



SURVEYOR'S OFFICE  
**Hamilton County**

*Kenton C. Ward, CFM*  
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One Hamilton County Square  
Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

June 9, 2021

Re: Canal Place Drain, Strongbow Gate Arm

Attached are plans for the reconstruction of the Strongbow Gate Arm of the Canal Place Drain. The proposal is designed to remedy the flooding which occurs on 104<sup>th</sup> Street and Strongbow Road/Crestmoor Lane.

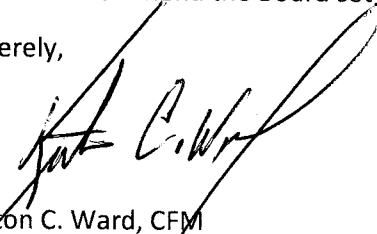
At it's April 27, 2020 meeting the Board approved funding for half of the study of the situation at the above referenced intersection. The study was done by DLZ which Fishers has retained on an on-call basis. The cost was \$9,200.00 of which \$4,600.00 was paid through the Canal Place Drainage Fund. The City of Fishers paid \$19,700.00 for the design of the needed reconstruction (see Hamilton County Drainage Board Minutes Book 19, page 203).

The study found the outlet for the north pond in Strongbow Gate was smaller than required. The proposed reconstruction consists of 77 feet of 30" RCP and 2 60" manholes. The existing 74 feet of 15" RCP will be taken out of service by removing 8 feet of RCP as it comes into the existing structure, removing and replacing the existing outlet structure at the pond and filling the remaining tile with flowable fill.

This work is reflected in the plans as prepared by DLZ dated May 26, 2021, DLZ Project Number 2063-5047-70. The cost estimate for this work is \$62,150.00. Currently the maintenance fund for the Canal Place Drain has a balance of \$137,535.25. I recommend that the construction cost be taken from the maintenance funds as allowed under IC 36-9-27-45.5.

I recommend the Board set a hearing for this matter for July 26, 2021.

Sincerely,

  
Kenton C. Ward, CFM  
Hamilton County Surveyor

KCW/llm

**Canal Place Drain, Strongbow Gate Arm**

Relocating 74' of 15" RCP of the 2005 Strongbow Gate reconstruction of Thomas West..

The 15" RCP will be out of service and replaced by a 30" RCP to the northeast within the same variable width Drainage & Utility Easement.

The new drain consists of 77' of 30" RCP & two 60" manholes.

\*Cost of relocation/reconstruction to be paid from Canal Place maintenance fund.

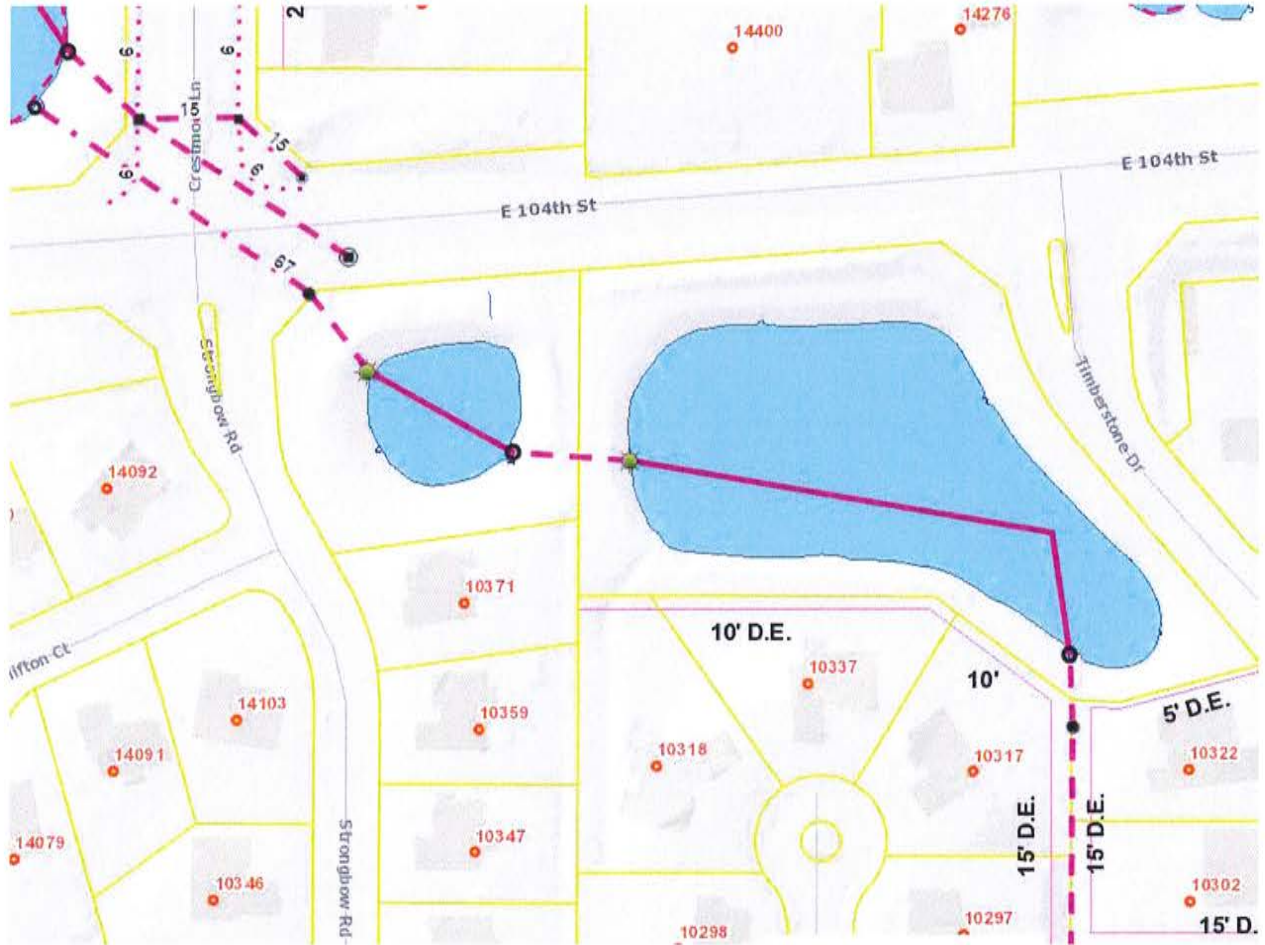
\*No change in current maintenance assessment.

