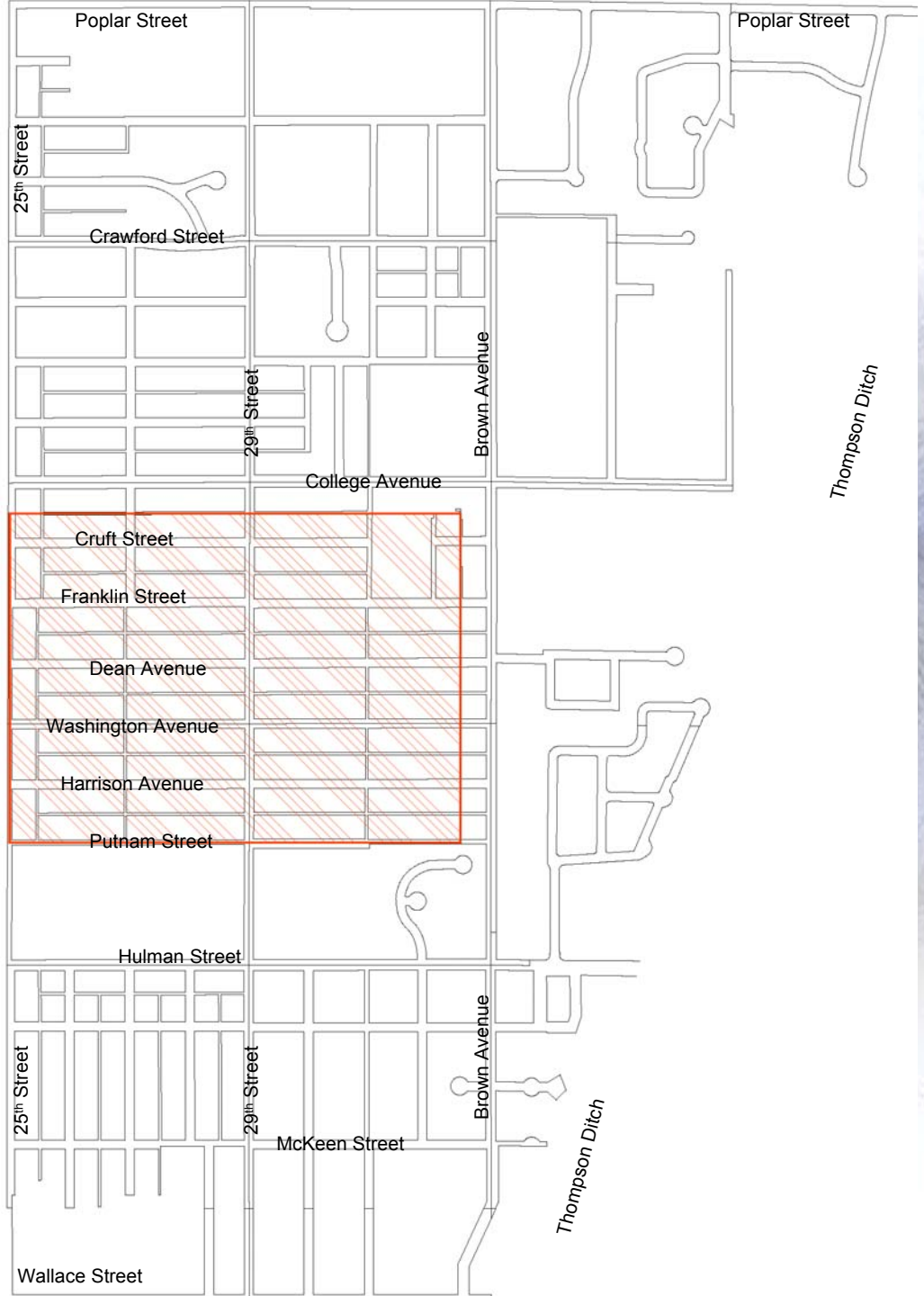
HANNUM, WAGLE & CLINE
engineering

Proposed Phase 2 Project



TERRE HAUTE
A LEVEL ABOVE

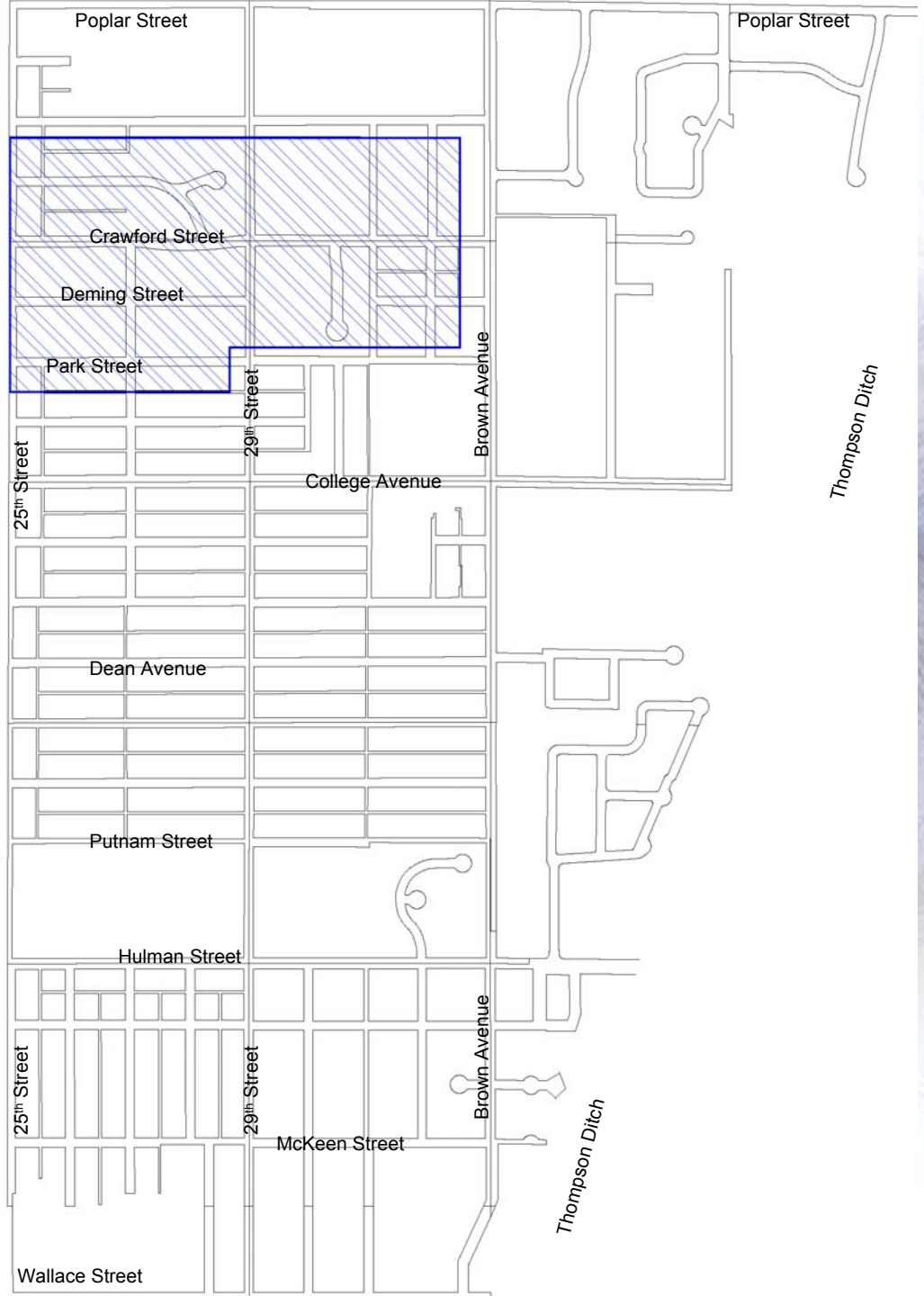
HANNUM, WAGLE & CLINE
engineering



Proposed Phase 3 Project

