

COMMON COUNCIL OF THE CITY OF HOBART, INDIANA

Resolution No. 2022 - 07

A Resolution to Adopt and Approve an Interlocal Agreement for the Purchase of Construction Services and other Services, Supplies, and Equipment for Mutual Benefit with the Little Calumet River Basin Development Commission

WHEREAS, the Common Council (“Council”) of the City of Hobart, Indiana (“City”) has received a proposed Interlocal Agreement by and between the City and the Little Calumet River Basin Development Commission (“Commission”) to allow the Commission to assist the City of Hobart in carrying out the Stinky Creek portion of the Project known as the Stinky Creek and Turkey Creek Lateral 6 and Diversion and Regional Storm Water Project; and

WHEREAS, the Hobart Board of Sanitary Commissioners and Stormwater Management District Commissioners have reviewed said Agreement and recommends the Council adopt and approve the same; and

WHEREAS, the City of Hobart is a political subdivision empowered by the Interlocal Cooperation Act, as amended (I.C. 36-1-7-1, et seq.) with authority to contract on behalf of other governmental agencies on the basis of mutual advantage so as to better provide public services and facilities on a more efficient basis; and

WHEREAS, said Agreement, which is attached hereto and made a part hereof, allocates the terms, covenants and conditions of said Agreement; and

WHEREAS, said Agreement will take effect upon its adoption by both governmental entities, and continue in effect until the conclusion of the project described therein; and

WHEREAS, the Council, in order to make the proposed Interlocal Agreement effective under the law, desires to enact this Resolution approving and adopting said Agreement and spreading the same upon the public record.

THEREFORE, BE IT RESOLVED by the Common Council of the City of Hobart, Indiana as follows:

SECTION ONE: The Interlocal Agreement by and between the City of Hobart and Little Calumet River Basin Development Commission allowing the Commission to assist the City in carrying out the Stinky Creek portion of the Project known as the Stinky Creek and Turkey Creek Lateral 6 and Diversion and Regional Storm Water Project, in accord with the attached Agreement, is hereby approved and adopted in all respects, and the City Executive and Clerk-Treasurer are authorized to

execute and attest to same, or one substantially in conformance with it, on behalf of the City; and

SECTION TWO: Upon such execution, the instrument attached hereto shall constitute the valid and subsisting agreement of the City for the uses and purposes stated therein.

SECTION THREE: The provisions of said Agreement in its entirety are specifically incorporated herein by reference as if fully set out as an integral part of this Resolution.

ALL OF WHICH is PASSED and ADOPTED by the Common Council of the City of Hobart, Indiana on this 15th day of JUNE, 2022.

Mark Clem
~~Brian K. Snedecor~~, Presiding Officer

MATTHEW CLAUSSEN

ATTEST:

Deborah A. Longer
Deborah A. Longer, Clerk-Treasurer

PRESENTED by me to the Mayor of the City of Hobart on the 15th day of JUNE, 2022 at the hour of 7:30 p.m.

Deborah A. Longer
Deborah A. Longer, Clerk-Treasurer

APPROVED, EXECUTED and RETURNED by me to the Common Council of the City of Hobart on this 6th day of JUNE, 2022.

Brian K. Snedecor
Brian K. Snedecor, Mayor

ATTEST:

Deborah A. Longer
Deborah A. Longer, Clerk-Treasurer

**INTERLOCAL COOPERATION AGREEMENT FOR THE
PURCHASE OF CONSTRUCTION SERVICES AND OTHER
SERVICES, SUPPLIES, AND EQUIPMENT FOR MUTUAL BENEFIT**

WHEREAS, Indiana Code I.C. 36-1-7-1, et seq., allows government entities to make the most efficient use of their powers by enabling them to mutually utilize vendors, contractors, equipment, supplies, engineering/construction services and other services for the mutual benefit of each other; and

WHEREAS, the Little Calumet River Basin Development Commission ("LCRBDC"), is created pursuant to I.C. 14-13-2-5 and is created as a public body corporate and politic, with authority to contract on the basis of mutual advantage so as to better provide public services and facilities on a more efficient basis; and

WHEREAS, the City of Hobart ("City") is a political subdivision empowered by the Interlocal Cooperation Act, as amended, (I.C. 36-1-7-1, et seq.) with authority to contract on behalf of other governmental agencies on the basis of mutual advantage so as to better provide ~~public services and facilities on a more efficient basis; and~~

WHEREAS, the LCRBDC and the City desire to enter into an Agreement consistent with I.C. 36-1-7-1, et seq., to carry out the construction project set forth in the Little Calumet River Basin Development Commission Application for Funding-Construction Projects attached hereto and made a part hereof as Exhibit "A" and to provide for the ability to purchase construction services, engineering services, other services, supplies and equipment for the mutual benefit of the participating entities;

NOW THEREFORE, in consideration of the mutual terms, covenants and conditions set forth herein, the LCRBDC and the City hereby agree as follows to-wit:

Section 1. **DURATION**. The duration of this Agreement shall be from July 1, 2022 through duration of project, provided said Agreement is adopted by resolution by each of the political subdivisions entering into this Agreement prior to the commencement date, and is renewable by written notice to LCRBDC at least sixty (60) days prior to the expiration date and evidenced by the passage of similar resolutions, should the purposes of this Agreement necessitate it.

Section 2. **PURPOSE**. The purpose of this Agreement is to authorize and allow the carrying out of the project of the City more fully described and set forth on that certain "Little Calumet River Basin Development Commission Application For Funding-Construction Projects" attached hereto and made a part hereof as Exhibit "A" and such other documents as may become appended hereto upon execution. Plans and specifications for the project shall be attached hereto and made a part hereof as Exhibit "B". The City's Resolution shall be attached hereto as Exhibit "C".

Section 3. **ADMINISTRATION**. This Agreement shall be administered through a single entity, namely, the City with minimal oversight by the LCRBDC. The City shall be responsible for the ultimate manner of financing, staffing and maintaining a budget for the project.

Section 4. **CLERK-TREASURER**. The duly elected Clerk-Treasurer of the City shall have the duty and responsibility to coordinate all contracts, invoices, and related updates with

respect to the project. The Clerk-Treasurer shall perform all customary and usual duties and responsibilities associated with the office and required by law as it relates to the project.

Section 5. **OTHER TERMS.** In further consideration of the mutual promises and covenants contained herein, it is additionally agreed as follows:

(A) The Project contemplated herein shall be known as the Stinky Creek and Turkey Creek Lateral 6 and Diversion and Regional Storm Water Project; however, this Agreement shall involve only the Stinky Creek portion of the Project.

(B) The City shall primarily provide the administration and supervision over the general construction services related to the project and as described in Exhibits "A" and "B" herein. The LCRBDC shall only provide minimal oversight to ensure that the project is proceeding as applied for and specified herein.

(C) The LCRBDC shall commit the sum not to exceed the amount of Four Hundred and Fifty Thousand Dollars (\$450,000.00) to be payable in equal installments or via a construction draw as directed by LCRBDC within thirty (30) days of the request for payment.

~~(D) The City hereby agrees to indemnify and hold harmless the LCRBDC, its employees, representatives, agents, heirs, executors, successors and assigns from any and all actions, causes of action, claims, and demands for and by reason of the construction project contemplated herein.~~

(E) The City hereby agrees to provide the LCRBDC the "as built" drawings at the project's conclusion. If there are no such "as built" drawings for the project, then the City shall provide the LCRBDC with a complete set of drawings utilized in the project at its conclusion.

(F) The City shall provide the LCRBDC a recurring maintenance plan for the project that shall include the funding mechanism for said maintenance.

Section 6. **TERMINATION.** Upon satisfactory completion of the Project and acceptance by the City, LCRBDC, and all applicable governmental entities, this Agreement shall be deemed at an end. All supplies or equipment purchased by the City to complete the project shall remain the sole property of the City. In the event the project is terminated prior to completion, the City shall return all unexpended funds of the LCRBDC and the obligation of the LCRBDC to pay the balance of its funding commitment shall be at an end. Further, this Agreement may be terminated by either one of the participating entities upon ninety (90) days prior written notice to the other at the address indicated herein. Upon termination, any unexpended funds of the LCRBDC shall be returned to the LCRBDC, and the LCRBDC's further obligation to pay any committed funds shall be at an end and terminated.

Section 7. **COUNTERPARTS.** This Interlocal Cooperation Agreement may be executed in counterparts, each of which when so executed shall be deemed to be an original, and such counterparts, together, shall constitute but one and the same instrument, which shall be sufficiently evidenced by any such original counterpart.

Section 8. **RECORDING.** Before this Agreement takes effect, the LCRBDC must record the same with the Office of the Lake County Recorder. The LCRBDC agrees to pay the recording fees. No later than sixty (60) days after it takes effect and is recorded, this Agreement

must be filed with the Office of the State Board of Accounts for audit purposes, all pursuant to I.C. 36-1-7-6.

Section 9. **EFFECTIVE DATE.** This Agreement shall be effective after the same has been ratified by each of the participating entities by ordinance or resolution pursuant to I.C. 36-1-7-2.

