



Council Study Meeting
December 18, 2017
6:00 p.m.
City Council Chambers

Agenda

1. Presentation of the Community Survey
2. Update presentation on the storm water master planning process.
3. Other items

City Council Study Meeting

1.

Meeting Date: 12/18/2017

Information

Subject

Presentation of the Community Survey

Information

Jeff Schott will present the Community Survey.

Fiscal Impact

Attachments

No file(s) attached.

City Council Study Meeting

2.

Meeting Date: 12/18/2017

Information

Subject

Update presentation on the storm water master planning process.

Information

Dave Moeller, Snyder and Associates, will present an update on the storm water master planning process (packet).

Fiscal Impact

Attachments

Presentation

STORMWATER MASTER PLAN

CITY OF INDIANOLA

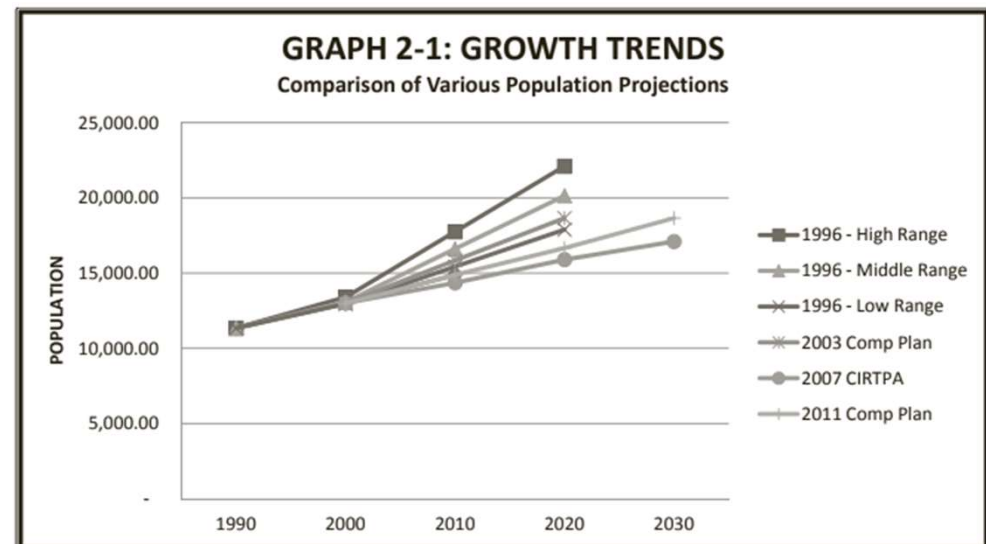
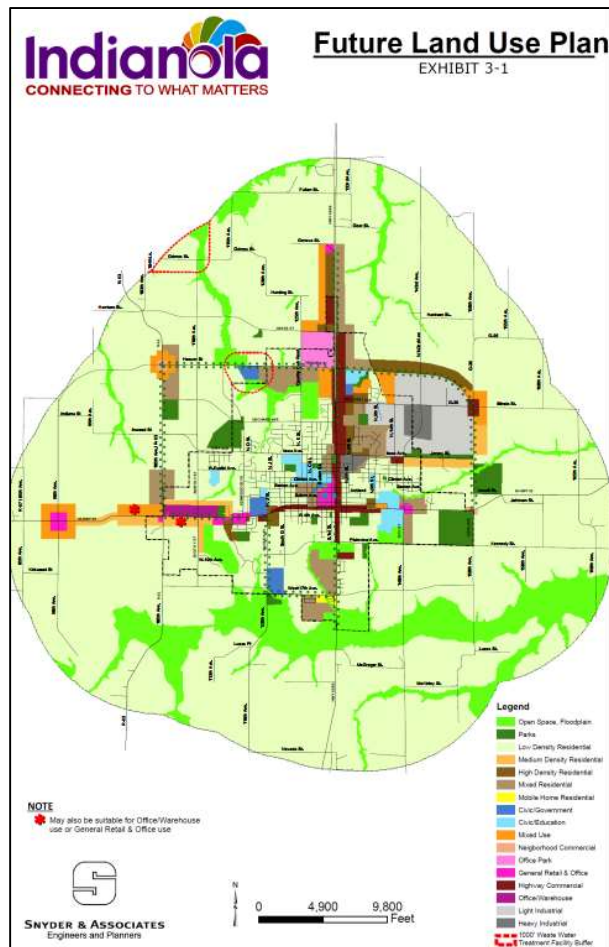


WHAT IS A STORMWATER
MASTER PLAN, AND WHY
DO WE NEED ONE?