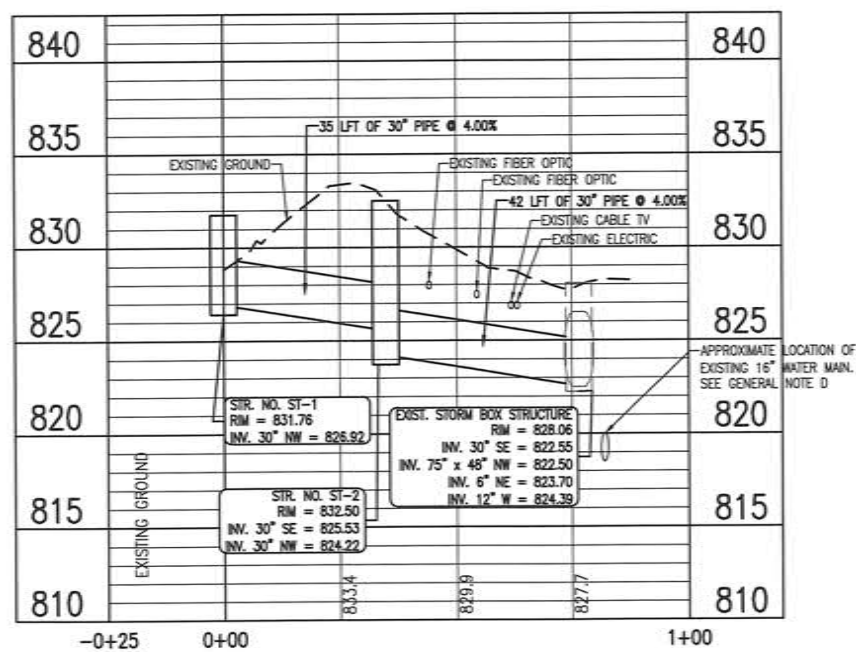
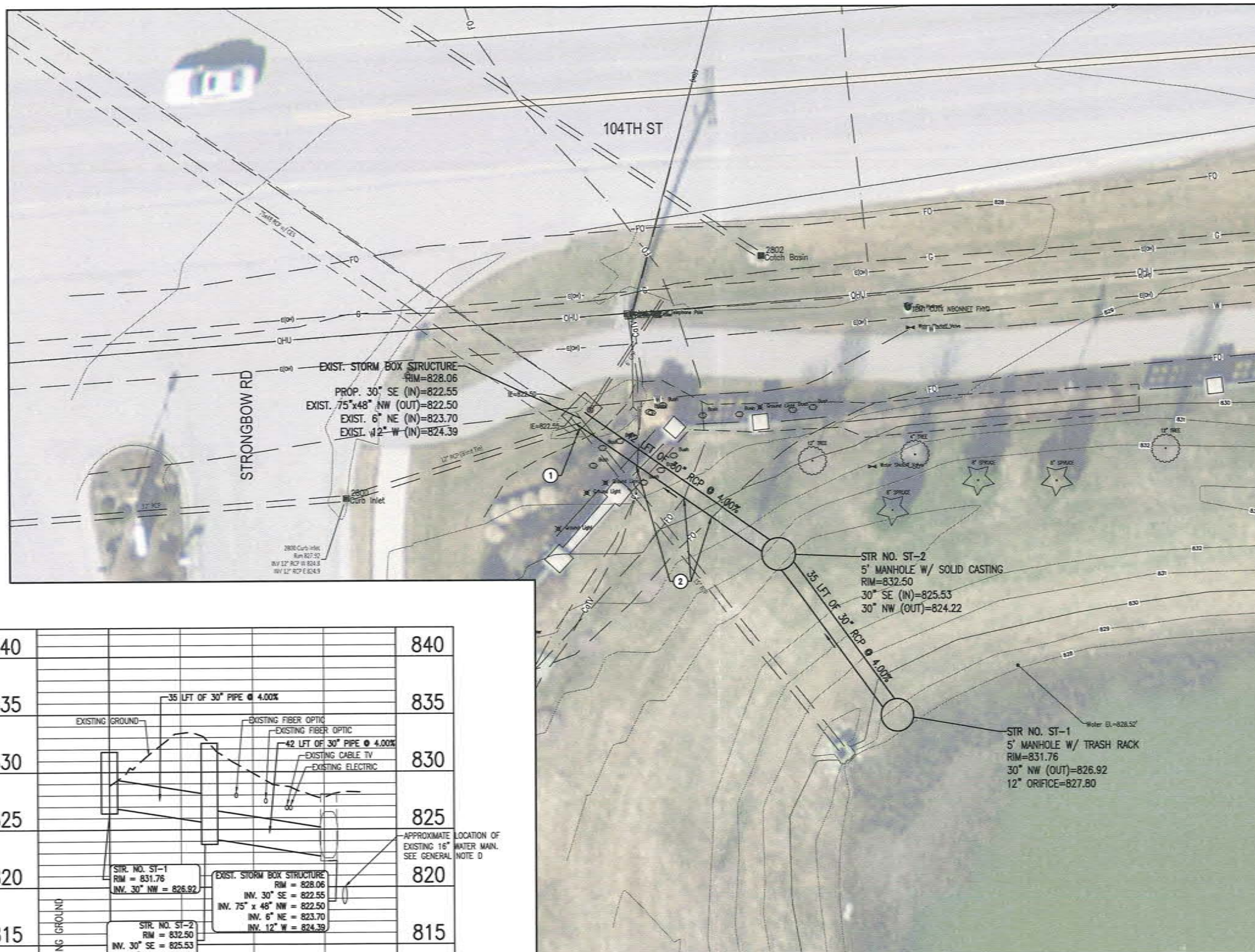
Hearing: 07/26/21