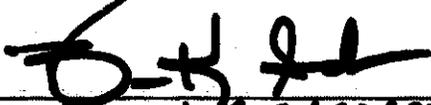
IN WITNESS WHEREOF, the parties have caused this Interlocal Cooperation Agreement to be executed in their names and on their behalf on the 1st day of JUNE, 2022

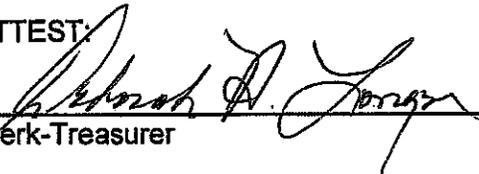
Little Calumet River Basin Development Commission

By: 
William Baker, Chairman
900 Ridge Road, Suite H
Munster, IN 46321

By: 
Daniel Repay, Executive Director

City of Hobart

By: 
Print: Brian K Slesseur
Title: Mayor
414 Main Street
Hobart, IN 46342

ATTEST: 
Clerk-Treasurer

| LITTLE CALUMET RIVER BASIN DEVELOPMENT COMMISSION APPLICATION FOR FUNDING - CONSTRUCTION PROJECTS Due the 1st Day of Each Month | |
|--|--|
| Instructions: If the project is for planning and design, please complete pages 1 and 2 of this application. If the project is for construction, please complete pages 1 and 3 of this application. If the project is for maintenance, please complete pages 1 and 4 of this application. | |
| GENERAL INFORMATION | Response |
| Project name | Stinky Creek and Turkey Creek Lateral 6 Diversion and Regional Storm Water Project |
| Project Type | Storm Water Diversion & Regional Drainage Improvement |
| Project identification (from the August 13, 2013 LCR Comprehensive Plan, if applicable) | Yes, Section 3.37 and 3.3.7.4 It was also identified in Municipal Meeting Interviews with Hobart. See Note 1 |
| Local sponsor (e.g. municipality name, government entity) | Hobart Sanitary District |
| Project location (nearest intersecting streets) | Ridge Road (37th) and Indiana Street |
| Project location (section, township, range, nearest 1/4 section) | (19,24,25,30),45N,19W, Multiple |
| Project location (attach aerial map depicting project location and label as Attachment 1) | See Attachment 1 |
| Project description purpose (attach as Attachment 2) | Flood Control - See Attachment 2 |
| What is the anticipated project start date? | Design in 2021; Construction 2022-2023 |
| Community(s) where the project is located | Hobart, Lake Station, New Chicago |
| Major watershed (Hart Ditch, Deep River) | Deep River |
| Minor watershed <u>Design</u> | Stinky Creek, Turkey Creek Lateral 6 |
| What is the total construction cost of the project in current year dollars? (provide itemized cost as Attachment 3) | \$983,660 |
| What amount of funding is being requested? | \$786,000 |
| What percentage of the total construction <u>Engineering</u> cost is the local sponsor contributing? | 20% |
| Is this project a result or recommendation of a community stormwater management plan? (provide copy upon request) | Hobart Cressmoor Sewer Study (Attached) HSSWD's Storm Water Masterplan) |
| Does your community have a stormwater management plan? (provide copy upon request) | Yes |
| Page 1 of 4 | |

Note 1. In addition to improving identified LCRCP community projects, Hobart identified several storm water issues with in the City during their interview as part of the LCR study including numbers 4,10,11,&14. A relevant section of the LCRCP included in Attachment A.

| PLANNING AND DESIGN PROJECT WORKSHEET <i>(Do not complete unless the project is a planning and design project)</i> | |
|--|--|
| PROJECT BENEFITS (Planning and Design) | Response |
| What is the project benefit to cost ratio over a 20 year life cycle (include capital and maintenance costs, provide justification as Attachment 4)? | See Attachment 4. |
| Does the project provide stormwater detention? | Yes. |
| If the project provides stormwater detention, what is the ratio of the volume of stormwater detention (ac-ft) to watershed area (acres) served by the stormwater | 8 acre-ft: 275 Acres |
| Does the project involve stream bank stabilization? | Yes |
| Will the project reduce downstream sedimentation? | Yes |
| Will the project reduce the number of houses (actual structures) or businesses (actual structures) that flood? | Yes |
| If the opportunity reduces the number of houses or businesses (actual structures) that flood, how many will be impacted? (Provide justification as Attachment 4) | See attachment 4. |
| Will the opportunity reduce the number of roadway closings due to flooding? | Several - See attachment 4 |
| If the opportunity reduces the number of roadway closings due to flooding, how many locations are positively affected? (Provide justification as Attachment 4) | 34 |
| Does the opportunity provide benefit to multiple communities? (Provide justification as Attachment 4) | Yes |
| If the project provides benefit to multiple communities, list the communities. | Directly -Hobart, New Chicago, Lake Station, Merrillville, and Gary (See note 1 below) |
| Does the project provide for aspects that will improve water quality? (Provide justification as Attachment 4) | Yes - See Attachment 4 |
| Does the project provide for aspects that will improve wildlife habitat? (Provide justification as Attachment 4) | Yes - See Attachment 4 |
| Does the project provide for aspects that will improve recreation? (Provide justification as Attachment 4) | Yes. Will provide flood relief of Park North of Hansen Blvd. |
| PROJECT SPECIFICS (Planning and Design) | Response |
| Will land or easement acquisition be necessary for this project? | Yes |
| Are wetlands in excess of 0.1 acres be disturbed as a result of this project? | Yes |
| Will USACE permits be required for this project? | Yes |
| Will an individual IDEM 401 Water Quality Permit be required for this project? | Yes |
| Will a DNR Construction in a Floodway permit be required for this project? | Yes |
| Will archeological investigations be required for this project? | Yes |
| Does the project have an associated hydraulic/hydrologic study justifying the benefits of this project? (Provide as Attachment 5) | Yes - See Attachment 5 |
| Is a funding source identified for the on-going operations and maintenance of this project when it is complete? (Provide details as Attachment 6) | Yes |
| Page 2 of 4 | |

Note 1 - The project will directly impact Hobart, New Chicago, Lake Station, Merrillville, and Gary. Indirectly the project benefits every community that drains into Turkey Creek, Deep River, and the Little Calumet River.

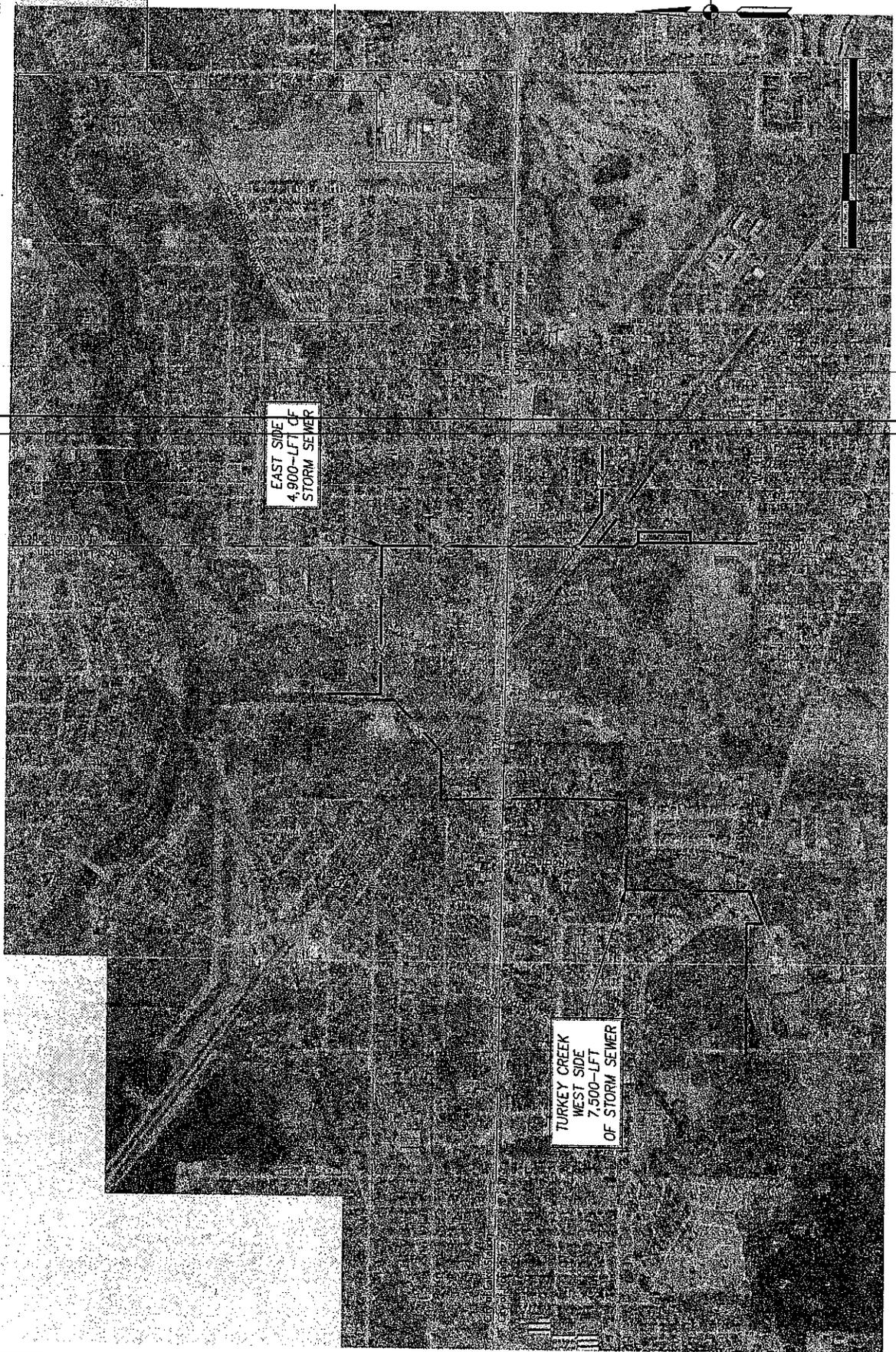
Attachment 1

ABONMARCHÉ
 17 N. WESTFIELD STREET
 CHICAGO, IL 60653
 TEL: 312.467.4524
 FAX: 312.467.4525
 WWW.ABONMARCHÉ.COM
 501 N. LAKE STREET
 CHICAGO, IL 60611
 TEL: 312.467.4524
 FAX: 312.467.4525

**STINKY CREEK AND TURKEY
 CREEK LATERAL & DIVERSION
 AND REGIONAL STORM WATER
 PROJECT**

PROPOSED ALTERNATES

DRAWN BY: AMR
 DESIGNED BY:
 PROJECT NO.:
 CHECKED BY:
 DATE: 11/19/2020
 SCALE: 1" = 800'
 HORIZ: 1" = 800'
 VERT:
 ACTIVITY:
 SHEET NO.: **18-1612**