Existing System Conditions

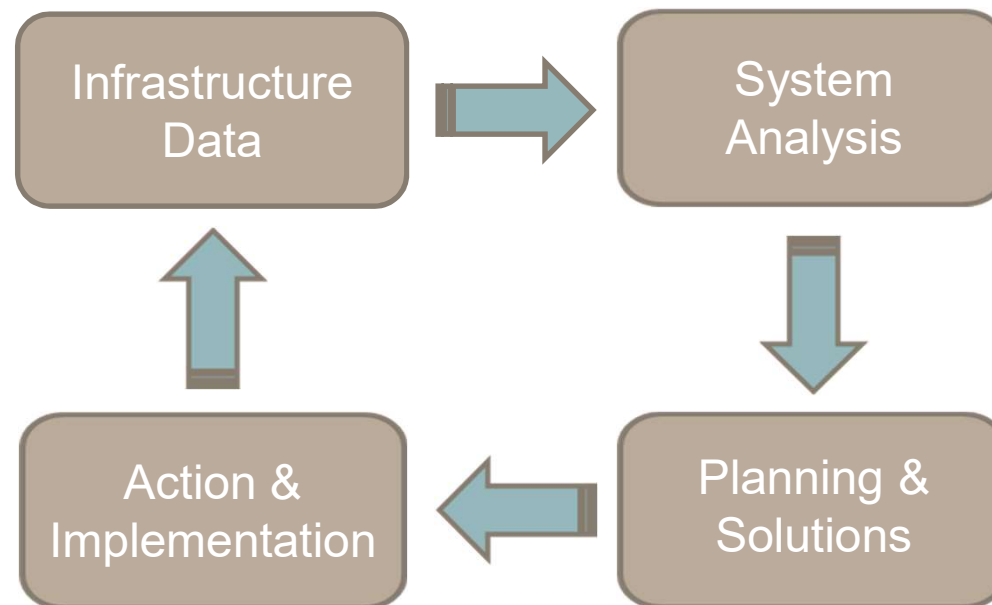


Community Growth = Increased Runoff



- Was the current system designed to handle the City's future?

Defining Pieces of a Master Plan



MASTER PLAN

PART ONE:

INFRASTRUCTURE DATA

Infrastructure Data

- Inventory of Existing Stormwater System Data
- Information Gathering
 - Field Inspections
 - Previous Project Surveys & Plans
 - Knowledge Collaboration with Utility Service Providers
- Proper Management & Organization for Utilization of:
 - GIS
 - Stormwater Modeling
 - Maintenance Schedules
 - Correspondence with City Department Planning

MASTER PLAN

PART TWO:

SYSTEM
ANALYSIS

System Analysis

- Identification of Known Issues
 - City's "To Do List"
 - Resident Input
 - Regulatory Notices
- Investigation of System Components
 - Determination of Issues:
 - Capacity, Condition, or Change Upstream
- Review of Previous Improvements
- Incorporation of City's Goals
- Early Identification of Future Problems

MASTER PLAN PART THREE:

PLANNING &
SOLUTIONS

Planning & Solutions

- Coordination of System's Needs
- Development of Planned Improvements
 - Major & Minor Projects
- Allocation & Acquisition of Funds
 - Stormwater Rates
 - State/Federal Grants
 - Community Stakeholders
- Creation of New Strategies
 - Green Infrastructure

MASTER PLAN

PART FOUR:

ACTION & IMPLEMENTATION

Action & Implementation

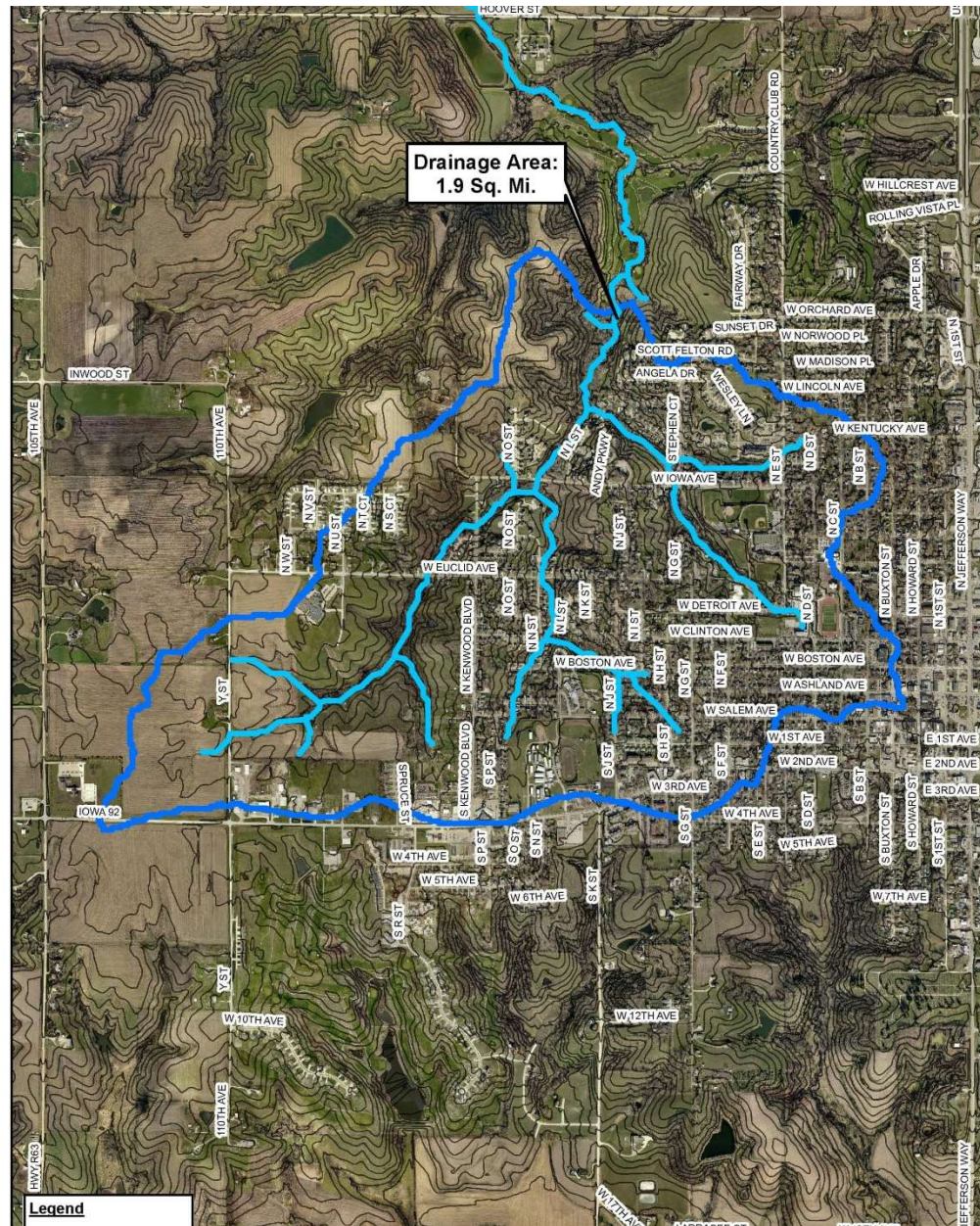
- **Governmental Regulation**
 - Update of City Ordinances
 - Creation of Watershed Protection Organization
 - Permit & Forms for New Development Standards
- **Community Involvement**
 - Publication of Master Plan
 - Citizen Awareness & Participation
 - Recognition for Key Stakeholders
- **Continuous Improvement of System Data**
 - Modeling Ability for Existing System & Future Improvements
 - Investigation into GIS Capabilities
- **Preparation for Future**
 - Evaluation of Strategies Implemented
 - Necessary Changes Reflecting Strategic Plan Revisions