Parcel	Owner	Description	Benefit	MntAsmt	RecAsmt	of Total
99-99-99-99-999.007	City of Fishers	S12 T17 R5 104th & Crestmoor Ln	*	*	*	50.00
13-15-12-00-08-025.000	Strongbow Gate Homeowners Assoc.	S12 T17 R5 Strongbow Gate Sec 1 CA A, 0.98Ac	*	*	*	50.00

13-15-12-00-08-025.000, Strongbow Gate HOA, 31 E. Main St #300, Carmel, IN 46032,  
S12 T17 R 5 Strongbow Gate Sec 1, CA A, 0.98 Ac

99-99-99-99-999.007, City of Fishers,  
S12 T17 R5 104<sup>th</sup> St.





**STORM SEWER PROFILE**  
 SCALE: 1" = 20' HORIZ., 1" = 5' VERT.

**STORM SEWER PLAN**  
 SCALE: 1" = 10'

**GENERAL NOTES**

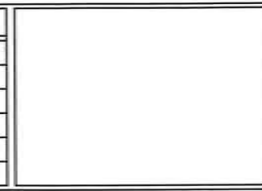
- A. UTILITIES SHOWN ARE APPROXIMATE. FIELD VERIFY PRIOR TO CONSTRUCTION. ANY CONFLICTS BETWEEN THE IMPROVEMENTS AND EXISTING UTILITIES ARE TO BE BROUGHT FORTH TO THE ENGINEER FOR RESOLUTION DURING CONSTRUCTION LAYOUT.
- B. THE CONTRACTOR SHALL REMOVE BY PUMPING OR OTHER SUITABLE METHODS ANY WATER WHICH MAY ACCUMULATE IN TRENCHES. DEMATERING FOR THE PURPOSES OF PIPE INSTALLATION SHALL BE INCLUDED IN THE COST OF OTHER ITEMS.
- D. EXACT WATER MAIN LOCATION IS UNKNOWN. PER CITY OF FISHERS POT-Holing PERFORMED ON 3/9/21, MAGNETIC TAPE WAS FOUND AT A DEPTH OF 8 FEET TO 10 FEET BUT NO WATER MAIN PIPING WAS ENCOUNTERED. CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING NEAR THE ANTICIPATED LOCATION OF THE WATER MAIN.
- E. CONTRACTOR SHALL CONTACT ENGINEER IF UTILITIES TO REMAIN REQUIRE RELOCATION.

**KEY NOTES**

- 1 REMOVE EXISTING 15" PIPE AND WIDEN PIPE PENETRATION IN EXISTING STORM BOX STRUCTURE WALL AS NECESSARY TO ACCOMMODATE PROPOSED PIPING
- 2 SUPPORT EXISTING UTILITIES AS NECESSARY TO INSTALL PROPOSED STORM SEWER.