RBY: RDATE:
 RNUA: RDESC:

LITTLE CALUMET RIVER BASIN DEVELOPMENT COMMISSION

COMPREHENSIVE WATERSHED PLAN

MEETING MINUTES

Meeting Date: March 13, 2013

Location: Hobart City Hall

Meeting Purpose: Meeting with Hobart Technical Staff

Attended By: Bob Fulton (Hobart Sanitary District President)
Phil Gralik (Hobart City Engineer)
Tim Kingsland (Hobart Sanitary/Stormwater District Coordinator)
Jake Dammarell (BF&S)
Dave Lahey (BF&S)
Tony Kenning (DLZ)
Craig Hendrix (SEH)

Distributed To: Those in attendance
Dan Repay

Items Discussed (See Attachment A for Graphical Location of Representative Some Items)

- 1) Explained the goal of the Watershed Study and the role the watershed communities play in the study.
- 2) Discussed the opportunities and challenges of Lake George. Water level in Lake George is controlled by a dam. The lake level is controlled by the DNR. Lake George could be utilized better if Hobart was able to control the lake level. Hobart could lower the lake level in anticipation of upstream stormwater flow. This would provide storage that would provide benefit for downstream communities.
- 3) Lake George was dredged in 2002. It is beginning to fill with sediment already. Erosion control measures need to be enhanced upstream of Lake George. The lake will need dredging again in the near future.
- 4) Hobart discussed problems with "Stinky Creek" which travels through the golf course and eventually drains to Deep River. The creek does not flow very well.
- 5) The Brickie Bowl floods during heavy rain events. Hobart is interested in redeveloping the area to host outdoor events.
- 6) Hobart discussed needed improvements in the Barrington Ridge Subdivision, specifically the area near Randolph Street.
- 7) Hobart has identified the area south of 61st Avenue, across from Wisconsin Street, as a potential area for storage. Hobart is contemplating the parcel as part of the 61st Avenue Reconstruction Project.
- 8) Drainage issues exist east of the Preserves Development (east of Mississippi Street, behind the Westfield Mall).

March 13, 2013

Little Calumet River Basin Development Commission
Meeting Minutes from Meeting with City of Hobart

Page -2-

- 9) Hobart discussed a proposed project to construct wetlands along Liverpool Road and 57th Avenue.
- 10) The Hillman Heights Drainage Improvement Project was discussed. The project will correct drainage problems and create storage.
- 11) Hobart discussed drainage problems that exist behind Eagle Plaza. There may be an opportunity for storage.
- 12) There may be an opportunity to create storage at Mundell Field. When dry, the storage basin could be utilized for recreational activities.
- 13) There may be storage opportunities near Maple Lake, on the north side of Ainsworth Road.
- 14) Hobart suggested that the area south of Evergreen Memorial Park, east of I-65, might provide an opportunity for storage.
- 15) Both Deep River and Turkey Creek have bank erosion issues. A program should be developed to stabilize the banks and control sedimentation.
- 16) The shoreline of Lake George needs stabilization to reduce the deposition of sediments in the lake.
- 17) Drainage improvements are needed in the area of County Line Road between US 6 and Cleveland. These are areas also identified for improvement in Porter County's and Portage's master plans.
- 18) Drainage improvements are needed in the Crestwood Subdivision.
- 19) Drainage improvements are needed in the County Line Road and 61st Avenue area.
- 20) An opportunity exists in the Northwinds Subdivision to expand the existing storage basin.
- 21) An opportunity exists in the Nob Hill Subdivision to expand the existing storage basin.

Other Items Discussed

1. Hobart provided very detailed answers on the questionnaire. A number of additional projects with costs and schedules were indentified.
2. Hobart suggested that some entity needs to manage regional land acquisition activities for use in the watersheds. Sometimes opportunities for storage that might benefit a community lie outside the community. This entity could acquire and manage land acquisition activities to benefit the neighboring community.
3. There are very few regulated drains in Hobart. Hobart does not have the opportunity to obtain much funding from the Lake County Surveyor's office for ditch maintenance.
4. Hobart discussed the need for additional studies, maintenance and regional watershed policy for Deep River and Turkey Creek. Opportunities exist now that, when developed, will not exist. Opportunities include regional storage, erosion control efforts, enhanced developmental standards, etc.

March 13, 2013

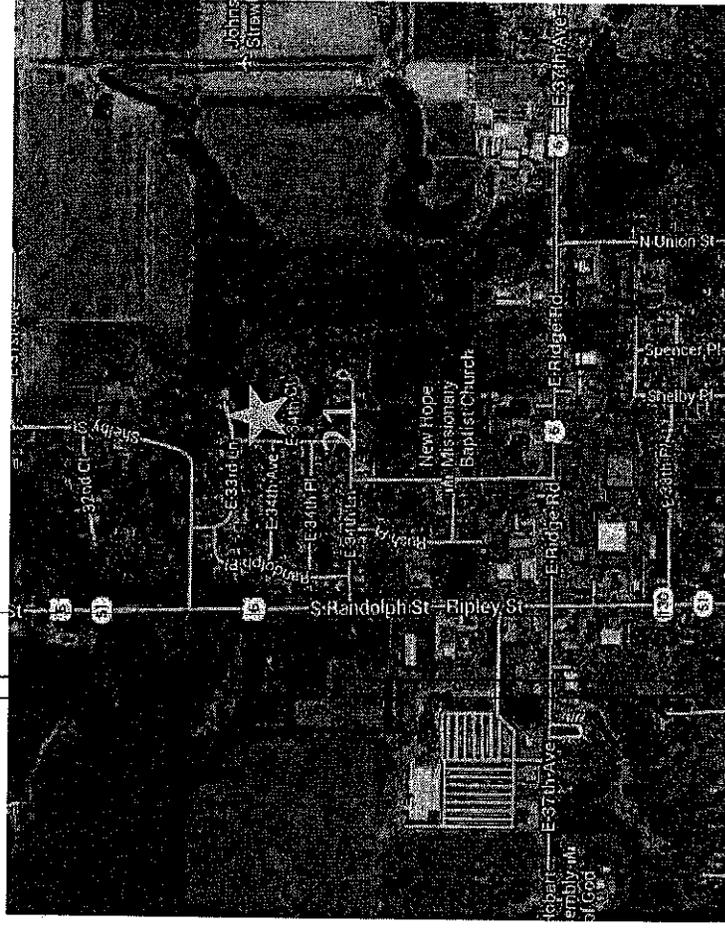
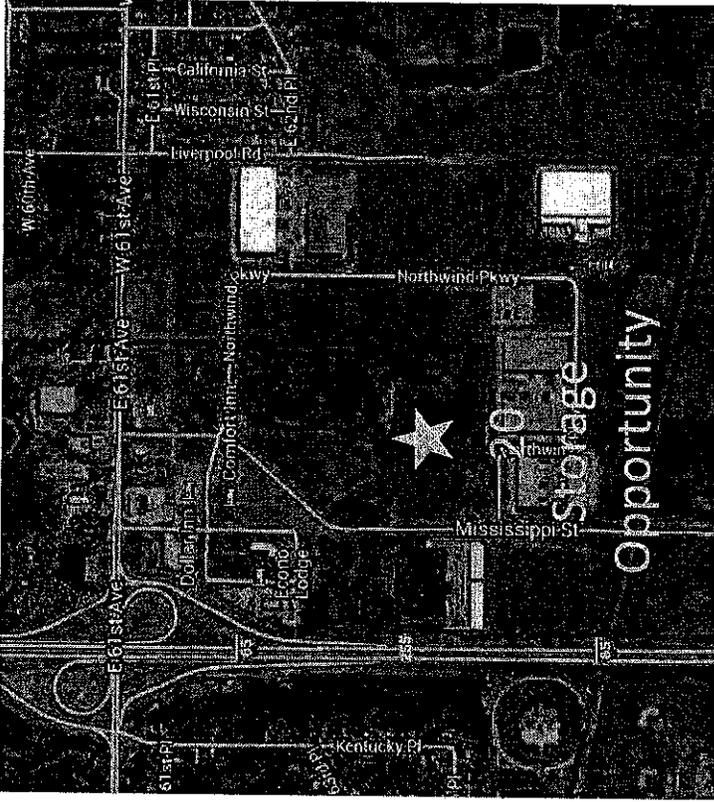
Little Calumet River Basin Development Commission
Meeting Minutes from Meeting with City of Hobart