MASTER PLAN FOCUS

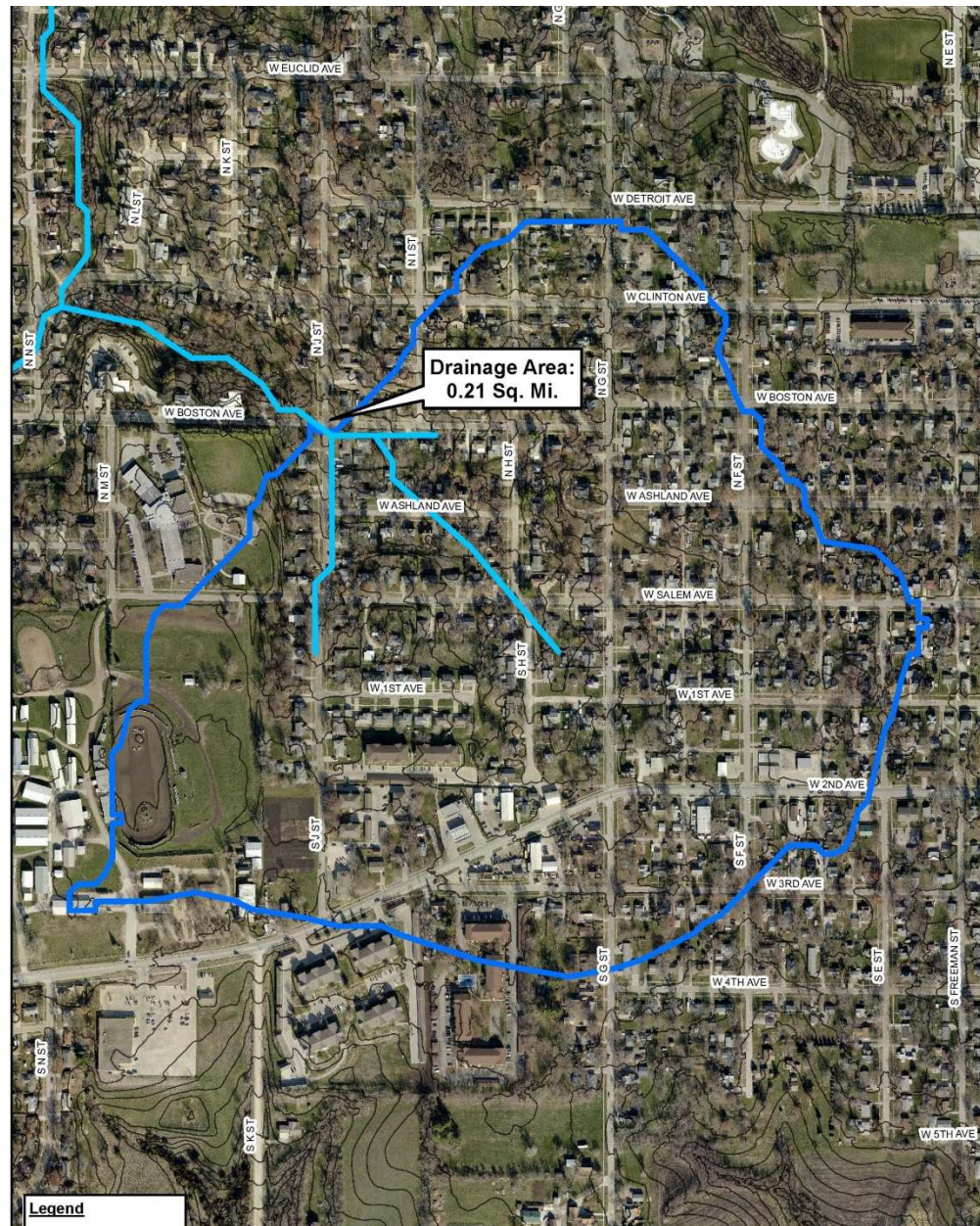
2017 Drainage issues and repair

Item No.	Street Location	Description	Action Item	begin	Estimated Cost
D1	Boston Ave & J Street	Street flooding probably capacity issues	Model Stream as high priority of masterplan	2018	-
D2	East Girard	Curb grades hold water, possible capacity issues	Analysis, Masterplan	2018	\$41,000
D3	S. Buxton Street (between Buxton & Howard)	Deteriorating CMP storm sewer	prepare quote documents	Sep-17	\$74,000
D4	S. 4th Avenue	Culvert erosion	Snyder analysis	2018	-
D5	South of Iowa Ave,	Backyard drainage issues, potential capacity issue	Install by City crews		\$12,000.00
D6	East Kentucky	Channel erosion, exposed sanitary sewer	Model improvements, Masterplan	2018	-
D7	South K Street	Deteriorated cross road CMP	Snyder analysis, produce quote documents	2018	-
D8	W. Clinton	Debris in culvert	Clean by City crews	May-17	-
D9	North Y Street	Erosion at outlet	Repair by city crews	Jun-17	-
D10	North S Street	Erosion at outlet	Refer to memo sent to City on 4/19/2017	May-17	-
D11	Kennedy Street	2 cross road CMP culverts, washed-out and deteriorated	Confirm Diameter, Quote Document, Coordinate with County	Sep-17	\$23,000