TERRE HAUTE
A LEVEL ABOVE

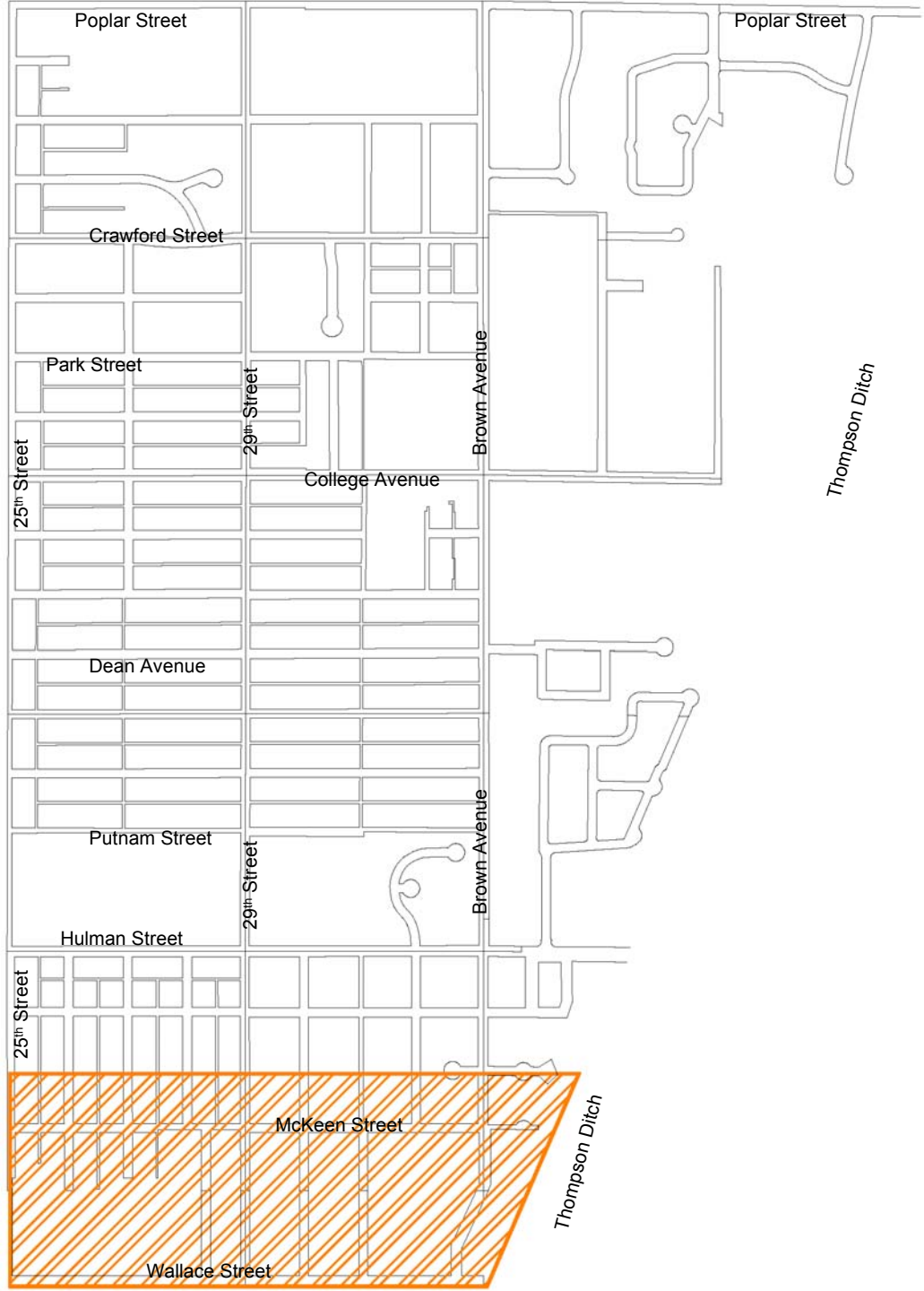
HANNUM, WAGLE & CLINE
engineering



Proposed Phase 4 Project

TERRE HAUTE
A LEVEL ABOVE

HANNUM, WAGLE & CLINE
engineering



Proposed Phase 5 Project

TERRE HAUTE