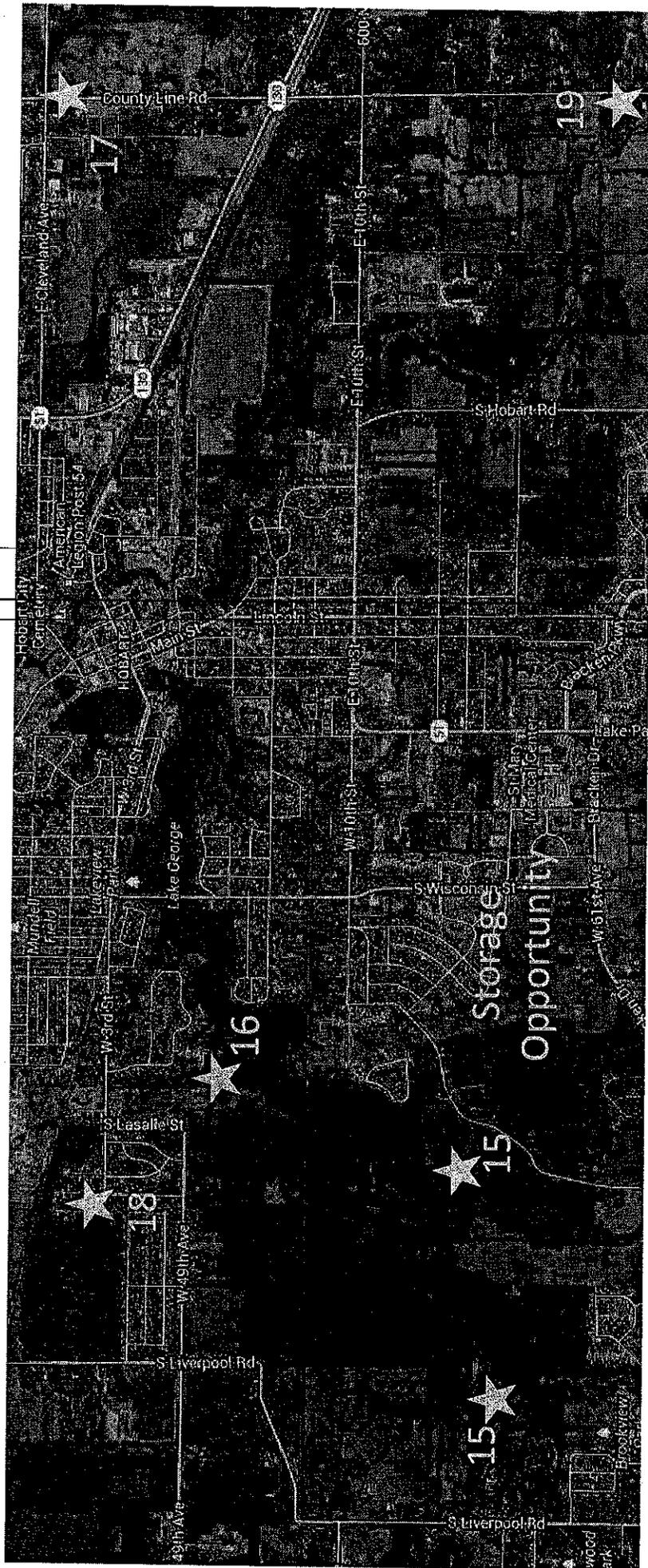
Page -3-

Conclusion

Should the recipients of these meeting minutes wish to make additions or corrections to these meeting minutes, please contact Tony Kenning or Craig Hendrix within five (5) business days of the receipt of these meeting minutes.

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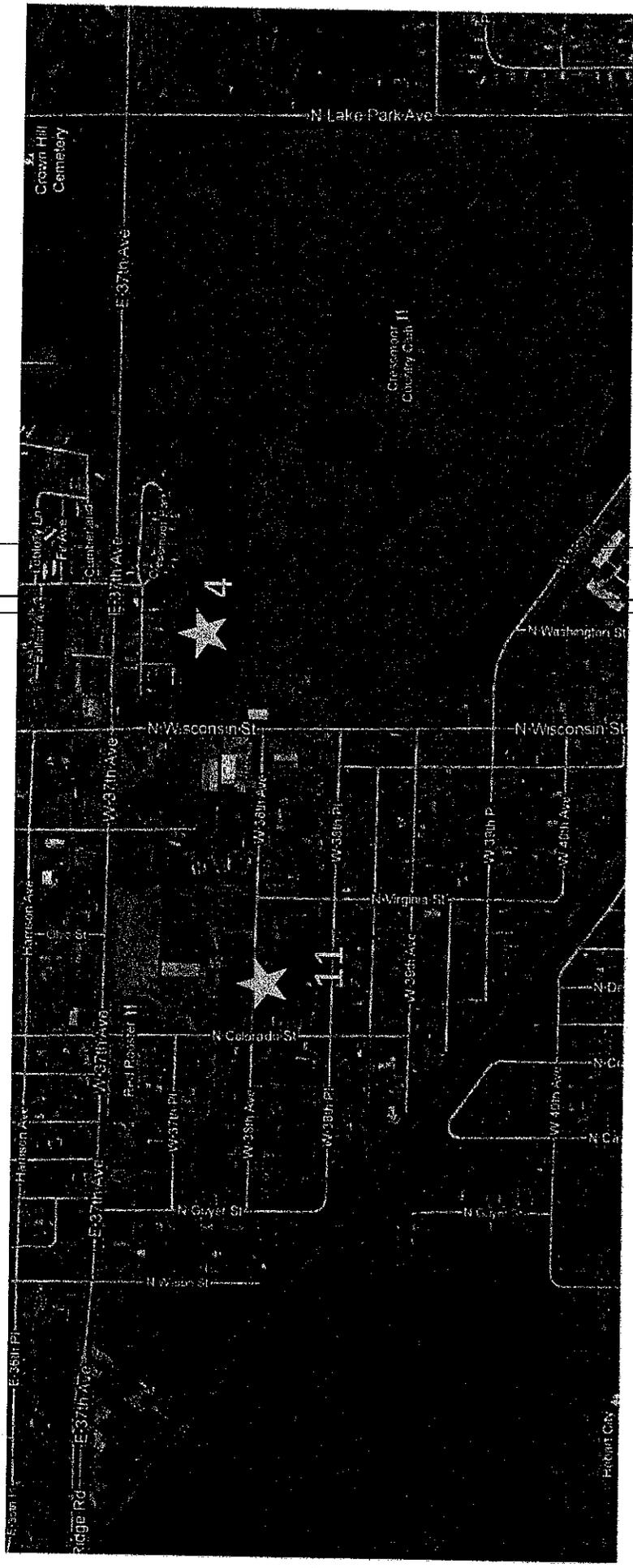




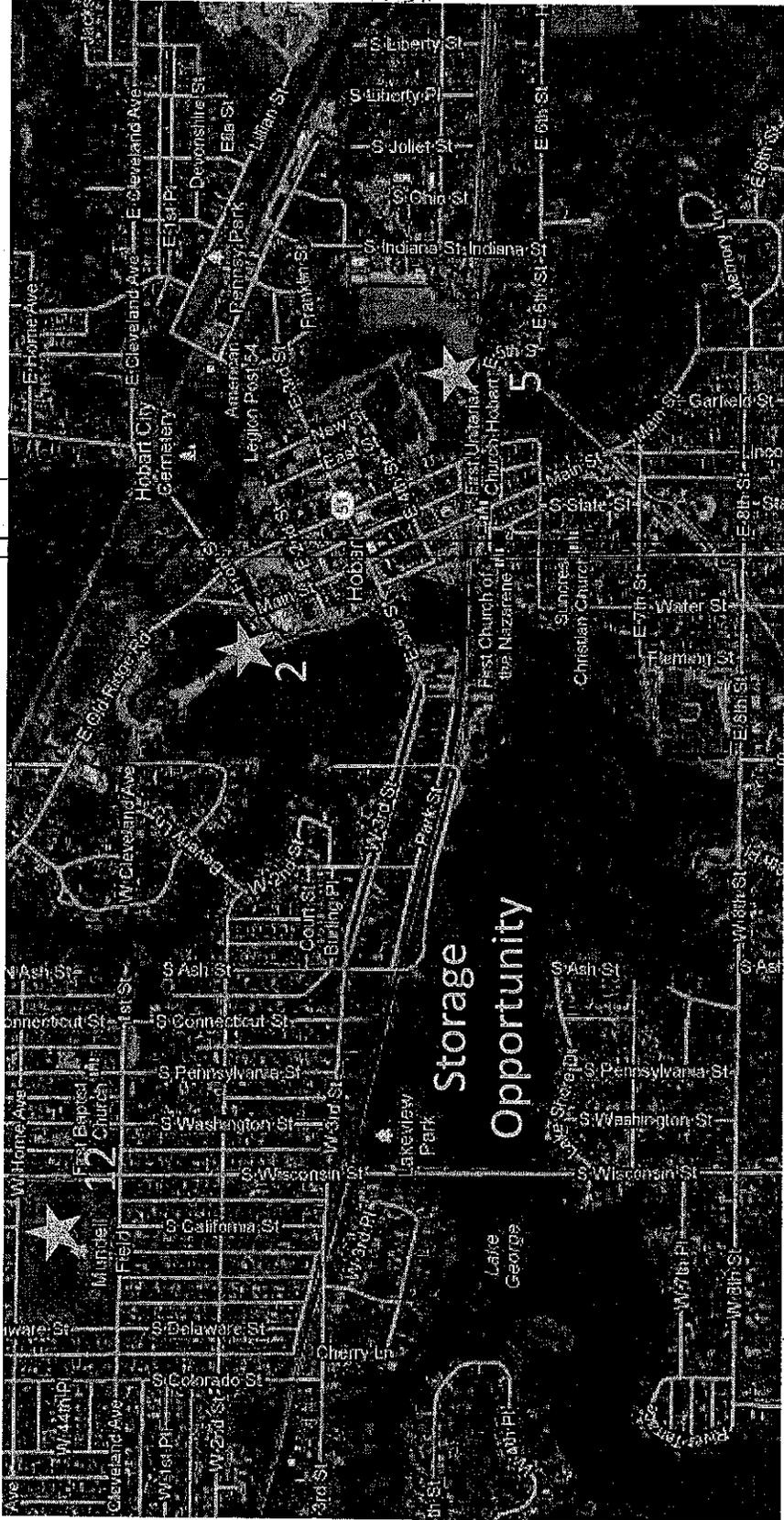
Attachment A
Little Calumet River Comprehensive Watershed Plan
Attachment to Meeting Minutes for the March 13, 2013 Meeting with Technical Staff (City of Hobart)