D12	Indianola Country Club	North of low spot in orchard, deteriorated CMP	Repair by city crews, However, it appears there may be bigger issues as the street floods regularly and there is concern that upstream intakes do not collect sufficient runoff before it gets to street low-spot.	Aug-17	-
D13	1,000 block of W 4th Street	Washed out around intakes	Repair by city crews	Jul-17	-
D14	G Street & Hwy 92	Broken intake lid	Repairs by city crew	Jun-17	-
D15	C and D Street	Broken intake lid	Repairs by city crew	Jun-17	-
D16	B Street & Hwy 92	Broken intake lid	Repairs by city crew, Coordinate Traffic control with Iowa DOT	Jun-17	-
D17	Buxton Street & Euclid	Sink hole near storm sewer	This drainage issue was reviewed when pavement was removed for the Buxton Street paving project. Replacement of crushed sewer will be change ordered into the Capital Street Project.	Jul-17	\$60,000
D18	Lincoln & C street	plugged intake in driveway	rebuild intake by city crews	May-17	-
D19	1405 E Euclid	storm sewer flooding, resident report	Snyder analysis	2018	-
D20	303 N 14th Street	Existing FES outlet meanders through backyard to stream. Homeowner would like to grade a straight drainage outlet to stream	Will need to analyze velocity at outlet to prevent erosion if regrading is performed.	2018	-

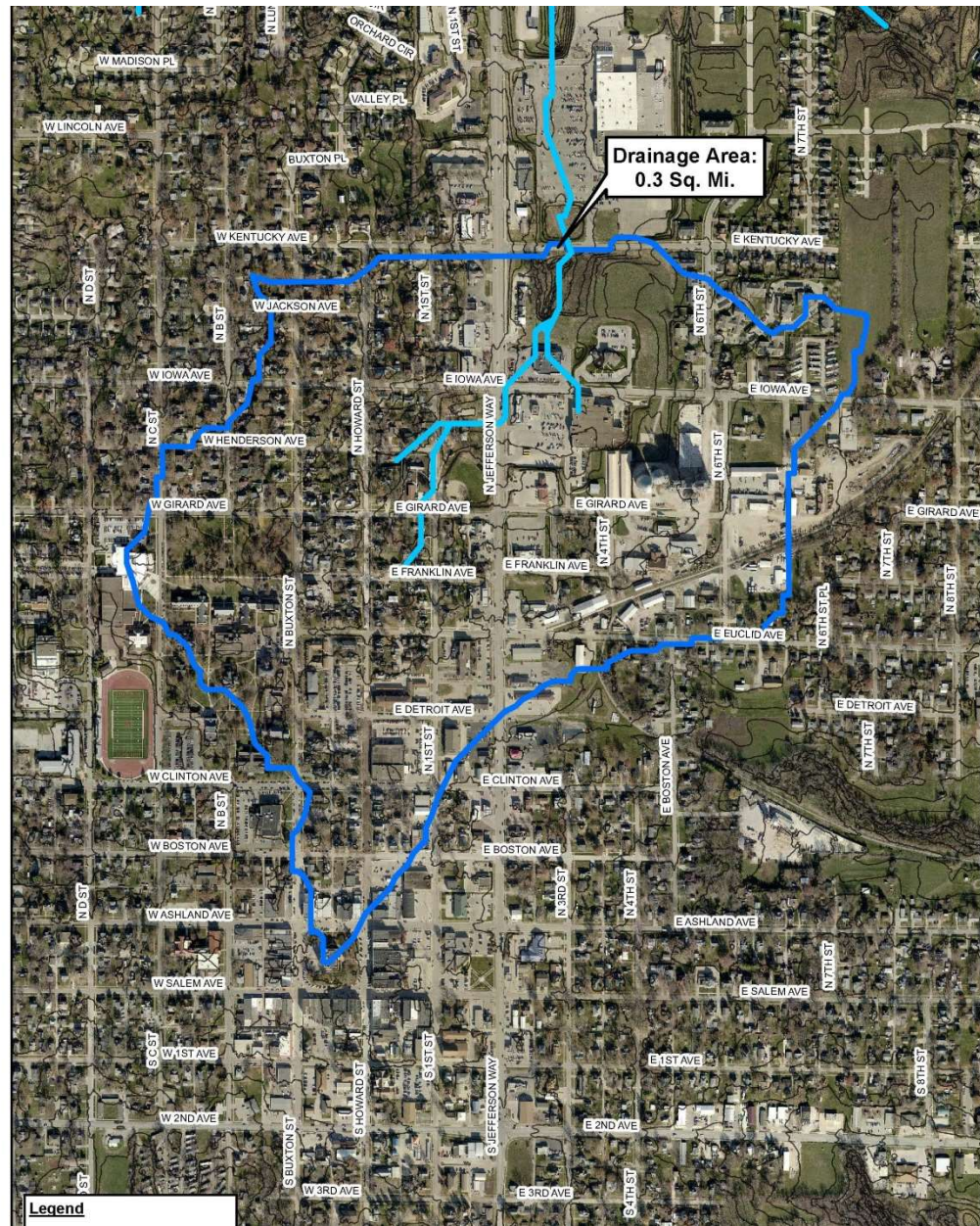
Cavitt Creek at Future Orchard Street Crossing