A LEVEL ABOVE

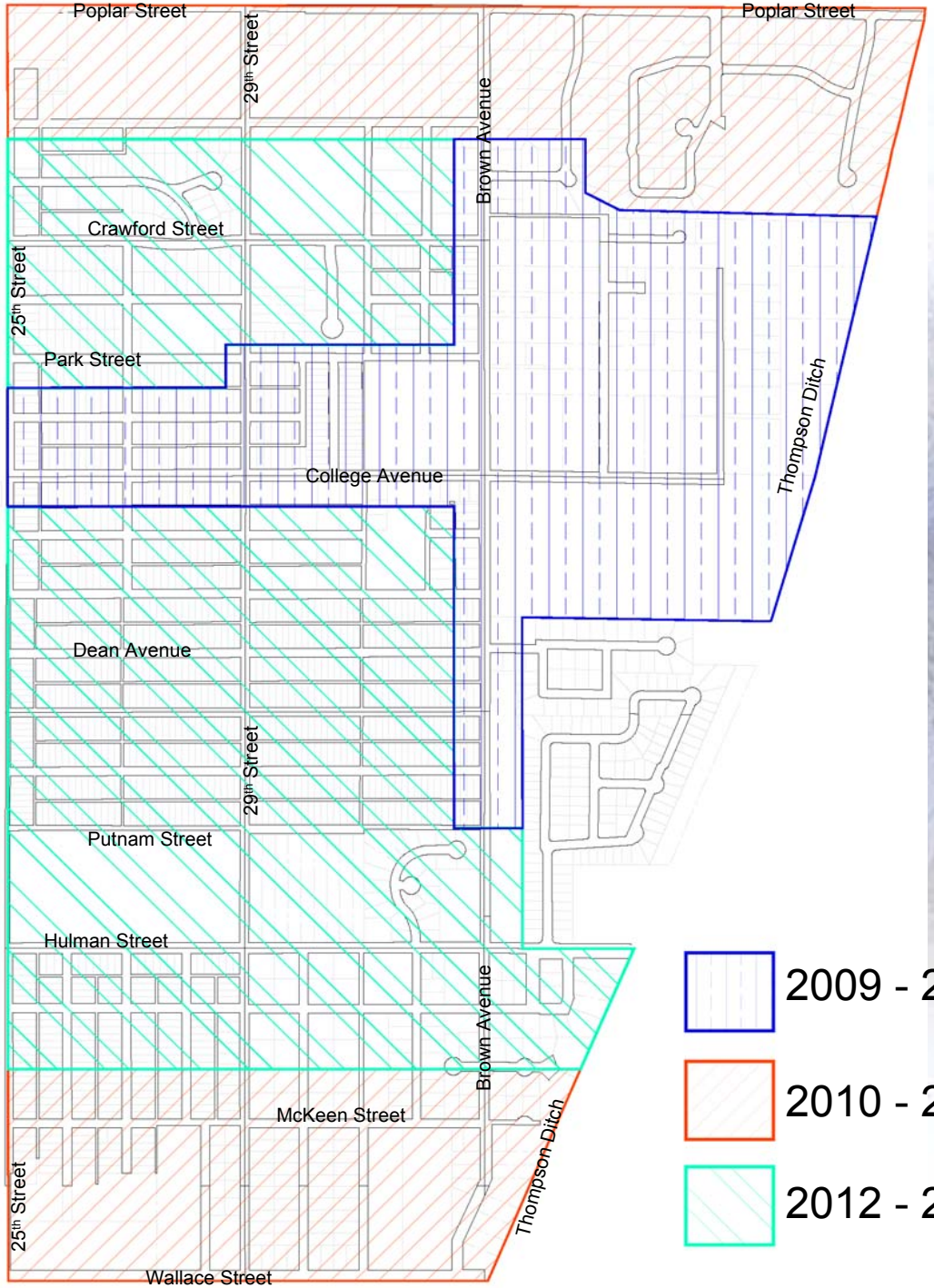
HANNUM, WAGLE & CLINE
engineering

Proposed Phase 6 Project

TERRE HAUTE
A LEVEL ABOVE

HANNUM, WAGLE & CLINE
engineering

Potential Project Timing



2009 - 2010