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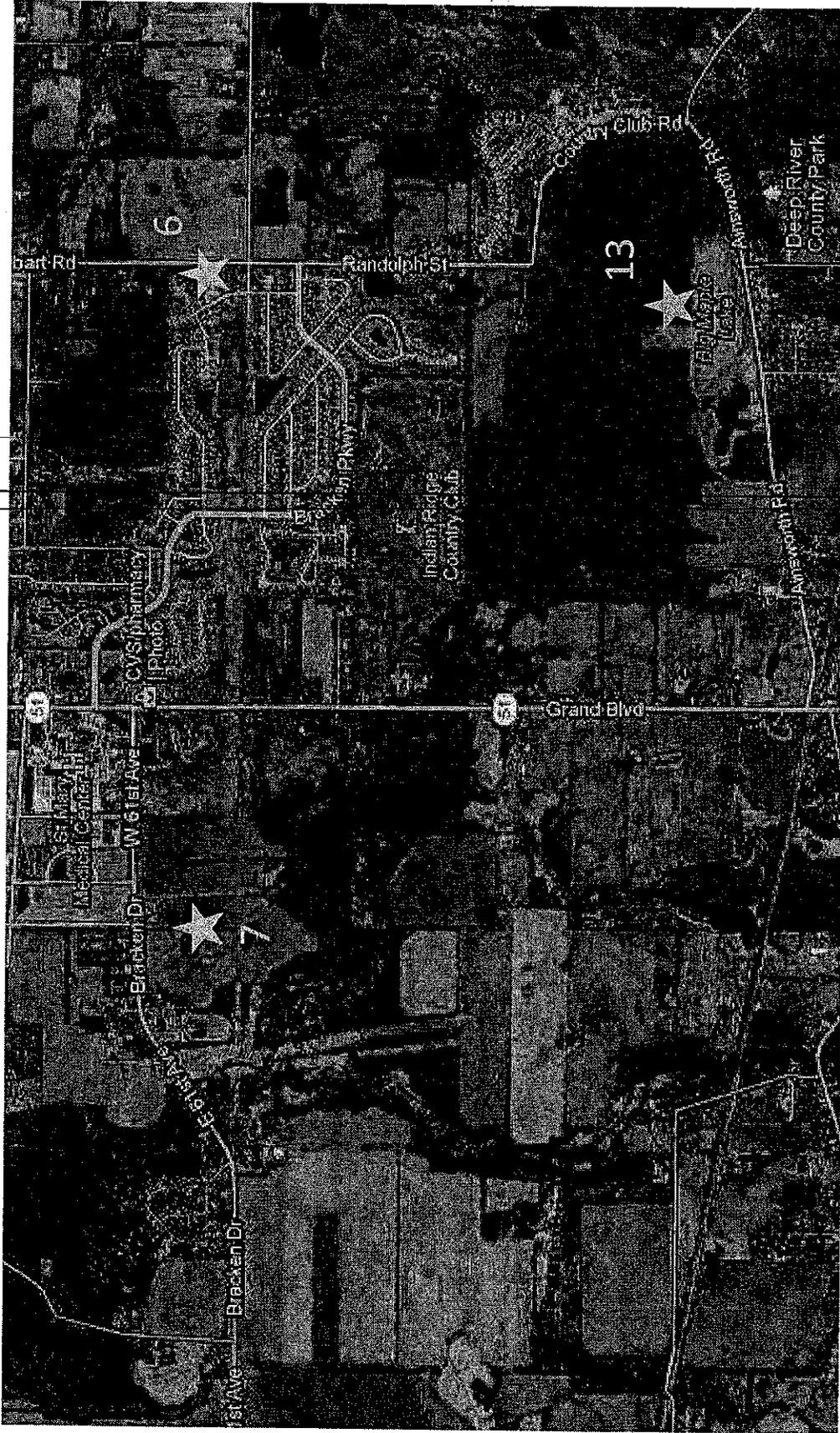
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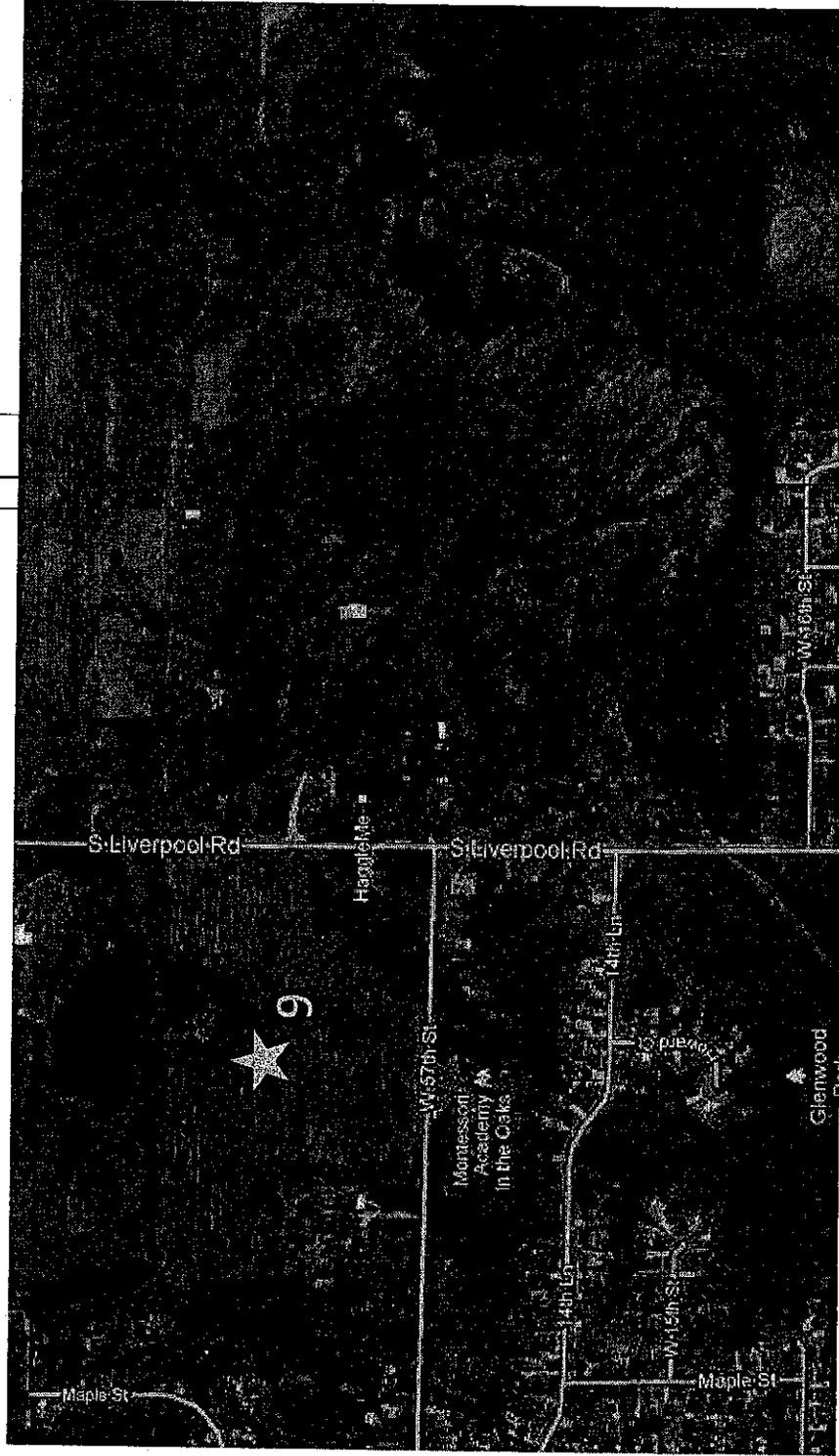
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Attachment 2

City of Hobart

STINKY CREEK AND TURKEY CREEK LATERAL 6 DIVERSION AND REGIONAL STORM WATER PROJECT

Project Description and Purpose

The Stinky Creek and Turkey Creek Lateral 6 Bypass Storm Sewer Project is designed to reduce flooding in residential areas and along Deep River within the Stinky Creek Watershed and at the headwaters of Turkey Creek Lateral 6. This infrastructure improvement project consists of two large diameter trunk lines to be constructed in order to alleviate flooding concerns in the area south of 37th Avenue, West of Wisconsin street and East of Liverpool Road. Lateral connector sewers will be installed in order to direct storm water to the large trunk lines more efficiently. A small detention facility will be constructed north of Earle Elementary School to provide some amount of storage. These storm sewers will also provide a connection point for future storm sewer projects in Hobart, Lake Station, and New Chicago. The Storm sewers will be designed to reduce flows in Deep River by bypassing over 5 miles from the current flow path of the Stinky Creek and Turk Creek Watersheds. The Turkey Creek Lateral 6 project will divert storm water from the headwaters, bypassing much more of Turkey Creek and Deep River including Lake George.



Attachment 3

CITY OF HOBART
STINKY CREEK AND TURKEY CREEK LATERAL 6 DIVERSION AND REGIONAL
STORM WATER PROJECT
18-1612

Preliminary Cost Opinion Summary
 March 12, 2021

| | <u>Construction Costs</u> | <u>Engineering</u> | <u>Construction Inspection</u> | <u>Total</u> |
|---|---------------------------|--------------------|--------------------------------|---------------|
| <u>Comprehensive Study Phase</u> | | \$ 130,000 | | |
| <u>East Phase - Stinky Creek Relocation</u> | | | | |
| East Side 72" Trunk Line Sewer - Alternate 3 | \$ 7,067,310 | \$ 494,710 | \$ 353,370 | \$ 7,915,390 |
| <u>West Phase - Turkey Creek Lateral 6 Extension</u> | | | | |
| West Side 72" Trunk Line Sewer - Alternate B | \$ 5,127,800 | \$ 358,950 | \$ 256,390 | \$ 5,743,140 |
| <u>Combined Project Costs</u> | | | | |
| 72" East Trunk line & 72" West Side Sewer to Turkey Creek | \$ 12,195,110 | \$ 983,660 | \$ 609,760 | \$ 13,788,530 |