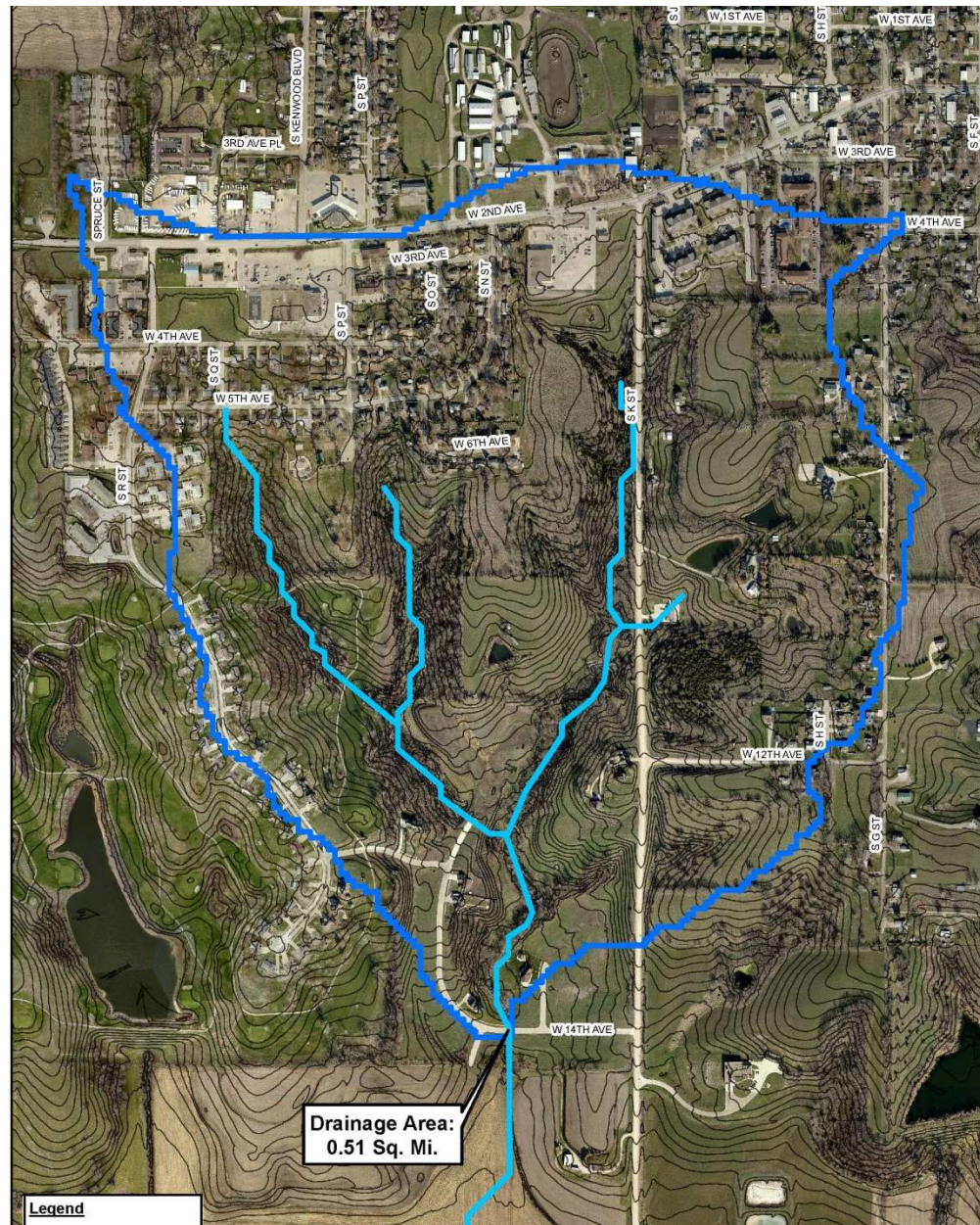
Cavitt Creek at Boston Avenue & J Street