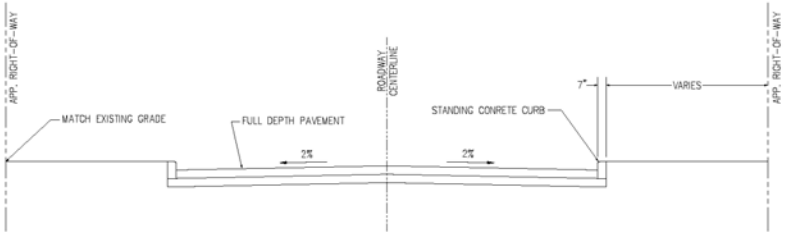
2010 - 2011

2012 - 2013

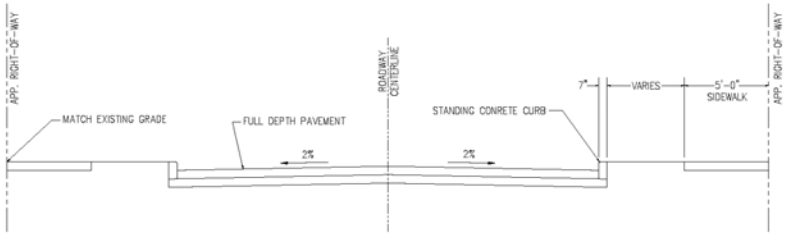
TERRE HAUTE A LEVEL ABOVE

HANNUM, WAGLE & CLINE engineering

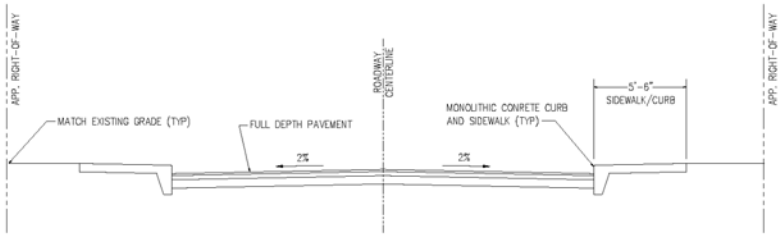
Potential Street Cross-Sections



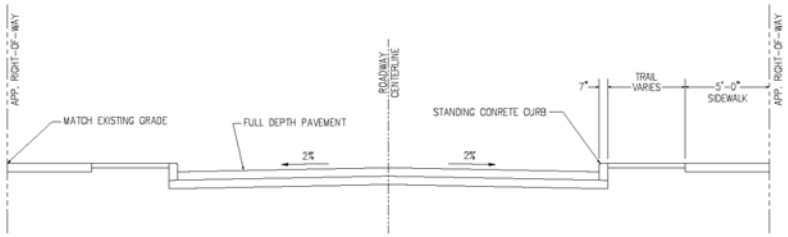
CURB & NO SIDEWALK



CURB & SIDEWALK W/ TREE ROW



CURB & SIDEWALK W/O TREE ROW



CURB & SIDEWALK W/ TRAIL

TERRE HAUTE
A LEVEL ABOVE

HANNUM, WAGLE & CLINE
engineering

QUESTIONS?