REVISIONS		
DATE	REVISION	BY

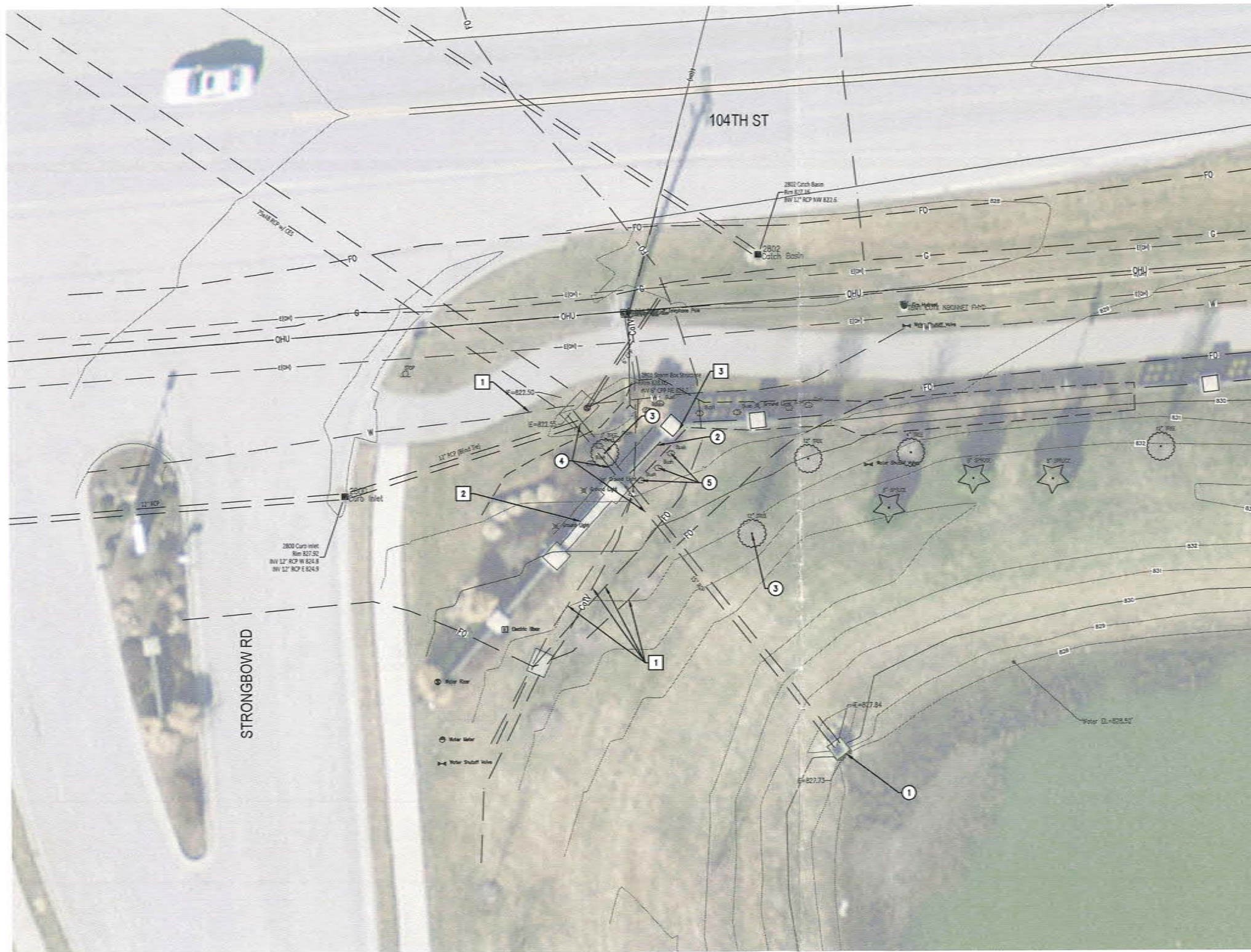


**HAMILTON COUNTY DRAINAGE IMPROVEMENTS**

DESIGNED: MSM		DRAWN: BTM	
CHECKED: BAD		CHECKED: BAD	

**HAMILTON COUNTY**  
 PLAN AND PROFILE

DLZ PROJECT NO. 2063-5047-70
SHEET <b>C4.0</b>
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**GENERAL NOTES**

- A. UTILITIES SHOWN ARE APPROXIMATE, FIELD VERIFY PRIOR TO CONSTRUCTION. ANY CONFLICTS BETWEEN THE IMPROVEMENTS AND EXISTING UTILITIES ARE TO BE BROUGHT FORTH TO THE ENGINEER FOR RESOLUTION DURING CONSTRUCTION LAYOUT.
- B. THE CONTRACTOR SHALL REMOVE BY PUMPING OR OTHER SUITABLE METHODS ANY WATER WHICH MAY ACCUMULATE IN TRENCHES. Dewatering for the purposes of pipe installation shall be included in the cost of other items.
- C. CONTRACTOR SHALL MAINTAIN IN OPERATING CONDITION ALL ACTIVE UTILITIES, SEWERS, AND OTHER DRAINS ENCOUNTERED IN THE SEWER INSTALLATION. REPAIR TO THE SATISFACTION OF THE OWNER ANY DAMAGE TO EXISTING ACTIVE IMPROVEMENTS.
- D. EXACT WATER MAIN LOCATION IS UNKNOWN. PER CITY OF FISHERS POT-HOLING PERFORMED ON 3/9/21, MAGNETIC TAPE WAS FOUND AT A DEPTH OF 8 FEET TO 10 FEET BUT NO WATER MAIN PIPING WAS ENCOUNTERED. CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING NEAR THE ANTICIPATED LOCATION OF THE WATER MAIN.