CITY OF HOBART
STINKY CREEK AND TURKEY CREEK LATERAL 6 DIVERSION AND REGIONAL
STORM WATER PROJECT

Stinky Creek Relocation

PROPOSED 72" RCP EAST SIDE STORM SEWER

March 12, 2021

| <i>Description</i> | <i>Spec No</i> | <i>Quantity</i> | <i>Unit</i> | <i>Unit Price</i> | <i>Cost</i> |
|--|----------------|------------------|----------------|---------------------|---------------------------|
| 1. Construction Engineering | | 1 | LS | 1.5% | \$104,440 |
| 2. Mobilization/Demobilization | | 1 | LS | 5.0% | \$312,520 |
| 3. Maintenance of Traffic | | 1 | LS | \$45,000.00 | \$45,000 |
| 4. Erosion Control | | 1 | LS | \$50,000.00 | \$50,000 |
| 5. Clearing and Grubbing | | 1 | LS | \$75,000.00 | \$75,000 |
| 6. Common Excavation | | 25,000 | CYS | \$25.00 | \$625,000 |
| 7. Steel Casing Pipe - Bore and Jack | | 110 | LFT | \$1,500.00 | \$165,000 |
| 8. 72" HOBAS - Carrier Pipe | | 110 | LFT | \$650.00 | \$71,500 |
| 9. 72" RCP Storm Pipe | | 5,020 | LFT | \$315.00 | \$1,581,300 |
| 10. 60" Branch Sewer | | 1,870 | LFT | \$250.00 | \$467,500 |
| 11. 48" Branch Sewer | | 825 | LFT | \$150.00 | \$123,750 |
| 12. 15" Storm Sewer | | 510 | LFT | \$40.00 | \$20,400 |
| 13. 12" Storm Sewer | | 420 | LFT | \$30.00 | \$12,600 |
| 14. Under Drain System | | 5,020 | LFT | \$25.00 | \$125,500 |
| 15. 60"-72" Manholes | | 6 | EA | \$1,200.00 | \$7,200 |
| 16. Catch Basin | | 17 | EA | \$3,200.00 | \$54,400 |
| 17. Inlets | | 14 | EA | \$2,500.00 | \$35,000 |
| 18. Bore and Jack Sending pit | | 1 | LS | \$50,000.00 | \$50,000 |
| 19. Bore and Jack Receiving pit | | 1 | LS | \$35,000.00 | \$35,000 |
| 20. 45° Bend | | 1 | EA | \$12,000.00 | \$12,000 |
| 21. Manhole, Tee | | 7 | EA | \$15,000.00 | \$105,000 |
| 22. Manhole, 12' x 6' | | 3 | EA | \$30,000.00 | \$90,000 |
| 23. Manhole, 12' Square | | 5 | EA | \$35,000.00 | \$175,000 |
| 24. Outlet Structure | | 1 | EA | \$45,000.00 | \$45,000 |
| 25. Inlet Structure | | 1 | EA | \$65,000.00 | \$65,000 |
| 26. Structural Backfill | | 16,000 | CYS | \$25.00 | \$400,000 |
| 27. Ditch Excavation | | 3,000 | CYS | \$25.00 | \$75,000 |
| 28. Ditch Armoring | | 2,200 | Ton | \$100.00 | \$220,000 |
| 29. Ditch Restoration | | 1 | LS | \$35,000.00 | \$35,000 |
| 30. Dewatering | | 1 | LS | \$626,500.00 | \$626,500 |
| 31. HMA Pavement, Surface | | 653 | TON | \$80.00 | \$52,265 |
| 32. HMA Pavement, Intern. | | 1,089 | TON | \$75.00 | \$81,665 |
| 33. HMA Pavement, Base | | 3,049 | TON | \$65.00 | \$198,173 |
| 34. Curb and Gutter, Concrete | | 2,300 | LFT | \$22.00 | \$50,600 |
| 35. Surface Restoration | | 1 | LS | \$100,000.00 | \$100,000 |
| 36. Utility Relocation (Allotment) | | 1 | LS | \$250,000.00 | \$250,000 |
| 37. Railroad Soil Stabilization / Grouting | | 1 | LS | \$125,000.00 | \$125,000 |
| 38. Detention Basin | | 1 | LS | \$400,000.00 | \$400,000 |
| Subtotal: | | | | | \$7,067,310 |
| <i>Engineering</i> | | | | 7.0% | \$494,710 |
| <i>Construction Administration</i> | | | | 5.0% | \$353,370 |
| TOTAL: | | | | | <u>\$7,915,390</u> |

Attachment 4

Impacts of Storm Water Diversion and Regional Drainage Improvement Project

- 710 acres in watershed
- Over 850 homes in primarily low to moderate income area of Cressmoor / Villa Shores Study Area.
- Benefits New Chicago and Lake Station with a trunk storm sewer as a potential discharge location for future drainage projects.
- 67 homes have had documented flooding cases
- 34 Locations of Street Flooding
- Monitored ground water elevations between 1' to 4' below ground surface in three monitoring wells from April 2020 through April 2021.
- Cressmoor trunk sewer will divert 33.1 million gallons of water to Deep River during a 100 year rain event, reducing travel distance by 27,000 feet or 5.1 miles.
- Western trunk sewer to Turkey Creek Lateral 6 headwaters will remove 220 acres from watershed and divert 51.6 million gallons of storm water to Deep River during a 100 year rain event, reducing travel distance to Deep River by 19.4 miles.
- The storm water volume diverted from Lake George is equivalent to nearly 1' of flood elevation on the reservoir.

Turkey Creek Lateral 6 - Alternative 2
 Separate Relief Sewer from Cressmoor Subdivision
 Summary of Diverted Volumes

Turkey Creek Lateral 6

| Deep River Outlet | | Diverted Volume (acre-feet) | | |
|--|--|-----------------------------|----------------------|-----------------------|
| Existing | Proposed | 10-Year ¹ | 50-Year ² | 100-Year ² |
| Confluence with Turkey Creek River Station 53,000 ¹ BFE = 612.8 | New 72" Outlet near River Forest HS River Station 4,500 ¹ BFE = 597.8 | 62.4 | 126.2 | 158.5 |

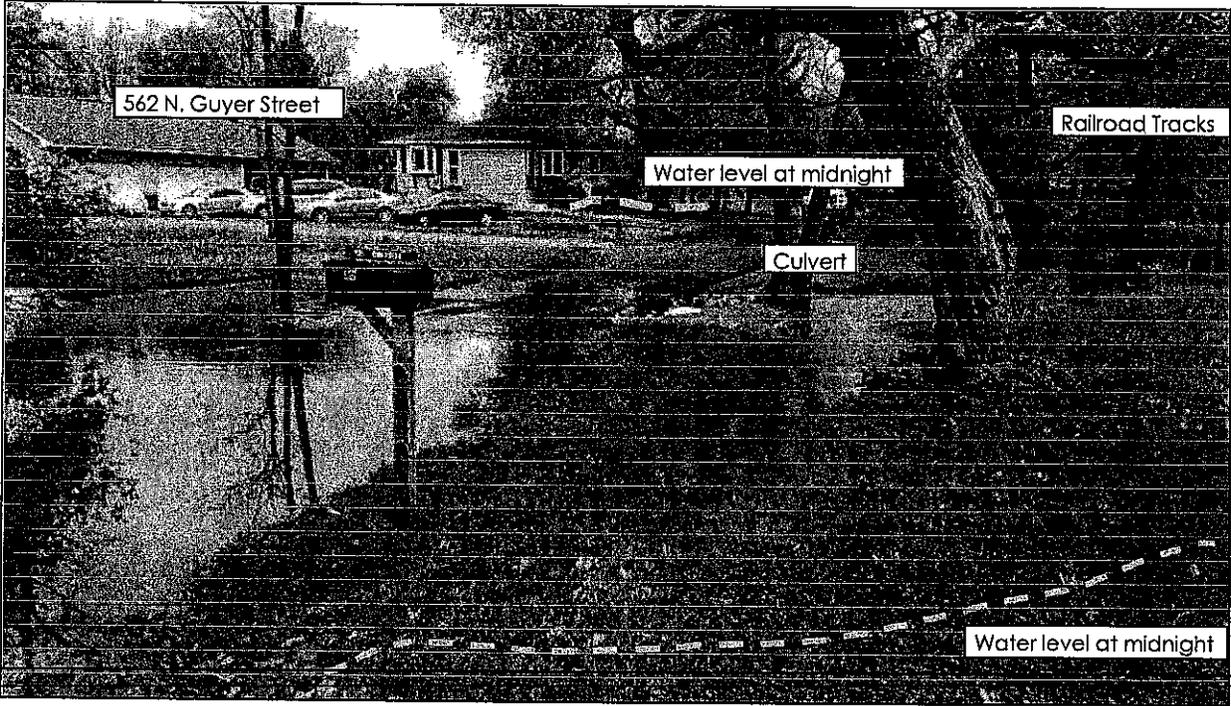
Stinky Creek

| Deep River Outlet | | Diverted Volume (acre-feet) | | |
|---|--|-----------------------------|----------------------|-----------------------|
| Existing | Proposed | 10-Year ¹ | 50-Year ² | 100-Year ² |
| Unnamed Tributary Along 37th Avenue River Station 31,500 ¹ BFE = 602.8 | New 72" Outlet near River Forest HS River Station 4,500 ¹ BFE = 597.8 | 43.5 | 80.9 | 101.6 |

Total Diverted Volume = **105.9 207.1 260.1**

¹River station measured in feet above confluence with Burns Ditch
²Diverted volume for critical duration storm event

Diverted Volumes (CBBEL)