TERRE HAUTE
A LEVEL ABOVE

HANNUM, WAGLE & CLINE
engineering

Proposed College Ave. Storm Sewer Outlet

TERRE HAUTE
A LEVEL ABOVE

HANNUM, WAGLE & CLINE
engineering

Proposed Poplar St. Storm Sewer System

TERRE HAUTE A LEVEL ABOVE

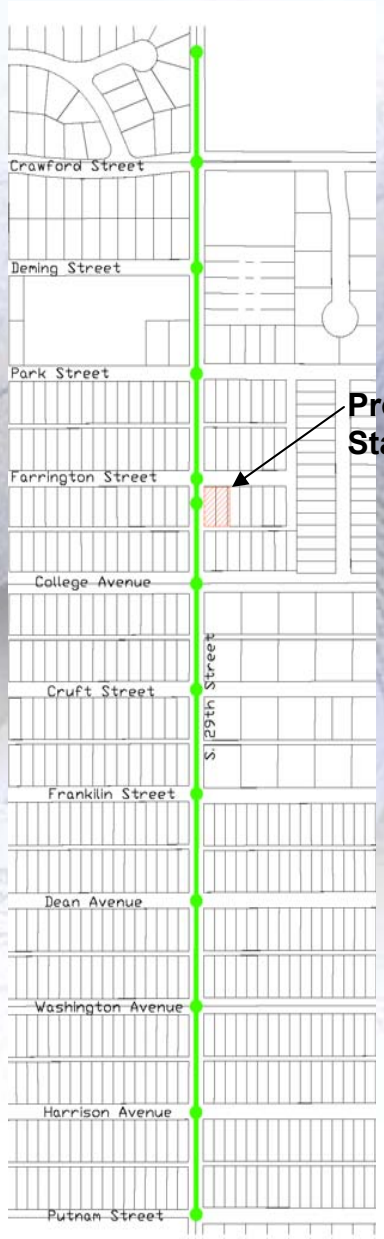
HANNUM, WAGLE & CLINE engineering

Proposed Pump Station & Contributing Gravity Storm Sewers

TERRE HAUTE A LEVEL ABOVE

HANNUM, WAGLE & CLINE engineering

Proposed 29th St. Storm Sewer