- E. CONTRACTOR SHALL CONTACT ENGINEER IF UTILITIES TO REMAIN REQUIRE RELOCATION.
- F. TELETYPE EXISTING SEWER PRIOR TO FILLING WITH FLOWABLE FILL. CONTACT ENGINEER IF ADDITIONAL CONNECTIONS NOT SHOWN ON THE PLANS ARE PRESENT.

**REMOVAL KEY**

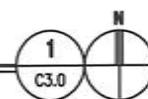
- 1 REMOVE EXISTING POND OUTLET RELEASE STRUCTURE
- 2 REMOVE EXISTING FENCE PANEL (TO BE REINSTALLED AFTER CONSTRUCTION IS COMPLETE)
- 3 REMOVE EXISTING TREE
- 4 REMOVE EXISTING PIPE FROM THE EXISTING STRUCTURE TO 8 LINEAR FEET. FILL REMAINING PIPE WITH FLOWABLE FILL AFTER THE NEW OUTFALL AND PIPE HAS BEEN INSTALLED.
- 5 REMOVE EXISTING BUSHES

**PROTECTION KEY**

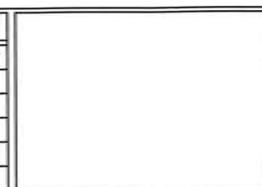
- 1 PROTECT EXISTING UTILITIES TO REMAIN
- 2 PROTECT EXISTING SIGN TO REMAIN
- 3 PROTECT EXISTING COLUMN TO REMAIN

**EXISTING CONDITIONS AND DEMOLITION PLAN**

SCALE: 1" = 10'



REVISIONS		
DATE	REVISION	BY



**HAMILTON COUNTY DRAINAGE IMPROVEMENTS**



DESIGNED: MSM		DRAWN: BTM	
CHECKED: BAD		CHECKED: BAD	

**HAMILTON COUNTY**

**EXISTING CONDITIONS AND DEMOLITION PLAN**

DLZ PROJECT NO. 2063-5047-70
SHEET
<b>C3.0</b>
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