East Branch Cavitt Creek at E Kentucky Avenue



Unnamed Tributary at W 14th Avenue



A Step in the Right Direction

November 6, 2017

Ryan Waller, City Manager
City of Indianola
Via e-mail



The City of Indianola's application for a Clean Water SRF Water Resources Restoration Sponsored Project was complete and will be recommended for funding. The funding recommendations will be included in the draft FY 2018 Clean Water SRF Intended Use Plan (IUP), which will be released for public review and comment today. The maximum amount available for the sponsored project will be \$310,000 but that amount is subject to change based on the final amount drawn on and the timing of the underlying wastewater loan.

The Iowa Department of Natural Resources and the Iowa Finance Authority will hold a public meeting to receive comments on the IUP on Thursday, November 9, 10:00 a.m., at the Wallace State Office Building, 502 E. 9th Street, Des Moines. Written comments will be accepted through 4:00 p.m. on Thursday, November 16. Written comments may be directed to Lee Wagner, State Revolving Fund Non-Point Source Program Planner, Water Quality Bureau, Iowa Department of Natural Resources, fax 515-725-8202, e-mail Lee.Wagner@dnr.iowa.gov. It is anticipated that the Environmental Protection Commission will act on the recommendations at its December 19, 2017 meeting.

Once the funding recommendations are approved, the detailed project review and approval process will begin. A DNR project manager will be assigned at that time. I've attached the Project Milestone Checklist, which will serve as a road map for project planning and approval.

DNR will hold individual project initiation meetings with applicants, consultants (Snyder & Associates, Inc.), urban conservationist (Derek Namanny, IDALS), and any other parties involved in the project. The participants will discuss the technical requirements and standards for the projects, schedules, SRF requirements, any permitting requirements (e.g. Army Corps of Engineers, flood plain, storm water, NPDES), 28E agreements, and any other project issues.

When plans and specifications are prepared, they must be submitted to DNR for review. No construction can begin until DNR and the appropriate environmental agencies have approved the design, water quality volume calculations, or other specifications as appropriate. The plans and specs will also require SRF front-end documents which will be provided to applicants.

The nonpoint source practices eligible for sponsored projects generally do not require wastewater construction permits from DNR. However, approval letters from DNR will be issued to indicate that the sponsored projects have met the SRF requirements.

The sponsored project must be bid by the utility in accordance with all applicable bidding laws and all applicable SRF requirements. The bid documents for the sponsored project must be submitted to DNR for approval using the sponsored project bid checklist. DNR will check for compliance with federal requirements and determine whether or not all the costs on the bid form are eligible for SRF reimbursement.

After bids are approved, the wastewater utility must submit or amend its SRF loan application to include the sponsored project costs. The loan application must be approved by the Iowa Finance Authority (IFA).

The utility must work with bond counsel to schedule a public hearing and pass a resolution authorizing the utility to enter into a loan amount not to exceed the total cost of the wastewater improvement project and the sponsored project.

All SRF loan proceeds are disbursed after the borrower incurs costs. The borrower submits a reimbursement request to IFA, including copies of invoices and other documentation. Since disbursements are made weekly, the borrower typically does not need to pay invoices before receiving loan proceeds. The utility must approve all sponsored project costs before submitting them to IFA for reimbursement. IFA checks all reimbursement requests against the original approved bid form to make sure all costs are eligible.

We look forward to approval of the project recommendation by the EPC in December, and to working with the City, its consultants, and other partners to initiate the project once EPC approval is received.

QUESTIONS?

City Council Study Meeting

3.

Meeting Date: 12/18/2017

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Subject

Other items

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Fiscal Impact

Attachments

No file(s) attached.