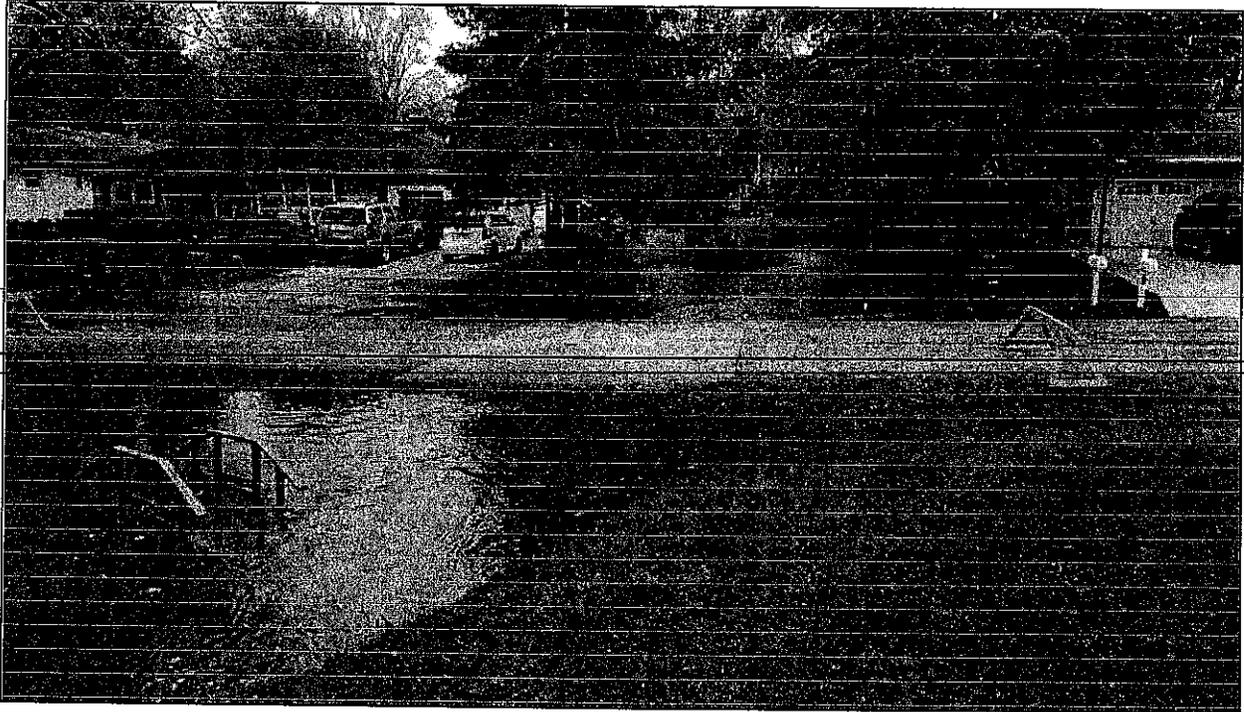


**Figure 5: Image 1 – Looking north on Guyer Street towards the railroad tracks
Time: 10:33 am, May 18, 2020**

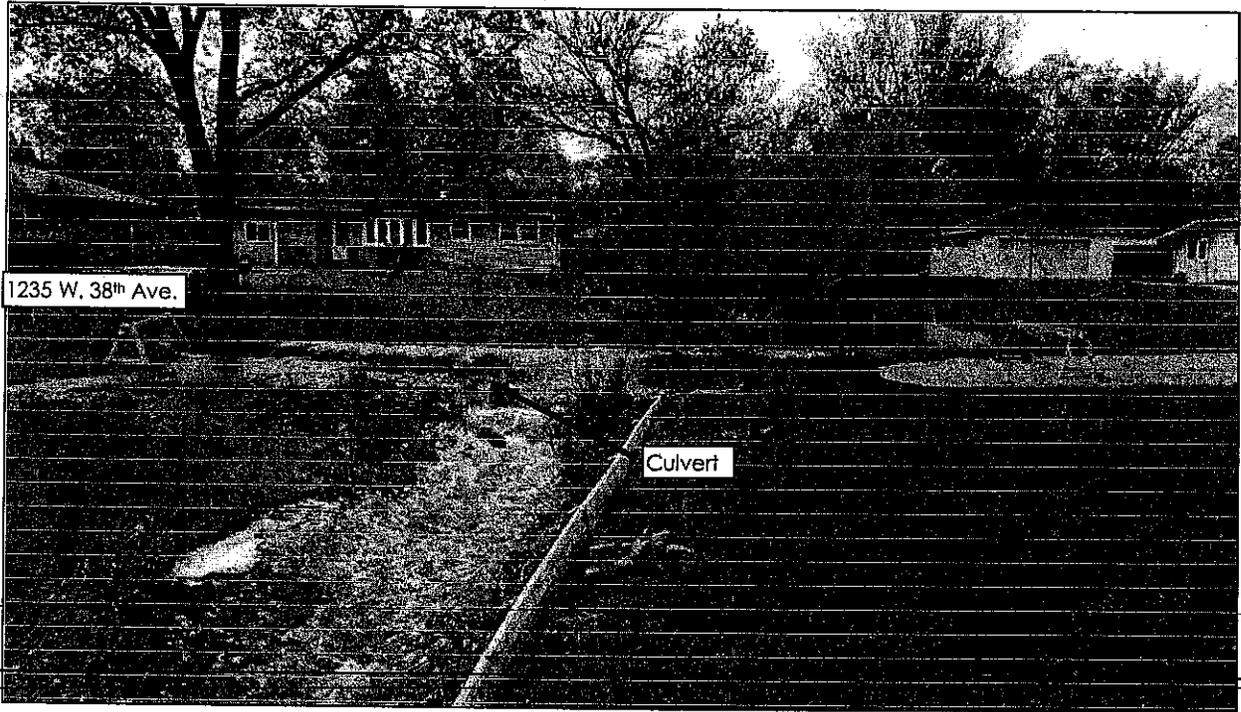


**Figure 6: Image 2 - Looking south on Guyer Street from 562 N Guyer St.
Time: 10:34 am, May 18, 2020**

Images 1 and 2 show that runoff flowing toward the railroad tracks is restricted by the road and the 48-in culvert. At the time the photo was taken, water was overtopping the road at a depth of approximately 3-in. According to conversations with the residents at 560 N Guyer Street, at approximately midnight the night before, runoff was at the bottom of the concrete stairs going up to the home's front door (approximately 2-ft. of additional depth). Additionally, at midnight all green space southwest and east of the home was completely submerged.



**Figure 7: Image 3 – Looking north across 38th Place from 1305 W. 38th Place
Time: 11:12 am, May 18, 2020**



**Figure 8: Image 4 – Looking south across 38th Ave. from 1300 W. 38th Ave.
Time: 11:18 am, May 18, 2020**



**Figure 9: Image 5 – Looking southeast along 38th Ave from 1300 W. 38th Ave.
Time: 11:17 am, May 18, 2020**

Life Cycle Cost Analysis
City of Hobart Stormwater Board
Cressmoor Storm Infrastructure Improvement Project
 ACI Project No.: 18-1612 Date: 5/03/2021

Project Benefits:

Current number of properties within the 100-yr inundation Area:

| | Number* | | Average Value per property | Projected Benefit |
|-------------------------------|---------|---|-------------------------------|---------------------|
| Residential: | 21 | x | \$200,000 | \$4,200,000 |
| Residential, partial benefit: | 750 | x | \$10,000 | \$7,500,000 |
| Commercial: | 6 | x | \$500,000 | \$3,000,000 |
| Municipal: | 3 | x | \$250,000 | \$750,000 |
| Roadways: | 34 | x | \$125,000 | \$4,250,000 |
| | | | Sub Total = | \$19,700,000 |

*See Exhibit C-1 for Inundation Map

| | |
|---|--------------------|
| Anticipated Benefit to Lake Station = | \$1,000,000 |
| Anticipated Benefit to New Chicago = | \$500,000 |
| Anticipated Benefit to Merrillville = | \$1,750,000 |
| Benefit to residents outside of Inudation Zone† = | \$3,500,000 |
| Sub Total = | \$6,750,000 |

†Residents outside of the Inudation Zone will see increase in property values do to reduction in basement or yard flooding issues

Projected 20-yr Project Benefit: \$26,450,000

Water Quality

This project will add a detention pond adjacent to the Earle Elementary School which will not only provide volume for storage during heavy rain events, but also will allow for additional filtration of storm water as well as infiltration into the groundwater system.

Wildlife Habitat

The detention pond referenced above will also allow for native grasses, trees and shrubs to take hold in an alluvial setting. Once plant life has been established the fauna in the area will move in to use as nest and feeding grounds. This site is adjacent to a Shirley Heize Land Trust which will work great in tandem to provide a better area for the wildlife community.

Life Cycle Cost Analysis
City of Hobart Stormwater Board
Cressmoor Storm Infrastructure Improvement Project
 ACI Project No.: 18-1612 Date: 5/03/2021

Project Costs:

Present Day Construction Cost: \$12,195,110

Years 1 through 5 Operation and Maintenance:

| | | |
|-------------------------------|----------|----------|
| Manhole & Pipe Flushing: | \$15,000 | |
| Stream Bank Maintenance: | \$20,000 | |
| Vegetation Clearing: | \$10,000 | |
| Years 1 through 5 Sub Total = | | \$45,000 |

Years 6 through 10 Operation and Maintenance:

| | | |
|--------------------------------|----------|----------|
| Manhole & Pipe Flushing: | \$15,000 | |
| Stream Bank Maintenance: | \$30,000 | |
| Vegetation Clearing: | \$15,000 | |
| Years 6 through 10 Sub Total = | | \$60,000 |

Years 11 through 15 Operation and Maintenance:

| | | |
|---------------------------------|----------|----------|
| Manhole & Pipe Flushing: | \$15,000 | |
| Stream Bank Maintenance: | \$35,000 | |
| Vegetation Clearing: | \$20,000 | |
| Minor Concrete Patching: | \$10,000 | |
| Casting Adjustments: | \$5,000 | |
| Years 11 through 15 Sub Total = | | \$85,000 |