TERRE HAUTE
A LEVEL ABOVE

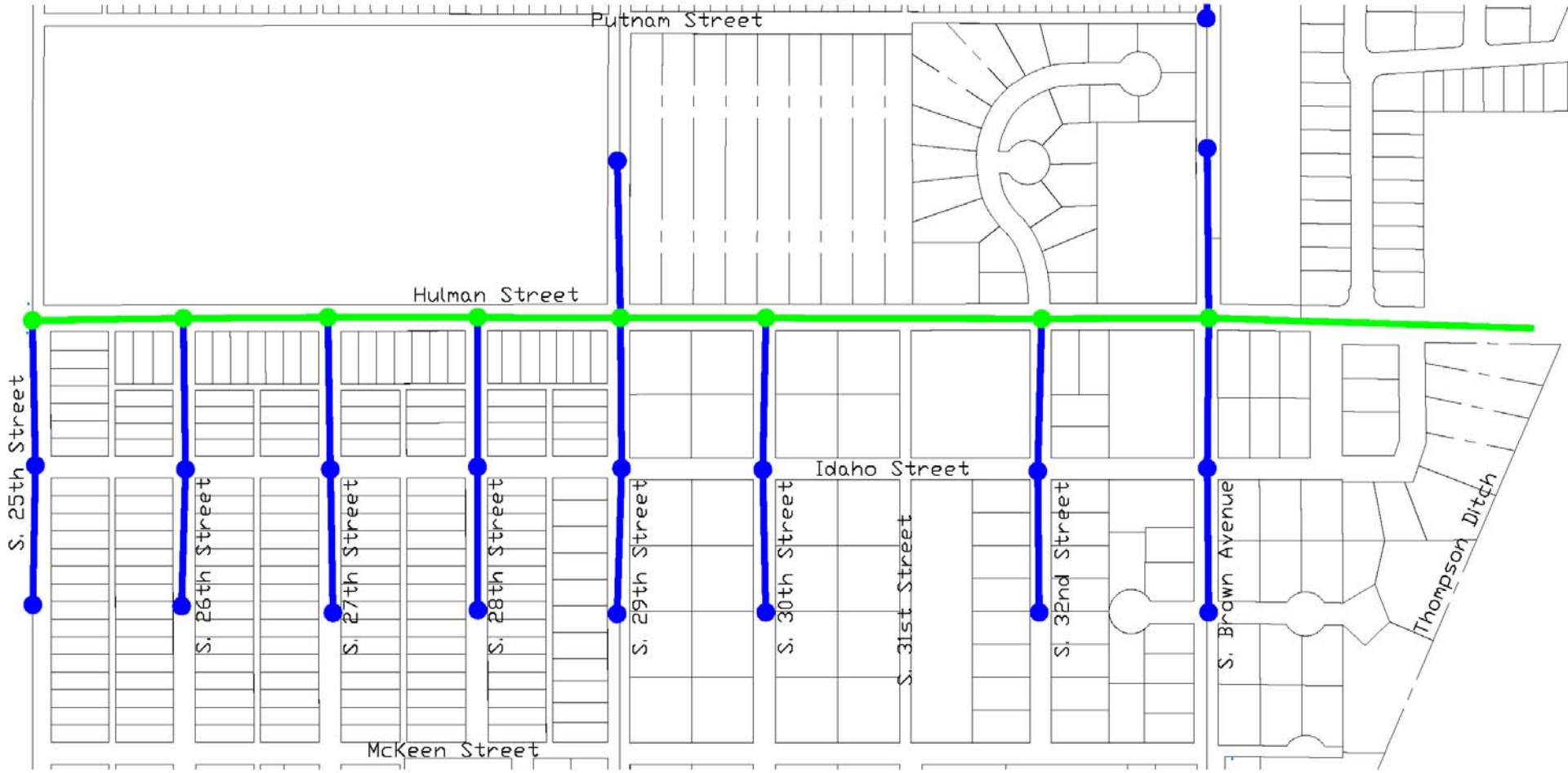
HANNUM, WAGLE & CLINE
engineering

Proposed 29th St. Collector Storm Sewers

TERRE HAUTE
A LEVEL ABOVE

HANNUM, WAGLE & CLINE
engineering

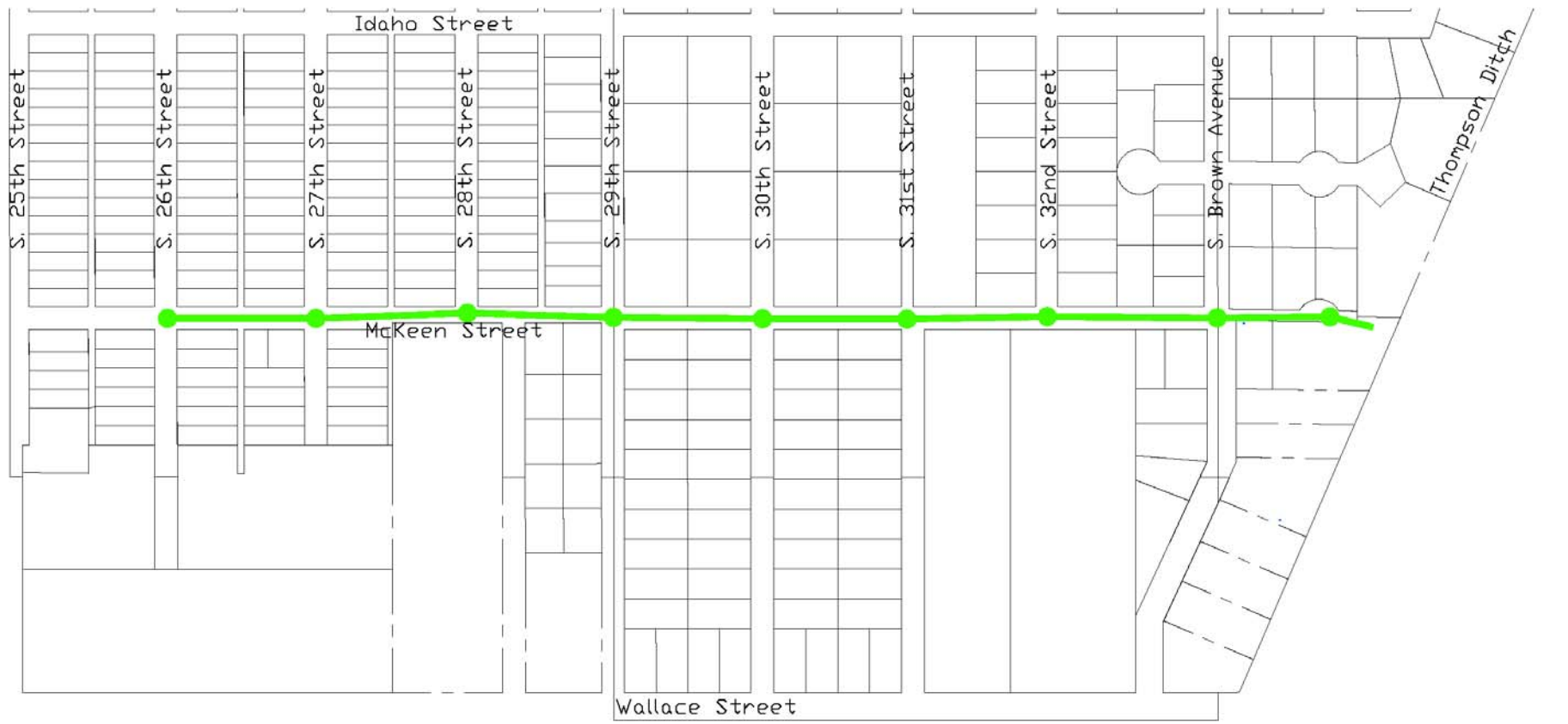
Proposed Hulman St. Collector Storm Sewers



TERRE HAUTE A LEVEL ABOVE

HANNUM, WAGLE & CLINE engineering

Proposed McKeen St. Storm Sewer System



TERRE HAUTE A LEVEL ABOVE

HANNUM, WAGLE & CLINE engineering