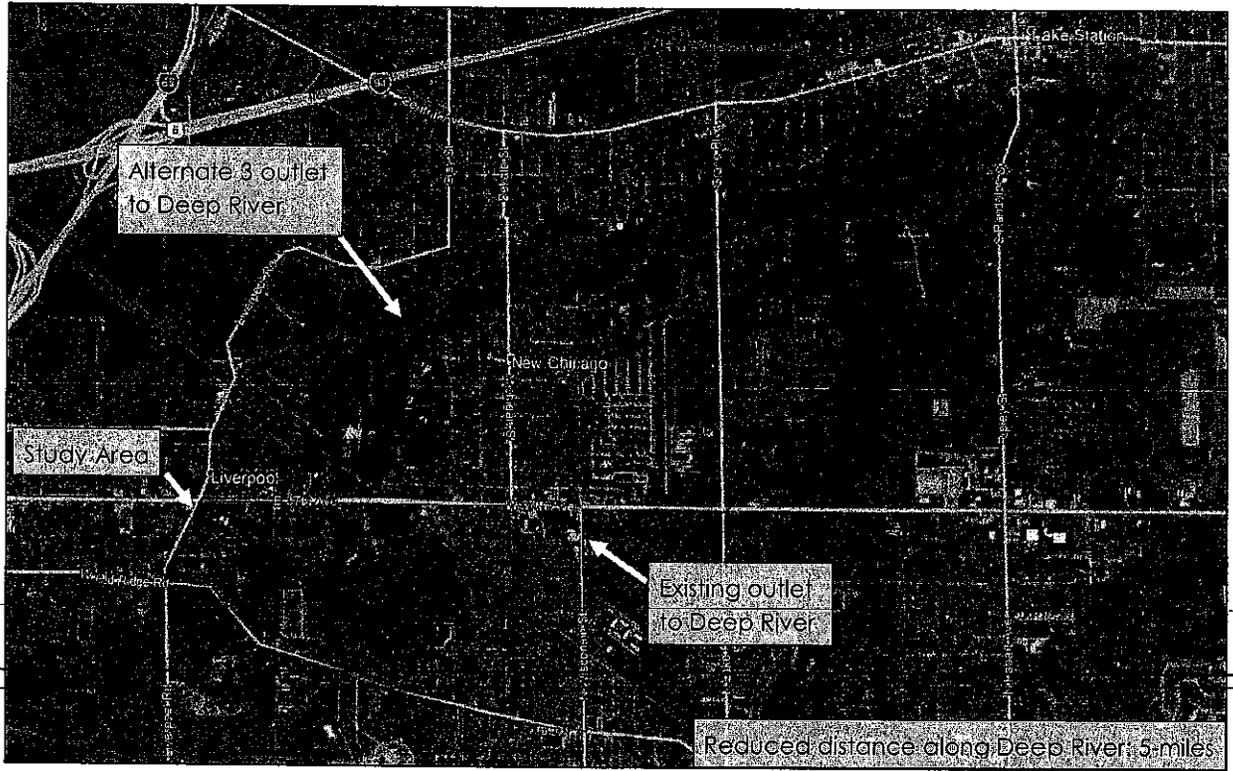
Years 11 through 15 Operation and Maintenance:

| | | |
|---------------------------------|----------|-----------|
| Manhole & Pipe Flushing: | \$15,000 | |
| Stream Bank Maintenance: | \$40,000 | |
| Vegetation Clearing: | \$25,000 | |
| Minor Concrete Patching: | \$12,500 | |
| Casting Adjustments: | \$7,500 | |
| Years 11 through 15 Sub Total = | | \$100,000 |

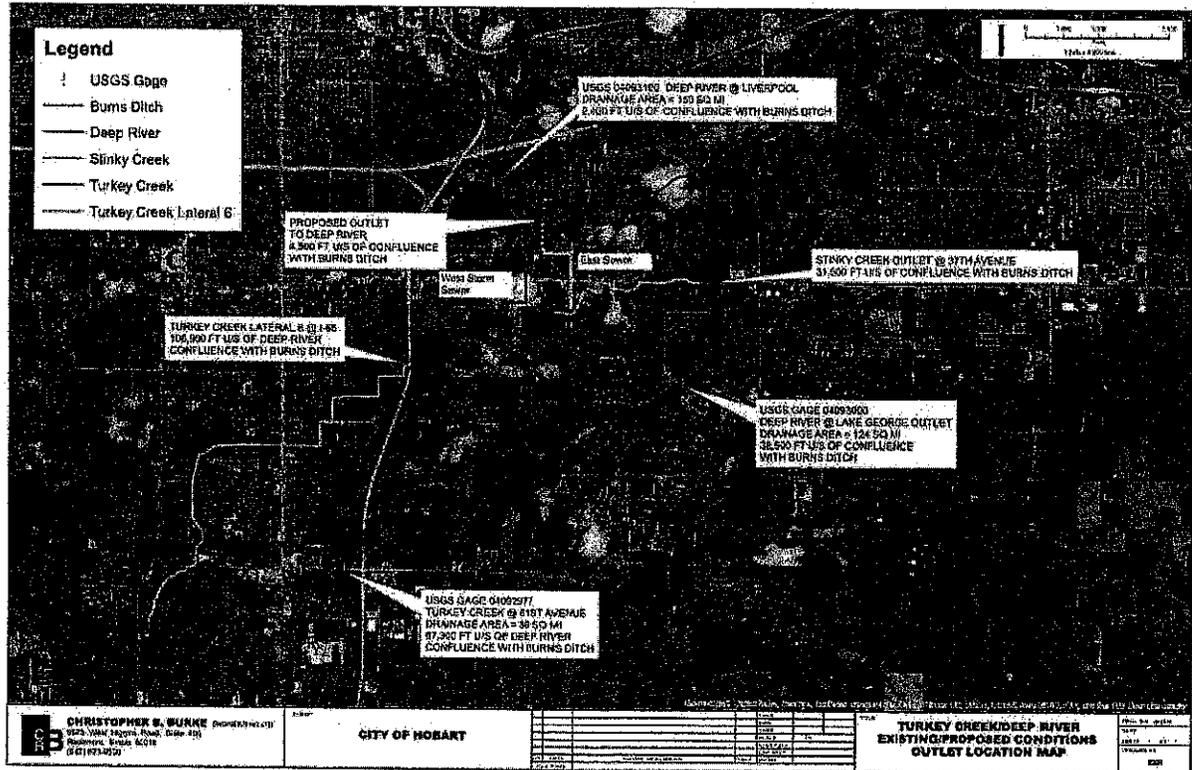
Projected 20-yr Project Construction Cost: \$12,485,110

Note: The pipe and manhole system is anticipated to have a design life of 75-years. Therefore on-going maintenance will be minimal and is only expected to be pipe flushing or Vac Truck Maintenance, with the potential for minor concrete patching and/or casting adjustments beginning 10 years following construction.

Attachment 5



Deep River Travel Time Comparison



Alternate B Stream Gage Comparison (CBBEL)

Cressmoor / Villa Shores Trunk Storm Sewer • City of Hobart, Indiana

Exhibit C-1: Inundation Map



Legend

- April 2019 Inundation Area
- 100-Year Inundation Area
- Lake County 1' Contours

| | | |
|--|---------------------------------|---------------------------------|
| <p>CLIENT CITY OF HOBART</p> <p>PROJECT CRESSMOOR/VILLAGE SHORES STORMWATER STUDY - EXISTING CONDITIONS INUNDATION MAP</p> | <p>DATE 11/14/19</p> | <p>DATE 11/14/19</p> |
| | <p>NO. 180484</p> | <p>SCALE N.T.S.</p> |

ARONMARCHE
1325 State Lane, Park Ave
Hobart, CT 06032
(860) 347-2589

CB
Christopher B. Burke Engineering, LLC
One Professional Center, Suite 314
Crown Point, IN 46307
(317) 883-3470 / FAX (317) 883-3459

Attachment 6

This section has been included as a placeholder and will be populated as agreements are made and information is determined.

RESOLUTION NUMBER 2021-08
OF THE LITTLE CALUMET RIVER
BASIN DEVELOPMENT COMMISSION

WHEREAS, the Little Calumet River Basin Development Commission (hereinafter the "Commission") is a public body corporate duly organized, created, and existing under the laws of the State of Indiana by virtue of Indiana Code I.C. 14-13-2-2 et seq; and

WHEREAS, the Commission was created pursuant to I.C. 14-13-2-4, inter alia, to provide for the creation, development, maintenance, administration, and operation of park, recreation, marina, flood control, and other public works projects; and

WHEREAS, pursuant to I.C. 14-13-2-1 et seq, the Commission is entitled to enter into certain agreements with other public agencies; and

WHEREAS, I.C. 36-1-7-1 et seq allows public agencies to enter into agreements to exchange services, supplies and equipment, and provide mutual aid; and

WHEREAS, consistent with the foregoing statutes, it is the intent of the Commission to enter into an Interlocal Cooperation Agreement with the City of Hobart to authorize and allow the carrying out of the Stinky Creek portion of the Project known as the Stinky Creek and Turkey Creek Lateral 6 and Diversion and Regional Storm Water Project.

NOW, THEREFORE, BE IT RESOLVED THAT the Commission authorizes its Chairman, Secretary, and/or Executive Director to execute that certain Interlocal Cooperation Agreement between the City of Hobart and the Commission, allowing the Commission to assist the City of Hobart in carrying out the Stinky Creek portion of the Project known as the Stinky Creek and Turkey Creek Lateral 6 and Diversion and Regional Storm Water Project, which Interlocal Cooperation Agreement is attached hereto, made a part hereof, and is in the following words and figures, to-wit: (Here Insert); and

BE IT FURTHER RESOLVED THAT the Commission shall pay a maximum not to exceed contribution of Four Hundred and Fifty Thousand Dollars (\$450,000.00); and

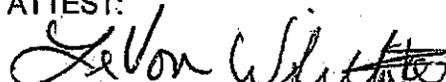
BE IT FURTHER RESOLVED THAT the above prefatory ("WHEREAS") paragraphs are incorporated herein as if more fully set forth herein.

Duly adopted this 20 day of October, 2021.

LITTLE CALUMET RIVER BASIN
DEVELOPMENT COMMISSION


By: William Baker, Chairman

ATTEST:


Levon Whittaker, Secretary